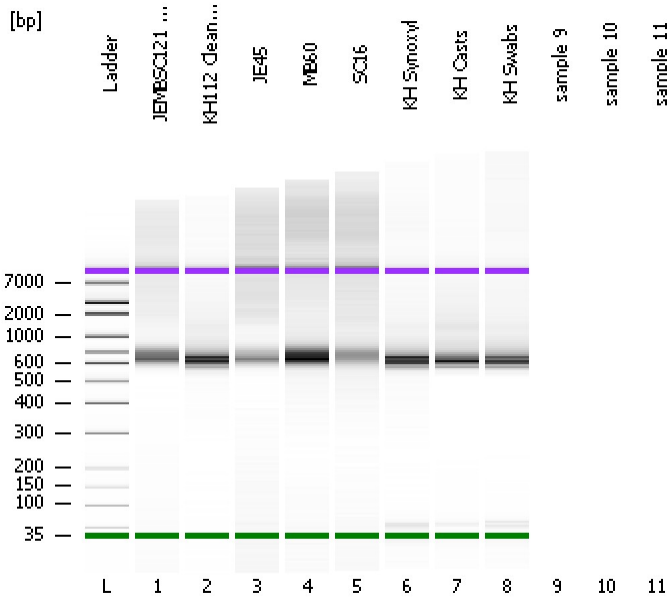


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

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

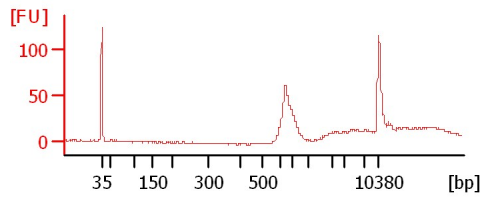
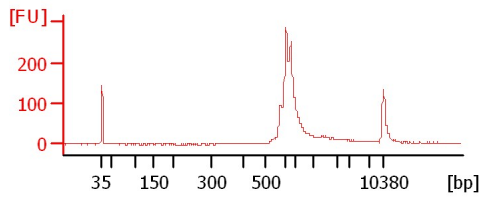
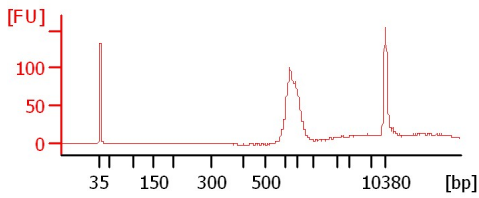
Chip Information:

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

JEMBSC121 Clean Pool

KH112 Clean Pool

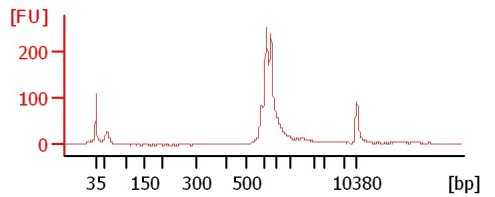
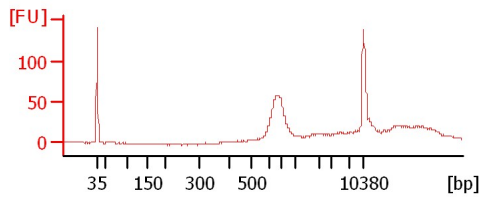
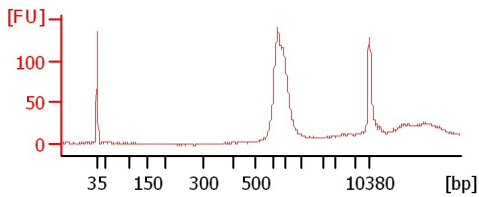
JE45



MB60

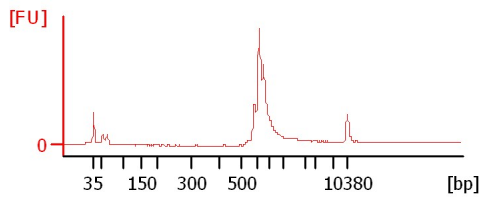
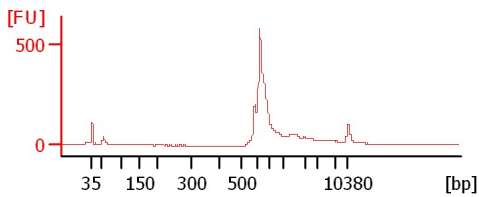
SC16

KH Synoxyl



KH Casts

KH Swabs



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
Modified: 7/31/2018 9:44:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
JEMBSC121 Clean Pool		<input type="checkbox"/>	✓			
KH112 Clean Pool		<input type="checkbox"/>	✓			
JE45		<input type="checkbox"/>	✓			
MB60		<input type="checkbox"/>	✓			
SC16		<input type="checkbox"/>	✓			
KH Synoxyl		<input type="checkbox"/>	✓			
KH Casts		<input type="checkbox"/>	✓			
KH Swabs		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
Modified: 7/31/2018 9:44:15 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

