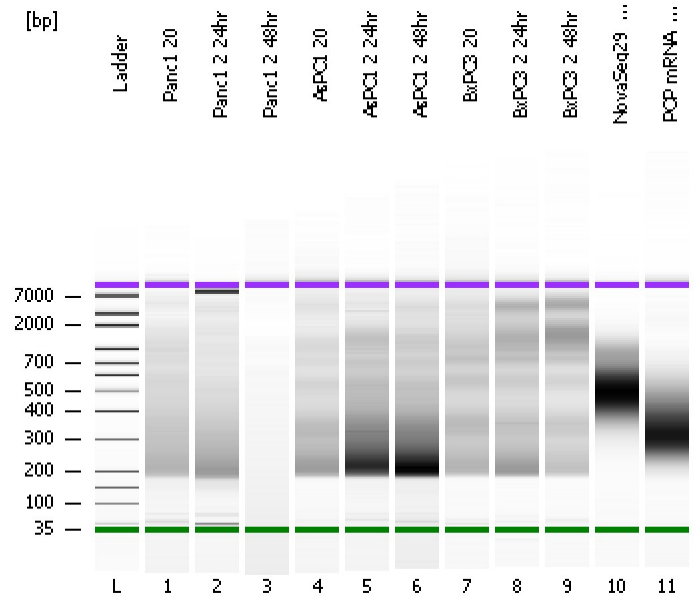
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electrophoresis File Run Summary



Instrument Information:

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

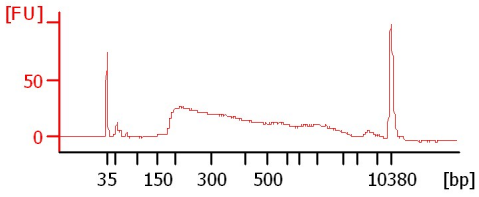
Assay Information:

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

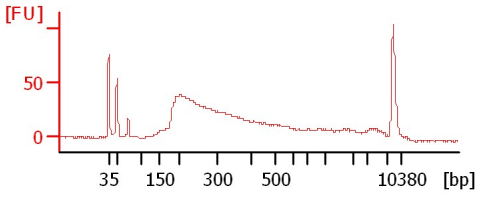
Chip Information:

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

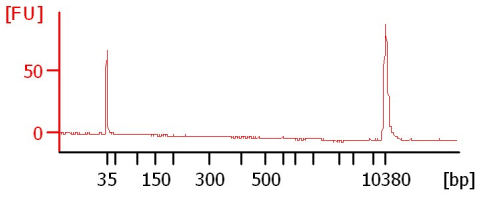
Panc1 20



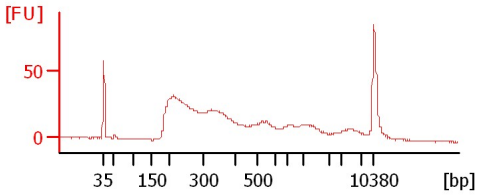
Panc1 2 24hr



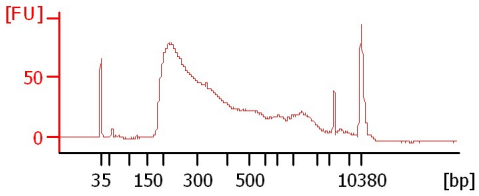
Panc1 2 48hr



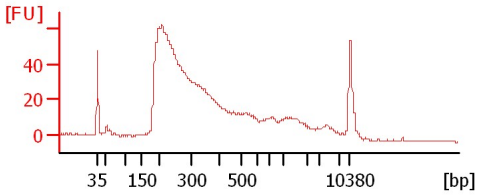
AsPC1 20



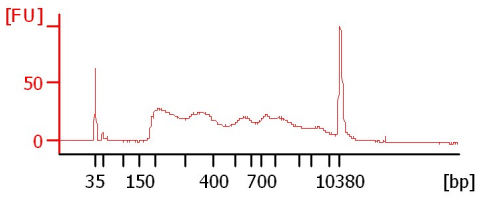
AsPC1 2 24hr



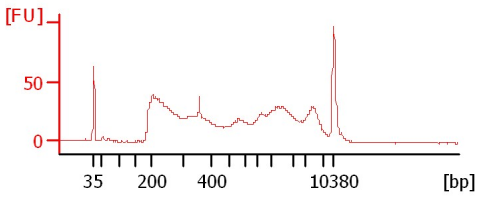
AsPC1 2 48hr



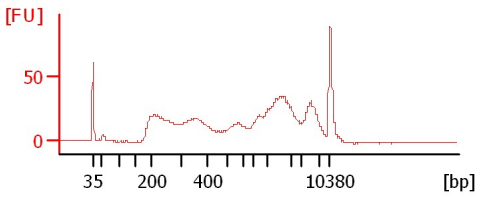
BxPC3 20



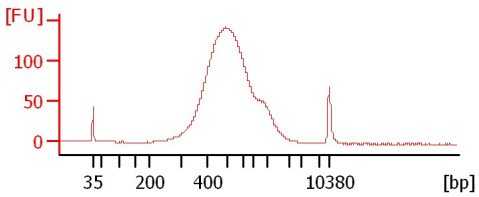
BxPC3 2 24hr



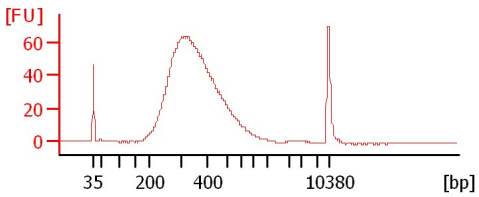
BxPC3 2 48hr



NovaSeq29_Pool A



POP mRNA_Seq repool



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Panc1 20		☐	✔			
Panc1 2 24hr		☐	✔			
Panc1 2 48hr		☐	✔			
AsPC1 20		☐	✔			
AsPC1 2 24hr		☐	✔			
AsPC1 2 48hr		☐	✔			
BxPC3 20		☐	✔			
BxPC3 2 24hr		☐	✔			
BxPC3 2 48hr		☐	✔			
NovaSeq29_Pool A		☐	✔			
POP mRNA_Seq repool		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 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:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
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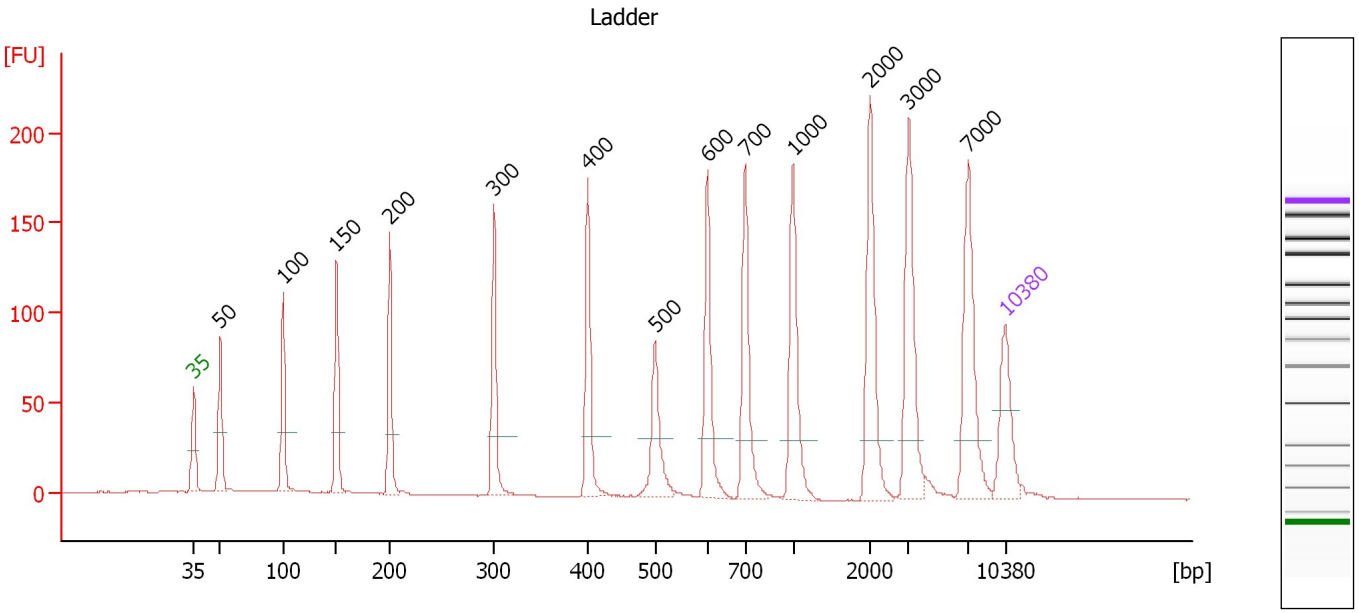
Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

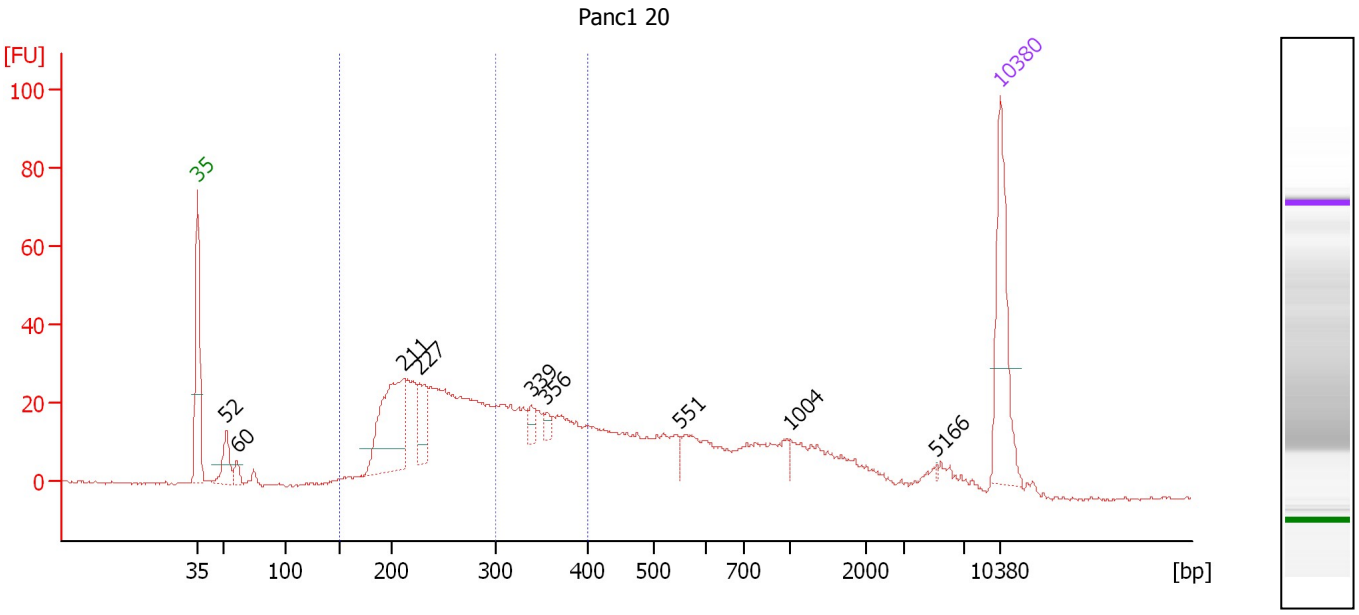
Peak table for Ladder

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	45.30
3		100	150.00	2,272.7	Ladder Peak	50.73
4		150	150.00	1,515.2	Ladder Peak	55.33
5		200	150.00	1,136.4	Ladder Peak	59.93
6		300	150.00	757.6	Ladder Peak	68.89
7		400	150.00	568.2	Ladder Peak	76.99
8		500	150.00	454.5	Ladder Peak	82.78
9		600	150.00	378.8	Ladder Peak	87.34
10		700	150.00	324.7	Ladder Peak	90.56
11		1,000	150.00	227.3	Ladder Peak	94.70
12		2,000	150.00	113.6	Ladder Peak	101.36
13		3,000	150.00	75.8	Ladder Peak	104.68
14		7,000	150.00	32.5	Ladder Peak	109.83
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Panc1 20

Number of peaks found:	9	Corr. Area 1:	419.8
Noise:	0.3	Corr. Area 2:	636.5

Peak table for sample 1 : Panc1 20

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	52	35.82	1,053.3		45.47
3	60	11.62	293.0		46.40
4	211	135.18	968.6		60.95
5	227	40.52	270.4		62.35
6	339	10.70	47.8		72.07
7	356	7.07	30.1		73.42
8	551	2.03	5.6		85.09
9	1,004	1.49	2.3		94.72
10	5,166	0.45	0.1		107.47
11	10,380	75.00	10.9	Upper Marker	113.00

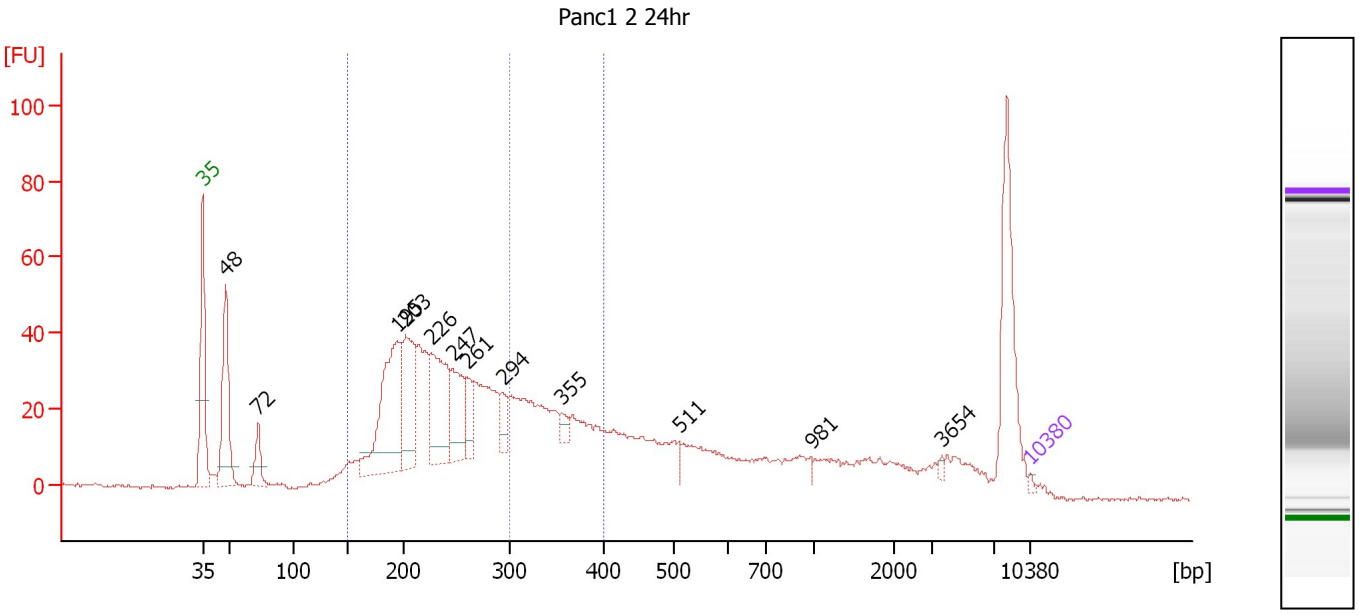
Region table for sample 1 : Panc1 20

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]
150	300	238	575.49	419.8	3,736.6	39	14.6
150	400	279	836.55	636.5	4,875.5	60	22.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Panc1 2 24hr

Number of peaks found:	12	Corr. Area 1:	625.3
Noise:	0.4	Corr. Area 2:	865.4

Peak table for sample 2 : Panc1 2 24hr

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	48	5,416.59	172,261.1		44.94
3	72	1,374.60	28,926.1		47.69
4	195	7,287.47	56,665.2		59.45
5	203	4,186.65	31,284.3		60.17
6	226	4,627.86	30,972.9		62.29
7	247	2,740.44	16,810.8		64.14
8	261	1,202.83	6,994.3		65.36
9	294	820.76	4,226.5		68.38
10	355	406.08	1,733.8		73.33
11	511	88.49	262.3		83.30
12	981	38.71	59.8		94.43
13	3,654	107.70	44.7		105.52
14	10,380	75.00	10.9	Upper Marker	113.00

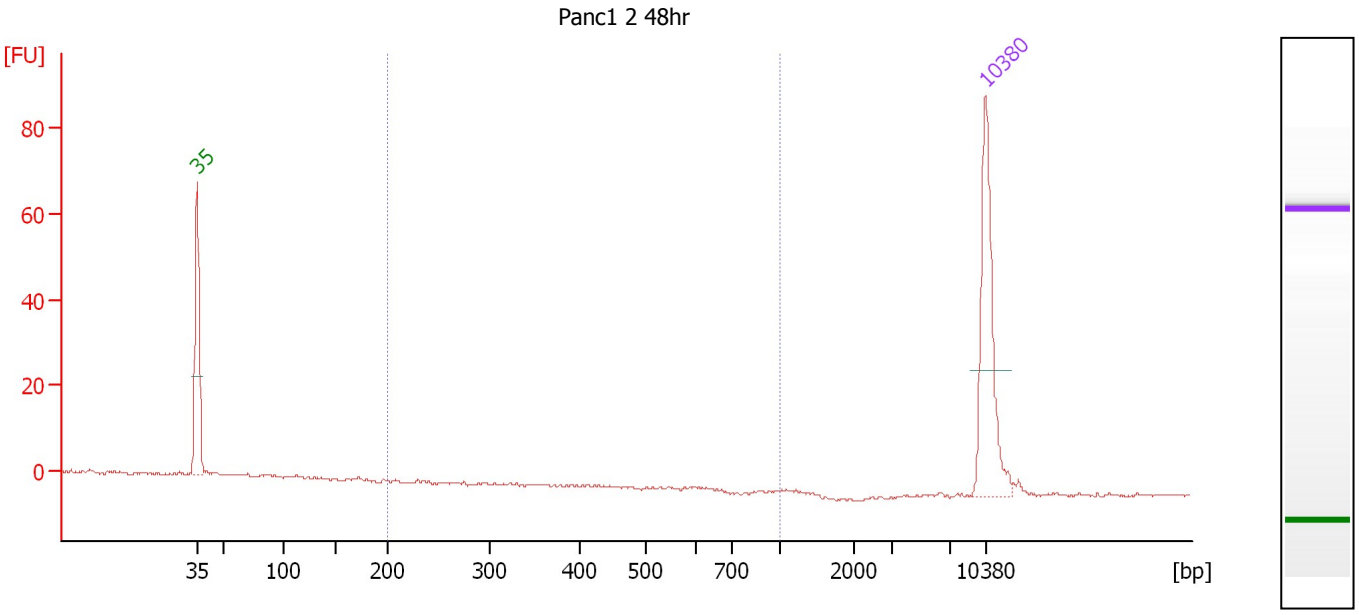
Region table for sample 2 : Panc1 2 24hr

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	300	230	37,307.05	625.3	251,990.4	42	16.1
150	400	266	49,796.98	865.4	306,745.0	59	24.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Panc1 2 48hr

Number of peaks found:	0	Corr. Area 1:	0.0
Noise:	0.3		

Peak table for sample 3 : Panc1 2 48hr

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 3 : Panc1 2 48hr

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

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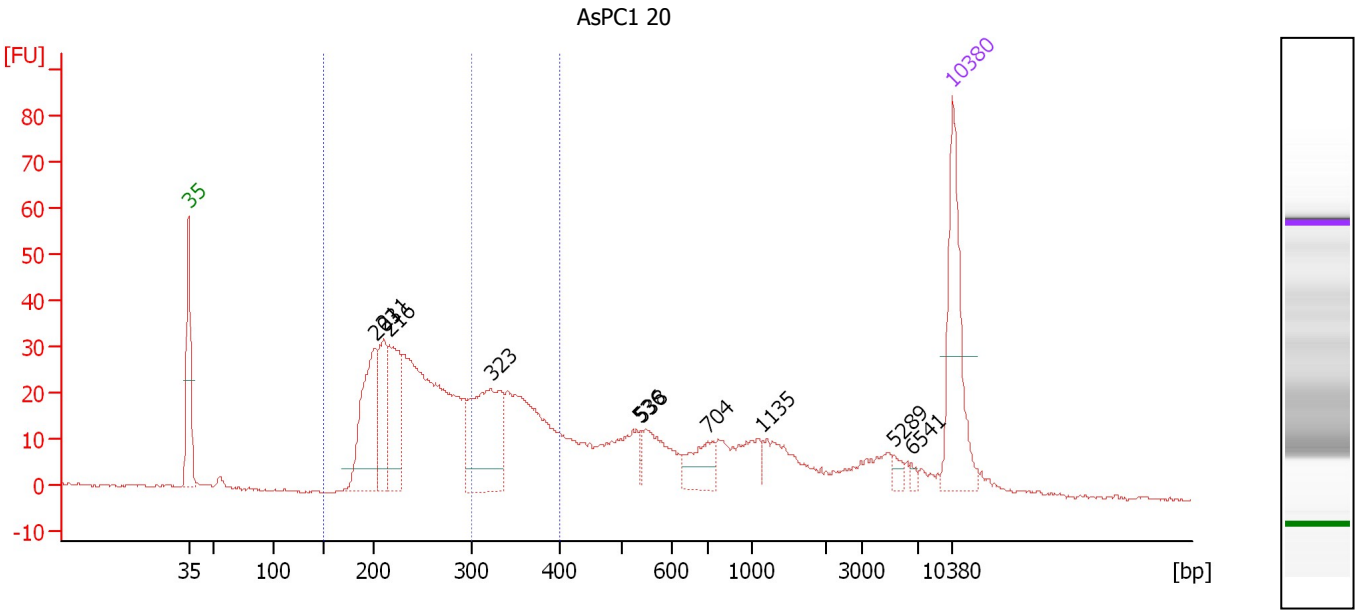


Overall Results for sample 4 : AsPC1 20

Number of peaks found:	11	Corr. Area 1:	420.6
Noise:	0.3	Corr. Area 2:	632.3

Peak table for sample 4 : AsPC1 20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		0.08
2	35	125.00	5,411.3	Lower Marker	43.00
3	203	112.06	838.1		60.16
4	211	61.72	443.7		60.89
5	216	81.54	571.4		61.38
6	323	126.07	592.2		70.72
7	536	2.05	5.8		84.40
8	538	2.04	5.7		84.50
9	704	30.23	65.1		90.61
10	1,135	1.22	1.6		95.60
11	5,289	5.64	1.6		107.62
12	6,541	3.04	0.7		109.24
13	10,380	75.00	10.9	Upper Marker	113.00

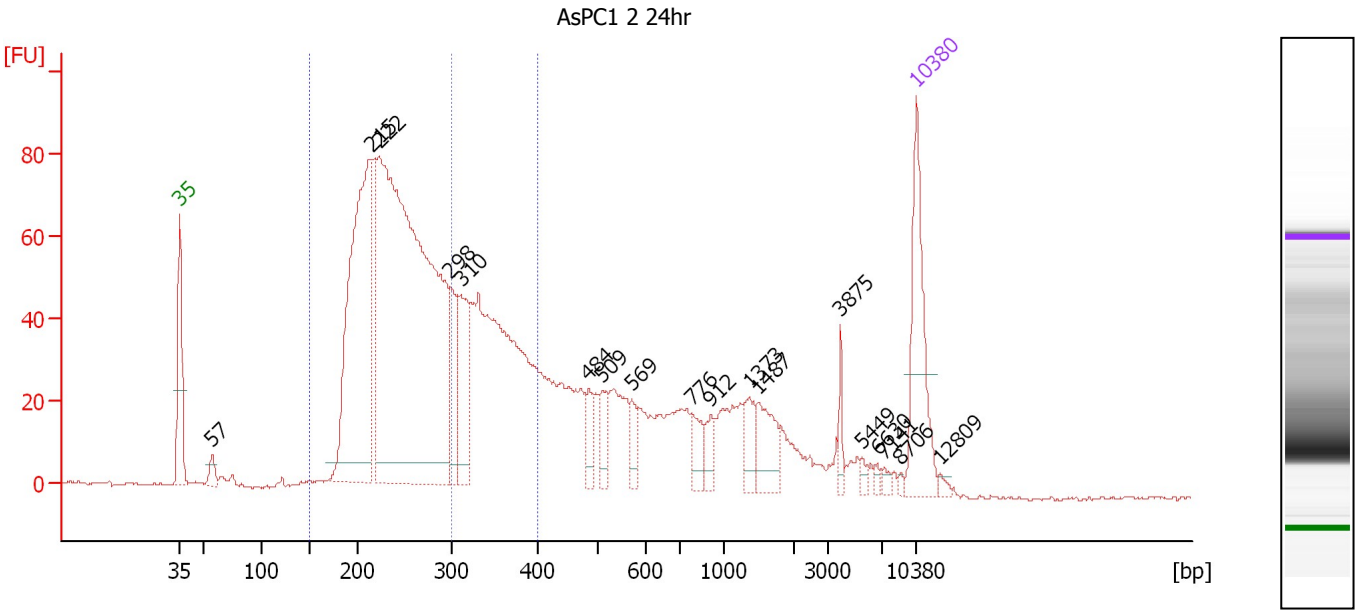
Region table for sample 4 : AsPC1 20

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	300	238	544.47	420.6	3,515.4	42	13.6
150	400	277	786.12	632.3	4,574.4	63	21.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AsPC1 2 24hr

Number of peaks found:	18	Corr. Area 1:	1,052.0
Noise:	0.4	Corr. Area 2:	1,492.3

Peak table for sample 5 : AsPC1 2 24hr

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	57	14.95	395.2		46.09
3	215	361.69	2,551.9		61.25
4	222	860.92	5,873.3		61.91
5	298	61.90	314.3		68.75
6	310	79.84	390.1		69.71
7	484	18.55	58.0		81.88
8	509	23.65	70.4		83.20
9	569	16.97	45.2		85.93
10	776	21.05	41.1		91.61
11	912	15.27	25.4		93.49
12	1,373	21.82	24.1		97.19
13	1,487	33.24	33.9		97.95
14	3,875	9.89	3.9		105.80
15	5,449	3.98	1.1		107.83
16	6,630	3.17	0.7		109.35
17	7,141	3.76	0.8		109.96
18	8,706	2.12	0.4		111.43
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,809	0.00	0.0		115.28

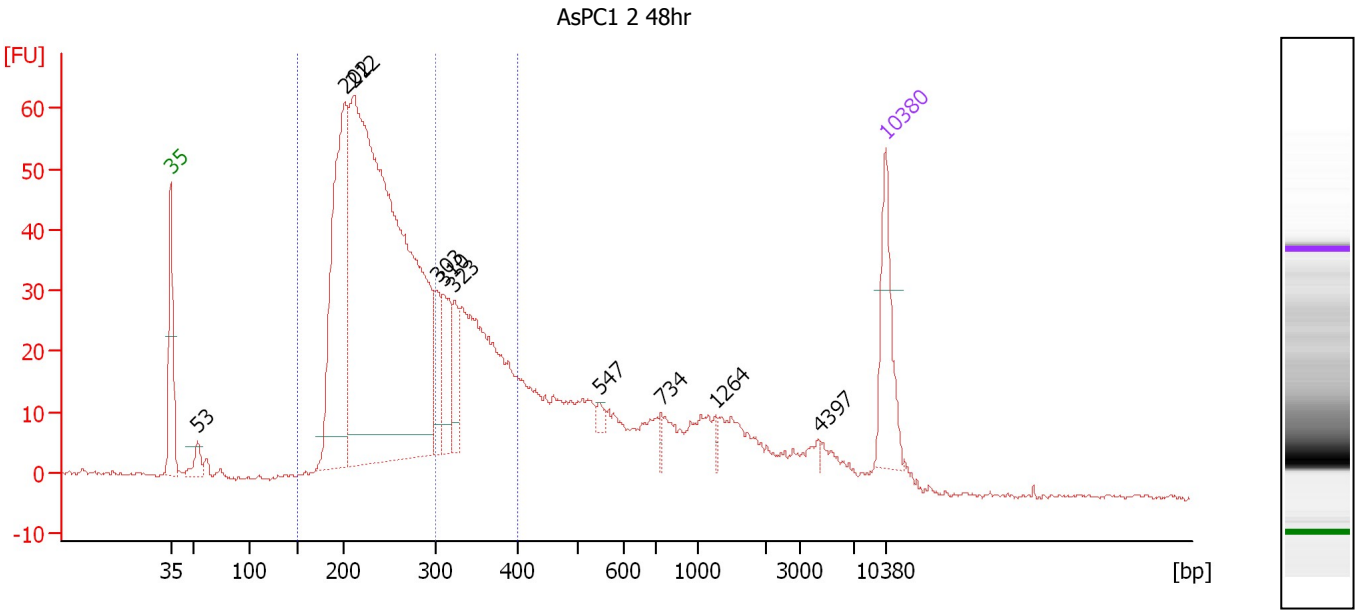
Region table for sample 5 : AsPC1 2 24hr

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
150	300	238	1,269.54	1,052.0	8,167.1	48	13.5
150	400	273	1,738.62	1,492.3	10,224.5	69	21.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AsPC1 2 48hr

Number of peaks found:	10	Corr. Area 1:	787.3
Noise:	0.3	Corr. Area 2:	1,068.5

Peak table for sample 6 : AsPC1 2 48hr

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	53	27.62	784.5		45.66
3	202	411.22	3,081.5		60.12
4	212	1,376.17	9,858.5		60.96
5	303	55.49	277.9		69.10
6	310	75.92	370.7		69.73
7	323	48.27	226.3		70.77
8	547	9.01	25.0		84.92
9	734	2.95	6.1		91.02
10	1,264	2.21	2.7		96.45
11	4,397	1.10	0.4		106.48
12	10,380	75.00	10.9	Upper Marker	113.00

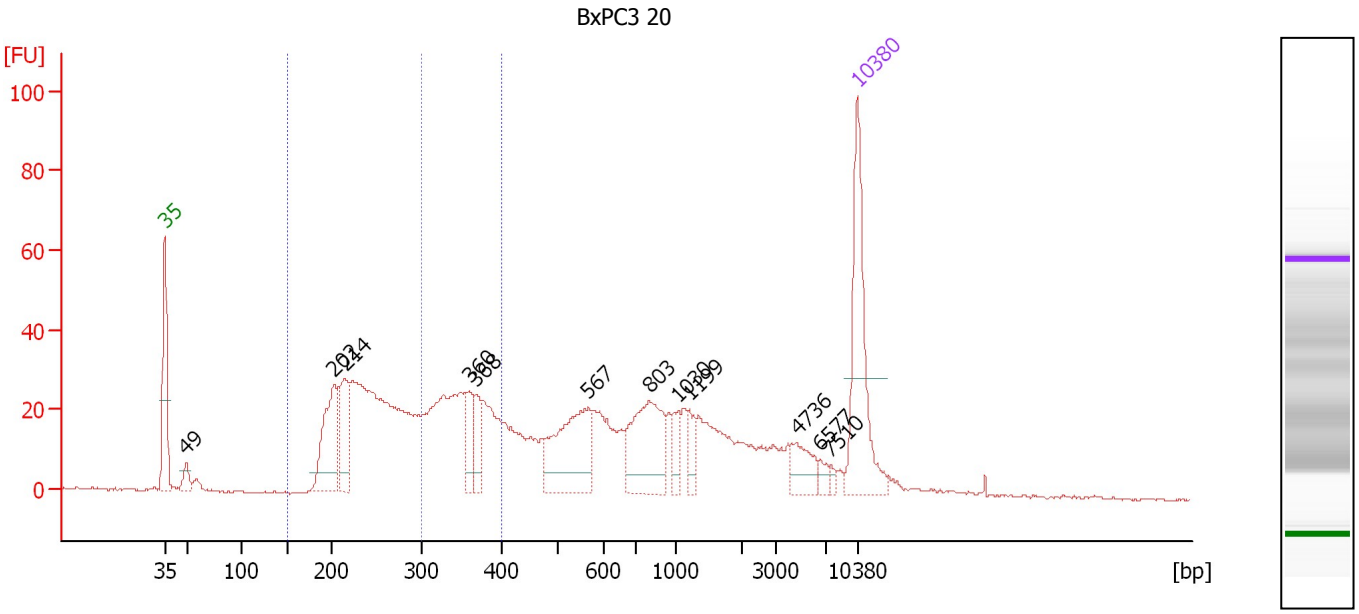
Region table for sample 6 : AsPC1 2 48hr

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
150	300	235	1,822.84	787.3	11,925.0	53	13.8
150	400	267	2,395.79	1,068.5	14,444.7	72	22.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BxPC3 20

Number of peaks found:	12	Corr. Area 1:	368.6
Noise:	0.3	Corr. Area 2:	615.4

Peak table for sample 7 : BxPC3 20

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	13.84	427.3		45.16
3	202	76.64	573.9		60.14
4	214	52.08	368.1		61.21
5	360	26.78	112.9		73.72
6	368	20.52	84.4		74.42
7	567	80.65	215.5		85.84
8	803	72.47	136.6		91.98
9	1,030	13.53	19.9		94.89
10	1,199	12.92	16.3		96.03
11	4,736	19.15	6.1		106.91
12	6,577	5.31	1.2		109.28
13	7,510	3.12	0.6		110.31
14	10,380	75.00	10.9	Upper Marker	113.00

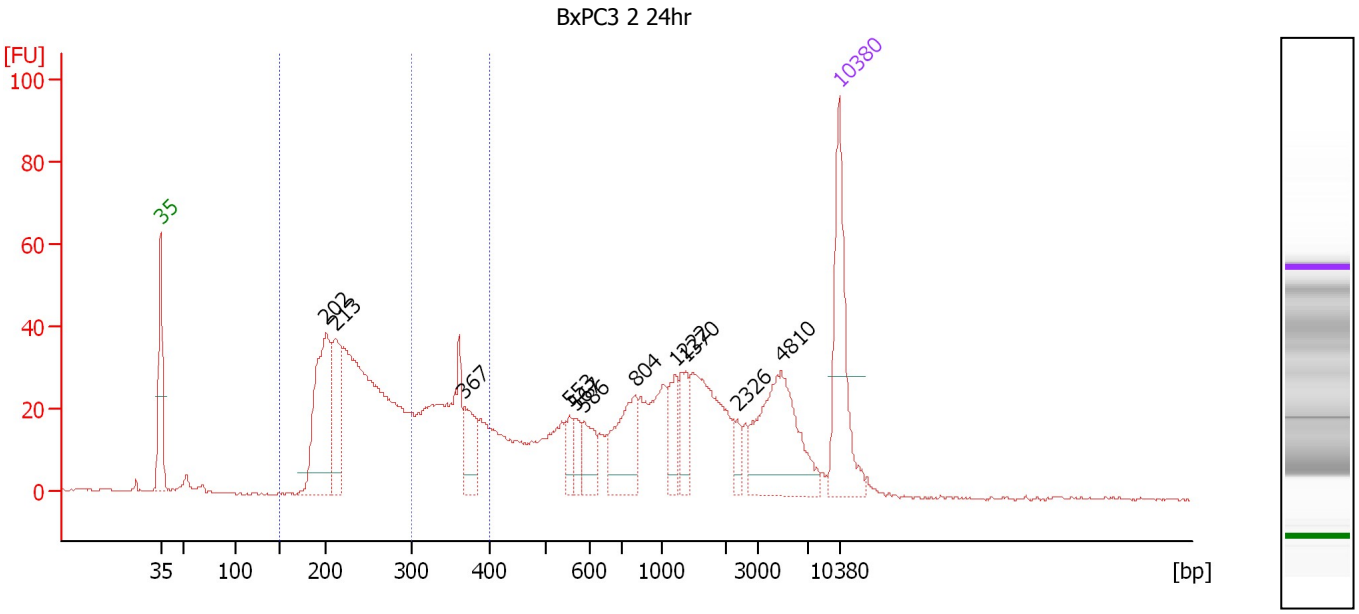
Region table for sample 7 : BxPC3 20

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	300	240	397.64	368.6	2,534.9	30	13.3
150	400	288	632.02	615.4	3,550.9	50	21.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BxPC3 2 24hr

Number of peaks found:	11	Corr. Area 1:	456.5
Noise:	0.3	Corr. Area 2:	680.9

Peak table for sample 8 : BxPC3 2 24hr

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	202	139.79	1,048.7		60.10
3	213	76.44	543.7		61.09
4	367	38.57	159.1		74.34
5	553	14.94	41.0		85.18
6	567	15.46	41.3		85.84
7	586	25.32	65.4		86.72
8	804	57.65	108.6		91.99
9	1,222	24.42	30.3		96.17
10	1,370	23.84	26.4		97.16
11	2,326	9.38	6.1		102.44
12	4,810	93.51	29.5		107.01
13	10,380	75.00	10.9	Upper Marker	113.00

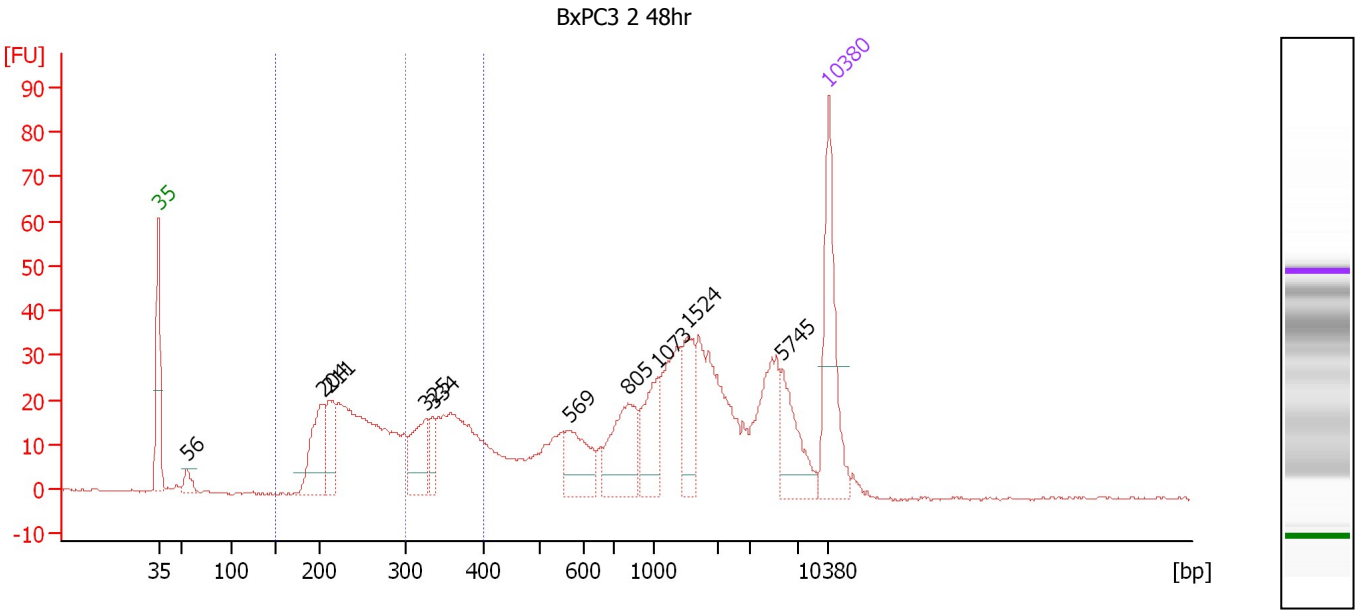
Region table for sample 8 : BxPC3 2 24hr

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
150	300	236	534.21	456.5	3,472.2	33	13.5
150	400	277	764.55	680.9	4,473.2	49	22.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BxPC3 2 48hr

Number of peaks found:	10	Corr. Area 1:	254.8
Noise:	0.3	Corr. Area 2:	417.4

Peak table for sample 9 : BxPC3 2 48hr

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	56	13.95	377.4		45.95
3	204	71.94	533.3		60.32
4	211	42.01	302.2		60.88
5	325	48.37	225.6		70.90
6	334	18.84	85.4		71.68
7	569	45.18	120.3		85.94
8	805	62.69	118.0		92.01
9	1,073	41.18	58.2		95.18
10	1,524	40.77	40.5		98.19
11	5,745	43.14	11.4		108.21
12	10,380	75.00	10.9	Upper Marker	113.00

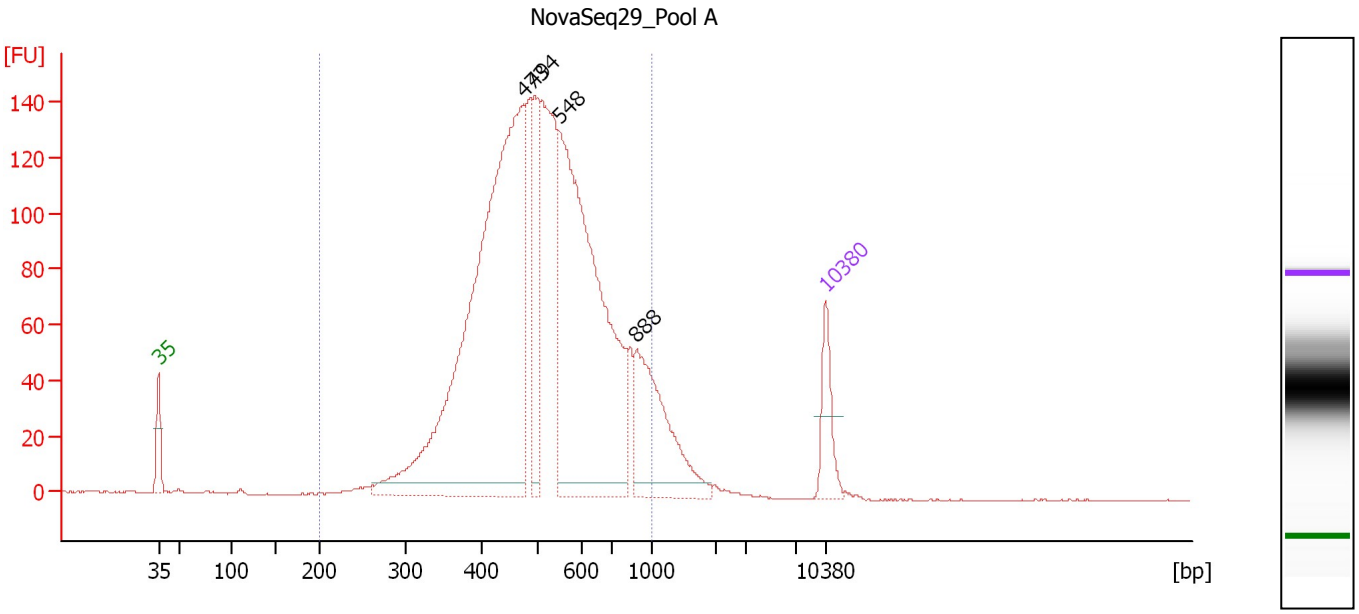
Region table for sample 9 : BxPC3 2 48hr

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of Total	Size distribution in CV [%]
150	300	238	320.35	254.8	2,058.1	24	13.4
150	400	285	500.20	417.4	2,839.1	39	21.9

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : NovaSeq29_Pool A

Number of peaks found:	4	Corr. Area 1:	2,487.4
Noise:	0.2		

Peak table for sample 10 : NovaSeq29_Pool A

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	473	1,543.56	4,940.1		81.24
3	494	209.83	644.0		82.42
4	548	1,035.87	2,861.7		84.99
5	888	287.66	490.7		93.15
6	10,380	75.00	10.9	Upper Marker	113.00

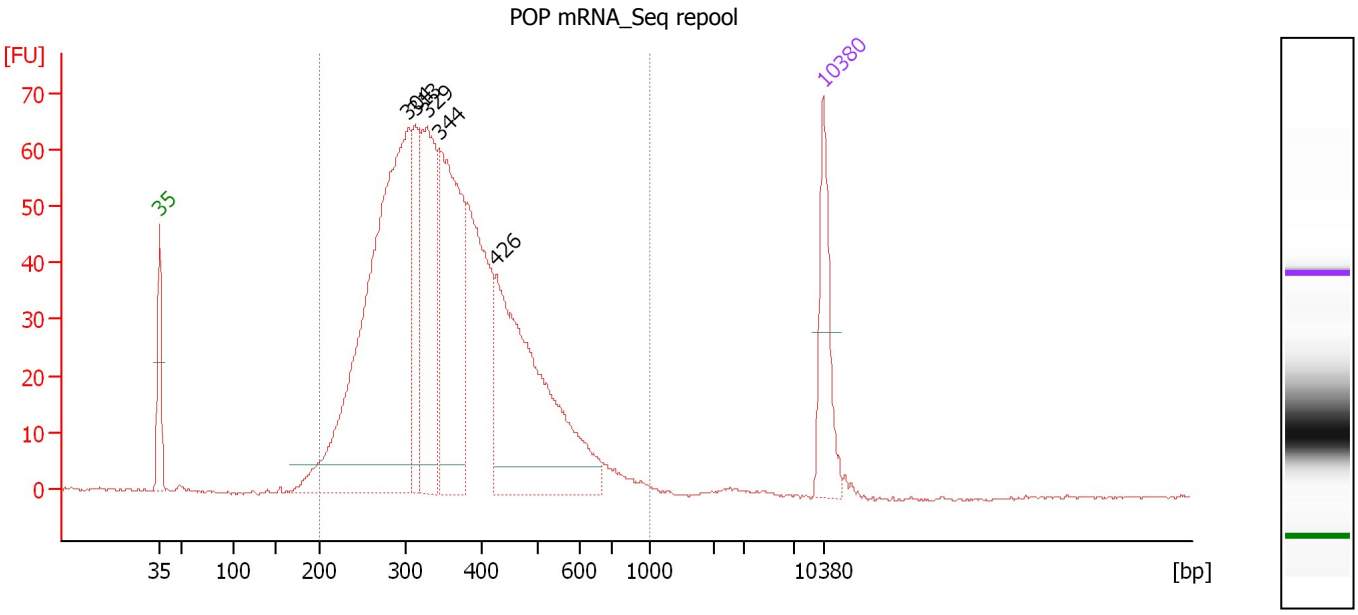
Region table for sample 10 : NovaSeq29_Pool A

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	527	3,652.17	2,487.4	11,440.2	95	26.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : POP mRNA_Seq repool

Number of peaks found:	5	Corr. Area 1:	1,361.2
Noise:	0.2		

Peak table for sample 11 : POP mRNA_Seq repool

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		304	763.06	3,800.2		69.24
3		313	107.93	522.0		69.97
4		329	247.12	1,139.7		71.20
5		344	312.34	1,373.8		72.49
6		426	386.20	1,373.0		78.51
7	▶	10,380	75.00	10.9	Upper Marker	113.00

