

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
 Data File : BF087466.D
 Acq On : 28 May 2016 4:21
 Operator : UM/SJ
 Sample : H3190-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1711(0-4)

Manual Integrations
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Quant Time: May 28 05:30:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	110807	20.00	ng	-0.03
21) Naphthalene-d8	9.52	136	446628	20.00	ng	-0.03
38) Acenaphthene-d10	12.34	164	193865	20.00	ng	-0.05
63) Phenanthrene-d10	14.74	188	312218	20.00	ng	-0.03
75) Chrysene-d12	18.46	240	227782	20.00	ng	-0.02
86) Perylene-d12	20.13	264	196935	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	1024069	162.39	ng	-0.02
7) Phenol-d6	7.05	99	1424405	167.17	ng	-0.02
23) Nitrobenzene-d5	8.40	82	934727	105.48	ng	-0.05
41) 2,4,6-Tribromophenol	13.65	330	247215	132.70	ng	-0.03
44) 2-Fluorobiphenyl	11.30	172	1449801	105.43	ng	-0.03
78) Terphenyl-d14	17.11	244	966048	90.17	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	9.55	128	139393	6.23	ng	99
37) 2-Methylnaphthalene	10.67	142	104779m	7.49	ng	
48) Acenaphthylene	12.11	152	355011	17.96	ng	99
49) Dimethylphthalate	11.99	163	225296	14.51	ng	99
54) Dibenzofuran	12.68	168	49934	3.04	ng	92
70) Phenanthrene	14.78	178	335255	19.39	ng	99
71) Anthracene	14.87	178	332500	19.03	ng	99
72) Carbazole	15.17	167	134934	9.06	ng	98
74) Fluoranthene	16.56	202	1831872	105.63	ng	95
77) Pyrene	16.86	202	1854019	113.08	ng	97
80) Benzo(a)anthracene	18.45	228	843677m	65.12	ng	
82) Chrysene	18.49	228	956836m	74.41	ng	
85) Indeno(1,2,3-cd)pyrene	21.35	276	414252	40.19	ng	# 87
87) Benzo(b)fluoranthene	19.73	252	1282309m	102.22	ng	
88) Benzo(k)fluoranthene	19.74	252	506023m	46.86	ng	
89) Benzo(a)pyrene	20.07	252	648830	59.80	ng	# 94
90) Dibenzo(a,h)anthracene	21.35	278	113454m	12.26	ng	
91) Benzo(g,h,i)perylene	21.70	276	339839	37.22	ng	# 93

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

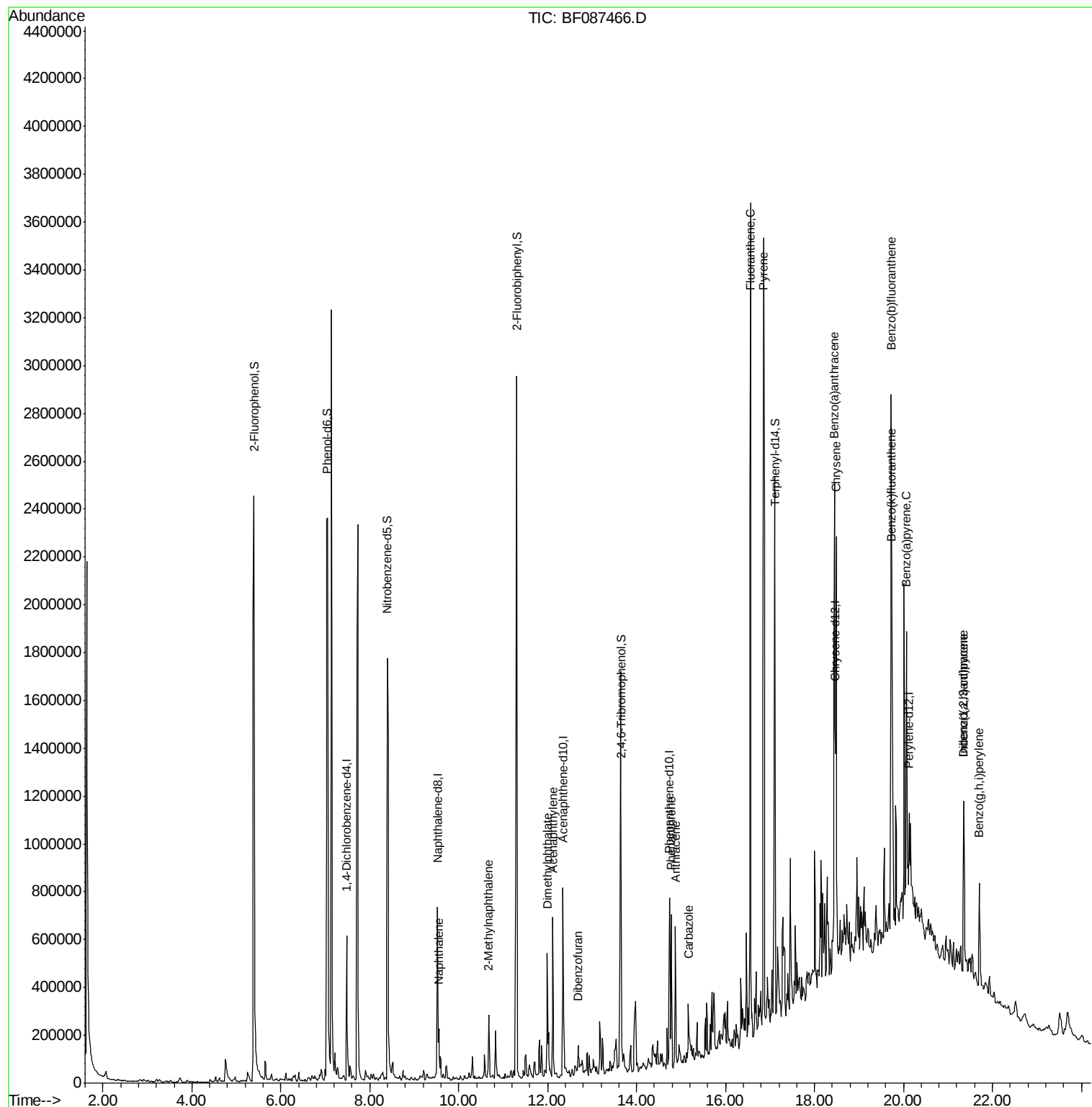
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\
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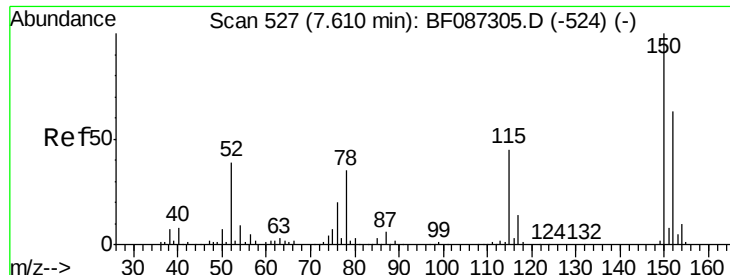
Instrument :
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ClientSampleId :
CHS-STA-1711(0-4)

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.48 min Scan# 516

Delta R.T. -0.03 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion:152 Resp: 110807

Ion Ratio Lower Upper

152 100

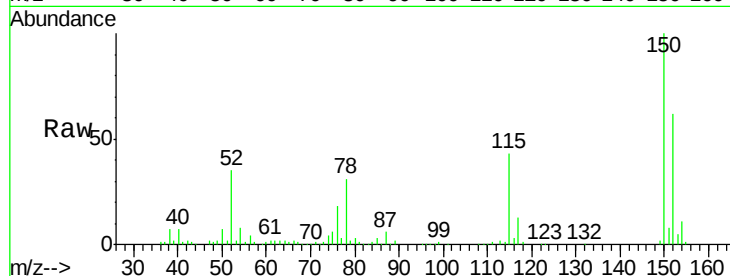
150 160.3 125.8 188.6

115 68.9 51.5 77.3

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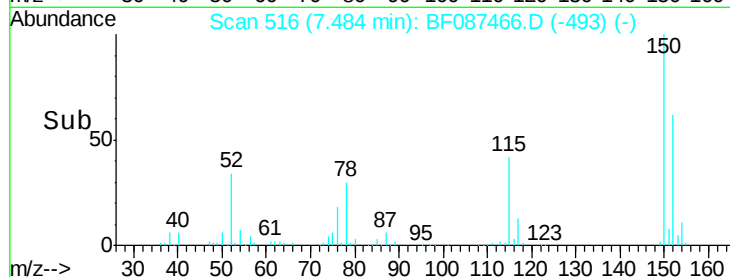
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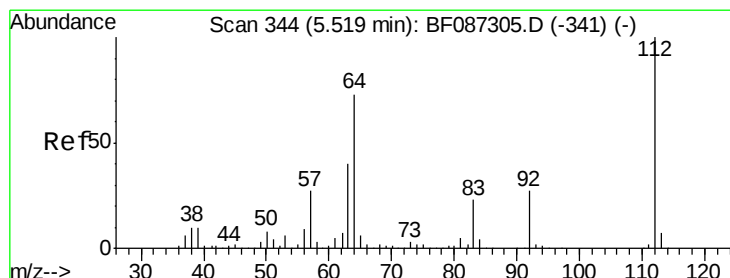
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#5

2-Fluorophenol

Concen: 162.39 ng

RT: 5.39 min Scan# 333

Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

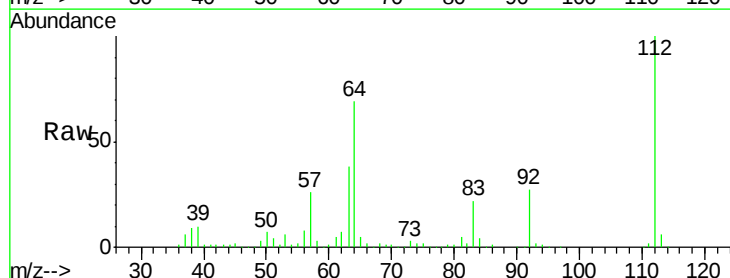
Tgt Ion:112 Resp: 1024069

Ion Ratio Lower Upper

112 100

64 68.8 52.1 78.1

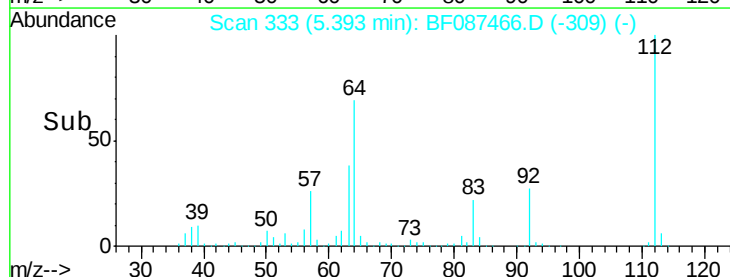
63 38.4 25.7 38.5



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



Time-->



#7

Phenol-d6

Concen: 167.17 ng

RT: 7.05 min Scan# 478

Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion: 99 Resp: 1424405

Ion Ratio Lower Upper

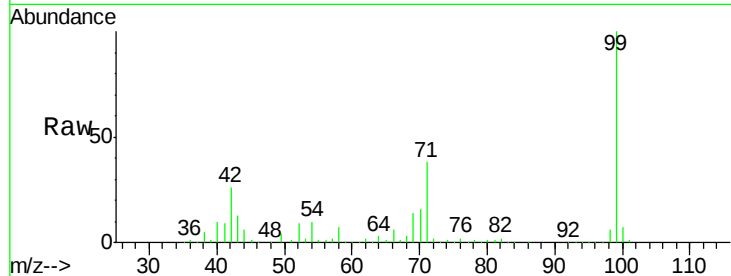
99 100

42 25.6 13.6 20.4#

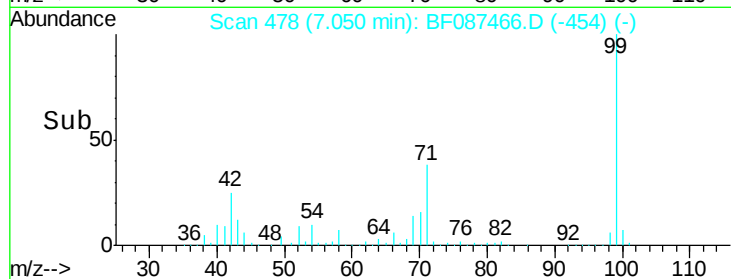
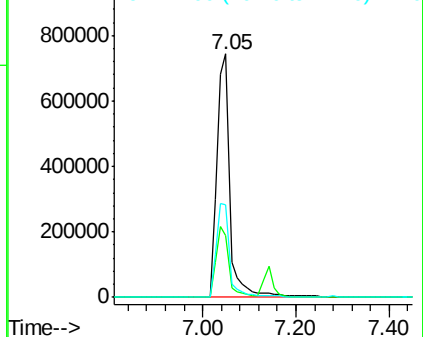
71 37.9 24.6 36.8#

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.03 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Tgt Ion: 136 Resp: 446628

Ion Ratio Lower Upper

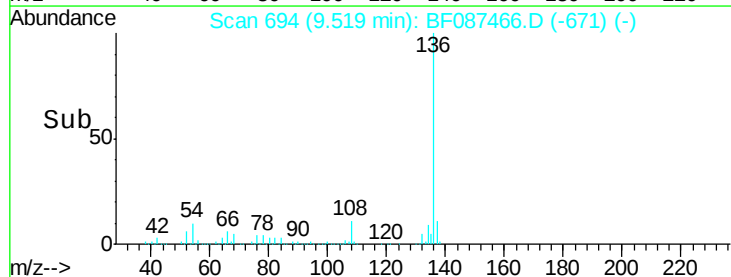
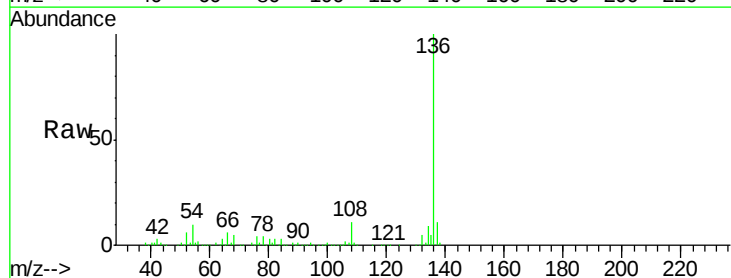
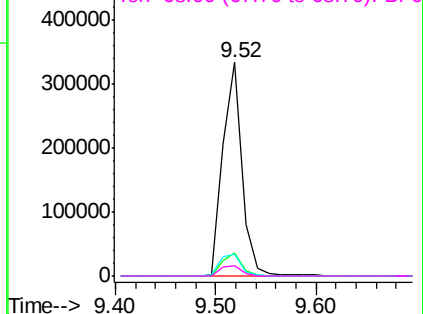
136 100

137 10.6 8.8 13.2

54 10.1 5.0 7.4#

68 4.8 4.4 6.6

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





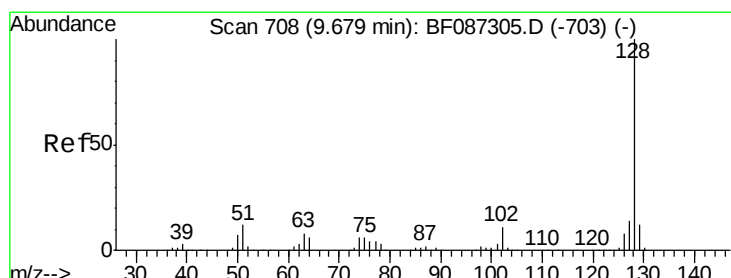
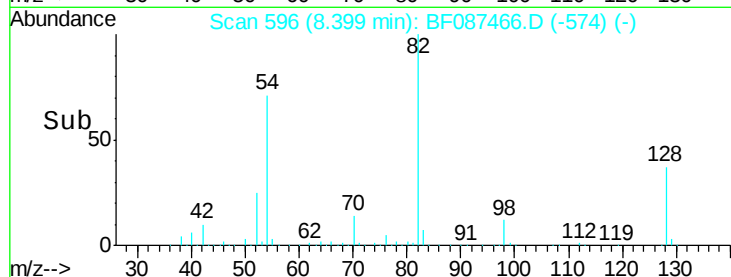
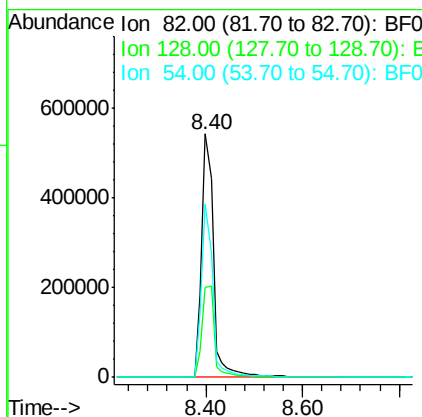
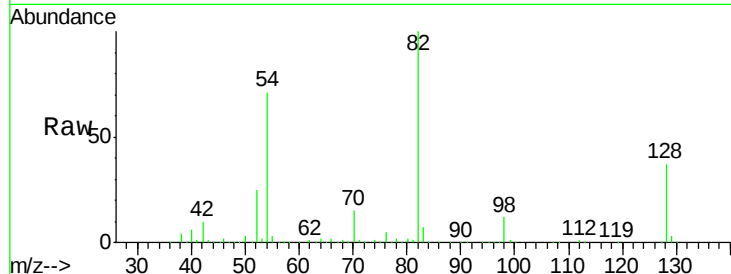
#23
 Nitrobenzene-d5
 Concen: 105.48 ng
 RT: 8.40 min Scan# 596
 Delta R.T. -0.05 min
 Lab File: BF087466.D
 Acq: 28 May 2016 4:21

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.9	40.6	61.0#
54	71.3	38.1	57.1#

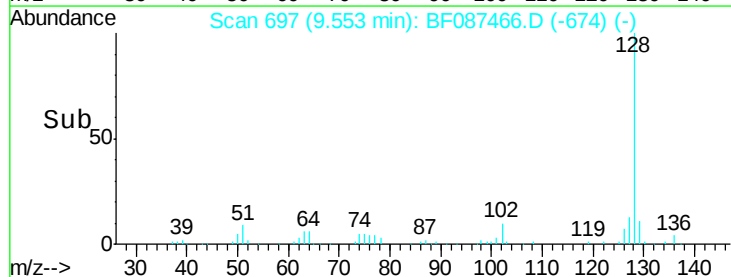
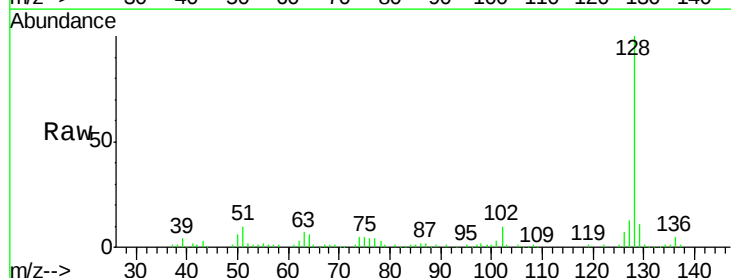
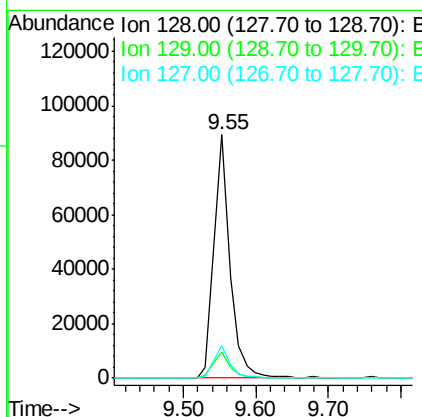
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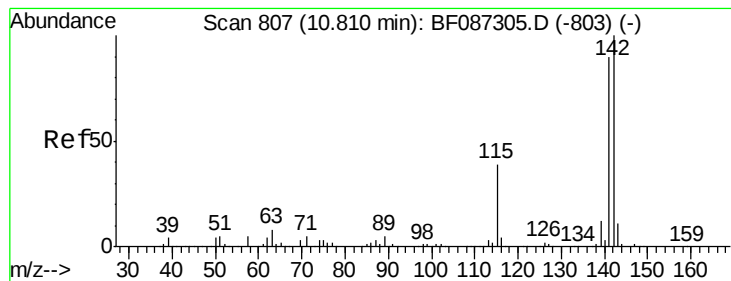
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#31
 Naphthalene
 Concen: 6.23 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.03 min
 Lab File: BF087466.D
 Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	13.0
127	13.2	10.8	16.2





