

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086971.D
 Acq On : 13 May 2016 12:58
 Operator : UM/SJ
 Sample : H2994-09DL 2X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1772-00(0-2)DL

Manual Integrations
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Quant Time: May 13 15:05:51 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 14:55:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	136100	20.00	ng	-0.08
21) Naphthalene-d8	7.91	136	521537	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	214813	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	323553	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	282337	20.00	ng	-0.08
86) Perylene-d12	15.13	264	254214	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	401877	50.01	ng	-0.08
7) Phenol-d6	6.28	99	569735	53.05	ng	-0.08
23) Nitrobenzene-d5	7.19	82	383298	36.90	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	87616	38.53	ng	-0.08
44) 2-Fluorobiphenyl	8.98	172	569288	44.54	ng	-0.08
78) Terphenyl-d14	12.72	244	377554	28.37	ng	-0.08
Target Compounds						Qvalue
31) Naphthalene	7.93	128	231157	8.85	ng	99
37) 2-Methylnaphthalene	8.63	142	130153	8.52	ng	98
48) Acenaphthylene	9.52	152	245783	12.48	ng	98
49) Dimethylphthalate	9.39	163	51341	3.13	ng	99
54) Dibenzofuran	9.86	168	64504	4.10	ng	# 96
70) Phenanthrene	11.15	178	216603	12.54	ng	99
71) Anthracene	11.21	178	188491	10.67	ng	98
72) Carbazole	11.37	167	73164	4.82	ng	98
74) Fluoranthene	12.34	202	786908	44.31	ng	96
77) Pyrene	12.57	202	779375	36.06	ng	99
80) Benzo(a)anthracene	13.76	228	527648m	33.29	ng	
82) Chrysene	13.79	228	494776	30.69	ng	98
85) Indeno(1,2,3-cd)pyrene	16.38	276	233961	17.44	ng	# 91
87) Benzo(b)fluoranthene	14.77	252	792886m	47.99	ng	
88) Benzo(k)fluoranthene	14.78	252	188851m	13.96	ng	
89) Benzo(a)pyrene	15.07	252	349902	24.55	ng	95
90) Dibenzo(a,h)anthracene	16.38	278	62562m	5.21	ng	
91) Benzo(g,h,i)perylene	16.75	276	198811	16.29	ng	# 91

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

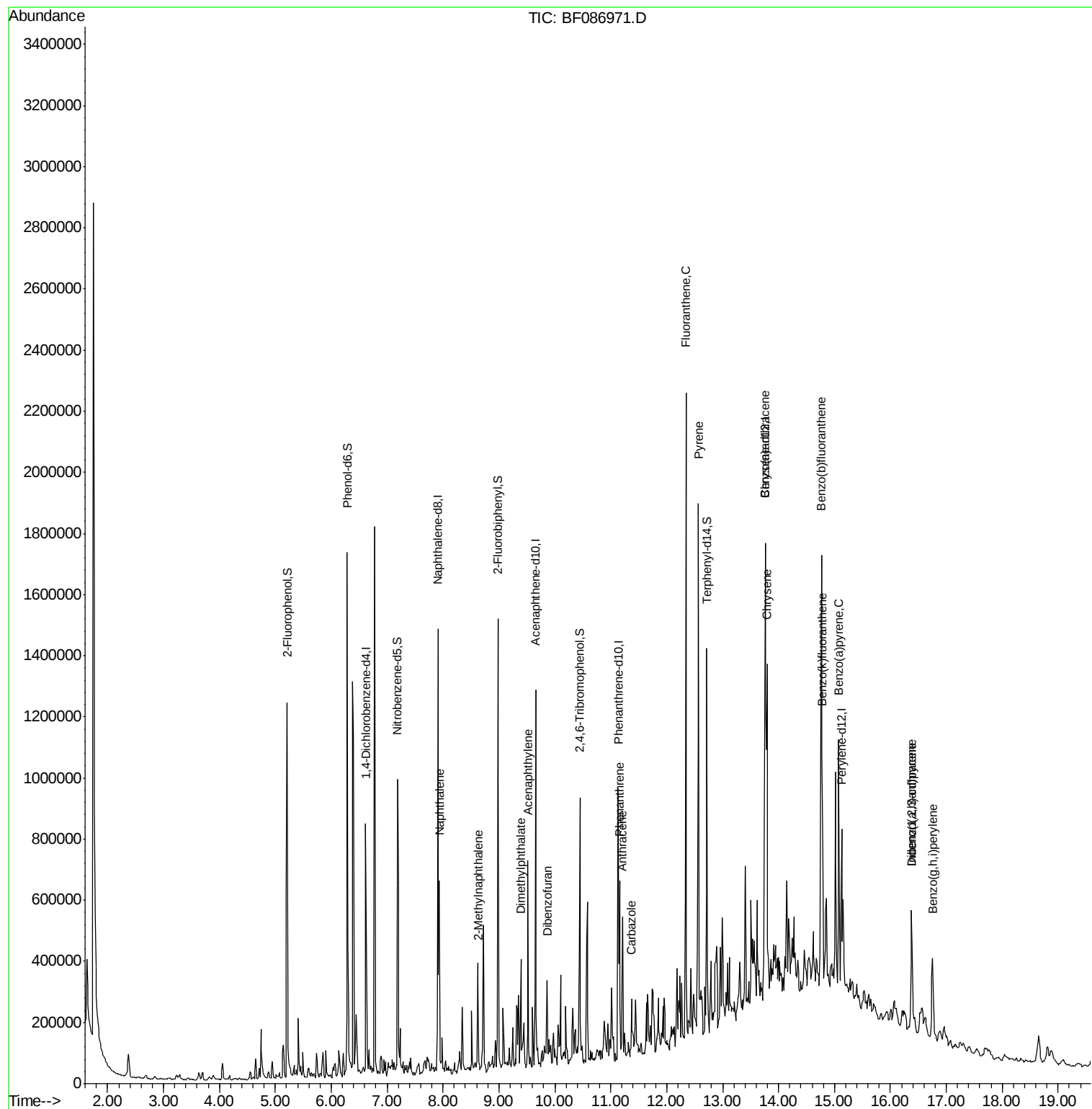
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
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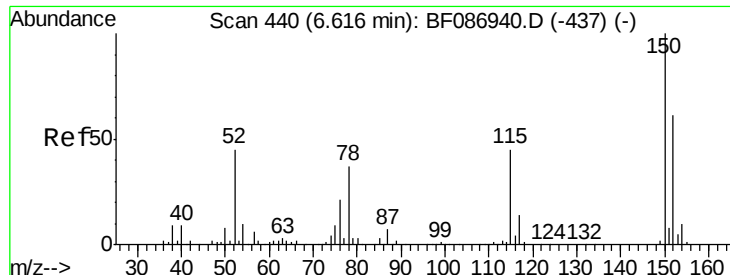
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QLast Update : Fri May 13 14:55:23 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF086971.D

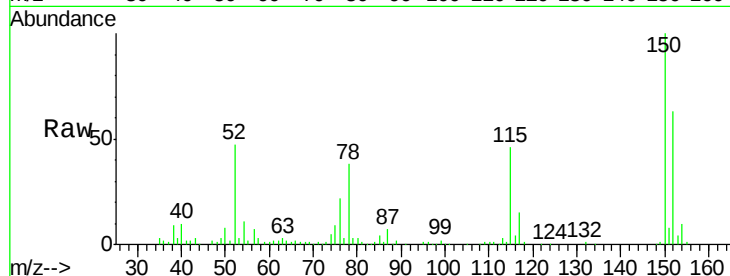
Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

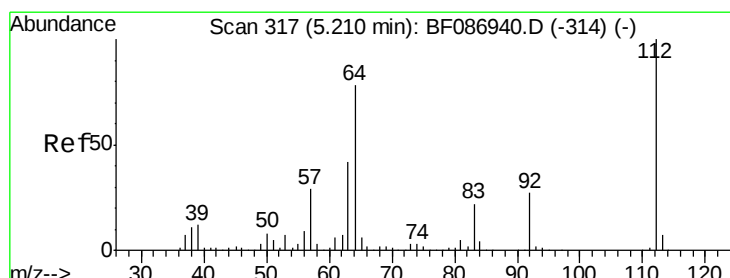
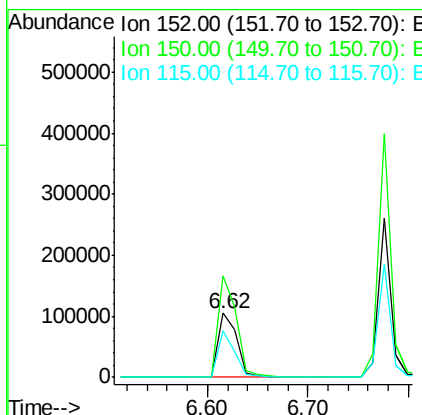
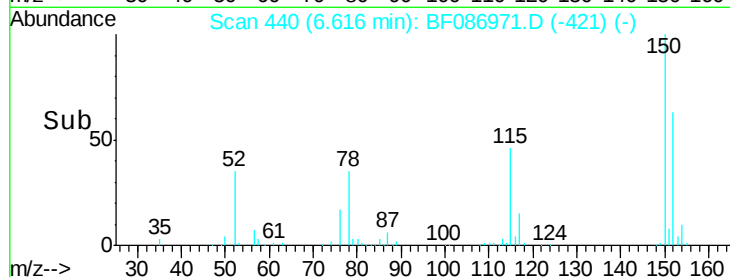
CH-STA-1772-00(0-2)DL



Tgt Ion:	152	Resp:	136100
Ion Ratio	Lower	Upper	
152	100		
150	158.9	125.8	188.6
115	72.6	51.5	77.3

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#5

2-Fluorophenol

Concen: 50.01 ng

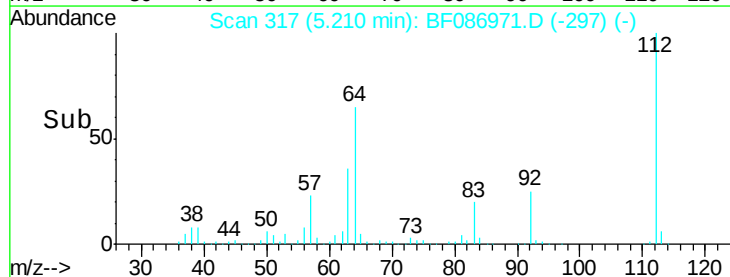
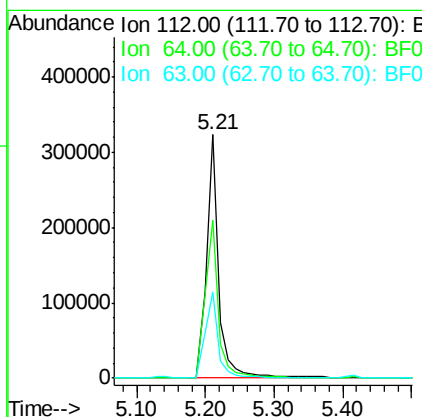
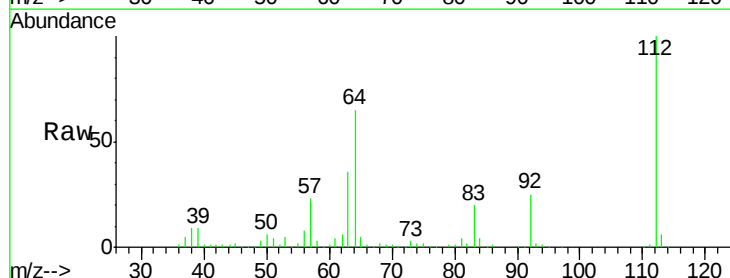
RT: 5.21 min Scan# 317

