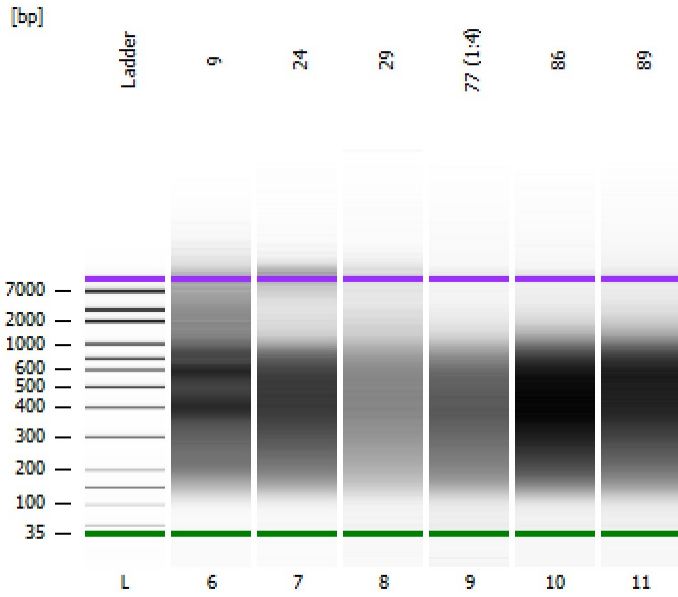


Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electrophoresis File Run Summary



Instrument Information:

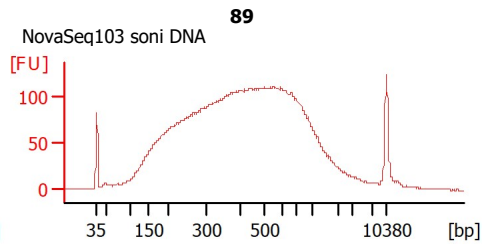
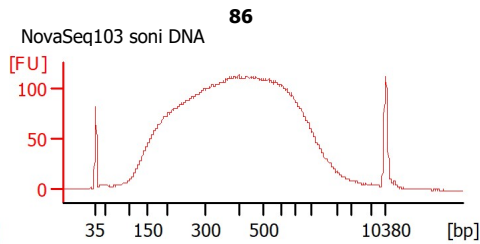
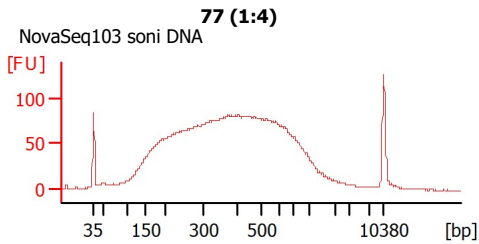
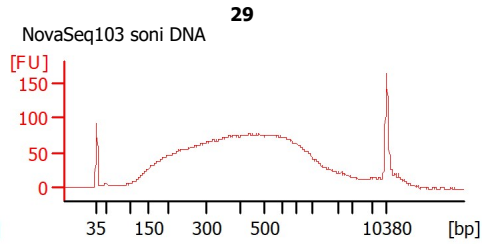
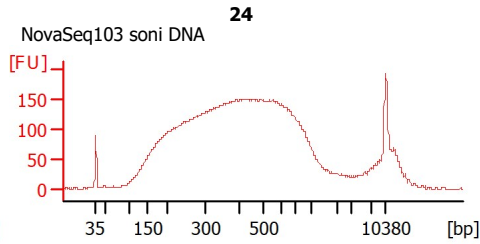
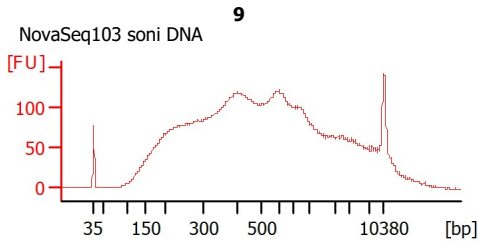
Instrument Name: DE34903152 Firmware: C.01.069
 Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9	NovaSeq103 soni DNA	<input type="checkbox"/>				
24	NovaSeq103 soni DNA	<input type="checkbox"/>				
29	NovaSeq103 soni DNA	<input type="checkbox"/>				
77 (1:4)	NovaSeq103 soni DNA	<input type="checkbox"/>				
86	NovaSeq103 soni DNA	<input type="checkbox"/>				
89	NovaSeq103 soni DNA	<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 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

