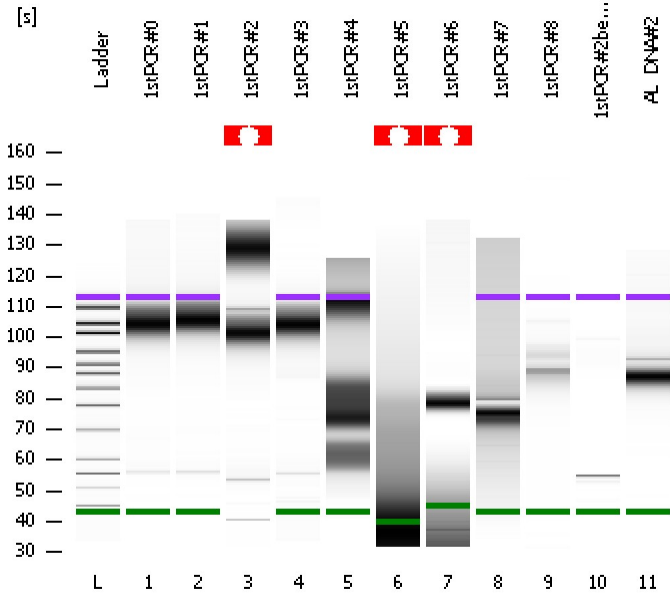


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 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

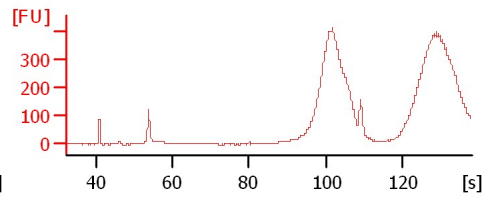
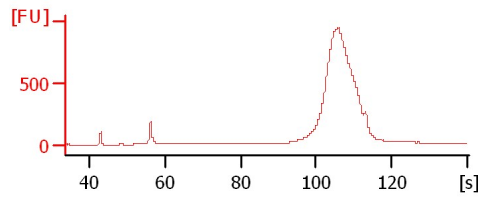
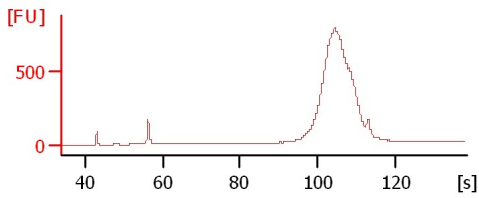
Chip Information:

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

1stPCR#0

1stPCR#1

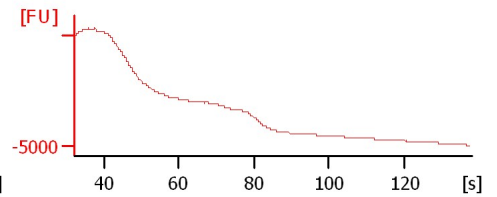
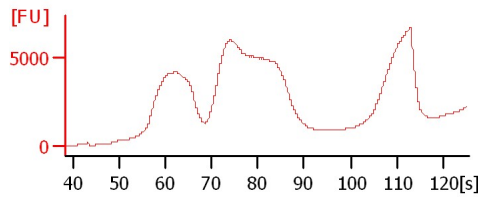
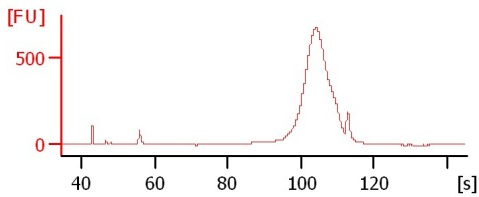
1stPCR#2



1stPCR#3

1stPCR#4

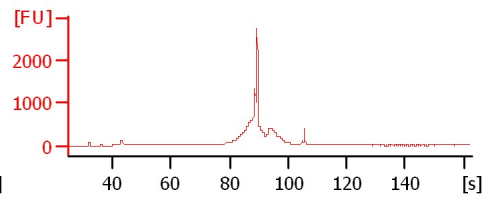
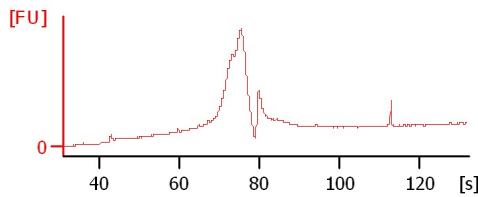
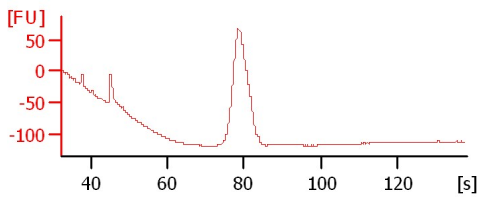
1stPCR#5



1stPCR#6

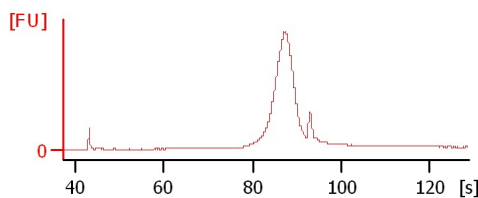
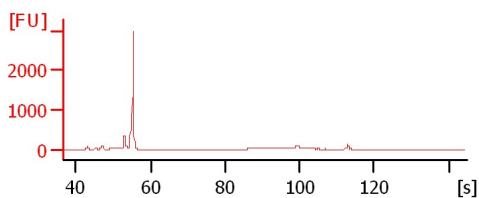
1stPCR#7

1stPCR#8



1stPCR#2before_pur.

AL_DNA#2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1stPCR#0		<input type="checkbox"/>	✓			
1stPCR#1		<input type="checkbox"/>	✓			
1stPCR#2		<input type="checkbox"/>	✓			
1stPCR#3		<input type="checkbox"/>	✓			
1stPCR#4		<input type="checkbox"/>	✓			
1stPCR#5		<input type="checkbox"/>	✓			
1stPCR#6		<input type="checkbox"/>	✓			
1stPCR#7		<input type="checkbox"/>	✓			
1stPCR#8		<input type="checkbox"/>	✓			
1stPCR#2before_pur.		<input type="checkbox"/>	✓			
AL_DNA#2		<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\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 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

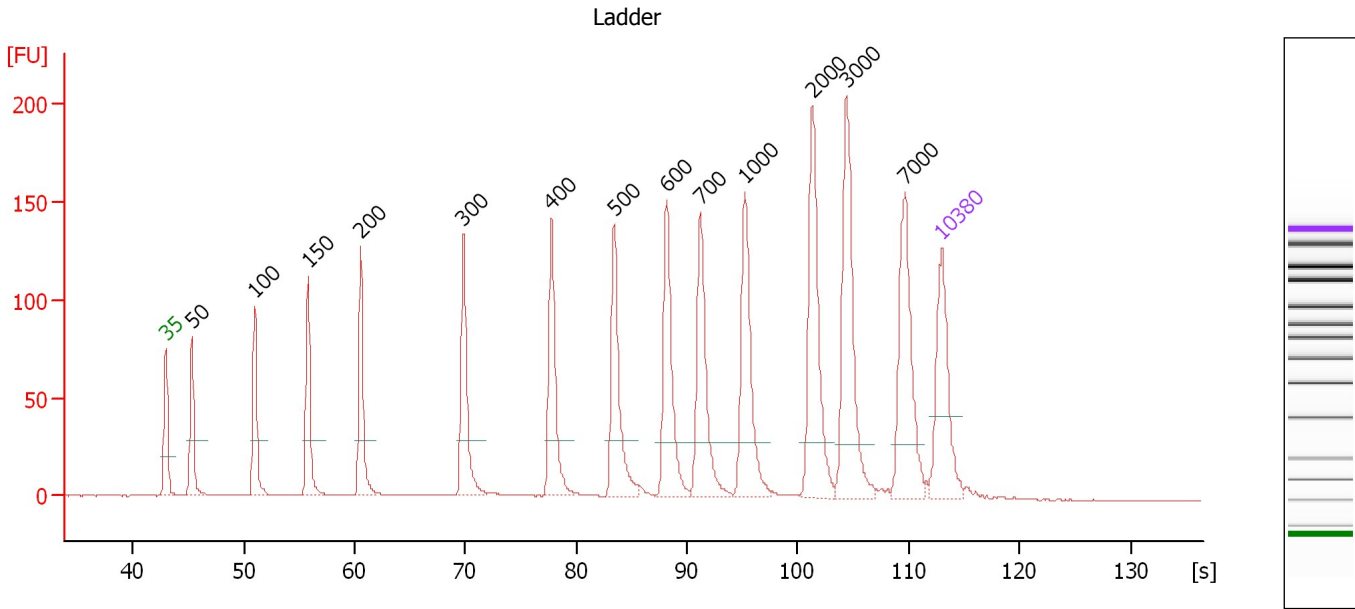
Ladder

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:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

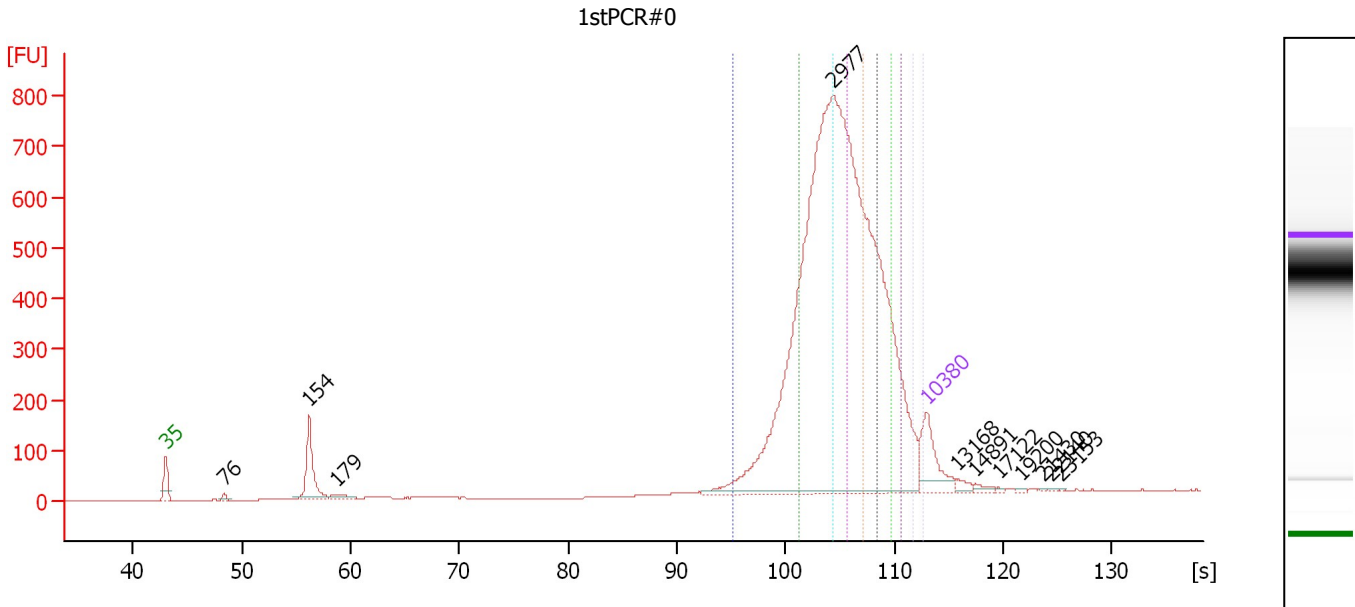
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	51.04
4	150	150.00	1,515.2	Ladder Peak	55.84
5	200	150.00	1,136.4	Ladder Peak	60.58
6	300	150.00	757.6	Ladder Peak	69.84
7	400	150.00	568.2	Ladder Peak	77.78
8	500	150.00	454.5	Ladder Peak	83.45
9	600	150.00	378.8	Ladder Peak	88.20
10	700	150.00	324.7	Ladder Peak	91.25
11	1,000	150.00	227.3	Ladder Peak	95.22
12	2,000	150.00	113.6	Ladder Peak	101.33
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1stPCR#0

Number of peaks found:	11	Corr. Area 5:	667.3
Noise:	0.3	Corr. Area 6:	534.5
Corr. Area 1:	895.2	Corr. Area 7:	268.9
Corr. Area 2:	1,915.1	Corr. Area 8:	161.0
Corr. Area 3:	980.2	Corr. Area 9:	62.4
Corr. Area 4:	822.2		

Peak table for sample 1 : 1stPCR#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	76	9.28	184.6		48.34
3	154	126.34	1,245.4		56.19
4	179	13.03	110.2		58.61
5	2,977	2,090.83	1,064.3		104.31
6	10,380	75.00	10.9	Upper Marker	113.00
7	13,168	0.00	0.0		115.72
8	14,891	0.00	0.0		117.40
9	17,122	0.00	0.0		119.57
10	19,200	0.00	0.0		121.60
11	21,430	0.00	0.0		123.77
12	22,140	0.00	0.0		124.46
13	23,153	0.00	0.0		125.45






Region table for sample 1 : 1stPCR#0

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,708	303.02	895.2	268.8	13	14.2
2,000	3,000	2,533	627.75	1,915.1	375.4	29	11.1
3,000	4,000	3,440	322.81	980.2	142.2	15	8.6
4,000	5,000	4,427	272.72	822.2	93.3	12	6.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 AM

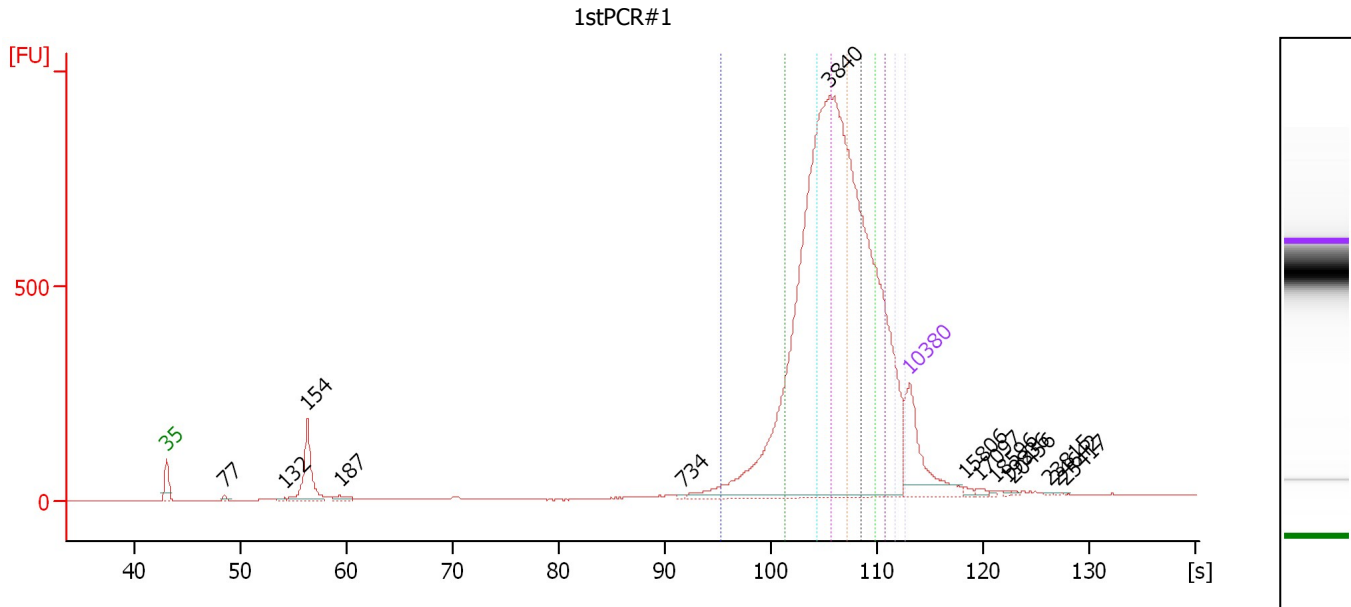
Electropherogram Summary Continued ...**... Region table for sample 1 : 1stPCR#0**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
5,000	6,000	5,435	223.00	667.3	62.2	 10	5.5
6,000	7,000	6,424	179.93	534.5	42.4	 8	4.6
7,000	8,000	7,401	90.17	268.9	18.5	 4	4.1
8,000	9,000	8,400	52.90	161.0	9.5	 2	3.6
9,000	10,000	9,459	20.10	62.4	3.2	 1	3.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1stPCR#1

Number of peaks found:	14	Corr. Area 5:	924.3
Noise:	0.7	Corr. Area 6:	765.3
Corr. Area 1:	580.0	Corr. Area 7:	442.3
Corr. Area 2:	1,703.6	Corr. Area 8:	337.5
Corr. Area 3:	1,150.9	Corr. Area 9:	203.8
Corr. Area 4:	1,155.5		

Peak table for sample 2 : 1stPCR#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	77	4.11	80.7		48.44
3	132	3.34	38.3		54.13
4	154	91.69	900.4		56.24
5	187	8.28	67.2		59.32
6	734	1.64	3.4		91.70
7	3,840	1,325.48	523.0		105.50
8	10,380	75.00	10.9	Upper Marker	113.00
9	15,806	0.00	0.0		118.29
10	17,097	0.00	0.0		119.55
11	18,596	0.00	0.0		121.01
12	19,836	0.00	0.0		122.22
13	20,456	0.00	0.0		122.82
14	23,815	0.00	0.0		126.09
15	24,642	0.00	0.0		126.90
16	25,417	0.00	0.0		127.65

Region table for sample 2 : 1stPCR#1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,678	107.42	580.0	97.0	8	15.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...

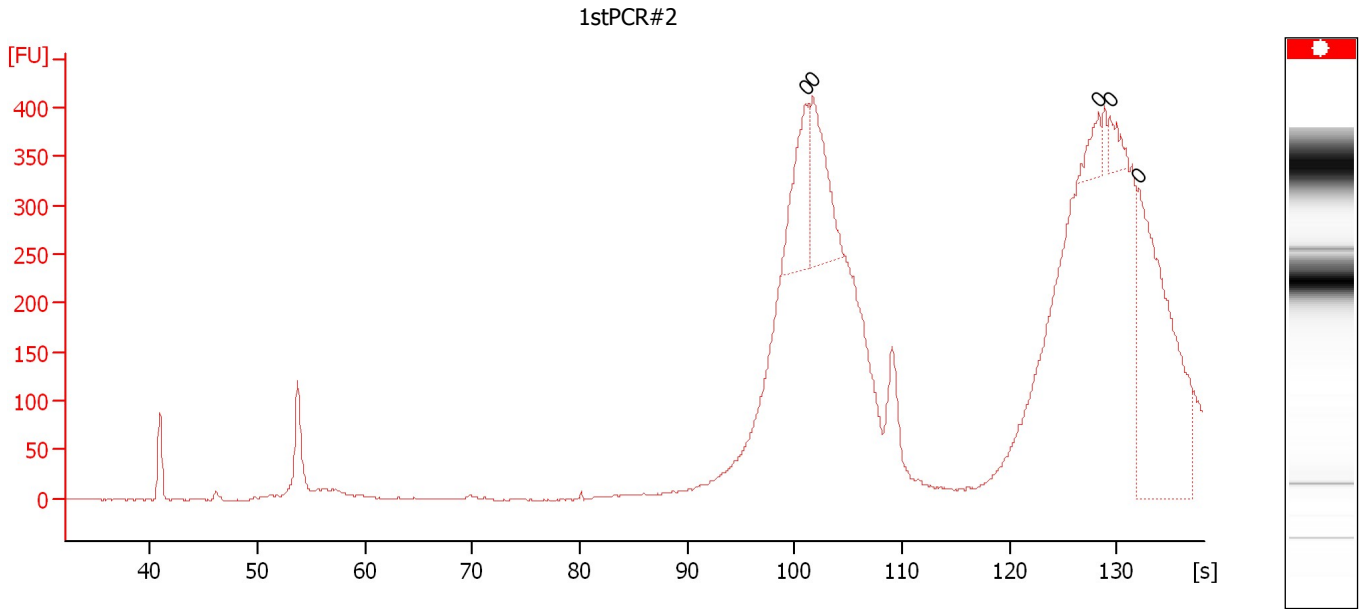
... Region table for sample 2 : 1stPCR#1

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
2,000	3,000	2,581	304.53	1,703.6	178.8	22	10.8
3,000	4,000	3,469	206.71	1,150.9	90.3	15	8.4
4,000	5,000	4,453	209.02	1,155.5	71.1	15	6.8
5,000	6,000	5,447	168.43	924.3	46.9	12	5.4
6,000	7,000	6,448	140.50	765.3	33.0	10	4.7
7,000	8,000	7,445	80.79	442.3	16.4	6	4.0
8,000	9,000	8,414	60.46	337.5	10.9	4	3.5
9,000	10,000	9,411	35.79	203.8	5.8	3	3.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1stPCR#2

Number of peaks found: 0 Noise: 0.8

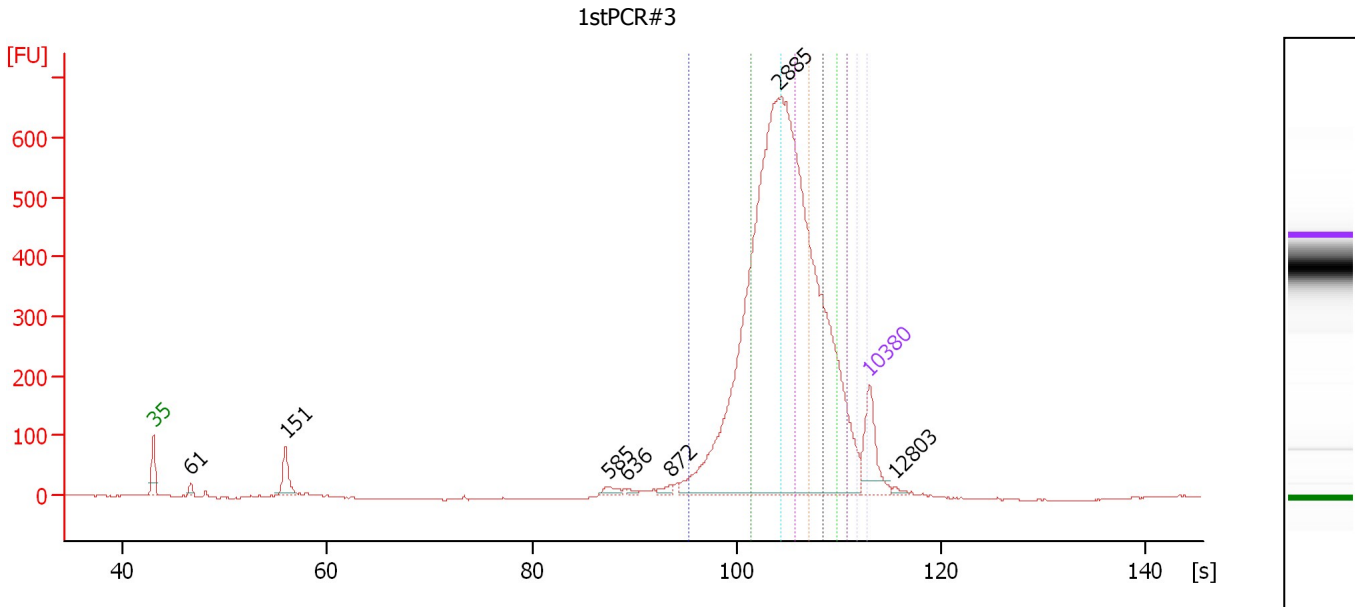
Peak table for sample 3 : 1stPCR#2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		101.00
2	0	0.00	0.0		101.70
3	0	0.00	0.0		128.25
4	0	0.00	0.0		129.35
5	0	0.00	0.0		131.90

