

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
 Data File : BF084924.D
 Acq On : 6 Feb 2016 20:59
 Operator : SJ/IZ
 Sample : H1320-08DL 2X
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B012(5-7)DL

Manual Integrations
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 2/8/2016 3:04:37 PM

Quant Time: Feb 08 03:22:17 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	160448	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	644685	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	279196	20.00	ng	-0.03
63) Phenanthrene-d10	11.17	188	434683	20.00	ng	-0.03
75) Chrysene-d12	13.80	240	296617	20.00	ng	-0.03
86) Perylene-d12	15.17	264	318817	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	784433	76.15	ng	-0.02
7) Phenol-d6	6.32	99	998003	78.15	ng	-0.02
23) Nitrobenzene-d5	7.23	82	626574	54.75	ng	-0.03
41) 2,4,6-Tribromophenol	10.49	330	208209	71.49	ng	-0.03
44) 2-Fluorobiphenyl	9.02	172	882848	45.81	ng	-0.03
78) Terphenyl-d14	12.76	244	605844	46.28	ng	-0.03
Target Compounds						Qvalue
48) Acenaphthylene	9.55	152	98372	3.53	ng	97
49) Dimethylphthalate	9.42	163	179885	8.46	ng	# 90
51) Acenaphthene	9.72	154	59152	3.26	ng	96
54) Dibenzofuran	9.90	168	77696	3.51	ng	93
57) Fluorene	10.24	166	110692	5.98	ng	99
70) Phenanthrene	11.20	178	1020890	42.34	ng	98
71) Anthracene	11.25	178	311814	12.84	ng	98
72) Carbazole	11.41	167	54308	2.56	ng	97
74) Fluoranthene	12.38	202	1346603	55.19	ng	99
77) Pyrene	12.61	202	1312639	57.80	ng	98
80) Benzo(a)anthracene	13.80	228	622901m	33.84	ng	
82) Chrysene	13.84	228	422364m	23.66	ng	
85) Indeno(1,2,3-cd)pyrene	16.45	276	318624	22.67	ng	94
87) Benzo(b)fluoranthene	14.81	252	710635m	33.17	ng	
88) Benzo(k)fluoranthene	14.82	252	182196m	10.29	ng	
89) Benzo(a)pyrene	15.13	252	520958	28.54	ng	97
90) Dibenzo(a,h)anthracene	16.45	278	62735m	4.08	ng	
91) Benzo(g,h,i)perylene	16.84	276	288930	18.67	ng	96

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

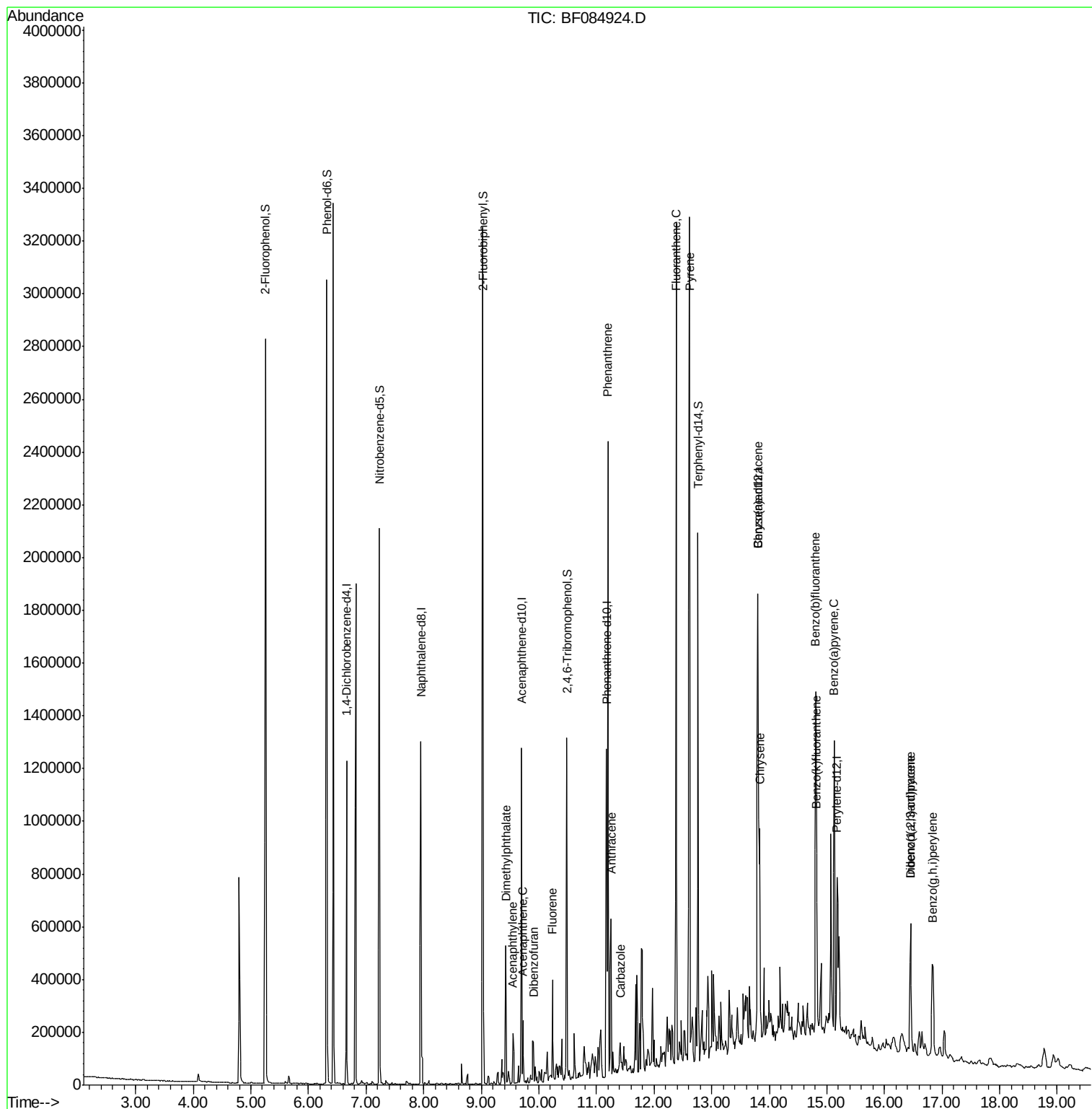
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020616\
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ALS Vial : 66 Sample Multiplier: 1

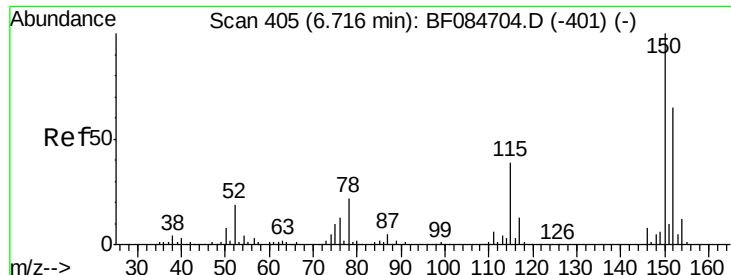
Instrument :
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ClientSampleId :
S4-B012(5-7)DL

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#1

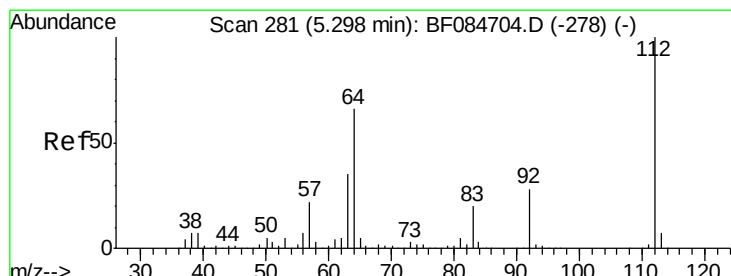
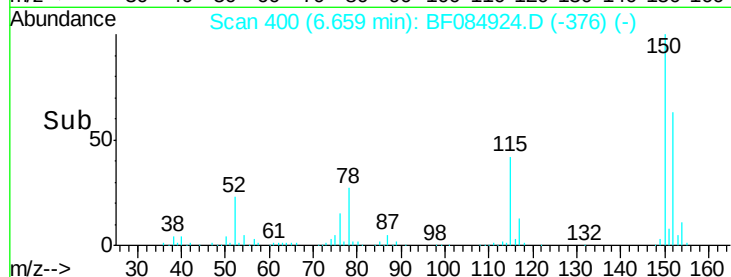
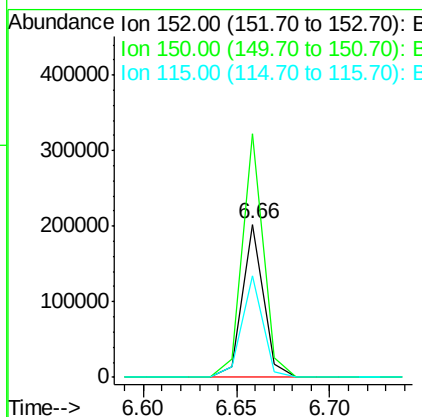
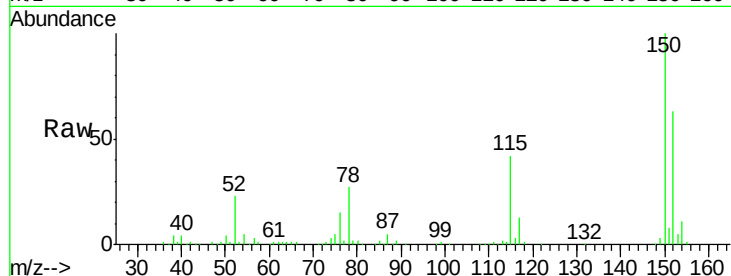
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.66 min Scan# 400
 Delta R.T. -0.02 min
 Lab File: BF084924.D
 Acq: 6 Feb 2016 20:59

Instrument :
 BNA_F
 ClientSampleId :
 S4-B012(5-7)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	123.0	184.4
115	66.7	51.4	77.2

Manual Integrations
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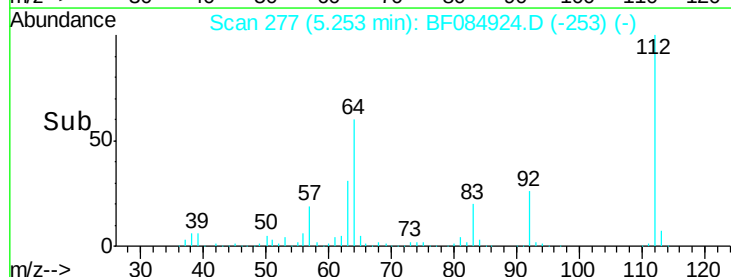
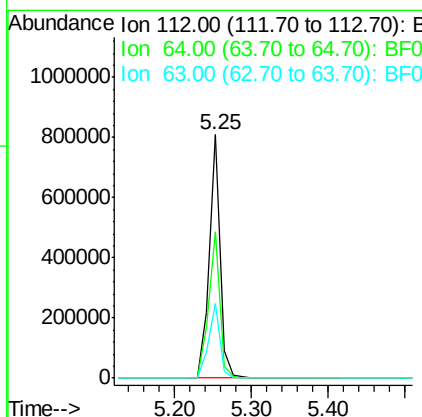
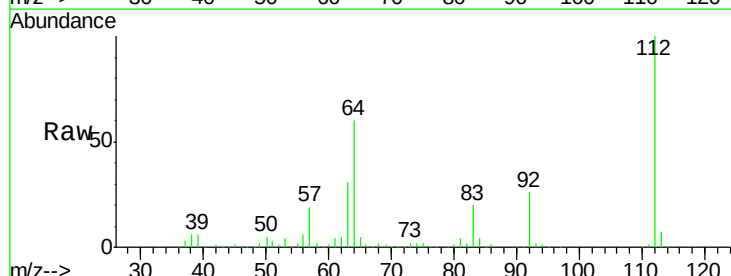
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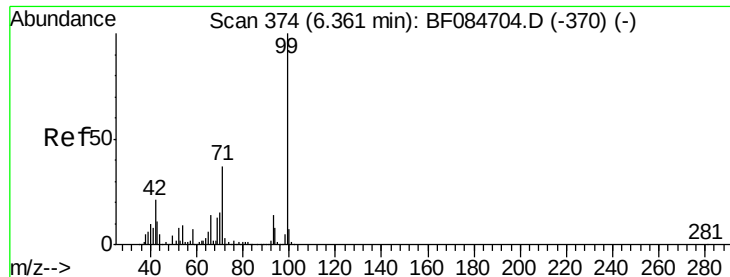


#5

2-Fluorophenol
 Concen: 76.15 ng
 RT: 5.25 min Scan# 277
 Delta R.T. -0.02 min
 Lab File: BF084924.D
 Acq: 6 Feb 2016 20:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.9	36.6	55.0#
63	30.7	19.4	29.0#





#7

Phenol-d6

Concen: 78.15 ng

RT: 6.32 min Scan# 370

Delta R.T. -0.02 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

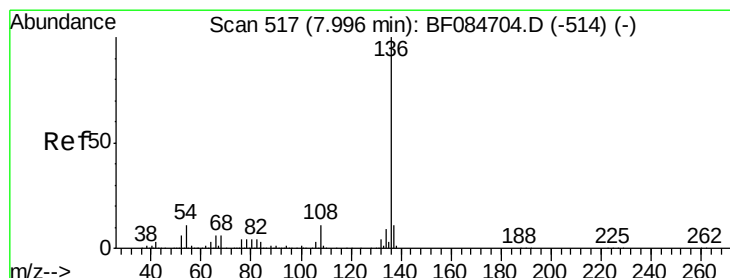
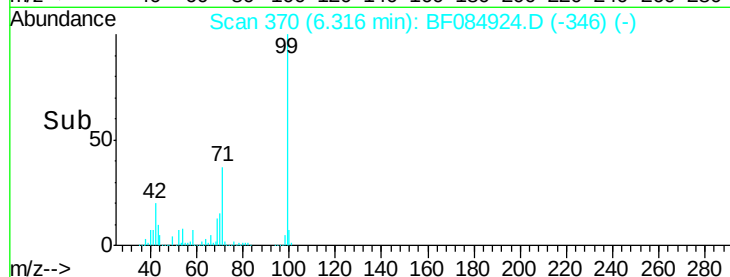
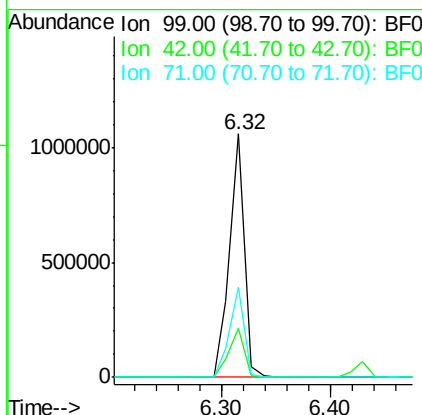
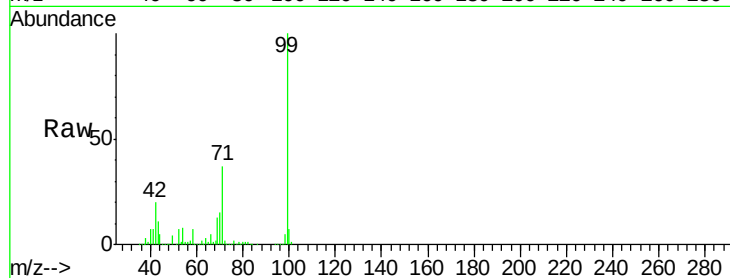
ClientSampleId :

S4-B012(5-7)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		998003		
42	20.3	12.8	19.2#		
71	37.0	30.9	46.3		

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#21

Naphthalene-d8

Concen: 20.00 ng

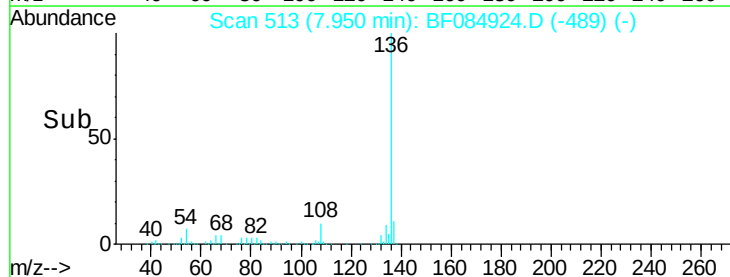
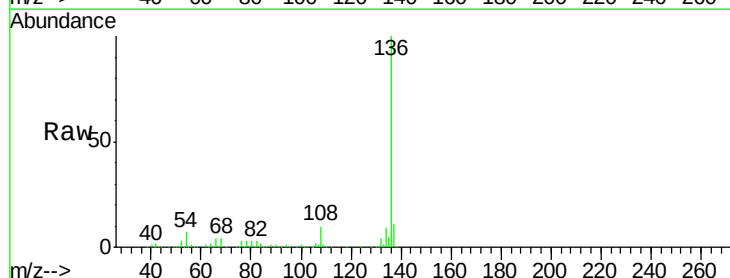
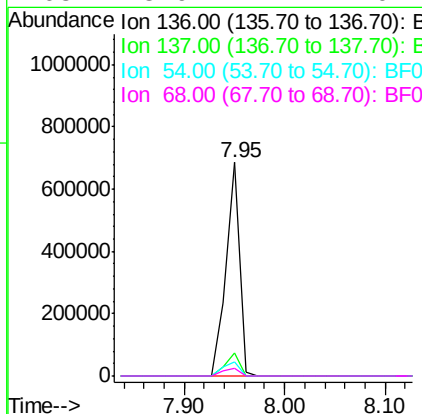
RT: 7.95 min Scan# 513

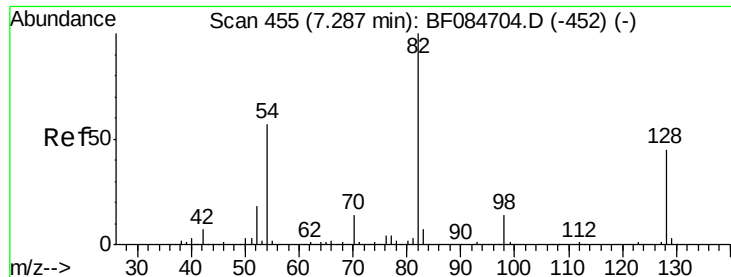
Delta R.T. -0.02 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		644685		
137	10.7	8.7	13.1		
54	6.5	5.8	8.8		
68	3.9	4.2	6.2#		





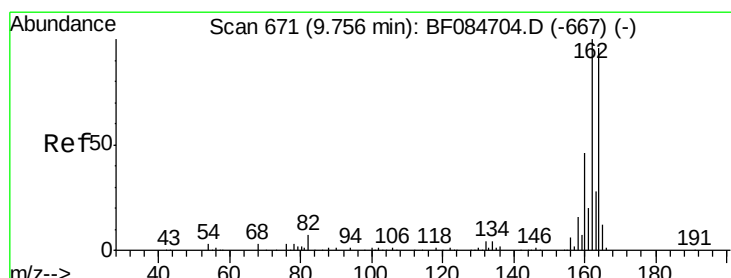
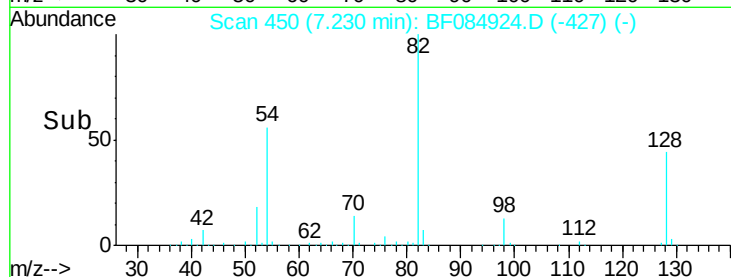
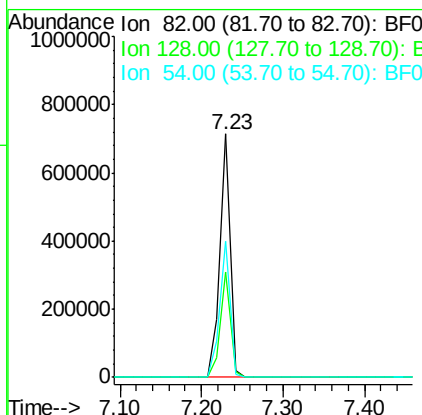
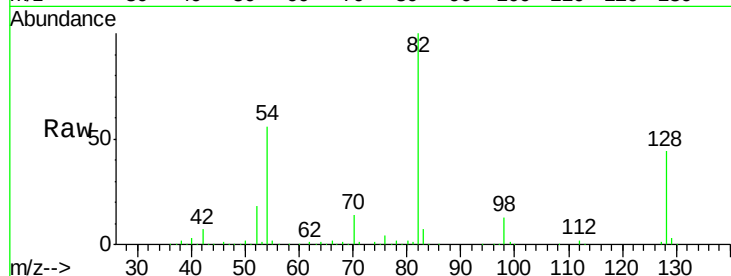
#23
 Nitrobenzene-d5
 Concen: 54.75 ng
 RT: 7.23 min Scan# 450
 Delta R.T. -0.03 min
 Lab File: BF084924.D
 Acq: 6 Feb 2016 20:59

Instrument :
 BNA_F
 ClientSampleId :
 S4-B012(5-7)DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	626574		
128	43.5		34.6	51.8
54	55.9		38.4	57.6

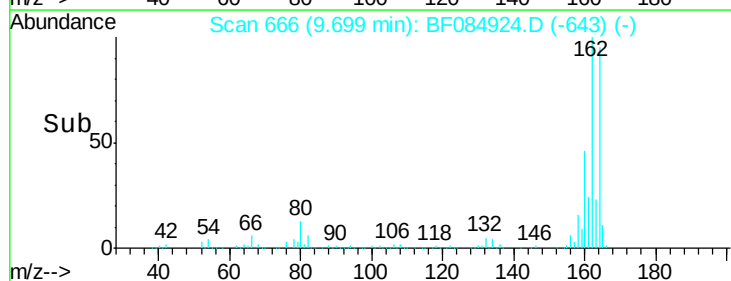
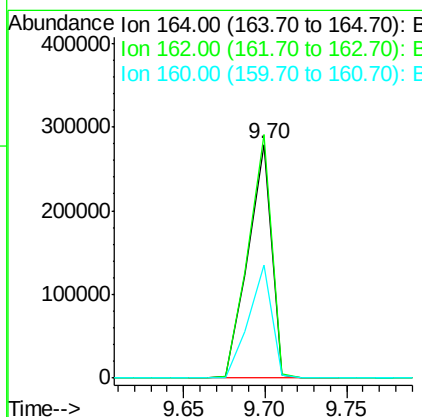
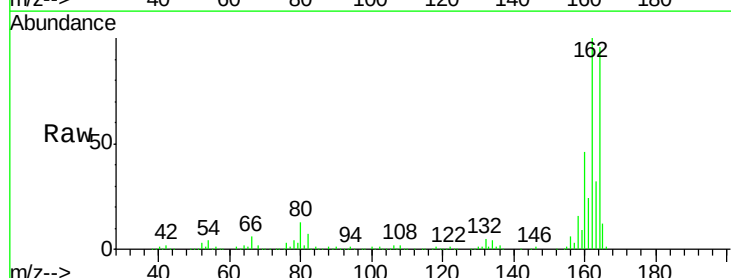
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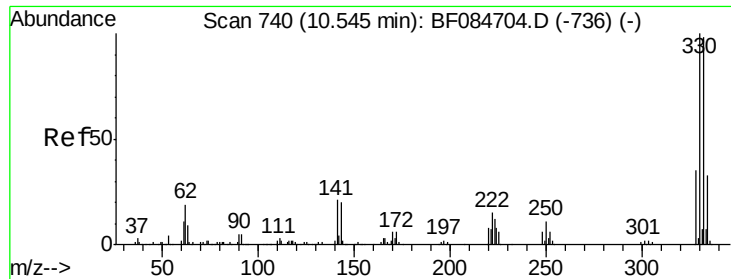
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 666
 Delta R.T. -0.03 min
 Lab File: BF084924.D
 Acq: 6 Feb 2016 20:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	279196		
162	104.2		85.1	127.7
160	48.3		37.5	56.3





#41

2,4,6-Tribromophenol

Concen: 71.49 ng

RT: 10.49 min Scan# 735

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

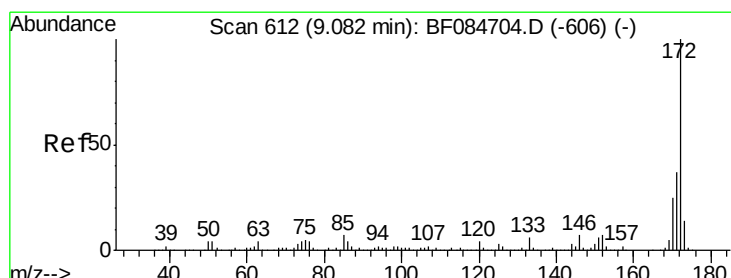
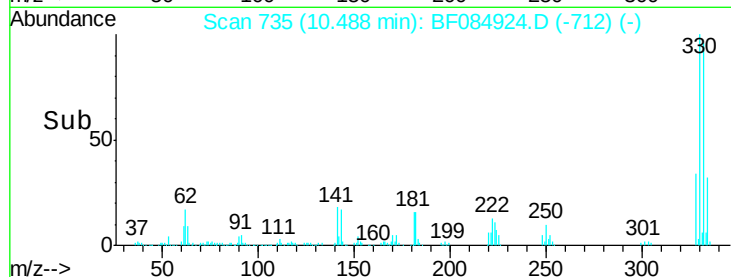
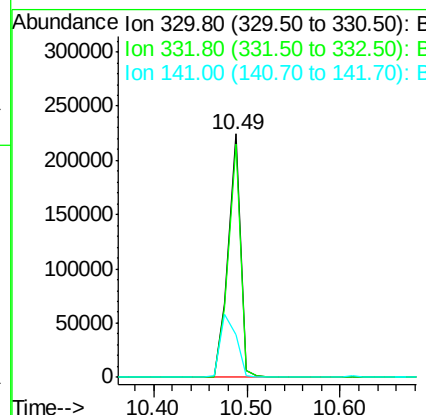
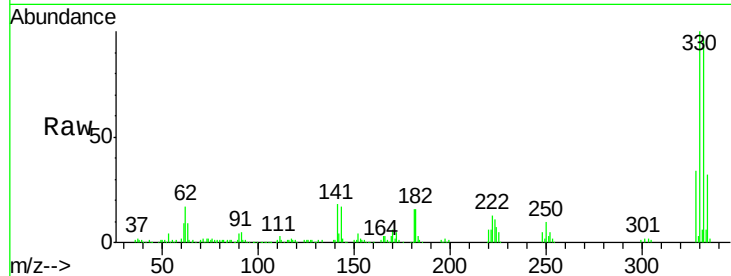
ClientSampleId :

S4-B012(5-7)DL

Tot Ion:	330	Resp:	208209
Ion Ratio	Lower	Upper	
330	100		
332	95.3	76.6	114.8
141	33.7	27.8	41.6

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#44

2-Fluorobiphenyl

Concen: 45.81 ng

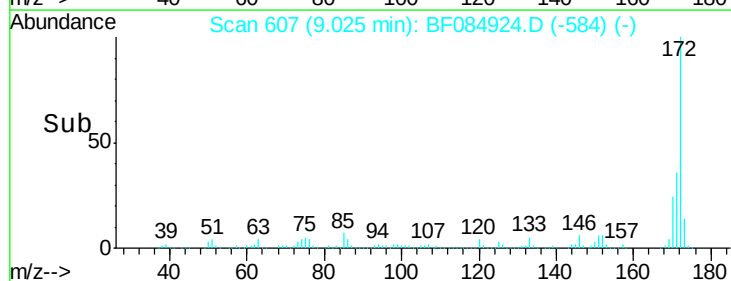
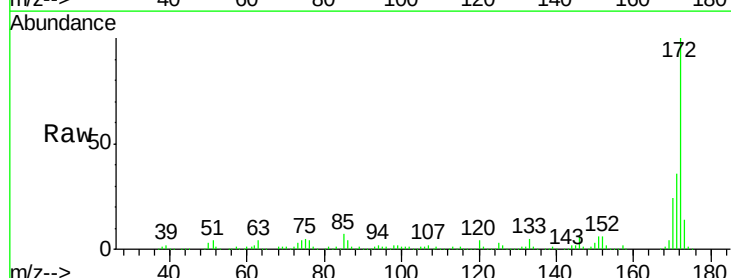
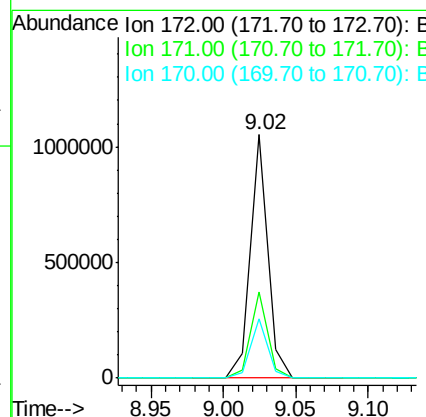
RT: 9.02 min Scan# 607

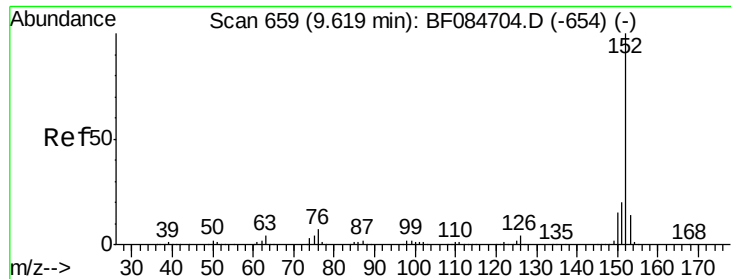
Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	172	Resp:	882848
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.9	43.3
170	24.3	18.6	27.8





#48

Acenaphthylene

Concen: 3.53 ng

RT: 9.55 min Scan# 653

Delta R.T. -0.05 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

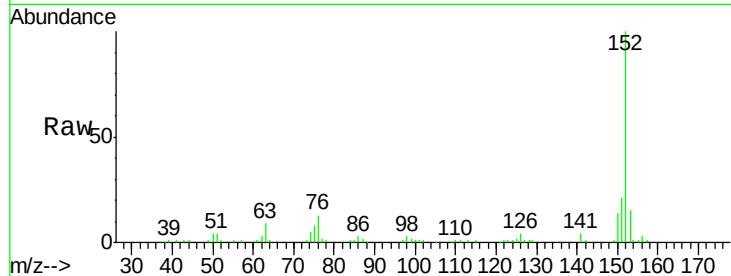
ClientSampleId :

S4-B012(5-7)DL

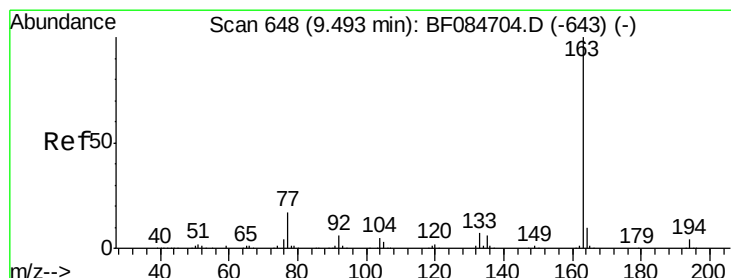
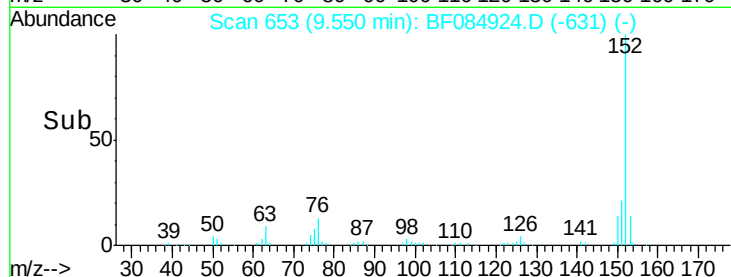
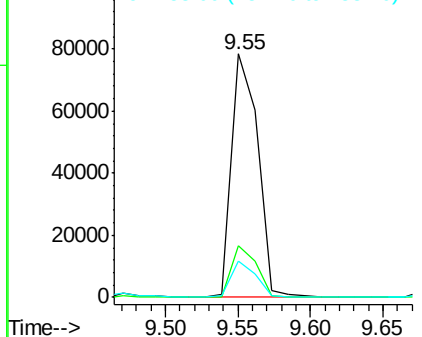
Tot Ion:	152	Resp:	98372
Ion Ratio	Lower	Upper	
152	100		
151	21.0	16.3	24.5
153	14.8	10.4	15.6

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



#49

Dimethylphthalate

Concen: 8.46 ng

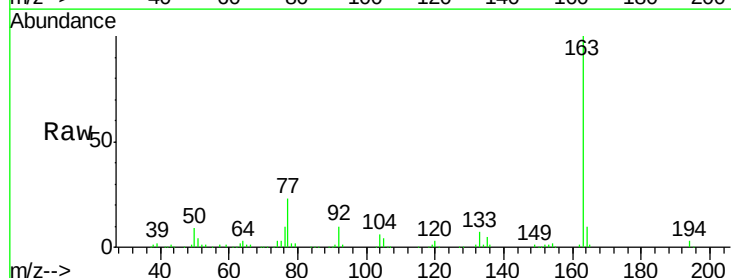
RT: 9.42 min Scan# 642

Delta R.T. -0.05 min

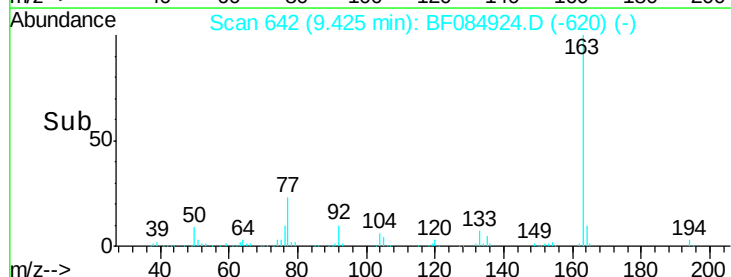
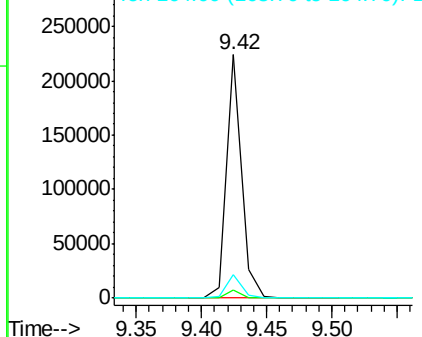
Lab File: BF084924.D

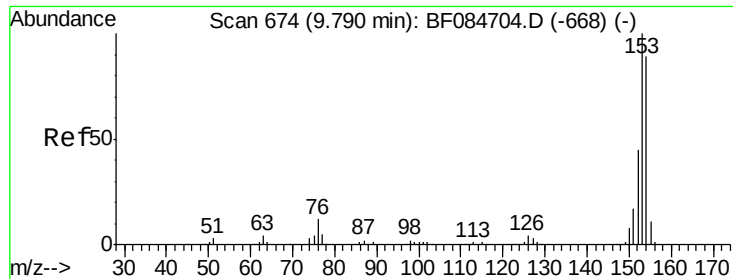
Acq: 6 Feb 2016 20:59

Tgt Ion:	163	Resp:	179885
Ion Ratio	Lower	Upper	
163	100		
194	3.2	8.0	12.0#
164	9.6	8.0	12.0



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





#51

Acenaphthene

Concen: 3.26 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.05 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

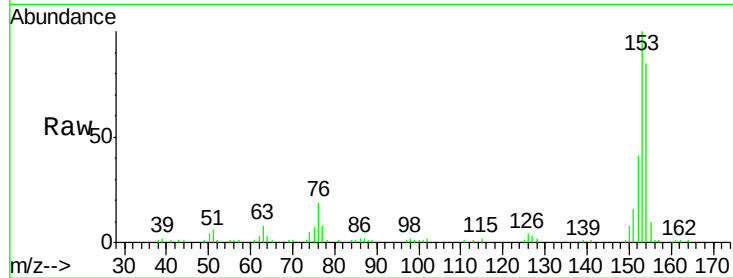
ClientSampleId :

S4-B012(5-7)DL

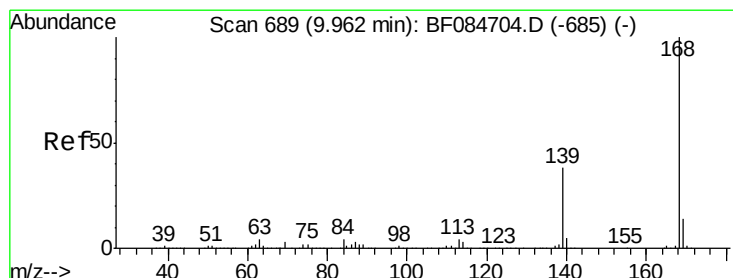
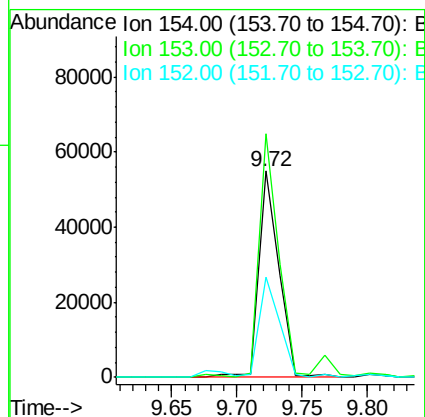
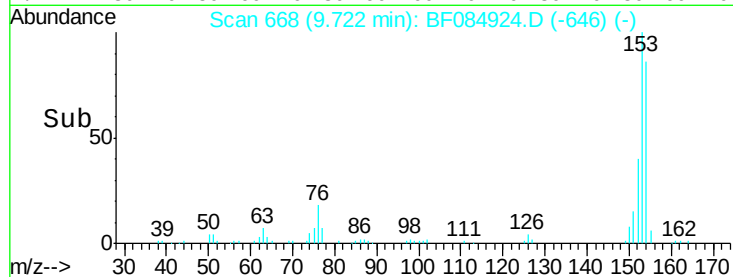
Tot Ion:	154	Resp:	59152
Ion Ratio	Lower	Upper	
154	100		
153	117.9	91.5	137.3
152	48.8	43.0	64.6

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.51 ng

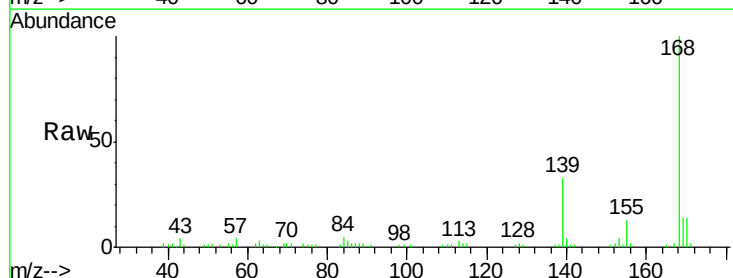
RT: 9.90 min Scan# 684

Delta R.T. -0.03 min

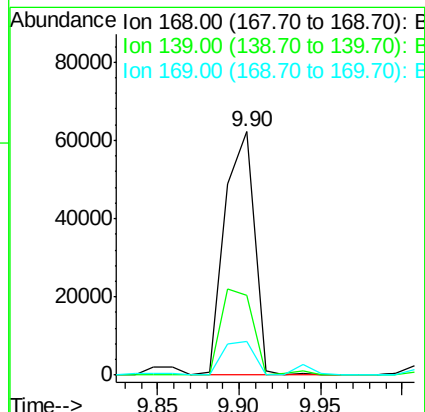
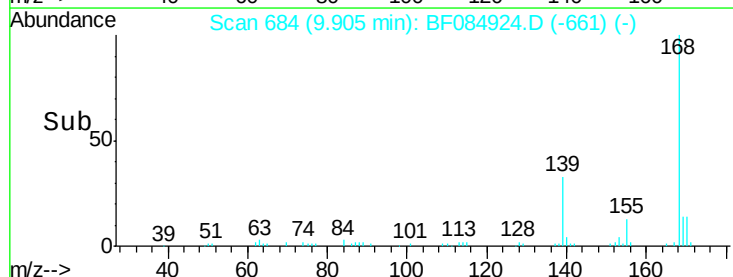
Lab File: BF084924.D

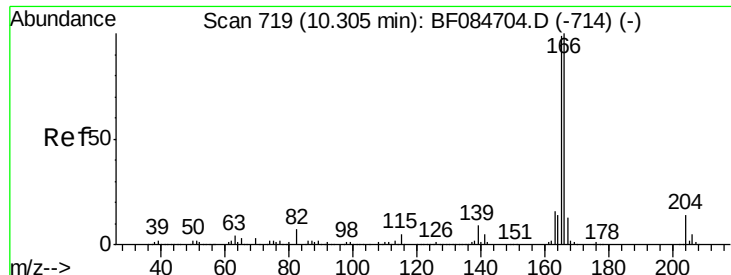
Acq: 6 Feb 2016 20:59

Tgt Ion:	168	Resp:	77696
Ion Ratio	Lower	Upper	
168	100		
139	32.7	30.5	45.7
169	13.8	10.4	15.6



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





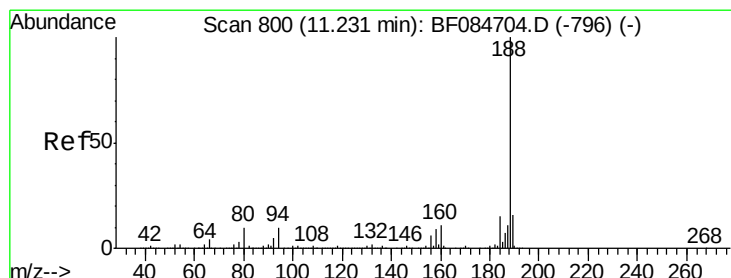
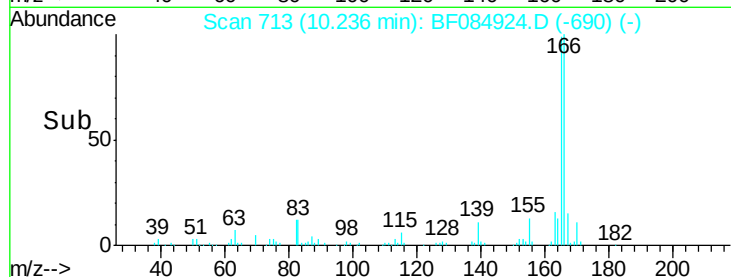
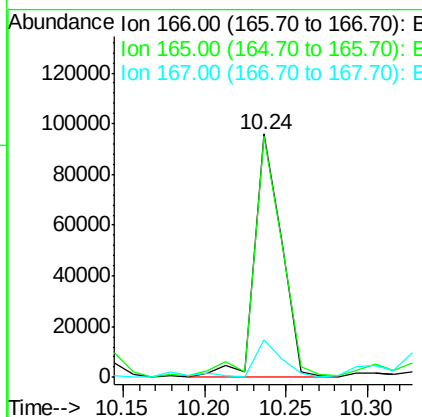
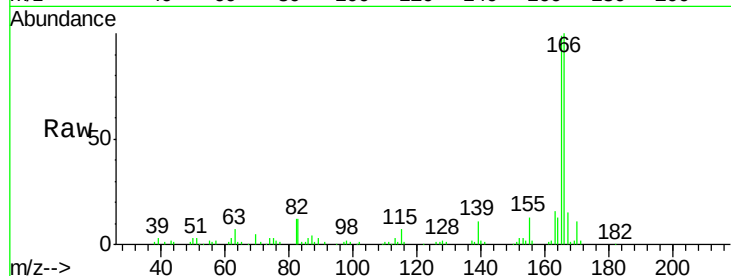
#57
Fluorene
Concen: 5.98 ng
RT: 10.24 min Scan# 713
Delta R.T. -0.03 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		110692		
165	99.1	79.1	118.7		
167	15.3	10.4	15.6		

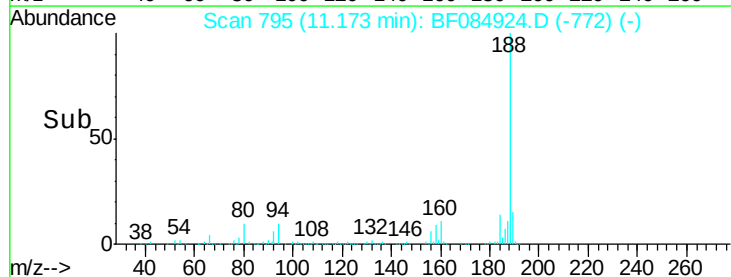
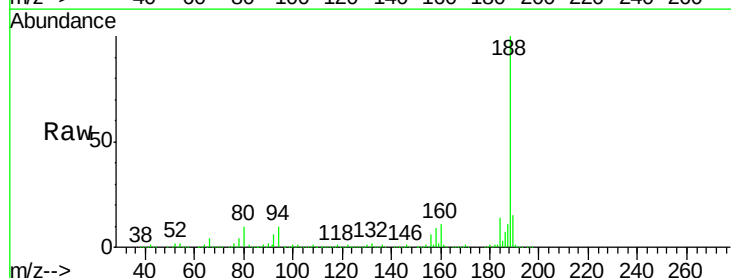
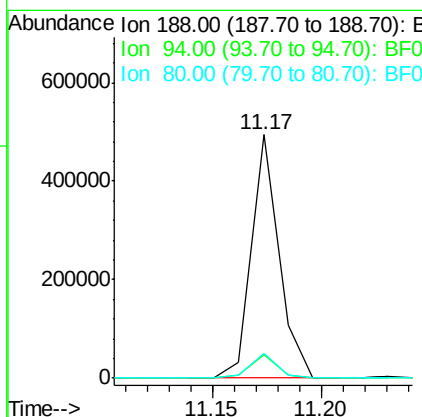
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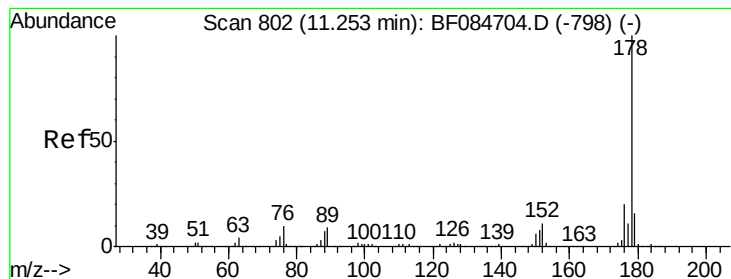
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.17 min Scan# 795
Delta R.T. -0.03 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		434683		
94	9.5	9.0	13.4		
80	10.4	9.6	14.4		





#70

Phenanthrene

Concen: 42.34 ng

RT: 11.20 min Scan# 797

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)DL

Tot Ion:178 Resp: 1020890

Ion Ratio Lower Upper

178 100

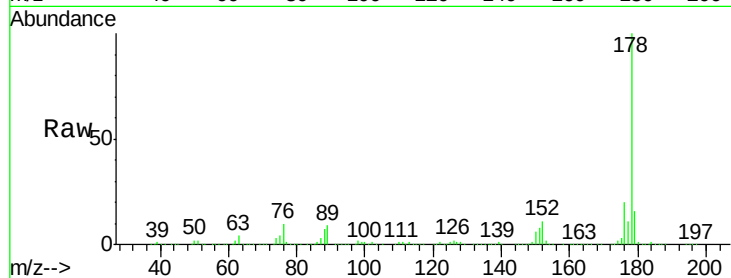
176 19.6 15.3 22.9

179 16.1 12.0 18.0

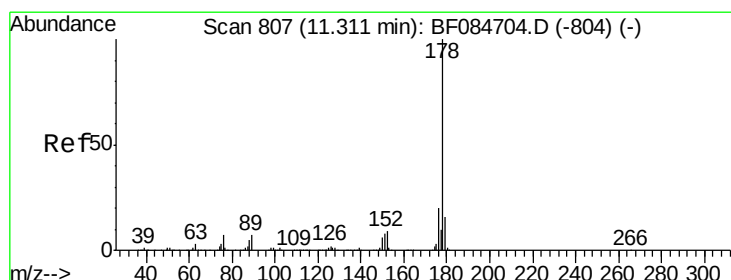
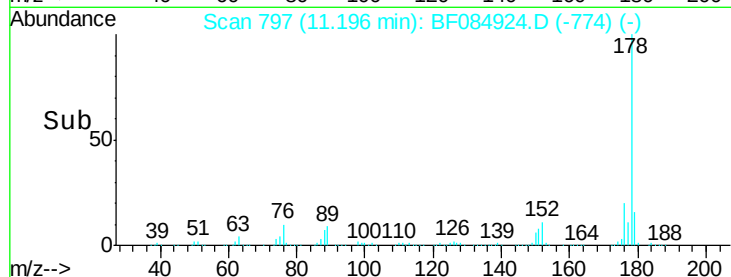
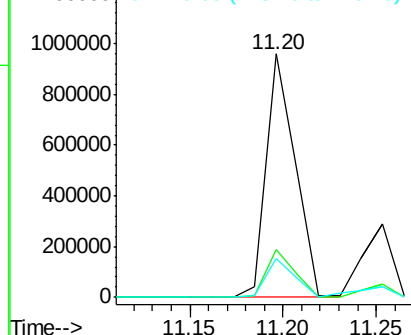
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 12.84 ng

RT: 11.25 min Scan# 802

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

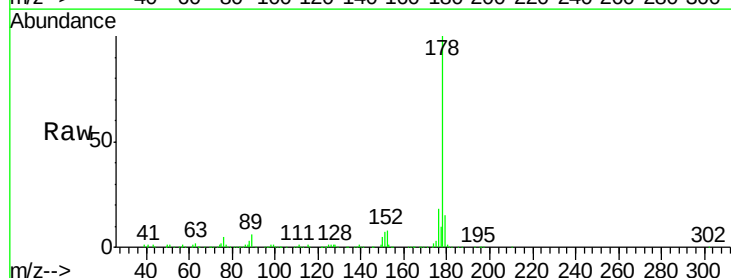
Tgt Ion:178 Resp: 311814

Ion Ratio Lower Upper

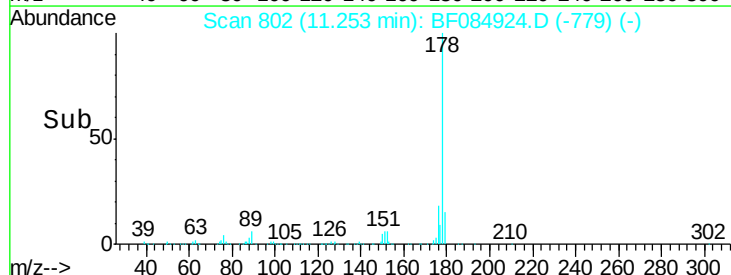
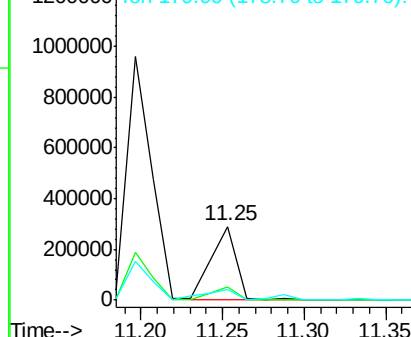
178 100

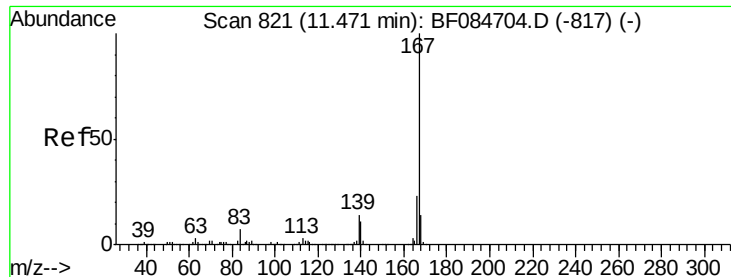
176 18.3 15.4 23.0

179 15.2 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.56 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

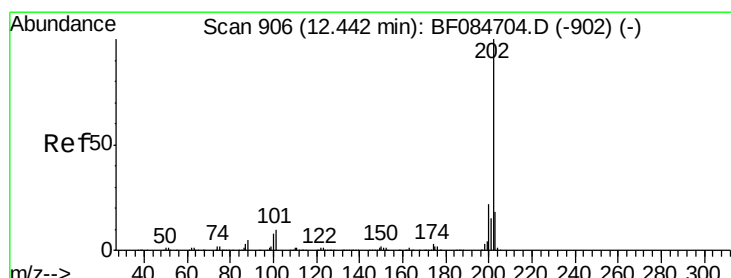
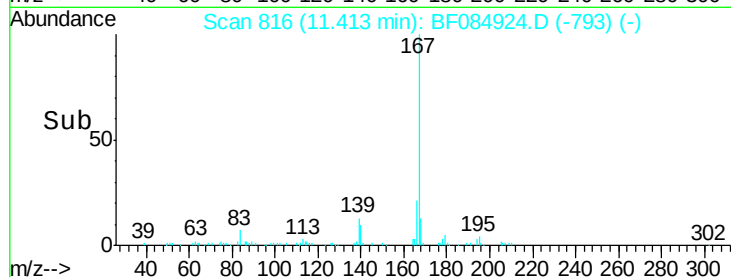
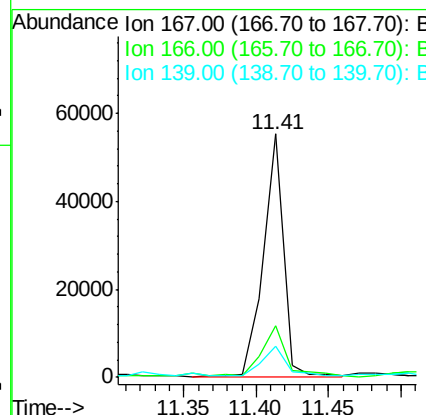
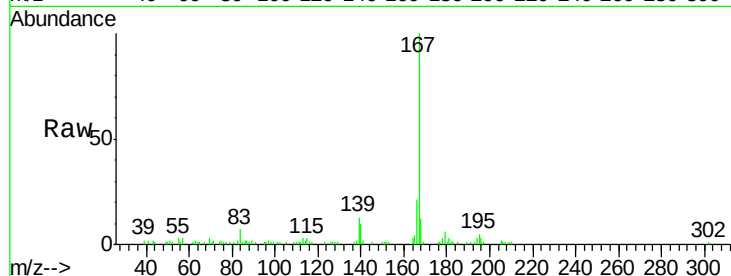
ClientSampleId :

S4-B012(5-7)DL

Tot Ion:	167	Resp:	54308
Ion Ratio	Lower	Upper	
167	100		
166	21.2	17.6	26.4
139	12.6	11.8	17.8

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#74

Fluoranthene

Concen: 55.19 ng

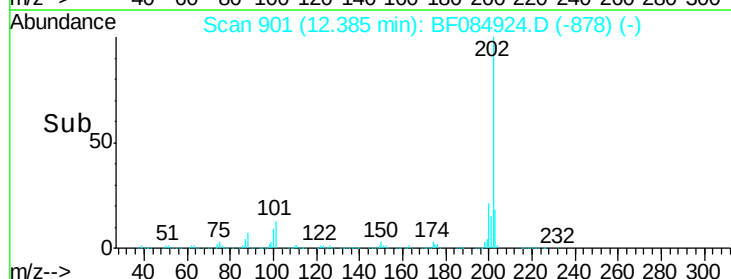
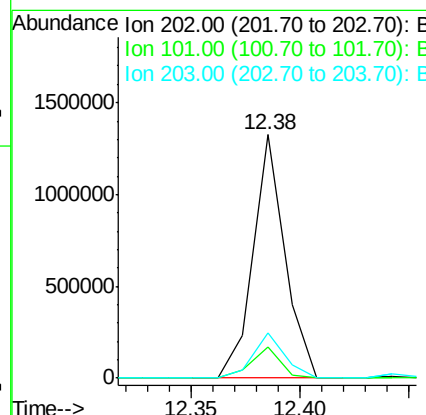
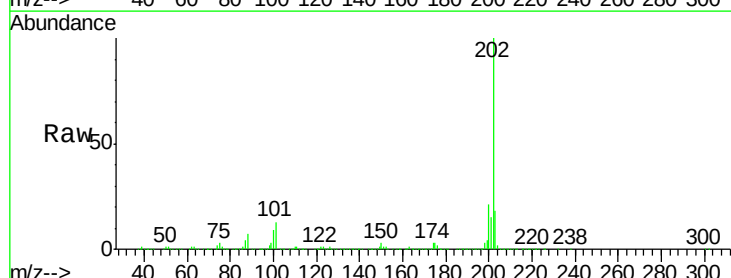
RT: 12.38 min Scan# 901

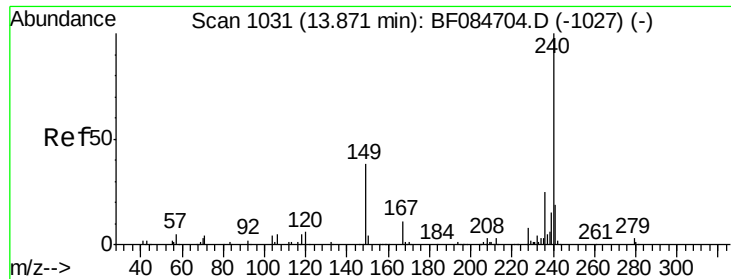
Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	202	Resp:	1346603
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	32.8
203	18.4	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

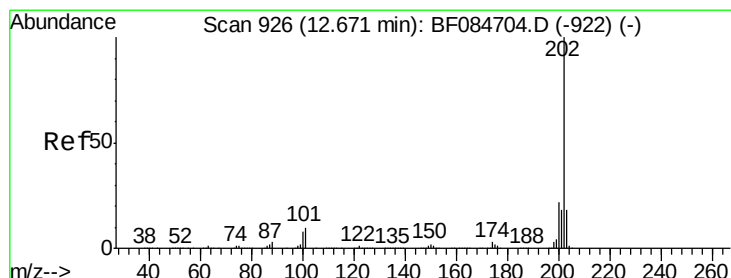
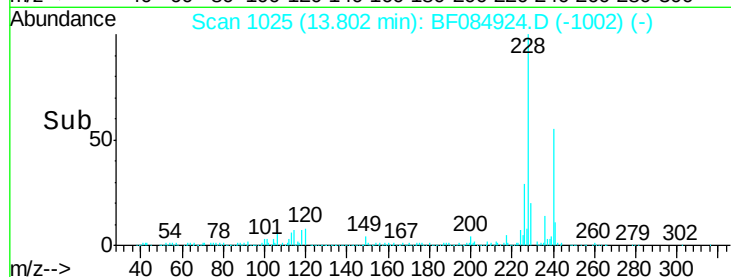
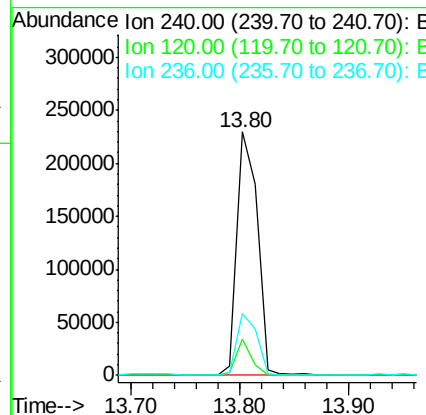
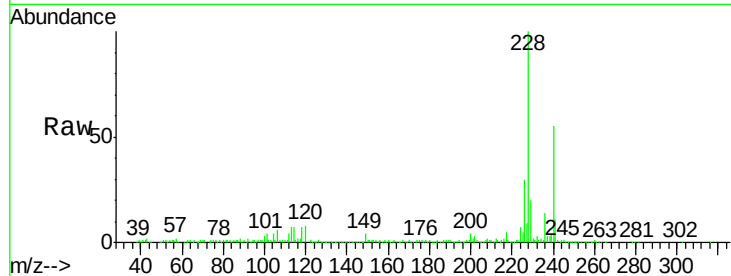
ClientSampleId :

S4-B012(5-7)DL

Tot Ion:	240	Resp:	296617
Ion Ratio	Lower	Upper	
240	100		
120	15.1	9.5	14.3#
236	25.5	20.6	31.0

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#77

Pyrene

Concen: 57.80 ng

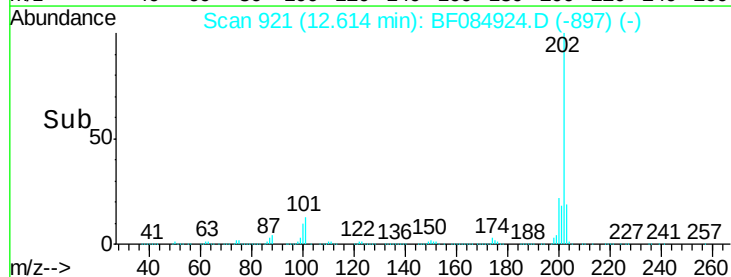
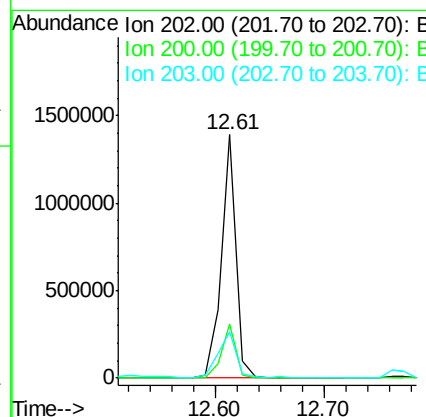
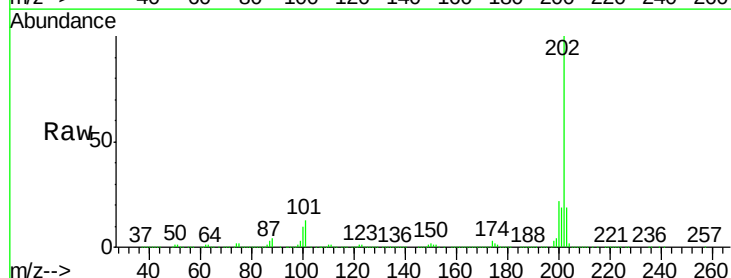
RT: 12.61 min Scan# 921

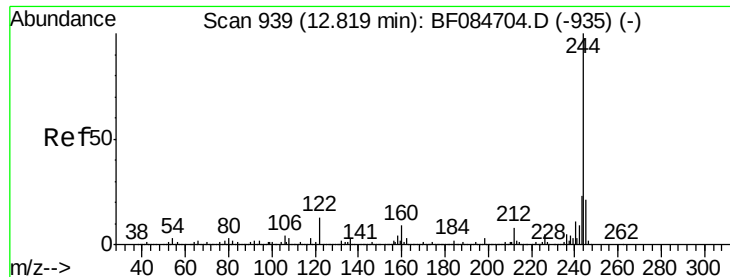
Delta R.T. -0.02 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	202	Resp:	1312639
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.2	25.8
203	18.9	14.3	21.5





#78

Terphenyl-d14

Concen: 46.28 ng

RT: 12.76 min Scan# 934

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

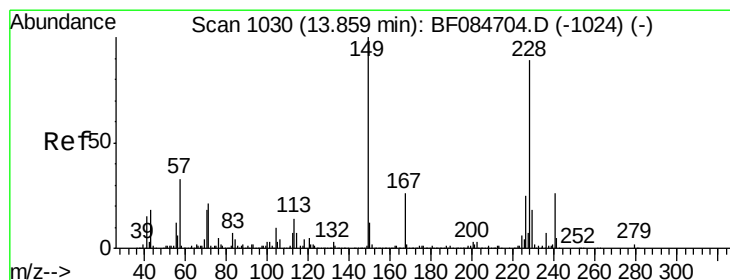
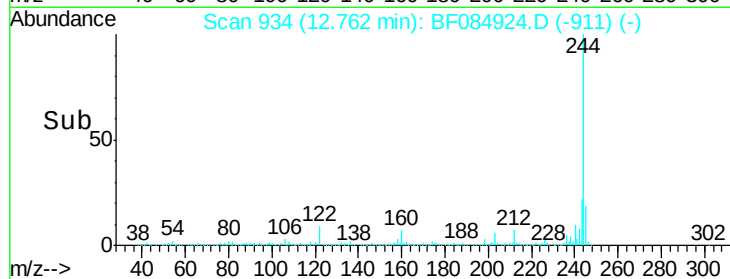
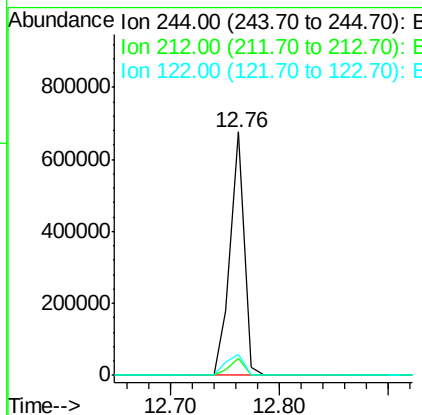
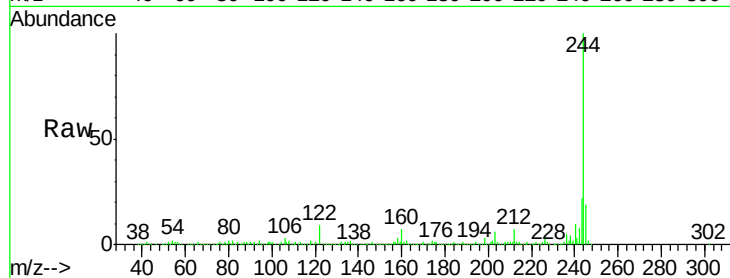
ClientSampleId :

S4-B012(5-7)DL

Tot Ion:	244	Resp:	605844
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.7	8.5
122	8.8	7.4	11.0

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#80

Benzo(a)anthracene

Concen: 33.84 ng m

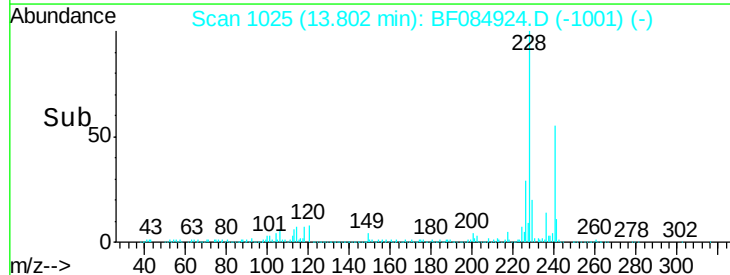
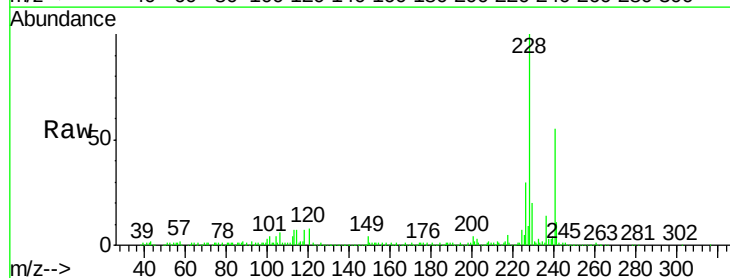
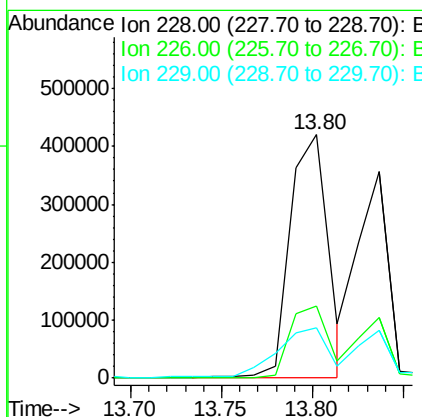
RT: 13.80 min Scan# 1025

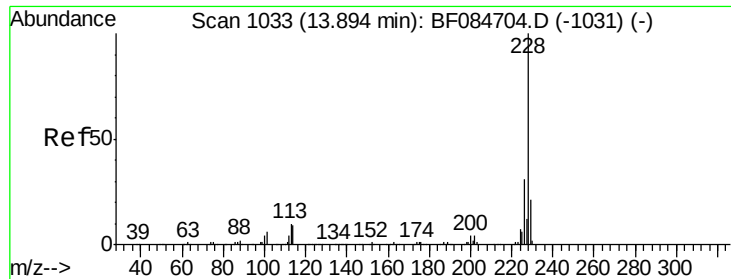
Delta R.T. -0.02 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	228	Resp:	622901
Ion Ratio	Lower	Upper	
228	100		
226	29.6	21.8	32.6
229	20.5	15.8	23.8





#82

Chrysene

Concen: 23.66 ng/mL

RT: 13.84 min Scan# 1028

Delta R.T. -0.02 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

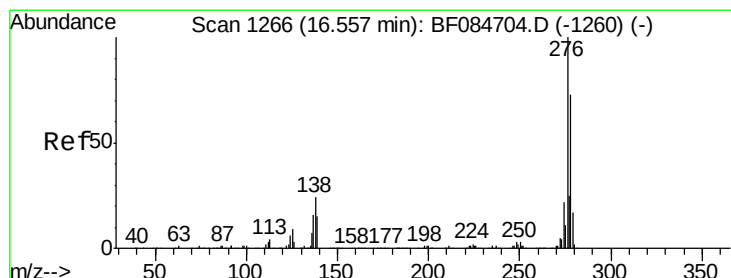
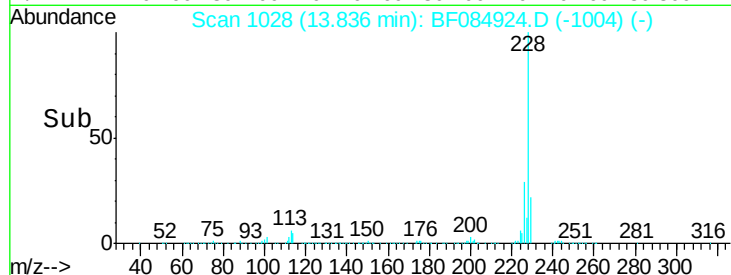
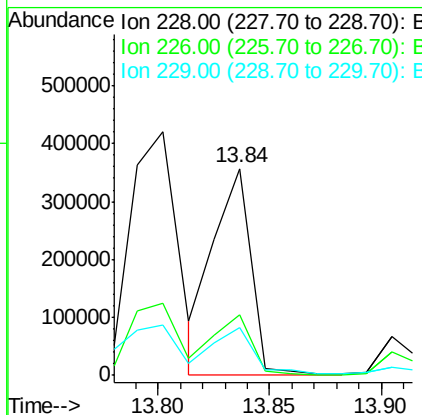
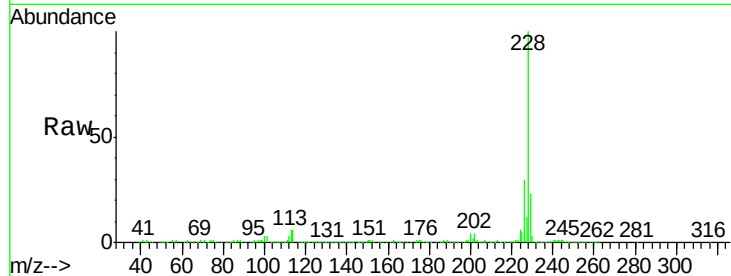
ClientSampleId :

S4-B012(5-7)DL

Tot Ion:	228	Resp:	422364
Ion Ratio	Lower	Upper	
228	100		
226	29.5	24.3	36.5
229	22.9	16.1	24.1

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#85

Indeno(1,2,3-cd)pyrene

Concen: 22.67 ng/mL

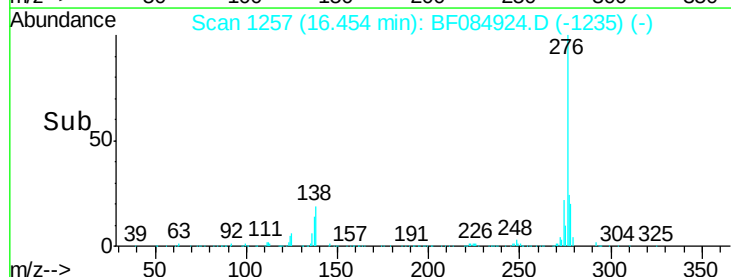
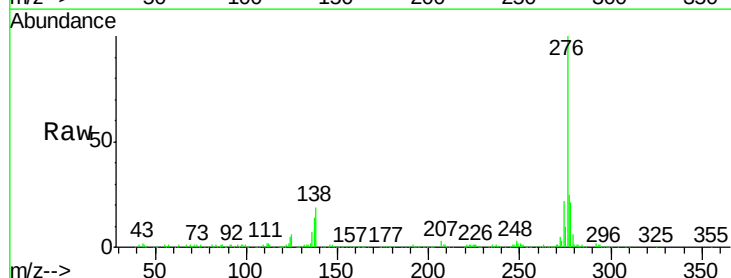
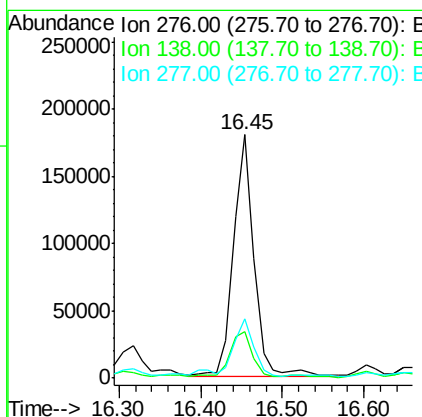
RT: 16.45 min Scan# 1257

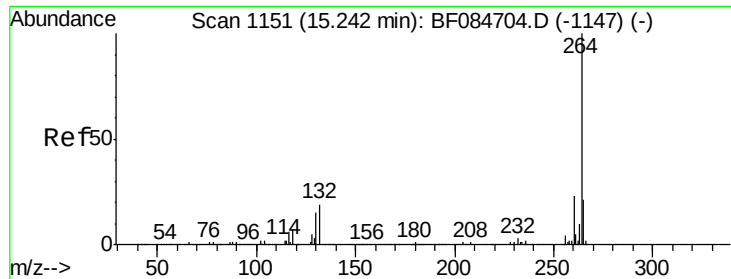
Delta R.T. -0.05 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	276	Resp:	318624
Ion Ratio	Lower	Upper	
276	100		
138	20.8	20.6	30.8
277	25.7	20.1	30.1





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.17 min Scan# 1145

Delta R.T. -0.03 min

Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Instrument :

BNA_F

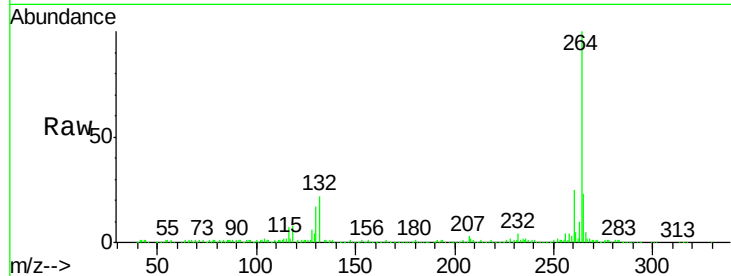
ClientSampleId :

S4-B012(5-7)DL

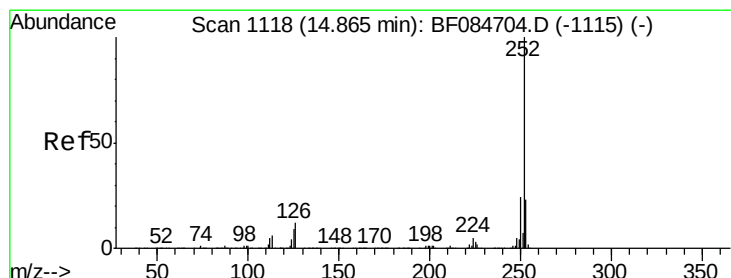
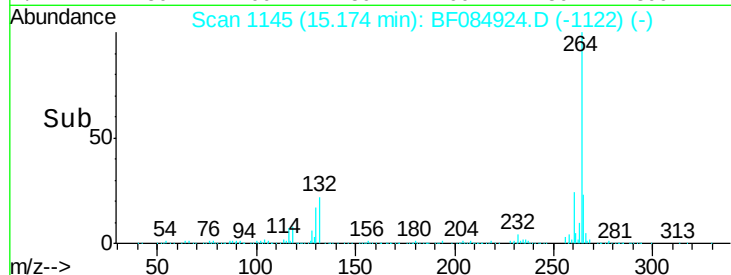
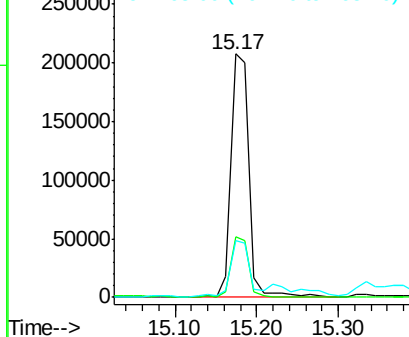
Tot Ion:	264	Resp:	318817
Ion Ratio		Lower	Upper
264	100		
260	24.6	19.4	29.2
265	23.5	17.8	26.6

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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: 33.17 ng m

RT: 14.81 min Scan# 1113

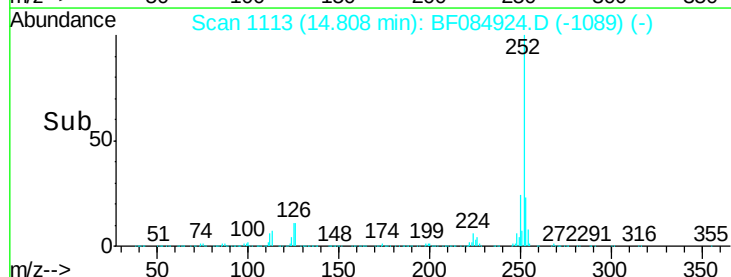
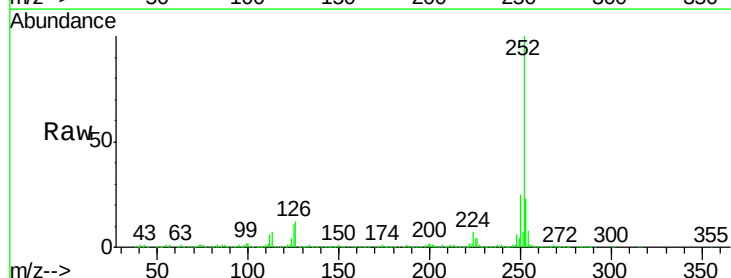
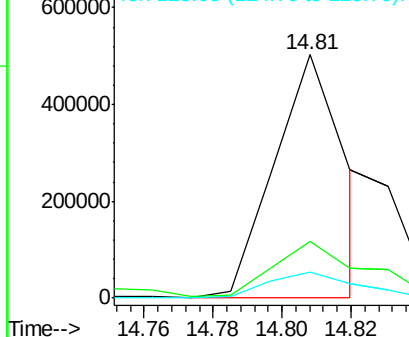
Delta R.T. -0.02 min

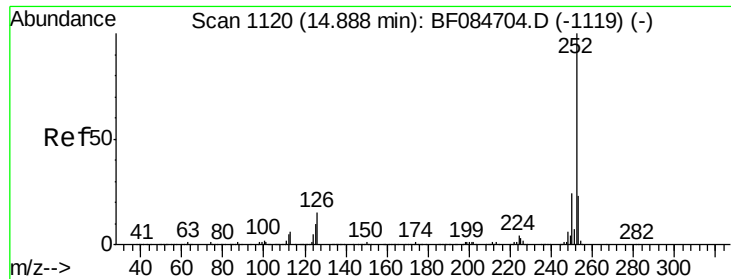
Lab File: BF084924.D

Acq: 6 Feb 2016 20:59

Tgt Ion:	252	Resp:	710635
Ion Ratio		Lower	Upper
252	100		
253	23.1	17.3	25.9
125	10.8	6.5	9.7#

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





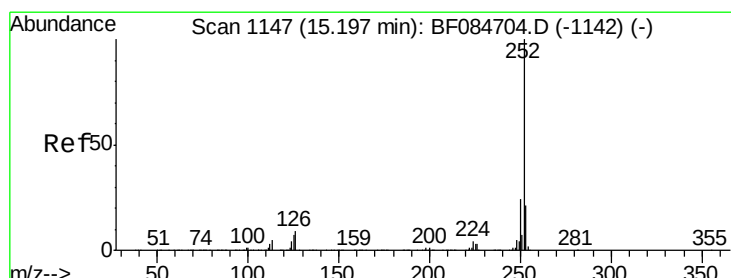
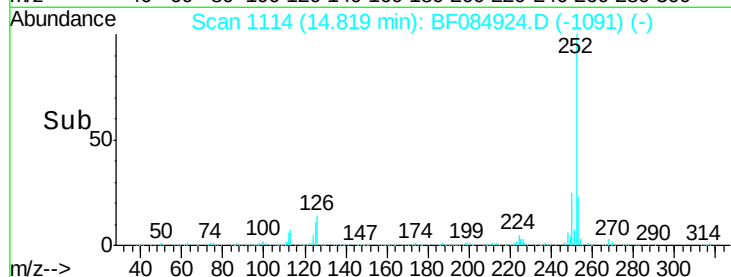
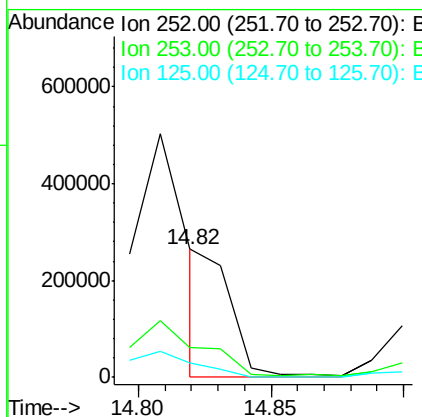
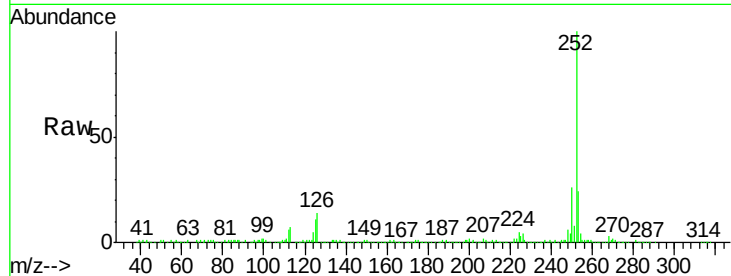
#88
Benzo(k)fluoranthene
Concen: 10.29 ng/mL
RT: 14.82 min Scan# 1114
Delta R.T. -0.03 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)DL

Tot Ion	Ratio	Resp	Lower	Upper
252	100	182196		
253	23.6	18.1	27.1	
125	11.4	9.0	13.6	

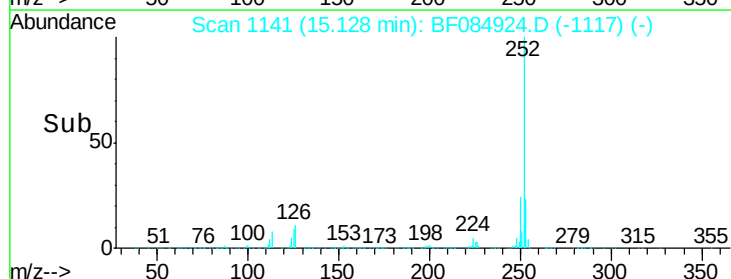
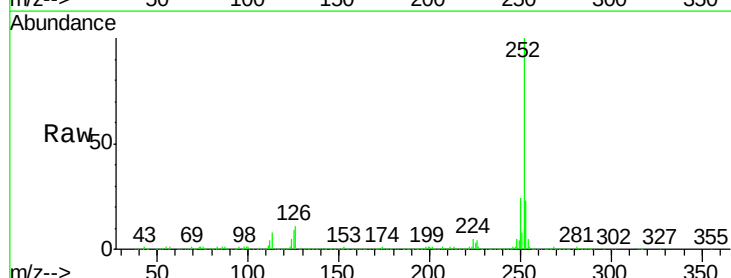
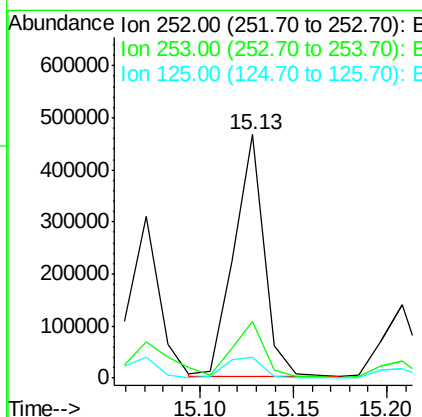
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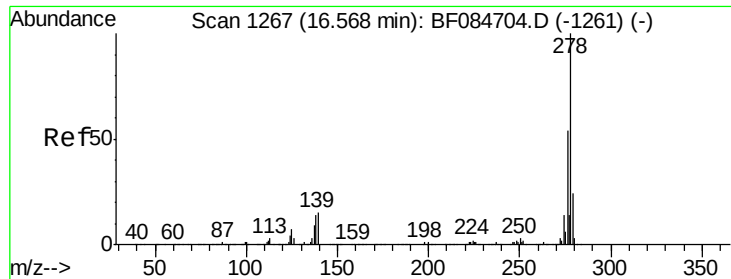
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#89
Benzo(a)pyrene
Concen: 28.54 ng/mL
RT: 15.13 min Scan# 1141
Delta R.T. -0.02 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	520958		
253	23.4	17.3	25.9	
125	8.8	7.0	10.4	





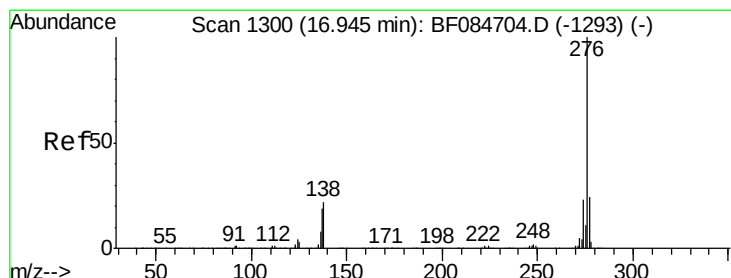
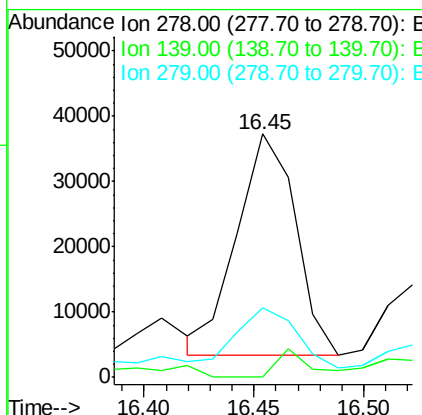
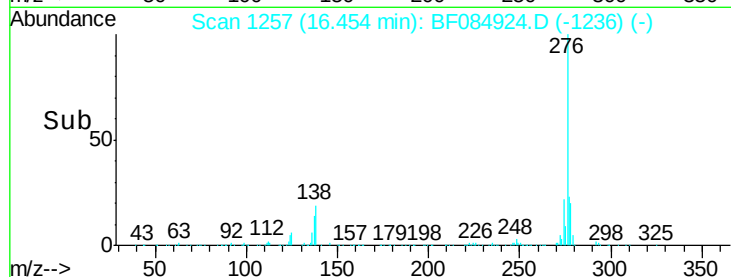
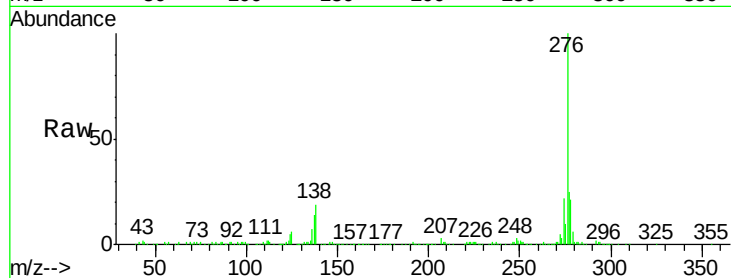
#90
Dibenzo(a,h)anthracene
Concen: 4.08 ng/mL
RT: 16.45 min Scan# 1257
Delta R.T. -0.06 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Instrument :
BNA_F
ClientSampleID :
S4-B012(5-7)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.0	22.4#
279	28.5	18.9	28.3#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 18.67 ng/mL
RT: 16.84 min Scan# 1291
Delta R.T. -0.05 min
Lab File: BF084924.D
Acq: 6 Feb 2016 20:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.8	28.2
138	18.5	17.8	26.6