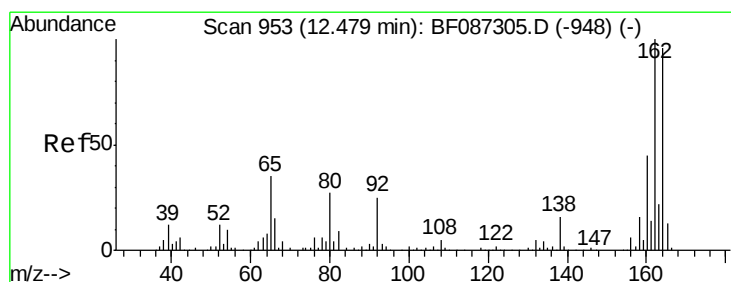
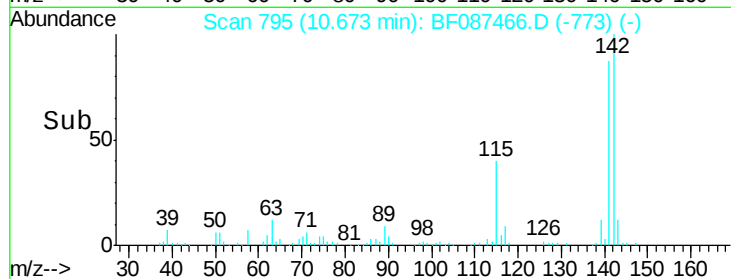
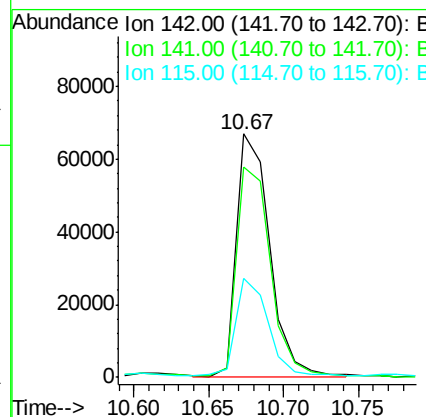
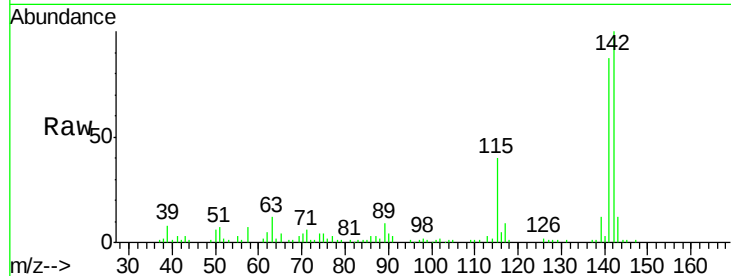
#37
 2-Methylnaphthalene
 Concen: 7.49 ng/mL
 RT: 10.67 min Scan# 795
 Delta R.T. -0.05 min
 Lab File: BF087466.D
 Acq: 28 May 2016 4:21

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.5	71.0	106.6
115	40.5	26.6	39.8

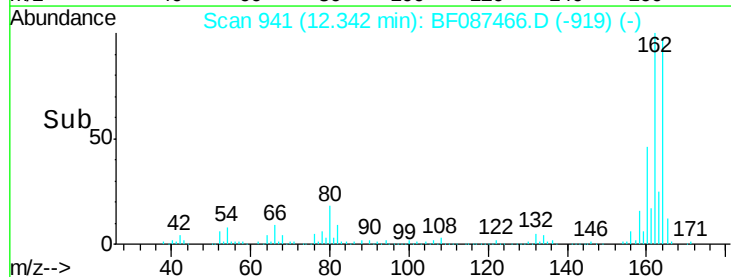
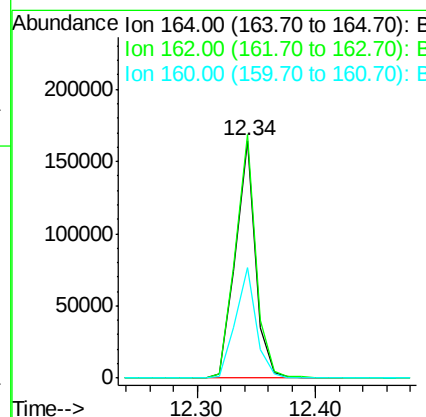
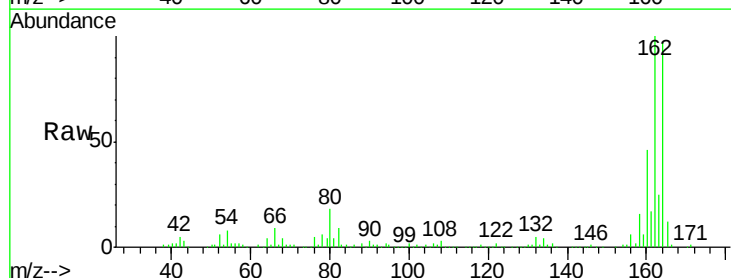
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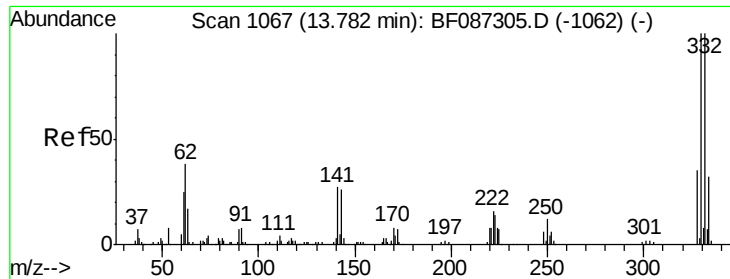
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#38
 Acenaphthene-d10
 Concen: 20.00 ng/mL
 RT: 12.34 min Scan# 941
 Delta R.T. -0.05 min
 Lab File: BF087466.D
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Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.6	82.8	124.2
160	46.7	36.9	55.3





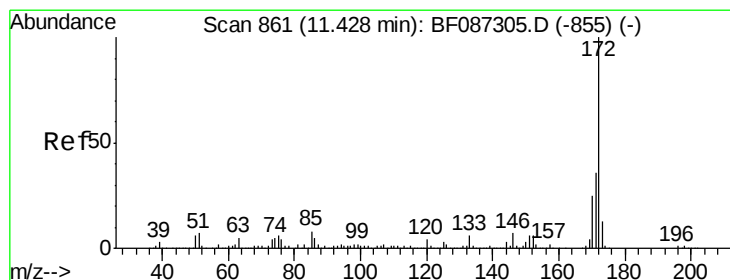
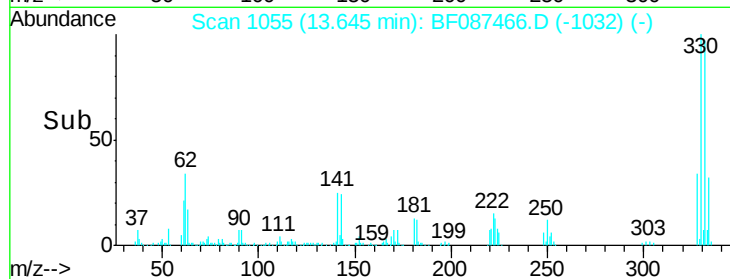
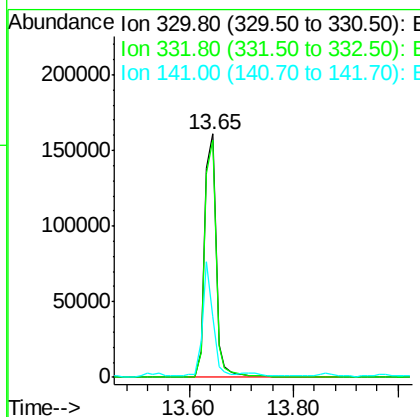
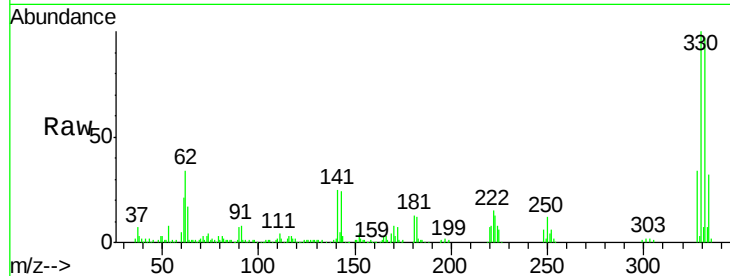
#41
 2,4,6-Tribromophenol
 Concen: 132.70 ng
 RT: 13.65 min Scan# 1055
 Delta R.T. -0.03 min
 Lab File: BF087466.D
 Acq: 28 May 2016 4:21

Instrument :
 BNA_F
 ClientSampleId :
 CHS-STA-1711(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	247215		
332	97.1	79.0	118.4	
141	42.7	31.2	46.8	

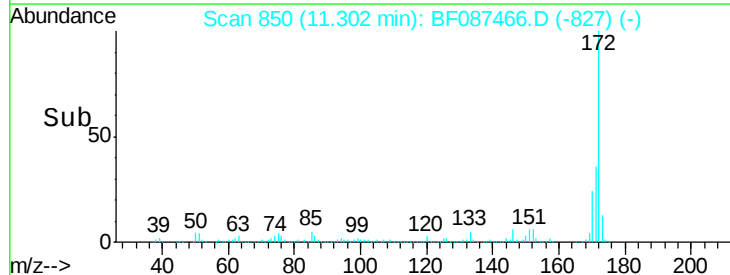
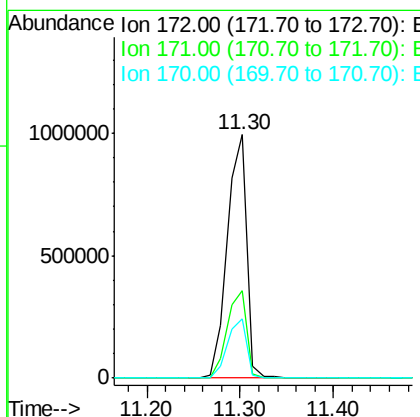
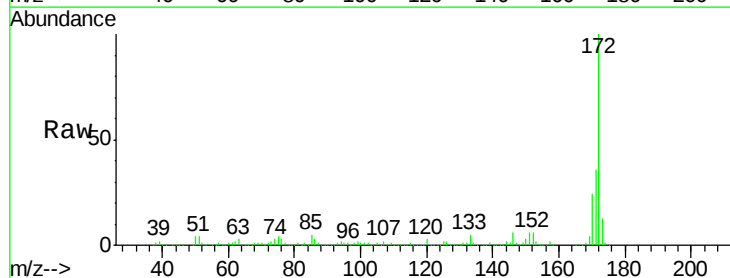
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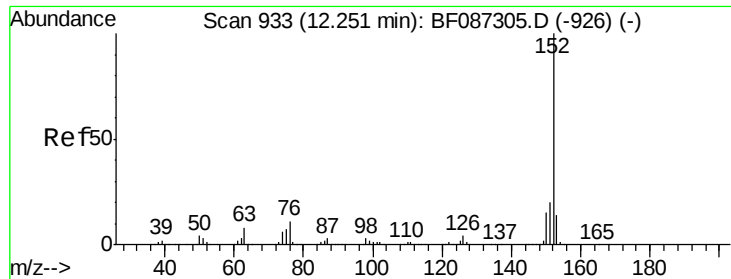
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#44
 2-Fluorobiphenyl
 Concen: 105.43 ng
 RT: 11.30 min Scan# 850
 Delta R.T. -0.03 min
 Lab File: BF087466.D
 Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1449801		
171	36.0	29.0	43.6	
170	24.1	19.8	29.8	





