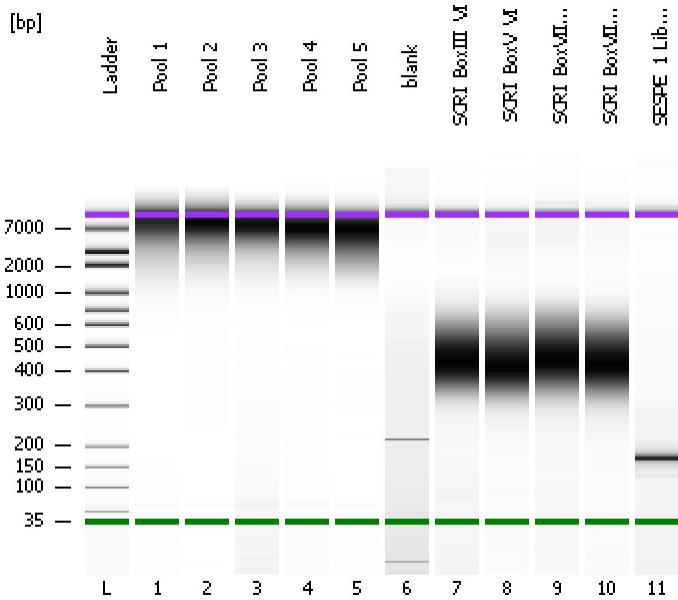


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

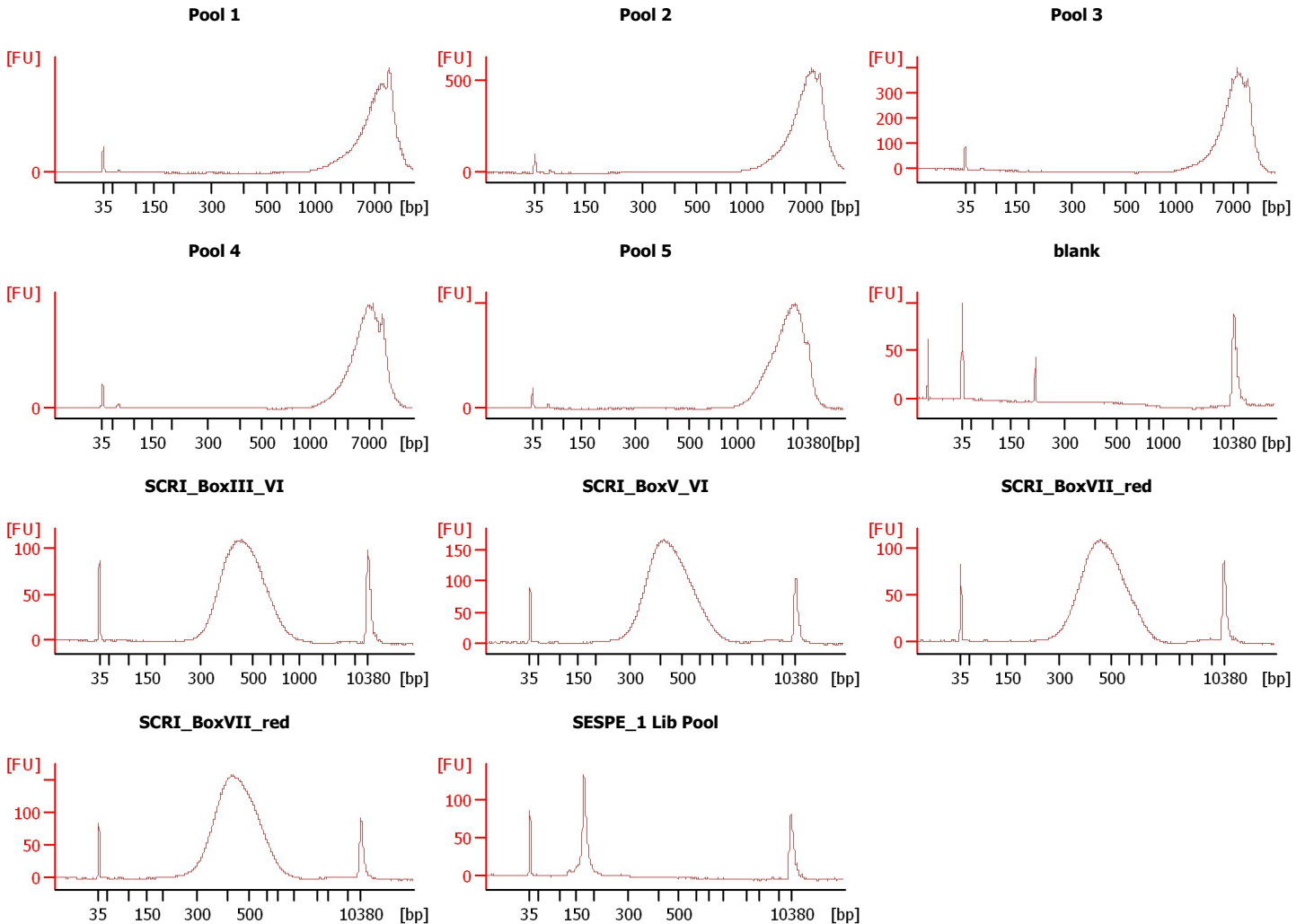
Electrophoresis File Run Summary



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

Assay Information:
 Assay Origin Path: C:\Program Files\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:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Pool 1		<input type="checkbox"/>	✓			
Pool 2		<input type="checkbox"/>	✓			
Pool 3		<input type="checkbox"/>	✓			
Pool 4		<input type="checkbox"/>	✓			
Pool 5		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
SCRI_BoxIII_VI		<input type="checkbox"/>	✓			
SCRI_BoxV_VI		<input type="checkbox"/>	✓			
SCRI_BoxVII_red		<input type="checkbox"/>	✓			
SCRI_BoxVII_red		<input type="checkbox"/>	✓			
SESPE_1 Lib Pool		<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\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
Modified: 4/17/2019 1:26:45 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

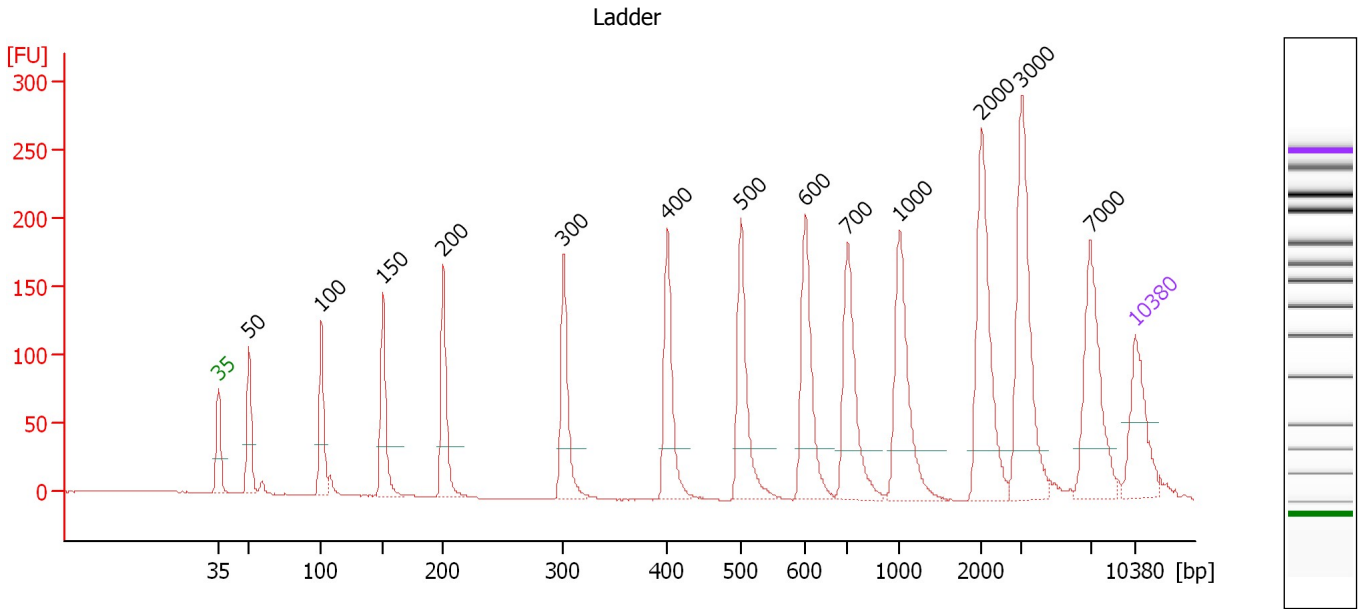
Ladder

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\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.4

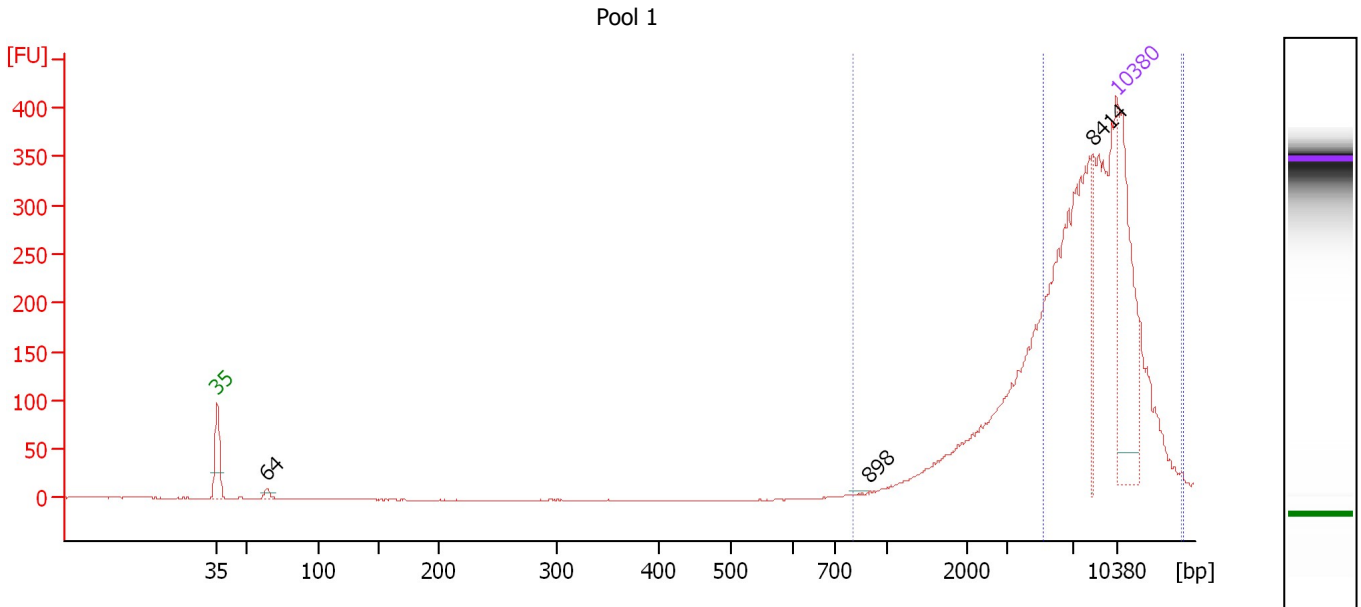
Peak table for Ladder

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	50.86
4	150	150.00	1,515.2	Ladder Peak	55.54
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.35
7	400	150.00	568.2	Ladder Peak	77.29
8	500	150.00	454.5	Ladder Peak	82.91
9	600	150.00	378.8	Ladder Peak	87.79
10	700	150.00	324.7	Ladder Peak	91.05
11	1,000	150.00	227.3	Ladder Peak	95.04
12	2,000	150.00	113.6	Ladder Peak	101.31
13	3,000	150.00	75.8	Ladder Peak	104.37
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Pool 1

Number of peaks found: 3 Corr. Area 1: 2,488.2
 Noise: 0.4 Corr. Area 2: 1,804.1

Peak table for sample 1 : Pool 1

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	64	4.20	99.6		46.85
3	898	0.46	0.8		93.69
4	8,414	7.49	1.3		111.01
5	10,380	75.00	10.9	Upper Marker	113.00

