

## Application

- 10 BASE-T (IEEE 802.3) Ethernet
- 100 BASE-T (IEEE 802.3u) Fast Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet) (IEEE 802.3 ab)

## Cable Construction

- 1 - Conductor : Electrolytic solid copper conductor.
- 2 - Insulation : Solid polyethylene insulation
- 3 - Stranding : Insulations are stranded into pairs.
- 4 - Separator : Pairs are stranded together with star shaped separator.
- 5 - Wrapping : Polyester tape
- 6 - Screen : Tinned copper earthing wire, Al/PET tape
- 7 - Outer Jacket : UV resistant polyethylene outer jacket. RAL 9004 (Black)

## Technical Characteristics

| Conductor Resistance<br>Ω/km | Insulation Resistance<br>MΩxkm (500 V DC) | Mutual Capacitance<br>nF/km | Capacitance Unbalance<br>% | Propaga-tion Velocity<br>% | Operating Voltage<br>V | Test Voltage<br>V | Characteristic Impedance<br>Ω |
|------------------------------|---|-----------------------------|----------------------------|----------------------------|------------------------|-------------------|-------------------------------|
| 72                           | 5000                                      | 56                          | %2                         | %67-69                     | 250                    | 1200              | 100±%15. 101-250 MHz          |

## Mechanical Characteristics

| Bending Radius | Temperature Range Operating |
|----------------|-----------------------------|
| 8xD mm         | -55°C~+60°C                 |

## Standards

| Manufacturing Std.                             |
|--|
| ANSI/TIA-568-C.2.<br>IEC-61156-5.<br>IEC-11801 |

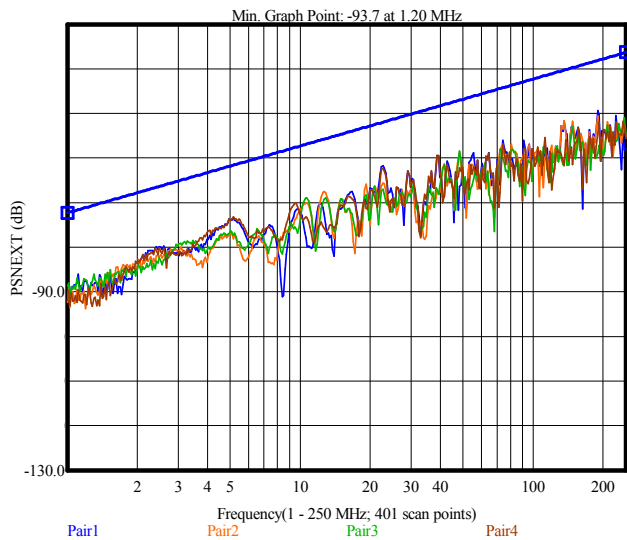
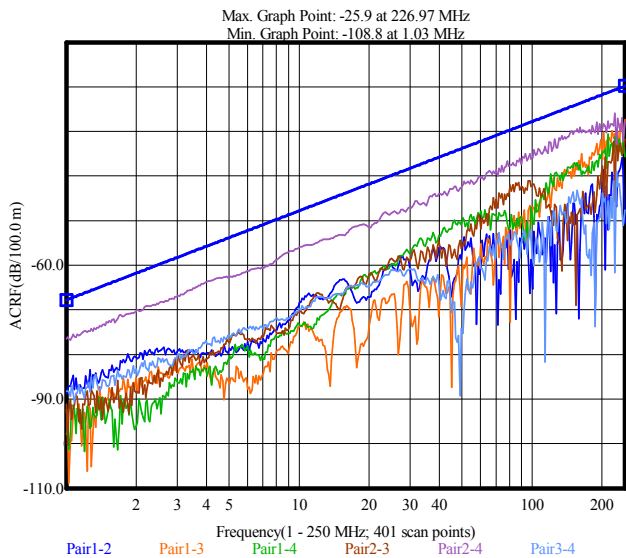
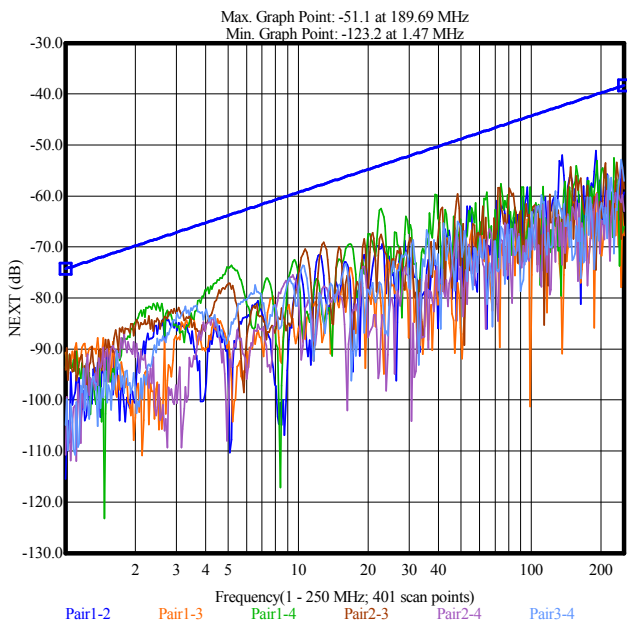
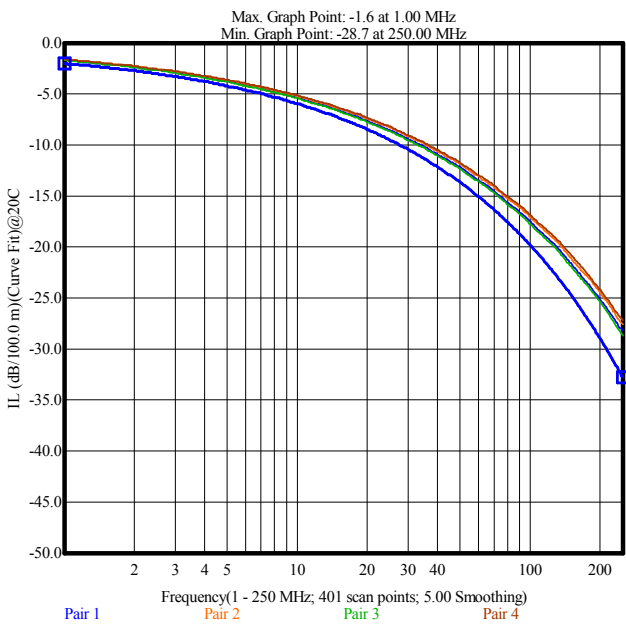
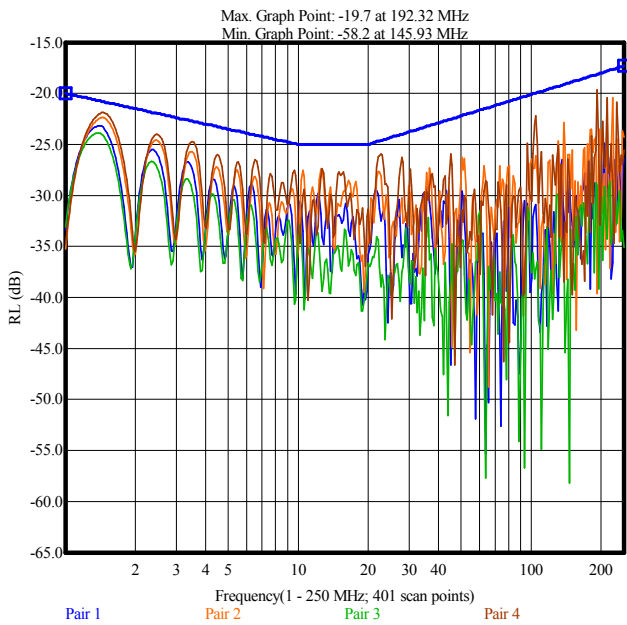
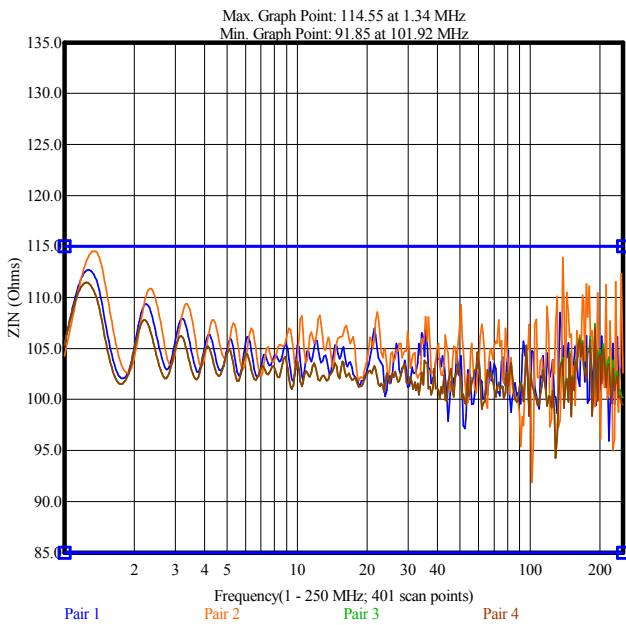
## Electrical Properties

| Frequency MHz | Insertion Loss dB/100m (Max.) | Near-end Crosstalk (NEXT) Loss dB (Min.) | Power-sum Near-end Crosstalk (PSNEXT) Loss dB (Min.) | Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.) | Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.) | Return Loss (RL) dB (Min.) |
|---------------|-------------------------------|--|--|---|---|----------------------------|
| 0.772         | 1.8                           | 76                                       | 74.0   | 70  | 67  | -                          |
| 1             | 2                             | 74.3                                     | 72.3   | 67.8  | 64.8  | 20.0                       |
| 4             | 3.8                           | 65.3                                     | 63.3   | 55.8  | 52.8  | 23.0                       |
| 8             | 5.3                           | 60.8                                     | 58.8   | 49.7  | 46.7  | 24.5                       |
| 10            | 6                             | 59.3                                     | 57.3   | 47.8  | 44.8  | 25                         |
| 16            | 7.6                           | 56.2                                     | 54.2   | 43.7  | 40.7  | 25                         |
| 20            | 8.5                           | 54.8                                     | 52.8   | 41.8  | 38.8  | 24.3                       |
| 25            | 9.5                           | 53.3                                     | 51.3   | 39.8  | 36.8  | 23.6                       |
| 31.25         | 10.7                          | 51.9                                     | 49.9   | 37.9  | 34.9  | 21.5                       |
| 62.5          | 15.4                          | 47.4                                     | 45.4   | 31.9  | 28.9  | 20.1                       |
| 100           | 19.8                          | 44.3                                     | 42.3   | 27.8  | 24.8  | 18                         |
| 200           | 29                            | 39.8                                     | 37.8   | 21.8  | 18.8  | 17.3                       |
| 250           | 32.8                          | 38.3                                     | 36.3   | 19.8  | 16.8  | 16.8                       |

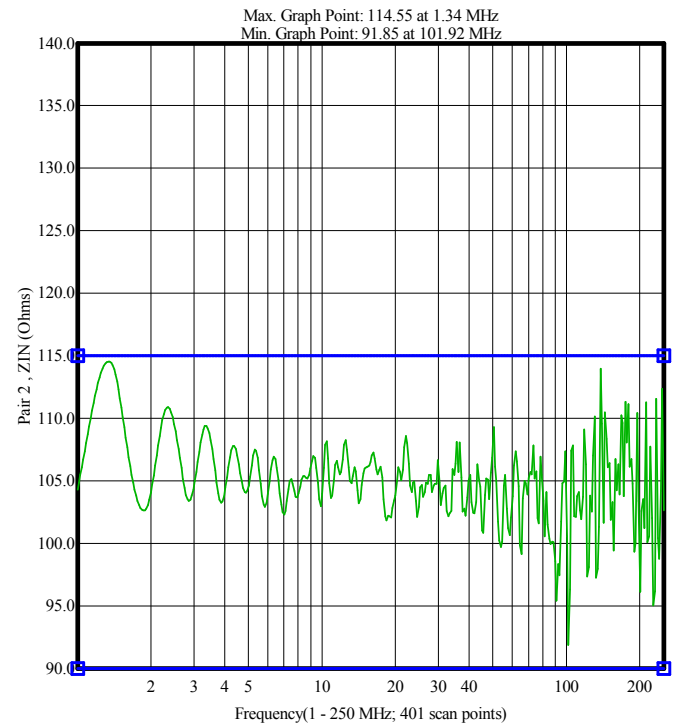
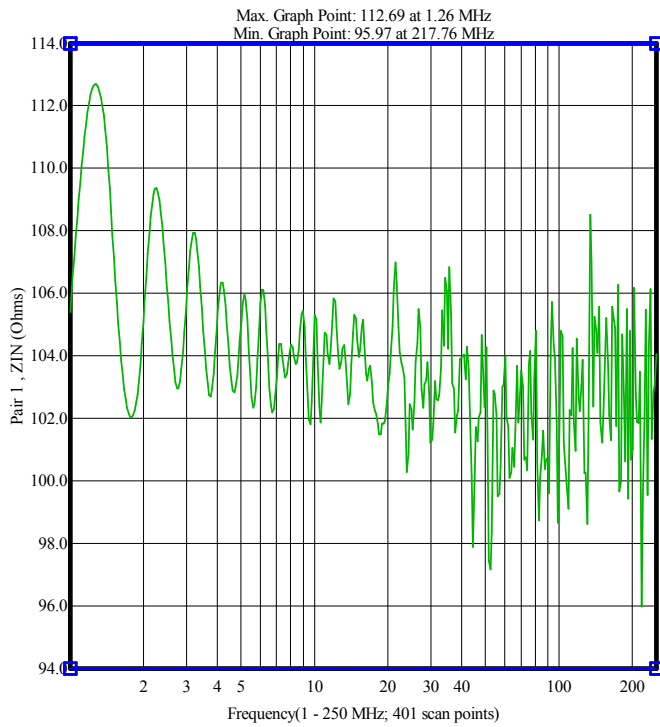
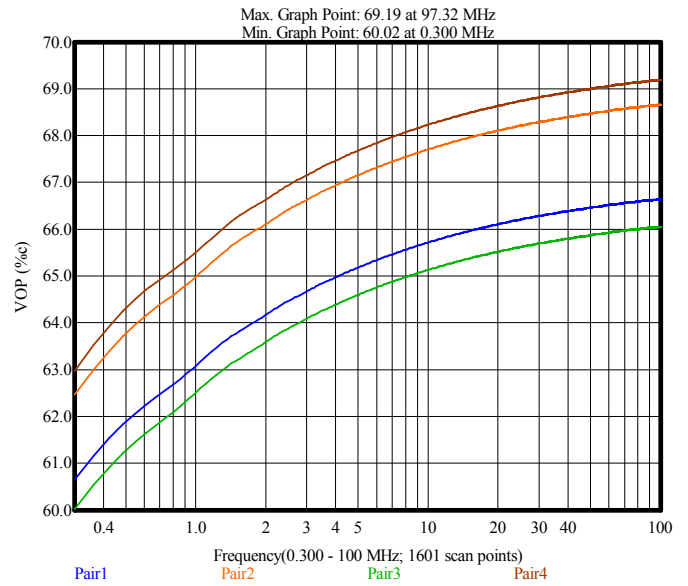
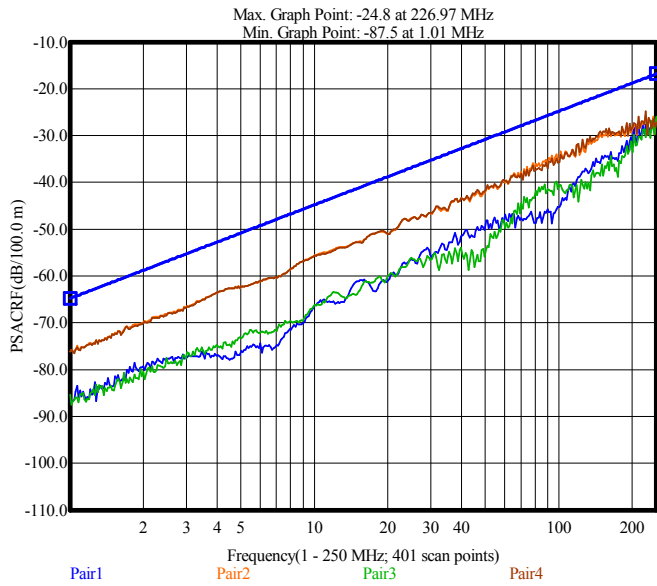
## Cat 6 F/UTP 23 AWG PE

| Part Number           | Pair Count | Conductor Diameter (mm) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-----------------------|------------|-------------------------|-----------------------------|-----------------------|------------------------|---------------------|
| 3.426.2.11.00570.0004 | 4          | 0.57                    | 6.6                         | 21.1                  | 46                     | 100/500/1000        |