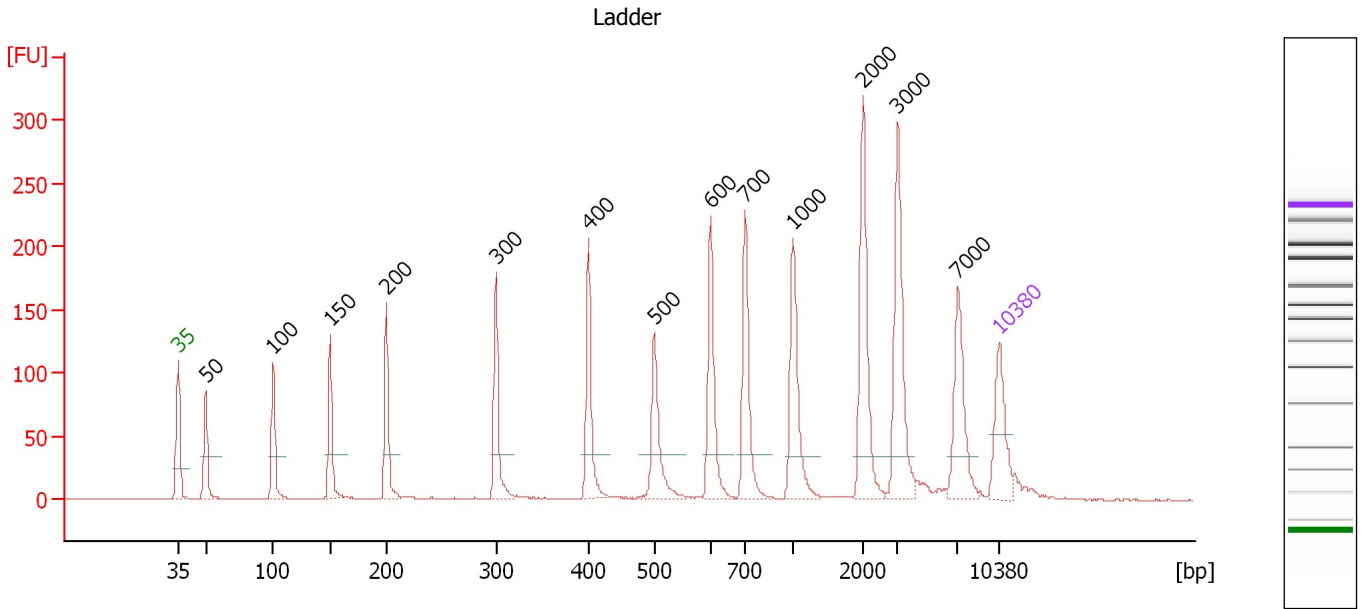
Ladder

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:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

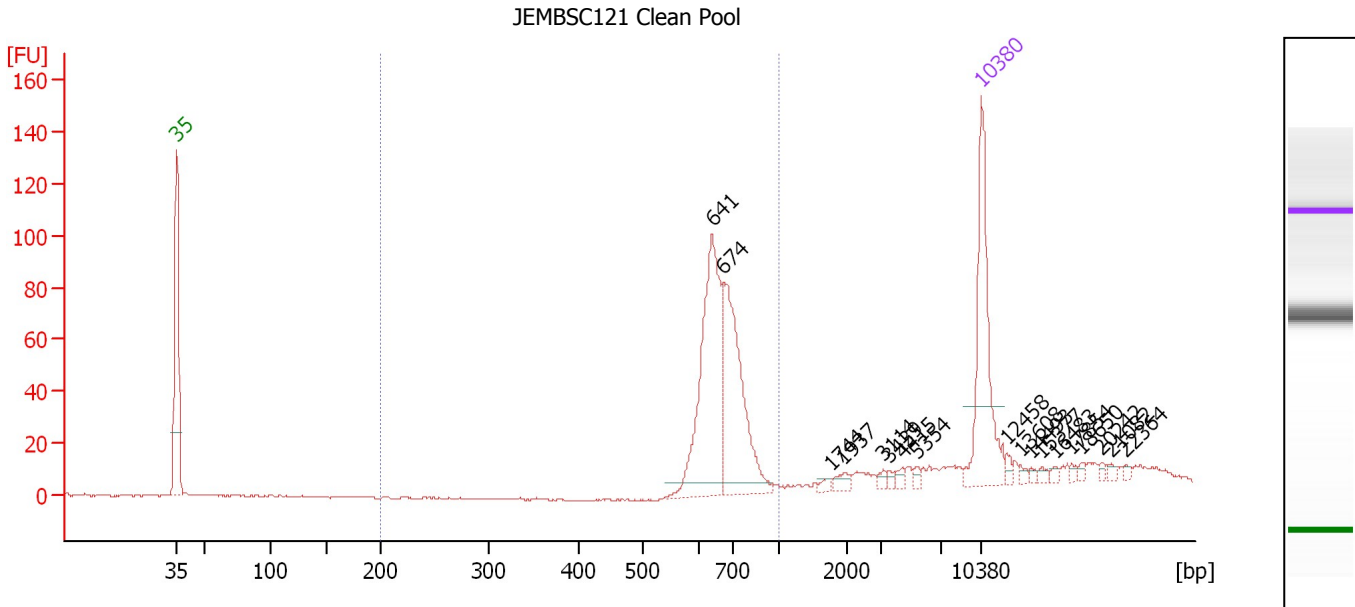
Peak table for Ladder

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	51.13
4	150	150.00	1,515.2	Ladder Peak	55.99
5	200	150.00	1,136.4	Ladder Peak	60.76
6	300	150.00	757.6	Ladder Peak	70.12
7	400	150.00	568.2	Ladder Peak	77.98
8	500	150.00	454.5	Ladder Peak	83.56
9	600	150.00	378.8	Ladder Peak	88.38
10	700	150.00	324.7	Ladder Peak	91.33
11	1,000	150.00	227.3	Ladder Peak	95.38
12	2,000	150.00	113.6	Ladder Peak	101.37
13	3,000	150.00	75.8	Ladder Peak	104.32
14	7,000	150.00	32.5	Ladder Peak	109.46
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : JEMBSC121 Clean Pool