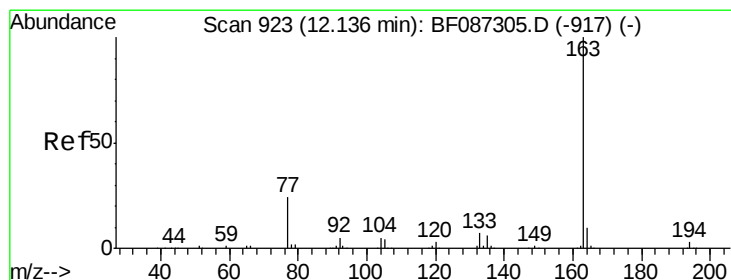
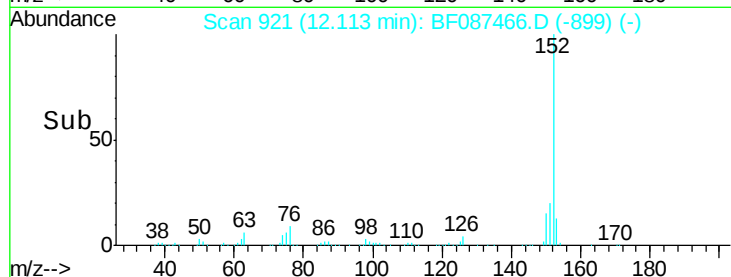
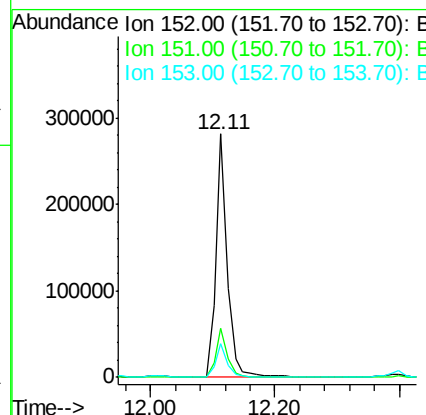
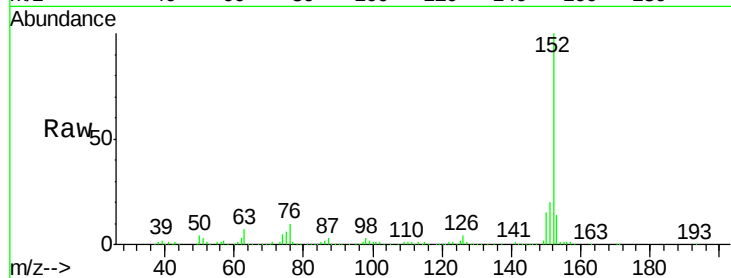
#48
Acenaphthylene
Concen: 17.96 ng
RT: 12.11 min Scan# 921
Delta R.T. -0.05 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

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Tot Ion	Ratio	Resp	Lower	Upper
152	100	355011		
151	20.1	16.8	25.2	
153	14.0	10.9	16.3	

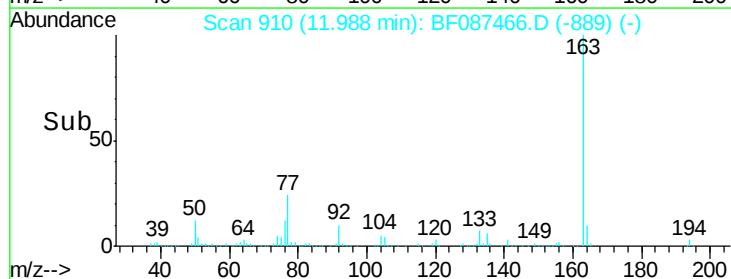
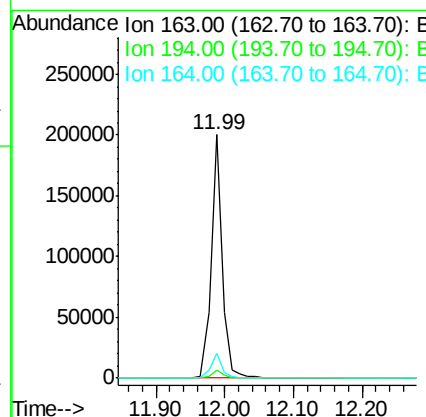
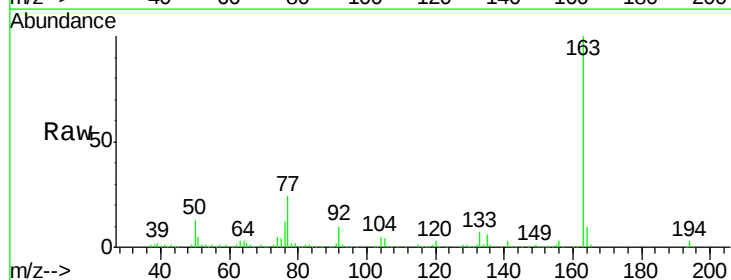
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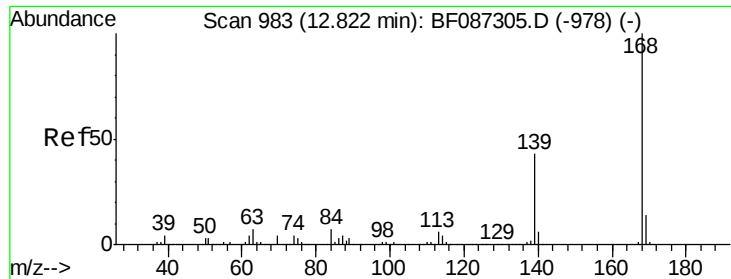
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#49
Dimethylphthalate
Concen: 14.51 ng
RT: 11.99 min Scan# 910
Delta R.T. -0.06 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	225296		
194	3.3	2.6	4.0	
164	10.0	8.2	12.4	





#54

Dibenzenofuran

Concen: 3.04 ng

RT: 12.68 min Scan# 971

Delta R.T. -0.03 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

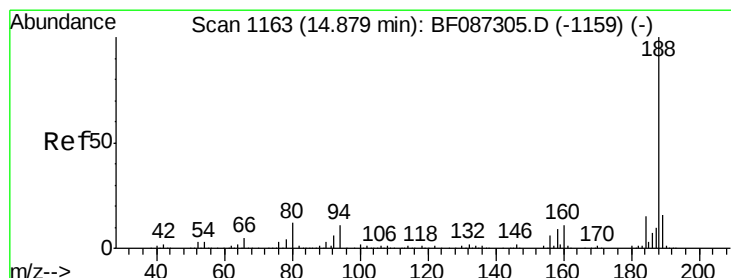
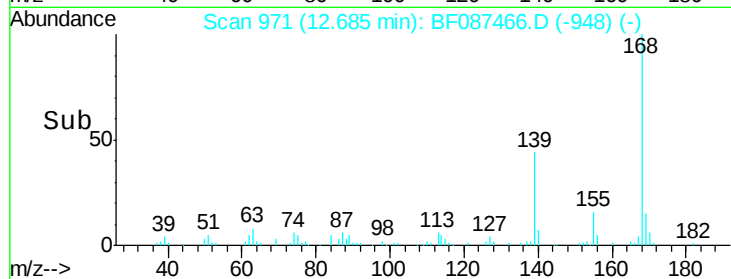
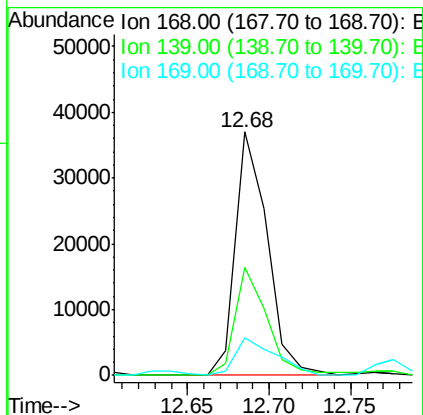
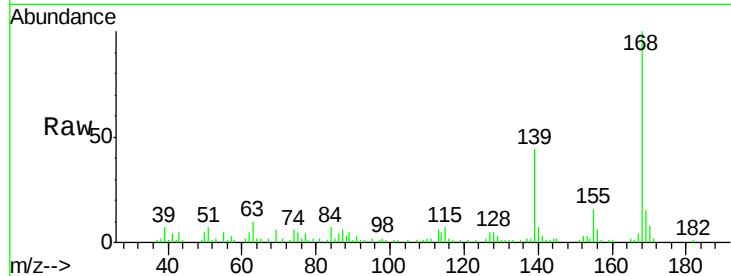
ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion:	168	Resp:	49934
Ion Ratio	Lower	Upper	
168	100		
139	44.4	31.4	47.0
169	15.3	10.7	16.1

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#63

Phenanthrene-d10

Concen: 20.00 ng

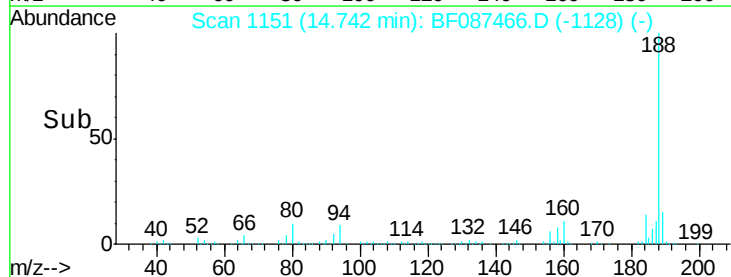
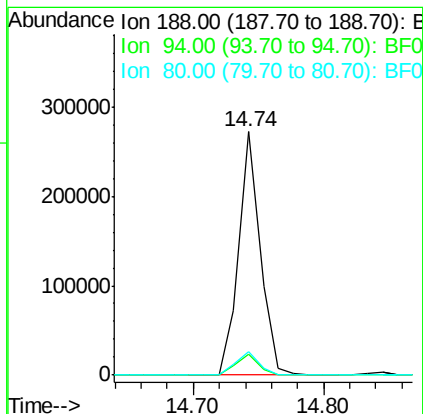
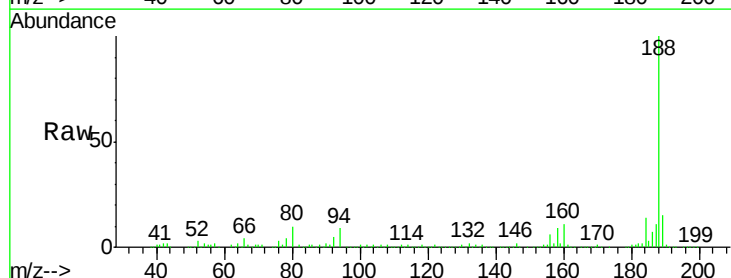
RT: 14.74 min Scan# 1151