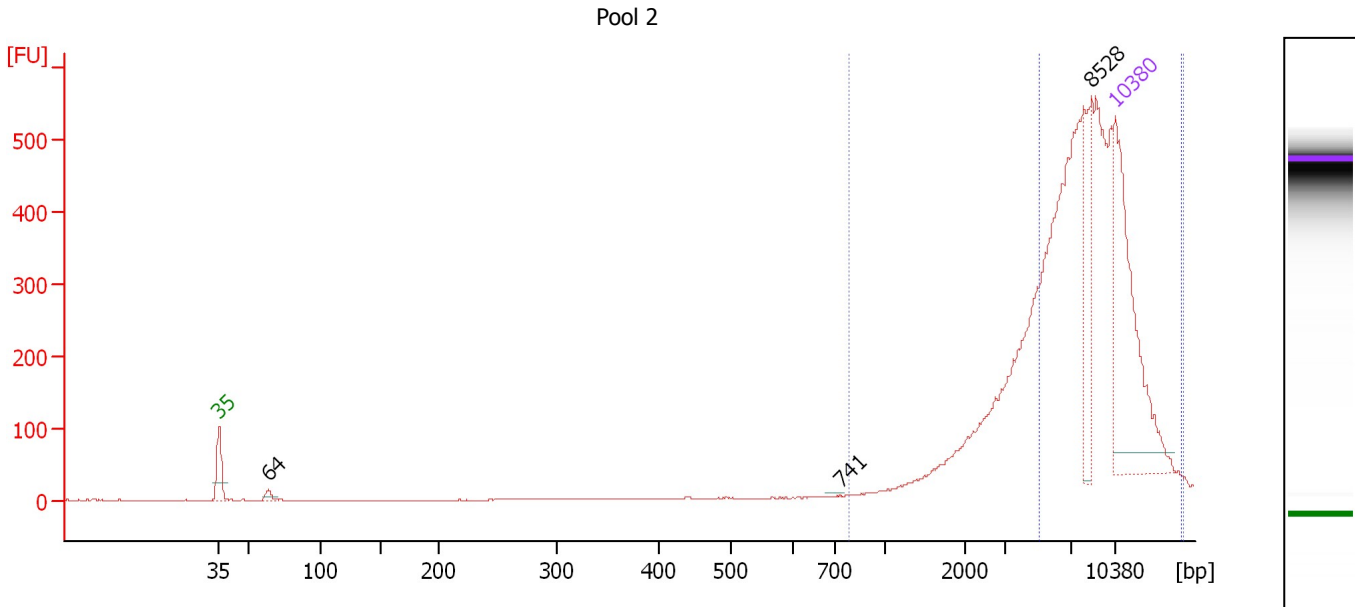
Region table for sample 1 : Pool 1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
796	15,197	7,648	531.28	2,488.2	141.0	100	40.5
5,108	15,327	8,904	404.52	1,804.1	73.5	72	24.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Pool 2

Number of peaks found: 3 Corr. Area 1: 3,363.6
 Noise: 0.4 Corr. Area 2: 2,425.6

Peak table for sample 2 : Pool 2

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	64	3.52	83.9		46.83
3	741	0.04	0.1		91.60
4	8,528	28.22	5.0		111.13
5	10,380	75.00	10.9	Upper Marker	113.00

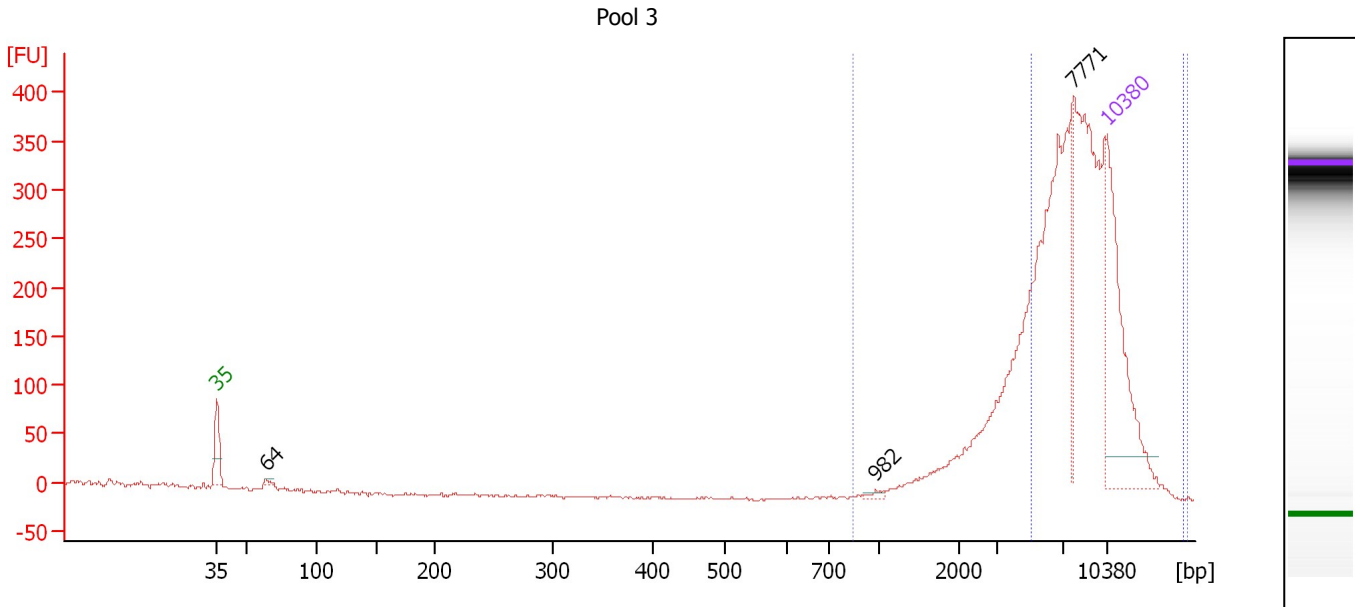
Region table for sample 2 : Pool 2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
782	15,575	7,591	314.69	3,363.6	90.7	100	39.3
5,010	15,404	8,706	226.86	2,425.6	46.2	72	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Pool 3