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1stPCR#3

Number of peaks found:	7	Corr. Area 5:	483.3
Noise:	0.9	Corr. Area 6:	352.1
Corr. Area 1:	858.4	Corr. Area 7:	185.8
Corr. Area 2:	1,686.4	Corr. Area 8:	103.1
Corr. Area 3:	803.5	Corr. Area 9:	28.8
Corr. Area 4:	642.0		

Peak table for sample 4 : 1stPCR#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	61	13.02	323.5		46.62
3	151	62.97	632.9		55.91
4	585	12.41	32.1		87.50
5	636	4.82	11.5		89.28
6	872	9.69	16.8		93.53
7	2,885	1,834.04	963.1		104.03
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,803	0.00	0.0		115.36

Region table for sample 4 : 1stPCR#3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,695	315.03	858.4	281.6	16	14.7
2,000	3,000	2,536	598.45	1,686.4	357.6	31	11.2
3,000	4,000	3,455	286.48	803.5	125.6	15	8.5
4,000	5,000	4,424	230.54	642.0	79.0	12	6.6
5,000	6,000	5,430	174.82	483.3	48.8	9	5.7
6,000	7,000	6,434	128.32	352.1	30.2	6	4.6
7,000	8,000	7,407	67.43	185.8	13.8	3	4.1
8,000	9,000	8,389	36.70	103.1	6.6	2	3.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...

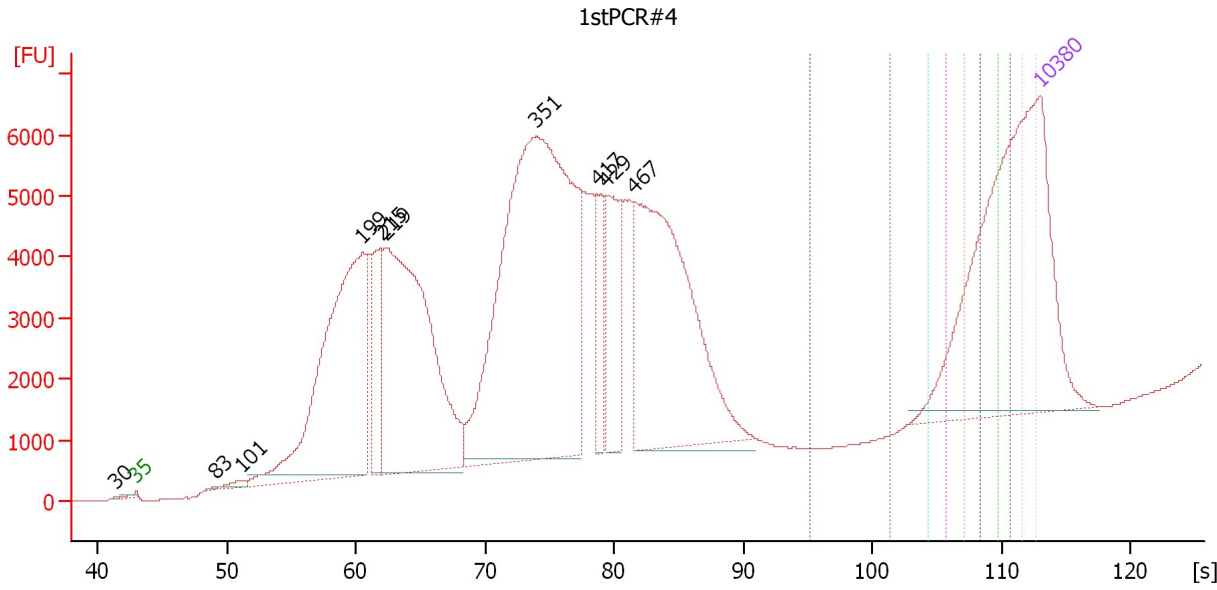
... Region table for sample 4 : 1stPCR#3

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
9,000	10,000	9,477	10.02	28.8	1.6	<input type="checkbox"/> 1	3.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1stPCR#4

Number of peaks found:	10	Corr. Area 5:	0.0
Noise:	12.1	Corr. Area 6:	0.0
Corr. Area 1:	0.0	Corr. Area 7:	0.0
Corr. Area 2:	0.0	Corr. Area 8:	0.0
Corr. Area 3:	0.0	Corr. Area 9:	0.0
Corr. Area 4:	0.0		

Peak table for sample 5 : 1stPCR#4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.47
2	35	125.00	5,411.3	Lower Marker	43.00
3	83	0.34	6.3		49.12
4	101	2.20	32.9		51.15
5	199	119.25	906.0		60.53
6	215	25.50	180.0		61.94
7	219	123.54	856.2		62.31
8	351	191.51	825.5		73.93
9	417	15.31	55.7		78.72
10	429	25.58	90.4		79.43
11	467	95.61	310.2		81.58
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : 1stPCR#4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	0	0.00	0.0	0.0	0	0.0
2,000	3,000	0	0.00	0.0	0.0	0	0.0
3,000	4,000	3,669	0.00	0.0	0.0	0	6.5
4,000	5,000	4,552	0.00	0.0	0.0	0	6.3
5,000	6,000	5,510	0.00	0.0	0.0	0	5.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...**... Region table for sample 5 : 1stPCR#4**

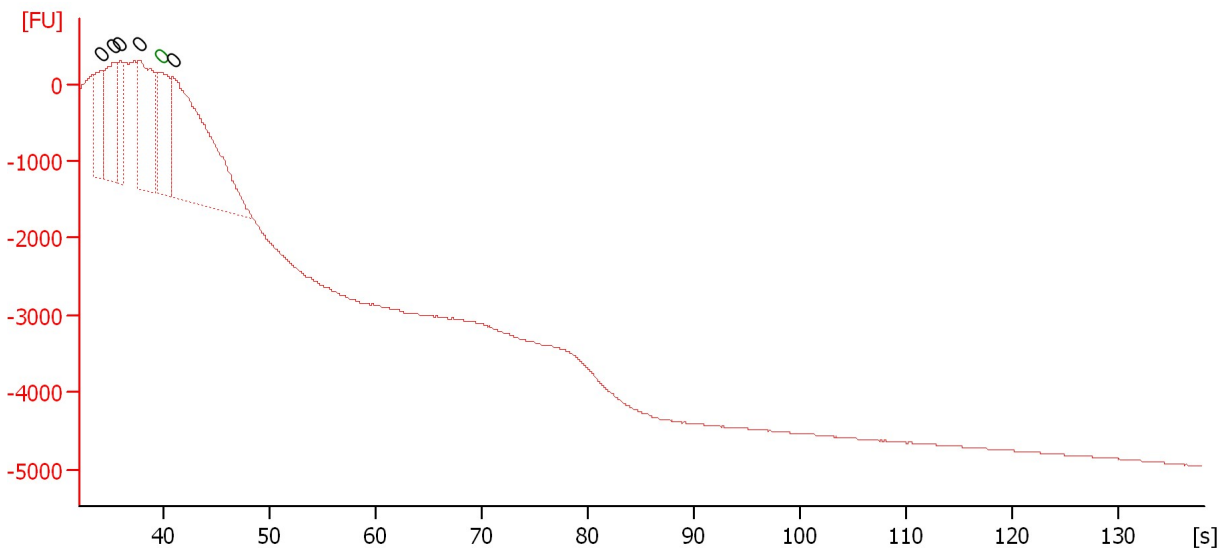
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
6,000	7,000	6,488	0.00	0.0	0.0	0	4.5
7,000	8,000	7,466	0.00	0.0	0.0	0	4.1
8,000	9,000	8,457	0.00	0.0	0.0	0	3.5
9,000	10,000	9,452	0.00	0.0	0.0	0	3.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...

1stPCR#5



Overall Results for sample 6 : 1stPCR#5

Number of peaks found: 5 Noise: 33.7

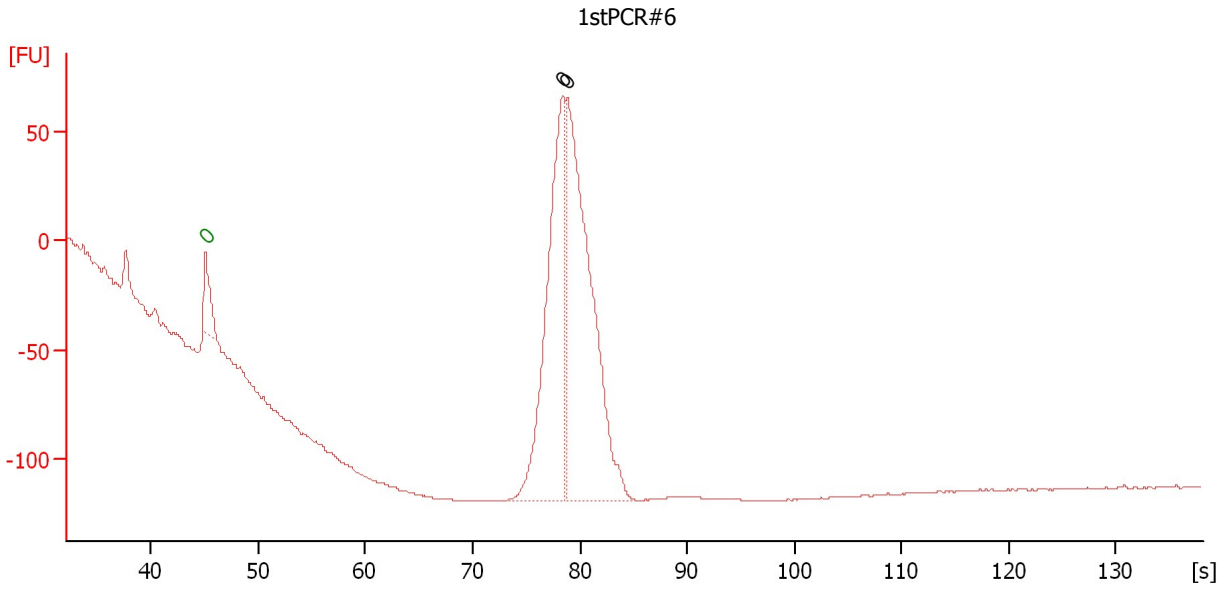
Peak table for sample 6 : 1stPCR#5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		34.10
2	0	0.00	0.0		35.30
3	0	0.00	0.0		35.90
4	0	0.00	0.0		37.75
5	0	0.00	0.0	Lower Marker	39.75
6	0	0.00	0.0		40.95

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1stPCR#6

Number of peaks found: 2 Noise: 0.2

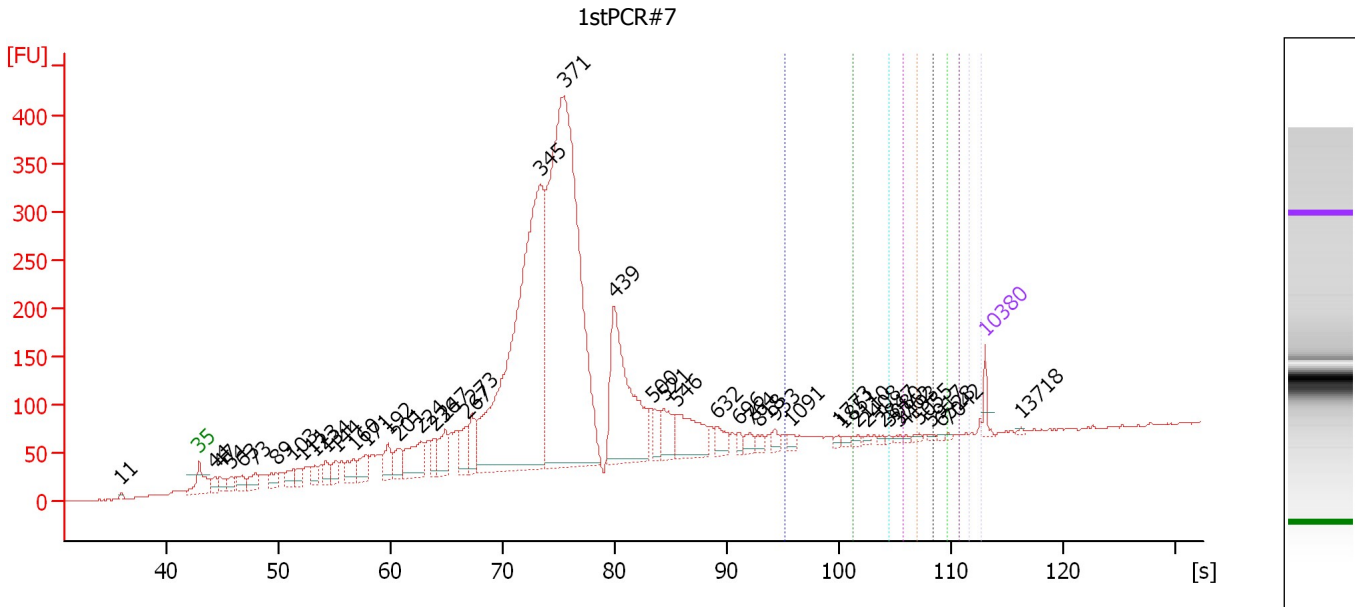
Peak table for sample 7 : 1stPCR#6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	45.10
2	0	0.00	0.0		78.40
3	0	0.00	0.0		78.75

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1stPCR#7

Number of peaks found:	46	Corr. Area 5:	9.7
Noise:	0.7	Corr. Area 6:	8.0
Corr. Area 1:	86.7	Corr. Area 7:	5.3
Corr. Area 2:	30.6	Corr. Area 8:	4.8
Corr. Area 3:	11.0	Corr. Area 9:	6.5
Corr. Area 4:	9.5		

Peak table for sample 8 : 1stPCR#7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	11	0.00	0.0		36.06
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	132.55	4,557.0		44.44
4	47	106.63	3,452.9		44.87
5	54	107.87	3,005.1		45.87
6	63	147.92	3,567.2		46.83
7	73	160.94	3,342.4		47.98
8	89	137.19	2,324.6		49.84
9	103	159.65	2,338.0		51.37
10	111	125.74	1,709.5		52.14
11	123	118.44	1,454.1		53.29
12	134	148.48	1,674.1		54.34
13	144	163.58	1,722.8		55.25
14	160	207.05	1,961.6		56.78
15	171	235.59	2,087.3		57.83
16	192	209.76	1,653.8		59.84
17	201	208.75	1,571.4		60.70
18	224	440.31	2,977.8		62.81
19	236	165.34	1,059.5		63.96
20	247	284.87	1,749.0		64.91
21	267	246.66	1,400.0		66.78

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Electropherogram Summary Continued ...

