

12/03/03 **High Frequency Measurement**
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Chin Pang

Project #:

Company:Aperto

EUT Descrip.: EUT with MT-484030/N 15 dBi omni

FCC ID: PS6R3000-A2

Test Target:

Mode Oper: Constant Transmit at 20 dBm output

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T73; S/N: 6717 @3m	T86 Miteq 924341	Agilent E4446A Analyzer	

Hi Frequency Cables

☐ (2 ft)	☒ (2 ~ 3 ft)	☐ (4 ~ 6 ft)	☒ (12 ft)
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Peak Measurements:
1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:
1 MHz Resolution Bandwidth
10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
1, 5.728MHz, MT-484030/N															
2.400	9.8	70.1	67.9	29.2	1.8	-44.0	0.0	1.0	58.0	55.8	74.0	54.0	-16.0	1.8	L.O emission, V, -20dBc ok
11.450	9.8	50.5	37.3	38.7	4.7	-44.5	0.0	1.0	50.3	37.1	74.0	54.0	-23.7	-16.9	V, noise floor
17.184	9.8	50.6	37.5	41.2	6.0	-48.5	0.0	1.0	50.3	37.2	74.0	54.0	-23.7	-16.8	V, noise floor
11.450	9.8	51.2	37.7	38.7	4.7	-44.5	0.0	1.0	51.0	37.5	74.0	54.0	-23.0	-16.5	H, noise floor
17.184	9.8	52.0	38.0	41.2	6.0	-48.5	0.0	1.0	51.7	37.7	74.0	54.0	-22.3	-16.3	H, noise floor
Mid Ch, 5788MHz															
11.569	9.8	48.2	37.1	38.8	4.7	-44.7	0.0	1.0	48.0	36.9	74.0	54.0	-26.0	-17.1	V, noise floor
17.364	9.8	50.2	39.5	42.3	6.1	-48.3	0.0	1.0	51.2	40.5	74.0	54.0	-22.8	-13.5	V, noise floor
11.569	9.8	49.5	37.3	38.8	4.7	-44.7	0.0	1.0	49.3	37.1	74.0	54.0	-24.7	-16.9	H, noise floor
17.569	9.8	50.9	39.6	43.5	6.1	-48.1	0.0	1.0	53.5	42.2	74.0	54.0	-20.5	-11.8	H, noise floor
High Ch, 5847MHz															
11.694	9.8	49.7	37.4	38.9	4.7	-44.9	0.0	1.0	49.4	37.1	74.0	54.0	-24.6	-16.9	V, noise floor
17.576	9.8	48.0	37.1	43.6	6.1	-48.0	0.0	1.0	50.7	39.7	74.0	54.0	-23.3	-14.3	V, noise floor
11.694	9.8	50.1	37.4	38.9	4.7	-44.9	0.0	1.0	49.8	37.1	74.0	54.0	-24.2	-16.9	H, noise floor
17.576	9.8	49.0	37.3	43.6	6.1	-48.0	0.0	1.0	51.6	39.9	74.0	54.0	-22.4	-14.1	H, noise floor
No emissions were found up to 40GHz															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		