

Processing Gain TEST REPORT

Report No.: Z01C-02080

Issue Date: March 29, 2002

FCC CFR 47, Paragraph 15.247(e)

Equipment under test : WIRELESS CONTROLLER & RECEIVER for VIDEOGAME

FCC ID : EW4DOLAW

Trade Name : NINTENDO GAMECUBE WIRELESS COTROLLER WAVEBIRD

Model Number : DOL-004

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Scope

This report contains the results of the processing gain testing performed on the "NINTENDO GAMECUBE WIRELESS CONTROLLER WAVEBIRD". The tests were carried out in accordance with FCC CFR 47

Part 15, Paragraph 15.247(e). The jamming margin method specified 15.247(e)(2) was used to perform the processing gain testing. FCC97-114, Guidance on Measurements for Direct Sequence Spread Spectrum Systems, was also utilized as a guiding document for performance of the processing gain testing.

FCC Requirements

The processing gain of direct sequence system shall be at least 10dB. The processing gain shall be determined from the ratio n dB of the signal-to-noise ratio with the system spreading code turned off to the signal-to-noise ratio with the system spreading code turned on, as measured at the demodulated output of the receiver.

Test Equipment

Agilent Signal Generator, MODEL 8648D, 9kHz-4GHz
Anritsu Power Meter, MODEL ML2437A
Anritsu Power Sensor, MODEL MA2472A, 10MHz-18GHz
Anritsu Data Transmission Analyzer, MODEL MD6420A
Anritsu 2-Way Combiner/Splitter, MODEL Z-164A
Agilent Step Attenuator, MODEL 8494B/8496B, 1dB step/10dB step

Method of Measurement

As mentioned in the scope section, the jamming margin method was used. The following drawing titled "Processing Gain - Jamming Test Setup" illustrates a block diagram of the test setup. In this method, a signal generator was stepped in 50kHz increments across the passband of the system. At each point, the level of the signal generator required to produce the recommended Bit Error Rate (BER) was recorded. This level is the jammer level. The output power of the transmitter was also recorded at these same points. This level is the signal level. The jammer to signal ratio (J/S) was then calculated. The worst 20% of the J/S data points were discarded. The lowest remaining J/S ratio was used to calculate the processing gain for each of $(S/N)_o + M_j + L_{sys}$, where G_p = the processing gain of the system, $(S/N)_o$ = signal to noise ratio required for the chosen BER, M_j = J/S ratio, and L_{sys} = system losses. Note that total system losses in a system, including intentional radiator and receiver, are assumed to be no more than 2dB as specified by the FCC.

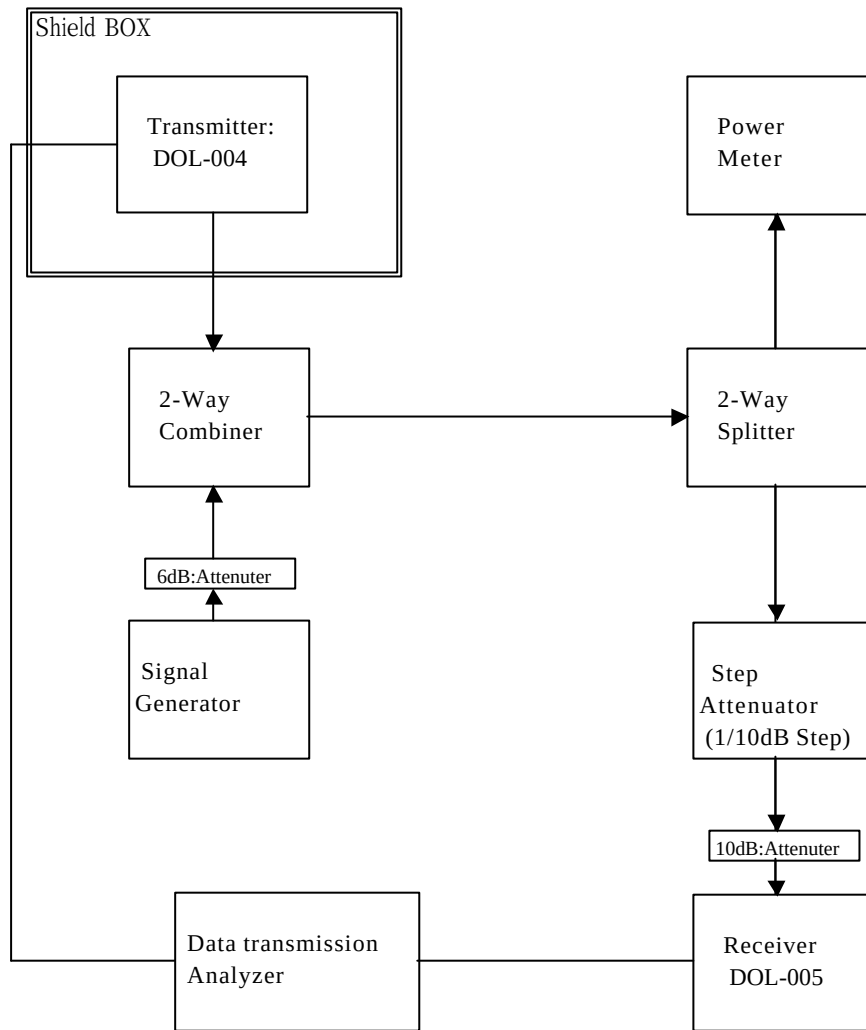
An ideal signal to noise ratio, also referred to as $(S/N)_o$ or (E_s/N_o) , of 13.3dB was used as specified by MegaChips when calculating the processing gain when operating at 96kbps.

The "NINTENDO GAMECUBE WIRELESS CONTROLLER WAVEBIRD" operates at bit rates 96kbps only.

A BER (bit error rate) of $1.0e-4$ was used to calculate the processing gain.

The data presented in this report is for the all case operation of the EUT.

Processing Gain-Jamming Test Setup



Processing Gain Results summary

Test date : March 2,4, 2002
Sample Time: 30 seconds
Test pattern: 2E9-1
Receiver Level: -40.0dBm

Channel	Gp (dB)	Spec (dB)	Channel	Gp(dB)	Spec (dB)
1	11.1	10	9	10.9	10
2	10.3	10	10	10.9	10
3	11.1	10	11	10.5	10
4	10.7	10	12	10.4	10
5	11.4	10	13	10.3	10
6	11.1	10	14	10.5	10
7	11.1	10	15	10.4	10
8	11.1	10	16	10.4	10

96kbps Channel IProcessing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2477.90	14.4	13.3	-28.2	-27.3	-0.9	2.0	1.00E-04
2477.95	12.4	13.3	-30.2	-27.3	-2.9	2.0	1.00E-04
2478.00	10.4	13.3	-32.2	-27.3	-4.9	2.0	1.00E-04
2478.05	9.2	13.3	-33.4	-27.3	-6.1	2.0	1.00E-04
2478.10	10.2	13.3	-32.4	-27.3	-5.1	2.0	1.00E-04
2478.15	10.2	13.3	-32.4	-27.3	-5.1	2.0	1.00E-04
2478.20	11.1	13.3	-31.5	-27.3	-4.2	2.0	1.00E-04
2478.25	11.2	13.3	-31.4	-27.3	-4.1	2.0	1.00E-04
2478.30	11.2	13.3	-31.4	-27.3	-4.1	2.0	1.00E-04
2478.35	10.3	13.3	-32.3	-27.3	-5.0	2.0	1.00E-04
2478.40	10.3	13.3	-32.3	-27.3	-5.0	2.0	1.00E-04
2478.45	10.3	13.3	-32.3	-27.3	-5.0	2.0	1.00E-04
2478.50	10.3	13.3	-32.3	-27.3	-5.0	2.0	1.00E-04
2478.55	10.3	13.3	-32.3	-27.3	-5.0	2.0	1.00E-04
2478.60	13.2	13.3	-29.4	-27.3	-2.1	2.0	1.00E-04
2478.65	13.3	13.3	-29.3	-27.3	-2.0	2.0	1.00E-04
2478.70	14.3	13.3	-28.3	-27.3	-1.0	2.0	1.00E-04
2478.75	14.3	13.3	-28.3	-27.3	-1.0	2.0	1.00E-04
2478.80	14.3	13.3	-28.3	-27.3	-1.0	2.0	1.00E-04
2478.85	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2478.90	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2478.95	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.00	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.05	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.10	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.15	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.20	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.25	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.30	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.35	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.40	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.45	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.50	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.55	15.2	13.3	-27.4	-27.3	-0.1	2.0	1.00E-04
2479.60	14.2	13.3	-28.4	-27.3	-1.1	2.0	1.00E-04
2479.65	13.2	13.3	-29.4	-27.3	-2.1	2.0	1.00E-04
2479.70	13.2	13.3	-29.4	-27.3	-2.1	2.0	1.00E-04
2479.75	12.2	13.3	-30.4	-27.3	-3.1	2.0	1.00E-04
2479.80	13.2	13.3	-29.4	-27.3	-2.1	2.0	1.00E-04
2479.85	11.2	13.3	-31.4	-27.3	-4.1	2.0	1.00E-04
2479.90	10.2	13.3	-32.4	-27.3	-5.1	2.0	1.00E-04
2479.95	11.3	13.3	-31.3	-27.3	-4.0	2.0	1.00E-04
2480.00	11.2	13.3	-31.4	-27.3	-4.1	2.0	1.00E-04
2480.05	11.3	13.3	-31.3	-27.3	-4.0	2.0	1.00E-04
2480.10	12.4	13.3	-30.2	-27.3	-2.9	2.0	1.00E-04
2480.15	12.4	13.3	-30.2	-27.3	-2.9	2.0	1.00E-04
2480.20	12.4	13.3	-30.2	-27.3	-2.9	2.0	1.00E-04
2480.25	12.3	13.3	-30.3	-27.3	-3.0	2.0	1.00E-04
2480.30	12.3	13.3	-30.3	-27.3	-3.0	2.0	1.00E-04
2480.35	11.3	13.3	-31.3	-27.3	-4.0	2.0	1.00E-04
2480.40	15.3	13.3	-27.3	-27.3	0.0	2.0	1.00E-04
2480.45	15.3	13.3	-27.3	-27.3	0.0	2.0	1.00E-04
2480.50	16.3	13.3	-26.3	-27.3	1.0	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.1**

96kbps Channel 3Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2403.50	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2403.55	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2403.60	13.9	13.3	-28.2	-26.8	-1.4	2.0	1.00E-04
2403.65	12.9	13.3	-29.2	-26.8	-2.4	2.0	1.00E-04
2403.70	12.9	13.3	-29.2	-26.8	-2.4	2.0	1.00E-04
2403.75	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2403.80	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2403.85	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2403.90	11.8	13.3	-30.3	-26.8	-3.5	2.0	1.00E-04
2403.95	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2404.00	10.8	13.3	-31.3	-26.8	-4.5	2.0	1.00E-04
2404.05	10.8	13.3	-31.3	-26.8	-4.5	2.0	1.00E-04
2404.10	9.8	13.3	-32.3	-26.8	-5.5	2.0	1.00E-04
2404.15	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2404.20	12.9	13.3	-29.2	-26.8	-2.4	2.0	1.00E-04
2404.25	12.8	13.3	-29.3	-26.8	-2.5	2.0	1.00E-04
2404.30	12.7	13.3	-29.4	-26.8	-2.6	2.0	1.00E-04
2404.35	13.8	13.3	-28.3	-26.8	-1.5	2.0	1.00E-04
2404.40	15.7	13.3	-26.4	-26.8	0.4	2.0	1.00E-04
2404.45	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.50	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.55	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.60	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.65	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.70	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.75	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.80	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.85	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.90	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2404.95	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2405.00	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2405.05	15.8	13.3	-26.3	-26.8	0.5	2.0	1.00E-04
2405.10	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.15	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.20	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.25	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.30	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.35	14.8	13.3	-27.3	-26.8	-0.5	2.0	1.00E-04
2405.40	12.9	13.3	-29.2	-26.8	-2.4	2.0	1.00E-04
2405.45	10.8	13.3	-31.3	-26.8	-4.5	2.0	1.00E-04
2405.50	9.9	13.3	-32.2	-26.8	-5.4	2.0	1.00E-04
2405.55	9.8	13.3	-32.3	-26.8	-5.5	2.0	1.00E-04
2405.60	9.8	13.3	-32.3	-26.8	-5.5	2.0	1.00E-04
2405.65	10.9	13.3	-31.2	-26.8	-4.4	2.0	1.00E-04
2405.70	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2405.75	10.9	13.3	-31.2	-26.8	-4.4	2.0	1.00E-04
2405.80	10.8	13.3	-31.3	-26.8	-4.5	2.0	1.00E-04
2405.85	10.9	13.3	-31.2	-26.8	-4.4	2.0	1.00E-04
2405.90	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2405.95	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2406.00	11.9	13.3	-30.2	-26.8	-3.4	2.0	1.00E-04
2406.05	12.9	13.3	-29.2	-26.8	-2.4	2.0	1.00E-04
2406.10	13.9	13.3	-28.2	-26.8	-1.4	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.1**

96kbps Channel 4Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2408.30	14.7	13.3	-27.3	-26.7	-0.6	2.0	1.00E-04
2408.35	14.7	13.3	-27.3	-26.7	-0.6	2.0	1.00E-04
2408.40	13.8	13.3	-28.2	-26.7	-1.5	2.0	1.00E-04
2408.45	12.7	13.3	-29.3	-26.7	-2.6	2.0	1.00E-04
2408.50	12.8	13.3	-29.2	-26.7	-2.5	2.0	1.00E-04
2408.55	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2408.60	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2408.65	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2408.70	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2408.75	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2408.80	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2408.85	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2408.90	9.7	13.3	-32.3	-26.7	-5.6	2.0	1.00E-04
2408.95	11.6	13.3	-30.4	-26.7	-3.7	2.0	1.00E-04
2409.00	12.6	13.3	-29.4	-26.7	-2.7	2.0	1.00E-04
2409.05	13.6	13.3	-28.4	-26.7	-1.7	2.0	1.00E-04
2409.10	13.6	13.3	-28.4	-26.7	-1.7	2.0	1.00E-04
2409.15	13.6	13.3	-28.4	-26.7	-1.7	2.0	1.00E-04
2409.20	16.5	13.3	-25.5	-26.7	1.2	2.0	1.00E-04
2409.25	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.30	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.35	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.40	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.45	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.50	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.55	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.60	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.65	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.70	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.75	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.80	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.85	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.90	15.5	13.3	-26.5	-26.7	0.2	2.0	1.00E-04
2409.95	14.4	13.3	-27.6	-26.7	-0.9	2.0	1.00E-04
2410.00	14.4	13.3	-27.6	-26.7	-0.9	2.0	1.00E-04
2410.05	14.4	13.3	-27.6	-26.7	-0.9	2.0	1.00E-04
2410.10	14.4	13.3	-27.6	-26.7	-0.9	2.0	1.00E-04
2410.15	13.6	13.3	-28.4	-26.7	-1.7	2.0	1.00E-04
2410.20	13.6	13.3	-28.4	-26.7	-1.7	2.0	1.00E-04
2410.25	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.30	9.7	13.3	-32.3	-26.7	-5.6	2.0	1.00E-04
2410.35	9.6	13.3	-32.4	-26.7	-5.7	2.0	1.00E-04
2410.40	9.6	13.3	-32.4	-26.7	-5.7	2.0	1.00E-04
2410.45	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.50	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.55	9.7	13.3	-32.3	-26.7	-5.6	2.0	1.00E-04
2410.60	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.65	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.70	10.7	13.3	-31.3	-26.7	-4.6	2.0	1.00E-04
2410.75	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2410.80	11.8	13.3	-30.2	-26.7	-3.5	2.0	1.00E-04
2410.85	12.8	13.3	-29.2	-26.7	-2.5	2.0	1.00E-04
2410.90	12.8	13.3	-29.2	-26.7	-2.5	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.7**

96kbps Channel 5Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2418.10	12.3	13.3	-29.9	-26.9	-3.0	2.0	1.00E-04
2418.15	12.3	13.3	-29.9	-26.9	-3.0	2.0	1.00E-04
2418.20	12.2	13.3	-30.0	-26.9	-3.1	2.0	1.00E-04
2418.25	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2418.30	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2418.35	11.3	13.3	-30.9	-26.9	-4.0	2.0	1.00E-04
2418.40	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2418.45	10.2	13.3	-32.0	-26.9	-5.1	2.0	1.00E-04
2418.50	10.3	13.3	-31.9	-26.9	-5.0	2.0	1.00E-04
2418.55	12.2	13.3	-30.0	-26.9	-3.1	2.0	1.00E-04
2418.60	13.7	13.3	-28.5	-26.9	-1.6	2.0	1.00E-04
2418.65	13.7	13.3	-28.5	-26.9	-1.6	2.0	1.00E-04
2418.70	13.6	13.3	-28.6	-26.9	-1.7	2.0	1.00E-04
2418.75	13.6	13.3	-28.6	-26.9	-1.7	2.0	1.00E-04
2418.80	15.5	13.3	-26.7	-26.9	0.2	2.0	1.00E-04
2418.85	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2418.90	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2418.95	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.00	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.05	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.10	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.15	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.20	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.25	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.30	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.35	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.40	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.45	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.50	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2419.55	14.6	13.3	-27.6	-26.9	-0.7	2.0	1.00E-04
2419.60	14.6	13.3	-27.6	-26.9	-0.7	2.0	1.00E-04
2419.65	14.4	13.3	-27.8	-26.9	-0.9	2.0	1.00E-04
2419.70	14.5	13.3	-27.7	-26.9	-0.8	2.0	1.00E-04
2419.75	14.4	13.3	-27.8	-26.9	-0.9	2.0	1.00E-04
2419.80	13.6	13.3	-28.6	-26.9	-1.7	2.0	1.00E-04
2419.85	11.6	13.3	-30.6	-26.9	-3.7	2.0	1.00E-04
2419.90	10.6	13.3	-31.6	-26.9	-4.7	2.0	1.00E-04
2419.95	9.6	13.3	-32.6	-26.9	-5.7	2.0	1.00E-04
2420.00	9.6	13.3	-32.6	-26.9	-5.7	2.0	1.00E-04
2420.05	10.6	13.3	-31.6	-26.9	-4.7	2.0	1.00E-04
2420.10	11.6	13.3	-30.6	-26.9	-3.7	2.0	1.00E-04
2420.15	9.8	13.3	-32.4	-26.9	-5.5	2.0	1.00E-04
2420.20	10.5	13.3	-31.7	-26.9	-4.8	2.0	1.00E-04
2420.25	10.5	13.3	-31.7	-26.9	-4.8	2.0	1.00E-04
2420.30	11.6	13.3	-30.6	-26.9	-3.7	2.0	1.00E-04
2420.35	11.6	13.3	-30.6	-26.9	-3.7	2.0	1.00E-04
2420.40	12.6	13.3	-29.6	-26.9	-2.7	2.0	1.00E-04
2420.45	13.6	13.3	-28.6	-26.9	-1.7	2.0	1.00E-04
2420.50	13.6	13.3	-28.6	-26.9	-1.7	2.0	1.00E-04
2420.55	14.6	13.3	-27.6	-26.9	-0.7	2.0	1.00E-04
2420.60	14.6	13.3	-27.6	-26.9	-0.7	2.0	1.00E-04
2420.65	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04
2420.70	15.6	13.3	-26.6	-26.9	0.3	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.4**

96kbps Channel 6Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	S.G	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2413.10	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2413.15	14.1	13.3	-28.0	-26.8	-1.2	2.0	1.00E-04
2413.20	14.2	13.3	-27.9	-26.8	-1.1	2.0	1.00E-04
2413.25	13.0	13.3	-29.1	-26.8	-2.3	2.0	1.00E-04
2413.30	12.0	13.3	-30.1	-26.8	-3.3	2.0	1.00E-04
2413.35	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2413.40	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2413.45	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2413.50	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2413.55	11.1	13.3	-31.0	-26.8	-4.2	2.0	1.00E-04
2413.60	11.1	13.3	-31.0	-26.8	-4.2	2.0	1.00E-04
2413.65	10.1	13.3	-32.0	-26.8	-5.2	2.0	1.00E-04
2413.70	10.2	13.3	-31.9	-26.8	-5.1	2.0	1.00E-04
2413.75	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2413.80	13.1	13.3	-29.0	-26.8	-2.2	2.0	1.00E-04
2413.85	13.1	13.3	-29.0	-26.8	-2.2	2.0	1.00E-04
2413.90	13.1	13.3	-29.0	-26.8	-2.2	2.0	1.00E-04
2413.95	13.2	13.3	-28.9	-26.8	-2.1	2.0	1.00E-04
2414.00	15.9	13.3	-26.2	-26.8	0.6	2.0	1.00E-04
2414.05	16.0	13.3	-26.1	-26.8	0.7	2.0	1.00E-04
2414.10	16.0	13.3	-26.1	-26.8	0.7	2.0	1.00E-04
2414.15	16.0	13.3	-26.1	-26.8	0.7	2.0	1.00E-04
2414.20	16.0	13.3	-26.1	-26.8	0.7	2.0	1.00E-04
2414.25	16.0	13.3	-26.1	-26.8	0.7	2.0	1.00E-04
2414.30	15.9	13.3	-26.2	-26.8	0.6	2.0	1.00E-04
2414.35	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.40	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.45	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.50	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.55	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.60	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.65	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.70	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.75	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.80	15.0	13.3	-27.1	-26.8	-0.3	2.0	1.00E-04
2414.85	15.1	13.3	-27.0	-26.8	-0.2	2.0	1.00E-04
2414.90	15.1	13.3	-27.0	-26.8	-0.2	2.0	1.00E-04
2414.95	13.9	13.3	-28.2	-26.8	-1.4	2.0	1.00E-04
2415.00	13.1	13.3	-29.0	-26.8	-2.2	2.0	1.00E-04
2415.05	11.1	13.3	-31.0	-26.8	-4.2	2.0	1.00E-04
2415.10	11.0	13.3	-31.1	-26.8	-4.3	2.0	1.00E-04
2415.15	10.1	13.3	-32.0	-26.8	-5.2	2.0	1.00E-04
2415.20	10.2	13.3	-31.9	-26.8	-5.1	2.0	1.00E-04
2415.25	11.1	13.3	-31.0	-26.8	-4.2	2.0	1.00E-04
2415.30	12.2	13.3	-29.9	-26.8	-3.1	2.0	1.00E-04
2415.35	10.1	13.3	-32.0	-26.8	-5.2	2.0	1.00E-04
2415.40	11.0	13.3	-31.1	-26.8	-4.3	2.0	1.00E-04
2415.45	10.1	13.3	-32.0	-26.8	-5.2	2.0	1.00E-04
2415.50	11.0	13.3	-31.1	-26.8	-4.3	2.0	1.00E-04
2415.55	12.1	13.3	-30.0	-26.8	-3.2	2.0	1.00E-04
2415.60	13.2	13.3	-28.9	-26.8	-2.1	2.0	1.00E-04
2415.65	13.1	13.3	-29.0	-26.8	-2.2	2.0	1.00E-04
2415.70	14.2	13.3	-27.9	-26.8	-1.1	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.1**

96kbps Channel 7Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2422.70	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2422.75	13.2	13.3	-29.1	-27.0	-2.1	2.0	1.00E-04
2422.80	12.9	13.3	-29.4	-27.0	-2.4	2.0	1.00E-04
2422.85	12.8	13.3	-29.5	-27.0	-2.5	2.0	1.00E-04
2422.90	12.8	13.3	-29.5	-27.0	-2.5	2.0	1.00E-04
2422.95	11.8	13.3	-30.5	-27.0	-3.5	2.0	1.00E-04
2423.00	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2423.05	11.8	13.3	-30.5	-27.0	-3.5	2.0	1.00E-04
2423.10	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2423.15	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2423.20	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2423.25	10.8	13.3	-31.5	-27.0	-4.5	2.0	1.00E-04
2423.30	9.9	13.3	-32.4	-27.0	-5.4	2.0	1.00E-04
2423.35	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2423.40	13.9	13.3	-28.4	-27.0	-1.4	2.0	1.00E-04
2423.45	12.9	13.3	-29.4	-27.0	-2.4	2.0	1.00E-04
2423.50	13.8	13.3	-28.5	-27.0	-1.5	2.0	1.00E-04
2423.55	14.6	13.3	-27.7	-27.0	-0.7	2.0	1.00E-04
2423.60	15.8	13.3	-26.5	-27.0	0.5	2.0	1.00E-04
2423.65	15.8	13.3	-26.5	-27.0	0.5	2.0	1.00E-04
2423.70	16.0	13.3	-26.3	-27.0	0.7	2.0	1.00E-04
2423.75	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2423.80	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2423.85	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2423.90	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2423.95	16.0	13.3	-26.3	-27.0	0.7	2.0	1.00E-04
2424.00	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2424.05	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2424.10	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2424.15	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2424.20	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2424.25	16.0	13.3	-26.3	-27.0	0.7	2.0	1.00E-04
2424.30	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.35	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.40	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.45	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.50	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.55	14.8	13.3	-27.5	-27.0	-0.5	2.0	1.00E-04
2424.60	12.9	13.3	-29.4	-27.0	-2.4	2.0	1.00E-04
2424.65	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2424.70	9.8	13.3	-32.5	-27.0	-5.5	2.0	1.00E-04
2424.75	9.9	13.3	-32.4	-27.0	-5.4	2.0	1.00E-04
2424.80	9.8	13.3	-32.5	-27.0	-5.5	2.0	1.00E-04
2424.85	10.8	13.3	-31.5	-27.0	-4.5	2.0	1.00E-04
2424.90	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2424.95	10.8	13.3	-31.5	-27.0	-4.5	2.0	1.00E-04
2425.00	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2425.05	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2425.10	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2425.15	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2425.20	12.9	13.3	-29.4	-27.0	-2.4	2.0	1.00E-04
2425.25	13.8	13.3	-28.5	-27.0	-1.5	2.0	1.00E-04
2425.30	13.9	13.3	-28.4	-27.0	-1.4	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.1**

96kbps Channel 8Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2427.50	15.2	13.3	-27.0	-26.9	-0.1	2.0	1.00E-04
2427.55	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04
2427.60	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04
2427.65	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2427.70	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2427.75	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2427.80	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2427.85	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2427.90	12.0	13.3	-30.2	-26.9	-3.3	2.0	1.00E-04
2427.95	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2428.00	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2428.05	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2428.10	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2428.15	12.1	13.3	-30.1	-26.9	-3.2	2.0	1.00E-04
2428.20	13.1	13.3	-29.1	-26.9	-2.2	2.0	1.00E-04
2428.25	13.0	13.3	-29.2	-26.9	-2.3	2.0	1.00E-04
2428.30	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04
2428.35	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04
2428.40	15.1	13.3	-27.1	-26.9	-0.2	2.0	1.00E-04
2428.45	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.50	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.55	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.60	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.65	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.70	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.75	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.80	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.85	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.90	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2428.95	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.00	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.05	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.10	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.15	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.20	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.25	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.30	15.0	13.3	-27.2	-26.9	-0.3	2.0	1.00E-04
2429.35	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04
2429.40	13.1	13.3	-29.1	-26.9	-2.2	2.0	1.00E-04
2429.45	11.2	13.3	-31.0	-26.9	-4.1	2.0	1.00E-04
2429.50	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2429.55	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2429.60	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2429.65	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2429.70	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2429.75	10.1	13.3	-32.1	-26.9	-5.2	2.0	1.00E-04
2429.80	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2429.85	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2429.90	11.1	13.3	-31.1	-26.9	-4.2	2.0	1.00E-04
2429.95	12.0	13.3	-30.2	-26.9	-3.3	2.0	1.00E-04
2430.00	13.1	13.3	-29.1	-26.9	-2.2	2.0	1.00E-04
2430.05	13.2	13.3	-29.0	-26.9	-2.1	2.0	1.00E-04
2430.10	14.1	13.3	-28.1	-26.9	-1.2	2.0	1.00E-04

Processing gain(dB) @20th percentile = **11.1**

96kbps Channel 9Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	TX power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2437.10	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2437.15	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2437.20	14.0	13.3	-28.3	-27.0	-1.3	2.0	1.00E-04
2437.25	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2437.30	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2437.35	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2437.40	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2437.45	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2437.50	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2437.55	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2437.60	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2437.65	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2437.70	9.9	13.3	-32.4	-27.0	-5.4	2.0	1.00E-04
2437.75	11.9	13.3	-30.4	-27.0	-3.4	2.0	1.00E-04
2437.80	14.0	13.3	-28.3	-27.0	-1.3	2.0	1.00E-04
2437.85	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2437.90	13.9	13.3	-28.4	-27.0	-1.4	2.0	1.00E-04
2437.95	12.2	13.3	-30.1	-27.0	-3.1	2.0	1.00E-04
2438.00	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2438.05	14.9	13.3	-27.4	-27.0	-0.4	2.0	1.00E-04
2438.10	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.15	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.20	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.25	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.30	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.35	14.9	13.3	-27.4	-27.0	-0.4	2.0	1.00E-04
2438.40	14.9	13.3	-27.4	-27.0	-0.4	2.0	1.00E-04
2438.45	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.50	15.9	13.3	-26.4	-27.0	0.6	2.0	1.00E-04
2438.55	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.60	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.65	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.70	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.75	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.80	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.85	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.90	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2438.95	14.0	13.3	-28.3	-27.0	-1.3	2.0	1.00E-04
2439.00	13.1	13.3	-29.2	-27.0	-2.2	2.0	1.00E-04
2439.05	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2439.10	9.8	13.3	-32.5	-27.0	-5.5	2.0	1.00E-04
2439.15	10.0	13.3	-32.3	-27.0	-5.3	2.0	1.00E-04
2439.20	10.0	13.3	-32.3	-27.0	-5.3	2.0	1.00E-04
2439.25	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2439.30	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2439.35	9.9	13.3	-32.4	-27.0	-5.4	2.0	1.00E-04
2439.40	10.8	13.3	-31.5	-27.0	-4.5	2.0	1.00E-04
2439.45	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2439.50	10.9	13.3	-31.4	-27.0	-4.4	2.0	1.00E-04
2439.55	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2439.60	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2439.65	14.0	13.3	-28.3	-27.0	-1.3	2.0	1.00E-04
2439.70	14.0	13.3	-28.3	-27.0	-1.3	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.9**

96kbps Channel 10 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2432.30	14.8	13.3	-27.6	-27.1	-0.5	2.0	1.00E-04
2432.35	14.8	13.3	-27.6	-27.1	-0.5	2.0	1.00E-04
2432.40	13.9	13.3	-28.5	-27.1	-1.4	2.0	1.00E-04
2432.45	12.9	13.3	-29.5	-27.1	-2.4	2.0	1.00E-04
2432.50	12.9	13.3	-29.5	-27.1	-2.4	2.0	1.00E-04
2432.55	11.9	13.3	-30.5	-27.1	-3.4	2.0	1.00E-04
2432.60	11.9	13.3	-30.5	-27.1	-3.4	2.0	1.00E-04
2432.65	11.9	13.3	-30.5	-27.1	-3.4	2.0	1.00E-04
2432.70	11.9	13.3	-30.5	-27.1	-3.4	2.0	1.00E-04
2432.75	11.8	13.3	-30.6	-27.1	-3.5	2.0	1.00E-04
2432.80	10.8	13.3	-31.6	-27.1	-4.5	2.0	1.00E-04
2432.85	10.9	13.3	-31.5	-27.1	-4.4	2.0	1.00E-04
2432.90	9.8	13.3	-32.6	-27.1	-5.5	2.0	1.00E-04
2432.95	11.9	13.3	-30.5	-27.1	-3.4	2.0	1.00E-04
2433.00	13.9	13.3	-28.5	-27.1	-1.4	2.0	1.00E-04
2433.05	12.9	13.3	-29.5	-27.1	-2.4	2.0	1.00E-04
2433.10	13.9	13.3	-28.5	-27.1	-1.4	2.0	1.00E-04
2433.15	14.0	13.3	-28.4	-27.1	-1.3	2.0	1.00E-04
2433.20	15.9	13.3	-26.5	-27.1	0.6	2.0	1.00E-04
2433.25	15.9	13.3	-26.5	-27.1	0.6	2.0	1.00E-04
2433.30	15.9	13.3	-26.5	-27.1	0.6	2.0	1.00E-04
2433.35	15.8	13.3	-26.6	-27.1	0.5	2.0	1.00E-04
2433.40	15.6	13.3	-26.8	-27.1	0.3	2.0	1.00E-04
2433.45	15.9	13.3	-26.5	-27.1	0.6	2.0	1.00E-04
2433.50	15.7	13.3	-26.7	-27.1	0.4	2.0	1.00E-04
2433.55	15.7	13.3	-26.7	-27.1	0.4	2.0	1.00E-04
2433.60	15.7	13.3	-26.7	-27.1	0.4	2.0	1.00E-04
2433.65	15.7	13.3	-26.7	-27.1	0.4	2.0	1.00E-04
2433.70	15.8	13.3	-26.6	-27.1	0.5	2.0	1.00E-04
2433.75	15.8	13.3	-26.6	-27.1	0.5	2.0	1.00E-04
2433.80	15.9	13.3	-26.5	-27.1	0.6	2.0	1.00E-04
2433.85	14.9	13.3	-27.5	-27.1	-0.4	2.0	1.00E-04
2433.90	14.9	13.3	-27.5	-27.1	-0.4	2.0	1.00E-04
2433.95	14.9	13.3	-27.5	-27.1	-0.4	2.0	1.00E-04
2434.00	15.0	13.3	-27.4	-27.1	-0.3	2.0	1.00E-04
2434.05	15.0	13.3	-27.4	-27.1	-0.3	2.0	1.00E-04
2434.10	15.0	13.3	-27.4	-27.1	-0.3	2.0	1.00E-04
2434.15	14.0	13.3	-28.4	-27.1	-1.3	2.0	1.00E-04
2434.20	13.0	13.3	-29.4	-27.1	-2.3	2.0	1.00E-04
2434.25	11.0	13.3	-31.4	-27.1	-4.3	2.0	1.00E-04
2434.30	9.5	13.3	-32.9	-27.1	-5.8	2.0	1.00E-04
2434.35	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2434.40	10.8	13.3	-31.6	-27.1	-4.5	2.0	1.00E-04
2434.45	10.9	13.3	-31.5	-27.1	-4.4	2.0	1.00E-04
2434.50	11.7	13.3	-30.7	-27.1	-3.6	2.0	1.00E-04
2434.55	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2434.60	10.2	13.3	-32.2	-27.1	-5.1	2.0	1.00E-04
2434.65	10.8	13.3	-31.6	-27.1	-4.5	2.0	1.00E-04
2434.70	10.8	13.3	-31.6	-27.1	-4.5	2.0	1.00E-04
2434.75	10.8	13.3	-31.6	-27.1	-4.5	2.0	1.00E-04
2434.80	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2434.85	13.9	13.3	-28.5	-27.1	-1.4	2.0	1.00E-04
2434.90	13.8	13.3	-28.6	-27.1	-1.5	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.9**

96kbps Channel 11 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2444.30	13.2	13.3	-29.1	-27.0	-2.1	2.0	1.00E-04
2444.35	12.2	13.3	-30.1	-27.0	-3.1	2.0	1.00E-04
2444.40	10.1	13.3	-32.2	-27.0	-5.2	2.0	1.00E-04
2444.45	9.0	13.3	-33.3	-27.0	-6.3	2.0	1.00E-04
2444.50	10.0	13.3	-32.3	-27.0	-5.3	2.0	1.00E-04
2444.55	10.4	13.3	-31.9	-27.0	-4.9	2.0	1.00E-04
2444.60	10.2	13.3	-32.1	-27.0	-5.1	2.0	1.00E-04
2444.65	10.1	13.3	-32.2	-27.0	-5.2	2.0	1.00E-04
2444.70	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2444.75	11.0	13.3	-31.3	-27.0	-4.3	2.0	1.00E-04
2444.80	10.1	13.3	-32.2	-27.0	-5.2	2.0	1.00E-04
2444.85	10.2	13.3	-32.1	-27.0	-5.1	2.0	1.00E-04
2444.90	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2444.95	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2445.00	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2445.05	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2445.10	13.2	13.3	-29.1	-27.0	-2.1	2.0	1.00E-04
2445.15	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2445.20	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.25	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.30	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.35	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.40	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.45	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.50	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.55	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.60	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.65	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.70	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.75	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.80	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.85	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.90	15.0	13.3	-27.3	-27.0	-0.3	2.0	1.00E-04
2445.95	13.1	13.3	-29.2	-27.0	-2.2	2.0	1.00E-04
2446.00	13.1	13.3	-29.2	-27.0	-2.2	2.0	1.00E-04
2446.05	13.0	13.3	-29.3	-27.0	-2.3	2.0	1.00E-04
2446.10	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.15	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.20	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.25	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2446.30	10.1	13.3	-32.2	-27.0	-5.2	2.0	1.00E-04
2446.35	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2446.40	10.1	13.3	-32.2	-27.0	-5.2	2.0	1.00E-04
2446.45	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2446.50	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.55	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.60	12.1	13.3	-30.2	-27.0	-3.2	2.0	1.00E-04
2446.65	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2446.70	12.0	13.3	-30.3	-27.0	-3.3	2.0	1.00E-04
2446.75	11.1	13.3	-31.2	-27.0	-4.2	2.0	1.00E-04
2446.80	13.1	13.3	-29.2	-27.0	-2.2	2.0	1.00E-04
2446.85	15.2	13.3	-27.1	-27.0	-0.1	2.0	1.00E-04
2446.90	15.1	13.3	-27.2	-27.0	-0.2	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.5**

96kbps Channel 12 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2449.10	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2449.15	12.3	13.3	-30.1	-27.1	-3.0	2.0	1.00E-04
2449.20	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.25	8.3	13.3	-34.1	-27.1	-7.0	2.0	1.00E-04
2449.30	9.3	13.3	-33.1	-27.1	-6.0	2.0	1.00E-04
2449.35	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.40	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.45	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.50	11.3	13.3	-31.1	-27.1	-4.0	2.0	1.00E-04
2449.55	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.60	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.65	9.3	13.3	-33.1	-27.1	-6.0	2.0	1.00E-04
2449.70	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2449.75	11.3	13.3	-31.1	-27.1	-4.0	2.0	1.00E-04
2449.80	11.3	13.3	-31.1	-27.1	-4.0	2.0	1.00E-04
2449.85	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2449.90	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2449.95	14.4	13.3	-28.0	-27.1	-0.9	2.0	1.00E-04
2450.00	14.4	13.3	-28.0	-27.1	-0.9	2.0	1.00E-04
2450.05	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.10	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.15	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.20	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.25	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.30	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.35	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.40	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.45	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.50	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.55	15.4	13.3	-27.0	-27.1	0.1	2.0	1.00E-04
2450.60	14.4	13.3	-28.0	-27.1	-0.9	2.0	1.00E-04
2450.65	15.4	13.3	-27.0	-27.1	0.1	2.0	1.00E-04
2450.70	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2450.75	14.4	13.3	-28.0	-27.1	-0.9	2.0	1.00E-04
2450.80	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2450.85	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2450.90	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2450.95	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.00	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.05	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2451.10	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2451.15	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2451.20	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2451.25	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2451.30	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2451.35	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.40	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.45	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2451.50	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.55	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2451.60	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2451.65	14.4	13.3	-28.0	-27.1	-0.9	2.0	1.00E-04
2451.70	15.4	13.3	-27.0	-27.1	0.1	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.4**

96kbps Channel 13 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2458.70	12.4	13.3	-29.9	-27.0	-2.9	2.0	1.00E-04
2458.75	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2458.80	11.3	13.3	-31.0	-27.0	-4.0	2.0	1.00E-04
2458.85	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2458.90	8.2	13.3	-34.1	-27.0	-7.1	2.0	1.00E-04
2458.95	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2459.00	10.2	13.3	-32.1	-27.0	-5.1	2.0	1.00E-04
2459.05	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2459.10	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2459.15	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2459.20	10.4	13.3	-31.9	-27.0	-4.9	2.0	1.00E-04
2459.25	9.3	13.3	-33.0	-27.0	-6.0	2.0	1.00E-04
2459.30	9.3	13.3	-33.0	-27.0	-6.0	2.0	1.00E-04
2459.35	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2459.40	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2459.45	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2459.50	13.3	13.3	-29.0	-27.0	-2.0	2.0	1.00E-04
2459.55	13.3	13.3	-29.0	-27.0	-2.0	2.0	1.00E-04
2459.60	14.3	13.3	-28.0	-27.0	-1.0	2.0	1.00E-04
2459.65	14.3	13.3	-28.0	-27.0	-1.0	2.0	1.00E-04
2459.70	14.3	13.3	-28.0	-27.0	-1.0	2.0	1.00E-04
2459.75	15.2	13.3	-27.1	-27.0	-0.1	2.0	1.00E-04
2459.80	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2459.85	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2459.90	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2459.95	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.00	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.05	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.10	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.15	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.20	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.25	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.30	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2460.35	15.4	13.3	-26.9	-27.0	0.1	2.0	1.00E-04
2460.40	14.3	13.3	-28.0	-27.0	-1.0	2.0	1.00E-04
2460.45	13.3	13.3	-29.0	-27.0	-2.0	2.0	1.00E-04
2460.50	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2460.55	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2460.60	13.3	13.3	-29.0	-27.0	-2.0	2.0	1.00E-04
2460.65	11.3	13.3	-31.0	-27.0	-4.0	2.0	1.00E-04
2460.70	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2460.75	10.2	13.3	-32.1	-27.0	-5.1	2.0	1.00E-04
2460.80	10.3	13.3	-32.0	-27.0	-5.0	2.0	1.00E-04
2460.85	11.3	13.3	-31.0	-27.0	-4.0	2.0	1.00E-04
2460.90	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2460.95	11.3	13.3	-31.0	-27.0	-4.0	2.0	1.00E-04
2461.00	12.4	13.3	-29.9	-27.0	-2.9	2.0	1.00E-04
2461.05	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2461.10	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2461.15	12.3	13.3	-30.0	-27.0	-3.0	2.0	1.00E-04
2461.20	13.4	13.3	-28.9	-27.0	-1.9	2.0	1.00E-04
2461.25	15.3	13.3	-27.0	-27.0	0.0	2.0	1.00E-04
2461.30	15.4	13.3	-26.9	-27.0	0.1	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.3**

96kChannel 14 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2453.90	14.2	13.3	-28.3	-27.2	-1.1	2.0	1.00E-04
2453.95	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2454.00	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2454.05	8.2	13.3	-34.3	-27.2	-7.1	2.0	1.00E-04
2454.10	10.1	13.3	-32.4	-27.2	-5.2	2.0	1.00E-04
2454.15	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2454.20	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2454.25	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2454.30	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2454.35	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2454.40	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2454.45	9.2	13.3	-33.3	-27.2	-6.1	2.0	1.00E-04
2454.50	10.0	13.3	-32.5	-27.2	-5.3	2.0	1.00E-04
2454.55	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2454.60	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2454.65	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2454.70	13.2	13.3	-29.3	-27.2	-2.1	2.0	1.00E-04
2454.75	14.2	13.3	-28.3	-27.2	-1.1	2.0	1.00E-04
2454.80	15.0	13.3	-27.5	-27.2	-0.3	2.0	1.00E-04
2454.85	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2454.90	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2454.95	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.00	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.05	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.10	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.15	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.20	15.0	13.3	-27.5	-27.2	-0.3	2.0	1.00E-04
2455.25	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2455.30	15.0	13.3	-27.5	-27.2	-0.3	2.0	1.00E-04
2455.35	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2455.40	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2455.45	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2455.50	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2455.55	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2455.60	13.2	13.3	-29.3	-27.2	-2.1	2.0	1.00E-04
2455.65	13.2	13.3	-29.3	-27.2	-2.1	2.0	1.00E-04
2455.70	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2455.75	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2455.80	13.1	13.3	-29.4	-27.2	-2.2	2.0	1.00E-04
2455.85	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2455.90	10.1	13.3	-32.4	-27.2	-5.2	2.0	1.00E-04
2455.95	11.1	13.3	-31.4	-27.2	-4.2	2.0	1.00E-04
2456.00	11.1	13.3	-31.4	-27.2	-4.2	2.0	1.00E-04
2456.05	11.1	13.3	-31.4	-27.2	-4.2	2.0	1.00E-04
2456.10	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2456.15	12.0	13.3	-30.5	-27.2	-3.3	2.0	1.00E-04
2456.20	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2456.25	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2456.30	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2456.35	11.1	13.3	-31.4	-27.2	-4.2	2.0	1.00E-04
2456.40	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2456.45	14.1	13.3	-28.4	-27.2	-1.2	2.0	1.00E-04
2456.50	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.5**

96kbps Channel 15 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2463.50	13.3	13.3	-29.2	-27.2	-2.0	2.0	1.00E-04
2463.55	12.3	13.3	-30.2	-27.2	-3.0	2.0	1.00E-04
2463.60	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2463.65	8.4	13.3	-34.1	-27.2	-6.9	2.0	1.00E-04
2463.70	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2463.75	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2463.80	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2463.85	10.4	13.3	-32.1	-27.2	-4.9	2.0	1.00E-04
2463.90	11.3	13.3	-31.2	-27.2	-4.0	2.0	1.00E-04
2463.95	10.3	13.3	-32.2	-27.2	-5.0	2.0	1.00E-04
2464.00	9.3	13.3	-33.2	-27.2	-6.0	2.0	1.00E-04
2464.05	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2464.10	10.2	13.3	-32.3	-27.2	-5.1	2.0	1.00E-04
2464.15	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2464.20	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2464.25	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2464.30	14.1	13.3	-28.4	-27.2	-1.2	2.0	1.00E-04
2464.35	14.2	13.3	-28.3	-27.2	-1.1	2.0	1.00E-04
2464.40	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.45	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.50	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.55	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.60	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.65	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.70	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.75	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.80	15.2	13.3	-27.3	-27.2	-0.1	2.0	1.00E-04
2464.85	14.9	13.3	-27.6	-27.2	-0.4	2.0	1.00E-04
2464.90	15.0	13.3	-27.5	-27.2	-0.3	2.0	1.00E-04
2464.95	15.0	13.3	-27.5	-27.2	-0.3	2.0	1.00E-04
2465.00	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2465.05	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2465.10	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2465.15	15.1	13.3	-27.4	-27.2	-0.2	2.0	1.00E-04
2465.20	13.1	13.3	-29.4	-27.2	-2.2	2.0	1.00E-04
2465.25	13.1	13.3	-29.4	-27.2	-2.2	2.0	1.00E-04
2465.30	12.2	13.3	-30.3	-27.2	-3.1	2.0	1.00E-04
2465.35	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2465.40	13.1	13.3	-29.4	-27.2	-2.2	2.0	1.00E-04
2465.45	11.2	13.3	-31.3	-27.2	-4.1	2.0	1.00E-04
2465.50	9.7	13.3	-32.8	-27.2	-5.6	2.0	1.00E-04
2465.55	10.9	13.3	-31.6	-27.2	-4.4	2.0	1.00E-04
2465.60	10.5	13.3	-32.0	-27.2	-4.8	2.0	1.00E-04
2465.65	11.5	13.3	-31.0	-27.2	-3.8	2.0	1.00E-04
2465.70	12.6	13.3	-29.9	-27.2	-2.7	2.0	1.00E-04
2465.75	12.1	13.3	-30.4	-27.2	-3.2	2.0	1.00E-04
2465.80	11.9	13.3	-30.6	-27.2	-3.4	2.0	1.00E-04
2465.85	11.7	13.3	-30.8	-27.2	-3.6	2.0	1.00E-04
2465.90	12.0	13.3	-30.5	-27.2	-3.3	2.0	1.00E-04
2465.95	10.7	13.3	-31.8	-27.2	-4.6	2.0	1.00E-04
2466.00	13.1	13.3	-29.4	-27.2	-2.2	2.0	1.00E-04
2466.05	14.9	13.3	-27.6	-27.2	-0.4	2.0	1.00E-04
2466.10	16.0	13.3	-26.5	-27.2	0.7	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.4**

96kbps Channel 16 Processing Gain							
Gp = (S/N)o + Mj + Lsys							
Freq.	Gp	(S/N)o	Jammer	Tx power	Mj = J/S	Lsys	PER
(MHz)	(dB)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)
2468.30	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2468.35	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2468.40	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2468.45	8.5	13.3	-33.9	-27.1	-6.8	2.0	1.00E-04
2468.50	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2468.55	10.5	13.3	-31.9	-27.1	-4.8	2.0	1.00E-04
2468.60	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2468.65	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2468.70	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2468.75	10.5	13.3	-31.9	-27.1	-4.8	2.0	1.00E-04
2468.80	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2468.85	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2468.90	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2468.95	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2469.00	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2469.05	12.3	13.3	-30.1	-27.1	-3.0	2.0	1.00E-04
2469.10	13.4	13.3	-29.0	-27.1	-1.9	2.0	1.00E-04
2469.15	14.3	13.3	-28.1	-27.1	-1.0	2.0	1.00E-04
2469.20	14.3	13.3	-28.1	-27.1	-1.0	2.0	1.00E-04
2469.25	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.30	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.35	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.40	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.45	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.50	15.2	13.3	-27.2	-27.1	-0.1	2.0	1.00E-04
2469.55	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.60	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.65	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.70	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.75	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.80	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.85	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.90	15.3	13.3	-27.1	-27.1	0.0	2.0	1.00E-04
2469.95	15.2	13.3	-27.2	-27.1	-0.1	2.0	1.00E-04
2470.00	14.3	13.3	-28.1	-27.1	-1.0	2.0	1.00E-04
2470.05	13.2	13.3	-29.2	-27.1	-2.1	2.0	1.00E-04
2470.10	13.3	13.3	-29.1	-27.1	-2.0	2.0	1.00E-04
2470.15	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2470.20	13.3	13.3	-29.1	-27.1	-2.0	2.0	1.00E-04
2470.25	11.3	13.3	-31.1	-27.1	-4.0	2.0	1.00E-04
2470.30	10.3	13.3	-32.1	-27.1	-5.0	2.0	1.00E-04
2470.35	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2470.40	10.4	13.3	-32.0	-27.1	-4.9	2.0	1.00E-04
2470.45	10.5	13.3	-31.9	-27.1	-4.8	2.0	1.00E-04
2470.50	12.3	13.3	-30.1	-27.1	-3.0	2.0	1.00E-04
2470.55	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2470.60	11.6	13.3	-30.8	-27.1	-3.7	2.0	1.00E-04
2470.65	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2470.70	12.5	13.3	-29.9	-27.1	-2.8	2.0	1.00E-04
2470.75	11.4	13.3	-31.0	-27.1	-3.9	2.0	1.00E-04
2470.80	12.4	13.3	-30.0	-27.1	-2.9	2.0	1.00E-04
2470.85	15.5	13.3	-26.9	-27.1	0.2	2.0	1.00E-04
2470.90	15.6	13.3	-26.8	-27.1	0.3	2.0	1.00E-04

Processing gain(dB) @20th percentile = **10.4**