... Peak table for sample 8 : 1stPCR#7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
22	273	273.59	1,520.4		67.31
23	345	5,037.77	22,148.5		73.38
24	371	6,015.38	24,558.3		75.49
25	439	1,505.08	5,196.0		79.99
26	500	186.79	566.4		83.43
27	521	258.50	752.1		84.44
28	546	467.67	1,297.9		85.63
29	632	123.78	296.8		89.17
30	696	53.90	117.3		91.13
31	764	74.16	147.2		92.09
32	818	55.16	102.2		92.81
33	933	57.50	93.3		94.34
34	1,091	39.84	55.3		95.78
35	1,773	21.84	18.7		99.94
36	1,851	23.25	19.0		100.42
37	2,110	25.71	18.5		101.66
38	2,408	17.46	11.0		102.57
39	2,847	18.24	9.7		103.91
40	3,080	12.84	6.3		104.48
41	3,762	15.93	6.4		105.39
42	4,193	11.65	4.2		105.97
43	5,055	18.56	5.6		107.11
44	5,917	13.63	3.5		108.26
45	6,528	9.27	2.2		109.08
46	7,042	9.58	2.1		109.75
47	10,380	75.00	10.9	Upper Marker	113.00
48	13,718	0.00	0.0		116.25

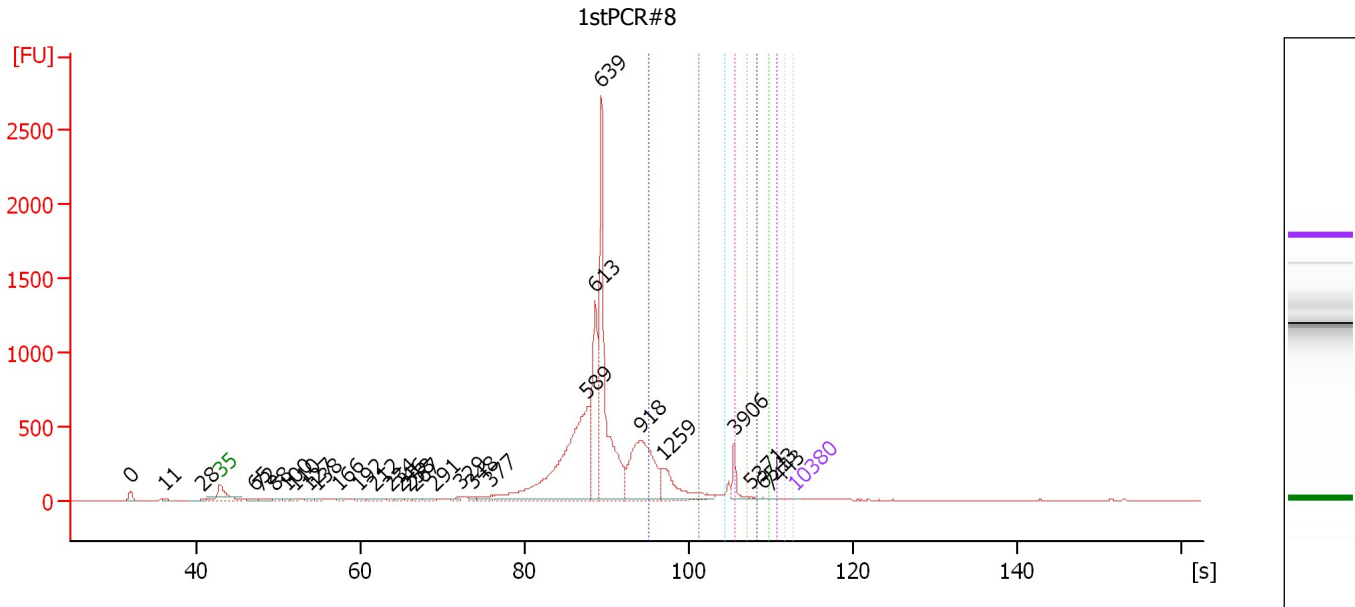
Region table for sample 8 : 1stPCR#7

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,448	250.55	86.7	262.2	2	20.1
2,000	3,000	2,467	83.06	30.6	51.0	1	11.8
3,000	4,000	3,469	30.05	11.0	13.1	0	8.8
4,000	5,000	4,451	26.13	9.5	8.9	0	6.6
5,000	6,000	5,438	26.73	9.7	7.4	0	5.7
6,000	7,000	6,446	22.41	8.0	5.3	0	4.7
7,000	8,000	7,431	14.80	5.3	3.0	0	4.4
8,000	9,000	8,469	12.98	4.8	2.3	0	3.5
9,000	10,000	9,571	17.19	6.5	2.7	0	3.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 1stPCR#8

Number of peaks found:	30	Corr. Area 5:	20.6
Noise:	0.8	Corr. Area 6:	16.4
Corr. Area 1:	764.7	Corr. Area 7:	10.7
Corr. Area 2:	103.7	Corr. Area 8:	9.9
Corr. Area 3:	152.8	Corr. Area 9:	8.9
Corr. Area 4:	63.5		

Peak table for sample 9 : 1stPCR#8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		32.07
2	11	0.00	0.0		36.23
3	28	0.00	0.0		40.92
4	35	125.00	5,411.3	Lower Marker	43.00
5	65	1,025.62	23,828.1		47.10
6	72	1,073.12	22,731.2		47.81
7	88	614.28	10,625.0		49.64
8	100	446.88	6,753.0		51.07
9	110	441.94	6,100.6		51.98
10	127	533.63	6,346.6		53.67
11	138	509.40	5,582.9		54.71
12	166	305.24	2,782.4		57.38
13	192	511.89	4,034.1		59.85
14	212	502.87	3,586.5		61.74
15	234	299.74	1,944.7		63.69
16	246	232.96	1,433.7		64.86
17	258	243.73	1,430.5		65.96
18	267	292.57	1,662.9		66.75
19	291	577.10	3,002.8		69.02
20	329	659.56	3,037.1		72.14
21	348	653.13	2,844.6		73.64

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : 1stPCR#8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
22	377	1,503.09	6,035.1		75.98
23	589	55,303.63	142,170.7		87.69
24	613	22,169.49	54,766.7		88.60
25	639	48,767.83	115,650.8		89.38
26	918	26,450.26	43,662.6		94.13
27	1,259	10,136.67	12,201.0		96.80
28	3,906	3,007.47	1,166.7		105.58
29	5,371	247.84	69.9		107.54
30	6,543	209.47	48.5		109.10
31	7,443	134.57	27.4		110.14
32	10,380	75.00	10.9	Upper Marker	113.00