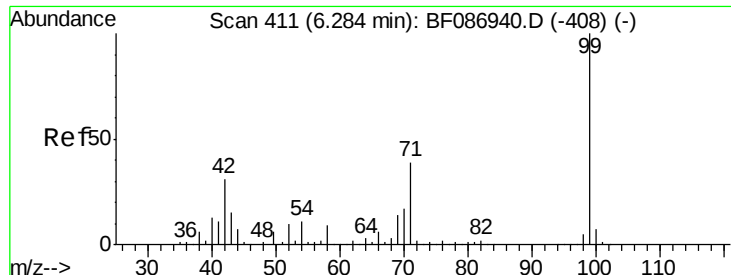
Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	112	Resp:	401877
Ion Ratio	Lower	Upper	
112	100		
64	65.0	52.1	78.1
63	35.6	25.7	38.5





#7

Phenol-d6

Concen: 53.05 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

CH-STA-1772-00(0-2)DL

Tgt Ion: 99 Resp: 569735

Ion Ratio Lower Upper

99 100

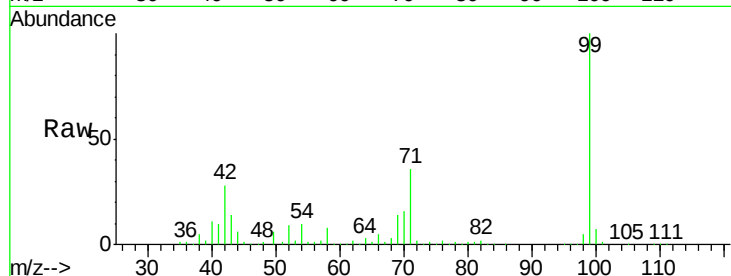
42 28.2 13.6 20.4#

71 35.9 24.6 36.8

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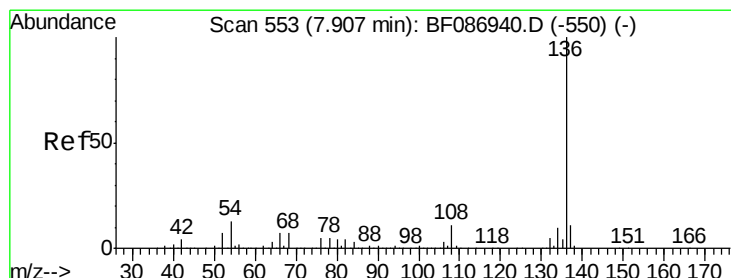
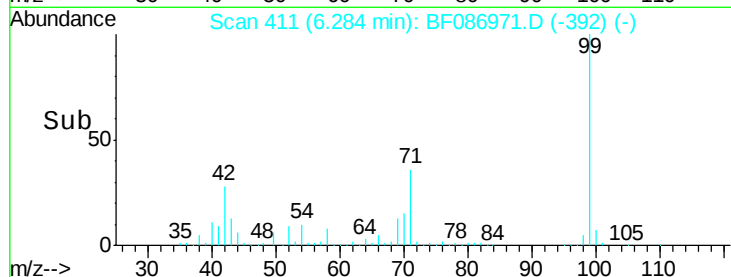
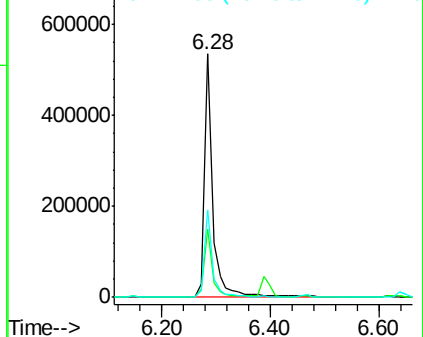
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.91 min Scan# 553

Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion: 136 Resp: 521537

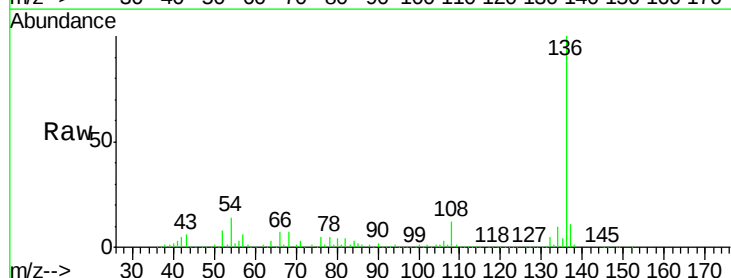
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 13.9 5.0 7.4#

68 7.3 4.4 6.6#

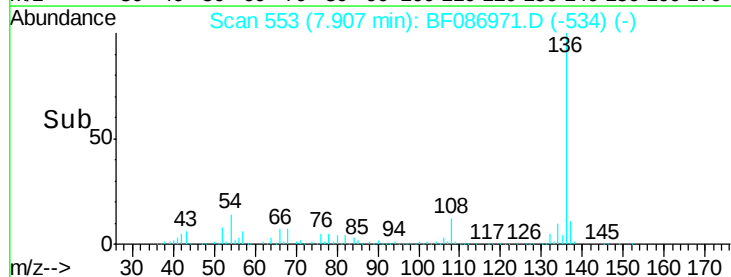
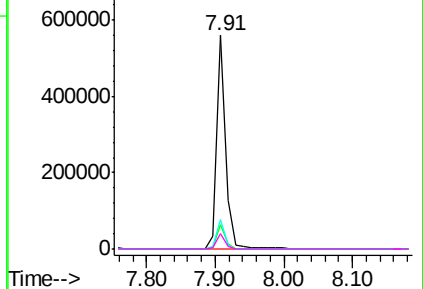


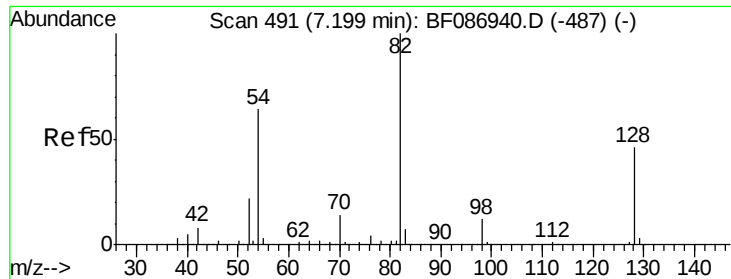
Abundance Ion 136.00 (135.70 to 136.70): E

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





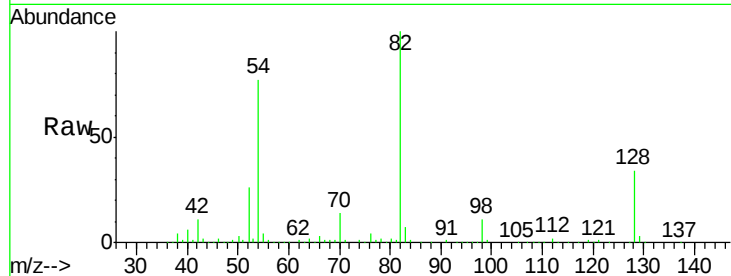
#23
Nitrobenzene-d5
Concen: 36.90 ng
RT: 7.19 min Scan# 490
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)DL

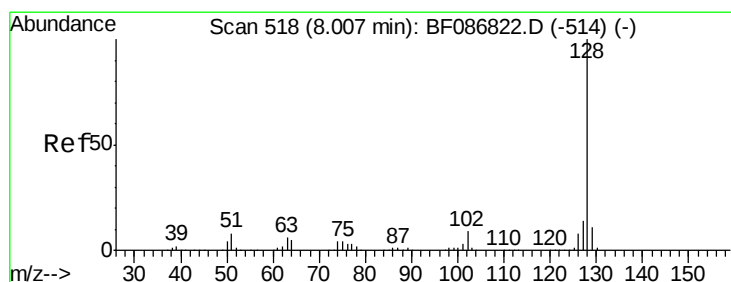
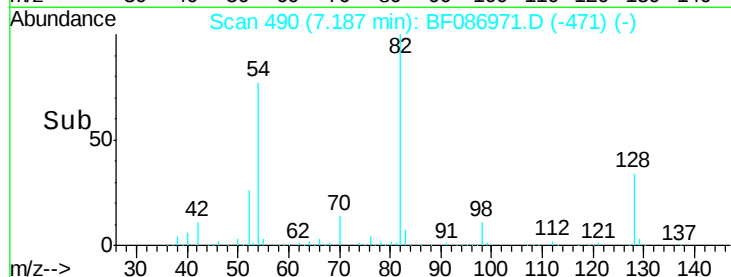
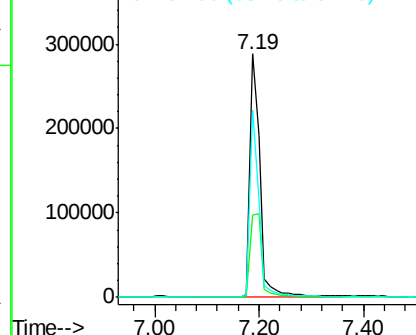
Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	33.8	40.6	61.0#
54	76.8	38.1	57.1#

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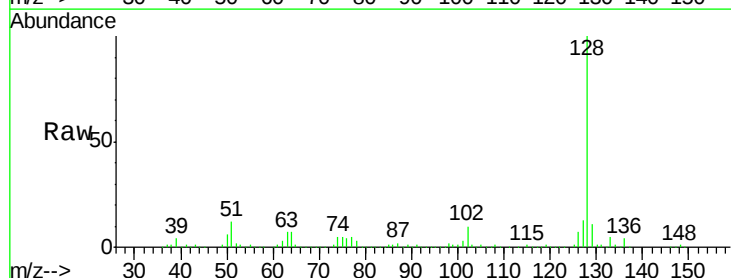


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

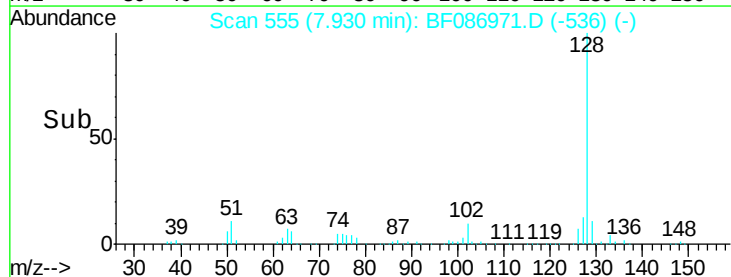
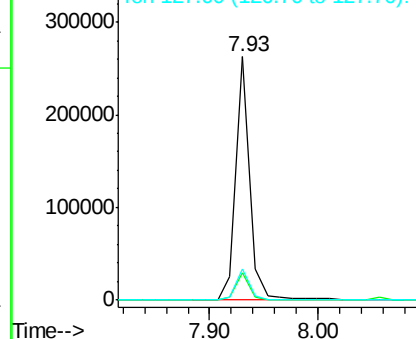


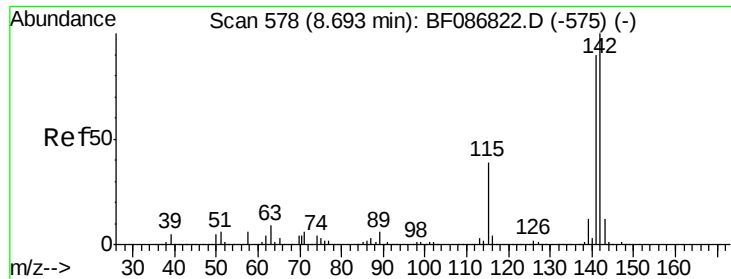
#31
Naphthalene
Concen: 8.85 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.1	8.6	13.0
127	12.9	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 8.52 ng

RT: 8.63 min Scan# 616

Delta R.T. -0.07 min

Lab File: BF086971.D

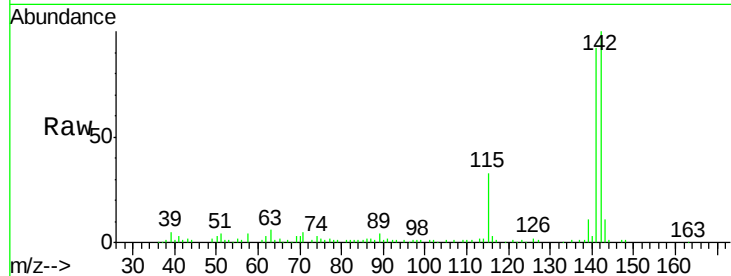
Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

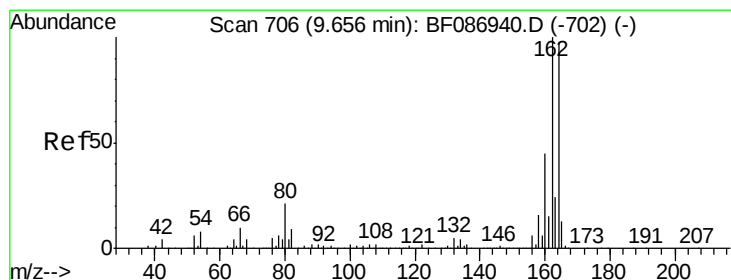
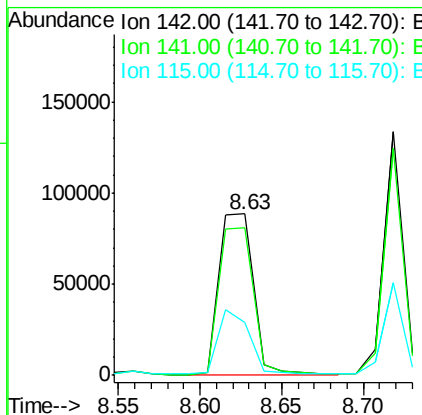
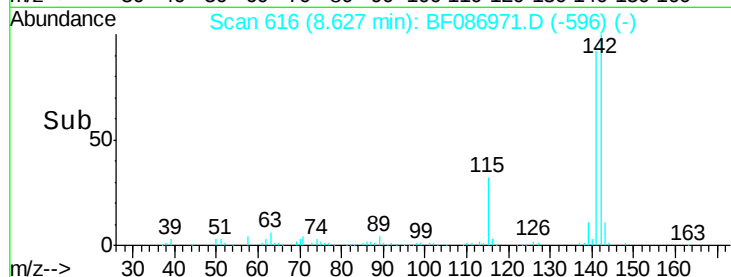
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Tgt Ion:	142	Resp:	130153
Ion Ratio	Lower	Upper	
142	100		
141	91.6	71.0	106.6
115	32.8	26.6	39.8

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#38

Acenaphthene-d10

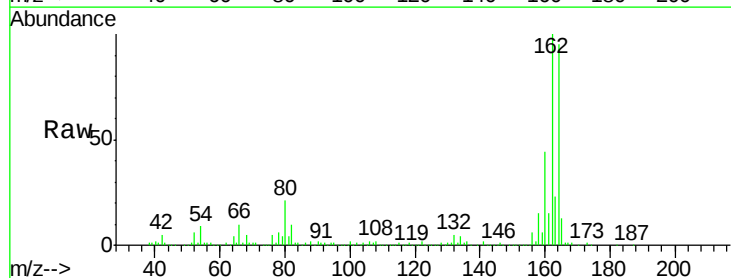
Concen: 20.00 ng

RT: 9.66 min Scan# 706

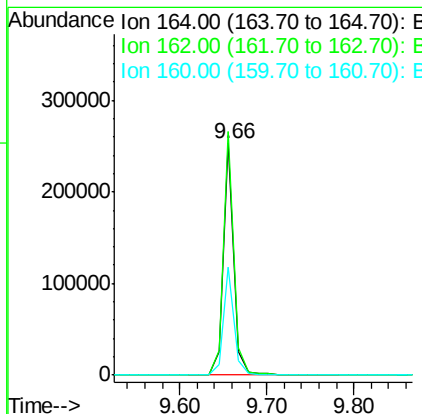
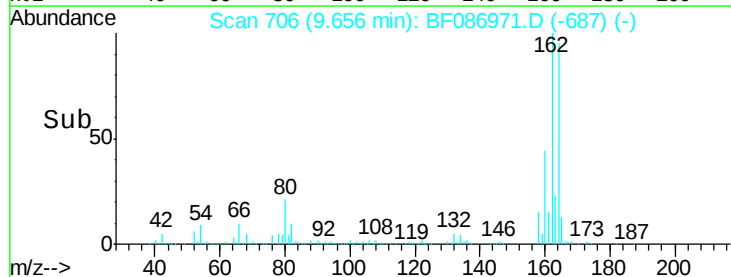
Delta R.T. -0.08 min

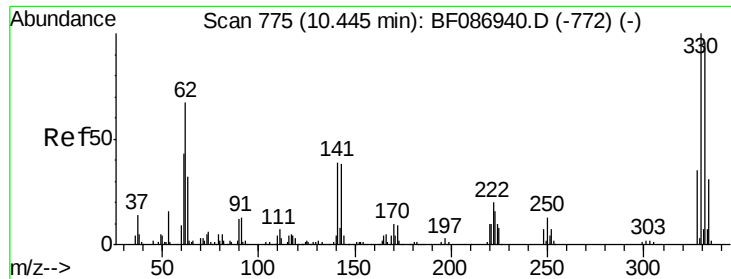
Lab File: BF086971.D

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Tgt Ion:	164	Resp:	214813
Ion Ratio	Lower	Upper	
164	100		
162	105.1	82.8	124.2
160	46.7	36.9	55.3





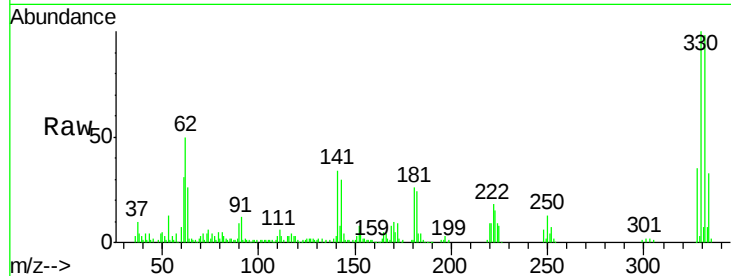
#41
 2,4,6-Tribromophenol
 Concen: 38.53 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.08 min
 Lab File: BF086971.D
 Acq: 13 May 2016 12:58

Instrument :
 BNA_F
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 CH-STA-1772-00(0-2)DL

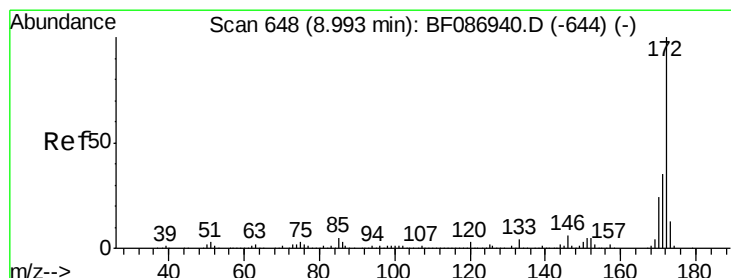
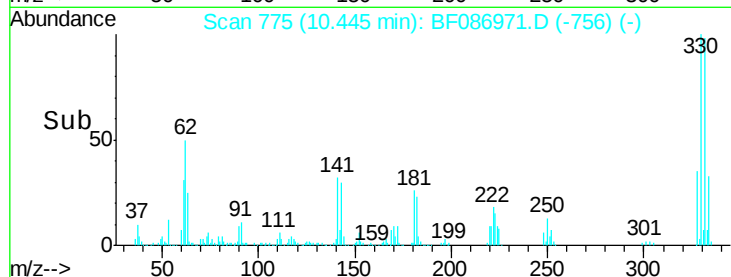
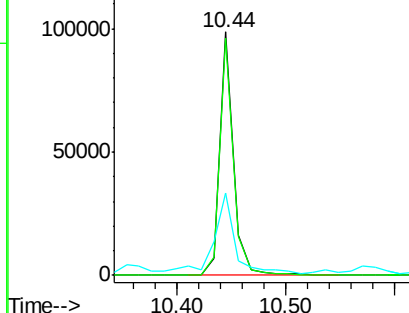
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	87616		
332	97.7	79.0	118.4	
141	49.5	31.2	46.8#	

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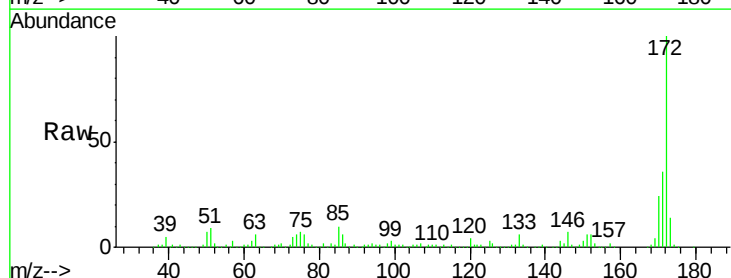


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

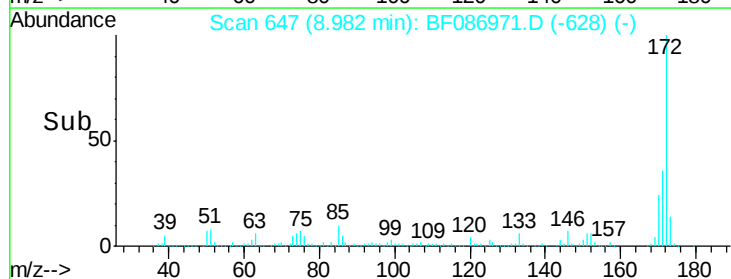
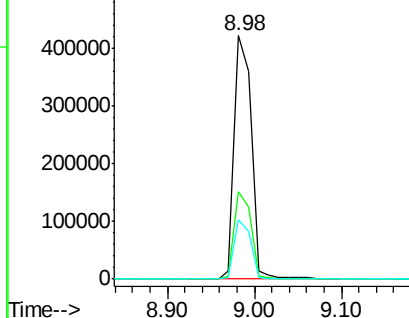


