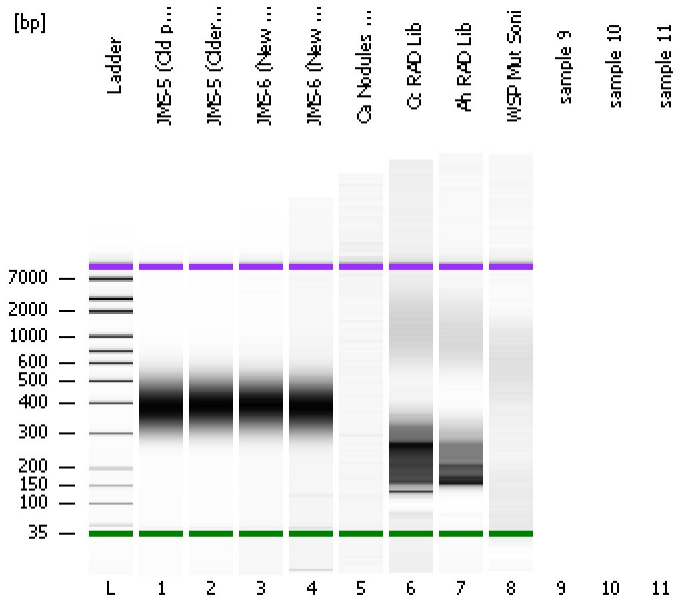
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

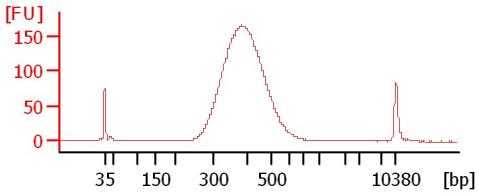
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

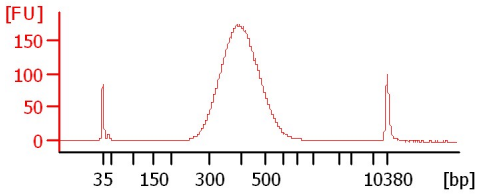
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

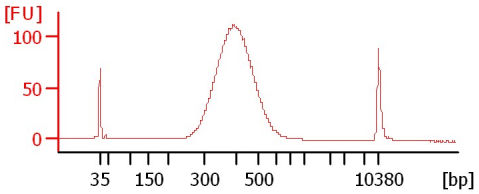
JMS-5 (Old primer, EB)



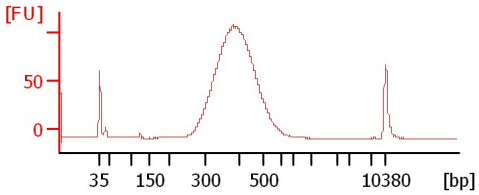
JMS-5 (Older primer, Tris-HCL)



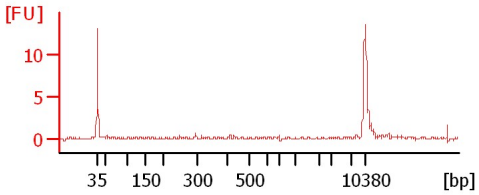
JMS-6 (New primer, EB)



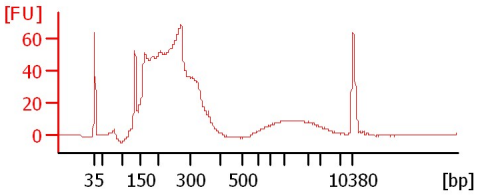
JMS-6 (New primer, Tris-HCL)



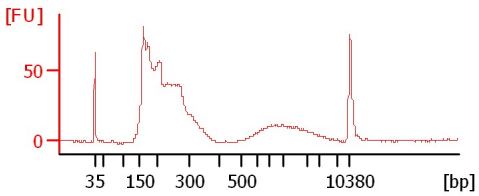
Ca Nodules SGP Lib



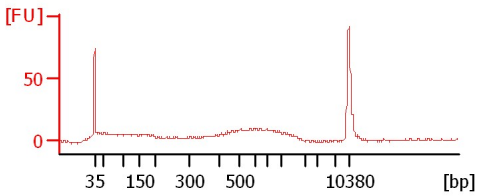
Cc RAD Lib



Ah RAD Lib



WSP Mut Soni



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JMS-5 (Old primer, EB)		☐	✔			
JMS-5 (Older primer, Tris-HCL)		☐	✔			
JMS-6 (New primer, EB)		☐	✔			
JMS-6 (New primer, Tris-HCL)		☐	✔			
Ca Nodules SGP Lib		☐	✔			
Cc RAD Lib		☐	✔			
Ah RAD Lib		☐	✔			
WSP Mut Soni		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/µl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/µl] : 125
Upper Marker Concentration [pg/µl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

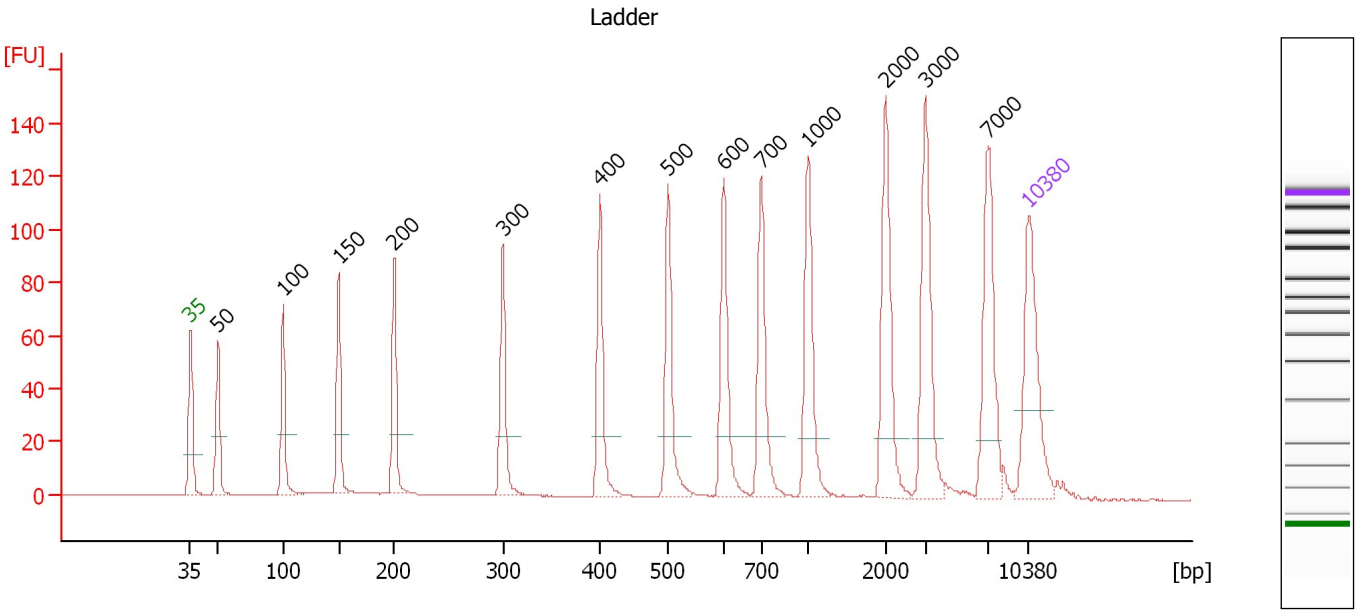
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

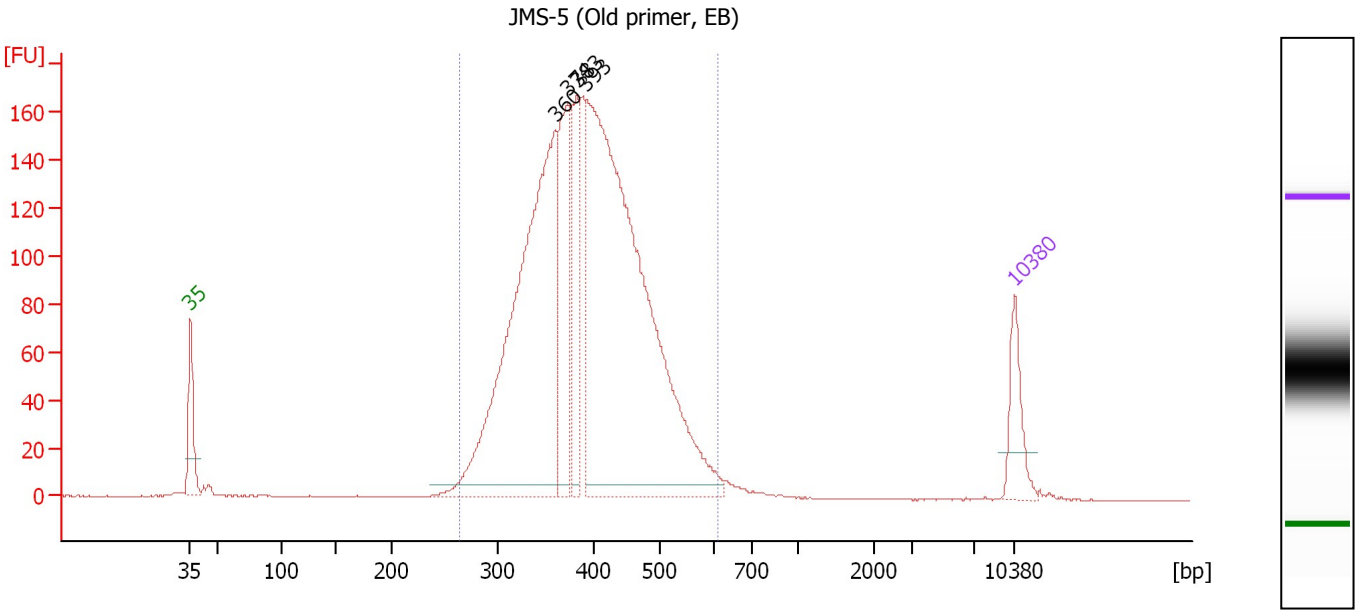
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		50	150.00	4,545.5	Ladder Peak
3		100	150.00	2,272.7	Ladder Peak
4		150	150.00	1,515.2	Ladder Peak
5		200	150.00	1,136.4	Ladder Peak
6		300	150.00	757.6	Ladder Peak
7		400	150.00	568.2	Ladder Peak
8		500	150.00	454.5	Ladder Peak
9		600	150.00	378.8	Ladder Peak
10		700	150.00	324.7	Ladder Peak
11		1,000	150.00	227.3	Ladder Peak
12		2,000	150.00	113.6	Ladder Peak
13		3,000	150.00	75.8	Ladder Peak
14		7,000	150.00	32.5	Ladder Peak
15		10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JMS-5 (Old primer, EB)

Number of peaks found:	4	Corr. Area 1:	2,648.2
Noise:	0.2		

Peak table for sample 1 : JMS-5 (Old primer, EB)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		360	1,124.70	4,728.1	
3		374	289.60	1,173.7	
4		383	191.36	756.4	
5		393	1,533.55	5,906.4	
6	▶	10,380	75.00	10.9	Upper Marker

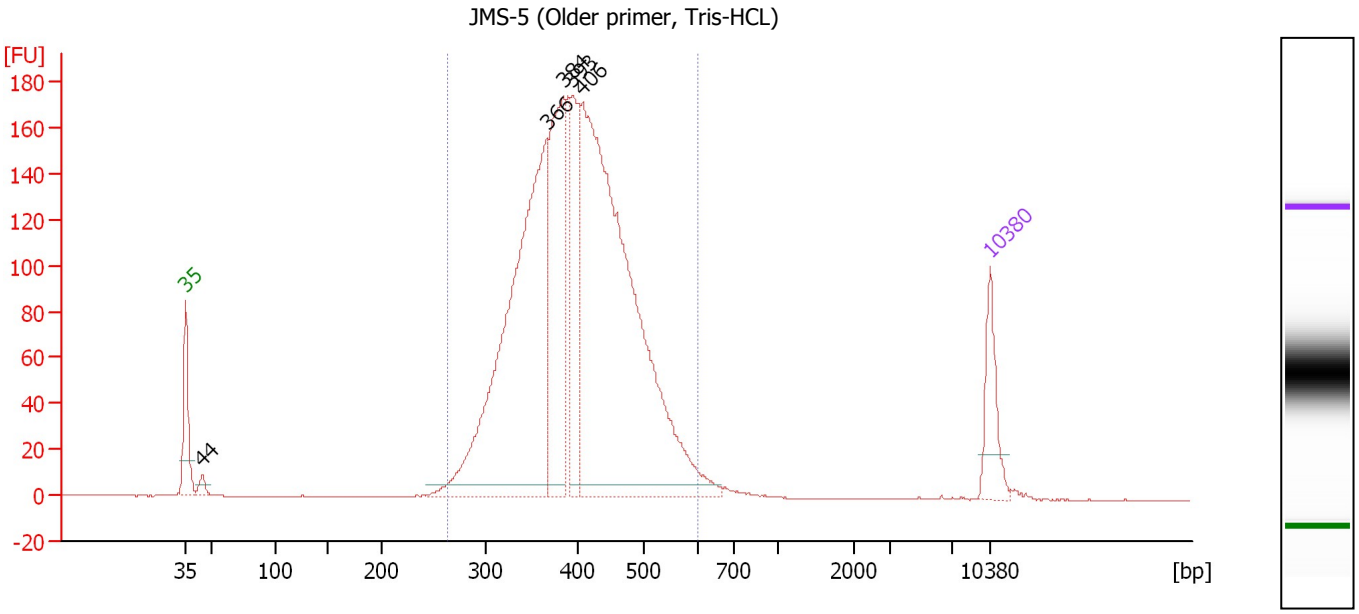
Region table for sample 1 : JMS-5 (Old primer, EB)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
265	607	399	13,074.2	3,326.07	2,648.2	97	16.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : JMS-5 (Older primer, Tris-HCL)

Number of peaks found:	5	Corr. Area 1:	2,648.6
Noise:	0.2		

Peak table for sample 2 : JMS-5 (Older primer, Tris-HCL)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		44	23.00	786.2	
3		366	971.05	4,018.8	
4		384	404.94	1,598.4	
5		393	216.66	835.3	
6		406	1,292.85	4,830.5	
7	▶	10,380	75.00	10.9	Upper Marker

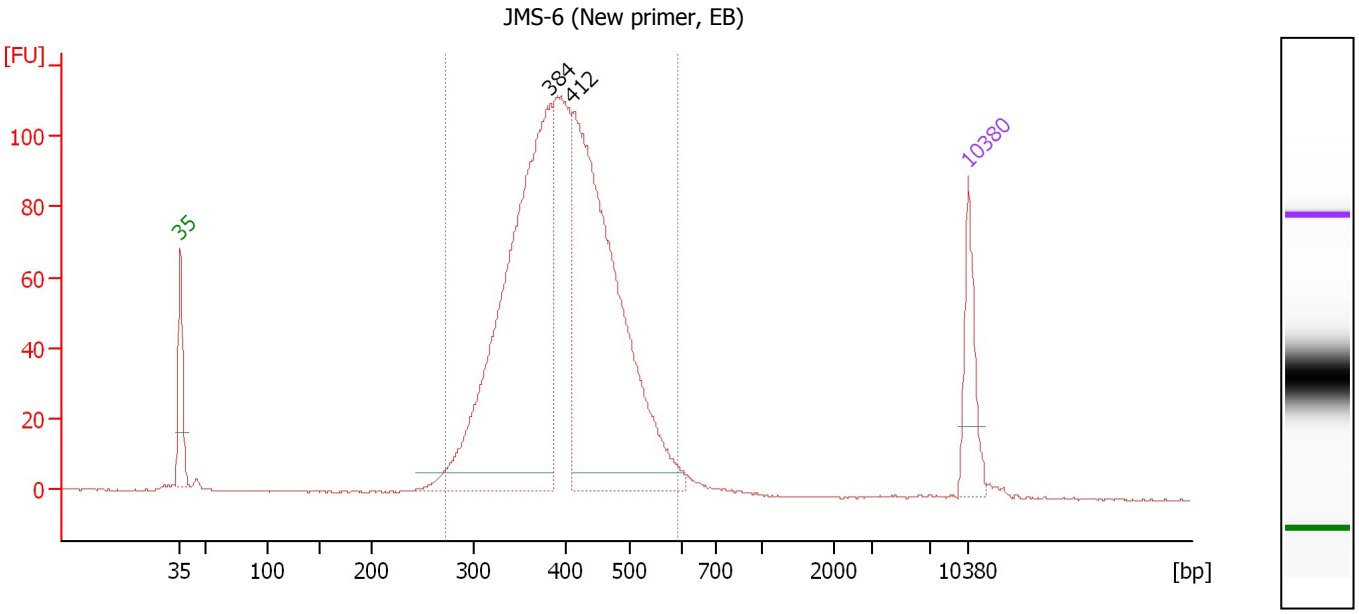
Region table for sample 2 : JMS-5 (Older primer, Tris-HCL)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
263	601	404	11,648.2	3,002.73	2,648.6	98	16.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JMS-6 (New primer, EB)

Number of peaks found:	2	Corr. Area 1:	1,645.4
Noise:	0.1		

Peak table for sample 3 : JMS-6 (New primer, EB)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	384	929.86	3,672.8	
3	412	834.32	3,071.4	
4	10,380	75.00	10.9	Upper Marker

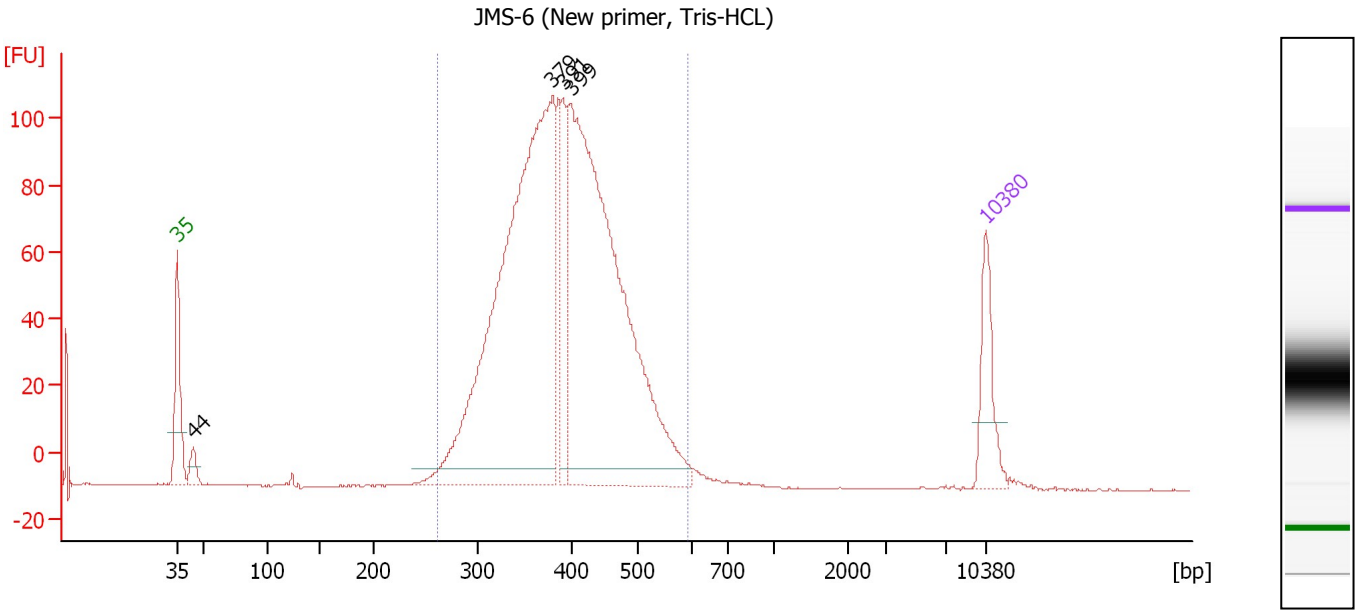
Region table for sample 3 : JMS-6 (New primer, EB)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
272	594	404	8,277.5	2,142.30	1,645.4	96	15.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : JMS-6 (New primer, Tris-HCL)

Number of peaks found:	4	Corr. Area 1:	1,830.9
Noise:	0.1		

Peak table for sample 4 : JMS-6 (New primer, Tris-HCL)

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		44	32.27	1,111.7	
3		379	1,146.68	4,582.6	
4		391	125.39	486.5	
5		399	1,052.45	3,995.9	
6	▶	10,380	75.00	10.9	Upper Marker

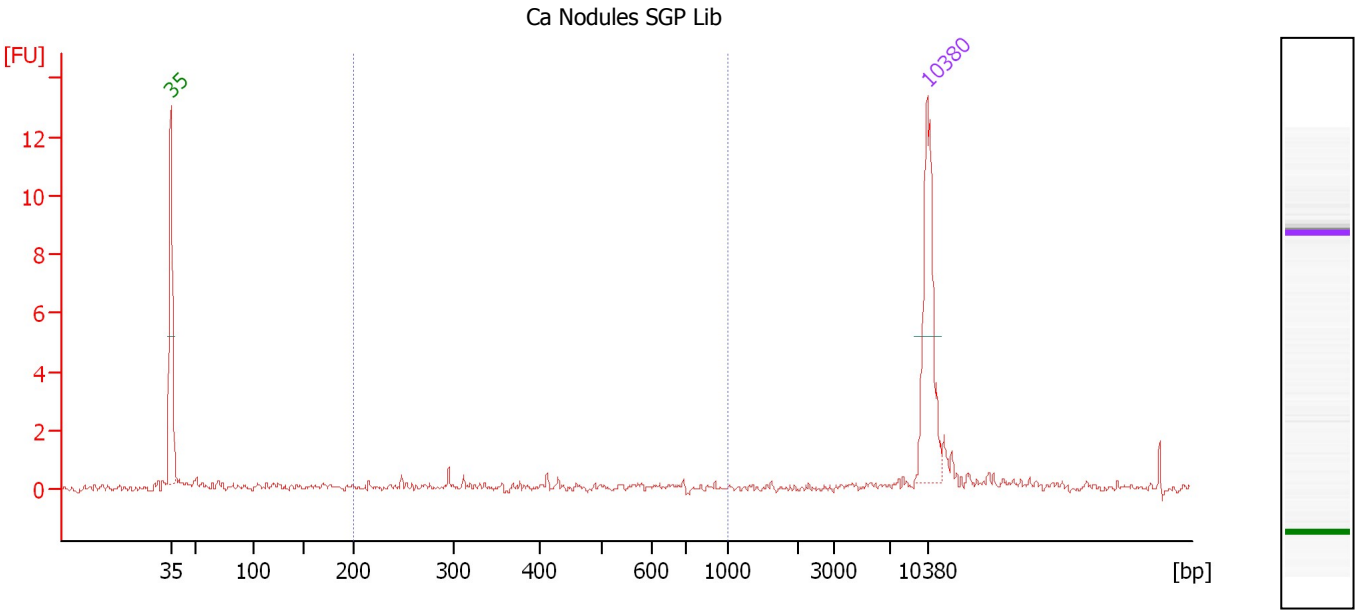
Region table for sample 4 : JMS-6 (New primer, Tris-HCL)

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
262	593	396	9,845.7	2,487.45	1,830.9	95	16.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Ca Nodules SGP Lib

Number of peaks found:	0	Corr. Area 1:	1.5
Noise:	0.1		

Peak table for sample 5 : Ca Nodules SGP Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : Ca Nodules SGP Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	401	63.9	14.23	1.5	23	38.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

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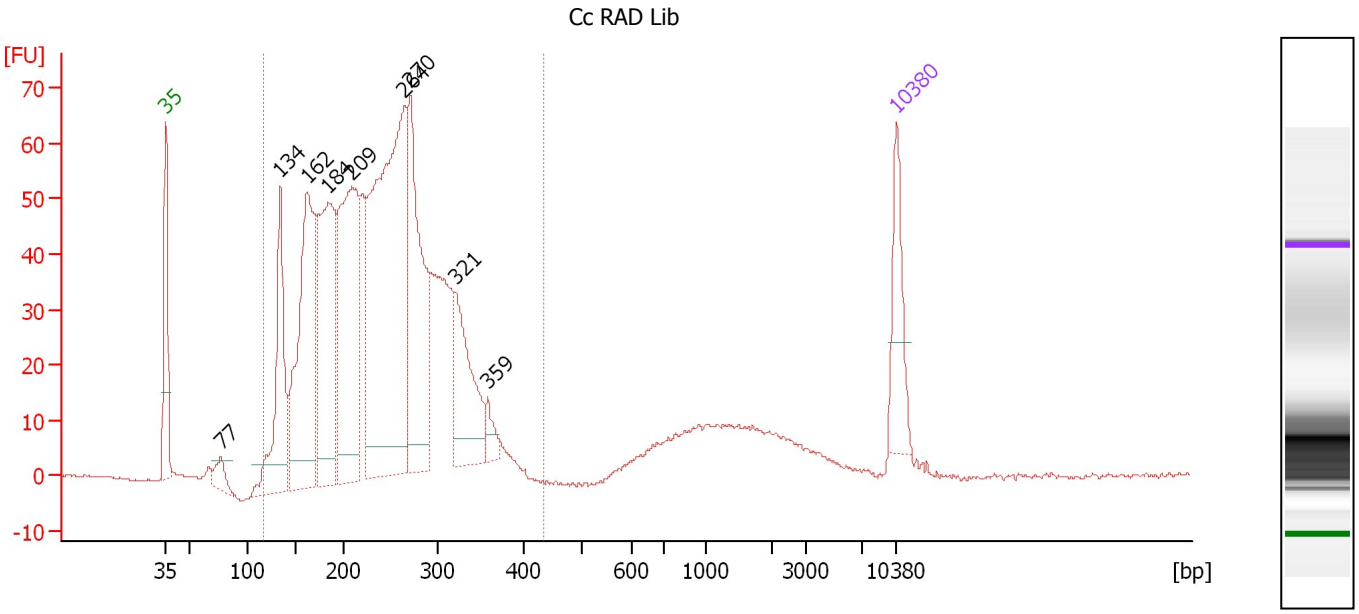
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Cc RAD Lib

Number of peaks found:	9	Corr. Area 1:	1,391.5
Noise:	0.2		

Peak table for sample 6 : Cc RAD Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	77	34.77	683.4	
3	134	252.84	2,852.2	
4	162	444.94	4,150.4	
5	184	377.53	3,110.0	
6	209	421.23	3,046.9	
7	264	735.95	4,224.0	
8	270	328.40	1,841.7	
9	321	170.54	805.6	
10	359	27.45	116.0	
11	10,380	75.00	10.9	Upper Marker

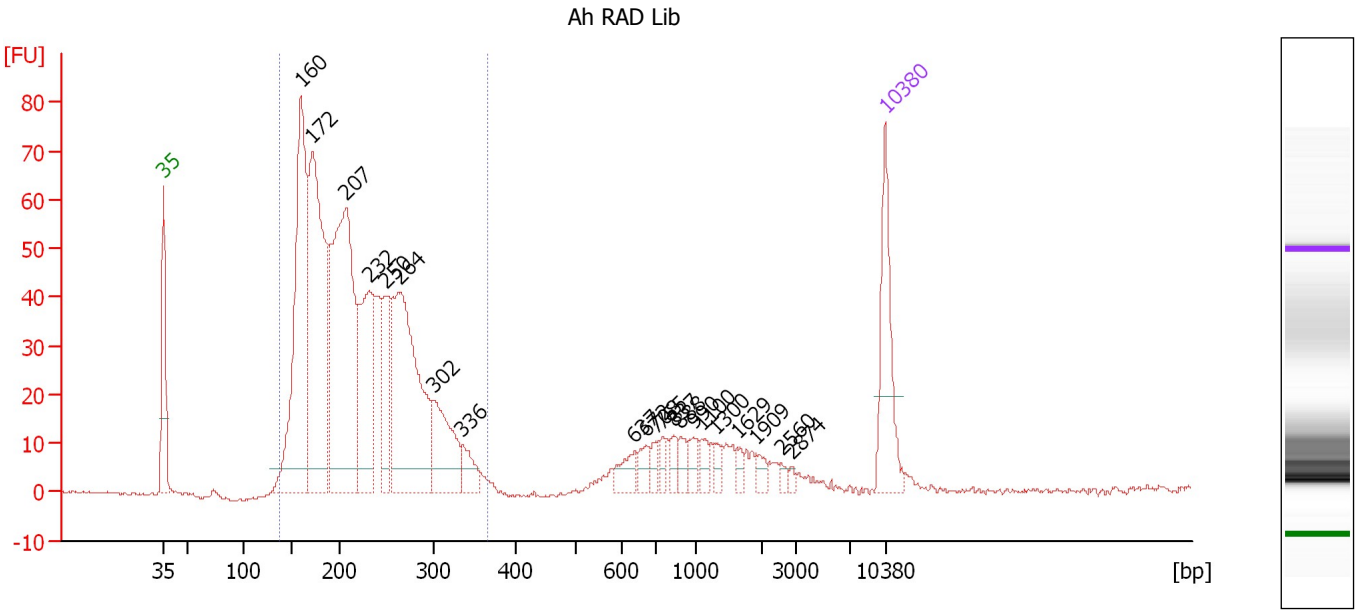
Region table for sample 6 : Cc RAD Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
118	436	237	22,095.9	3,150.81	1,391.5	90	24.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Ah RAD Lib

Number of peaks found:	21	Corr. Area 1:	1,108.0
Noise:	0.3		

Peak table for sample 7 : Ah RAD Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	160	384.87	3,646.8	
3	172	407.20	3,594.7	
4	207	421.74	3,087.5	
5	232	168.09	1,097.7	
6	250	83.44	506.3	
7	264	312.26	1,792.7	
8	302	95.43	479.3	
9	336	28.21	127.4	
10	637	22.51	53.5	
11	672	16.49	37.2	
12	708	12.66	27.1	
13	755	11.72	23.5	
14	837	13.23	23.9	
15	888	12.56	21.4	
16	990	12.48	19.1	
17	1,100	11.91	16.4	
18	1,300	9.31	10.9	
19	1,629	7.29	6.8	
20	1,909	9.25	7.3	
21	2,560	4.96	2.9	
22	2,874	3.30	1.7	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...

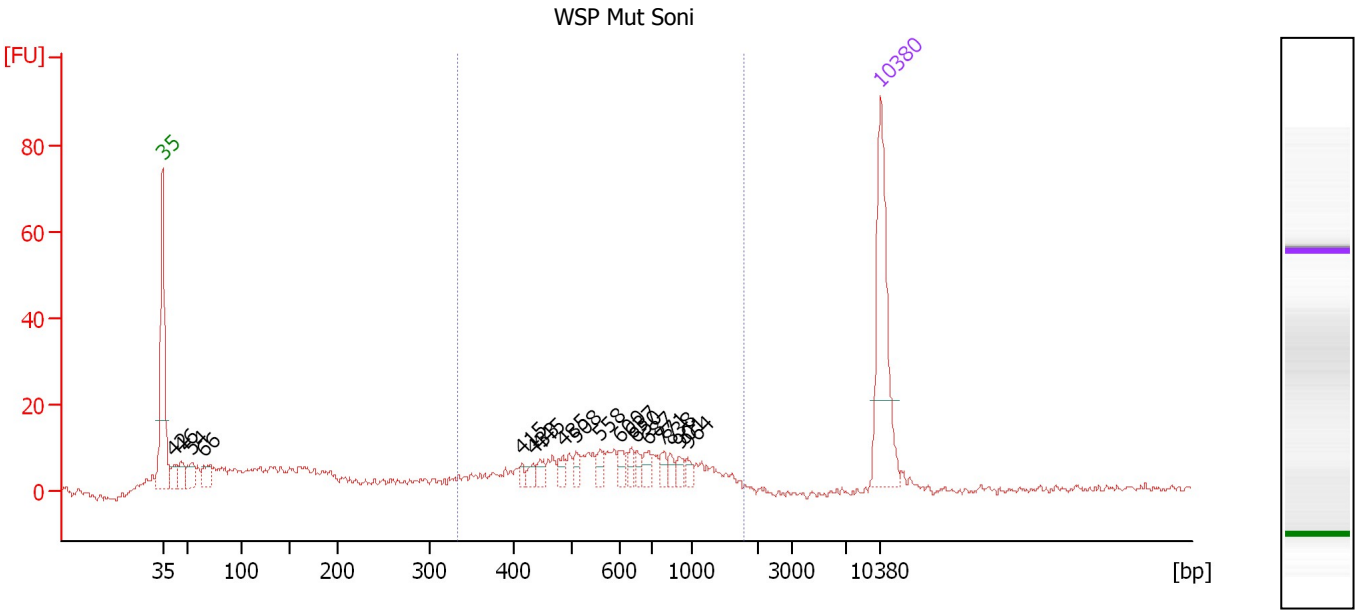
... Region table for sample 7 : Ah RAD Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
139	367	221	14,620.3	1,995.05	1,108.0	86	22.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WSP Mut Soni

Number of peaks found:	18	Corr. Area 1:	217.6
Noise:	0.9		

Peak table for sample 8 : WSP Mut Soni

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	14.88	535.9	
3	46	15.49	505.2	
4	54	17.27	484.2	
5	66	17.90	410.9	
6	415	4.39	16.0	
7	433	6.63	23.2	
8	445	7.25	24.7	
9	485	8.36	26.1	
10	508	7.36	21.9	
11	558	7.92	21.5	
12	600	6.95	17.5	
13	637	6.66	15.9	
14	650	6.18	14.4	
15	687	9.41	20.8	
16	771	7.08	13.9	
17	838	5.69	10.3	
18	901	6.03	10.1	
19	964	4.66	7.3	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : WSP Mut Soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	1,771	665	630.8	229.23	217.6	45	44.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

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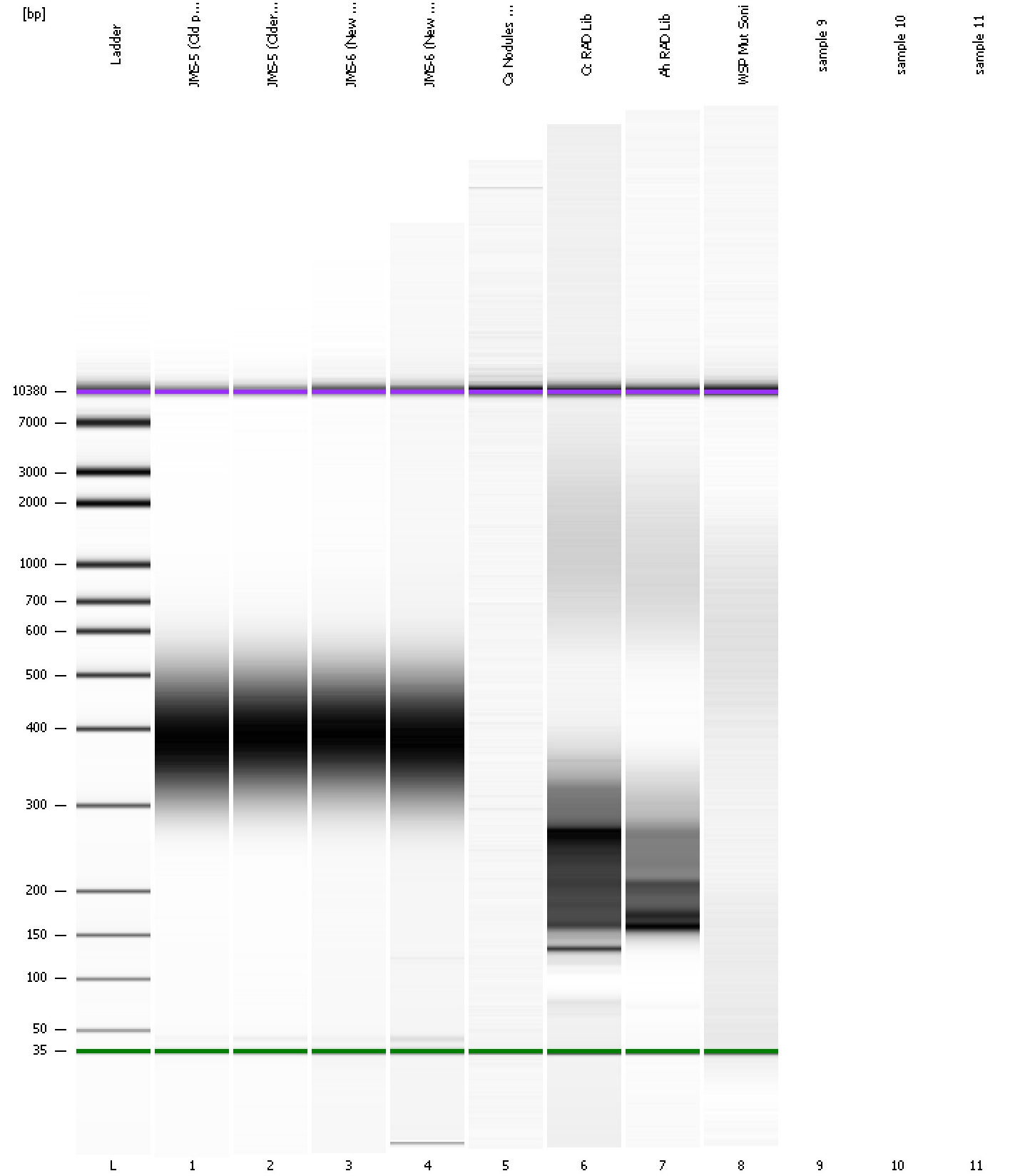
Modified: 8/13/2012 2:16:58 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-08-13\2012-08-13_005.xad

Created: 8/13/2012 1:42:39 PM
Modified: 8/13/2012 2:16:58 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.