Number of peaks found:	3	Corr. Area 1:	2,525.8
Noise:	1.2	Corr. Area 2:	1,865.3

Peak table for sample 3 : Pool 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	64	1.73	41.0		46.86
3	982	1.74	2.7		94.81
4	7,771	7.24	1.4		110.36
5	10,380	75.00	10.9	Upper Marker	113.00

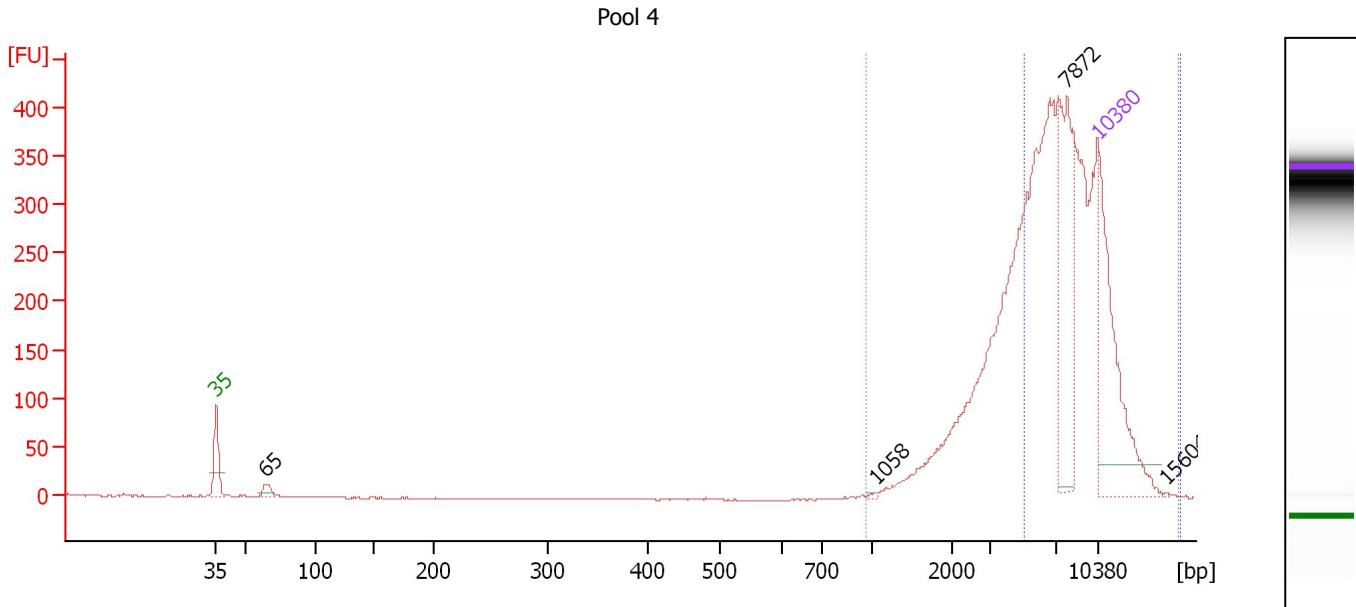
Region table for sample 3 : Pool 3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
841	16,593	7,415	392.15	2,525.8	112.7	100	38.5
4,986	16,211	8,467	289.40	1,865.3	59.3	74	25.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Pool 4

Number of peaks found:	4	Corr. Area 1:	3,131.8
Noise:	0.5	Corr. Area 2:	2,048.4

Peak table for sample 4 : Pool 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	65	8.19	191.1		46.98
3	1,058	0.79	1.1		95.40
4	7,872	73.90	14.2		110.46
5	10,380	75.00	10.9	Upper Marker	113.00
6	15,604	0.00	0.0		118.29

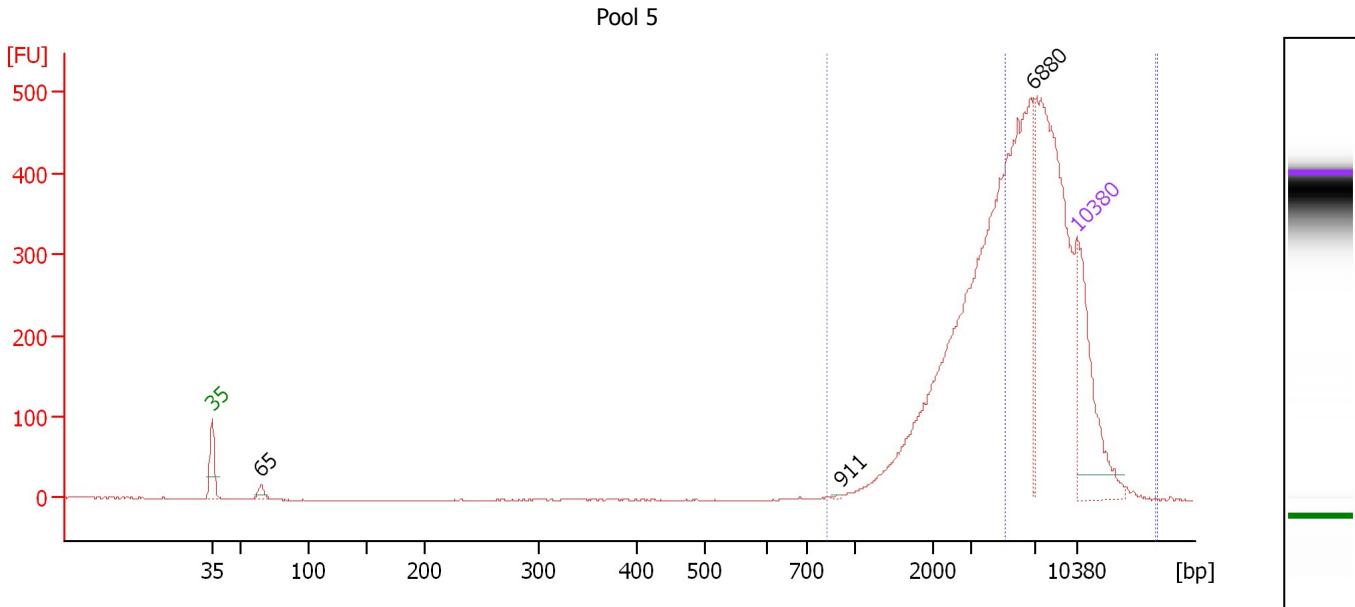
Region table for sample 4 : Pool 4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
966	16,581	6,889	588.23	3,131.8	173.3	99	43.6
5,047	16,707	8,331	410.70	2,048.4	79.8	65	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Pool 5

Number of peaks found: 3 Corr. Area 1: 4,329.9
 Noise: 0.5 Corr. Area 2: 2,413.8

Peak table for sample 5 : Pool 5

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	65	7.83	182.9		46.97
3	911	1.10	1.8		93.86
4	6,880	11.99	2.6		109.42
5	10,380	75.00	10.9	Upper Marker	113.00

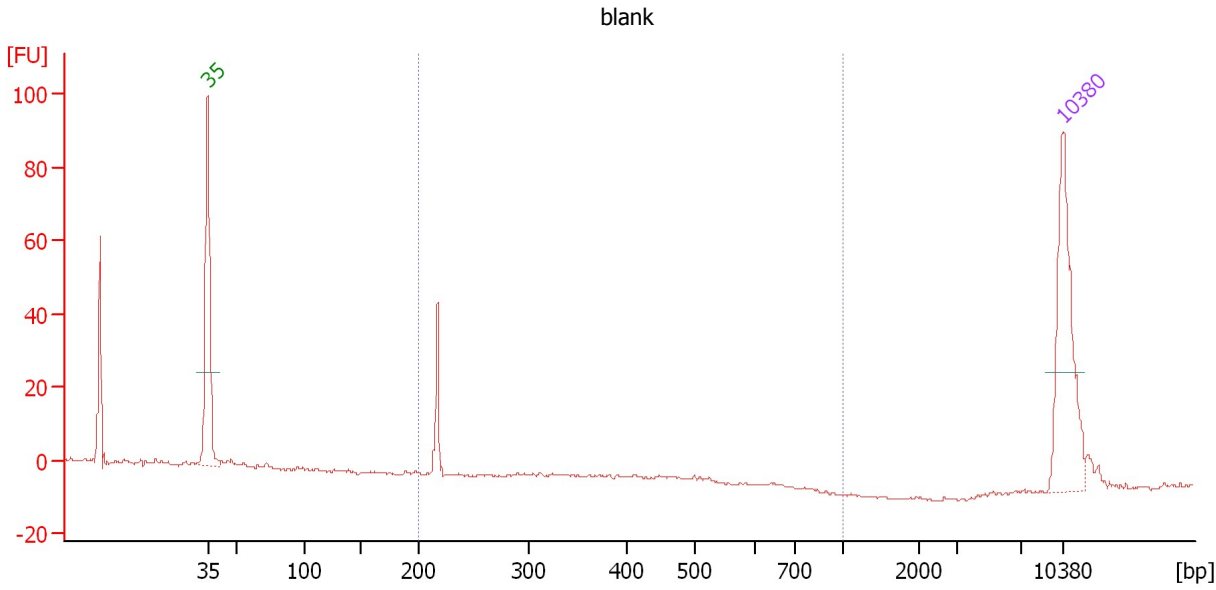
Region table for sample 5 : Pool 5

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
824	16,577	6,118	926.10	4,329.9	322.8	99	48.5
5,082	16,670	8,027	549.07	2,413.8	110.0	55	25.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : blank

Height Threshold [FU] : 70

Overall Results for sample 6 : blank

Number of peaks found: 0 Corr. Area 1: 19.0
 Noise: 0.4

Peak table for sample 6 : blank

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	10,380	75.00	10.9	Upper Marker	113.00

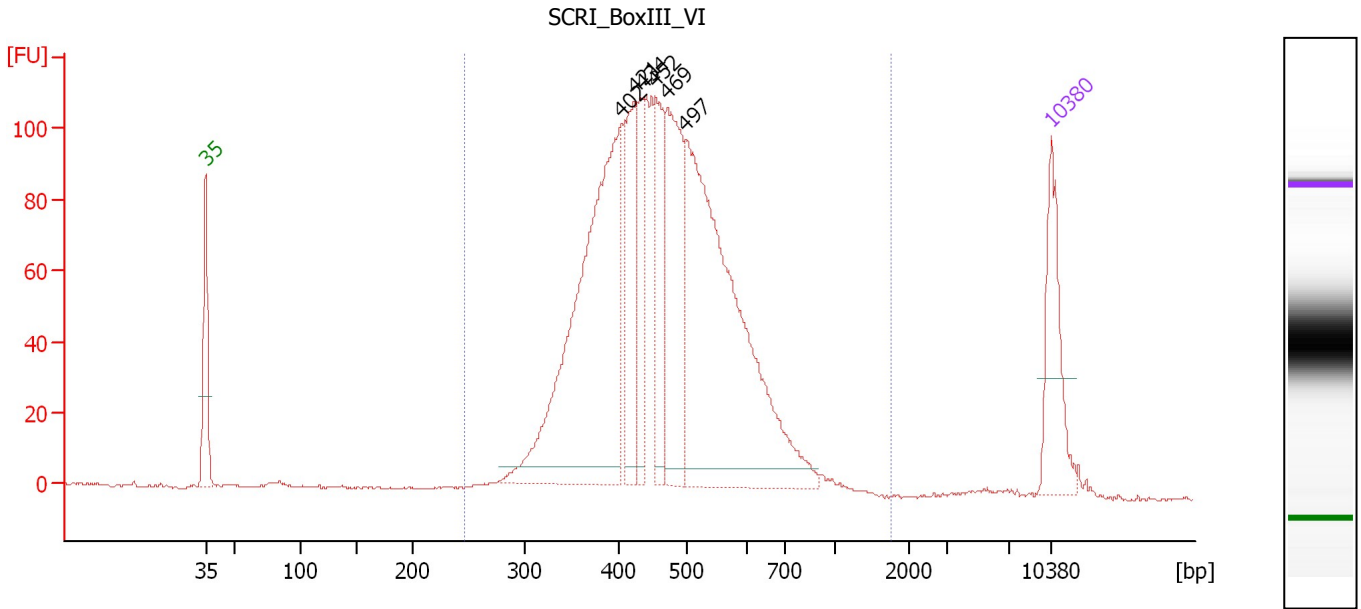
Region table for sample 6 : blank

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	217	20.21	19.0	140.9	23	3.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SCRI_BoxIII_VI

Number of peaks found: 6 Corr. Area 1: 1,946.0
 Noise: 0.3

Peak table for sample 7 : SCRI_BoxIII_VI

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	402	501.90	1,891.3		77.40
3	421	116.53	419.5		78.46
4	434	73.60	257.2		79.17
5	452	104.92	351.4		80.23
6	469	192.68	622.6		81.16
7	497	548.78	1,672.4		82.75
8	10,380	75.00	10.9	Upper Marker	113.00

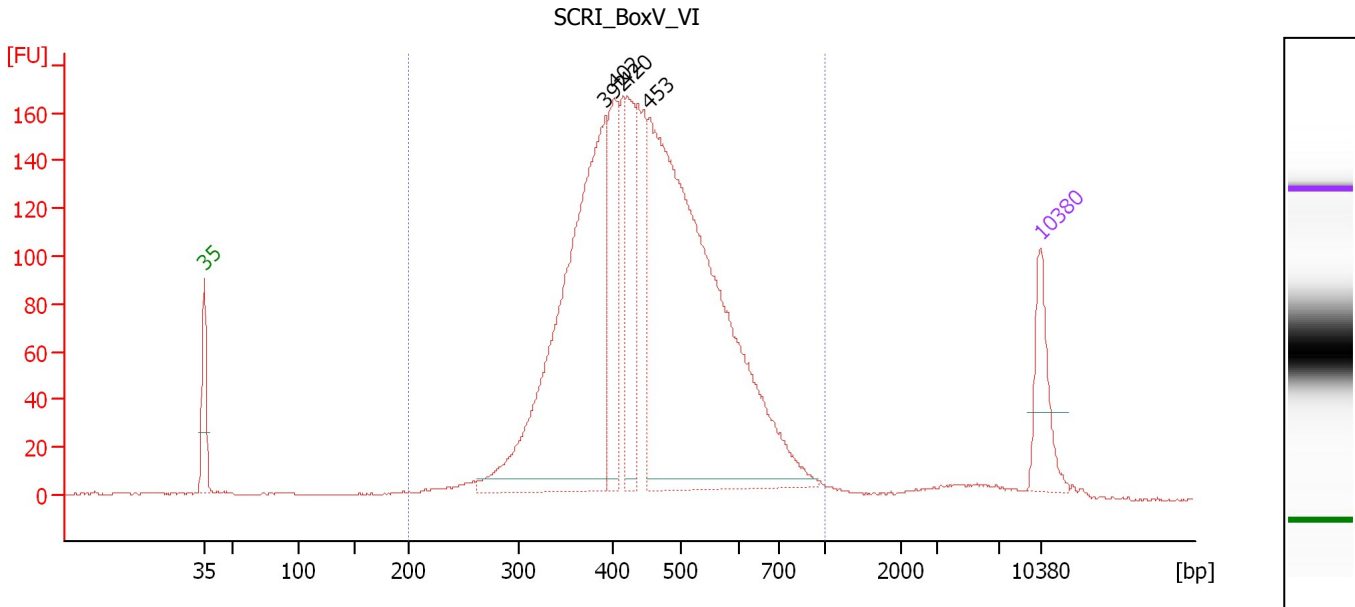
Region table for sample 7 : SCRI_BoxIII_VI

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
246	1,744	471	1,753.92	1,946.0	5,991.2	99	22.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SCRI_BoxV_VI

Number of peaks found: 4 Corr. Area 1: 3,075.5
 Noise: 0.3

Peak table for sample 8 : SCRI_BoxV_VI

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	392	820.97	3,176.9		76.62
3	402	197.14	742.4		77.42
4	420	180.17	650.2		78.40
5	453	1,173.07	3,921.9		80.28
6	10,380	75.00	10.9	Upper Marker	113.00

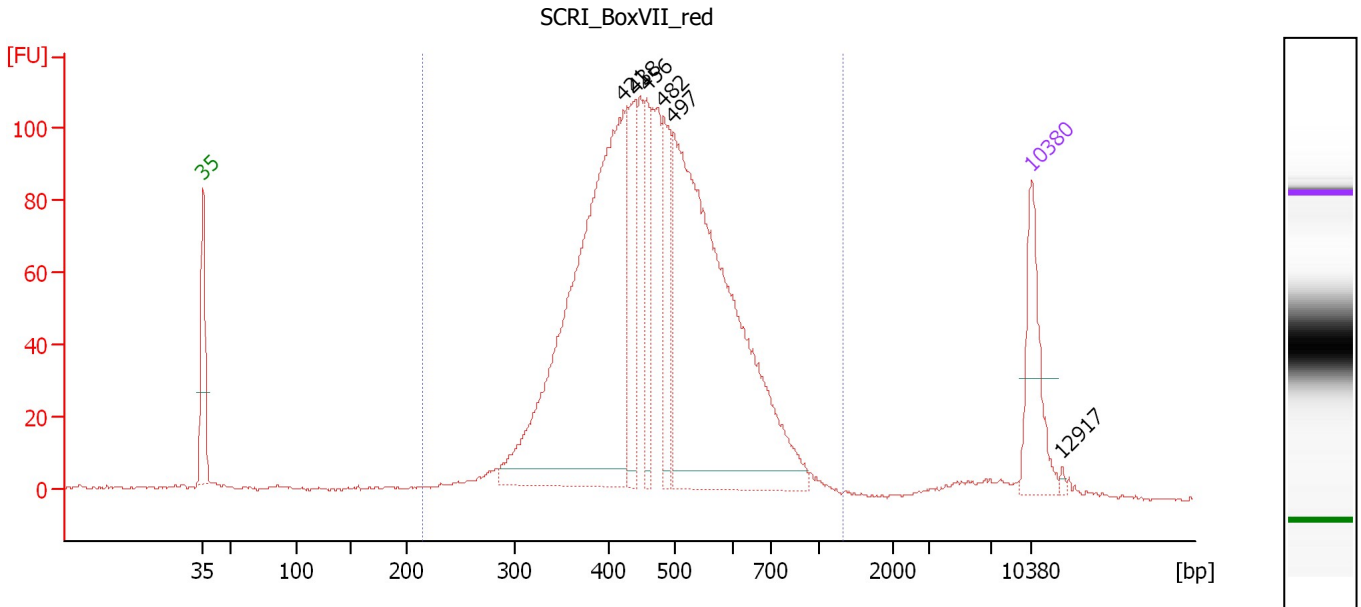
Region table for sample 8 : SCRI_BoxV_VI

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	457	2,752.11	3,075.5	9,777.5	97	23.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SCRI_BoxVII_red

Number of peaks found: 6 Corr. Area 1: 2,022.4
 Noise: 0.4

Peak table for sample 9 : SCRI_BoxVII_red

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	421	717.38	2,578.7		78.50
3	438	132.84	460.0		79.40
4	456	87.52	290.8		80.43
5	482	104.11	327.0		81.92
6	497	706.26	2,153.8		82.73
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,917	0.00	0.0		115.57

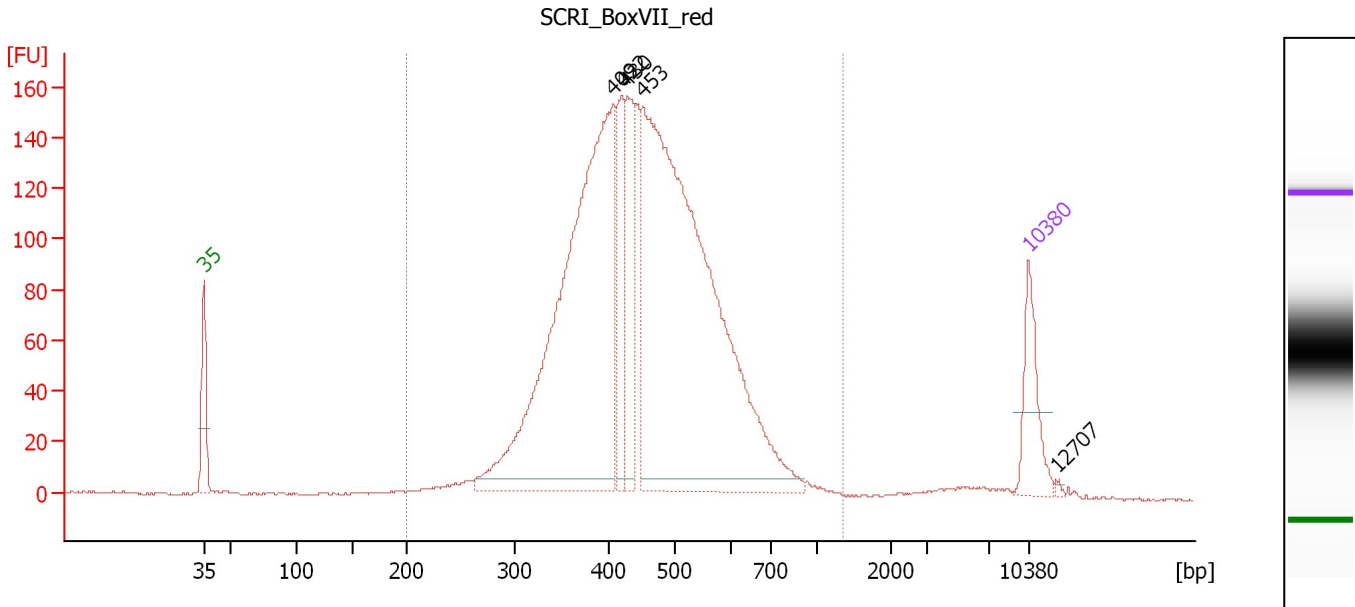
Region table for sample 9 : SCRI_BoxVII_red

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
215	1,322	478	2,043.16	2,022.4	6,969.0	97	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SCRI BoxVII red

Number of peaks found: 5 Corr. Area 1: 2,865.1
 Noise: 0.4

Peak table for sample 10 : SCRI BoxVII red

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	409	1,024.32	3,797.8		77.77
3	422	143.67	516.4		78.50
4	430	169.53	597.9		78.95
5	453	1,265.95	4,234.5		80.26
6	10,380	75.00	10.9	Upper Marker	113.00
7	12,707	0.00	0.0		115.35

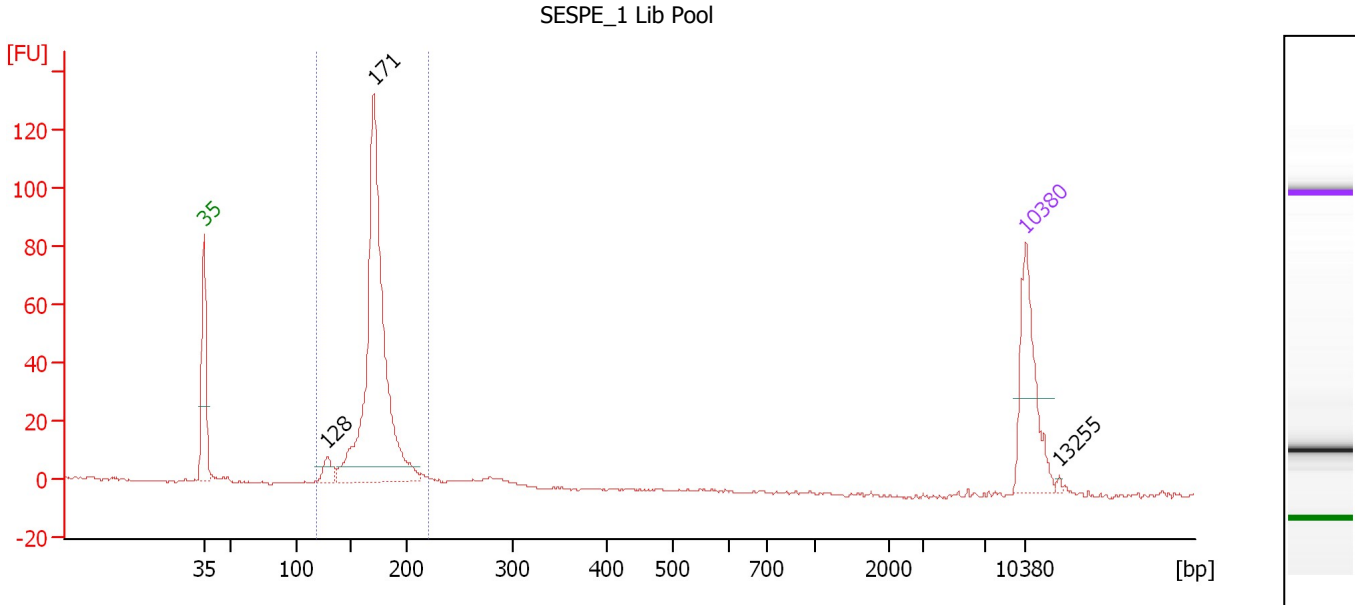
Region table for sample 10 : SCRI BoxVII red