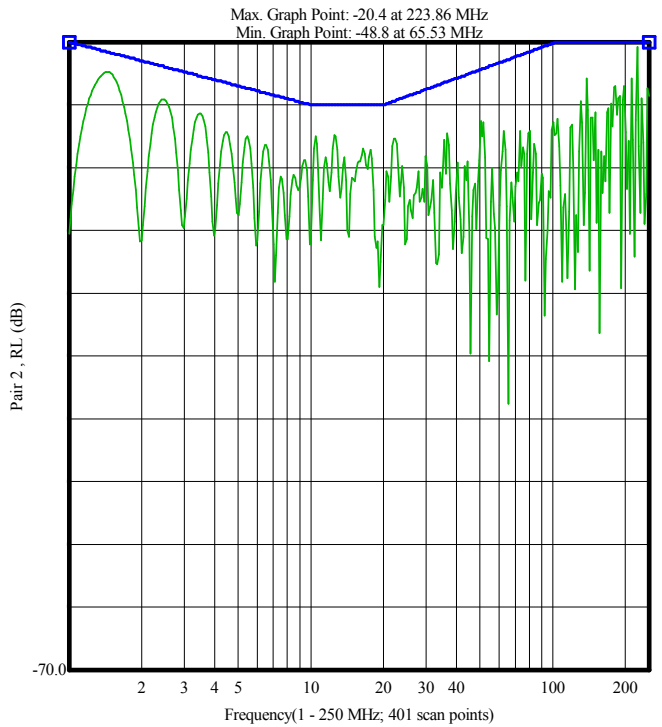
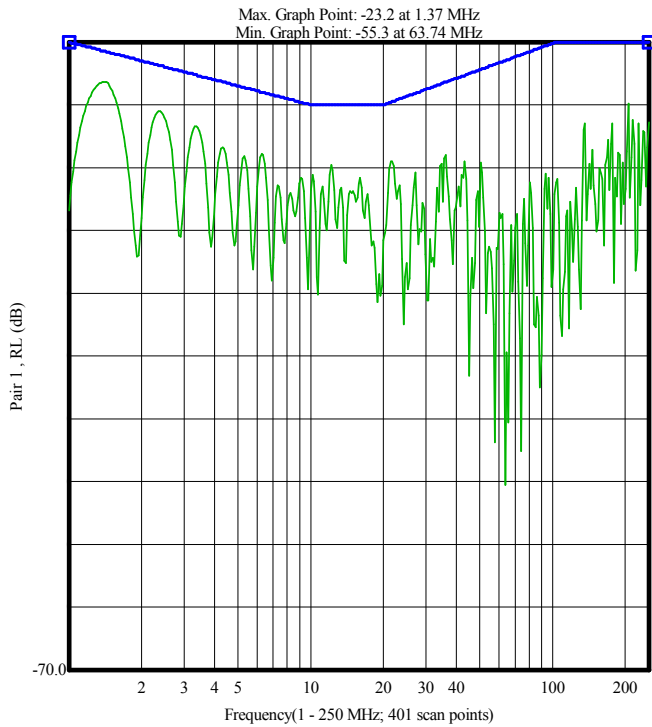
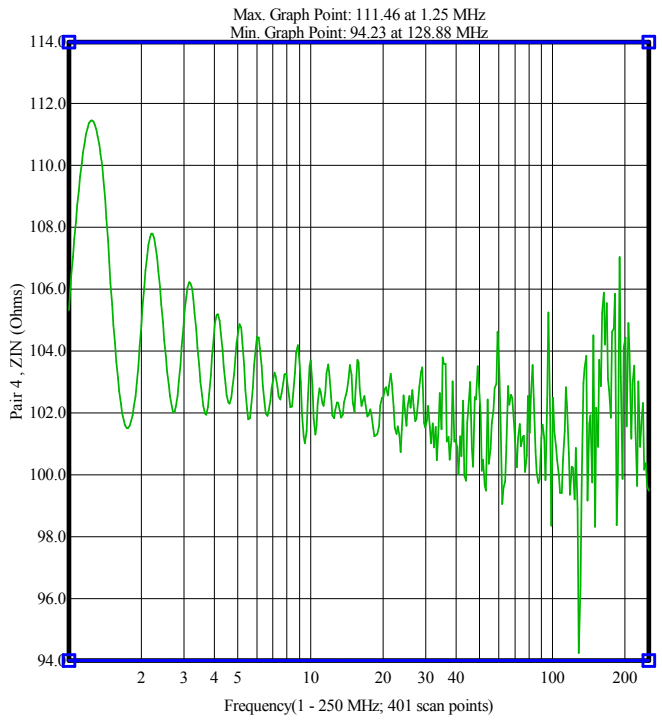
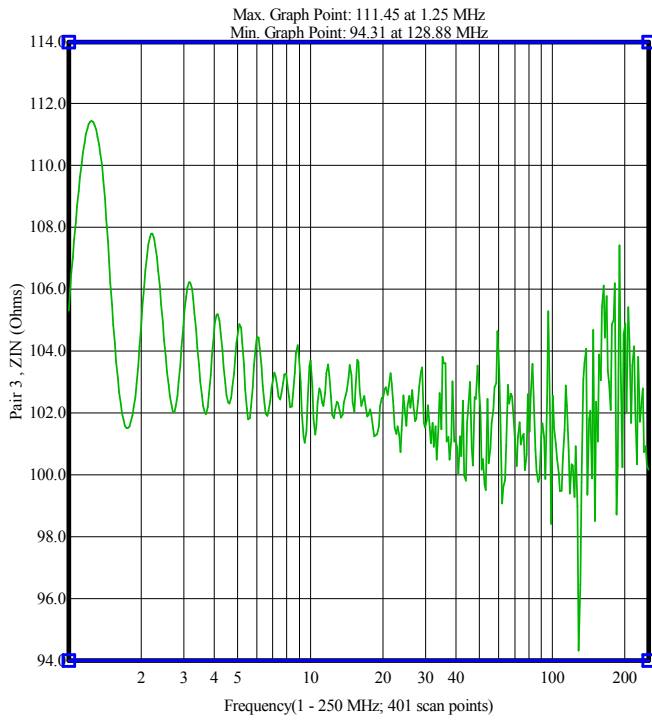
## Cat 6 Test Result Graphs



