

Peak Data										Normalized Peak Area							
No.	Label	Size	Ref. size	Size diff.	MRC size	Height	Width	Area	Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Ratio	Dist. in SD	1.0 low high	
5	64 -	61.38	61.20	0.18	64	792	15.6	12352	0.846	0.897	0.243	0.68	64 nt	0.94	-0.2	.	
6	70 -	67.11	66.91	0.20	70	678	18.8	12767	0.874	0.751	0.145	0.96	70 nt	1.16	0.8		
7	76 -	72.63	72.54	0.09	76	680	23.1	15710	1.075	1.111	0.183	1.12	76 nt	0.97	-0.2	.	
8	82 -	78.67	78.43	0.24	82	965	18.2	17603	1.205	1.241	0.185	1.24	82 nt	0.97	-0.2	.	
Ctrl: Q-fragments					Mean	779	18.9	14608	1.000	1.000	0.189	1.00	(CV: 0.10)	1.01			
10	2 A	90.25	90.17	0.08	94	2865	9.6	27468	0.861	0.993	0.108	1.00	2q14 synt.	0.87	-1.2	.	
Synthetic control probe					Mean	2865	9.6	27468	0.861	0.993	0.108	1.00	(CV:)	0.87			
14	13 A	145.94	145.92	0.02	148	4954	9.3	45925	1.439	1.437	0.075	1.29	13q32.1	1.00	0.0	.	
19	13 A	177.35	177.35	0.00	178	4063	9.3	37720	1.182	0.990	0.072	0.92	13q13.3	1.19	2.7		
24	13 B	218.86	218.82	0.04	220	4941	9.6	47352	1.332	1.332	0.076	1.18	13q14.2	1.00	0.0	.	
29	13 B	262.54	262.45	0.09	265	3047	9.9	30141	0.848	0.951	0.069	0.92	13q21.33	0.89	-1.5	.	
34	13 C	310.05	309.93	0.12	310	2888	10.3	29850	1.157	1.315	0.084	1.05	13q34	0.88	-1.9	.	
38	13 C	355.30	355.19	0.11	355	2434	11.7	28421	1.102	1.209	0.069	1.18	13q13.1	0.91	-1.6	.	
42	13 D	398.48	398.39	0.09	400	2855	11.2	32082	1.147	1.278	0.110	0.78	13q14.2	0.90	-1.2	.	
46	13 D	442.65	442.59	0.06	445	2264	11.9	27009	0.966	0.990	0.097	0.68	13q34	0.98	-0.2	.	
Chromosome 13					Mean	3431	10.4	34813	1.147	1.188	0.081	1.00	(CV: 0.10)	0.97			
13	18 A	140.05	140.07	-0.02	142	5558	9.4	52423	1.643	1.531	0.090	1.13	18q21.1	1.07	1.2	.	
18	18 A	170.82	170.78	0.04	172	3537	9.5	33517	1.051	1.112	0.083	0.90	18q21.32	0.95	-0.7	.	
23	18 B	209.88	209.88	0.00	211	4164	9.8	40667	1.144	1.191	0.072	1.10	18q11.2	0.96	-0.7	.	
28	18 B	252.82	252.77	0.05	256	5311	10.0	53159	1.496	1.489	0.074	1.35	18q23	1.00	0.1	.	
33	18 C	298.92	298.88	0.04	301	2722	10.4	28332	1.098	1.238	0.088	0.93	18p11.32	0.89	-1.6	.	
37	18 C	346.23	346.18	0.05	346	1651	10.8	17806	0.690	0.680	0.058	0.79	18q21.33	1.02	0.2	.	
41	18 D	390.03	389.97	0.06	391	3496	11.3	39344	1.407	1.473	0.094	1.04	18q11.2	0.96	-0.7	.	
45	18 D	433.97	433.86	0.11	436	2912	11.7	33983	1.215	1.140	0.099	0.76	18p11.21	1.07	0.8	.	
Chromosome 18					Mean	3669	10.4	37404	1.218	1.232	0.082	1.00	(CV: 0.06)	0.99			
12	21 A	133.00	132.90	0.10	136	4436	9.6	42385	1.329	1.526	0.080	1.23	21q22.13	0.87	-2.5	.	
17	21 A	164.59	164.56	0.03	166	4337	9.5	41382	1.297	1.248	0.081	1.00	21q21.1	1.04	0.6	.	
22	21 B	200.82	200.81	0.01	202	4109	9.5	39201	1.103	1.272	0.082	1.00	21q21.1	0.87	-2.1	.	
27	21 B	245.42	245.33	0.09	247	3538	10.0	35419	0.996	1.048	0.048	1.40	21q11.2	0.95	-1.1	.	
32	21 C	289.21	289.12	0.09	292	2506	10.1	25404	0.985	1.167	0.072	1.04	21q22.11	0.84	-2.5	.	
36	21 C	337.55	337.42	0.13	337	2425	10.9	26502	1.027	1.008	0.094	0.69	21q21.3	1.02	0.2	.	
40	21 D	381.43	381.44	-0.01	382	2313	10.9	25212	0.902	1.051	0.078	0.87	21q22.3	0.86	-1.9	.	
44	21 D	424.78	424.65	0.13	427	2215	12.2	27066	0.968	1.005	0.083	0.78	21q22.11	0.96	-0.4	.	
Chromosome 21					Mean	3235	10.4	32821	1.076	1.166	0.077	1.00	(CV: 0.08)	0.92			
15	X A	152.74	152.75	-0.01	154	3789	9.6	36466	1.143	0.624	0.047	1.17	Xq12	1.83	10.9*		
20	X A	183.62	183.64	-0.02	184	3412	9.4	32070	1.005	0.504	0.048	0.94	Xq23	2.00	10.5*		
25	X B	228.59	228.55	0.04	229	4897	9.7	47686	1.342	0.649	0.052	1.11	Xp21.3	2.07	13.4*		
30	X B	271.64	271.57	0.07	274	4405	10.0	44115	1.241	0.666	0.054	1.10	Xp11.4	1.86	10.7*		
35	X C	317.78	317.74	0.04	319	2416	11.2	26974	1.045	0.606	0.057	0.94	Xq28	1.73	7.7*		
39	X C	362.51	362.44	0.07	364	3800	10.8	40878	1.584	0.776	0.076	0.91	Xp22.12	2.04	10.7*		
43	X D	407.89	407.76	0.13	409	2709	11.5	31206	1.116	0.596	0.051	1.04	Xq25	1.87	10.2*		
47	X D	451.39	451.33	0.06	454	2263	12.0	27079	0.968	0.467	0.053	0.79	Xp21.1	2.07	9.5*		
Chromosome X					Mean	3461	10.5	35809	1.181	0.611	0.055	1.00	(CV: 0.07)	1.93	P= 0.000%		
16	Y A	158.49	158.46	0.03	160	1668	9.7	16134	0.506	0.588	0.064	0.88	Yp11.31	0.86	-1.3	.	
21	Y A	191.66	191.66	0.00	193	1655	9.5	15663	0.491	0.446	0.070	0.61	Yp11.31	1.10	0.6	.	
26	Y B	238.08	238.00	0.08	238	2507	9.8	24578	0.691	0.629	0.074	0.82	Yq11.21	1.10	0.8	.	
31	Y B	280.57	280.49	0.08	283	2395	9.9	23718	0.667	0.772	0.044	1.68	Yp11.3	0.86	-2.4	.	
Chromosome Y					Mean	2056	9.7	20023	0.589	0.609	0.063	1.00	(CV: 0.14)	0.95			
Mean values				0.06		3283	10.3	33360	1.086	1.000	0.074	2		1.17	Total of all except		
Standard deviations				0.04		(Coef. of variance:	0.285)		0.271	0.328				0.42	Ctrl and '?' peaks		

Quality assessment	Quality limits	Quality
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	2.18
Mean height of first probes AB	> 450 (800)	3790
Mean height of last probes CD	> 280 (500)	2617
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.45
Mean group CV of weighted ratio	<0.20 (0.15)	0.08
1 unidentified peak area / 37 peak areas	< (0.02)	0.00

The weighted mean ratios are tested for being outside ratio
 1 ± 0.10 for chromosome 13, 18, 21 and female X
 1 ± 0.13 for male X and 1 ± 0.24 for Y.
 (One-tailed significance is high for $p \leq 1\%$, and low for $p \leq 5\%$)

High significance P= 0.000%

Male Reference

Male with extra X

An *** marks: Size Diff.>0.5, Peak Height>7000, unexpected peak width, and "Dist. in SD">4.0.
 Ratio group mean and coefficient of variance (CV) are weighted by the ref. weights
 Labels A,B,... define normalization groups; a,b,... labeled probes do not contribute to normalization.
 Mean Rox height is 205 (15 peaks). 100*CV of ROX heights for peaks above 100 nt is: 11.77

Ratio 1.93 is found. Theoretically 'Male with extra X' has ratio 2.0