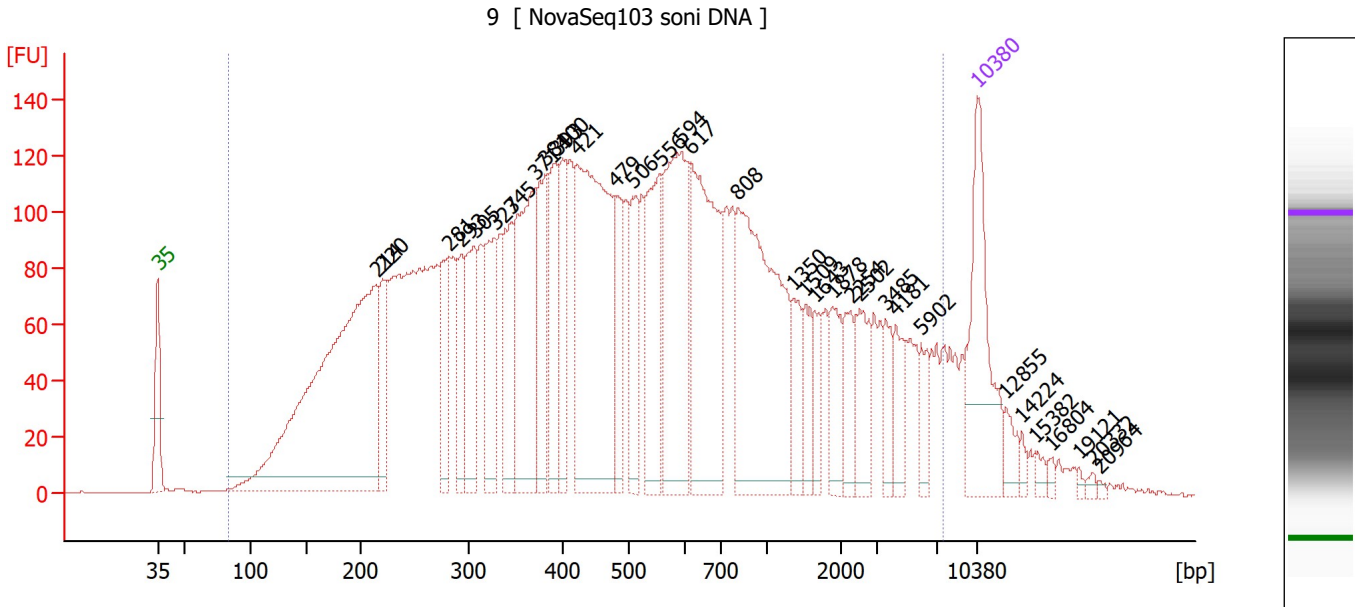
Ladder

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:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary



Overall Results for sample 6 : 9

Number of peaks found: 34 Corr. Area 1: 5,999.1
 Noise: 0.2

Peak table for sample 6 : 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	214	434.07	3,076.5	
3	220	49.54	341.1	
4	281	57.56	310.7	
5	293	46.12	238.8	
6	305	70.62	350.6	
7	327	66.35	307.0	
8	345	70.62	310.0	
9	371	126.22	515.9	
10	381	68.94	274.1	
11	393	70.18	270.6	
12	400	50.88	192.7	
13	421	235.96	848.5	
14	479	49.25	155.6	
15	506	51.08	152.9	
16	556	80.64	219.7	
17	594	136.10	347.3	
18	617	151.10	370.9	
19	808	197.25	370.0	
20	1,350	25.98	29.2	
21	1,509	24.16	24.3	
22	1,643	16.80	15.5	
23	1,878	28.64	23.1	
24	2,254	21.50	14.5	
25	2,502	30.69	18.6	
26	3,485	17.51	7.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,181	21.69	7.9	
28	5,902	15.79	4.1	
29	10,380	75.00	10.9	Upper Marker
30	12,855	0.00	0.0	
31	14,224	0.00	0.0	
32	15,382	0.00	0.0	
33	16,804	0.00	0.0	
34	19,121	0.00	0.0	
35	20,332	0.00	0.0	
36	20,964	0.00	0.0	