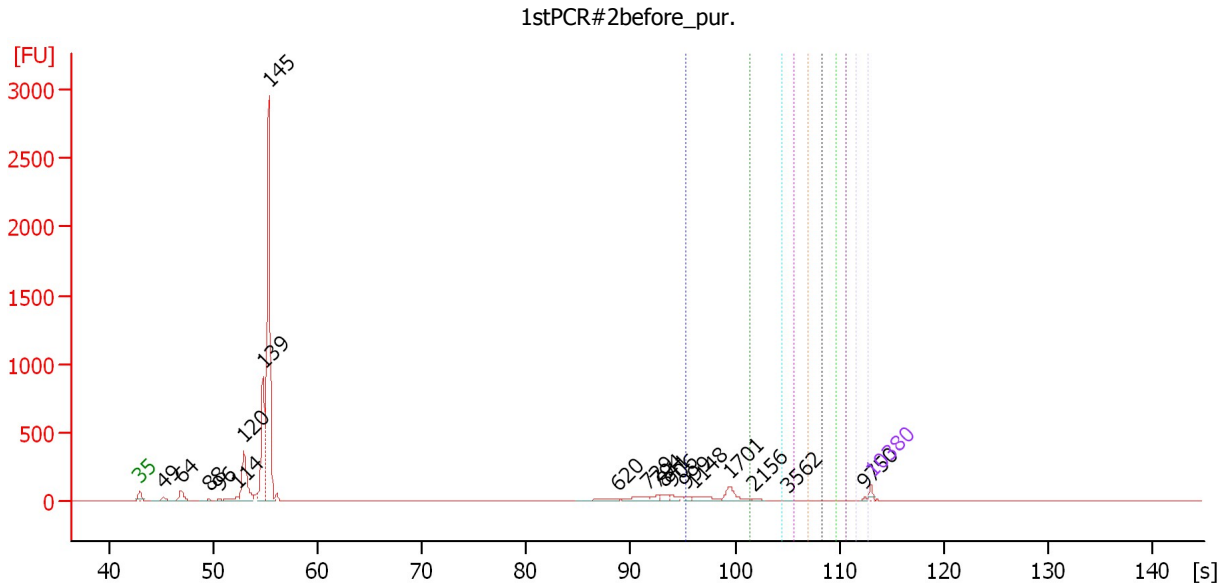
Region table for sample 9 : 1stPCR#8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
1,000	2,000	1,317	15,572.76	764.7	17,912.2	9	19.5
2,000	3,000	2,455	1,949.74	103.7	1,203.3	1	11.8
3,000	4,000	3,647	2,893.07	152.8	1,201.9	2	7.7
4,000	5,000	4,186	1,206.00	63.5	436.5	1	6.5
5,000	6,000	5,420	395.75	20.6	110.6	0	5.7
6,000	7,000	6,437	317.35	16.4	74.7	0	4.5
7,000	8,000	7,406	206.31	10.7	42.2	0	4.1
8,000	9,000	8,404	186.42	9.9	33.6	0	3.7
9,000	10,000	9,397	164.43	8.9	26.5	0	3.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : 1stPCR#2before_pur.

Number of peaks found:	19	Corr. Area 5:	2.6
Noise:	0.4	Corr. Area 6:	1.8
Corr. Area 1:	208.7	Corr. Area 7:	0.9
Corr. Area 2:	16.6	Corr. Area 8:	0.7
Corr. Area 3:	4.2	Corr. Area 9:	9.0
Corr. Area 4:	2.8		

Peak table for sample 10 : 1stPCR#2before_pur.

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	49	141.83	4,366.2		45.25
3	64	394.90	9,379.3		46.94
4	88	71.11	1,228.5		49.65
5	96	53.05	835.0		50.62
6	114	175.31	2,335.9		52.36
7	120	1,585.06	19,994.3		52.97
8	139	2,614.85	28,549.6		54.76
9	145	6,915.25	72,441.5		55.32
10	620	120.73	294.9		88.81
11	729	179.79	373.9		91.63
12	794	97.54	186.1		92.50
13	841	90.02	162.3		93.11
14	906	91.42	152.9		93.98
15	999	69.29	105.1		95.21
16	1,148	159.01	209.8		96.13
17	1,701	252.43	224.8		99.50
18	2,156	22.34	15.7		101.80
19	3,562	8.88	3.8		105.13
20	9,750	19.16	3.0		112.39
21	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Electropherogram Summary Continued ...

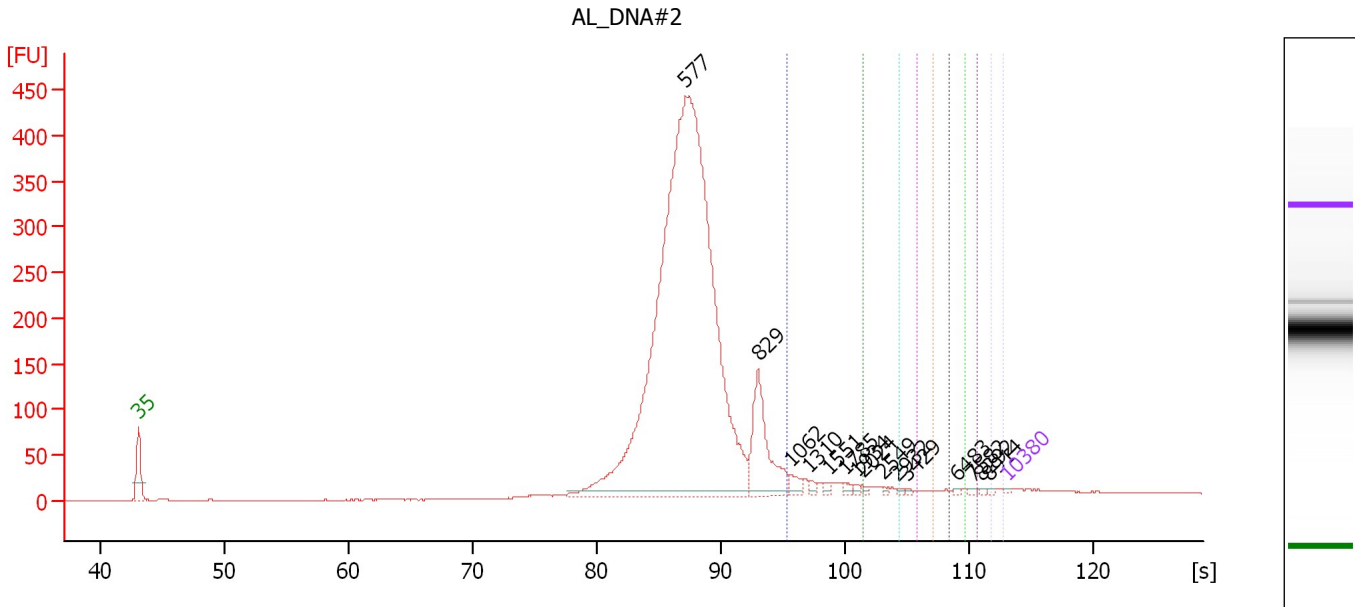
... Region table for sample 10 : 1stPCR#2before_pur.

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ μ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,513	434.65	208.7	435.4	6	18.1
2,000	3,000	2,373	32.66	16.6	20.8	0	12.0
3,000	4,000	3,440	8.31	4.2	3.7	0	8.3
4,000	5,000	4,447	5.55	2.8	1.9	0	6.8
5,000	6,000	5,423	5.30	2.6	1.5	0	5.8
6,000	7,000	6,429	3.70	1.8	0.9	0	4.8
7,000	8,000	7,413	1.76	0.9	0.4	0	4.2
8,000	9,000	8,425	1.36	0.7	0.2	0	3.5
9,000	10,000	9,711	17.39	9.0	2.7	0	2.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : AL_DNA#2

Number of peaks found:	15	Corr. Area 5:	6.9
Noise:	0.5	Corr. Area 6:	7.8
Corr. Area 1:	107.3	Corr. Area 7:	5.7
Corr. Area 2:	28.9	Corr. Area 8:	5.9
Corr. Area 3:	8.6	Corr. Area 9:	5.3
Corr. Area 4:	6.6		

Peak table for sample 11 : AL_DNA#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	577	95,359.88	250,340.4		87.11
3	829	7,510.09	13,726.7		92.96
4	1,062	765.43	1,092.4		95.60
5	1,310	317.82	367.6		97.11
6	1,551	265.42	259.3		98.58
7	1,785	265.06	225.0		100.01
8	1,934	204.03	159.8		100.92
9	2,024	162.49	121.6		101.40
10	2,549	122.10	72.6		103.00
11	2,932	113.32	58.6		104.17
12	3,429	88.20	39.0		104.95
13	6,483	81.43	19.0		109.02
14	7,582	130.32	26.0		110.27
15	8,292	101.66	18.6		110.97
16	8,914	76.88	13.1		111.57
17	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 AM

Electropherogram Summary Continued ...

