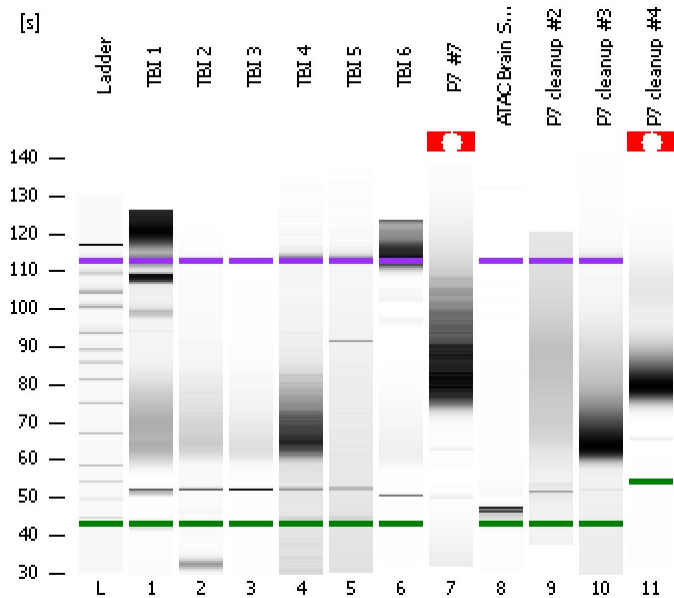


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
Modified: 5/8/2015 12:35:07 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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

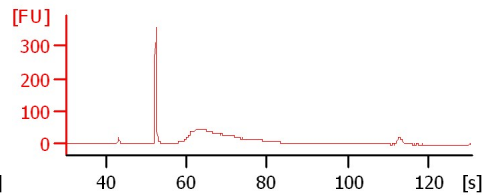
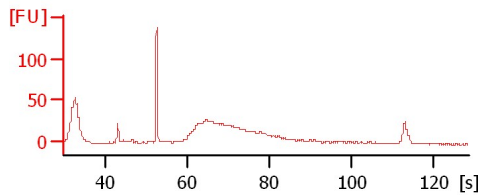
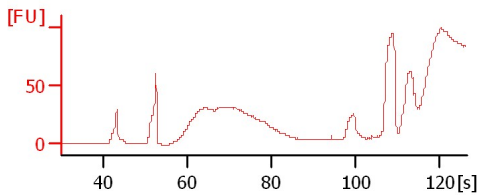
Chip Information:

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

TBI 1

TBI 2

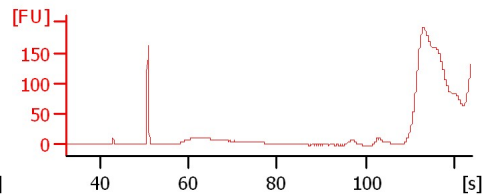
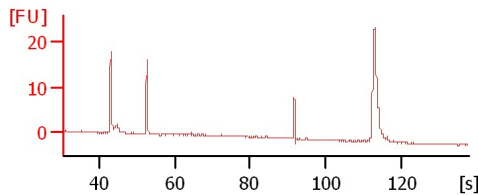
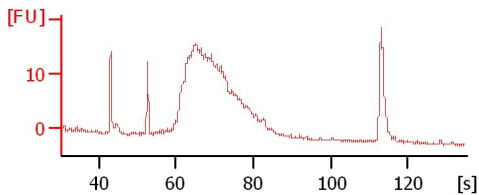
TBI 3



TBI 4

TBI 5

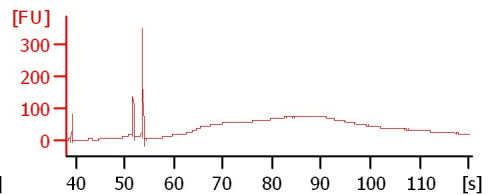
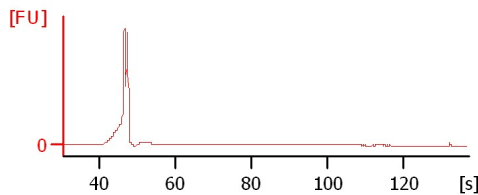
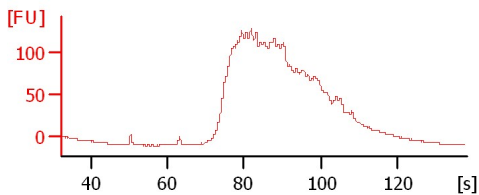
TBI 6



P7 #7

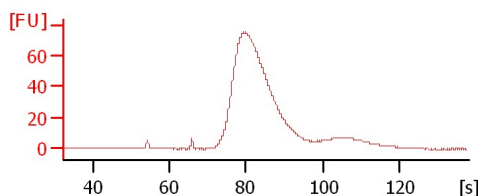
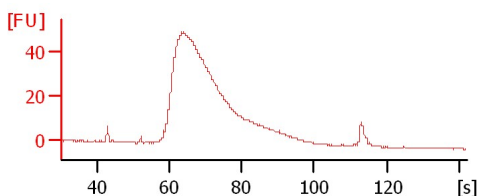
ATAC Brain Stem Practice

P7 cleanup #2



P7 cleanup #3

P7 cleanup #4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
Modified: 5/8/2015 12:35:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TBI 1		<input type="checkbox"/>	✓			
TBI 2		<input type="checkbox"/>	✓			
TBI 3		<input type="checkbox"/>	✓			
TBI 4		<input type="checkbox"/>	✓			
TBI 5		<input type="checkbox"/>	✓			
TBI 6		<input type="checkbox"/>	✓			
P7 #7		<input type="checkbox"/>	✓			
ATAC Brain Stem Practice		<input type="checkbox"/>	✓			
P7 cleanup #2		<input type="checkbox"/>	✓			
P7 cleanup #3		<input type="checkbox"/>	✓			
P7 cleanup #4		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 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

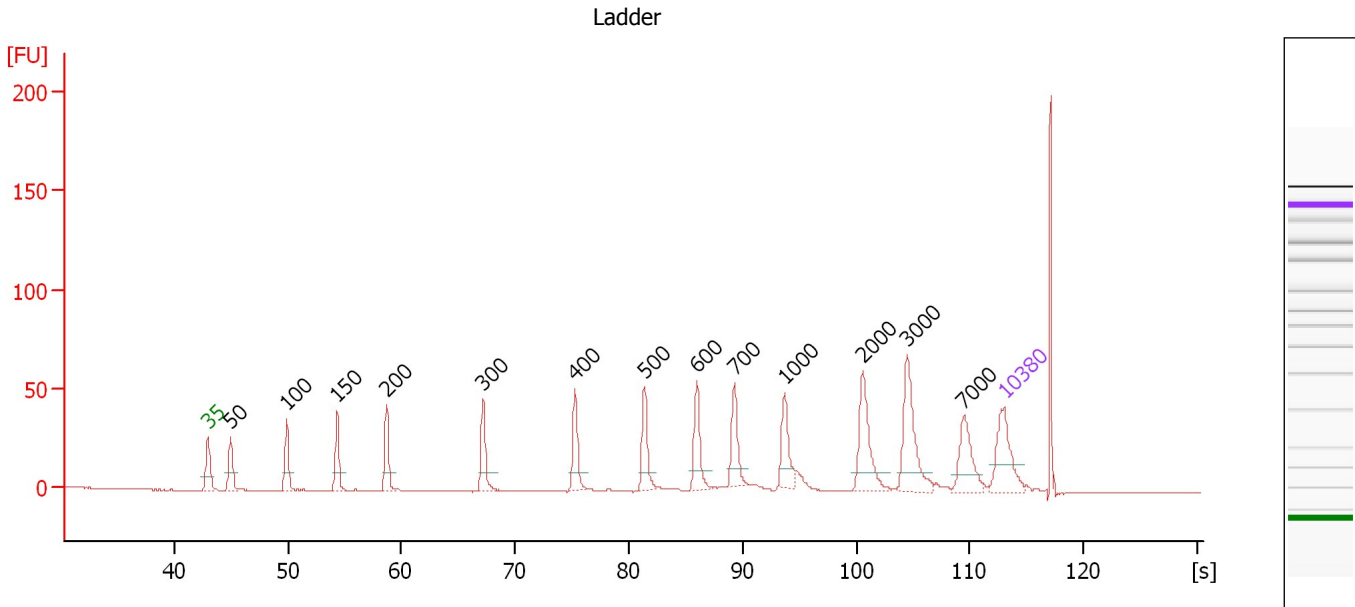
Ladder

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:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

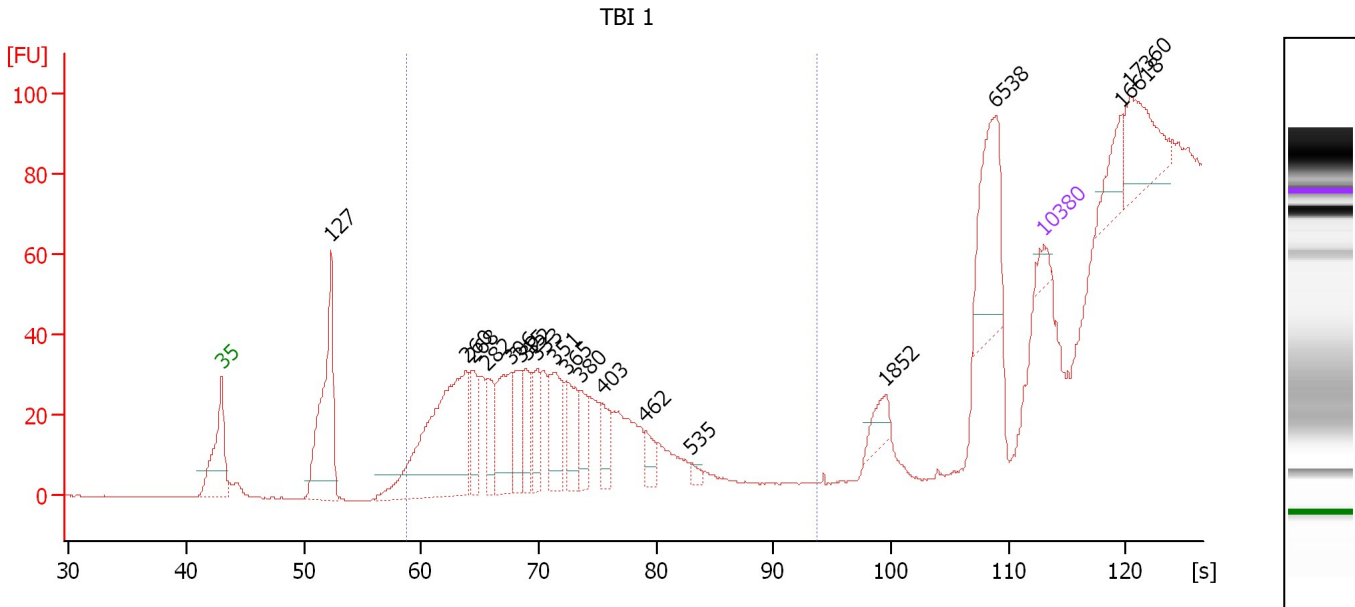
Peak table for Ladder

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	44.98
3	100	150.00	2,272.7	Ladder Peak	49.90
4	150	150.00	1,515.2	Ladder Peak	54.34
5	200	150.00	1,136.4	Ladder Peak	58.68
6	300	150.00	757.6	Ladder Peak	67.18
7	400	150.00	568.2	Ladder Peak	75.26
8	500	150.00	454.5	Ladder Peak	81.40
9	600	150.00	378.8	Ladder Peak	85.98
10	700	150.00	324.7	Ladder Peak	89.29
11	1,000	150.00	227.3	Ladder Peak	93.68
12	2,000	150.00	113.6	Ladder Peak	100.58
13	3,000	150.00	75.8	Ladder Peak	104.50
14	7,000	150.00	32.5	Ladder Peak	109.46
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TBI 1

Number of peaks found: 18 Corr. Area 1: 3.3
 Noise: 0.2

Peak table for sample 1 : TBI 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	127	1,631.02	19,400.8		52.33
3	260	2,255.52	13,131.8		63.80
4	268	396.37	2,242.8		64.44
5	282	356.86	1,919.0		65.63
6	306	692.28	3,431.1		67.64
7	315	373.66	1,798.7		68.38
8	322	281.47	1,326.3		68.92
9	333	313.81	1,426.0		69.88
10	351	533.52	2,303.1		71.30
11	365	366.50	1,520.8		72.44
12	380	254.20	1,013.9		73.63
13	403	252.28	949.6		75.42
14	462	147.06	482.2		79.07
15	535	51.65	146.3		83.01
16	1,852	155.19	127.0		99.56
17	6,538	744.73	172.6		108.89
18	10,380	75.00	10.9	Upper Marker	113.00
19	16,618	0.00	0.0		119.54
20	17,360	0.00	0.0		120.32

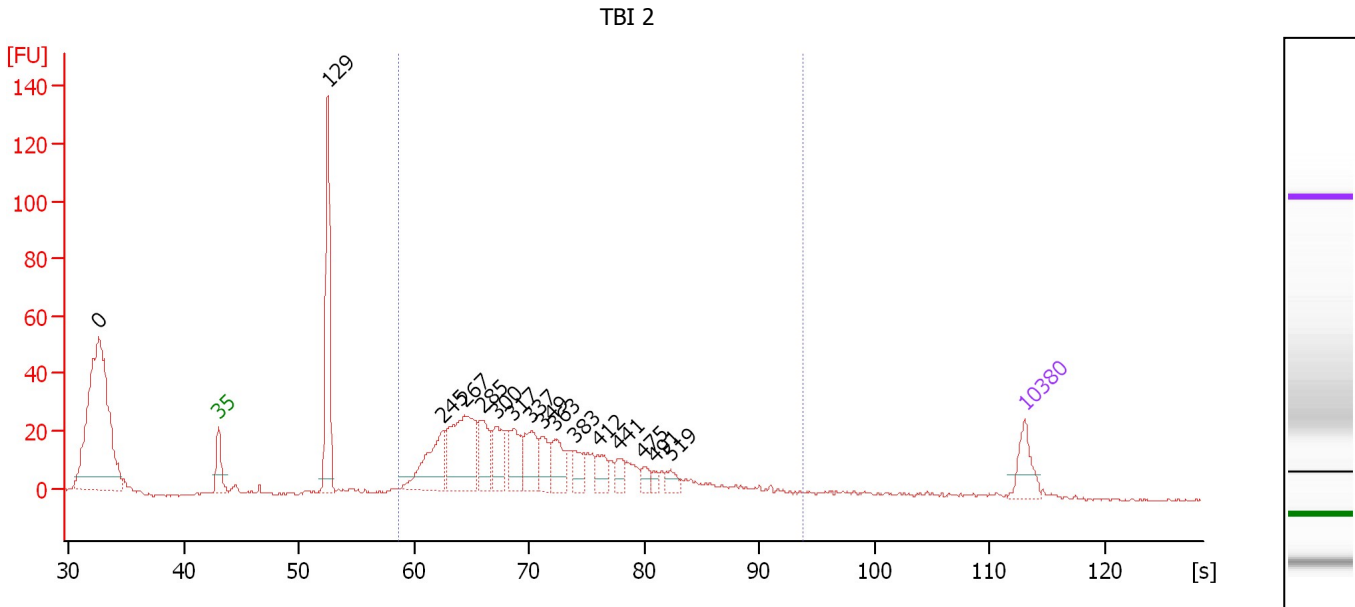
Region table for sample 1 : TBI 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	262	1,000	3.3	222.0	2	2.0	38.34	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TBI 2

Number of peaks found: 16 Corr. Area 1: 522.9
 Noise: 0.4

Peak table for sample 2 : TBI 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		32.60
2	35	125.00	5,411.3	Lower Marker	43.00
3	129	544.95	6,377.1		52.51
4	245	248.00	1,534.7		62.49
5	267	386.13	2,193.0		64.36
6	285	128.05	679.7		65.94
7	300	121.02	611.9		67.16
8	317	131.84	630.2		68.56
9	337	140.75	632.4		70.19
10	349	90.86	394.1		71.17
11	363	105.77	441.9		72.24
12	383	64.05	253.5		73.87
13	412	64.88	238.8		75.97
14	441	48.57	166.8		77.79
15	475	32.33	103.1		79.89
16	491	19.03	58.8		80.82
17	519	37.76	110.3		82.27
18	10,380	75.00	10.9	Upper Marker	113.00

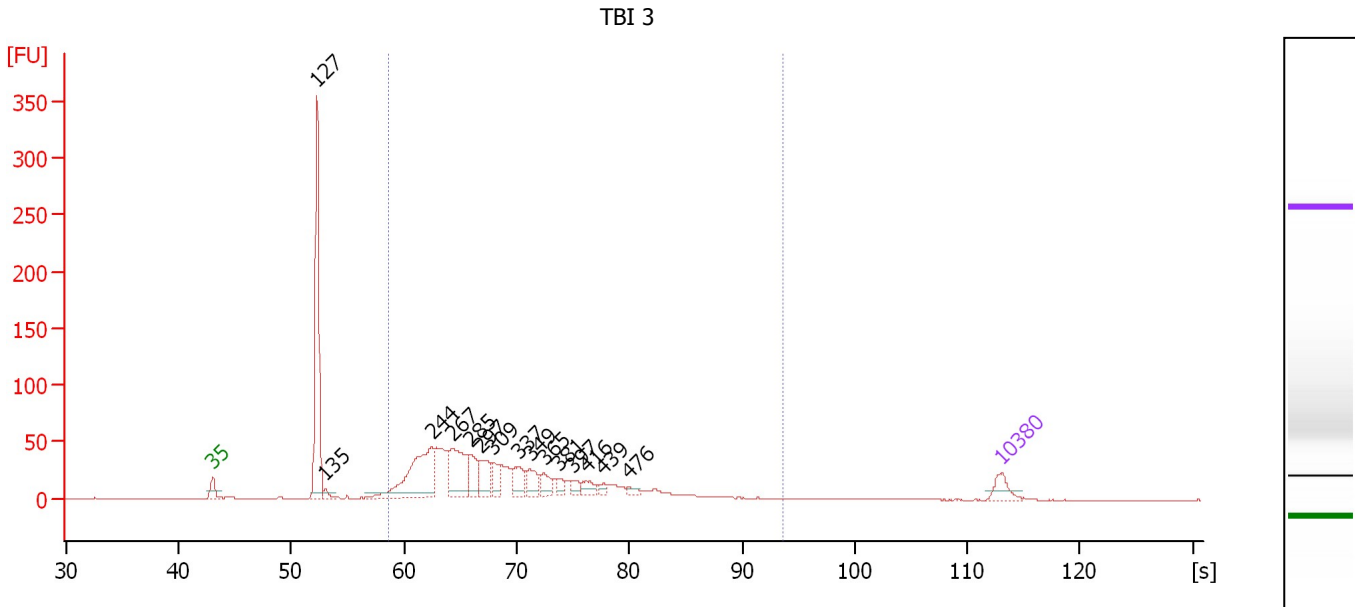
Region table for sample 2 : TBI 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	353	1,000	522.9	9,275.4	55	30.2	1,951.50	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TBI 3

Number of peaks found: 15 Corr. Area 1: 876.2
 Noise: 0.3

Peak table for sample 3 : TBI 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	127	1,385.11	16,517.8		52.30
3	135	49.44	554.4		53.01
4	244	754.43	4,677.4		62.46
5	267	413.64	2,348.9		64.36
6	285	207.09	1,099.7		65.94
7	297	205.75	1,051.2		66.89
8	309	119.41	584.8		67.94
9	337	157.56	708.2		70.18
10	349	136.75	592.8		71.18
11	365	105.56	438.4		72.42
12	381	59.31	235.6		73.76
13	397	47.49	181.1		75.04
14	416	75.09	273.6		76.24
15	439	31.09	107.3		77.67
16	476	30.84	98.2		79.91
17	10,380	75.00	10.9	Upper Marker	113.00

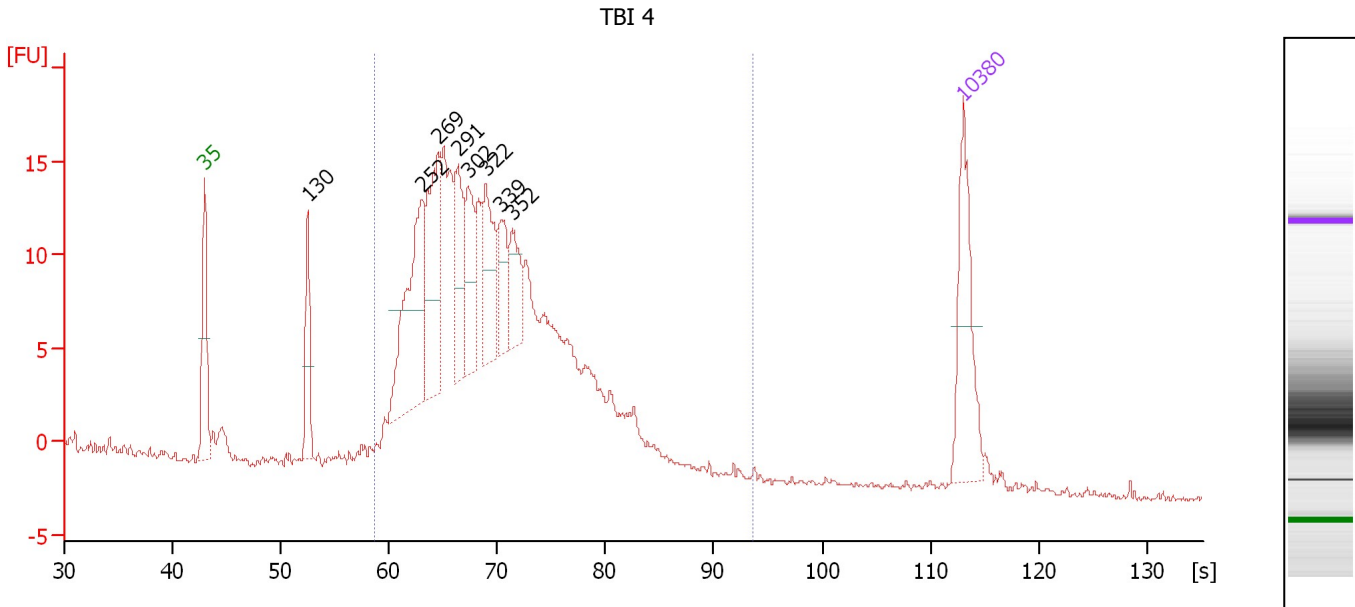
Region table for sample 3 : TBI 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	332	1,000	876.2	17,551.6	73	31.5	3,472.20	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TBI 4

Number of peaks found: 8 Corr. Area 1: 310.0
 Noise: 0.2

Peak table for sample 4 : TBI 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	130	67.58	790.5		52.52
3	252	171.82	1,034.3		63.08
4	269	132.08	743.4		64.57
5	291	75.28	391.5		66.45
6	302	68.26	342.5		67.34
7	322	72.71	341.9		68.98
8	339	44.39	198.1		70.37
9	352	44.89	193.1		71.41
10	10,380	75.00	10.9	Upper Marker	113.00

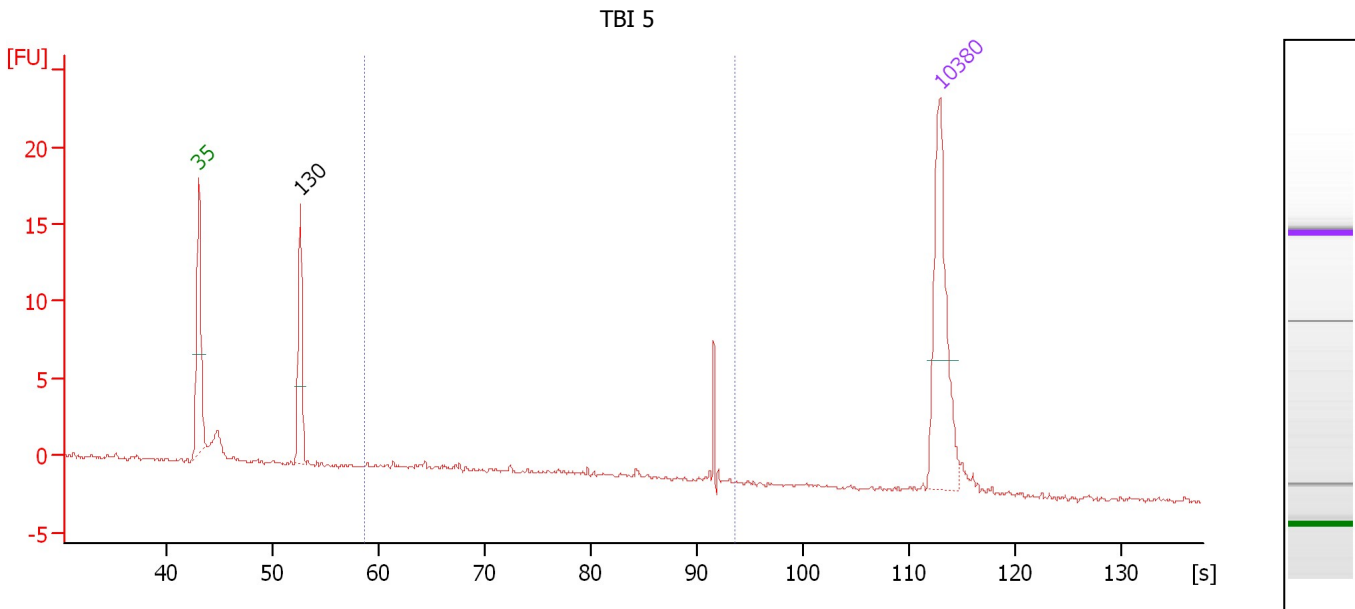
Region table for sample 4 : TBI 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	335	1,000	310.0	7,384.8	95	24.3	1,520.84	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TBI 5

Number of peaks found: 1 Corr. Area 1: 6.6
 Noise: 0.1

Peak table for sample 5 : TBI 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	130	63.92	743.7		52.58
3	10,380	75.00	10.9	Upper Marker	113.00

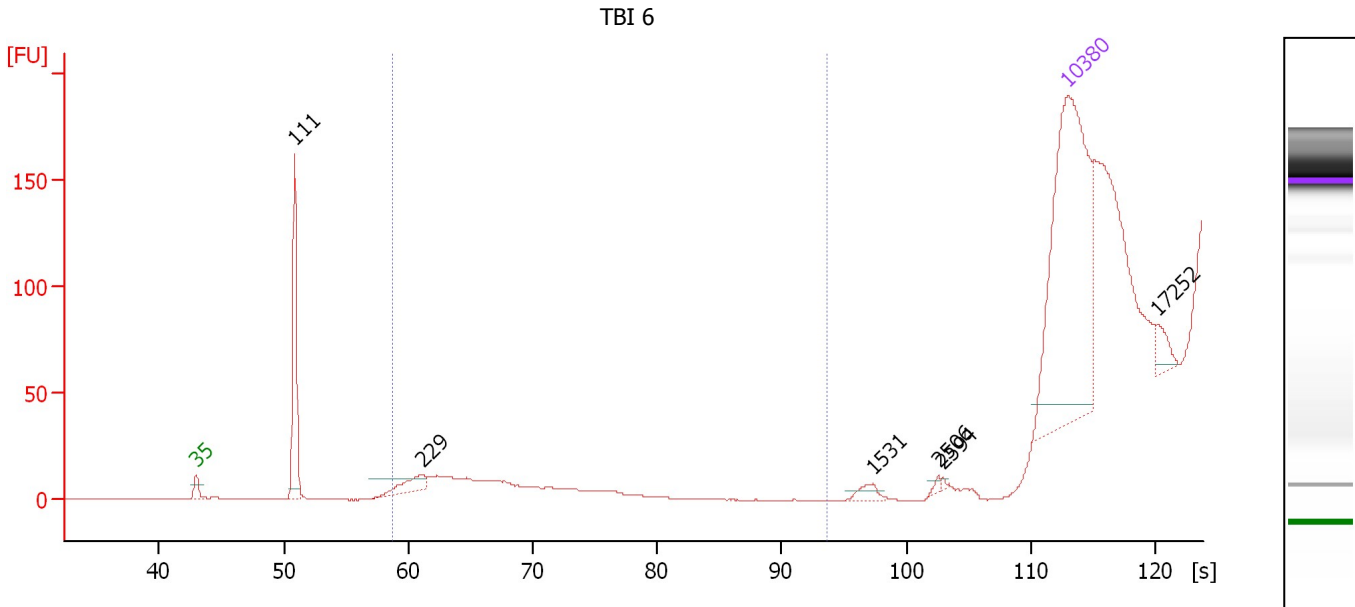
Region table for sample 5 : TBI 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	600	1,000	6.6	79.8	24	40.5	22.99	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TBI 6