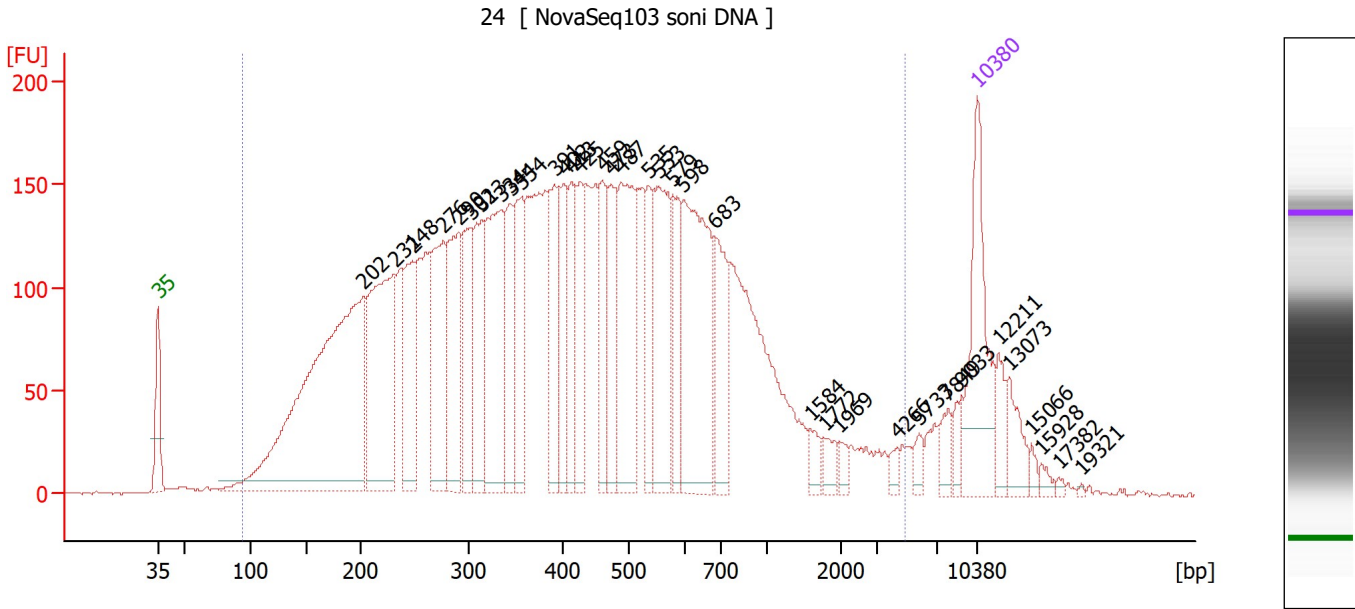
Region table for sample 6 : 9

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
83	7,534	5,999.1	96	931	100.0	3,011.77	13,345.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 24

Number of peaks found: 35 Corr. Area 1: 7,175.1
 Noise: 0.4

Peak table for sample 7 : 24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	462.07	3,463.0	
3	231	204.41	1,339.7	
4	248	91.63	559.8	
5	276	119.70	657.5	
6	290	110.77	578.0	
7	302	83.44	419.2	
8	313	82.98	401.7	
9	334	145.11	657.5	
10	344	63.94	281.8	
11	354	72.86	311.4	
12	391	74.57	288.7	
13	402	56.16	211.7	
14	413	55.96	205.2	
15	425	55.55	197.8	
16	459	58.38	192.5	
17	473	61.29	196.5	
18	487	121.68	378.8	
19	535	49.22	139.4	
20	553	105.85	290.0	
21	579	51.46	134.6	
22	598	159.82	404.7	
23	683	69.62	154.4	
24	1,584	11.16	10.7	
25	1,772	10.00	8.5	
26	1,969	6.62	5.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,266	6.16	2.2	
28	5,733	7.73	2.0	
29	7,849	13.04	2.5	
30	9,033	9.97	1.7	
31	10,380	75.00	10.9	Upper Marker
32	12,211	0.00	0.0	
33	13,073	0.00	0.0	
34	15,066	0.00	0.0	
35	15,928	0.00	0.0	
36	17,382	0.00	0.0	
37	19,321	0.00	0.0	

Region table for sample 7 : 24

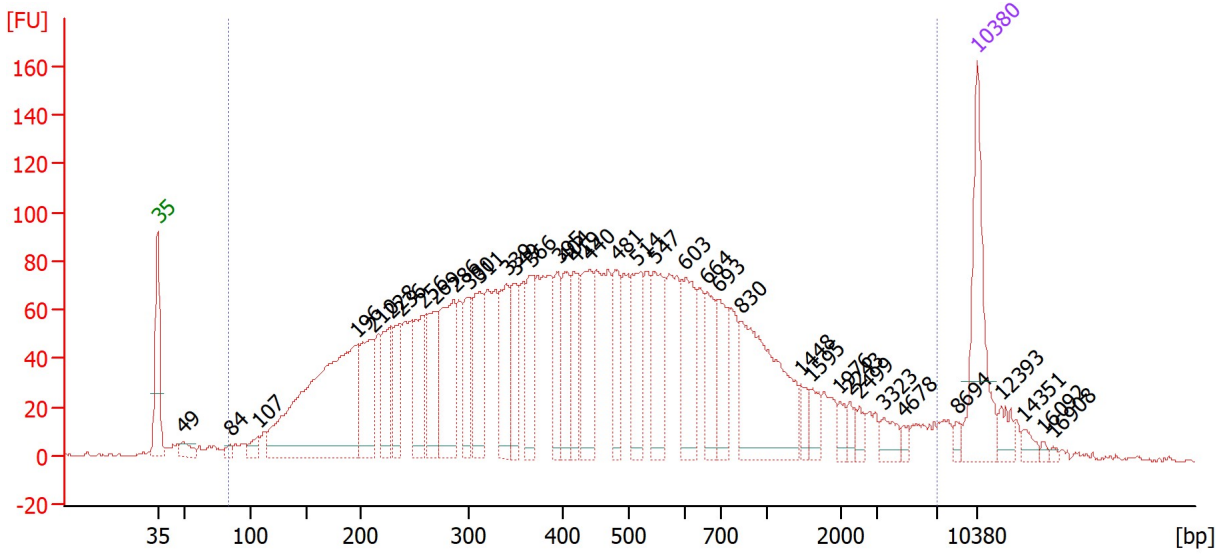
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
93	4,763	7,175.1	95	524	94.5	3,238.03	15,887.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

29 [NovaSeq103 soni DNA]



Overall Results for sample 8 : 29

Number of peaks found: 38 Corr. Area 1: 3,784.1
 Noise: 0.6

Peak table for sample 8 : 29

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	15.01	466.8	
3	84	6.14	110.7	
4	107	11.98	169.9	
5	196	316.41	2,446.7	
6	210	80.37	580.0	
7	228	56.34	375.2	
8	236	46.28	297.5	
9	256	64.28	380.1	
10	269	68.51	386.5	
11	286	105.07	556.4	
12	300	47.70	241.2	
13	311	69.85	340.3	
14	339	64.20	286.6	
15	349	49.90	216.7	
16	366	53.68	222.3	
17	395	47.65	182.8	
18	404	47.25	177.1	
19	419	43.50	157.5	
20	440	73.05	251.3	
21	481	45.05	141.8	
22	514	61.61	181.5	
23	547	64.25	177.9	
24	603	62.25	156.3	
25	664	41.08	93.8	
26	693	44.06	96.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 29

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	830	139.10	254.0	
28	1,448	11.72	12.3	
29	1,595	13.86	13.2	
30	1,976	7.68	5.9	
31	2,243	7.95	5.4	
32	2,499	7.25	4.4	
33	3,323	12.89	5.9	
34	4,678	4.52	1.5	
35	8,694	4.66	0.8	
36	10,380	75.00	10.9	Upper Marker
37	12,393	0.00	0.0	
38	14,351	0.00	0.0	
39	16,092	0.00	0.0	
40	16,908	0.00	0.0	

Region table for sample 8 : 29

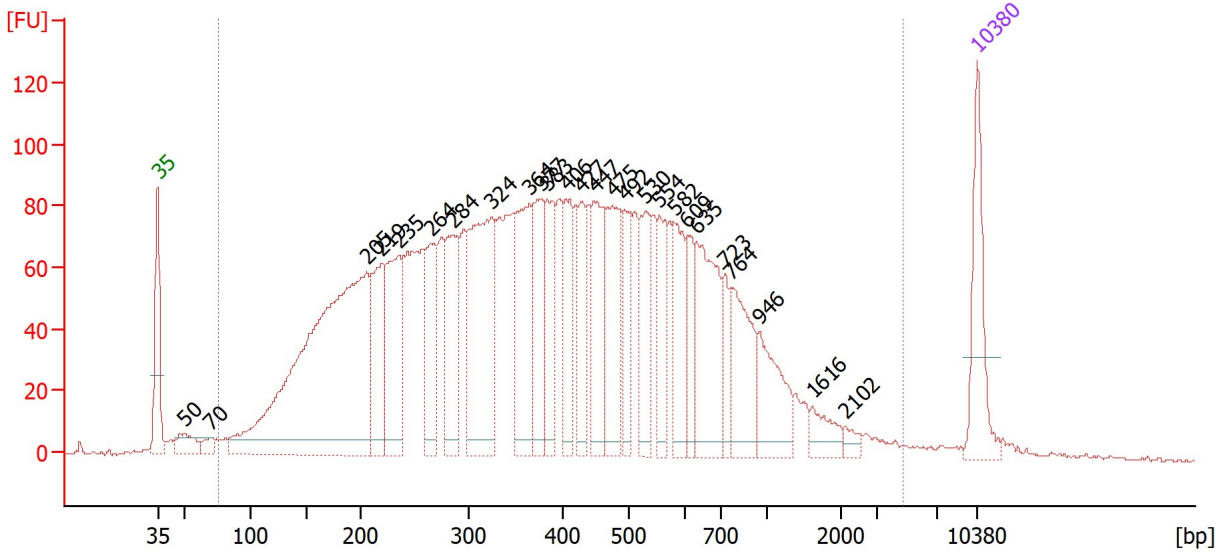
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
83	6,906	3,784.1	96	654	100.0	2,564.29	12,326.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

77 (1:4) [NovaSeq103 soni DNA]



Overall Results for sample 9 : 77 (1:4)

Number of peaks found: 26 Corr. Area 1: 4,013.5
 Noise: 0.4

Peak table for sample 9 : 77 (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	33.42	1,016.2	
3	70	15.67	340.5	
4	205	727.75	5,386.9	
5	219	138.81	961.1	
6	235	169.72	1,095.4	
7	264	109.06	626.7	
8	284	120.19	640.6	
9	324	254.66	1,190.7	
10	364	151.77	631.4	
11	377	112.75	453.0	
12	383	88.74	350.8	
13	406	85.15	317.7	
14	427	77.91	276.3	
15	447	112.31	380.4	
16	475	123.71	394.5	
17	492	67.46	207.6	
18	530	85.91	245.6	
19	554	64.02	175.1	
20	582	78.43	204.3	
21	609	47.81	119.0	
22	635	137.67	328.5	
23	723	38.50	80.7	
24	764	102.69	203.8	
25	946	79.00	126.5	
26	1,616	25.67	24.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : 77 (1:4)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,102	9.75	7.0	
28	10,380	75.00	10.9	Upper Marker

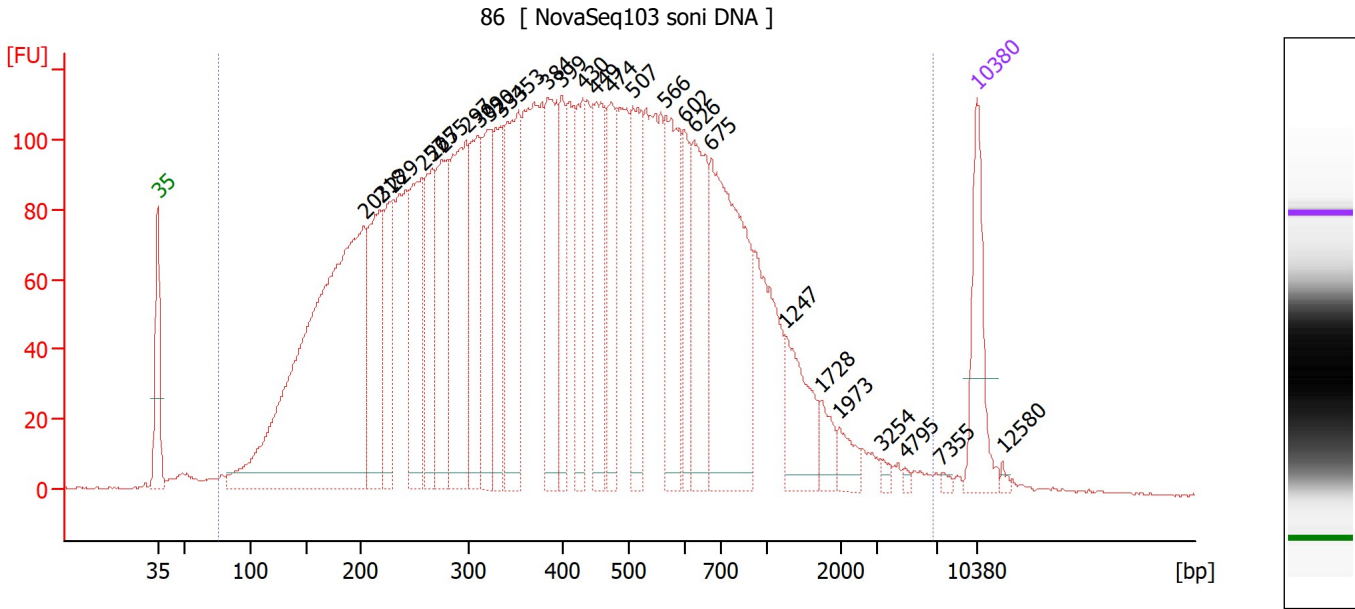
Region table for sample 9 : 77 (1:4)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
75	4,619	4,013.5	97	478	83.5	4,060.76	21,347.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 86

Number of peaks found: 28 Corr. Area 1: 5,435.9
 Noise: 0.3

Peak table for sample 10 : 86

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	203	889.53	6,651.2	
3	218	200.49	1,393.2	
4	229	130.71	863.7	
5	257	188.63	1,114.1	
6	265	140.88	804.2	
7	275	175.59	967.7	
8	297	263.35	1,341.6	
9	309	148.60	727.9	
10	320	131.23	620.8	
11	334	128.65	583.7	
12	353	212.87	913.5	
13	384	162.37	640.9	
14	399	97.31	369.7	
15	430	115.98	408.5	
16	449	142.70	481.1	
17	474	111.75	357.6	
18	507	127.29	380.0	
19	566	153.72	411.2	
20	602	70.88	178.5	
21	626	146.99	355.7	
22	675	313.37	703.3	
23	1,247	78.20	95.0	
24	1,728	23.85	20.9	
25	1,973	20.66	15.9	
26	3,254	5.58	2.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : 86

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,795	3.44	1.1	
28	7,355	3.58	0.7	
29	10,380	75.00	10.9	Upper Marker
30	12,580	0.00	0.0	

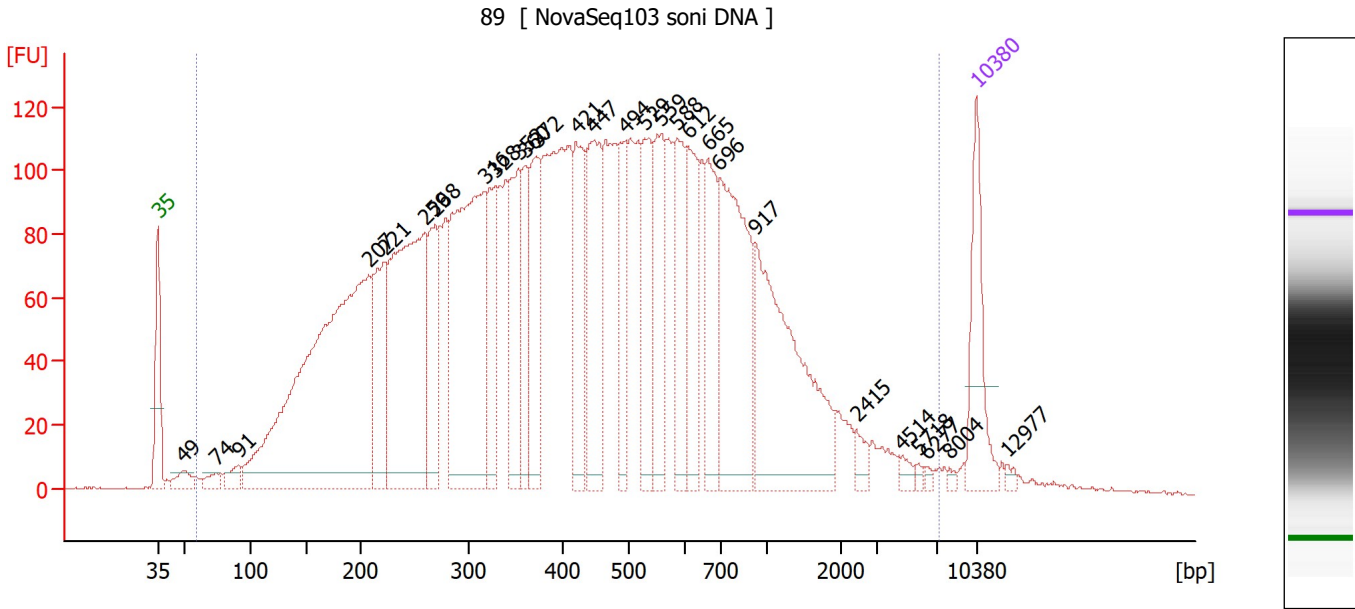
Region table for sample 10 : 86

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
75	6,733	5,435.9	99	526	100.0	5,609.32	28,237.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 89

