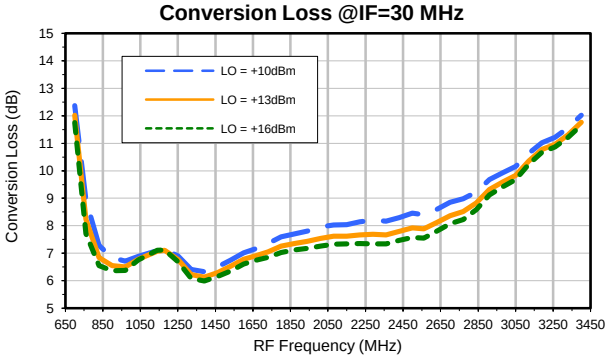
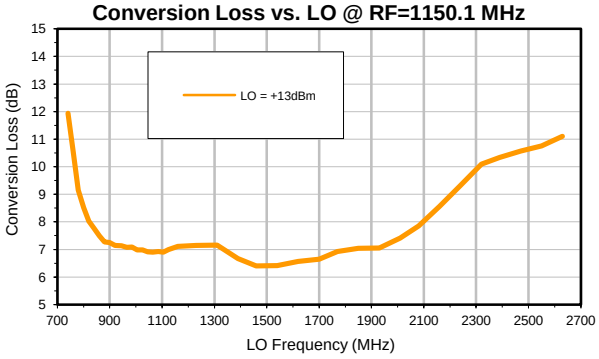
## *Typical Performance Curves*

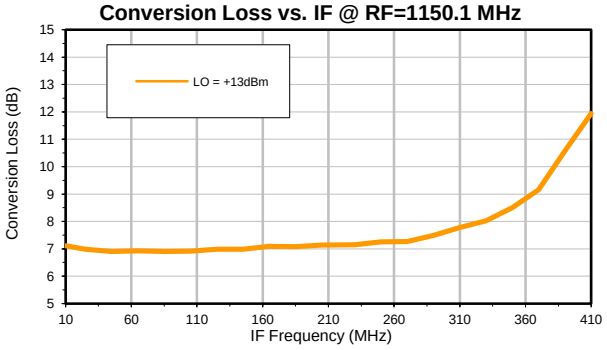
**Conversion Loss @IF=30 MHz**



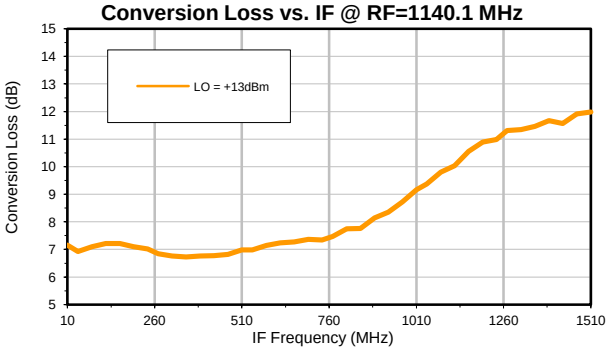

**Conversion Loss vs. LO @ RF=1150.1 MHz**



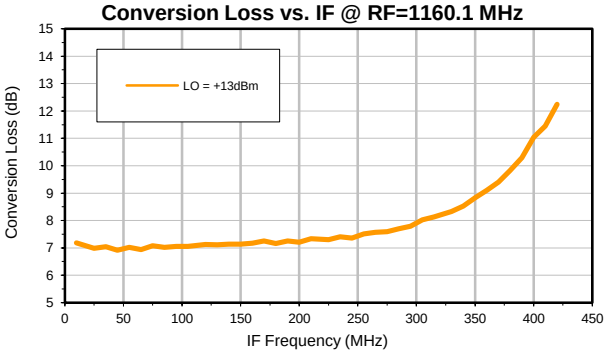

**Conversion Loss vs. IF @ RF=1150.1 MHz**



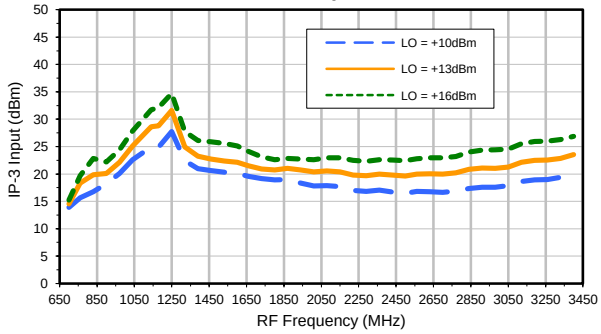

**Conversion Loss vs. IF @ RF=1140.1 MHz**



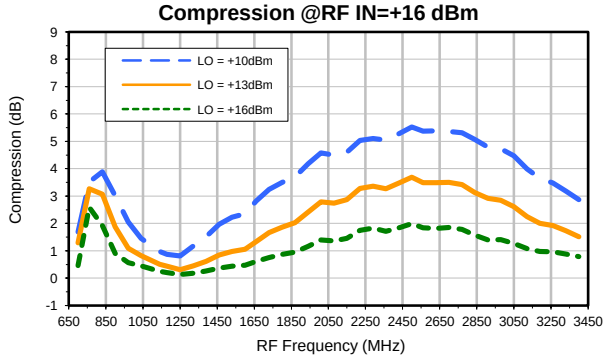

**Conversion Loss vs. IF @ RF=1160.1 MHz**




**IP-3 Input**

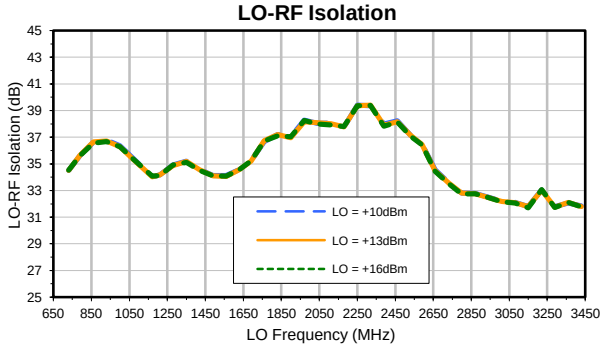



**Compression @RF IN=+16 dBm**

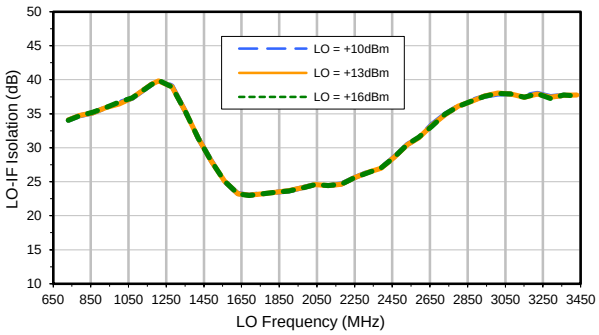


## *Typical Performance Curves*

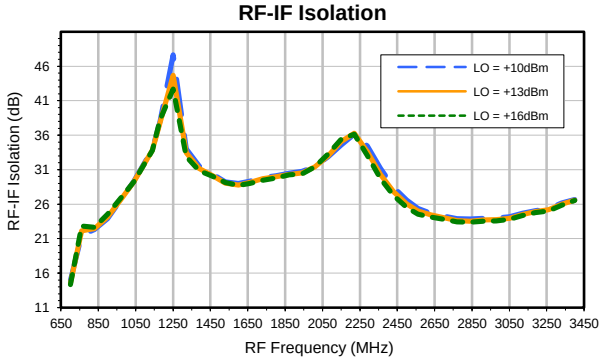
**LO-RF Isolation**



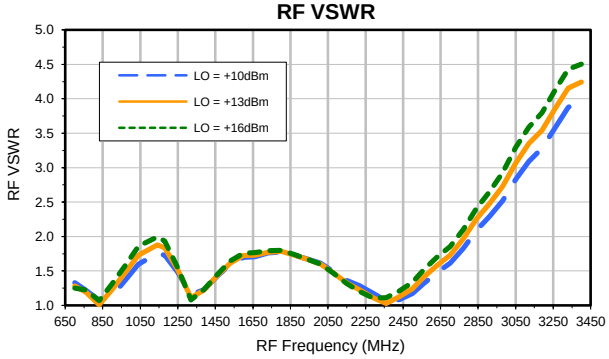

**LO-IF Isolation**



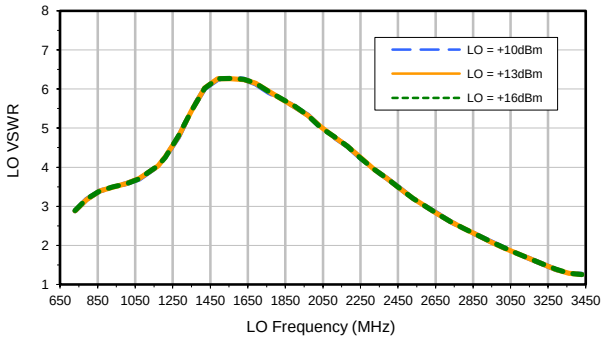

**RF-IF Isolation**



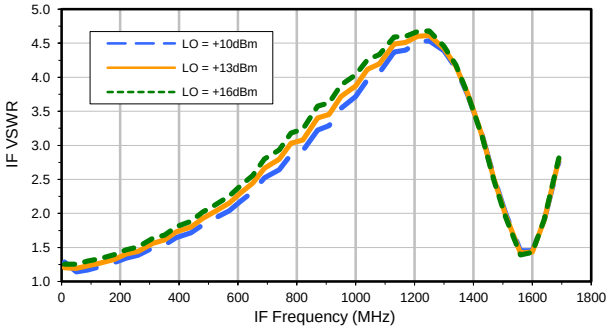

**RF VSWR**




**LO VSWR**




**IF VSWR**



*Harmonics Tables*

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | --- | --- | 22.6 | 5.7 | 27.2 | 33.1 | 39.4 | 47.6 | 41.8 | 64.4 | 42.6 | 44.5 |
| 1 | --- | 27.6 | --- | 32.5 | 18.2 | 40.4 | 44.2 | 48.1 | 54.0 | 44.7 | 56.0 | 61.8 |
| 2 | 96.1 | 48.0 | 55.7 | 45.7 | 44.5 | 54.5 | 64.6 | 64.9 | 75.3 | 78.0 | 72.0 | 70.2 |
| 3 | 118.7 | 90.0 | 79.0 | 74.7 | 62.7 | 70.7 | 69.5 | 88.8 | 82.8 | 88.2 | 91.1 | 89.7 |
| 4 | 119.2 | 106.4 | 115.2 | 113.1 | 98.9 | 83.5 | 91.8 | 90.5 | 106.4 | 98.8 | 103.9 | 115.1 |
| 5 | 108.4 | 114.3 | 115.8 | 115.8 | 107.0 | 113.1 | 104.7 | 106.7 | 114.7 | 116.6 | 115.7 | 115.5 |
| 6 | 120.0 | 112.9 | 113.2 | 116.2 | 111.7 | 113.7 | 104.1 | 112.5 | 103.2 | 116.3 | 116.2 | 114.1 |
| 7 | 122.4 | 115.4 | 114.6 | 115.2 | 114.9 | 113.0 | 114.7 | 99.5 | 101.3 | 99.5 | 112.1 | 114.7 |
| 8 | 117.6 | 116.2 | 115.8 | 115.7 | 116.3 | 115.5 | 114.9 | 114.2 | 106.6 | 107.8 | 109.9 | 114.1 |
| 9 | 120.6 | 115.7 | 115.5 | 114.1 | 115.9 | 113.5 | 114.7 | 113.7 | 114.6 | 102.9 | 113.1 | 101.0 |
| 10 | 121.1 | 115.6 | 114.6 | 115.0 | 114.3 | 115.4 | 115.4 | 115.6 | 113.5 | 115.1 | 111.0 | 113.7 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**LO HARMONICS ORDER**

**Test conditions:** **RF IN: 1150 MHz; 0 dBm.**
**LO IN: 1180 MHz; +13.00 dBm**
**IF OUT: 30 MHz; -6.36 dBm**

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | --- | --- | 22.1 | 15.8 | 34.5 | 43.5 | 48.4 | 60.2 | 53.5 | 55.4 | 52.3 | 57.0 |
| 1 | --- | 27.0 | --- | 30.7 | 16.8 | 38.9 | 43.6 | 46.5 | 53.1 | 47.4 | 56.0 | 60.1 |
| 2 | 85.9 | 34.8 | 45.1 | 34.1 | 32.6 | 44.0 | 55.8 | 56.9 | 62.3 | 70.5 | 63.1 | 67.4 |
| 3 | 93.1 | 70.6 | 61.1 | 45.8 | 37.4 | 49.1 | 45.3 | 67.7 | 62.2 | 70.4 | 69.3 | 73.3 |
| 4 | 82.2 | 82.9 | 71.0 | 64.8 | 64.9 | 49.5 | 57.3 | 57.4 | 86.4 | 72.5 | 76.0 | 89.5 |
| 5 | 68.6 | 100.2 | 90.2 | 81.1 | 75.3 | 65.2 | 66.1 | 64.7 | 69.3 | 82.1 | 79.0 | 84.5 |
| 6 | 73.1 | 94.1 | 95.3 | 96.3 | 84.8 | 78.1 | 78.0 | 73.4 | 79.6 | 73.7 | 89.4 | 90.7 |
| 7 | 79.8 | 106.8 | 97.0 | 96.6 | 96.7 | 99.6 | 93.1 | 80.8 | 76.2 | 85.7 | 80.9 | 95.6 |
| 8 | 93.5 | 108.4 | 107.0 | 99.6 | 102.1 | 115.7 | 102.0 | 92.4 | 88.1 | 83.9 | 89.1 | 91.2 |
| 9 | 110.8 | 108.5 | 112.0 | 112.7 | 106.7 | 105.0 | 107.9 | 101.7 | 97.1 | 102.6 | 91.0 | 102.0 |
| 10 | 96.2 | 112.9 | 114.7 | 110.3 | 120.6 | 111.9 | 112.3 | 109.8 | 105.3 | 102.6 | 102.1 | 104.3 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

**LO HARMONICS ORDER**

**Test conditions:** **RF IN: 1150 MHz; +10 dBm.**
**LO IN: 1180 MHz; +13.00 dBm**
**IF OUT: 30 MHz; 4.01 dBm**

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT
2. + entry denotes harmonics are in (dBc) above IF OUTPUT
3. RF Cal represents the Harmonics level of the RF Input Signal to the mixer