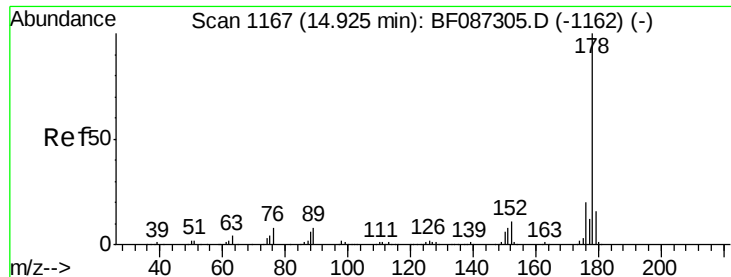
Delta R.T. -0.03 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Tgt Ion:	188	Resp:	312218
Ion Ratio	Lower	Upper	
188	100		
94	8.8	6.8	10.2
80	9.8	7.1	10.7





#70

Phenanthrene

Concen: 19.39 ng

RT: 14.78 min Scan# 1154

Delta R.T. -0.05 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

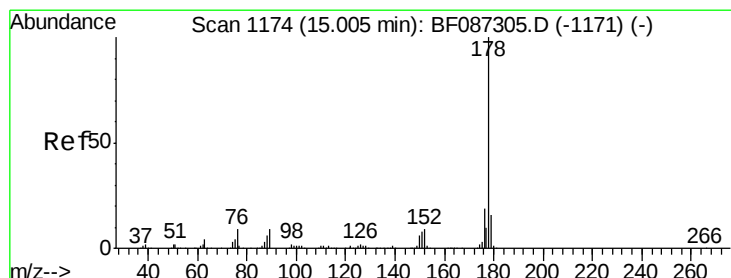
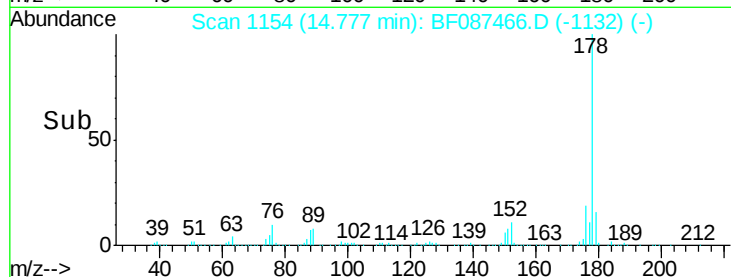
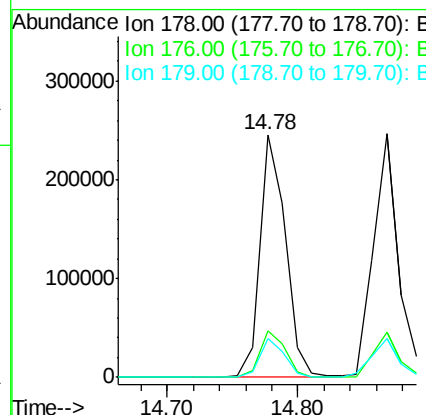
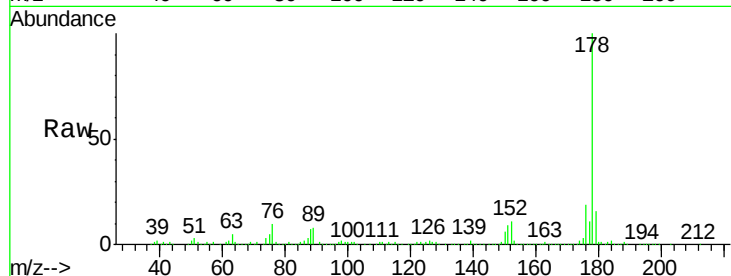
ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion:	178	Resp:	335255
Ion Ratio	Lower	Upper	
178	100		
176	19.2	16.0	24.0
179	16.0	12.6	18.8

Manual Integrations
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#71

Anthracene

Concen: 19.03 ng

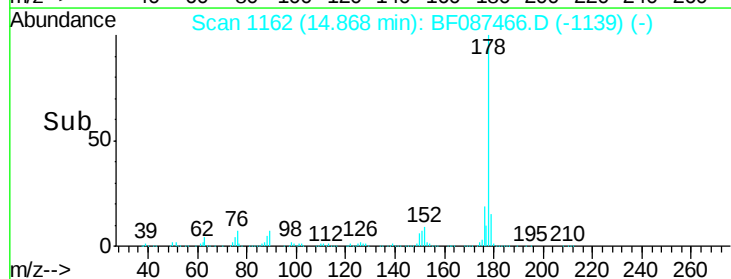
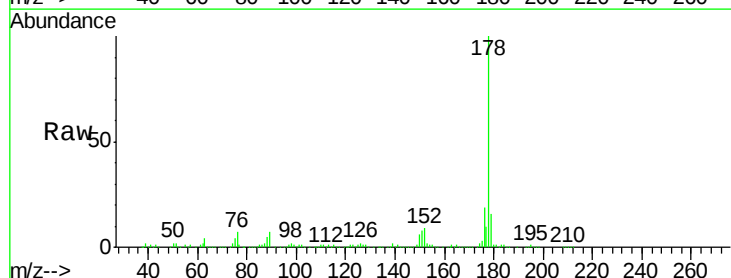
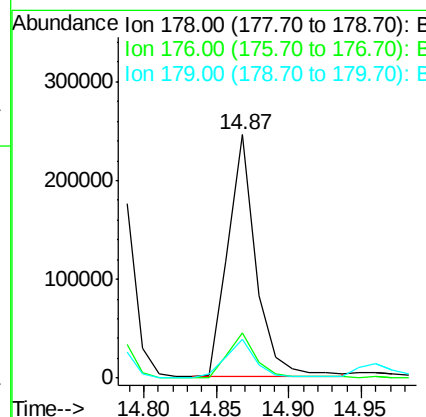
RT: 14.87 min Scan# 1162

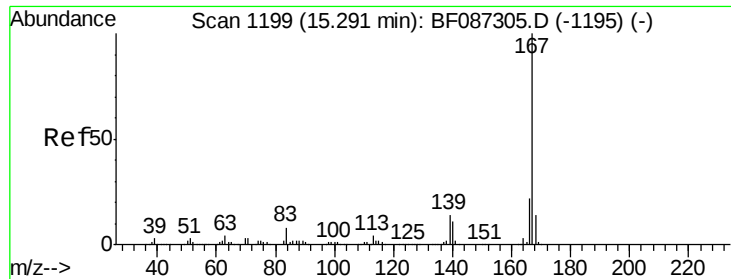
Delta R.T. -0.03 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Tgt Ion:	178	Resp:	332500
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.6	23.4
179	15.7	12.7	19.1





#72

Carbazole

Concen: 9.06 ng

RT: 15.17 min Scan# 1188

Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

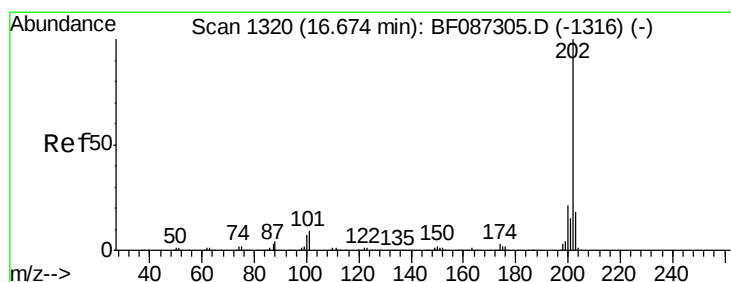
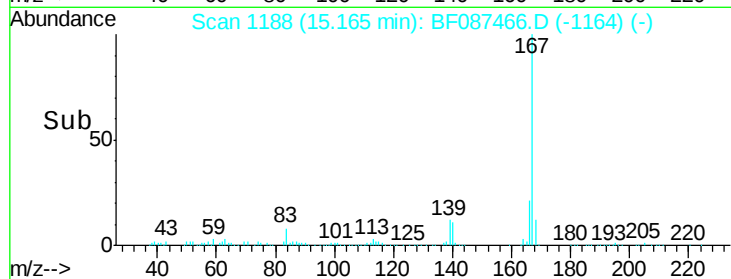
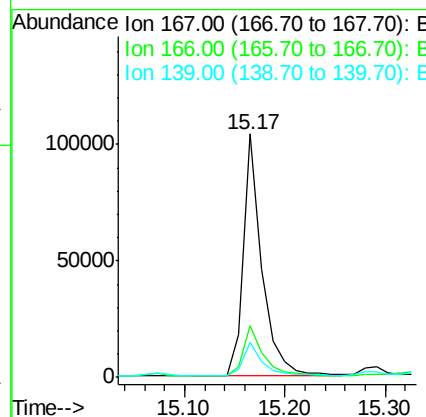
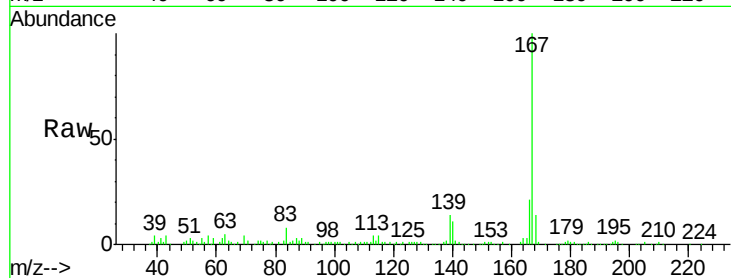
ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion:	167	Resp:	134934
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.7	26.5
139	14.3	10.8	16.2

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#74

Fluoranthene

Concen: 105.63 ng

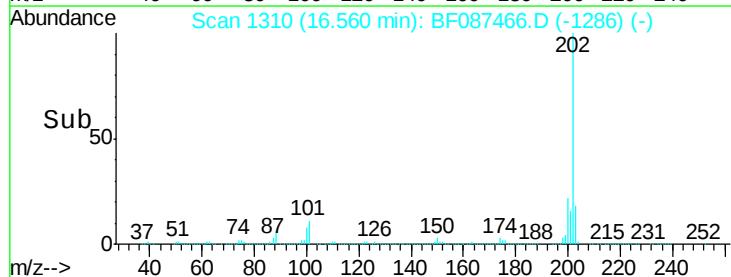
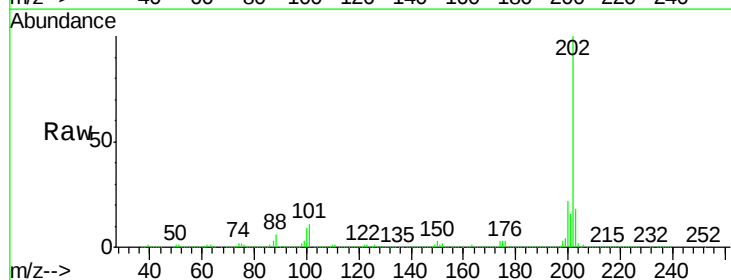
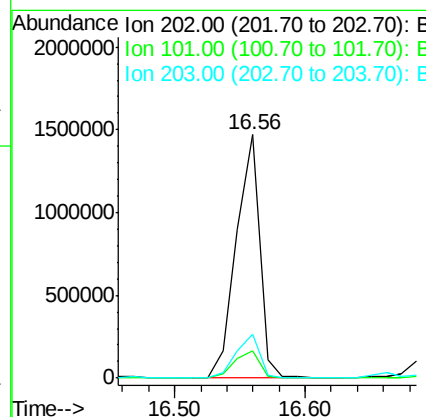
RT: 16.56 min Scan# 1310

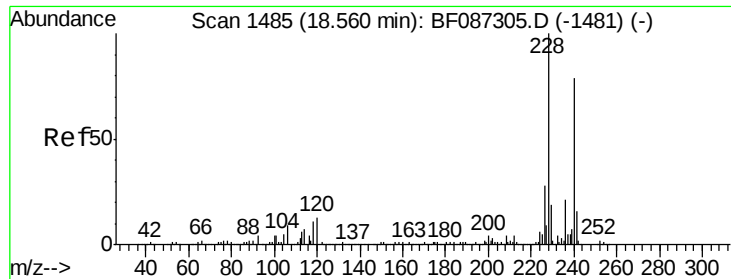
Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Tgt Ion:	202	Resp:	1831872
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	35.4
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.46 min Scan# 1476

Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

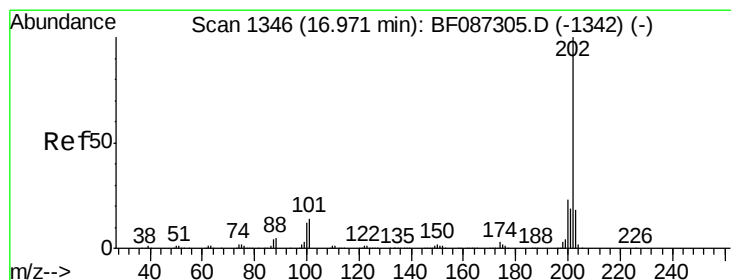
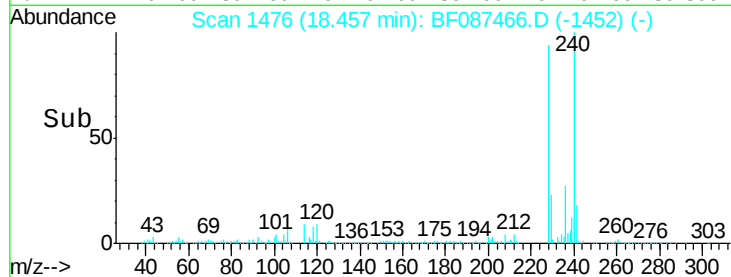
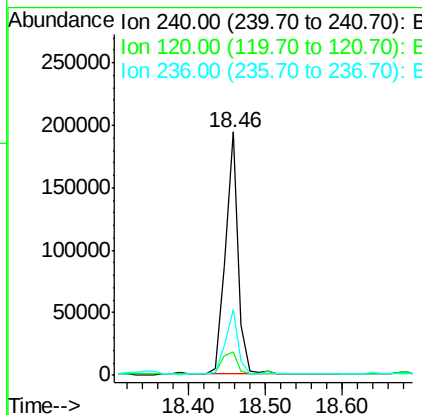
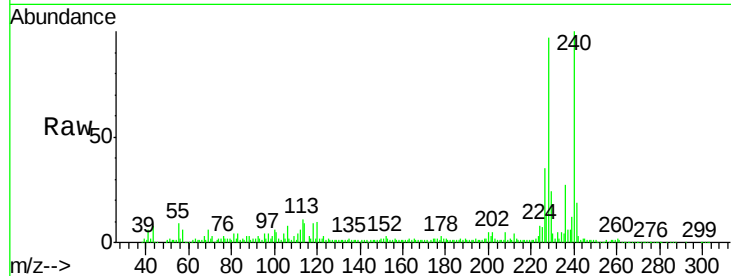
ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
240	100	227782		
120	9.7	11.2	16.8#	
236	26.8	21.2	31.8	

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#77

Pyrene

Concen: 113.08 ng

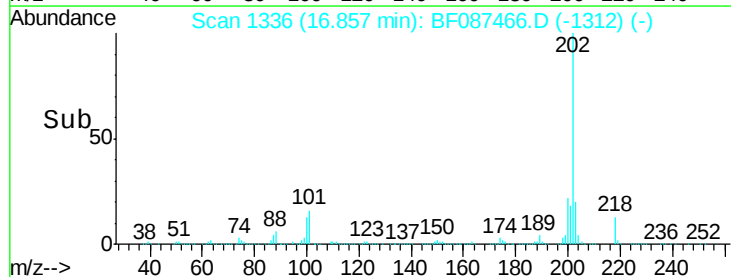
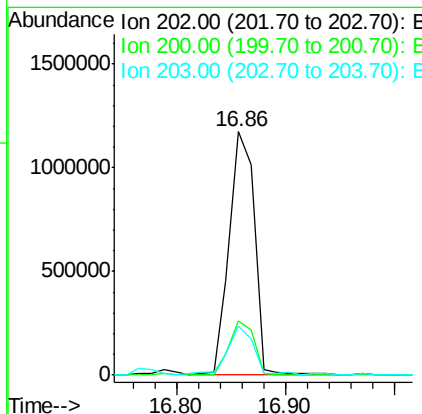
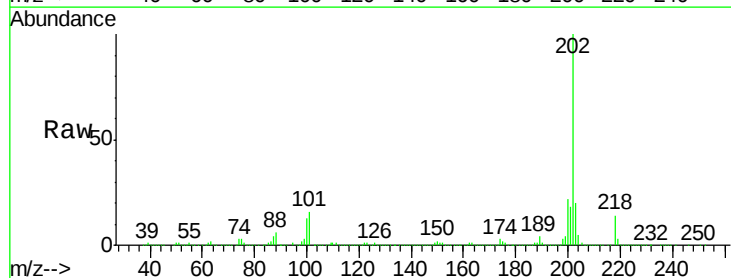
RT: 16.86 min Scan# 1336

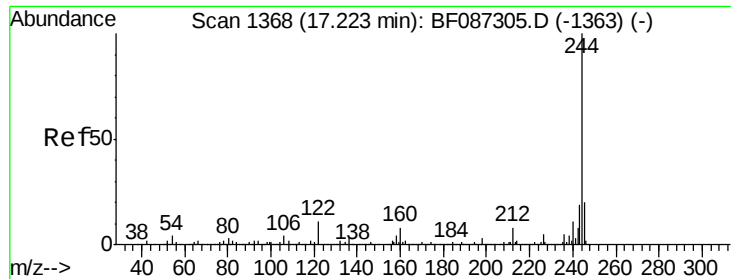
Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1854019		
200	22.1	17.7	26.5	
203	20.4	14.2	21.4	





#78

Terphenyl-d14

Concen: 90.17 ng

RT: 17.11 min Scan# 1358

Delta R.T. -0.02 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion:244 Resp: 966048

Ion Ratio Lower Upper

244 100

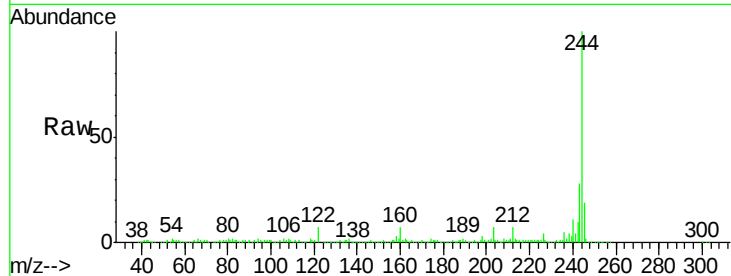
212 7.1 6.2 9.2

122 7.2 12.0 18.0#

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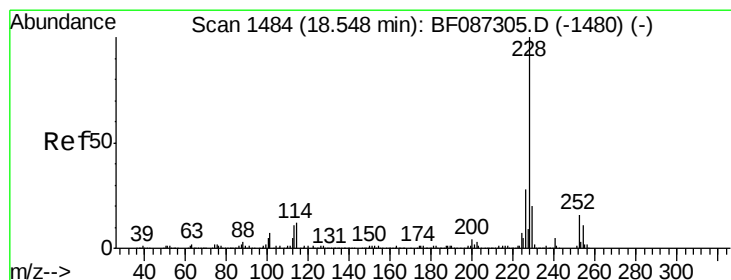
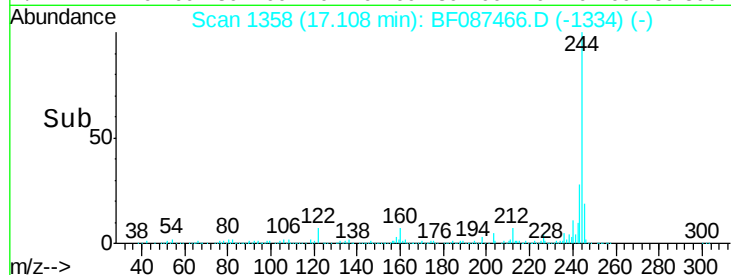
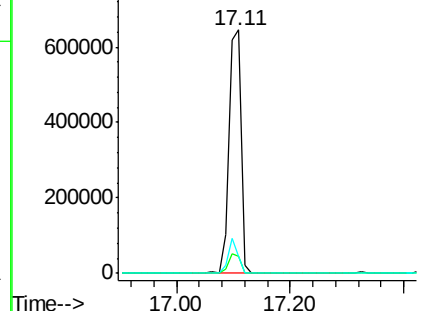
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 65.12 ng m

RT: 18.45 min Scan# 1475

Delta R.T. -0.01 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

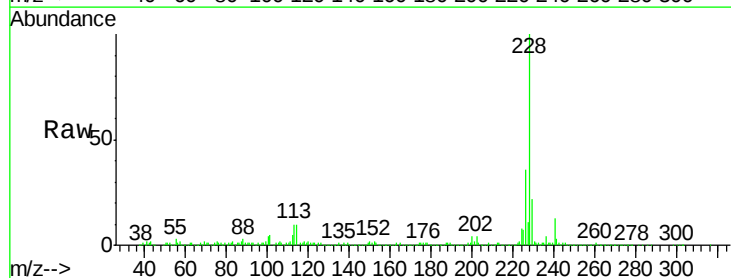
Tgt Ion:228 Resp: 843677

Ion Ratio Lower Upper

228 100

226 36.0 22.5 33.7#

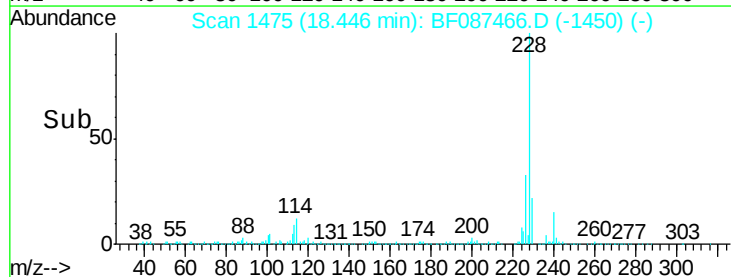
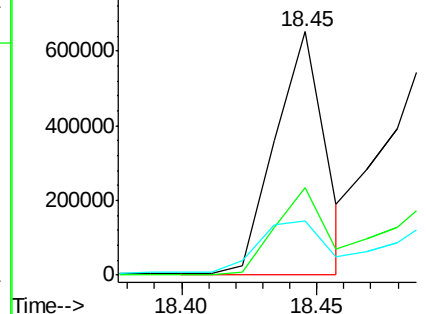
229 22.2 16.6 25.0

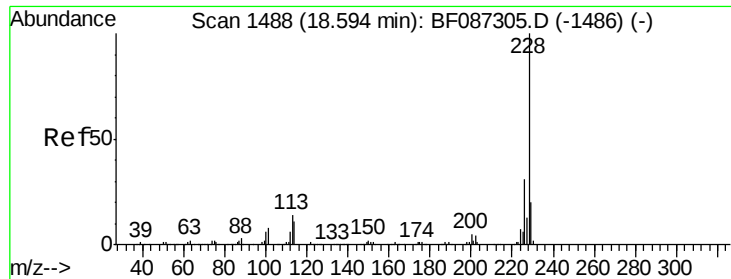


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





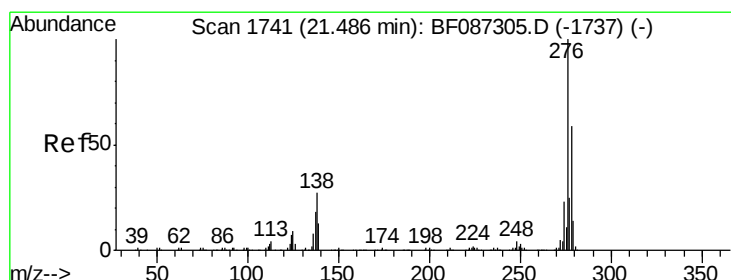
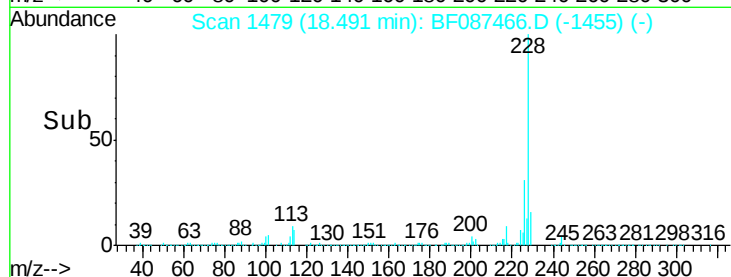
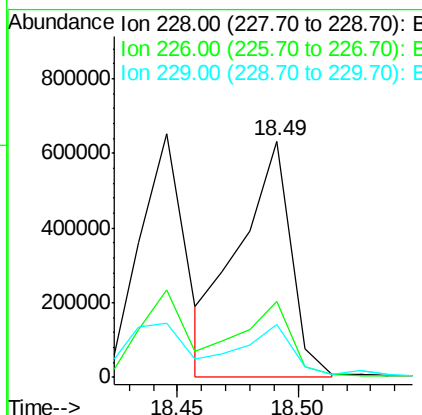
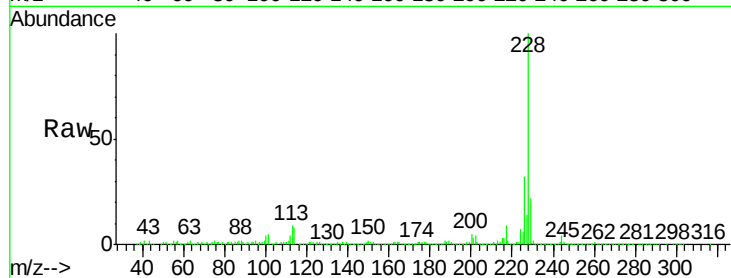
#82
Chrysene
Concen: 74.41 ng/ml
RT: 18.49 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.4	36.6
229	22.4	15.8	23.8

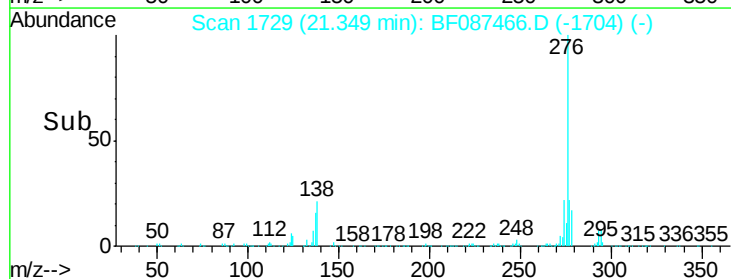
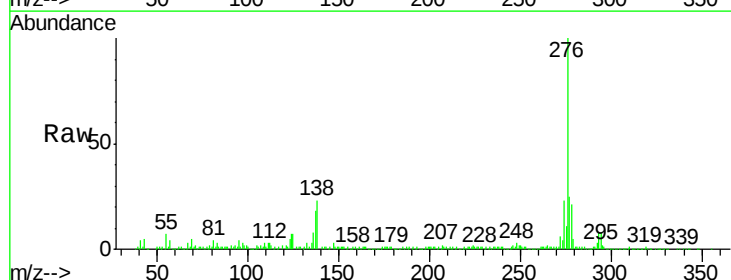
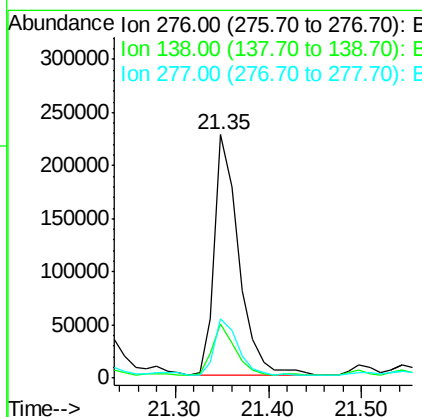
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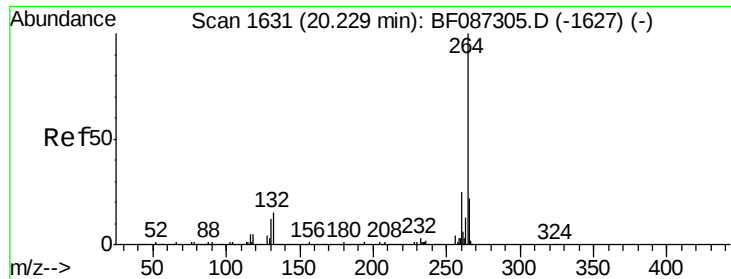
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#85
Indeno(1,2,3-cd)pyrene
Concen: 40.19 ng/ml
RT: 21.35 min Scan# 1729
Delta R.T. -0.01 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.8	25.6	38.4#
277	23.5	20.5	30.7





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.13 min Scan# 1622

Delta R.T. -0.01 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

Instrument :

BNA_F

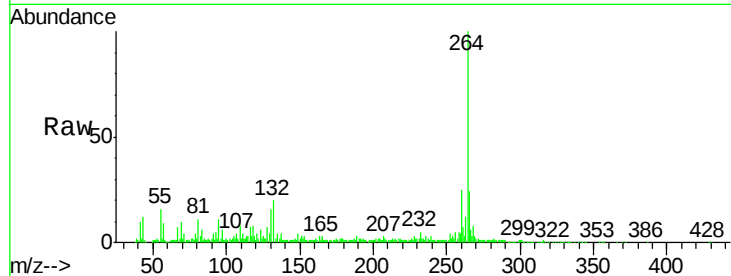
ClientSampleId :

CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.5	29.3
265	23.6	17.3	25.9

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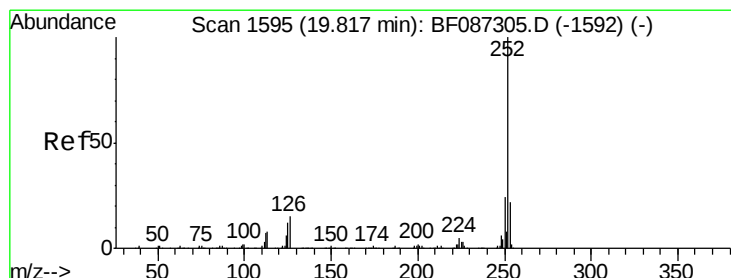
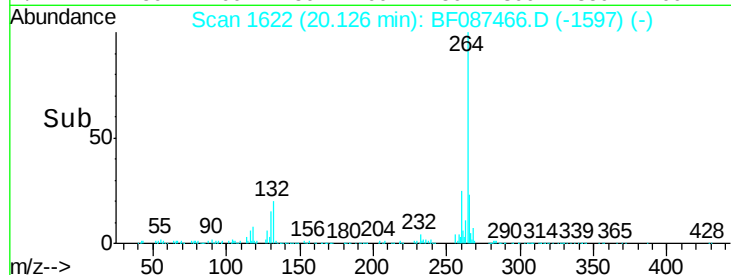
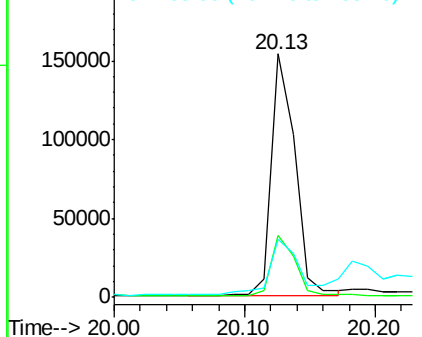


