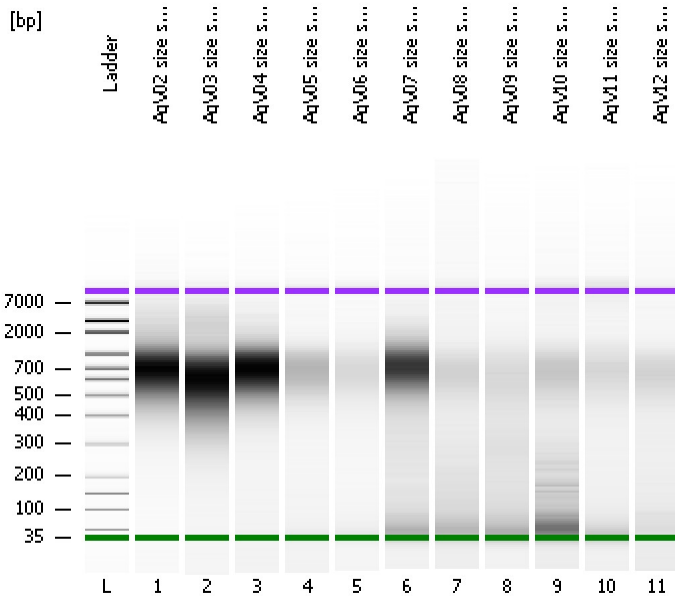


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
Modified: 5/11/2018 10:51:39 AM

Electrophoresis File Run Summary



Instrument Information:

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

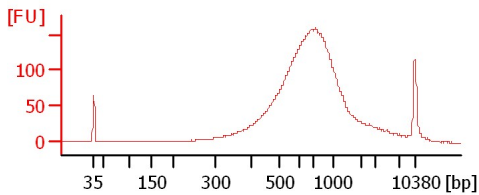
Assay Information:

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

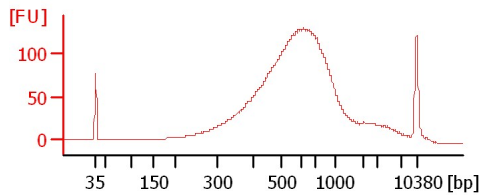
Chip Information:

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

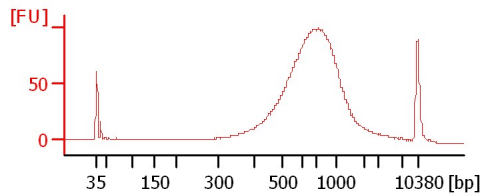
AgV02 size sel soni



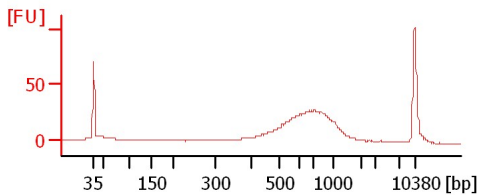
AgV03 size sel soni



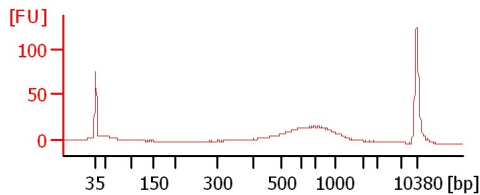
AgV04 size sel soni



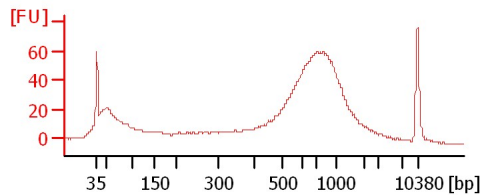
AgV05 size sel soni



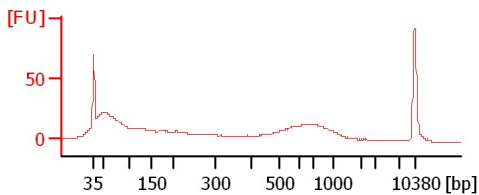
AgV06 size sel soni



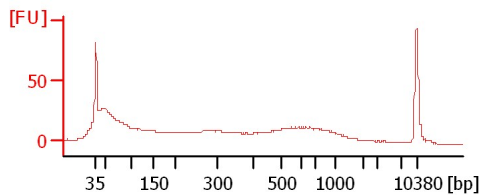
AgV07 size sel soni



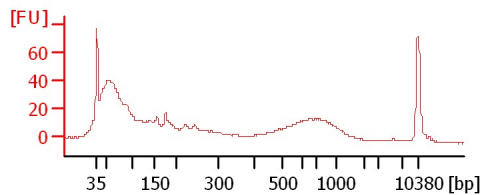
AgV08 size sel soni



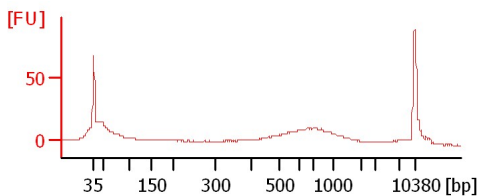
AgV09 size sel soni



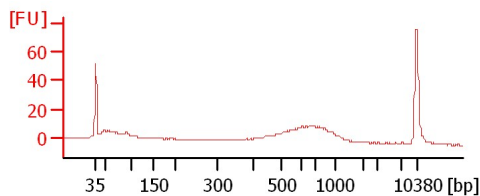
AgV10 size sel soni



AgV11 size sel soni



AgV12 size sel soni



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
Modified: 5/11/2018 10:51:39 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
AgV02 size sel soni		<input type="checkbox"/>	✓			
AgV03 size sel soni		<input type="checkbox"/>	✓			
AgV04 size sel soni		<input type="checkbox"/>	✓			
AgV05 size sel soni		<input type="checkbox"/>	✓			
AgV06 size sel soni		<input type="checkbox"/>	✓			
AgV07 size sel soni		<input type="checkbox"/>	✓			
AgV08 size sel soni		<input type="checkbox"/>	✓			
AgV09 size sel soni		<input type="checkbox"/>	✓			
AgV10 size sel soni		<input type="checkbox"/>	✓			
AgV11 size sel soni		<input type="checkbox"/>	✓			
AgV12 size sel soni		<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\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
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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

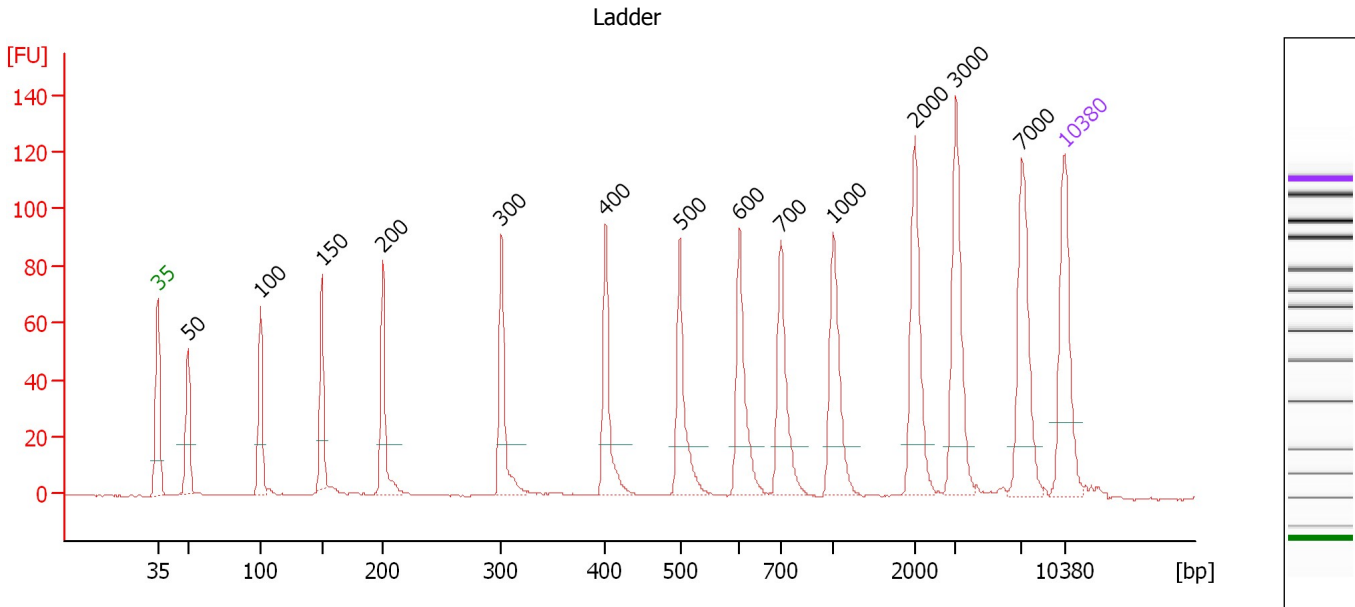
Ladder

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\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

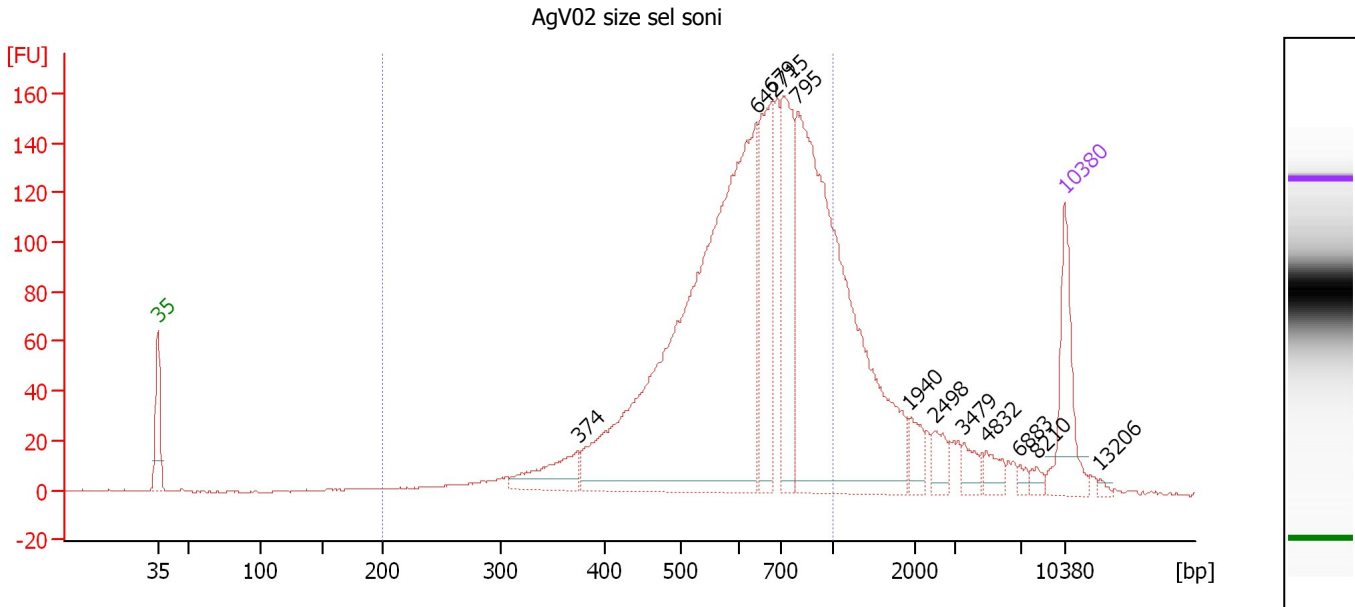
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.67
5	200	150.00	1,136.4	Ladder Peak	60.40
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.56
8	500	150.00	454.5	Ladder Peak	83.32
9	600	150.00	378.8	Ladder Peak	87.91
10	700	150.00	324.7	Ladder Peak	91.10
11	1,000	150.00	227.3	Ladder Peak	95.16
12	2,000	150.00	113.6	Ladder Peak	101.45
13	3,000	150.00	75.8	Ladder Peak	104.64
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AgV02 size sel soni

Number of peaks found: 12 Corr. Area 1: 2,244.2
 Noise: 0.3

Peak table for sample 1 : AgV02 size sel soni

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	374	66.25	268.7		75.45
3	642	921.05	2,174.7		89.24
4	679	176.59	394.3		90.42
5	715	170.92	362.2		91.30
6	795	674.49	1,285.9		92.38
7	1,940	24.85	19.4		101.07
8	2,498	22.69	13.8		103.04
9	3,479	17.89	7.8		105.24
10	4,832	17.97	5.6		106.96
11	6,883	6.24	1.4		109.56
12	8,210	7.31	1.3		110.89
13	10,380	75.00	10.9	Upper Marker	113.00
14	13,206	0.00	0.0		115.75

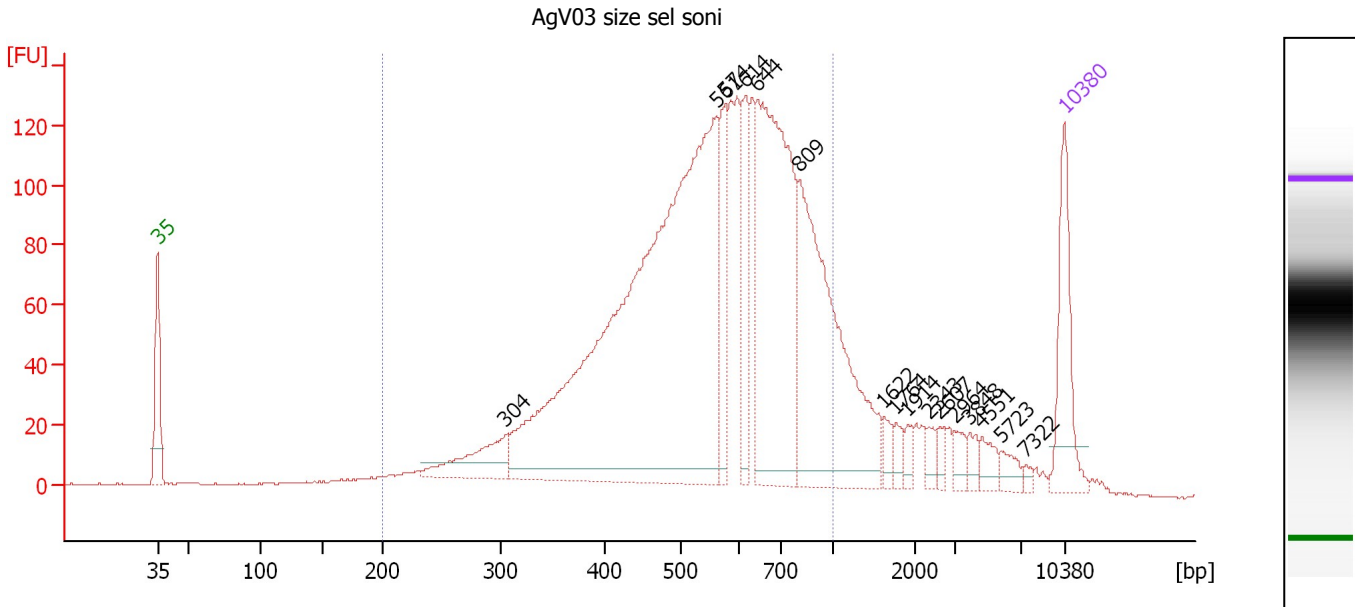
Region table for sample 1 : AgV02 size sel soni

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	637	1,950.09	2,244.2	5,187.6	79	26.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AgV03 size sel soni

Number of peaks found: 16 Corr. Area 1: 2,569.2
 Noise: 0.2

Peak table for sample 2 : AgV03 size sel soni

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	304	77.27	385.0		69.87
3	561	1,001.18	2,702.8		86.13
4	574	81.15	214.1		86.73
5	614	80.67	199.0		88.36
6	644	379.53	893.4		89.30
7	809	332.78	623.3		92.58
8	1,622	12.33	11.5		99.07
9	1,764	12.53	10.8		99.96
10	1,914	9.97	7.9		100.90
11	2,343	11.63	7.5		102.54
12	2,607	8.96	5.2		103.38
13	2,964	12.47	6.4		104.52
14	3,848	11.35	4.5		105.71
15	4,551	16.25	5.4		106.60
16	5,723	13.55	3.6		108.09
17	7,322	4.60	1.0		110.03
18	10,380	75.00	10.9	Upper Marker	113.00

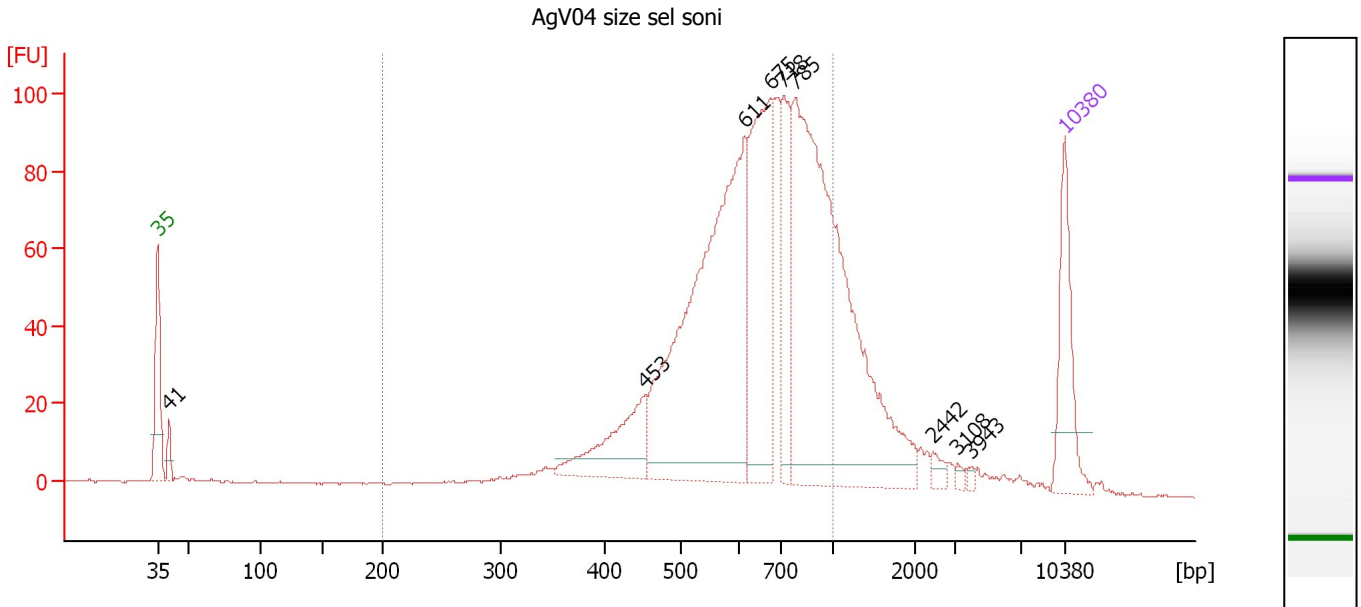
Region table for sample 2 : AgV03 size sel soni

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	566	2,325.34	2,569.2	7,150.0	85	29.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : AgV04 size sel soni

Number of peaks found: 9 Corr. Area 1: 1,350.6
 Noise: 0.3

Peak table for sample 3 : AgV04 size sel soni

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	20.35	754.6		43.91
3	453	107.53	359.8		80.60
4	611	538.60	1,335.0		88.27
5	675	238.60	535.9		90.29
6	718	104.00	219.4		91.35
7	785	598.85	1,155.2		92.26
8	2,442	8.10	5.0		102.86
9	3,108	3.77	1.8		104.77
10	3,943	3.38	1.3		105.83
11	10,380	75.00	10.9	Upper Marker	113.00

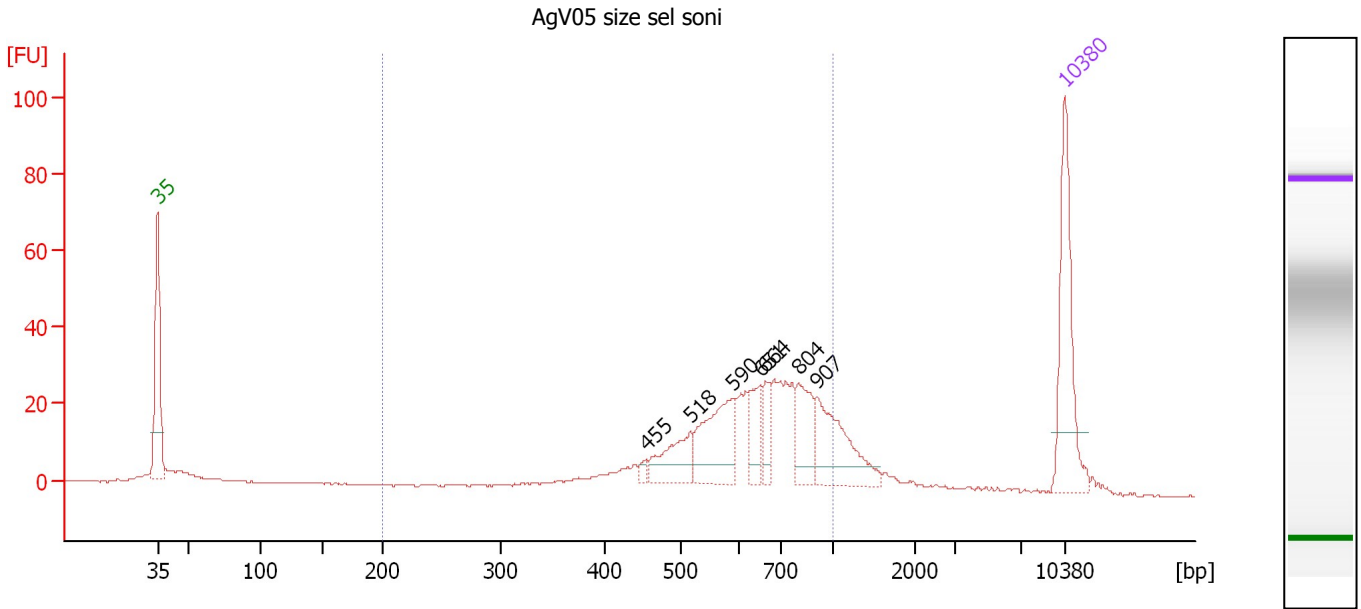
Region table for sample 3 : AgV04 size sel soni

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	649	1,587.62	1,350.6	4,072.0	81	24.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AgV05 size sel soni

Number of peaks found: 7 Corr. Area 1: 382.6
 Noise: 0.2

Peak table for sample 4 : AgV05 size sel soni

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	455	5.13	17.1		80.73
3	518	44.22	129.4		84.13
4	590	69.88	179.3		87.47
5	651	27.42	63.8		89.53
6	664	20.89	47.7		89.94
7	804	40.02	75.4		92.51
8	907	67.53	112.8		93.90
9	10,380	75.00	10.9	Upper Marker	113.00

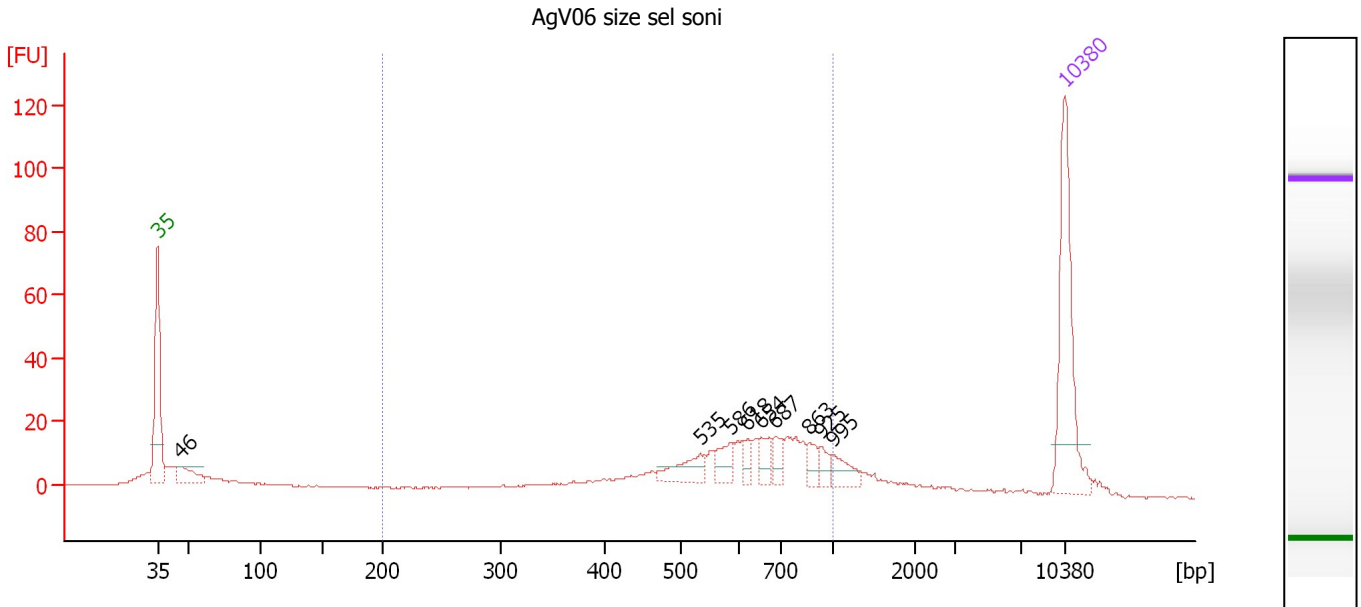
Region table for sample 4 : AgV05 size sel soni

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	645	408.39	382.6	1,049.0	77	24.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AgV06 size sel soni

Number of peaks found: 9 Corr. Area 1: 257.0
 Noise: 0.2

Peak table for sample 5 : AgV06 size sel soni

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	46	23.83	781.4		44.73
3	535	21.56	61.1		84.91
4	586	16.25	42.0		87.27
5	618	8.65	21.2		88.48
6	654	12.66	29.3		89.63
7	687	10.84	23.9		90.68
8	863	8.54	15.0		93.31
9	925	8.14	13.3		94.15
10	995	12.89	19.6		95.09
11	10,380	75.00	10.9	Upper Marker	113.00

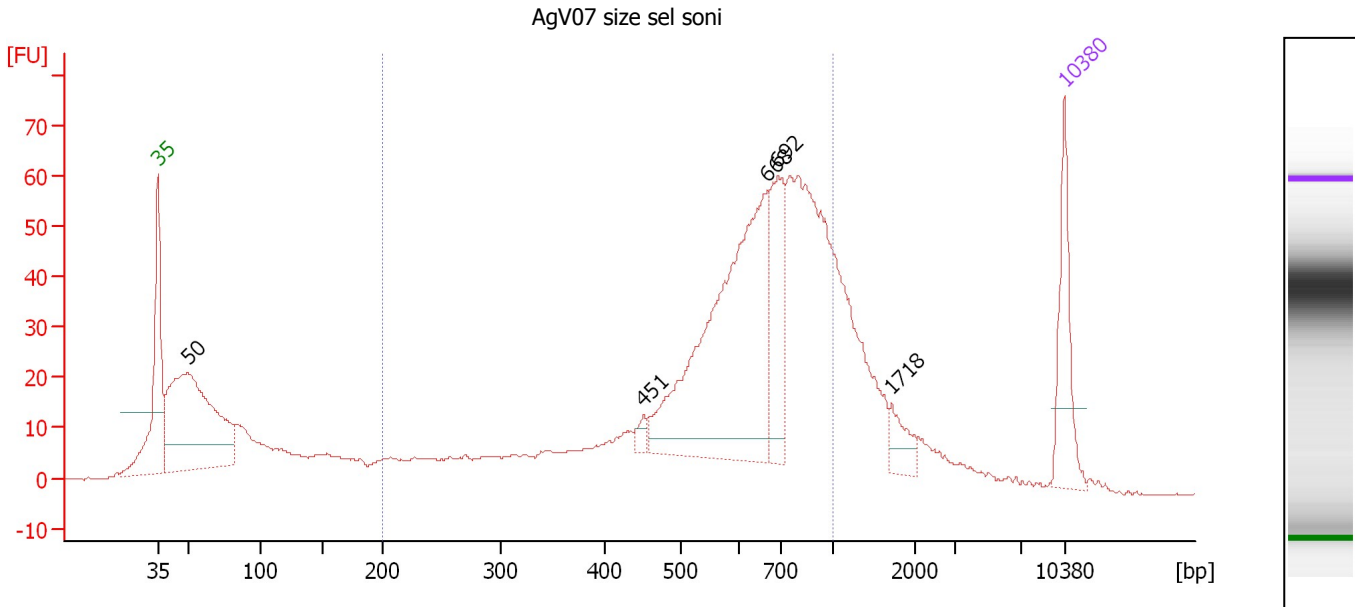
Region table for sample 5 : AgV06 size sel soni

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	626	214.78	257.0	581.9	67	26.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AgV07 size sel soni

Number of peaks found: 5 Corr. Area 1: 867.4
 Noise: 0.2

Peak table for sample 6 : AgV07 size sel soni

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	420.41	12,718.8		45.33
3	451	13.18	44.3		80.49
4	668	465.90	1,056.6		90.08
5	692	134.25	294.0		90.84
6	1,718	28.94	25.5		99.67
7	10,380	75.00	10.9	Upper Marker	113.00

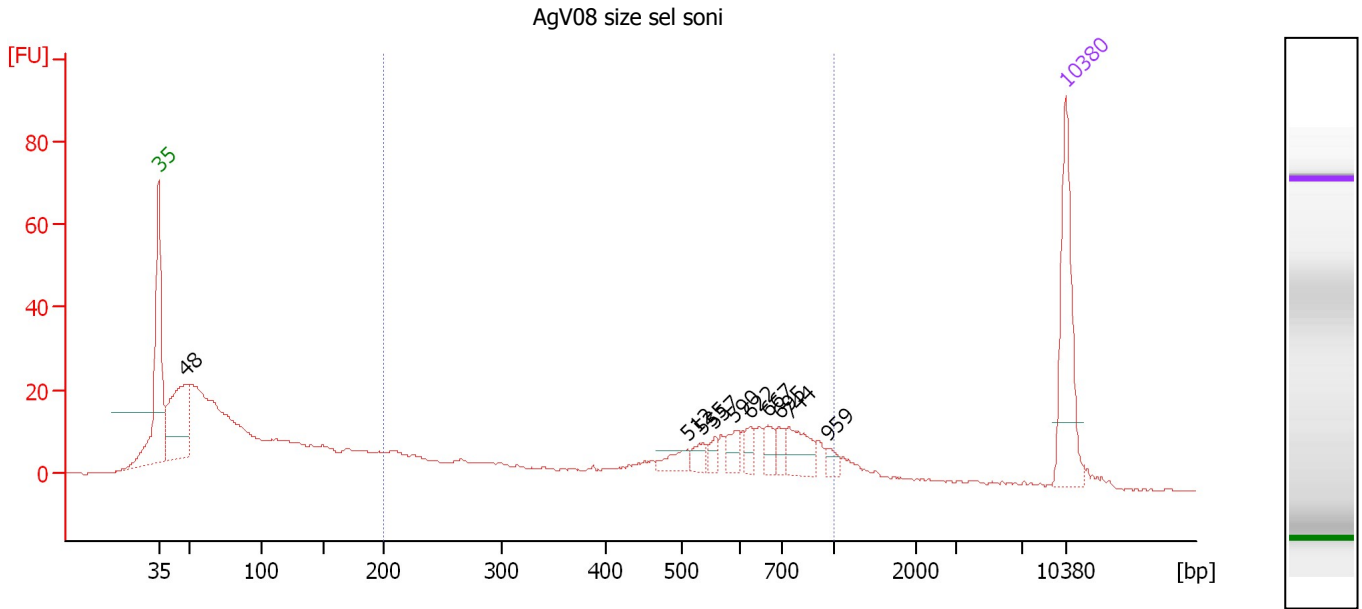
Region table for sample 6 : AgV07 size sel soni

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	625	1,431.81	867.4	4,214.3	62	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AgV08 size sel soni

Number of peaks found: 10 Corr. Area 1: 281.5
 Noise: 0.2

Peak table for sample 7 : AgV08 size sel soni

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	48	119.15	3,750.7		45.03
3	512	14.95	44.3		83.85
4	535	11.17	31.6		84.95
5	557	7.85	21.4		85.93
6	590	13.60	34.9		87.47
7	622	12.80	31.2		88.62
8	667	13.54	30.8		90.05
9	695	10.95	23.9		90.93
10	744	30.29	61.7		91.70
11	959	7.91	12.5		94.61
12	10,380	75.00	10.9	Upper Marker	113.00

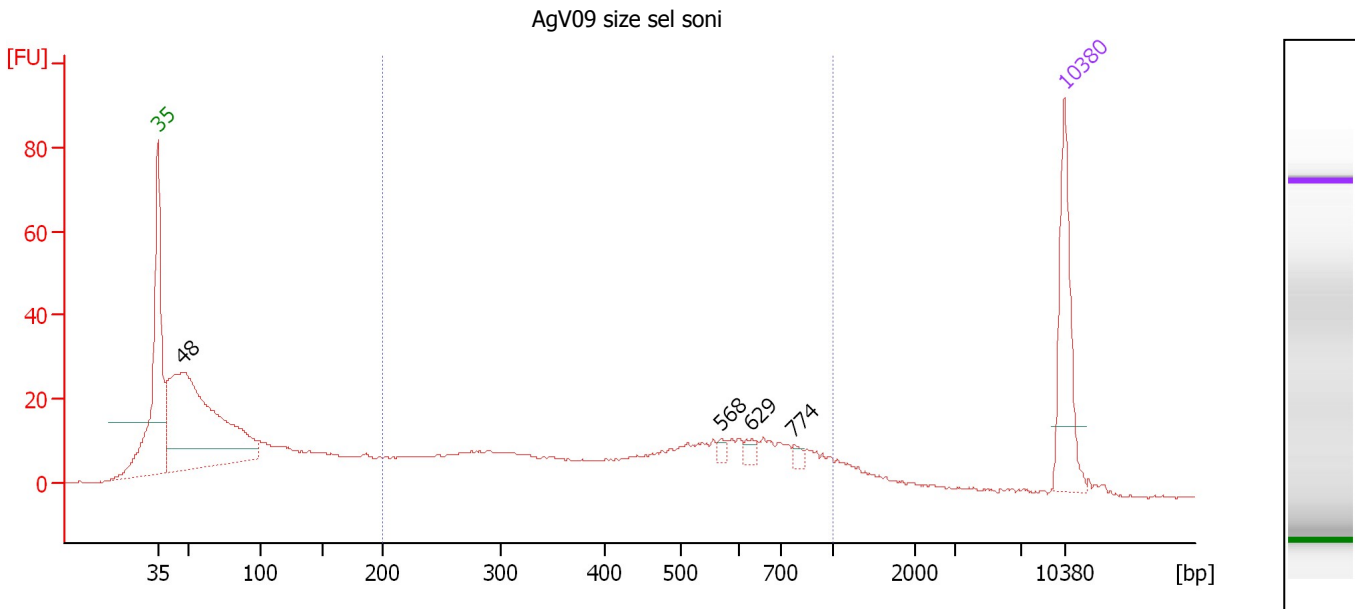
Region table for sample 7 : AgV08 size sel soni

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	535	376.57	281.5	1,419.4	40	38.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : AgV09 size sel soni

Number of peaks found: 4 Corr. Area 1: 393.4
 Noise: 0.2

Peak table for sample 8 : AgV09 size sel soni

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	48	424.26	13,420.7		45.00
3	568	5.42	14.5		86.45
4	629	7.96	19.2		88.84
5	774	6.27	12.3		92.11
6	10,380	75.00	10.9	Upper Marker	113.00

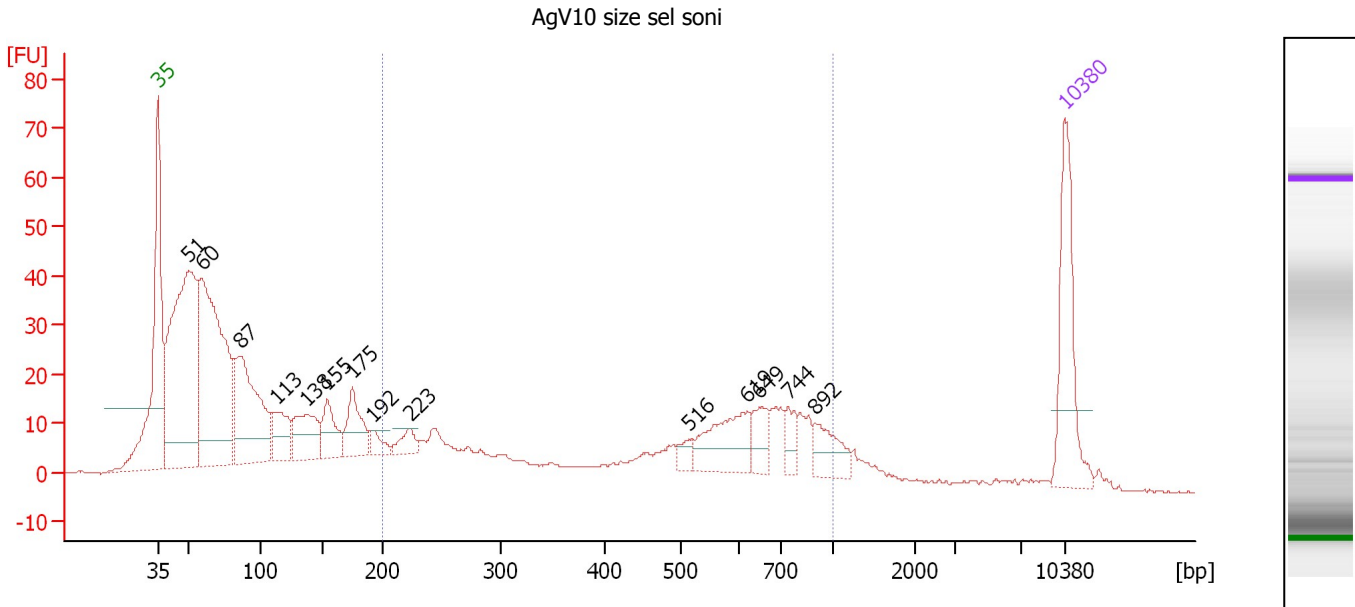
Region table for sample 8 : AgV09 size sel soni

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	478	537.16	393.4	2,184.7	45	40.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AgV10 size sel soni

Number of peaks found: 14 Corr. Area 1: 348.6
 Noise: 0.3

Peak table for sample 9 : AgV10 size sel soni

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	51	384.18	11,370.7		45.45
3	60	340.23	8,642.5		46.40
4	87	176.10	3,084.6		49.41
5	113	48.55	648.4		52.20
6	138	64.72	709.7		54.55
7	155	43.70	428.1		56.11
8	175	52.10	450.4		58.06
9	192	15.19	120.1		59.62
10	223	17.57	119.6		62.47
11	516	11.31	33.2		84.05
12	619	59.90	146.6		88.51
13	649	23.79	55.6		89.46
14	744	18.16	37.0		91.69
15	892	30.56	51.9		93.70
16	10,380	75.00	10.9	Upper Marker	113.00

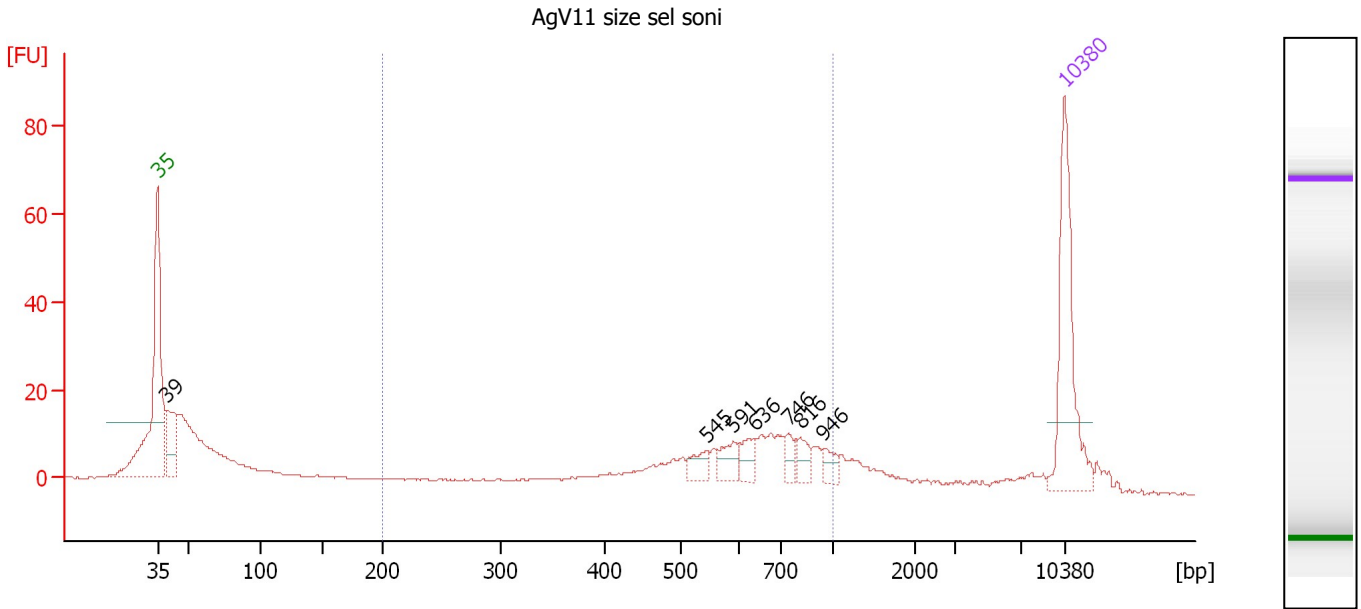
Region table for sample 9 : AgV10 size sel soni

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	521	495.63	348.6	1,958.5	32	41.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : AgV11 size sel soni

Number of peaks found: 7 Corr. Area 1: 189.9
 Noise: 0.2

Peak table for sample 10 : AgV11 size sel soni

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	39	52.70	2,027.6		43.68
3	545	12.17	33.8		85.40
4	591	16.04	41.1		87.48
5	636	14.03	33.4		89.06
6	746	9.91	20.1		91.72
7	816	12.03	22.3		92.68
8	946	9.13	14.6		94.43
9	10,380	75.00	10.9	Upper Marker	113.00

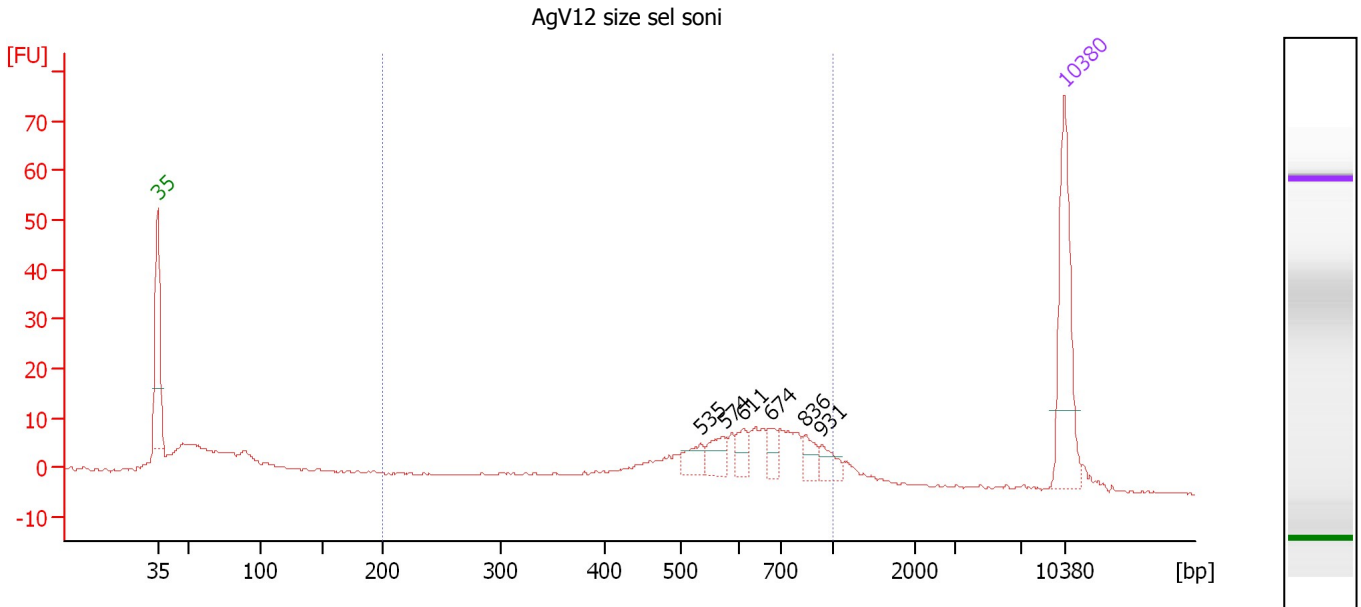
Region table for sample 10 : AgV11 size sel soni

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	601	218.98	189.9	657.3	46	30.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
 Modified: 5/11/2018 10:51:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AgV12 size sel soni

Number of peaks found: 6 Corr. Area 1: 165.5
 Noise: 0.2

Peak table for sample 11 : AgV12 size sel soni

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	535	15.83	44.8		84.93
3	574	19.15	50.5		86.74
4	611	13.50	33.5		88.26
5	674	13.87	31.2		90.29
6	836	14.19	25.7		92.94
7	931	13.16	21.4		94.23
8	10,380	75.00	10.9	Upper Marker	113.00

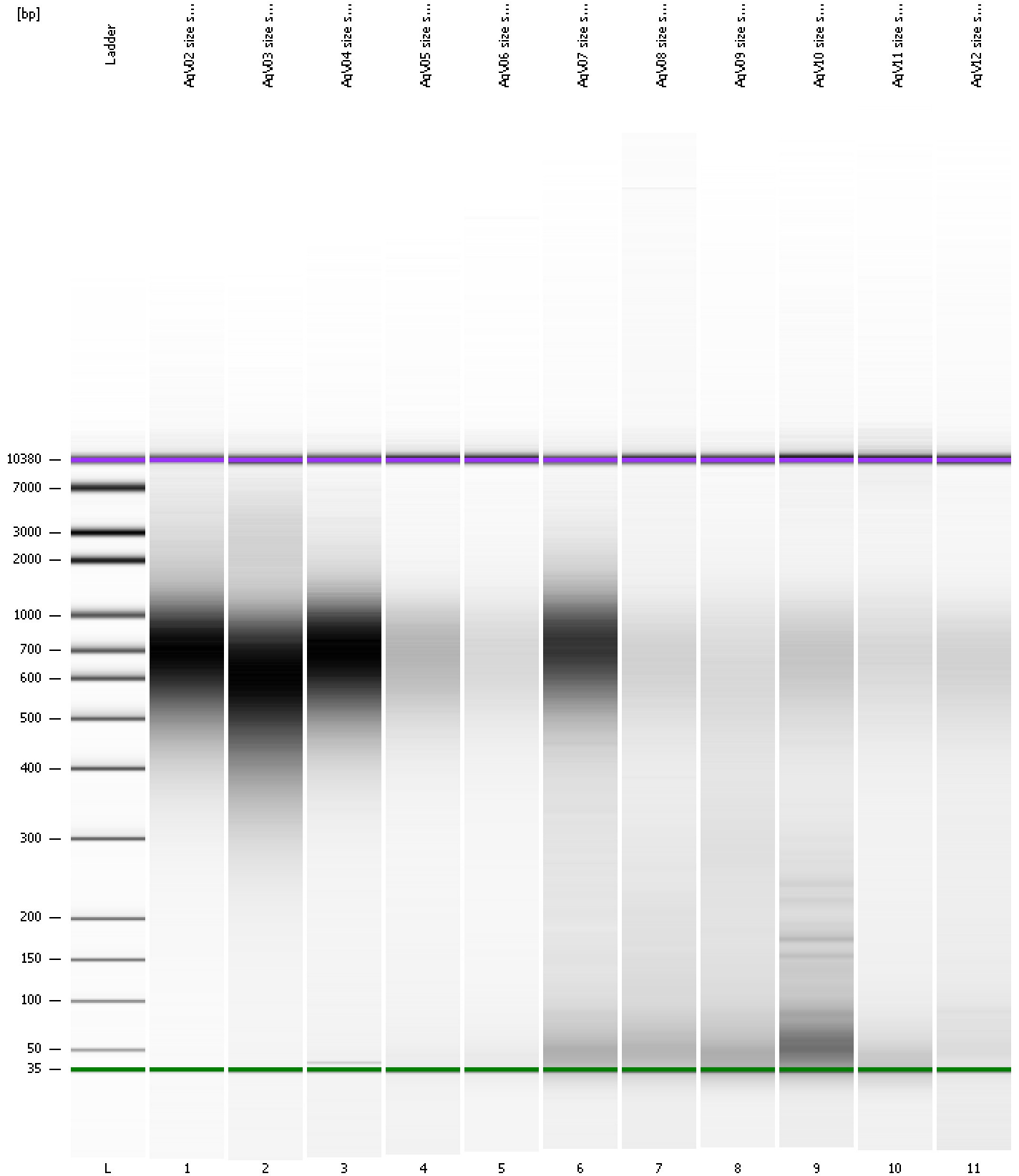
Region table for sample 11 : AgV12 size sel soni

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	609	240.33	165.5	692.5	59	28.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
Modified: 5/11/2018 10:51:39 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-05-11\2018-05-11_001.xad

Created: 5/11/2018 10:10:22 AM
Modified: 5/11/2018 10:51:39 AM

Curves

Standard Curve

