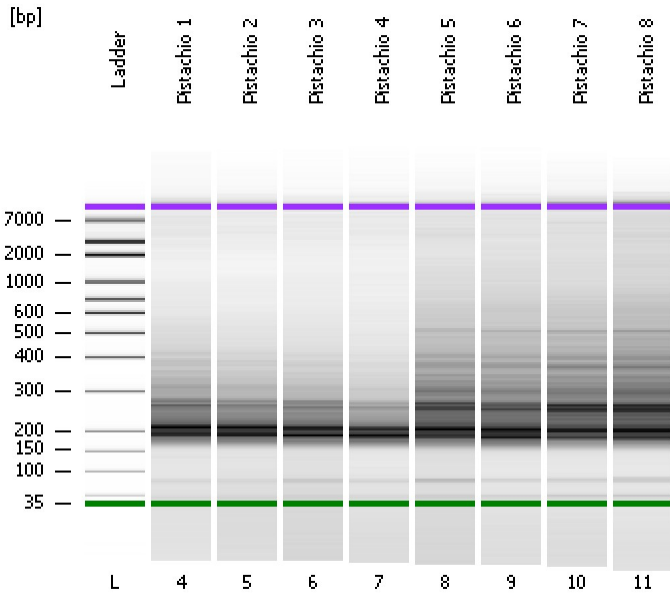


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
Modified: 12/3/2015 10:04:19 AM

Electrophoresis File Run Summary



Instrument Information:

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

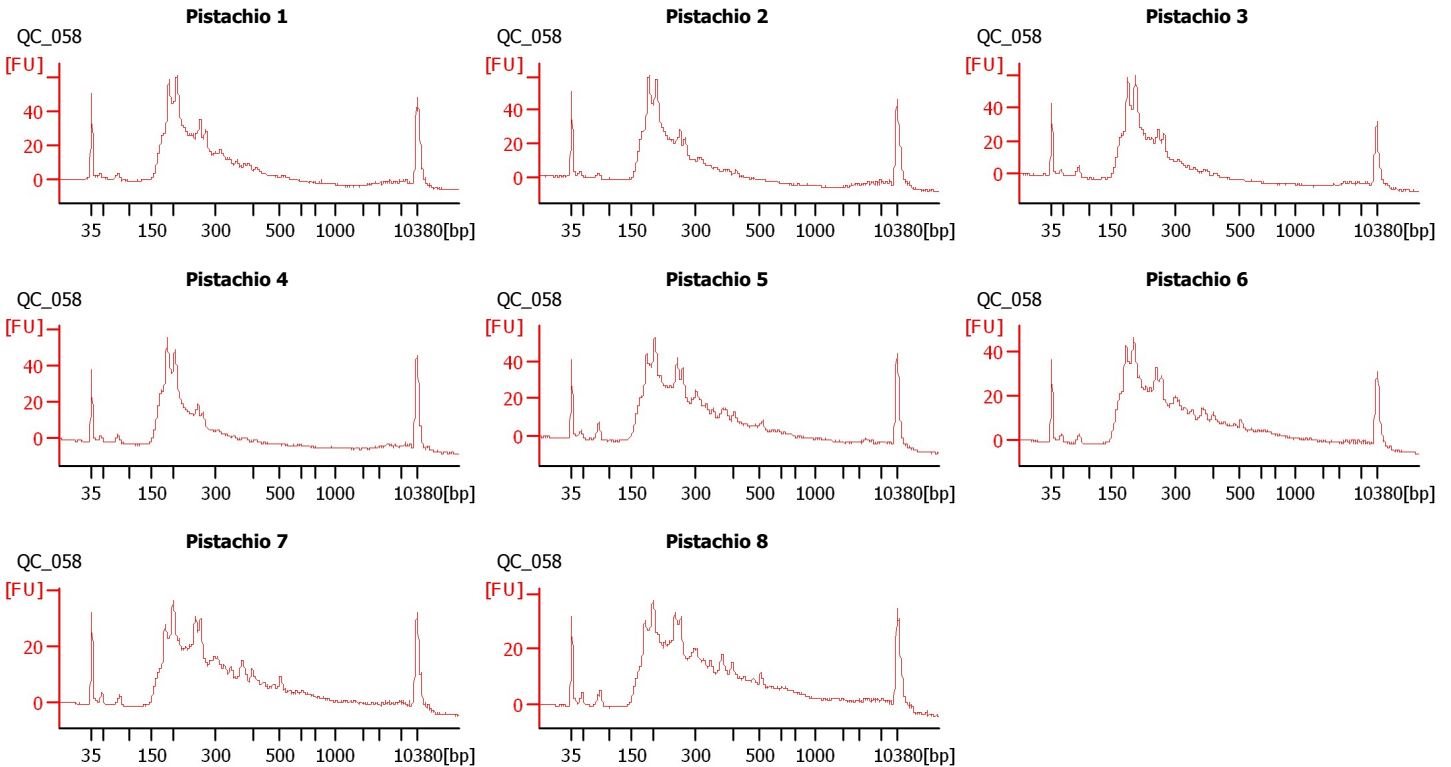
Assay Information:

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pistachio 1	QC_058	<input type="checkbox"/>	✓			
Pistachio 2	QC_058	<input type="checkbox"/>	✓			
Pistachio 3	QC_058	<input type="checkbox"/>	✓			
Pistachio 4	QC_058	<input type="checkbox"/>	✓			
Pistachio 5	QC_058	<input type="checkbox"/>	✓			
Pistachio 6	QC_058	<input type="checkbox"/>	✓			
Pistachio 7	QC_058	<input type="checkbox"/>	✓			
Pistachio 8	QC_058	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

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

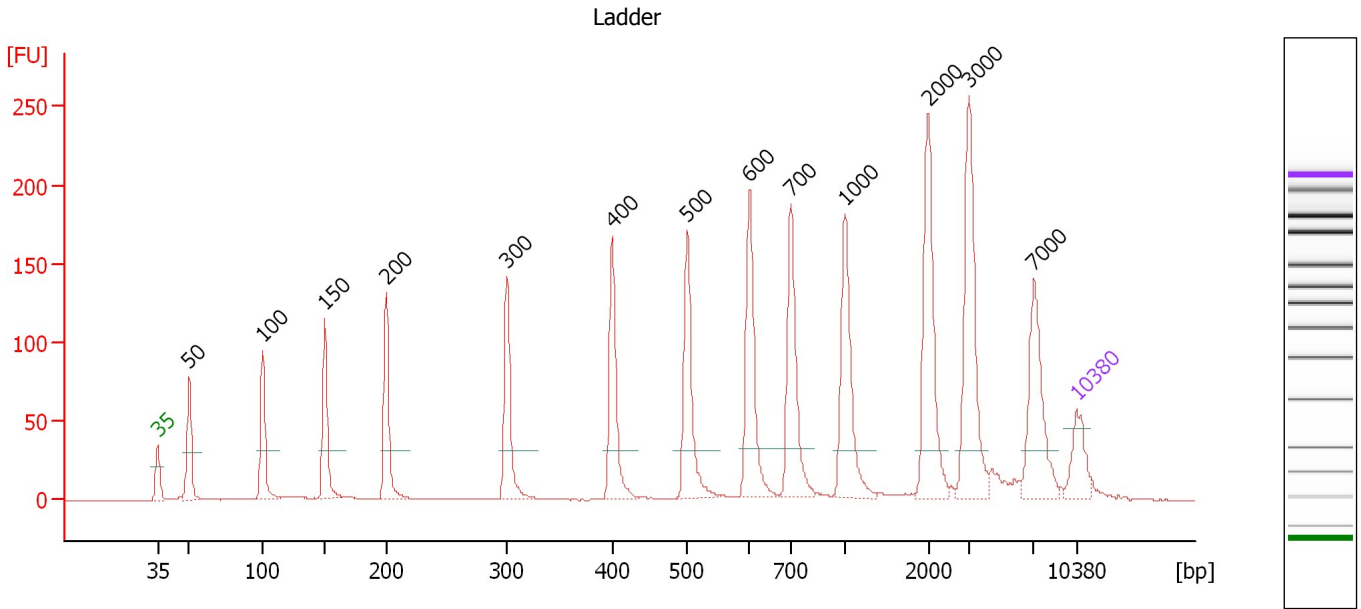
Ladder

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:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

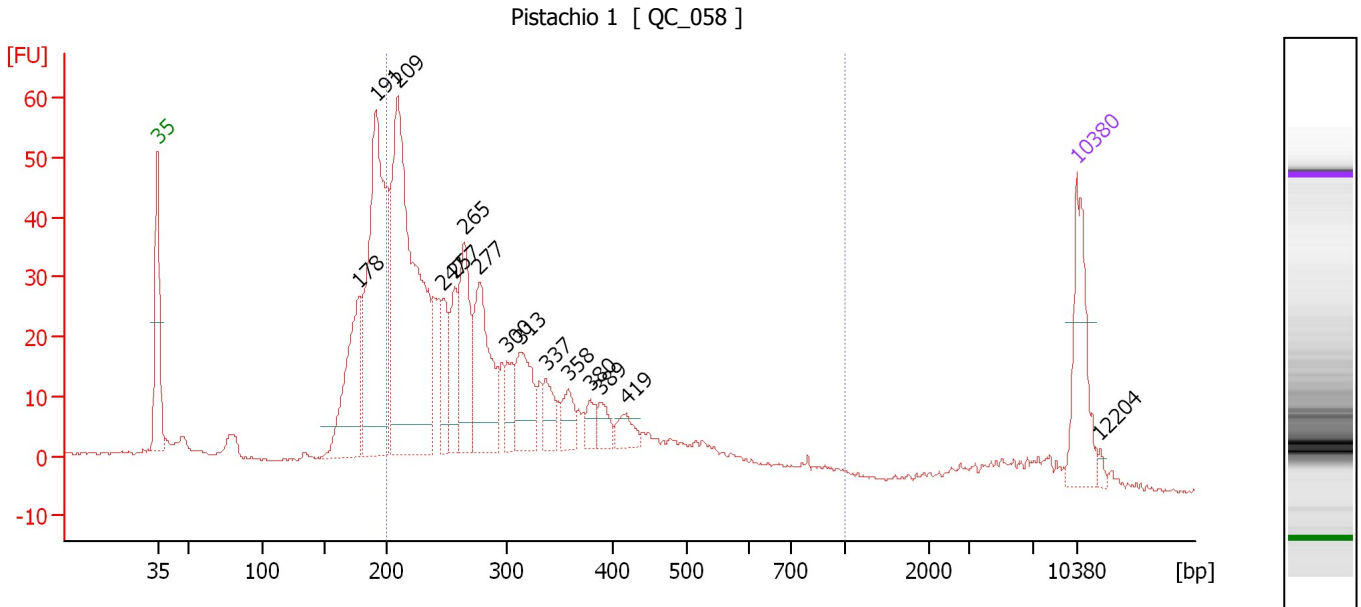
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.41
3	100	150.00	2,272.7	Ladder Peak	51.00
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.43
6	300	150.00	757.6	Ladder Peak	69.60
7	400	150.00	568.2	Ladder Peak	77.60
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	88.06
10	700	150.00	324.7	Ladder Peak	91.23
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.69
13	3,000	150.00	75.8	Ladder Peak	104.78
14	7,000	150.00	32.5	Ladder Peak	109.74
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Pistachio 1

Number of peaks found: 15 Corr. Area 1: 725.0
 Noise: 0.2

Peak table for sample 4 : Pistachio 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	178	158.84	1,353.1		58.35
3	191	391.47	3,100.0		59.62
4	209	510.22	3,692.6		61.29
5	247	59.23	362.9		64.77
6	257	60.43	356.7		65.63
7	265	119.74	685.8		66.35
8	277	137.48	751.0		67.52
9	300	37.32	188.4		69.60
10	313	75.87	367.2		70.64
11	337	32.08	144.1		72.58
12	358	29.85	126.3		74.25
13	380	19.04	76.0		75.97
14	389	20.53	79.9		76.74
15	419	21.96	79.4		78.68
16	10,380	75.00	10.9	Upper Marker	113.00
17	12,204	0.00	0.0		114.76

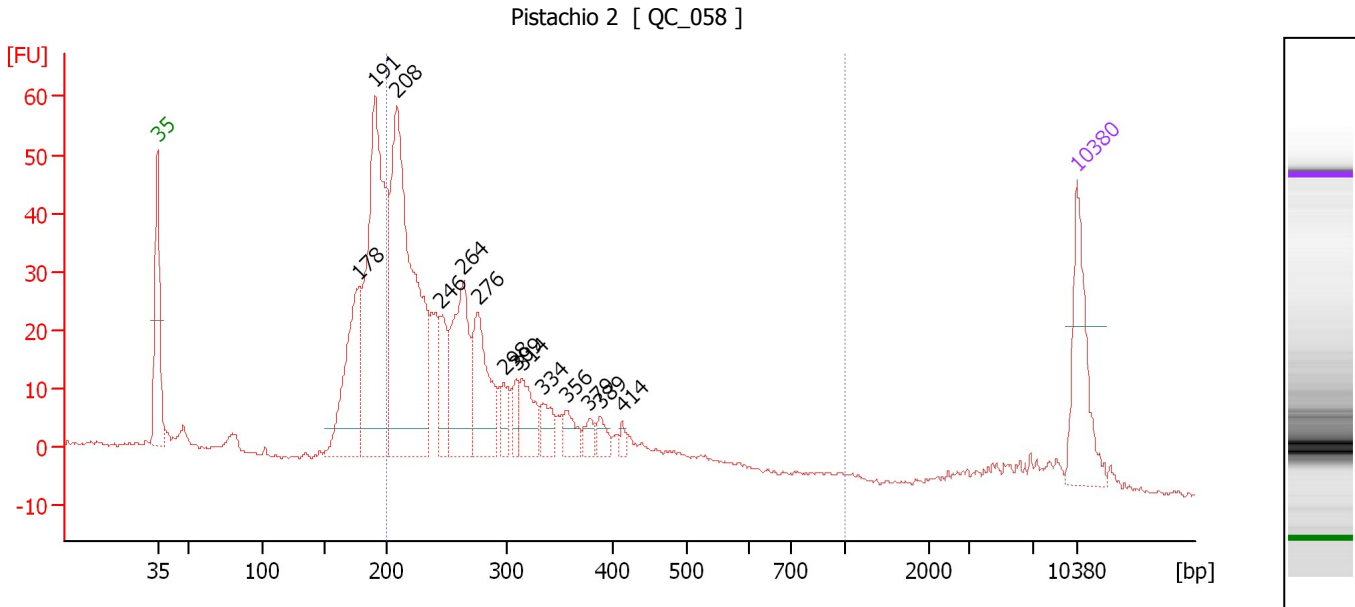
Region table for sample 4 : Pistachio 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	314	725.0	9,065.5	1,642.31	68	39.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Pistachio 2

Number of peaks found: 14 Corr. Area 1: 598.5
 Noise: 0.4

Peak table for sample 5 : Pistachio 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	178	163.55	1,395.4		58.33
3	191	403.91	3,209.8		59.56
4	208	466.45	3,392.9		61.19
5	246	60.90	375.8		64.60
6	264	147.21	845.2		66.29
7	276	113.86	625.5		67.38
8	298	26.14	133.1		69.38
9	309	23.00	112.7		70.34
10	314	50.51	243.5		70.75
11	334	28.76	130.4		72.34
12	356	25.91	110.2		74.11
13	379	14.51	58.1		75.88
14	389	16.20	63.1		76.70
15	414	6.82	25.0		78.39
16	10,380	75.00	10.9	Upper Marker	113.00

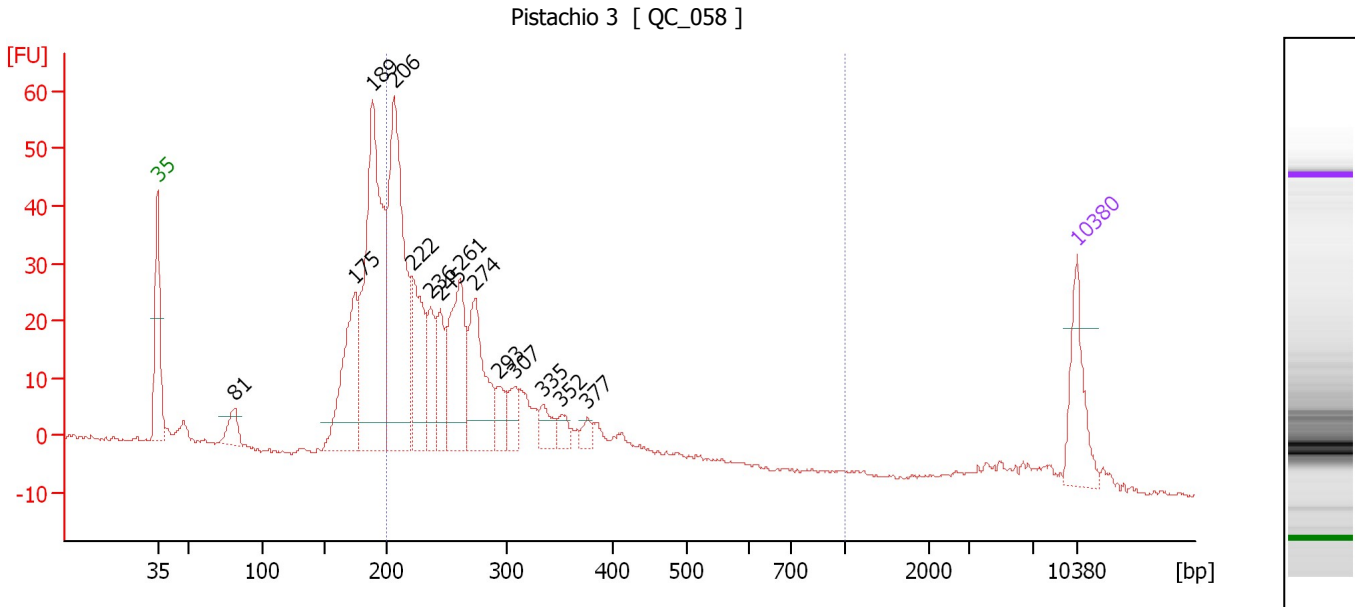
Region table for sample 5 : Pistachio 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	297	598.5	7,517.7	1,316.16	64	37.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Pistachio 3

Number of peaks found: 14 Corr. Area 1: 538.2
 Noise: 0.3

Peak table for sample 6 : Pistachio 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	45.65	857.4		48.84
3	175	223.18	1,935.6		58.06
4	189	511.88	4,107.9		59.38
5	206	454.45	3,343.2		60.98
6	222	153.59	1,048.7		62.44
7	236	77.92	499.5		63.76
8	245	83.43	516.4		64.54
9	261	190.20	1,103.1		66.04
10	274	170.38	943.3		67.19
11	293	41.00	212.3		68.92
12	307	38.91	192.1		70.15
13	335	34.02	153.9		72.39
14	352	22.74	97.9		73.76
15	377	15.49	62.3		75.72
16	10,380	75.00	10.9	Upper Marker	113.00

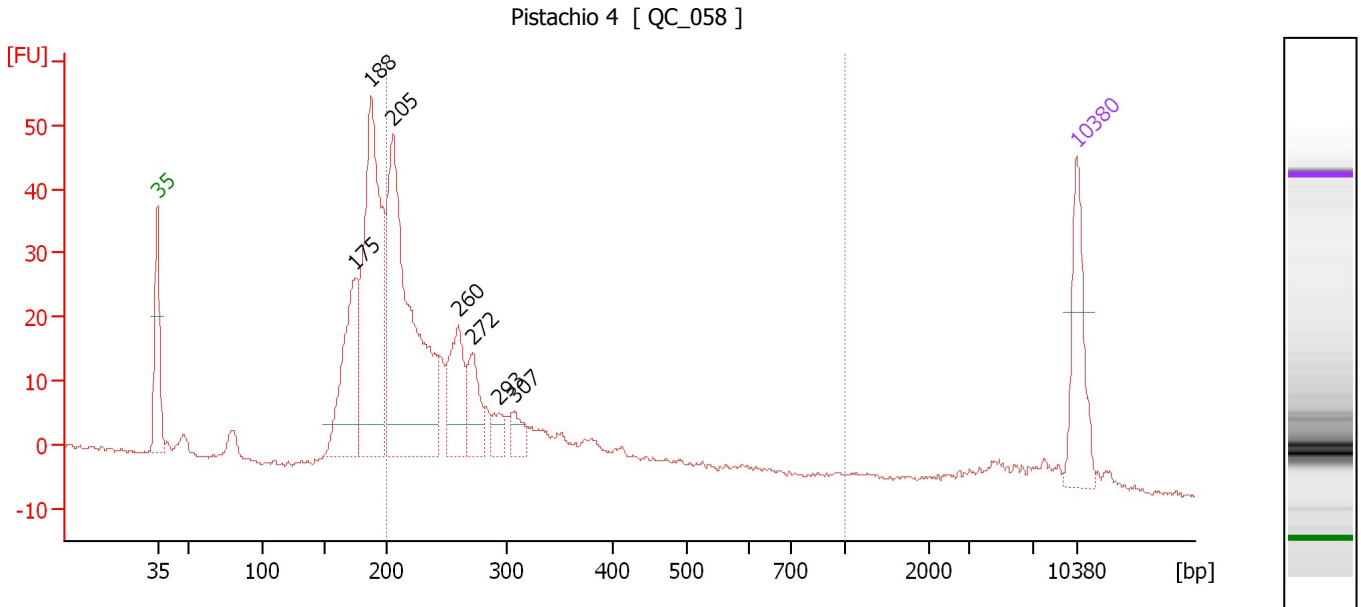
Region table for sample 6 : Pistachio 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	288	538.2	9,573.8	1,649.51	65	36.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Pistachio 4

Number of peaks found: 7 Corr. Area 1: 372.2
 Noise: 0.3

Peak table for sample 7 : Pistachio 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	175	177.57	1,539.0		58.07
3	188	391.64	3,163.4		59.27
4	205	472.37	3,484.8		60.93
5	260	103.01	601.0		65.90
6	272	64.31	358.5		67.01
7	293	22.42	115.8		68.99
8	307	27.10	133.8		70.14
9	10,380	75.00	10.9	Upper Marker	113.00

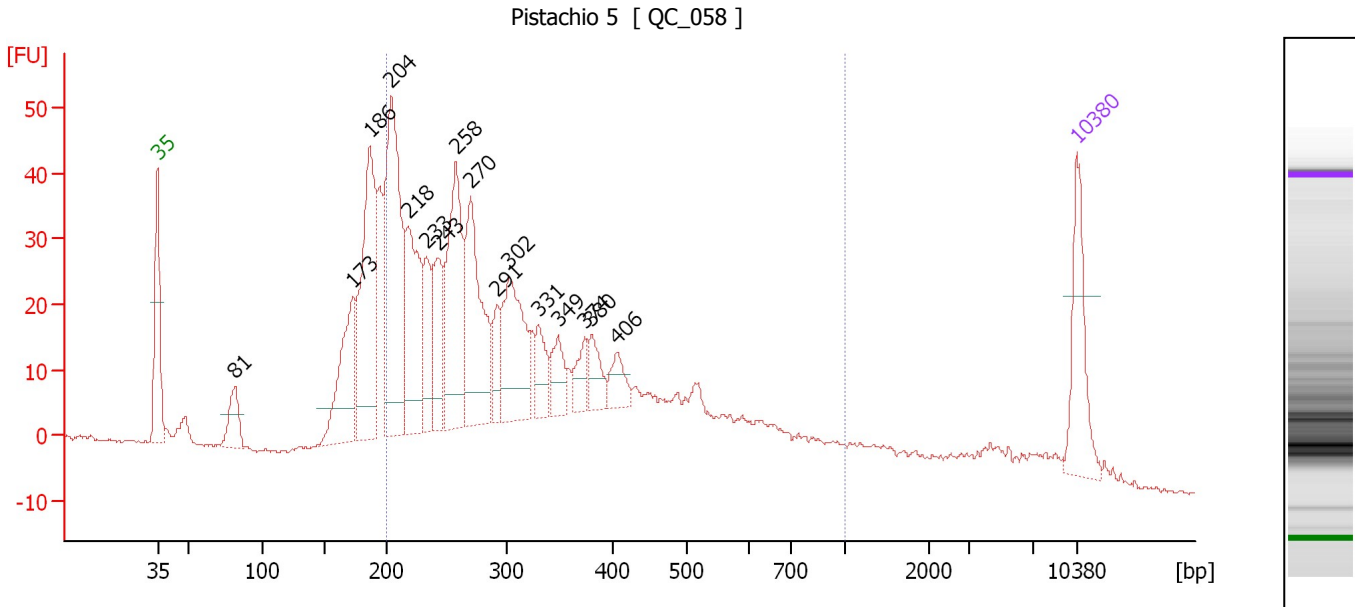
Region table for sample 7 : Pistachio 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	286	372.2	5,524.3	935.56	58	38.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Pistachio 5

Number of peaks found: 16 Corr. Area 1: 861.9
 Noise: 0.4

Peak table for sample 8 : Pistachio 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	81	53.10	991.9		48.89
3	173	150.27	1,316.7		57.89
4	186	258.39	2,101.9		59.14
5	204	314.08	2,331.0		60.81
6	218	175.81	1,222.9		62.07
7	233	78.43	510.0		63.46
8	243	85.98	535.8		64.39
9	258	202.65	1,191.0		65.73
10	270	197.57	1,108.9		66.84
11	291	38.83	202.0		68.79
12	302	147.27	740.0		69.72
13	331	41.85	191.9		72.04
14	349	42.01	182.6		73.48
15	374	31.14	126.1		75.52
16	380	33.87	134.9		76.03
17	406	31.30	116.8		77.93
18	10,380	75.00	10.9	Upper Marker	113.00

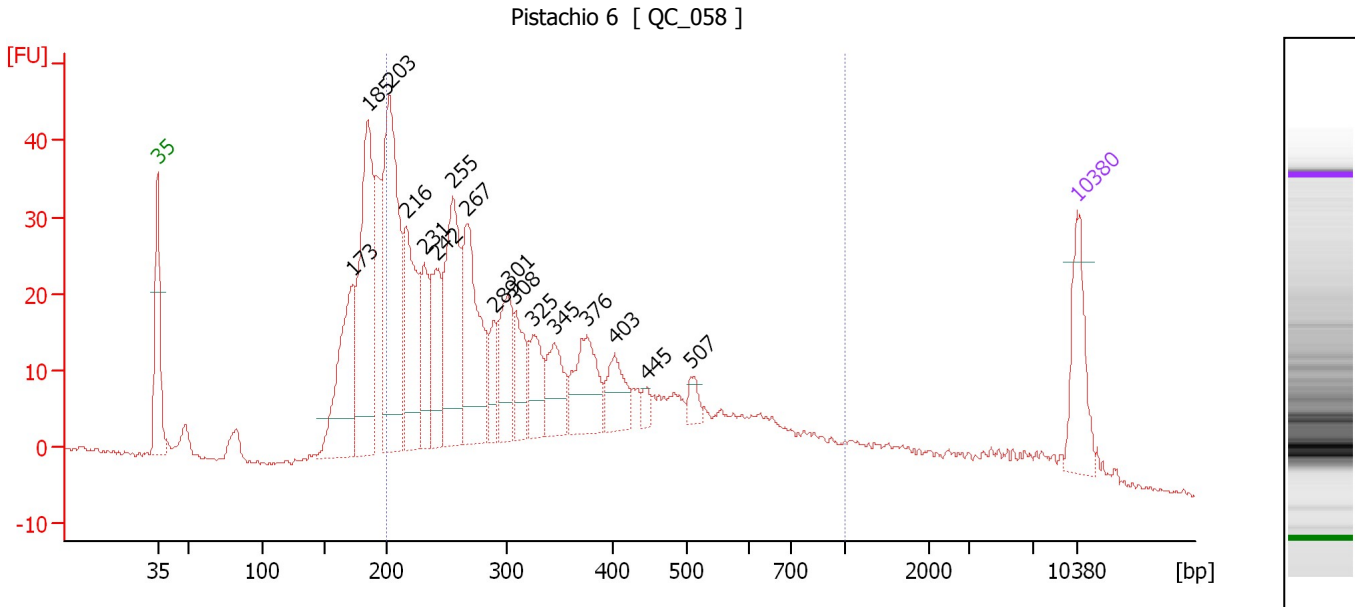
Region table for sample 8 : Pistachio 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	353	861.9	11,350.5	2,204.55	72	43.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Pistachio 6

Number of peaks found: 17 Corr. Area 1: 740.4
 Noise: 0.3

Peak table for sample 9 : Pistachio 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	173	209.92	1,838.6		57.90
3	185	326.72	2,678.5		59.01
4	203	378.91	2,833.4		60.67
5	216	188.77	1,322.5		61.92
6	231	97.67	639.5		63.31
7	242	111.24	697.9		64.24
8	255	220.73	1,313.5		65.44
9	267	214.13	1,216.3		66.55
10	289	45.68	239.1		68.63
11	301	101.29	509.4		69.70
12	308	69.55	342.0		70.25
13	325	69.73	325.2		71.59
14	345	76.31	335.5		73.17
15	376	104.95	422.4		75.71
16	403	59.69	224.2		77.79
17	445	14.04	47.8		80.20
18	507	19.11	57.1		83.67
19	10,380	75.00	10.9	Upper Marker	113.00

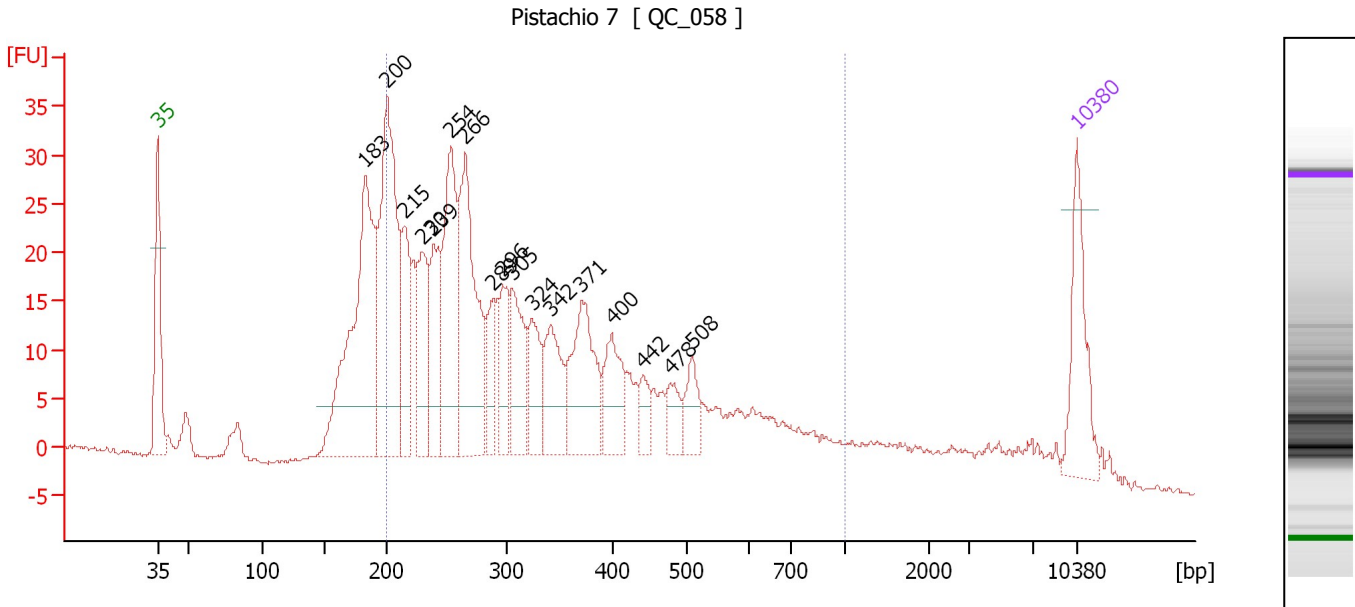
Region table for sample 9 : Pistachio 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	362	740.4	12,498.7	2,457.22	70	43.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Pistachio 7

Number of peaks found: 17 Corr. Area 1: 627.5
 Noise: 0.3

Peak table for sample 10 : Pistachio 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	183	359.46	2,978.9		58.82
3	200	317.87	2,402.3		60.48
4	215	95.68	674.1		61.81
5	230	100.21	661.3		63.14
6	239	101.00	640.0		64.02
7	254	180.60	1,078.7		65.35
8	266	224.63	1,280.8		66.46
9	289	48.17	252.7		68.57
10	296	67.23	343.7		69.26
11	305	91.27	453.4		70.00
12	324	66.51	311.0		71.52
13	342	83.72	371.1		72.94
14	371	129.61	529.1		75.29
15	400	69.67	264.0		77.59
16	442	25.20	86.5		79.98
17	478	28.59	90.7		82.05
18	508	36.46	108.7		83.70
19	10,380	75.00	10.9	Upper Marker	113.00

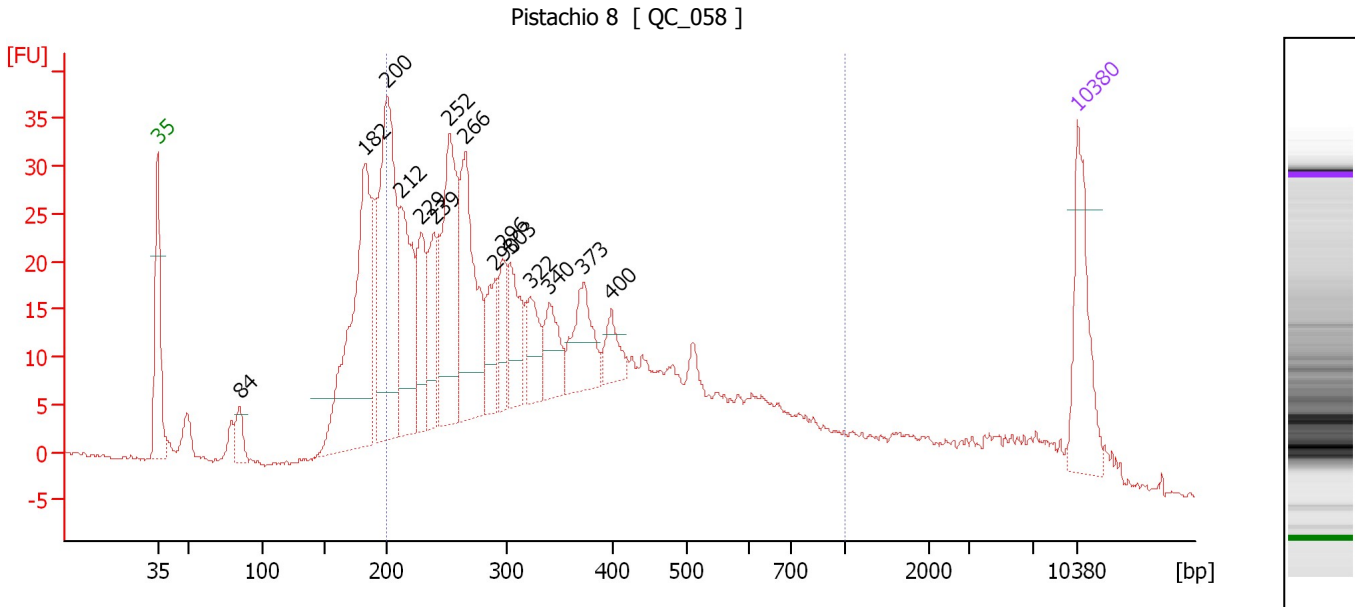
Region table for sample 10 : Pistachio 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	360	627.5	10,474.7	2,068.15	73	43.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Pistachio 8

Number of peaks found: 15 Corr. Area 1: 729.1
 Noise: 0.3

Peak table for sample 11 : Pistachio 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	84	27.34	491.2		49.25
3	182	291.71	2,425.4		58.76
4	200	266.82	2,022.8		60.42
5	212	142.60	1,019.7		61.52
6	229	80.68	533.9		63.09
7	239	65.09	411.8		64.05
8	252	190.88	1,147.6		65.20
9	266	166.39	949.3		66.44
10	290	49.24	257.1		68.69
11	296	41.10	210.3		69.24
12	303	61.04	305.2		69.84
13	322	46.37	218.2		71.36
14	340	47.29	210.5		72.83
15	373	67.01	272.1		75.45
16	400	29.79	113.0		77.56
17	10,380	75.00	10.9	Upper Marker	113.00

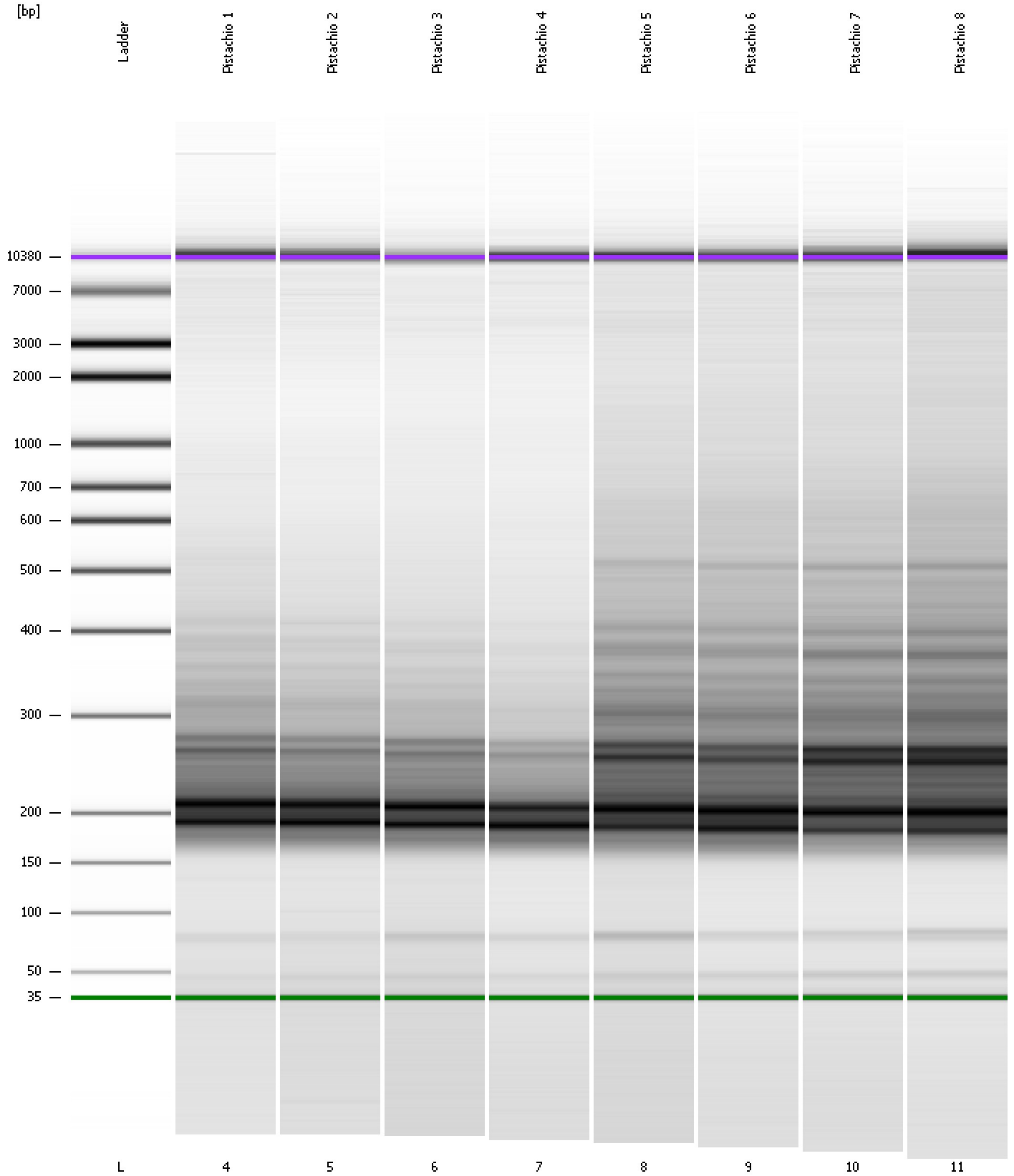
Region table for sample 11 : Pistachio 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	371	729.1	10,461.7	2,104.54	72	43.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
Modified: 12/3/2015 10:04:19 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...analyzer\2015-12-02\2015-12-02_007_Pistachio_1-8_QC_058.xad

Created: 12/2/2015 4:29:09 PM
 Modified: 12/3/2015 10:04:19 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/2/2015 5:09:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_007.xad)		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 4:29:15 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1