2018-06-03_001.xad Page 1 of 16

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

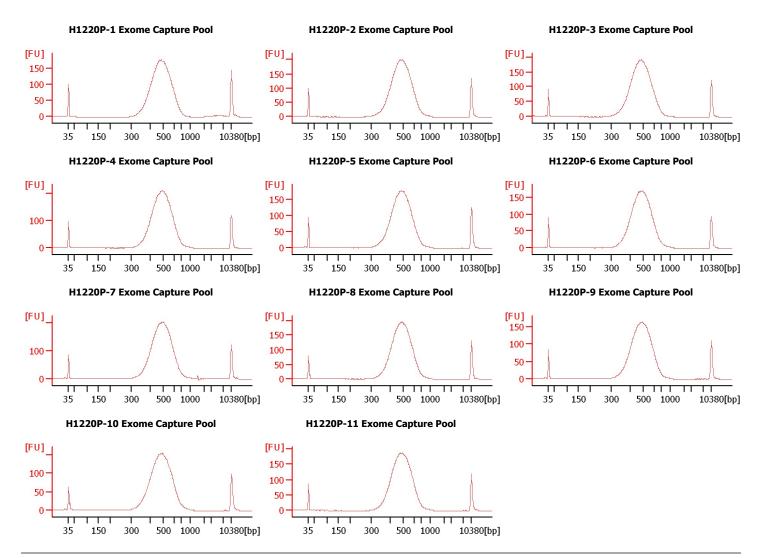
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



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Assay Class: High Sensitivity DNA Assay 6/3/2018 1:18:16 PM Created: C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Modified: 6/3/2018 1:59:35 PM Data Path: **Electrophoresis File Run Summary (Chip Summary)** Sample Comment Rest. Digest Status Observation **Result Label Result Color Sample Name** H1220P-1 Exome Capture Pool H1220P-2 Exome Capture Pool H1220P-3 Exome Capture Pool H1220P-4 Exome Capture Pool H1220P-5 Exome Capture Pool H1220P-6 Exome Capture Pool H1220P-7 Exome Capture Pool H1220P-8 Exome Capture Pool H1220P-9 Exome Capture Pool H1220P-10 Exome Capture Pool H1220P-11 Exome Capture Pool Ladder Chip Lot # Reagent Kit Lot #

Chip Comments:

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Assay Class: High Sensitivity DNA Assay

6/3/2018 1:18:16 PM Created: C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad 6/3/2018 1:59:35 PM Data Path: Modified:

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

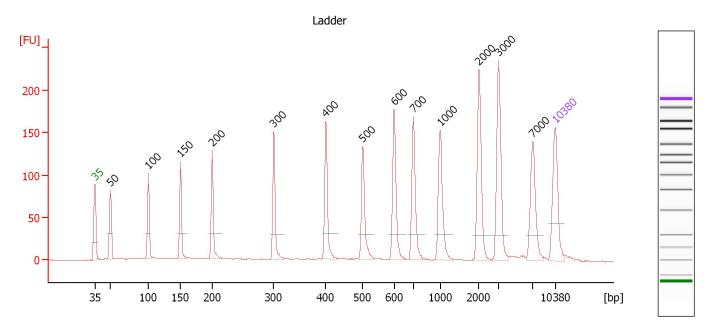
Ladder

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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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

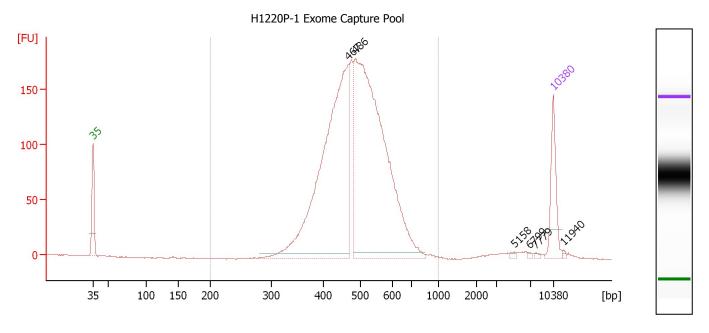
Peak table for Ladder

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		50	150.00	4,545.5	Ladder Peak	45.34
3		100	150.00	2,272.7	Ladder Peak	51.15
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	70.20
7	L	400	150.00	568.2	Ladder Peak	78.12
8		500	150.00	454.5	Ladder Peak	83.74
9	_	600	150.00	378.8	Ladder Peak	88.51
10	_	700	150.00	324.7	Ladder Peak	91.41
11		1,000	150.00	227.3	Ladder Peak	95.49
12	_	2,000	150.00	113.6	Ladder Peak	101.39
13	_	3,000	150.00	75.8	Ladder Peak	104.34
14		7,000	150.00	32.5	Ladder Peak	109.58
15		10,380	75.00	10.9	Upper Marker	113.00

