

Peak Data										Normalized Peak Area							
No.	Label	Size	Ref. size	Size diff.	MRC size	Height	Width	Area	Peak Area	Ref. Mean	Ref. SD	Ref. Weigh	Position p-tel band	Dist. Ratio	1.0 in SD	low high	
9	64 -	61.10	61.20	-0.10	64	255	16.1	4100	0.755	0.911	0.156	0.89	64 nt	0.83	-1.0	-	
10	70 -	66.94	66.91	0.03	70	271	16.7	4519	0.832	0.782	0.147	0.81	70 nt	1.06	0.3	-	
11	76 -	72.78	72.54	0.24	76	350	19.5	6808	1.253	1.126	0.128	1.34	76 nt	1.11	1.0	-	
13	82 -	78.57	78.43	0.14	82	308	20.5	6299	1.160	1.178	0.184	0.97	82 nt	0.98	-0.1	-	
Ctrl: Q-fragments					Mean	296	18.2	5432	1.000	0.999	0.154	1.00	(CV: 0.12)	1.01			
15	2 A	90.23	90.17	0.06	94	4811	10.6	50945	1.074	0.786	0.064	1.00	2q14 synt.	1.37	4.5 *		
Synthetic control probe					Mean	4811	10.6	50945	1.074	0.786	0.064	1.00	(CV:)	1.37			
19	13 A	145.97	145.92	0.05	148	4584	11.7	53611	1.130	1.167	0.051	1.48	13q32.1	0.97	-0.7	-	
23	13 A	177.31	177.35	-0.04	178	2873	12.7	36375	0.767	0.852	0.062	0.89	13q13.3	0.90	-1.4	-	
27	13 B	218.84	218.82	0.02	220	2612	14.3	37456	1.100	1.077	0.050	1.40	13q14.2	1.02	0.5	-	
32	13 B	262.54	262.45	0.09	265	1368	16.2	22222	0.653	0.777	0.057	0.88	13q21.33	0.84	-2.2	-	
36	13 C	309.63	309.93	-0.30	310	961	18.5	17778	1.104	1.125	0.067	1.09	13q34	0.98	-0.3	-	
40	13 C	355.60	355.19	0.41	355	675	21.2	14286	0.887	1.017	0.073	0.90	13q13.1	0.87	-1.8	-	
44	13 D	398.75	398.39	0.36	400	631	22.2	14037	1.195	1.094	0.120	0.59	13q14.2	1.09	0.8	-	
48	13 D	443.34	442.59	0.75 *	445	399	24.5	9770	0.832	0.855	0.074	0.75	13q34	0.97	-0.3	-	
Chromosome 13					Mean	1763	17.7	25692	0.958	0.995	0.069	1.00	(CV: 0.08)	0.96			
18	18 A	140.16	140.07	0.09	142	4997	11.7	58650	1.236	1.236	0.061	1.25	18q21.1	1.00	0.0	-	
22	18 A	170.71	170.78	-0.07	172	3211	12.6	40459	0.853	0.868	0.073	0.73	18q21.32	0.98	-0.2	-	
26	18 B	210.01	209.88	0.13	211	2636	14.1	37283	1.095	0.965	0.041	1.44	18q11.2	1.13	3.1	-	
31	18 B	252.98	252.77	0.21	256	2419	16.0	38665	1.135	1.191	0.057	1.29	18q23	0.95	-1.0	-	
35	18 C	298.90	298.88	0.02	301	1070	17.8	19027	1.182	1.037	0.066	0.97	18p11.32	1.14	2.2	-	
39	18 C	346.08	346.18	-0.10	346	486	19.9	9675	0.601	0.607	0.060	0.63	18q21.33	0.99	-0.1	-	
43	18 D	390.33	389.97	0.36	391	805	21.9	17595	1.498	1.276	0.079	0.99	18q11.2	1.17	2.8	-	
47	18 D	434.31	433.86	0.45	436	479	23.4	11187	0.952	1.055	0.094	0.69	18p11.21	0.90	-1.1	-	
Chromosome 18					Mean	2013	17.2	29068	1.069	1.030	0.066	1.00	(CV: 0.10)	1.04			
17	21 A	133.01	132.90	0.11	136	7444 *	11.8	88047	1.856	1.169	0.115	0.71	21q22.13	1.59	6.0 *		
21	21 A	164.69	164.56	0.13	166	5166	12.3	63751	1.344	1.046	0.070	1.04	21q21.1	1.28	4.3 *		
