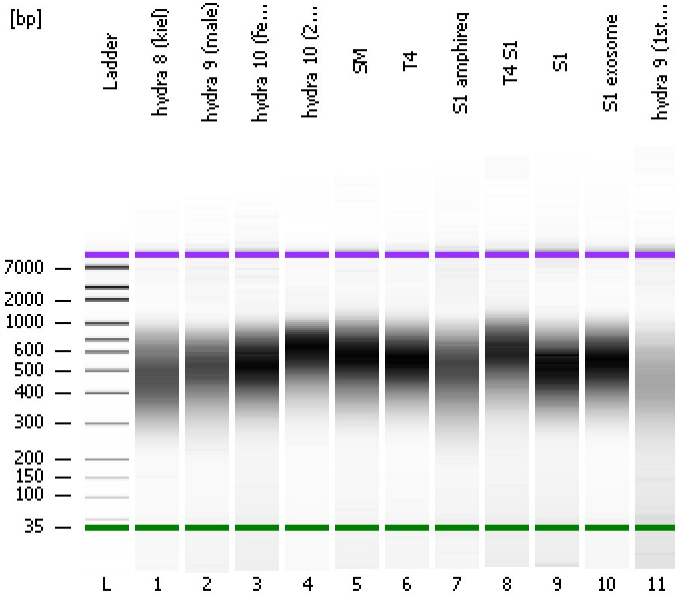


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
Modified: 6/23/2017 4:39:26 PM

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

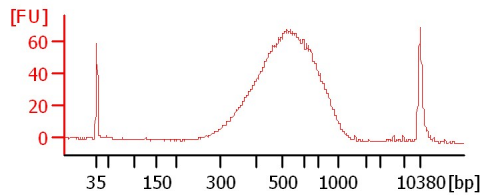
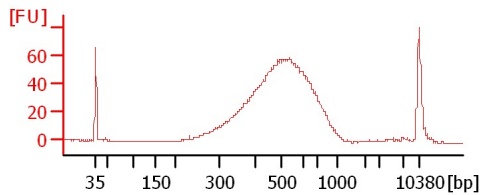
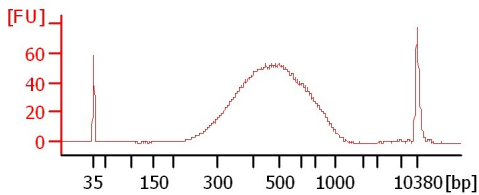
Chip Information:

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

hydra 8 (kiel)

hydra 9 (male)

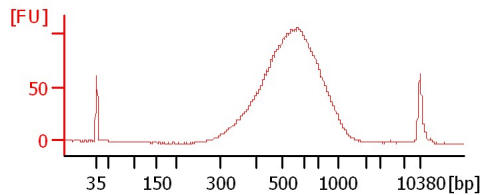
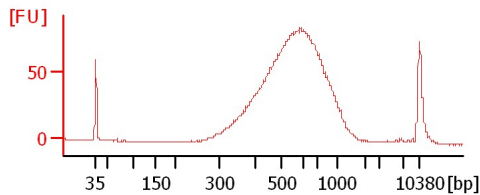
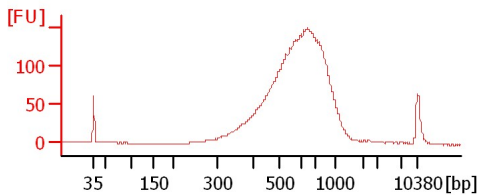
hydra 10 (female)



hydra 10 (2nd spri)

SM

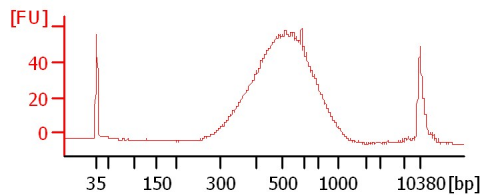
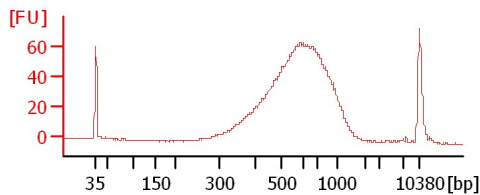
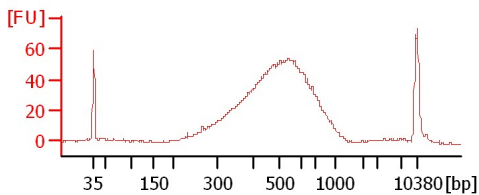
T4



S1 amphireq

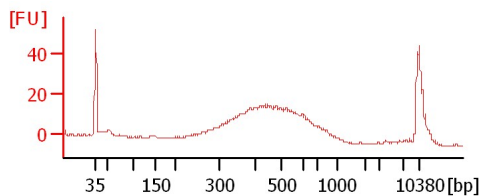
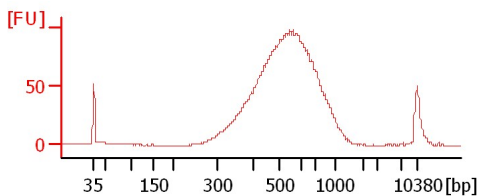
T4 S1

S1



S1 exosome

hydra 9 (1st spri)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
hydra 8 (kiel)		<input type="checkbox"/>	✓			
hydra 9 (male)		<input type="checkbox"/>	✓			
hydra 10 (female)		<input type="checkbox"/>	✓			
hydra 10 (2nd spri)		<input type="checkbox"/>	✓			
SM		<input type="checkbox"/>	✓			
T4		<input type="checkbox"/>	✓			
S1 amphireg		<input type="checkbox"/>	✓			
T4 S1		<input type="checkbox"/>	✓			
S1		<input type="checkbox"/>	✓			
S1 exosome		<input type="checkbox"/>	✓			
hydra 9 (1st spri)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

