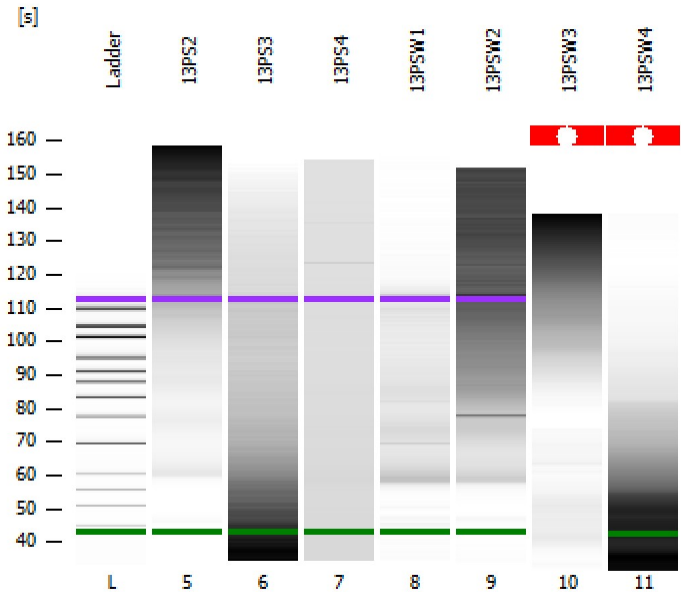


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
Modified: 11/18/2020 5:16:35 PM

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 (x86)\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

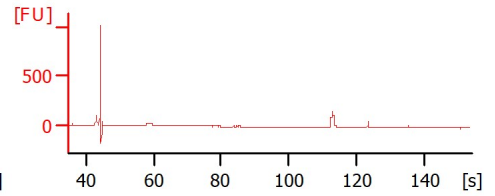
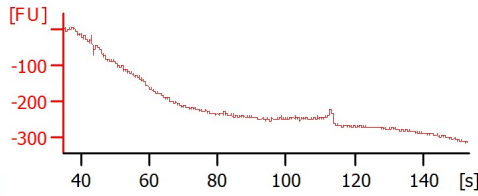
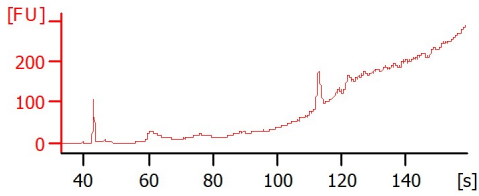
Chip Information:

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

13PS2

13PS3

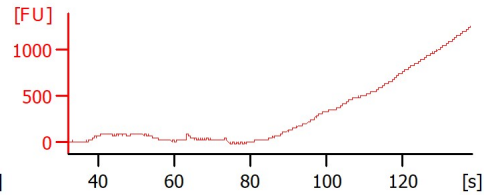
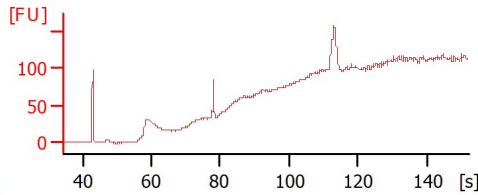
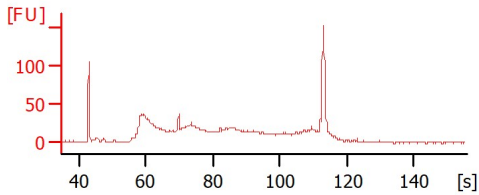
13PS4



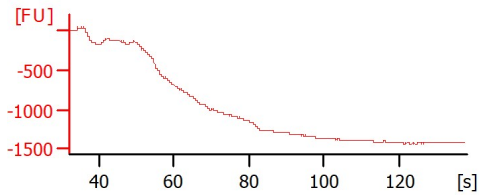
13PSW1

13PSW2

13PSW3



13PSW4



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
13PS2		<input type="checkbox"/>	✓			
13PS3		<input type="checkbox"/>	✓			
13PS4		<input type="checkbox"/>	✓			
13PSW1		<input type="checkbox"/>	✓			
13PSW2		<input type="checkbox"/>	✓			
13PSW3		<input type="checkbox"/>	✓			
13PSW4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 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