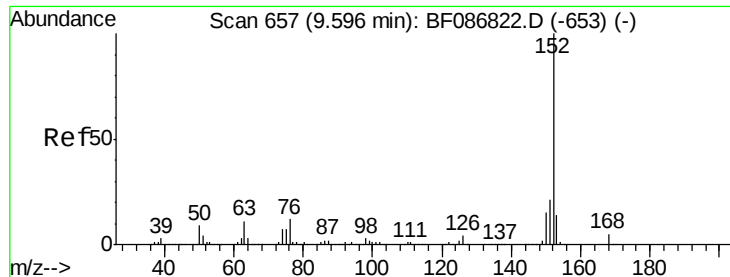
#44
 2-Fluorobiphenyl
 Concen: 44.54 ng
 RT: 8.98 min Scan# 647
 Delta R.T. -0.08 min
 Lab File: BF086971.D
 Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	569288		
171	35.9	29.0	43.6	
170	24.2	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





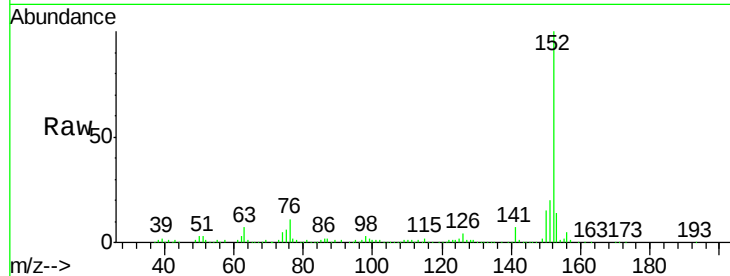
#48
Acenaphthylene
Concen: 12.48 ng
RT: 9.52 min Scan# 694
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
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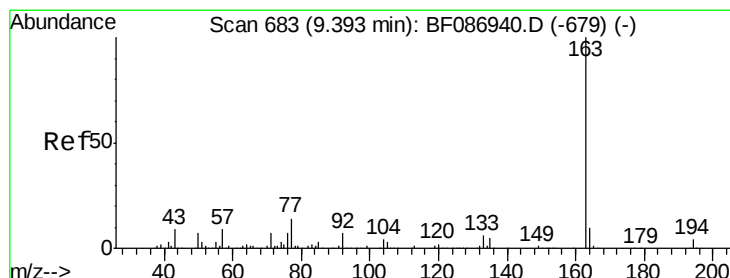
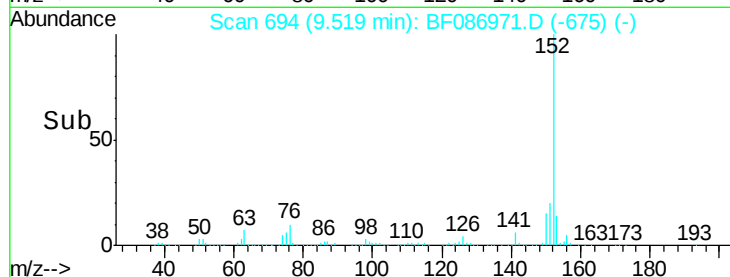
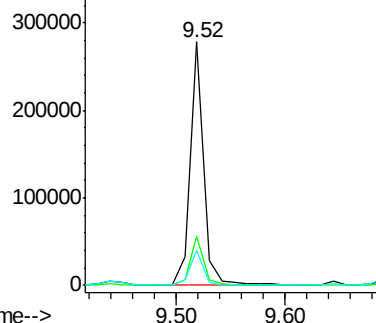
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	245783		
151	20.1	16.8	25.2	
153	14.4	10.9	16.3	

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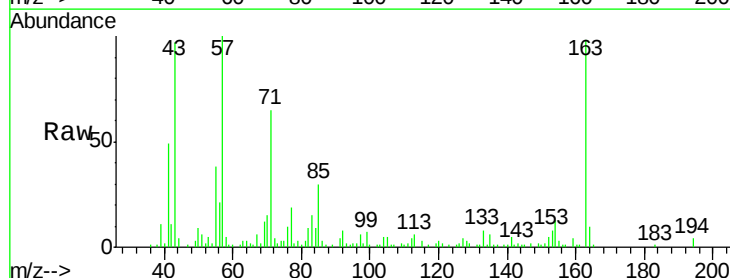


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

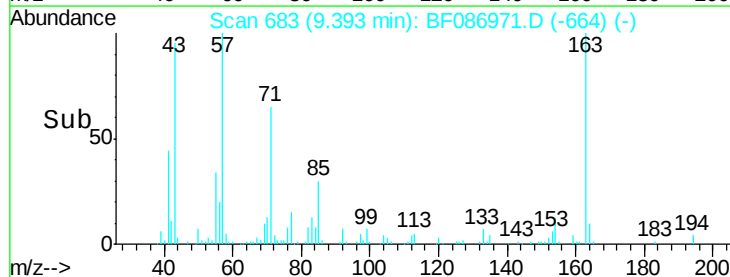
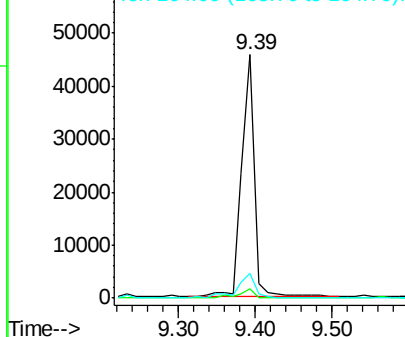


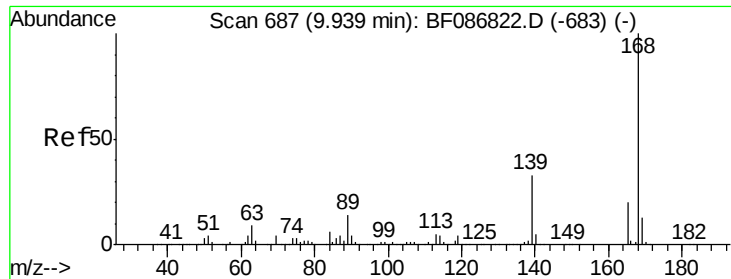
#49
Dimethylphthalate
Concen: 3.13 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	51341		
194	3.8	2.6	4.0	
164	10.0	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

Dibenzofuran

Concen: 4.10 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.08 min

Lab File: BF086971.D

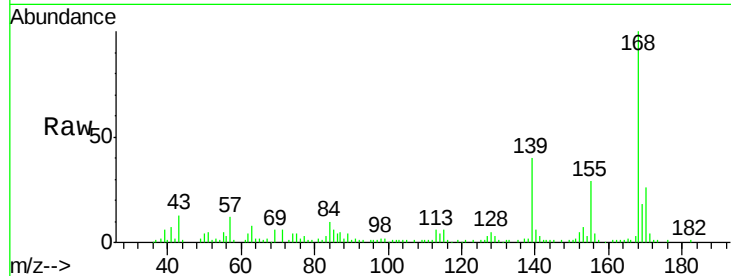
Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

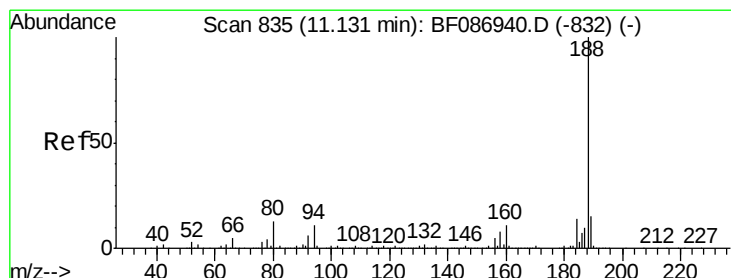
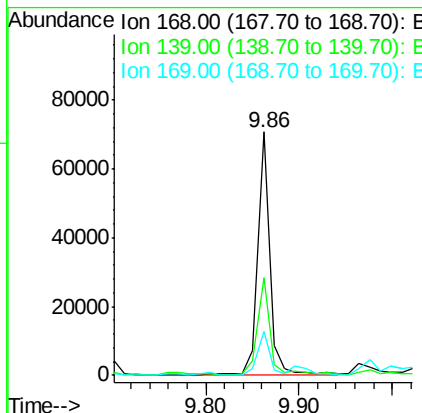
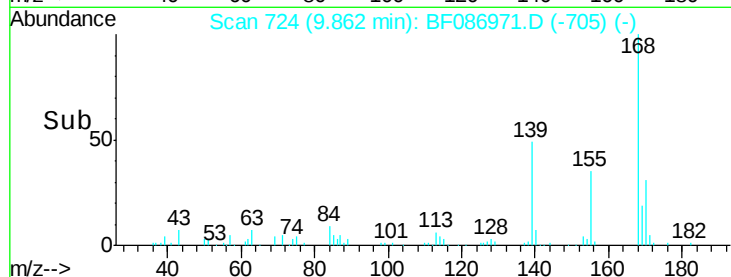
CH-STA-1772-00(0-2)DL



Tgt Ion:	168	Resp:	64504
Ion Ratio	Lower	Upper	
168	100		
139	40.4	31.4	47.0
169	18.1	10.7	16.1#

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#63

Phenanthrene-d10

Concen: 20.00 ng

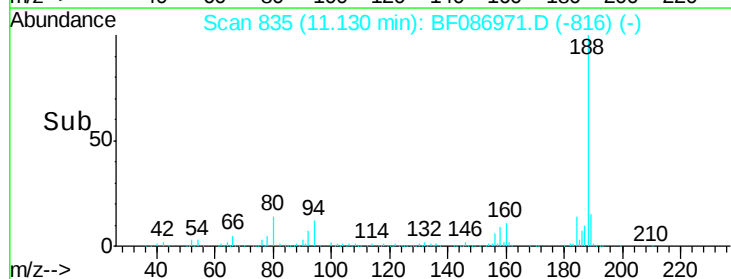
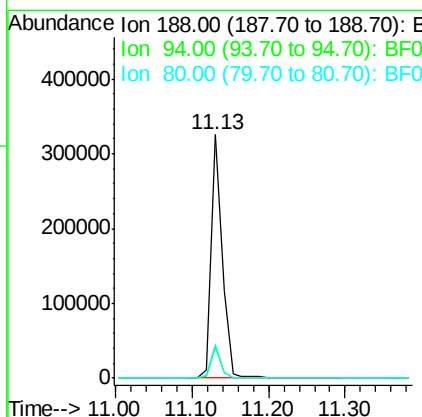
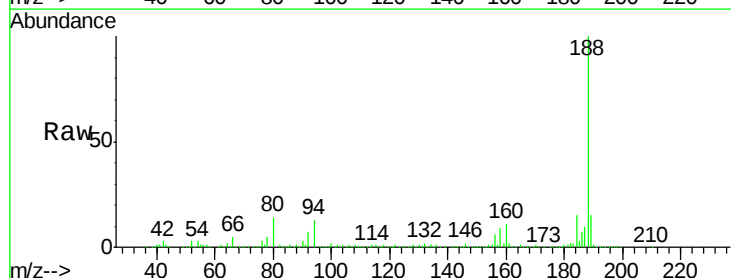
RT: 11.13 min Scan# 835

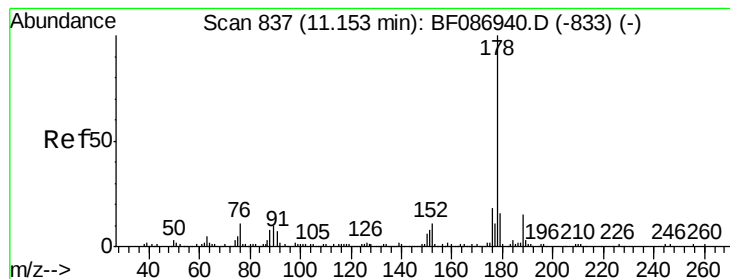
Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	188	Resp:	323553
Ion Ratio	Lower	Upper	
188	100		
94	12.6	6.8	10.2#
80	14.0	7.1	10.7#





#70

Phenanthrene

Concen: 12.54 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Instrument :

BNA_F

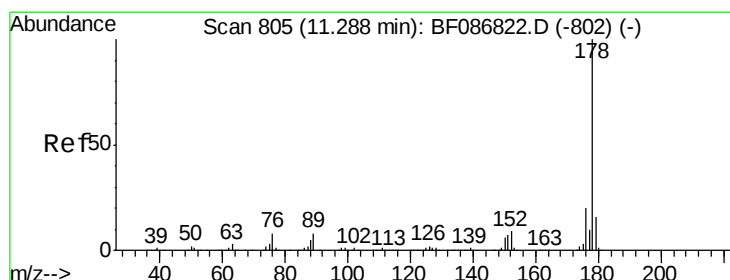
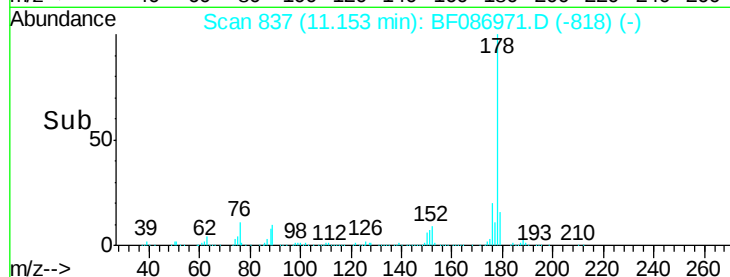
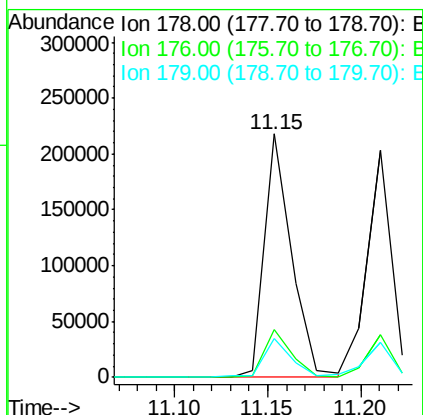
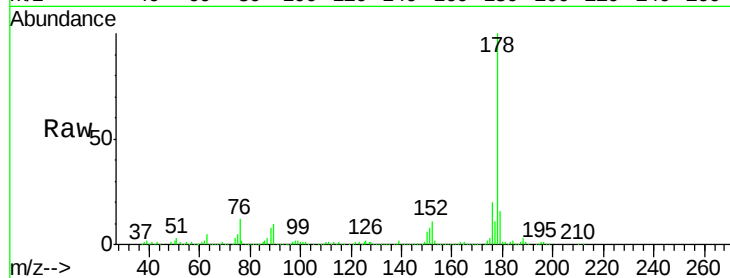
ClientSampleId :

CH-STA-1772-00(0-2)DL

Tgt Ion:	178	Resp:	216603
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.0	24.0
179	15.9	12.6	18.8

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#71

Anthracene

Concen: 10.67 ng

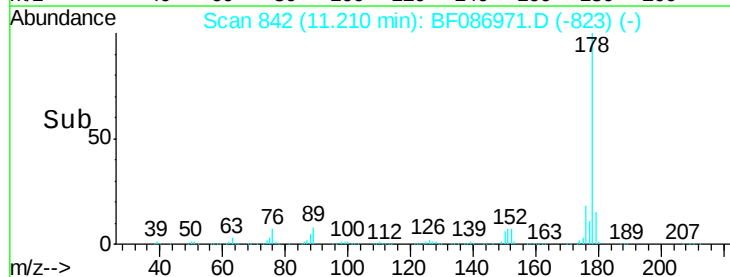
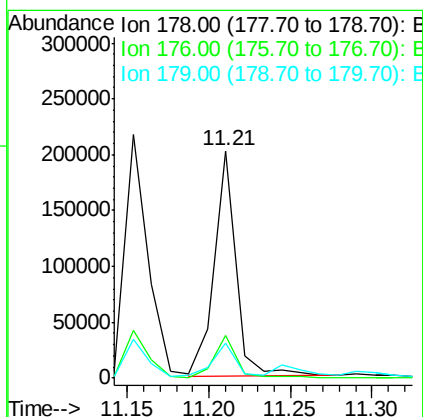
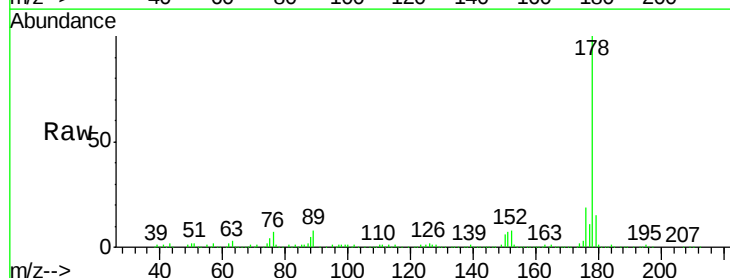
RT: 11.21 min Scan# 842

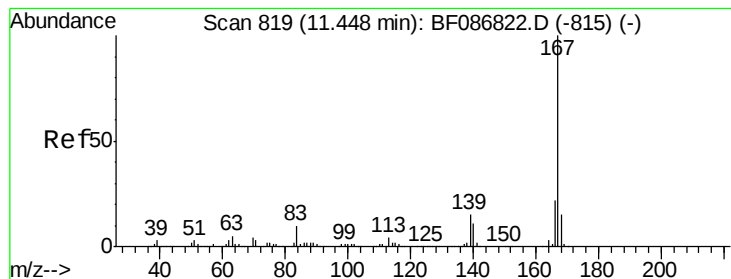
Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	178	Resp:	188491
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.6	23.4
179	15.4	12.7	19.1





#72

Carbazole

Concen: 4.82 ng

RT: 11.37 min Scan# 856

Delta R.T. -0.08 min

Lab File: BF086971.D

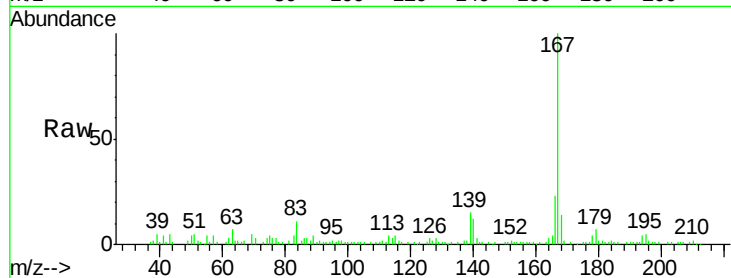
Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

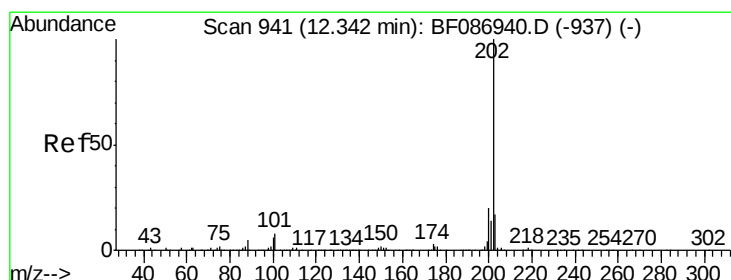
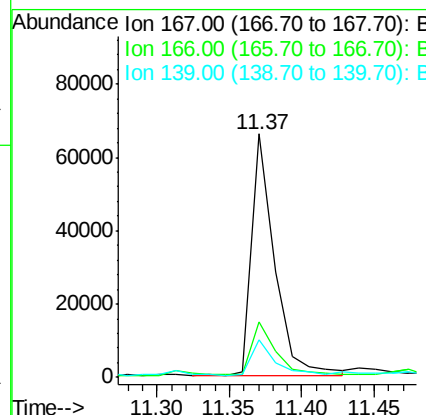
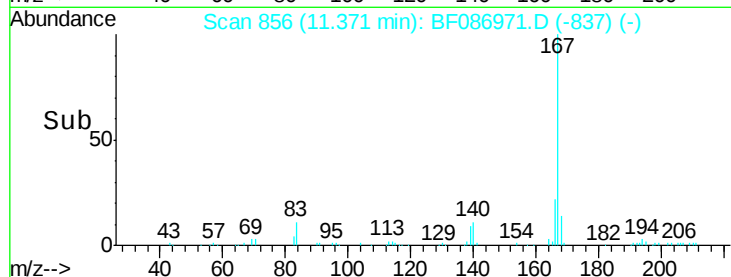
CH-STA-1772-00(0-2)DL



Tgt Ion:	167	Resp:	73164
Ion Ratio	Lower	Upper	
167	100		
166	22.6	17.7	26.5
139	15.2	10.8	16.2

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#74

Fluoranthene

Concen: 44.31 ng

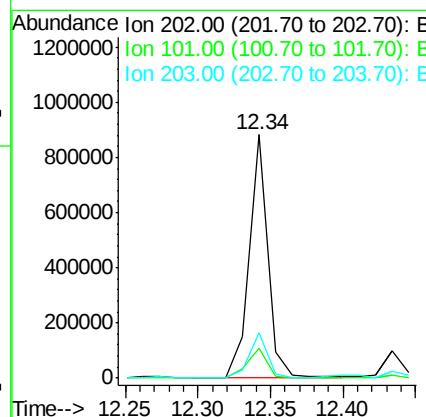
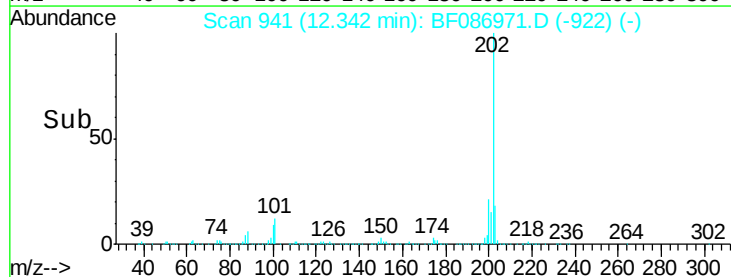
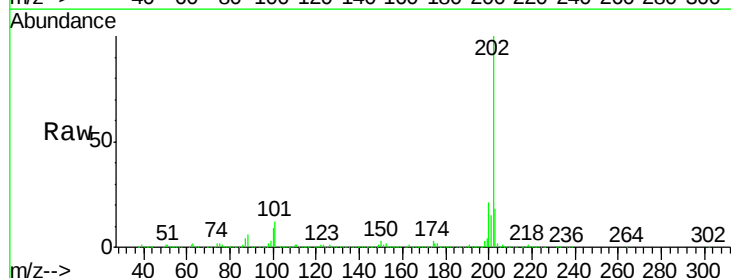
RT: 12.34 min Scan# 941

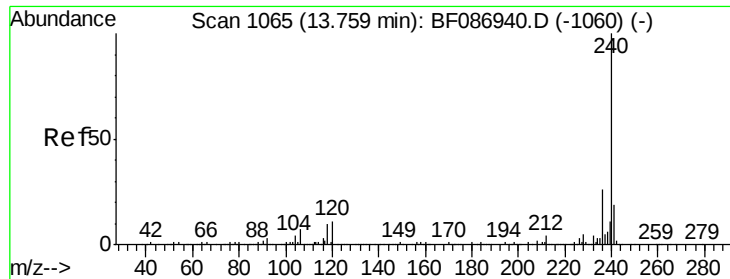
Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	202	Resp:	786908
Ion Ratio	Lower	Upper	
202	100		
101	12.3	0.0	35.4
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF086971.D

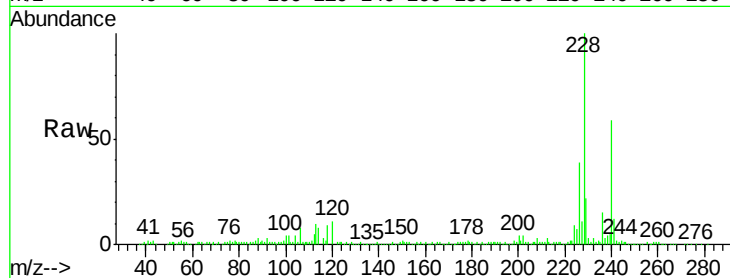
Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

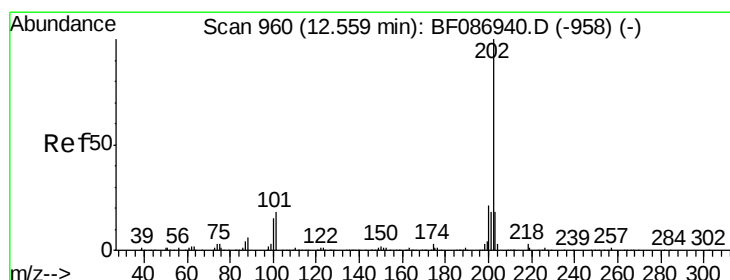
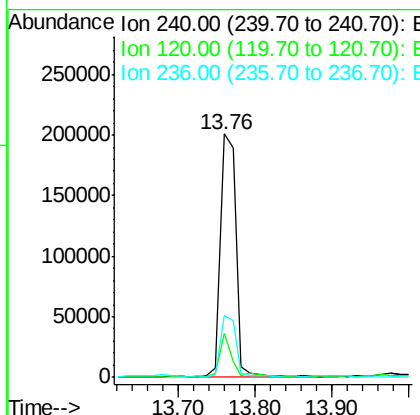
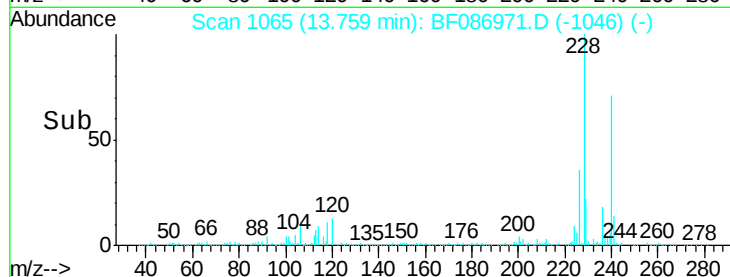
CH-STA-1772-00(0-2)DL



Tgt Ion:	240	Resp:	282337
Ion Ratio	Lower	Upper	
240	100		
120	17.9	11.2	16.8#
236	25.6	21.2	31.8

Manual Integrations
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#77

Pyrene

Concen: 36.06 ng

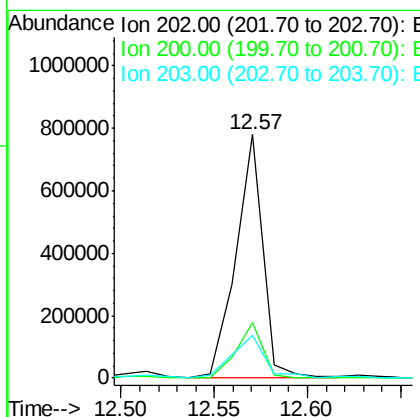
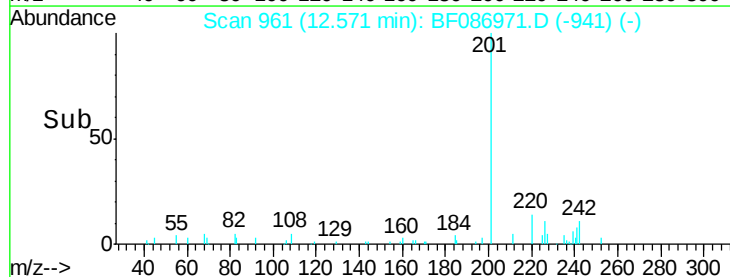
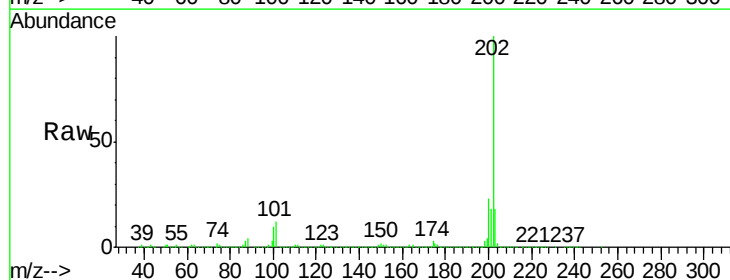
RT: 12.57 min Scan# 961

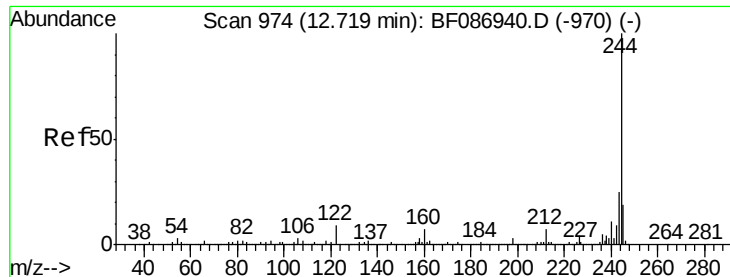
Delta R.T. -0.07 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	202	Resp:	779375
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.7	26.5
203	17.7	14.2	21.4





#78

Terphenyl-d14

Concen: 28.37 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Instrument :

BNA_F

ClientSampleId :

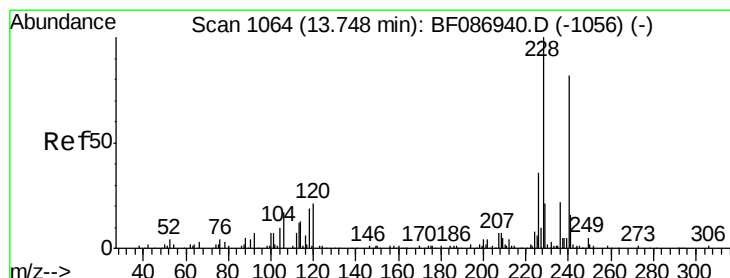
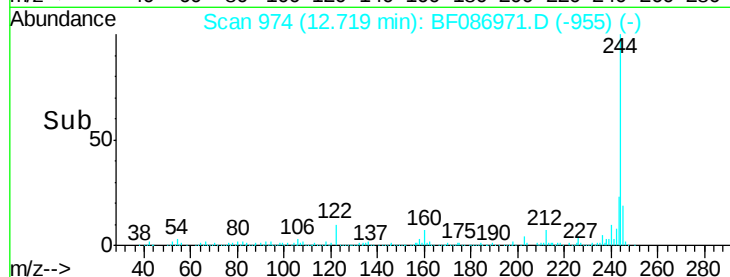
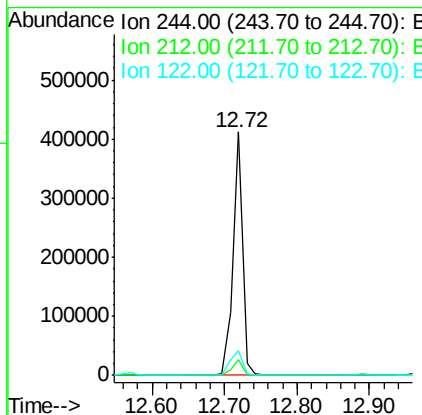
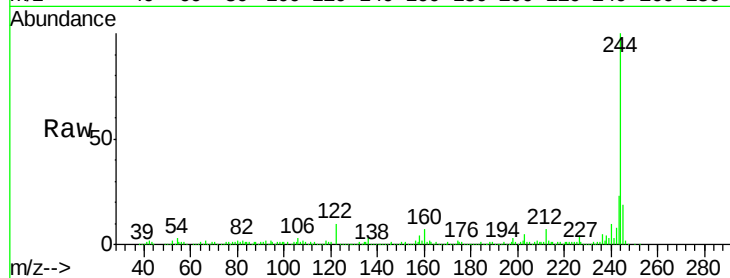
CH-STA-1772-00(0-2)DL

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Tgt Ion:	244	Resp:	377554
Ion Ratio	Lower	Upper	
244	100		
212	6.7	6.2	9.2
122	10.1	12.0	18.0#



#80

Benzo(a)anthracene

Concen: 33.29 ng m

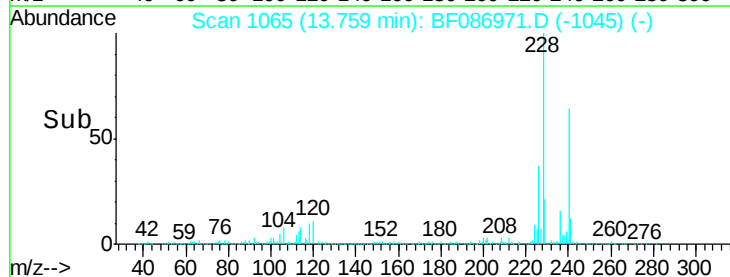
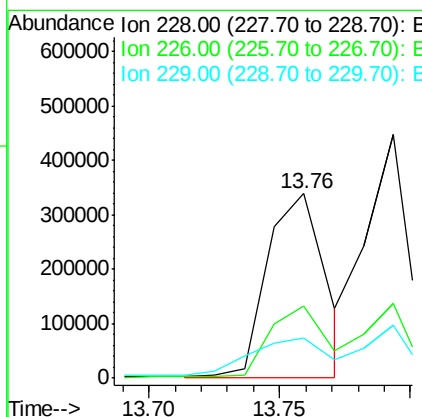
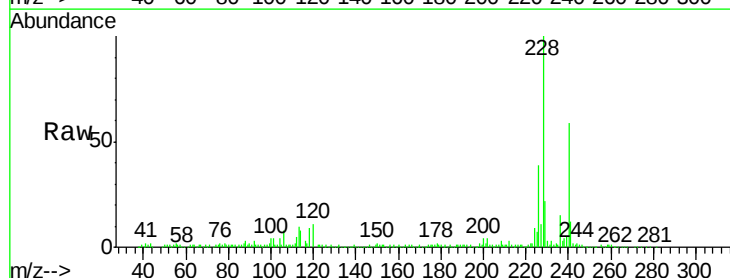
RT: 13.76 min Scan# 1065

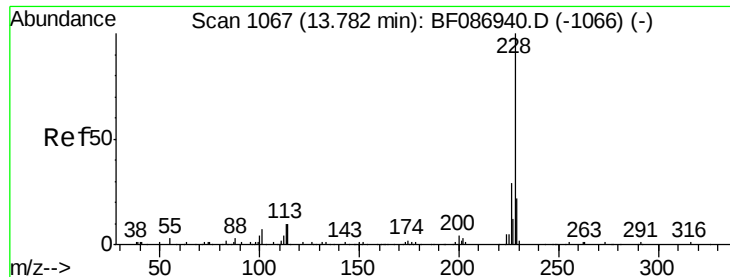
Delta R.T. -0.07 min

Lab File: BF086971.D

Acq: 13 May 2016 12:58

Tgt Ion:	228	Resp:	527648
Ion Ratio	Lower	Upper	
228	100		
226	39.0	22.5	33.7#
229	22.0	16.6	25.0





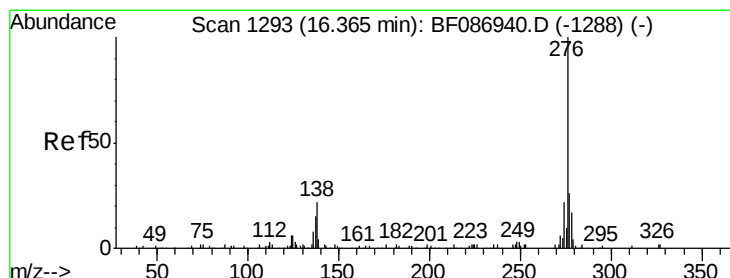
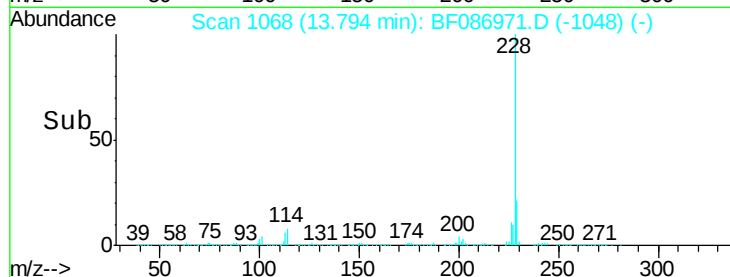
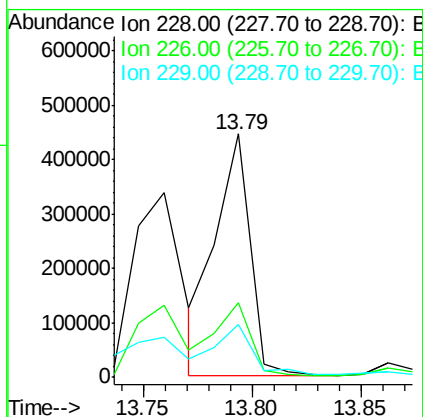
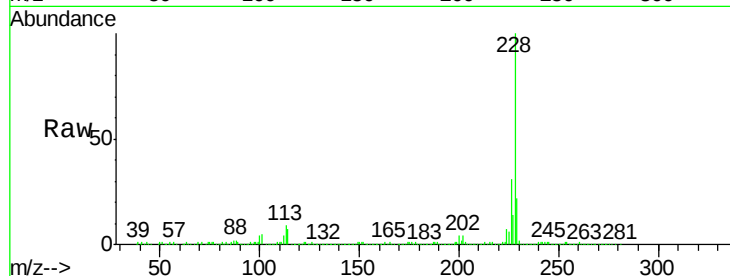
#82
Chrysene
Concen: 30.69 ng
RT: 13.79 min Scan# 1068
Delta R.T. -0.07 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.8	24.4	36.6
229	21.6	15.8	23.8

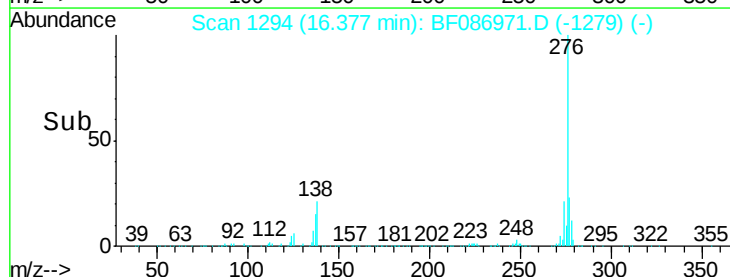
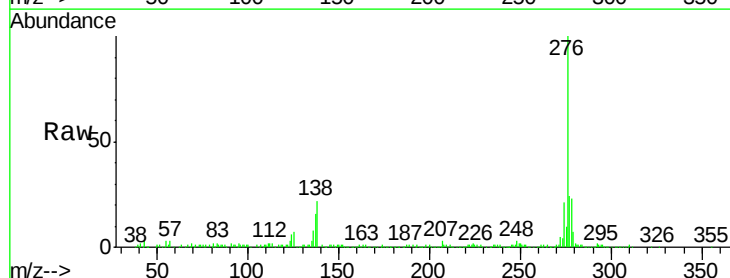
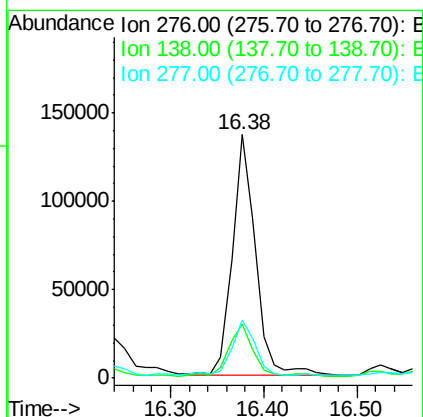
Manual Integrations
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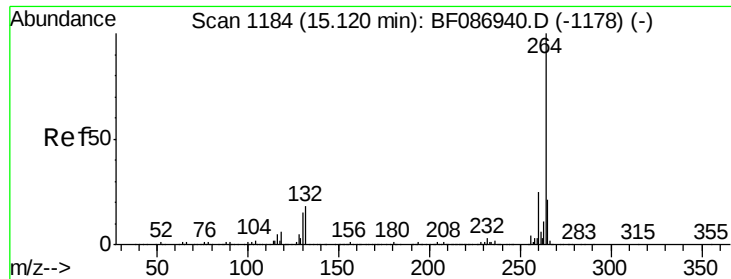
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#85
Indeno(1,2,3-cd)pyrene
Concen: 17.44 ng
RT: 16.38 min Scan# 1294
Delta R.T. -0.12 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	22.9	25.6	38.4#
277	25.3	20.5	30.7





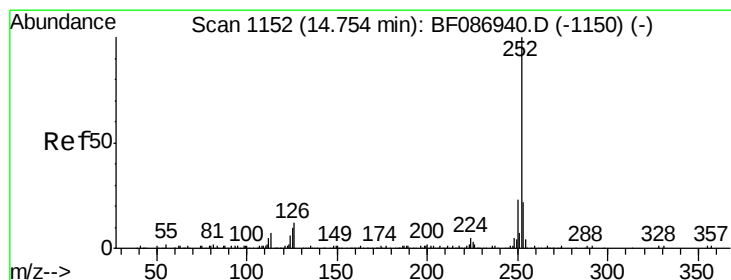
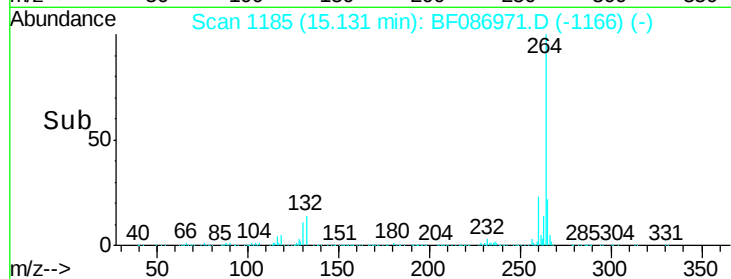
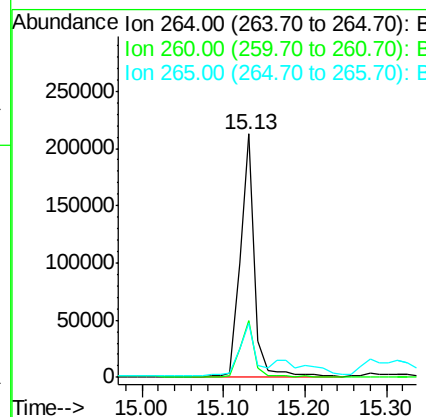
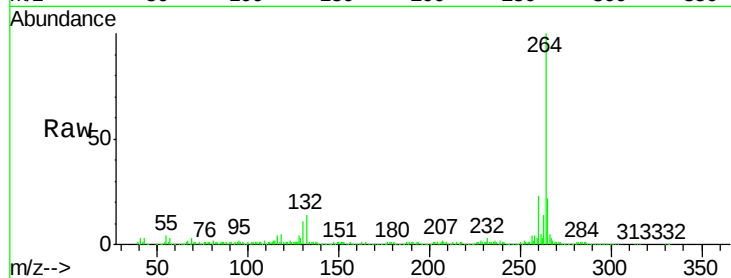
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.13 min Scan# 1185
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)DL

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	254214		
260	23.1	19.5	29.3	
265	22.2	17.3	25.9	