Number of peaks found: 18 Corr. Area 1: 371.0
 Noise: 0.3

Peak table for sample 1 : JEMBSC121 Clean Pool

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	641	148.19	350.3		89.59
3	674	118.93	267.4		90.56
4	1,744	3.06	2.7		99.83
5	1,937	5.19	4.1		100.99
6	3,114	2.83	1.4		104.47
7	3,439	2.14	0.9		104.89
8	4,415	3.49	1.2		106.14
9	5,354	2.54	0.7		107.34
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,458	0.00	0.0		115.18
12	13,608	0.00	0.0		116.38
13	14,493	0.00	0.0		117.31
14	15,377	0.00	0.0		118.24
15	16,483	0.00	0.0		119.40
16	17,854	0.00	0.0		120.83
17	18,650	0.00	0.0		121.67
18	20,242	0.00	0.0		123.34
19	21,082	0.00	0.0		124.22
20	22,364	0.00	0.0		125.56

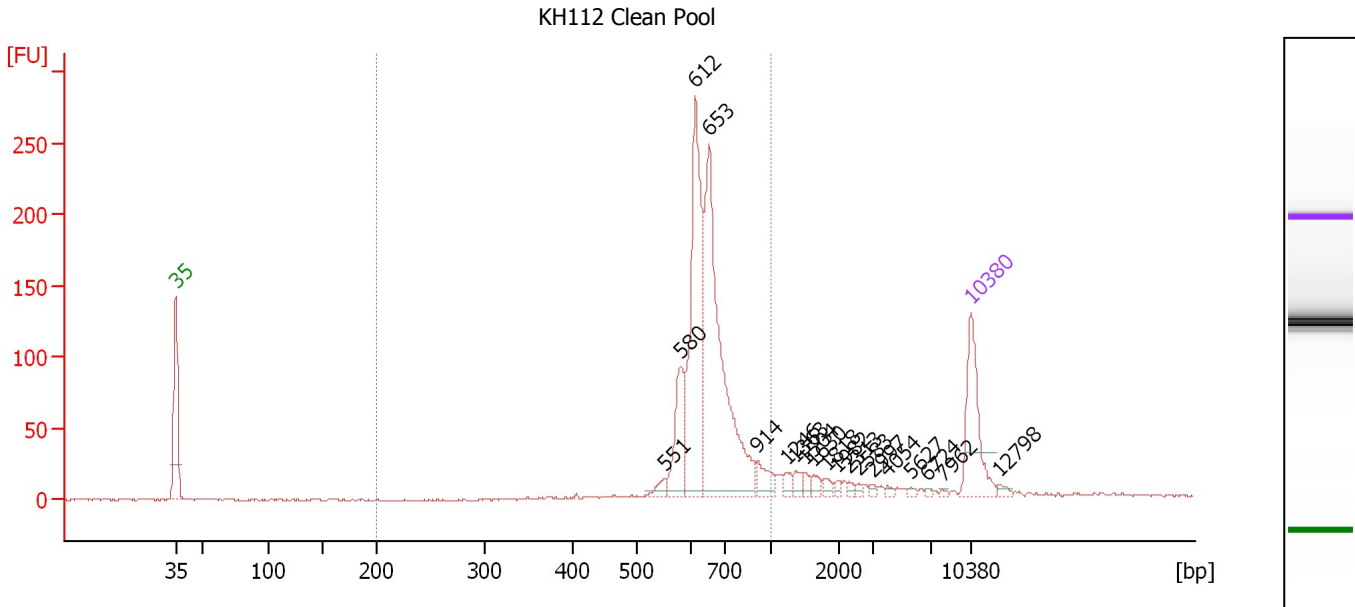
Region table for sample 1 : JEMBSC121 Clean Pool

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	675	242.07	371.0	546.7	76	9.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : KH112 Clean Pool

Number of peaks found: 19 Corr. Area 1: 1,014.0
 Noise: 0.7

Peak table for sample 2 : KH112 Clean Pool

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	551	11.40	31.4		86.00
3	580	77.17	201.6		87.41
4	612	250.70	620.9		88.73
5	653	343.61	797.1		89.95
6	914	23.46	38.9		94.22
7	1,246	8.48	10.3		96.85
8	1,363	9.77	10.9		97.55
9	1,504	6.67	6.7		98.40
10	1,630	8.01	7.5		99.15
11	1,818	5.78	4.8		100.28
12	1,982	3.73	2.9		101.26
13	2,313	3.83	2.5		102.30
14	2,583	2.95	1.7		103.09
15	2,997	3.51	1.8		104.31
16	4,054	2.89	1.1		105.68
17	5,627	2.65	0.7		107.69
18	6,724	2.02	0.5		109.10
19	7,962	1.89	0.4		110.46
20	10,380	75.00	10.9	Upper Marker	113.00
21	12,798	0.00	0.0		115.54