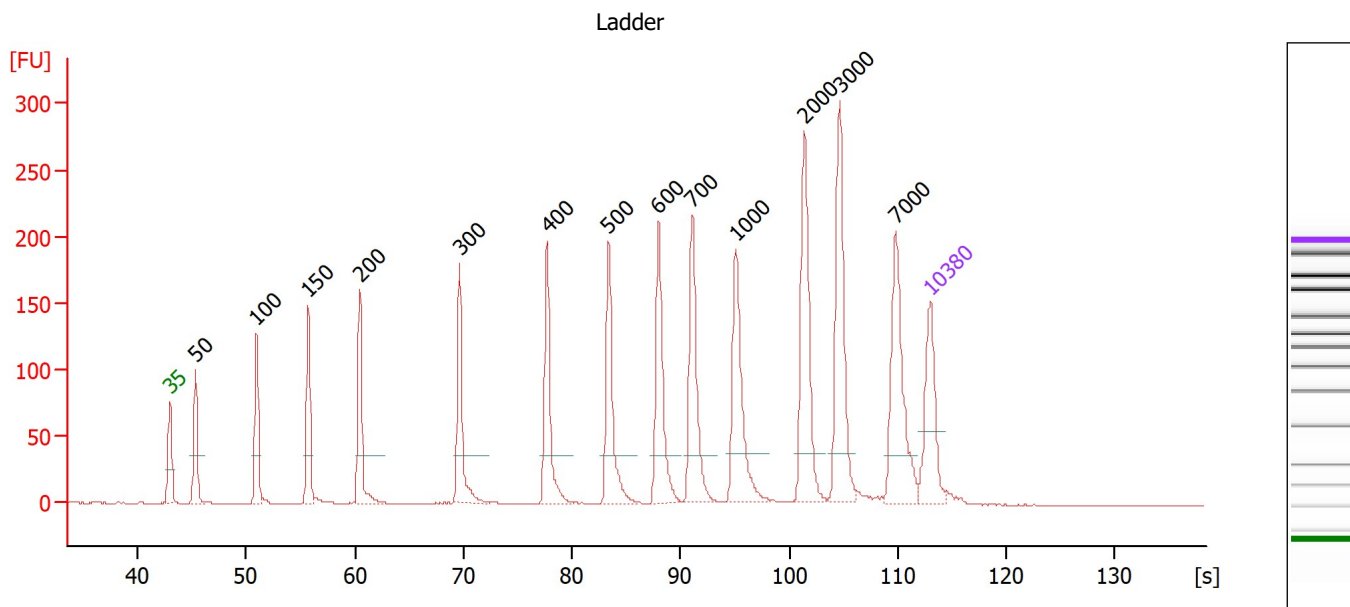
Ladder

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: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

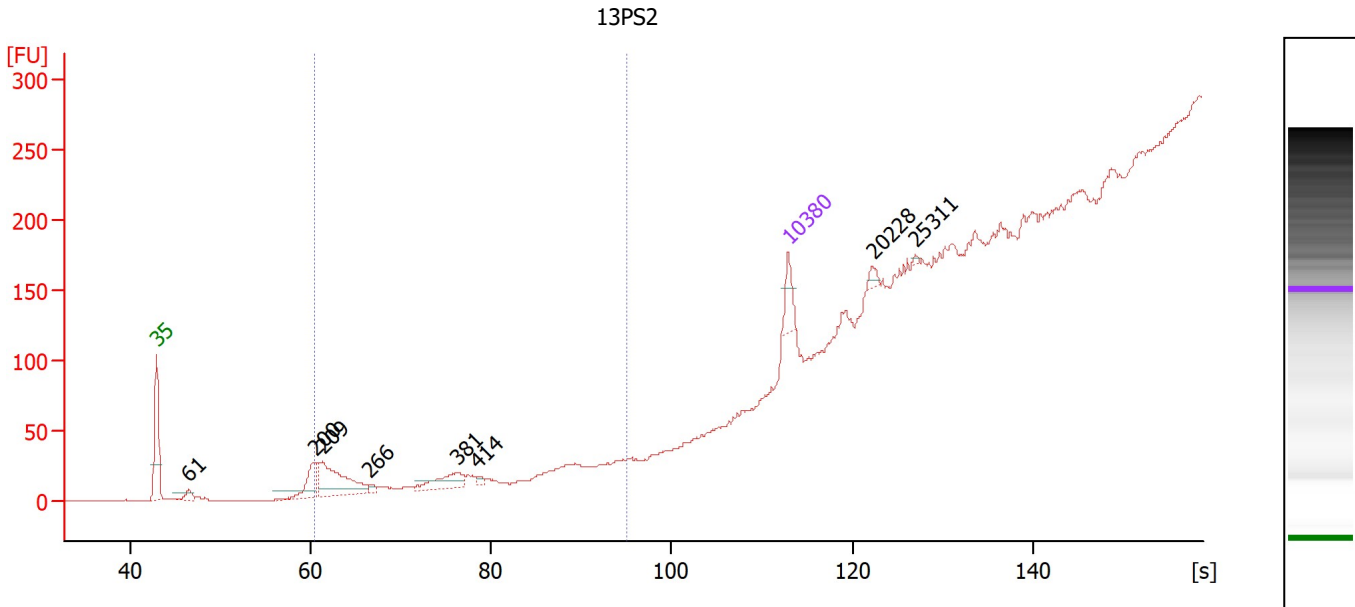
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 13PS2

