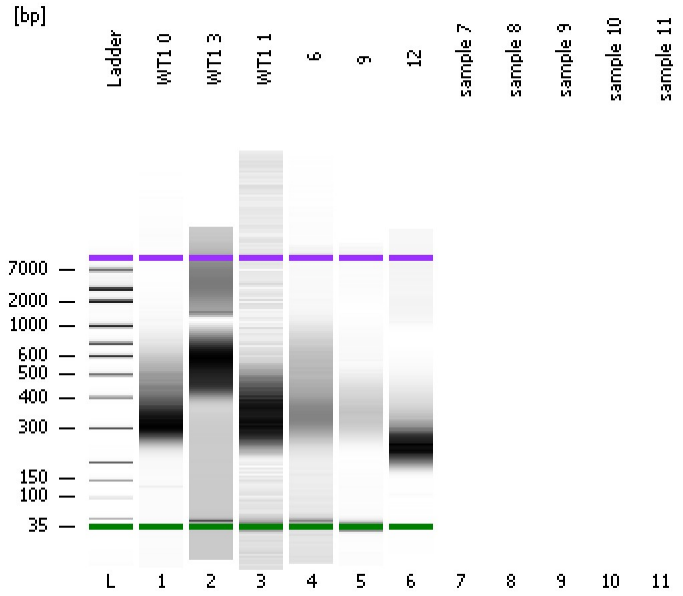
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electrophoresis File Run Summary



Instrument Information:

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

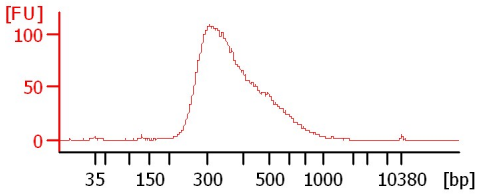
Assay Information:

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

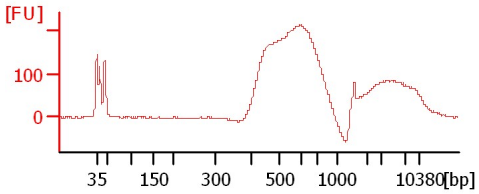
Chip Information:

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

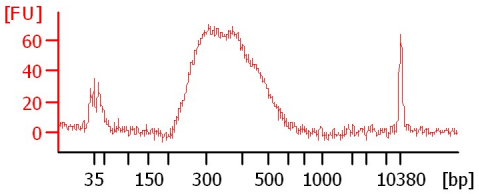
WT1 0



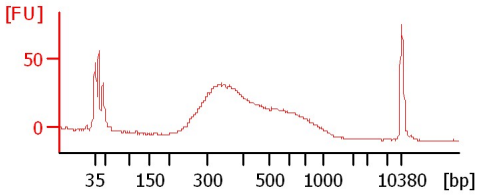
WT1 3



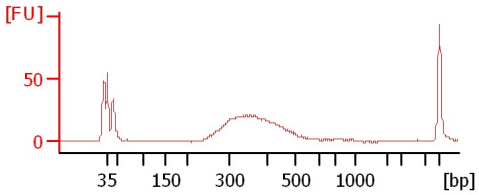
WT1 1



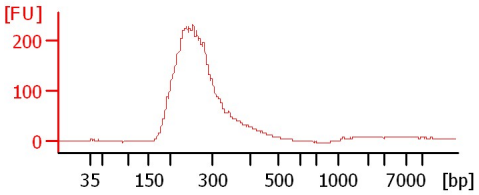
6



9



12



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WT1 0		☐	✔			
WT1 3		☐	✔			
WT1 1		☐	✔			
6		☐	✔			
9		☐	✔			
12		☐	✔			
sample 7		☐				
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:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 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

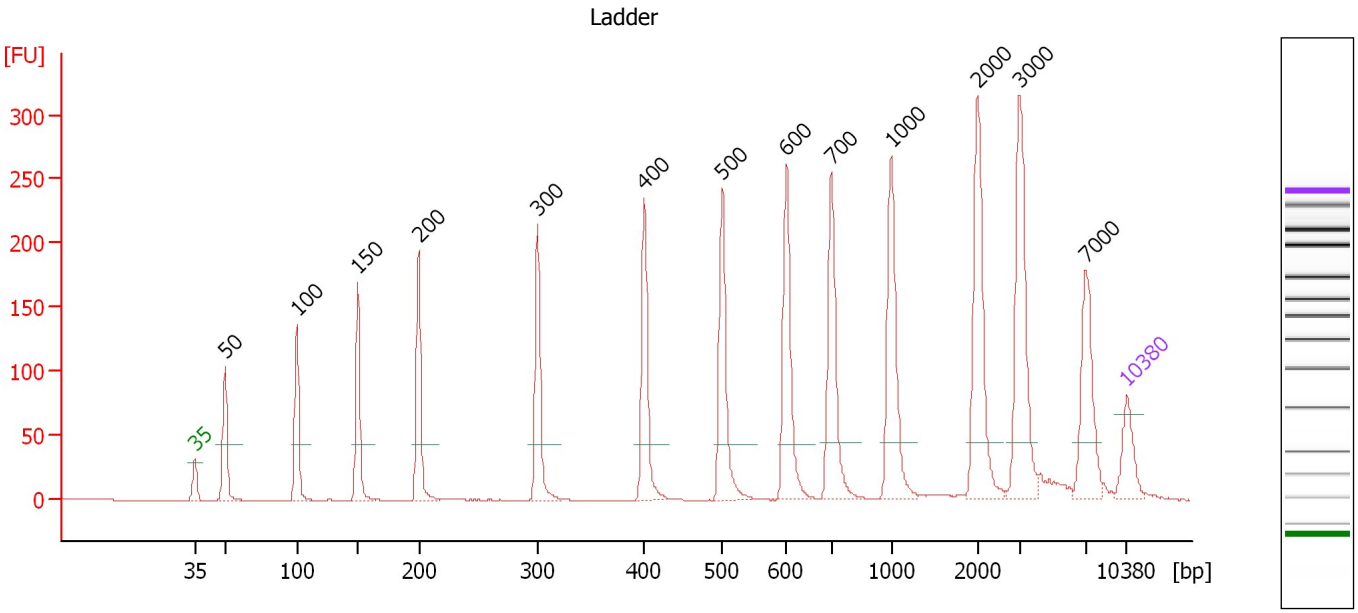
Ladder

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\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

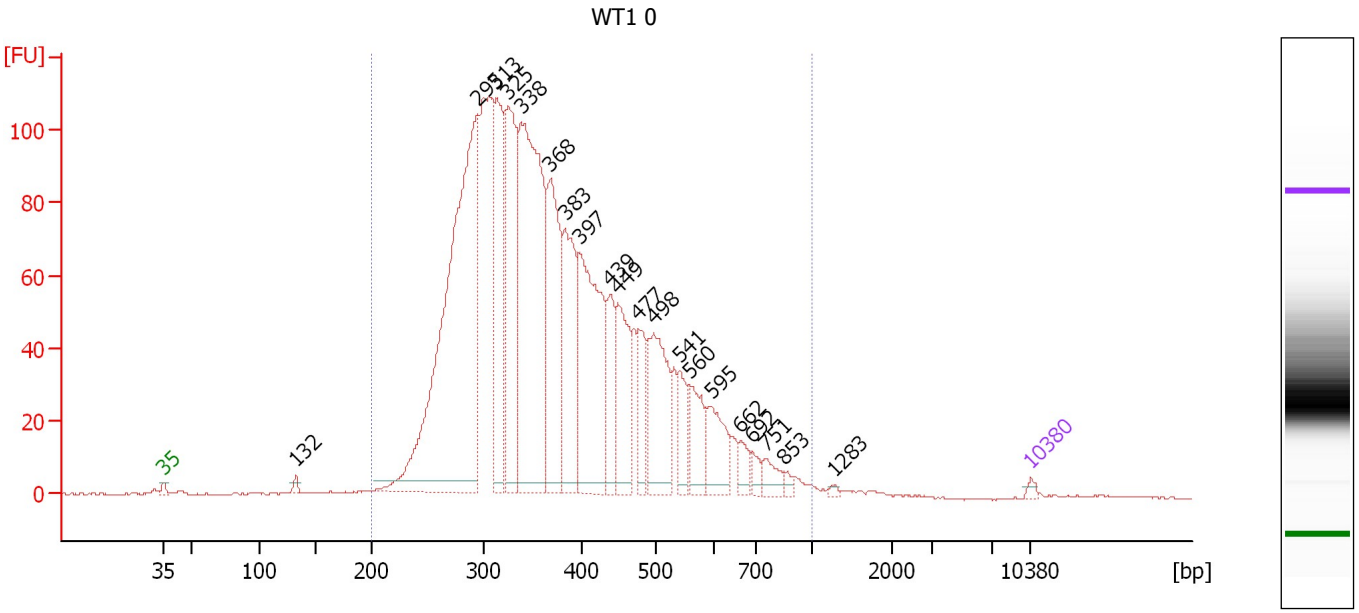
Peak table for Ladder

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	45.28
3		100	150.00	2,272.7	Ladder Peak	50.69
4		150	150.00	1,515.2	Ladder Peak	55.25
5		200	150.00	1,136.4	Ladder Peak	59.82
6		300	150.00	757.6	Ladder Peak	68.75
7		400	150.00	568.2	Ladder Peak	76.76
8		500	150.00	454.5	Ladder Peak	82.65
9		600	150.00	378.8	Ladder Peak	87.45
10		700	150.00	324.7	Ladder Peak	90.81
11		1,000	150.00	227.3	Ladder Peak	95.30
12		2,000	150.00	113.6	Ladder Peak	101.79
13		3,000	150.00	75.8	Ladder Peak	104.95
14		7,000	150.00	32.5	Ladder Peak	109.92
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : WT1 0

Height Threshold [FU] : 3

Overall Results for sample 1 : WT1 0

Number of peaks found: 20
Noise: 0.2
Corr. Area 1: 2,234.2

Peak table for sample 1 : WT1 0

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	132	139.73	1,599.9		53.64
3	295	14,747.20	75,693.5		68.32
4	313	3,913.30	18,937.7		69.80
5	325	4,851.63	22,633.7		70.73
6	338	9,430.26	42,234.2		71.82
7	368	4,192.21	17,268.2		74.18
8	383	3,390.42	13,426.7		75.36
9	397	5,132.76	19,571.6		76.55
10	439	1,457.33	5,028.9		79.06
11	449	2,211.69	7,461.3		79.65
12	477	1,253.11	3,982.6		81.28
13	498	2,743.96	8,354.2		82.51
14	541	887.99	2,486.0		84.63
15	560	1,088.13	2,945.9		85.51
16	595	1,283.33	3,270.6		87.19
17	662	374.84	857.3		89.55
18	692	292.85	641.4		90.54
19	751	425.47	858.8		91.57
20	853	125.78	223.5		93.10
21	1,283	63.79	75.3		97.14
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

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Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...

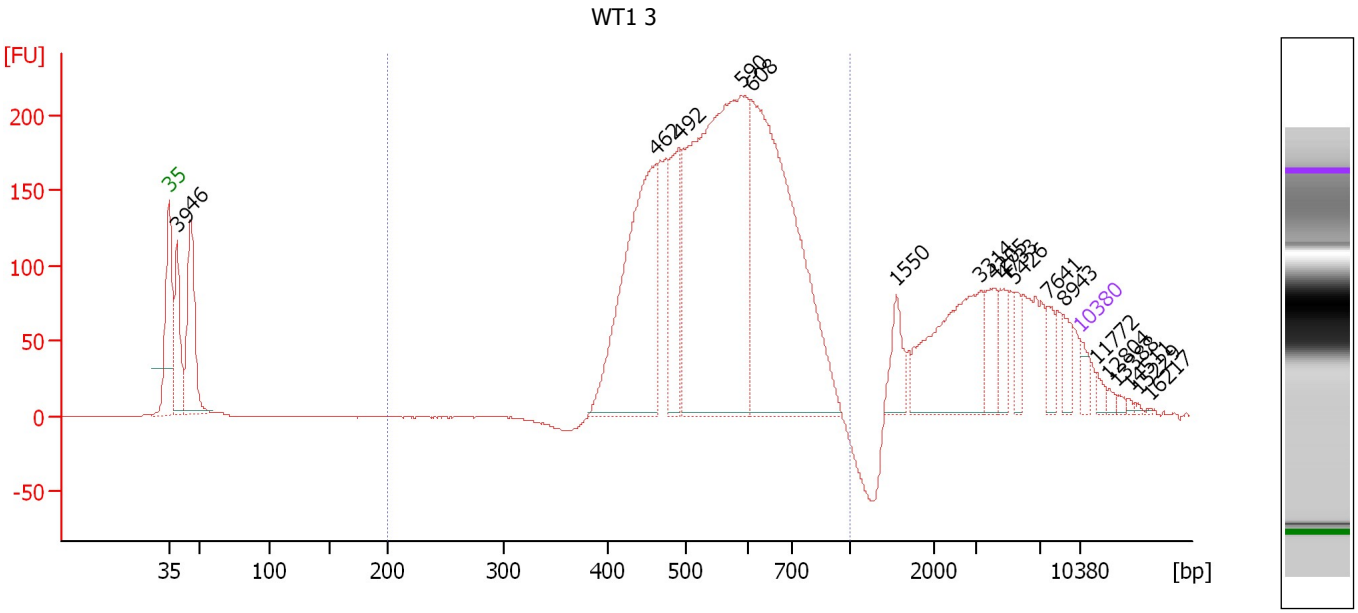
... Region table for sample 1 : WT1 0

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	387	2,234.2	295,515.2	68,537.30	98	29.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : WT1 3

Height Threshold [FU] : 2

Overall Results for sample 2 : WT1 3

Number of peaks found: 19
Noise: 0.2
Corr. Area 1: 3,540.8

Peak table for sample 2 : WT1 3

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	736.78	28,596.5		43.61
3	46	1,125.94	37,057.5		44.68
4	462	2,042.71	6,702.2		80.40
5	492	708.69	2,183.7		82.16
6	590	3,766.28	9,665.1		86.99
7	608	2,975.01	7,410.9		87.73
8	1,550	212.38	207.6		98.87
9	3,314	856.78	391.7		105.34
10	4,205	199.28	71.8		106.45
11	4,733	134.70	43.1		107.10
12	5,426	99.82	27.9		107.96
13	7,641	117.63	23.3		110.50
14	8,943	114.06	19.3		111.69
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,772	0.00	0.0		114.27
17	12,804	0.00	0.0		115.21
18	13,388	0.00	0.0		115.74
19	14,511	0.00	0.0		116.77
20	15,229	0.00	0.0		117.42
21	16,217	0.00	0.0		118.32

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...

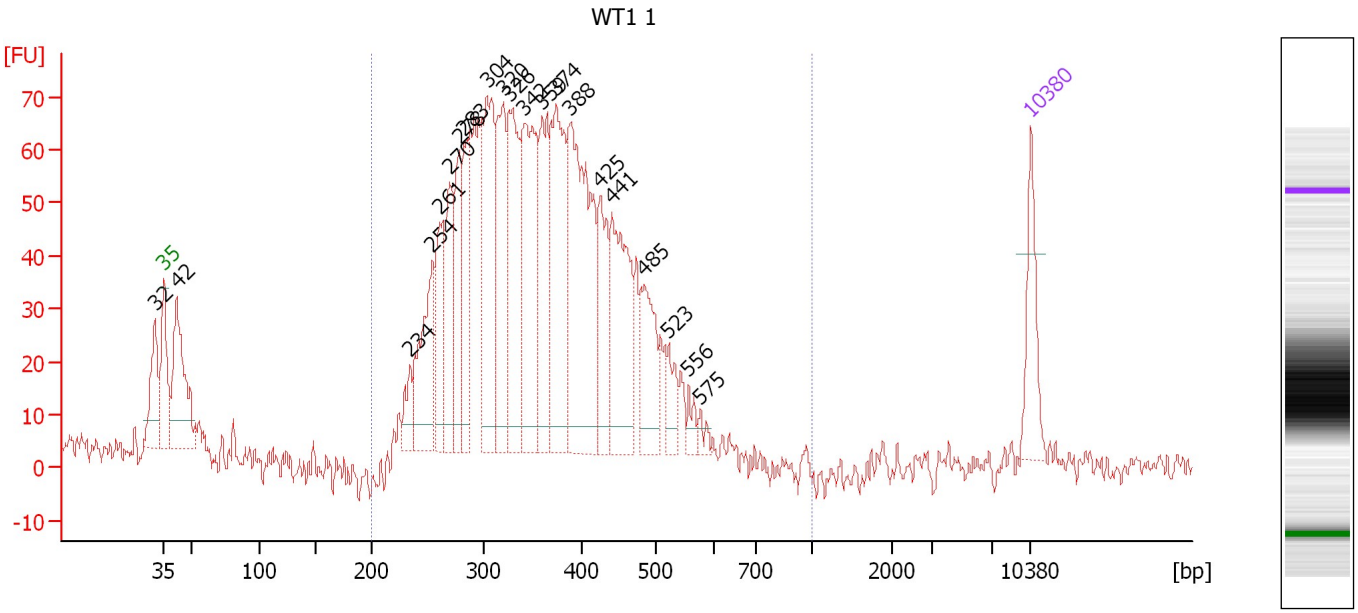
... Region table for sample 2 : WT1 3

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	567	3,540.8	28,938.2	10,353.57	70	18.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT1 1

Number of peaks found:	21	Corr. Area 1:	1,506.8
Noise:	3.2		

Peak table for sample 3 : WT1 1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1		32	0.00	0.0		42.23
2	◀	35	125.00	5,411.3	Lower Marker	43.00
3		42	234.41	8,503.1		44.03
4		234	47.22	305.3		62.88
5		254	159.40	951.2		64.63
6		261	120.67	701.0		65.25
7		270	146.39	821.3		66.08
8		278	140.48	765.2		66.80
9		283	150.59	807.0		67.21
10		304	268.83	1,340.2		69.06
11		320	196.29	929.4		70.35
12		326	234.20	1,087.0		70.87
13		342	293.24	1,299.7		72.10
14		359	193.41	815.8		73.49
15		374	258.49	1,047.1		74.68
16		388	392.10	1,530.5		75.81
17		425	126.57	451.2		78.23
18		441	216.65	744.7		79.16
19		485	115.41	360.2		81.79
20		523	46.48	134.7		83.74
21		556	19.62	53.5		85.34
22		575	14.02	36.9		86.27
23	▶	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay Created: 6/1/2016 4:03:29 PM
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...

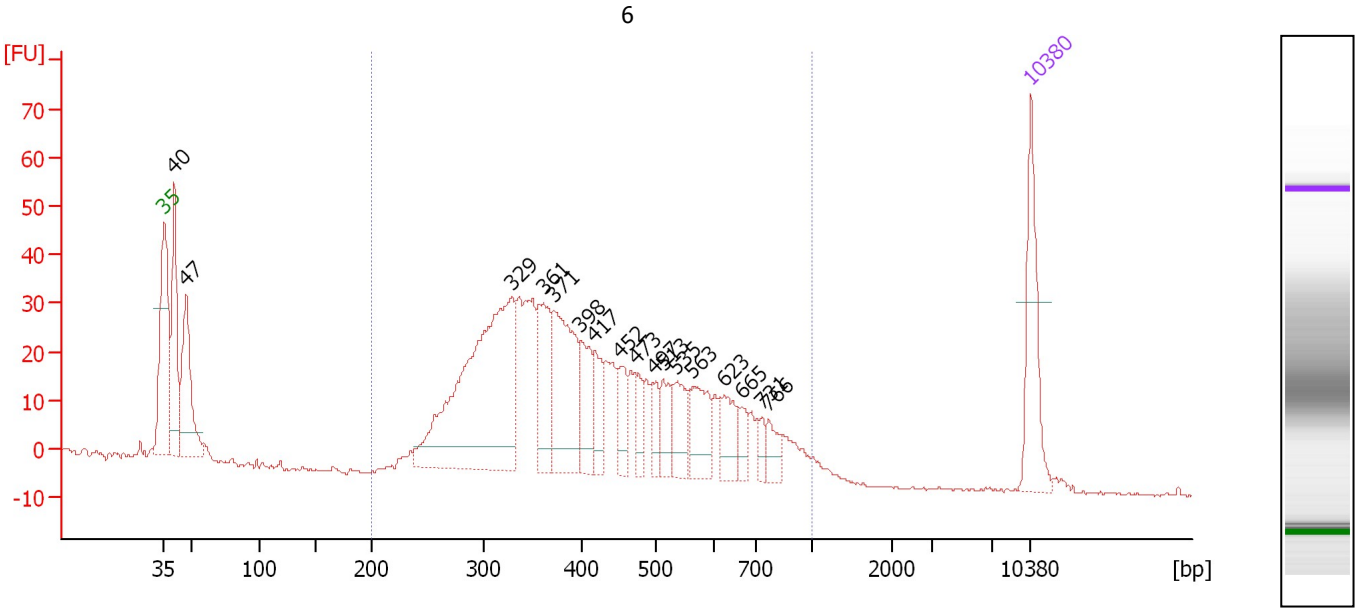
... Region table for sample 3 : WT1 1

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	366	1,506.8	16,381.5	3,682.14	87	23.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 6

