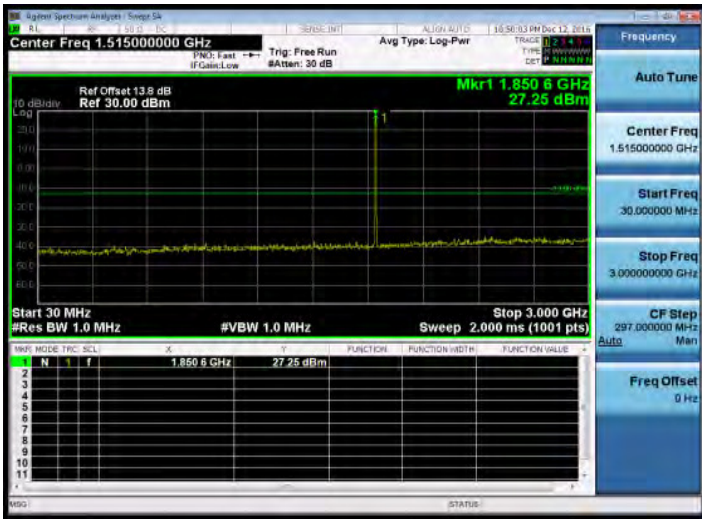
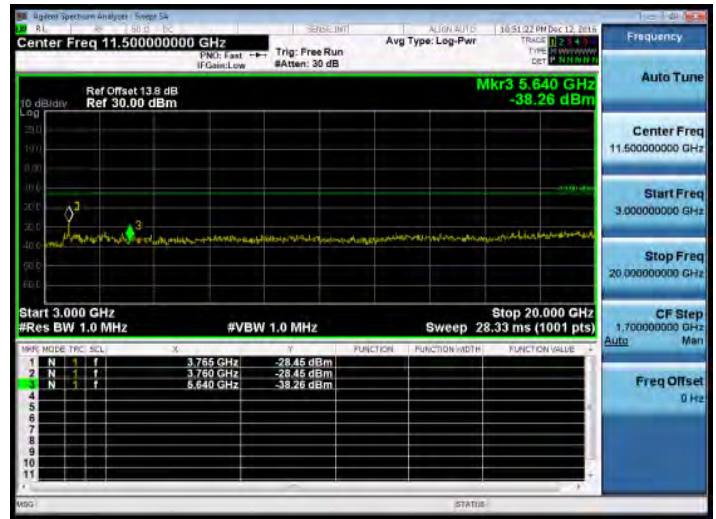


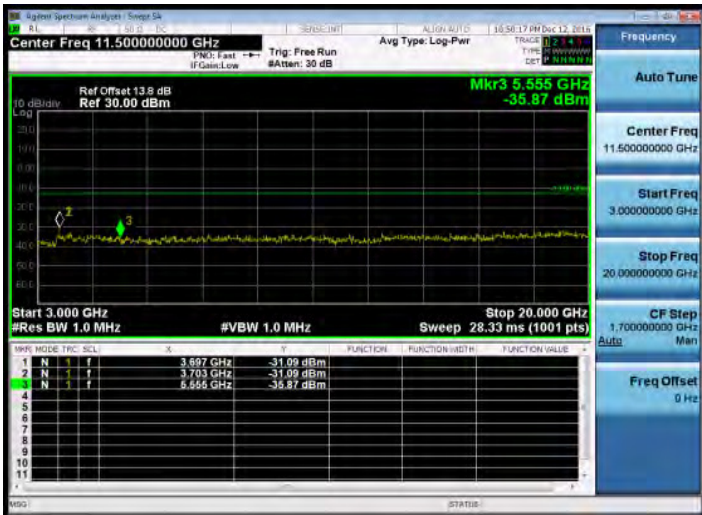
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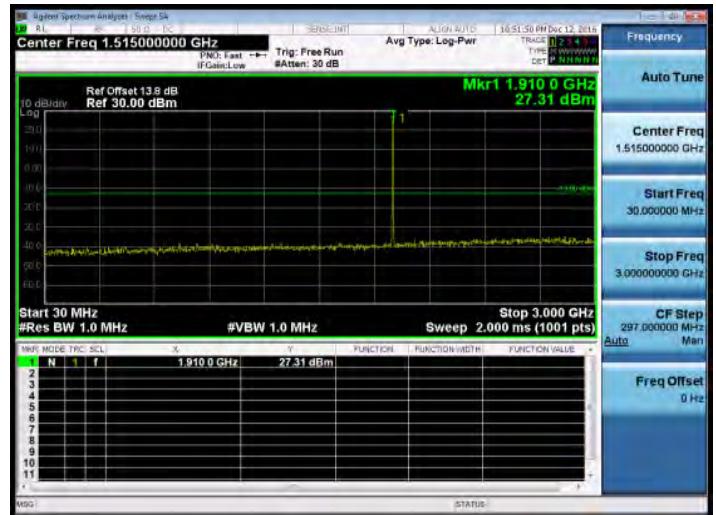
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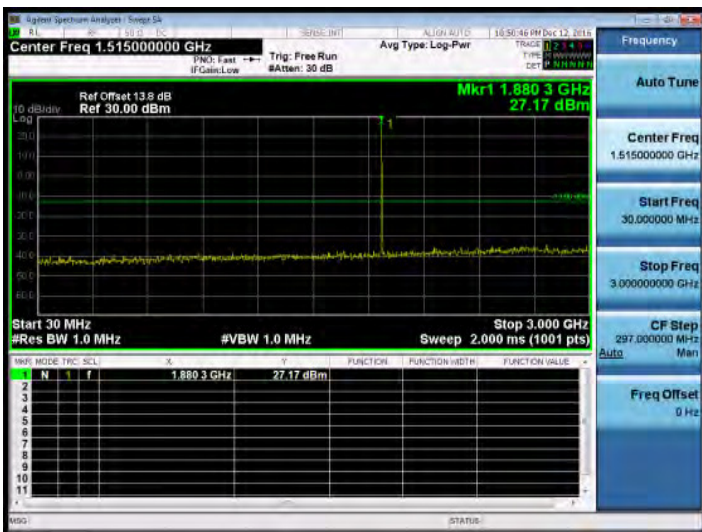
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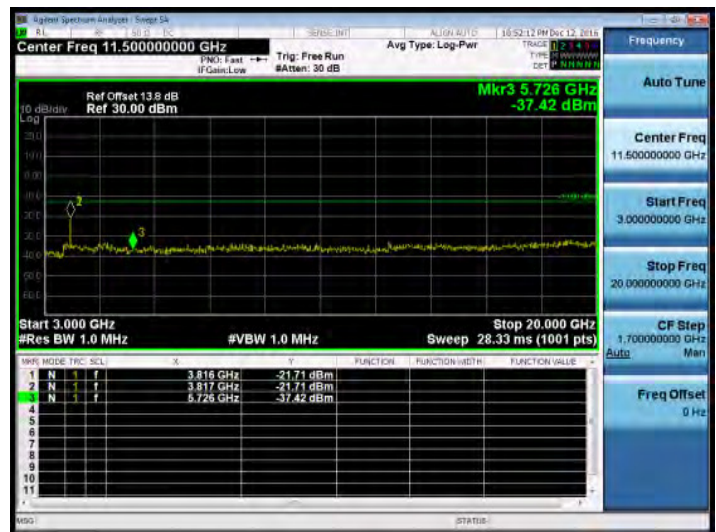
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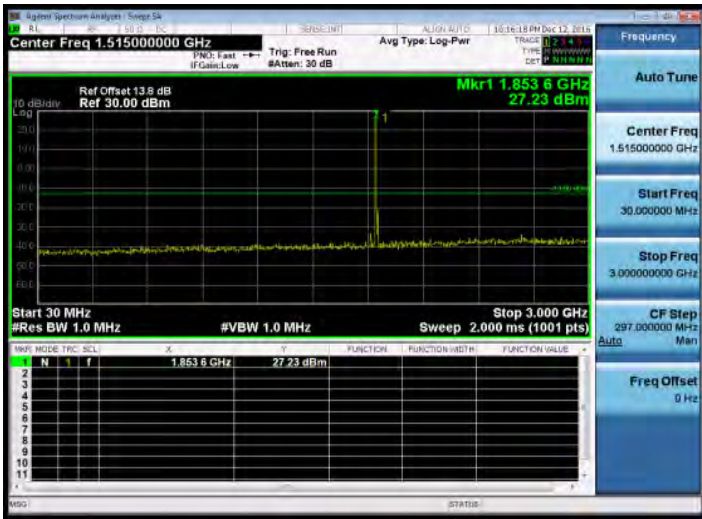
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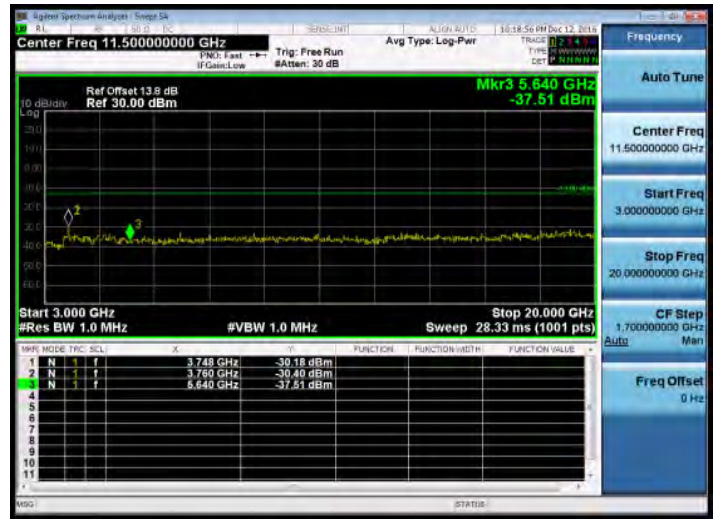
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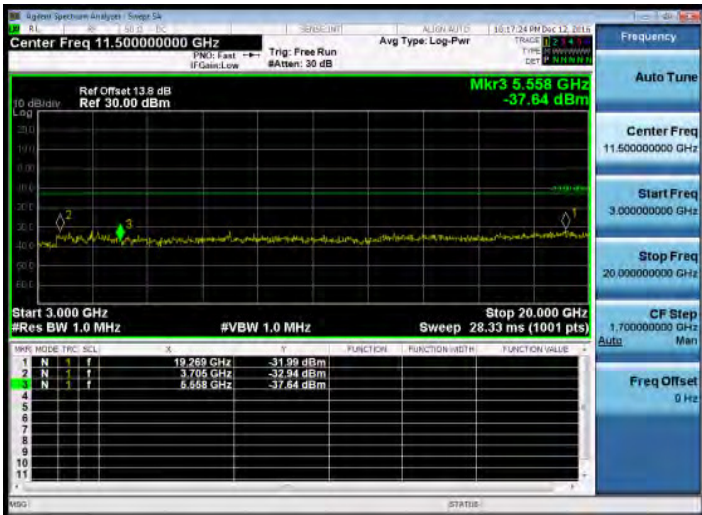
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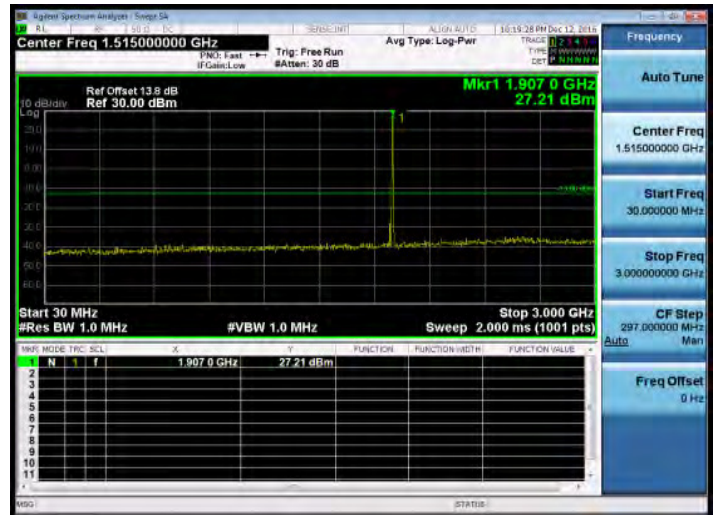
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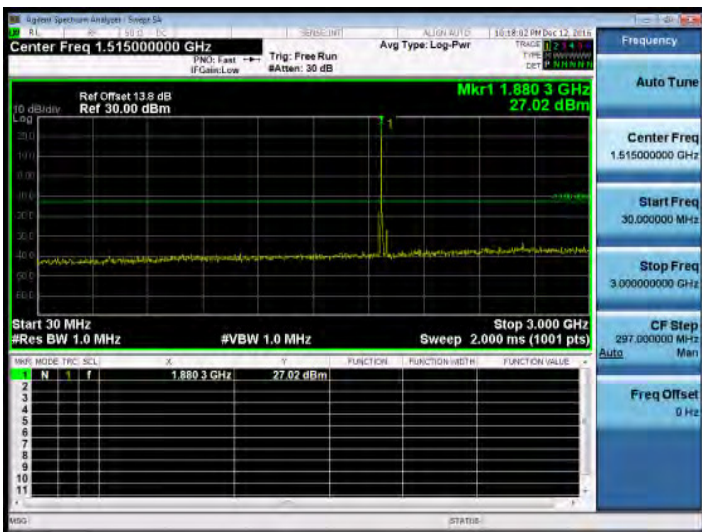
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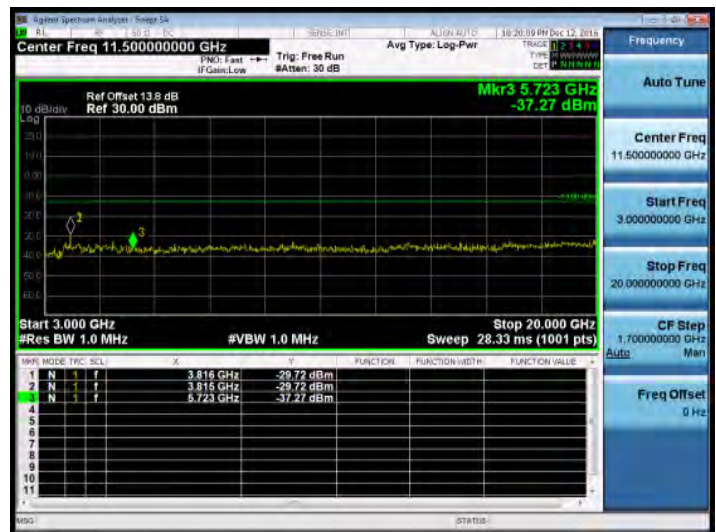
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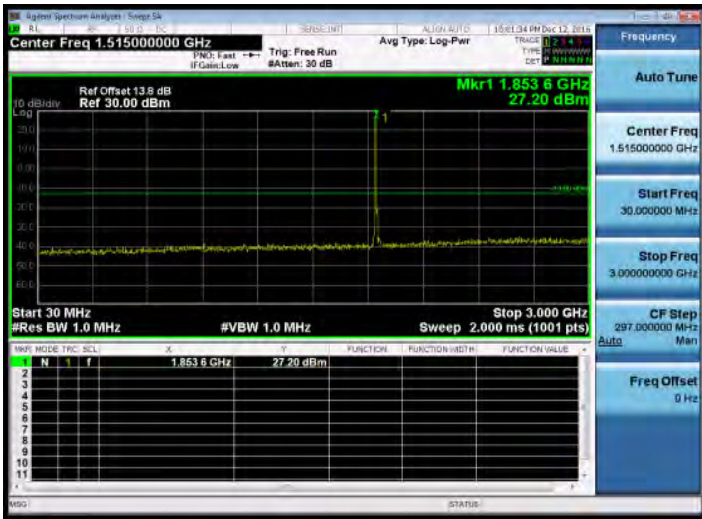
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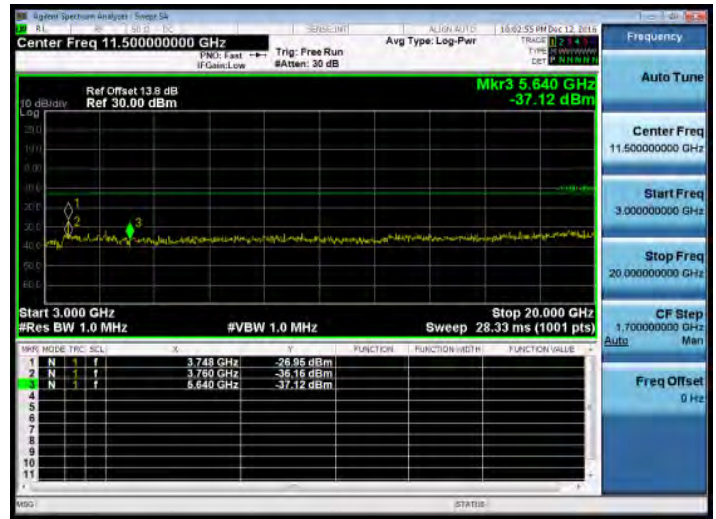
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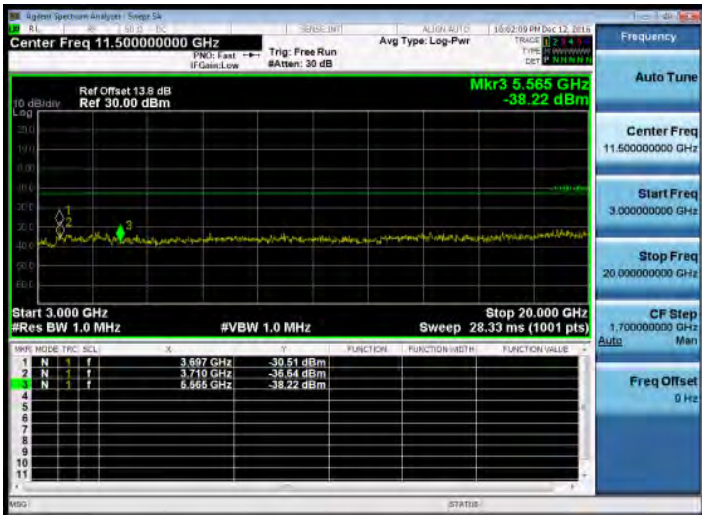
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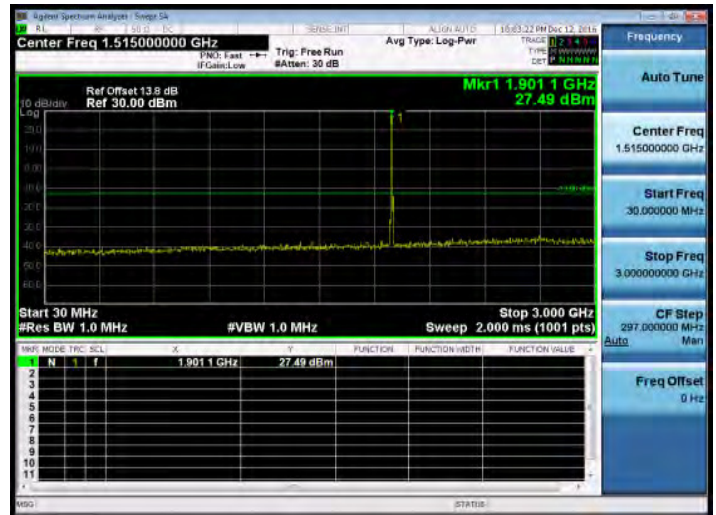
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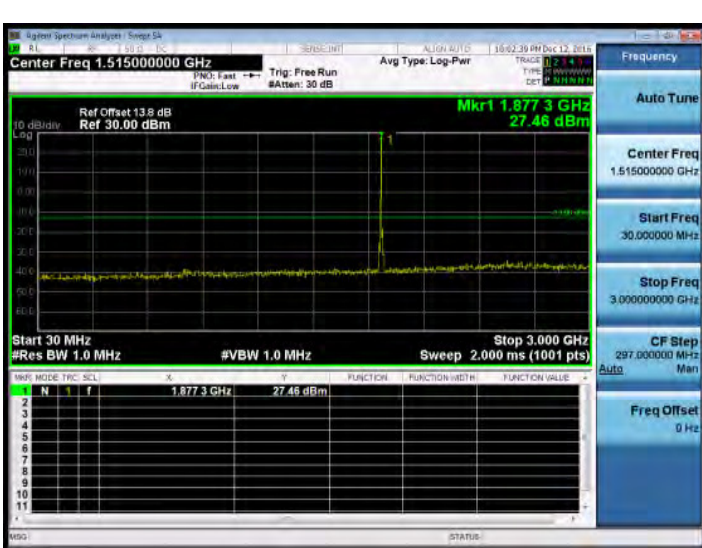
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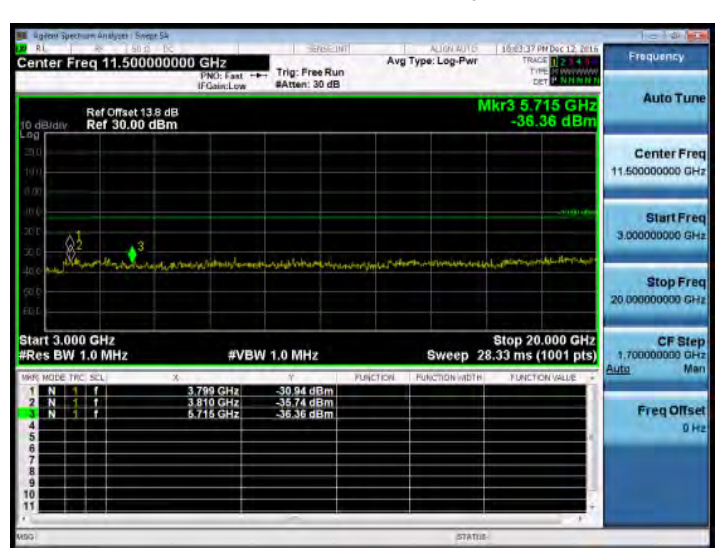
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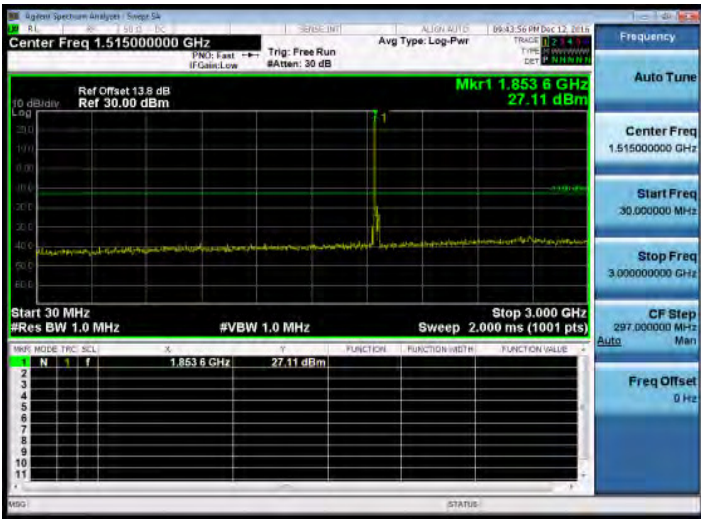
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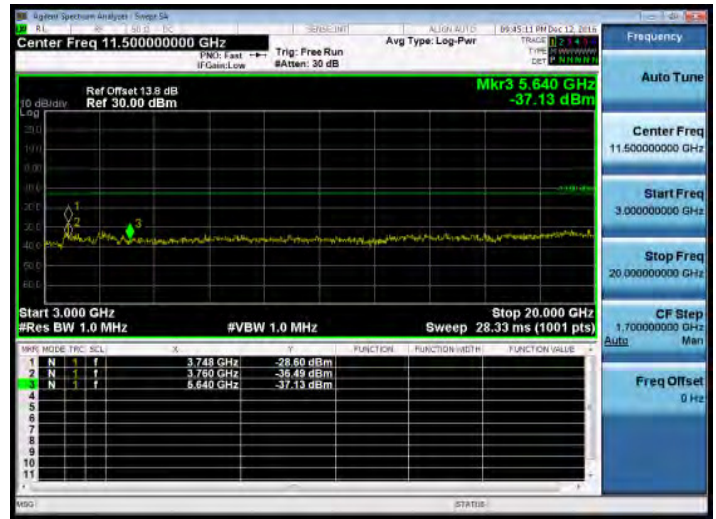
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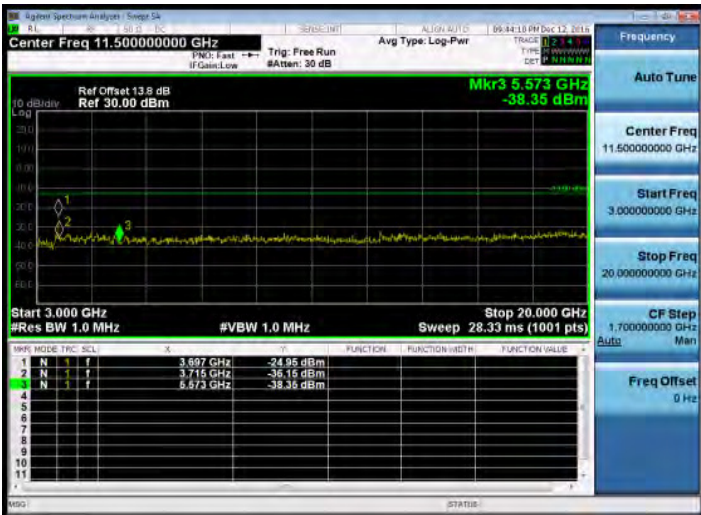
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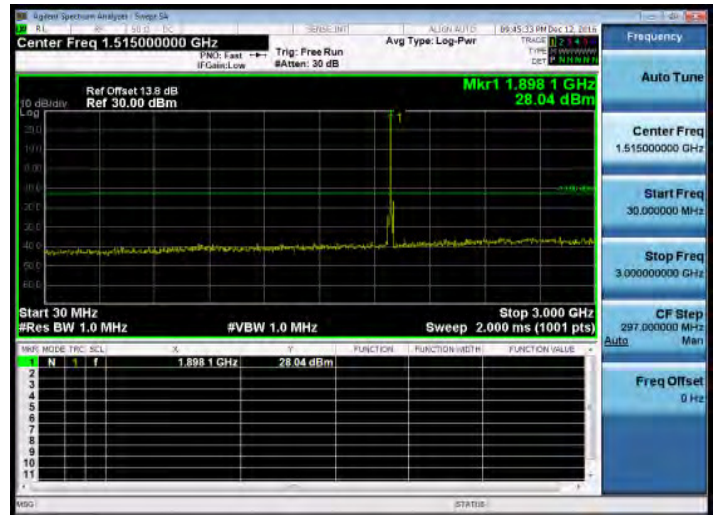
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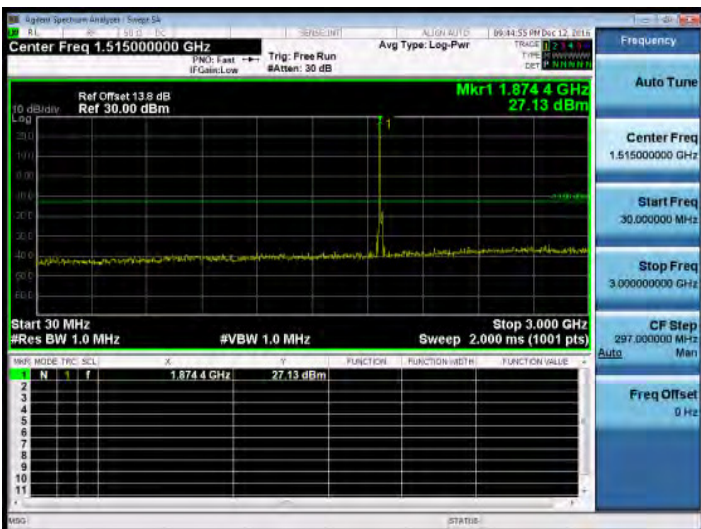
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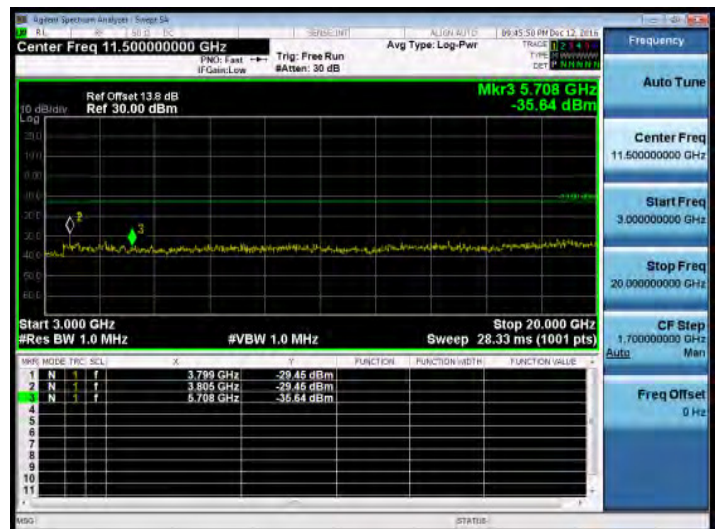
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30MHz~3GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5



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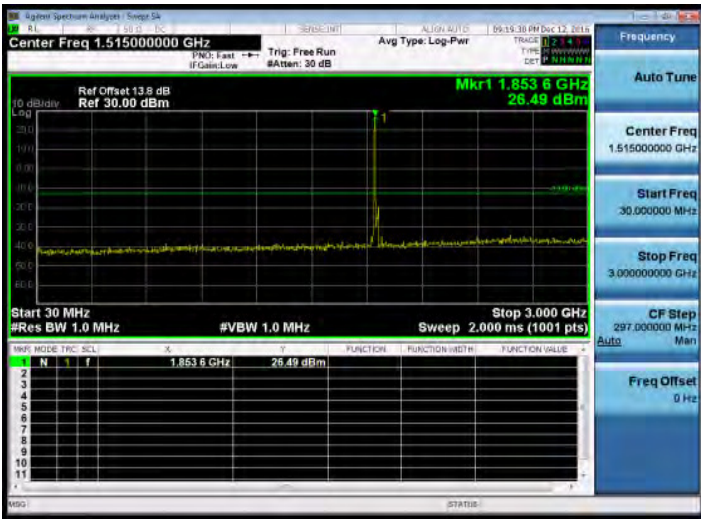
t (886-2) 2299-3279

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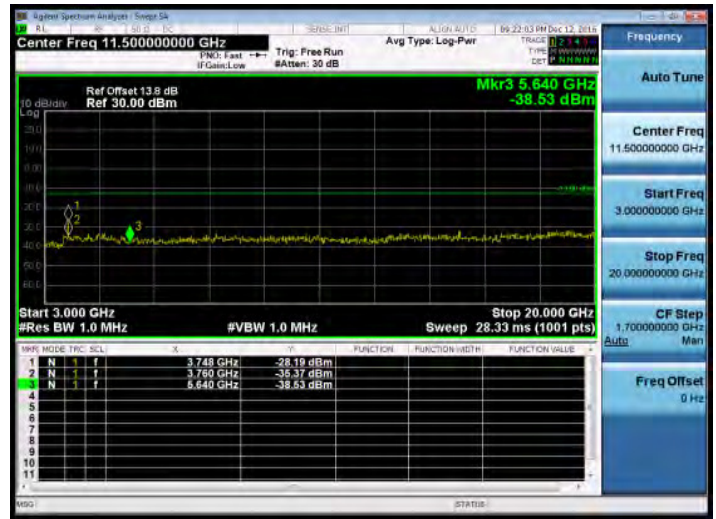
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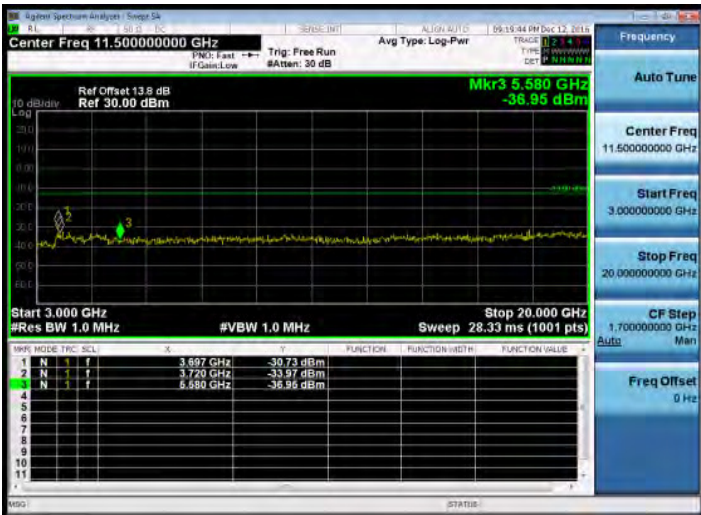
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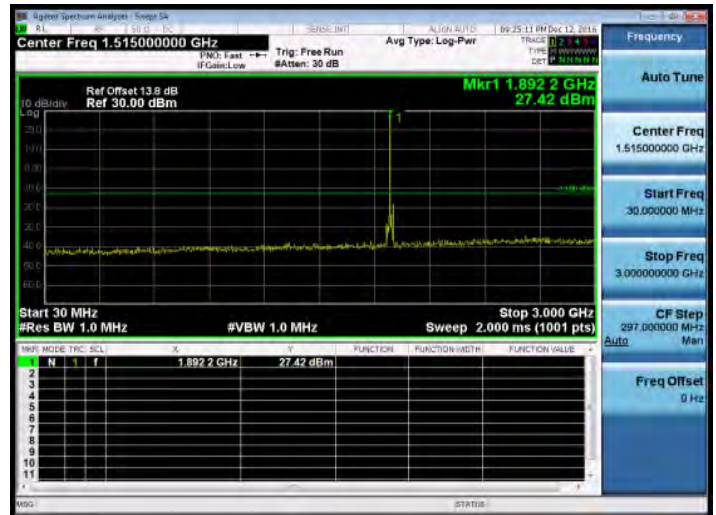
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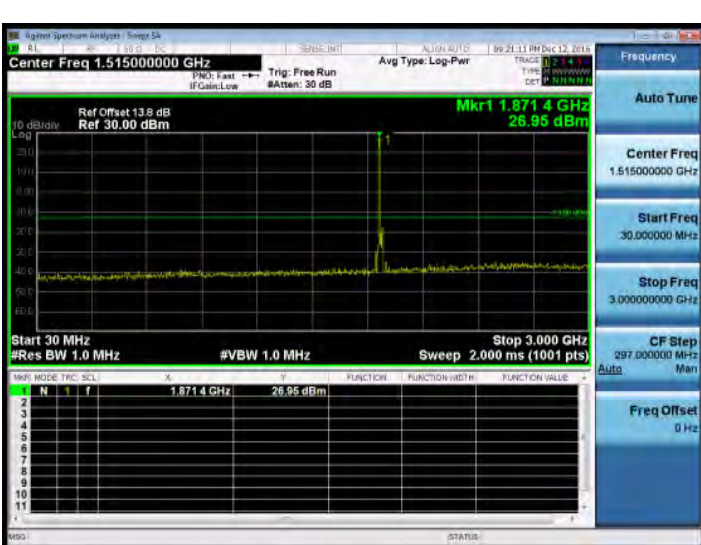
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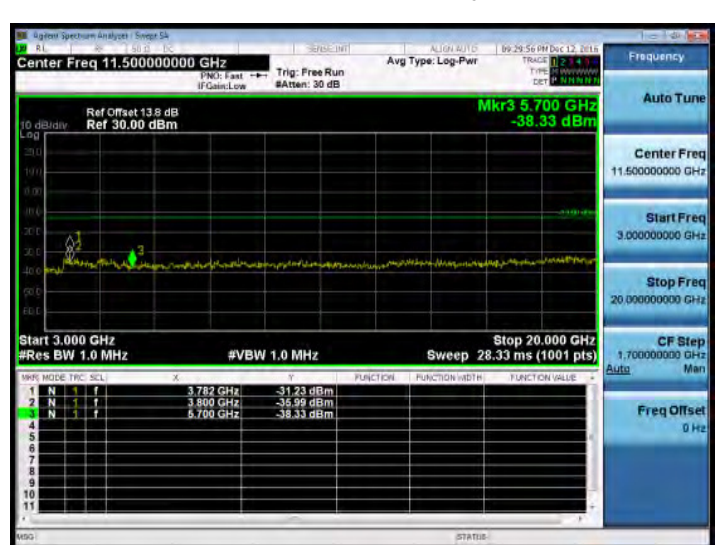
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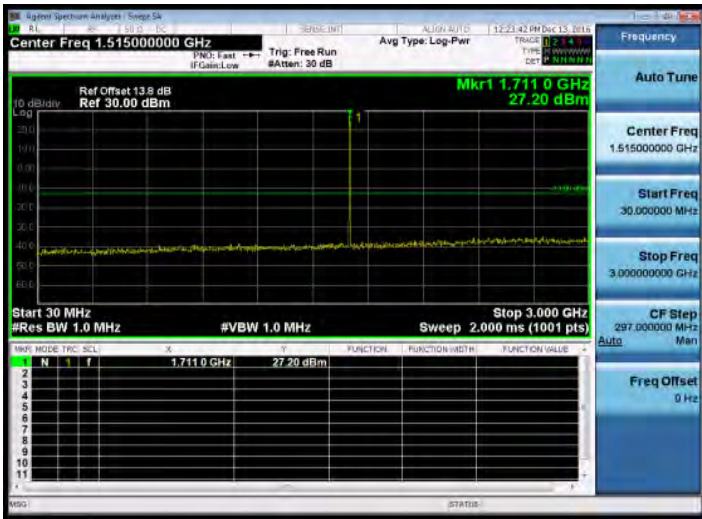
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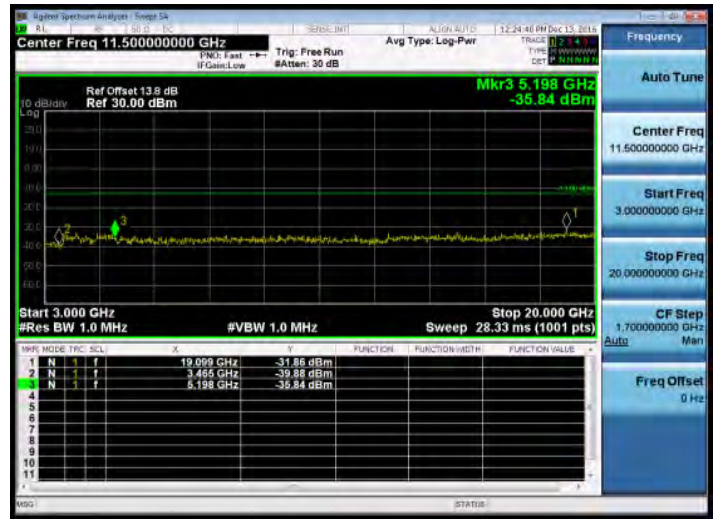
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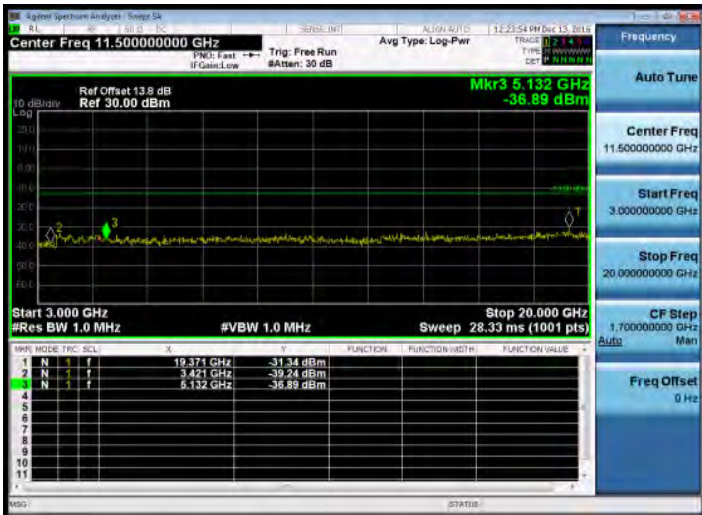
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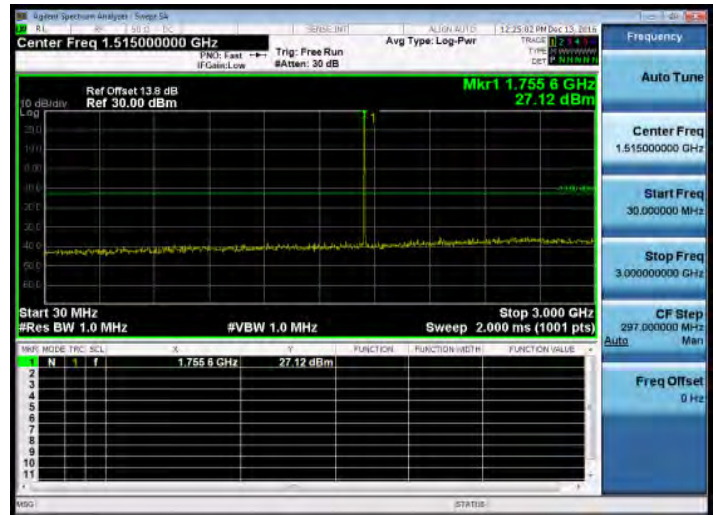
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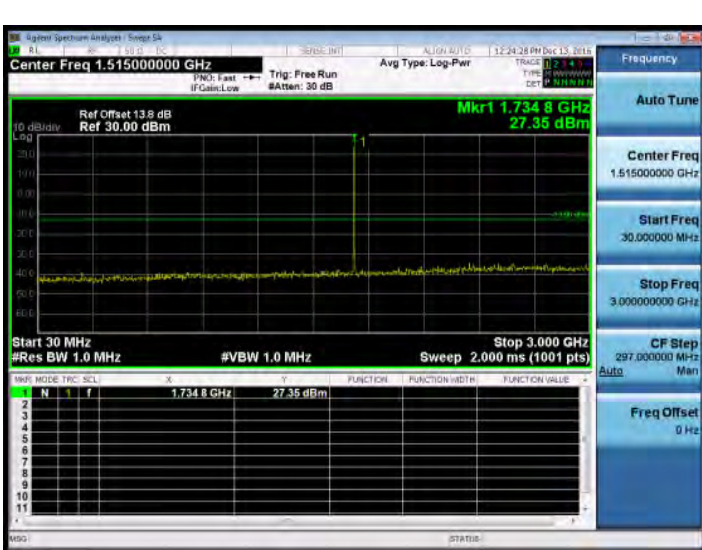
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30MHz-3GHz_Band4_1.4MHz_QPSK_1_0_HighCH20393-1754.3



30MHz-3GHz_Band4_1.4MHz_QPSK_1_0_MidCH20175-1732.5



3GHz-10GHz_Band4_1.4MHz_QPSK_1_0_HighCH20393-1754.3



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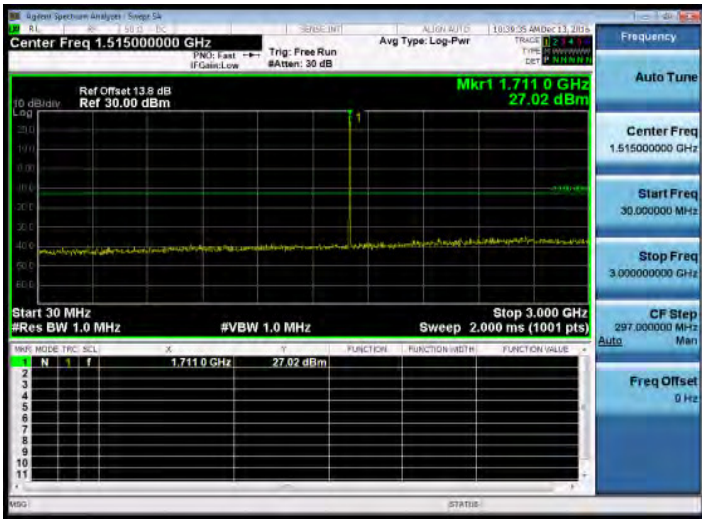
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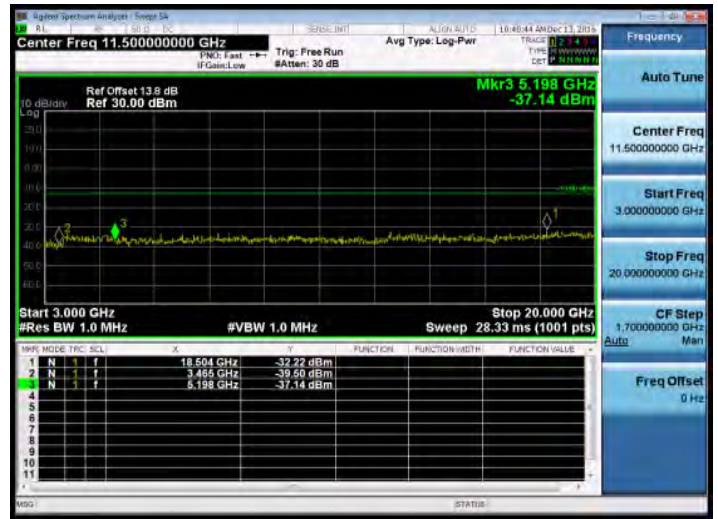
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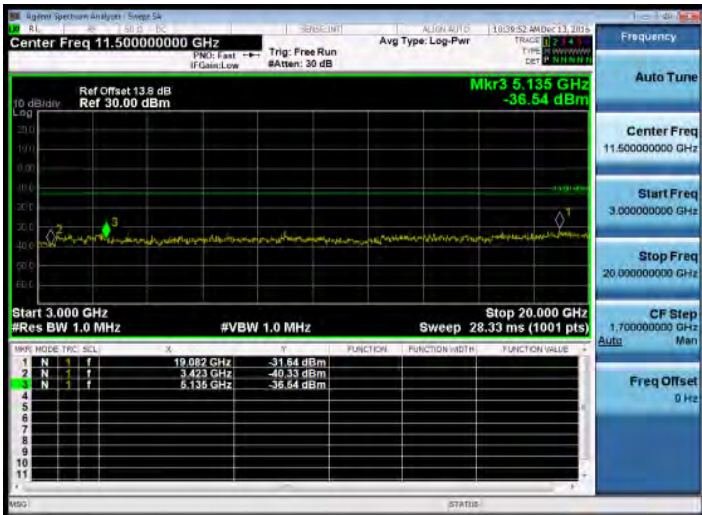
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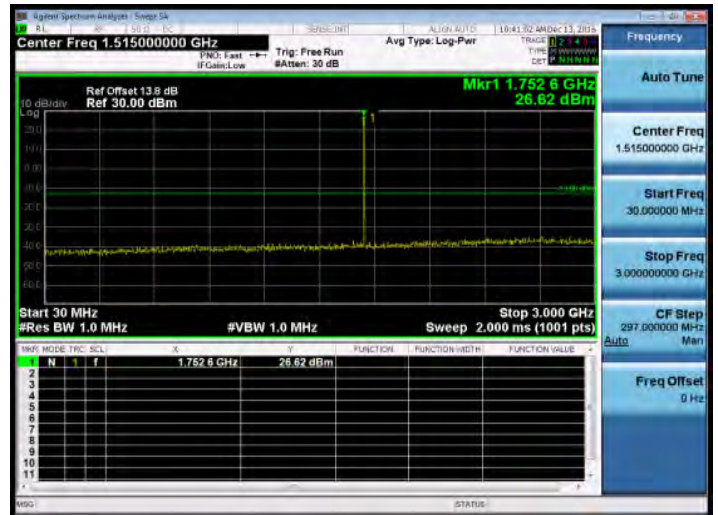
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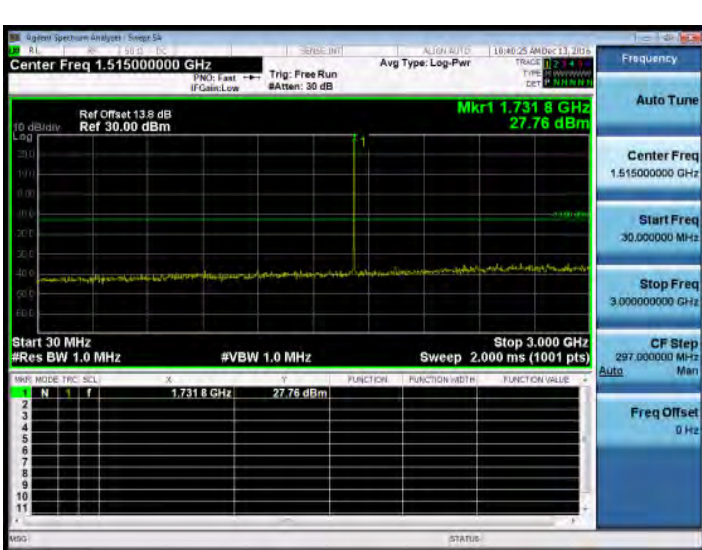
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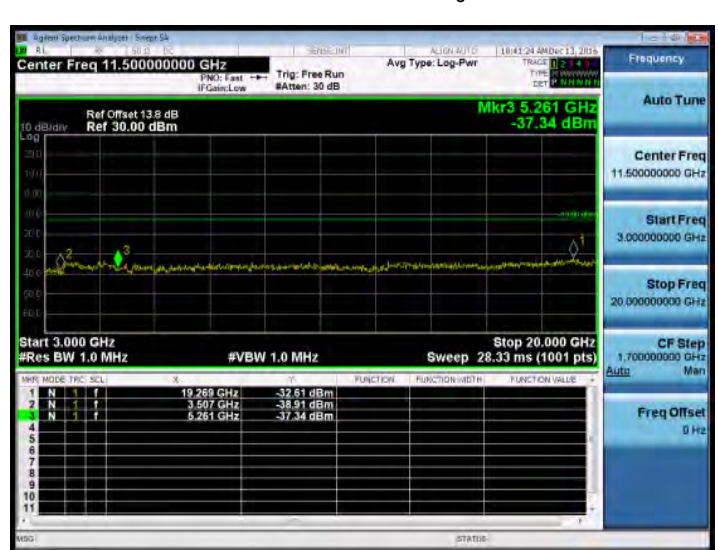
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30MHz~3GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5



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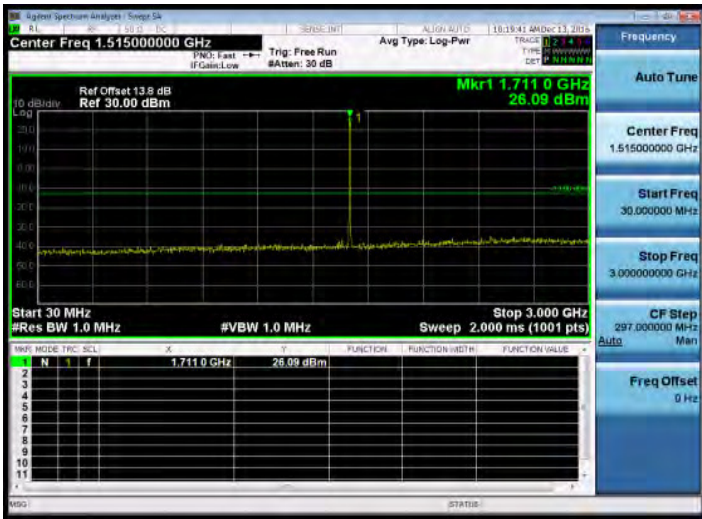
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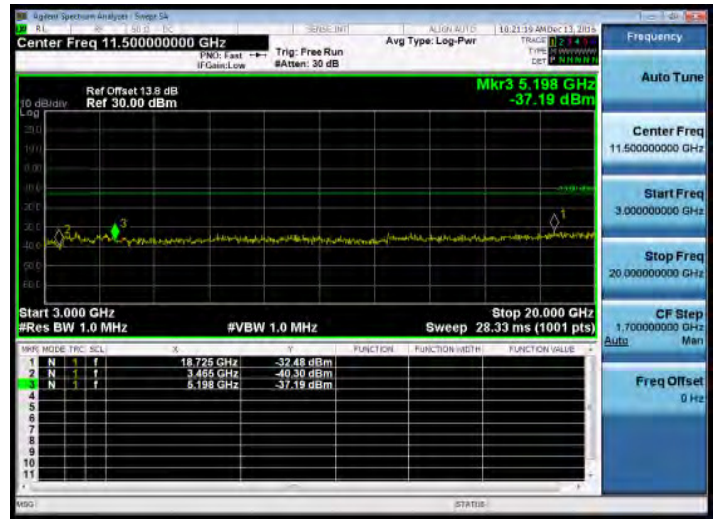
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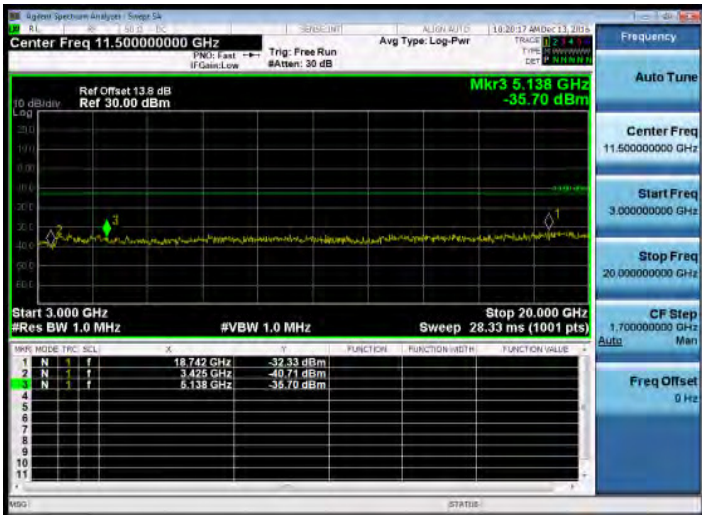
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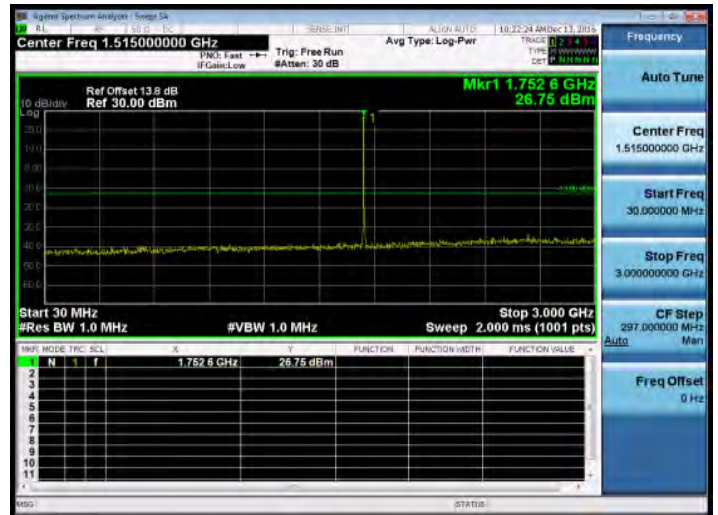
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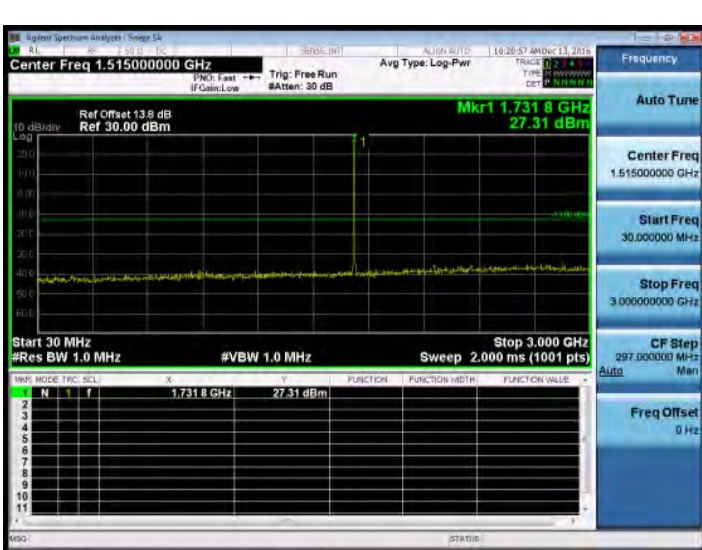
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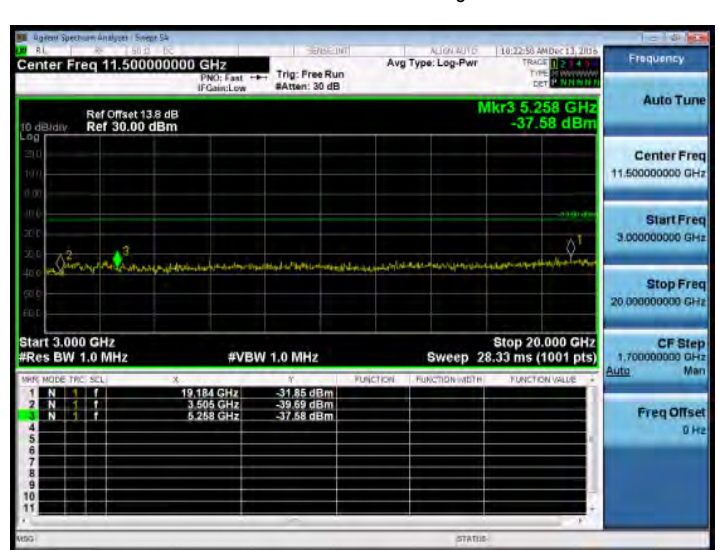
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30MHz~3GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5



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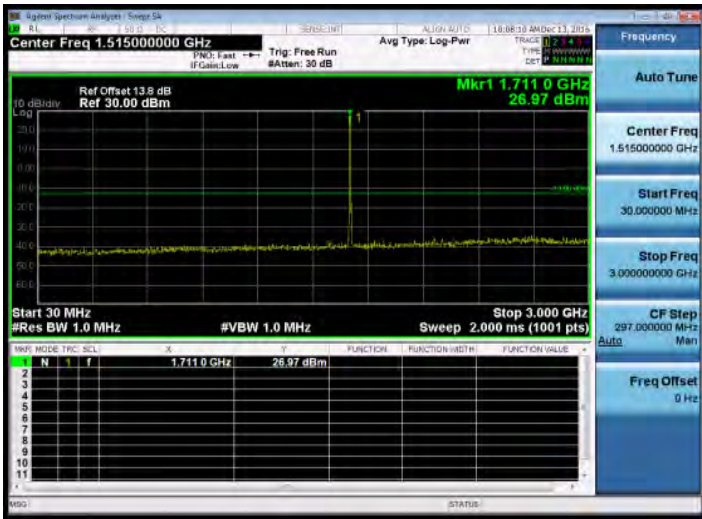
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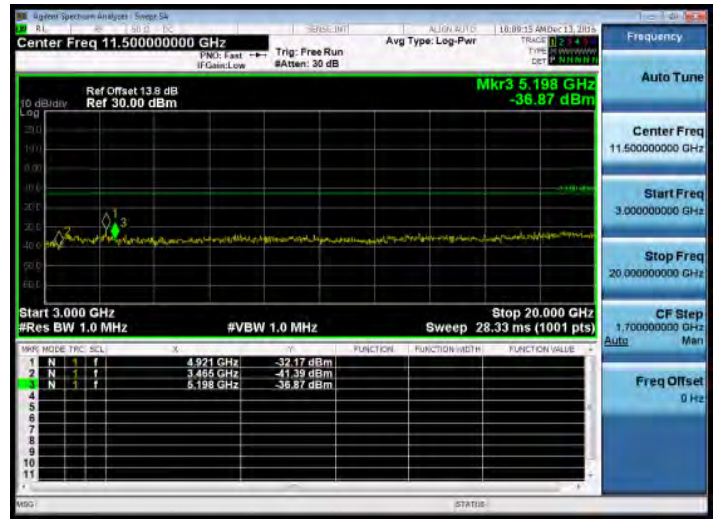
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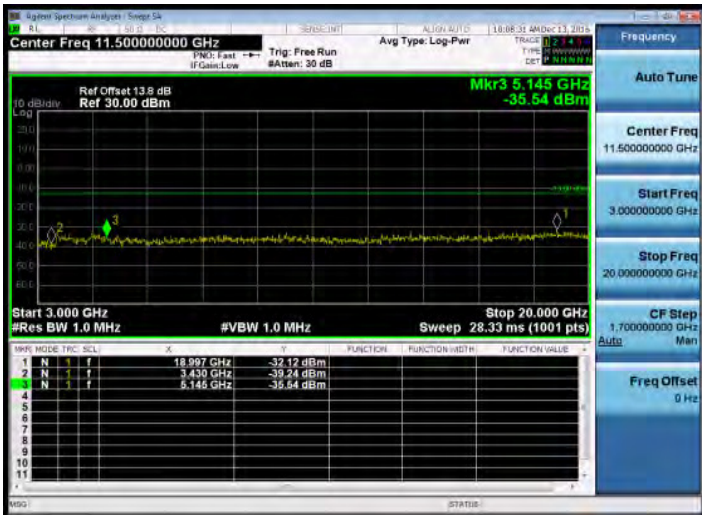
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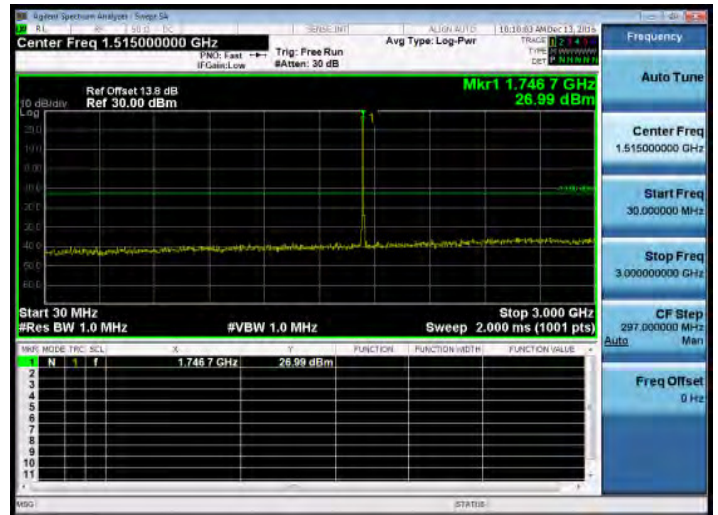
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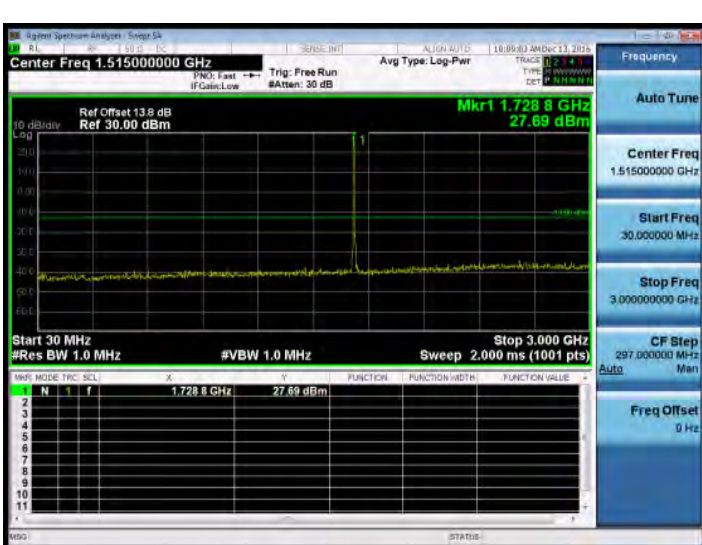
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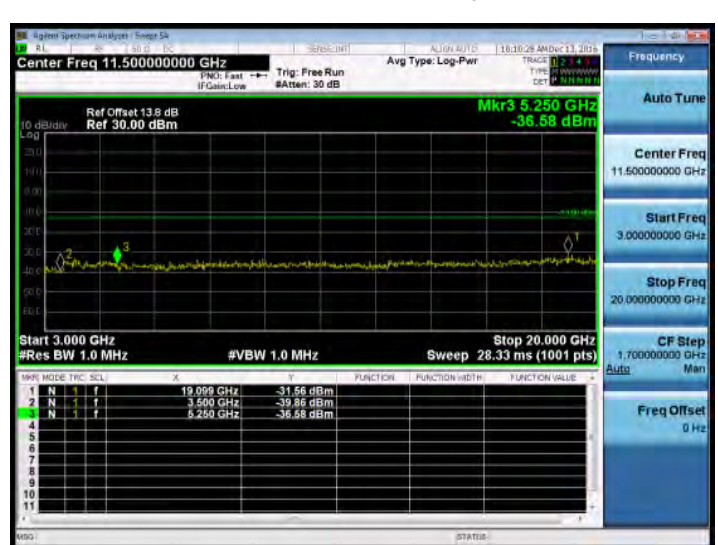
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30MHz~3GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750



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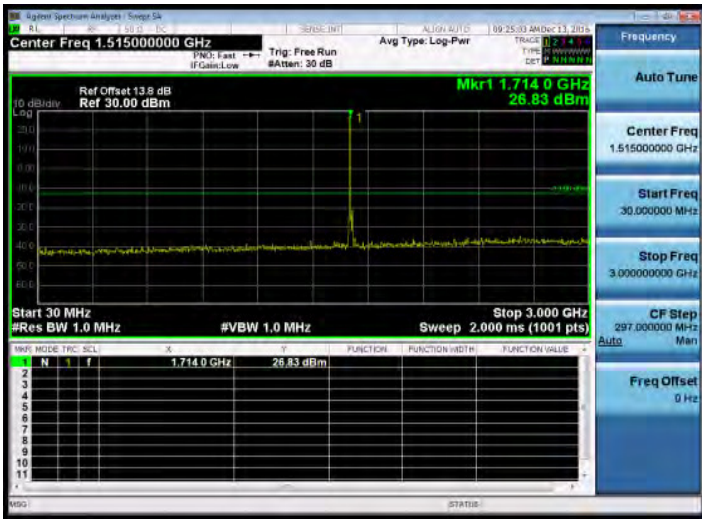
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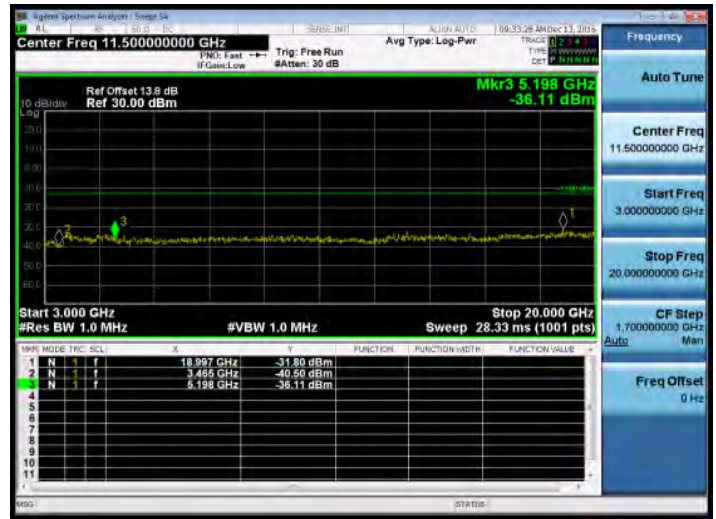
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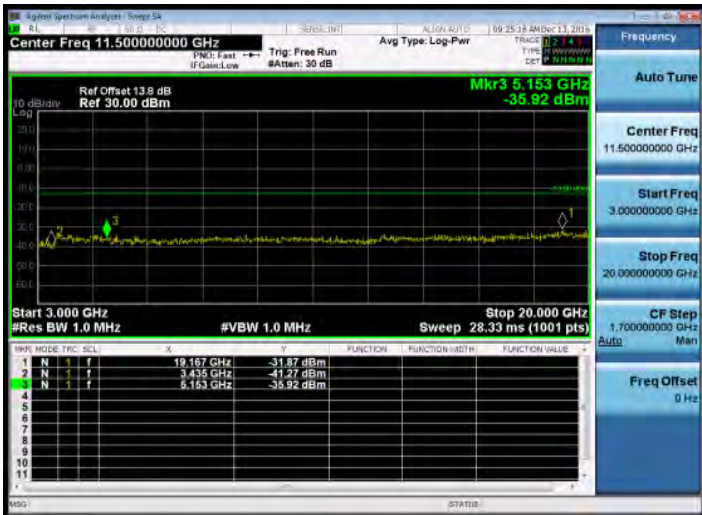
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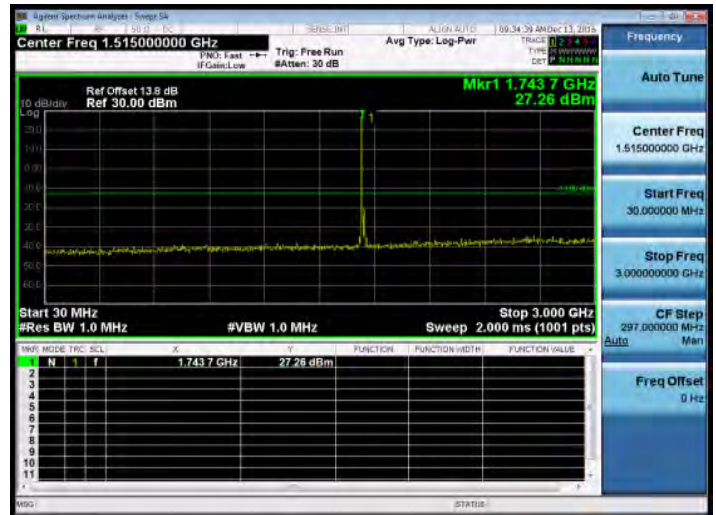
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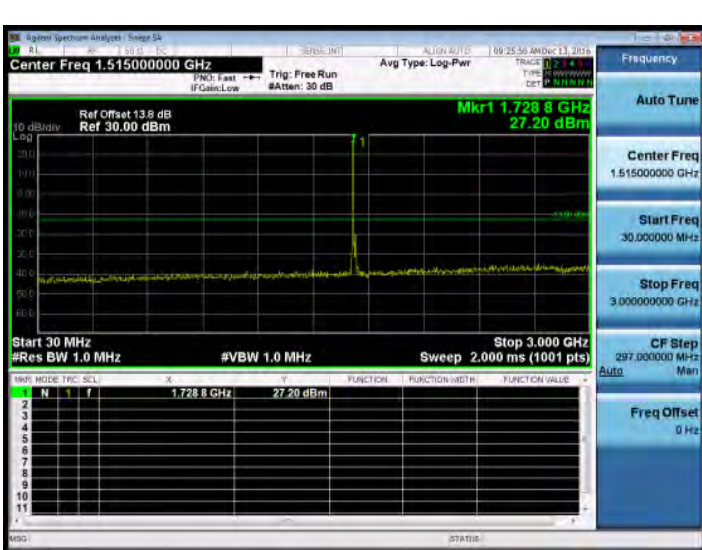
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30MHz~3GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5



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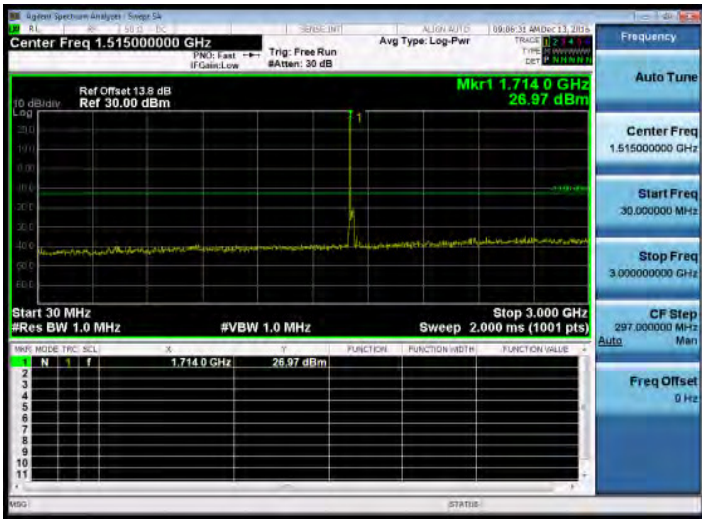
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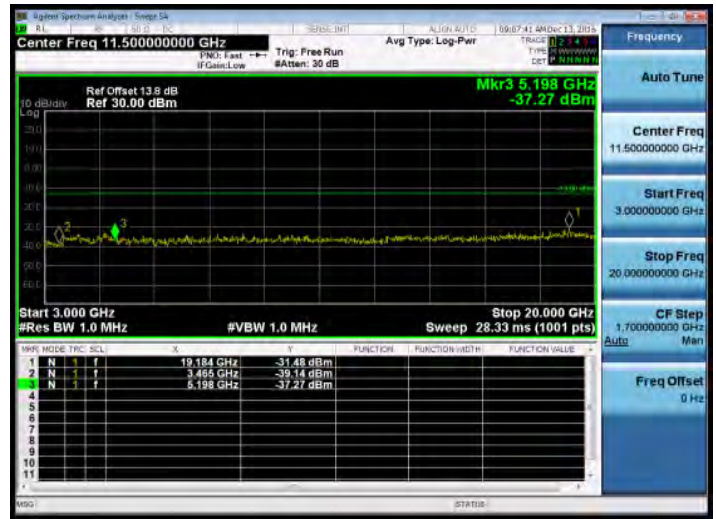
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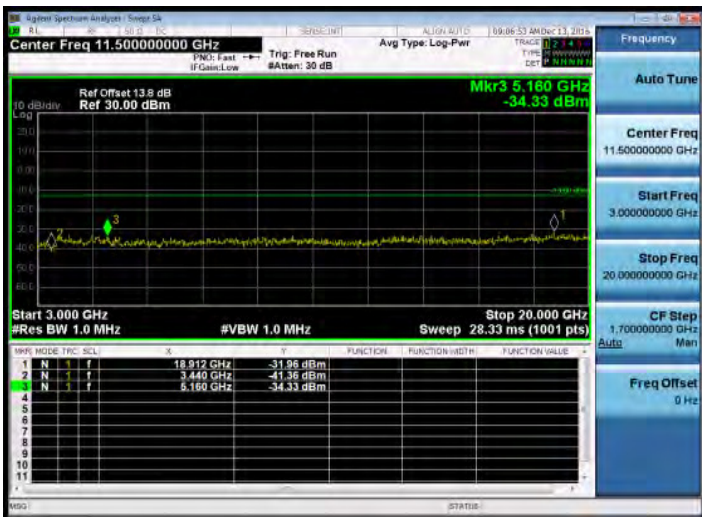
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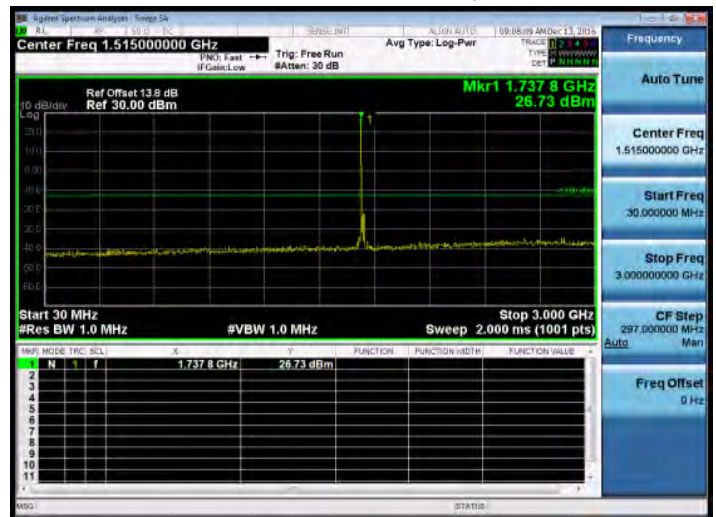
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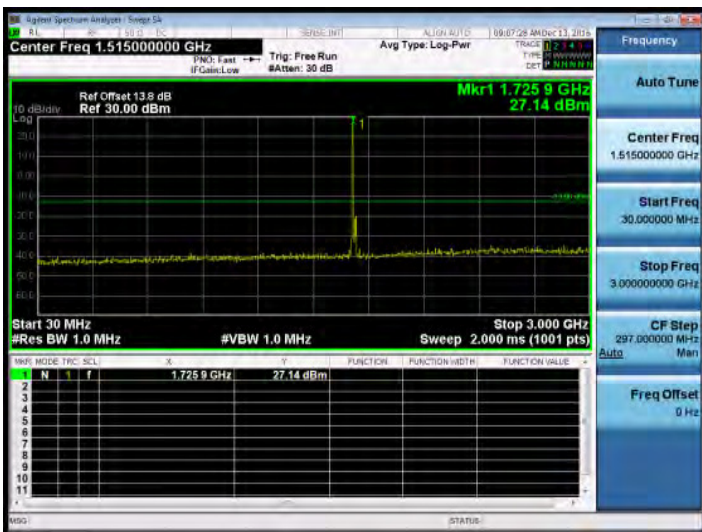
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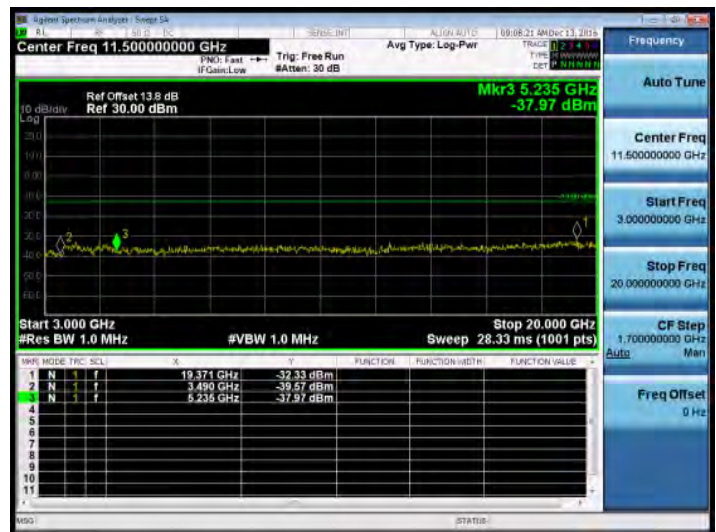
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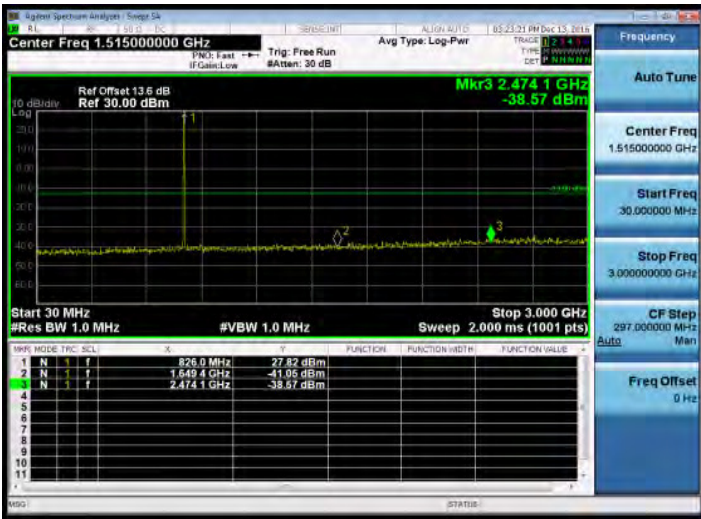
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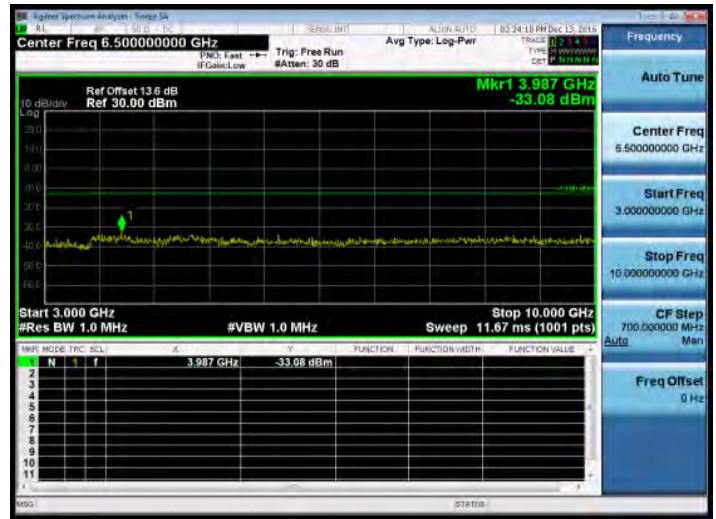
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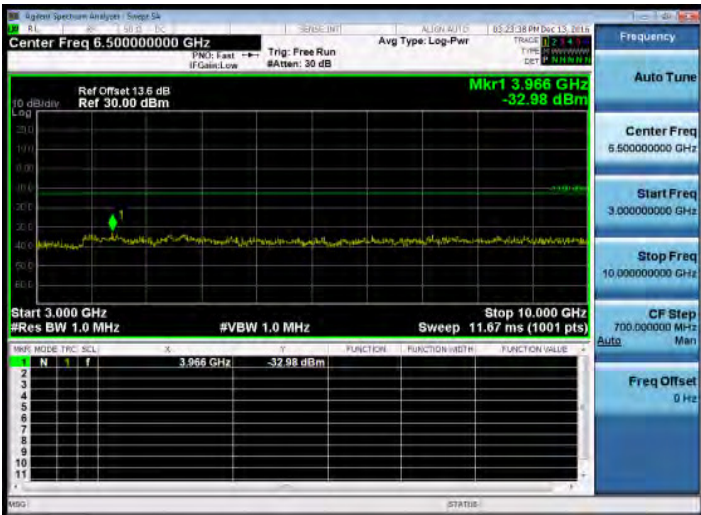
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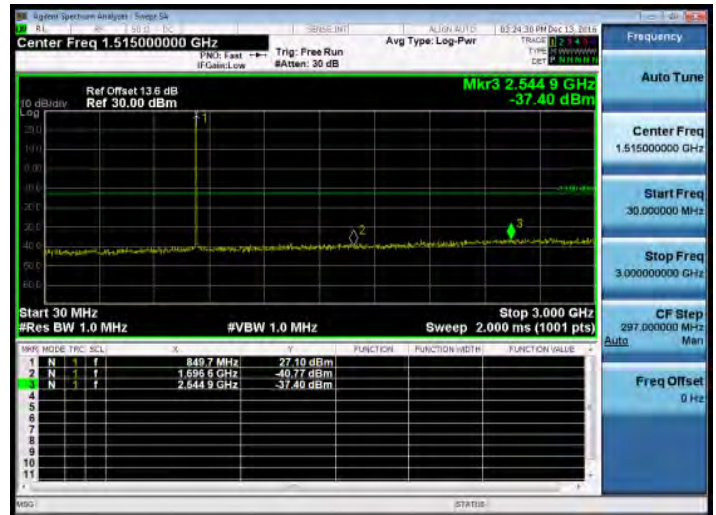
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3GHz~10GHz_Band5_1.4MHz_QPSK_1_0_LowCH20407-824.7



30MHz~3GHz_Band5_1.4MHz_QPSK_1_0_HighCH20643-848.3



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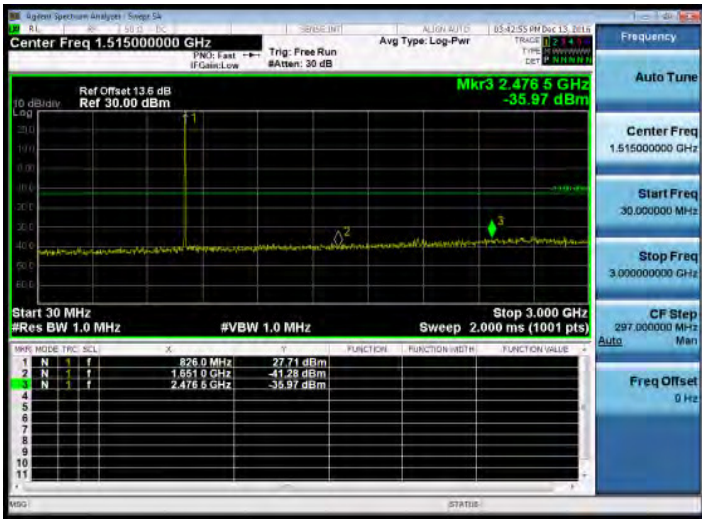
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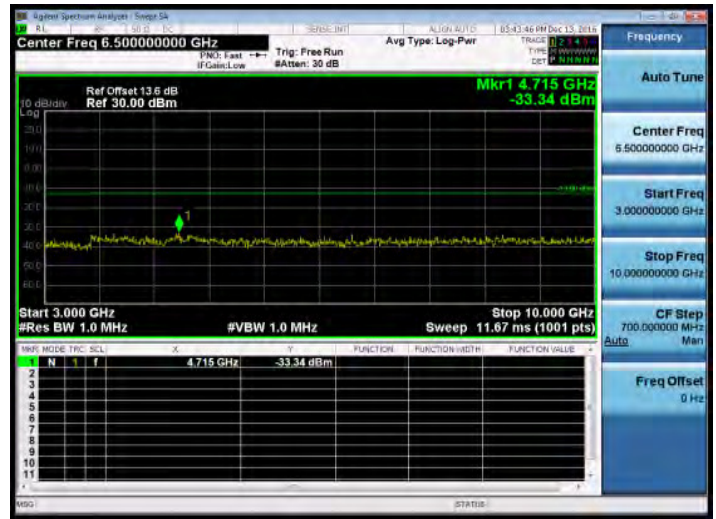
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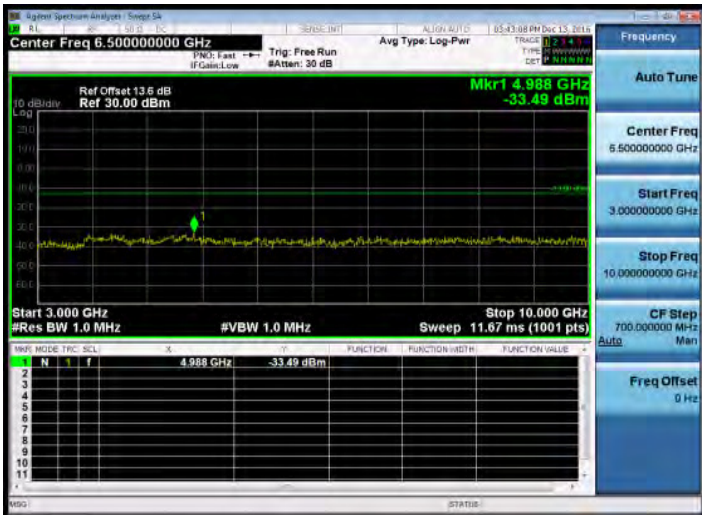
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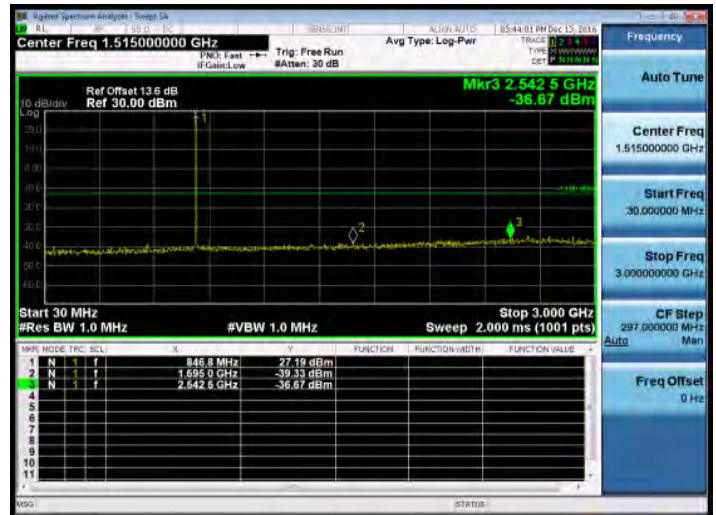
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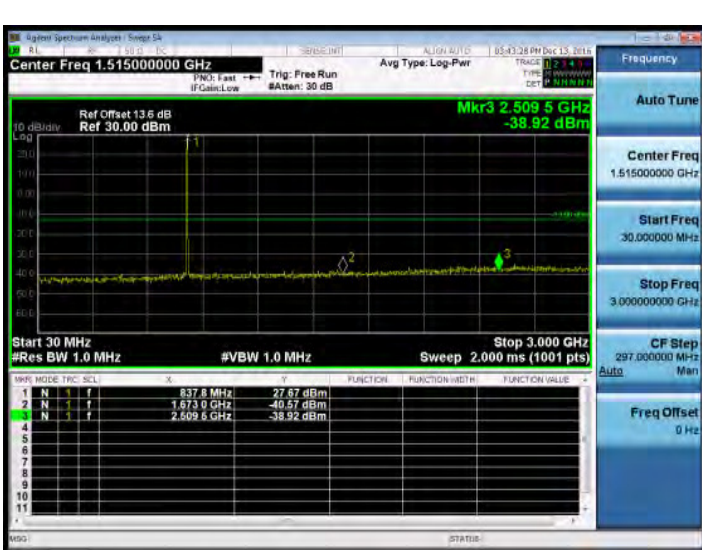
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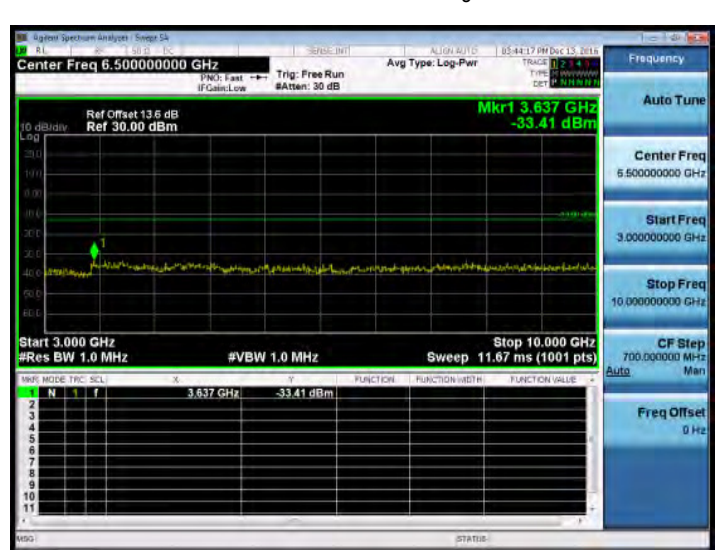
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30MHz~3GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5



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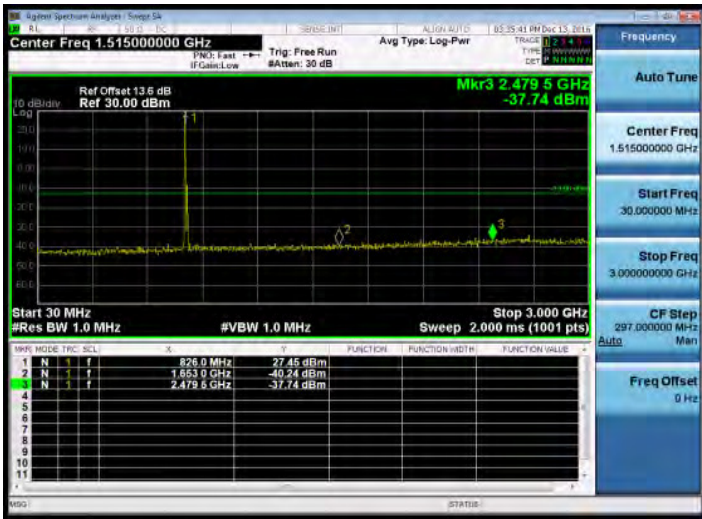
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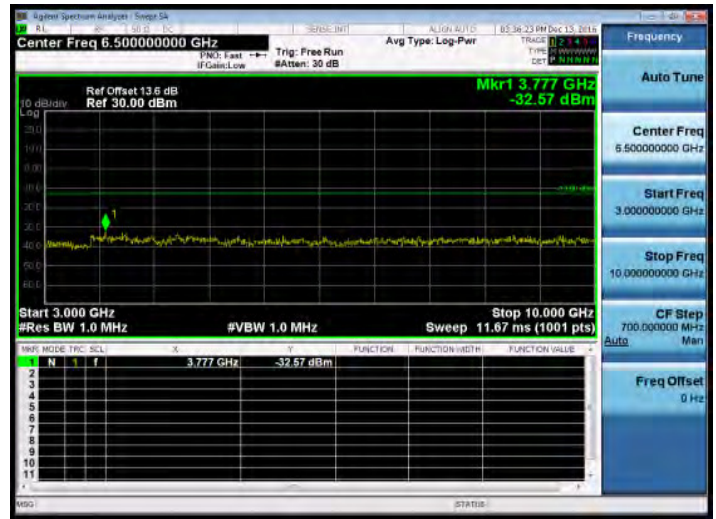
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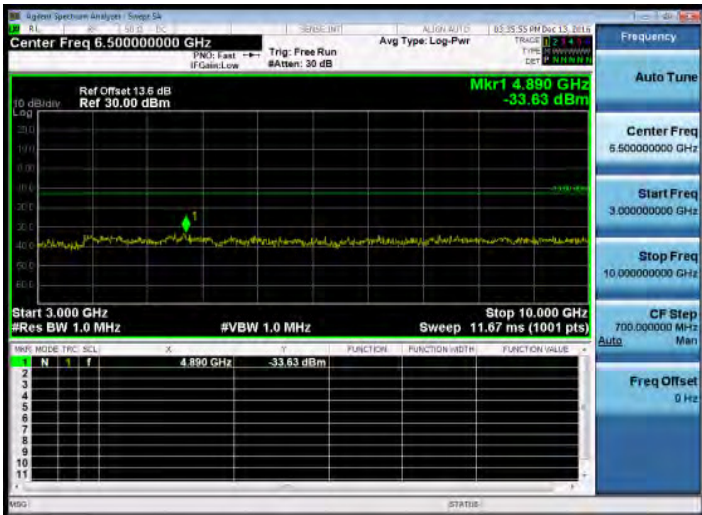
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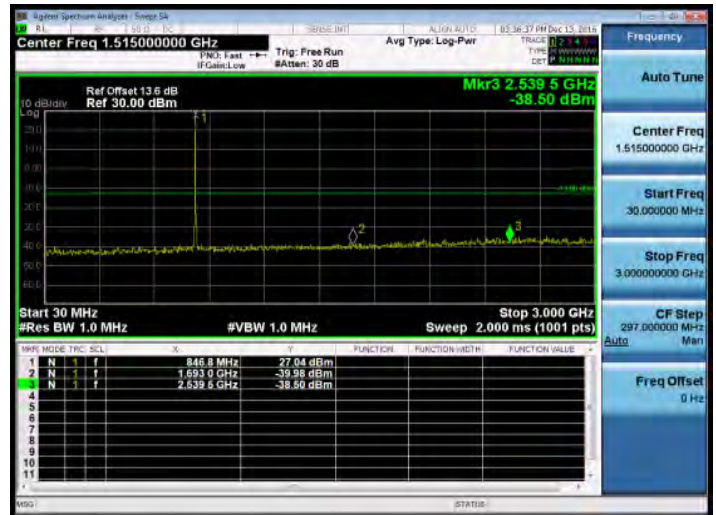
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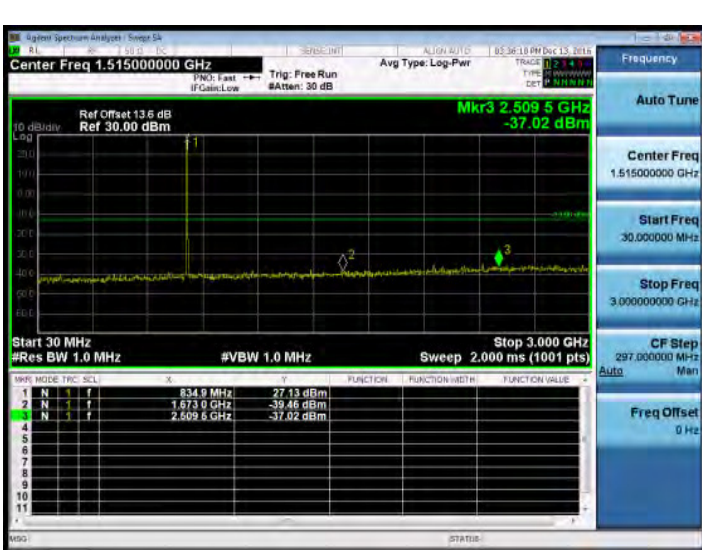
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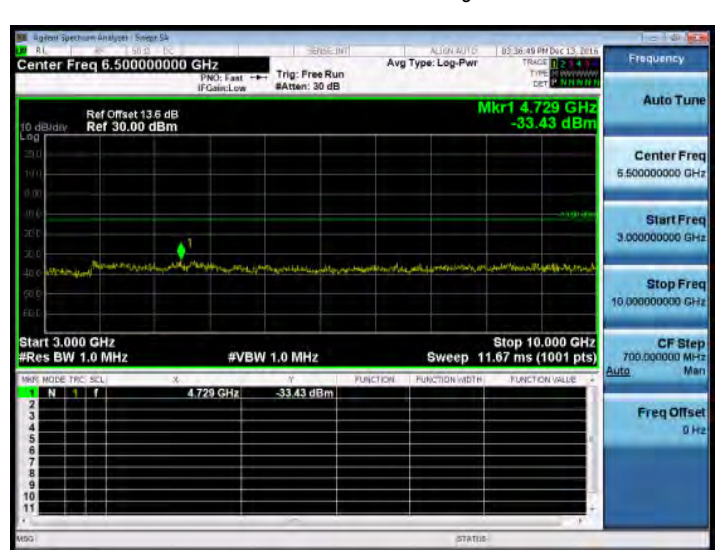
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30MHz~3GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5



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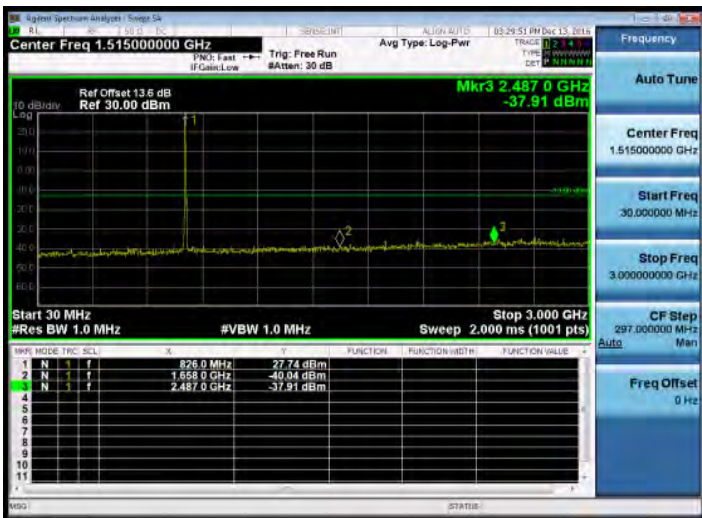
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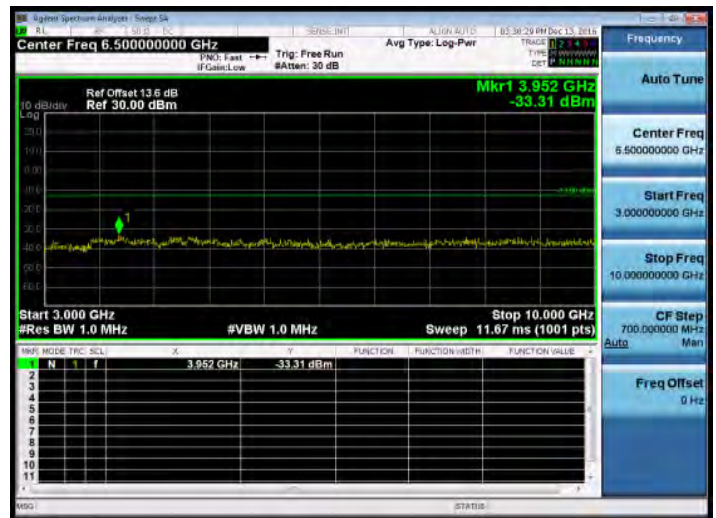
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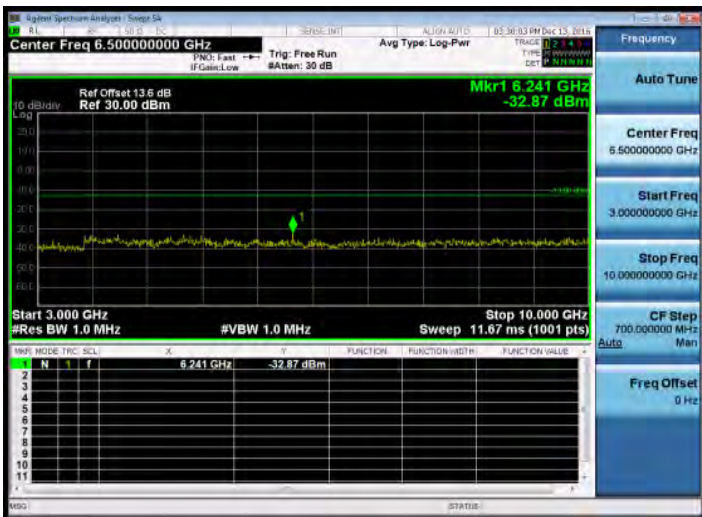
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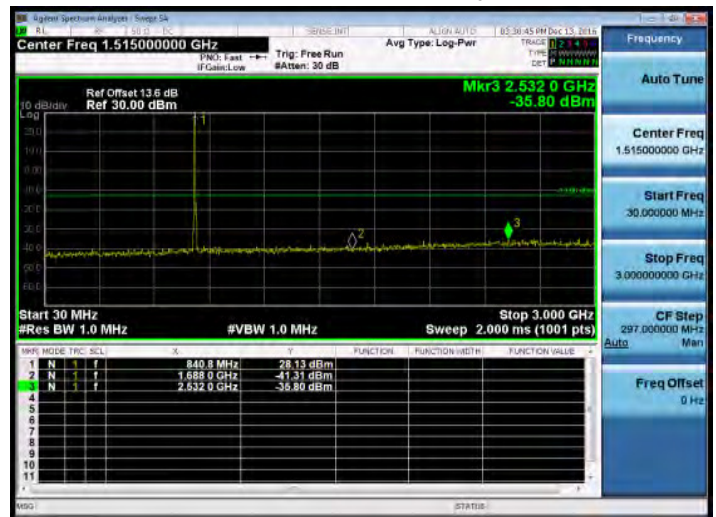
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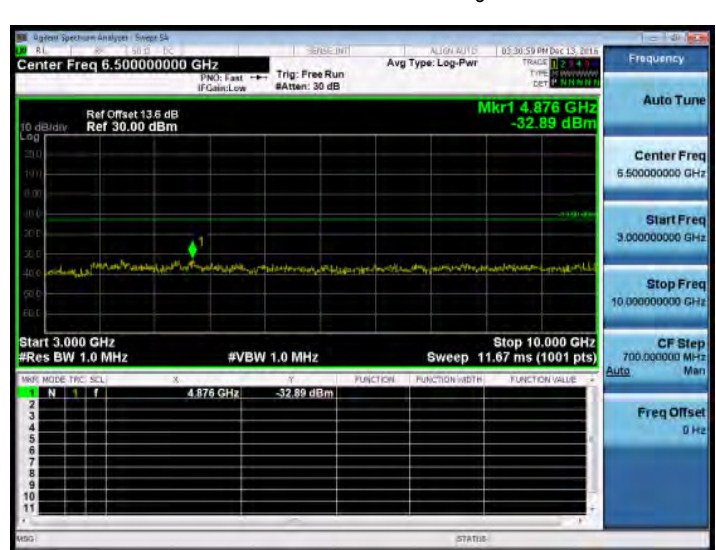
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3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



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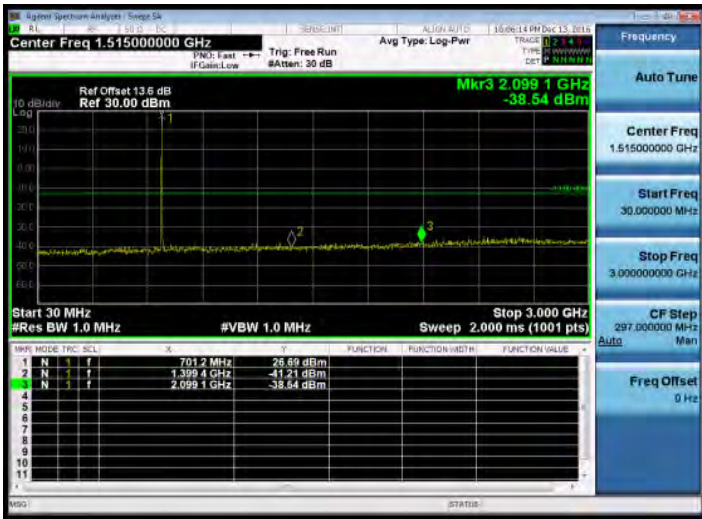
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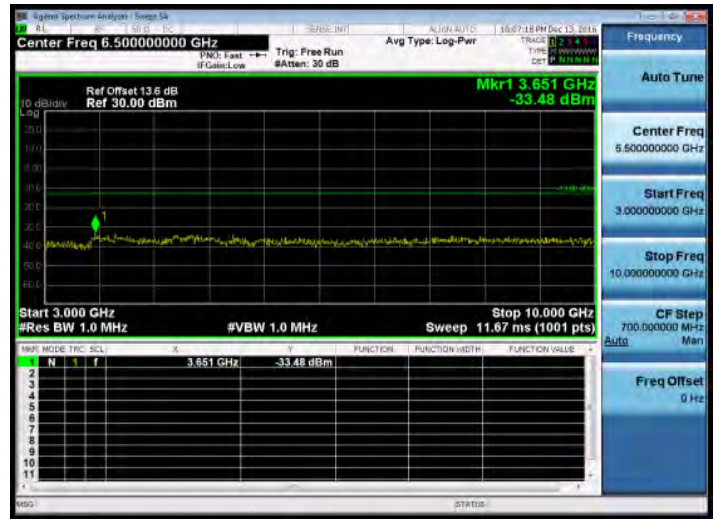
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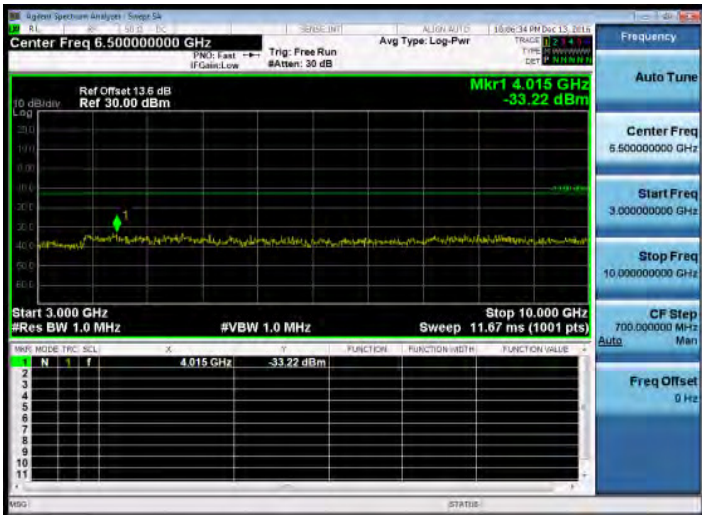
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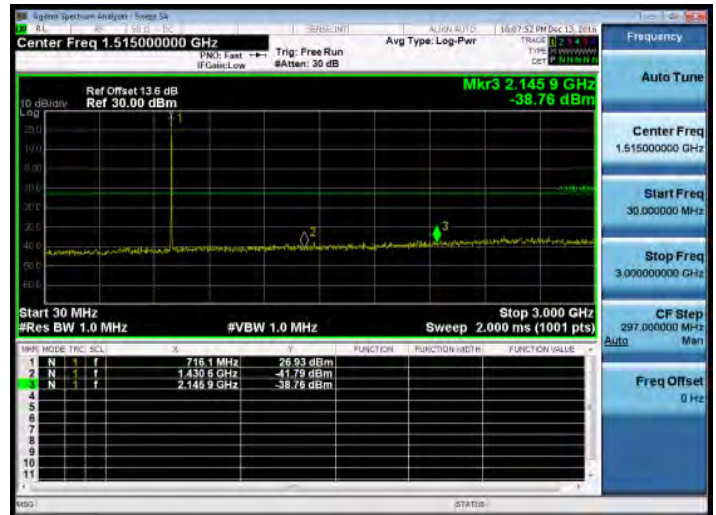
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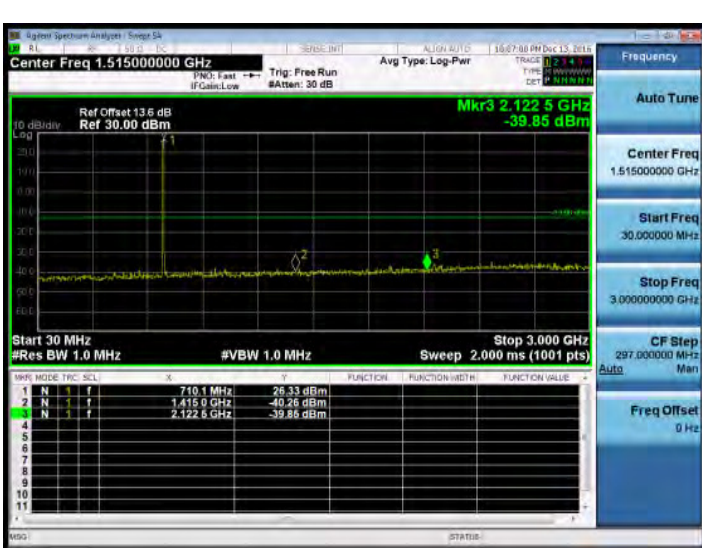
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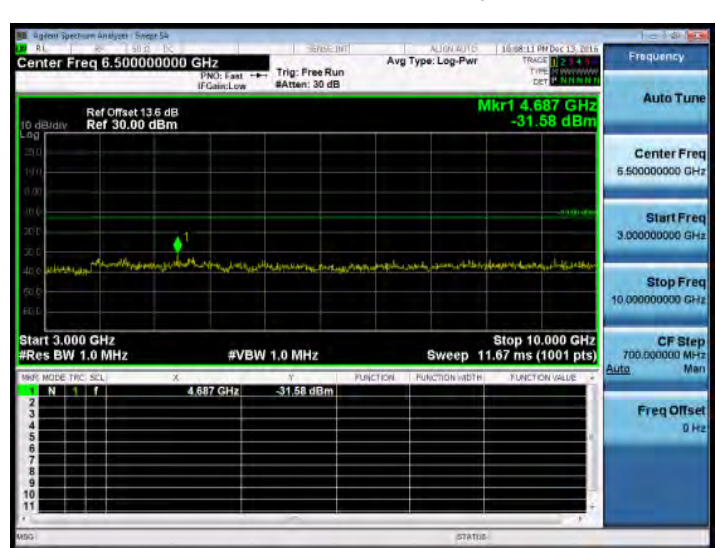
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3GHz-10GHz_Band12_1.4MHz_QPSK_1_0_HighCH23173-715.3



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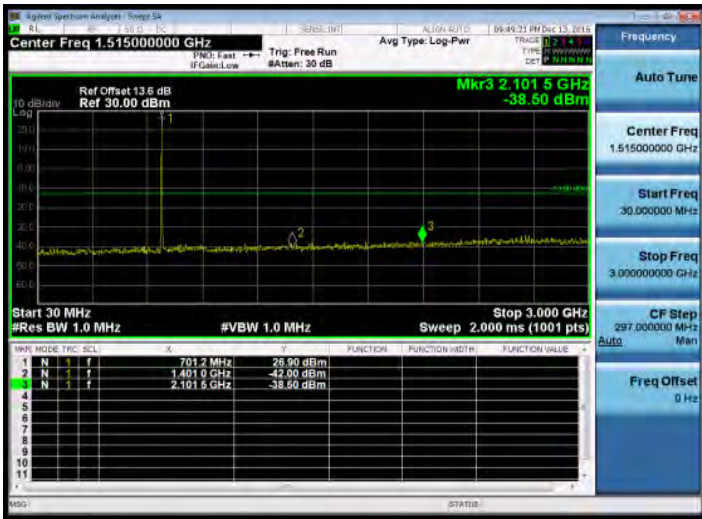
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f (886-2) 2298-0488

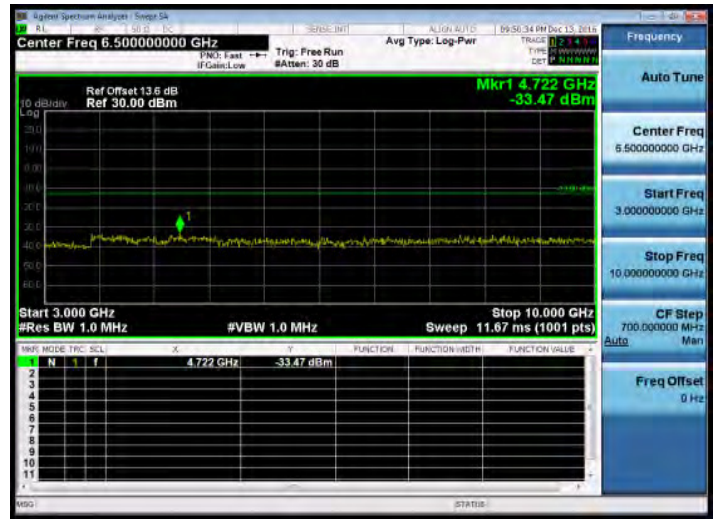
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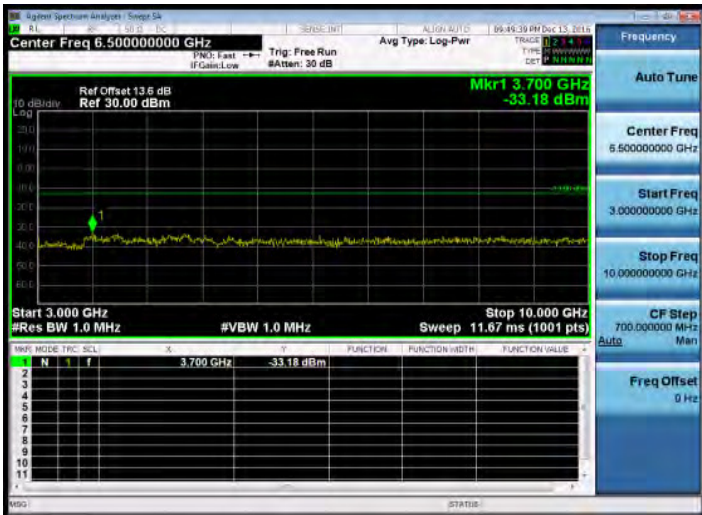
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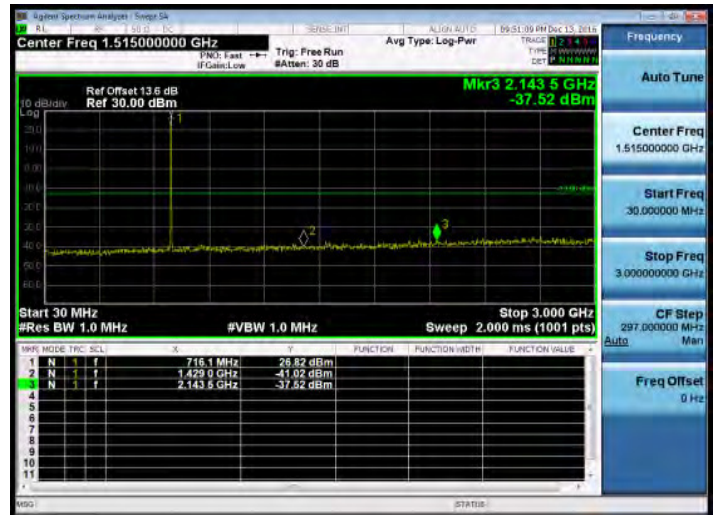
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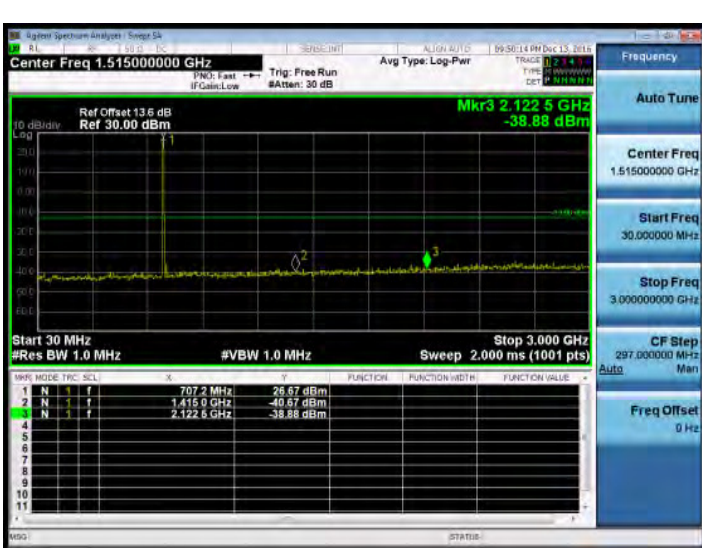
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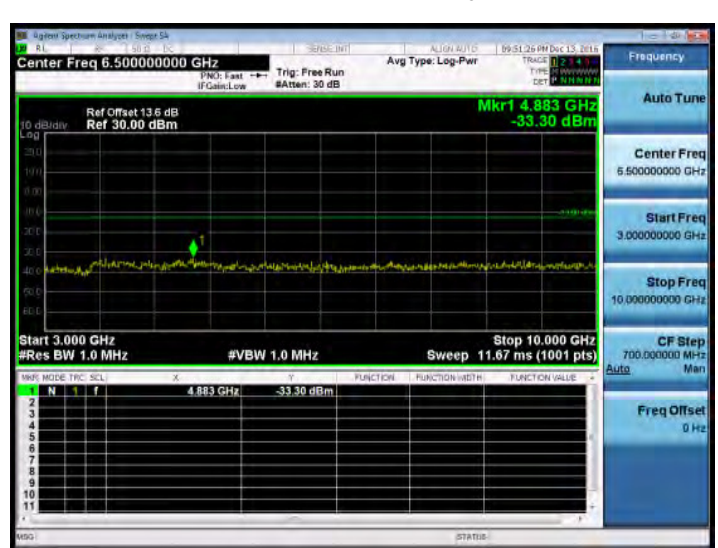
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3GHz~10GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



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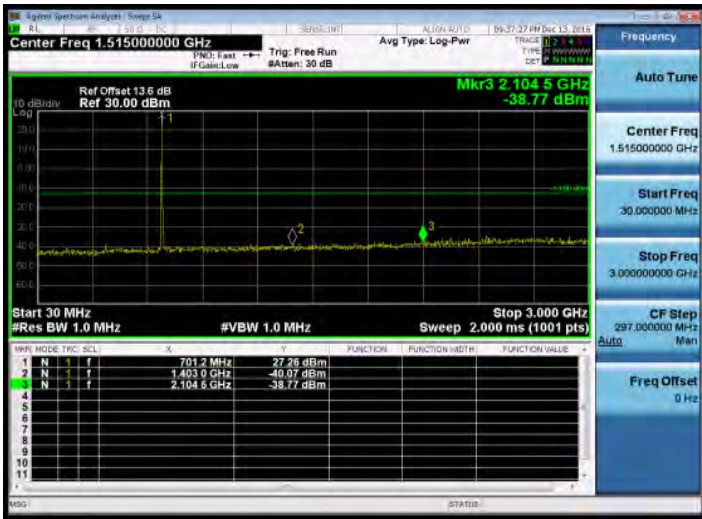
t (886-2) 2299-3279

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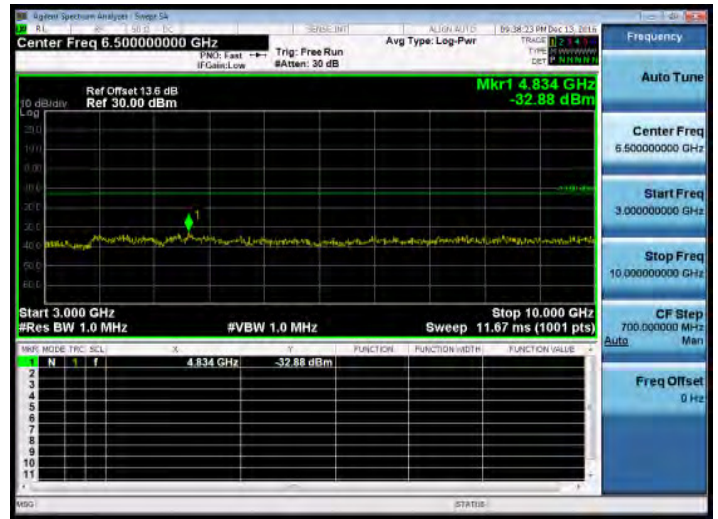
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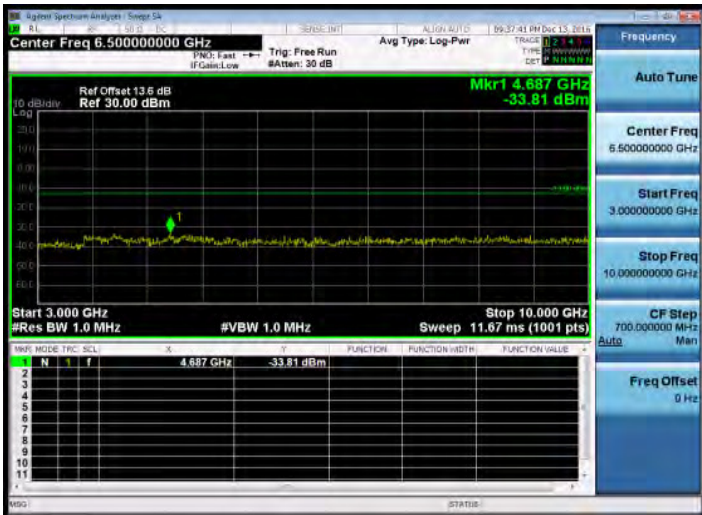
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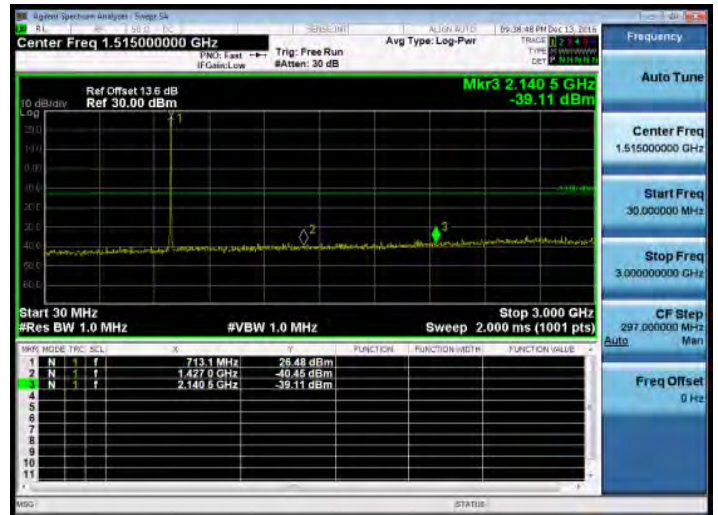
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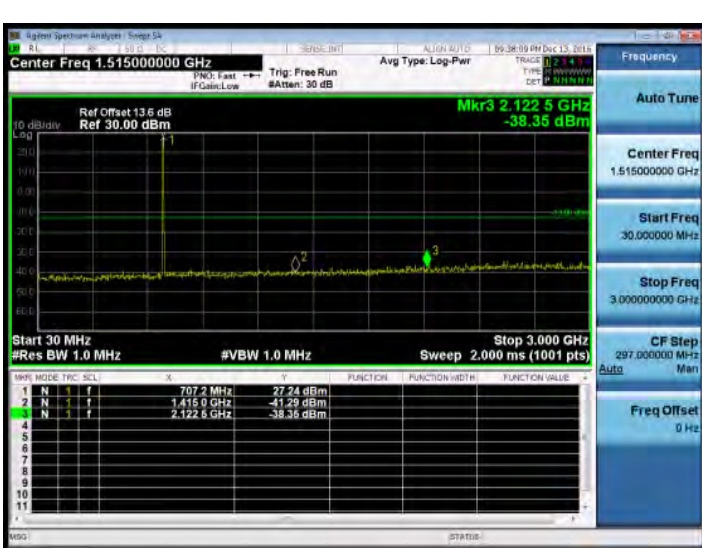
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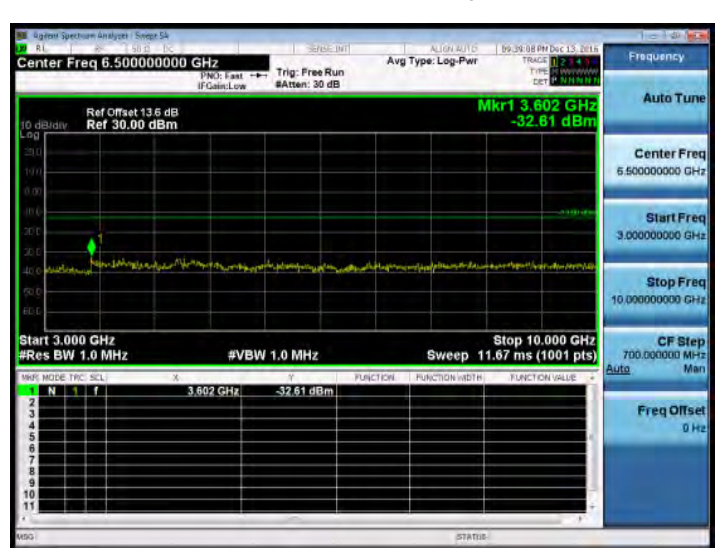
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3GHz~10GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5



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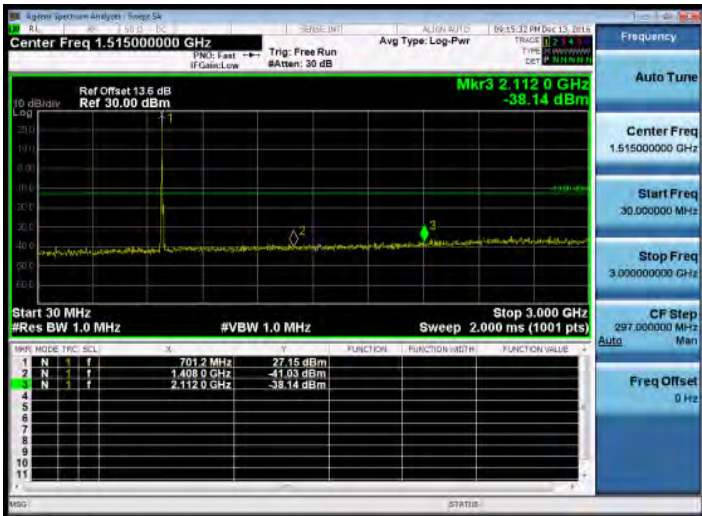
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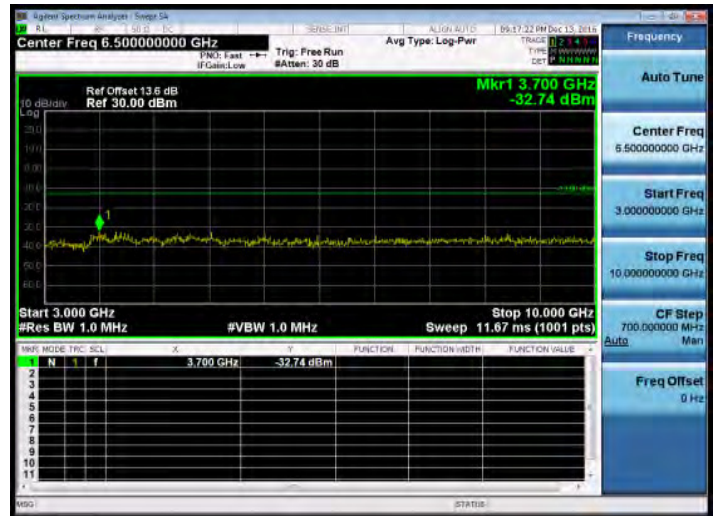
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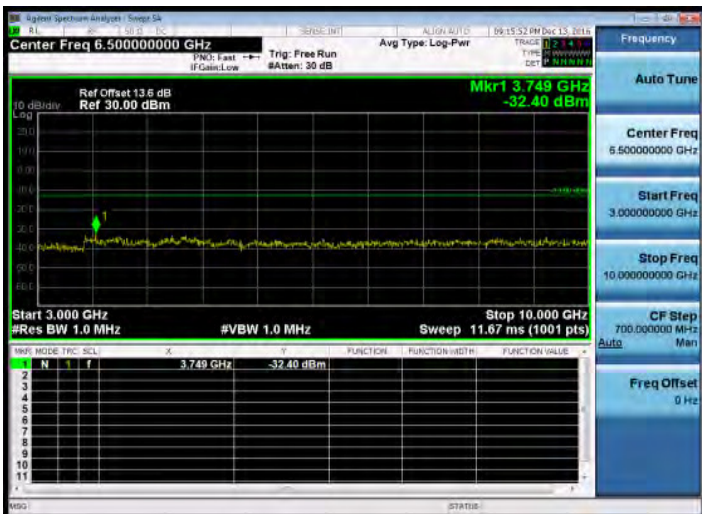
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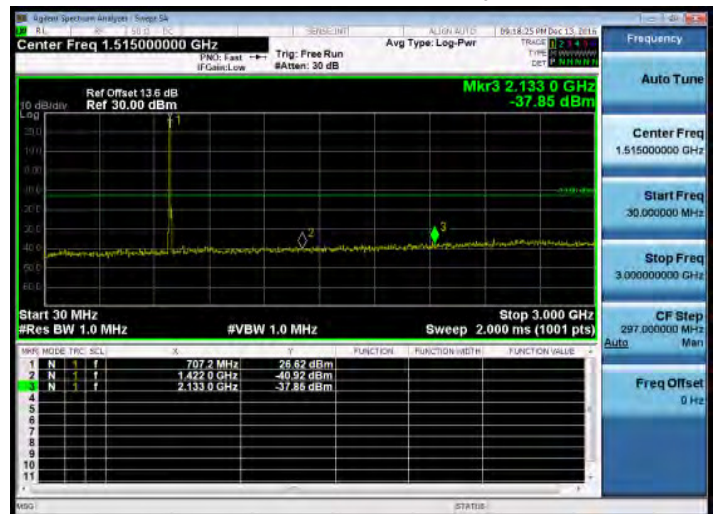
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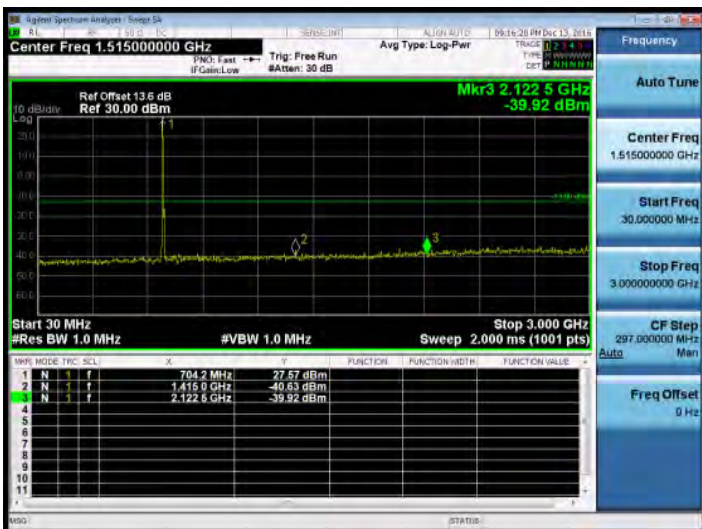
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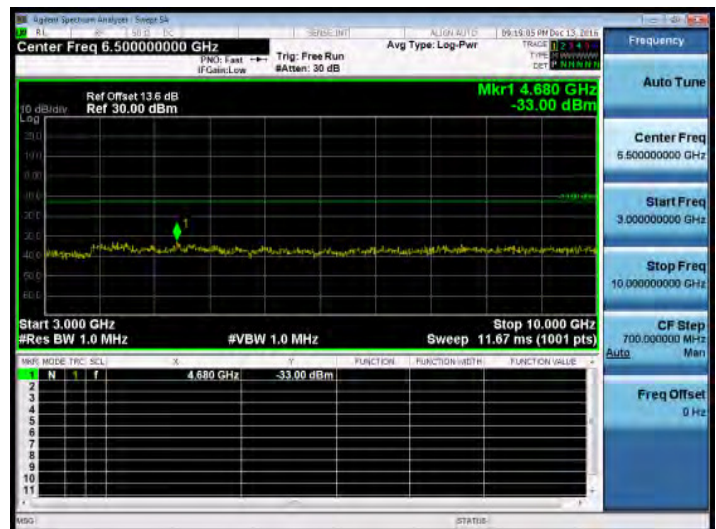
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3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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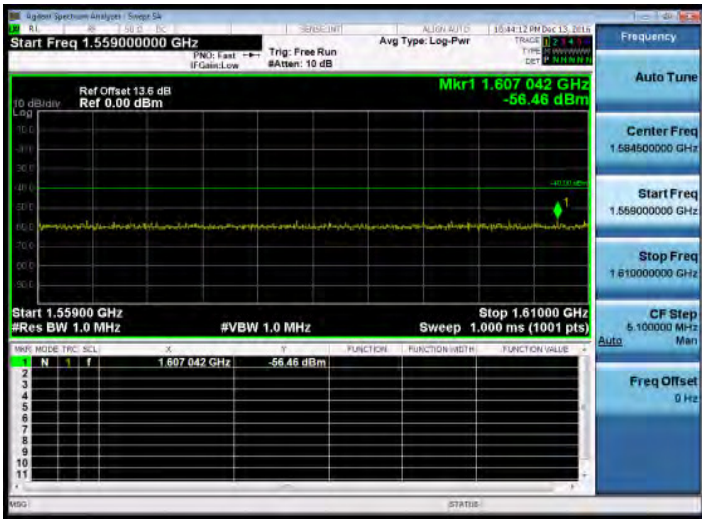
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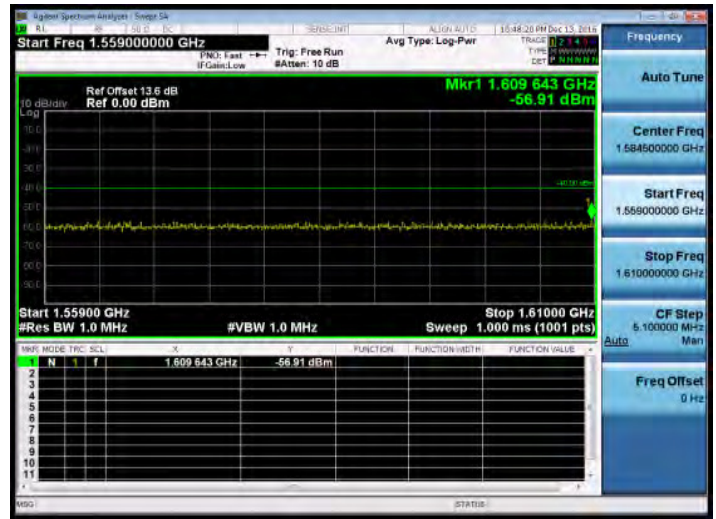
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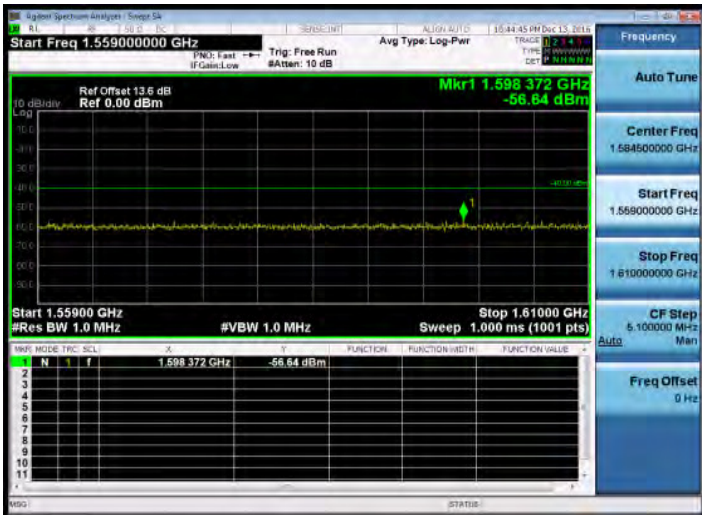
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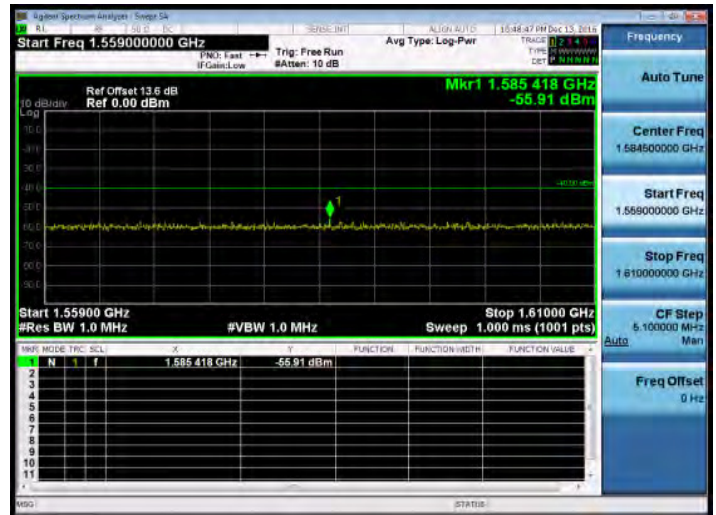
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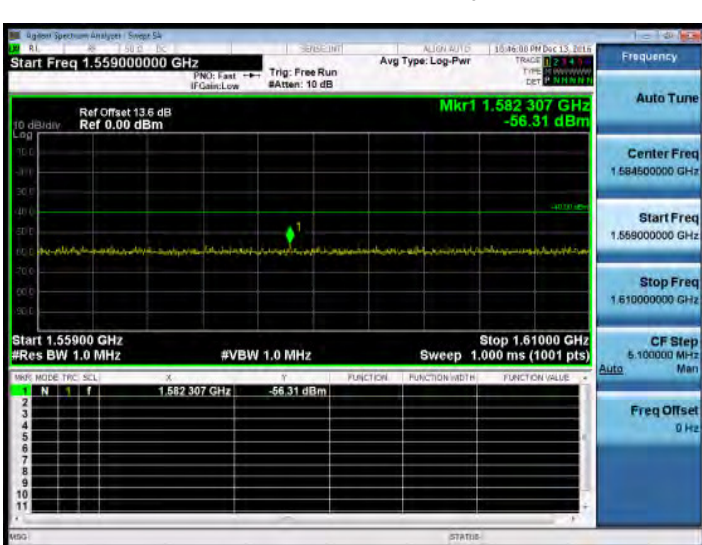
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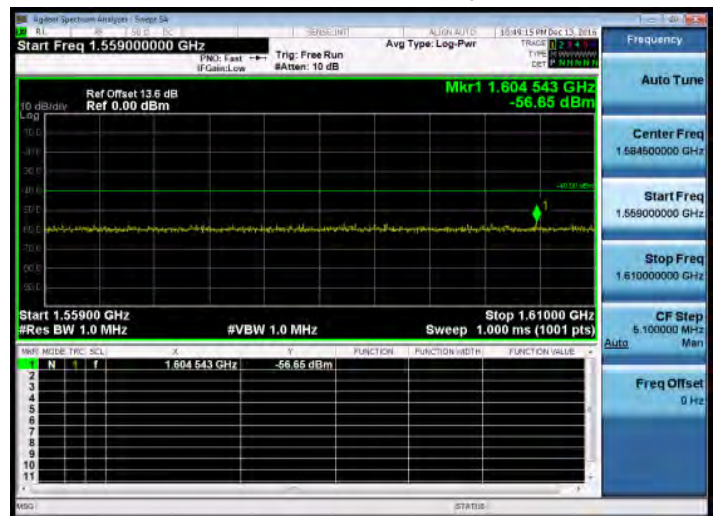
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30MHz~3GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



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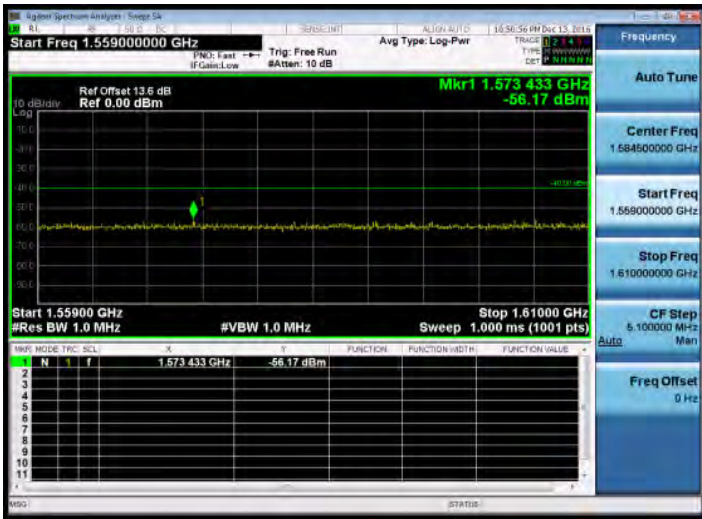
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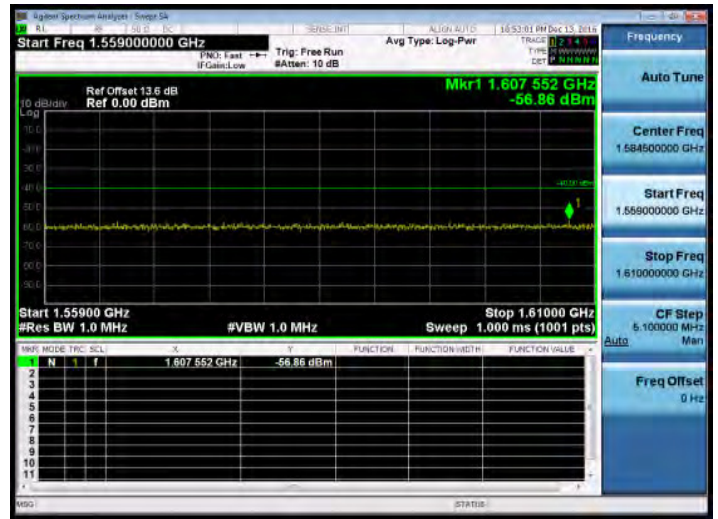
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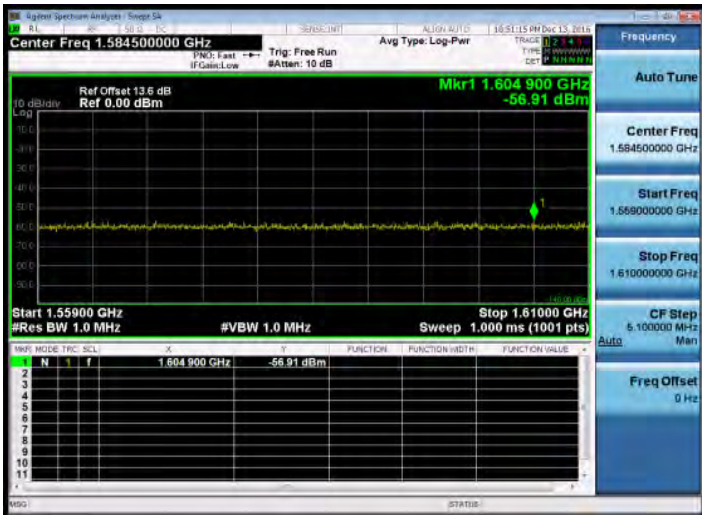
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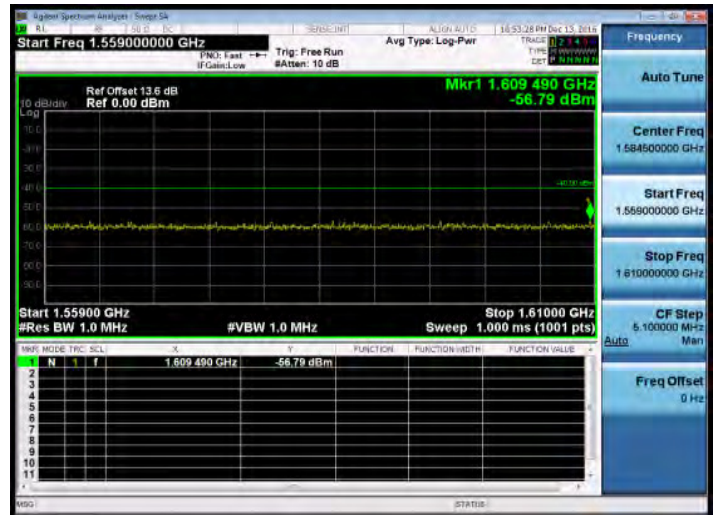
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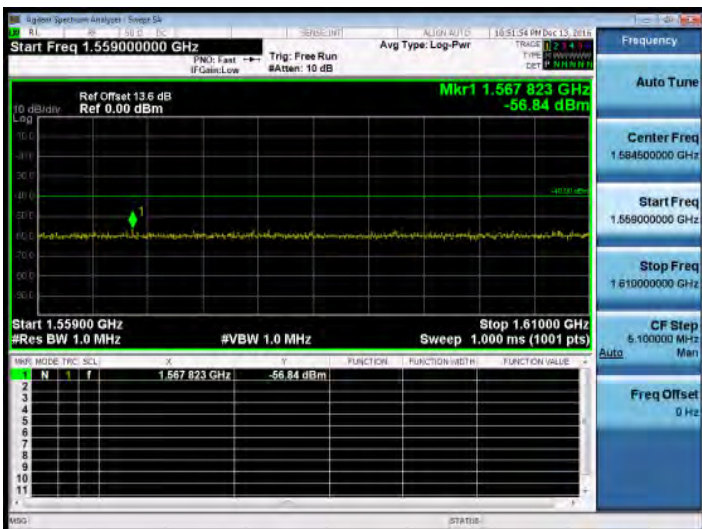
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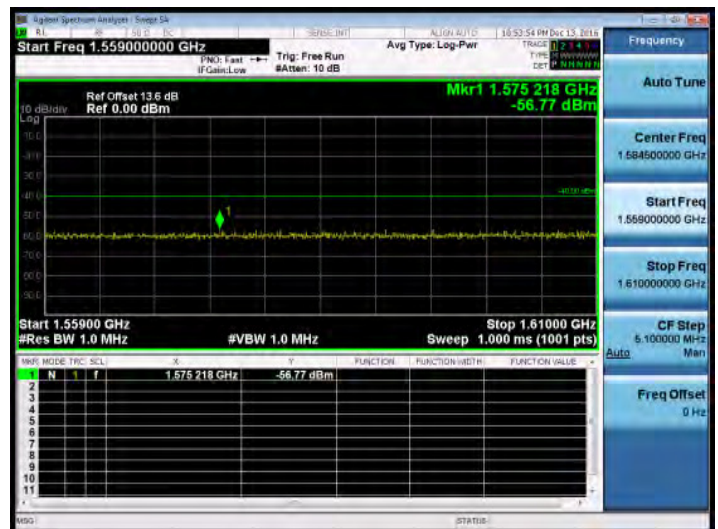
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30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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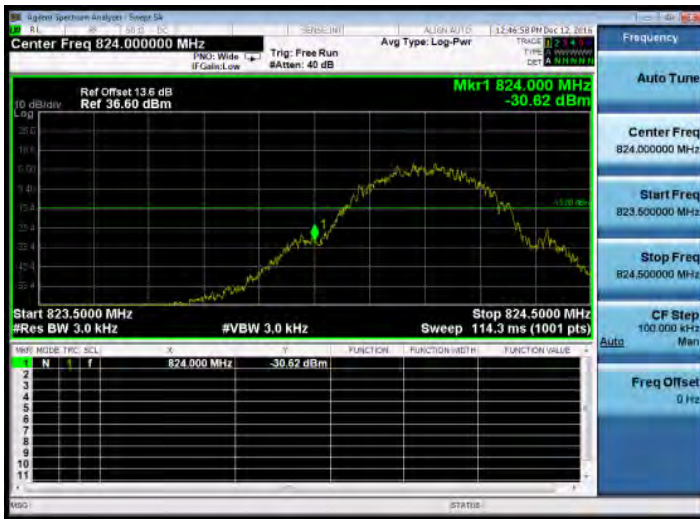
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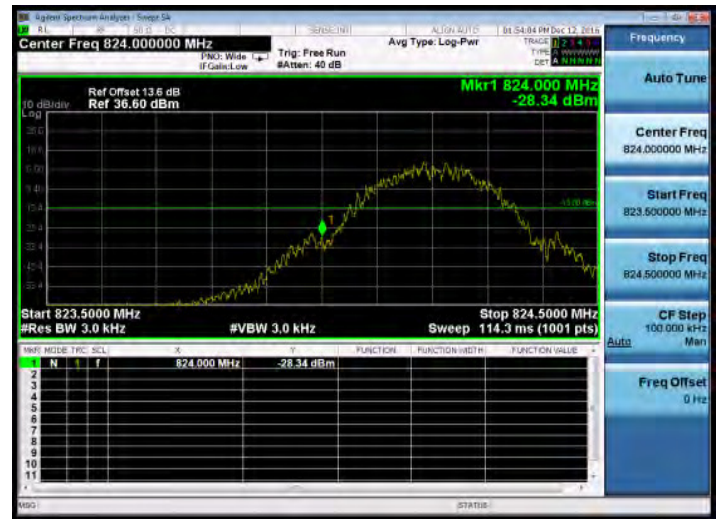
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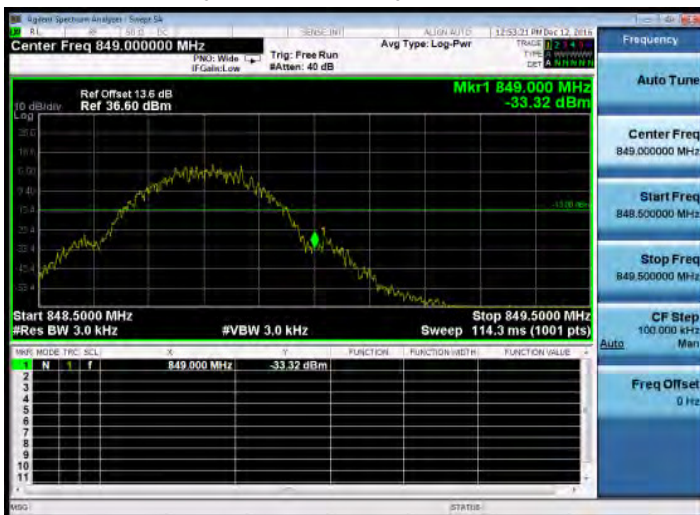
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Band Edge_GSM_850MHz_HighCH251-848.8



Band Edge_GPRS_850MHz_HighCH251-848.8



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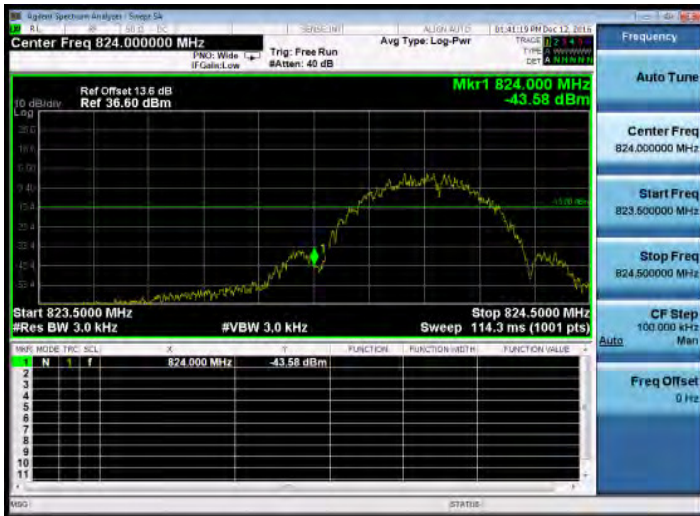
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Band Edge_EDGE_850MHz_LowCH128-824.2



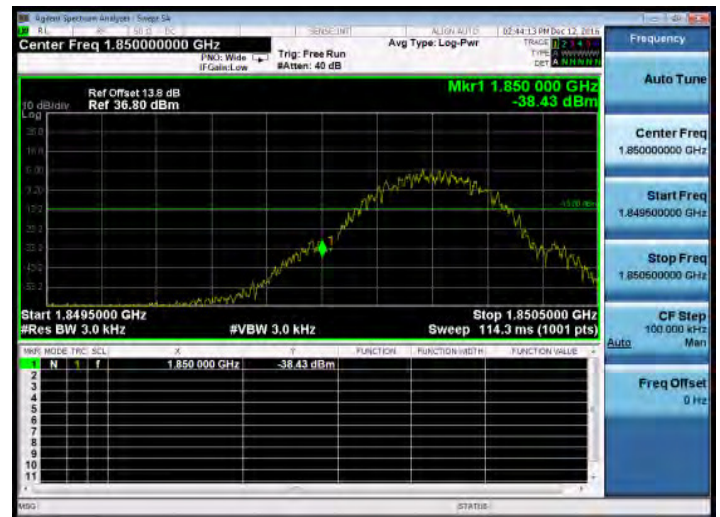
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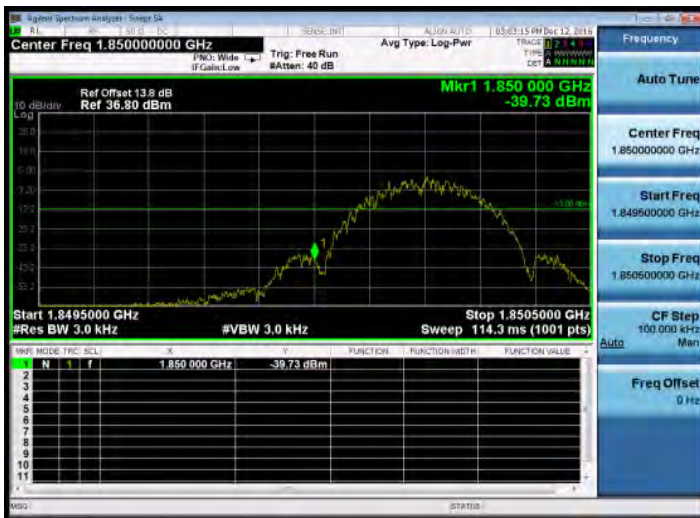


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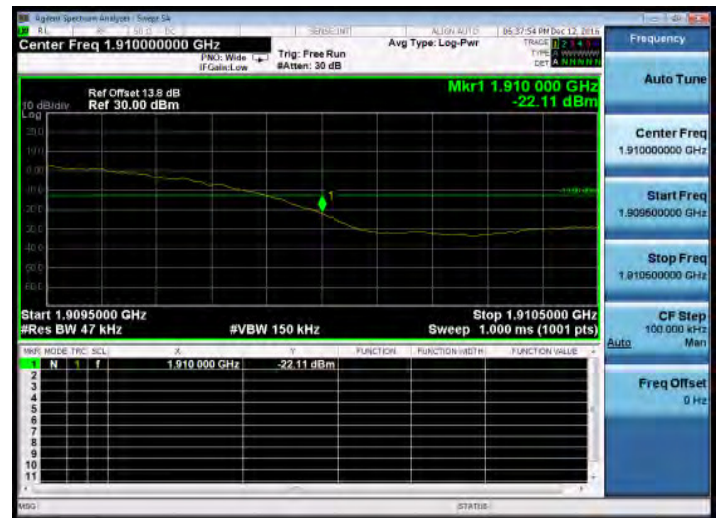
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Band Edge_EDGE_1900MHz_LowCH512-1850.2



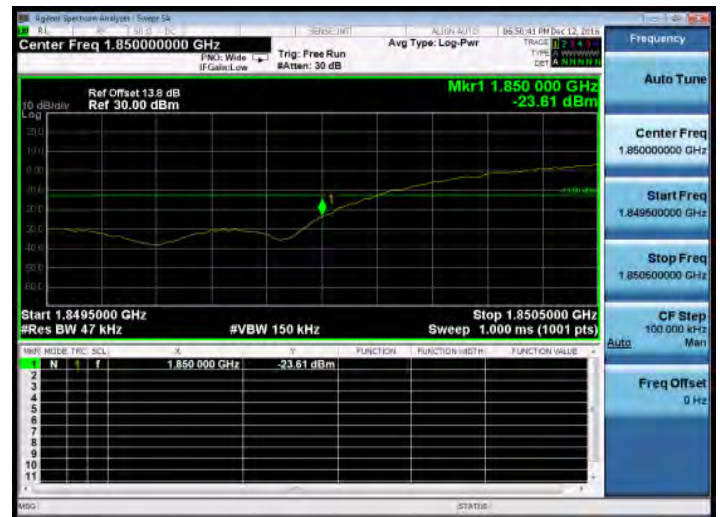
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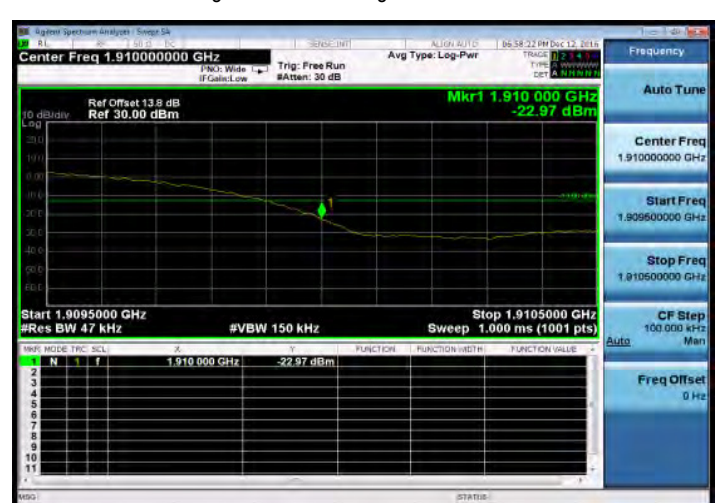
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Band Edge_WCDMA_B2_LowCH9262-1852.4



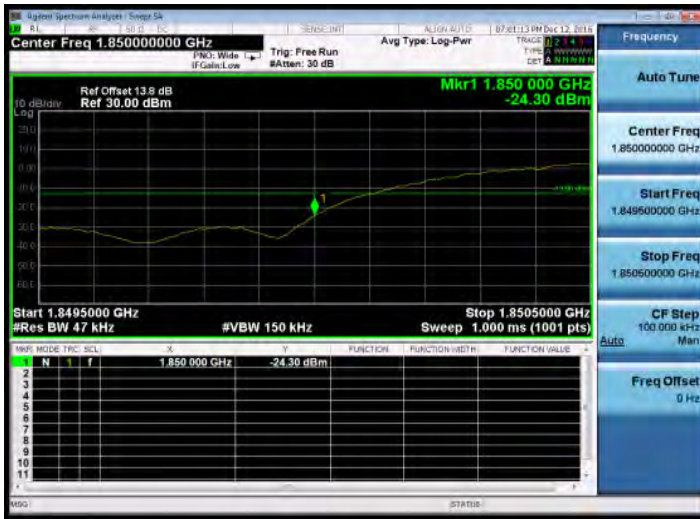
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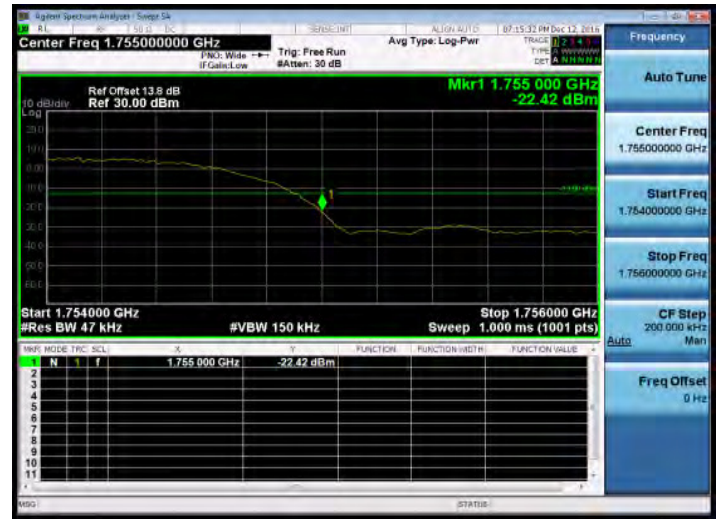
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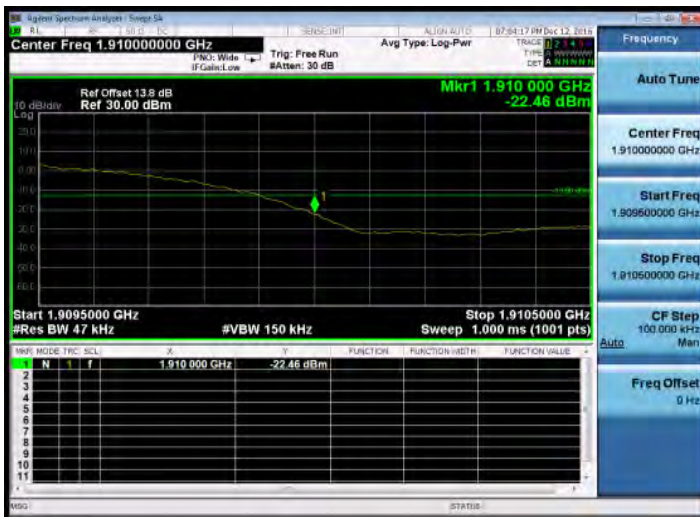
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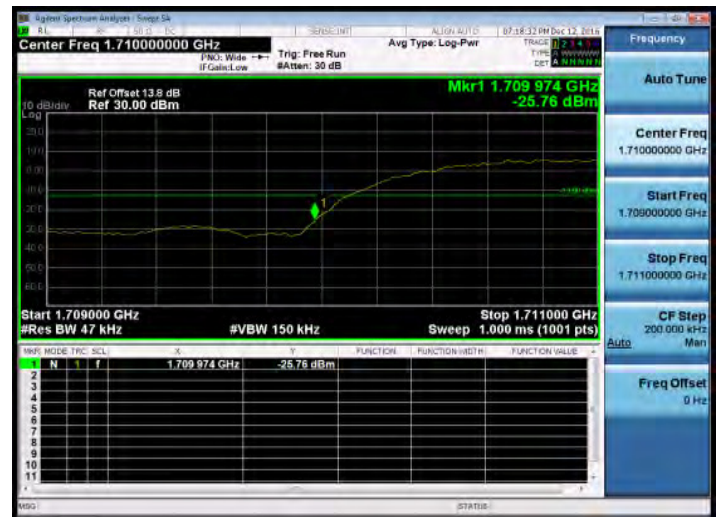
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Band Edge_HSUPA_B2_HighCH9538-1907.6



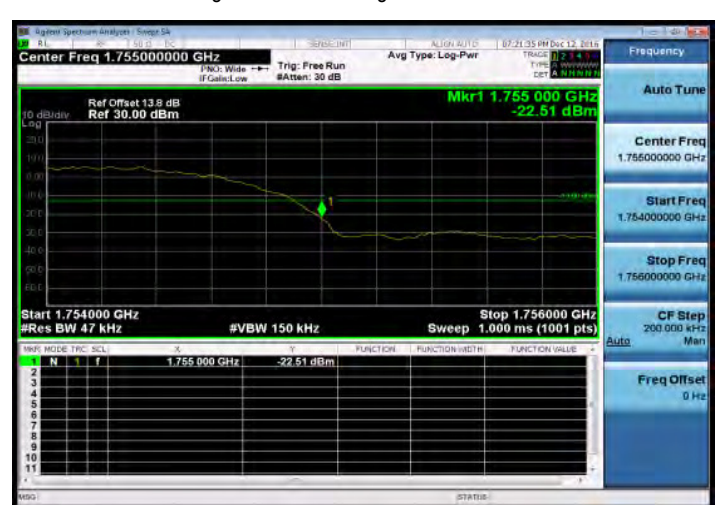
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Band Edge_WCDMA_B4_LowCH1312-1712.4



Band Edge_HSDPA_B4_HighCH1513-1752.6



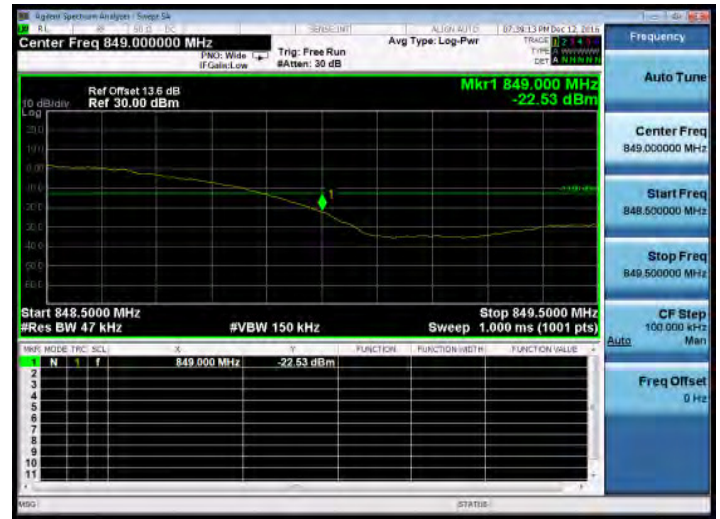
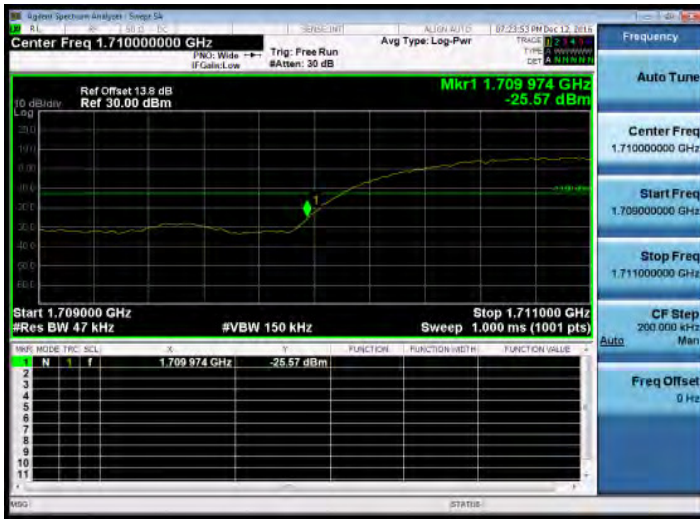
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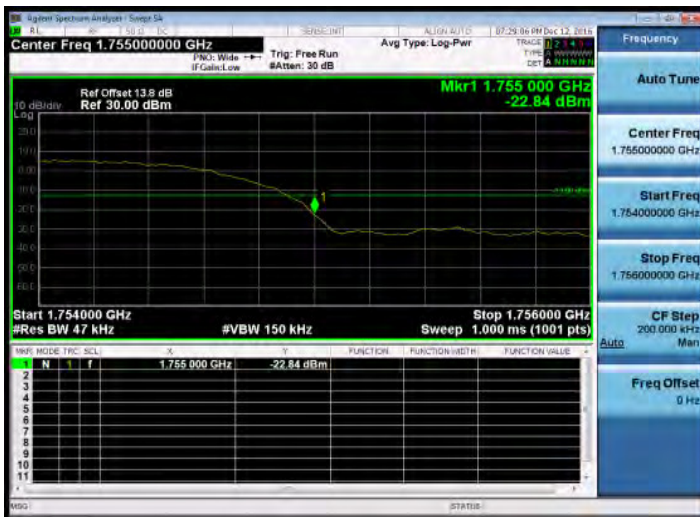
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Band Edge_WCDMA_B5_HighCH4233-846.6



Band Edge_HSUPA_B4_HighCH1513-1752.6

Band Edge_HSDPA_B5_LowCH4132-826.4



Band Edge_WCDMA_B5_LowCH4132-826.4

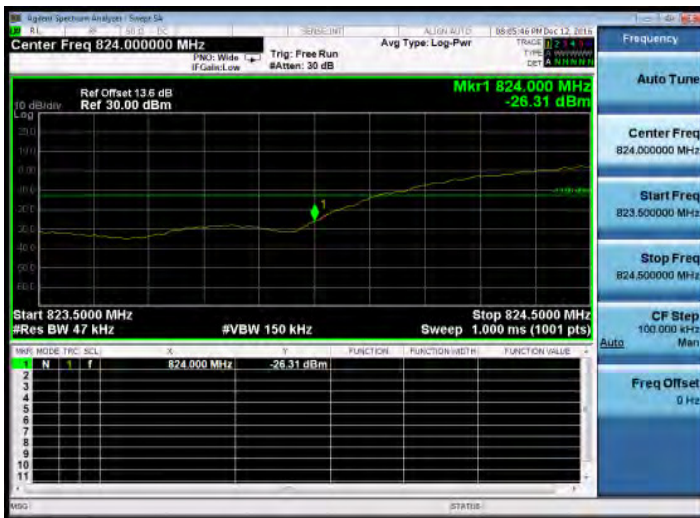
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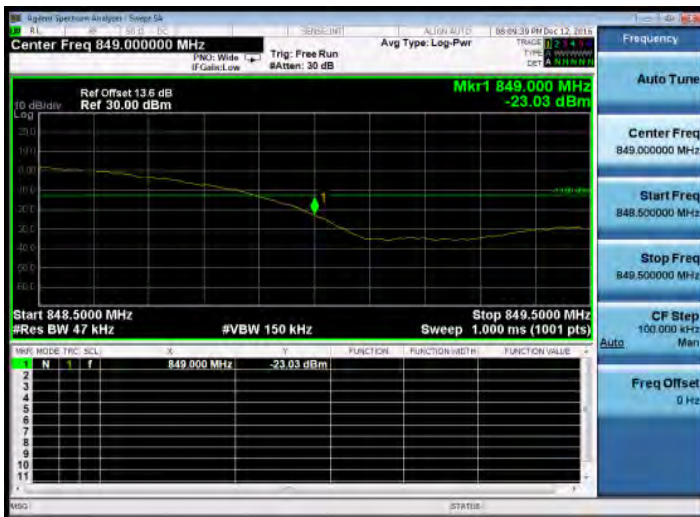
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Band Edge_HSUPA_B5_LowCH4132-826.4



Band Edge_HSUPA_B5_HighCH4233-846.6



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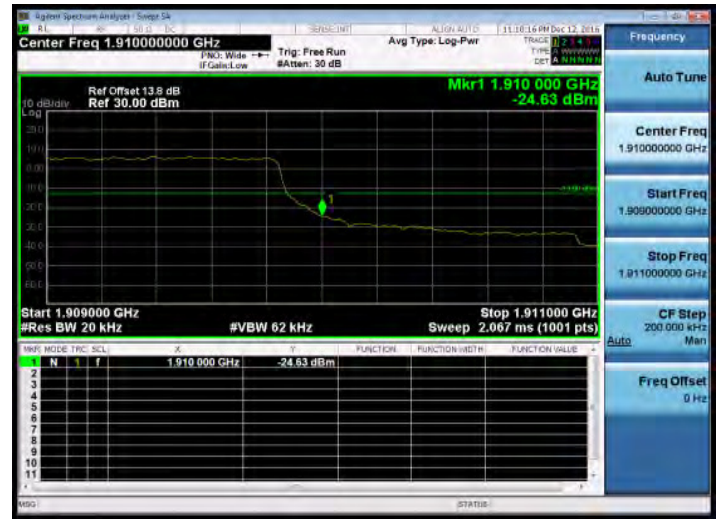
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Band Edge_Band2_1.4MHz_QPSK_1_0_LowCH18607-1850.7



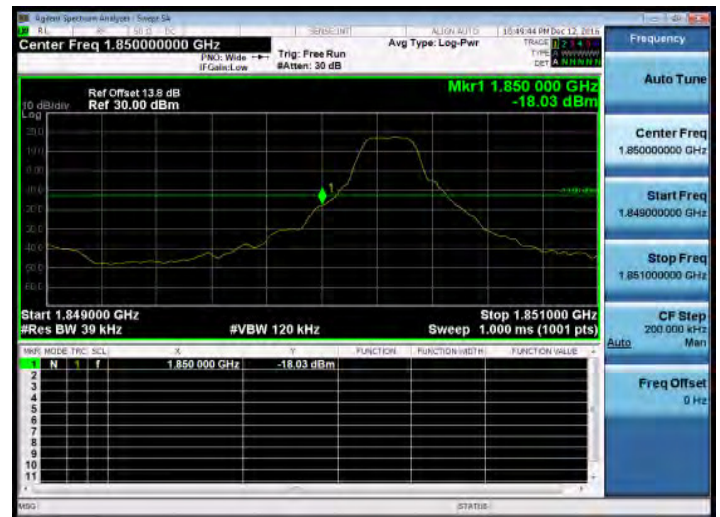
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Band Edge_Band2_1.4MHz_QPSK_1_5_HighCH19193-1909.3



Band Edge_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



Band Edge_Band2_1.4MHz_QPSK_6_0_LowCH18607-1850.7



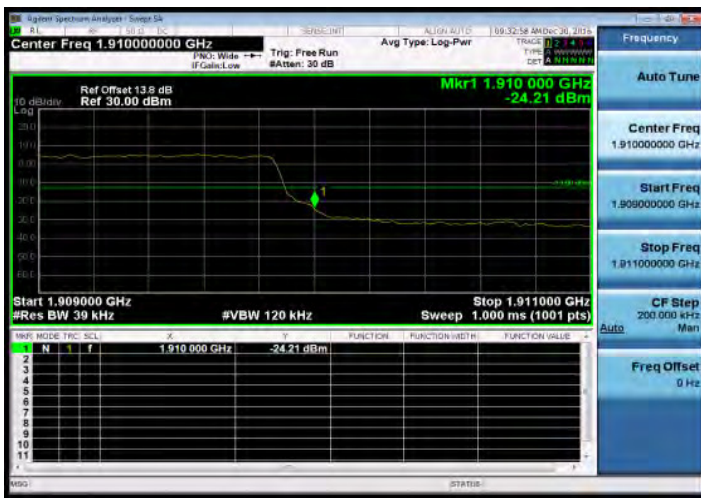
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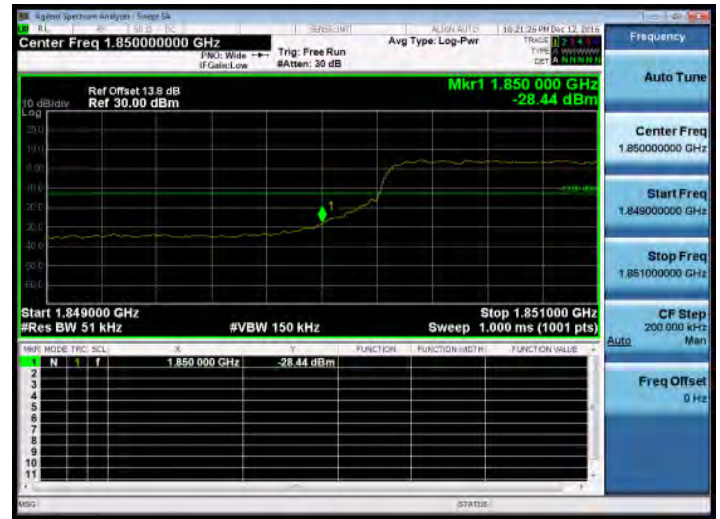
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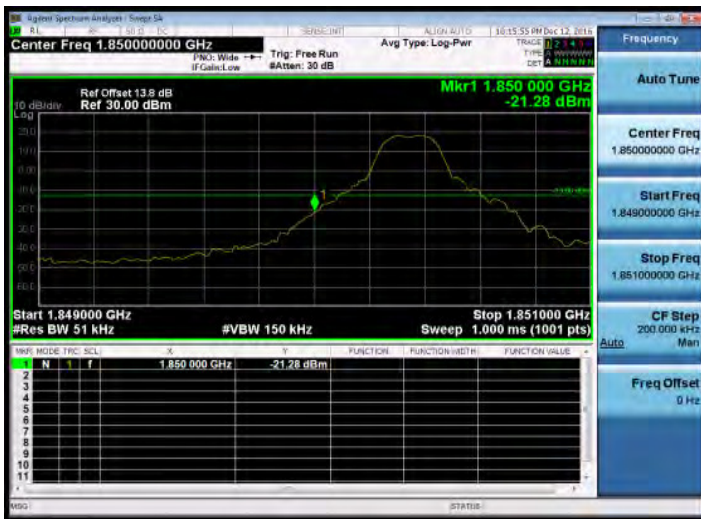
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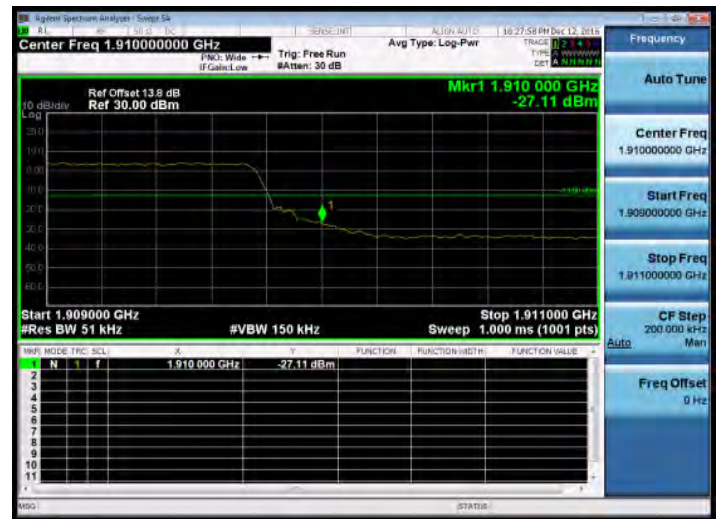
Band Edge_Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



Band Edge_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



Band Edge_Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



Band Edge_Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



Band Edge_Band2_10MHz_QPSK_1_0_LowCH18650-1855



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Band Edge_Band2_10MHz_QPSK_1_49_HighCH19150-1905



Band Edge_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



Band Edge_Band2_10MHz_QPSK_50_0_LowCH18650-1855



Band Edge_Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



Band Edge_Band2_10MHz_QPSK_50_0_HighCH19150-1905



Band Edge_Band2_15MHz_QPSK_75_0_LowCH18675-1857.5



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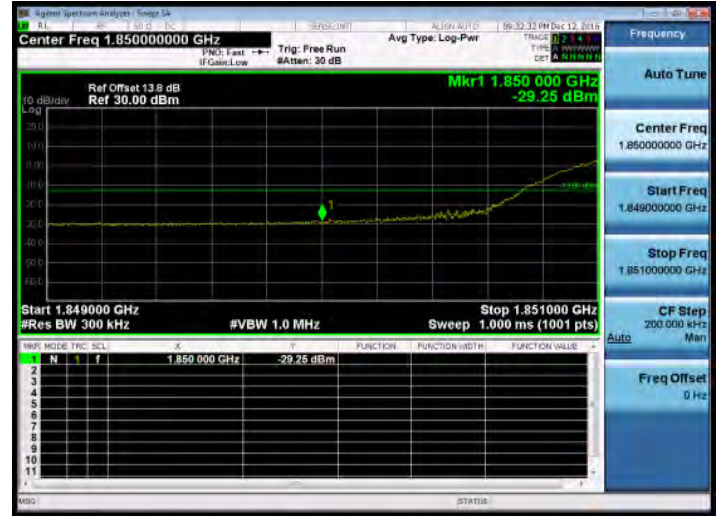
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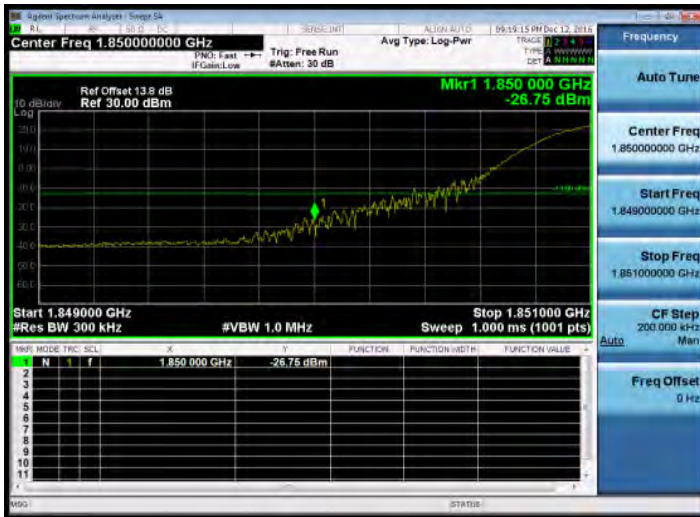
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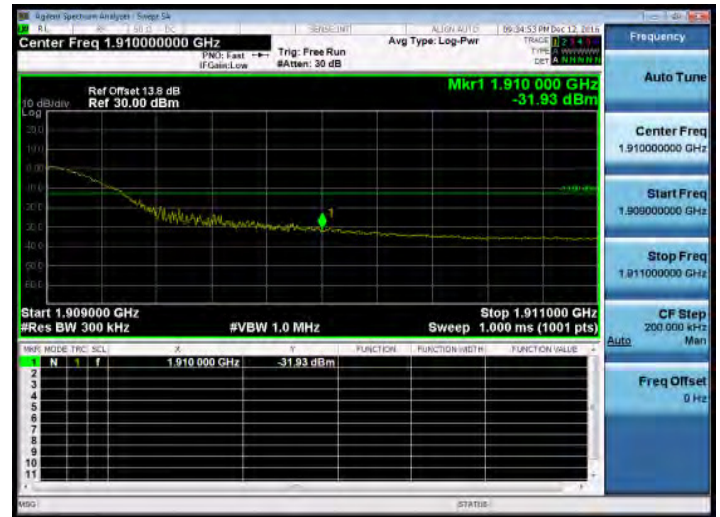
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Band Edge_Band2_20MHz_QPSK_1_0_LowCH18700-1860



Band Edge_Band2_20MHz_QPSK_100_0_HighCH19100-1900



Band Edge_Band2_20MHz_QPSK_1_99_HighCH19100-1900



Band Edge_Band4_1.4MHz_QPSK_1_0_LowCH19957-1710.7



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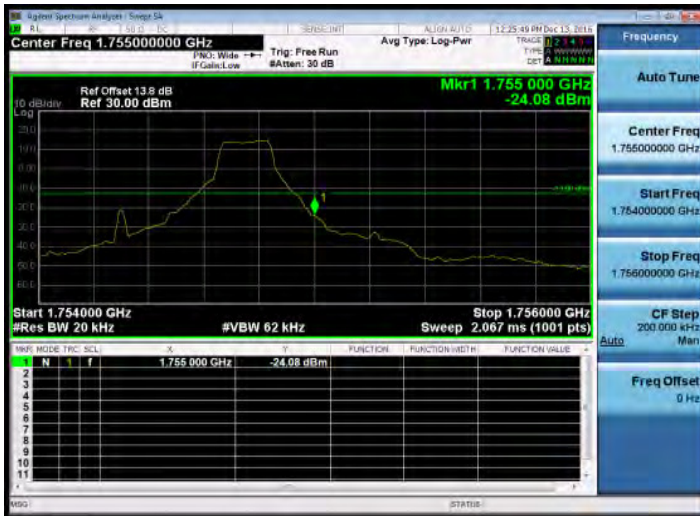
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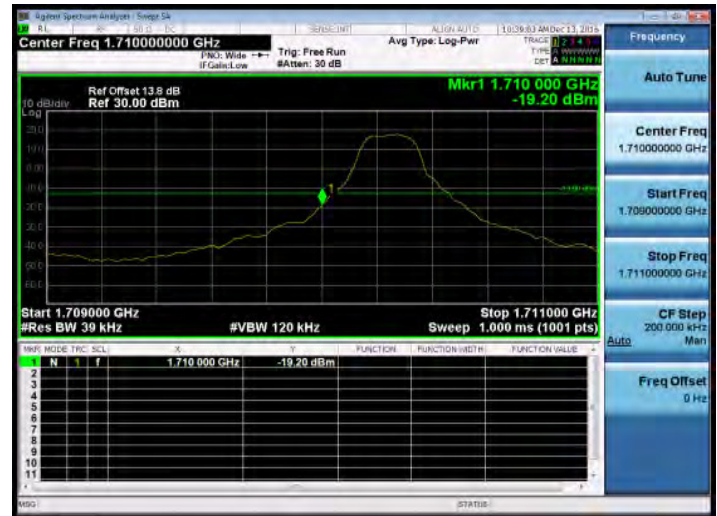
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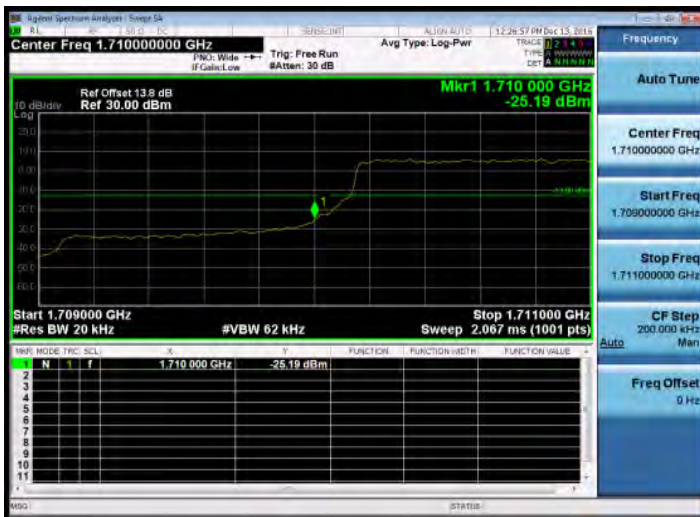
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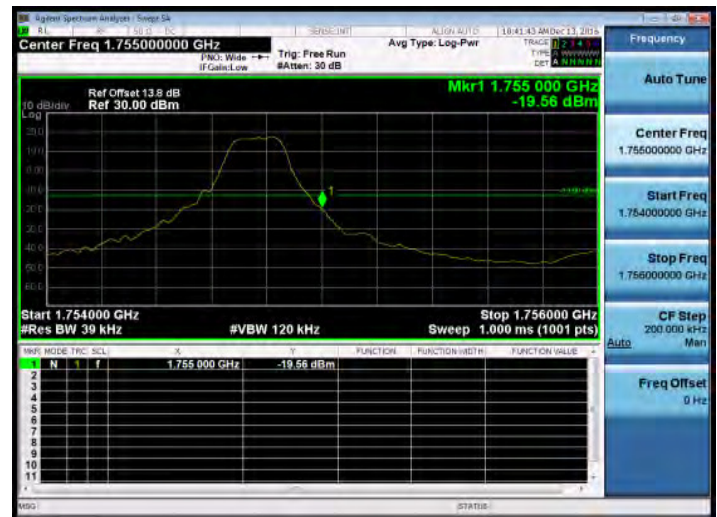
Band Edge_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



Band Edge_Band4_1.4MHz_QPSK_6_0_LowCH19957-1710.7



Band Edge_Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



Band Edge_Band4_1.4MHz_QPSK_6_0_HighCH20393-1754.3



Band Edge_Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



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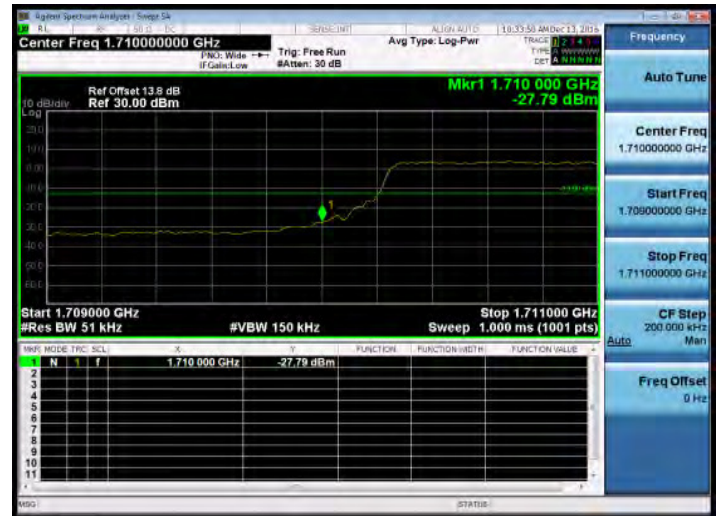
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Band Edge_Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



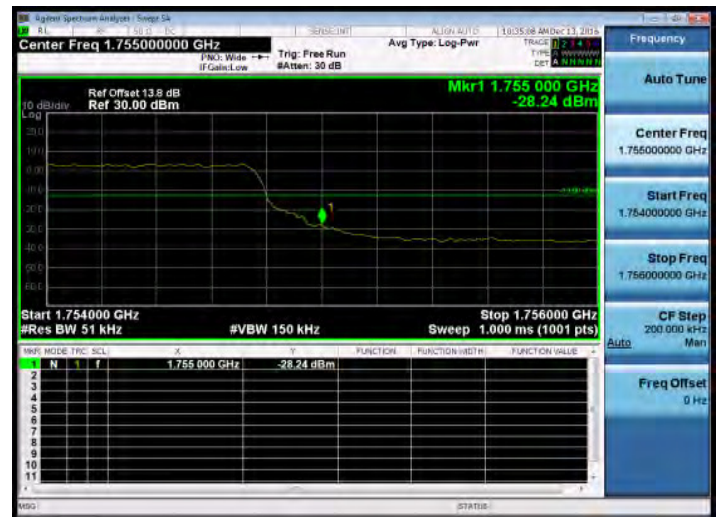
Band Edge_Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



Band Edge_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



Band Edge_Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



Band Edge_Band4_5MHz_QPSK_1_24_HighCH20375-1752.5



Band Edge_Band4_10MHz_QPSK_1_0_LowCH20000-1715



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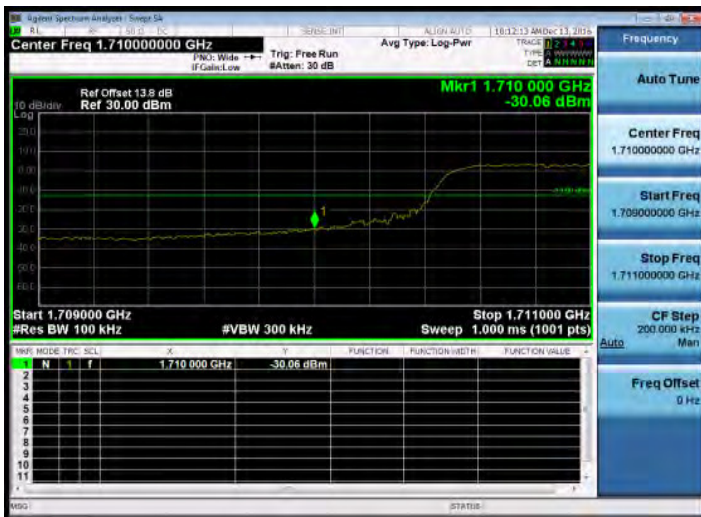
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Band Edge_Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



Band Edge_Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band Edge_Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



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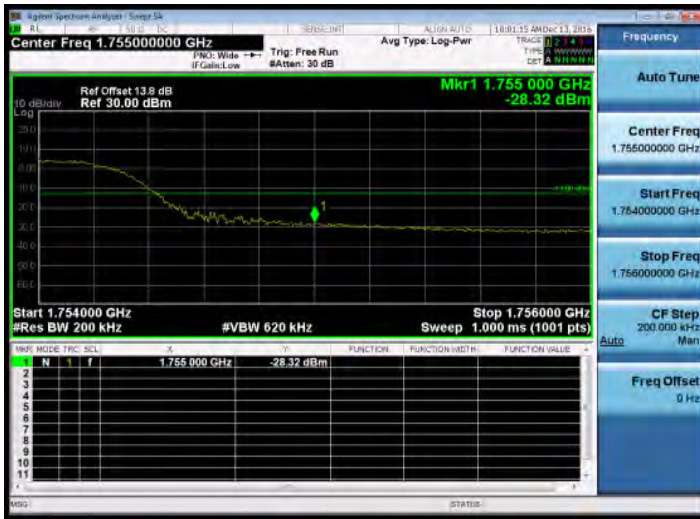
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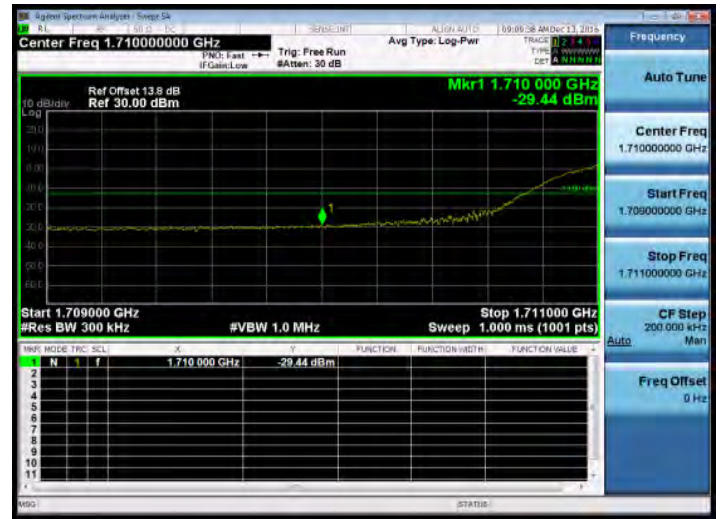
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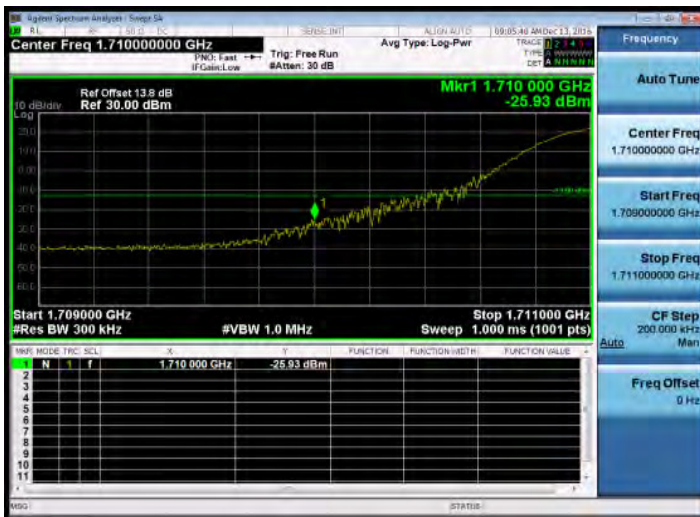
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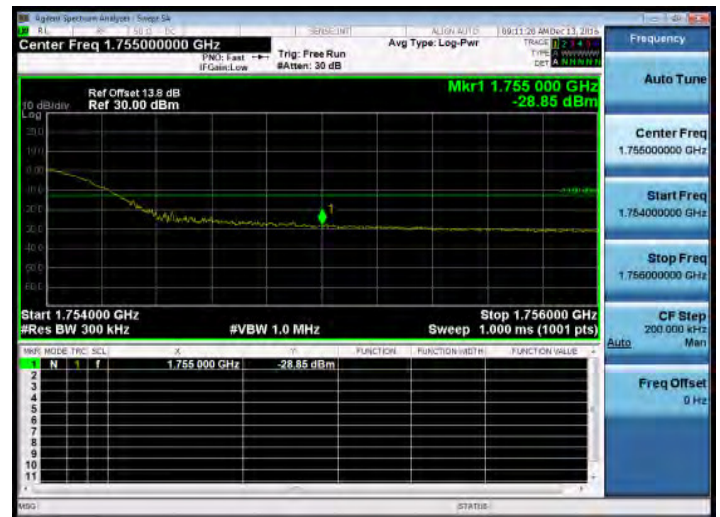
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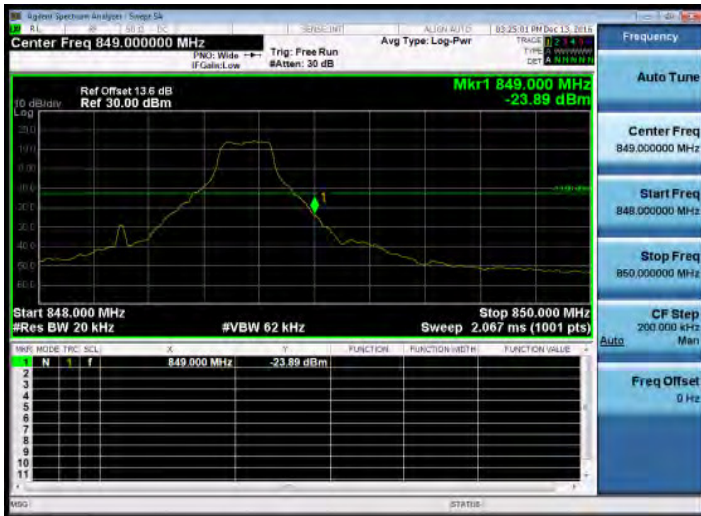
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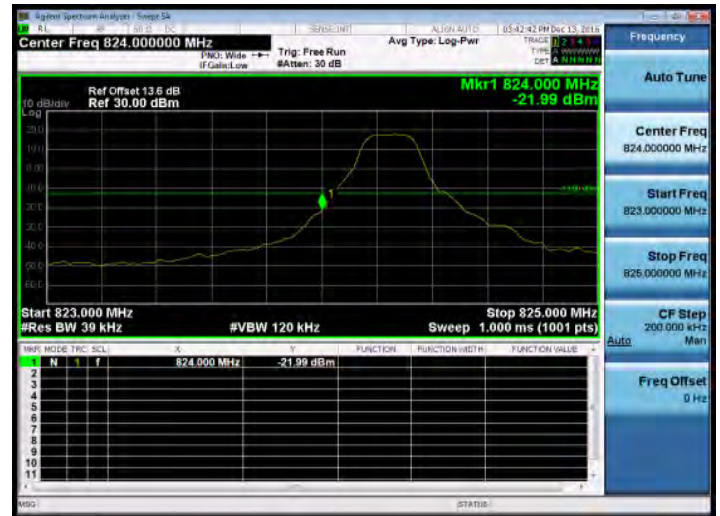
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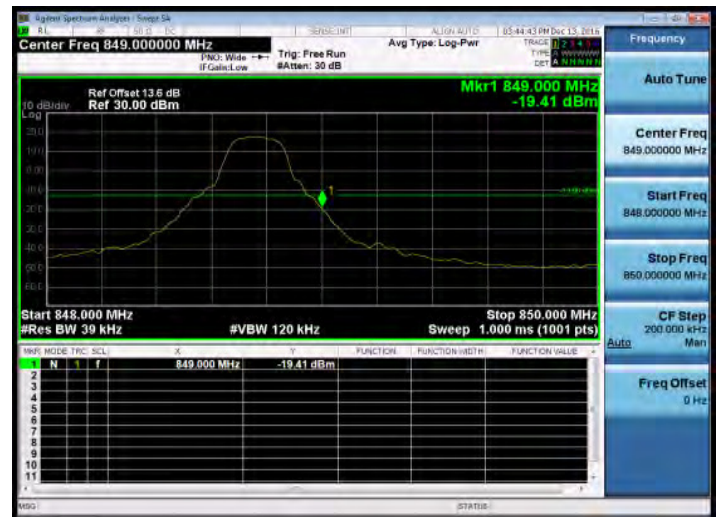
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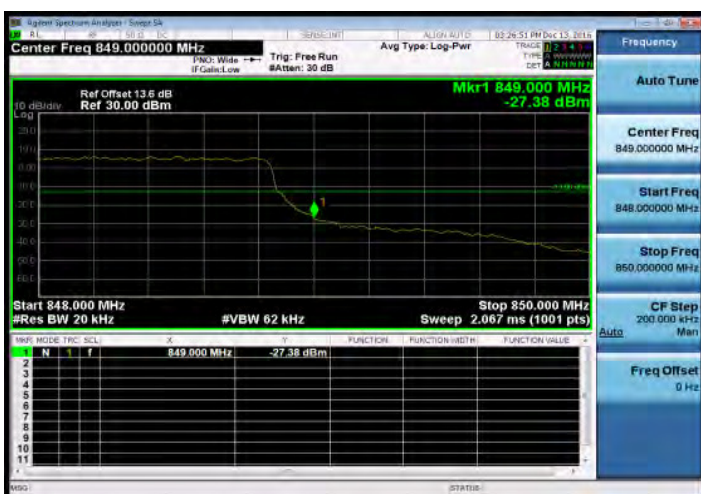
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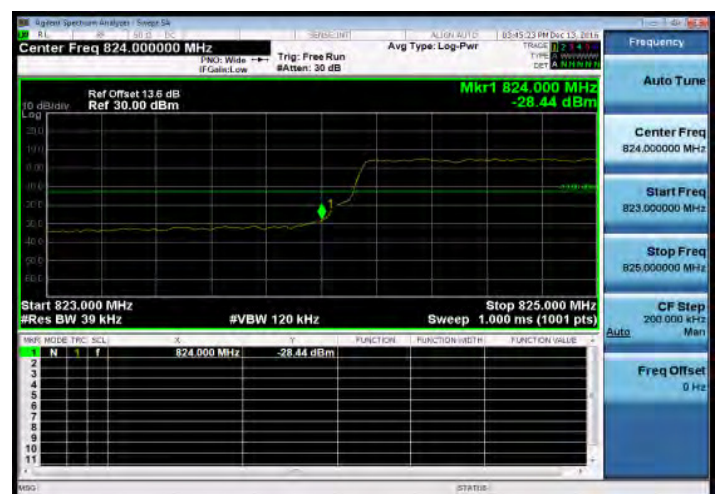
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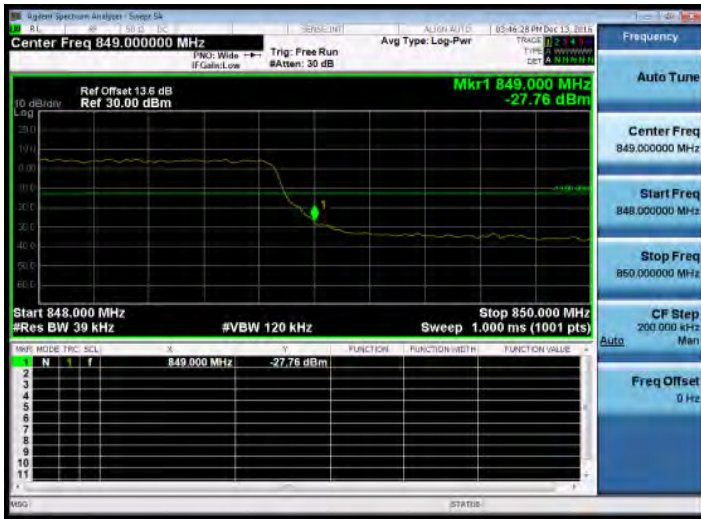


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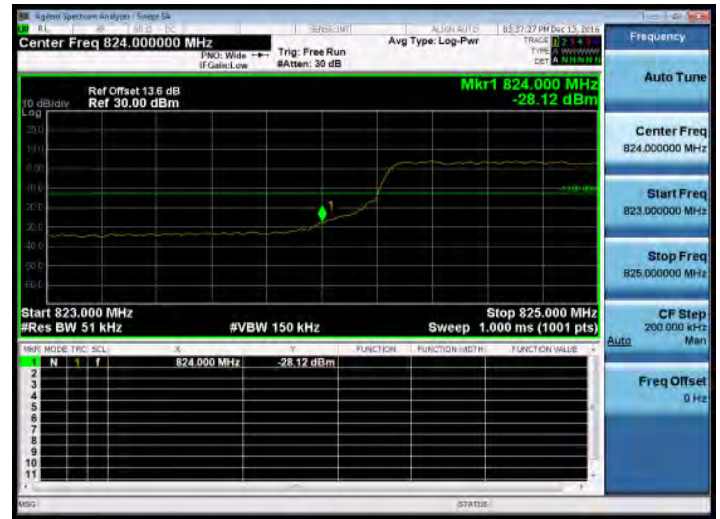
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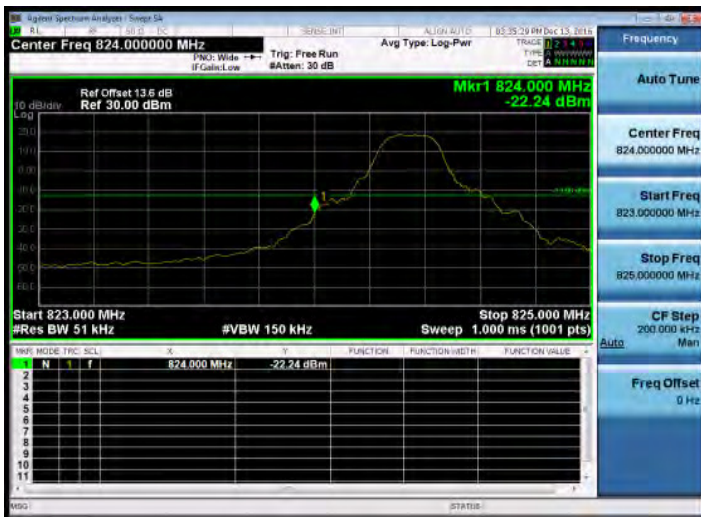
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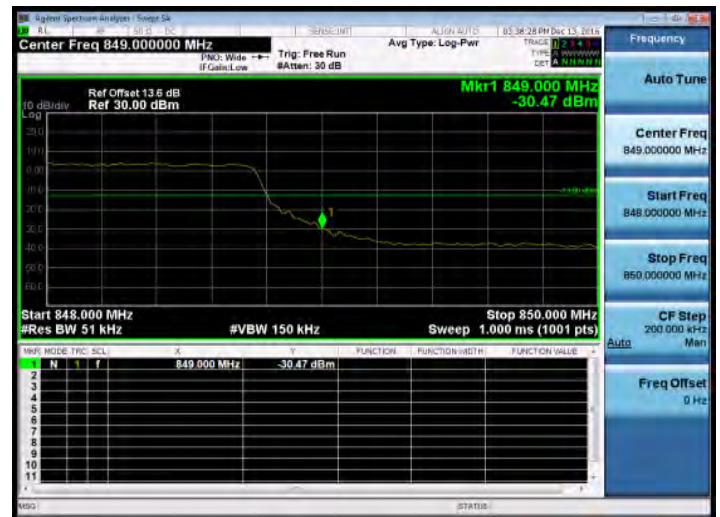
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Band Edge_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



Band Edge_Band5_5MHz_QPSK_25_0_HighCH20625-846.5



Band Edge_Band5_5MHz_QPSK_1_24_HighCH20625-846.5



Band Edge_Band5_10MHz_QPSK_1_0_LowCH20450-829



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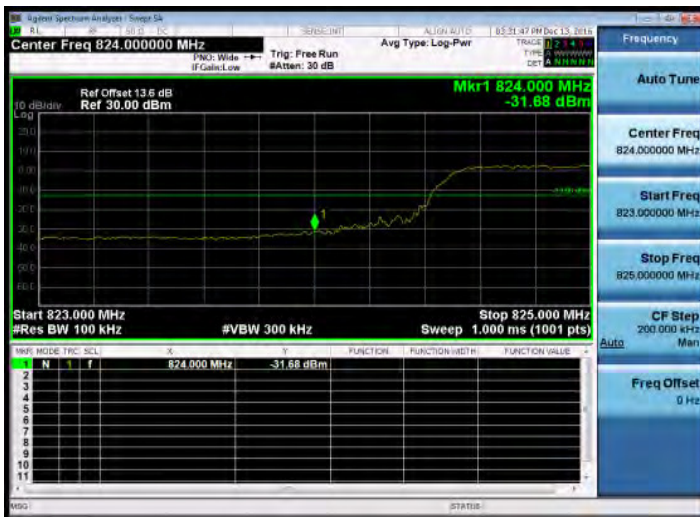
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Band Edge_Band12_1.4MHz_QPSK_1_0_LowCH23017-699.7



Band Edge_Band5_10MHz_QPSK_50_0_LowCH20450-829



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Band Edge_Band5_10MHz_QPSK_50_0_HighCH20600-844



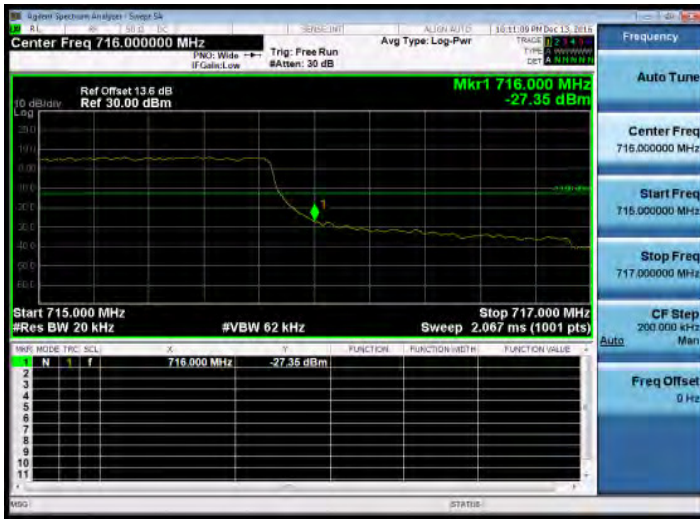
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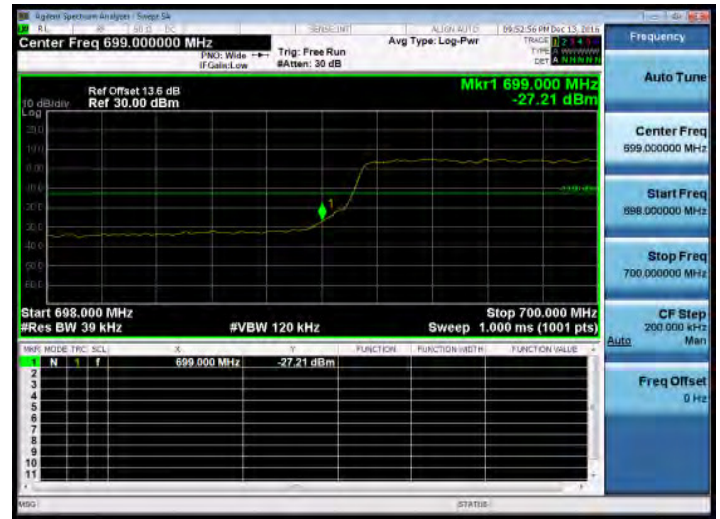
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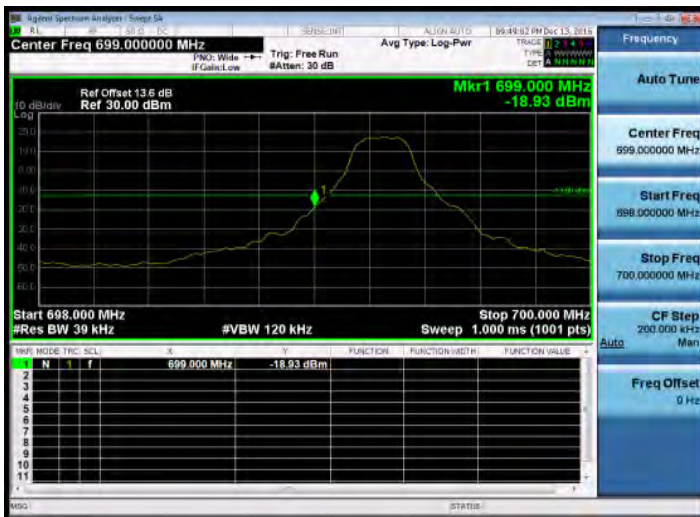
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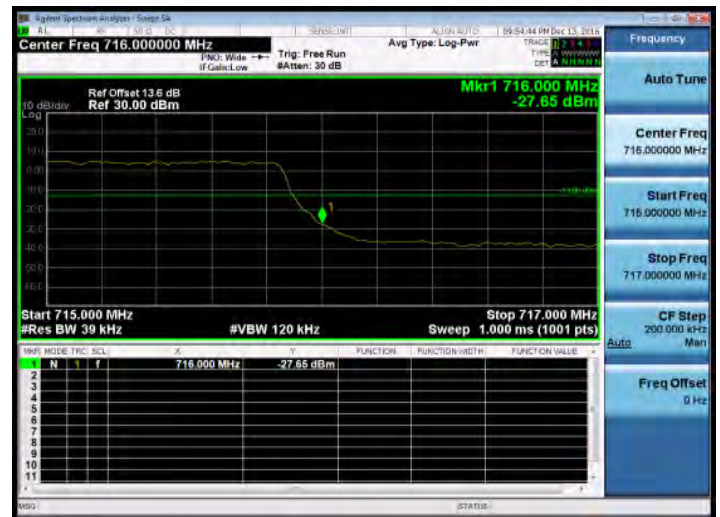
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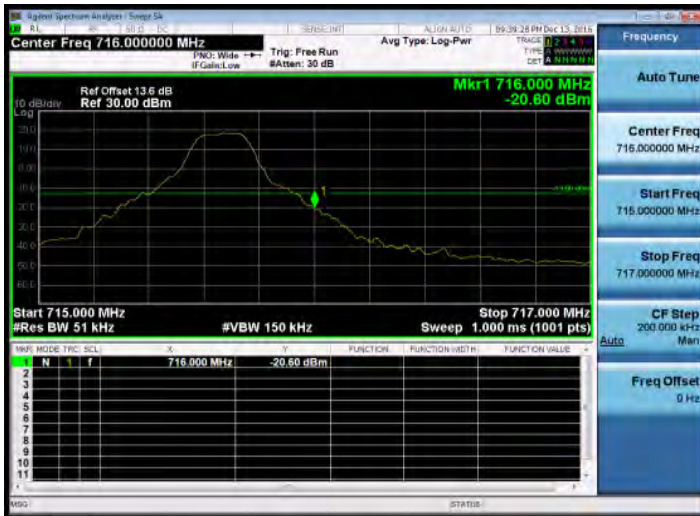
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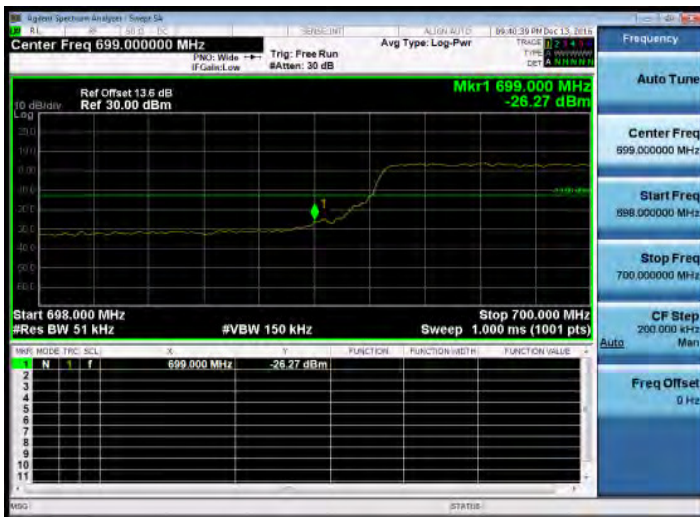
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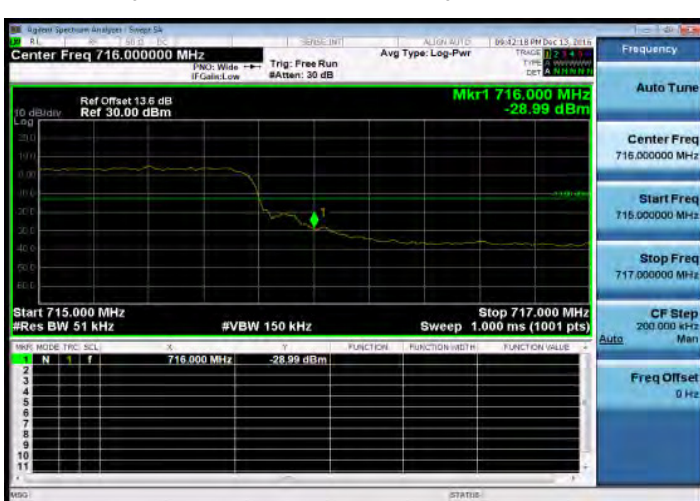
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Band Edge_Band12_10MHz_QPSK_1_49_HighCH23130-711



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Band Edge_Band12_10MHz_QPSK_50_0_LowCH23060-704



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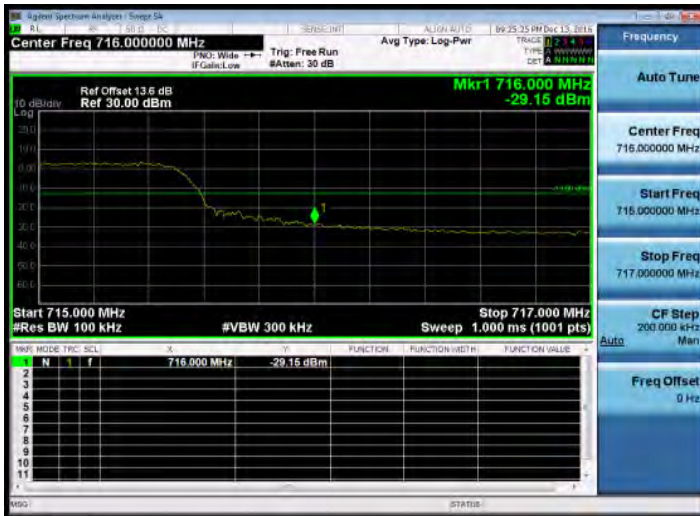
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Band Edge_Band12_10MHz_QPSK_50_0_HighCH23130-711



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

FCC §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log$ (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log$ (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ ^{Note}
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ ^{Note}
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

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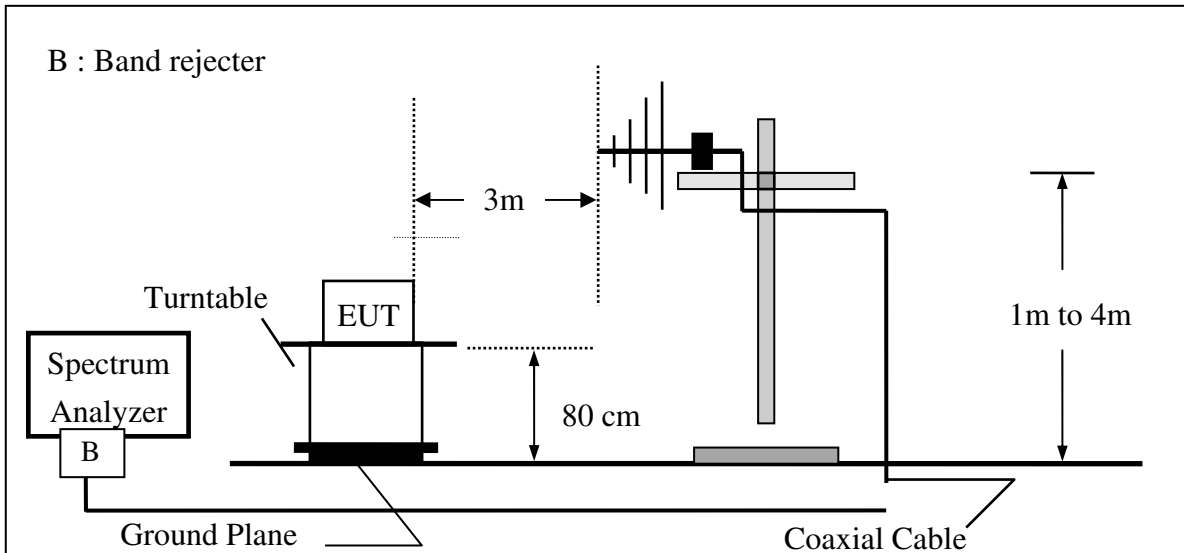
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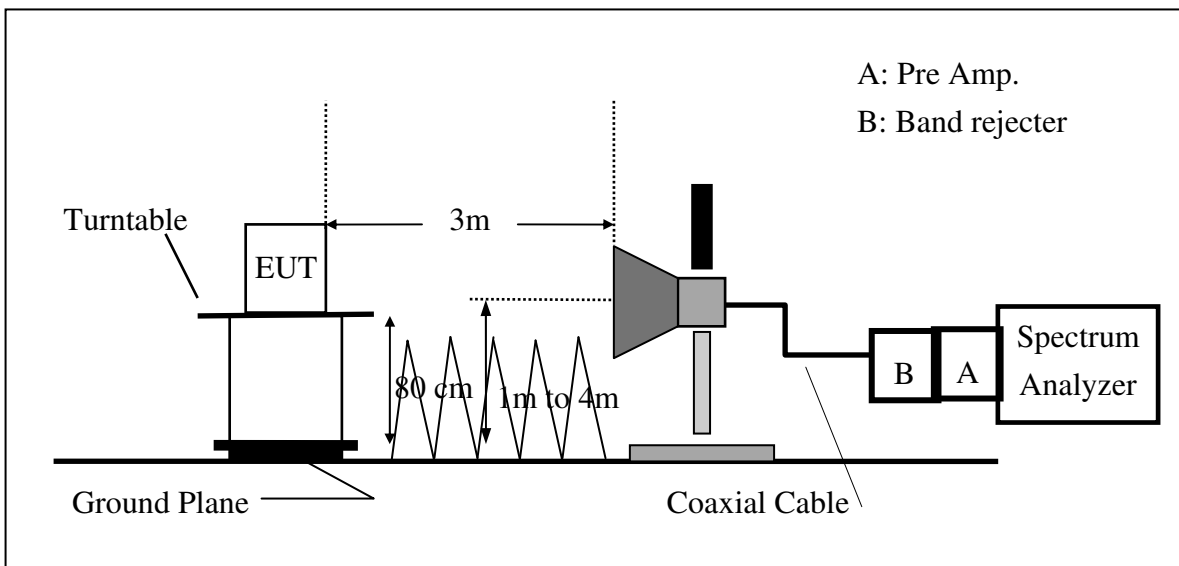
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017

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EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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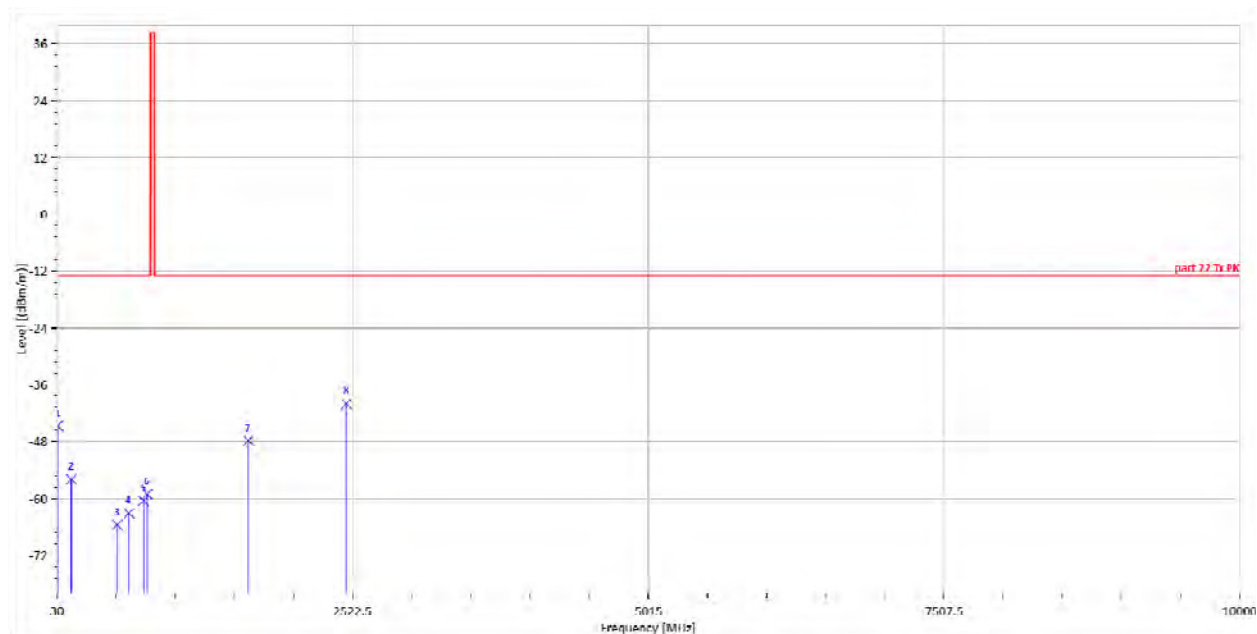
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode :	2G850	Test Date :	2016/12/22
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-44.67	-28.16	-15.82	-0.70	-13	-31.67
151.25	S	-56.00	-55.21	0.51	-1.31	-13	-43.00
537.31	S	-65.62	-67.26	4.26	-2.62	-13	-52.62
637.22	S	-63.11	-64.98	4.87	-3.00	-13	-50.11
761.38	S	-60.53	-62.77	5.48	-3.24	-13	-47.53
792.42	S	-59.11	-61.33	5.51	-3.29	-13	-46.11
1644.00	H	-47.82	-49.84	6.74	-4.71	-13	-34.82
2470.00	H	-40.03	-42.42	8.23	-5.84	-13	-27.03

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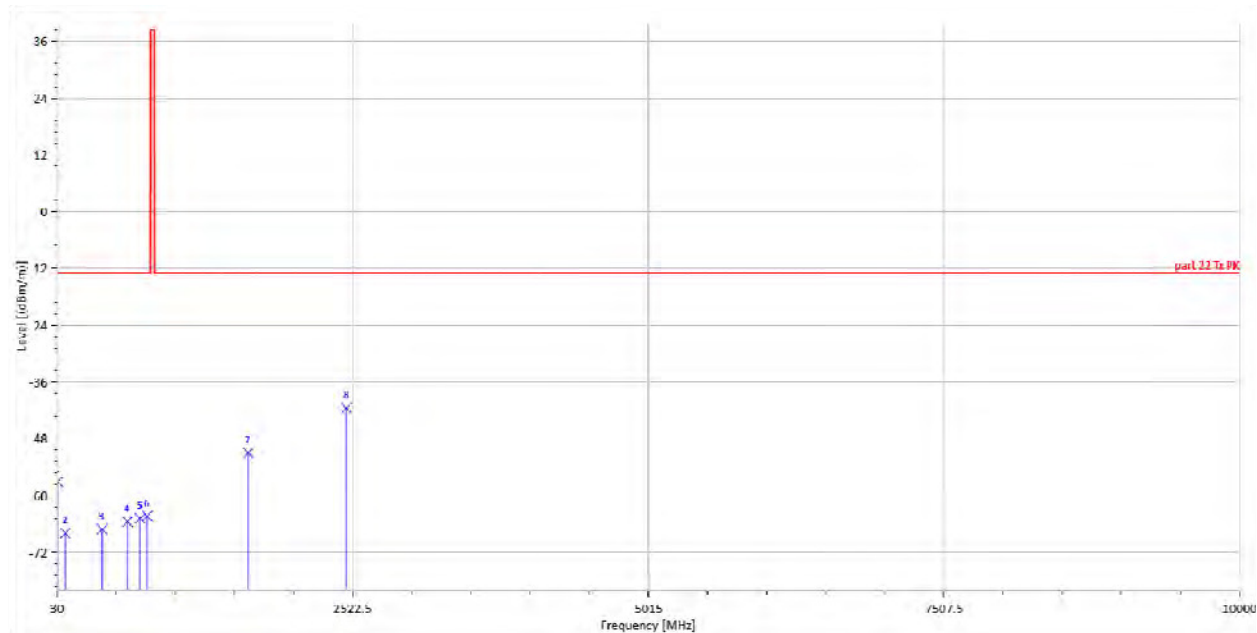
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Operation Mode :	2G850	Test Date :	2016/12/22
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
35.82	S	-57.05	-38.93	-17.39	-0.73	-13	-44.05
100.81	S	-67.92	-63.67	-3.07	-1.17	-13	-54.92
411.21	S	-67.16	-68.69	3.72	-2.19	-13	-54.16
624.61	S	-65.48	-67.14	4.82	-3.16	-13	-52.48
730.34	S	-64.83	-66.98	5.46	-3.31	-13	-51.83
791.45	S	-64.30	-66.39	5.51	-3.42	-13	-51.30
1644.00	H	-50.96	-52.98	6.74	-4.71	-13	-37.96
2470.00	H	-41.50	-43.89	8.23	-5.84	-13	-28.50

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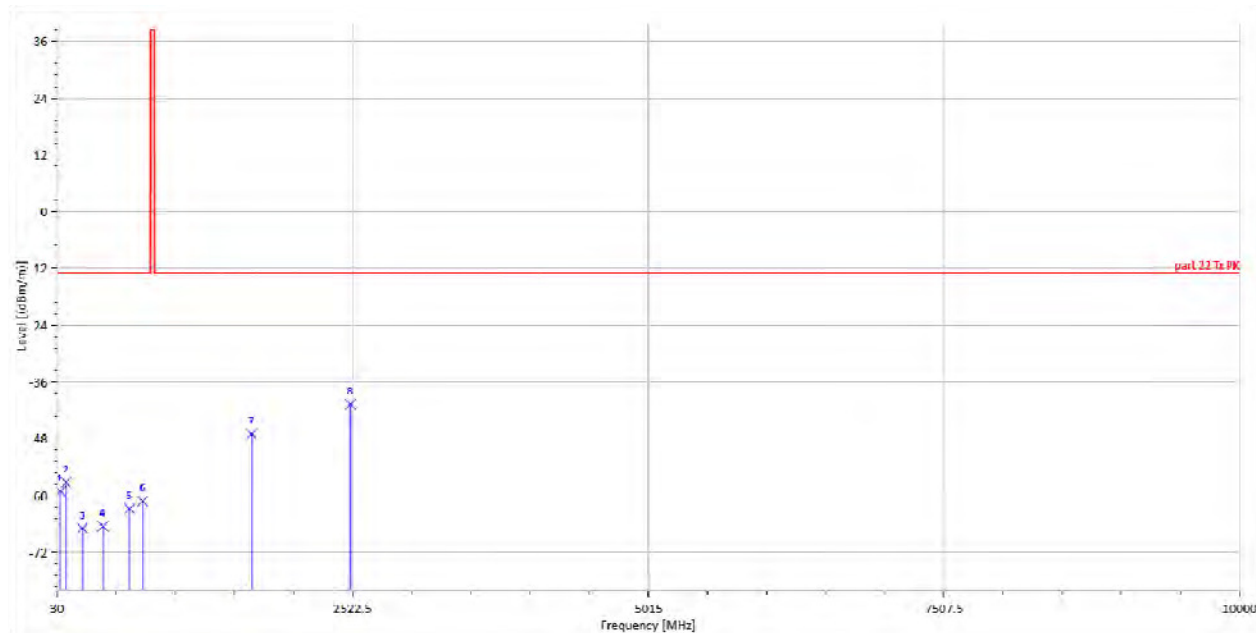
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Operation Mode : 2G850 Test Date : 2016/12/22
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 22.3deg_C/64RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



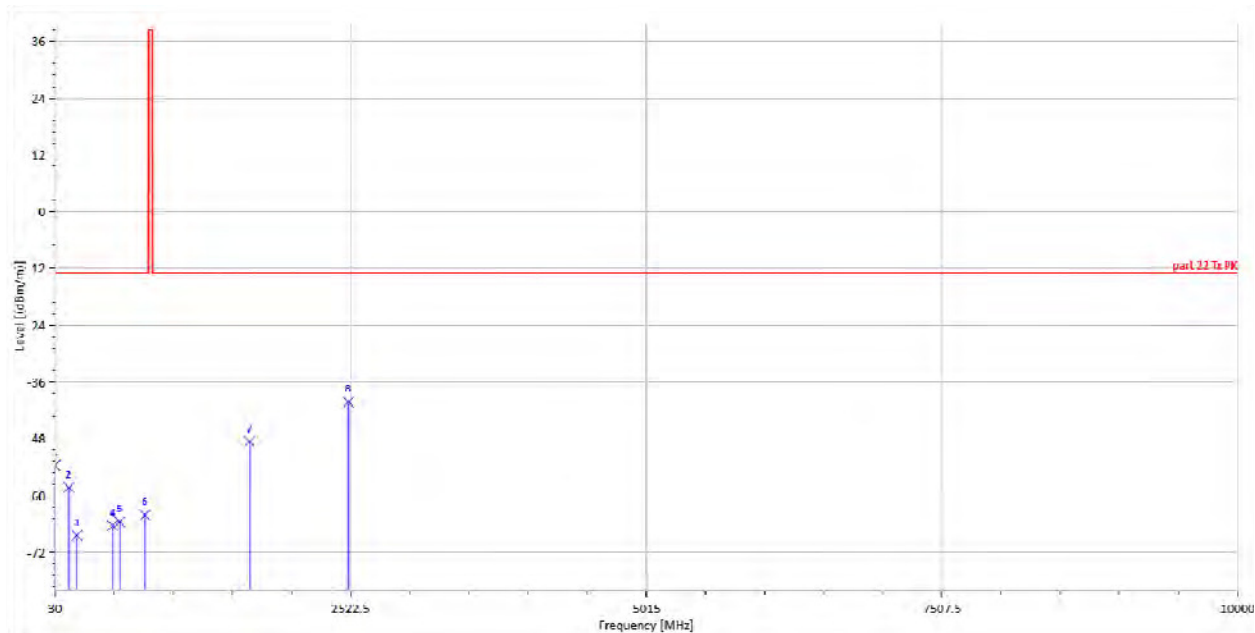
Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
59.10	S	-59.05	-54.75	-3.44	-0.87	-13	-46.05
106.63	S	-57.23	-52.73	-3.29	-1.21	-13	-44.23
245.34	S	-66.88	-68.39	3.33	-1.82	-13	-53.88
418.97	S	-66.48	-67.83	3.80	-2.45	-13	-53.48
642.07	S	-62.77	-64.92	4.89	-2.74	-13	-49.77
752.65	S	-61.15	-63.51	5.46	-3.11	-13	-48.15
1672.00	H	-46.95	-49.01	6.83	-4.78	-13	-33.95
2505.00	H	-40.68	-43.05	8.26	-5.89	-13	-27.68

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Operation Mode : 2G850 Test Date : 2016/12/22
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 22.3deg_C/64RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-53.63	-31.42	-21.56	-0.65	-13	-40.63
147.37	S	-58.31	-56.93	0.01	-1.40	-13	-45.31
214.30	S	-68.39	-70.80	4.12	-1.71	-13	-55.39
515.97	S	-66.33	-68.22	4.25	-2.35	-13	-53.33
576.11	S	-65.54	-67.36	4.51	-2.69	-13	-52.54
790.48	S	-64.09	-66.09	5.51	-3.52	-13	-51.09
1672.00	H	-48.55	-50.60	6.83	-4.78	-13	-35.55
2505.00	H	-40.20	-42.57	8.26	-5.89	-13	-27.20

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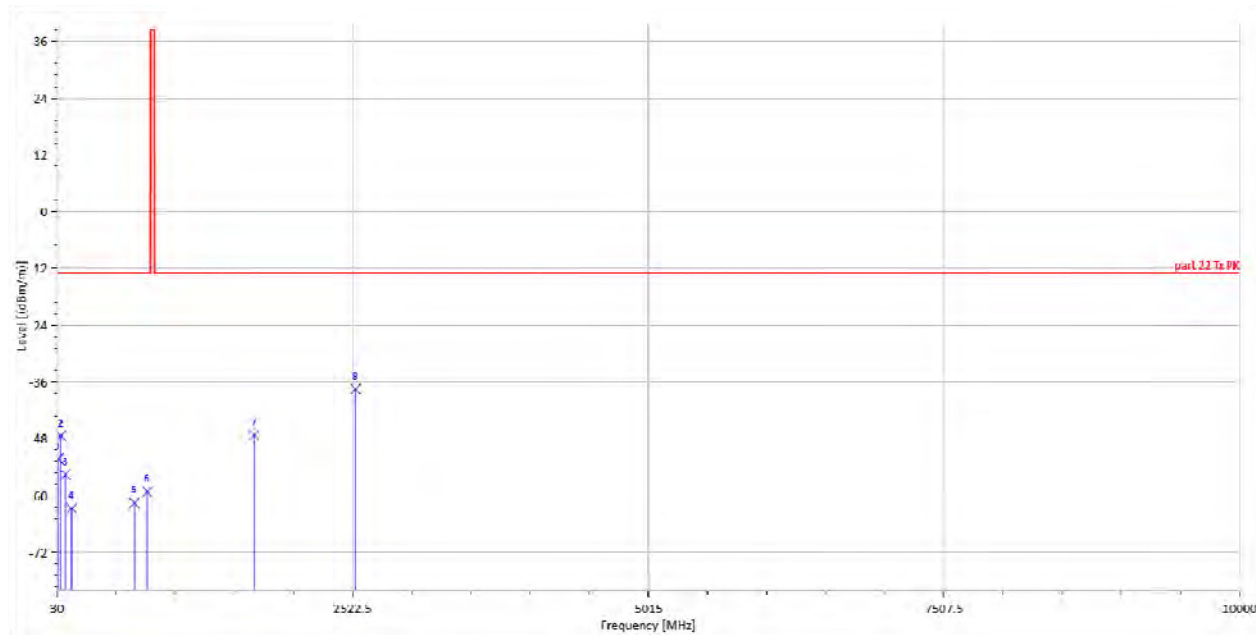
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Operation Mode : 2G850 Test Date : 2016/12/22
 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 22.3deg_C/64RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
38.73	S	-52.22	-36.49	-15.03	-0.70	-13	-39.22
62.01	S	-47.40	-43.60	-2.81	-1.00	-13	-34.40
100.81	S	-55.56	-51.31	-3.07	-1.17	-13	-42.56
154.16	S	-62.76	-62.00	0.82	-1.58	-13	-49.76
683.78	S	-61.52	-63.81	5.29	-3.00	-13	-48.52
792.42	S	-59.12	-61.35	5.51	-3.29	-13	-46.12
1693.00	H	-47.28	-49.39	6.91	-4.80	-13	-34.28
2547.00	H	-37.47	-39.89	8.33	-5.91	-13	-24.47

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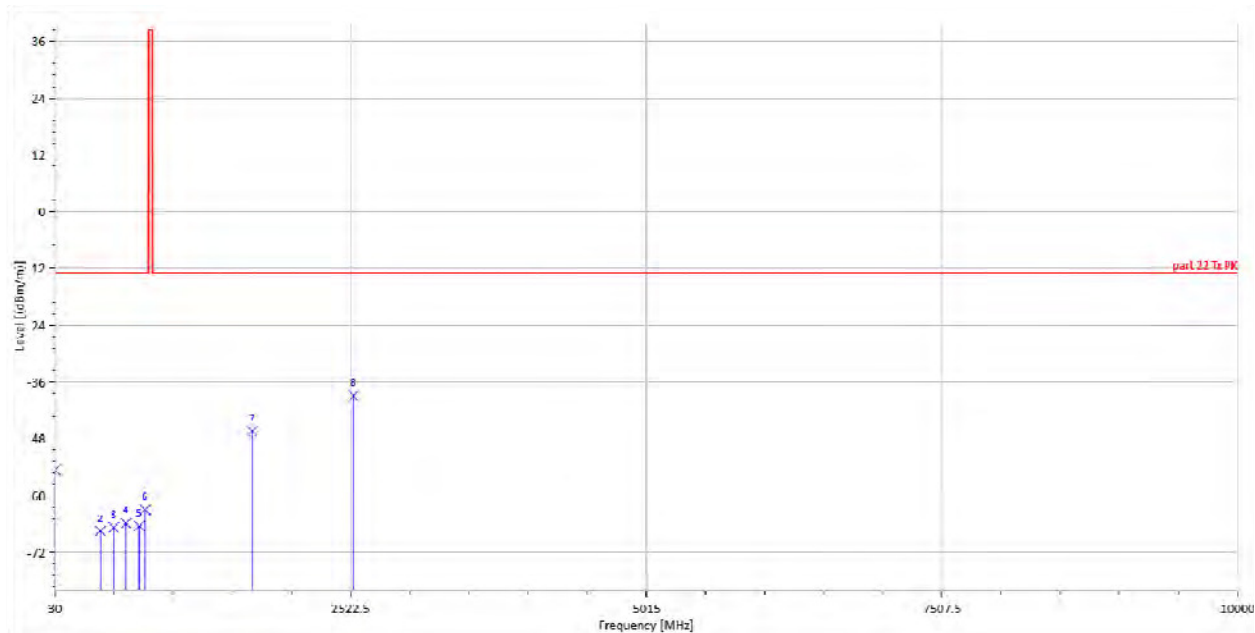
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Operation Mode : 2G850 Test Date : 2016/12/22
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 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-54.54	-32.34	-21.56	-0.65	-13	-41.54
414.12	S	-67.45	-68.96	3.75	-2.24	-13	-54.45
525.67	S	-66.73	-68.63	4.25	-2.36	-13	-53.73
628.49	S	-65.83	-67.73	4.83	-2.93	-13	-52.83
741.01	S	-66.40	-68.68	5.46	-3.19	-13	-53.40
790.48	S	-62.96	-64.96	5.51	-3.52	-13	-49.96
1693.00	H	-46.38	-48.49	6.91	-4.80	-13	-33.38
2547.00	H	-38.92	-41.34	8.33	-5.91	-13	-25.92

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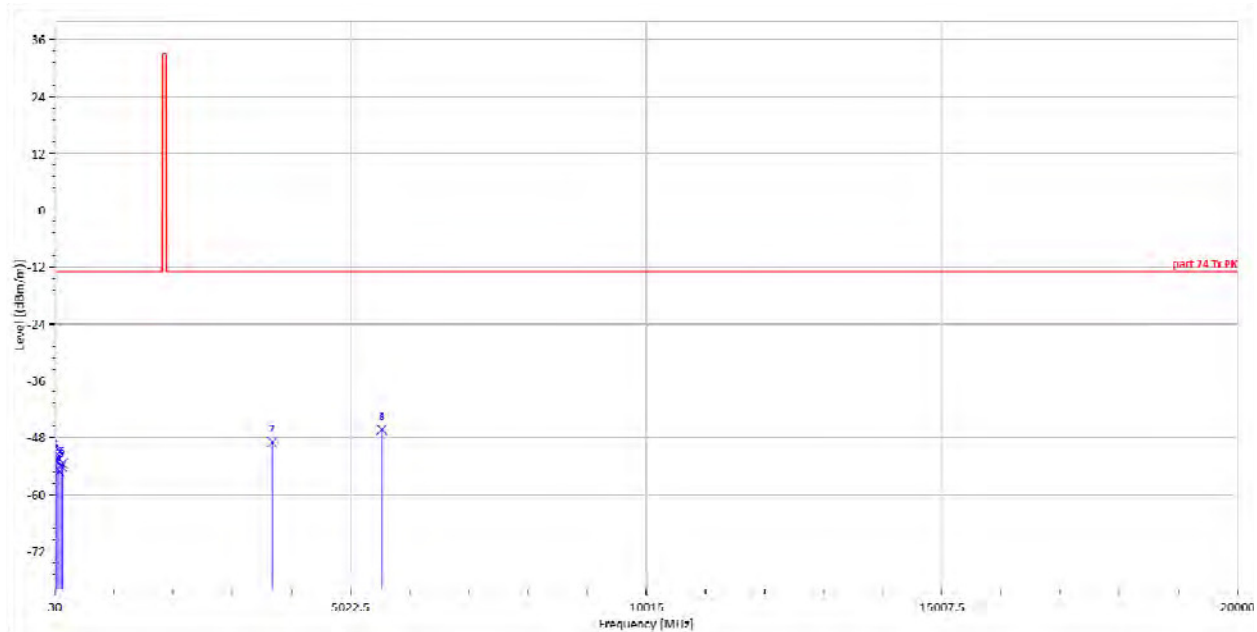
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
59.10	S	-36.67	-34.52	-1.29	-0.87	-13.01	-23.66
66.86	S	-47.13	-46.17	-0.01	-0.95	-13.01	-34.12
172.59	S	-44.92	-48.31	4.98	-1.58	-13.01	-31.91
211.39	S	-40.16	-44.58	6.12	-1.71	-13.01	-27.15
268.62	S	-53.25	-56.61	5.32	-1.96	-13.01	-40.24
349.13	S	-58.89	-62.70	5.89	-2.08	-13.01	-45.88
3700.40	H	-49.43	-54.58	12.30	-7.15	-13.01	-36.42
5550.60	H	-40.22	-44.14	12.62	-8.70	-13.01	-27.21

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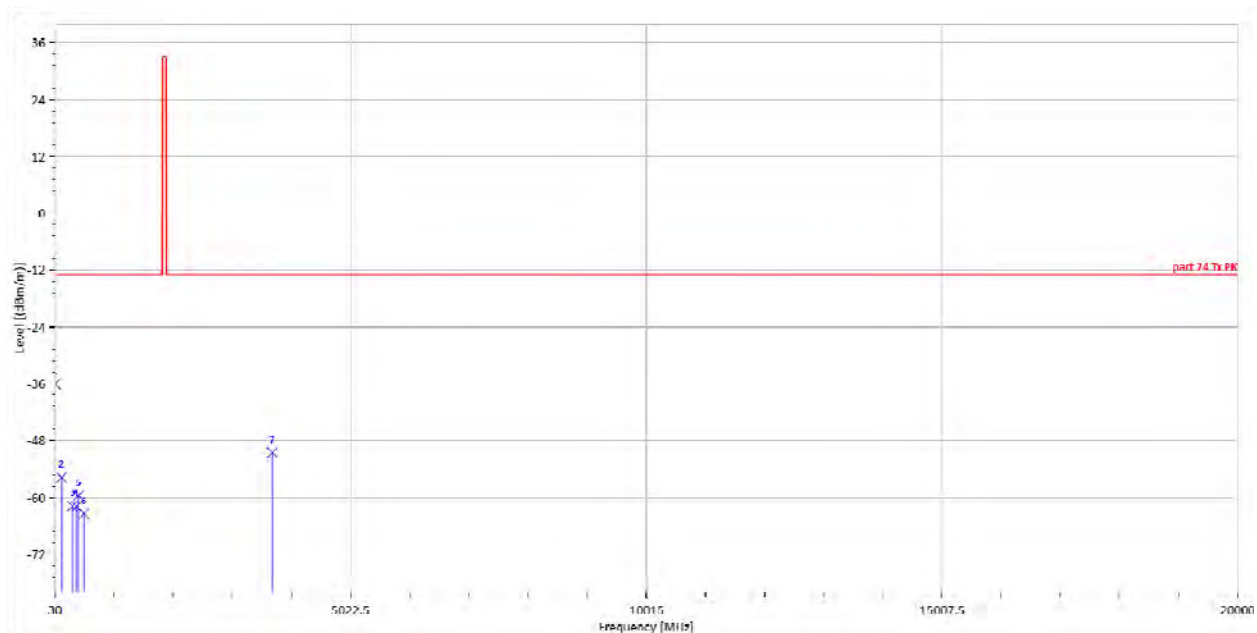
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Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
34.85	S	-36.03	-19.29	-16.04	-0.71	-13.01	-23.02
142.52	S	-55.82	-56.00	1.49	-1.31	-13.01	-42.81
324.88	S	-61.88	-65.58	5.92	-2.22	-13.01	-48.87
393.75	S	-61.95	-65.47	5.77	-2.24	-13.01	-48.94
429.64	S	-59.60	-63.28	6.06	-2.39	-13.01	-46.59
520.82	S	-63.43	-67.12	6.40	-2.71	-13.01	-50.42
3700.40	H	-50.56	-55.71	12.30	-7.15	-13.01	-37.55

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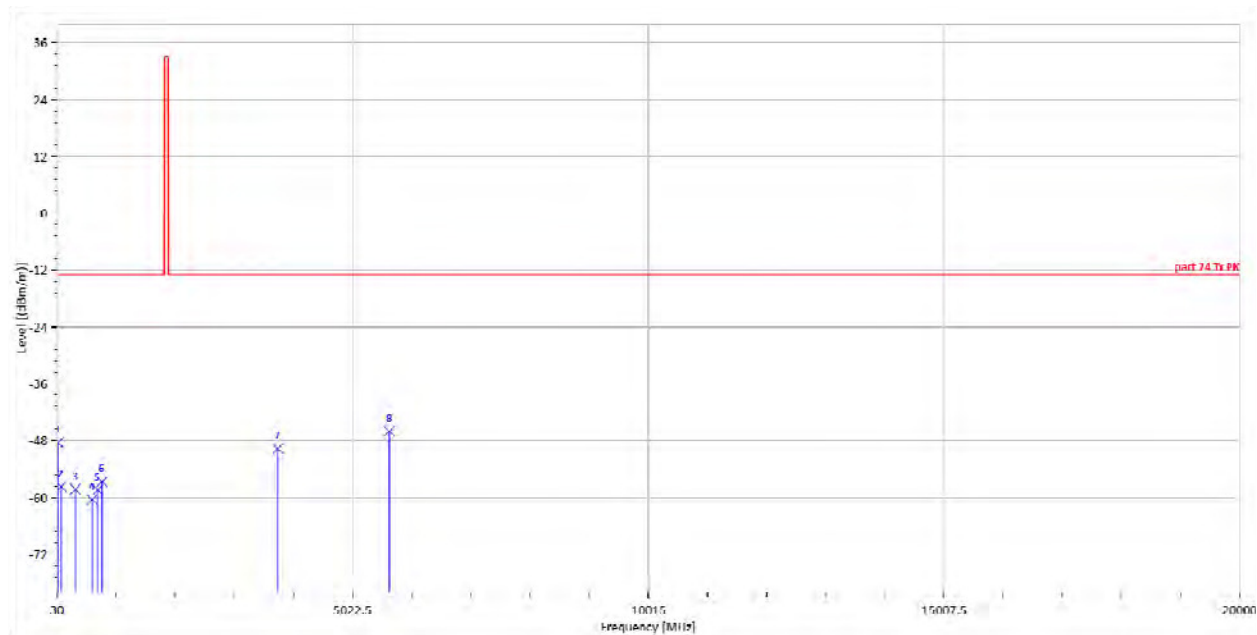
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Operation Mode : 2G1900 Test Date : 2016/12/22
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.3deg_C/64RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
51.34	S	-48.45	-43.24	-4.38	-0.83	-13.01	-35.44
100.81	S	-57.75	-55.65	-0.92	-1.17	-13.01	-44.74
342.34	S	-58.30	-61.98	5.90	-2.22	-13.01	-45.29
623.64	S	-60.49	-64.42	6.97	-3.04	-13.01	-47.48
719.67	S	-58.43	-62.83	7.61	-3.21	-13.01	-45.42
791.45	S	-56.70	-60.95	7.66	-3.42	-13.01	-43.69
3760.00	H	-49.71	-54.81	12.30	-7.21	-13.01	-36.70
5641.00	H	-46.02	-49.87	12.66	-8.81	-13.01	-33.01

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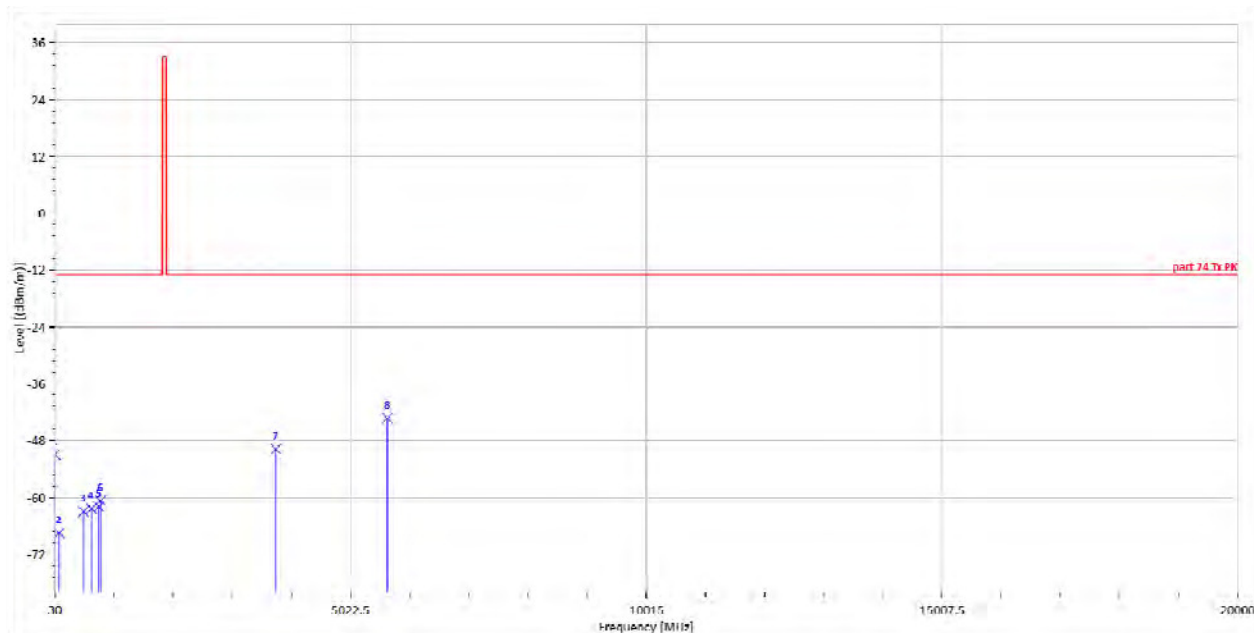
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Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-50.90	-30.84	-19.41	-0.65	-13.01	-37.89
98.87	S	-67.54	-65.59	-0.79	-1.16	-13.01	-54.53
513.06	S	-62.99	-66.67	6.40	-2.72	-13.01	-49.98
646.92	S	-62.39	-66.25	7.06	-3.19	-13.01	-49.38
772.05	S	-62.00	-66.31	7.64	-3.33	-13.01	-48.99
801.15	S	-60.74	-65.06	7.67	-3.35	-13.01	-47.73
3760.00	H	-49.85	-54.94	12.30	-7.21	-13.01	-36.84
5641.00	H	-43.30	-47.15	12.66	-8.81	-13.01	-30.29

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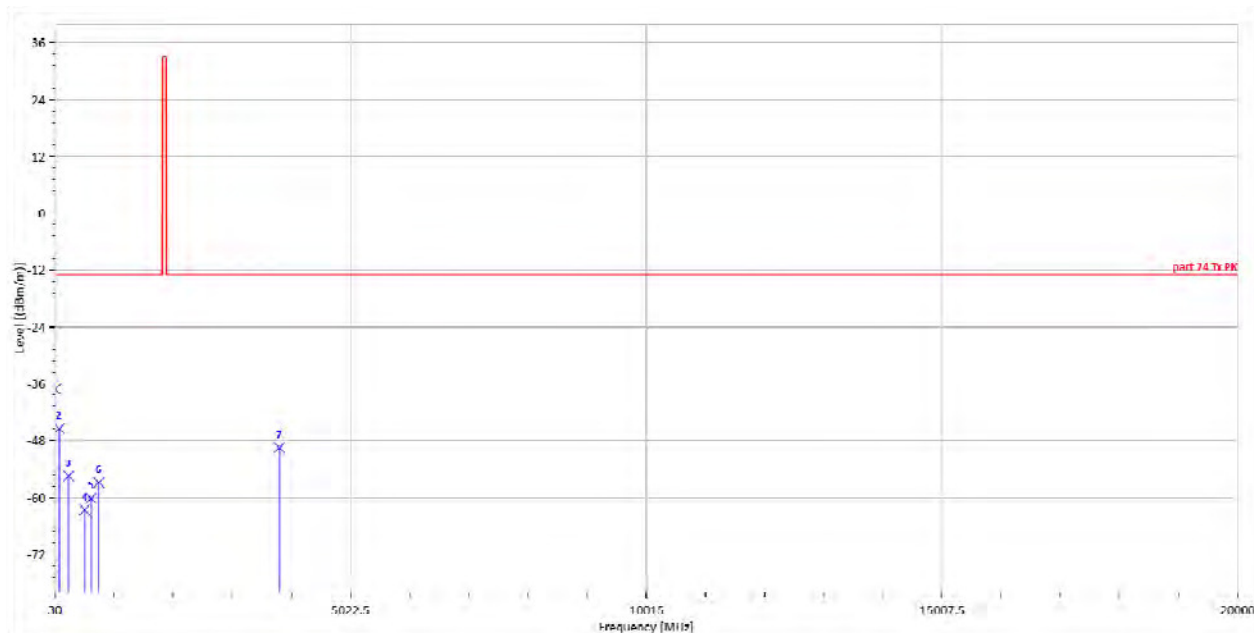
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Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1909.8 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
			dBm	dBi	dB	dBm/m	dB
38.73	S	-37.18	-23.60	-12.88	-0.70	-13.01	-24.17
102.75	S	-45.48	-43.30	-0.99	-1.19	-13.01	-32.47
260.86	S	-55.50	-58.30	4.68	-1.88	-13.01	-42.49
531.49	S	-62.66	-66.17	6.41	-2.89	-13.01	-49.65
640.13	S	-60.22	-64.58	7.03	-2.67	-13.01	-47.21
771.08	S	-56.87	-61.12	7.64	-3.38	-13.01	-43.86
3819.60	H	-49.53	-54.56	12.30	-7.27	-13.01	-36.52

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