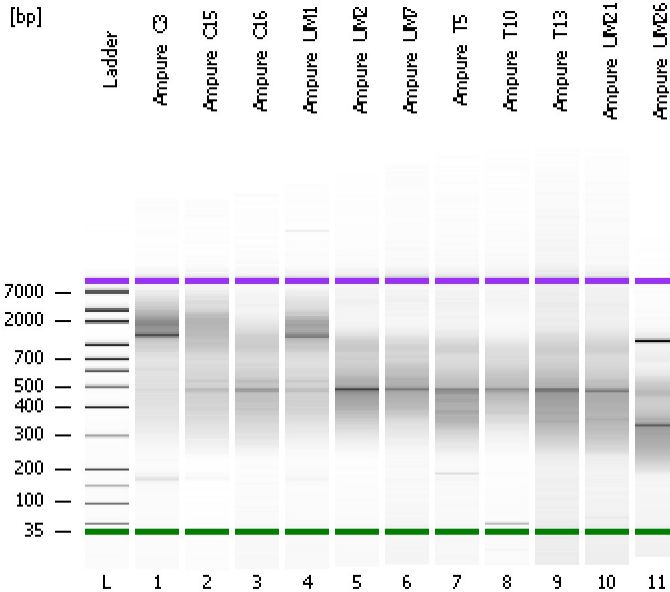


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 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

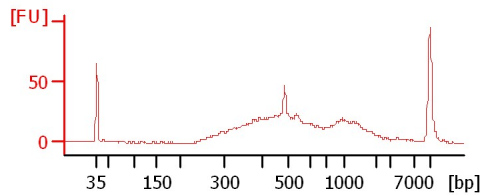
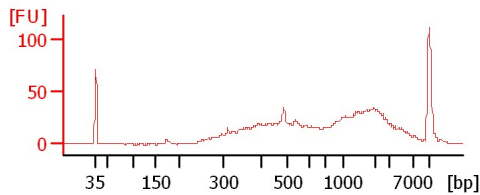
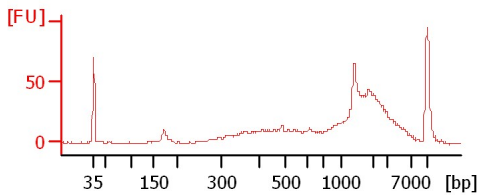
#### Chip Information:

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

Ampure\_C3

Ampure\_C15

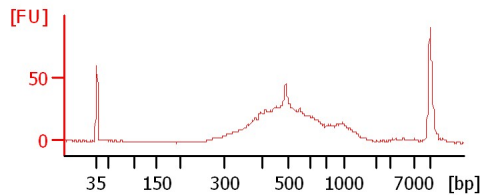
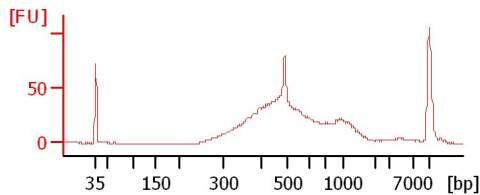
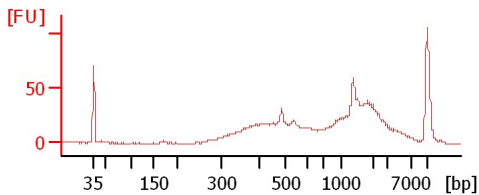
Ampure\_C16



Ampure\_UM1

Ampure\_UM2

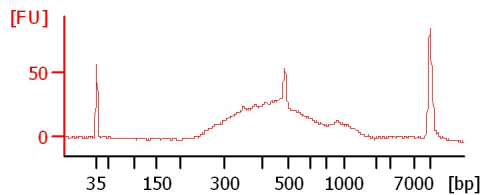
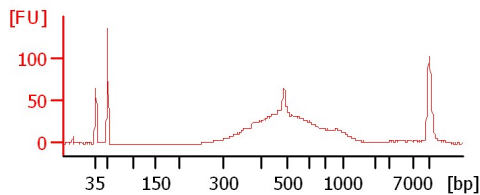
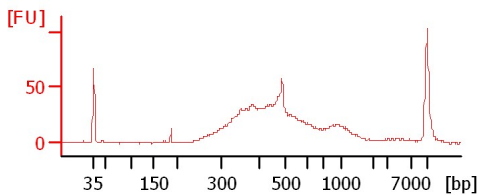
Ampure\_UM7