Number of peaks found: 28 Corr. Area 1: 5,330.2
 Noise: 0.3

Peak table for sample 11 : 89

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	24.63	762.6	
3	74	17.30	356.2	
4	91	22.07	368.3	
5	207	794.22	5,810.3	
6	221	146.92	1,005.5	
7	259	411.65	2,403.7	
8	268	118.62	669.6	
9	316	402.68	1,932.3	
10	328	104.92	484.5	
11	352	131.35	565.1	
12	360	90.39	380.0	
13	372	117.82	479.8	
14	421	126.72	456.5	
15	447	171.52	581.7	
16	494	83.30	255.4	
17	529	110.59	316.8	
18	559	112.54	305.0	
19	588	106.26	273.8	
20	612	107.07	265.1	
21	665	112.97	257.5	
22	696	245.36	533.9	
23	917	268.01	443.0	
24	2,415	13.48	8.5	
25	4,514	7.04	2.4	
26	5,718	3.78	1.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : 89

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	6,277	3.11	0.8	
28	8,004	2.93	0.6	
29	10,380	75.00	10.9	Upper Marker
30	12,977	0.00	0.0	

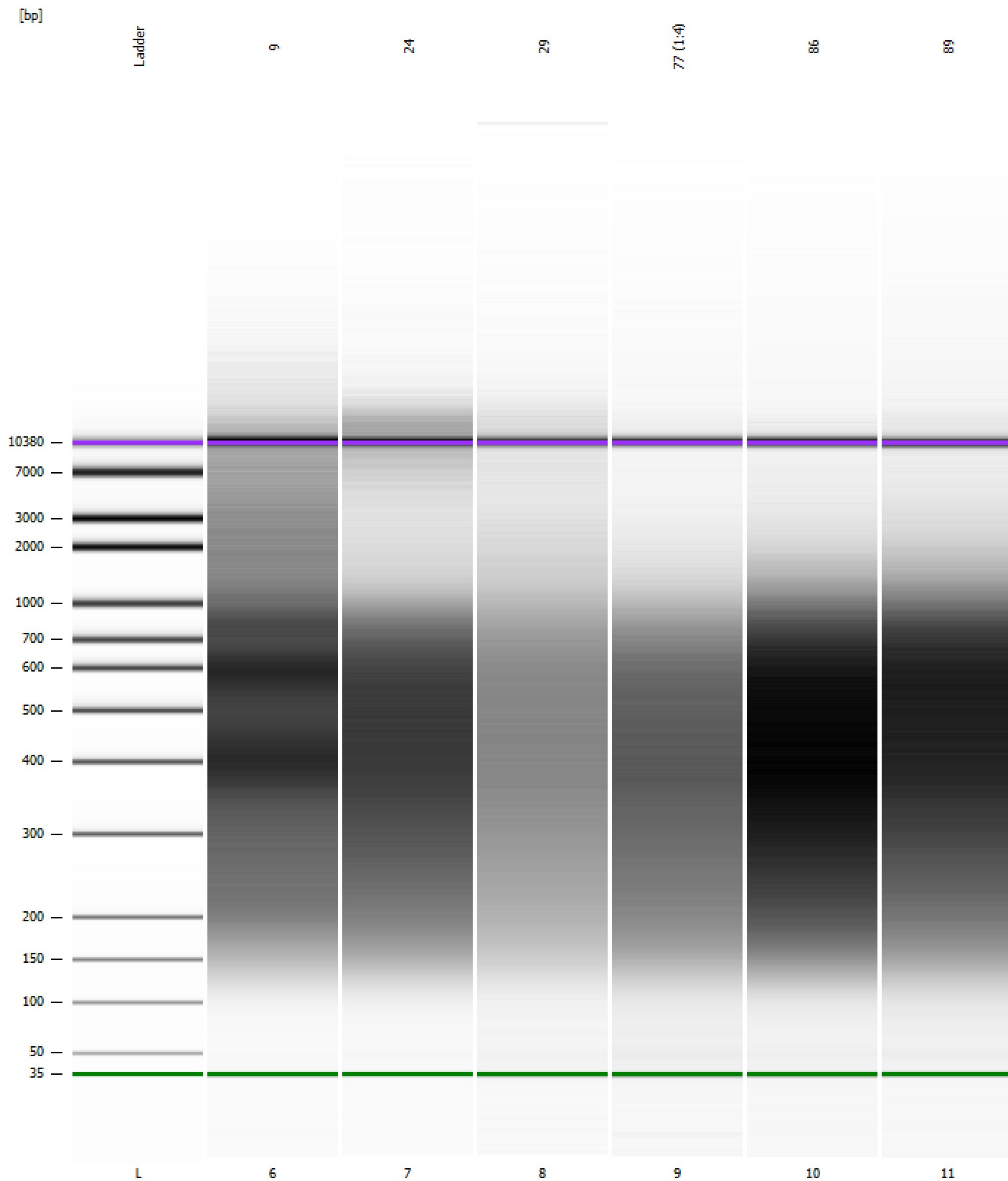