Number of peaks found: 8 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 5 : 13PS2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	61	51.15	1,276.8	
3	200	166.30	1,261.5	
4	209	365.69	2,645.6	
5	266	18.64	106.0	
6	381	121.43	482.7	
7	414	18.35	67.1	
8	10,380	75.00	10.9	Upper Marker
9	20,228	0.00	0.0	
10	25,311	0.00	0.0	

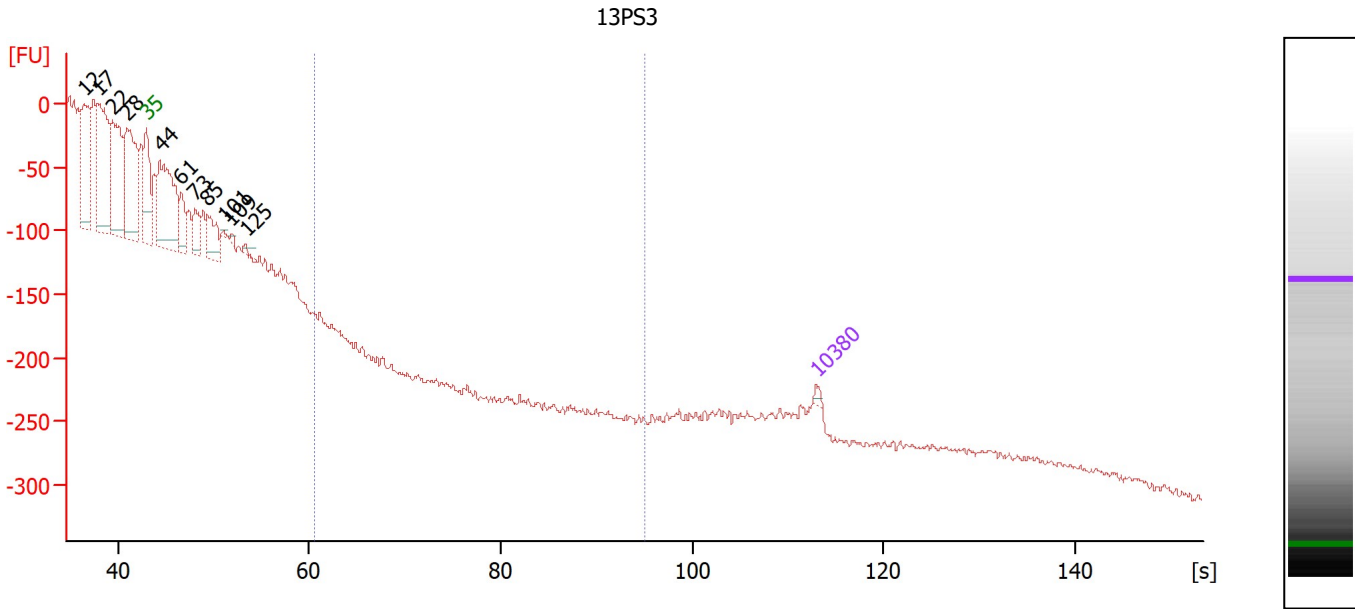
Region table for sample 5 : 13PS2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 13PS3

Number of peaks found: 11 Corr. Area 1: 0.0
 Noise: 2.7

Peak table for sample 6 : 13PS3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	12	0.00	0.0	
2	17	0.00	0.0	
3	22	0.00	0.0	
4	28	0.00	0.0	
5	35	125.00	5,411.3	Lower Marker
6	44	4,690.77	163,373.8	
7	61	1,007.45	25,078.6	
8	73	866.39	17,882.6	
9	85	1,268.24	22,488.7	
10	101	61.76	925.0	
11	109	92.11	1,283.2	
12	125	90.91	1,100.9	
13	10,380	75.00	10.9	Upper Marker

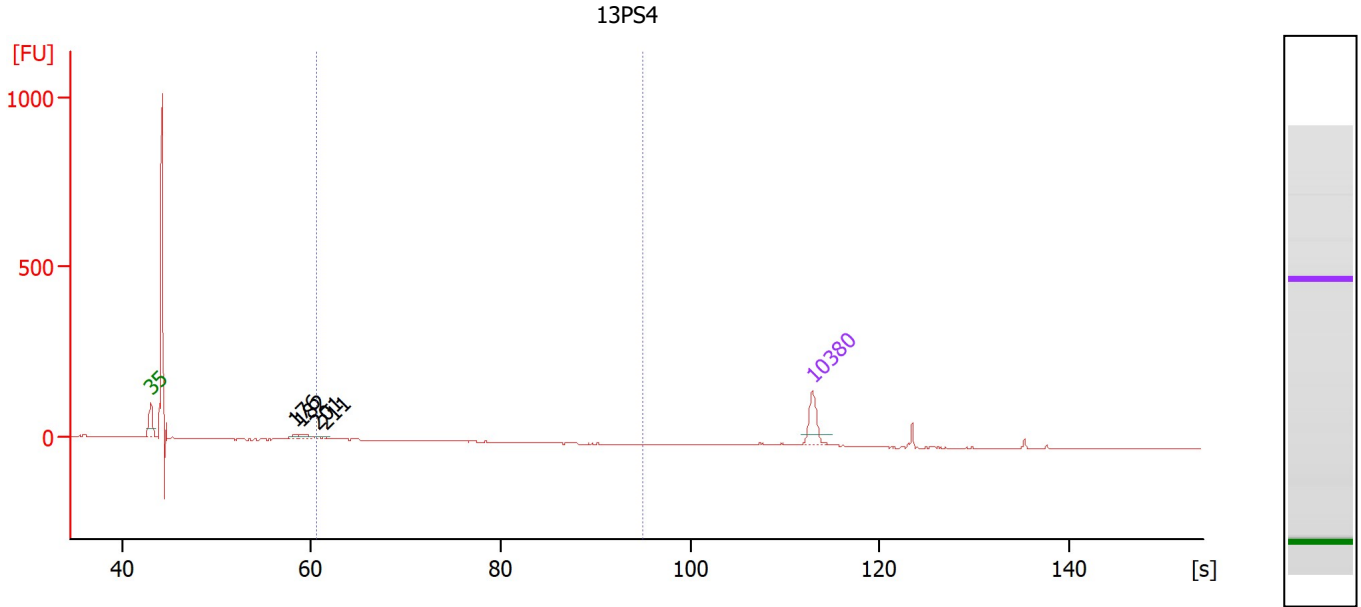
Region table for sample 6 : 13PS3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.0	0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 13PS4

Number of peaks found: 4 Corr. Area 1: 10.3
 Noise: 1.4

Peak table for sample 7 : 13PS4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	176	14.36	123.3	
3	182	26.26	218.0	
4	201	6.81	51.5	
5	211	5.41	38.9	
6	10,380	75.00	10.9	Upper Marker

