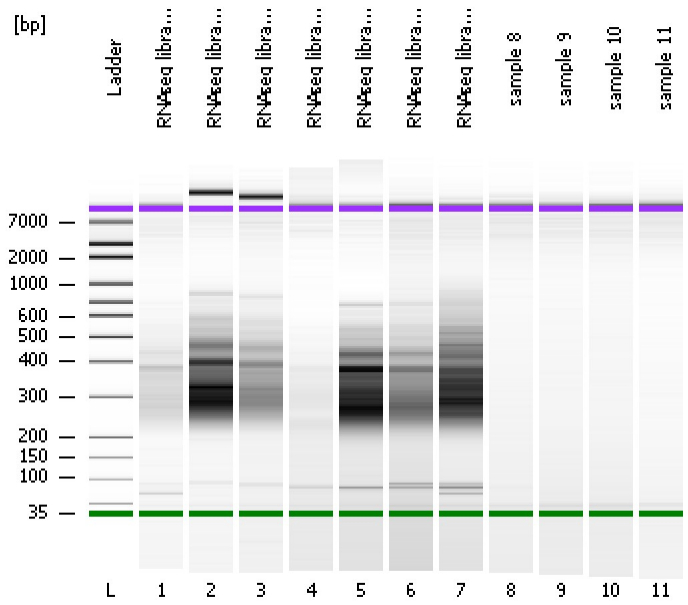
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electrophoresis File Run Summary



Instrument Information:

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

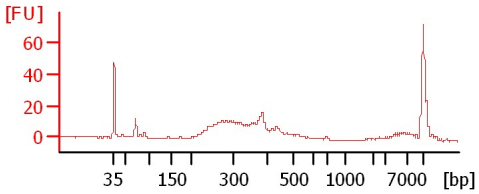
Assay Information:

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

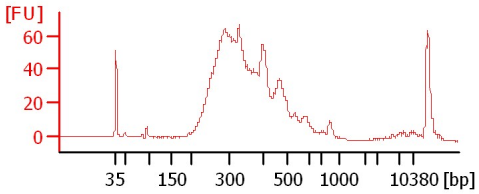
Chip Information:

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

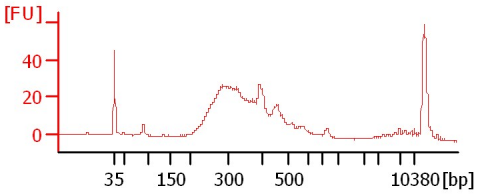
RNAseq library OVA1



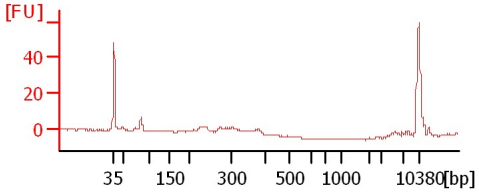
RNAseq library OVA2



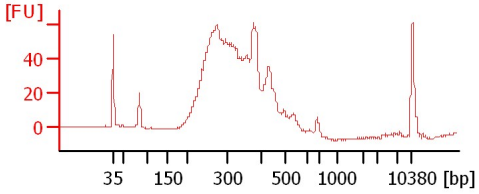
RNAseq library OVA3



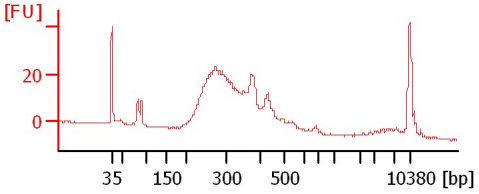
RNAseq library SAL1



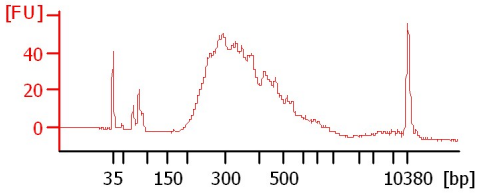
RNAseq library SAL2



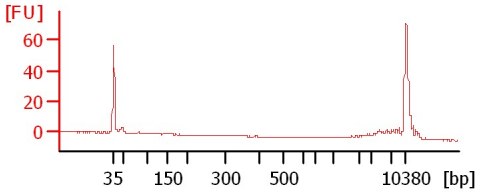
RNAseq library SAL3



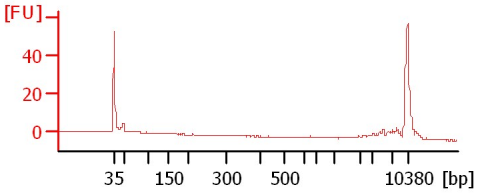
RNAseq library pos ctrl



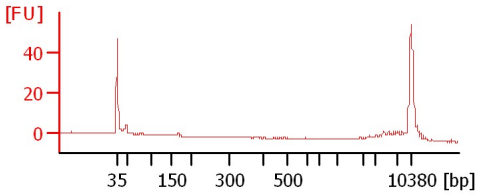
sample 8



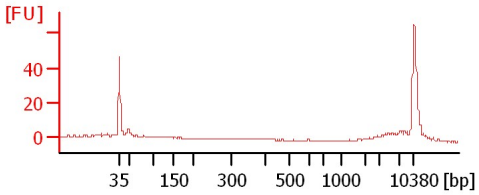
sample 9



sample 10



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RNAseq library OVA1		☐	✔			
RNAseq library OVA2		☐	✔			
RNAseq library OVA3		☐	✔			
RNAseq library SAL1		☐	✔			
RNAseq library SAL2		☐	✔			
RNAseq library SAL3		☐	✔			
RNAseq library pos ctrl		☐	✔			
sample 8		☐	✔			
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\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 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

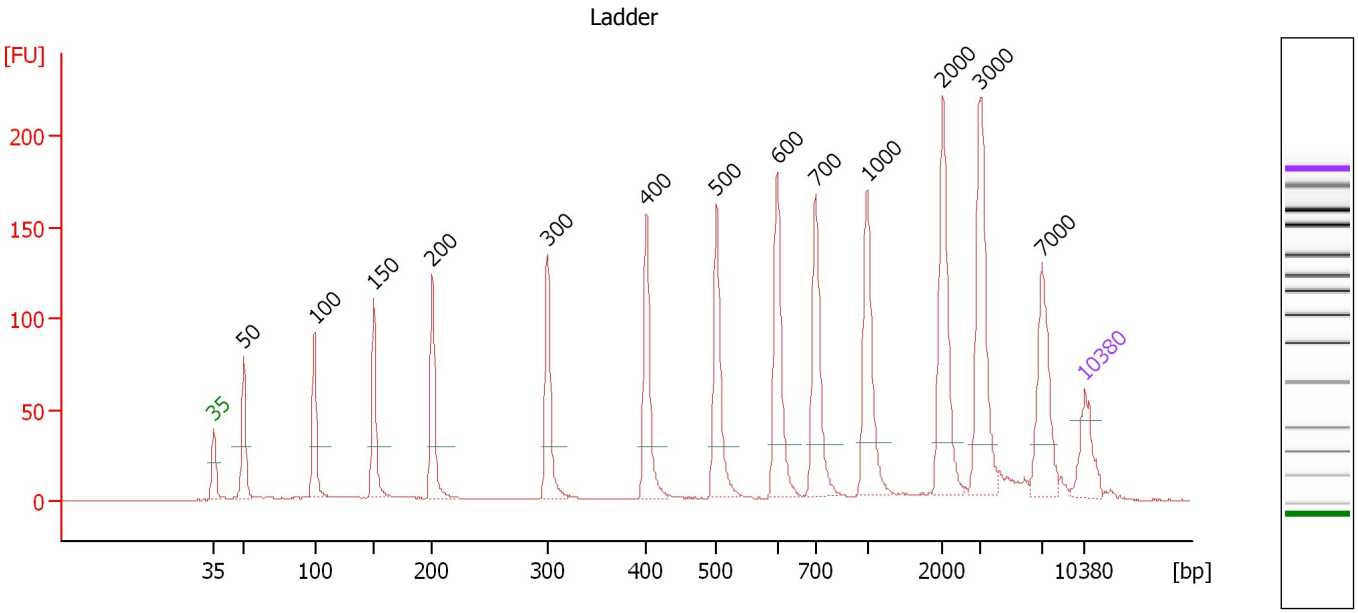
Ladder

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:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

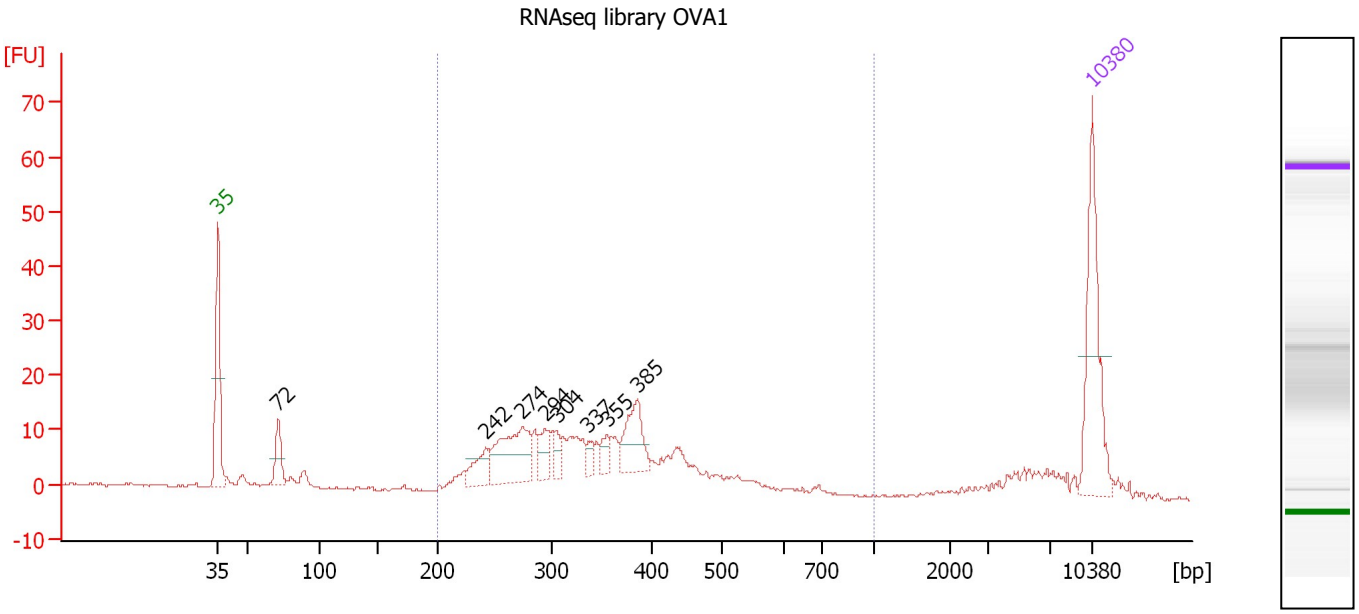
Peak table for Ladder

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	45.40
3		100	150.00	2,272.7	Ladder Peak	51.10
4		150	150.00	1,515.2	Ladder Peak	55.85
5		200	150.00	1,136.4	Ladder Peak	60.56
6		300	150.00	757.6	Ladder Peak	69.77
7		400	150.00	568.2	Ladder Peak	77.74
8		500	150.00	454.5	Ladder Peak	83.40
9		600	150.00	378.8	Ladder Peak	88.24
10		700	150.00	324.7	Ladder Peak	91.37
11		1,000	150.00	227.3	Ladder Peak	95.48
12		2,000	150.00	113.6	Ladder Peak	101.56
13		3,000	150.00	75.8	Ladder Peak	104.60
14		7,000	150.00	32.5	Ladder Peak	109.53
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNAseq library OVA1

Number of peaks found:	8	Corr. Area 1:	267.9
Noise:	0.3		

Peak table for sample 1 : RNAseq library OVA1

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	72	33.55	709.8		47.86
3	242	29.40	184.3		64.41
4	274	82.74	457.9		67.36
5	294	23.05	118.9		69.19
6	304	14.47	72.0		70.13
7	337	9.18	41.3		72.69
8	355	13.49	57.5		74.18
9	385	45.15	177.5		76.57
10	10,380	75.00	10.9	Upper Marker	113.00