Region table for sample 11 : 89

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
59	7,142	5,330.2	98	583	100.0	5,113.18	25,435.3	

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
Modified: 1/15/2020 12:57:17 PM

Gel Image

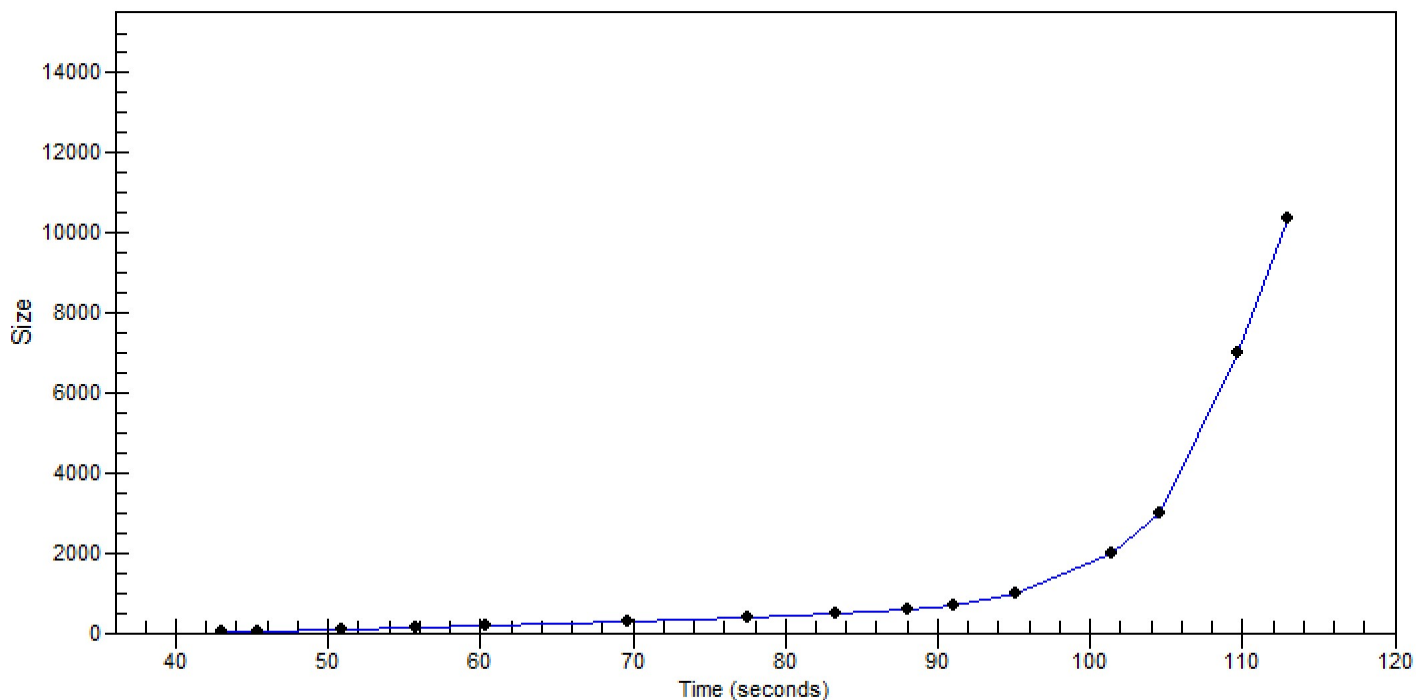


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
Modified: 1/15/2020 12:57:17 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...y DNA Assay_2020-01-15_001_NovaSeq103_SoniDNA_SpotCheck.xad

Created: 1/15/2020 12:00:54 PM
 Modified: 1/15/2020 12:57:17 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		1/15/2020 12:42:16 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-15\Bioanalyze r1_High Sensitivity DNA Assay_2020-01-15_001.xad)		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/15/2020 12:00:59 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB