

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad

Created: 8/29/2019 1:13:53 PM
Modified: 8/29/2019 2:01:22 PM

Electrophoresis File Run Summary

Instrument Information:

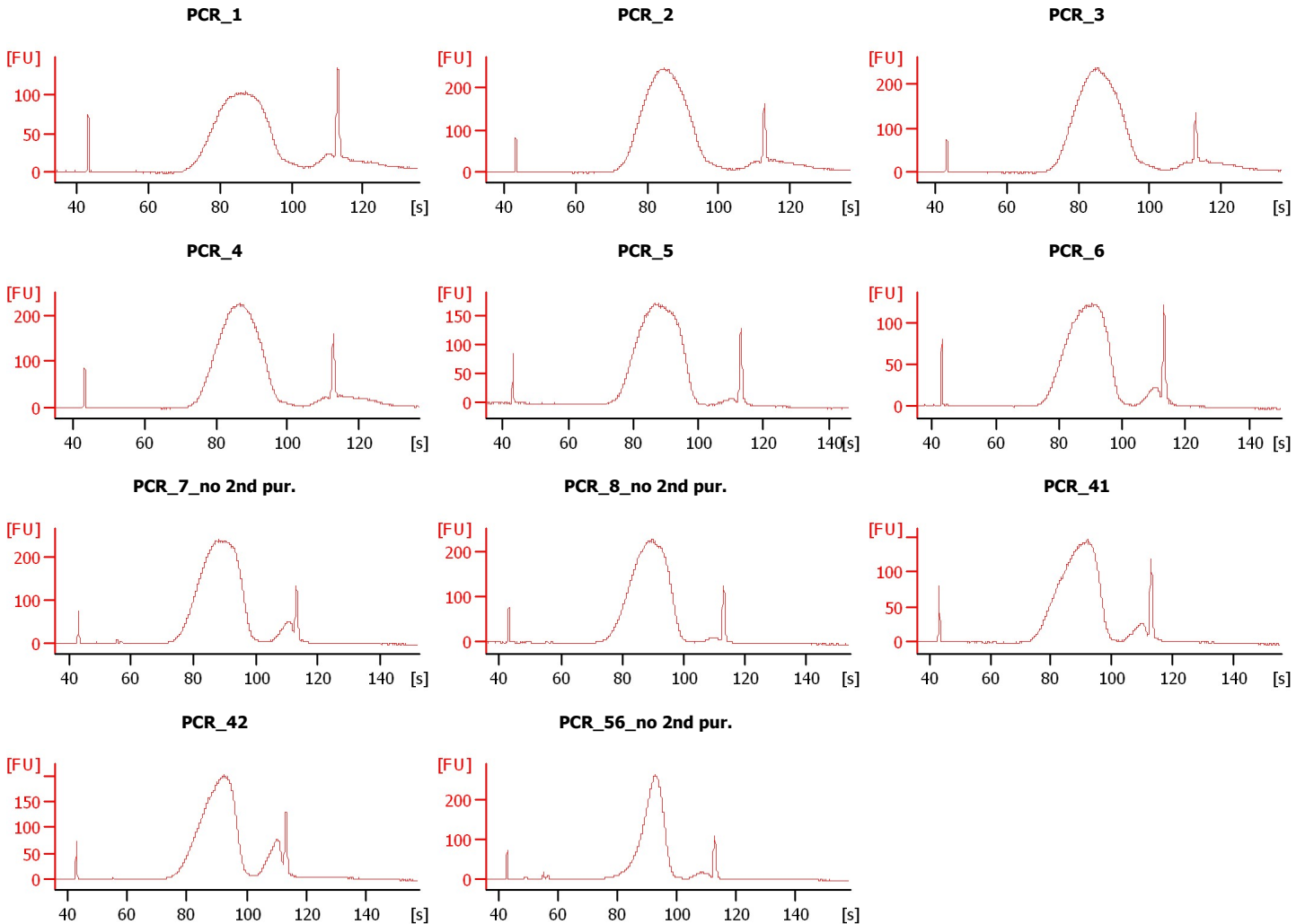
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
PCR_1		<input type="checkbox"/>	✓			
PCR_2		<input type="checkbox"/>	✓			
PCR_3		<input type="checkbox"/>	✓			
PCR_4		<input type="checkbox"/>	✓			
PCR_5		<input type="checkbox"/>	✓			
PCR_6		<input type="checkbox"/>	✓			
PCR_7_no 2nd pur.		<input type="checkbox"/>	✓			
PCR_8_no 2nd pur.		<input type="checkbox"/>	✓			
PCR_41		<input type="checkbox"/>	✓			
PCR_42		<input type="checkbox"/>	✓			
PCR_56_no 2nd pur.		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

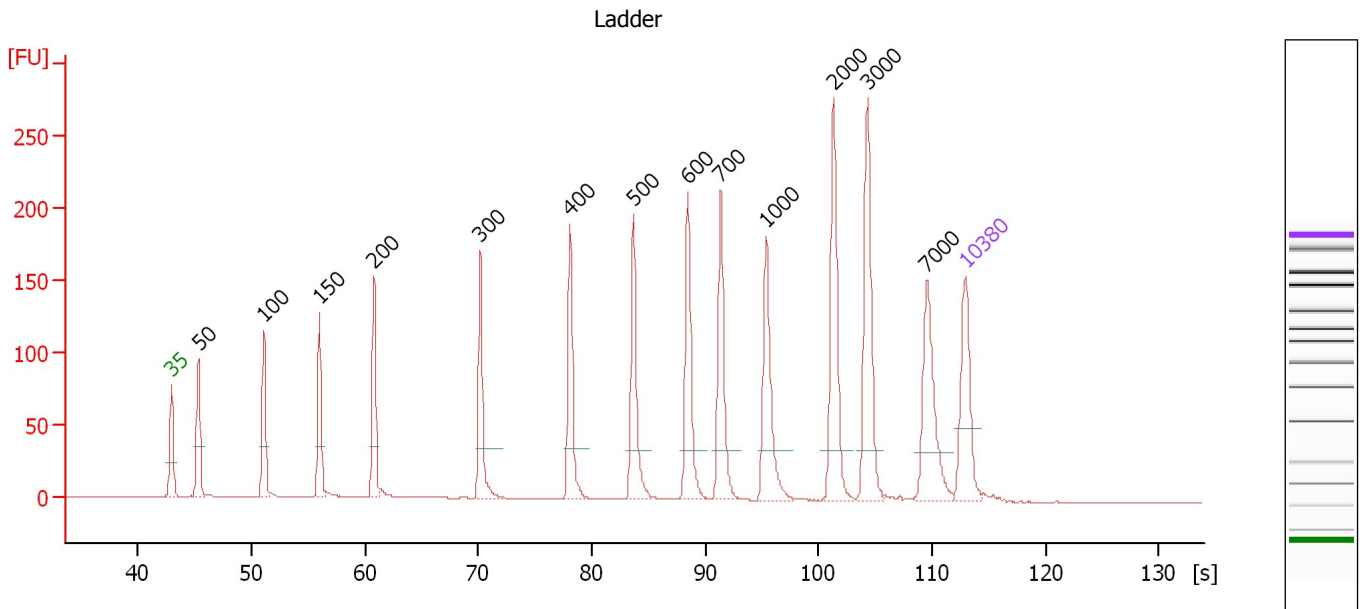
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

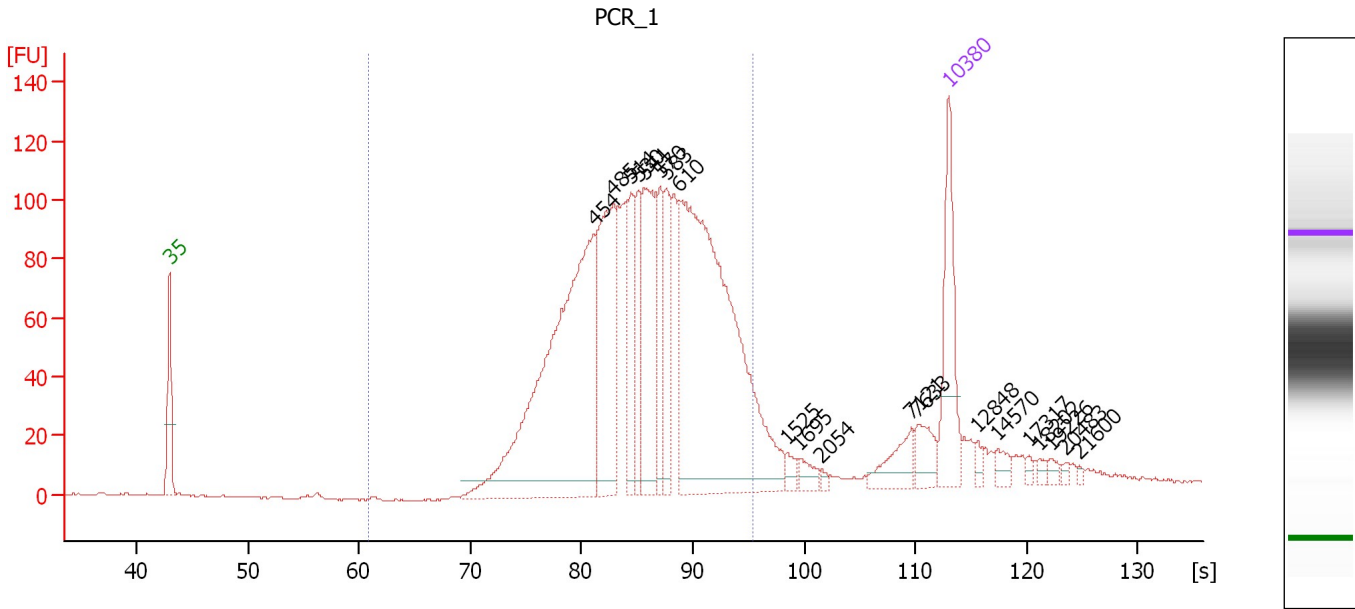
Peak table for Ladder

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	51.14
4	150	150.00	1,515.2	Ladder Peak	56.02
5	200	150.00	1,136.4	Ladder Peak	60.84
6	300	150.00	757.6	Ladder Peak	70.21
7	400	150.00	568.2	Ladder Peak	78.12
8	500	150.00	454.5	Ladder Peak	83.70
9	600	150.00	378.8	Ladder Peak	88.48
10	700	150.00	324.7	Ladder Peak	91.37
11	1,000	150.00	227.3	Ladder Peak	95.39
12	2,000	150.00	113.6	Ladder Peak	101.36
13	3,000	150.00	75.8	Ladder Peak	104.34
14	7,000	150.00	32.5	Ladder Peak	109.50
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : PCR_1

Number of peaks found: 20 Corr. Area 1: 1,971.8
 Noise: 0.3


Peak table for sample 1 : PCR_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	454	477.68	1,595.6		81.11
3	485	177.77	555.7		82.85
4	514	69.28	204.0		84.39
5	530	63.55	181.8		85.12
6	541	130.13	364.7		85.65
7	570	64.74	172.1		87.05
8	583	63.11	164.0		87.67
9	610	504.15	1,251.5		88.78
10	1,525	9.41	9.3		98.53
11	1,695	11.04	9.9		99.54
12	2,054	2.75	2.0		101.52
13	7,121	29.08	6.2		109.62
14	7,633	23.73	4.7		110.15
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,848	0.00	0.0		115.56
17	14,570	0.00	0.0		117.34
18	17,317	0.00	0.0		120.19
19	18,202	0.00	0.0		121.10
20	19,226	0.00	0.0		122.17
21	20,483	0.00	0.0		123.47
22	21,600	0.00	0.0		124.63

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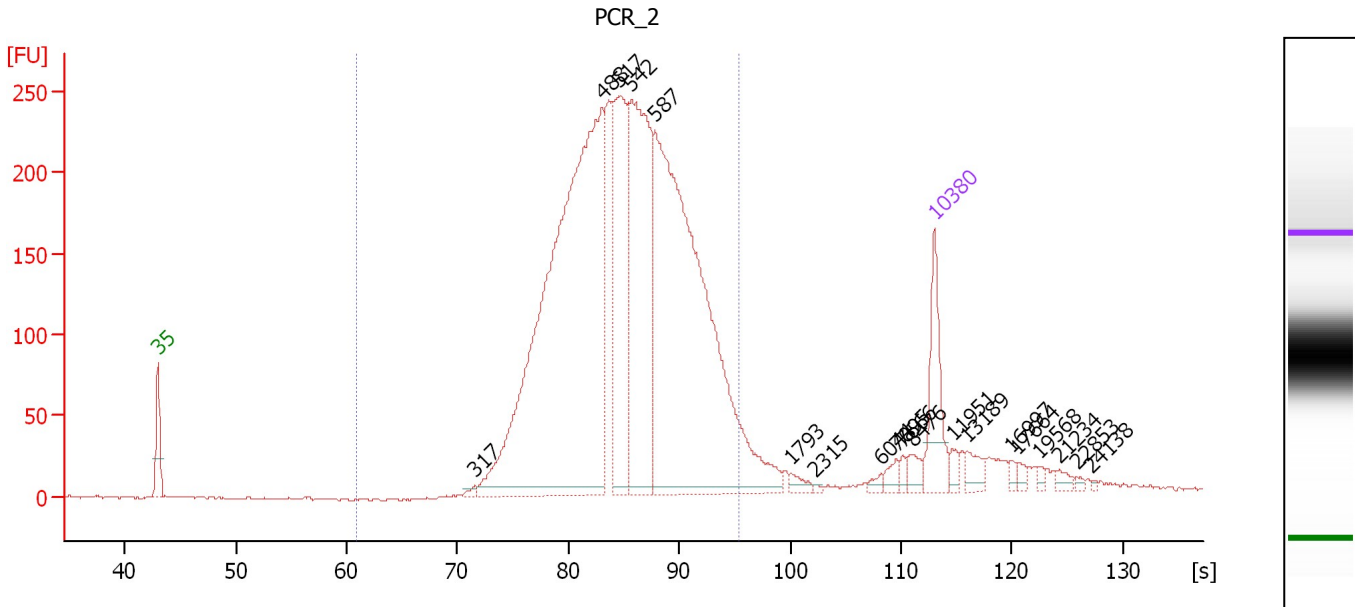
Electropherogram Summary Continued ...**... Region table for sample 1 : PCR_1**

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	562	1,598.69	1,971.8	4,670.7	 88	25.7

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Electropherogram Summary Continued ...



Overall Results for sample 2 : PCR_2

Number of peaks found: 19 Corr. Area 1: 4,175.8
 Noise: 0.6

Peak table for sample 2 : PCR_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	317	6.70	32.0		71.56
3	488	1,167.67	3,622.3		83.06
4	517	287.00	840.4		84.54
5	542	413.17	1,154.6		85.72
6	587	881.48	2,276.9		87.84
7	1,793	9.75	8.2		100.12
8	2,315	2.18	1.4		102.30
9	6,044	5.89	1.5		108.26
10	7,095	11.59	2.5		109.60
11	7,666	6.64	1.3		110.19
12	8,476	14.90	2.7		111.03
13	10,380	75.00	10.9	Upper Marker	113.00
14	11,951	0.00	0.0		114.63
15	13,189	0.00	0.0		115.91
16	16,997	0.00	0.0		119.86
17	17,664	0.00	0.0		120.55
18	19,568	0.00	0.0		122.52
19	21,234	0.00	0.0		124.25
20	22,853	0.00	0.0		125.92
21	24,138	0.00	0.0		127.26

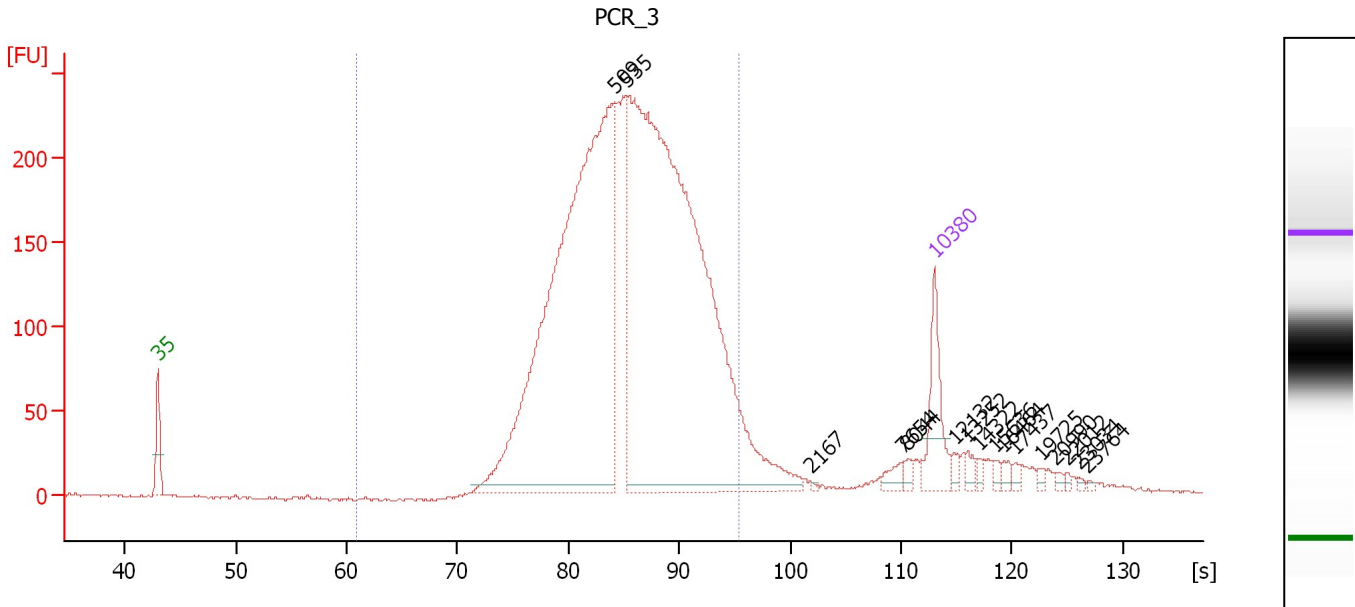
Region table for sample 2 : PCR_2

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
60.84	95.39	546	2,803.57	4,175.8	8,305.4	92	23.6

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Electropherogram Summary Continued ...



Overall Results for sample 3 : PCR_3

Number of peaks found: 16 Corr. Area 1: 4,025.4
 Noise: 0.8

Peak table for sample 3 : PCR_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	509	1,371.72	4,080.0		84.15
3	535	1,699.79	4,816.4		85.36
4	2,167	2.27	1.6		101.85
5	7,654	15.47	3.1		110.18
6	8,044	9.61	1.8		110.58
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,132	0.00	0.0		114.82
9	13,252	0.00	0.0		115.98
10	14,322	0.00	0.0		117.09
11	15,636	0.00	0.0		118.45
12	16,464	0.00	0.0		119.30
13	17,437	0.00	0.0		120.31
14	19,725	0.00	0.0		122.68
15	20,990	0.00	0.0		123.99
16	22,012	0.00	0.0		125.05
17	23,034	0.00	0.0		126.11
18	23,764	0.00	0.0		126.87

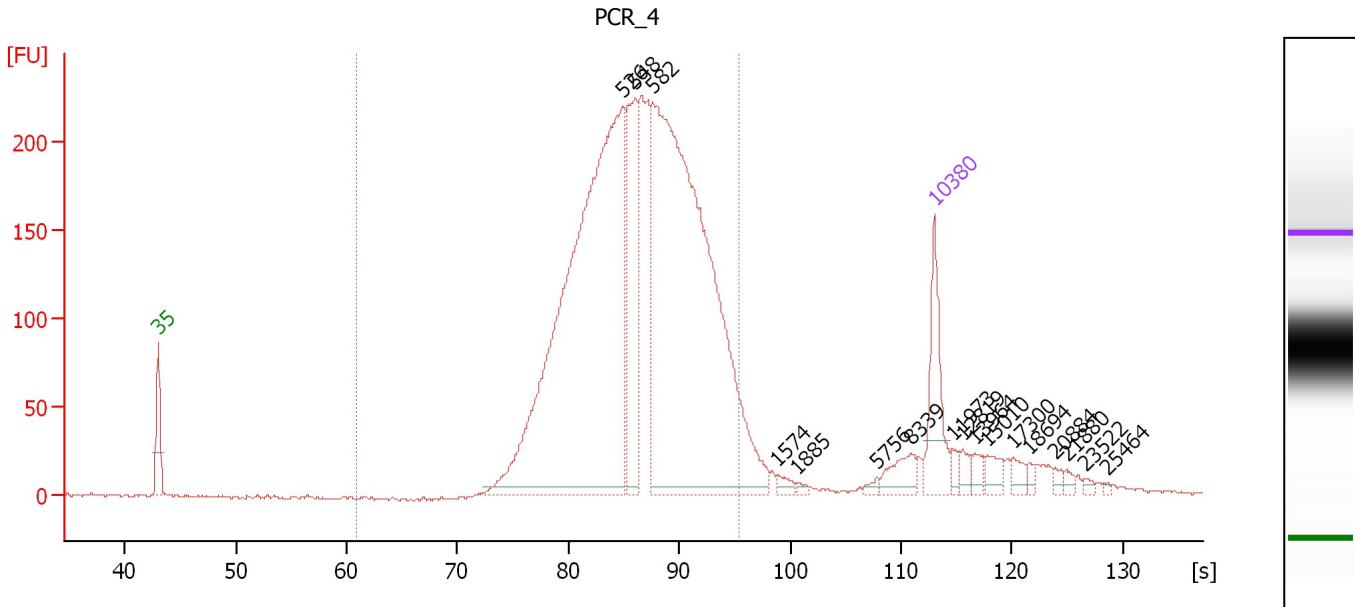
Region table for sample 3 : PCR_3

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	557	3,191.33	4,025.4	9,300.7	90	24.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : PCR_4

Number of peaks found: 17 Corr. Area 1: 3,634.9
 Noise: 0.8

Peak table for sample 4 : PCR_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	526	1,063.91	3,065.6		84.94
3	548	200.43	553.7		86.02
4	582	1,005.30	2,617.4		87.62
5	1,574	8.85	8.5		98.81
6	1,885	3.34	2.7		100.67
7	5,756	5.51	1.5		107.89
8	8,339	29.04	5.3		110.89
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,973	0.00	0.0		114.65
11	12,819	0.00	0.0		115.53
12	13,964	0.00	0.0		116.71
13	15,010	0.00	0.0		117.80
14	17,300	0.00	0.0		120.17
15	18,694	0.00	0.0		121.61
16	20,884	0.00	0.0		123.88
17	21,880	0.00	0.0		124.92
18	23,522	0.00	0.0		126.62
19	25,464	0.00	0.0		128.63

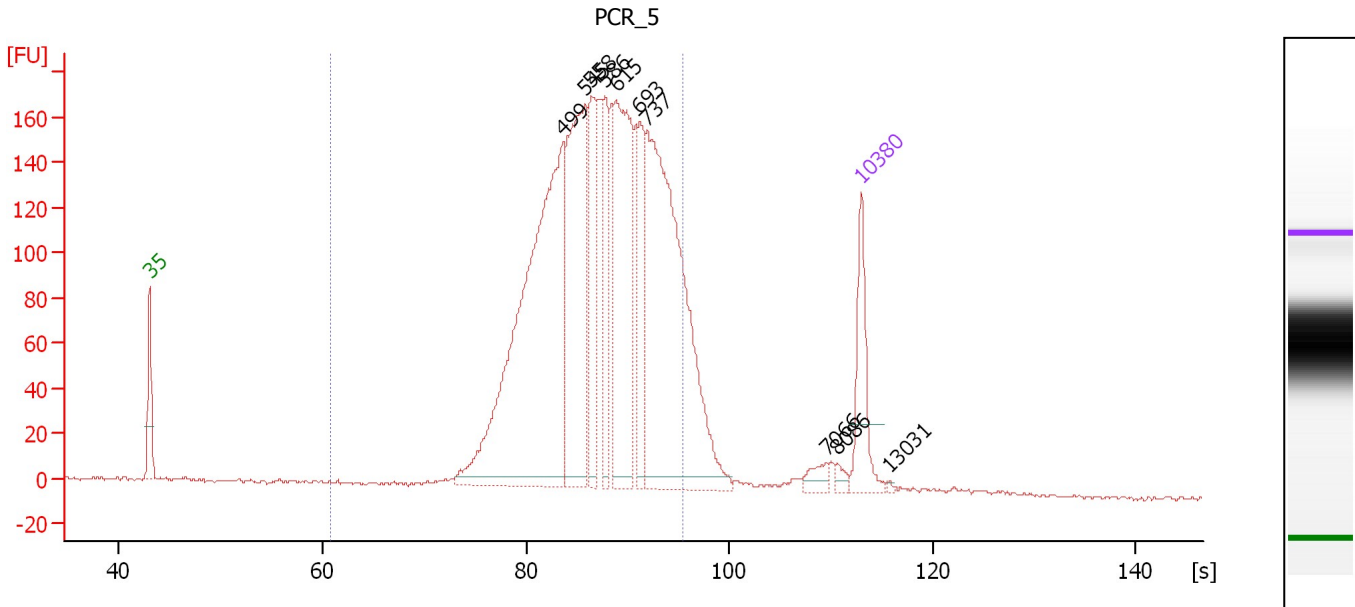
Region table for sample 4 : PCR_4

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60.84	95.39	576	2,476.19	3,634.9	6,957.3	88	23.5

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Electropherogram Summary Continued ...