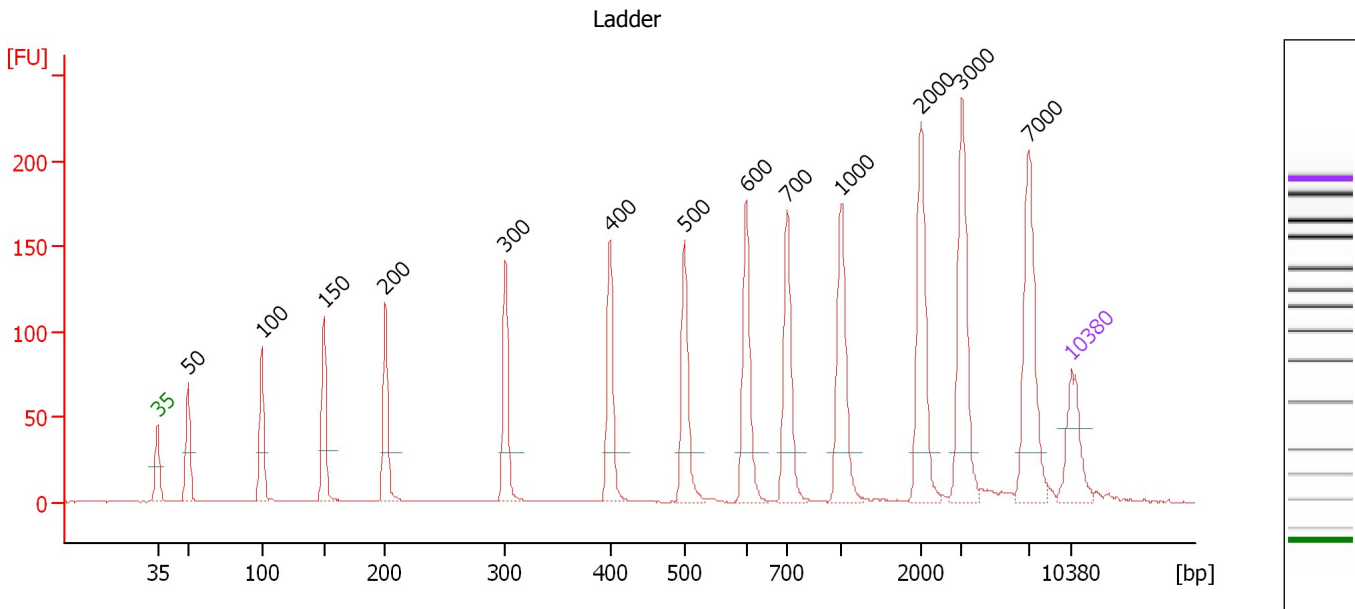
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

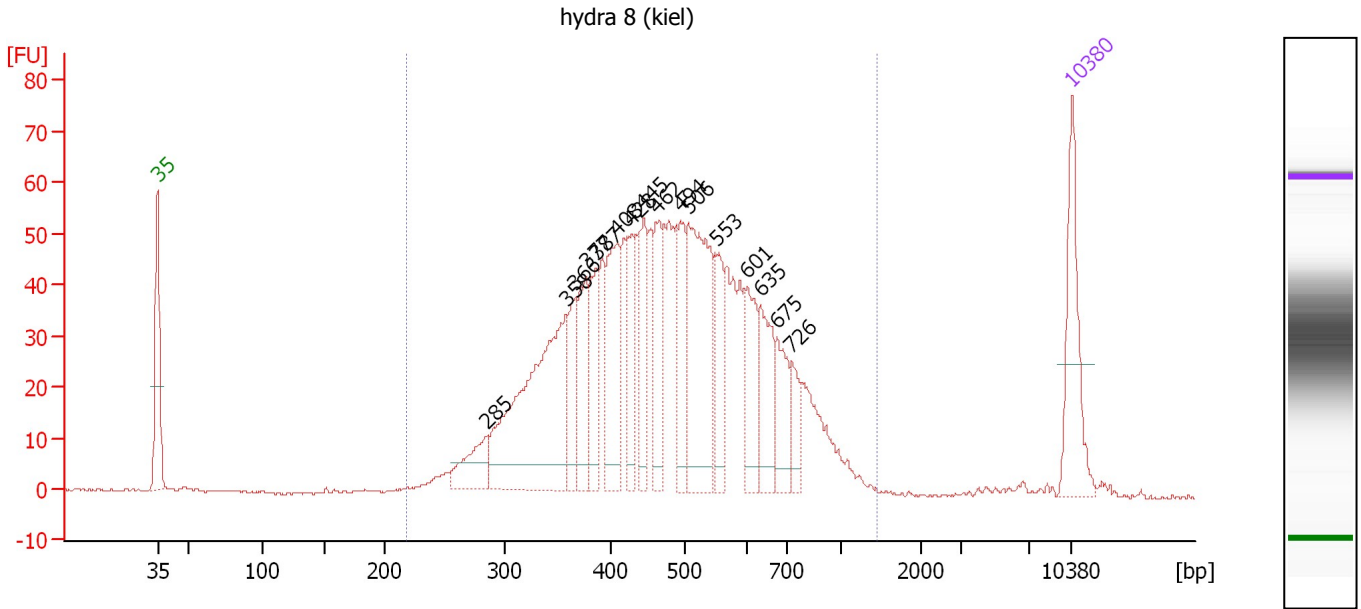
Peak table for Ladder

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	45.34
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.73
5	200	150.00	1,136.4	Ladder Peak	60.46
6	300	150.00	757.6	Ladder Peak	69.63
7	400	150.00	568.2	Ladder Peak	77.64
8	500	150.00	454.5	Ladder Peak	83.35
9	600	150.00	378.8	Ladder Peak	88.08
10	700	150.00	324.7	Ladder Peak	91.18
11	1,000	150.00	227.3	Ladder Peak	95.37
12	2,000	150.00	113.6	Ladder Peak	101.44
13	3,000	150.00	75.8	Ladder Peak	104.59
14	7,000	150.00	32.5	Ladder Peak	109.67
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : hydra 8 (kiel)

Number of peaks found: 16 Corr. Area 1: 1,294.5
 Noise: 0.2

Peak table for sample 1 : hydra 8 (kiel)