25	21 B	200.92	200.81	0.11	202	4100	13.7	56181	1.650	1.026	0.067	1.07	21q21.1	1.61	9.3 *		
30	21 B	245.43	245.33	0.10	247	2622	15.8	41494	1.218	0.851	0.046	1.28	21q11.2	1.43	8.0 *		
34	21 C	289.19	289.12	0.07	292	1455	17.6	25583	1.589	1.000	0.099	0.70	21q22.11	1.59	5.9 *		
38	21 C	337.09	337.42	-0.33	337	991	19.8	19622	1.219	0.884	0.070	0.88	21q21.3	1.38	4.8 *		
42	21 D	381.64	381.44	0.20	382	775	21.7	16821	1.432	0.931	0.056	1.16	21q22.3	1.54	9.0 *		
46	21 D	424.84	424.65	0.19	427	527	23.8	12547	1.068	0.911	0.055	1.15	21q22.11	1.17	2.8	-	
Chromosome 21					Mean	2885	17.1	40506	1.422	0.977	0.072	1.00	(CV: 0.11)	1.44	P= 0.03%		
20	X A	152.87	152.75	0.12	154	3979	12.2	48573	1.024	1.049	0.065	1.11	Xq12	0.98	-0.4	-	
24	X A	183.64	183.64	0.00	184	2639	12.9	34023	0.717	0.828	0.056	1.01	Xq23	0.87	-2.0	-	
28	X B	228.60	228.55	0.05	229	2431	14.9	36317	1.066	1.079	0.067	1.10	Xp21.3	0.99	-0.2	-	
33	X B	271.64	271.57	0.07	274	2005	16.5	33110	0.972	1.034	0.050	1.41	Xp11.4	0.94	-1.2	-	
37	X C	317.48	317.74	-0.26	319	906	19.8	17953	1.115	1.039	0.113	0.63	Xq28	1.07	0.7	-	
41	X C	362.71	362.44	0.27	364	923	20.8	19178	1.191	1.291	0.083	1.07	Xp22.12	0.92	-1.2	-	
45	X D	408.04	407.76	0.28	409	579	22.7	13153	1.120	1.061	0.097	0.75	Xq25	1.05	0.6	-	
49	X D	451.69	451.33	0.36	454	388	24.0	9328	0.794	0.816	0.061	0.92	Xp21.1	0.97	-0.4	-	
Chromosome X					Mean	1731	18.0	26454	1.000	1.024	0.074	1.00	(CV: 0.06)	0.97			
	Y a		158.46		160					0.588			Yp11.31				
	Y a		191.66		193					0.446			Yp11.31				
	Y b		238.00		238					0.629			Yq11.21				
	Y b		280.49		283					0.772			Yp11.3				
Chromosome Y					Mean					1.00			(CV:)				

Mean values 0.12 2180 17.3 31052 1.111 1.000 0.070 **Note: High CV of ROX peaks** 1.11 Total of all except
Standard deviations 0.22 (Coef. of variance: 0.613) 0.282 0.157 ----- 0.23 Ctrl and '?' peaks

Quality assessment **Quality limits** **Quality**
 Mean A-group area / mean Q-frag. area >0.65 (1.50) 8.73
 Mean height of first probes AB > 450 (800) 3523
 Mean height of last probes CD > 280 (500) 753
 Ratio of mean heights AB/CD ('slope') <3.00 (2.50) 4.68 **Too high!**
 Mean group CV of weighted ratio <0.20 (0.15) 0.09
 2 unidentified peak areas / 33 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<=1%, and low for p<=5%)

High significance P= 0.031% **Female Reference**
BAD: Too high slope!

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 110 (15 peaks). CV of ROX heights for peaks above 100 nt is: 0.19 (High!) **Poor Quality!**

Ratio 1.44 is found. Theoretically 'Trisomy 21' has ratio 1.5