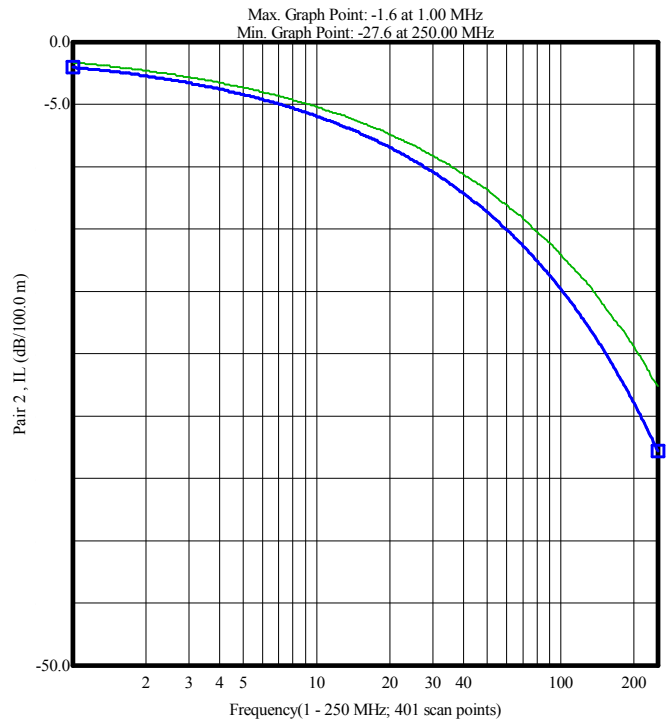
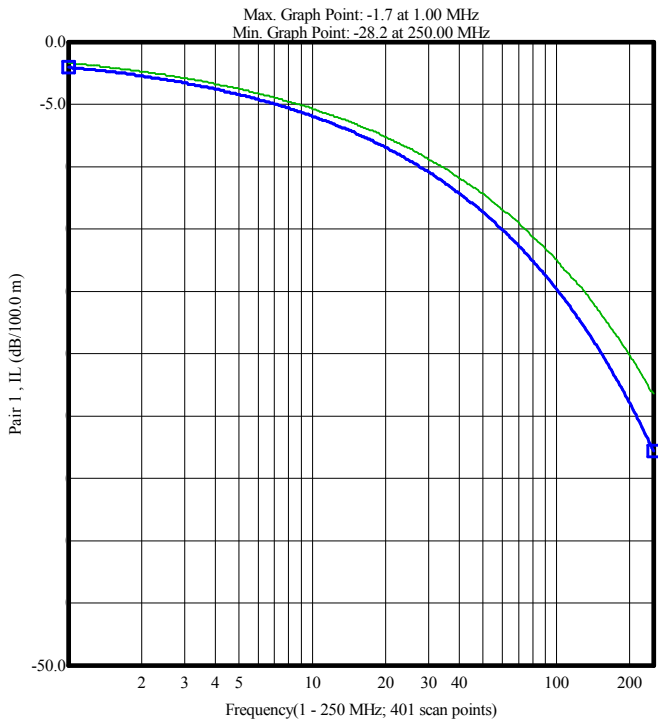
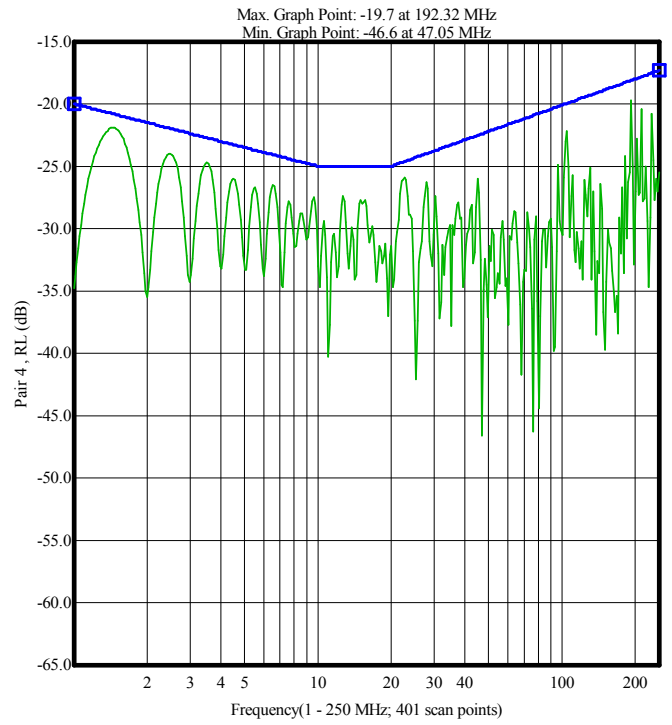
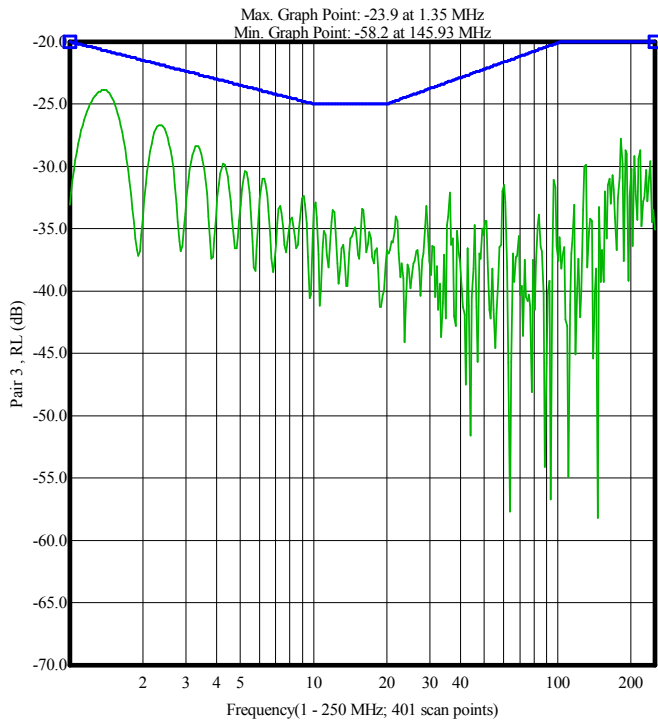
## Cat 6 Test Result Graphs



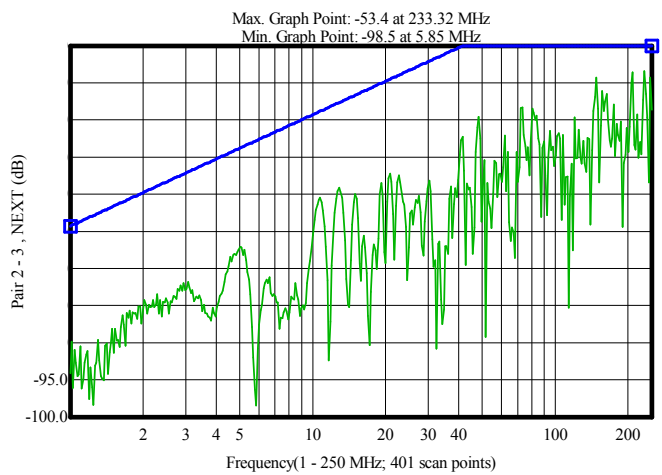
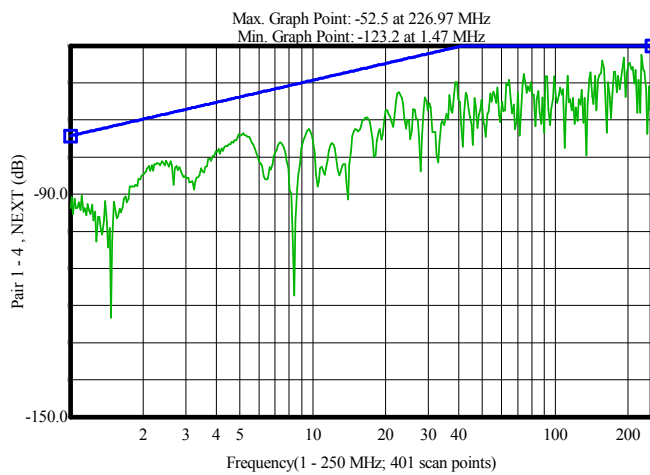
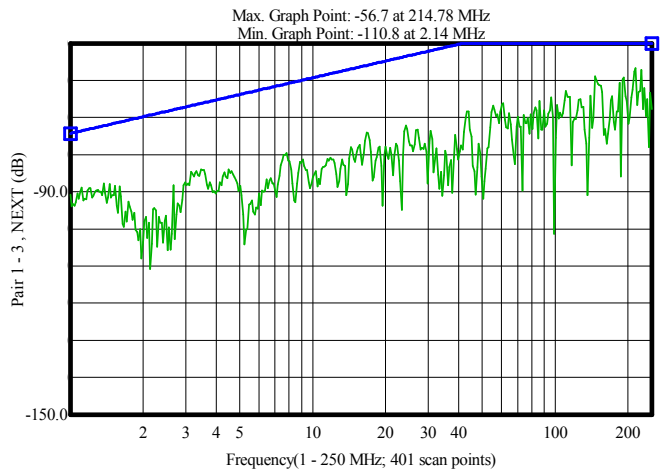
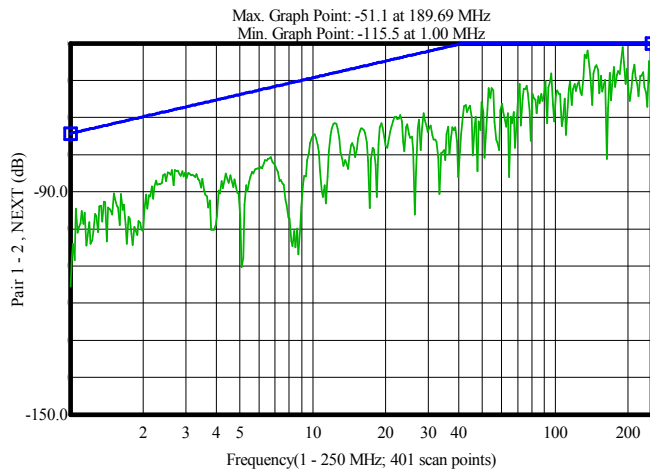
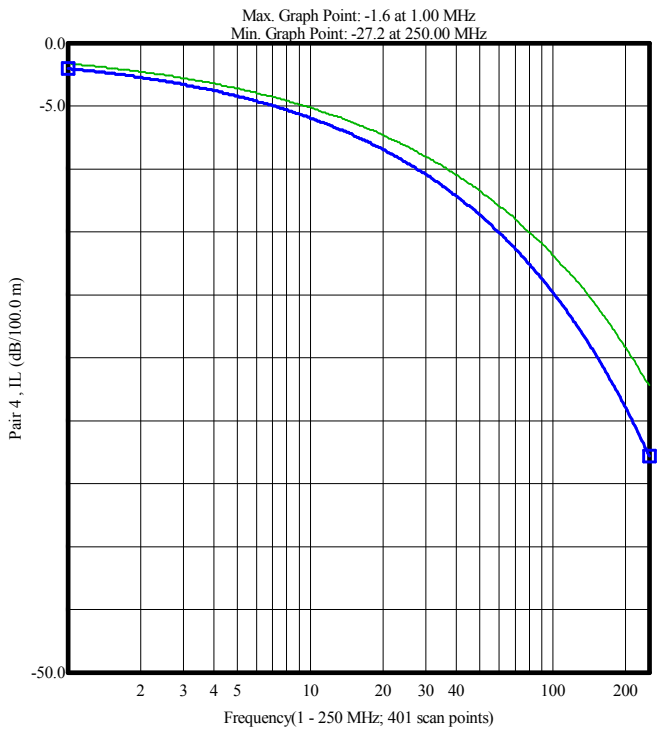
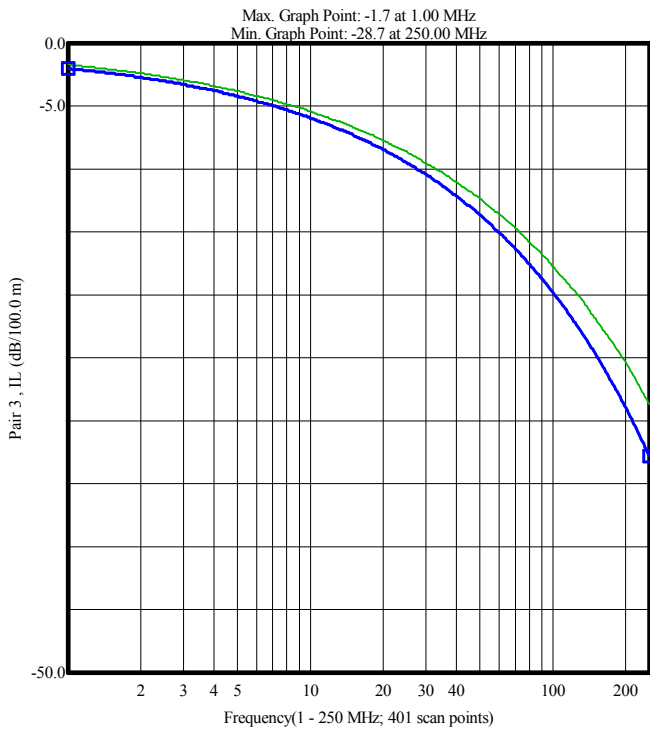
## Cat 6 Test Result Graphs