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : <u>H1220P-1 Exome Capture Pool</u>

Number of peaks found: 6 Corr. Area 1: 2,354.6

Noise: 0.4

|--|

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		467	897.10	2,911.5		81.87
3		486	1,053.69	3,287.9		82.92
4		5,158	3.71	1.1		107.17
5		6,799	2.57	0.6		109.32
6		7,779	2.51	0.5		110.37
7		10,380	75.00	10.9	Upper Marker	113.00
8		11,940	0.00	0.0		114.58

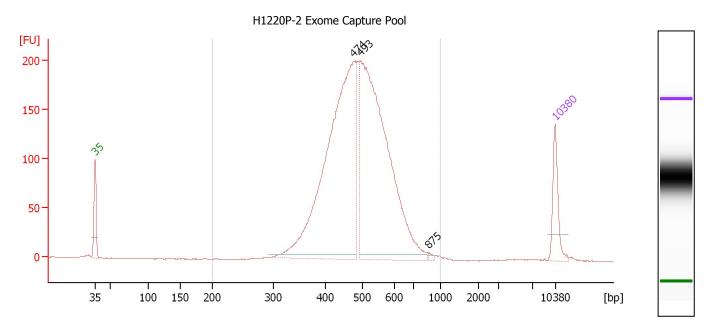
Region table for sample 1: <u>H1220P-1 Exome Capture Pool</u>

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	490	2,011.07	2,354.6	6,428.9	98	16.4

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : <u>H1220P-2 Exome Capture Pool</u>

Number of peaks found: 3 Corr. Area 1: 2,655.1

Noise: 0.3

Peak table for sample 2:			<u>H122</u>	H1220P-2 Exome Capture Pool				
D	C! [h]		/17		-			

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		474	1,178.77	3,764.9		82.30
3		493	1,127.20	3,462.3		83.36
4		875	4.88	8.5		93.79
5		10,380	75.00	10.9	Upper Marker	113.00

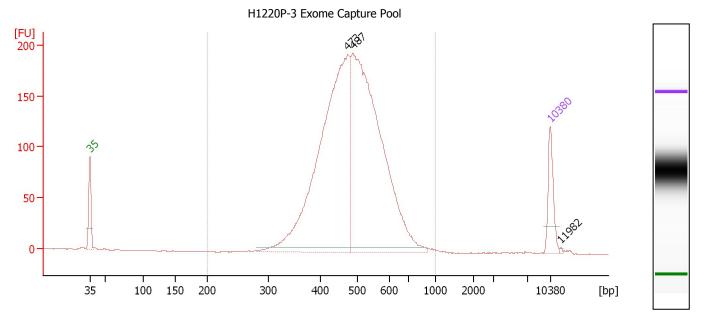
Region table for sample 2: <u>H1220P-2 Exome Capture Pool</u>

From	To [bp] Average Size	Conc.	Corr.	Molarity	Co % of	Size distribution in CV [%]
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	lor Total	
200	1.000 493	2 381 93	2 655 1	7 592 9	99	17 4

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : <u>H1220P-3 Exome Capture Pool</u>

Number of peaks found: 3 Corr. Area 1: 2,564.4

Peak table for sample 3:	H1220P-3 Exome Capture Pool

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		473	1,277.73	4,092.5		82.22
3		487	1,298.92	4,040.9		83.01
4		10,380	75.00	10.9	Upper Marker	113.00
5		11,982	0.00	0.0		114.62

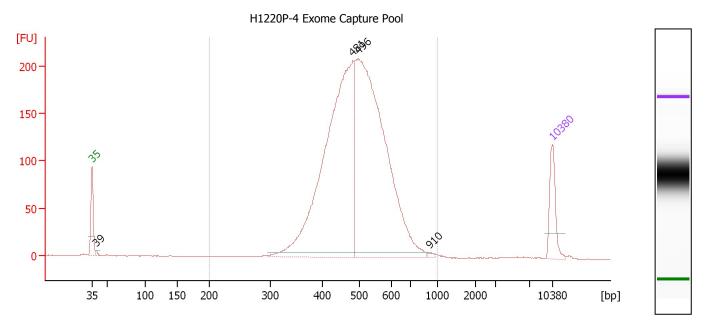
Region table for sample 3:	H1220P-3 Exome Capture Pool
----------------------------	-----------------------------