Number of peaks found:	17	Corr. Area 1:	818.1
Noise:	0.3		

Peak table for sample 4 : 6

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	40	158.29	5,933.0		43.83
3	47	145.39	4,734.8		44.75
4	329	398.21	1,834.6		71.06
5	361	89.91	377.3		73.64
6	371	143.98	588.4		74.41
7	398	55.42	210.8		76.63
8	417	45.29	164.5		77.77
9	452	35.44	118.8		79.83
10	473	28.57	91.5		81.07
11	497	26.16	79.8		82.46
12	513	33.00	97.4		83.29
13	535	43.67	123.7		84.32
14	563	56.17	151.2		85.66
15	623	38.60	93.8		88.24
16	665	19.81	45.1		89.63
17	731	14.63	30.3		91.28
18	766	21.25	42.0		91.80
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : 6

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	437	818.1	5,173.8	1,312.23	85	33.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
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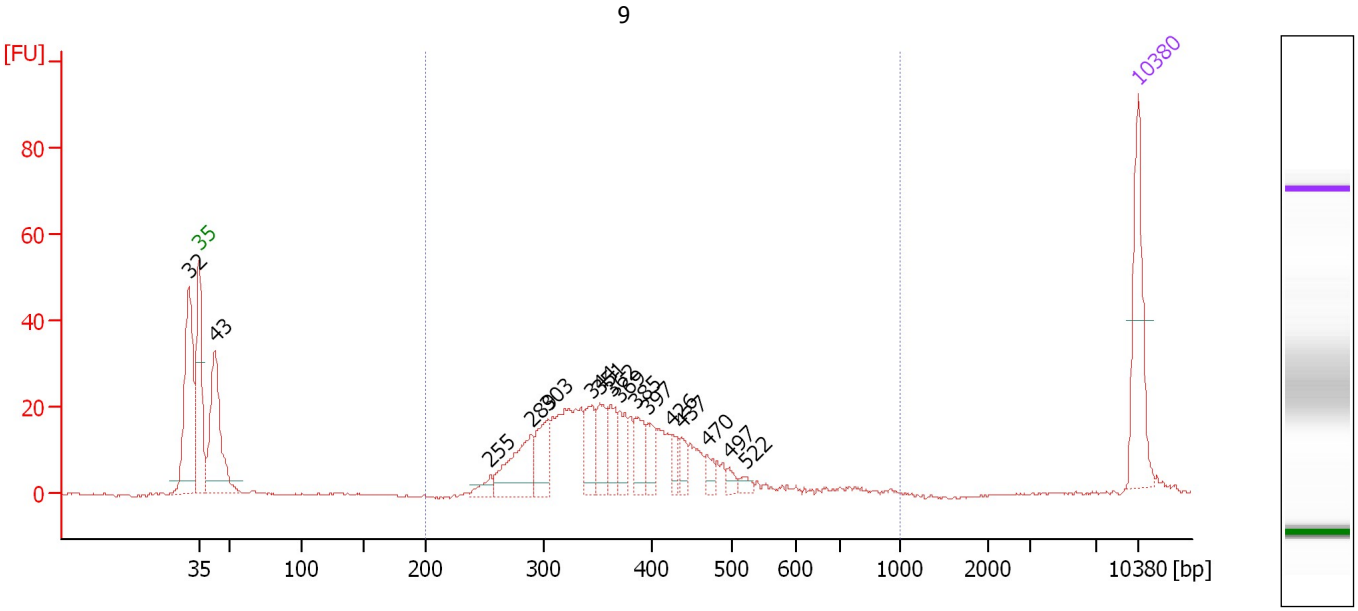
Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : 9

Height Threshold [FU] : 3

Overall Results for sample 5 : 9

Number of peaks found: 16
Noise: 0.2
Corr. Area 1: 398.4

Peak table for sample 5 : 9

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.28
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	187.77	6,642.3		44.19
4	255	15.37	91.3		64.73
5	289	83.07	435.8		67.75
6	303	49.74	248.4		69.02
7	344	46.20	203.7		72.24
8	351	42.17	182.0		72.84
9	362	34.29	143.6		73.71
10	369	33.12	135.9		74.31
11	385	35.70	140.6		75.54
12	397	25.27	96.5		76.49
13	426	14.97	53.3		78.28
14	437	13.62	47.3		78.91
15	470	12.74	41.1		80.86
16	497	8.68	26.5		82.49
17	522	7.39	21.4		83.72
18	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

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Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...

... Region table for sample 5 : 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	372	398.4	2,745.1	639.70	68	21.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

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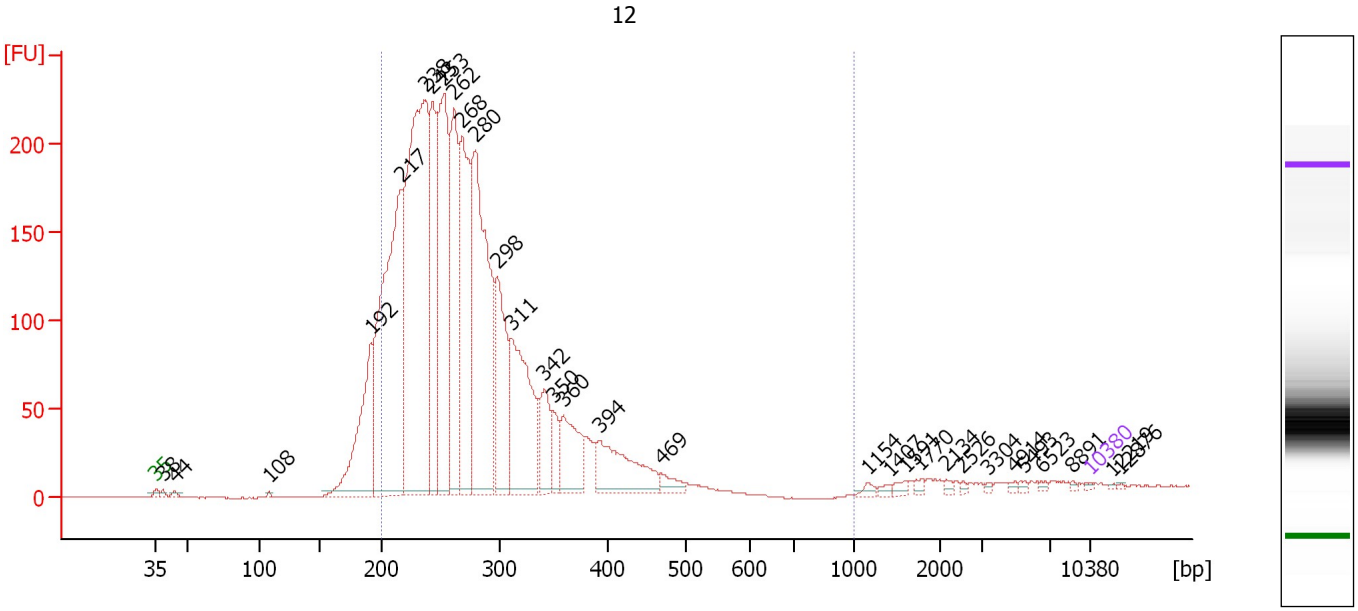
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : 12

Height Threshold [FU] : 3

Overall Results for sample 6 : 12

Number of peaks found: 31
Noise: 0.2
Corr. Area 1: 3,831.8

Peak table for sample 6 : 12

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	38	284.23	11,211.0		43.52
3	44	343.43	11,845.9		44.36
4	108	134.05	1,878.4		51.43
5	192	10,249.62	80,824.9		59.10
6	217	28,119.28	196,319.0		61.34
7	238	35,866.88	228,719.7		63.18
8	243	11,402.27	70,973.8		63.70
9	253	17,660.55	105,656.3		64.58
10	262	11,738.23	67,944.7		65.33
11	268	13,914.88	78,530.5		65.93
12	280	21,822.12	118,230.3		66.93
13	298	8,694.51	44,272.9		68.53
14	311	11,010.79	53,688.0		69.61
15	342	3,215.42	14,259.0		72.09
16	350	1,876.93	8,133.3		72.73
17	360	4,493.10	18,929.9		73.53
18	394	5,608.30	21,591.7		76.24
19	469	763.79	2,466.0		80.84
20	1,154	297.88	391.1		96.30
21	1,407	222.57	239.8		97.94
22	1,591	277.06	263.8		99.14

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 12

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
23	1,770	226.35	193.8		100.29
24	2,134	182.65	129.7		102.21
25	2,526	101.63	61.0		103.45
26	3,304	91.83	42.1		105.33
27	4,914	127.16	39.2		107.33
28	5,493	122.97	33.9		108.05
29	6,523	124.40	28.9		109.32
30	8,891	84.67	14.4		111.64
31	10,380	75.00	10.9	Upper Marker	113.00
32	12,219	0.00	0.0		114.68
33	12,876	0.00	0.0		115.28

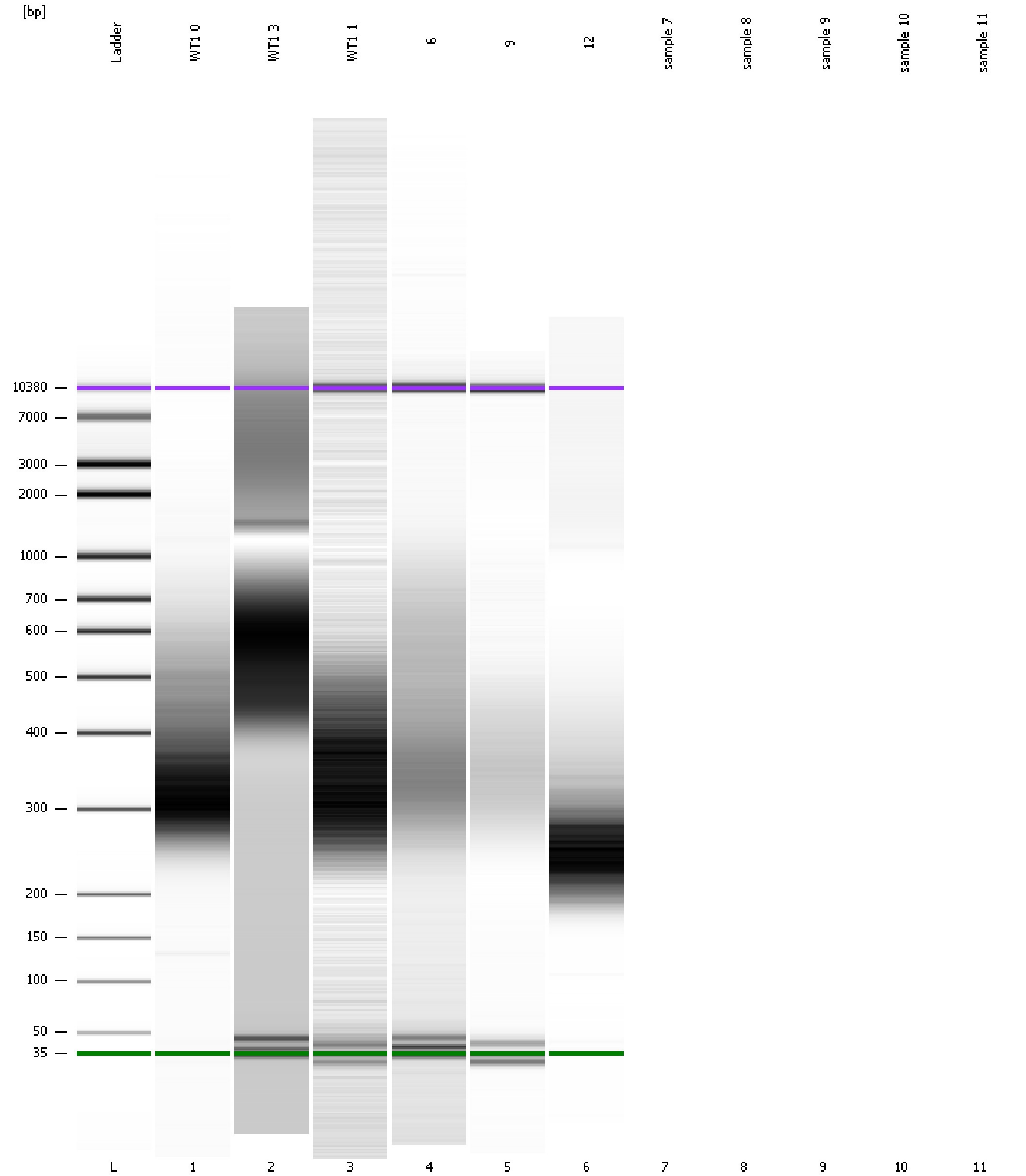
Region table for sample 6 : 12

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	275	3,831.8	990,309.6	172,588.67	91	20.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 6/1/2016 4:03:29 PM
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad Modified: 6/1/2016 4:35:38 PM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad

Created: 6/1/2016 4:03:29 PM
Modified: 6/1/2016 4:35:38 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		6/1/2016 4:30:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-01\2016-06-01_007.xad)		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/1/2016 4:03:29 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1