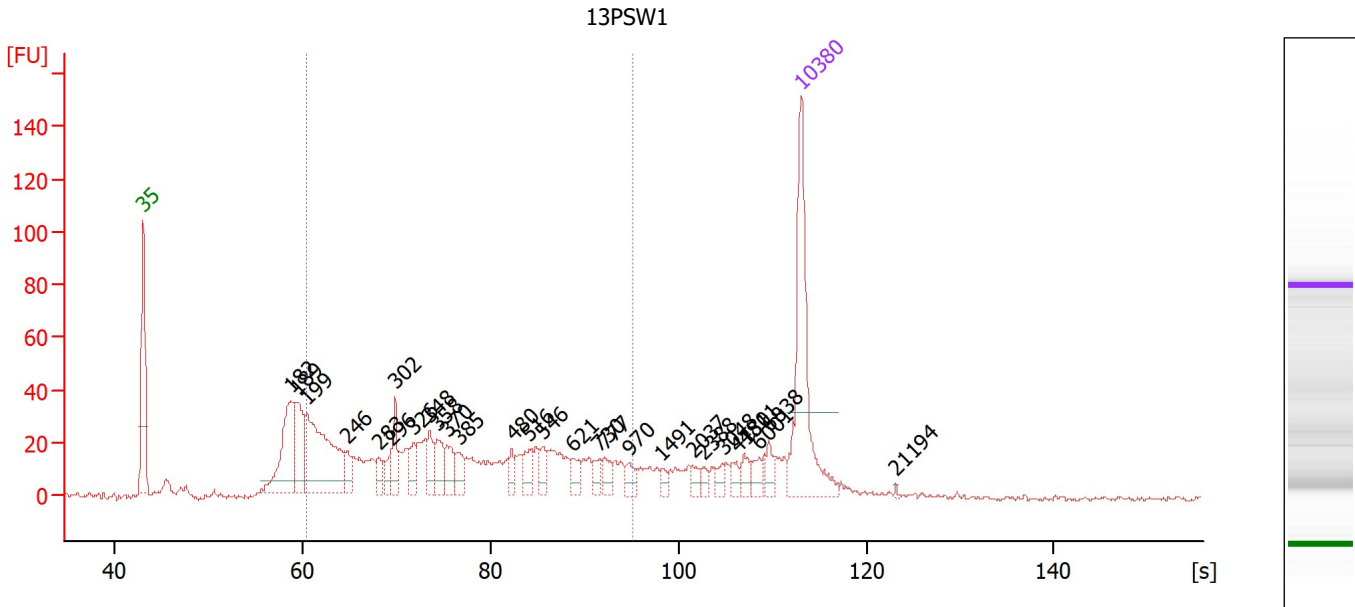
Region table for sample 7 : 13PS4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,000	10.3	2	210	9.0	10.37	75.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 13PSW1

Number of peaks found: 28 Corr. Area 1: 731.0
 Noise: 1.0

Peak table for sample 8 : 13PSW1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	182	73.54	613.4	
3	189	42.71	342.5	
4	199	111.12	844.7	
5	246	12.45	76.7	
6	283	10.27	55.0	
7	296	9.85	50.4	
8	302	17.54	87.9	
9	326	15.06	69.9	
10	348	15.67	68.3	
11	358	17.75	75.1	
12	370	15.41	63.0	
13	385	12.97	51.0	
14	480	8.76	27.7	
15	516	12.35	36.3	
16	546	9.95	27.6	
17	621	7.67	18.7	
18	730	7.02	14.6	
19	777	9.02	17.6	
20	970	7.42	11.6	
21	1,491	3.77	3.8	
22	2,037	4.32	3.2	
23	2,388	4.09	2.6	
24	3,048	5.01	2.5	
25	4,150	5.28	1.9	
26	4,811	7.17	2.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 13PSW1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,001	6.24	1.6	
28	6,838	7.61	1.7	
29	10,380	75.00	10.9	Upper Marker
30	21,194	0.00	0.0	

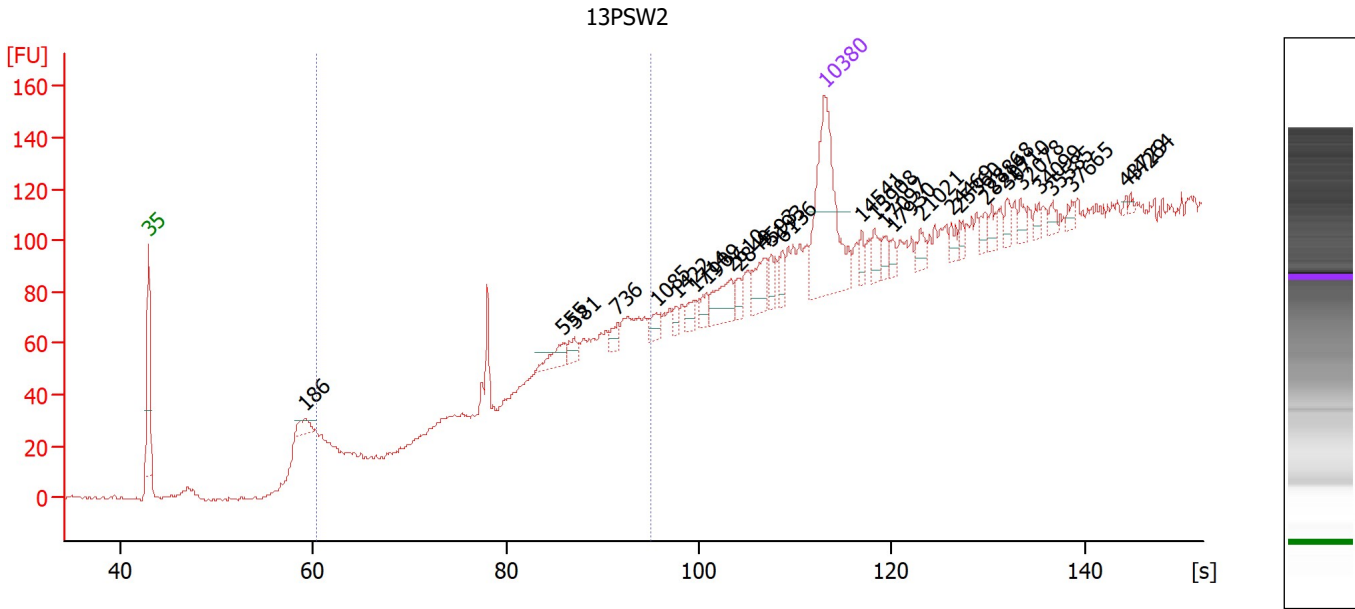
Region table for sample 8 : 13PSW1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	731.0	66	427	43.6	472.01	2,129.7	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 13PSW2

Number of peaks found: 29 Corr. Area 1: 133.1
 Noise: 0.6

Peak table for sample 9 : 13PSW2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	186	12.69	103.4	
3	555	12.56	34.3	
4	581	7.65	19.9	
5	736	6.96	14.3	
6	1,085	7.84	10.9	
7	1,422	4.29	4.6	
8	1,714	5.84	5.2	
9	1,909	6.12	4.9	
10	2,610	17.67	10.3	
11	2,849	5.82	3.1	
12	4,593	16.68	5.5	
13	5,193	6.98	2.0	
14	6,136	6.92	1.7	
15	10,380	75.00	10.9	Upper Marker
16	14,541	0.00	0.0	
17	15,908	0.00	0.0	
18	17,097	0.00	0.0	
19	17,930	0.00	0.0	
20	21,021	0.00	0.0	
21	24,469	0.00	0.0	
22	25,360	0.00	0.0	
23	28,214	0.00	0.0	
24	28,868	0.00	0.0	
25	30,710	0.00	0.0	
26	32,078	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : 13PSW2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	34,099	0.00	0.0	
28	35,585	0.00	0.0	
29	37,665	0.00	0.0	
30	43,729	0.00	0.0	
31	44,264	0.00	0.0	

