

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	
6	64 -	60.09	60.25	-0.16	64	193	16.3	3148	0.589	0.669	0.156	0.75	64 nt	0.88	-0.5	I-	
7	70 -	65.88	66.28	-0.40	70	273	21.8	5940	1.111	0.882	0.133	1.15	70 nt	1.26	1.7	III	
8	76 -	72.08	72.35	-0.27	76	323	18.7	6049	1.131	1.172	0.188	1.09	76 nt	0.97	-0.2	.	
9	82 -	78.60	78.58	0.02	82	318	19.7	6250	1.169	1.267	0.217	1.02	82 nt	0.92	-0.4	I-	
Ctrl: Q-fragments					Mean	277	19.1	5347	1.000	0.997	0.174	1.00	(CV: 0.17)	1.02			
11	2 A	90.41	90.30	0.11	94	3187	9.4	29857	0.917	0.778	0.083	1.00	2q14 synt.	1.18	1.7	II	
Synthetic control probe					Mean	3187	9.4	29857	0.917	0.778	0.083	1.00	(CV:)	1.18			
16	13 A	145.99	145.99	0.00	148	3995	9.1	36327	1.116	1.083	0.041	1.24	13q32.1	1.03	0.8	.	
23	13 A	177.34	177.35	-0.01	178	3278	9.4	30930	0.950	0.924	0.049	0.89	13q13.3	1.03	0.5	.	
29	13 B	218.90	218.86	0.04	220	3375	9.7	32791	0.979	1.022	0.030	1.59	13q14.2	0.96	-1.4	.	
33	13 B	262.53	262.54	-0.01	265	2617	10.1	26424	0.789	0.727	0.035	0.99	13q21.33	1.08	1.8	I	
38	13 C	309.81	309.96	-0.15	310	2304	10.3	23652	1.069	1.028	0.042	1.15	13q34	1.04	1.0	.	
42	13 C	355.41	355.26	0.15	355	1759	11.3	19952	0.901	0.986	0.059	0.78	13q13.1	0.91	-1.4	I-	
46	13 D	398.54	398.49	0.05	400	2238	11.2	25000	1.087	1.123	0.080	0.66	13q14.2	0.97	-0.5	.	
50	13 D	442.90	442.70	0.20	445	1996	11.8	23507	1.022	0.917	0.061	0.71	13q34	1.11	1.7	I	
Chromosome 13					Mean	2695	10.4	27323	0.989	0.976	0.050	1.00	(CV: 0.06)	1.01			
14	18 A	140.18	140.13	0.05	142	4264	9.3	39691	1.219	1.189	0.048	1.17	18q21.1	1.03	0.6	.	
22	18 A	170.75	170.79	-0.04	172	3142	9.2	28805	0.885	0.918	0.058	0.75	18q21.32	0.96	-0.6	.	
28	18 B	209.96	209.91	0.05	211	3576	9.9	35535	1.061	0.986	0.036	1.29	18q11.2	1.08	2.1	I	
32	18 B	252.95	252.87	0.08	256	4050	9.9	40011	1.194	1.177	0.043	1.29	18q23	1.01	0.4	.	
37	18 C	298.88	298.95	-0.07	301	2621	10.4	27168	1.227	1.104	0.054	0.97	18p11.32	1.11	2.3	I	
41	18 C	346.12	346.19	-0.07	346	1581	10.9	17201	0.777	0.700	0.045	0.74	18q21.33	1.11	1.7	I	
45	18 D	390.16	390.06	0.10	391	2514	11.1	27983	1.216	1.261	0.060	1.00	18q11.2	0.96	-0.8	.	
49	18 D	434.03	433.96	0.07	436	2054	11.6	23860	1.037	1.047	0.064	0.78	18p11.21	0.99	-0.2	.	
Chromosome 18					Mean	2975	10.3	30032	1.077	1.048	0.051	1.00	(CV: 0.06)	1.03			
12	21 A	133.04	132.97	0.07	136	4061	9.6	39094	1.201	1.185	0.088	0.77	21q22.13	1.01	0.2	.	
20	21 A	164.58	164.60	-0.02	166	3386	9.2	31277	0.961	1.012	0.075	0.77	21q21.1	0.95	-0.7	I-	
27	21 B	200.93	200.84	0.09	202	3759	9.6	35902	1.072	1.061	0.046	1.32	21q21.1	1.01	0.2	.	
31	21 B	245.48	245.40	0.08	247	3083	9.9	30547	0.912	0.893	0.046	1.11	21q11.2	1.02	0.4	.	
36	21 C	289.15	289.21	-0.06	292	2193	10.3	22627	1.022	0.955	0.057	0.95	21q22.11	1.07	1.2	I	
40	21 C	337.36	337.43	-0.07	337	1760	10.9	19127	0.864	0.846	0.053	0.92	21q21.3	1.02	0.3	.	
44	21 D	381.60	381.50	0.10	382	2097	10.9	22919	0.996	0.931	0.052	1.02	21q22.3	1.07	1.2	I	
48	21 D	424.81	424.75	0.06	427	1772	11.9	21087	0.917	0.863	0.043	1.14	21q22.11	1.06	1.2	I	
Chromosome 21					Mean	2764	10.3	27823	0.993	0.968	0.058	1.00	(CV: 0.04)	1.03			
17	X A	152.90	152.82	0.08	154	2754	9.4	25915	0.796	1.088	0.059	0.94	Xq12	0.73	-4.9*	III-	
24	X A	183.67	183.64	0.03	184	2292	9.6	21993	0.676	0.824	0.042	1.00	Xq23	0.82	-3.5	II-	
30	X B	228.62	228.59	0.03	229	3056	9.8	29966	0.894	1.066	0.048	1.14	Xp21.3	0.84	-3.6	II-	
34	X B	271.66	271.66	0.00	274	2852	10.0	28523	0.851	1.068	0.040	1.36	Xp11.4	0.80	-5.4*	II-	
39	X C	317.67	317.78	-0.11	319	1587	11.2	17718	0.800	1.060	0.081	0.66	Xq28	0.75	-3.2	II-	
43	X C	362.62	362.49	0.13	364	2216	10.9	24128	1.090	1.320	0.070	0.97	Xp22.12	0.83	-3.3	II-	
47	X D	407.86	407.84	0.02	409	1615	11.8	19015	0.827	1.029	0.062	0.85	Xq25	0.80	-3.3	II-	
51	X D	451.54	451.42	0.12	454	1268	11.8	14962	0.650	0.829	0.039	1.09	Xp21.1	0.78	-4.6*	II-	
Chromosome X					Mean	2205	10.6	22778	0.823	1.035	0.055	1.00	(CV: 0.04)	0.80	P= 0.004%		
18	Y a	158.71	158.49	0.22	160	174	9.8	1699	0.052	0.838			Yp11.31	0.06		?	
25	Y a	191.76	191.68	0.08	193	56	6.0*	336	0.010	0.483			Yp11.31	0.02		?	
	Y b		238.05		238					0.659			Yq11.21				
35	Y b	280.51	280.55	-0.04	283	100	9.1	907	0.027	0.772			Yp11.3	0.04		?	
Chromosome Y					Mean						1.00		(CV:)				
Mean values				0.03		2676	10.3	27076	0.969	1.000	0.054	2		0.98	Total of all except		
Standard deviations				0.08		(Coef. of variance: 0.250)			0.155	0.147				0.12	Ctrl and '?' peaks		

Quality assessment	Quality limits	Quality
Mean A-group area / mean Q-frag. area	>0.65 (1.50)	6.09
Mean height of first probes AB	> 450 (800)	3337
Mean height of last probes CD	> 280 (500)	1973
Ratio of mean heights AB/CD ('slope')	<3.00 (2.50)	1.69
Mean group CV of weighted ratio	<0.20 (0.15)	0.05
5 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= 0.004% **Female Reference Monosomy X (mosaicism?)**

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 220 (14 peaks). 100*CV of ROX heights for peaks above 100 nt is: 9.40

Note the Y peaks!

Ratio 0.80 is found. Theoretically 'Monosomy X' has ratio 0.5