Overall Results for sample 5 : PCR_5

Number of peaks found: 10 Corr. Area 1: 2,957.1
 Noise: 0.6

Peak table for sample 5 : PCR_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	499	731.79	2,223.6		83.63
3	545	340.81	947.8		85.85
4	558	143.61	389.9		86.48
5	586	105.16	272.0		87.80
6	615	285.80	704.4		88.91
7	693	120.33	262.9		91.18
8	737	594.17	1,221.4		91.87
9	7,066	15.59	3.3		109.57
10	8,086	9.07	1.7		110.62
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,031	0.00	0.0		115.75

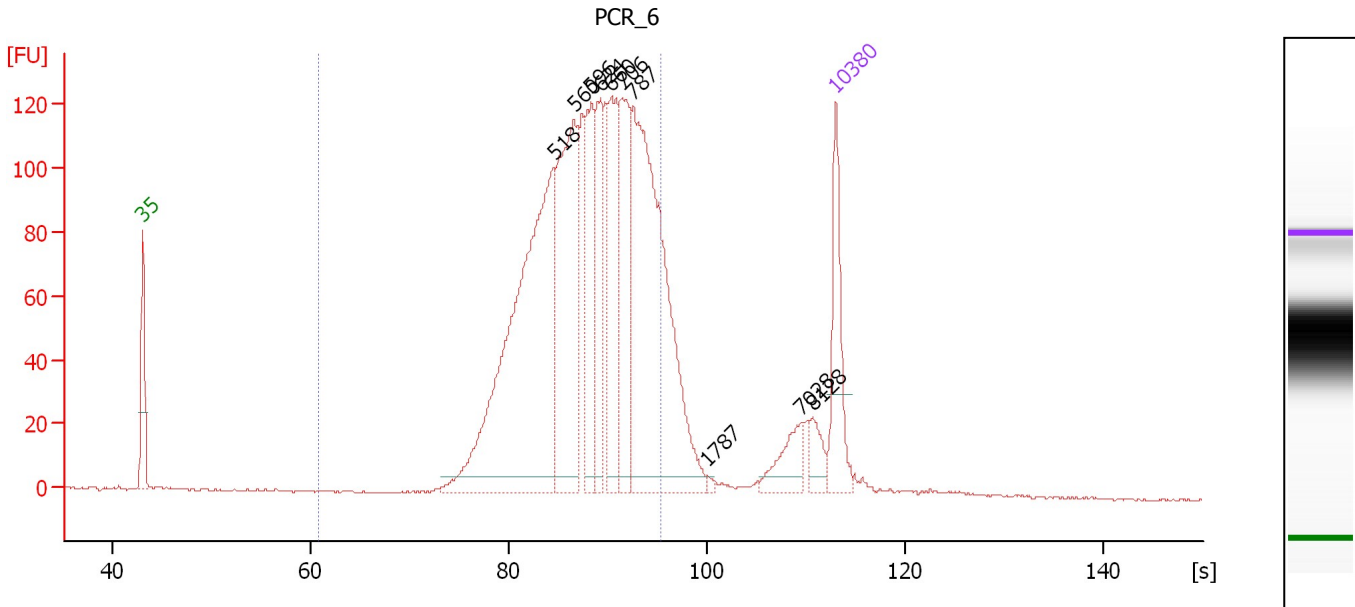
Region table for sample 5 : PCR_5

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	603	2,378.77	2,957.1	6,460.7	91	25.1

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : PCR_6

Number of peaks found: 10 Corr. Area 1: 1,986.2
 Noise: 0.2

Peak table for sample 6 : PCR_6

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	518	568.93	1,664.0		84.57
3	560	268.72	727.0		86.57
4	596	119.76	304.3		88.31
5	624	107.68	261.4		89.18
6	660	150.11	344.7		90.21
7	706	149.98	321.6		91.46
8	787	462.99	890.9		92.54
9	1,787	2.53	2.1		100.09
10	7,028	40.04	8.6		109.53
11	8,128	22.77	4.2		110.67
12	10,380	75.00	10.9	Upper Marker	113.00

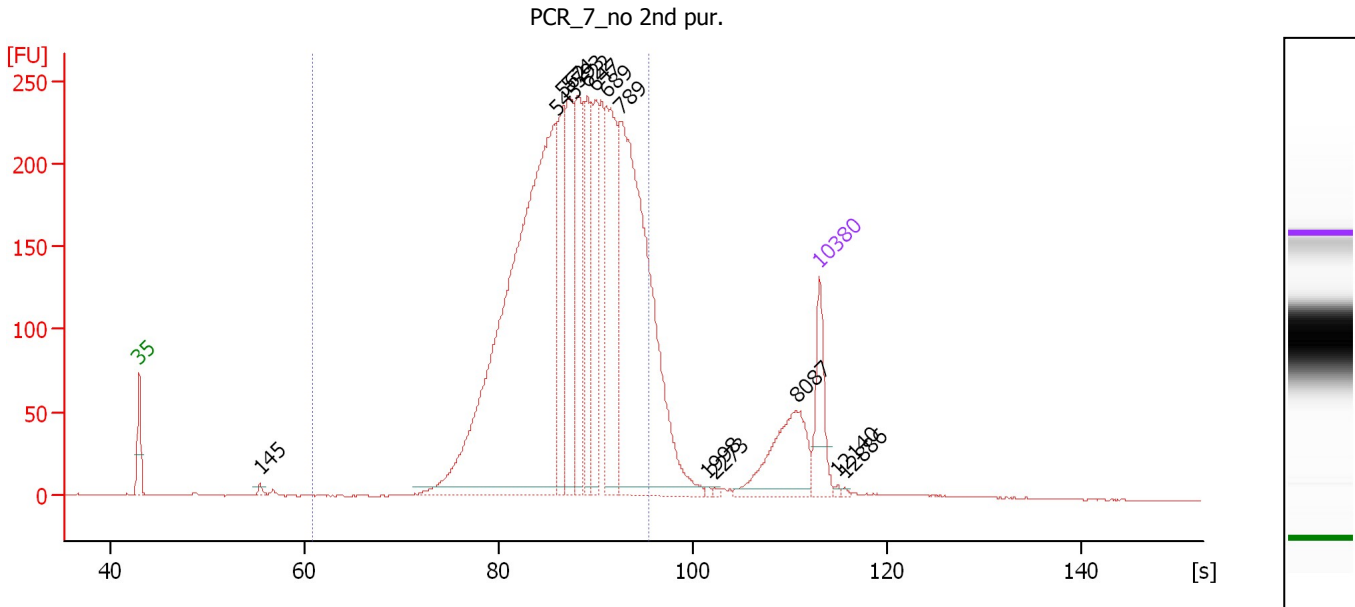
Region table for sample 6 : PCR_6

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	622	1,852.26	1,986.2	4,863.3	86	24.7

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Electropherogram Summary Continued ...



Overall Results for sample 7 : PCR_7_no 2nd pur.

Number of peaks found: 14 Corr. Area 1: 3,923.2
 Noise: 0.3

Peak table for sample 7 : PCR_7_no 2nd 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	145	8.68	91.0		55.49
3	545	1,288.24	3,578.9		85.87
4	562	198.87	536.6		86.65
5	574	227.07	599.1		87.25
6	593	185.29	473.6		88.14
7	622	171.21	416.7		89.13
8	647	159.03	372.2		89.85
9	689	298.97	657.0		91.07
10	789	769.98	1,479.5		92.56
11	1,998	2.43	1.8		101.34
12	2,273	2.49	1.7		102.17
13	8,087	136.36	25.5		110.62
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,140	0.00	0.0		114.82
16	12,886	0.00	0.0		115.60

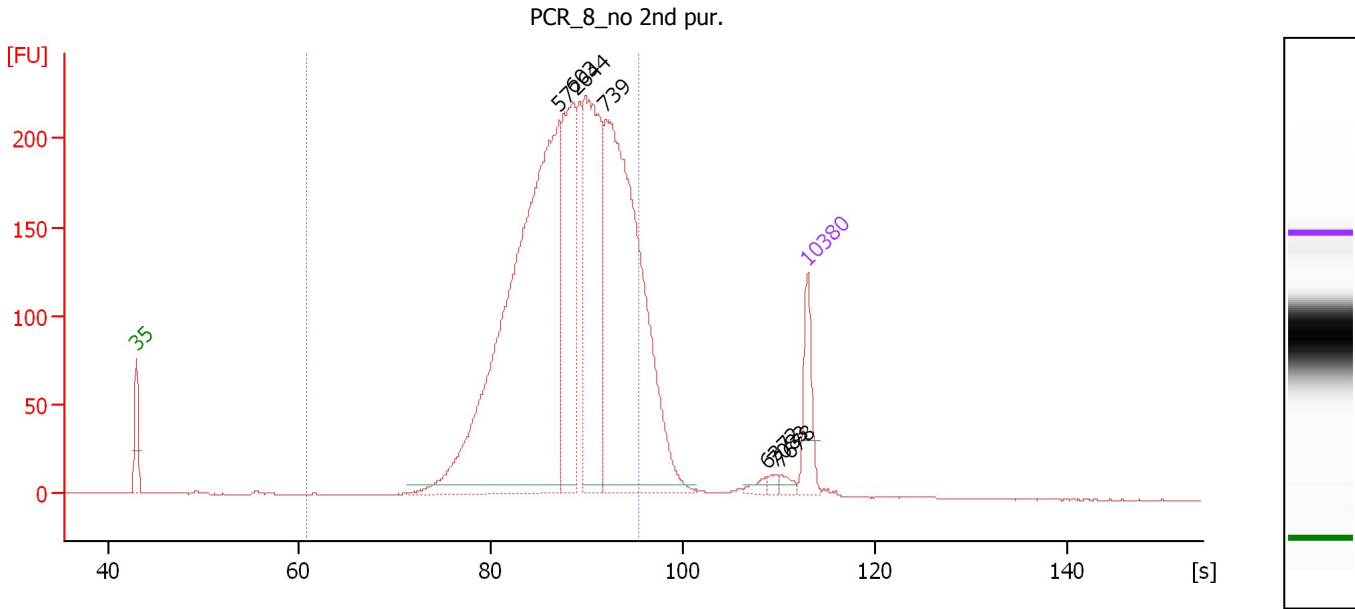
Region table for sample 7 : PCR_7_no 2nd pur.

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	614	3,356.72	3,923.2	8,947.9	87	24.7

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Electropherogram Summary Continued ...



Overall Results for sample 8 : PCR 8 no 2nd pur.

Number of peaks found: 7 Corr. Area 1: 3,368.2
 Noise: 0.3

Peak table for sample 8 : PCR 8 no 2nd 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	572	1,310.28	3,472.9		87.13
3	603	343.50	862.4		88.58
4	644	454.06	1,067.9		89.76
5	739	929.01	1,905.8		91.89
6	6,372	10.17	2.4		108.69
7	7,083	8.22	1.8		109.58
8	7,678	11.08	2.2		110.20
9	10,380	75.00	10.9	Upper Marker	113.00