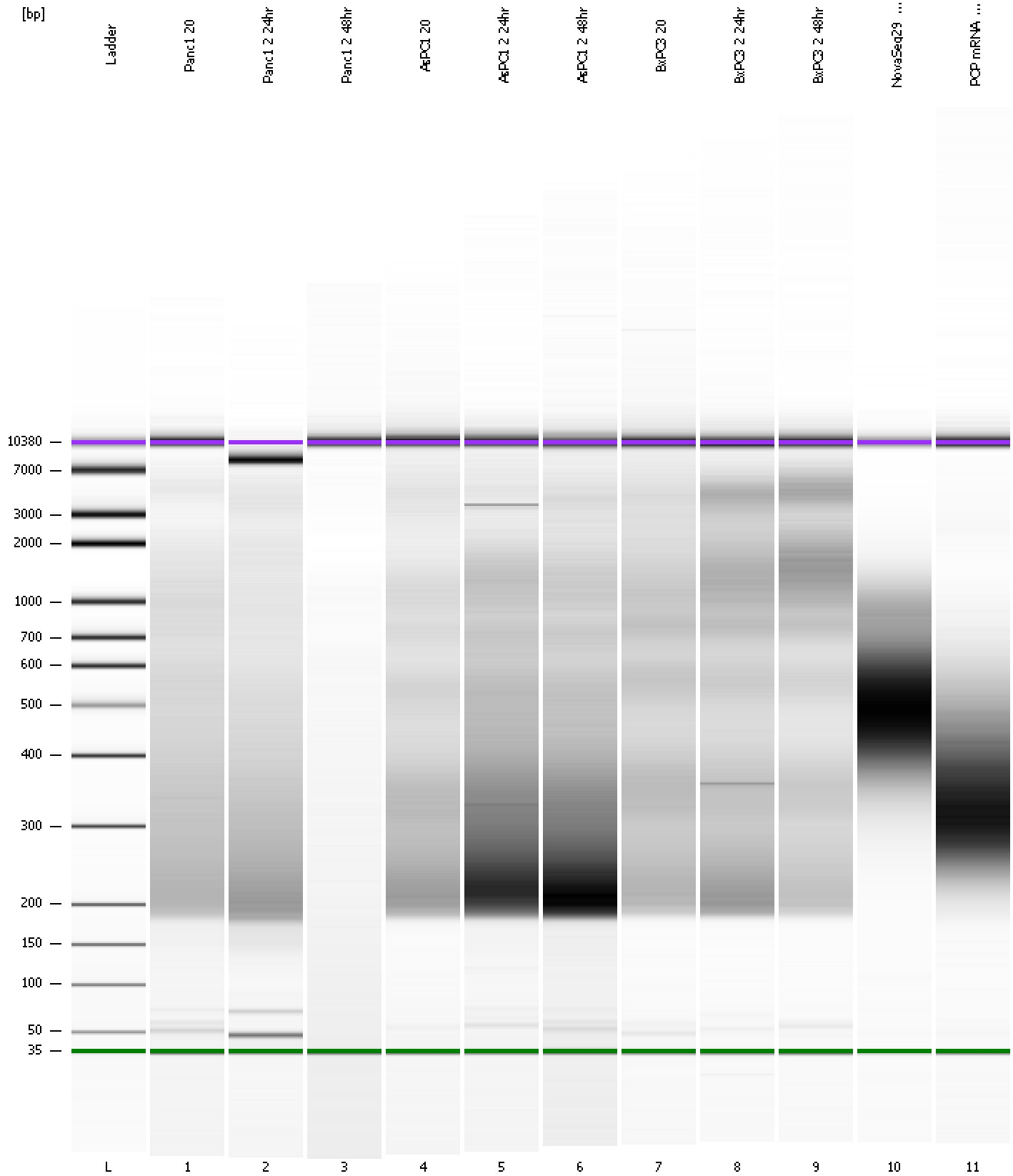
Region table for sample 11 : POP mRNA_Seq repool

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	365	2,047.44	1,361.2	9,288.4	99	27.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Gel Image

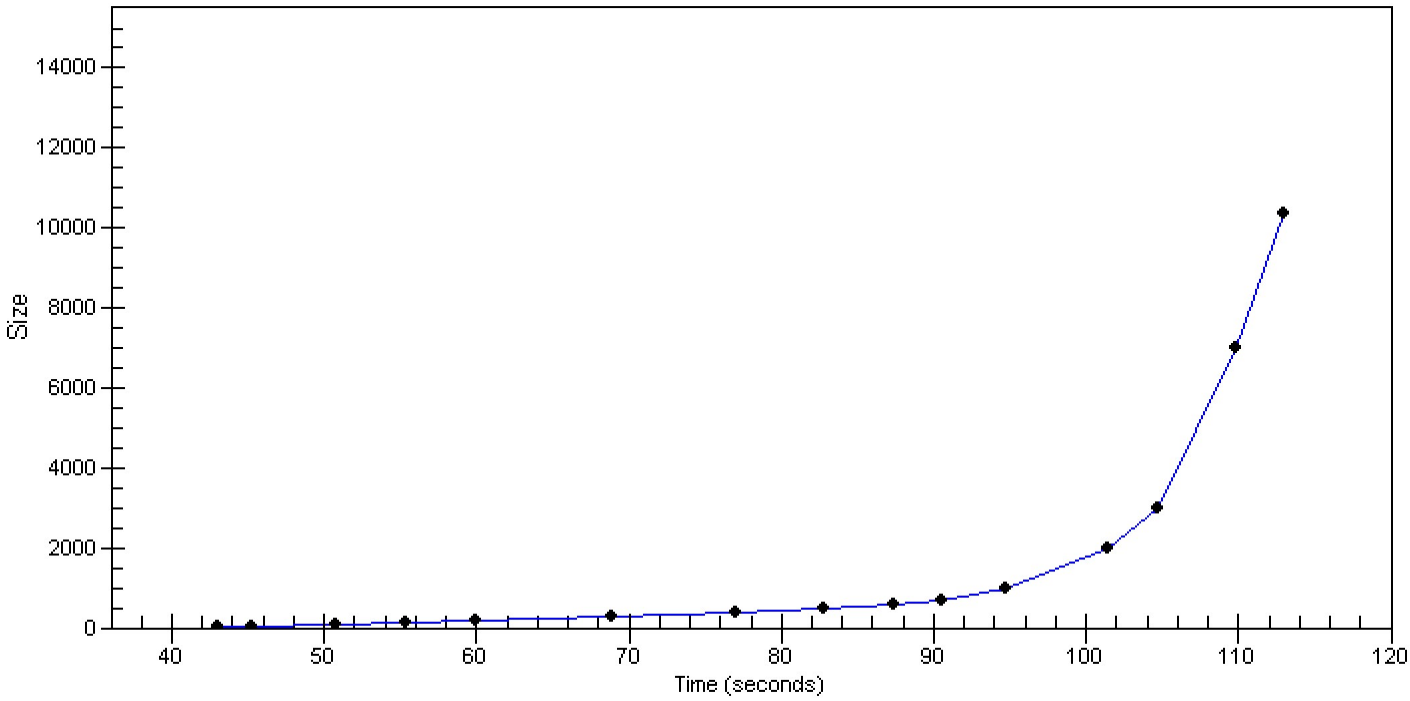


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2019-03-14\2019-03-14_001v2.xad

Created: 3/14/2019 10:01:15 AM
Modified: 3/14/2019 11:32:43 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		3/14/2019 10:42:34 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\2019-03-14\2019-03-14_001.xad)		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/14/2019 10:01:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1