Ampure\_T5

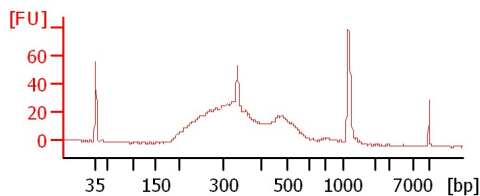
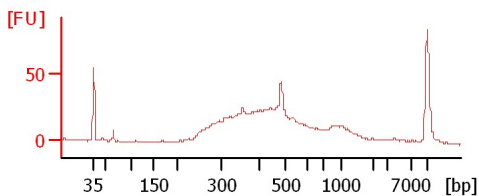
Ampure\_T10

Ampure\_T13



Ampure\_UM21

Ampure\_UM26



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Ampure_C3		<input type="checkbox"/>	✓			
Ampure_C15		<input type="checkbox"/>	✓			
Ampure_C16		<input type="checkbox"/>	✓			
Ampure_UM1		<input type="checkbox"/>	✓			
Ampure_UM2		<input type="checkbox"/>	✓			
Ampure_UM7		<input type="checkbox"/>	✓			
Ampure_T5		<input type="checkbox"/>	✓			
Ampure_T10		<input type="checkbox"/>	✓			
Ampure_T13		<input type="checkbox"/>	✓			
Ampure_UM21		<input type="checkbox"/>	✓			
Ampure_UM26		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 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

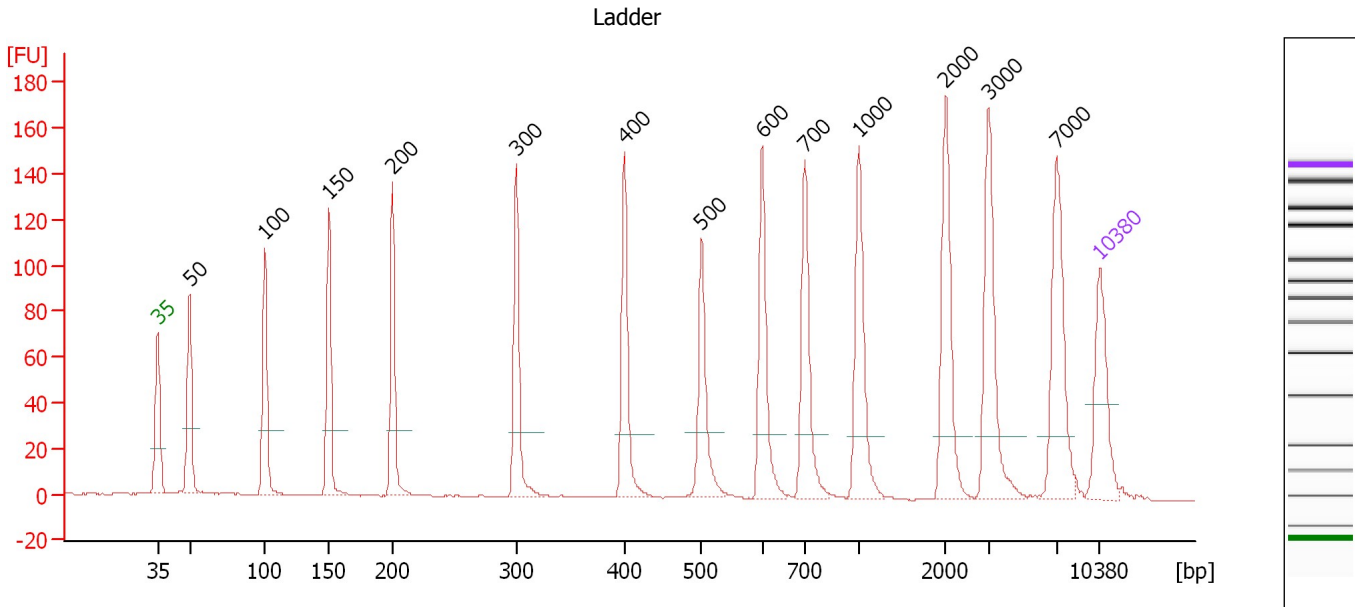
**Ladder**

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:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