Number of peaks found: 6 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 6 : TBI 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	111	43.06	586.5		50.89
3	229	7.89	52.2		61.16
4	1,531	2.73	2.7		97.34
5	2,506	0.74	0.4		102.56
6	2,594	0.31	0.2		102.91
7	10,380	75.00	10.9	Upper Marker	113.00
8	17,252	0.00	0.0		120.20

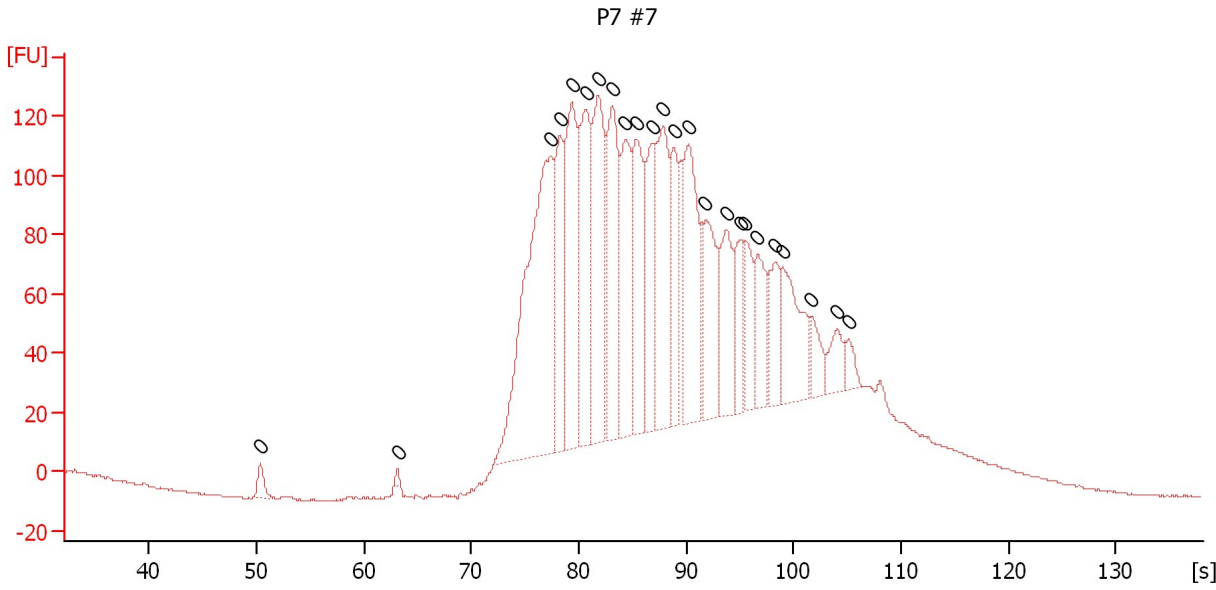
Region table for sample 6 : TBI 6

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P7 #7

Number of peaks found: 0 Noise: 0.3

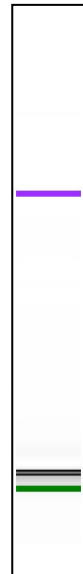
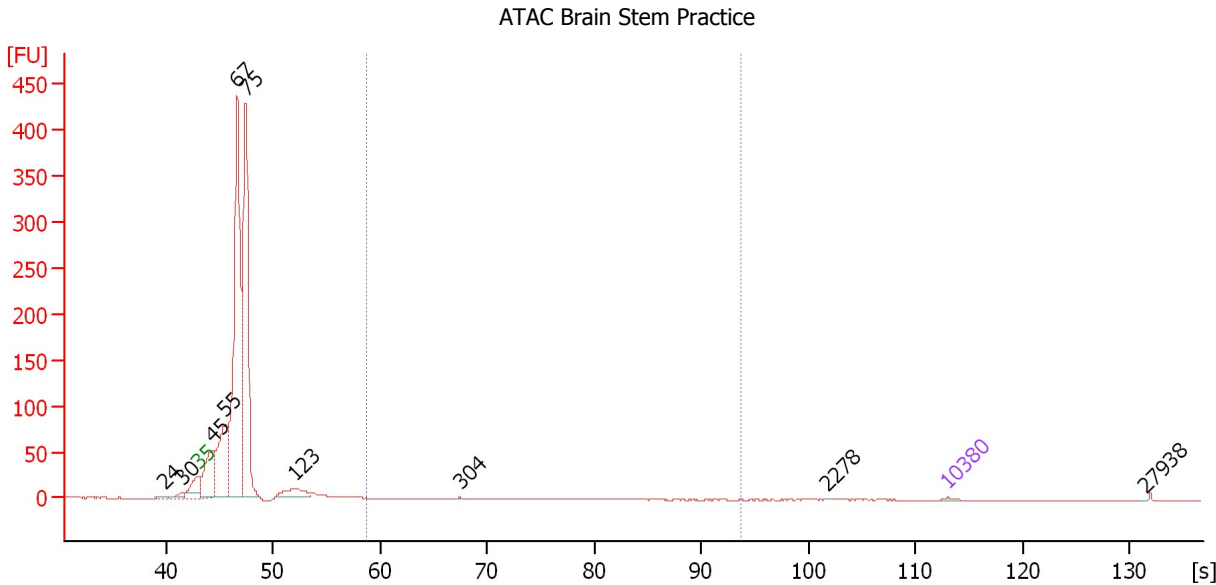
Peak table for sample 7 : P7 #7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		50.35
2	0	0.00	0.0		63.15
3	0	0.00	0.0		77.40
4	0	0.00	0.0		78.25
5	0	0.00	0.0		79.35
6	0	0.00	0.0		80.65
7	0	0.00	0.0		81.80
8	0	0.00	0.0		83.15
9	0	0.00	0.0		84.30
10	0	0.00	0.0		85.35
11	0	0.00	0.0		86.85
12	0	0.00	0.0		87.80
13	0	0.00	0.0		88.90
14	0	0.00	0.0		90.25
15	0	0.00	0.0		91.80
16	0	0.00	0.0		93.70
17	0	0.00	0.0		95.10
18	0	0.00	0.0		95.50
19	0	0.00	0.0		96.65
20	0	0.00	0.0		98.35
21	0	0.00	0.0		98.95
22	0	0.00	0.0		101.65
23	0	0.00	0.0		104.00
24	0	0.00	0.0		105.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : ATAC Brain Stem Practice