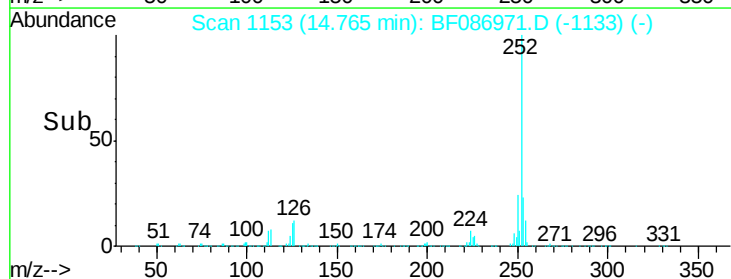
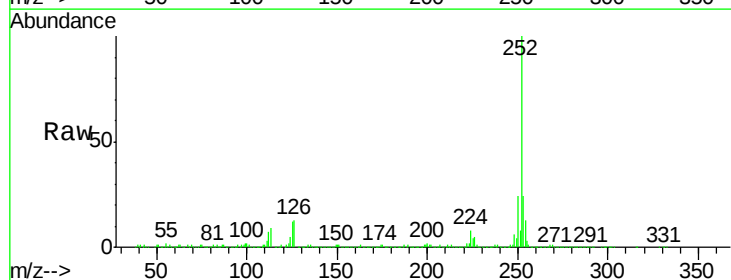
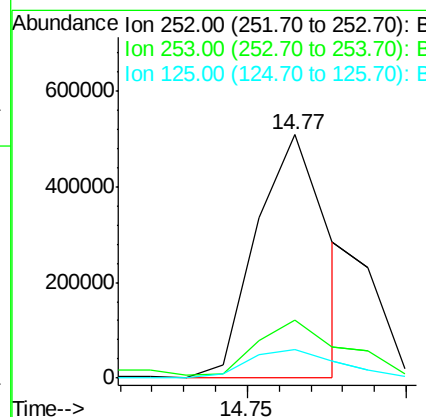
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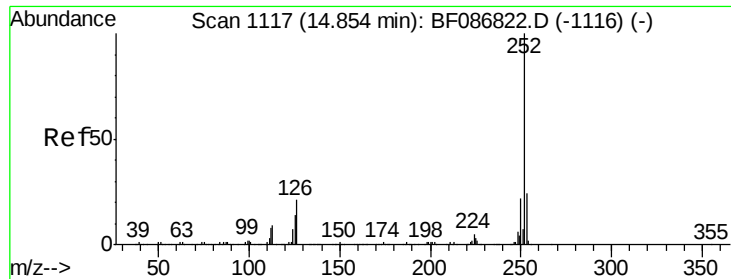
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#87
Benzo(b)fluoranthene
Concen: 47.99 ng m
RT: 14.77 min Scan# 1153
Delta R.T. -0.07 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	792886		
253	23.7	17.8	26.6	
125	11.7	11.4	17.0	





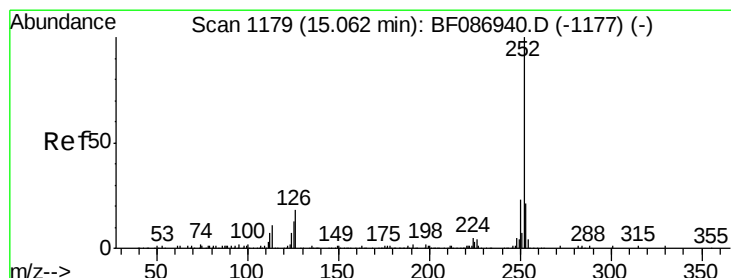
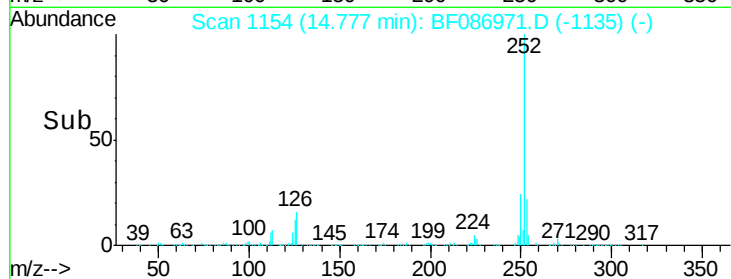
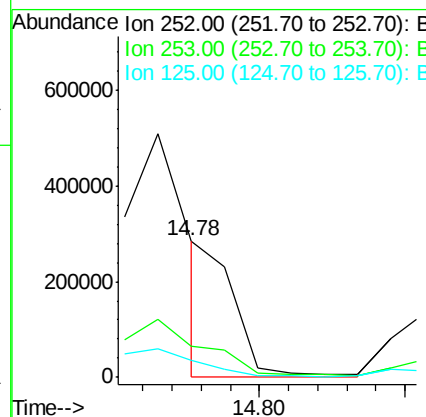
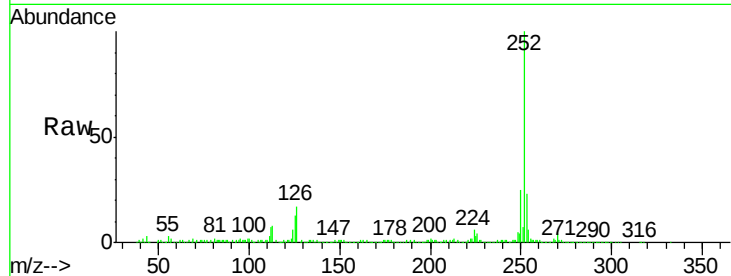
#88
Benzo(k)fluoranthene
Concen: 13.96 ng m
RT: 14.78 min Scan# 1154
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)DL

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	188851		
253	22.7	17.8	26.6	
125	12.6	9.1	13.7	

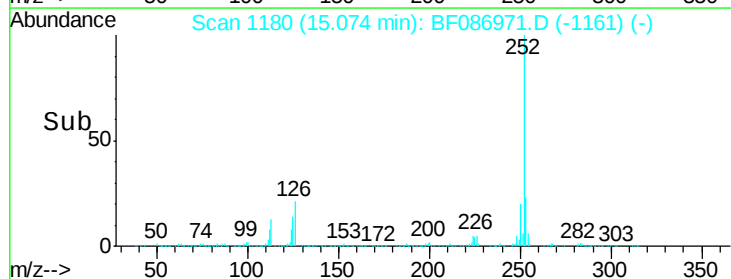
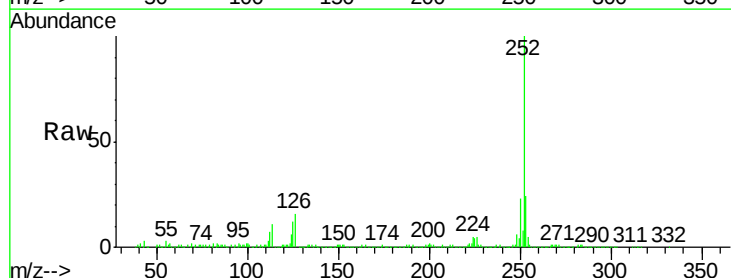
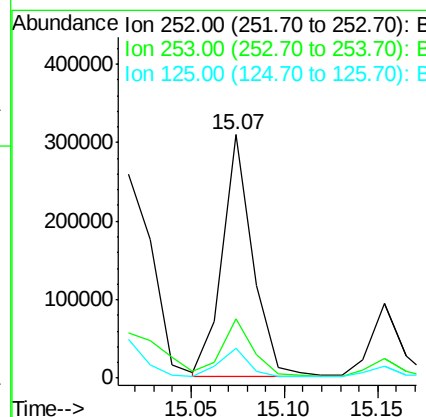
Manual Integrations
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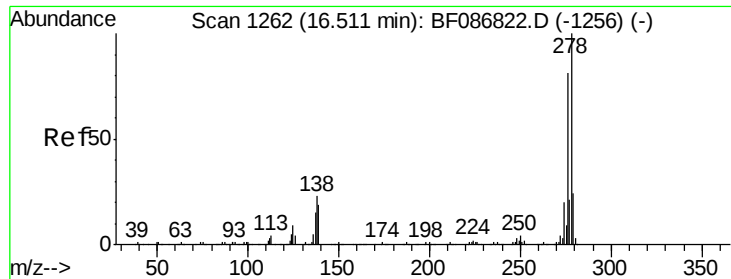
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#89
Benzo(a)pyrene
Concen: 24.55 ng
RT: 15.07 min Scan# 1180
Delta R.T. -0.08 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	349902		
253	24.4	17.2	25.8	
125	12.0	9.0	13.6	





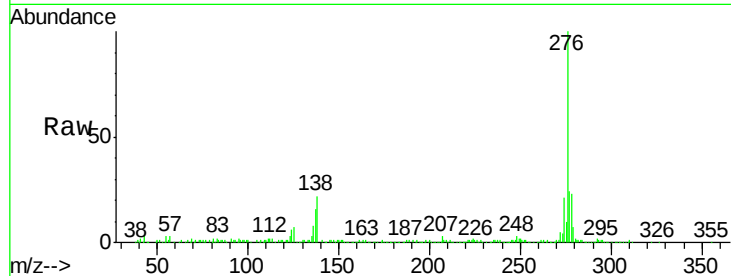
#90
Dibenzo(a,h)anthracene
Concen: 5.21 ng m
RT: 16.38 min Scan# 1294
Delta R.T. -0.13 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Instrument :
BNA_F
ClientSampleId :
CH-STA-1772-00(0-2)DL

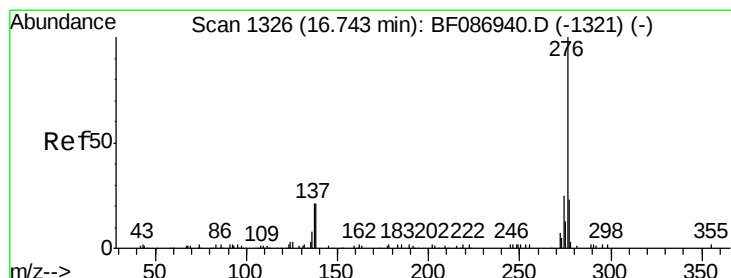
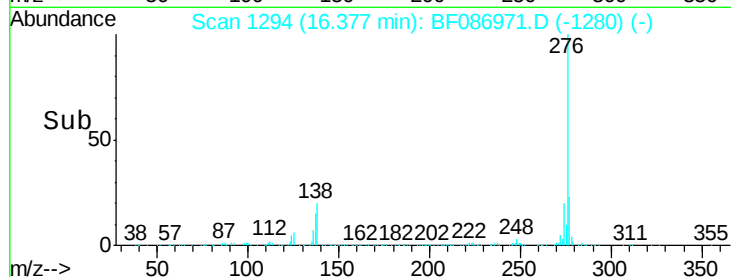
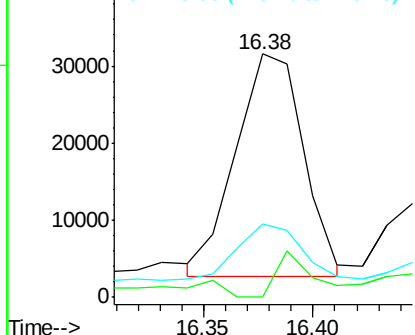
Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	30.0	19.6	29.4#

Manual Integrations
APPROVED

sohil
5/13/2016 8:05:44 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 16.29 ng
RT: 16.75 min Scan# 1327
Delta R.T. -0.13 min
Lab File: BF086971.D
Acq: 13 May 2016 12:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.6	29.4
138	21.6	23.6	35.4#

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

