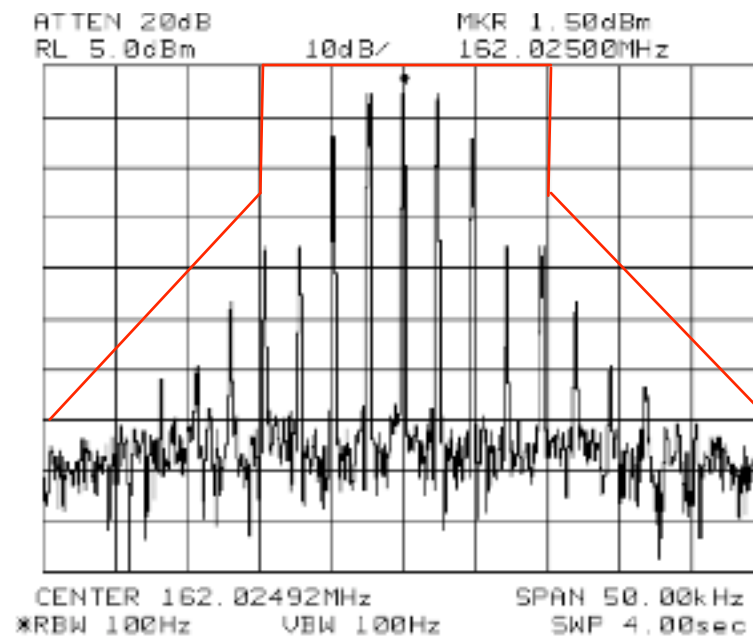
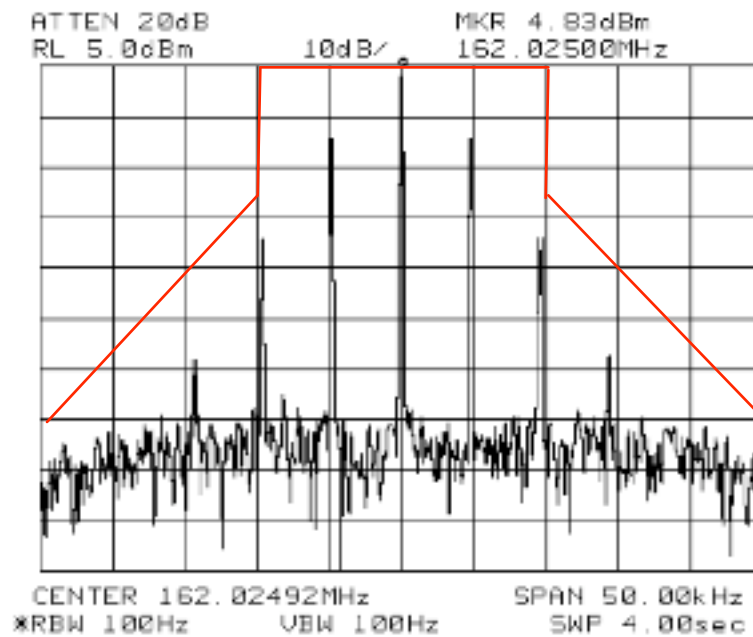


VIII. Measurement Results for AIS Physical Tests Cont'd:

3. Modulation Spectrum 25 kHz Channel TDMA Signals 2 & 3.

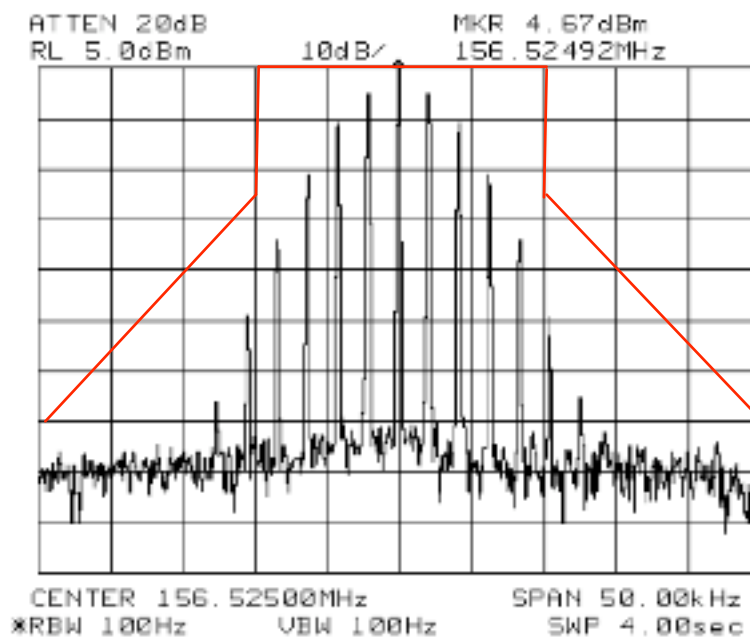
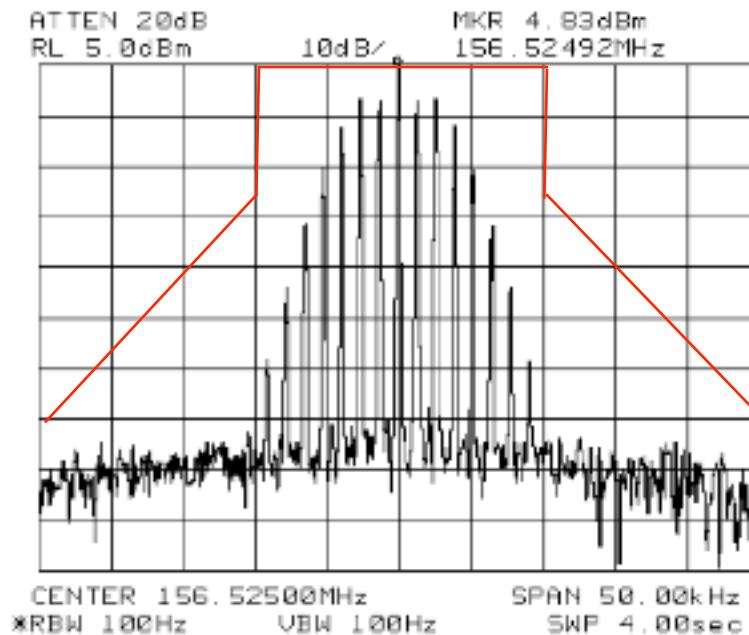
25kHz Envelope: 0dB $\pm$ 10kHz, decrease -25dBc to -70dBc from $\pm$ 10kHz to $\pm$ 25kHz



VIII. Measurement Results for AIS Physical Tests Cont'd:

3. Modulation Spectrum 25 kHz DSC Test Signal 1, 1300 & 2100 States.

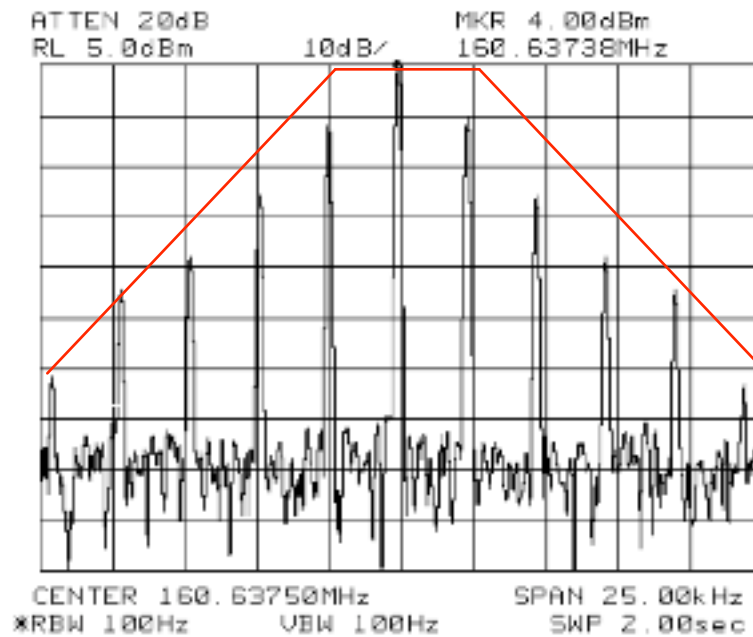
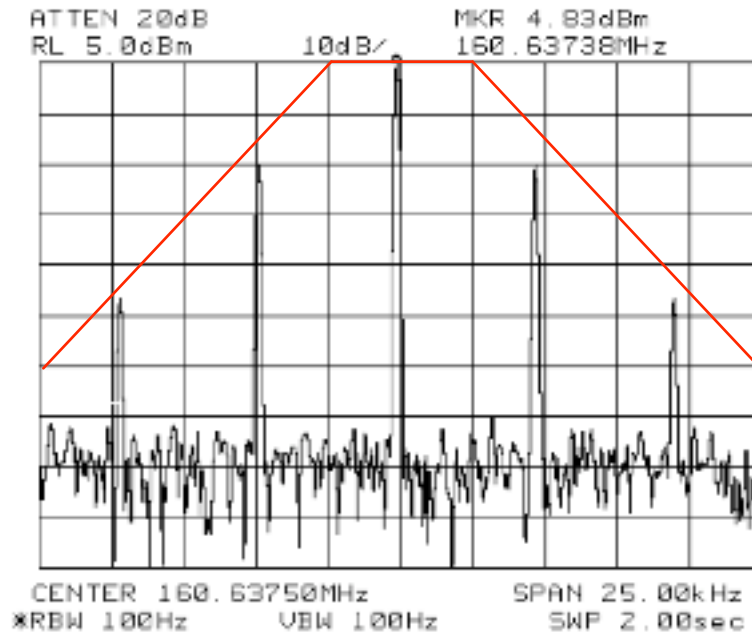
25kHz Envelope: 0dB $\pm$ 10kHz, decrease -25dBc to -70dBc from $\pm$ 10kHz to $\pm$ 25kHz



VIII. Measurement Results for AIS Physical Tests Cont'd:

3. Modulation Spectrum 12.5 kHz TDMA Signals 2 & 3.

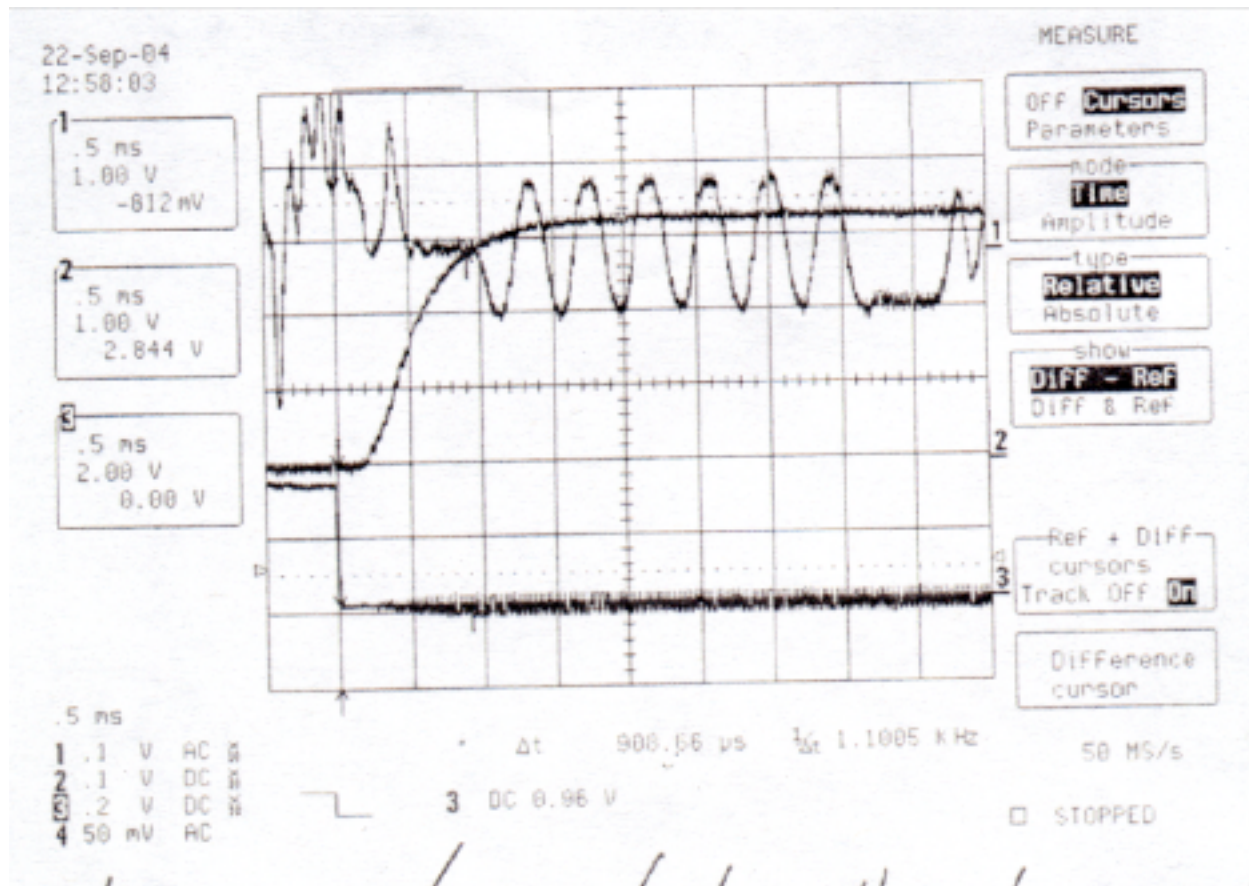
12.5kHz Envelope: 0dB $\pm$ 2.5kHz, decrease 0dBc to -60dBc from $\pm$ 2.5kHz to $\pm$ 12.5kHz



VIII. Measurement Results for AIS Physical Tests Cont'd:

4. Attack/Release Time.

Attack Specification: 80% power at 1ms,



ce 1: Test discriminator output. Full scale signal is ± 2.4 kHz de
e 2: Test receiver RSSI. Relative indication of carrier p
e 3: EUT Transmitter ON signal (T_0) at falling edge
= Time for carrier power to reach steady state - 1 dB,
which is transmitter attack time
is within ± 1 kHz after 1ms

VIII. Measurement Results for AIS Physical Tests Cont'd:

5. Sensitivity (DSC Results).

Specification: -107 dBm @ 0.01 BER Normal

Settings: 100 dBm out -7 dB combiner = -107 dBm at EUT

Measured: -107 dBm @ 0 BER

9/21/04 Section 15.4.1 Sensitivity @ -107 dBm @ 156.5235 MHz_T,144342,64149573

[illegible]

9/21/04 Section 15.4.1 Sensitivity @ -107 dBm @ 156.525 MHz_T,143849,36091973

[illegible]

VIII. Measurement Results for AIS Physical Tests Cont'd:

9/21/04 Section 15.4.1 Sensitivity @ -107 dBm @ 156.5265 MHz T,144114,49969733

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)

5. Sensitivity (DSC Error at High Input).

Specification: -7 dBm @ .01 BER Normal

Settings: 0 dBm out -7dB combiner = -7 dBm at EUT

Measured: -7 dBm @ 0 BER

9/21/04 Section 15.4.2 High input level T,145029,103230533

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. Co-Channel Rejection.

25 kHz Specification: -10 dB to 0 dB

Measured: -7 dB @ 0% PER

9/20/04 Section 15.3.4 B = 400 Hz modulation Co Channel lower T,183854,351371334

AIS: 75/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.0)	DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.4 B = Test signal 2 modulation Co Channel lower T,130316,357963333

AIS: 73/75 packets (Avg. 72.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.4)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.7)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.7)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 71/75 packets (Avg. 73.4)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.4)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.7)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 72/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.6)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 71/75 packets (Avg. 73.4)	DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. Co-Channel Rejection Cont'd.

25 kHz Specification: -10 dB to 0 dB

Measured: -7 dB@ 0% PER

9/20/04 Section 15.3.4 center B = 400 Hz modulation Co Channel T,183509,329693254

AIS: 74/75 packets (Avg. 74.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.5)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 71/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.1)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2)	DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.4 center B = Test signal 2 modulation Co Channel T,125840,331451973

AIS: 75/75 packets (Avg. 75.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.7)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. Co-Channel Rejection Cont'd.

25 kHz Specification: -10 dB to 0 dB

Measured: -7 dB@ 0% PER

9/20/04 Section 15.3.4 B = 400 Hz modulation Co Channel upper T,183509,329693254

AIS: 74/75 packets (Avg. 74.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 71/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.1) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.3) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.3) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.2) DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.4 B = Test signal 2 modulation Co Channel upper T,130057,344623173

AIS: 73/75 packets (Avg. 73.7) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 72/75 packets (Avg. 73.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 72/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.7) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 72/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.7) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 72/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 71/75 packets (Avg. 73.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 73.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 73.6) DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. Co-Channel Rejection Cont'd.

12.5 kHz Specification: -18 dB to 0 dB

Measured: -8 dB@ 0% PER

9/21/04 Section 15.3.5B = 400 Hz modulation Co Channel @ 160.6360 MHz T, 133815,559455813

AIS: 75/75 packets (Avg. 75.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.7)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9)	DSC: 0/0 bit-errors (Avg. 0.0000)

9/21/04 Section 15.3.5B = Test signal 2 modulation Co Channel @ 160.6360 MHz T.135004.627521093

[illegible]

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. Co-Channel Rejection Cont'd.

12.5 kHz Specification: -18 dB to 0 dB

Measured: -8 dB@ 0% PER

9/21/04 Section 15.3.5B = 400 Hz modulation Co Channel @ 160.6375 MHz T,133215,52491117

AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

9/21/04 Section 15.3.5B = Test signal 2 modulation Co Channel @ 160.6375 MHz T,134554,60353133

AIS: 74/75 packets (Avg. 74.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.7) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 76/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. DSC Co-Channel Rejection.

Specification: -10 dB to 0 dB Normal, 0.01 BER

Measured: -8 dB @ 0 BER

9/21/04 Section 15.4.3 Co channel @ -8 dB @ 156.522 MHz T,150354,180524613

[illegible]

9/21/04 Section 15.4.3 Co channel @ -8 dB @ 156.525 MHz T.145817.148181573

[illegible]

VIII. Measurement Results for AIS Physical Tests Cont'd:

6. DSC Co-Channel Rejection cont'd.

Specification: -10 dB to 0 dB Normal, 0.01 BER

Measured: -8 dB @ 0 BER

9/21/04 Section 15.4.3 Co channel @ -8 dB @ 156.528 MHz T,150110,164826693

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

7. Adjacent Channel Selectivity.

25 kHz Specification: ≥ 70 dB Normal

Measured: 77 dB @ 0% PER

9/21/04 Section 15.3.6 Adjacent channel lower T,185000,415263814

AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.6 Adjacent channel upper

AIS: 73/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 73/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.4) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.5) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.7) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.8) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 74/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 74.9) DSC: 0/0 bit-errors (Avg. 0.0)

VIII. Measurement Results for AIS Physical Tests Cont'd:

7. Adjacent Channel Selectivity.

12.5 kHz Specification: ≥ 50 dB Normal

Measured: 55 dB@ 0% PER

9/21/04 Section 15.3.7 Adjacent channel @ 160.650 MHz T,135801,673265733

[illegible]

9/21/04Section 15.3.7Adjacent channel @ 160.625 MHz T,140053.689782853

[illegible]

VIII. Measurement Results for AIS Physical Tests Cont'd:

7. DSC Adjacent Channel Selectivity.

Specification: >70 dB Normal, 0.01 BER Normal

Measured: 82 dB @ 0 BER

9/21/04 Section 15.4.4 Adjacent channel @ 156.500 MHz T,150944,214175813

[illegible]

9/21/04Section 15.4.4Adjacent channel @ 156.550 MHz T,150706,198936133

[illegible]

VIII. Measurement Results for AIS Physical Tests Cont'd:

8. Spurious Rejection.

Specification: ≥ 70 dB

Measured: 90 dB@ 0% PER

Calculations for limited frequency band of interest "F1 to F2":

$$F1 = f_{lo} - (f_{i1} + f_{i2}) - sr/2, F2 = f_{lo} + (f_{i1} + f_{i2}) + sr/2, sr = 7 \text{ MHz (163 MHz - 156 MHz)}$$

Calculations for spurious responses outside the limited frequency band of interest "FS1 and FS2":

$$FS1 = nf_{lo} - f_i, FS2 = nf_{lo} + f_i, n = 2$$

Channel	f_{lo} MHz	f_{li} MHz	f_{lj} MHz	F1	F2	FS1	FS2
AIS1	71.5	0	0	68	75	71.5	143
DSC	n/a	n/a	n/a	0.1	2000	n/a	n/a

Special Note: L3's new radio design is a "software radio", meaning there is no IF. The receiver analog to digital converter is clocked at 71.5 Mhz, and that can be used as the frequency of the receiver and/or the local oscillator (flo). There is no intermediate frequency therefore we use 0 for flj. The whole RF band pass (156 MHz - 163 MHz) is applied to the analog to digital converter (ADC). Therefore it is impossible for the L3 AIS radio design to receive spurious signals based on the LO frequency.

9/20/04 Section 15.3.8 Spurious @ 68 MHz T,191332,50579007
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

8. Spurious Rejection.

Specification: ≥ 70 dB

Measured: 90 dB@ 0% PER

9/20/04 Section 15.3.8 Spurious @ 75 MHz T,191507,59631167
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.8 Spurious @ 143 MHz T,191856,81626687
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)
AIS: 75/75 packets (Avg. 75.0) DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

8. DSC Spurious Rejection.

Specification: ≥ 70 dB at 0.01 BER

Measured: 80 dB @ 0 BER

9/21/04 Section 15.4.5 Spurious @ +80 dB @ 156.475 MHz T,153213,51219013

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/430 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0004)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0010)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0008)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/360 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0008)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0010)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0010)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)

9/21/04 Section 15.4.5 Spurious @ +80 dB @ 156.575 MHz T,153522,69351493

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0022)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0015)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0004)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0005)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0006)

VIII. Measurement Results for AIS Physical Tests Cont'd:

9. Intermodulation Rejection. Specification: PER $\leq 20\%$, Measured: PER 10%

Signal Generator	A	B	C	D
Frequency1 MHz	162.025	161.525	163.025	167.750
Frequency2 MHz	156.025	155.525	157.025	150.300
Value at EUT	-101	-27	-27	-15

9/20/04 Section 15.3.9 Intermod T,194008,203802687

AIS: 72/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 72.5) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 73.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 66/75 packets (Avg. 71.2) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 70/75 packets (Avg. 71.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 67/75 packets (Avg. 70.3) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 70.6) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 71.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 71.2) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 71.2) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 71.2) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 69/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 69/75 packets (Avg. 70.9) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 70.9) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 69/75 packets (Avg. 70.9) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 70.9) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 70/75 packets (Avg. 71.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 71.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 70/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)

9/20/04 Section 15.3.9 Intermod T,194247,219029567

AIS: 73/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 70/75 packets (Avg. 71.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 68/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 70/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 71.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.5) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 72.0) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 69/75 packets (Avg. 71.2) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 71.6) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 71.8) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 71.9) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.1) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 75/75 packets (Avg. 72.4) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.6) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 72.5) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 71/75 packets (Avg. 72.4) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 72.4) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 72/75 packets (Avg. 72.4) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 74/75 packets (Avg. 72.5) DSC: 0/0 bit-errors (Avg. 0.0000)
 AIS: 73/75 packets (Avg. 72.5) DSC: 0/0 bit-errors (Avg. 0.0000)

VIII. Measurement Results for AIS Physical Tests Cont'd:

9. DSC Intermodulation Rejection.

Specification: ≥ 65 dB @ .01 BER

Measured: 75 dB @ 0 BER

9/21/04 Section 15.4.6 Intermod @ 65 dB lower T,155446,48733251

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)

9/21/04 Section 15.4.6 Intermod @ 65 dB upper T,155023,23489091

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0001)

VIII. Measurement Results for AIS Physical Tests Cont'd:

10. T/R Switching Time.

Specification: -107 dBm @ 20% PER, Measured: -107 dBm @ 20% PER

The TDMA receiver operates in the slot immediately following the transmit slot.

The attached file contains PI output from our radio that was obtained during the Slot-Reuse test. During this test, the VDL was loaded 100%. The following is an extract from the file:

```
13:05:48 !AIVDM,1,1,,B,100000@00:Ph5FJNqTmkQ2mN4@L9,0*73
13:05:48 !AIVDM,1,1,,B,100000P00:Pek9NNWCCkQ2mN4@L:,0*57
13:05:48 !AIVDM,1,1,,B,100000h00:Ph5srNqaQkQ2mN4@L:,0*5D
13:05:48 !AIVDM,1,1,,B,100001000:PekfvNWH03Q2mN4@L<,0*77
13:05:48 !AIVDM,1,1,,B,100001@00:Ph6QJNqf>3Q2mN4@L=,0*5B
13:05:48 !AIVDM,1,1,,B,100001P00:PeIDNNWLd3Q2mN4@L>,0*58
13:05:48 !AIVDM,1,1,,B,100001h00:Ph76pNqjqkQ2mN4@L?,0*36
13:05:48 !AIVDM,1,1,,B,100002000:PeIqvNWQGkQ2mN4@L@,0*2E
13:05:48 !AIVDM,1,1,,B,100002@00:Ph7dHNqoUkQ2mN4@LA,0*28
13:05:48 !AIVDM,1,1,,B,100002P00:PemOLNWW3SQ2mN4@LB,0*02
13:05:48 !AIVDM,1,1,,B,100002h00:Ph8AnNqtB3Q2mP4@LC,0*44
13:05:48 !AIVDM,1,1,,B,100003000:Pen4tNWbh3Q2mP4@LD,0*34
13:05:48 !AIVDM,1,1,,B,100003@00:Ph8oFNr0v3Q2mP4@LE,0*1E
13:05:48 !AIVDM,1,1,,B,100003P00:PenbJNWgKkQ2mP4@LF,0*40
13:05:48 !AIVDM,1,1,,B,100003h00:Ph9LnNr5akQ2mP4@LG,0*74
13:05:48 !AIVDM,1,1,,B,100004000:Peo?rNWI7kQ2mP4@LH,0*3A
13:05:48 !AIVDM,1,1,,B,100004@00:Ph:2DNr:ESQ2mP4@LI,0*11
13:05:48 !AIVDM,1,1,,B,100004P00:PeomHNWpl3Q2mP4@LJ,0*2F
13:05:48 !AIVDM,1,1,,B,100004h00:Ph:WINr?23Q2mP4@LK,0*64
13:05:48 !AIVDM,1,1,,B,100005000:PepJpNWuP3Q2mP4@LL,0*71
13:05:48 !AIVDM,1,1,,B,100005@00:Ph:=BNrCekQ2mP4@LM,0*7D
13:05:48 !AIVDM,1,1,,B,100005P00:Peq0HN`2;kQ2mP4@LN,0*13
13:05:48 !AIVDM,1,1,,B,100005h00:Ph;jjNrHlkQ2mP4@LO,0*0F
13:05:48 !AIVDM,1,1,,B,100006000:PeqUnN`6oSQ2mP4@LP,0*45
13:05:48 !AIVDM,1,1,,B,100006@00:Ph<H@NrM63Q2mP4@LQ,0*17
13:05:48 !AIVDM,1,1,,B,100006P00:Per;FN`;T3Q2mP4@LR,0*34
13:05:48 !AIVDM,1,1,,B,100006h00:Ph<uhNrQj3Q2mP4@LS,0*68
13:05:48 !AIVDM,1,1,,B,100007000:PerhIN`@?kQ2mP4@LT,0*62
13:05:48 !AIVDM,1,1,,B,100007@00:Ph=S@NrVMkQ2mP4@LU,0*30
13:05:48 !AIVDM,1,1,,B,100007P00:PesFDN`DskQ2mP4@LV,0*4F
13:05:48 !AIVDM,1,1,,B,100007h00:Ph>8fNrc9SQ2mP4@LW,0*2D
13:05:48 !AIVDM,1,1,,B,100008000:PessjN`I`3Q2mP4@L`,0*4B
13:05:48 !AIVDM,1,1,,B,100008@00:Ph>f<Nrgn3Q2mP4@La,0*0B
13:05:48 !AIVDM,1,1,,B,100008P00:PetQBN`ND3Q2mP4@Lb,0*07
13:05:48 !AIVDO,1,1,,,10003tg03r0eoejNWCLec01N0@KQ,0*35
13:05:48 !AIVDM,1,1,,B,100008h00:Ph?CdNrlQkQ2mP4@Lc,0*31
13:05:48 !AIVDM,1,1,,B,100009000:Peu6hN`RwkQ2mP4@Ld,0*5B
13:05:48 !AIVDO,1,1,,B,10003tg03r0eoejNWCLec01N00SB,0*0C
13:05:48 !AIVDM,1,1,,B,100009P00:Peud@N`WcSQ2mP4@Lf,0*6A
```

You can see that during this 1-second interval there are 37 VDM (received messages) and one VDO (transmitted message).

Note that the first VDO does not correspond to a transmitted message.

Since there are 37.5 time-slots in 1 second, our radio must have had to receive a message in a timeslot immediately after the timeslot used for the transmission.

VIII. Measurement Results for AIS Physical Tests Cont'd:

11. DSC Blocking/Desensitization.

Specification: ≥ 84 dB @ $>.01$ BER

Measured: 84 dB @ >.01 BER

9/21/04 Section 15.4.7 Blocking @ 84 dB lower T,160030,81775171

AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0000)
AIS: 0/75 packets (Avg. 0.0)	DSC: 3/450 bit-errors (Avg. 0.0004)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0004)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0004)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0003)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0003)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0003)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0005)

9/21/04 Section 15.4.7 Blocking @ 84 dB upper T,172311,32707652

AIS: 0/75 packets (Avg. 0.0)	DSC: 4/360 bit-errors (Avg. 0.0034)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0025)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0019)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0016)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0013)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0012)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0010)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0008)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0007)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0008)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0009)
AIS: 0/75 packets (Avg. 0.0)	DSC: 2/450 bit-errors (Avg. 0.0012)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0011)
AIS: 0/75 packets (Avg. 0.0)	DSC: 7/450 bit-errors (Avg. 0.0018)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/360 bit-errors (Avg. 0.0019)
AIS: 0/75 packets (Avg. 0.0)	DSC: 3/400 bit-errors (Avg. 0.0021)
AIS: 0/75 packets (Avg. 0.0)	DSC: 1/450 bit-errors (Avg. 0.0021)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/450 bit-errors (Avg. 0.0020)
AIS: 0/75 packets (Avg. 0.0)	DSC: 0/360 bit-errors (Avg. 0.0020)

VIII. Measurement Results for AIS Physical Tests Cont'd:

12. Power Supply.

Overvoltage Specification: 40 VDC Extreme Operation

Reverse Polarity: No Damage, Extreme Operation

Voltage Variation: 21.6 - 31.2 VDC, Extreme Operation

Mode	Specified Value	Measured Value	Observed Effect
Overvoltage	40 VDC	40 VDC	Unit Shuts Down
Reverse Polarity	-24 VDC	-24 VDC	No Effect
Voltage Variation	21.6 VDC to 31.2 VDC	21.6 VDC to 31.2 VDC	Unit Operates Normally

13. Acoustic.

Specification: ≤ 60 dBA @ 1 Meter

AIS Face	Specification dBA	Measured dBA
Front	60	47
Top	60	49
Bottom	60	47
Right Side	60	48
Left Side	60	47
Rear	60	49