From	To [bp] Average Size	Conc.	Corr.	Molarity	Co % of	Size distribution in CV [%]
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	lor Total	
200	1.000 489	2 528 59	2 564 4	8 125 3	99	17 2

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : <u>H1220P-4 Exome Capture Pool</u>

Number of peaks found: 4 Corr. Area 1: 2,704.6

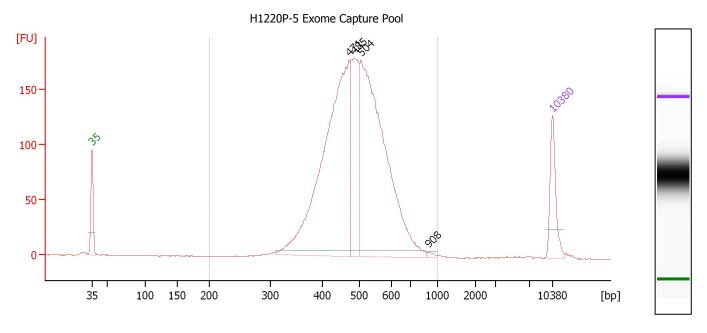
Peak table for sample 4: <u>H1</u>				20P-4 Exome Captur	e Pool	
Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		39	7.57	295.4		43.60
3		481	1,207.82	3,804.2		82.67
4		496	1,275.49	3,894.9		83.52
5		910	5.66	9.4		94.26
6		10,380	75.00	10.9	Upper Marker	113.00
Regi	on t	table for sar	mnle 4 : H	1220P-4 Fyome Cant	ure Pool	

					_	
From	To [bp] Average Size	Conc.	Corr.	Molarity	Co % of	Size distribution in
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	<u>lor</u> Total	CV [%]
200	1.000 496	2.467.58	2 704 6	7 808 2	99	17 1

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : <u>H1220P-5 Exome Capture Pool</u>

2,043.18

Number of peaks found: 4 Corr. Area 1: 2,339.9

Noise: 0.3

Pea	ak tal	ole for samp	le 5 :	H1220P-5	11220P-5 Exome Capture Pool				
Pea k	1	Size [bp]	Conc. [pg	J/μl] Mo	olarity [pmol/l] Observ	ations	Aligned Migration Time [s]	
1	- ∢	35	125.00	5,4	11.3	Lower N	1arker	43.00	
2		471	884.22	2,8	344.7			82.10	
3		485	265.47	828	8.5			82.92	
4		504	837.80	2,5	517.3			83.94	
5		908	4.43	7.4	ŀ			94.24	
6		10,380	75.00	10	.9	Upper N	1arker	113.00	
Re	Region table for sample 5 : <u>H1220P-5 Exome Capture Pool</u>								
Fro		To [bp] Ave	_	Conc. [pg/ul]		lolarity pmol/l1	Co % of lor Total	Size distribution in CV [%]	

2,339.9

6,531.9

98

17.5

200

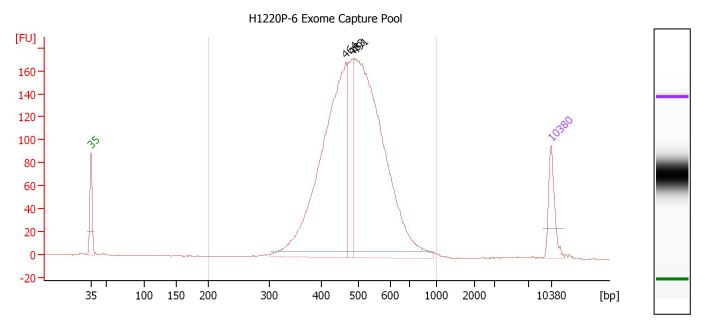
1,000

492

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : <u>H1220P-6 Exome Capture Pool</u>