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	285	53.22	283.0		68.25
3	358	293.62	1,243.8		74.25
4	366	57.83	239.3		74.93
5	377	73.36	294.9		75.79
6	387	63.89	250.1		76.60
7	408	107.35	398.8		78.09
8	428	62.71	221.8		79.26
9	445	64.10	218.2		80.21
10	462	72.80	238.5		81.21
11	494	71.23	218.5		83.01
12	506	196.47	588.1		83.65
13	553	53.65	147.0		85.86
14	601	67.36	169.7		88.12
15	635	71.11	169.7		89.15
16	675	50.79	113.9		90.42
17	726	26.08	54.4		91.55
18	10,380	75.00	10.9	Upper Marker	113.00

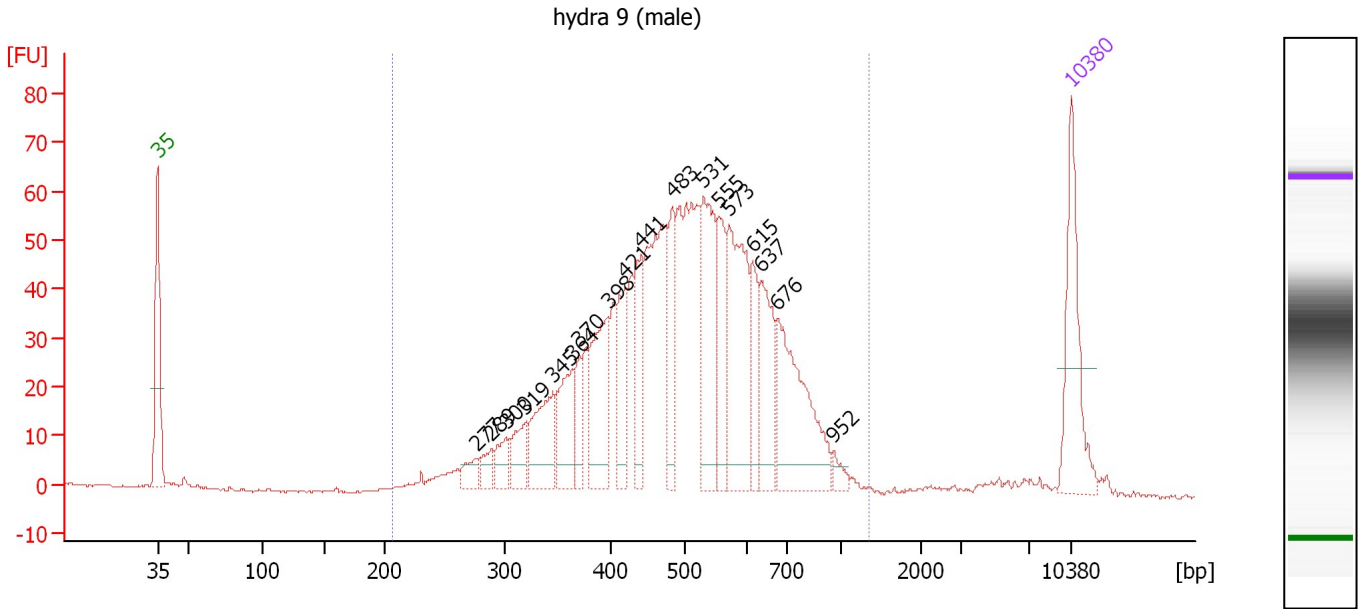
Region table for sample 1 : hydra 8 (kiel)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
217	1,443	495	1,294.5	6,745.2	1,955.87	98	31.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : hydra 9 (male)

Number of peaks found: 18 Corr. Area 1: 1,206.0
 Noise: 0.3

Peak table for sample 2 : hydra 9 (male)

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	19.53	107.0		67.49
3	289	18.18	95.5		68.58
4	300	23.87	120.4		69.66
5	319	36.63	174.0		71.15
6	345	73.40	322.4		73.23
7	364	62.82	261.4		74.77
8	370	30.54	124.9		75.27
9	398	95.05	361.8		77.48
10	421	55.27	198.9		78.84
11	441	59.83	205.3		80.01
12	483	65.31	204.7		82.41
13	531	118.36	337.9		84.80
14	555	58.23	159.1		85.93
15	573	141.43	374.1		86.79
16	615	47.35	116.6		88.55
17	637	70.53	167.7		89.23
18	676	133.79	299.7		90.45
19	952	8.72	13.9		94.70
20	10,380	75.00	10.9	Upper Marker	113.00

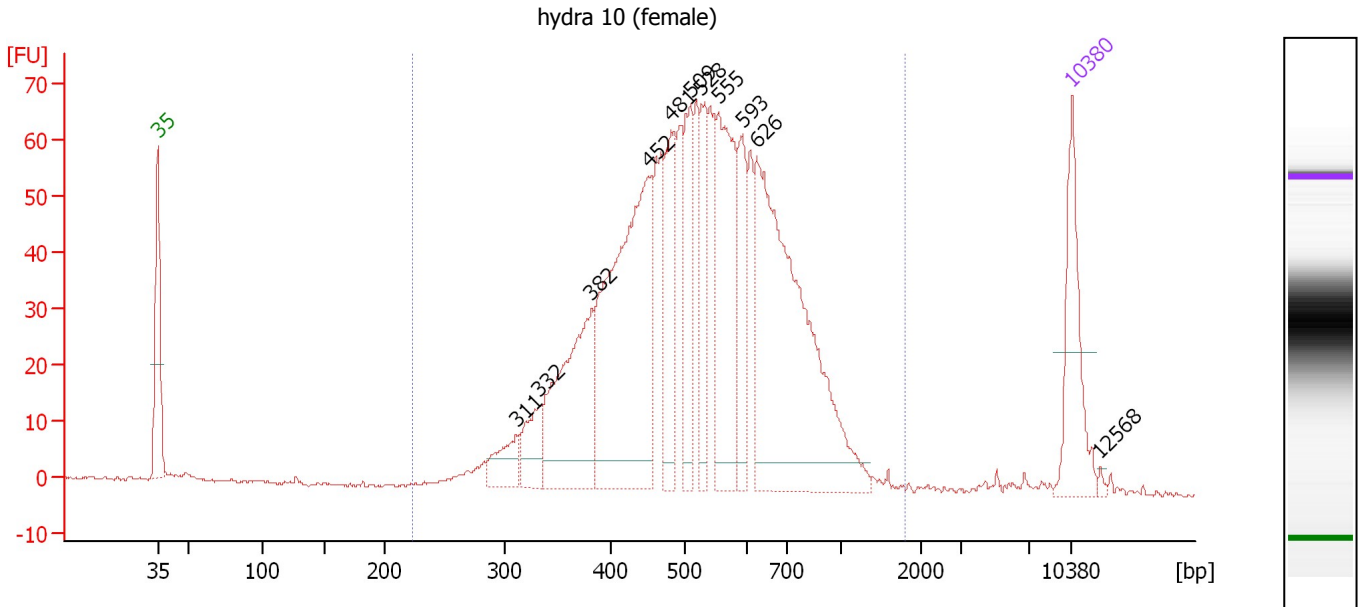
Region table for sample 2 : hydra 9 (male)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
206	1,335	513	1,206.0	5,372.4	1,634.71	97	27.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : hydra 10 (female)