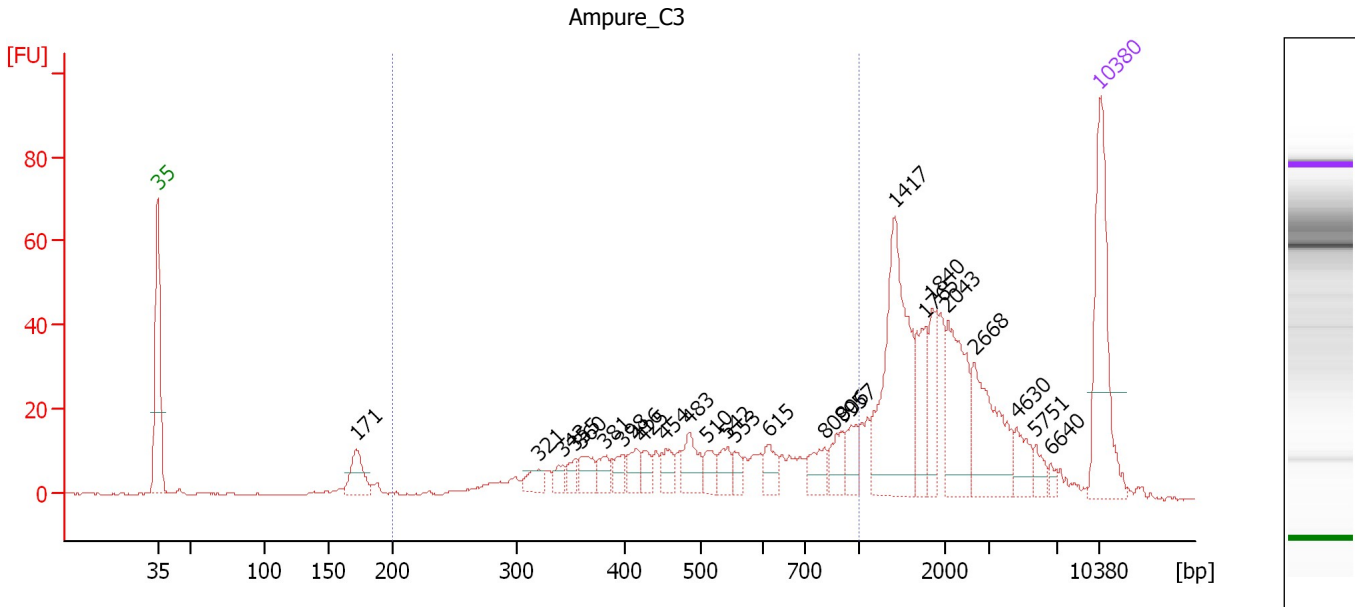
**Peak table for Ladder**

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.99
4	150	150.00	1,515.2	Ladder Peak	55.73
5	200	150.00	1,136.4	Ladder Peak	60.48
6	300	150.00	757.6	Ladder Peak	69.67
7	400	150.00	568.2	Ladder Peak	77.66
8	500	150.00	454.5	Ladder Peak	83.42
9	600	150.00	378.8	Ladder Peak	87.92
10	700	150.00	324.7	Ladder Peak	91.07
11	1,000	150.00	227.3	Ladder Peak	95.09
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Ampure\_C3**

Number of peaks found: 26                      Corr. Area 1: 306.6  
 Noise: 0.3

**Peak table for sample 1 : Ampure\_C3**

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	171	31.74	281.0		57.74
3	321	13.97	65.9		71.36
4	343	9.81	43.3		73.11
5	355	9.34	39.9		74.04
6	360	17.71	74.5		74.47
7	381	13.05	51.8		76.18
8	398	11.34	43.1		77.54
9	416	14.12	51.5		78.56
10	425	11.72	41.8		79.09
11	454	15.21	50.8		80.75
12	483	25.37	79.6		82.45
13	510	12.49	37.1		83.86
14	542	14.36	40.1		85.32
15	553	9.58	26.3		85.81
16	615	15.29	37.7		88.39
17	808	18.45	34.6		92.52
18	906	17.71	29.6		93.83
19	957	17.06	27.0		94.51
20	1,417	126.55	135.3		97.77
21	1,765	30.32	26.0		100.01
22	1,840	25.32	20.9		100.50
23	2,043	58.11	43.1		101.67
24	2,668	57.90	32.9		103.66
25	4,630	16.14	5.3		106.77

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : Ampure C3

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	5,751	8.63	2.3		108.18
27	6,640	3.86	0.9		109.30
28	10,380	75.00	10.9	Upper Marker	113.00

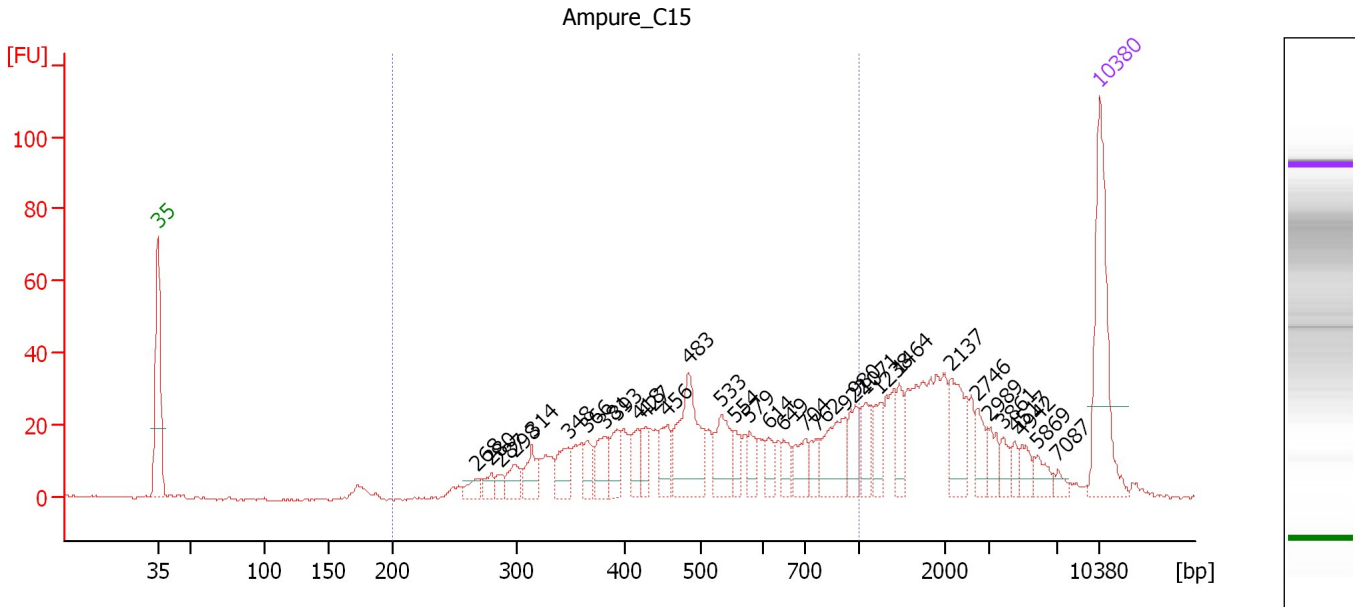
#### Region table for sample 1 : Ampure C3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	549	342.66	306.6	1,111.0	41	35.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Ampure C15**

Number of peaks found: 33                      Corr. Area 1: 557.7  
 Noise: 0.4

**Peak table for sample 2 : Ampure C15**

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	268	11.33	64.0		66.77
3	280	9.47	51.3		67.79
4	287	7.26	38.3		68.52
5	298	18.04	91.7		69.49
6	314	22.32	107.7		70.81
7	348	22.87	99.7		73.48
8	366	16.71	69.2		74.94
9	381	24.25	96.4		76.15
10	393	21.18	81.6		77.13
11	418	18.62	67.6		78.68
12	427	16.76	59.5		79.22
13	456	23.92	79.5		80.87
14	483	75.64	237.5		82.42
15	533	36.27	103.1		84.90
16	554	13.54	37.0		85.88
17	579	15.37	40.2		86.99
18	614	13.14	32.4		88.35
19	649	13.33	31.1		89.47
20	704	21.32	45.9		91.13
21	762	12.57	25.0		91.90
22	922	37.55	61.7		94.04
23	980	21.26	32.9		94.82
24	1,071	17.49	24.7		95.55
25	1,238	17.01	20.8		96.62

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : Ampure C15**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,464	17.67	18.3		98.08
27	2,137	34.85	24.7		101.97
28	2,746	14.62	8.1		103.91
29	2,989	12.29	6.2		104.69
30	3,861	8.91	3.5		105.81
31	4,517	6.86	2.3		106.63
32	4,942	10.52	3.2		107.17
33	5,869	9.98	2.6		108.33
34	7,087	5.11	1.1		109.84
35	▶ 10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 2 : Ampure C15**

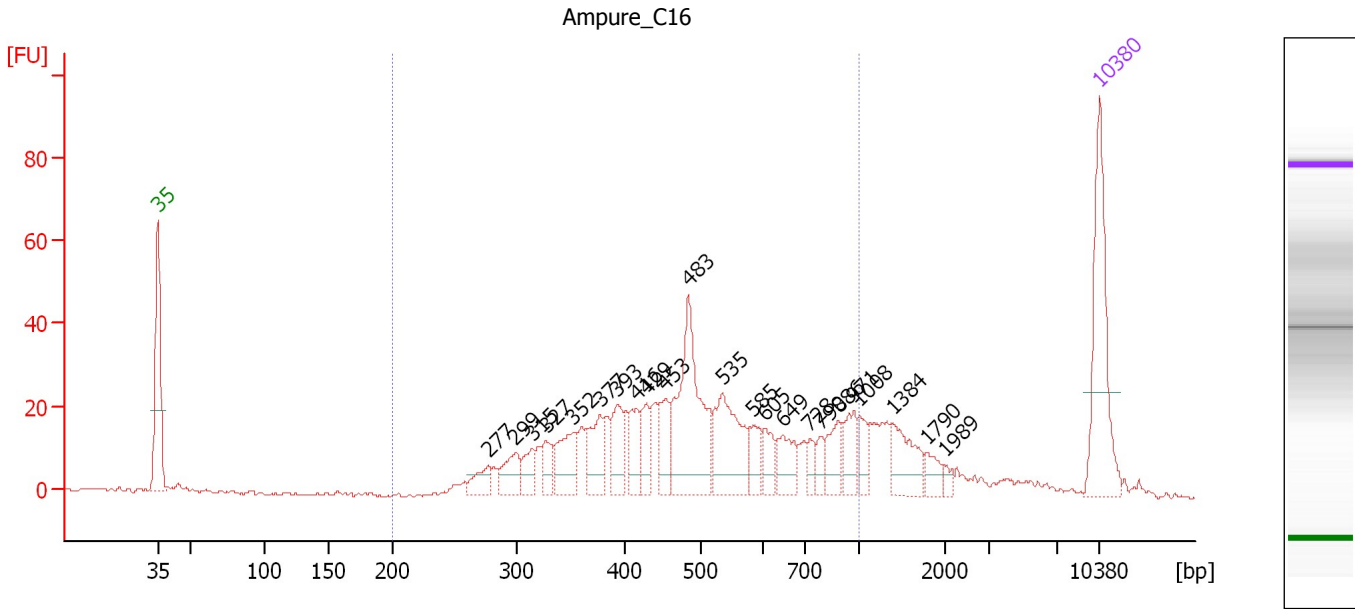
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	529	587.30	557.7	1,966.8	■ 61	35.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Ampure\_C16**

Number of peaks found: 23                      Corr. Area 1: 566.1  
 Noise: 0.4

**Peak table for sample 3 : Ampure\_C16**

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	277	19.74	108.0		67.57
3	299	28.05	142.1		69.59
4	315	18.88	90.8		70.87
5	327	17.97	83.2		71.86
6	352	37.93	163.2		73.83
7	377	36.42	146.2		75.85
8	393	32.15	124.0		77.09
9	416	27.96	101.9		78.57
10	429	22.44	79.2		79.36
11	453	30.10	100.6		80.74
12	483	123.58	388.0		82.42
13	535	74.14	210.1		84.98
14	585	18.55	48.1		87.25
15	605	19.36	48.5		88.09
16	649	26.52	61.9		89.47
17	728	10.45	21.8		91.44
18	790	10.47	20.1		92.28
19	886	23.11	39.5		93.56
20	971	23.16	36.1		94.70
21	1,008	16.23	24.4		95.14
22	1,384	33.25	36.4		97.56
23	1,790	11.53	9.8		100.17
24	1,989	4.10	3.1		101.46
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**

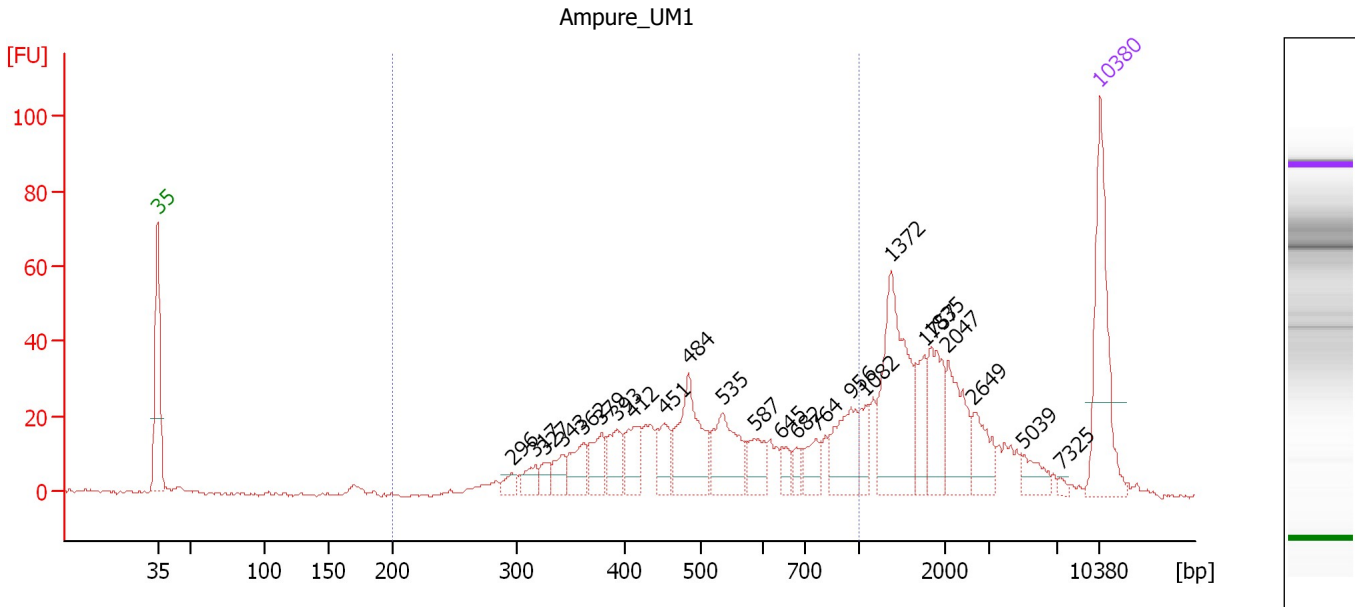
... Region table for sample 3 : Ampure\_C16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	511	671.52	566.1	2,280.0	 83	33.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Ampure\_UM1**

Number of peaks found: 24                      Corr. Area 1: 464.1  
 Noise: 0.5

**Peak table for sample 4 : Ampure\_UM1**

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	296	10.33	52.8		69.33
3	317	15.20	72.6		71.05
4	327	10.94	50.7		71.81
5	343	16.06	70.9		73.12
6	362	27.51	115.1		74.64
7	379	26.97	107.9		75.95
8	393	29.26	112.7		77.12
9	412	30.70	113.0		78.33
10	451	25.55	85.8		80.60
11	484	75.94	238.0		82.47
12	535	55.52	157.2		85.00
13	587	23.20	59.9		87.32
14	645	11.22	26.3		89.35
15	682	9.15	20.3		90.51
16	764	18.66	37.0		91.92
17	956	41.97	66.5		94.50
18	1,082	16.42	23.0		95.61
19	1,372	105.62	116.6		97.48
20	1,757	23.84	20.6		99.96
21	1,835	40.90	33.8		100.47
22	2,047	42.89	31.7		101.68
23	2,649	25.31	14.5		103.60
24	5,039	13.75	4.1		107.29
25	7,325	2.45	0.5		110.07

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...****... Peak table for sample 4 : Ampure UM1**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

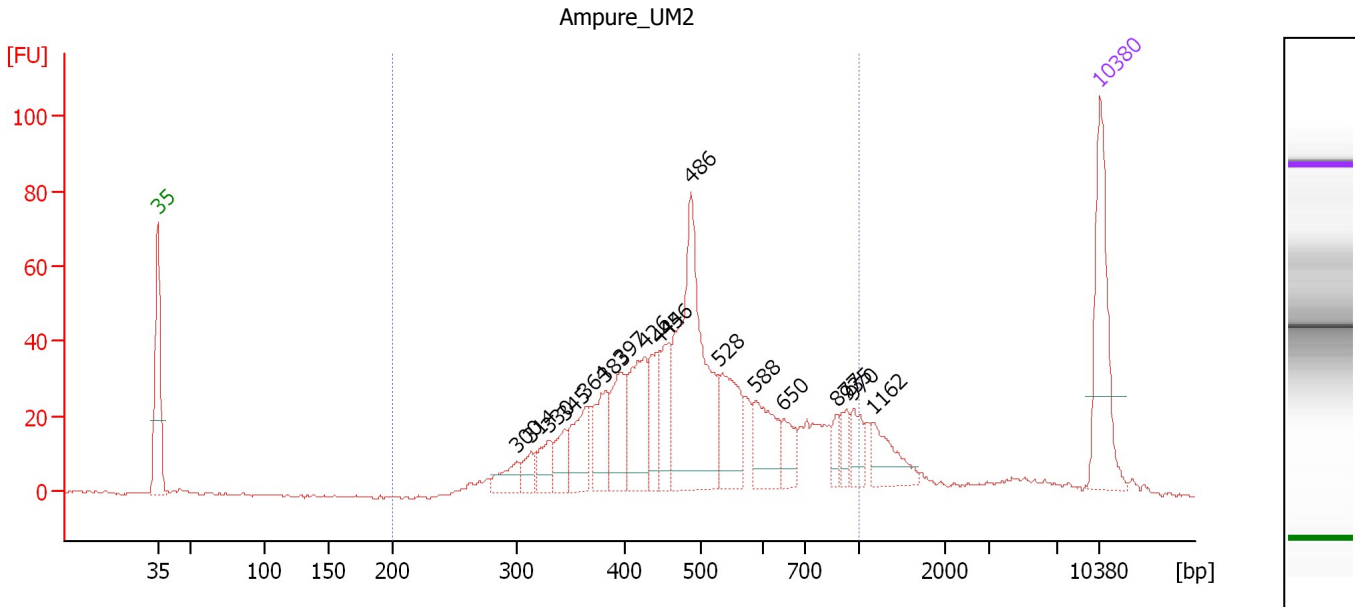
**Region table for sample 4 : Ampure UM1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	540	486.96	464.1	1,567.7	56	33.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Ampure\_UM2**

Number of peaks found: 18                      Corr. Area 1: 851.2  
 Noise: 0.4

**Peak table for sample 5 : Ampure\_UM2**

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	300	24.36	122.9		69.70
3	314	16.17	78.1		70.78
4	330	25.35	116.3		72.08
5	345	26.11	114.7		73.27
6	364	46.61	194.2		74.77
7	383	46.91	185.8		76.27
8	397	52.08	198.9		77.41
9	426	71.78	255.2		79.16
10	444	43.11	147.1		80.20
11	456	42.67	141.9		80.87
12	486	207.61	646.9		82.63
13	528	66.15	189.7		84.70
14	588	48.48	124.9		87.39
15	650	20.83	48.5		89.51
16	877	12.41	21.4		93.44
17	935	14.25	23.1		94.22
18	970	18.98	29.6		94.69
19	1,162	32.08	41.8		96.13
20	10,380	75.00	10.9	Upper Marker	113.00

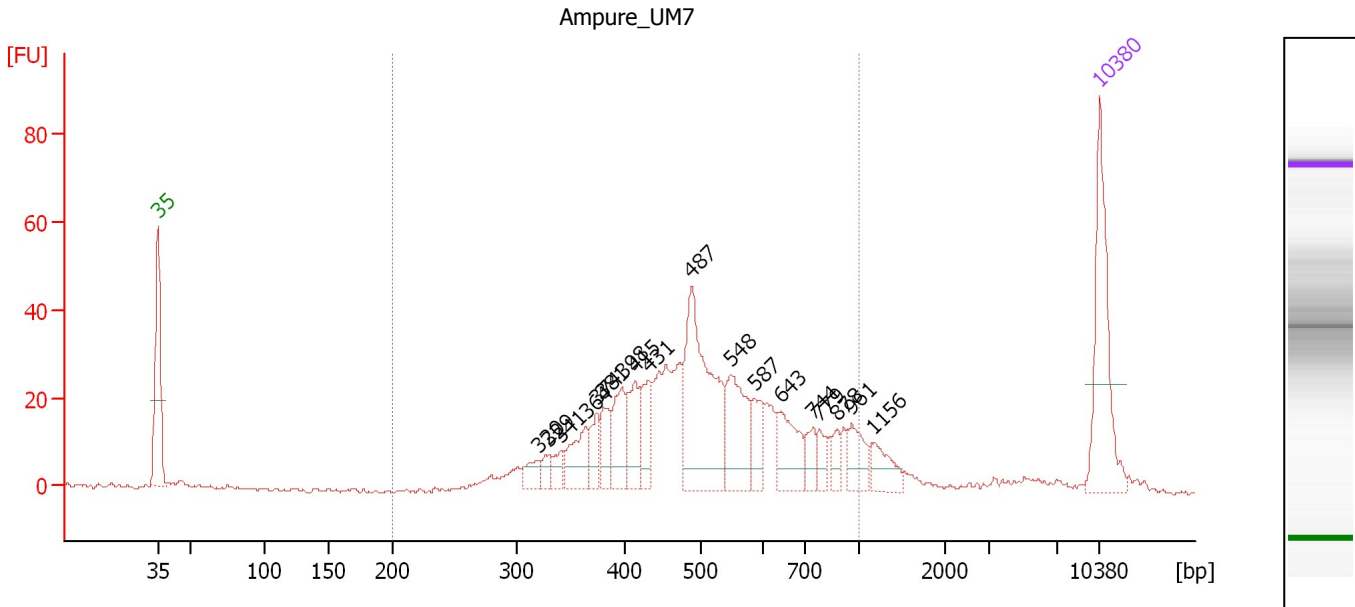
**Region table for sample 5 : Ampure\_UM2**

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	512	912.75	851.2	3,017.3	88	30.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
 Modified: 1/24/2019 3:12:24 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Ampure\_UM7**

Number of peaks found: 18                      Corr. Area 1: 587.7  
 Noise: 0.5

**Peak table for sample 6 : Ampure\_UM7**

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	320	15.24	72.2		71.26
3	329	10.38	47.8		72.00
4	341	13.47	59.8		72.95
5	364	35.27	146.7		74.80
6	374	19.94	80.8		75.60
7	381	24.50	97.5		76.12
8	398	40.88	155.6		77.50
9	415	35.80	130.8		78.50
10	431	30.65	107.7		79.45
11	487	151.79	472.2		82.68
12	548	64.81	179.2		85.58
13	587	24.63	63.6		87.32
14	643	42.01	99.0		89.28
15	744	16.55	33.7		91.66
16	779	11.55	22.5		92.13
17	878	11.79	20.3		93.45
18	961	23.72	37.4		94.56
19	1,156	21.68	28.4		96.09
20	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : Ampure\_UM7**

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	520	737.86	587.7	2,381.2	88	29.3

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-24\2019-01-24\_002.xad

Created: 1/24/2019 2:31:05 PM  
Modified: 1/24/2019 3:12:24 PM

**Gel Image**