Height Threshold [FU] : 0.2

Overall Results for sample 8 : ATAC Brain Stem Practice

Number of peaks found: 10 Corr. Area 1: 3.3
 Noise: 0.2

Peak table for sample 8 : ATAC Brain Stem Practice

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.79
2	30	0.00	0.0		41.60
3	35	125.00	5,411.3	Lower Marker	43.00
4	45	7,501.86	253,388.5		44.30
5	55	9,726.09	266,352.5		45.51
6	67	36,943.28	834,620.3		46.66
7	75	30,145.89	607,127.9		47.46
8	123	2,449.32	30,207.3		51.93
9	304	28.81	143.8		67.47
10	2,278	7.17	4.8		101.67
11	10,380	75.00	10.9	Upper Marker	113.00
12	27,938	0.00	0.0		131.40

Region table for sample 8 : ATAC Brain Stem Practice

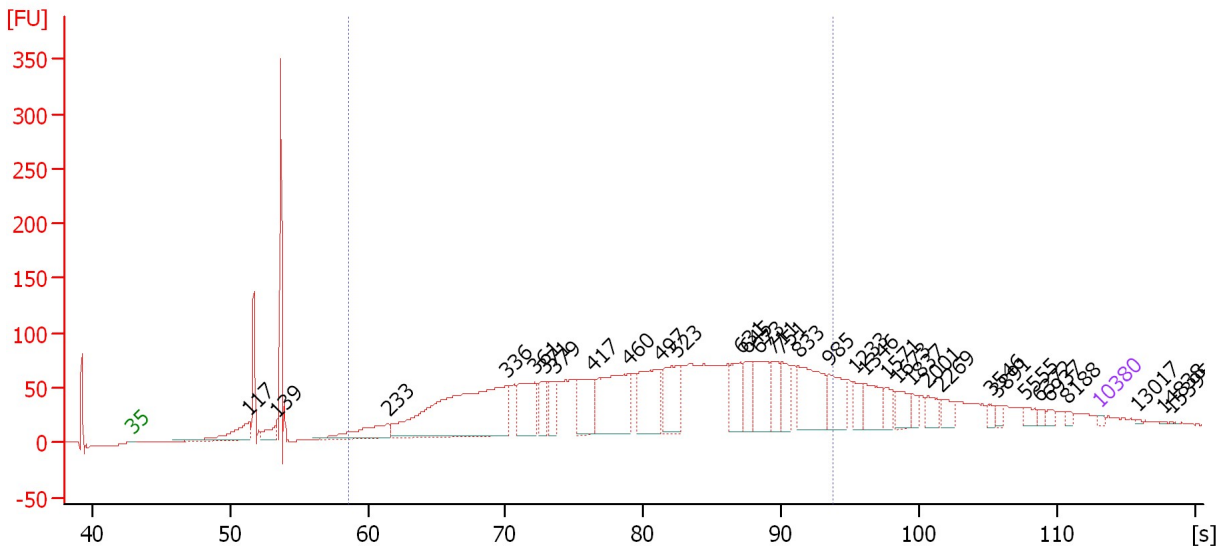
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	275	1,000	3.3	989.2	0	37.7	158.76	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

Created: 5/8/2015 11:43:48 AM
 Modified: 5/8/2015 12:35:07 PM

Electropherogram Summary Continued ...

P7 cleanup #2



Setpoint Deviations for sample 9 : P7 cleanup #2

Height Threshold [FU] : 0.2

Overall Results for sample 9 : P7 cleanup #2

Number of peaks found: 34 Corr. Area 1: 2,458.8
 Noise: 0.1

Peak table for sample 9 : P7 cleanup #2

Pea k	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	117	2,326.61	30,232.2		51.37
3	139	954.17	10,403.5		53.36
4	233	2,159.11	14,063.9		61.45
5	336	12,167.44	54,856.3		70.10
6	361	2,901.85	12,191.1		72.08
7	371	1,066.68	4,358.9		72.90
8	379	1,127.32	4,507.1		73.56
9	417	2,429.09	8,832.0		76.29
10	460	4,824.95	15,876.3		78.97
11	497	3,470.93	10,576.3		81.23
12	523	2,681.78	7,761.9		82.48
13	631	1,676.75	4,028.9		86.99
14	645	1,287.67	3,026.2		87.46
15	673	2,218.07	4,993.9		88.39
16	711	1,265.33	2,697.4		89.45
17	751	1,267.89	2,559.3		90.03
18	833	3,055.46	5,557.3		91.24
19	985	1,591.05	2,448.4		93.46
20	1,233	680.65	836.6		95.29
21	1,346	1,263.54	1,422.8		96.06
22	1,571	575.25	554.7		97.62

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

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Electropherogram Summary Continued ...

... Peak table for sample 9 : P7 cleanup #2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
23	1,673	730.02	661.1		98.32
24	1,837	410.96	339.0		99.45
25	2,001	526.16	398.5		100.58
26	2,269	512.15	342.0		101.63
27	3,546	205.91	88.0		105.17
28	3,891	197.25	76.8		105.60
29	5,555	319.69	87.2		107.67
30	6,372	161.91	38.5		108.68
31	6,937	184.07	40.2		109.38
32	8,188	133.41	24.7		110.70
33	10,380	75.00	10.9	Upper Marker	113.00
34	13,017	0.00	0.0		115.76
35	14,838	0.00	0.0		117.67
36	15,395	0.00	0.0		118.26

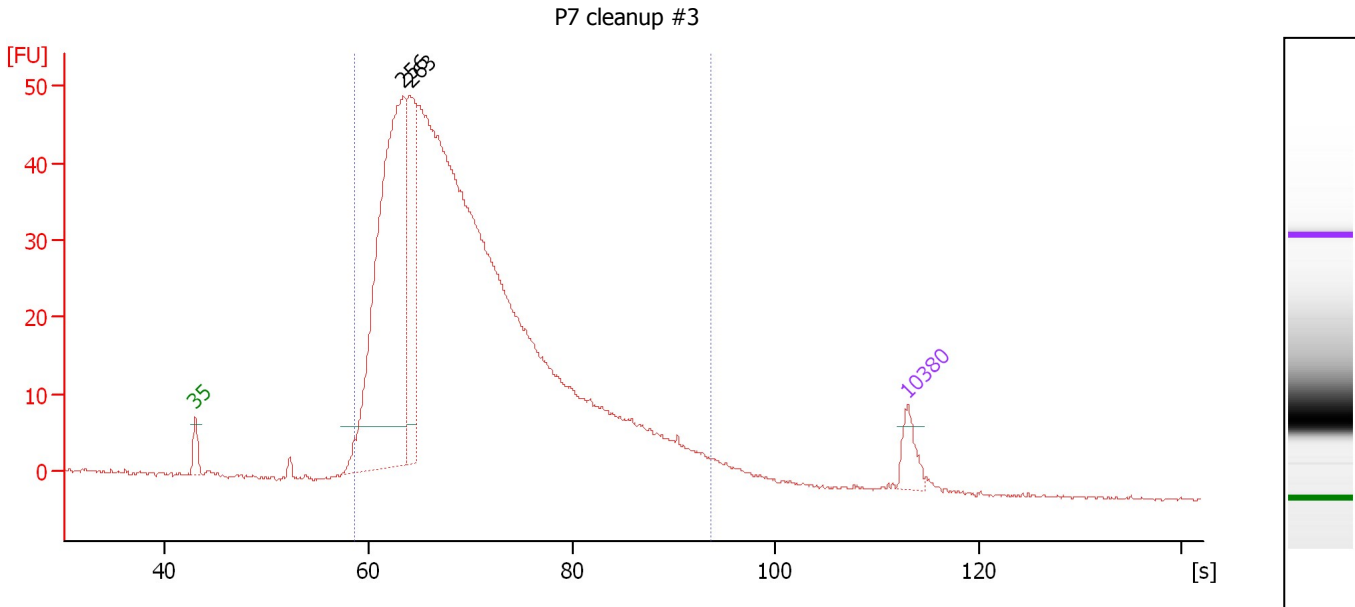
Region table for sample 9 : P7 cleanup #2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	514	1,000	2,458.8	206,299.7	72	36.3	57,369.75	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : P7 cleanup #3

Number of peaks found: 2 Corr. Area 1: 1,027.2
 Noise: 0.2

Peak table for sample 10 : P7 cleanup #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	256	2,044.24	12,106.1		63.43
3	263	580.05	3,337.9		64.06
4	10,380	75.00	10.9	Upper Marker	113.00

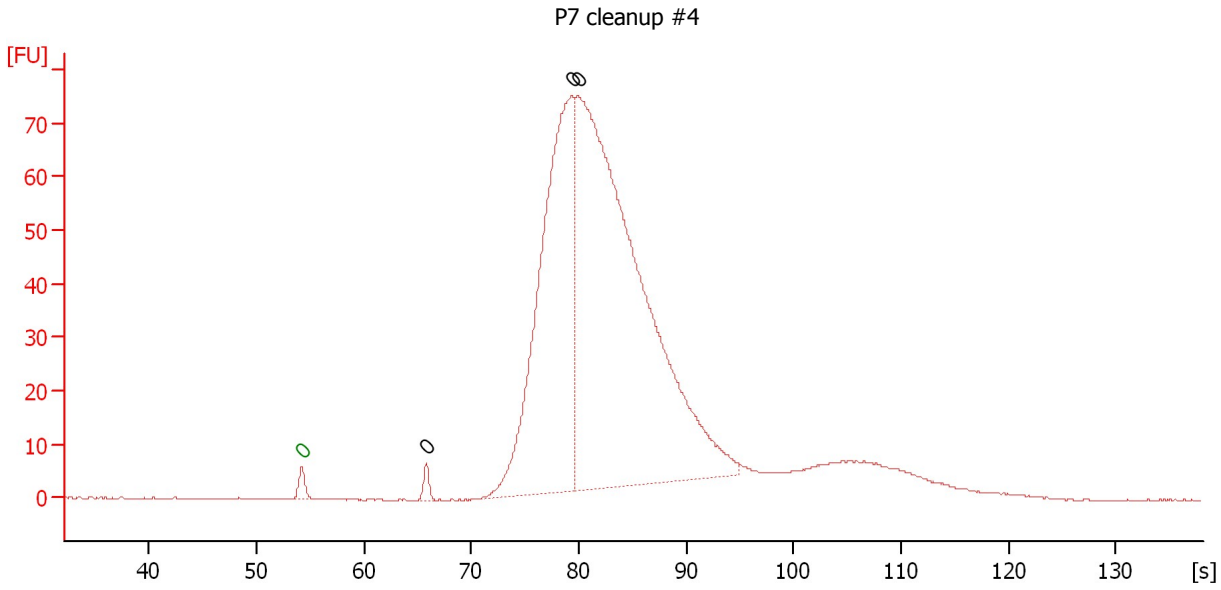
Region table for sample 10 : P7 cleanup #3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	355	1,000	1,027.2	41,026.8	97	37.2	8,416.34	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : P7 cleanup #4

Number of peaks found: 3 Noise: 0.1

Peak table for sample 11 : P7 cleanup #4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0	Lower Marker	54.20
2	0	0.00	0.0		65.80
3	0	0.00	0.0		79.35
4	0	0.00	0.0		79.90

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-08\2015-05-08_002.xad

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Modified: 5/8/2015 12:35:07 PM

Gel Image

