PEAK OUTPUT POWER CK5050

Standard: FCC Part 15

Test procedure: paragraph 15.247

Test equipment:

TYPE	BRAND	EMITECH NUMBER
Spectrum analyzer FSP 40	Rohde & Schwarz	4088
Power source E3610A	Hewlett Packard	4195
Multimeter 77-2	Fluke	0812
Attenuator 20dB-8491A	Hewlett Packard	2507
Radio frequency generator SME06	Rohde & Schwarz	1669
RF Power meter 8541B	Gigatronics	3479
Power meter probe 80401A	Gigatronics	3182
Meteo station Météostar	Bioblock Scientific	0943

Test set up:

The EST is connected to the spectrum analyzer through a cable test and the level of the carrier is recorded on channel 1, 40 and 79.

Then the measurement is realized by substitution method on lowest, middle and highest channels with a RF generator instead of the equipment. The level of the generator is adjusted to obtain the same level on the spectrum analyzer through the same cable test.

The level of the generator is measured with a calibrated RF Power meter.

Equipment under test operating condition:

The equipment under test is blocked in continuous transmission mode, modulated by internal data signal, at the highest output power level which the transmitter is intended to operate.

Results:

Ambient temperature (°C): 23.5
Relative humidity (%): 50

Power source: 4.8Vdc by an external power source

Sample n° 1 Channel 1

		Substitution level dBm	**Peak Output Power (W)**
Normal test conditions	Nominal power source (V): 4.8	-2.9	512.86×10^{-6}

RBw = 1 MHz
VBw = 1 MHz

Sample n° 1 Channel 40

		Substitution level dBm	**Peak Output Power (W)**
Normal test conditions	Nominal power source (V): 4.8	-3	501.19×10^{-6}

RBw = 1 MHz
VBw = 1 MHz

Sample n° 1 Channel 79

		Substitution level dBm	**Peak Output Power (W)**
Normal test conditions	Nominal power source (V): 4.8	-4.5	354.81×10^{-6}

RBw = 1 MHz
VBw = 1 MHz

Test conclusion:

RESPECTED STANDARD

Test set up for conducted measurement: