

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	
12	64 -	59.86	61.20	-1.34 *	64	212	16.0	3394	0.867	0.911	0.156	0.89	64 nt	0.95	-0.3	.	
13	70 -	66.05	66.91	-0.86 *	70	127	22.4	2847	0.727	0.782	0.147	0.81	70 nt	0.93	-0.4	.	
14	76 -	72.37	72.54	-0.17	76	319	16.7	5319	1.358	1.126	0.128	1.34	76 nt	1.21	1.8		
17	82 -	78.42	78.43	-0.01	82	205	20.0	4107	1.049	1.178	0.184	0.97	82 nt	0.89	-0.7	.	
Ctrl: Q-fragments					Mean	216	18.8	3917	1.000	0.999	0.154	1.00	(CV: 0.15)	1.02			
19	2 A	90.45	90.17	0.28	94	967	10.1	9719	0.757	0.786	0.064	1.00	2q14 synt.	0.96	-0.4	.	
Synthetic control probe					Mean	967	10.1	9719	0.757	0.786	0.064	1.00	(CV:)	0.96			
22	13 A	146.04	145.92	0.12	148	2193	9.8	21569	1.681	1.167	0.051	1.48	13q32.1	1.44	10.1 *		
26	13 A	177.33	177.35	-0.02	178	1565	10.0	15580	1.214	0.852	0.062	0.89	13q13.3	1.43	5.9 *		
30	13 B	218.89	218.82	0.07	220	2116	10.4	21960	1.529	1.077	0.050	1.40	13q14.2	1.42	9.1 *		
34	13 B	262.51	262.45	0.06	265	1550	10.9	16937	1.179	0.777	0.057	0.88	13q21.33	1.52	7.0 *		
38	13 C	309.98	309.93	0.05	310	1422	11.4	16252	1.611	1.125	0.067	1.09	13q34	1.43	7.3 *		
42	13 C	355.22	355.19	0.03	355	1169	13.1	15327	1.519	1.017	0.073	0.90	13q13.1	1.49	6.9 *		
47	13 D	398.53	398.39	0.14	400	1422	12.6	17980	1.709	1.094	0.120	0.59	13q14.2	1.56	5.1 *		
51	13 D	442.70	442.59	0.11	445	1056	13.7	14417	1.370	0.855	0.074	0.75	13q34	1.60	6.9 *		
Chromosome 13					Mean	1562	11.5	17503	1.477	0.995	0.069	1.00	(CV: 0.04)	1.47		P= 0.000%	
21	18 A	140.20	140.07	0.13	142	1522	9.7	14769	1.151	1.236	0.061	1.25	18q21.1	0.93	-1.4	.	
25	18 A	170.82	170.78	0.04	172	1333	10.2	13579	1.058	0.868	0.073	0.73	18q21.32	1.22	2.6		
29	18 B	209.92	209.88	0.04	211	1314	10.9	14366	1.000	0.965	0.041	1.44	18q11.2	1.04	0.8	.	
33	18 B	252.92	252.77	0.15	256	1601	10.9	17391	1.211	1.191	0.057	1.29	18q23	1.02	0.3	.	
37	18 C	298.95	298.88	0.07	301	908	11.5	10450	1.036	1.037	0.066	0.97	18p11.32	1.00	0.0	.	
41	18 C	346.19	346.18	0.01	346	573	12.0	6901	0.684	0.607	0.060	0.63	18q21.33	1.13	1.3	.	
46	18 D	390.07	389.97	0.10	391	1065	12.7	13572	1.290	1.276	0.079	0.99	18q11.2	1.01	0.2	.	
50	18 D	434.03	433.86	0.17	436	731	13.0	9505	0.903	1.055	0.094	0.69	18p11.21	0.86	-1.6	.	
Chromosome 18					Mean	1131	11.4	12567	1.042	1.030	0.066	1.00	(CV: 0.10)	1.02			
20	21 A	132.98	132.90	0.08	136	1551	10.0	15460	1.205	1.169	0.115	0.71	21q22.13	1.03	0.3	.	
24	21 A	164.62	164.56	0.06	166	1314	10.0	13196	1.028	1.046	0.070	1.04	21q21.1	0.98	-0.3	.	
28	21 B	200.80	200.81	-0.01	202	1363	10.3	13994	0.974	1.026	0.067	1.07	21q21.1	0.95	-0.8	.	
32	21 B	245.41	245.33	0.08	247	1128	10.9	12278	0.855	0.851	0.046	1.28	21q11.2	1.00	0.1	.	
36	21 C	289.29	289.12	0.17	292	886	11.3	10028	0.994	1.000	0.099	0.70	21q22.11	0.99	-0.1	.	
40	21 C	337.45	337.42	0.03	337	679	11.7	7931	0.786	0.884	0.070	0.88	21q21.3	0.89	-1.4	.	
45	21 D	381.47	381.44	0.03	382	736	12.4	9117	0.866	0.931	0.056	1.16	21q22.3	0.93	-1.2	.	
49	21 D	424.76	424.65	0.11	427	670	13.4	8951	0.851	0.911	0.055	1.15	21q22.11	0.93	-1.1	.	
Chromosome 21					Mean	1041	11.2	11369	0.945	0.977	0.072	1.00	(CV: 0.05)	0.96			
23	X A	152.90	152.75	0.15	154	1342	9.9	13319	1.038	1.049	0.065	1.11	Xq12	0.99	-0.2	.	
27	X A	183.58	183.64	-0.06	184	1029	10.0	10272	0.800	0.828	0.056	1.01	Xq23	0.97	-0.5	.	
31	X B	228.58	228.55	0.03	229	1392	10.5	14554	1.013	1.079	0.067	1.10	Xp21.3	0.94	-1.0	.	
35	X B	271.68	271.57	0.11	274	1409	10.9	15311	1.066	1.034	0.050	1.41	Xp11.4	1.03	0.6	.	
39	X C	317.82	317.74	0.08	319	736	12.5	9168	0.909	1.039	0.113	0.63	Xq28	0.87	-1.1	.	
43	X C	362.45	362.44	0.01	364	1068	12.2	13023	1.291	1.291	0.083	1.07	Xp22.12	1.00	0.0	.	
48	X D	407.80	407.76	0.04	409	817	13.2	10790	1.025	1.061	0.097	0.75	Xq25	0.97	-0.4	.	
52	X D	451.36	451.33	0.03	454	614	14.0	8567	0.814	0.816	0.061	0.92	Xp21.1	1.00	0.0	.	
Chromosome X					Mean	1051	11.6	11876	0.995	1.024	0.074	1.00	(CV: 0.05)	0.98			
	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			0.08		1189	11.4	13219	1.104	1.000	0.070	2			1.10	Total of all except		
Standard deviations			0.07		(Coef. of variance:	0.279)	0.274	0.157						0.22	Ctrl and '?' peaks		

Quality assessment	Quality limits	Quality
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	3.28
Mean height of first probes AB	> 450 (800)	1452
Mean height of last probes CD	> 280 (500)	910
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.60
Mean group CV of weighted ratio	<0.20 (0.15)	0.06
1 unidentified peak area / 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= 0.000% **Female Reference**
Trisomy 13

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 286 (14 peaks). 100*CV of ROX heights for peaks above 100 nt is: 5.23

Ratio 1.47 is found. Theoretically 'Trisomy 13' has ratio 1.5