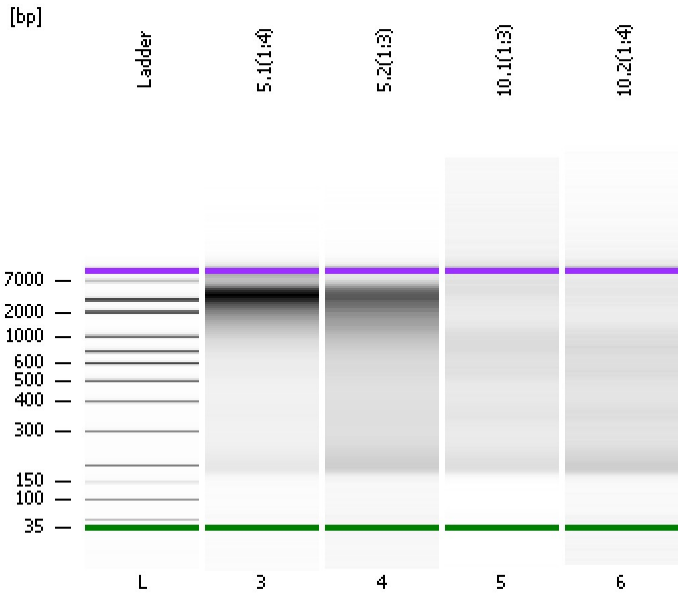


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
Modified: 10/8/2019 10:58:09 AM

Electrophoresis File Run Summary



Instrument Information:

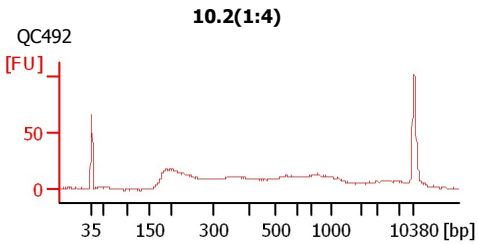
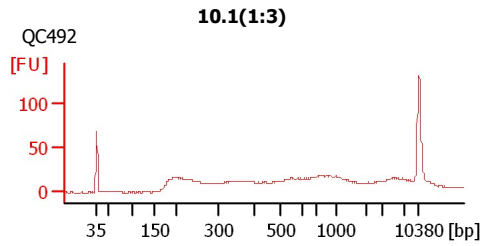
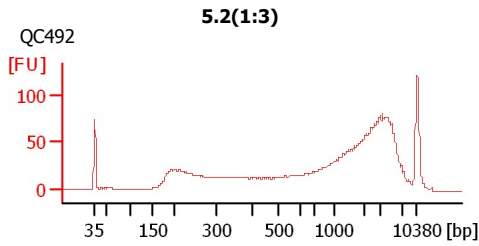
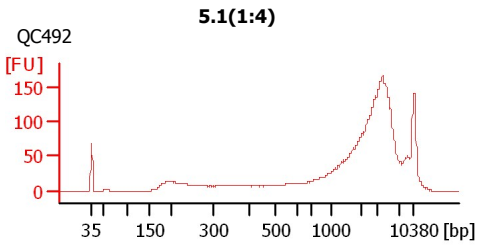
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
5.1(1:4)	QC492	<input type="checkbox"/>	✓			
5.2(1:3)	QC492	<input type="checkbox"/>	✓			
10.1(1:3)	QC492	<input type="checkbox"/>	✓			
10.2(1:4)	QC492	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
Modified: 10/8/2019 10:58:09 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

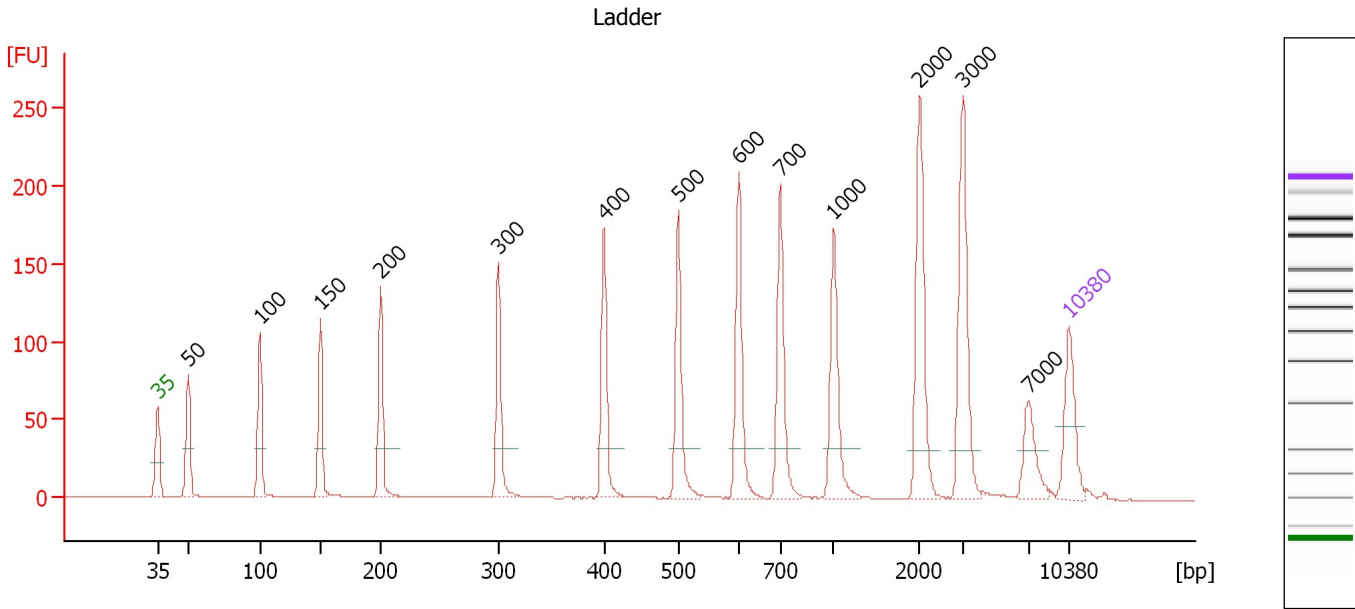
Ladder

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:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

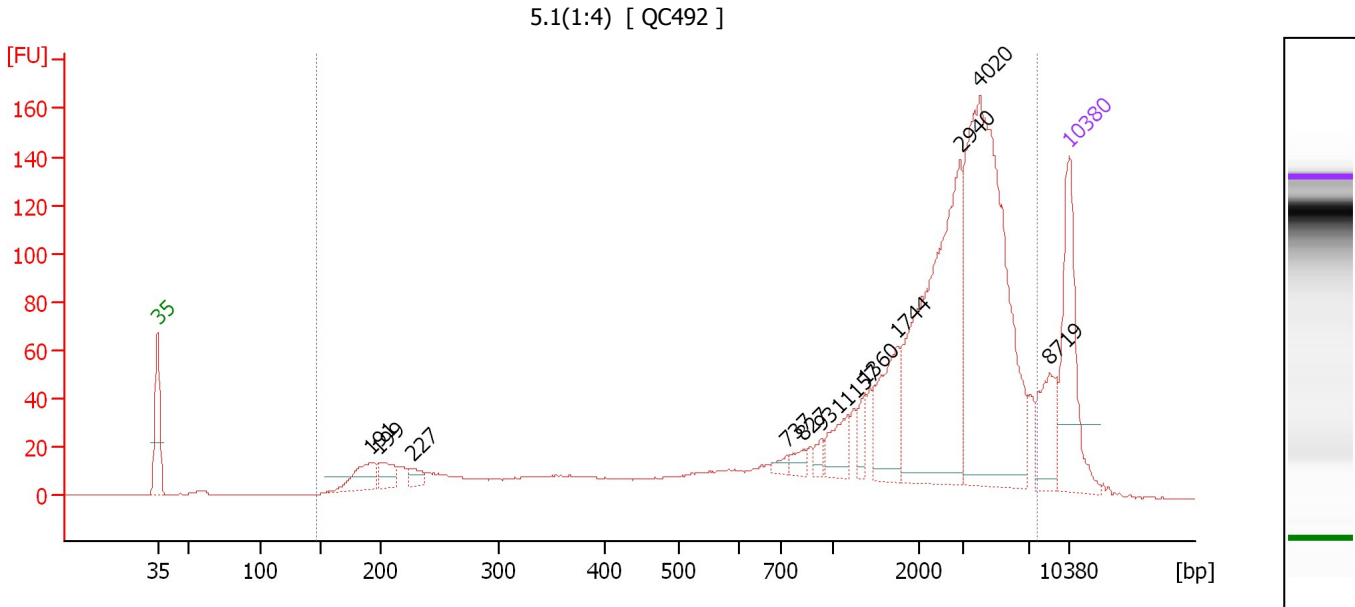
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.50
5	200	150.00	1,136.4	Ladder Peak	60.12
6	300	150.00	757.6	Ladder Peak	69.20
7	400	150.00	568.2	Ladder Peak	77.28
8	500	150.00	454.5	Ladder Peak	83.00
9	600	150.00	378.8	Ladder Peak	87.62
10	700	150.00	324.7	Ladder Peak	90.79
11	1,000	150.00	227.3	Ladder Peak	94.92
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.83
14	7,000	150.00	32.5	Ladder Peak	109.88
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 5.1(1:4)