Number of peaks found: 3 Corr. Area 1: 2,247.7

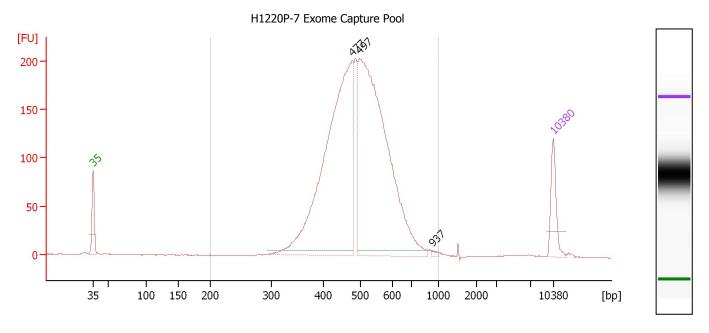
Peak	eak table for sample 6: <u>H1220P-6 Exome Capture Pool</u>								
Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]			
1	4	35	125.00	5,411.3	Lower Marker	43.00			
2		464	1,034.16	3,373.6		81.74			
3		483	214.26	672.2		82.78			
4		491	1,216.91	3,753.2		83.24			
5		10,380	75.00	10.9	Upper Marker	113.00			
D:	Posicar table for comple C								

Region	table for sample 6:	HIZZU	H122UP-6 Exome Capture Pool				
From	To [bp] Average Size		Corr.	Molarity	Co % of	Size distribution in	
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	<u>lor</u> Total	CV [%]	
200	1,000 494	2,427.00	2,247.7	7,733.9	99	17.6	

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7: <u>H1220P-7 Exome Capture Pool</u>

Number of peaks found: 3 Corr. Area 1: 2,638.2

Peak	Peak table for sample 7: <u>H1220P-7 Exome Capture Pool</u>								
Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/I]	Observations	Aligned Migration Time [s]			
1	4	35	125.00	5,411.3	Lower Marker	43.00			
2		477	1,238.86	3,936.5		82.43			
3		497	1,311.83	4,002.7		83.54			

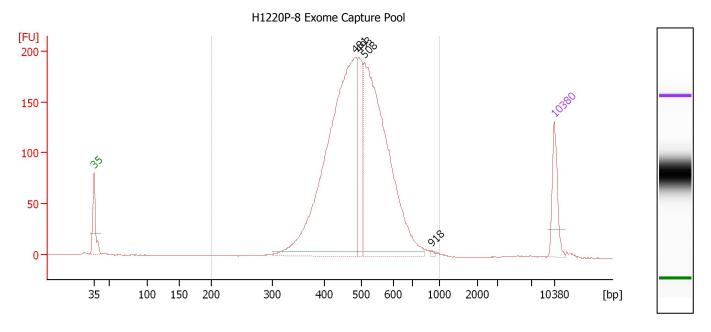
Region table for sample 7:			ample 7:	H1220P-7 Exome Capture Pool			
5		10,380	75.00	10.9	Upper Marker	113.00	
4		937	4.15	6.7		94.63	
3		497	1,311.83	4,002.7		83.54	
2		4//	1,238.86	3,936.5		82.43	

From	To [bp] Average Size	Conc.	Corr.	Molarity	Co % of	Size distribution in CV [%]
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	lor Total	
200	1 000 497	2 694 61	2 638 2	8 522 2	99	17 3

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : <u>H1220P-8 Exome Capture Pool</u>

Number of peaks found: 4 Corr. Area 1: 2,461.9

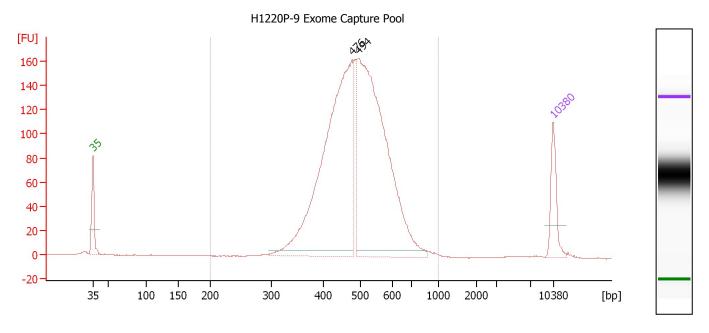
Peak	Peak table for sample 8:			20P-8 Exome Captur	<u>e Pool</u>	
Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		481	1,201.73	3,781.7		82.70
3		493	180.31	554.3		83.34
4		508	941.70	2,806.6		84.14
5		918	3.09	5.1		94.38
6	•	10,380	75.00	10.9	Upper Marker	113.00
Doni	on t	able for sar	nnla R · H	1220D-8 Evome Cant	ura Pool	

Region table for sample o .			HILLEUP	-O LAUITIC	Capture Foo	<u>.</u>	
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	494	2,352.44	2,461.9	7,471.5	99	17.1

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Aligned Migration Time [s]

Overall Results for sample 9 : <u>H1220P-9 Exome Capture Pool</u>

Number of peaks found: 2 Corr. Area 1: 2,147.7

Peak ta	ble for samp	le 9: <u>H122</u>	<u> OP-9 Exome Captur</u>	<u>e Pool</u>
Pea	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations

k						
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		476	1,079.86	3,437.6		82.39
3		494	1,102.33	3,379.9		83.41
4	I	10 380	75 00	10 9	Upper Marker	113 00

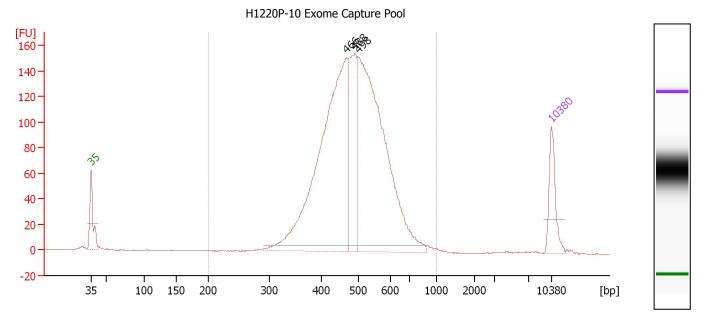
Region table for sample 9:	H1220P-9 Exome Capture Pool
----------------------------	-----------------------------

From	To [bp] Average Size	Conc.	Corr.	Molarity	Co % of	Size distribution in CV [%]
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	lor Total	
200	1 000 403	2 265 05	2 1/17 7	7 220 5	OQ.	17.6

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : <u>H1220P-10 Exome Capture Pool</u>

Number of peaks found: 3 Corr. Area 1: 2,064.3

Noise: 0.2

Peak table for sample 10:	H1220P-10 Exome Capture Pool
---------------------------	------------------------------

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		466	982.91	3,194.0		81.84
3		488	269.24	835.2		83.09
4		498	936.05	2,847.6		83.63
5		10,380	75.00	10.9	Upper Marker	113.00

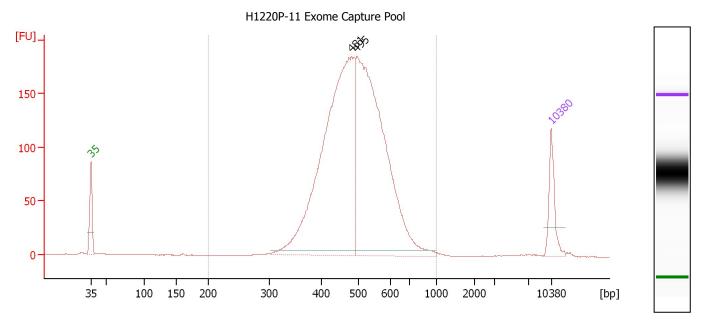
Region table for sample 10 : <u>H1220P-10 Exome Capture Pool</u>

From	To [bp] Average S	Size Conc.	Corr.	Molarity	Co % of	Size distribution in CV [%]
[bp]	[bp]	[pg/µl]	Area	[pmol/l]	lor Total	
200	1 000 491	2 206 13	2 064 3	7 100 0	98	18 1

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Assay Class: High Sensitivity DNA Assay C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:18:16 PM Modified: 6/3/2018 1:59:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 11: <u>H1220P-11 Exome Capture Pool</u>

Number of peaks found: 2 Corr. Area 1: 2,396.8

Noise: 0.2

Peak table for sample 11: <u>H1220P-11 Exome Capture Pool</u>

Pea k		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	4	35	125.00	5,411.3	Lower Marker	43.00
2		481	1,267.57	3,993.4		82.66
3		495	1,168.90	3,581.3		83.43
4		10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11: <u>H1220P-11 Exome Capture Pool</u>

From [bp]			Conc. [pg/µl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	494	2,440.34	2,396.8	7,759.1	99	17.4

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Assay Class: High Sensitivity DNA Assay Created: 6/3/2018 1:18:16 PM C:\... bioanalyzer\2100 expert\data\2018-06-03\2018-06-03_001.xad Created: 6/3/2018 1:59:35 PM

Gel Image