

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

## 6. DSC Co-Channel Rejection.

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

\* Unit unaffected by signal at maximum level. Below: First 36 data points of 8192. All data in spreadsheet on CD.

[illegible]



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

## 7. DSC Adjacent Channel Selectivity.

70 dB Normal, 0.01 BER Normal

\* Unit unaffected by signal at maximum level. Below: First 36 data points of 8192. All data in spreadsheet on CD.

[illegible]

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

8. Spurious Rejection.

Specification: 70 dB

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

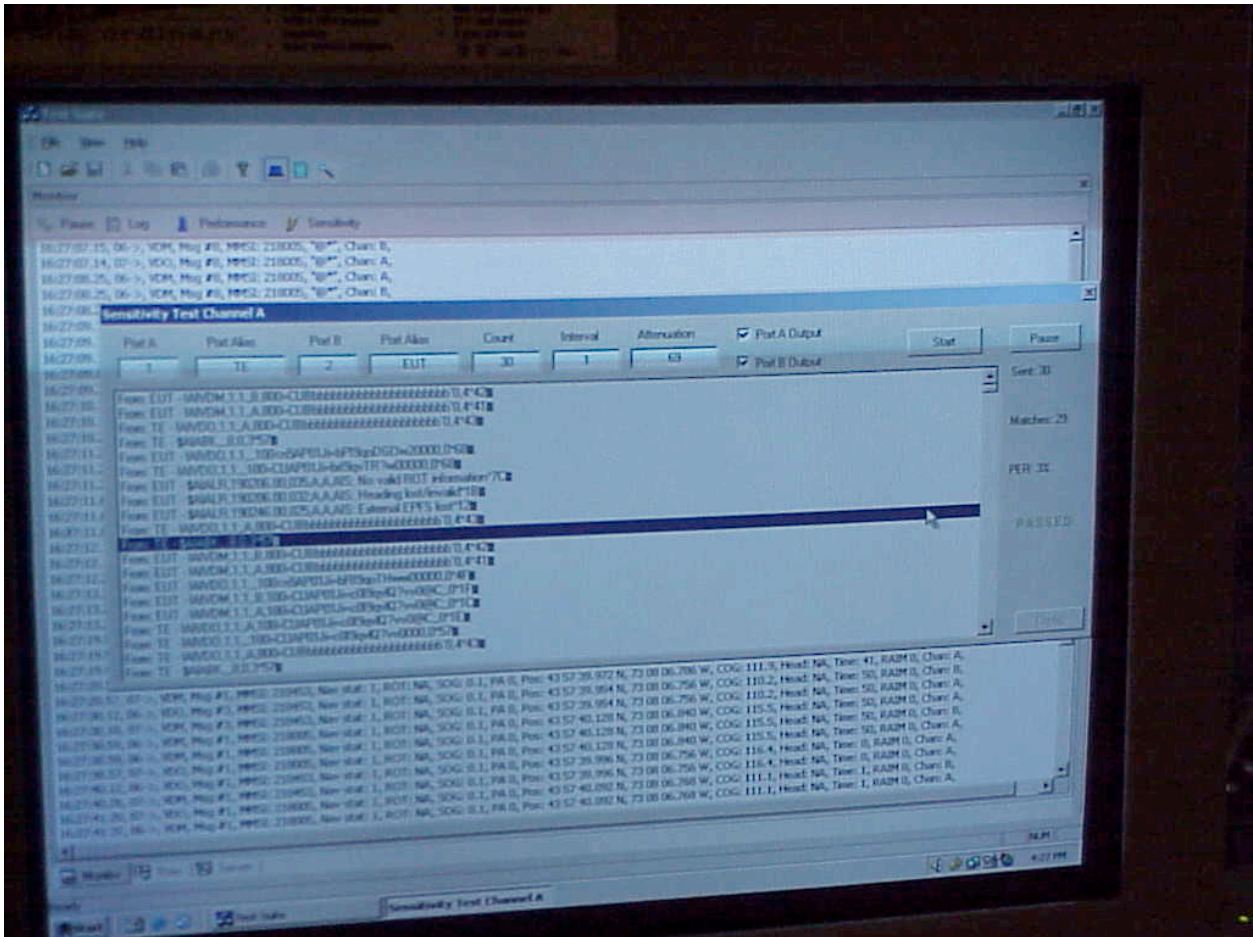
$F1 = f_{i0} - (f_{i1} + f_{i2}) - sr/2$ ,  $F2 = f_{i0} + (f_{i1} + f_{i2}) + sr/2$ ,  $sr = 7 \text{ MHz}$  (163 MHz – 156 MHz)

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

$FS1 = nf_{i0} - f_i$ ,  $FS2 = nf_{i0} + f_{i1}$ ,  $n = 2$

| Channel | $f_{i0}$ MHz | $f_{i1}$ MHz | $f_{i2}$ MHz | F1     | F2      | FS1    | FS2    |
|---------|--------------|--------------|--------------|--------|---------|--------|--------|
| AIS1    | 140.575      | 21.4         | 0.455        | 115.22 | 165.355 | 259.75 | 302.55 |
| AIS2    | 142.925      | 19.1         | 0.455        | 119.87 | 165.98  | 266.75 | 304.95 |
| DSC     | n/a          | n/a          | n/a          | 0.1    | 2000    | n/a    | n/a    |

\* Unit is unaffected by maximum signal levels.



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

## 8. DSC Spurious Rejection.

Specification: 70 dB at 0.01 BER

\* Unit unaffected by signal at maximum level. Below: First 36 data points of 8192. All data in spreadsheet on CD.

[illegible]