Number of peaks found: 12 Corr. Area 1: 1,810.0
 Noise: 0.2

Peak table for sample 3 : 5.1(1:4)

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	191	35.54	281.7		59.30
3	199	20.06	152.6		60.04
4	227	11.30	75.4		62.57
5	737	6.13	12.6		91.30
6	827	8.13	14.9		92.54
7	931	7.17	11.7		93.98
8	1,157	25.64	33.6		95.96
9	1,360	12.21	13.6		97.30
10	1,744	57.06	49.6		99.82
11	2,940	214.55	110.6		104.63
12	4,020	283.23	106.8		106.11
13	8,719	36.29	6.3		111.46
14	10,380	75.00	10.9	Upper Marker	113.00

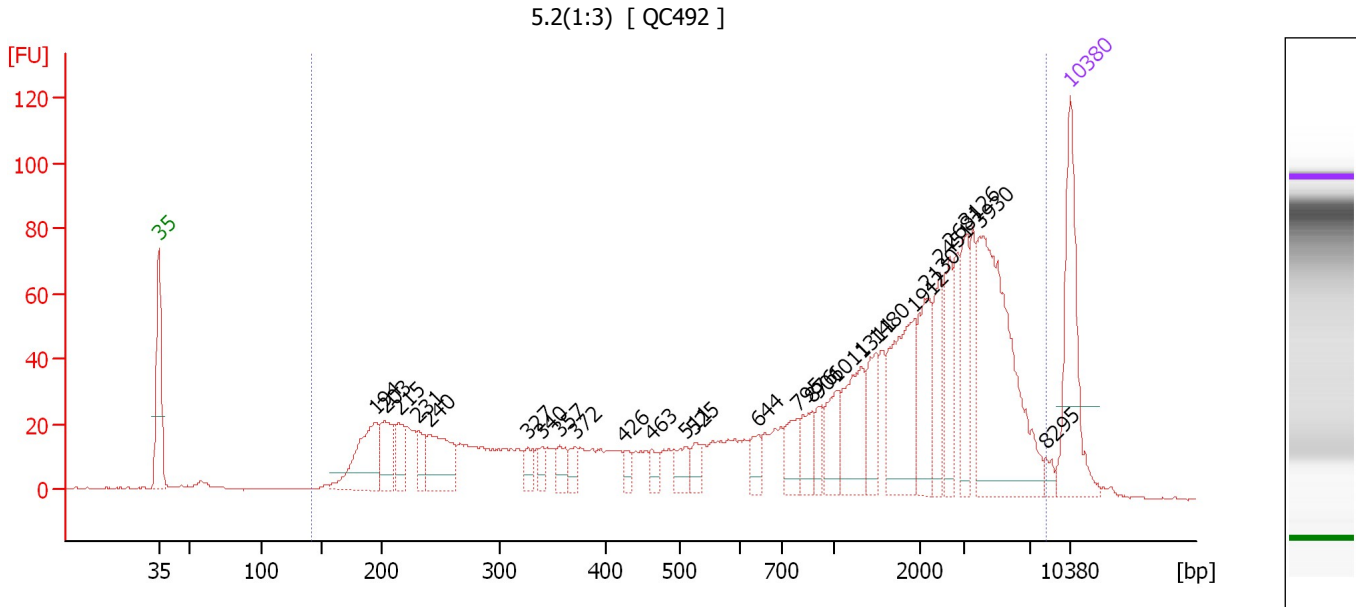
Region table for sample 3 : 5.1(1:4)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
146	7,751	2,655	1,089.20	1,810.0	2,310.9	95	69.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 5.2(1:3)

Number of peaks found: 27 Corr. Area 1: 1,636.5
 Noise: 0.3

Peak table for sample 4 : 5.2(1:3)

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	194	81.16	632.9		59.59
3	203	41.78	311.6		60.40
4	215	28.25	199.2		61.46
5	231	20.65	135.5		62.93
6	240	63.84	403.1		63.75
7	327	12.06	55.9		71.36
8	340	12.86	57.4		72.42
9	357	16.21	68.8		73.79
10	372	12.10	49.3		75.01
11	426	9.76	34.7		78.76
12	463	11.70	38.3		80.89
13	511	18.04	53.4		83.53
14	525	12.77	36.9		84.14
15	644	15.28	36.0		89.01
16	795	24.54	46.8		92.10
17	876	22.48	38.9		93.22
18	906	14.88	24.9		93.62
19	1,011	29.11	43.6		94.99
20	1,311	52.31	60.5		96.97
21	1,480	31.10	31.8		98.09
22	1,912	76.24	60.4		100.93
23	2,130	48.70	34.6		101.94
24	2,451	32.17	19.9		103.01
25	2,681	32.65	18.5		103.77

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : 5.2(1:3)

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,126	38.37	18.6		104.99
27	3,930	160.52	61.9		106.00
28	8,295	6.21	1.1		111.07
29	10,380	75.00	10.9	Upper Marker	113.00

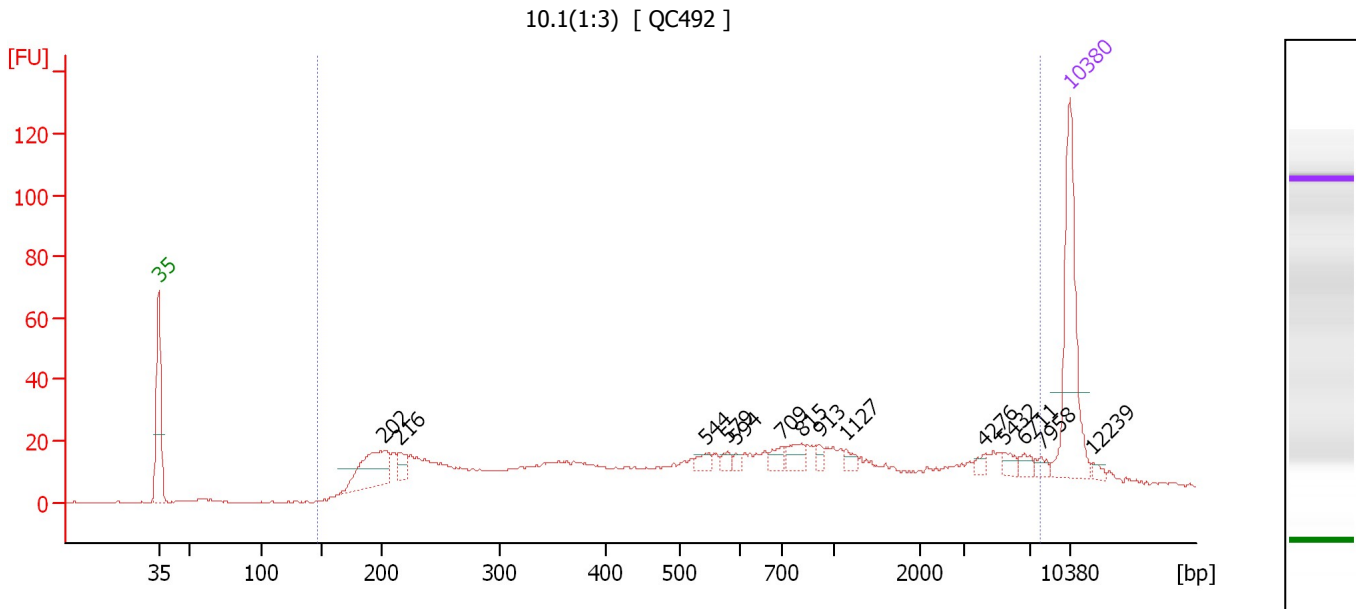
Region table for sample 4 : 5.2(1:3)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
143	8,413	1,971	1,377.41	1,636.5	4,210.8	97	92.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 10.1(1:3)

Number of peaks found: 14 Corr. Area 1: 781.2
 Noise: 0.3

Peak table for sample 5 : 10.1(1:3)

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	202	60.59	454.6		60.29
3	216	13.56	95.3		61.54
4	544	7.01	19.5		85.03
5	579	5.01	13.1		86.65
6	594	3.44	8.8		87.32
7	709	8.65	18.5		90.92
8	815	11.44	21.3		92.37
9	913	5.22	8.7		93.73
10	1,127	5.30	7.1		95.76
11	4,276	3.73	1.3		106.44
12	5,432	6.06	1.7		107.90
13	6,711	5.45	1.2		109.51
14	7,958	4.13	0.8		110.76
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,239	0.00	0.0		114.72

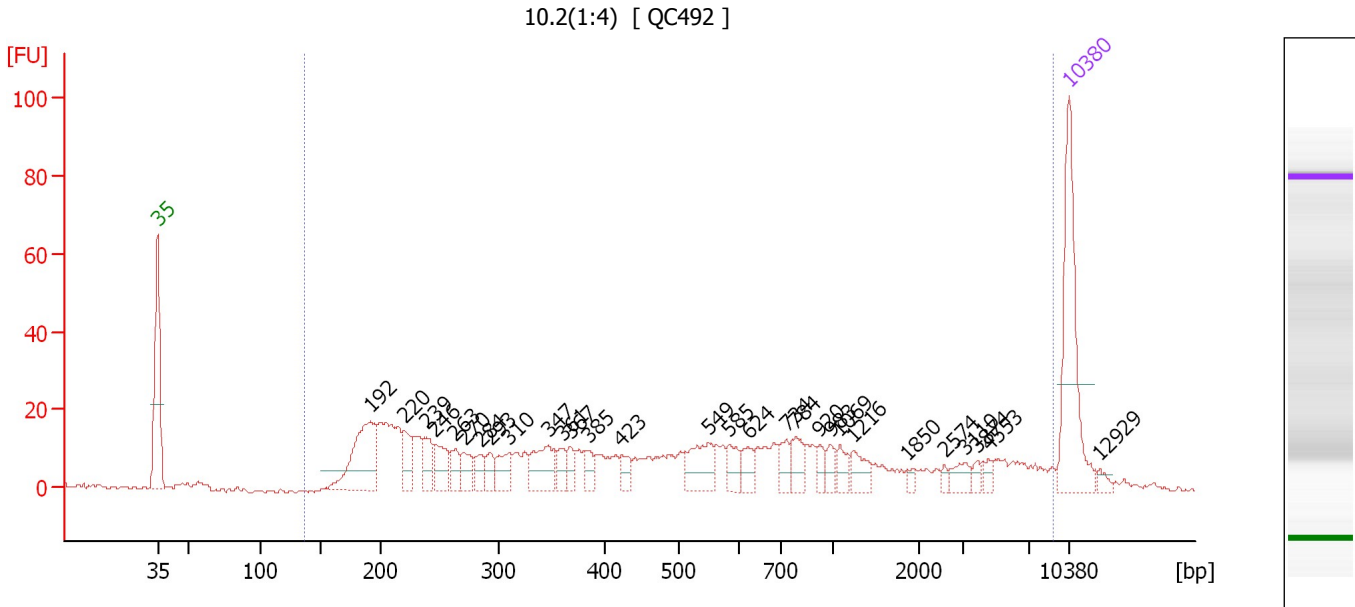
Region table for sample 5 : 10.1(1:3)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
147	7,949	1,238	756.15	781.2	3,026.2	92	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 10.2(1:4)

Number of peaks found: 29 Corr. Area 1: 679.6
Noise: 0.6

Peak table for sample 6 : 10.2(1:4)

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	192	82.14	649.7		59.34
3	220	23.75	163.8		61.91
4	239	21.64	137.1		63.67
5	246	25.37	156.1		64.32
6	263	13.66	78.6		65.87
7	270	17.06	95.6		66.51
8	284	13.33	71.1		67.74
9	293	12.41	64.2		68.55
10	310	19.55	95.6		69.99
11	347	32.35	141.3		72.99
12	361	11.71	49.2		74.12
13	367	11.65	48.0		74.65
14	385	12.70	50.0		76.05
15	423	10.55	37.8		78.62
16	549	31.55	87.1		85.26
17	585	14.20	36.8		86.92
18	624	12.26	29.8		88.36
19	734	13.11	27.1		91.26
20	784	15.72	30.4		91.95
21	920	8.19	13.5		93.83
22	983	8.42	13.0		94.68
23	1,069	9.36	13.3		95.38
24	1,216	13.91	17.3		96.34
25	1,850	3.71	3.0		100.52

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 10.2(1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,574	3.49	2.1		103.41
27	3,110	8.80	4.3		104.97
28	3,874	4.45	1.7		105.93
29	4,553	4.46	1.5		106.79
30	10,380	75.00	10.9	Upper Marker	113.00
31	12,929	0.00	0.0		115.36

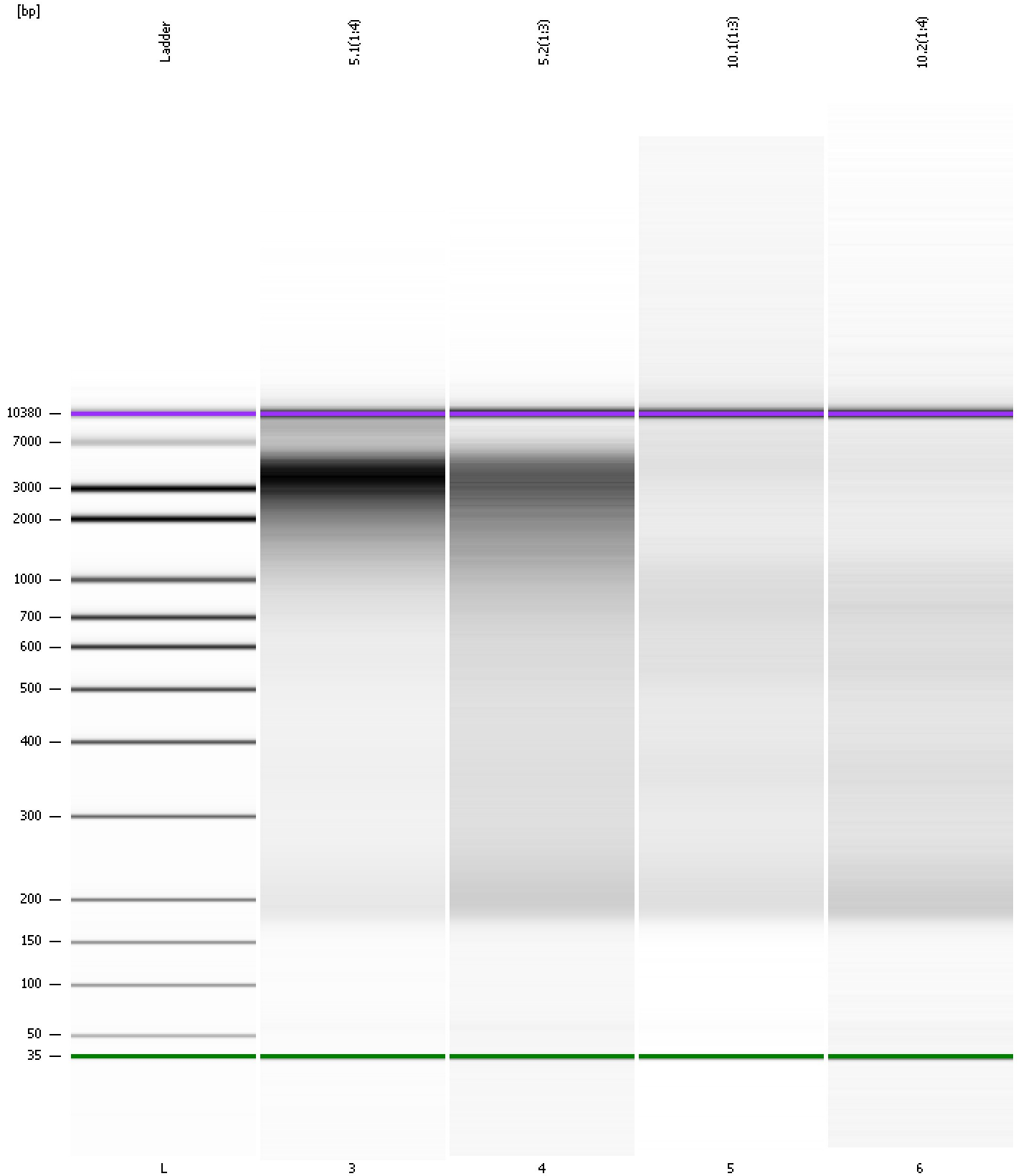
Region table for sample 6 : 10.2(1:4)

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
137	9,094	1,135	778.37	679.6	3,379.4	95	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
Modified: 10/8/2019 10:58:09 AM

Gel Image

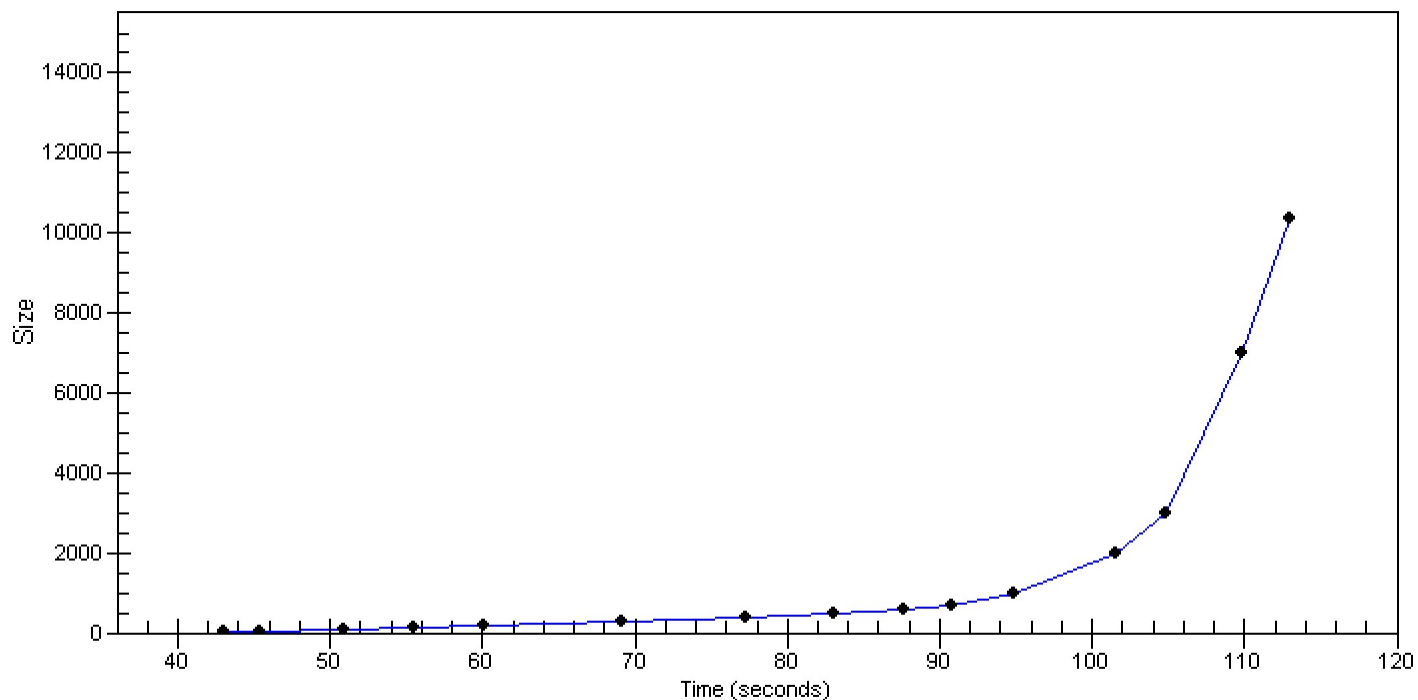


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
Modified: 10/8/2019 10:58:09 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...alyzer\2100 expert\data\2019-10-08\2019-10-08_001_QC492.xad

Created: 10/8/2019 10:04:50 AM
 Modified: 10/8/2019 10:58:09 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		10/8/2019 10:46:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-10-08\2019-10-08_001.xad)		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/8/2019 10:04:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1