Number of peaks found: 11 Corr. Area 1: 1,340.8
 Noise: 0.4

Peak table for sample 3 : hydra 10 (female)

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	311	38.37	187.0		70.50
3	332	46.36	211.5		72.20
4	382	189.00	748.8		76.24
5	452	361.09	1,209.2		80.64
6	481	102.78	323.5		82.29
7	509	91.48	272.1		83.80
8	528	74.87	214.9		84.67
9	555	173.51	473.6		85.95
10	593	74.22	189.7		87.74
11	626	392.06	948.8		88.89
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,568	0.00	0.0		115.15

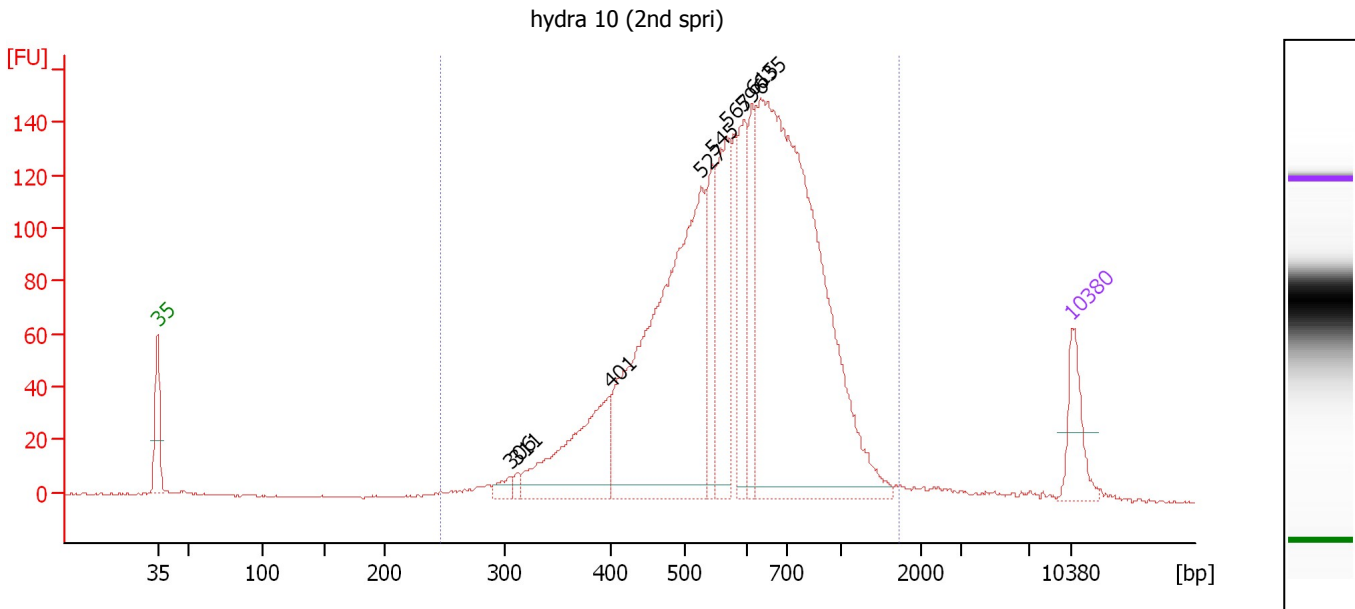
Region table for sample 3 : hydra 10 (female)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
222	1,810	546	1,340.8	5,831.9	1,890.74	98	31.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : hydra 10 (2nd spri)

Number of peaks found: 9 Corr. Area 1: 2,464.8
 Noise: 0.2

Peak table for sample 4 : hydra 10 (2nd spri)

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	306	24.07	119.3		70.08
3	311	13.13	63.9		70.55
4	401	296.63	1,122.0		77.67
5	527	957.23	2,754.6		84.61
6	545	155.23	431.3		85.50
7	567	242.93	648.9		86.53
8	596	186.52	474.2		87.89
9	615	139.30	343.2		88.54
10	635	1,337.52	3,193.4		89.15
11	10,380	75.00	10.9	Upper Marker	113.00

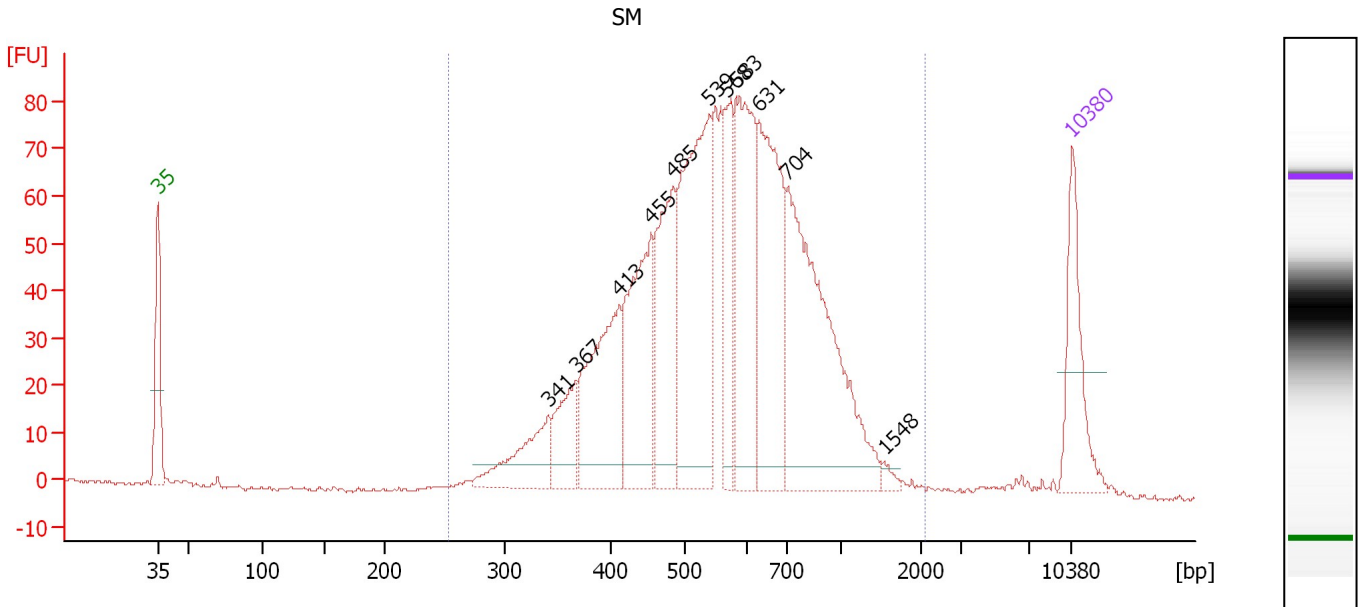
Region table for sample 4 : hydra 10 (2nd spri)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
247	1,730	623	2,464.8	9,436.5	3,460.59	98	31.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SM

Number of peaks found: 11 Corr. Area 1: 1,536.7
 Noise: 0.4

Peak table for sample 5 : SM

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	341	86.68	385.5		72.89
3	367	68.76	283.5		75.03
4	413	183.57	674.2		78.36
5	455	182.49	607.7		80.78
6	485	164.78	514.9		82.49
7	539	296.39	833.0		85.20
8	568	83.90	223.7		86.58
9	583	195.91	508.8		87.29
10	631	214.10	513.8		89.05
11	704	343.79	740.1		91.23
12	1,548	6.75	6.6		98.70
13	10,380	75.00	10.9	Upper Marker	113.00

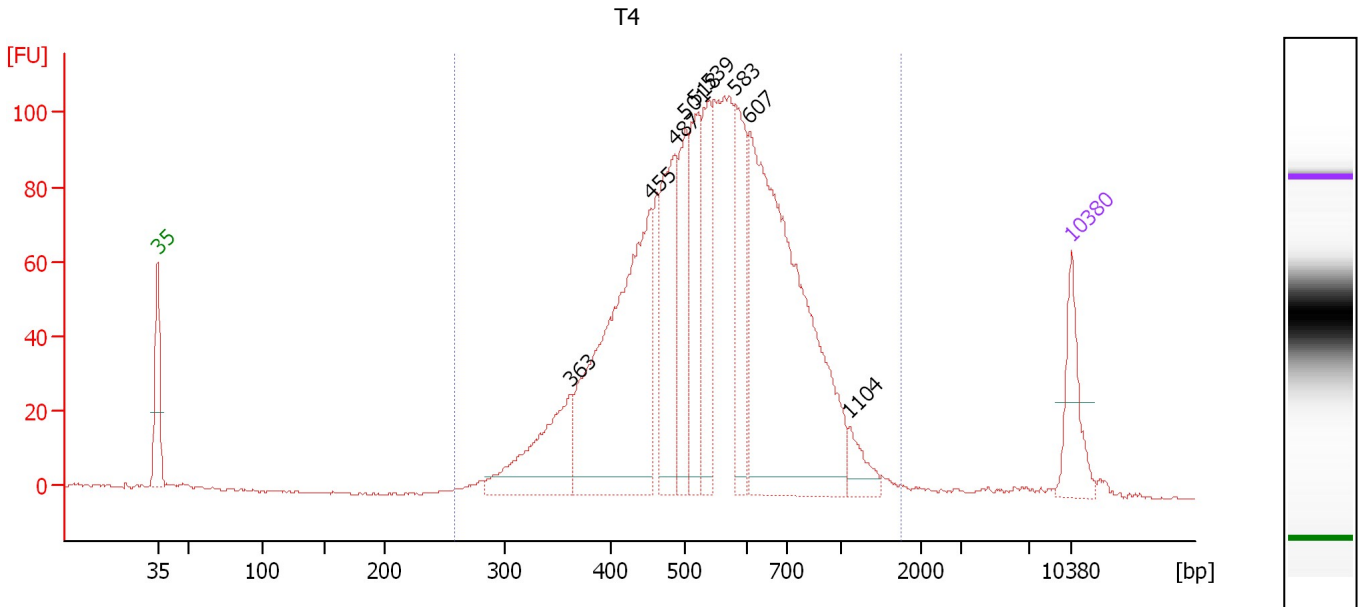
Region table for sample 5 : SM

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
253	2,126	597	1,536.7	5,554.3	1,931.33	99	34.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : T4

Number of peaks found: 9 Corr. Area 1: 1,906.8
 Noise: 0.3

Peak table for sample 6 : T4

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	363	208.30	870.2		74.65
3	455	608.97	2,028.8		80.77
4	487	230.12	716.2		82.60
5	501	149.77	452.6		83.42
6	518	164.51	481.5		84.19
7	539	164.93	463.5		85.20
8	583	176.09	457.6		87.27
9	607	750.67	1,874.6		88.29
10	1,104	39.15	53.8		95.99
11	10,380	75.00	10.9	Upper Marker	113.00

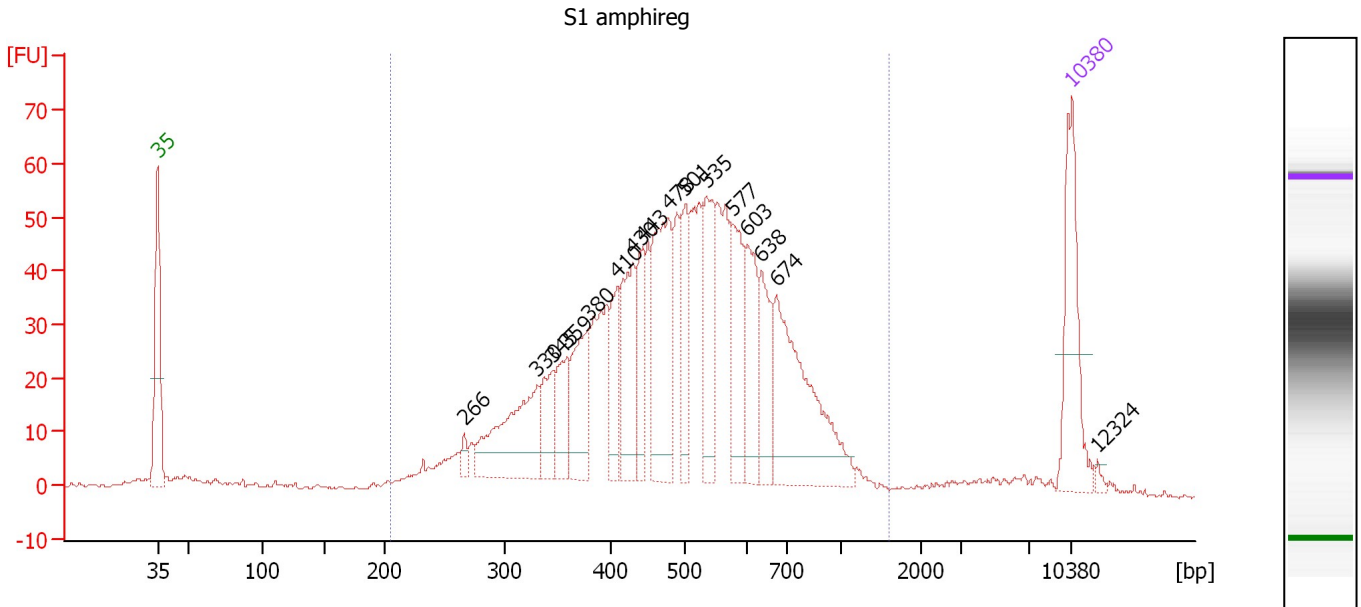
Region table for sample 6 : T4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
258	1,740	571	1,906.8	8,569.3	2,910.13	99	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : S1 amphireg

Number of peaks found: 16 Corr. Area 1: 1,185.8
 Noise: 0.4

Peak table for sample 7 : S1 amphireg

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	266	10.08	57.4		66.51
3	330	122.75	563.0		72.06
4	345	42.86	188.2		73.24
5	359	44.99	189.8		74.37
6	380	80.18	319.7		76.04
7	410	46.78	173.0		78.20
8	430	85.36	300.5		79.37
9	443	48.04	164.2		80.11
10	478	137.34	435.7		82.07
11	501	55.41	167.6		83.40
12	535	83.86	237.4		85.02
13	577	70.22	184.4		86.98
14	603	67.93	170.8		88.16
15	638	58.17	138.3		89.24
16	674	167.27	376.1		90.37
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,324	0.00	0.0		114.91

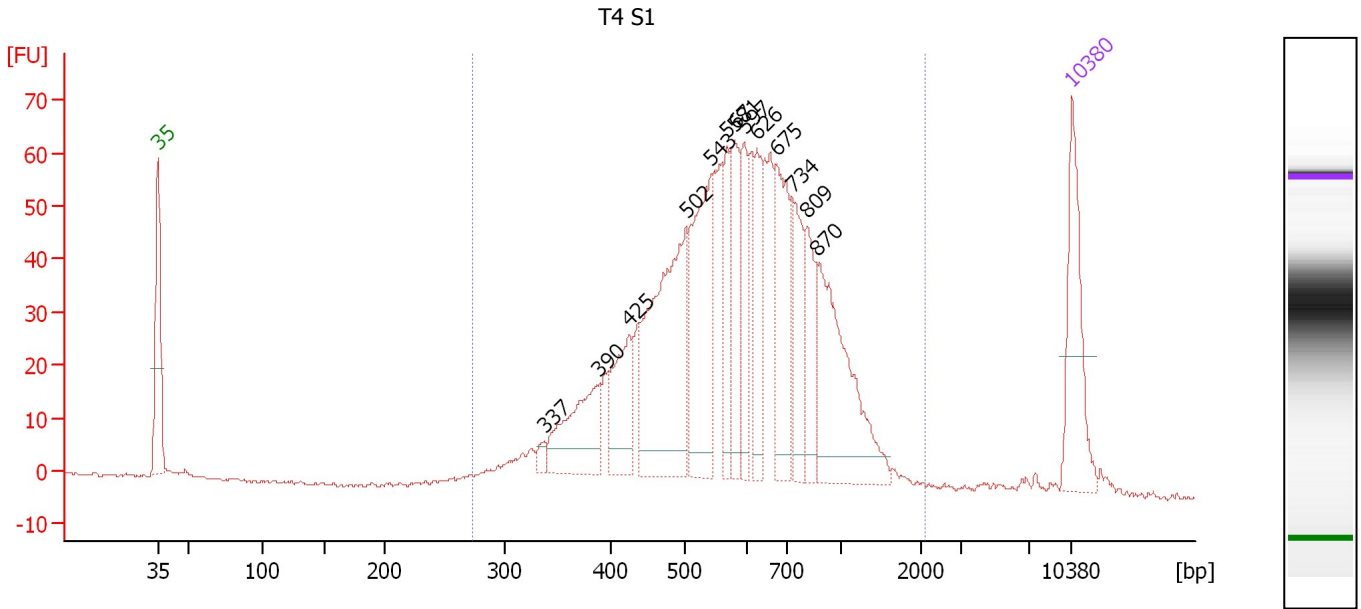
Region table for sample 7 : S1 amphireg

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
205	1,590	513	1,185.8	5,622.1	1,665.04	95	32.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : T4 S1

Number of peaks found: 13 Corr. Area 1: 1,146.0
 Noise: 0.3

Peak table for sample 8 : T4 S1

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	337	9.30	41.8		72.60
3	390	91.06	353.9		76.83
4	425	78.10	278.4		79.07
5	502	235.13	709.7		83.45
6	543	158.34	441.7		85.39
7	567	61.38	163.9		86.53
8	581	71.24	185.8		87.18
9	597	59.87	152.0		87.93
10	626	58.79	142.4		88.87
11	675	105.59	236.9		90.41
12	734	66.30	136.8		91.66
13	809	56.50	105.8		92.70
14	870	158.26	275.7		93.55
15	10,380	75.00	10.9	Upper Marker	113.00

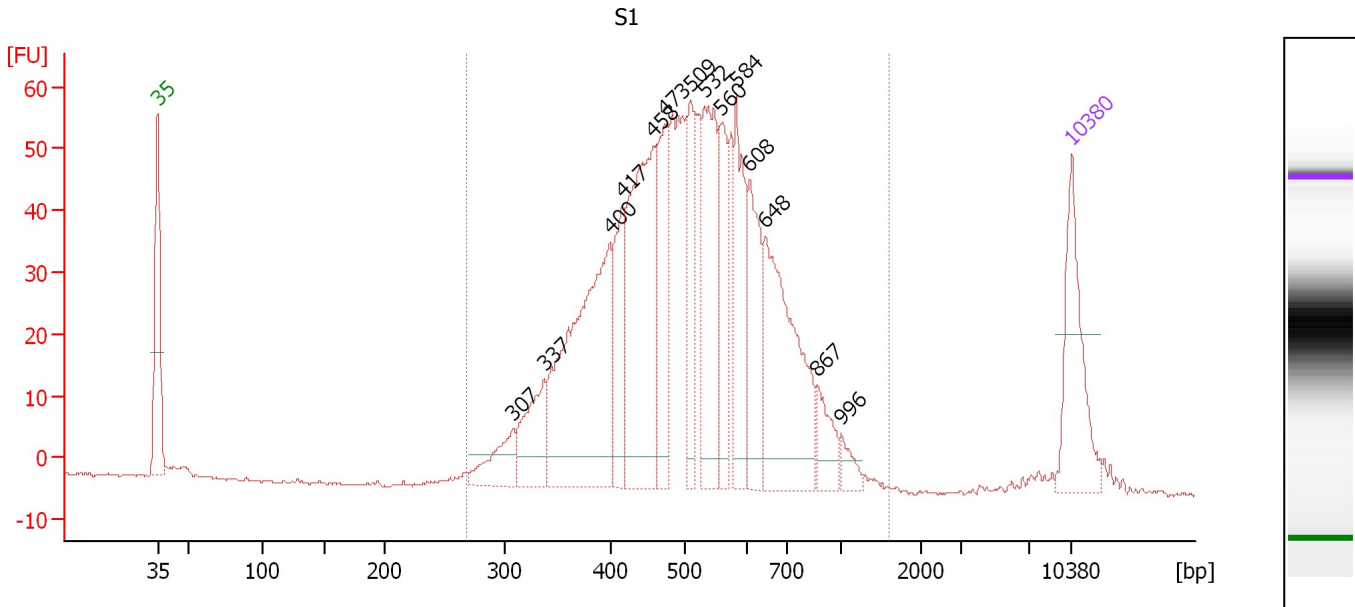
Region table for sample 8 : T4 S1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
272	2,081	628	1,146.0	4,239.9	1,541.77	99	35.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : S1

Number of peaks found: 14 Corr. Area 1: 1,119.6
 Noise: 0.2

Peak table for sample 9 : S1

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	307	47.19	232.5		70.23
3	337	70.39	316.6		72.58
4	400	281.18	1,065.6		77.63
5	417	84.10	305.4		78.62
6	458	231.39	764.9		80.97
7	473	104.03	333.1		81.82
8	509	79.11	235.6		83.77
9	532	145.18	413.4		84.87
10	560	69.47	188.1		86.17
11	584	94.46	245.1		87.32
12	608	90.81	226.4		88.32
13	648	186.41	435.9		89.57
14	867	32.34	56.5		93.51
15	996	13.77	20.9		95.31
16	10,380	75.00	10.9	Upper Marker	113.00

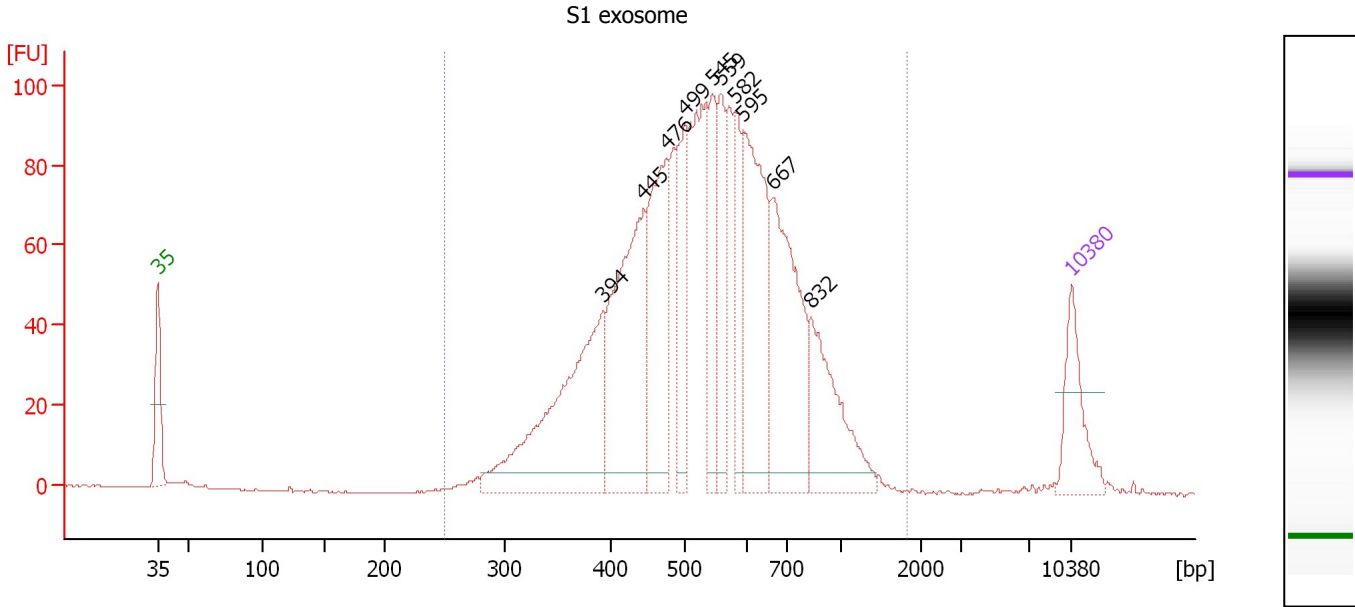
Region table for sample 9 : S1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
267	1,598	524	1,119.6	5,327.2	1,693.00	99	26.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : S1 exosome

Number of peaks found: 10 Corr. Area 1: 1,809.9
 Noise: 0.3

Peak table for sample 10 : S1 exosome

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	394	395.98	1,523.6		77.14
3	445	358.16	1,219.1		80.22
4	476	251.91	801.8		81.98
5	499	149.17	452.9		83.30
6	545	127.88	355.7		85.46
7	559	108.34	293.9		86.12
8	582	99.43	258.8		87.23
9	595	274.94	700.3		87.83
10	667	290.57	660.1		90.15
11	832	169.38	308.3		93.03
12	10,380	75.00	10.9	Upper Marker	113.00

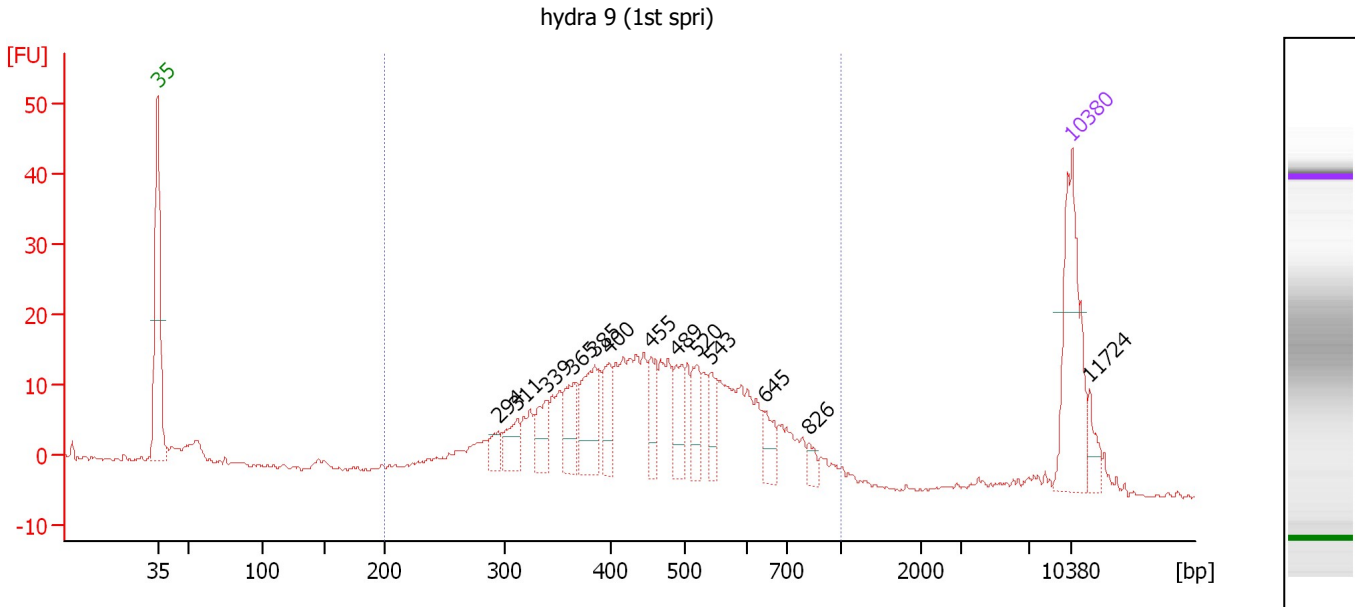
Region table for sample 10 : S1 exosome

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
250	1,814	559	1,809.9	8,059.9	2,679.05	99	30.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
 Modified: 6/23/2017 4:39:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : hydra 9 (1st spri)

Number of peaks found: 13 Corr. Area 1: 373.7
 Noise: 0.3

Peak table for sample 11 : hydra 9 (1st spri)

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	294	14.49	74.7		69.07
3	311	24.85	120.9		70.54
4	339	28.02	125.3		72.73
5	365	34.87	144.8		74.82
6	385	50.67	199.4		76.45
7	400	27.50	104.2		77.62
8	455	24.58	81.9		80.77
9	489	30.06	93.2		82.71
10	520	25.13	73.3		84.29
11	543	19.81	55.2		85.41
12	645	18.14	42.6		89.48
13	826	7.77	14.2		92.94
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,724	0.00	0.0		114.32

Region table for sample 11 : hydra 9 (1st spri)

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	472	373.7	2,384.7	669.86	93	27.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-23\2017-06-23_001.xad

Created: 6/23/2017 3:54:31 PM
Modified: 6/23/2017 4:39:26 PM

Gel Image