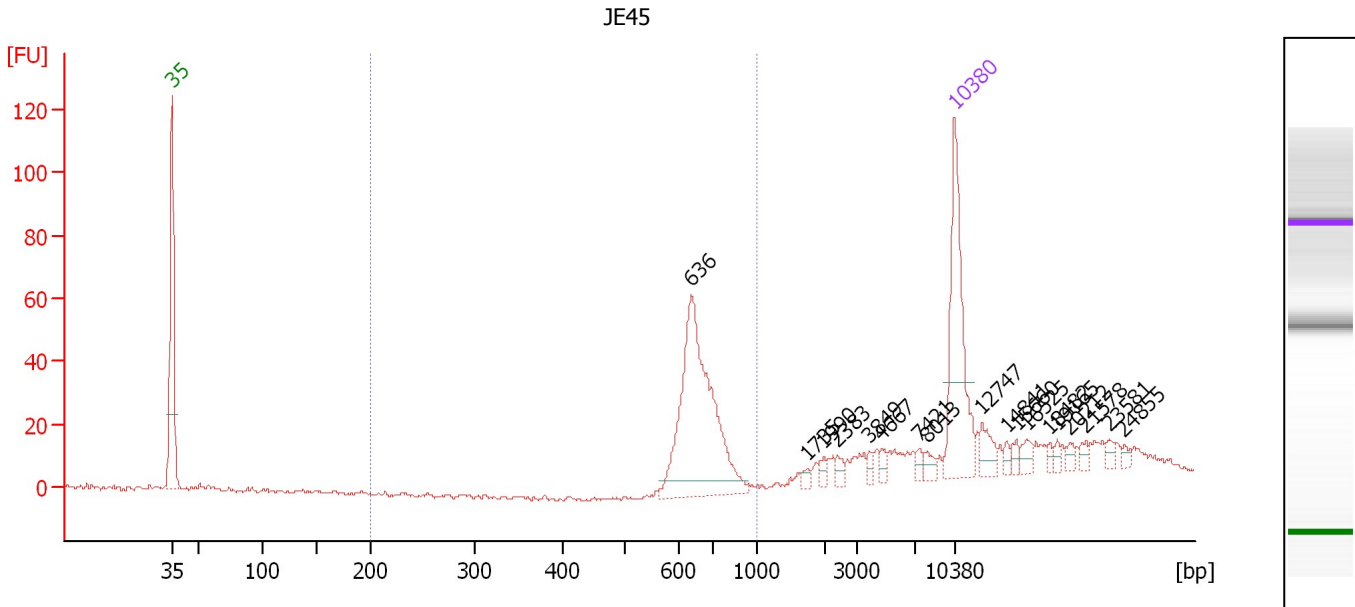
Region table for sample 2 : KH112 Clean Pool

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	658	706.93	1,014.0	1,652.2	84	12.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : JE45

Number of peaks found: 18 Corr. Area 1: 179.1
 Noise: 0.6

Peak table for sample 3 : JE45

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	636	174.43	415.9		89.43
3	1,735	3.24	2.8		99.78
4	1,990	4.14	3.2		101.31
5	2,383	4.65	3.0		102.50
6	3,849	3.72	1.5		105.41
7	4,667	4.18	1.4		106.46
8	7,421	4.04	0.8		109.90
9	8,013	5.04	1.0		110.52
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,747	0.00	0.0		115.48
12	14,841	0.00	0.0		117.68
13	15,660	0.00	0.0		118.54
14	16,525	0.00	0.0		119.44
15	18,482	0.00	0.0		121.49
16	19,165	0.00	0.0		122.21
17	20,212	0.00	0.0		123.31
18	21,578	0.00	0.0		124.74
19	23,581	0.00	0.0		126.84
20	24,855	0.00	0.0		128.17

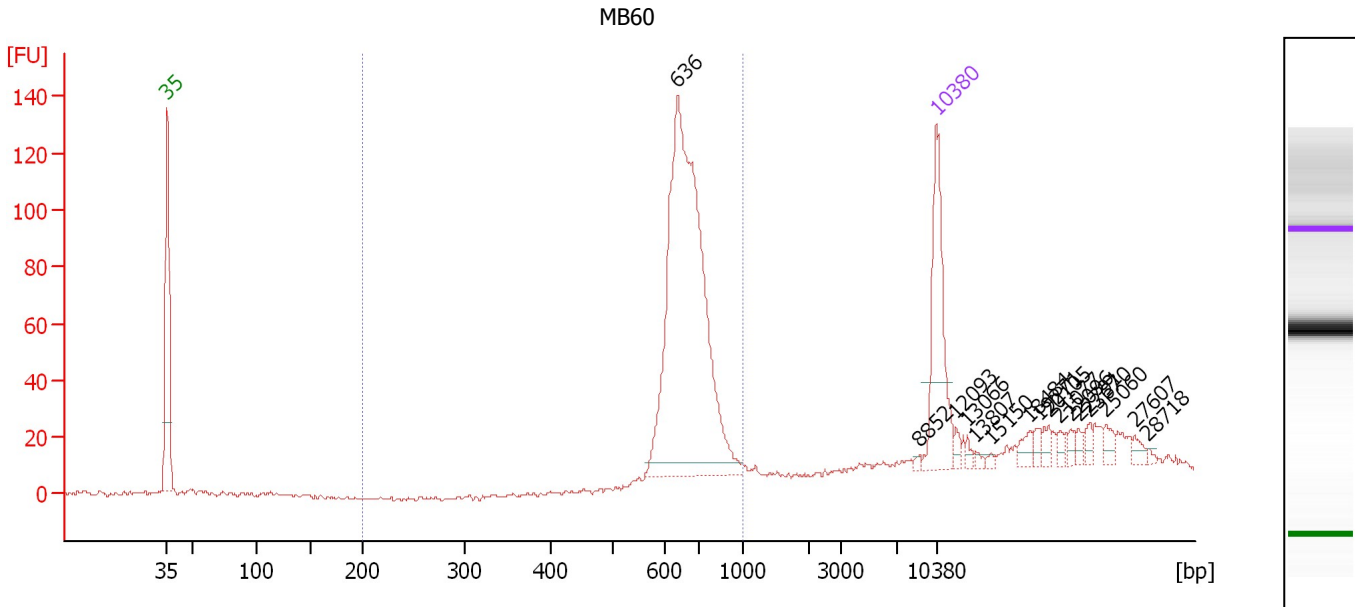
Region table for sample 3 : JE45

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	662	137.12	179.1	315.1	48	7.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MB60

Number of peaks found: 16 Corr. Area 1: 557.3
 Noise: 0.5

Peak table for sample 4 : MB60

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	636	422.13	1,004.9		89.46
3	8,852	1.90	0.3		111.40
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,093	0.00	0.0		114.80
6	13,066	0.00	0.0		115.82
7	13,807	0.00	0.0		116.59
8	15,150	0.00	0.0		118.00
9	18,484	0.00	0.0		121.50
10	19,271	0.00	0.0		122.32
11	20,105	0.00	0.0		123.19
12	21,077	0.00	0.0		124.21
13	22,096	0.00	0.0		125.28
14	22,791	0.00	0.0		126.01
15	23,670	0.00	0.0		126.93
16	25,060	0.00	0.0		128.39
17	27,607	0.00	0.0		131.06
18	28,718	0.00	0.0		132.22

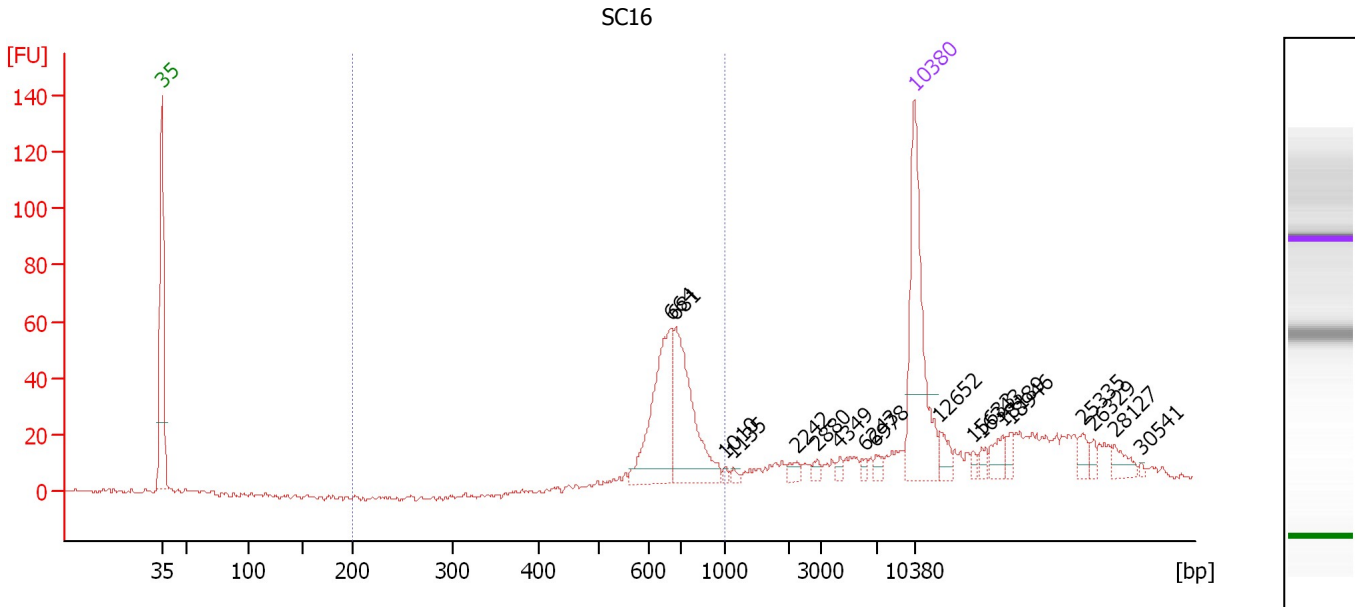
Region table for sample 4 : MB60

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	679	421.06	557.3	949.0	75	10.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SC16

Number of peaks found: 18 Corr. Area 1: 268.9
 Noise: 0.9

Peak table for sample 5 : SC16

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	664	79.12	180.5		90.28
3	681	79.35	176.5		90.77
4	1,010	1.91	2.9		95.44
5	1,135	2.19	2.9		96.18
6	2,242	4.22	2.8		102.09
7	2,880	2.97	1.6		103.97
8	4,349	2.50	0.9		106.05
9	6,243	2.44	0.6		108.49
10	6,978	3.71	0.8		109.43
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,652	0.00	0.0		115.38
13	15,633	0.00	0.0		118.51
14	16,343	0.00	0.0		119.25
15	18,189	0.00	0.0		121.19
16	18,946	0.00	0.0		121.98
17	25,335	0.00	0.0		128.68
18	26,329	0.00	0.0		129.72
19	28,127	0.00	0.0		131.60
20	30,541	0.00	0.0		134.13

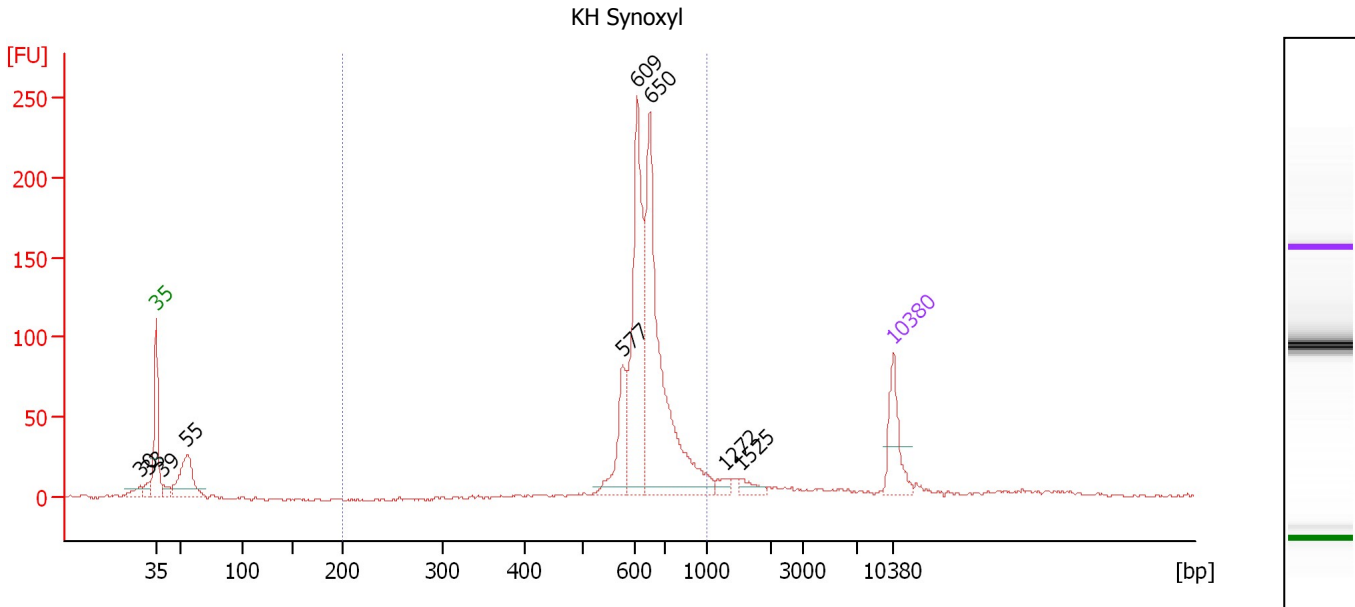
Region table for sample 5 : SC16

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	690	162.33	268.9	361.5	47	12.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : KH Synoxyl

Number of peaks found: 9 Corr. Area 1: 856.8
 Noise: 0.9

Peak table for sample 6 : KH Synoxyl

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.48
2	33	0.00	0.0		42.34
3	35	125.00	5,411.3	Lower Marker	43.00
4	39	23.74	933.5		43.56
5	55	151.96	4,188.3		45.94
6	577	112.25	294.6		87.29
7	609	344.52	856.7		88.65
8	650	516.60	1,203.4		89.87
9	1,272	15.54	18.5		97.01
10	1,525	20.02	19.9		98.52
11	10,380	75.00	10.9	Upper Marker	113.00

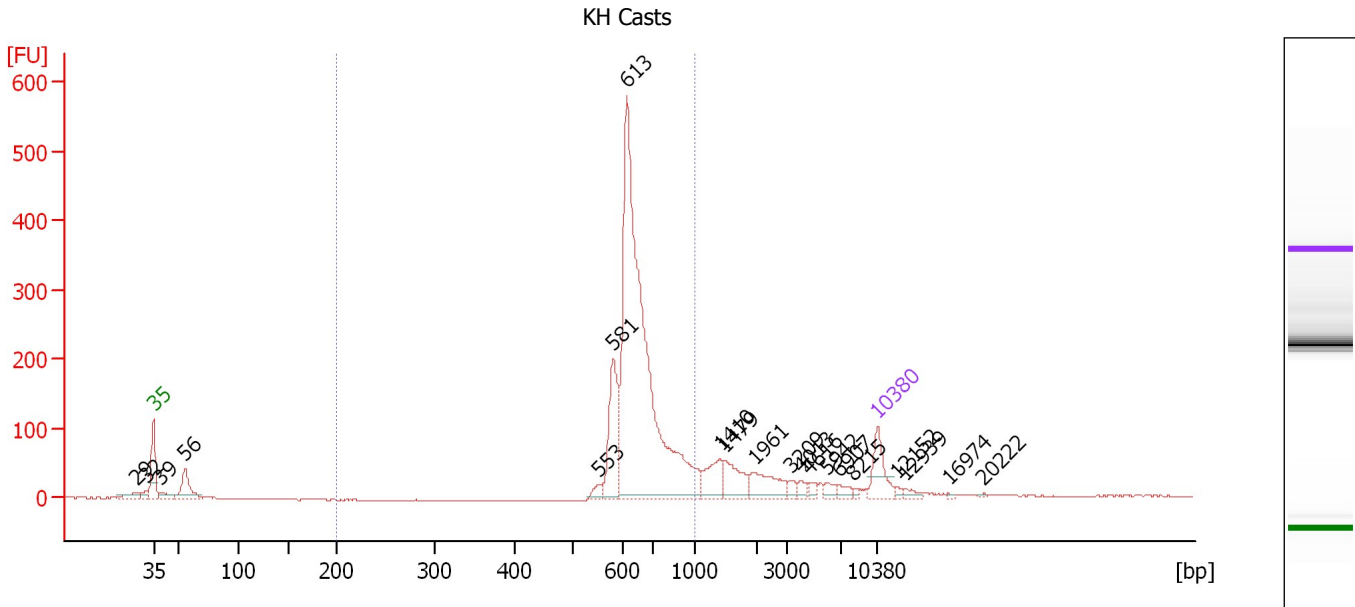
Region table for sample 6 : KH Synoxyl

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	655	952.66	856.8	2,233.3	79	12.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : KH Casts

Number of peaks found: 20 Corr. Area 1: 1,753.4
 Noise: 0.5

Peak table for sample 7 : KH Casts

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	29	0.00	0.0		41.40
2	32	0.00	0.0		42.28
3	35	125.00	5,411.3	Lower Marker	43.00
4	39	34.36	1,326.1		43.67
5	56	125.11	3,390.7		46.04
6	553	23.22	63.6		86.12
7	581	218.50	569.8		87.47
8	613	1,388.72	3,434.0		88.76
9	1,410	82.39	88.5		97.83
10	1,479	81.86	83.9		98.25
11	1,961	86.10	66.5		101.14
12	3,209	15.12	7.1		104.59
13	4,013	15.60	5.9		105.62
14	4,616	14.53	4.8		106.40
15	5,942	17.46	4.5		108.10
16	6,907	18.05	4.0		109.34
17	8,215	6.14	1.1		110.73
18	10,380	75.00	10.9	Upper Marker	113.00
19	12,152	0.00	0.0		114.86
20	12,939	0.00	0.0		115.68
21	16,974	0.00	0.0		119.91
22	20,222	0.00	0.0		123.32

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...

... Region table for sample 7 :

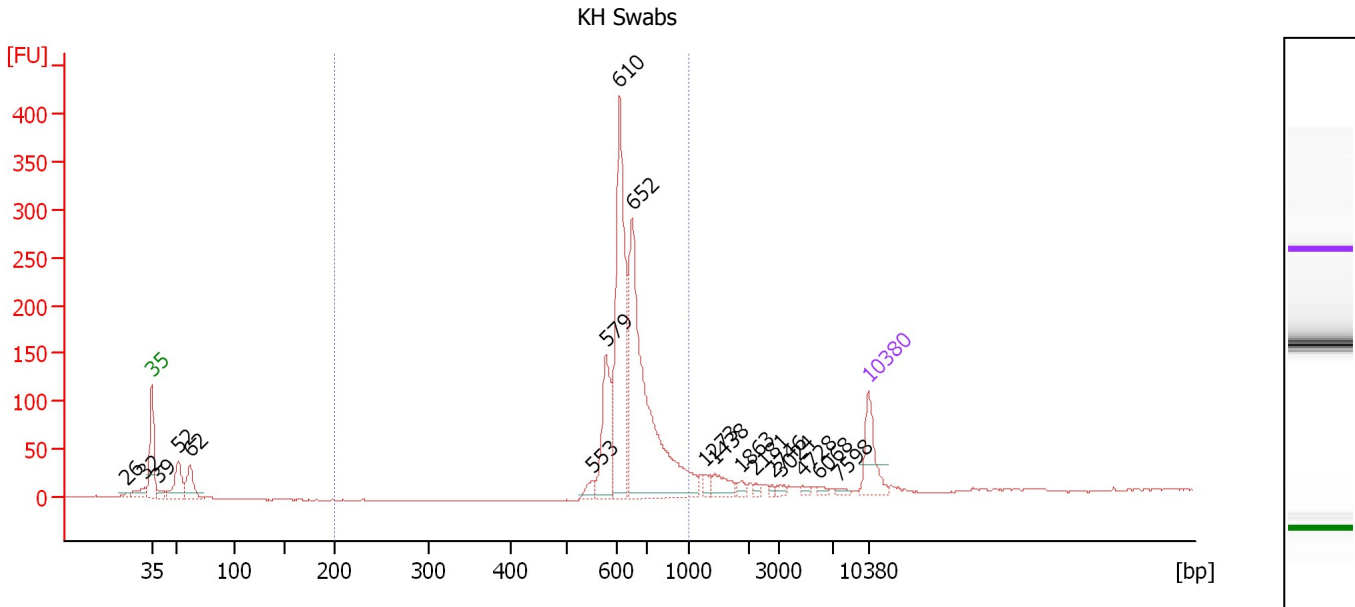
KH Casts

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	663	1,559.87	1,753.4	3,619.1	 72	13.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
 Modified: 7/31/2018 9:44:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KH Swabs