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 102.22 ng m

RT: 19.73 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BF087466.D

Acq: 28 May 2016 4:21

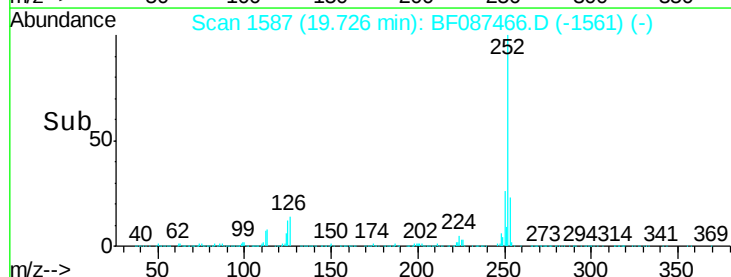
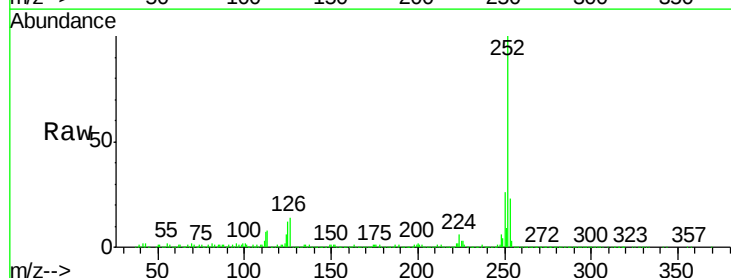
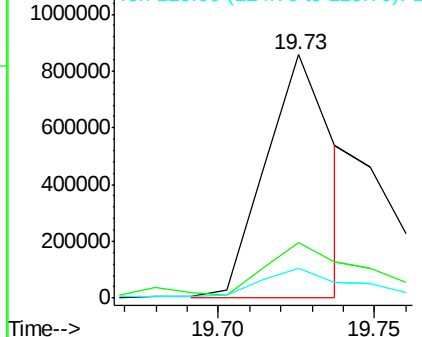
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	12.4	11.4	17.0

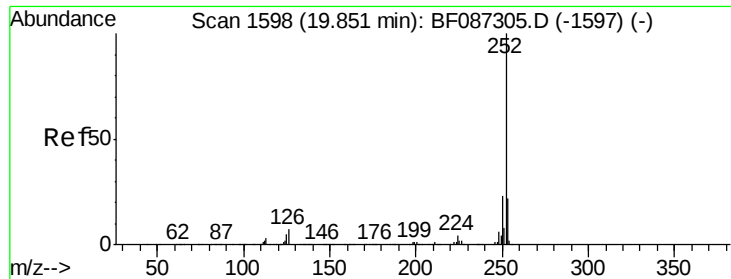
Abundance

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





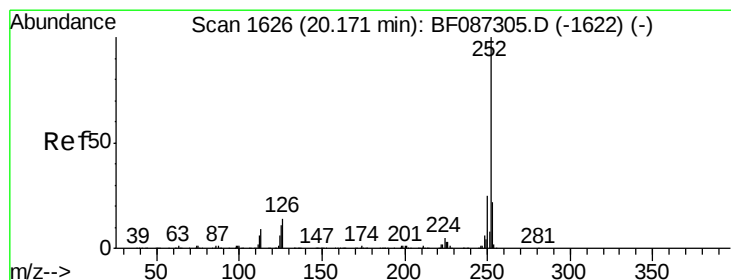
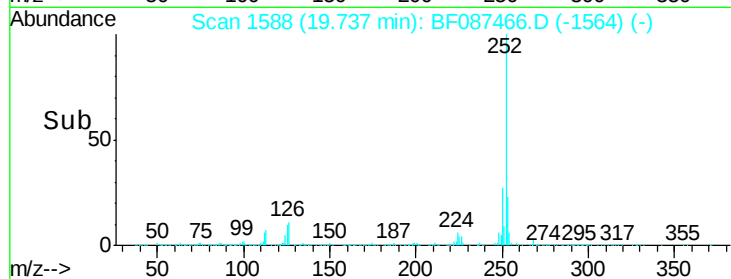
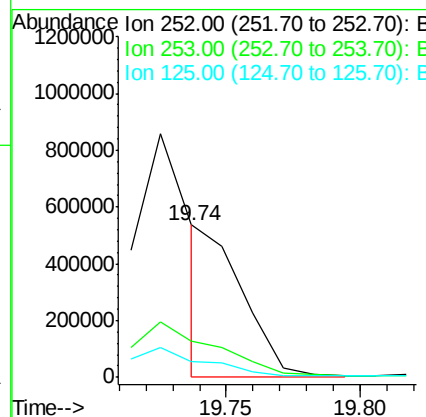
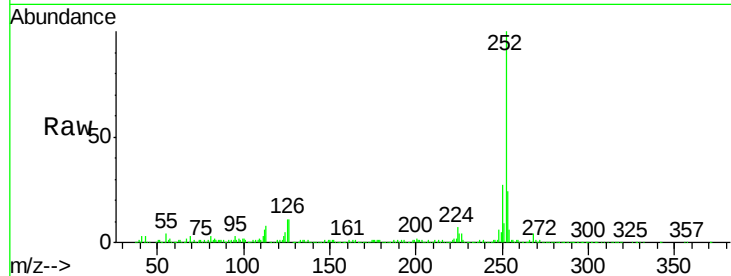
#88
Benzo(k)fluoranthene
Concen: 46.86 ng/ml
RT: 19.74 min Scan# 1588
Delta R.T. -0.02 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	10.7	9.1	13.7

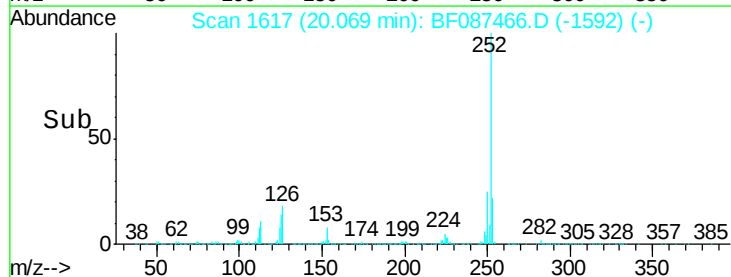
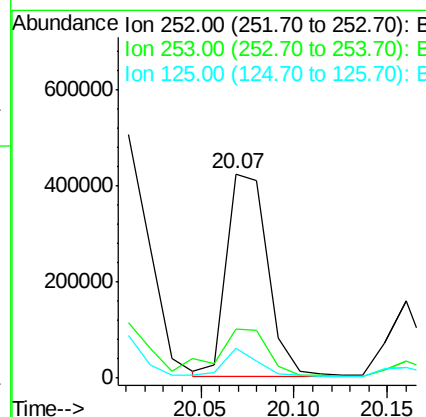
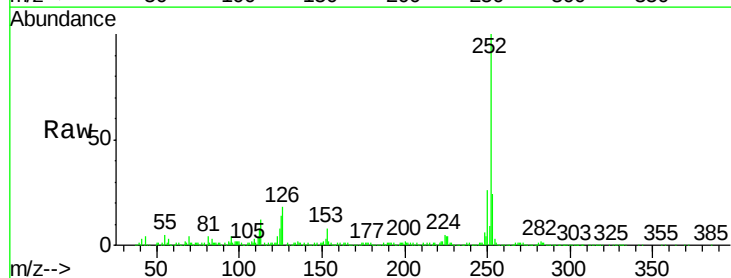
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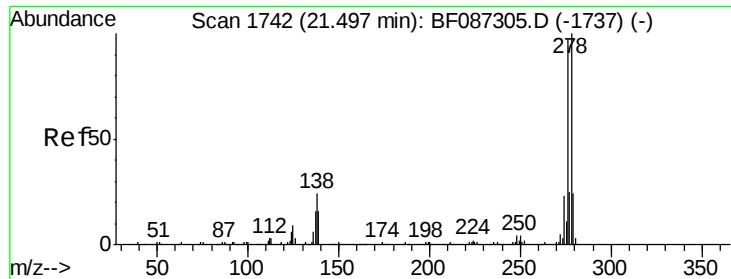
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5/31/2016 7:01:55 PM



#89
Benzo(a)pyrene
Concen: 59.80 ng/ml
RT: 20.07 min Scan# 1617
Delta R.T. -0.01 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.2	25.8
125	14.4	9.0	13.6





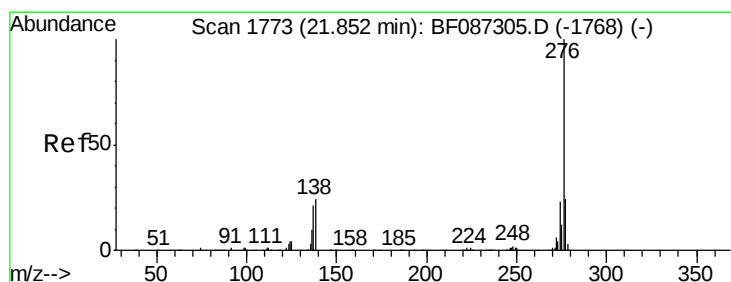
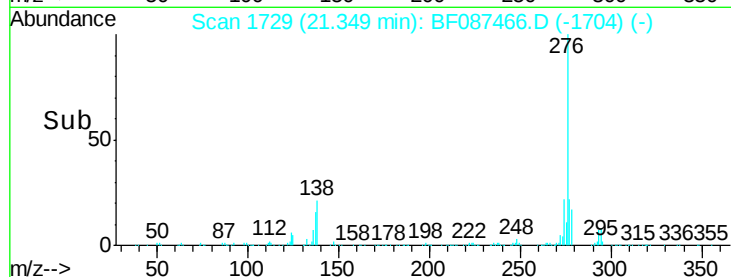
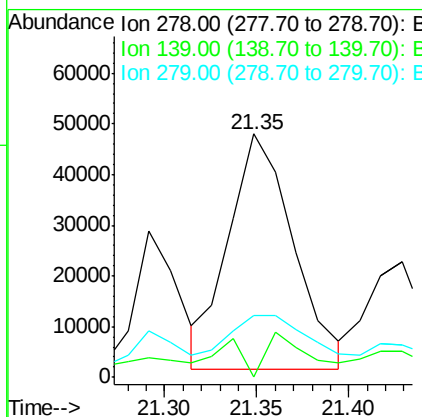
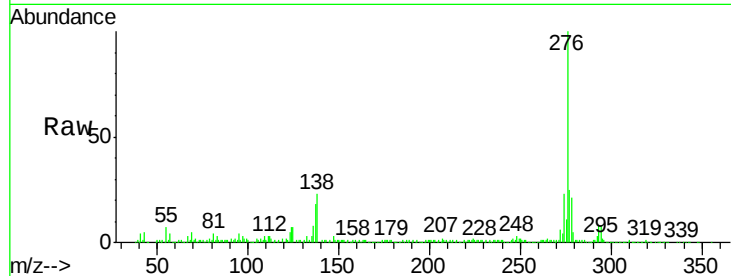
#90
Dibenzo(a,h)anthracene
Concen: 12.26 ng/mL
RT: 21.35 min Scan# 1729
Delta R.T. -0.01 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Instrument :
BNA_F
ClientSampleId :
CHS-STA-1711(0-4)

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	25.2	19.6	29.4

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#91
Benzo(g,h,i)perylene
Concen: 37.22 ng/mL
RT: 21.70 min Scan# 1760
Delta R.T. -0.01 min
Lab File: BF087466.D
Acq: 28 May 2016 4:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.6	29.4
138	23.1	23.6	35.4#