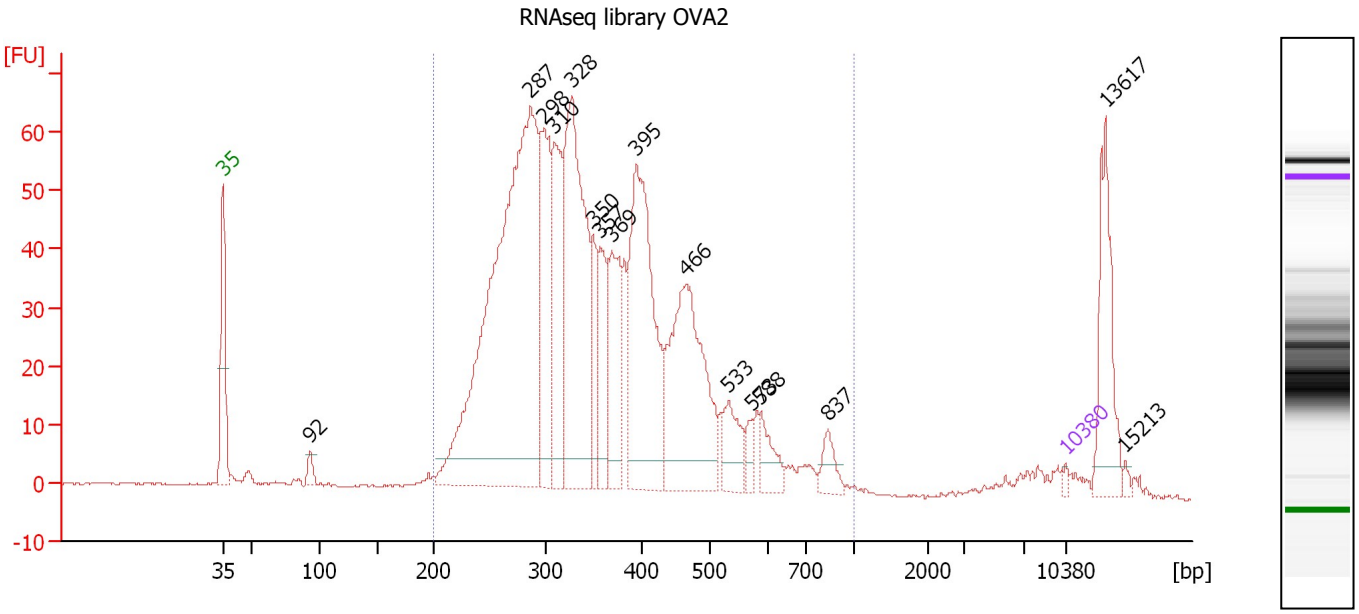
Region table for sample 1 : RNAseq library OVA1

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	350	267.9	2,213.9	471.51	81	25.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNAseq library OVA2

Number of peaks found:	16	Corr. Area 1:	1,359.7
Noise:	0.2		

Peak table for sample 2 : RNAseq library OVA2

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	92	351.62	5,770.7		50.22
3	287	18,765.51	99,121.1		68.56
4	298	4,028.66	20,456.5		69.63
5	310	3,457.38	16,908.3		70.56
6	328	7,852.51	36,255.4		72.02
7	350	1,420.14	6,150.4		73.75
8	357	1,841.30	7,813.0		74.32
9	369	2,442.87	10,022.3		75.30
10	395	6,635.60	25,460.4		77.34
11	466	5,742.03	18,683.4		81.46
12	533	1,108.55	3,150.7		85.00
13	573	339.45	897.0		86.95
14	588	727.42	1,874.4		87.66
15	837	522.84	946.7		93.24
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,617	0.00	0.0		116.32
18	15,213	0.00	0.0		117.96

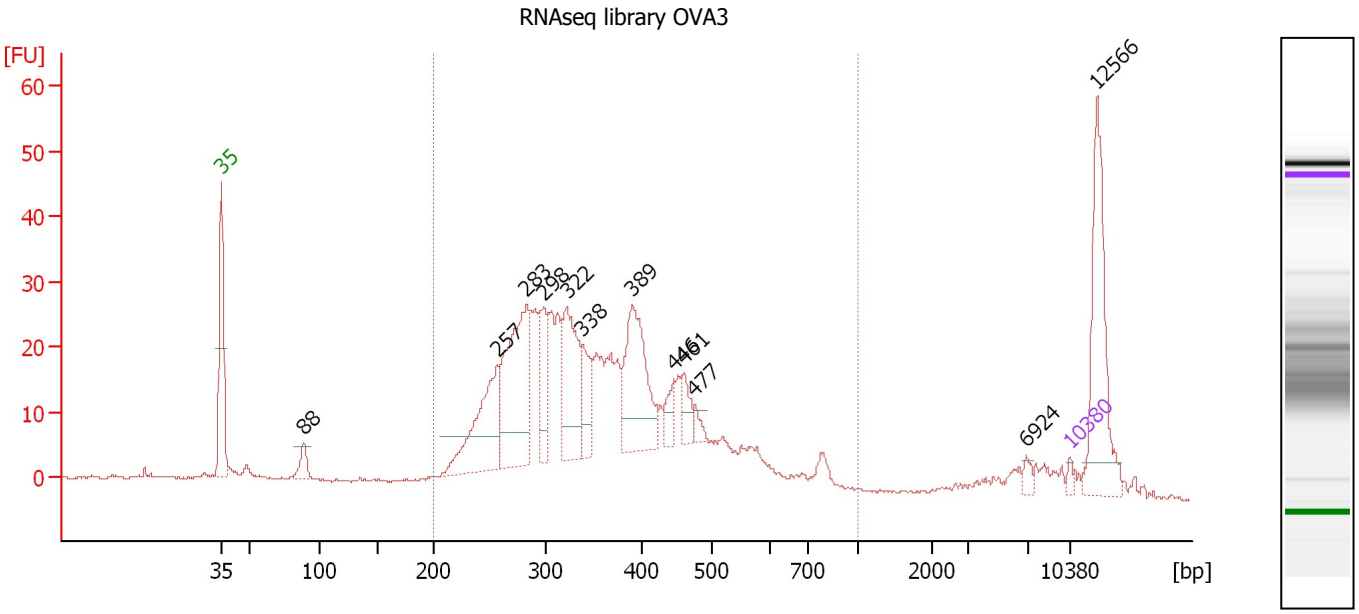
Region table for sample 2 : RNAseq library OVA2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	367	1,359.7	268,334.7	58,731.46	91	30.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNAseq library OVA3