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,352	458	2,819.85	2,865.1	9,990.1	98	23.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SESPE_1 Lib Pool

Number of peaks found: 3 Corr. Area 1: 404.5
 Noise: 0.3

Peak table for sample 11 : SESPE_1 Lib Pool

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	128	19.32	228.4		53.50
3	171	473.55	4,205.8		57.45
4	10,380	75.00	10.9	Upper Marker	113.00
5	13,255	0.00	0.0		115.91

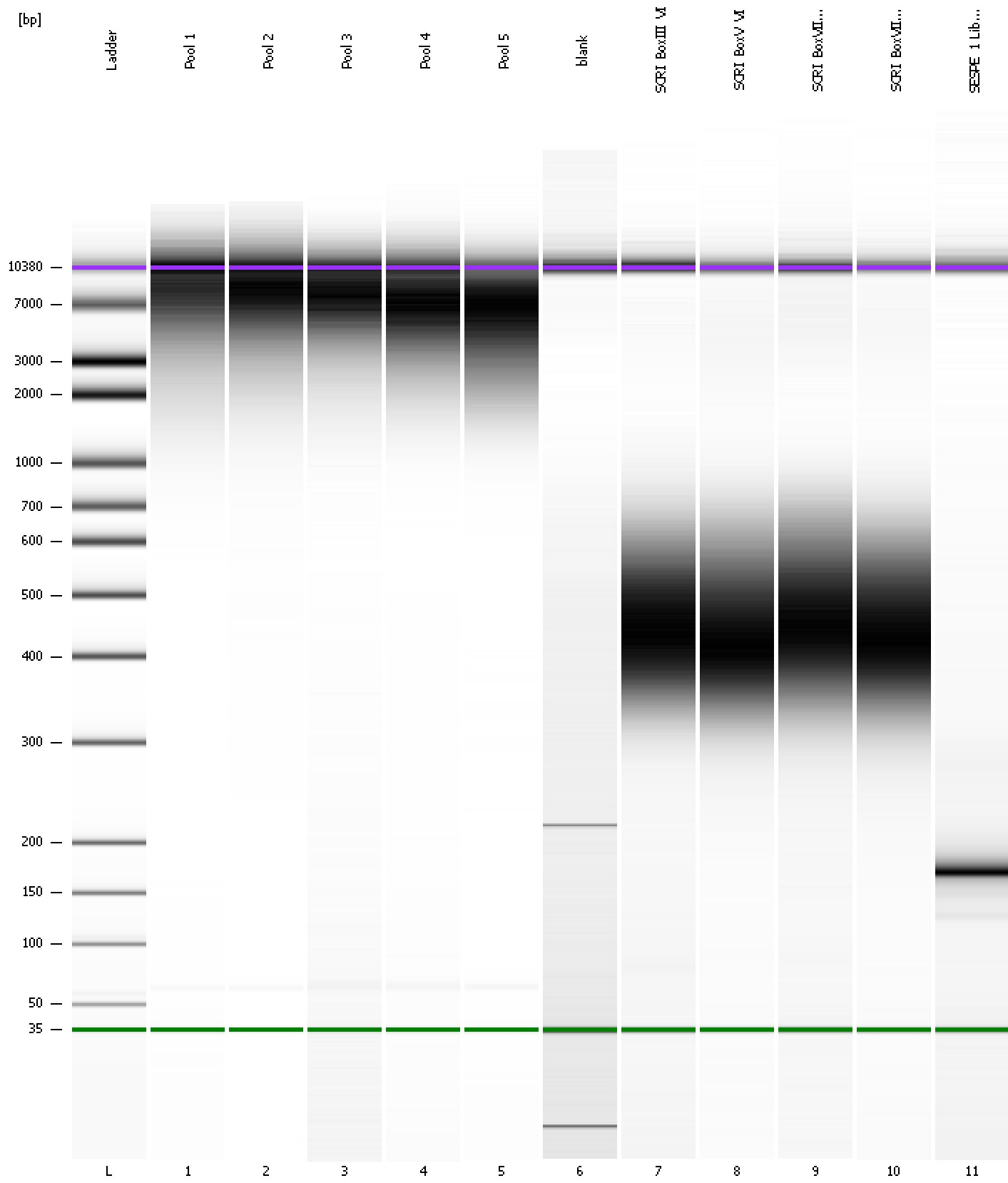
Region table for sample 11 : SESPE_1 Lib Pool

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
118	221	172	497.95	404.5	4,430.3	94	8.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
Modified: 4/17/2019 1:26:45 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-17\2019-04-17_001.xad

Created: 4/17/2019 10:02:56 AM
 Modified: 4/17/2019 1:26:45 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		4/17/2019 10:44:12 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\2019-04-17\2019-04-17_001.xad)		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/17/2019 10:03:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1