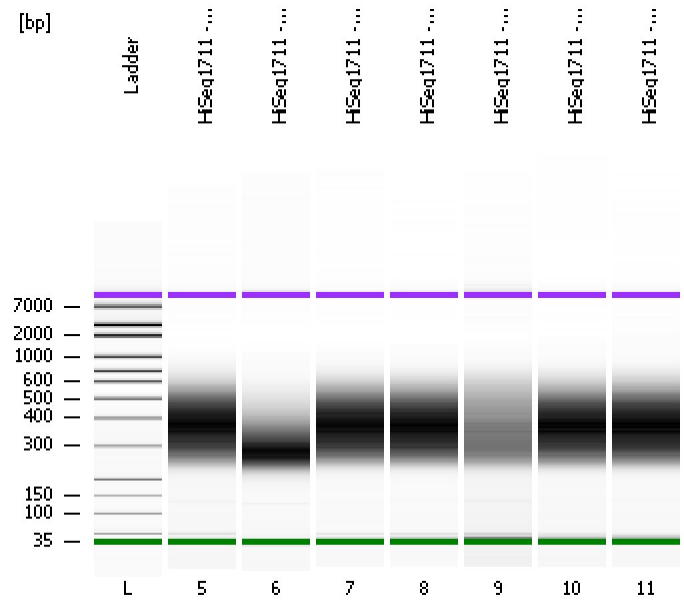
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

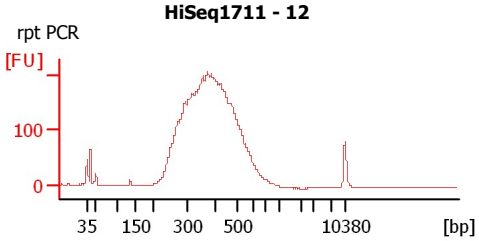
Assay Information:

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

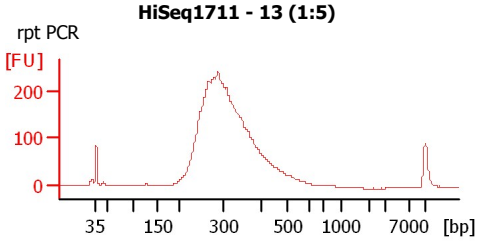
Chip Information:

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

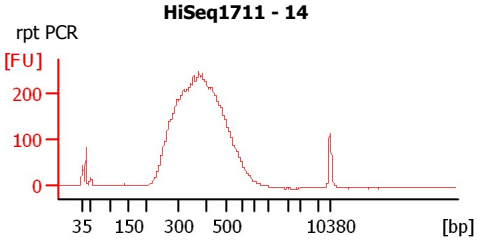
HiSeq1711 - 12



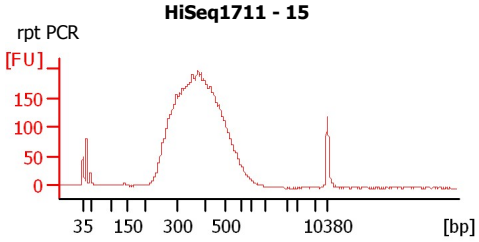
HiSeq1711 - 13 (1:5)



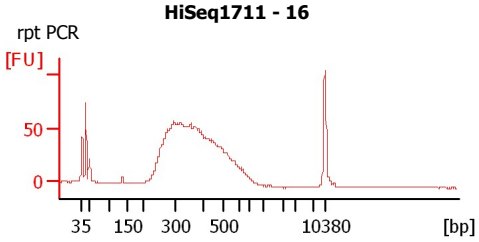
HiSeq1711 - 14



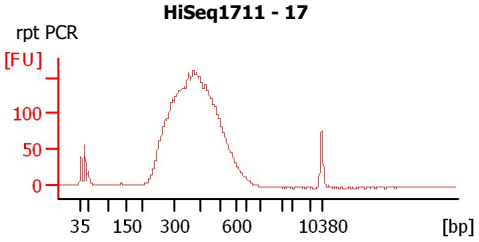
HiSeq1711 - 15



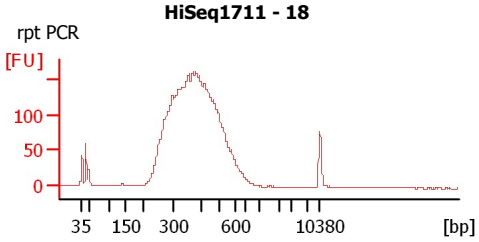
HiSeq1711 - 16



HiSeq1711 - 17



HiSeq1711 - 18



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HiSeq1711 - 12	rpt PCR	☐	✔			
HiSeq1711 - 13 (1:5)	rpt PCR	☐	✔			
HiSeq1711 - 14	rpt PCR	☐	✔			
HiSeq1711 - 15	rpt PCR	☐	✔			
HiSeq1711 - 16	rpt PCR	☐	✔			
HiSeq1711 - 17	rpt PCR	☐	✔			
HiSeq1711 - 18	rpt PCR	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 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

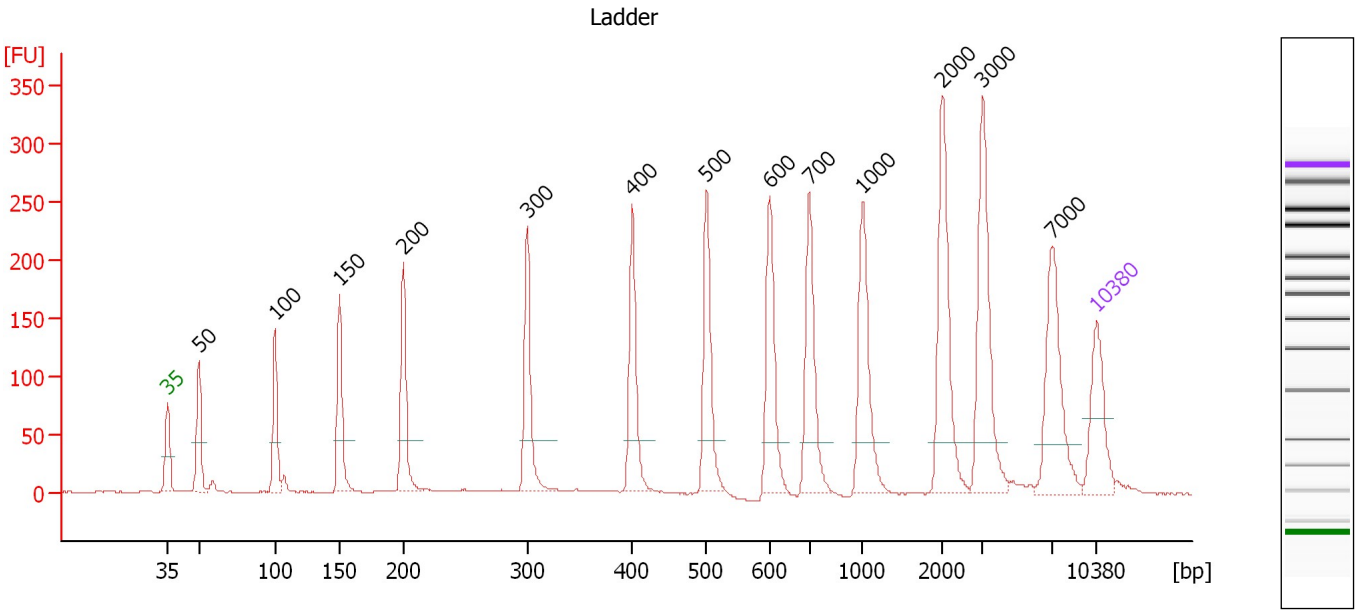
Ladder

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:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

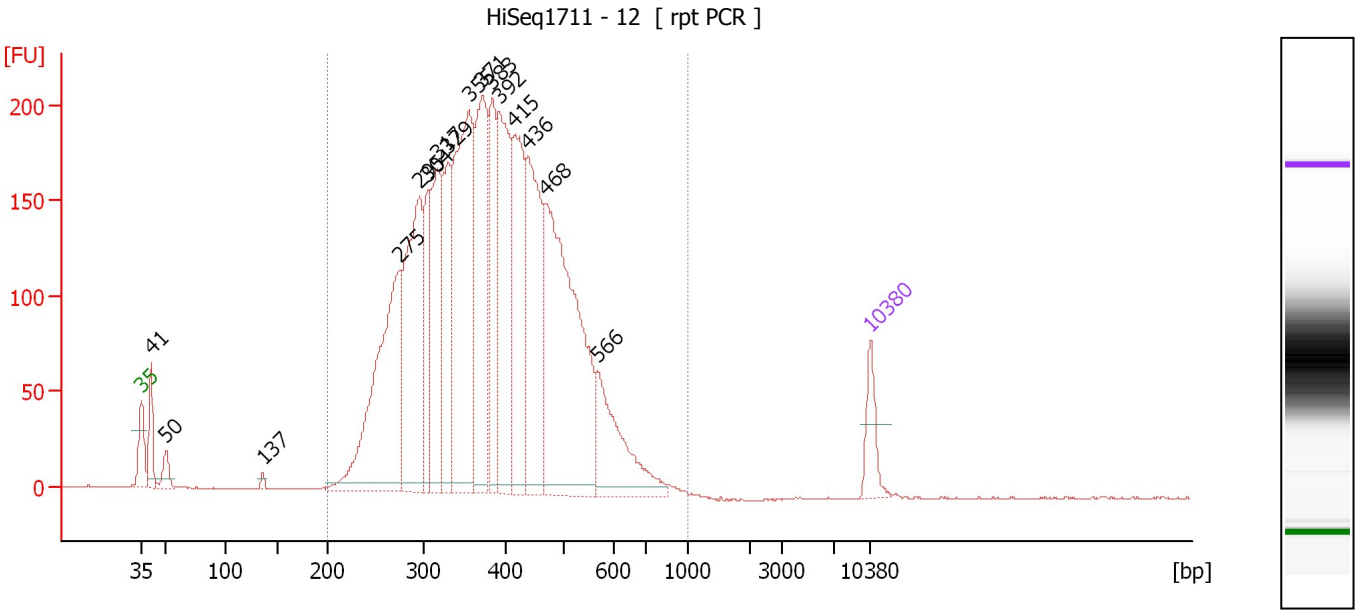
Peak table for Ladder

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	45.36
3		100	150.00	2,272.7	Ladder Peak	51.11
4		150	150.00	1,515.2	Ladder Peak	55.97
5		200	150.00	1,136.4	Ladder Peak	60.78
6		300	150.00	757.6	Ladder Peak	70.12
7		400	150.00	568.2	Ladder Peak	78.00
8		500	150.00	454.5	Ladder Peak	83.61
9		600	150.00	378.8	Ladder Peak	88.38
10		700	150.00	324.7	Ladder Peak	91.35
11		1,000	150.00	227.3	Ladder Peak	95.36
12		2,000	150.00	113.6	Ladder Peak	101.35
13		3,000	150.00	75.8	Ladder Peak	104.42
14		7,000	150.00	32.5	Ladder Peak	109.56
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq1711 - 12

Number of peaks found:	16	Corr. Area 1:	4,664.7
Noise:	0.3		

Peak table for sample 5 : HiSeq1711 - 12

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	41	137.26	5,090.2		43.92
3	50	63.86	1,936.3		45.35
4	137	12.58	139.6		54.67
5	275	795.27	4,376.6		67.82
6	295	675.87	3,470.9		69.66
7	304	237.88	1,186.2		70.43
8	317	395.73	1,892.3		71.45
9	329	321.00	1,477.4		72.42
10	355	841.81	3,591.1		74.47
11	371	529.20	2,158.8		75.75
12	383	297.82	1,177.8		76.67
13	392	503.38	1,947.9		77.33
14	415	447.63	1,635.9		78.82
15	436	502.49	1,744.3		80.05
16	468	973.97	3,150.7		81.84
17	566	288.63	772.9		86.75
18	10,380	75.00	10.9	Upper Marker	113.00

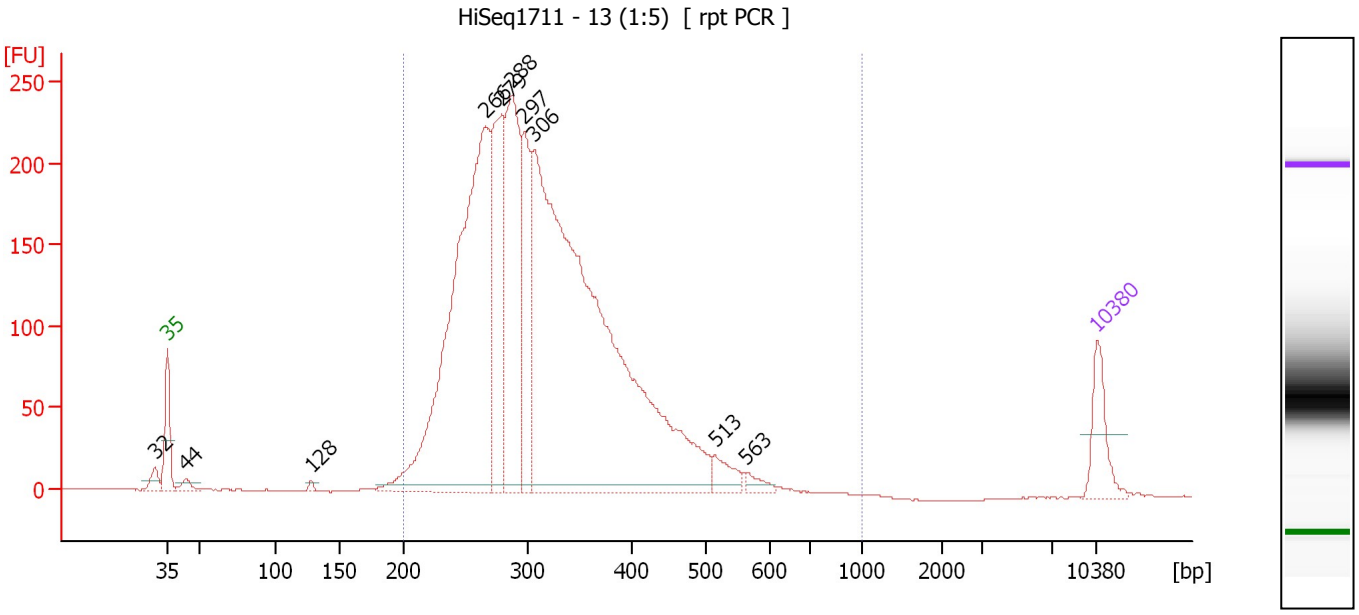
Region table for sample 5 : HiSeq1711 - 12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	391	6,838.27	4,664.7	28,735.7	98	24.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HiSeq1711 - 13 (1:5)

Number of peaks found:	10	Corr. Area 1:	3,908.0
Noise:	0.3		

Peak table for sample 6 : HiSeq1711 - 13 (1:5)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.04
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	21.14	731.3		44.38
4	128	7.75	91.6		53.86
5	266	1,332.68	7,588.8		66.95
6	279	405.99	2,203.3		68.18
7	288	535.47	2,819.7		68.98
8	297	251.55	1,281.5		69.88
9	306	2,135.28	10,558.7		70.63
10	513	48.85	144.1		84.25
11	563	22.27	60.0		86.60
12	10,380	75.00	10.9	Upper Marker	113.00

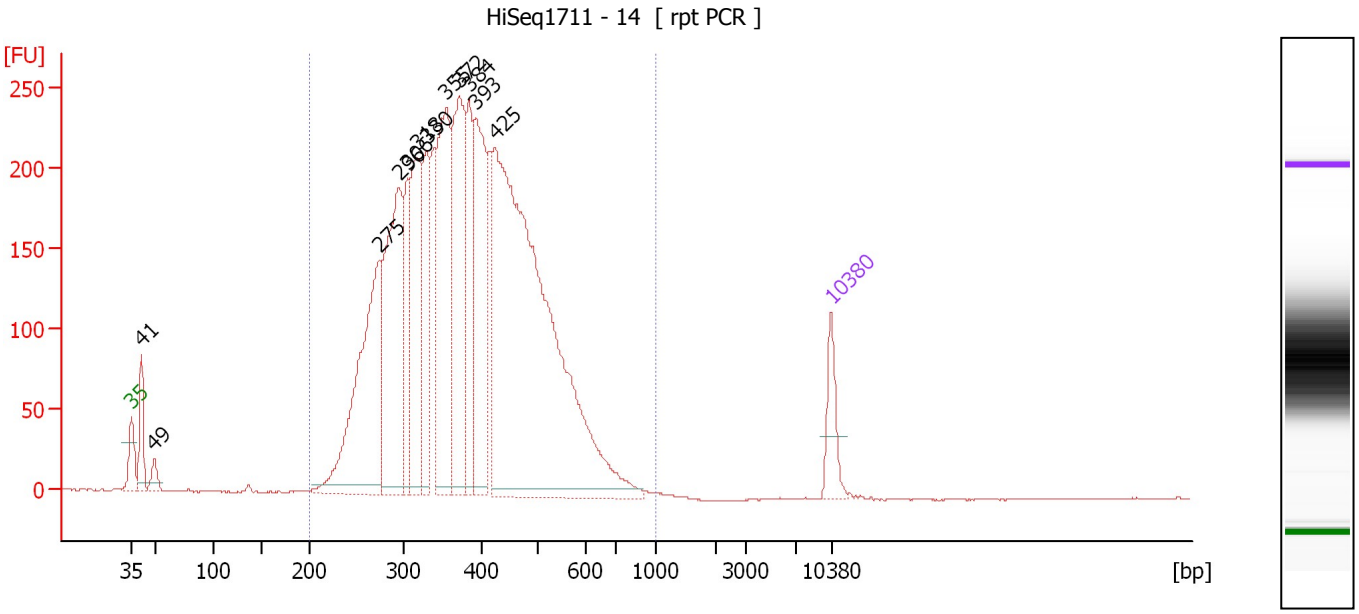
Region table for sample 6 : HiSeq1711 - 13 (1:5)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	318	4,495.89	3,908.0	22,581.7	99	21.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HiSeq1711 - 14

Number of peaks found:	12	Corr. Area 1:	5,476.2
Noise:	0.3		

Peak table for sample 7 : HiSeq1711 - 14

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	41	131.45	4,844.9		43.96
3	49	46.95	1,444.3		45.24
4	275	677.36	3,736.6		67.76
5	296	609.12	3,114.1		69.78
6	306	218.97	1,084.7		70.58
7	318	383.95	1,829.1		71.54
8	330	277.25	1,272.0		72.50
9	355	535.96	2,285.6		74.48
10	372	502.98	2,047.4		75.81
11	384	244.16	962.3		76.77
12	393	420.81	1,624.2		77.41
13	425	1,791.19	6,390.0		79.39
14	10,380	75.00	10.9	Upper Marker	113.00

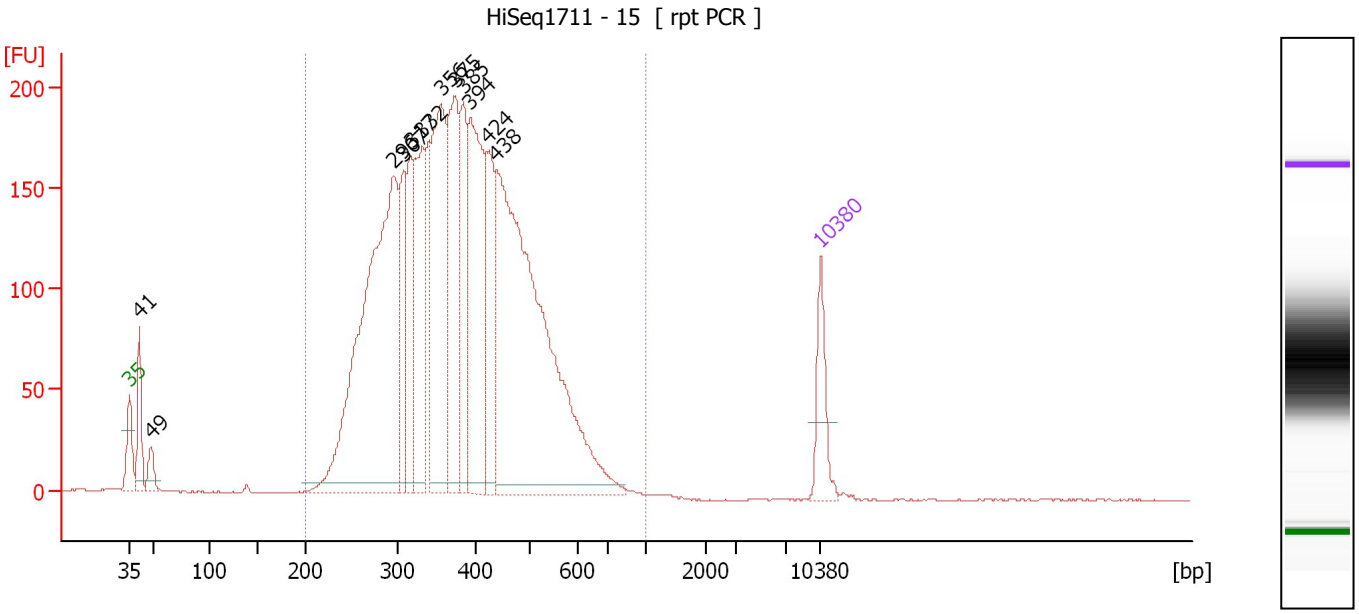
Region table for sample 7 : HiSeq1711 - 14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	390	5,812.26	5,476.1	24,473.8	98	24.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HiSeq1711 - 15

Number of peaks found:	12	Corr. Area 1:	4,416.8
Noise:	0.3		

Peak table for sample 8 : HiSeq1711 - 15

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	41	125.46	4,615.7		43.97
3	49	51.33	1,595.6		45.16
4	296	1,049.99	5,377.2		69.74
5	307	175.17	863.3		70.71
6	317	179.25	856.7		71.46
7	332	300.39	1,370.4		72.65
8	356	440.08	1,872.4		74.54
9	375	338.37	1,368.5		76.00
10	385	204.34	804.3		76.81
11	394	412.96	1,588.8		77.51
12	424	192.92	689.3		79.35
13	438	1,125.56	3,897.8		80.11
14	10,380	75.00	10.9	Upper Marker	113.00

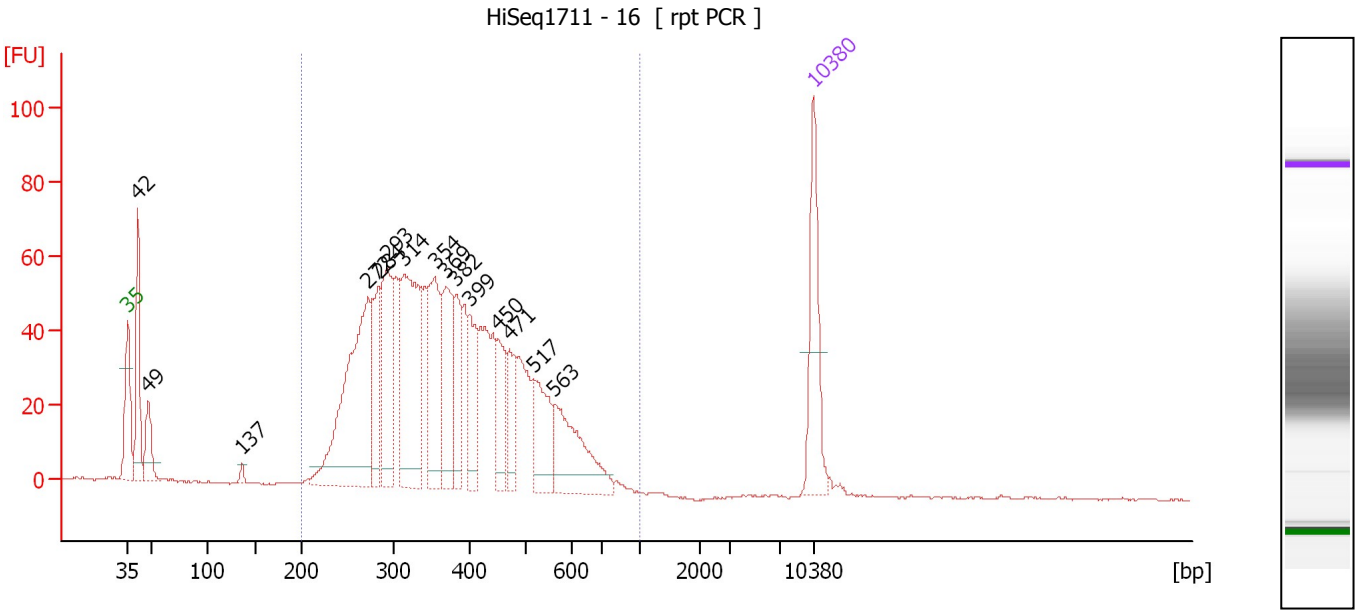
Region table for sample 8 : HiSeq1711 - 15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	388	4,590.49	4,416.8	19,414.5	97	24.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HiSeq1711 - 16

Number of peaks found:	15	Corr. Area 1:	1,439.4
Noise:	0.3		

Peak table for sample 9 : HiSeq1711 - 16

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	42	123.91	4,515.6		44.03
3	49	53.53	1,672.1		45.12
4	137	6.85	75.8		54.70
5	272	276.68	1,538.7		67.55
6	284	87.46	466.5		68.64
7	293	126.58	654.9		69.45
8	314	195.20	943.0		71.20
9	354	119.82	512.3		74.41
10	369	95.42	391.9		75.55
11	382	56.75	225.1		76.58
12	399	65.33	248.3		77.89
13	450	54.72	184.1		80.83
14	471	42.84	137.9		81.97
15	517	71.49	209.5		84.42
16	563	99.19	267.1		86.60
17	10,380	75.00	10.9	Upper Marker	113.00

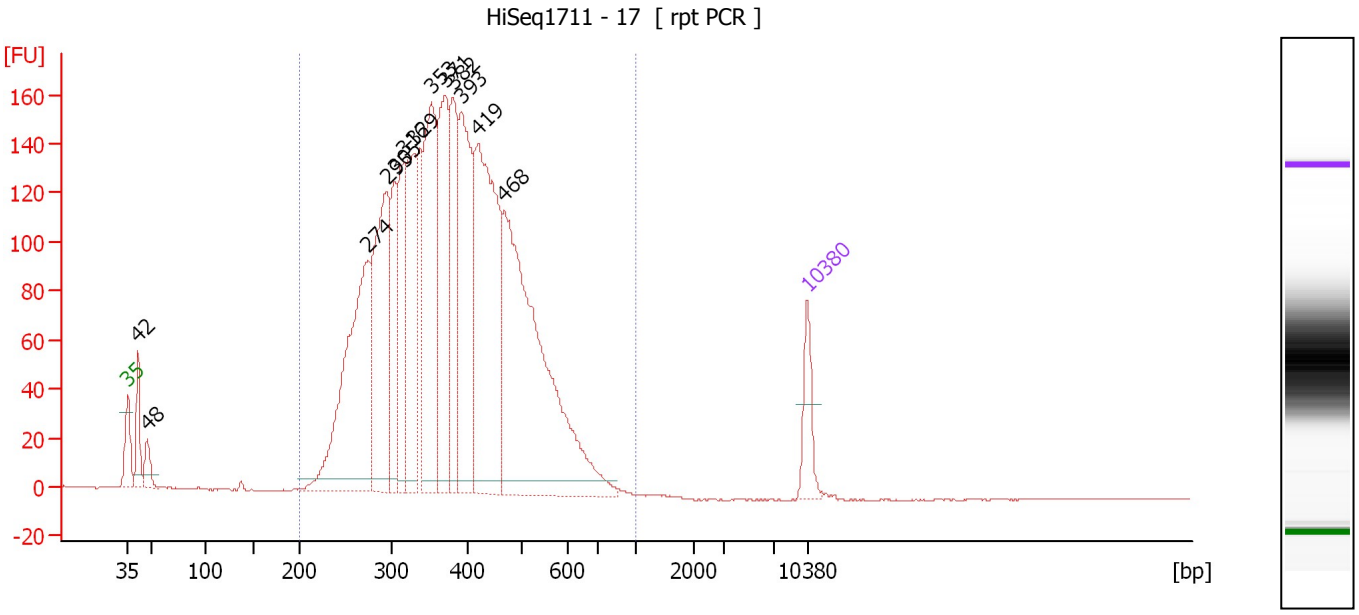
Region table for sample 9 : HiSeq1711 - 16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
200	1,000	383	1,636.00	1,439.4	7,149.1	92	27.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HiSeq1711 - 17