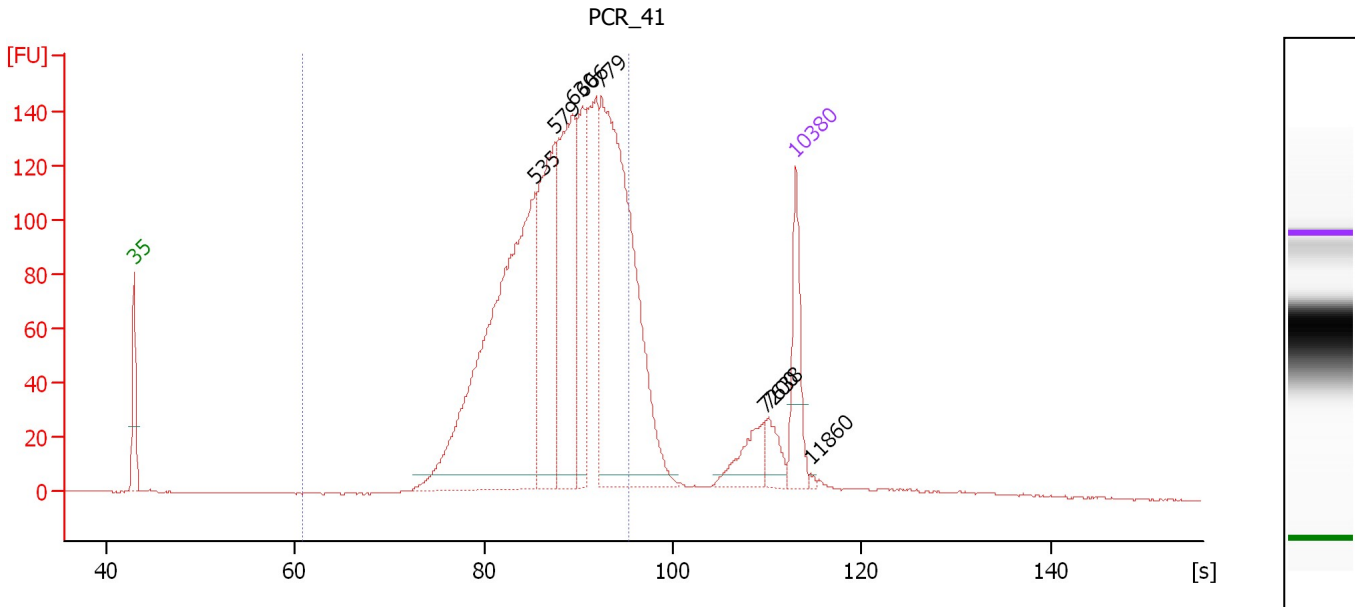
Region table for sample 8 : PCR 8 no 2nd pur.

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
60.84	95.39	626	3,039.33	3,368.2	7,919.3	90	24.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : PCR_41

Number of peaks found: 8 Corr. Area 1: 2,202.0
 Noise: 0.2

Peak table for sample 9 : PCR_41

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	535	717.23	2,030.4		85.39
3	579	276.69	723.8		87.49
4	630	276.74	665.1		89.36
5	666	165.84	377.3		90.39
6	779	599.64	1,166.1		92.43
7	7,200	49.82	10.5		109.70
8	7,638	29.05	5.8		110.16
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,860	0.00	0.0		114.53

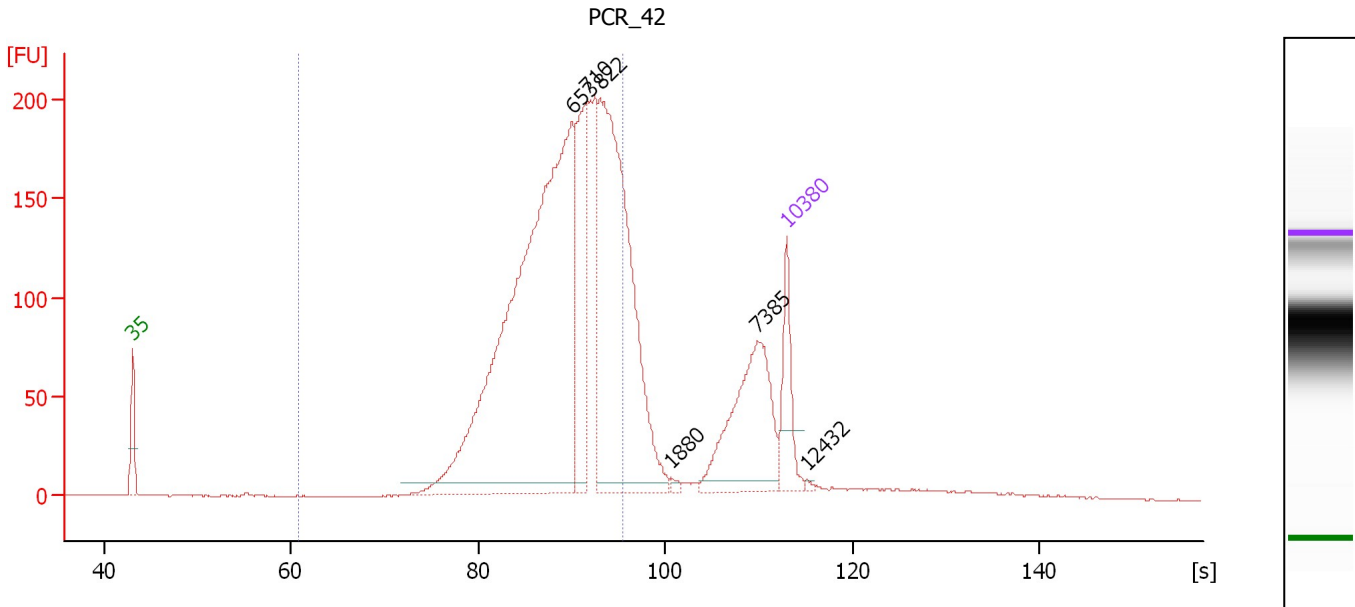
Region table for sample 9 : PCR_41

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	627	2,139.63	2,202.0	5,611.0	84	25.2

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Electropherogram Summary Continued ...



Overall Results for sample 10 : PCR_42

Number of peaks found: 6 Corr. Area 1: 2,639.3
 Noise: 0.2

Peak table for sample 10 : PCR_42

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	653	1,246.19	2,891.8		90.01
3	710	234.99	501.4		91.51
4	822	695.73	1,283.2		93.00
5	1,880	4.43	3.6		100.64
6	7,385	221.75	45.5		109.90
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,432	0.00	0.0		115.13

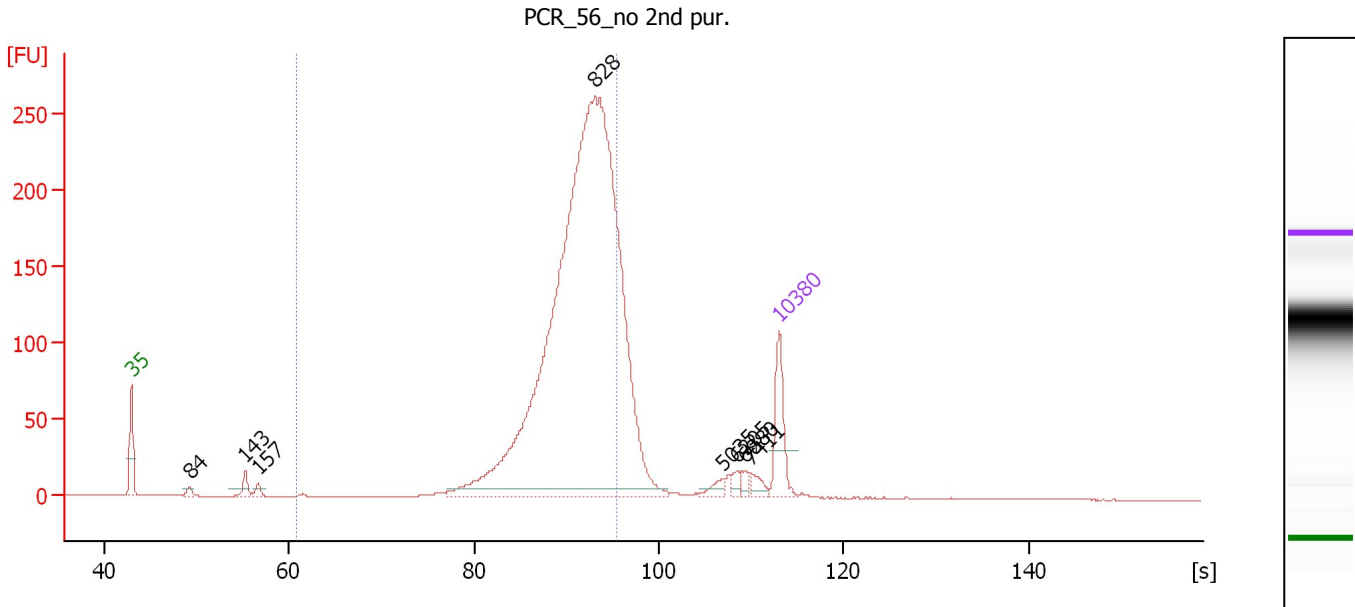
Region table for sample 10 : PCR_42

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	654	2,238.46	2,639.3	5,607.5	76	24.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad

Created: 8/29/2019 1:13:53 PM
 Modified: 8/29/2019 2:01:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : PCR_56_no 2nd pur.

Number of peaks found: 8 Corr. Area 1: 2,031.9
 Noise: 0.2

Peak table for sample 11 : PCR_56_no 2nd 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	84	13.04	235.7		49.27
3	143	26.17	277.8		55.31
4	157	14.35	138.5		56.70
5	828	2,136.17	3,907.5		93.09
6	5,035	14.74	4.4		106.96
7	6,205	10.95	2.7		108.47
8	6,880	11.19	2.5		109.34
9	7,411	16.40	3.4		109.92
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : PCR_56_no 2nd pur.

From [s]	To [s]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
60.84	95.39	728	1,943.24	2,031.9	4,276.2	81	20.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad

Created: 8/29/2019 1:13:53 PM
Modified: 8/29/2019 2:01:22 PM

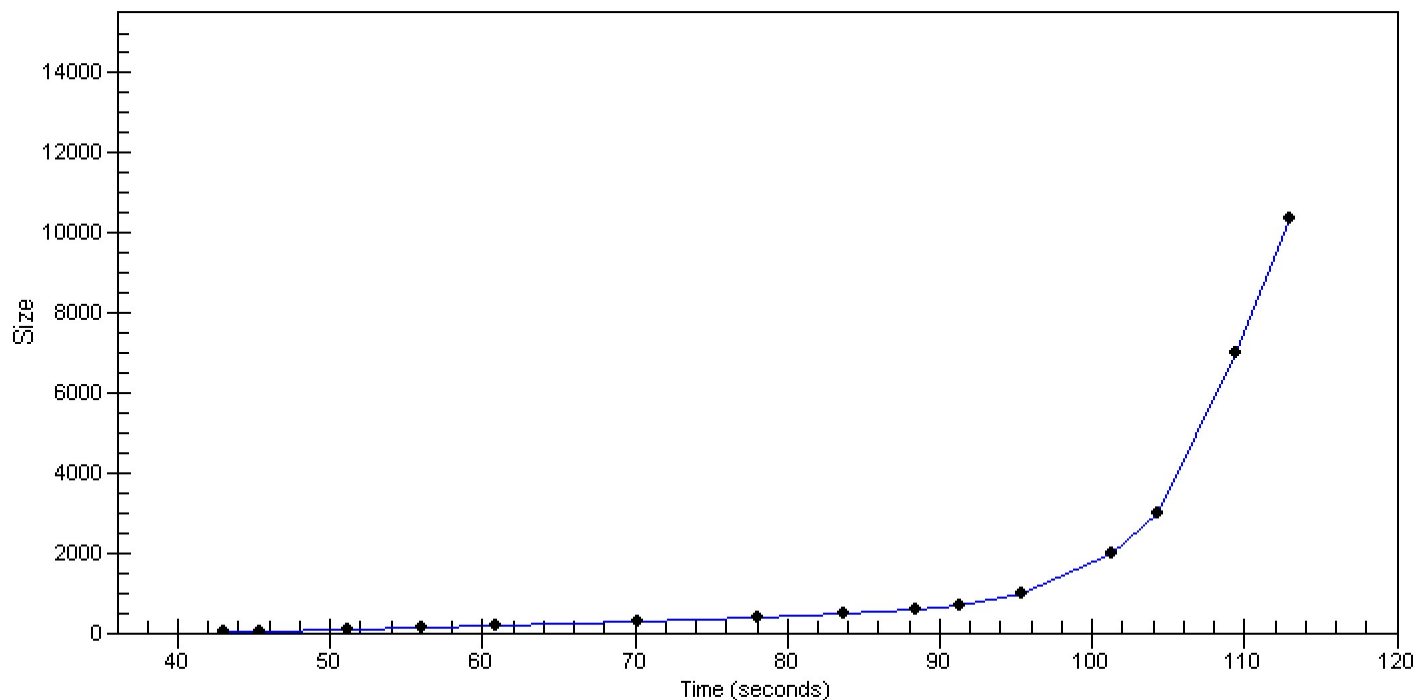
Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad

Created: 8/29/2019 1:13:53 PM
Modified: 8/29/2019 2:01:22 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad

Created: 8/29/2019 1:13:53 PM
 Modified: 8/29/2019 2:01:22 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		8/29/2019 1:55:12 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-29\2019-08-29_002.xad)		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/29/2019 1:13:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1