Number of peaks found: 18 Corr. Area 1: 1,252.2
 Noise: 0.3

Peak table for sample 8 : KH Swabs

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.55
2	32	0.00	0.0		42.27
3	35	125.00	5,411.3	Lower Marker	43.00
4	39	18.59	728.9		43.57
5	52	111.66	3,275.7		45.55
6	62	90.72	2,216.0		46.75
7	553	19.92	54.6		86.13
8	579	164.57	430.6		87.38
9	610	438.03	1,087.9		88.68
10	652	622.97	1,446.8		89.93
11	1,273	16.97	20.2		97.01
12	1,438	37.02	39.0		98.00
13	1,863	12.22	9.9		100.55
14	2,181	6.69	4.6		101.91
15	2,746	5.29	2.9		103.57
16	3,024	8.21	4.1		104.35
17	4,728	6.64	2.1		106.54
18	6,068	6.83	1.7		108.26
19	7,598	5.68	1.1		110.08
20	10,380	75.00	10.9	Upper Marker	113.00

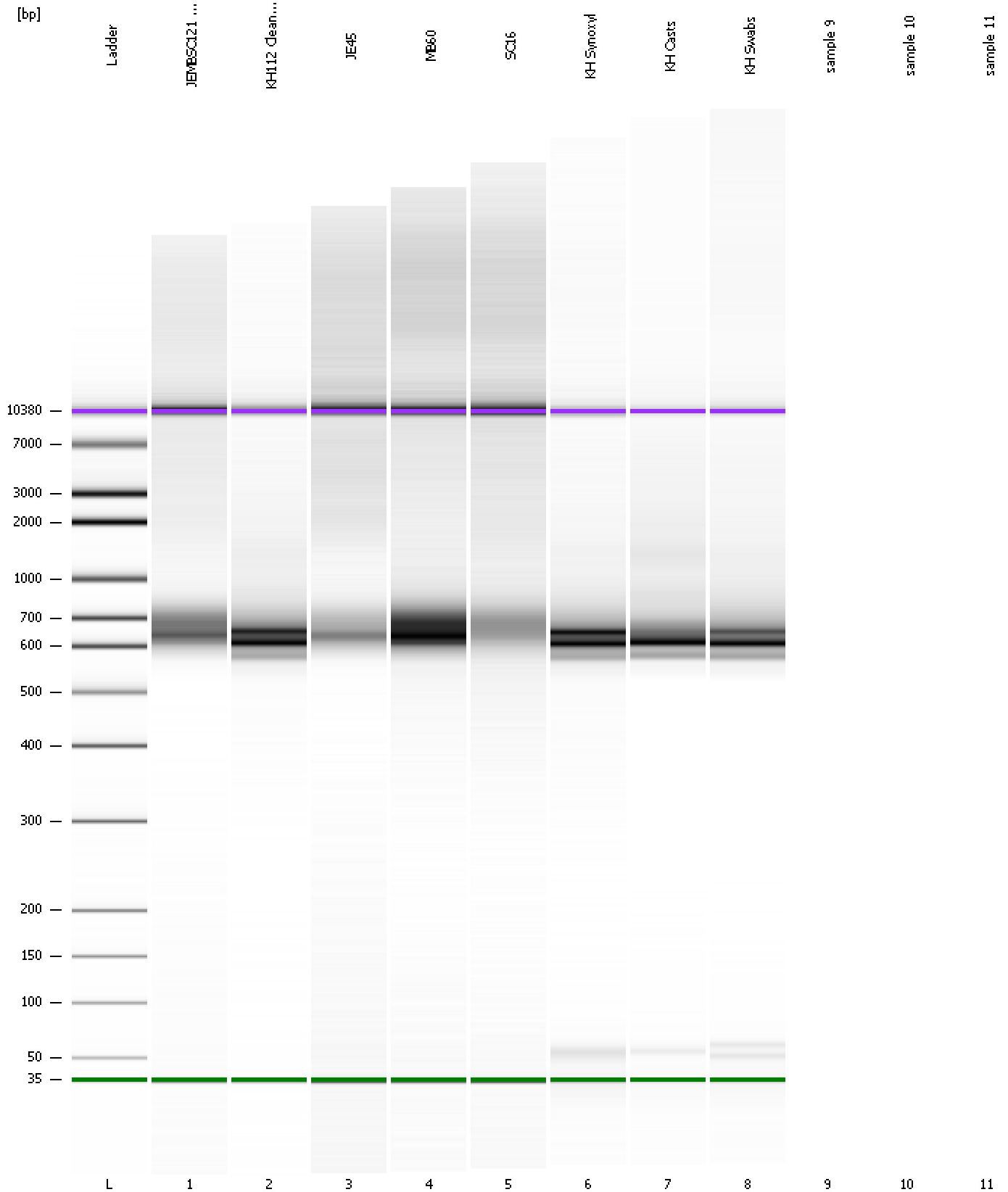
Region table for sample 8 : KH Swabs

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	659	1,161.65	1,252.2	2,708.1	79	12.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
Modified: 7/31/2018 9:44:15 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-07-31\2018-07-31_001.xad

Created: 7/31/2018 9:11:26 AM
Modified: 7/31/2018 9:44:15 AM

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.