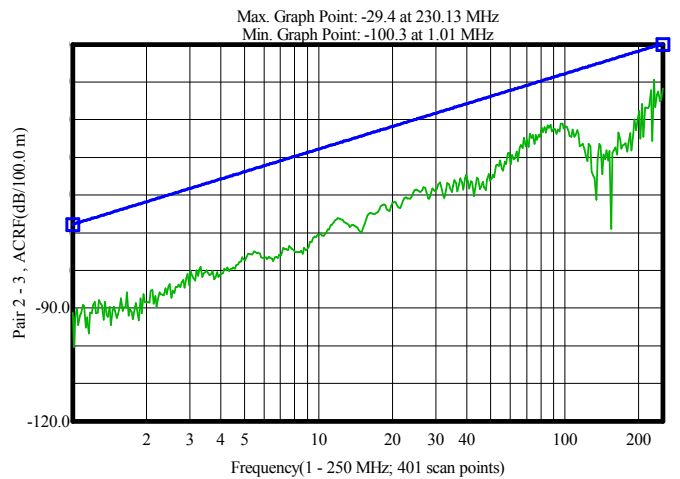
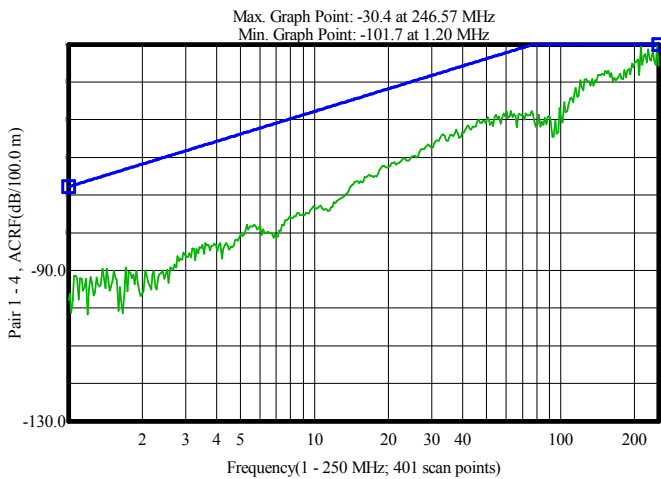
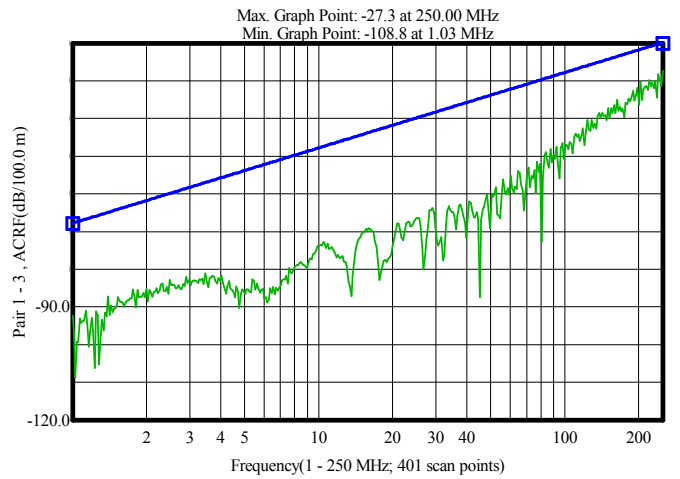
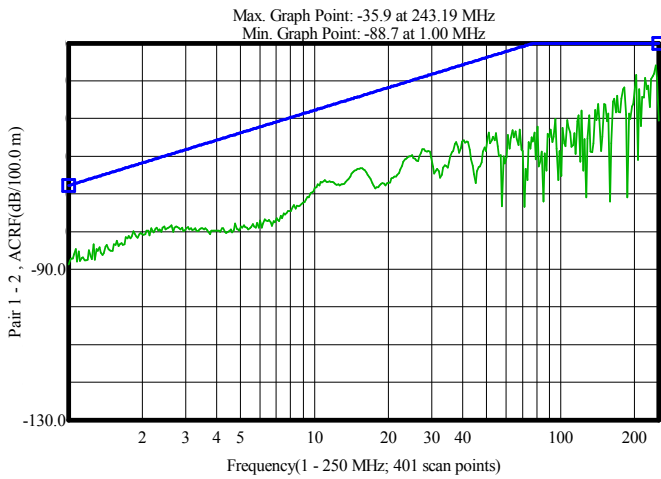
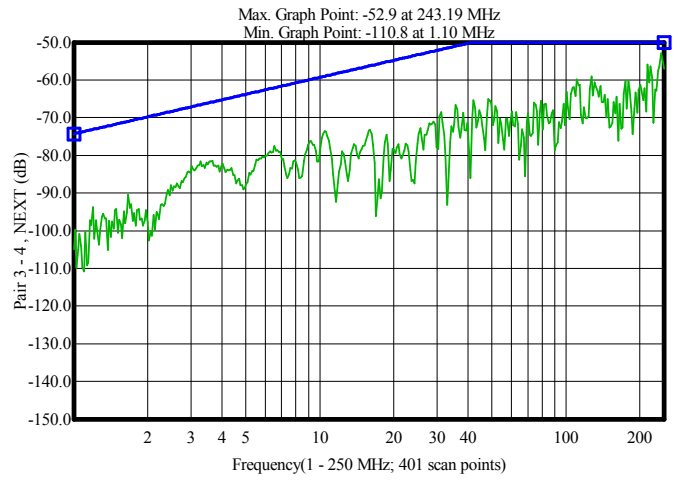
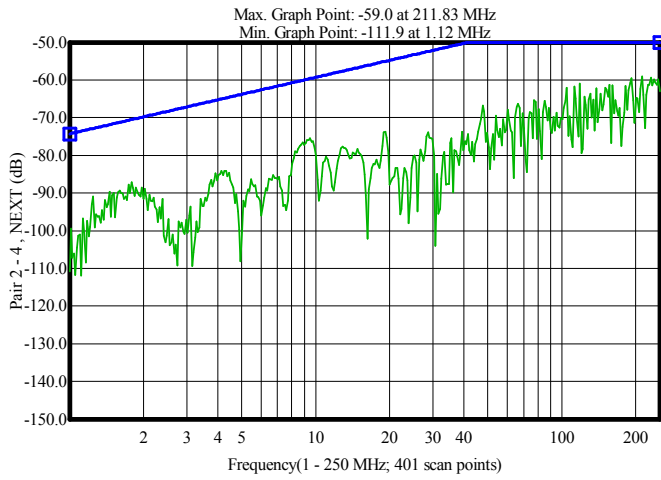
## Cat 6 Test Result Graphs



## Cat 6 Test Result Graphs

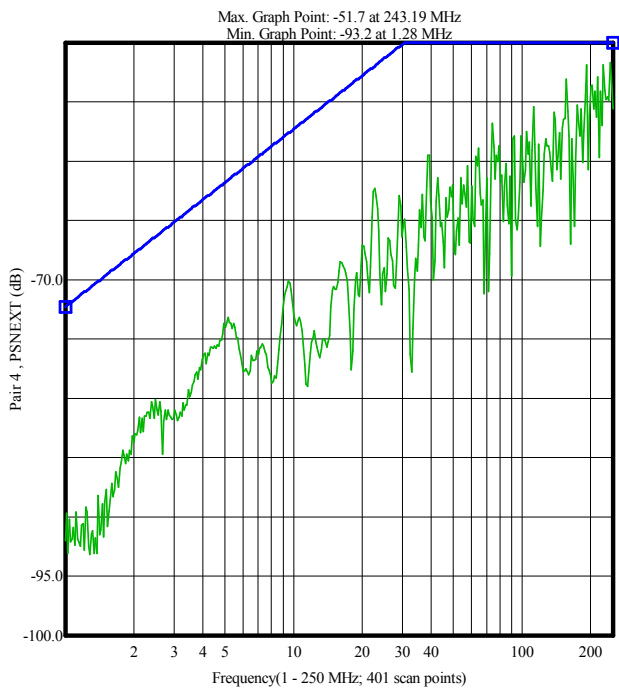
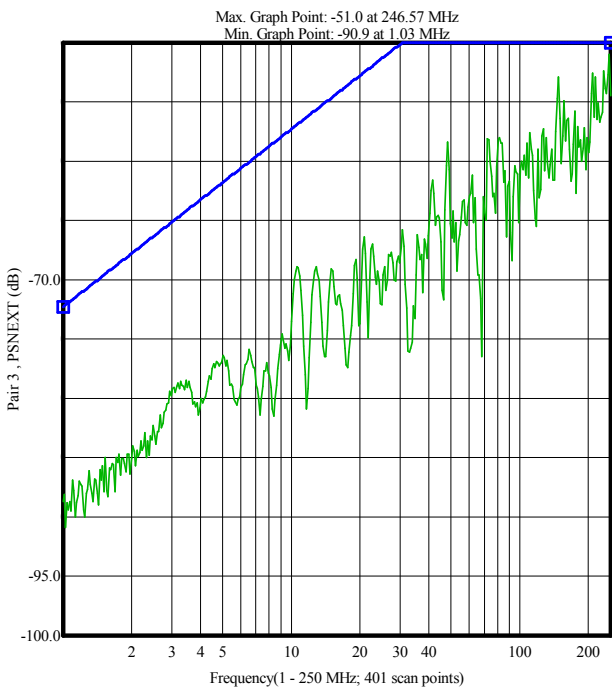
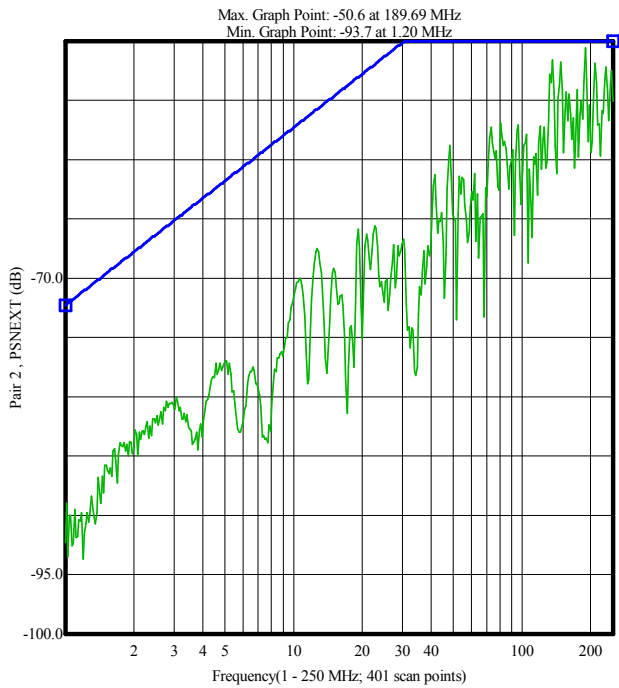
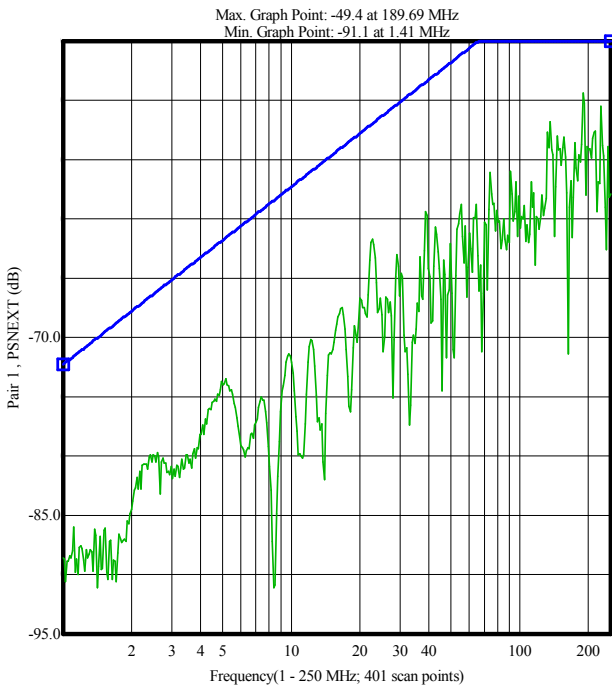
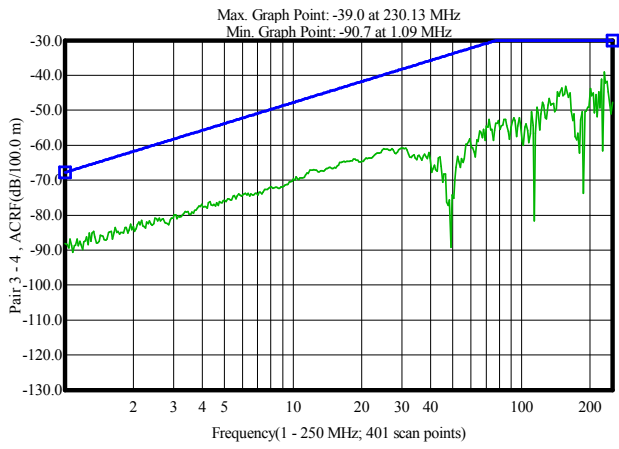
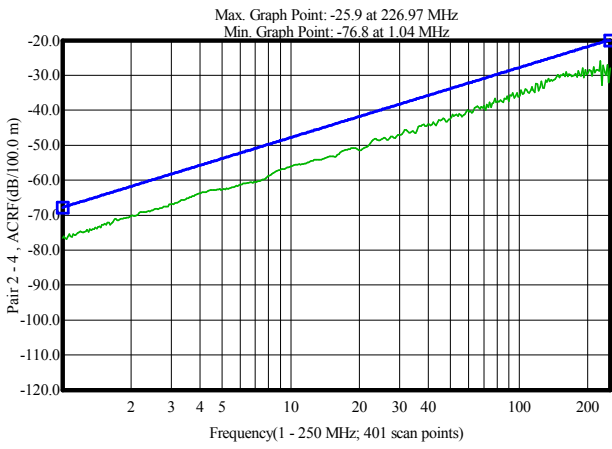


## Cat 6 Test Result Graphs

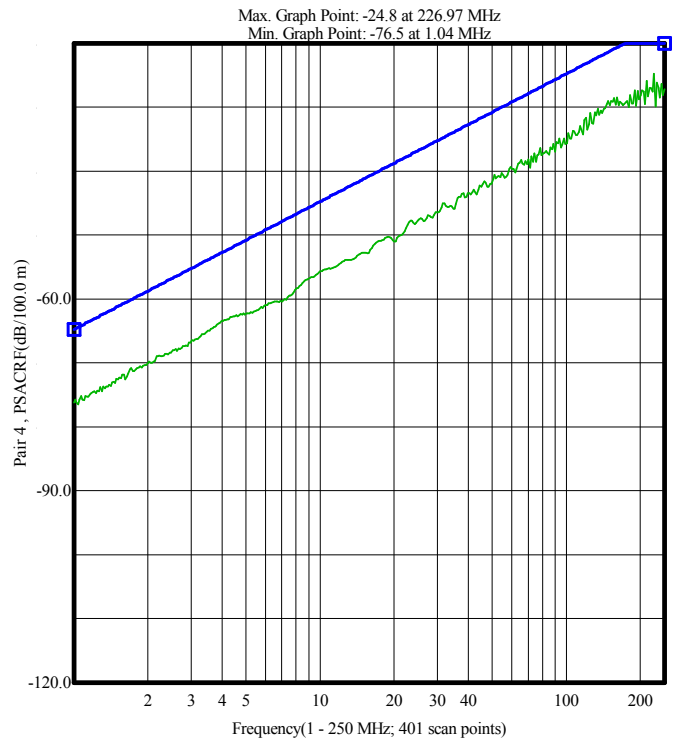
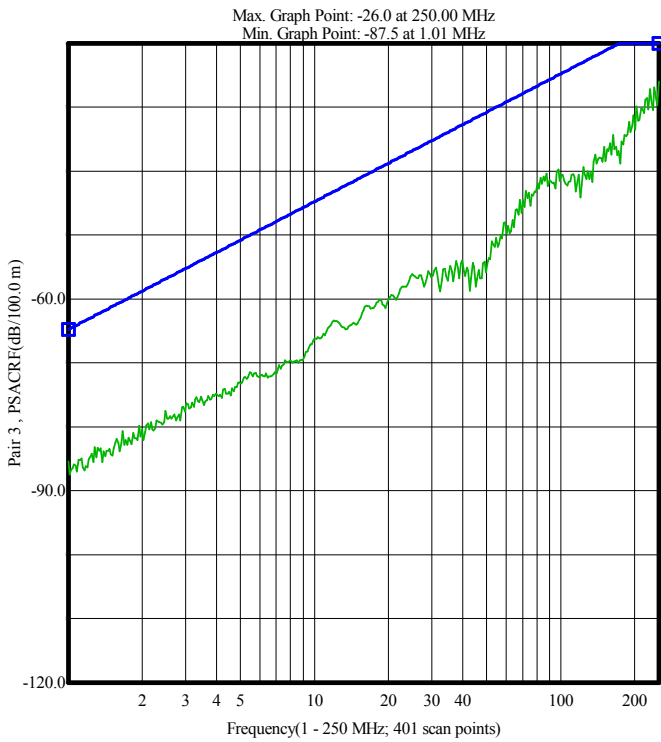
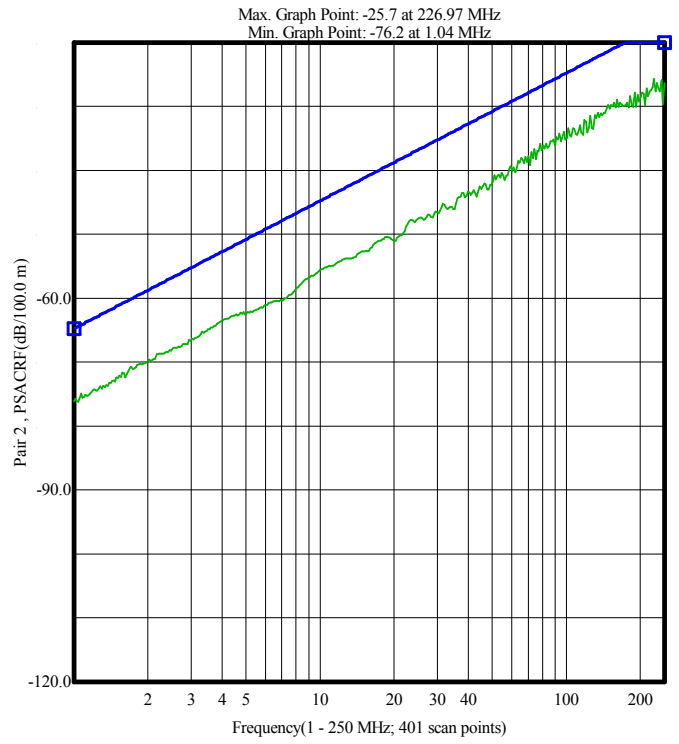
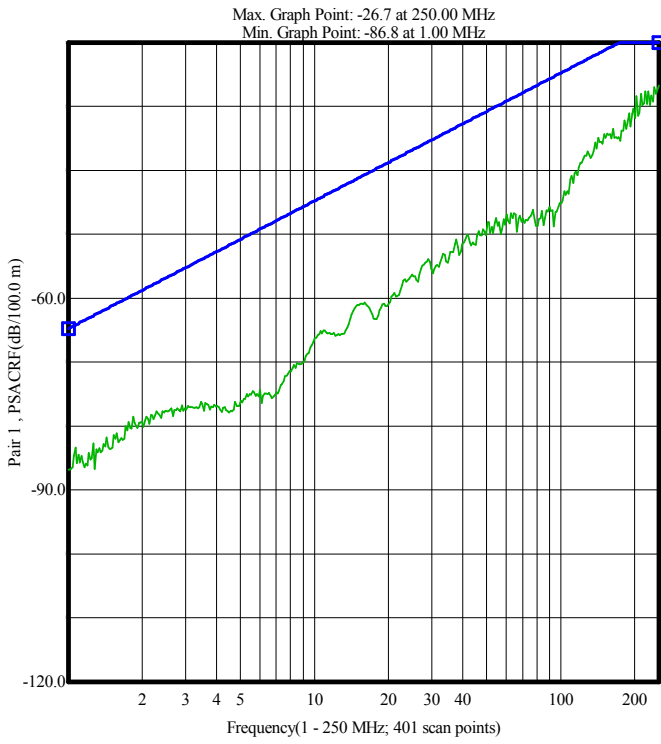




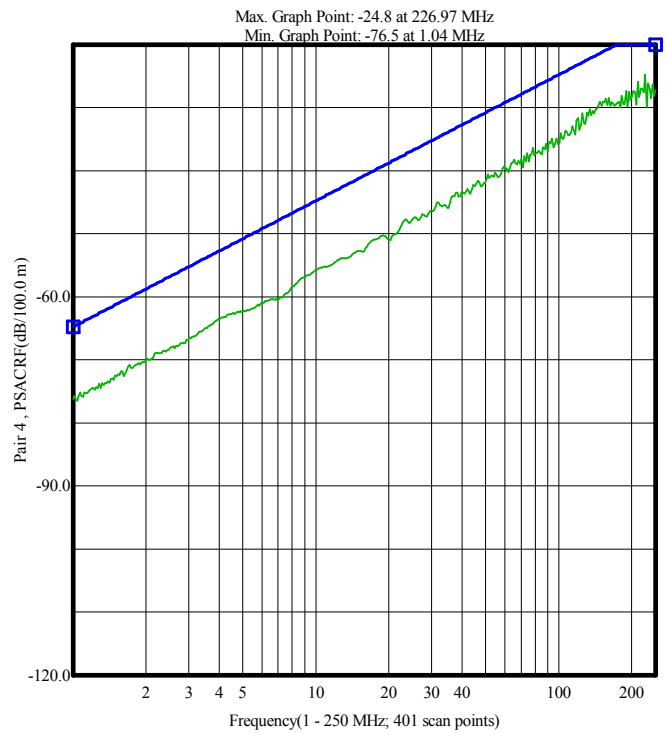
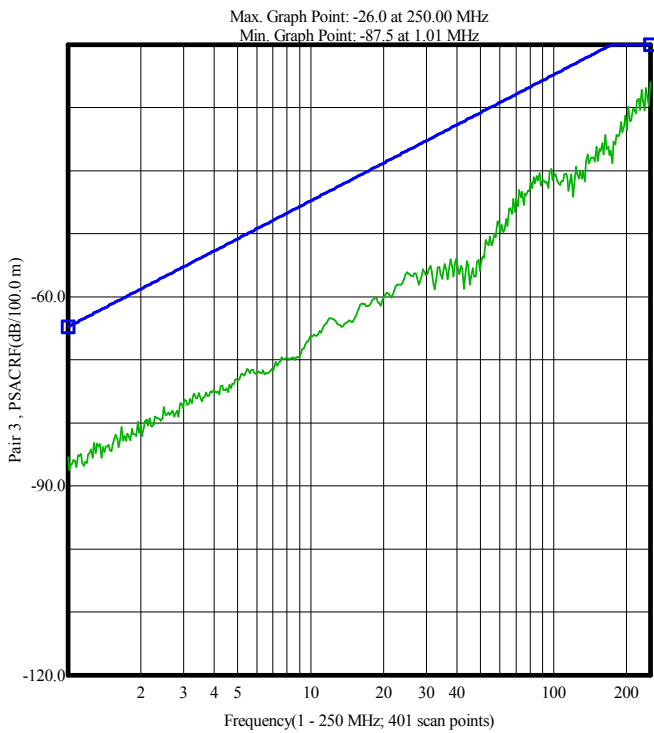
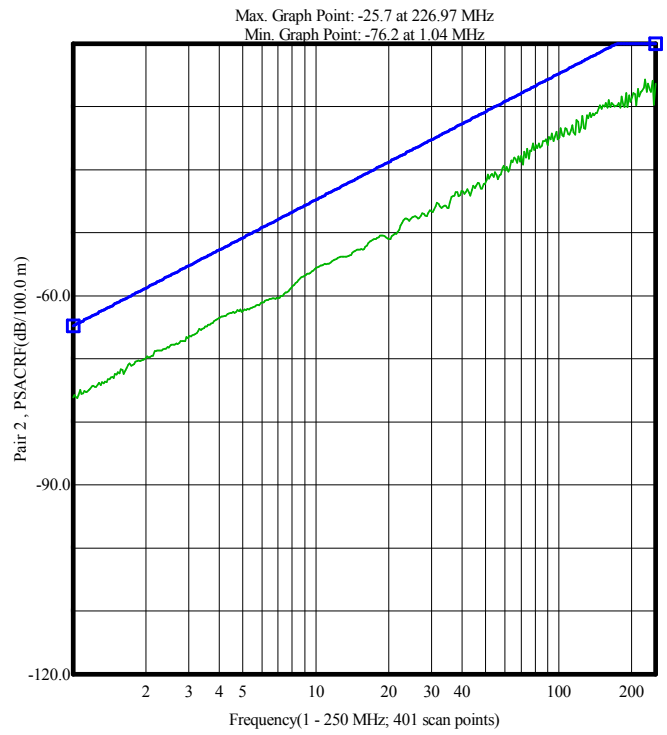
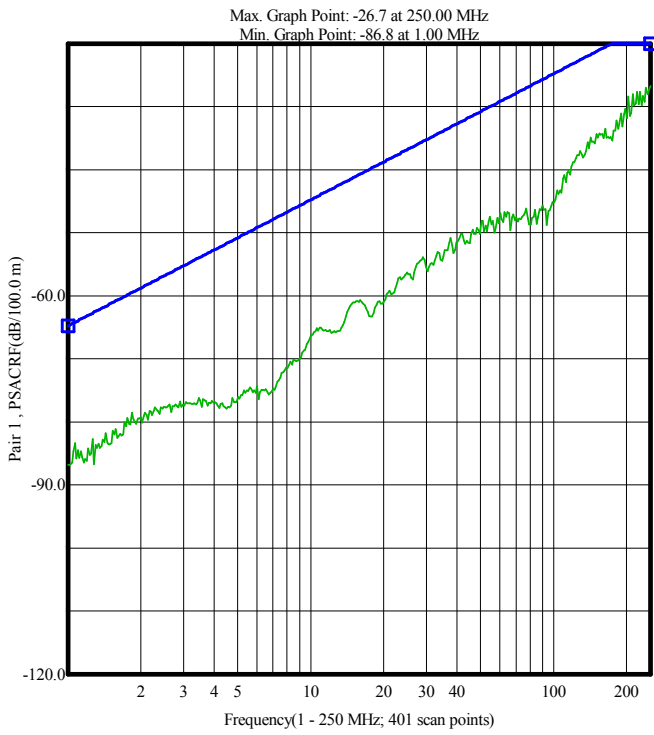
## Cat 6 Test Result Graphs



## Cat 6 Test Result Graphs



## Cat 6 Test Result Graphs



## Cat 6 Test Result Graphs