Number of peaks found:	12	Corr. Area 1:	628.7
Noise:	0.2		

Peak table for sample 3 : RNAseq library OVA3

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	88	381.43	6,537.1		49.78
3	257	2,304.70	13,601.0		65.79
4	283	3,286.99	17,626.9		68.17
5	298	1,000.10	5,087.9		69.57
6	322	1,909.80	8,992.5		71.51
7	338	704.70	3,160.9		72.79
8	389	2,234.64	8,700.6		76.88
9	446	351.96	1,195.2		80.35
10	461	388.72	1,277.7		81.19
11	477	170.32	541.6		82.07
12	6,924	109.56	24.0		109.44
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,566	0.00	0.0		115.24

Region table for sample 3 : RNAseq library OVA3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	370	628.7	112,347.0	24,715.59	81	30.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
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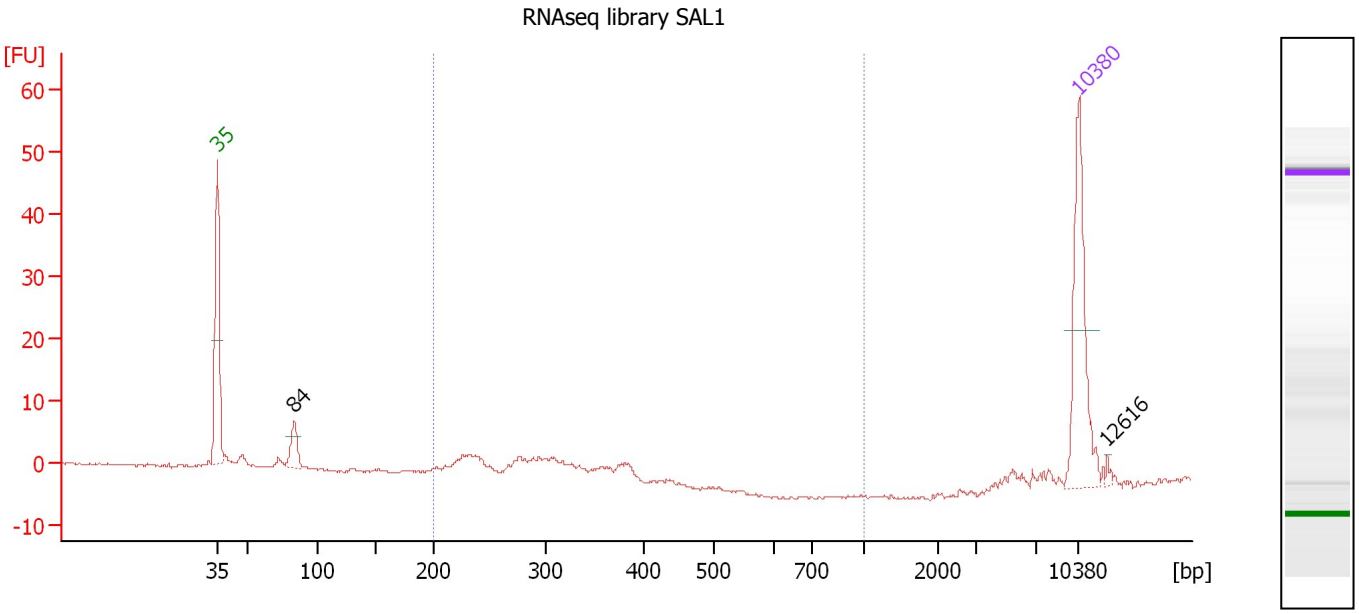


Overall Results for sample 4 : RNAseq library SAL1

Number of peaks found:	2	Corr. Area 1:	21.2
Noise:	0.2		

Peak table for sample 4 : RNAseq library SAL1

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	26.52	477.9		49.28
3	10,380	75.00	10.9	Upper Marker	113.00
4	12,616	0.00	0.0		115.30

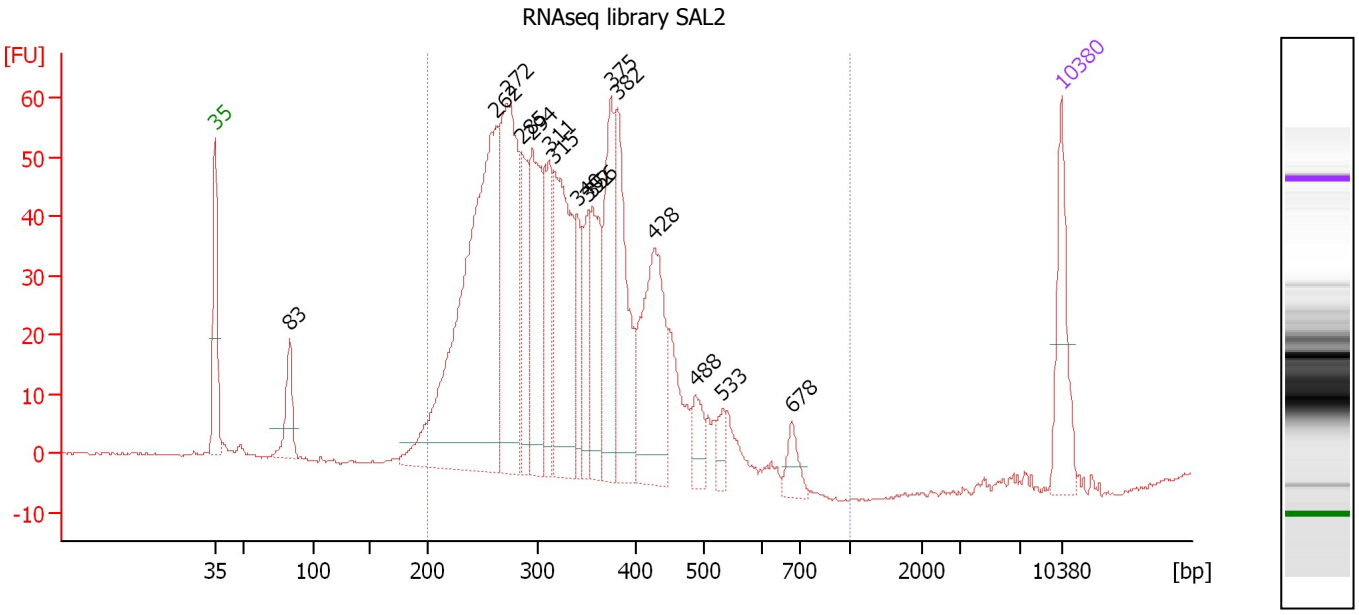
Region table for sample 4 : RNAseq library SAL1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	283	21.2	241.7	43.99	55	16.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RNAseq library SAL2

Number of peaks found:	16	Corr. Area 1:	1,248.7
Noise:	0.2		

Peak table for sample 5 : RNAseq library SAL2

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		83	74.19	1,352.1		49.18
3		262	673.69	3,893.7		66.29
4		272	324.54	1,809.6		67.17
5		285	111.55	593.7		68.36
6		294	186.53	960.5		69.24
7		311	122.70	598.7		70.61
8		315	253.33	1,216.6		71.01
9		340	69.28	308.9		72.95
10		352	67.44	290.3		73.92
11		356	125.67	535.0		74.23
12		375	148.03	597.7		75.77
13		382	186.17	738.6		76.30
14		428	202.56	716.5		79.35
15		488	36.75	114.0		82.74
16		533	19.36	55.0		84.99
17		678	27.35	61.1		90.68
18	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : RNAseq library SAL2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	331	1,248.7	12,342.2	2,513.06	96	23.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

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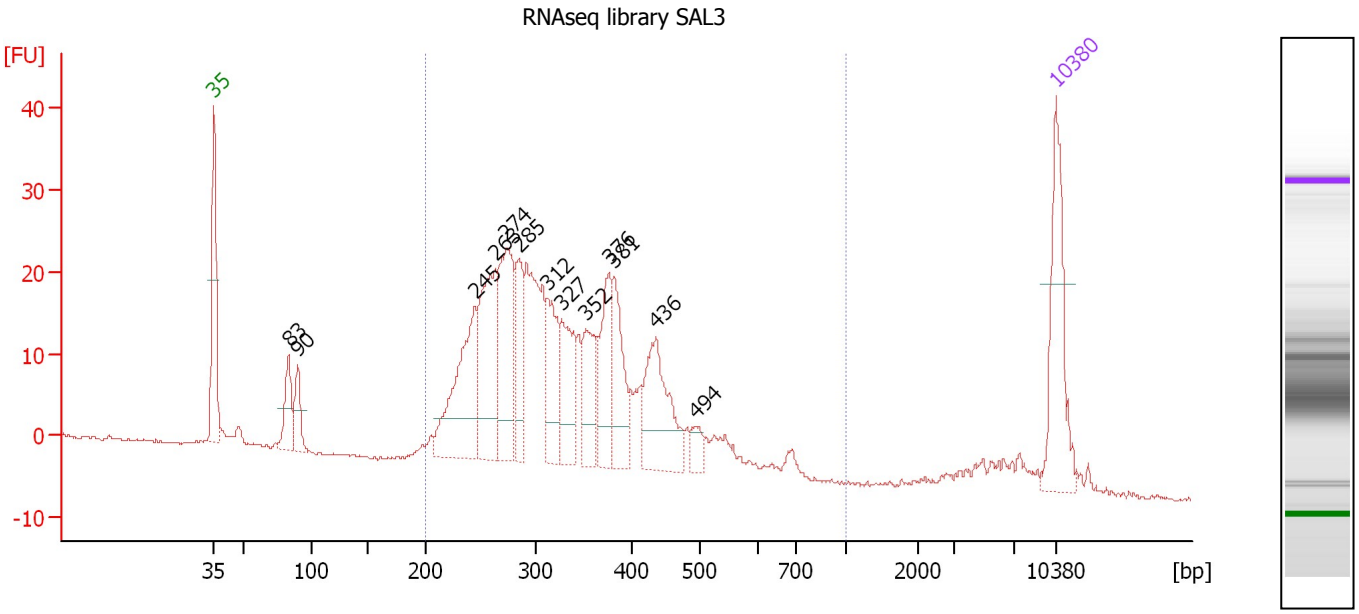


Overall Results for sample 6 : RNAseq library SAL3

Number of peaks found:	13	Corr. Area 1:	522.3
Noise:	0.2		

Peak table for sample 6 : RNAseq library SAL3

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	83	45.34	823.5		49.21
3	90	35.91	604.4		49.96
4	245	140.49	868.3		64.72
5	263	133.27	766.5		66.41
6	274	125.19	693.4		67.34
7	285	64.83	344.5		68.40
8	312	69.88	339.1		70.75
9	327	71.23	330.3		71.90
10	352	56.58	243.3		73.94
11	376	67.93	273.5		75.85
12	381	67.36	267.7		76.25
13	436	96.96	337.3		79.75
14	494	15.61	47.8		83.08
15	10,380	75.00	10.9	Upper Marker	113.00

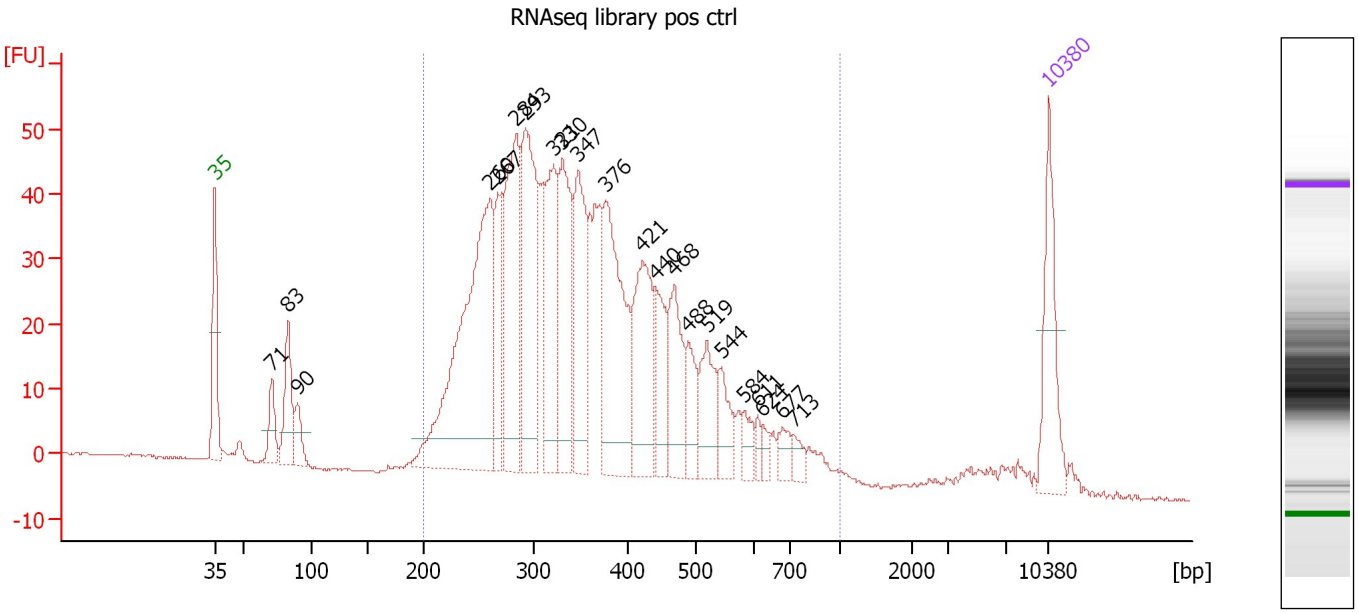
Region table for sample 6 : RNAseq library SAL3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	339	522.3	5,748.1	1,184.38	89	26.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNAseq library pos ctrl

Number of peaks found:	22	Corr. Area 1:	1,227.1
Noise:	0.1		

Peak table for sample 7 : RNAseq library pos ctrl

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	71	44.35	946.3		47.79
3	83	87.99	1,610.2		49.14
4	90	36.46	614.8		49.94
5	260	454.39	2,650.8		66.06
6	267	97.16	550.3		66.78
7	284	233.78	1,247.1		68.30
8	293	235.71	1,219.8		69.11
9	321	154.89	730.1		71.48
10	330	175.19	803.3		72.20
11	347	154.97	677.2		73.50
12	376	211.86	853.8		75.83
13	421	141.84	510.7		78.92
14	440	71.87	247.6		79.99
15	468	89.62	290.0		81.61
16	488	48.55	150.7		82.72
17	519	64.92	189.4		84.34
18	544	39.02	108.6		85.55
19	584	20.32	52.7		87.47
20	611	10.68	26.5		88.59
21	624	11.48	27.9		88.99
22	677	18.72	41.9		90.65
23	713	15.67	33.3		91.55
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...

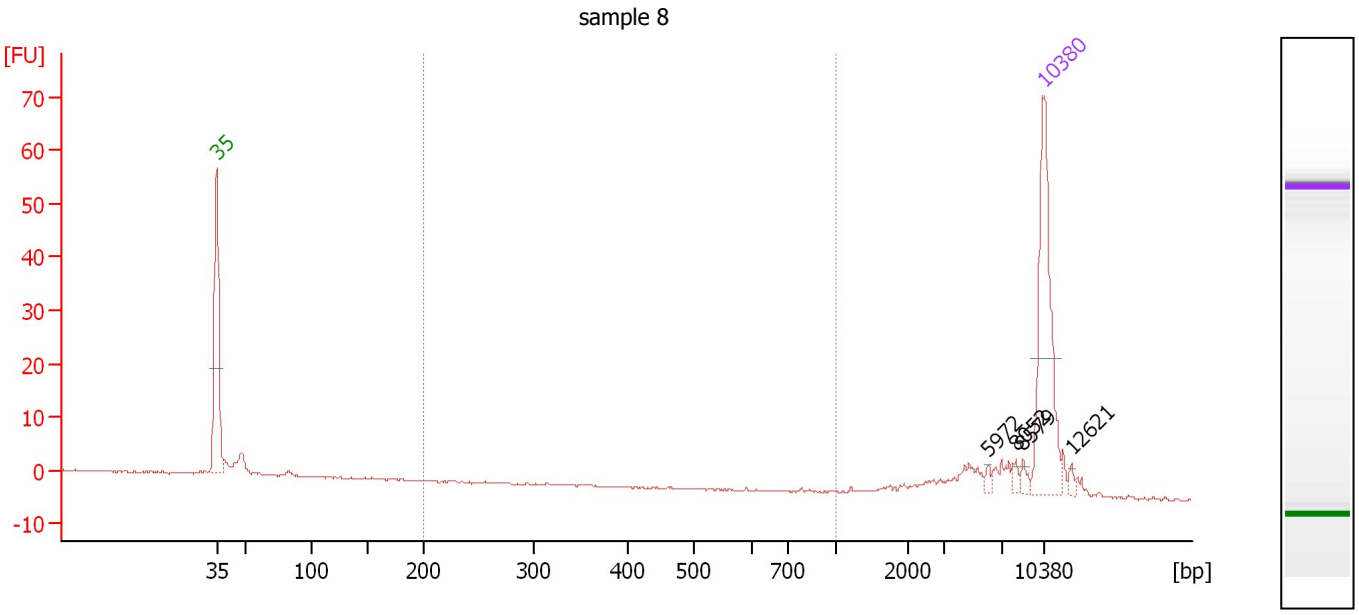
... Region table for sample 7 : RNAseq library pos ctrl

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	372	1,227.1	11,687.2	2,548.30	92	32.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found:	4	Corr. Area 1:	0.3
Noise:	0.2		

Peak table for sample 8 : sample 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	5,972	2.49	0.6		108.26
3	8,052	3.04	0.6		110.61
4	8,579	3.80	0.7		111.15
5	10,380	75.00	10.9	Upper Marker	113.00
6	12,621	0.00	0.0		115.30

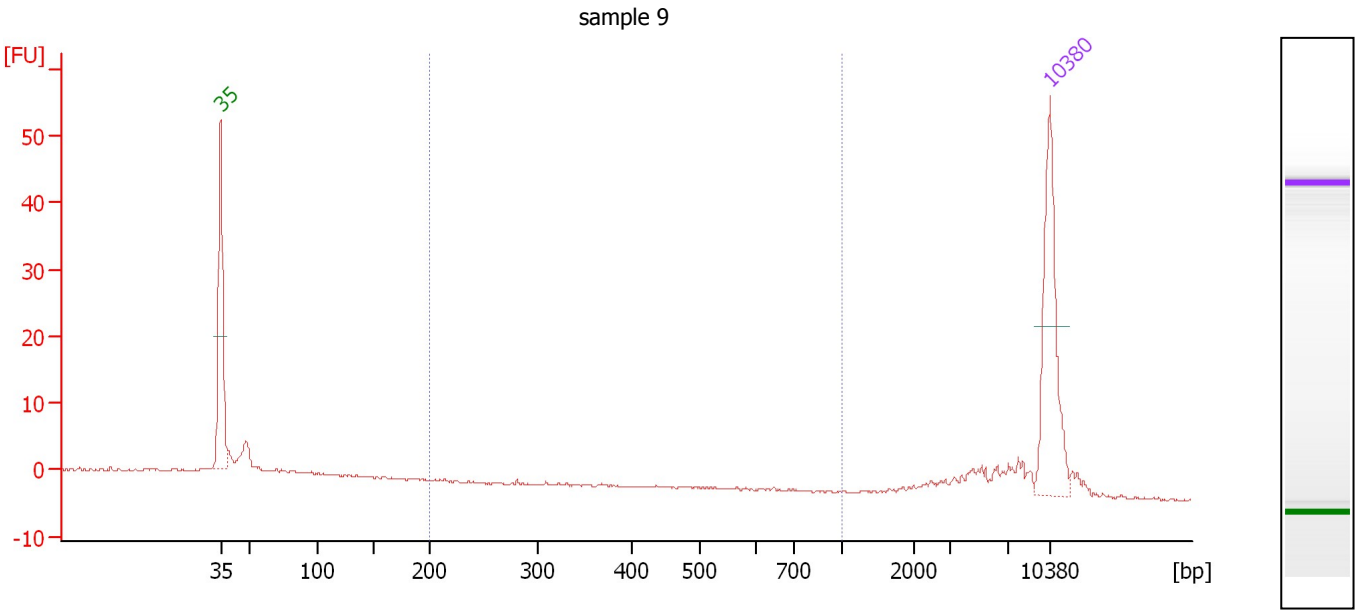
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	743	0.3	0.9	0.37	0	28.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

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

Peak table for sample 9 : sample 9

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	10,380	75.00	10.9	Upper Marker	113.00

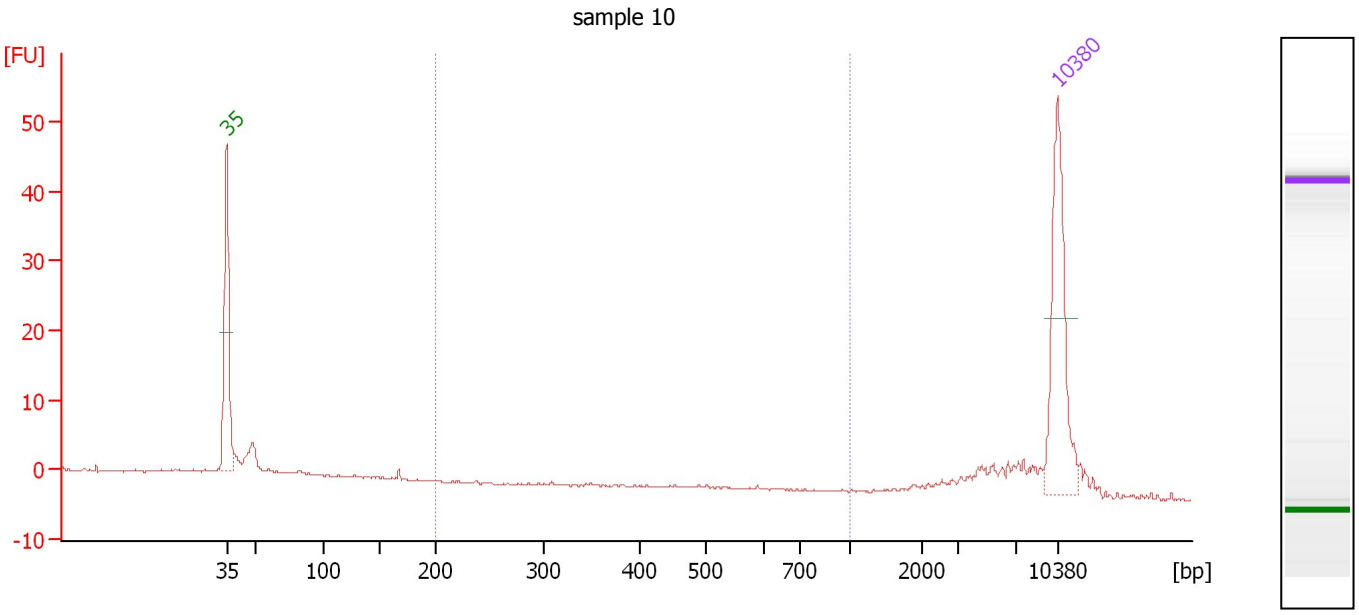
Region table for sample 9 : sample 9

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	541	0.1	0.3	0.09	0	31.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found:	0	Corr. Area 1:	2.3
Noise:	0.1		

Peak table for sample 10 : sample 10

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	10,380	75.00	10.9	Upper Marker	113.00

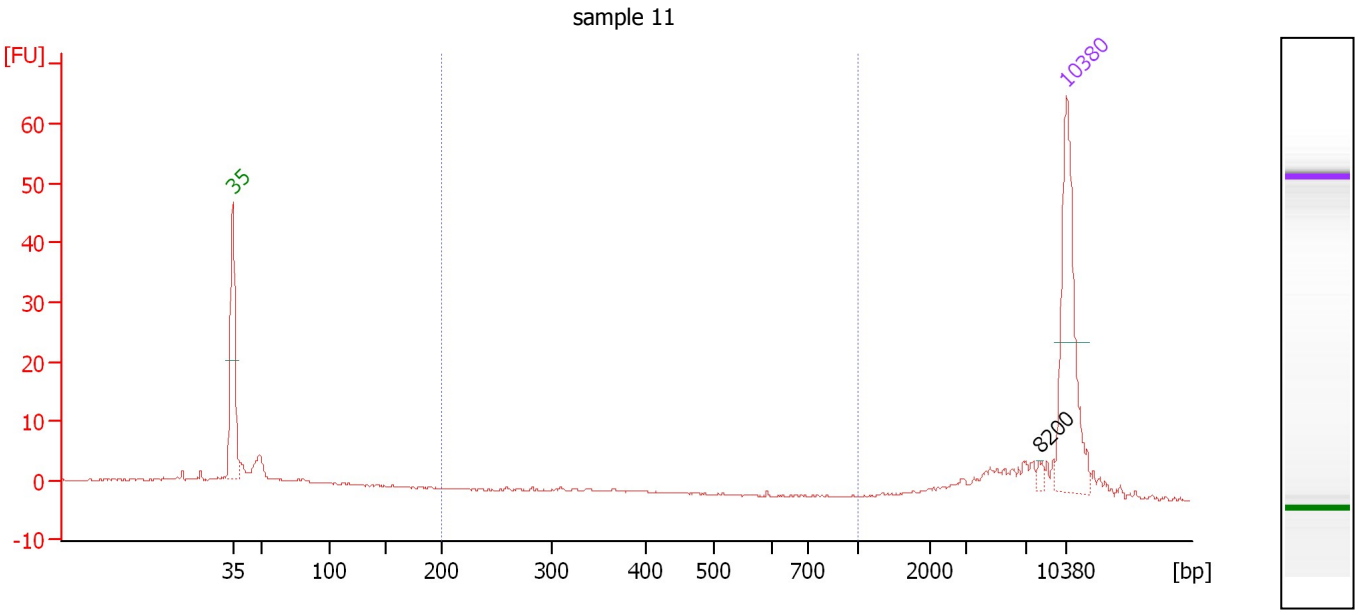
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	558	2.3	11.8	3.83	3	30.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found:	1	Corr. Area 1:	0.4
Noise:	0.1		

Peak table for sample 11 : sample 11

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		8,200	2.91	0.5		110.76
3	▶	10,380	75.00	10.9	Upper Marker	113.00

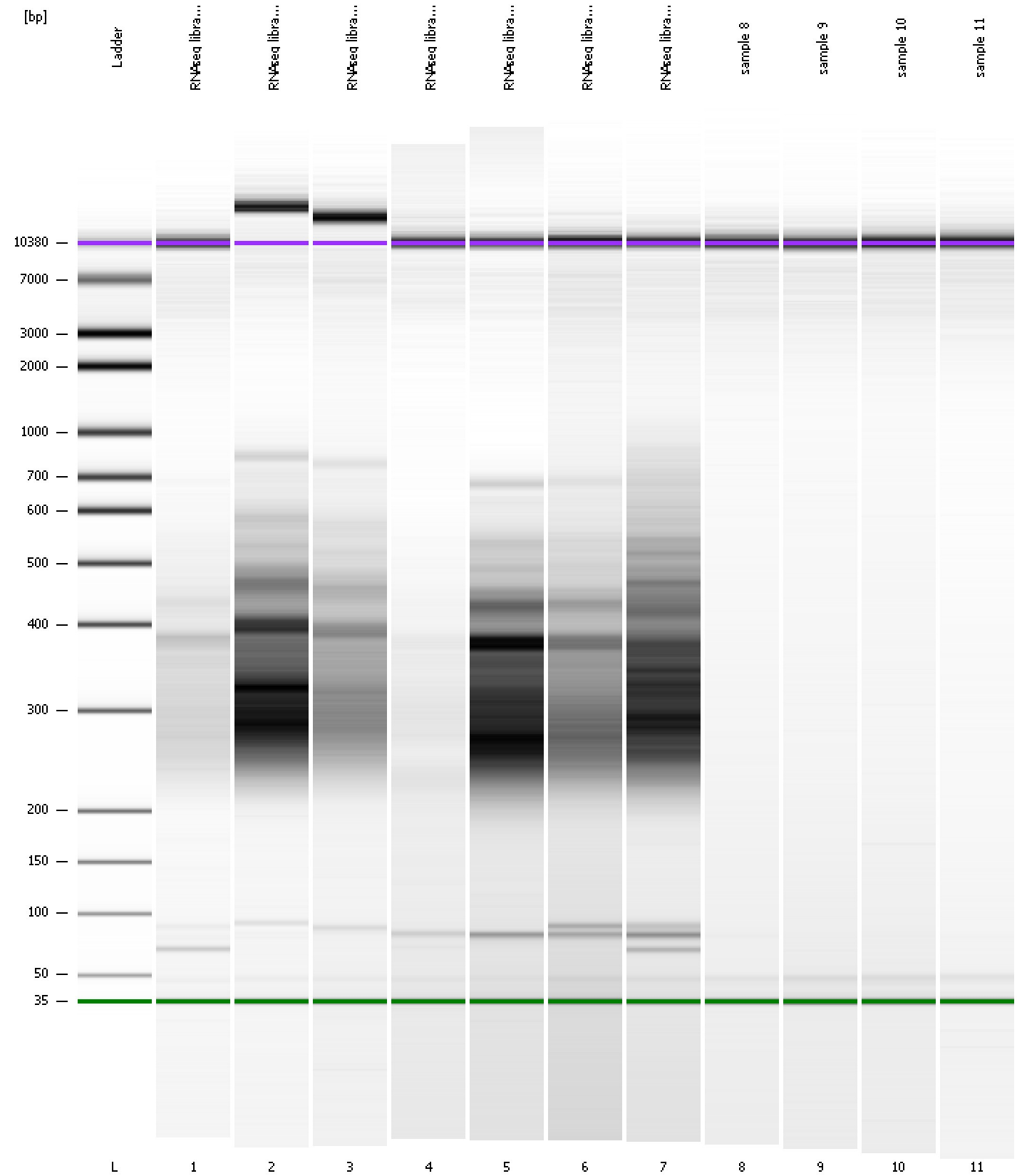
Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	337	0.4	3.2		0.68	1	24.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad

Created: 12/3/2015 9:09:12 AM
Modified: 12/3/2015 9:50:33 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		12/3/2015 9:50:31 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-03\2015-12-03_001.xad)		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/3/2015 9:09:18 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1