Number of peaks found:	13	Corr. Area 1:	3,571.3
Noise:	0.2		

Peak table for sample 10 : HiSeq1711 - 17

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	42	126.46	4,563.9		44.10
3	48	67.49	2,134.0		45.03
4	274	727.10	4,018.8		67.71
5	295	541.06	2,776.2		69.68
6	305	215.05	1,068.8		70.51
7	316	237.98	1,141.0		71.38
8	329	392.26	1,805.1		72.43
9	353	502.01	2,155.0		74.29
10	371	414.27	1,691.5		75.72
11	382	299.25	1,188.4		76.55
12	393	464.81	1,793.5		77.42
13	419	727.58	2,630.6		79.07
14	468	1,015.63	3,288.3		81.82
15	10,380	75.00	10.9	Upper Marker	113.00

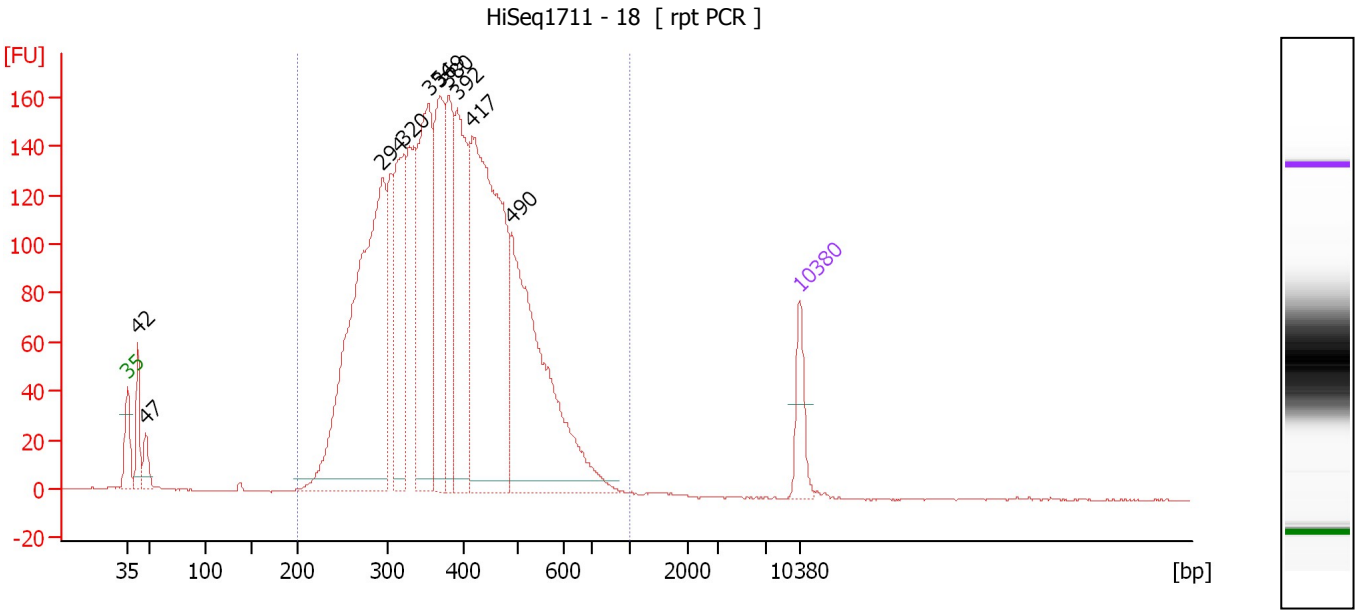
Region table for sample 10 : HiSeq1711 - 17

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	387	5,658.61	3,571.3	23,989.7	97	24.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq1711 - 18

Number of peaks found:	10	Corr. Area 1:	3,692.7
Noise:	0.3		

Peak table for sample 11 : HiSeq1711 - 18

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	42	132.12	4,798.9		44.06
3	47	71.25	2,296.4		44.89
4	294	1,228.98	6,335.2		69.56
5	320	401.80	1,900.7		71.72
6	354	585.57	2,505.2		74.39
7	369	386.16	1,585.8		75.56
8	380	291.76	1,162.5		76.44
9	392	439.48	1,697.6		77.39
10	417	994.78	3,616.0		78.94
11	490	770.41	2,381.9		83.06
12	10,380	75.00	10.9	Upper Marker	113.00

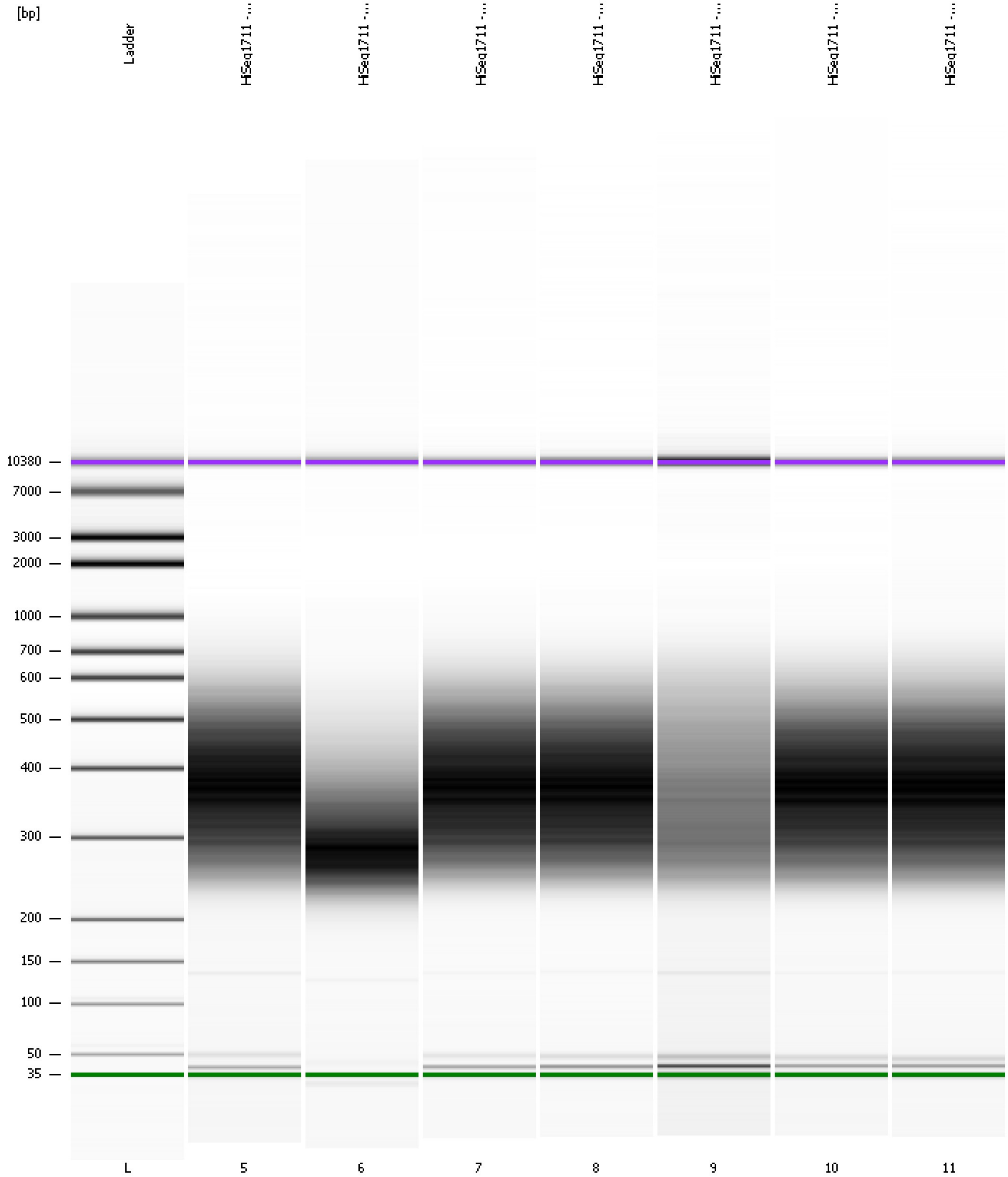
Region table for sample 11 : HiSeq1711 - 18

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	390	5,629.41	3,692.7	23,818.3	97	25.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...9-04-11\2019-04-11_001_HiSeq1711_Koleski_LibQC_EJK12-18.xad

Created: 4/11/2019 12:05:21 PM
Modified: 5/2/2019 1:46:22 PM

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		4/11/2019 12:46:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-11\2019-04-11_001.xad)		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2019 12:05:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1