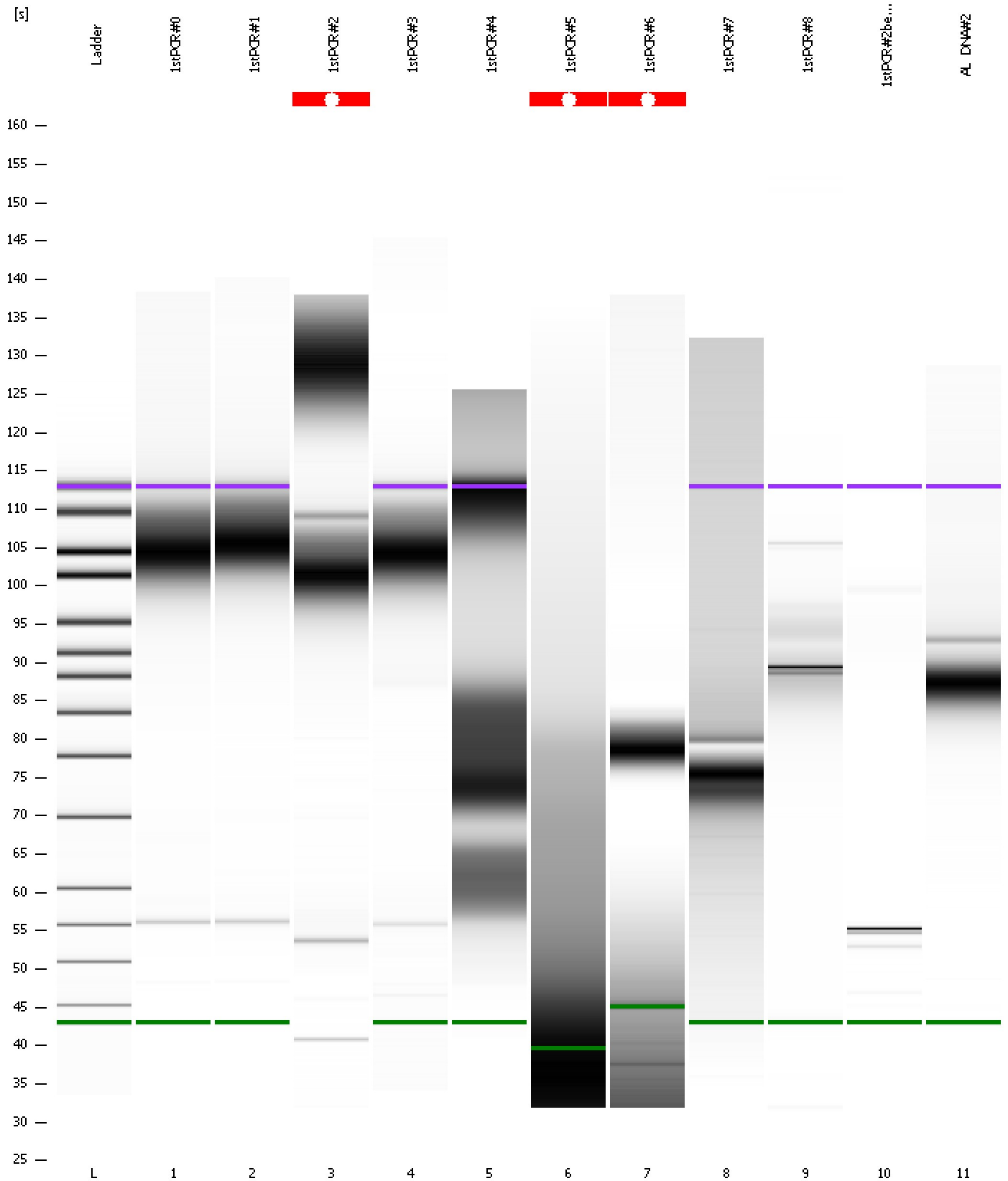
... Region table for sample 11 : AL_DNA#2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
1,000	2,000	1,423	3,020.76	107.3	3,216.8	3	20.7
2,000	3,000	2,452	762.08	28.9	471.0	1	11.9
3,000	4,000	3,454	229.00	8.6	100.5	0	8.6
4,000	5,000	4,470	175.49	6.6	59.5	0	6.5
5,000	6,000	5,470	185.90	6.9	51.5	0	5.5
6,000	7,000	6,479	211.19	7.8	49.4	0	4.5
7,000	8,000	7,457	154.31	5.7	31.4	0	3.9
8,000	9,000	8,437	154.91	5.9	27.8	0	3.6
9,000	10,000	9,452	138.24	5.3	22.2	0	3.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Gel Image

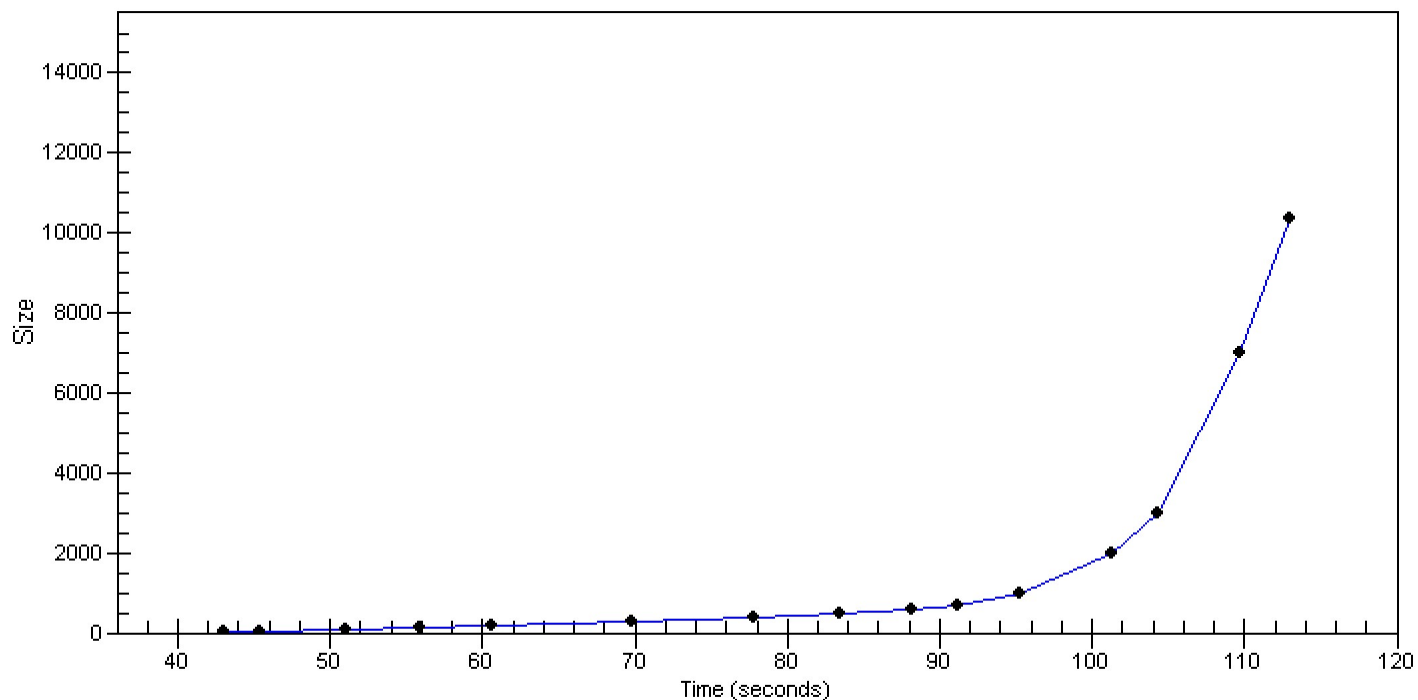


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
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Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-09\2019-07-09_001.xad

Created: 7/9/2019 10:23:36 AM
 Modified: 7/9/2019 11:27:15 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		7/9/2019 11:04:52 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\2019-07-09\2019-07-09_001.xad)		Instrument	Run		7/9/2019 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/9/2019 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/9/2019 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/9/2019 10:23:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/9/2019 10:23:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/9/2019 10:23:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/9/2019 10:23:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1