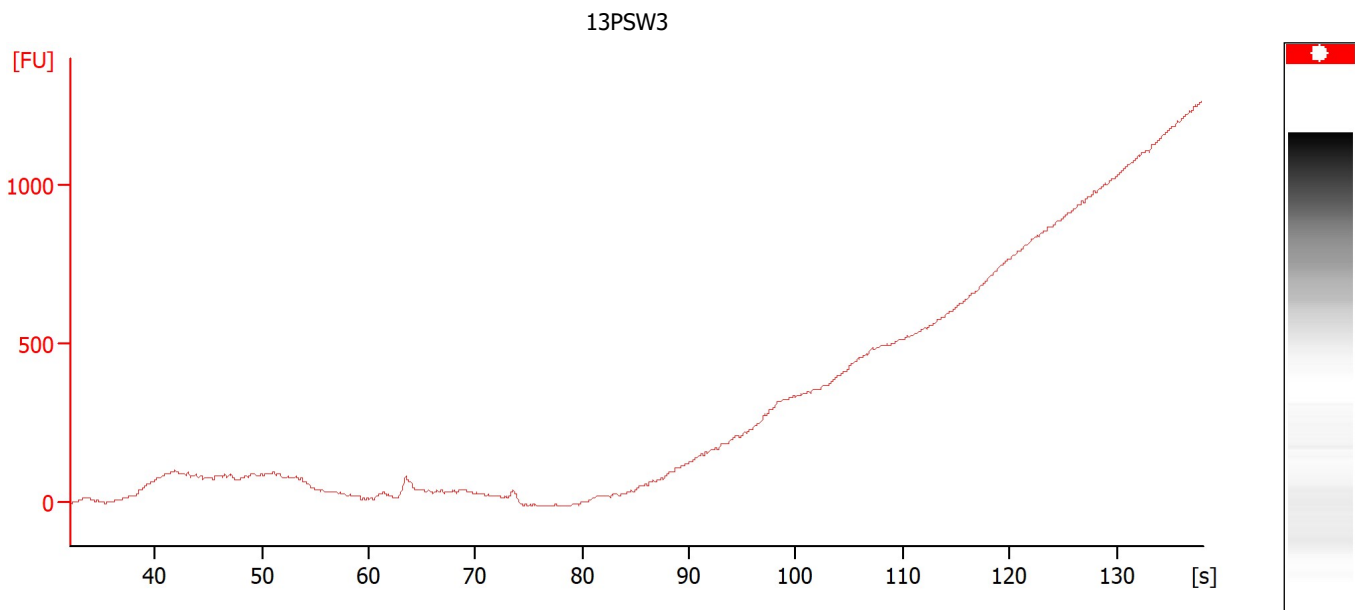
Region table for sample 9 : 13PSW2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	133.1	19	672	23.8	85.28	207.4	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 13PSW3

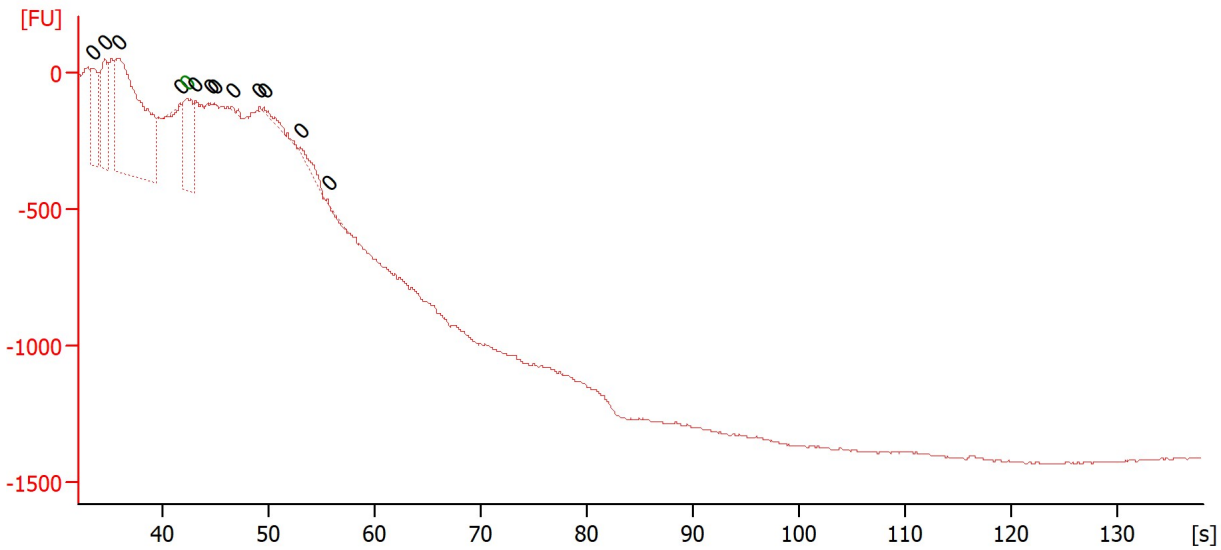
Noise: 3.5

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

Electropherogram Summary Continued ...

13PSW4



Overall Results for sample 11 : 13PSW4

Number of peaks found: 12 Noise: 3.5

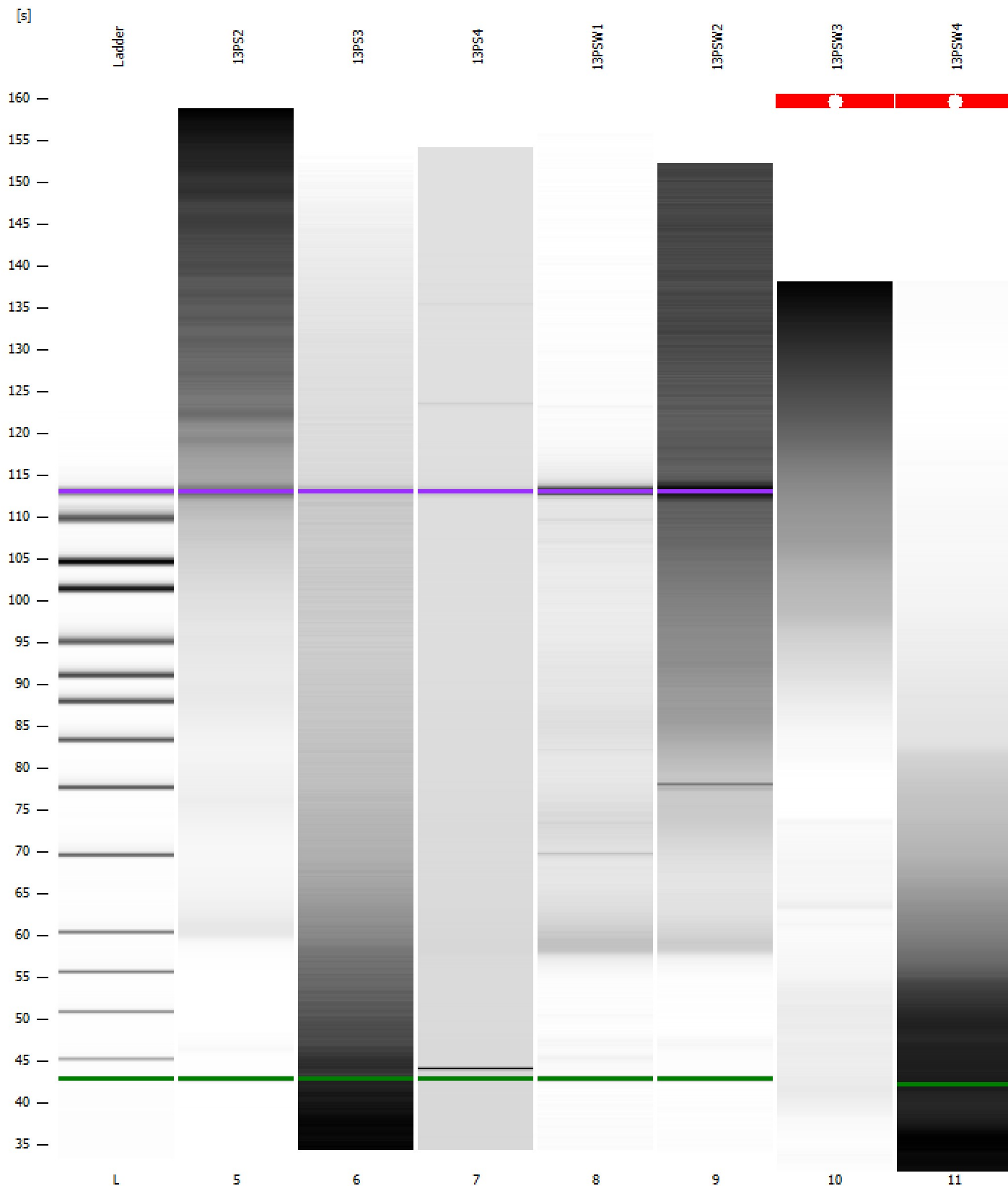
Peak table for sample 11 : 13PSW4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	Lower Marker
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
Modified: 11/18/2020 5:16:35 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...alyzer1_High Sensitivity DNA Assay_2020-11-18_001_QC758.xad

Created: 11/18/2020 4:31:21 PM
 Modified: 11/18/2020 5:16:35 PM

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		11/18/2020 5:12:38 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-11-18\Bioanalyzer1_High Sensitivity DNA Assay_2020-11-18_001.xad)		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		11/18/2020 4:31:26 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB