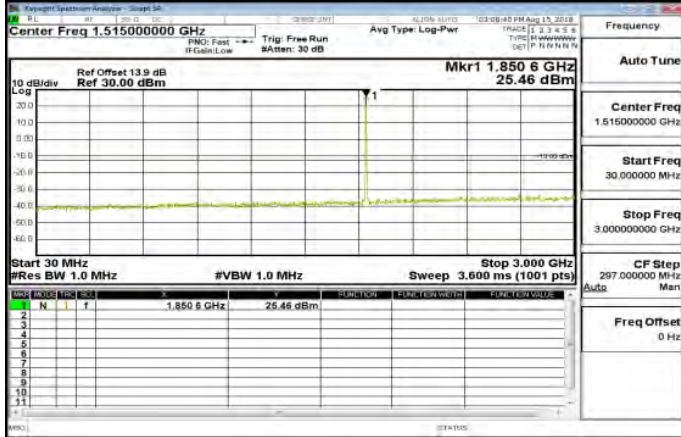
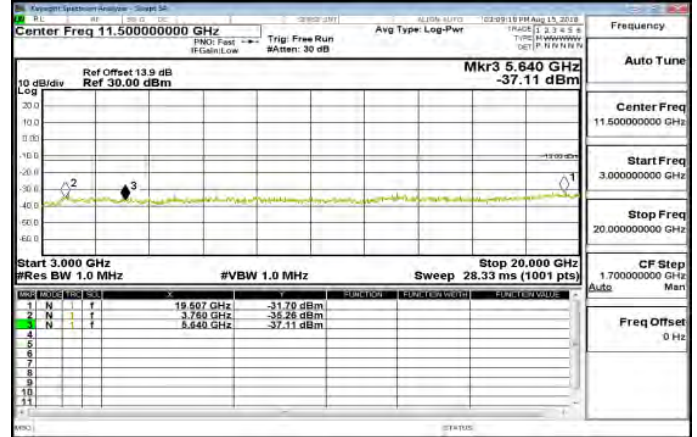


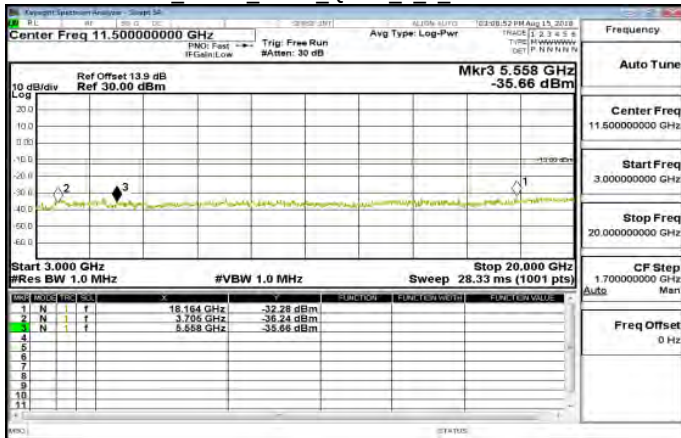
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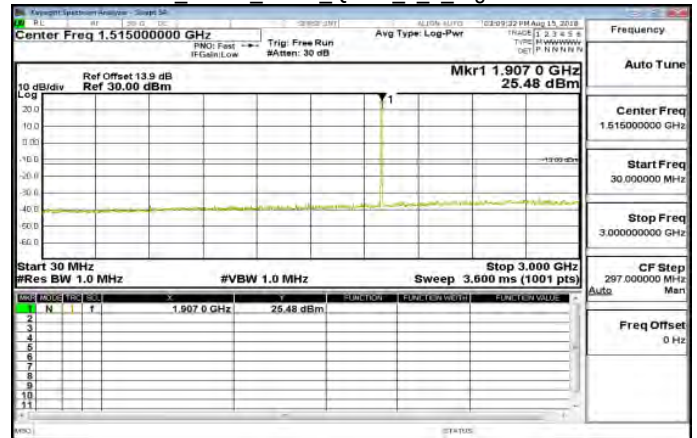
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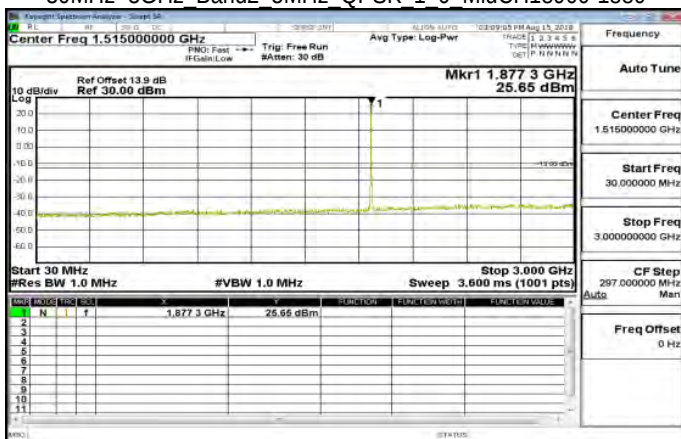
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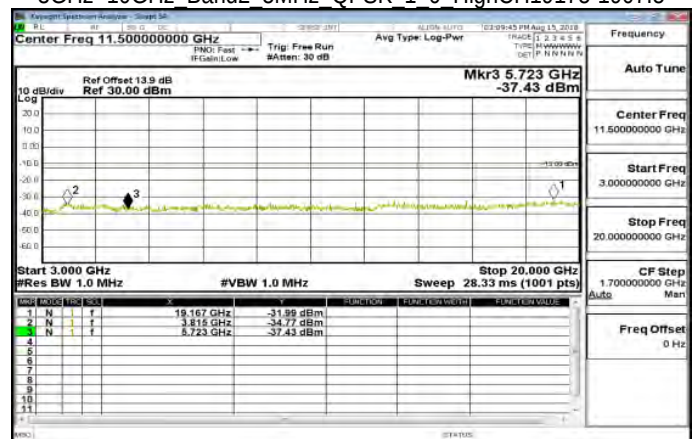
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30MHz~3GHz Band2 5MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 5MHz QPSK 1 0 HighCH19175-1907.5



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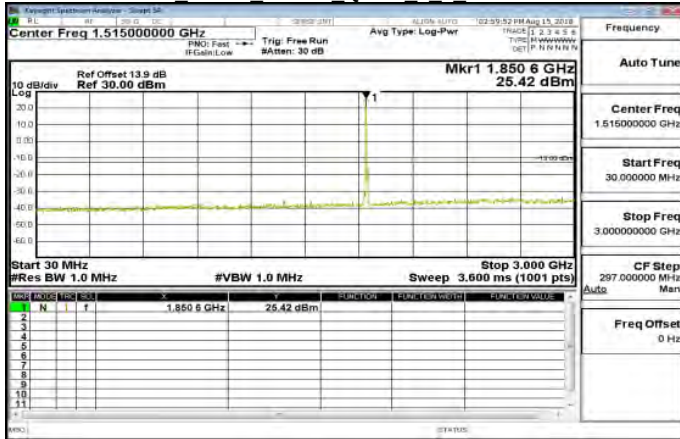
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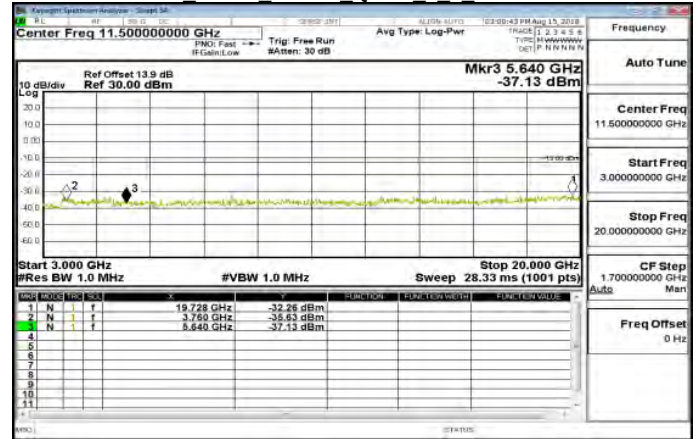
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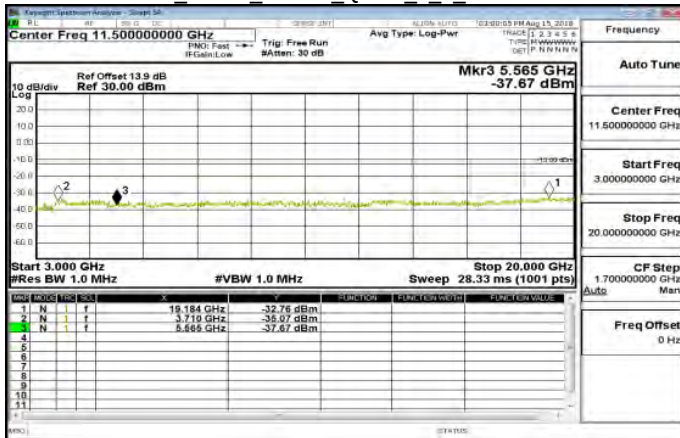
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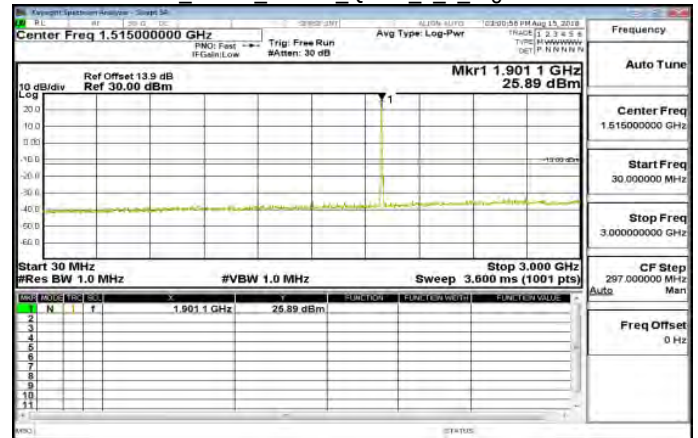
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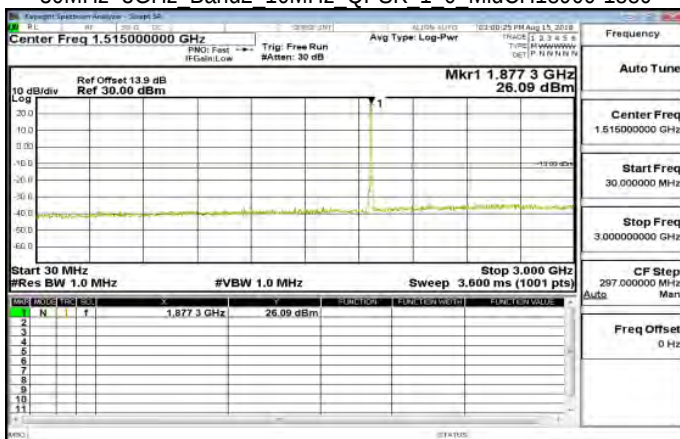
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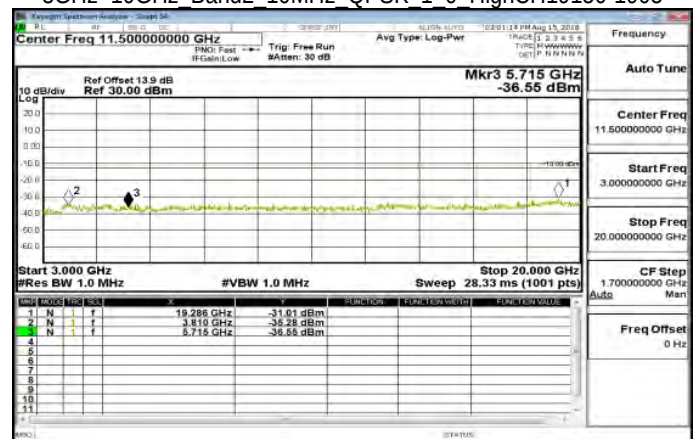
30MHz~3GHz Band2 10MHz QPSK 1 0 HighCH19150-1905



30MHz~3GHz Band2 10MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 10MHz QPSK 1 0 HighCH19150-1905



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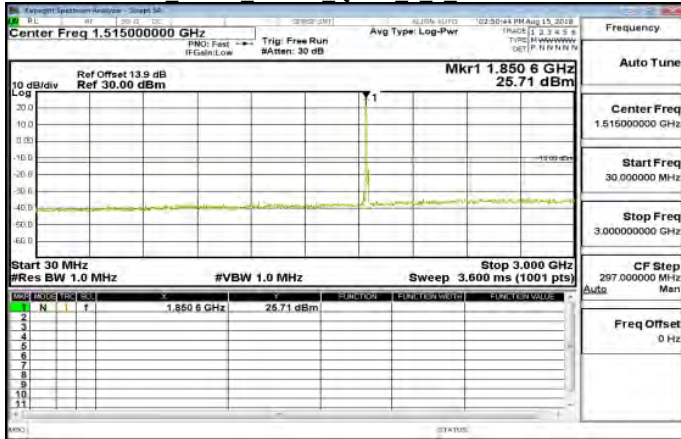
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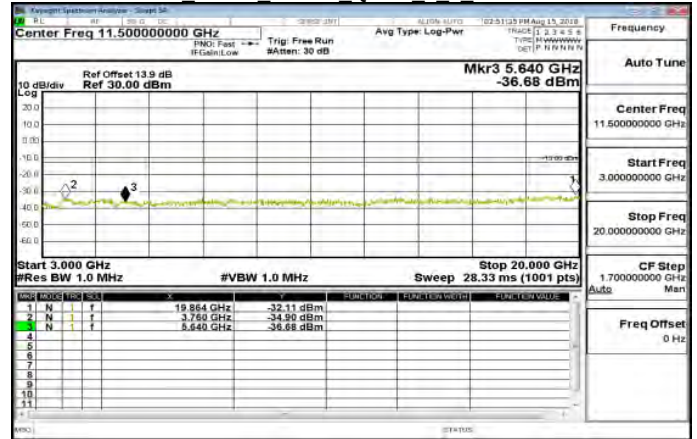
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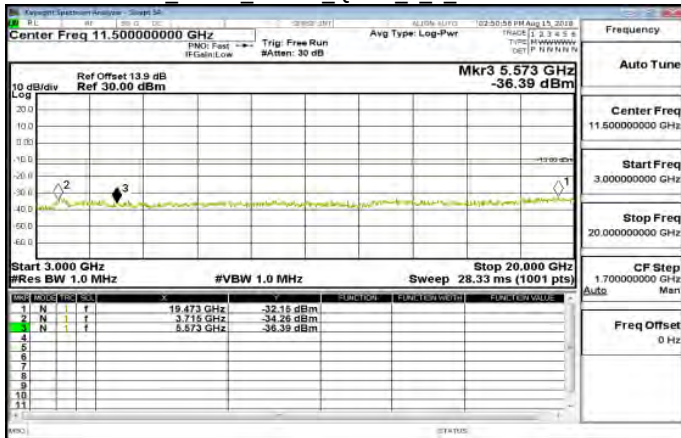
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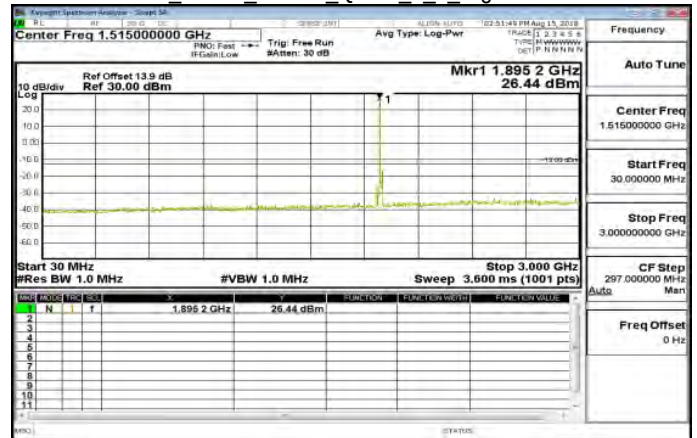
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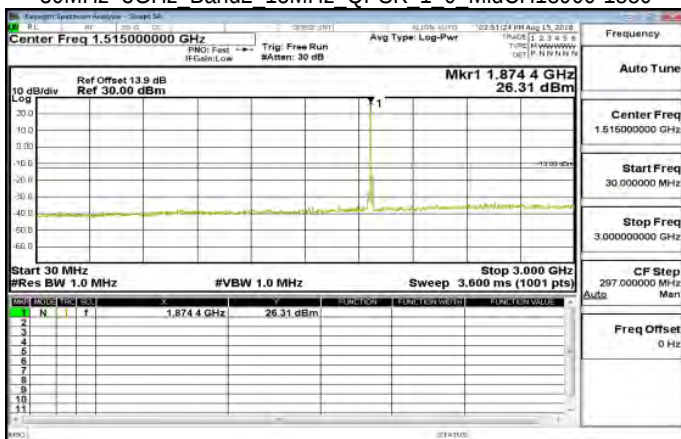
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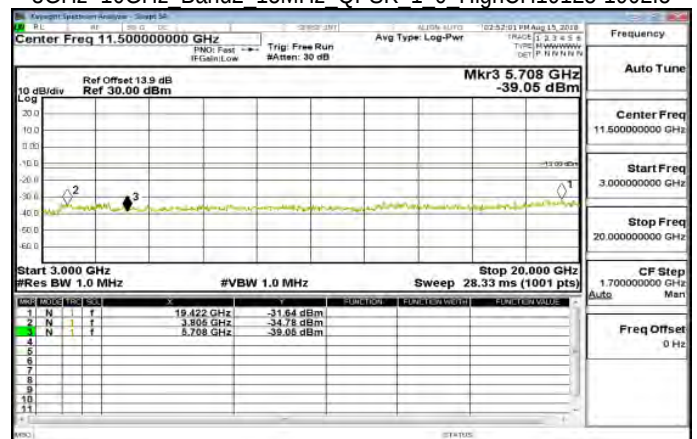
30MHz~3GHz Band2 15MHz QPSK 1 0 HighCH19125-1902.5



30MHz~3GHz Band2 15MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 15MHz QPSK 1 0 HighCH19125-1902.5



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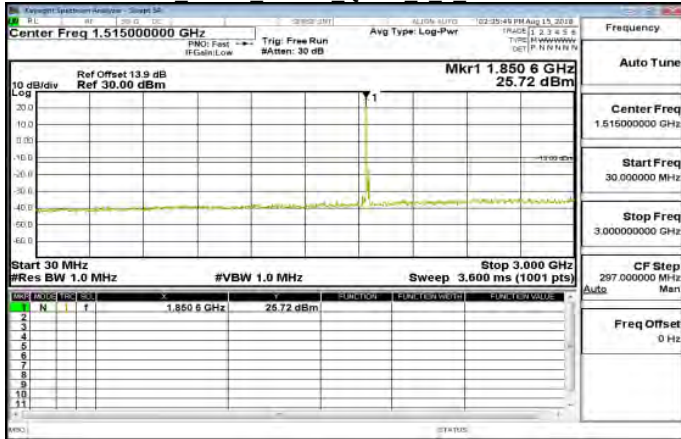
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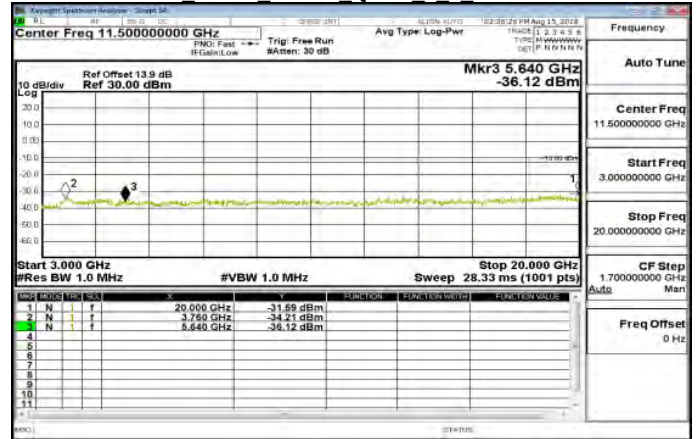
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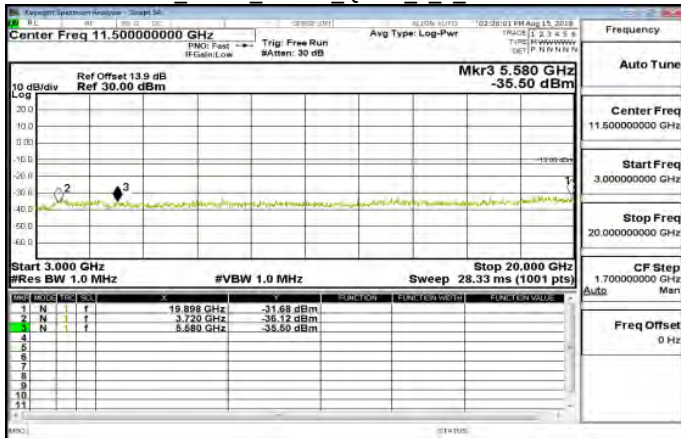
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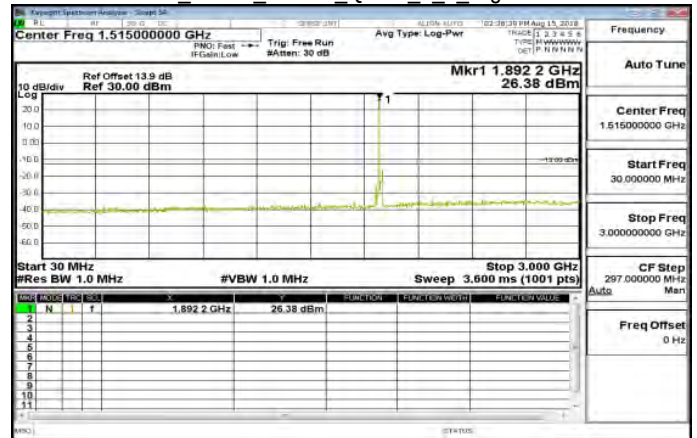
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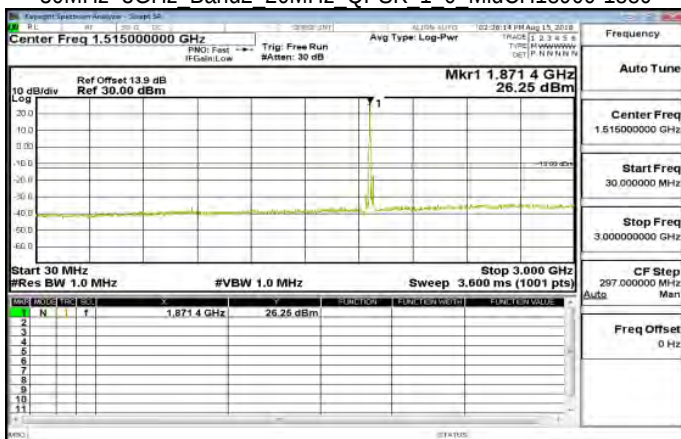
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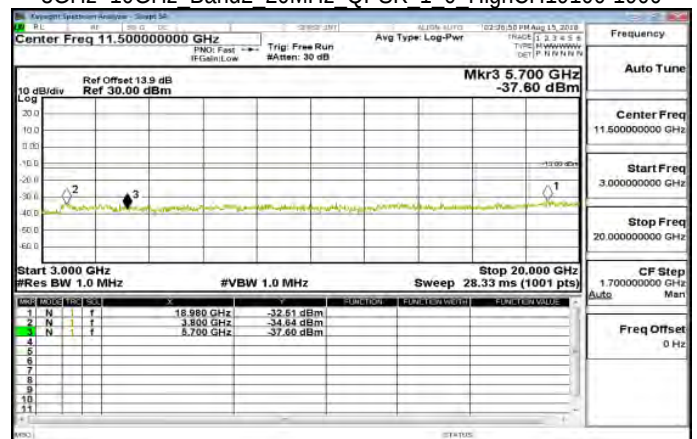
30MHz~3GHz Band2 20MHz QPSK 1 0 HighCH19100-1900



30MHz~3GHz Band2 20MHz QPSK 1 0 MidCH18900-1880



3GHz~10GHz Band2 20MHz QPSK 1 0 HighCH19100-1900



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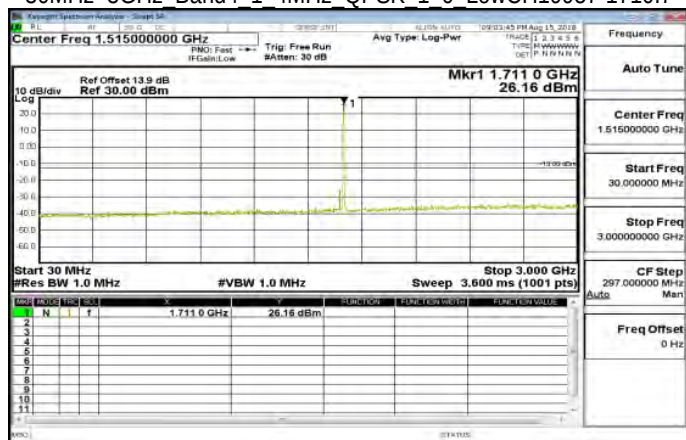
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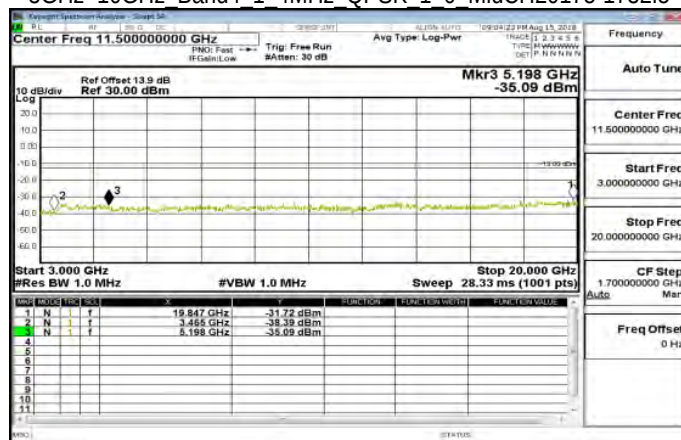
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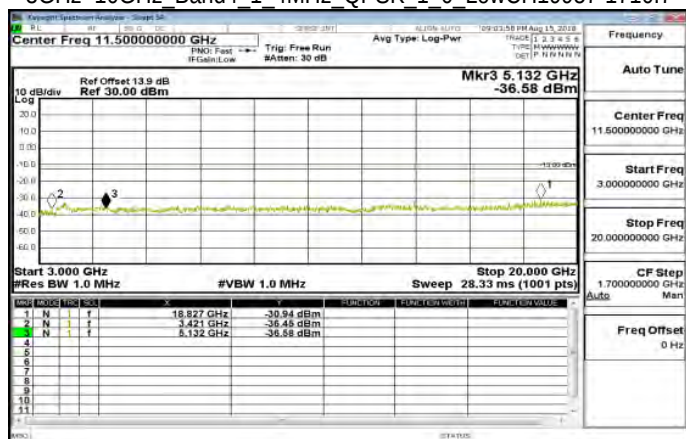
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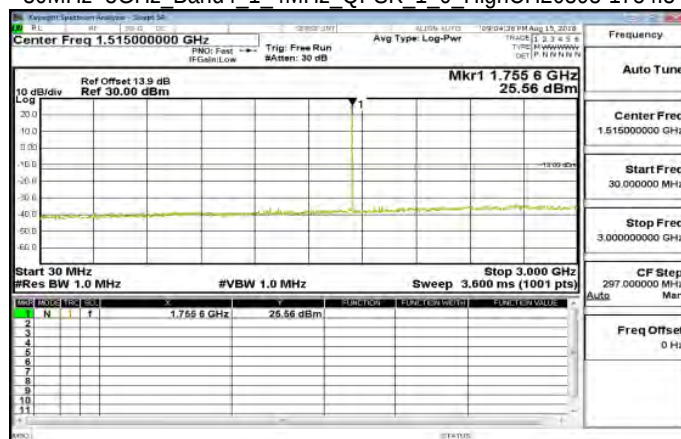
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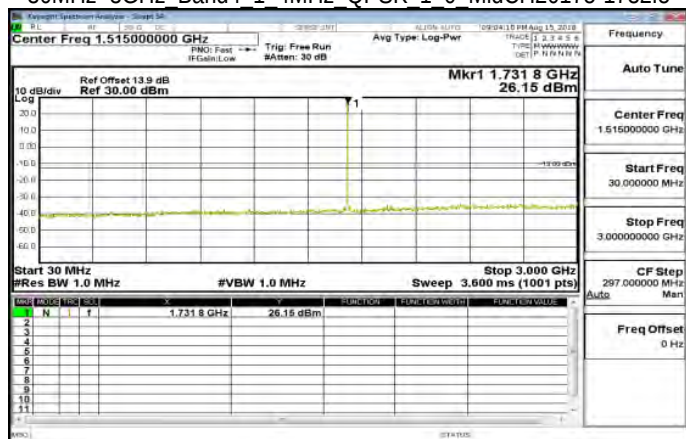
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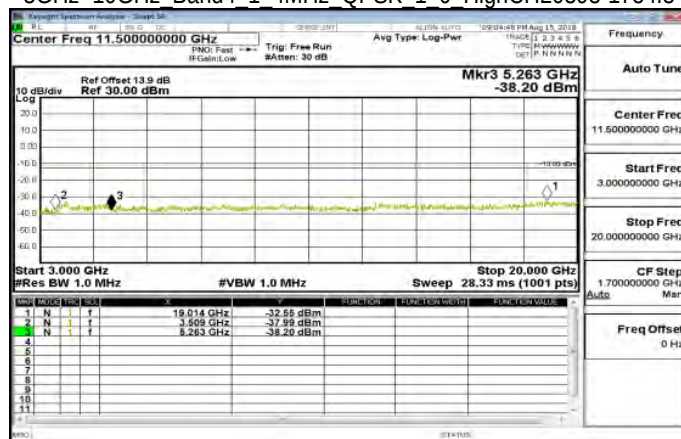
30MHz~3GHz Band4 1 4MHz QPSK 1 0 HighCH20393-1754.3



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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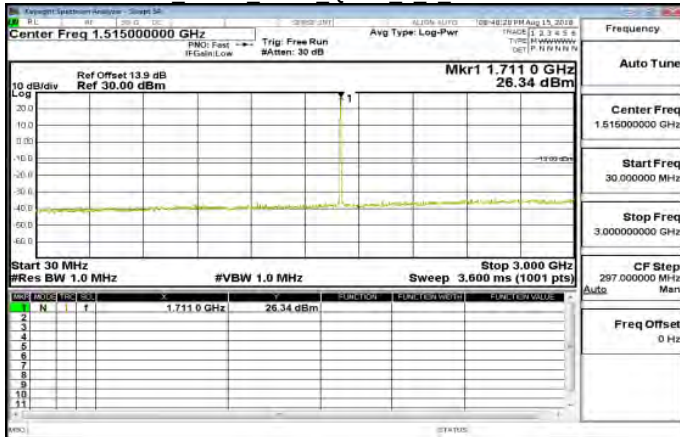
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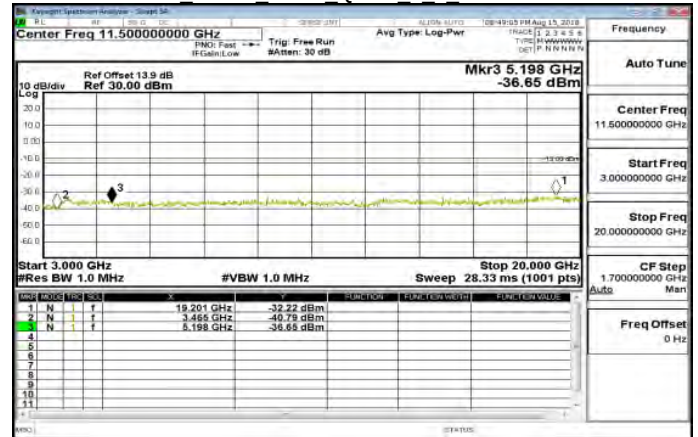
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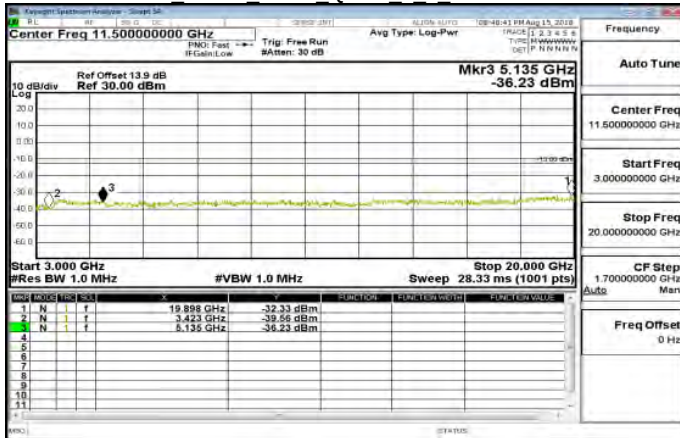
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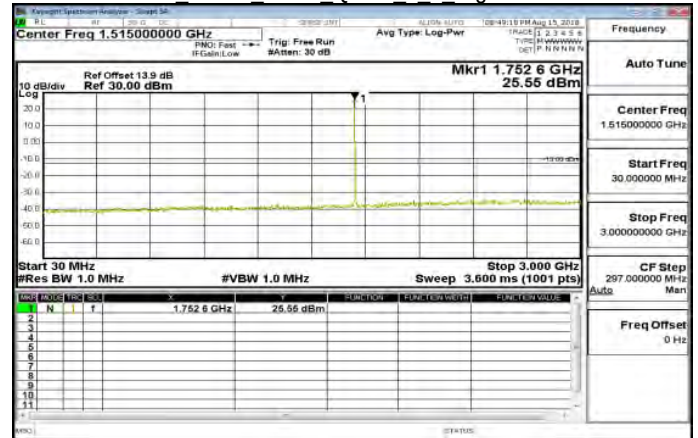
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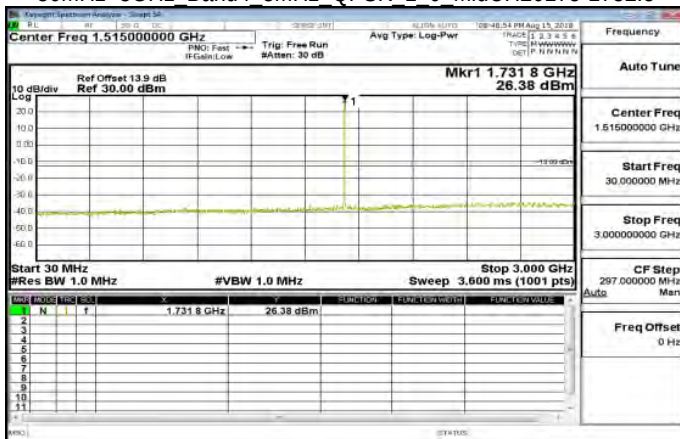
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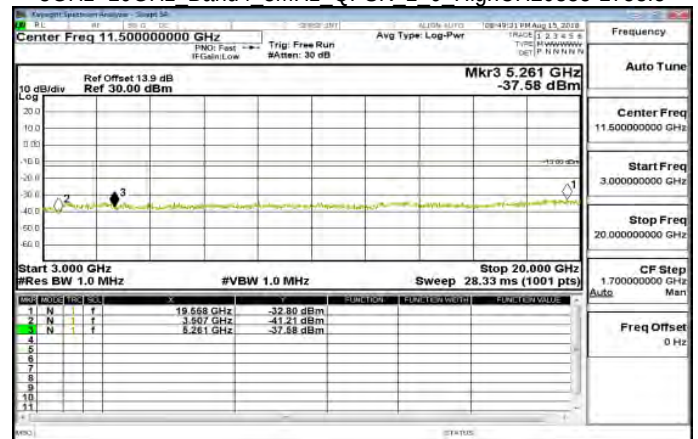
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30MHz~3GHz Band4 3MHz QPSK 1 0 MidCH20175-1732.5



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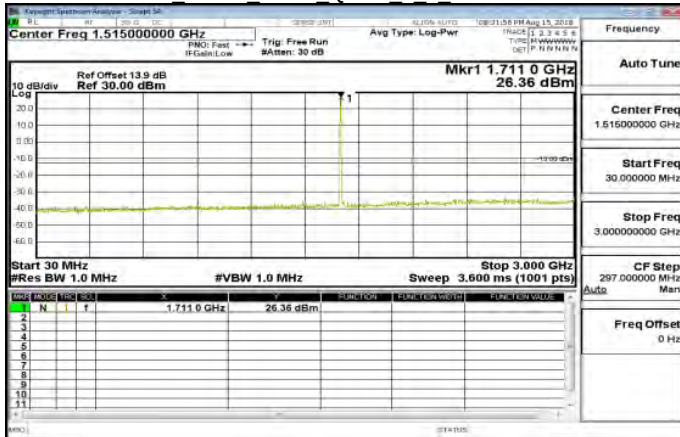
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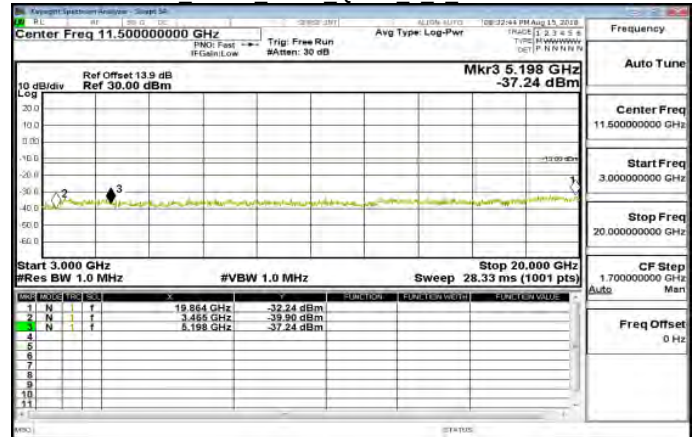
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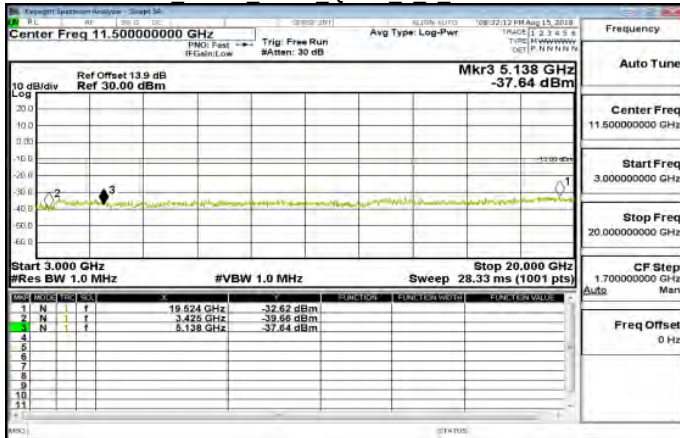
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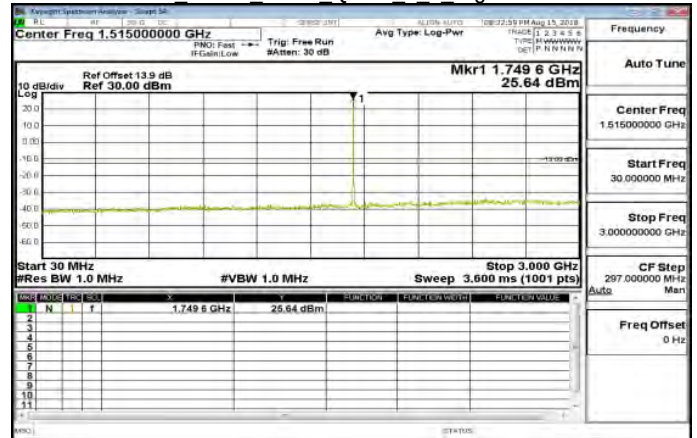
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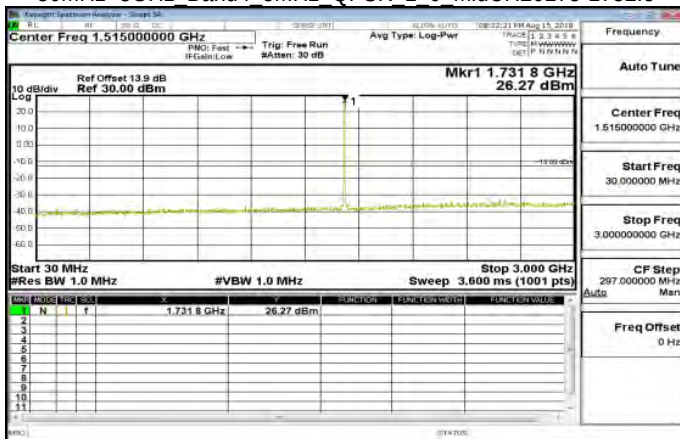
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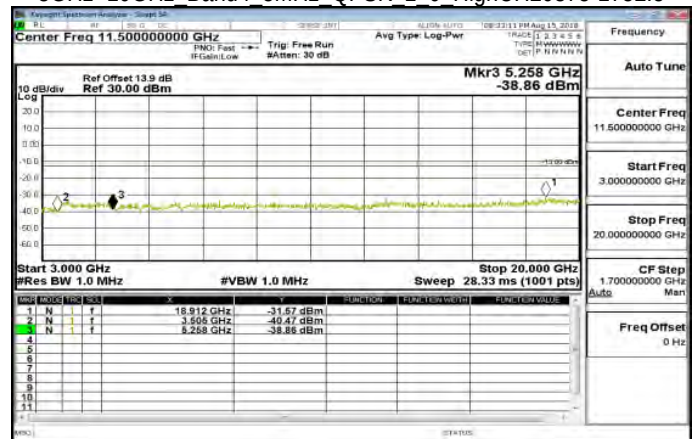
30MHz~3GHz Band4 5MHz QPSK 1 0 HighCH20375-1752.5



30MHz~3GHz Band4 5MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 5MHz QPSK 1 0 HighCH20375-1752.5



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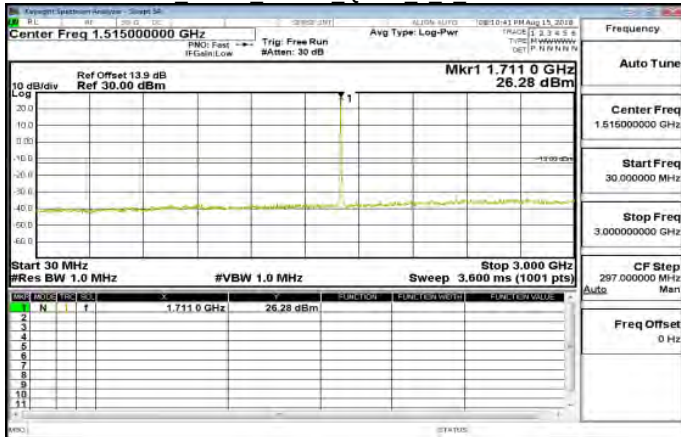
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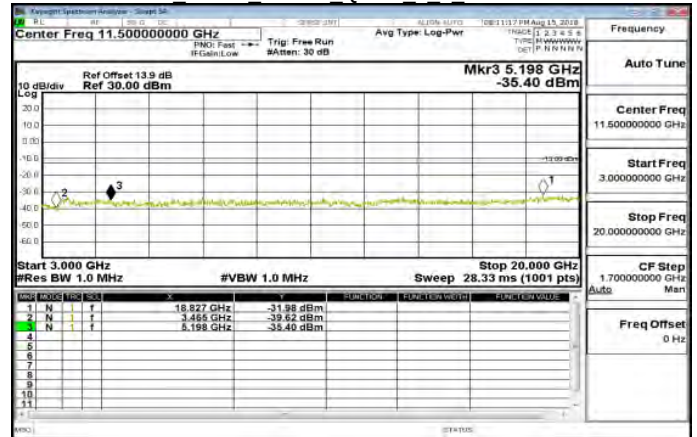
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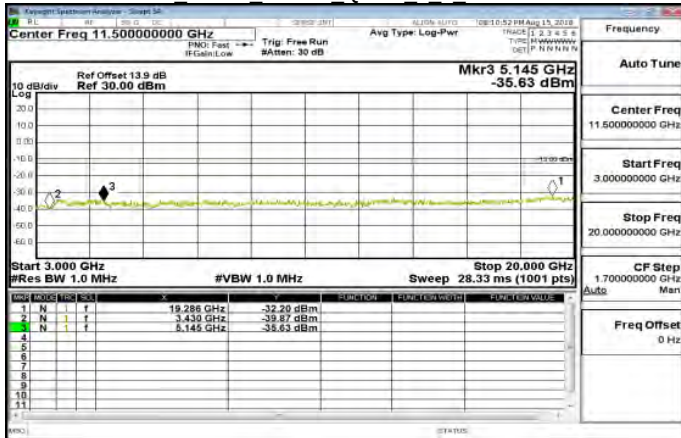
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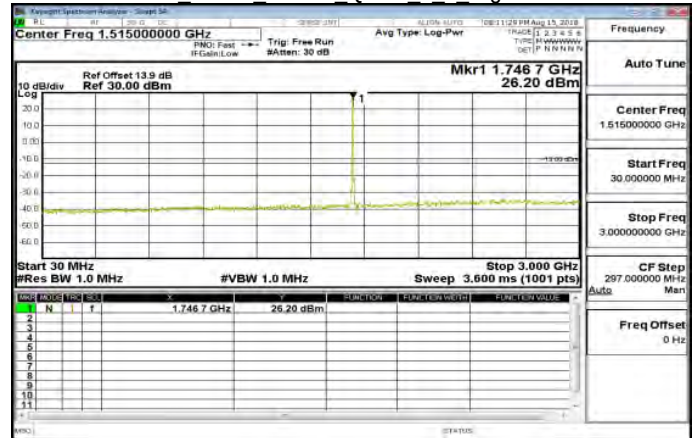
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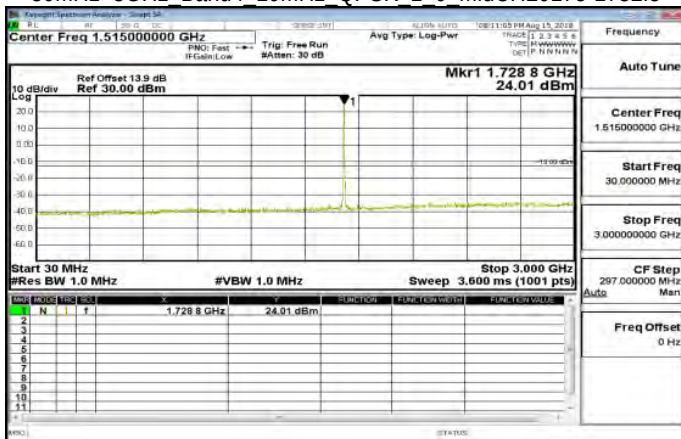
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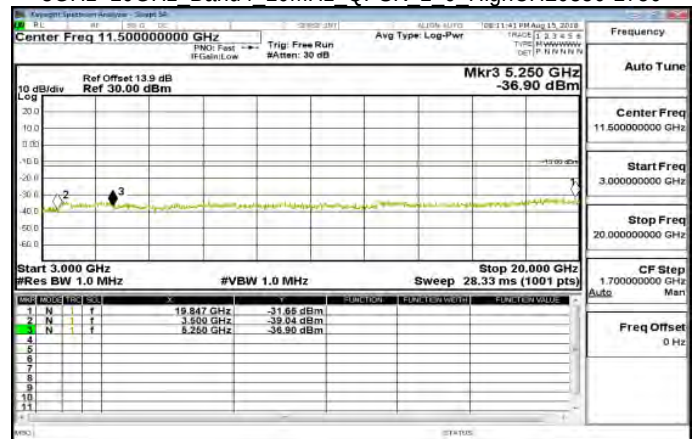
30MHz~3GHz Band4 10MHz QPSK 1 0 HighCH20350-1750



30MHz~3GHz Band4 10MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 10MHz QPSK 1 0 HighCH20350-1750



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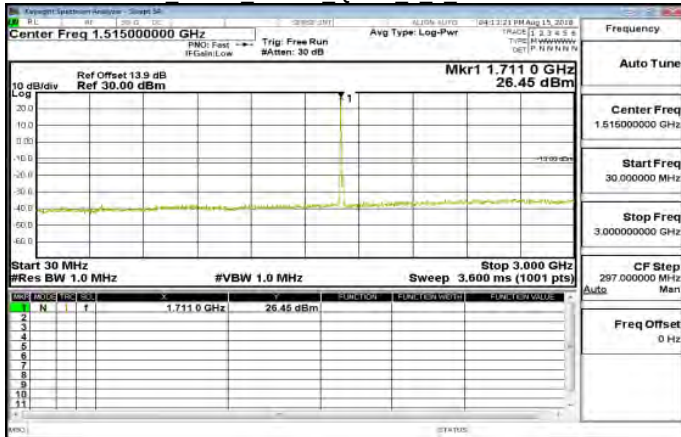
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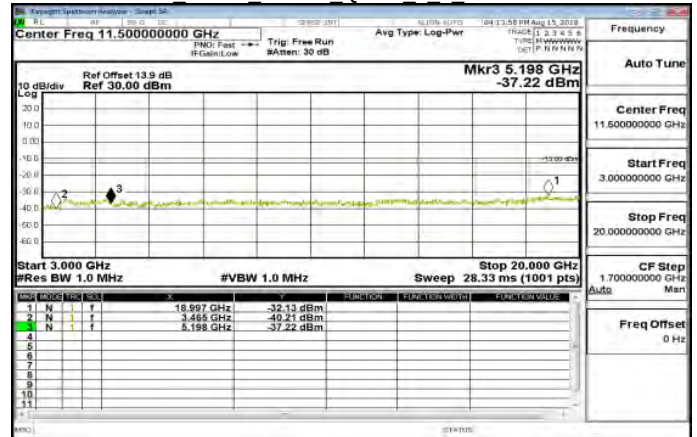
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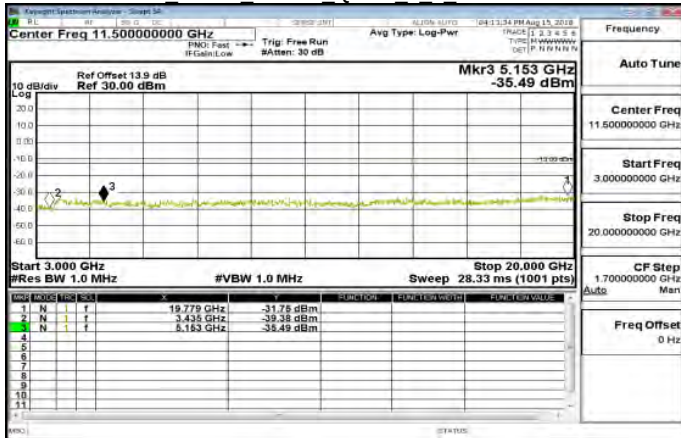
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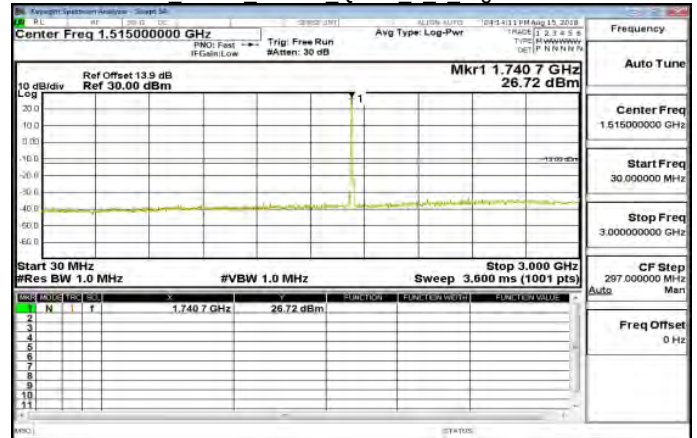
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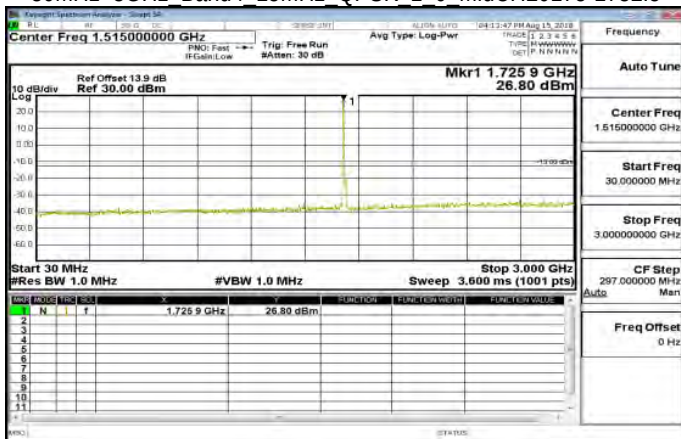
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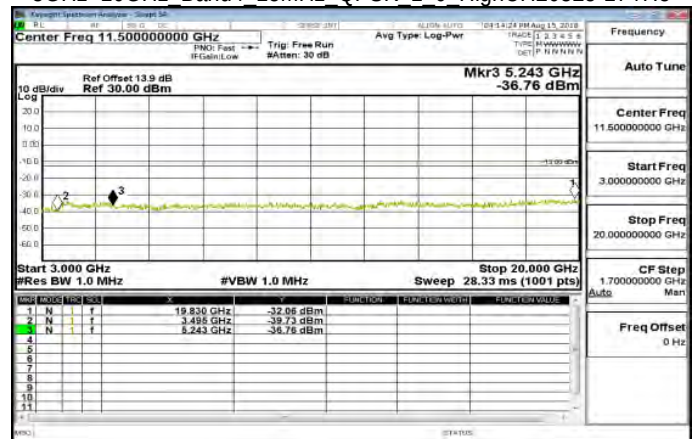
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30MHz~3GHz Band4 15MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 15MHz QPSK 1 0 HighCH20325-1747.5



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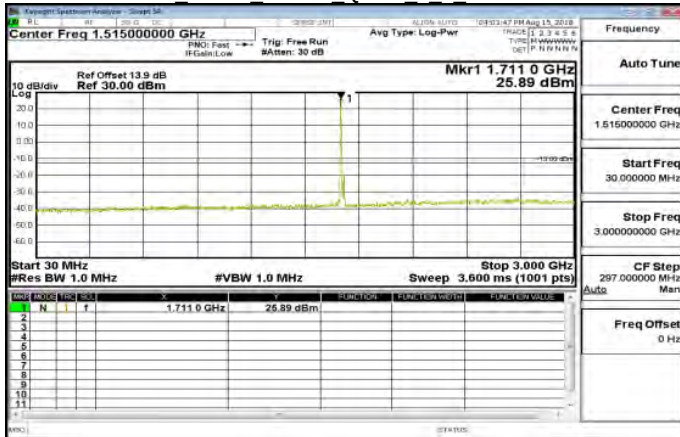
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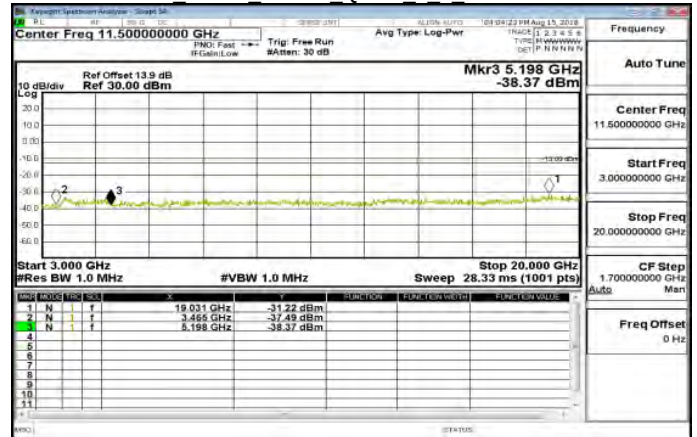
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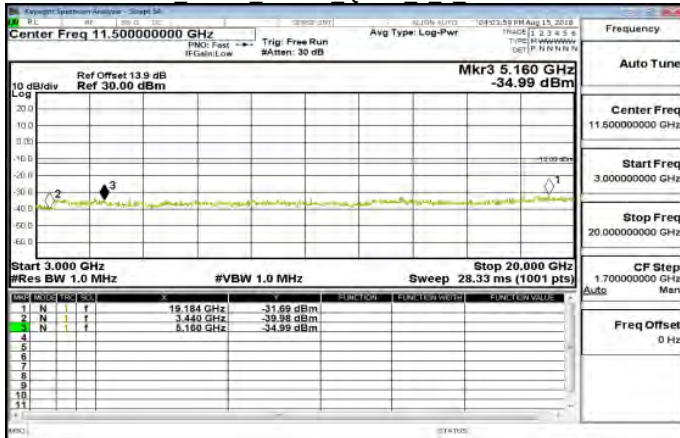
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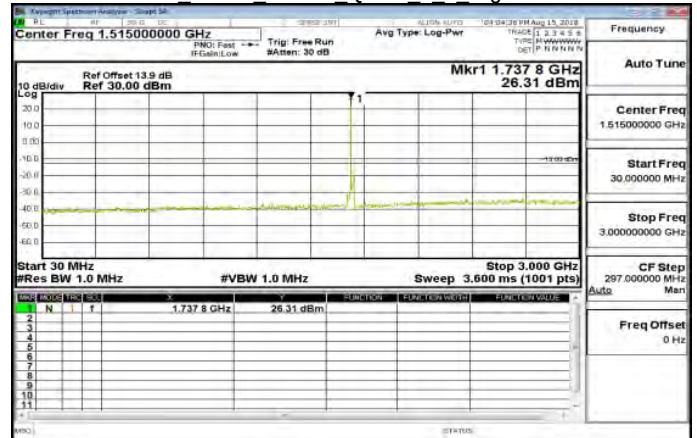
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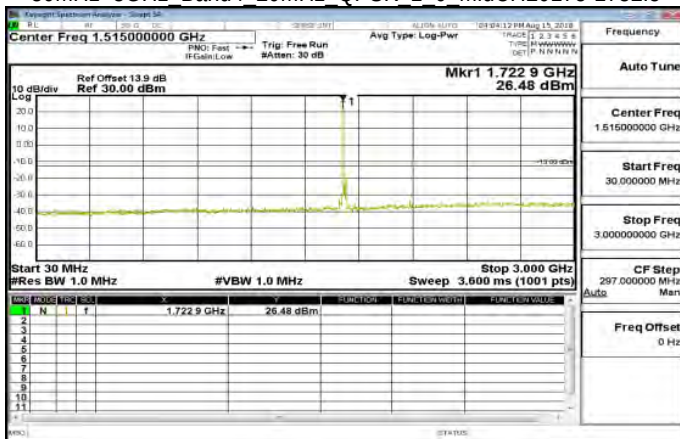
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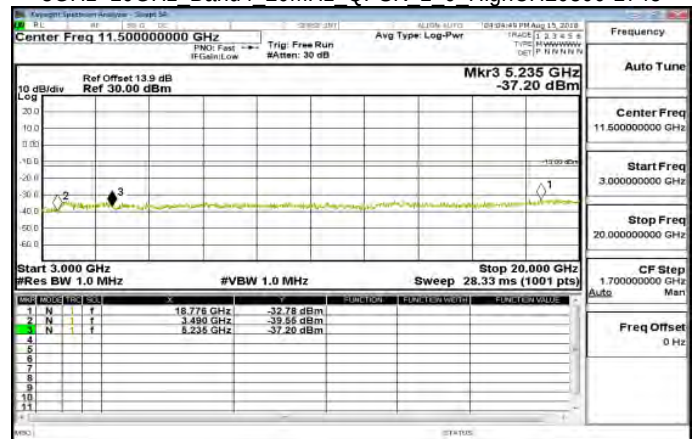
30MHz~3GHz Band4 20MHz QPSK 1 0 HighCH20300-1745



30MHz~3GHz Band4 20MHz QPSK 1 0 MidCH20175-1732.5



3GHz~10GHz Band4 20MHz QPSK 1 0 HighCH20300-1745



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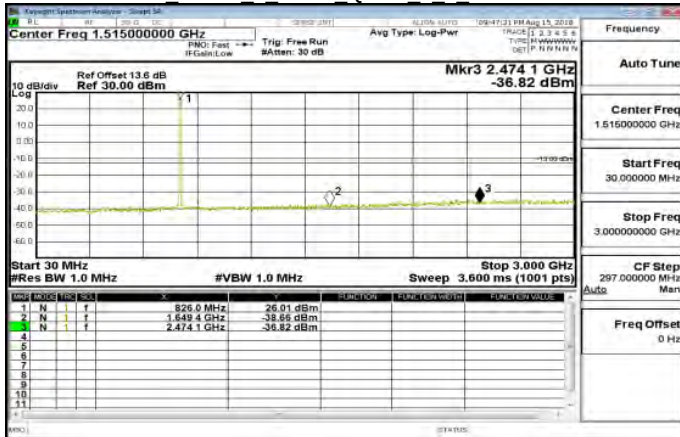
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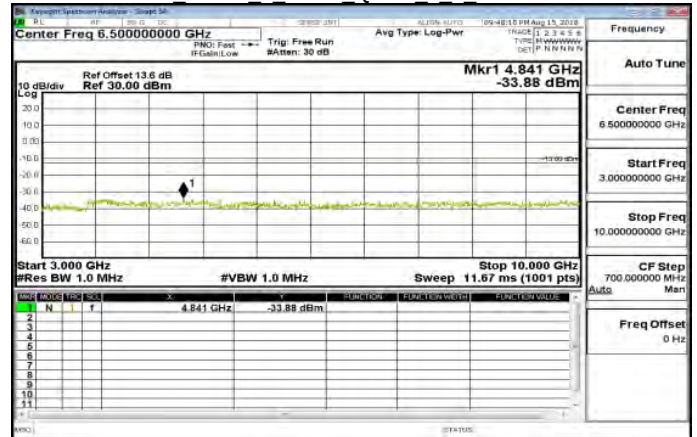
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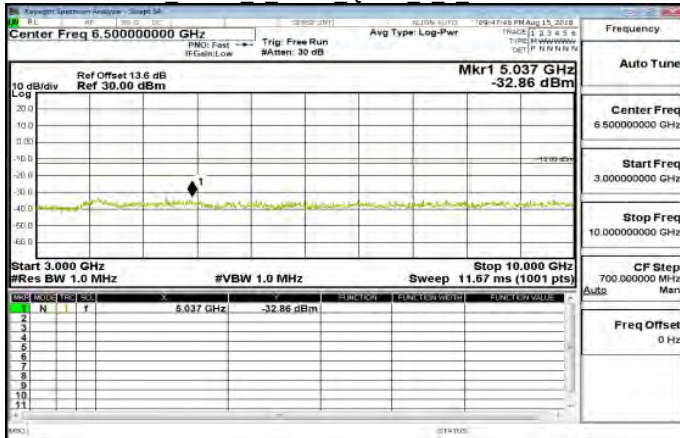
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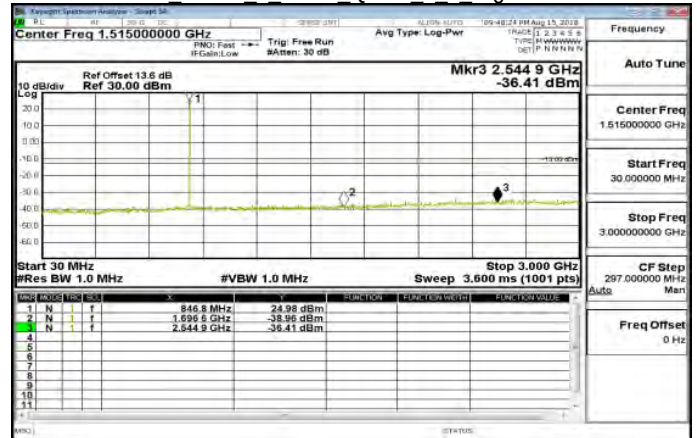
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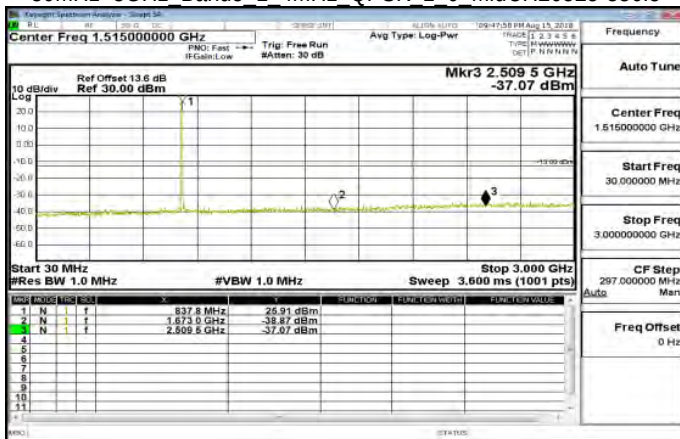
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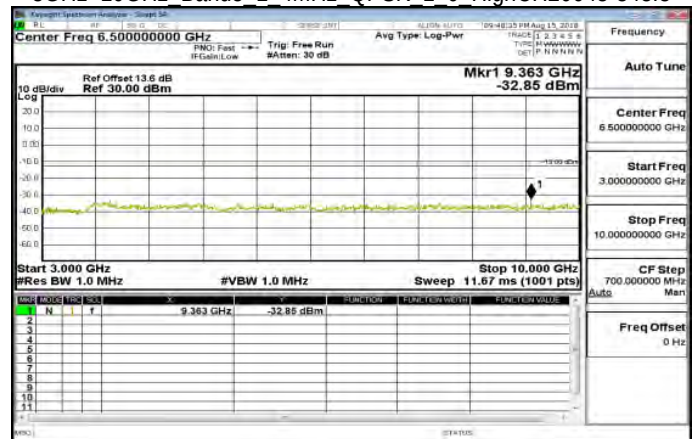
30MHz~3GHz Band5 1 4MHz QPSK 1 0 HighCH20643-848.3



30MHz~3GHz Band5 1 4MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 1 4MHz QPSK 1 0 HighCH20643-848.3



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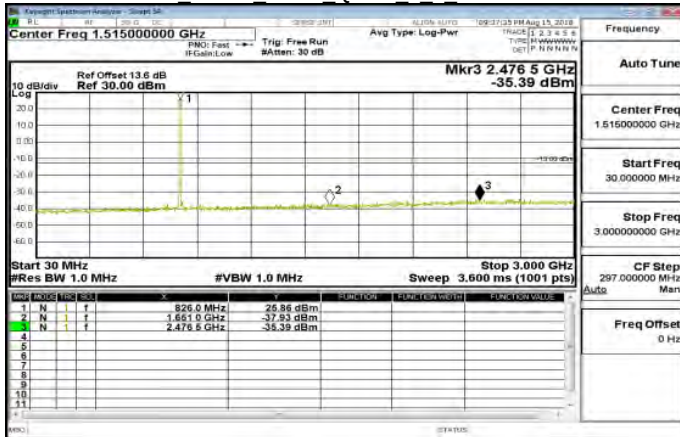
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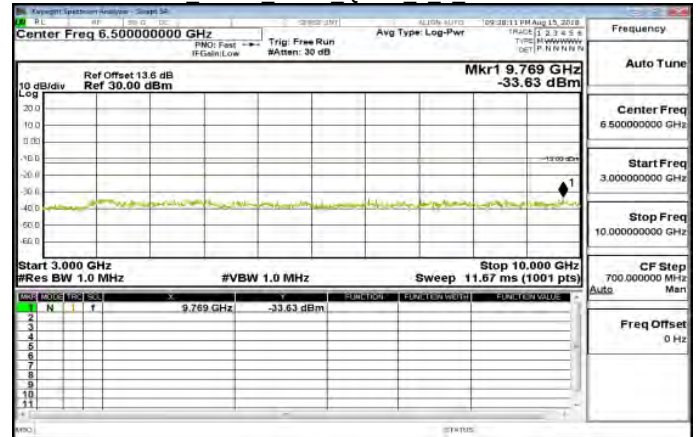
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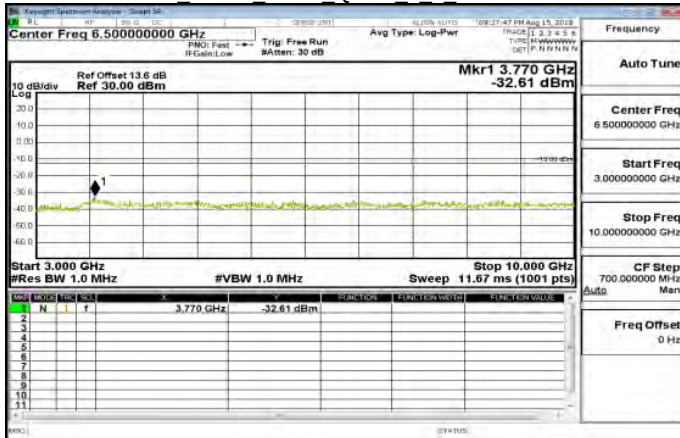
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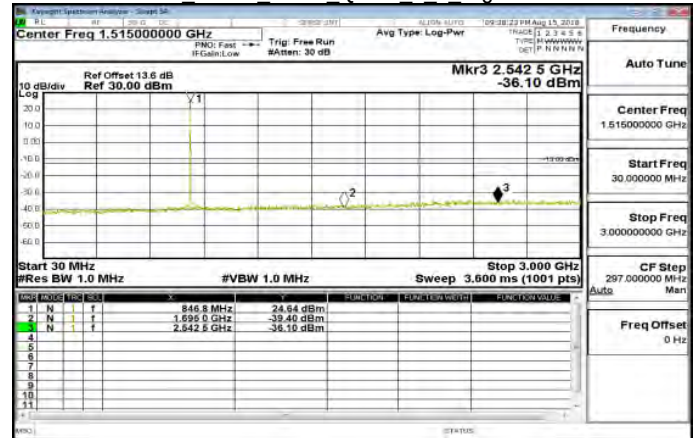
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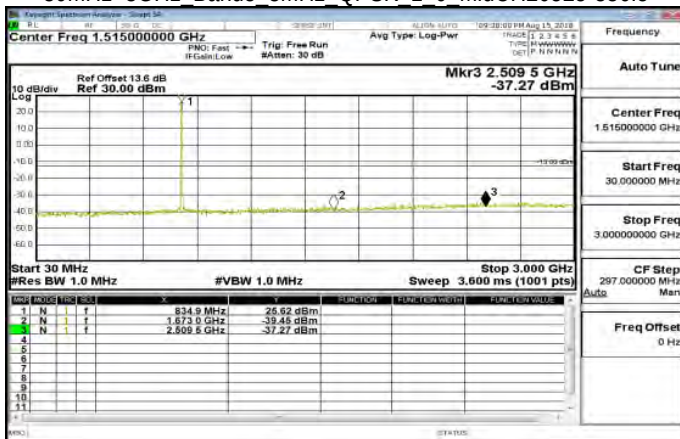
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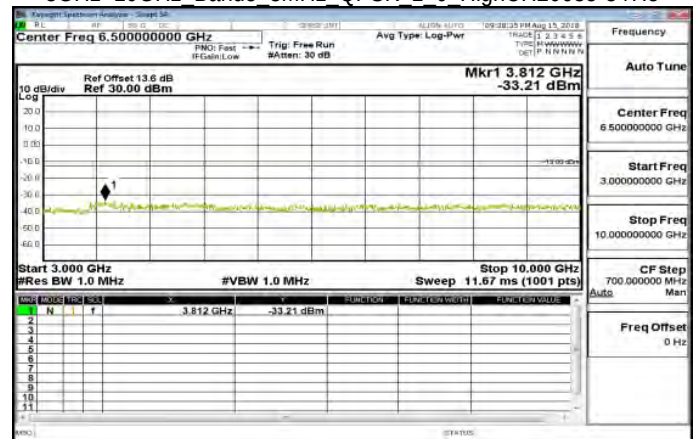
30MHz~3GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



30MHz~3GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



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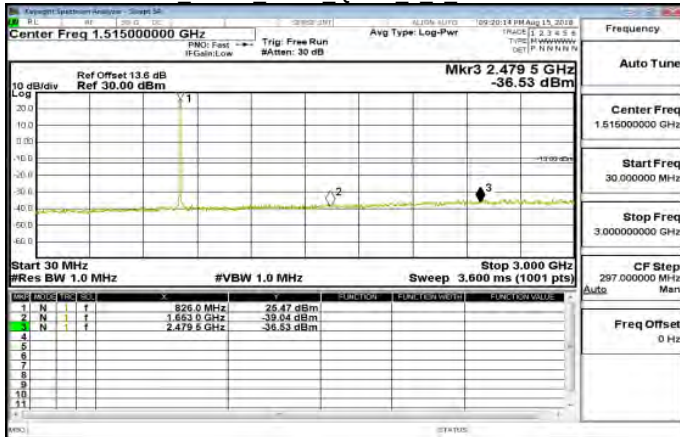
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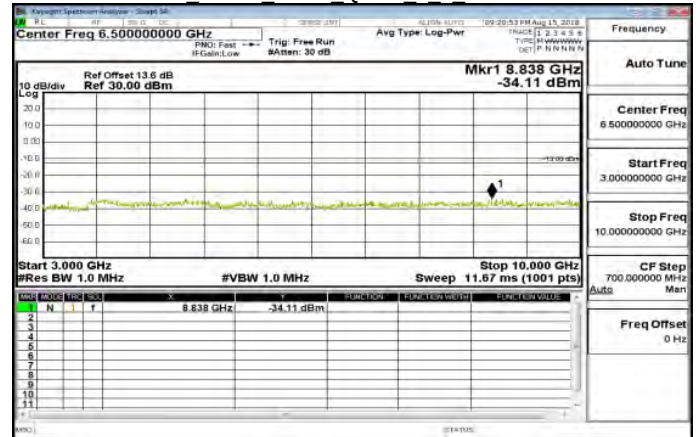
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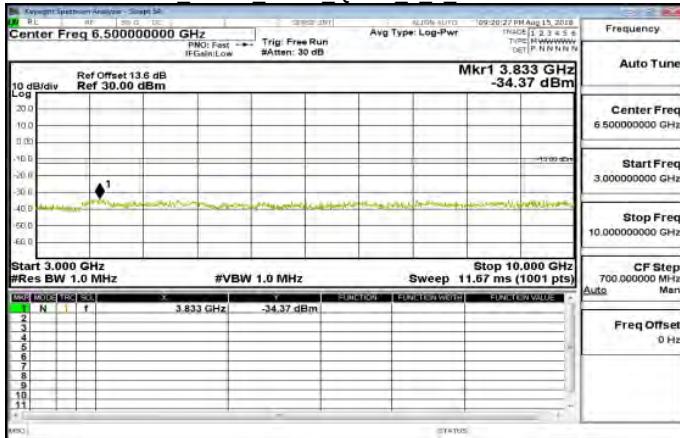
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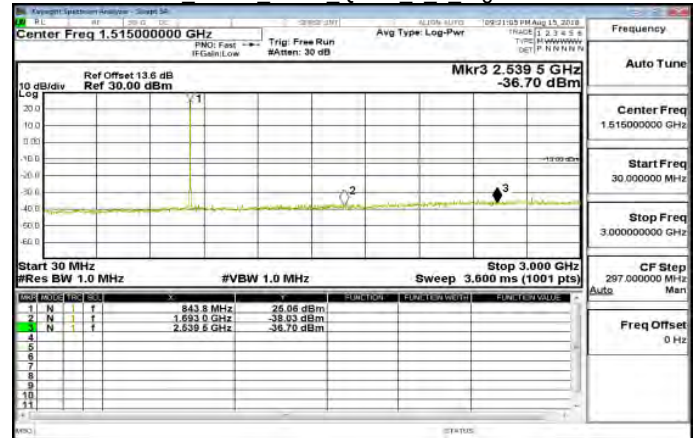
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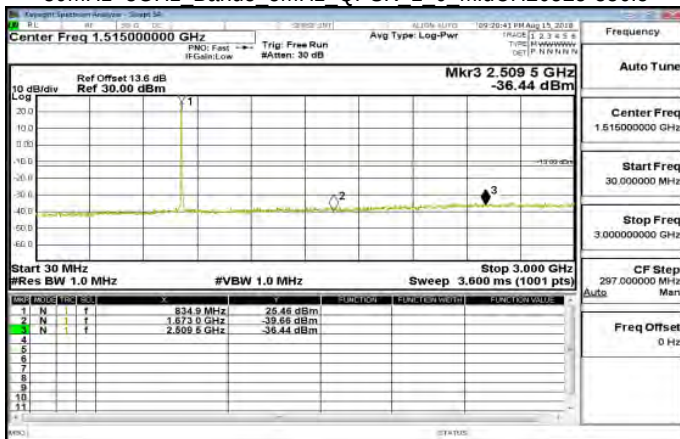
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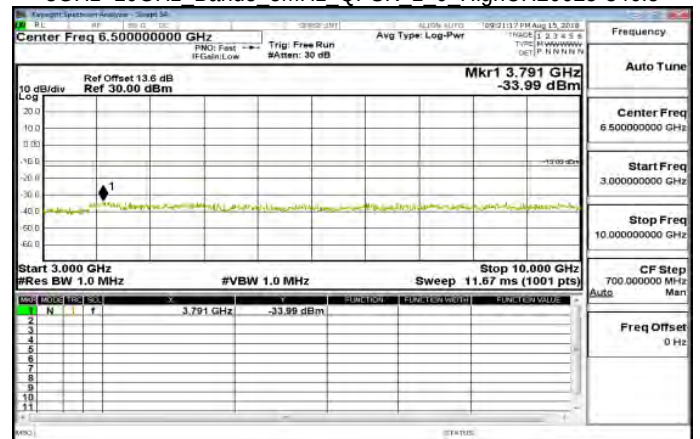
30MHz~3GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



30MHz~3GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5



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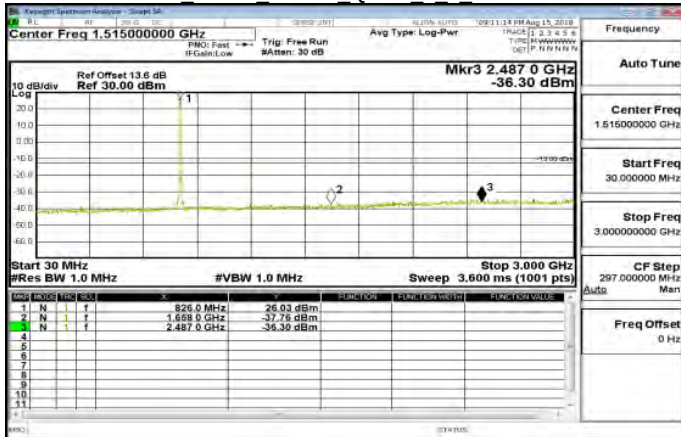
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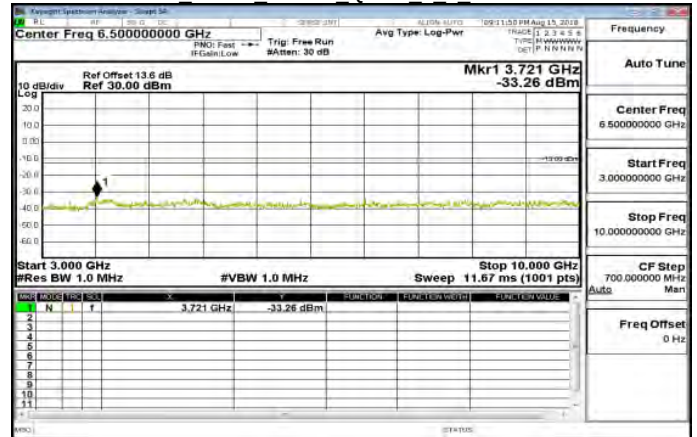
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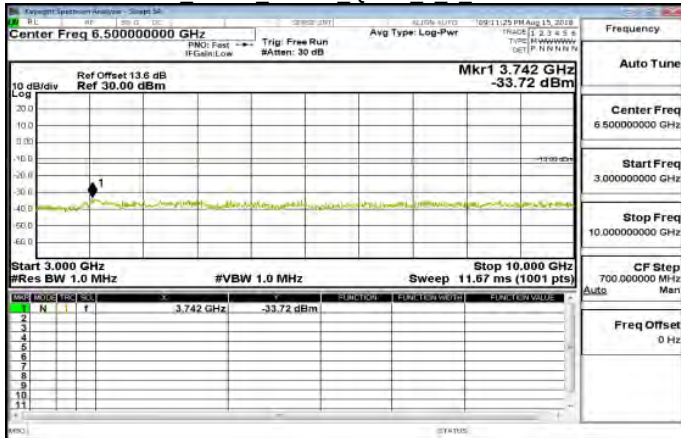
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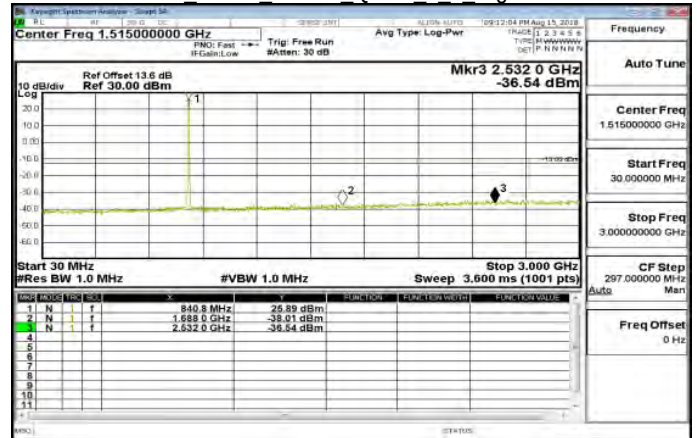
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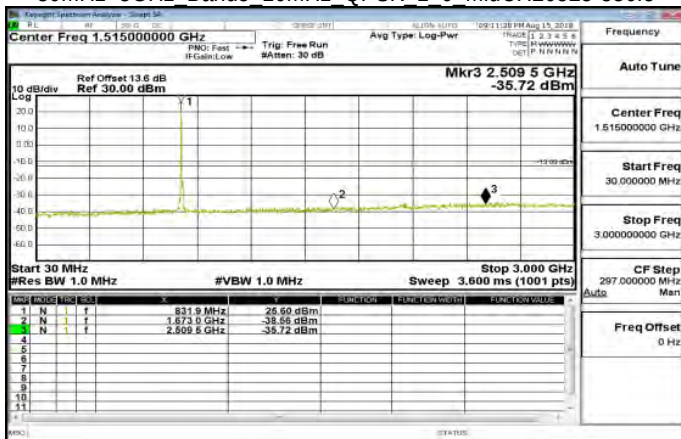
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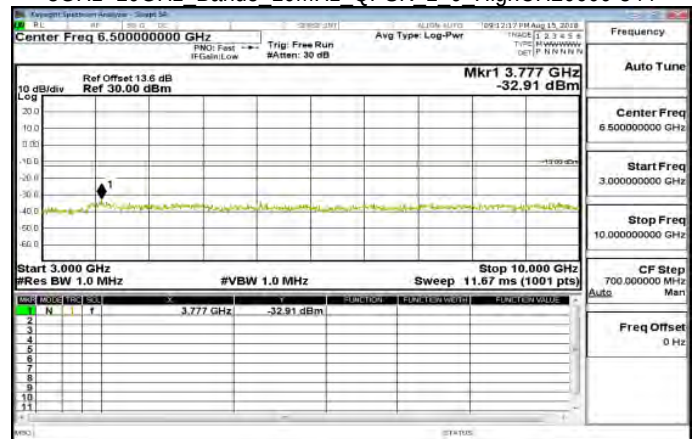
30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



30MHz~3GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844



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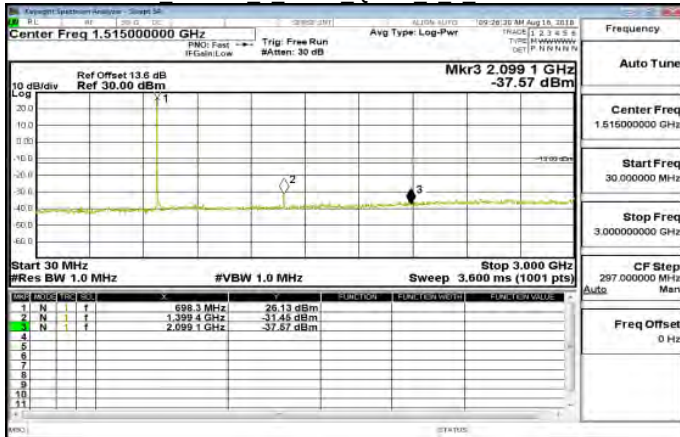
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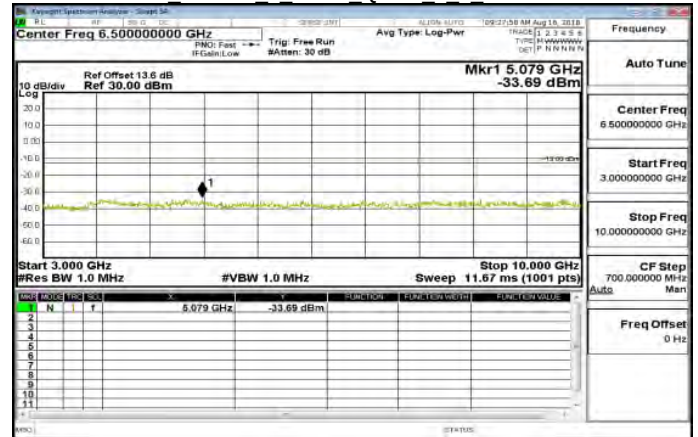
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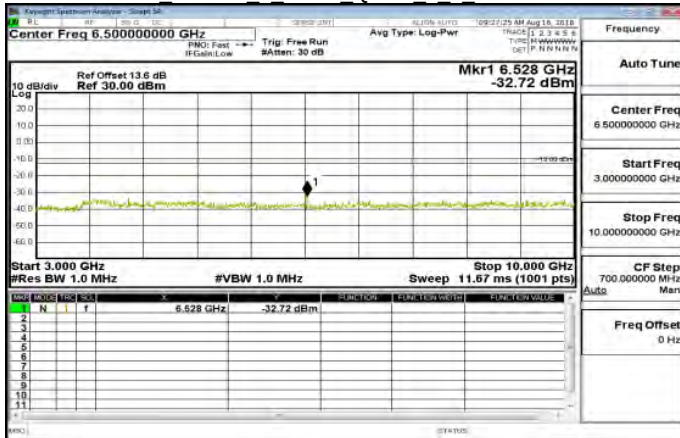
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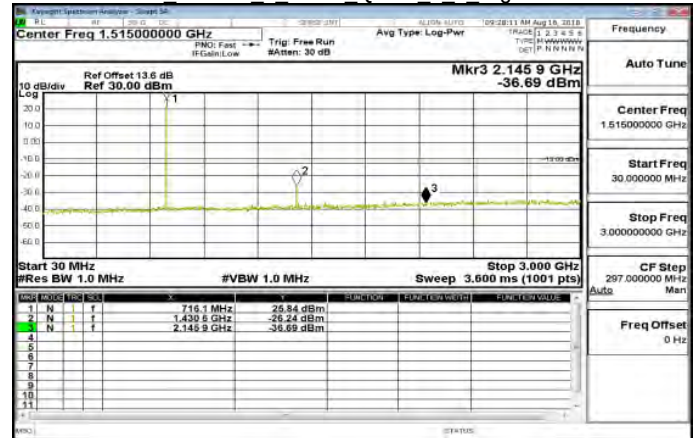
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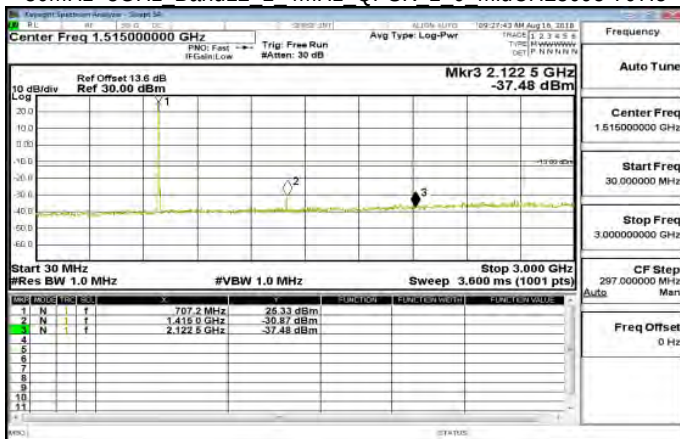
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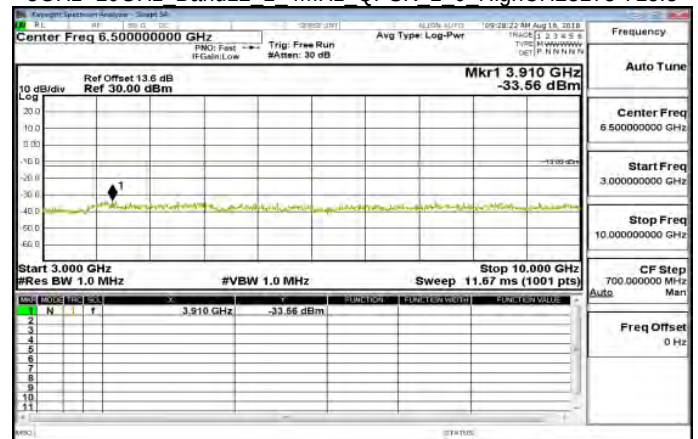
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30MHz~3GHz Band12 1 4MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 1 4MHz QPSK 1 0 HighCH23173-715.3



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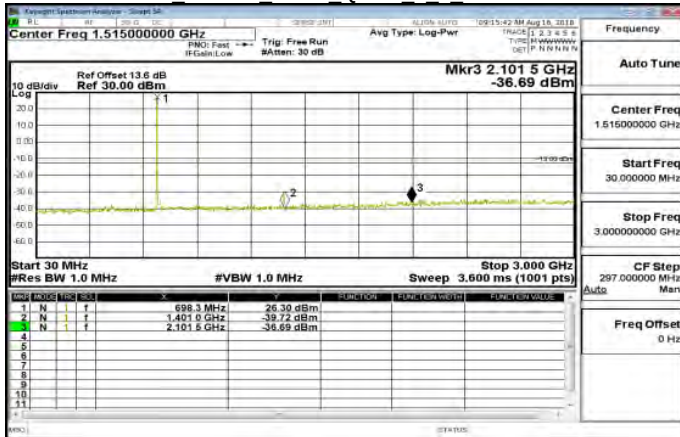
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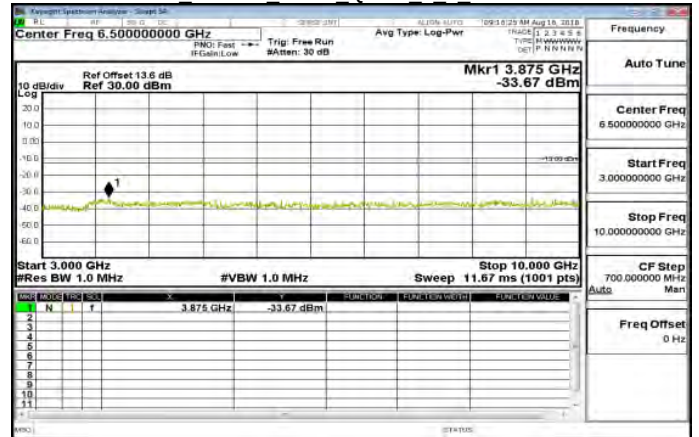
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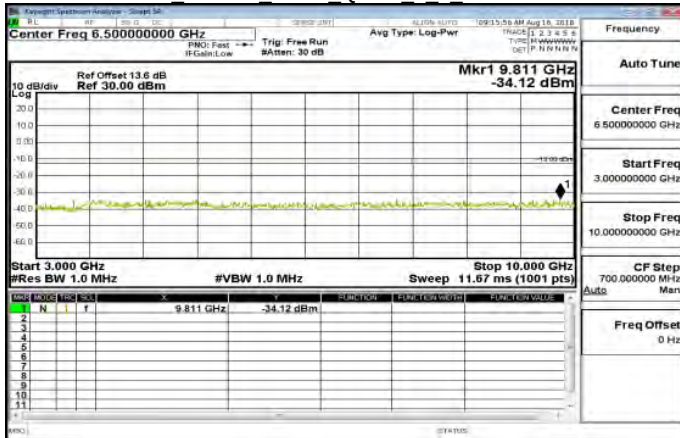
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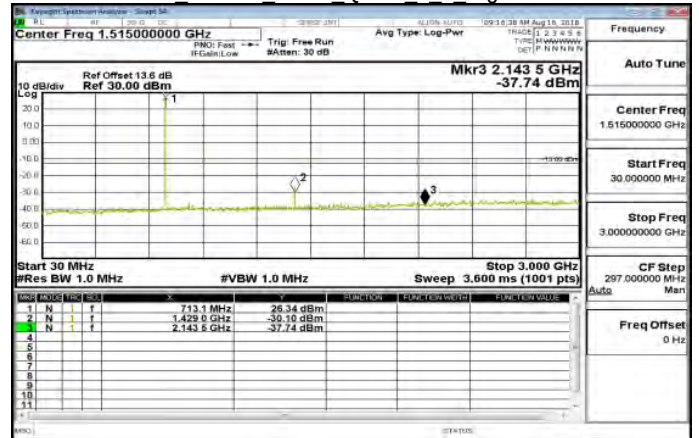
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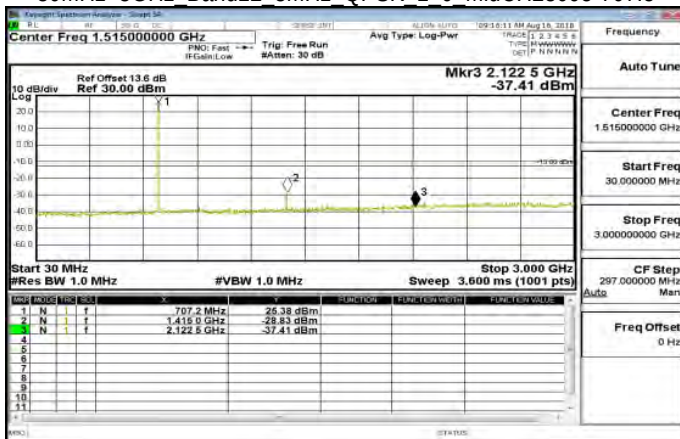
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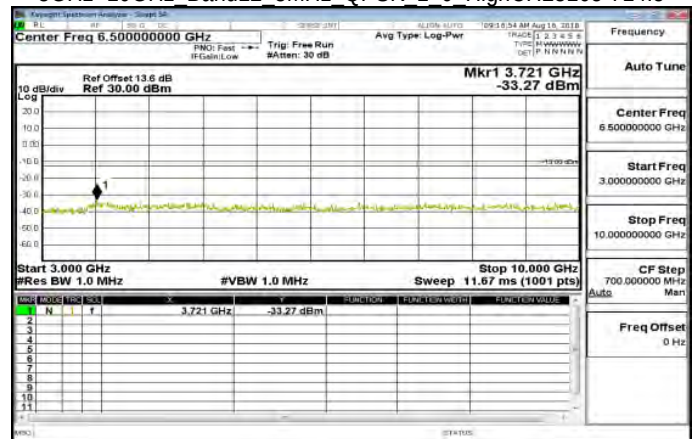
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30MHz~3GHz Band12 3MHz QPSK 1 0 MidCH23095-707.5



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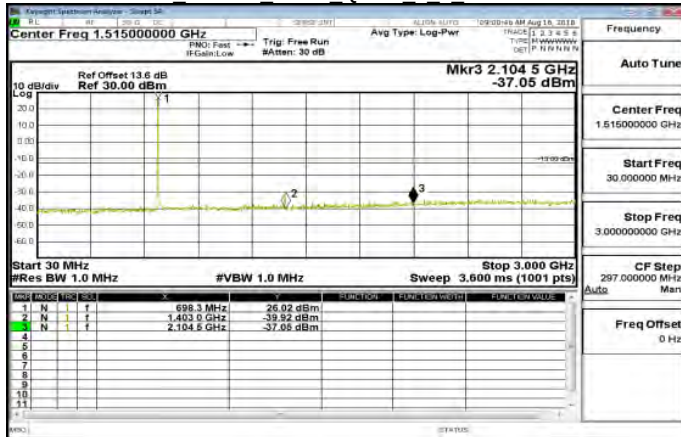
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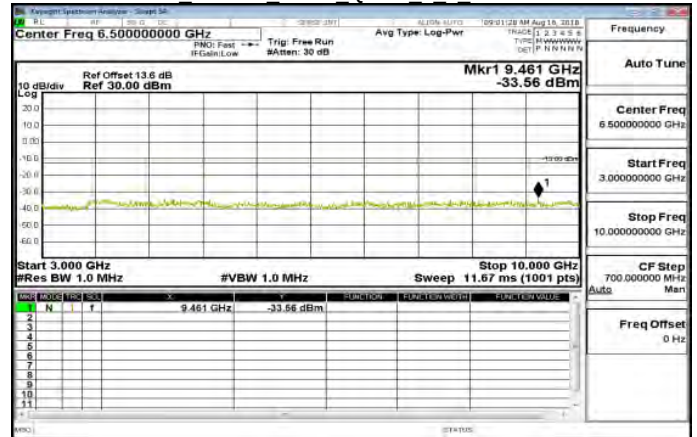
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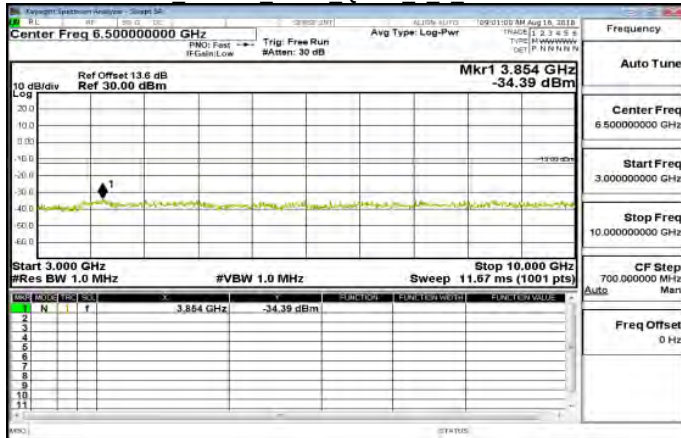
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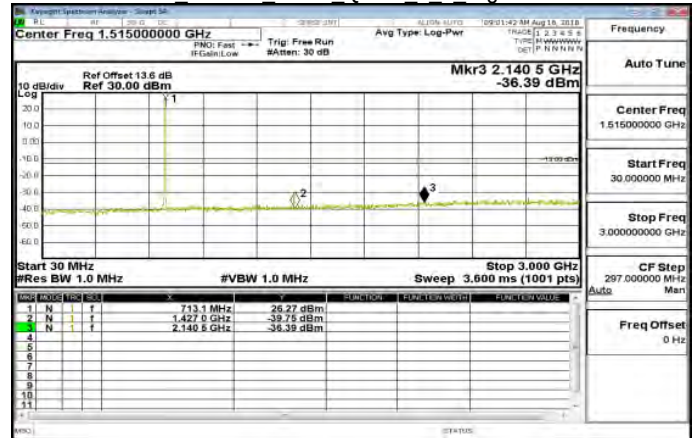
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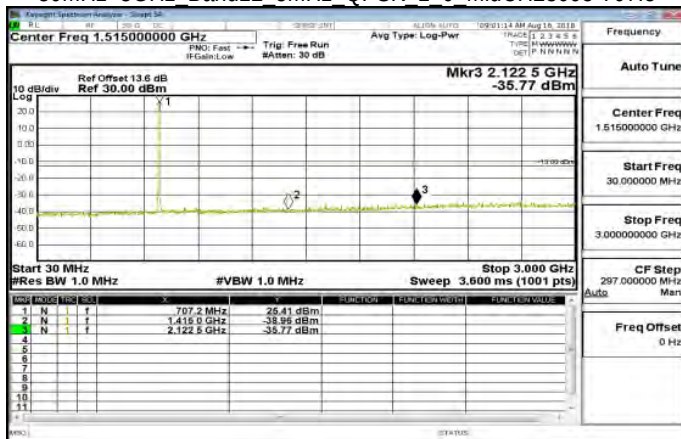
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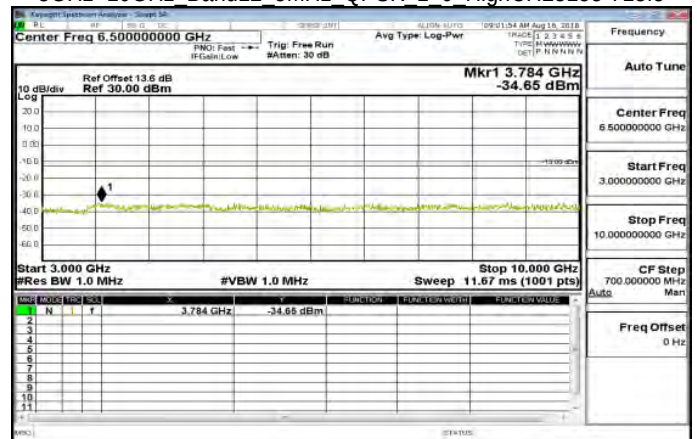
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30MHz~3GHz Band12 5MHz QPSK 1 0 MidCH23095-707.5



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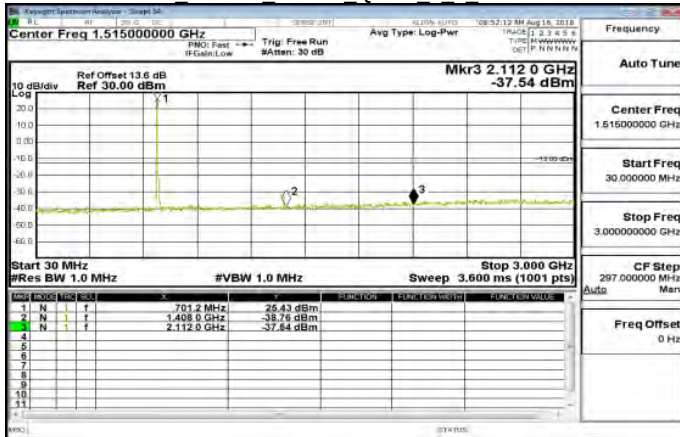
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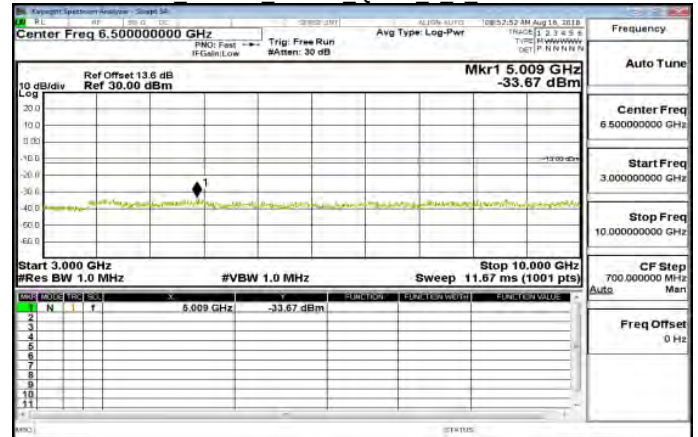
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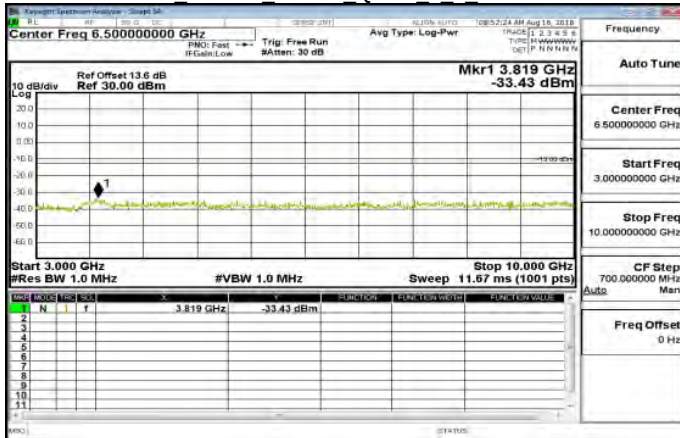
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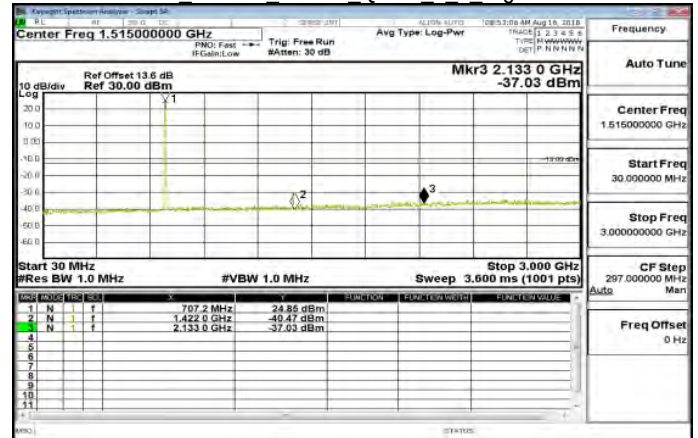
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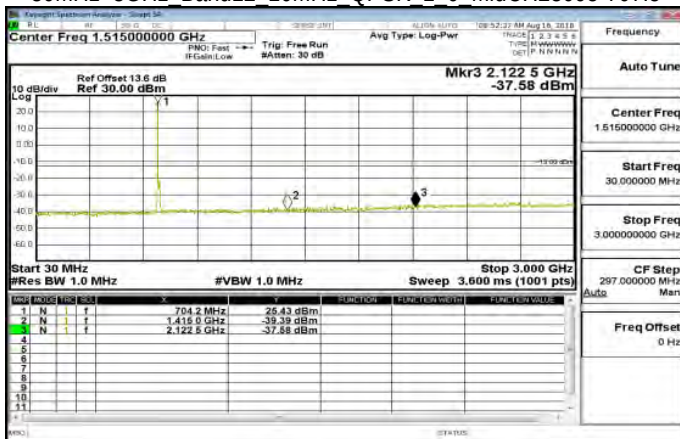
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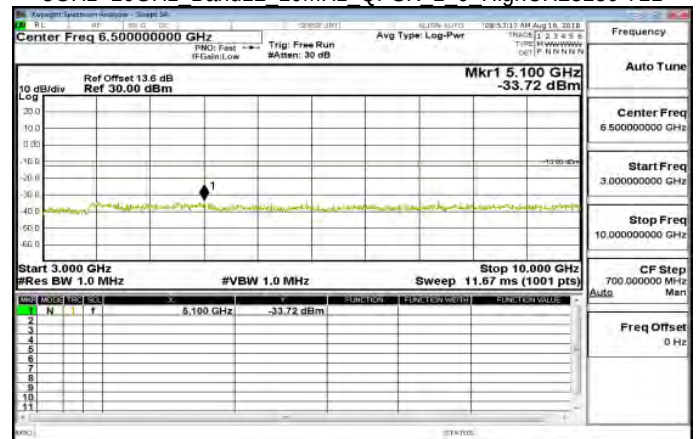
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30MHz~3GHz Band12 10MHz QPSK 1 0 MidCH23095-707.5



3GHz~10GHz Band12 10MHz QPSK 1 0 HighCH23130-711



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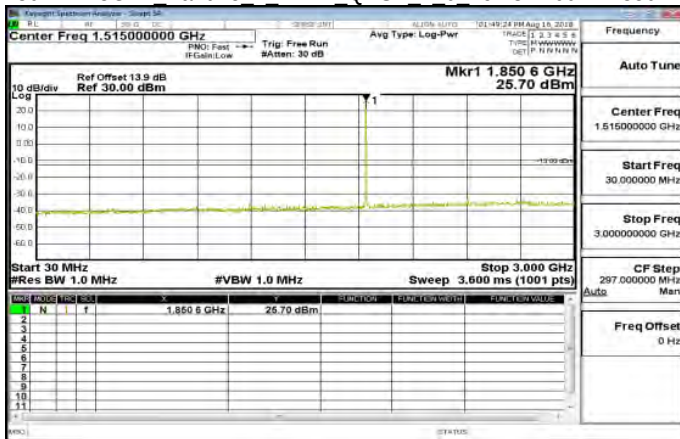
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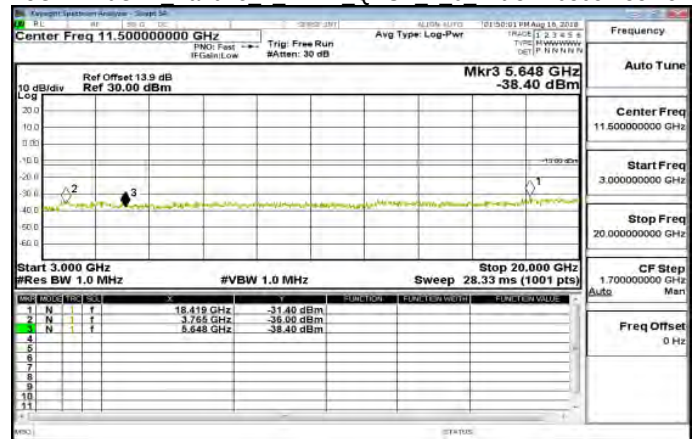
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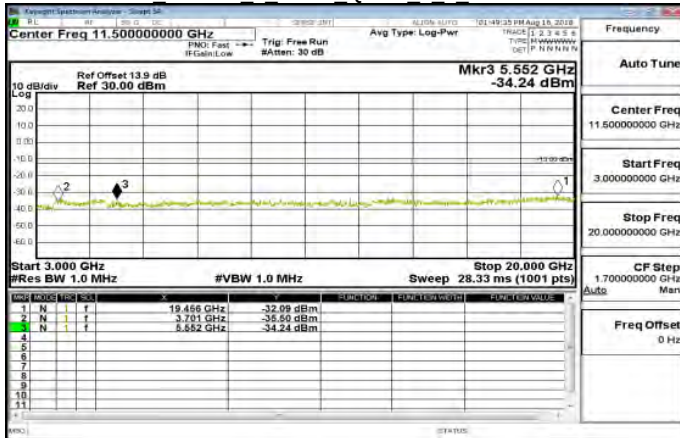
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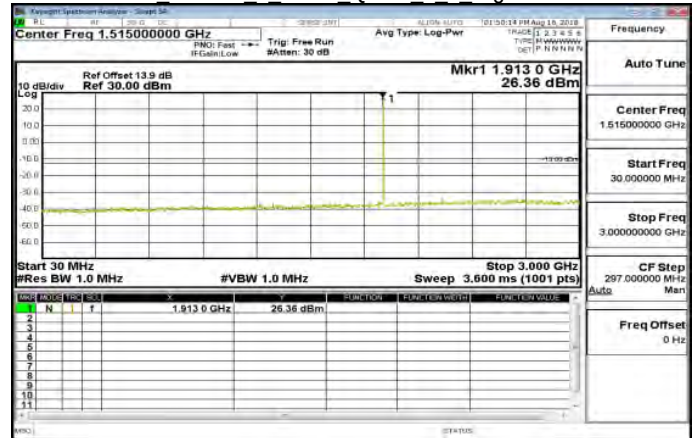
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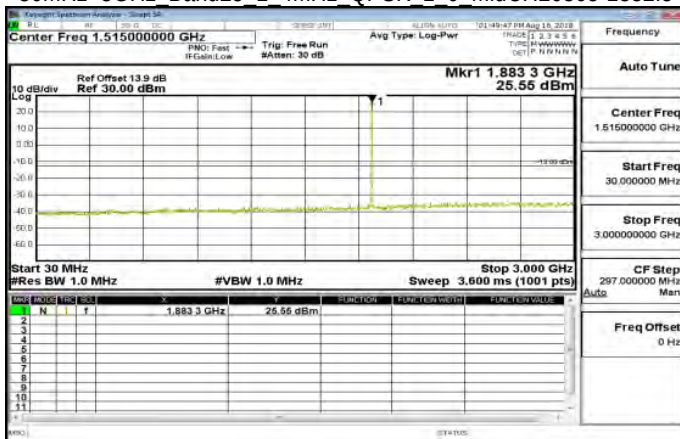
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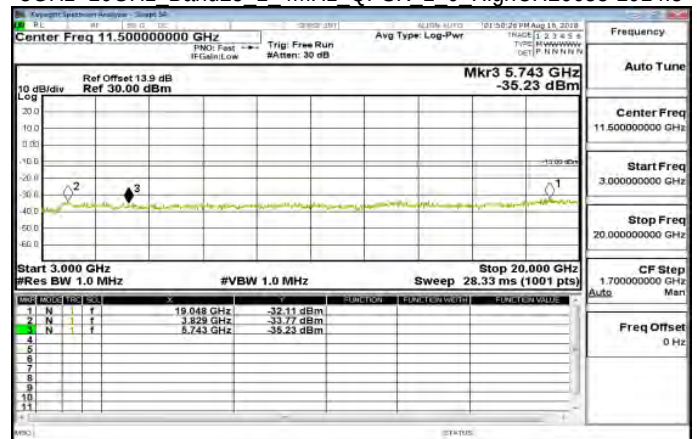
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30MHz~3GHz Band25 1 4MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 1 4MHz QPSK 1 0 HighCH26683-1914.3



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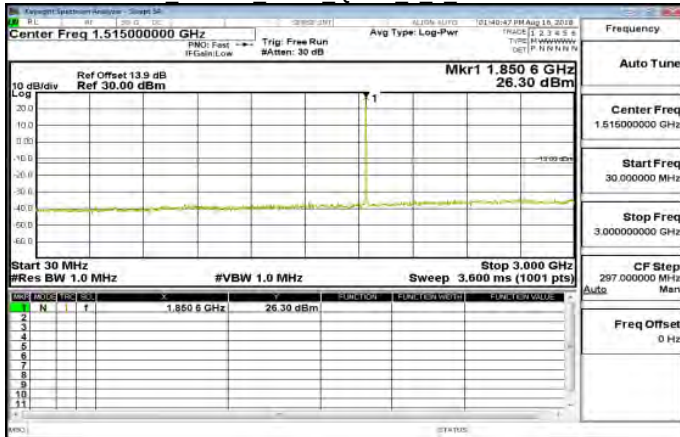
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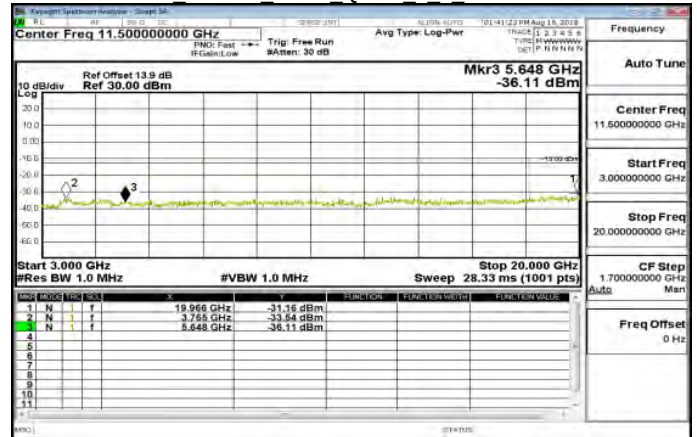
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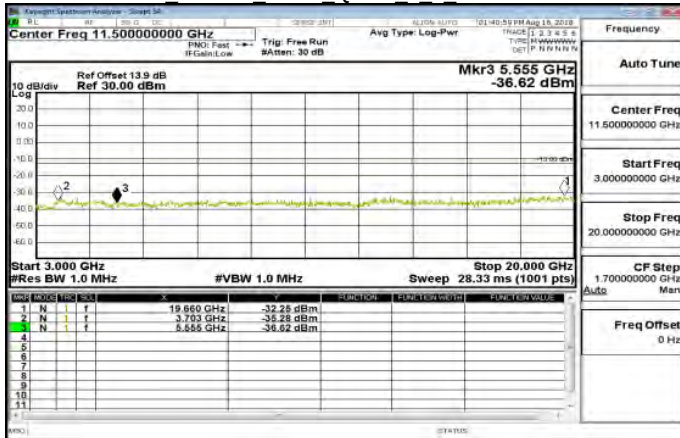
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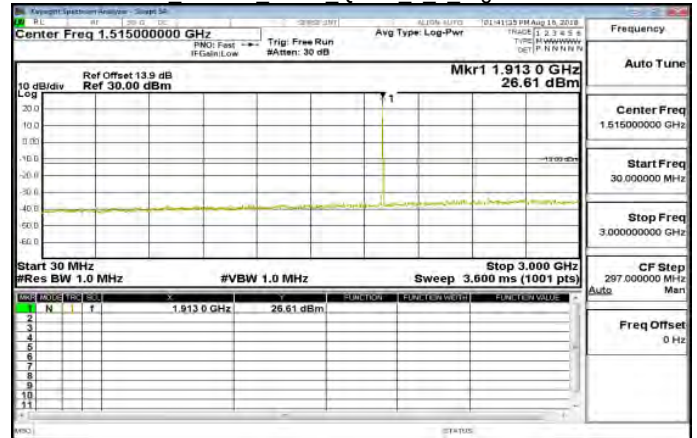
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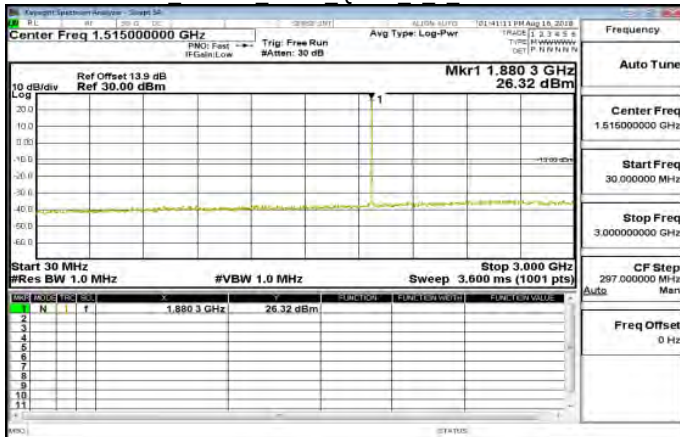
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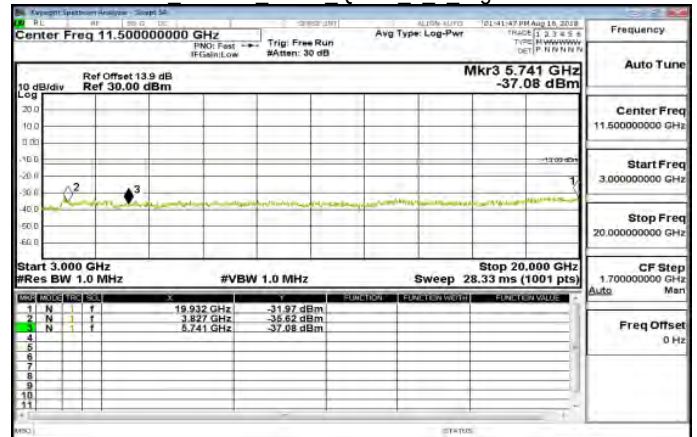
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3GHz~10GHz Band25 3MHz QPSK 1 0 HighCH26675-1913.5



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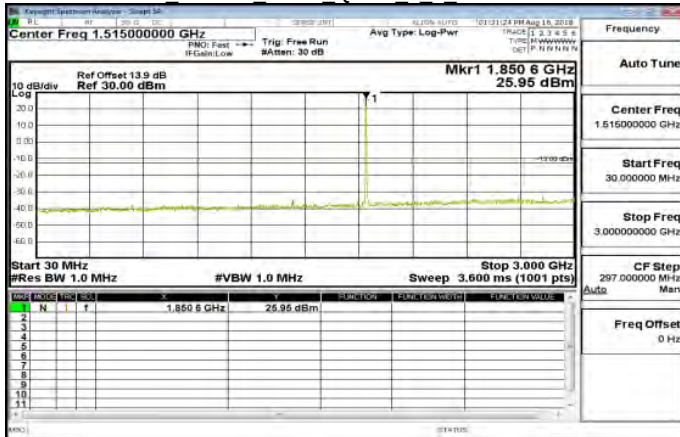
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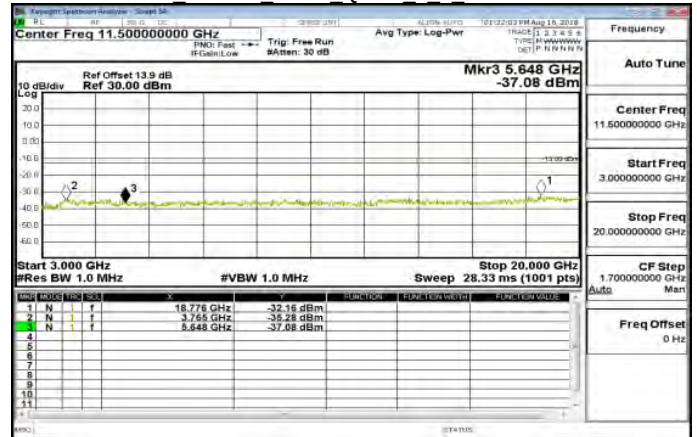
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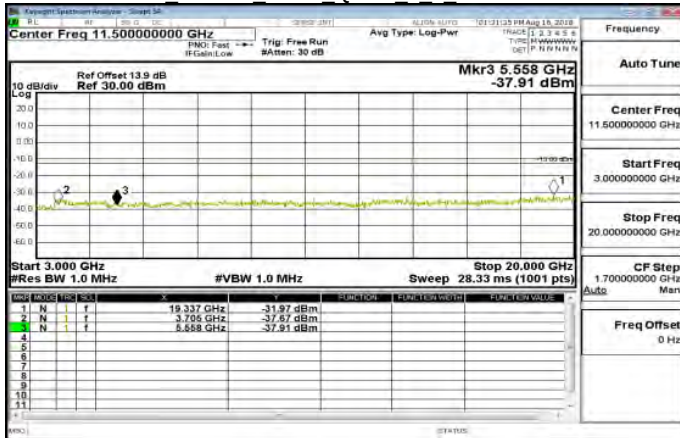
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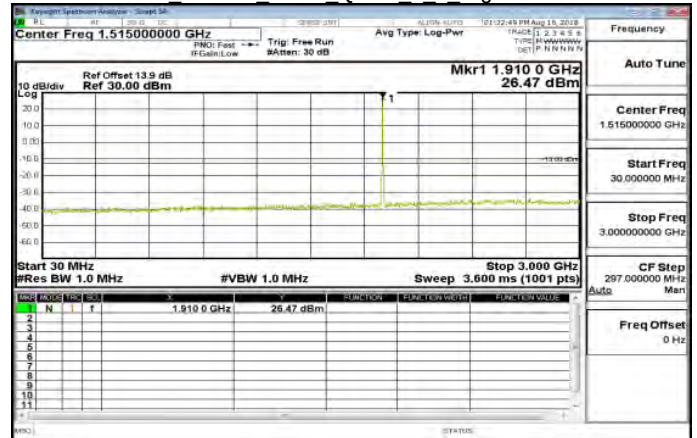
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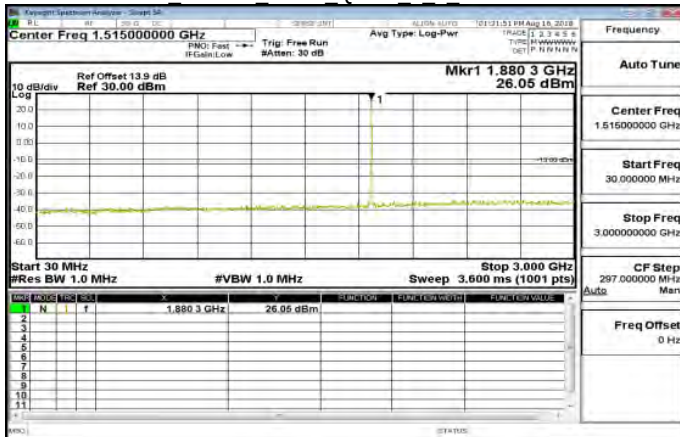
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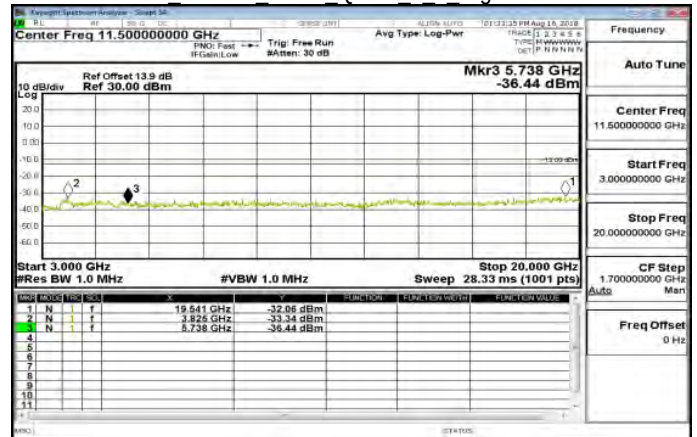
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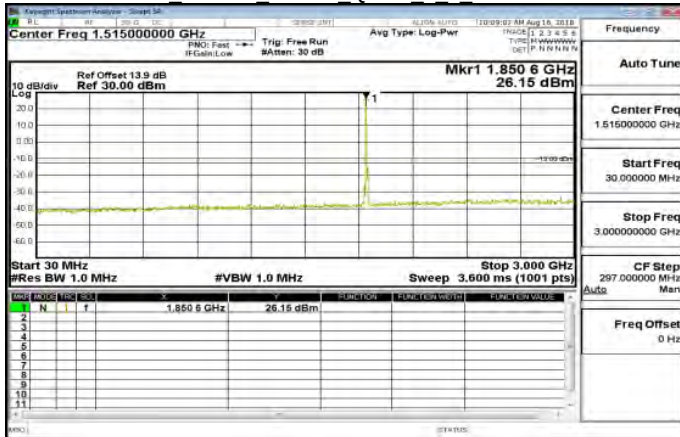
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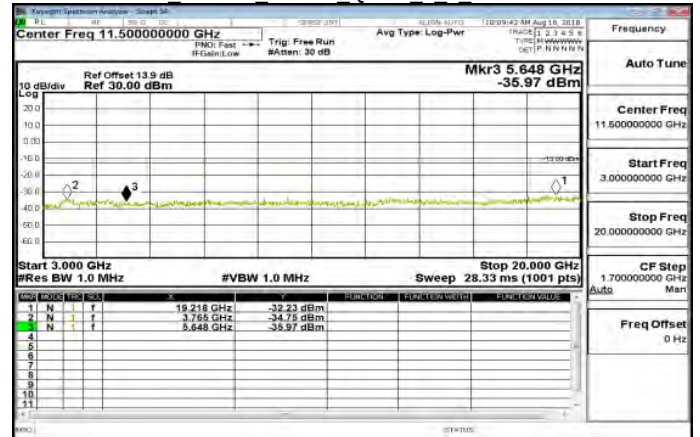
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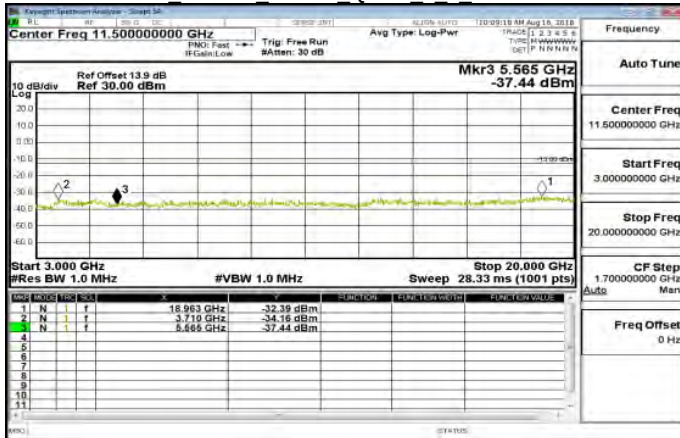
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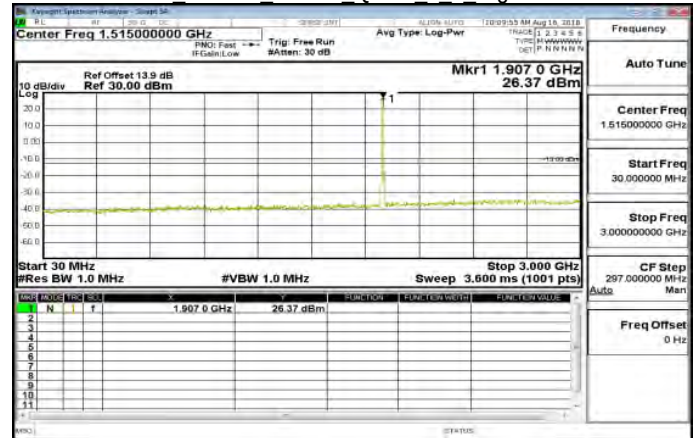
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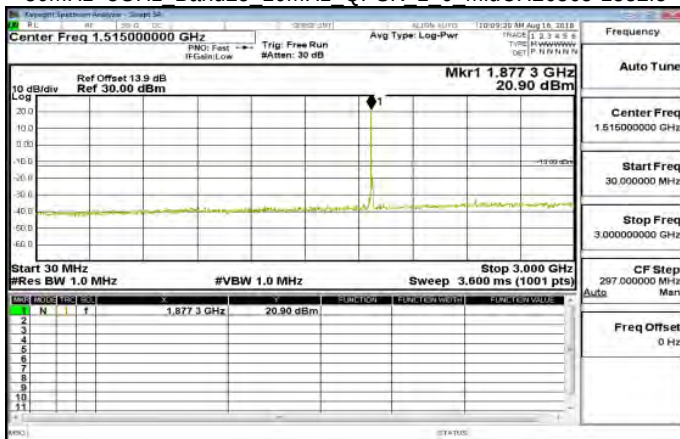
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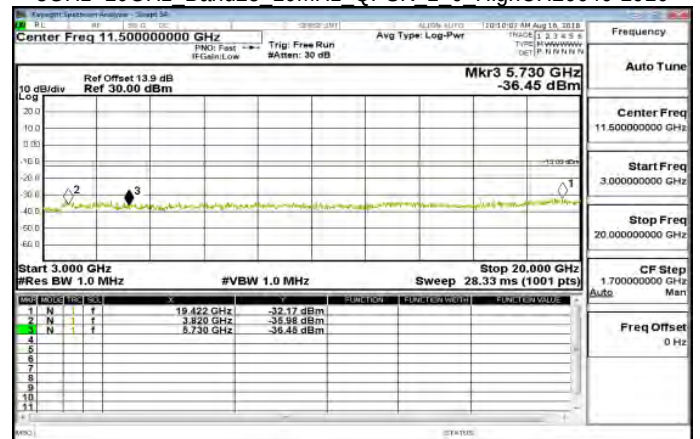
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30MHz~3GHz Band25 10MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 10MHz QPSK 1 0 HighCH26640-1910



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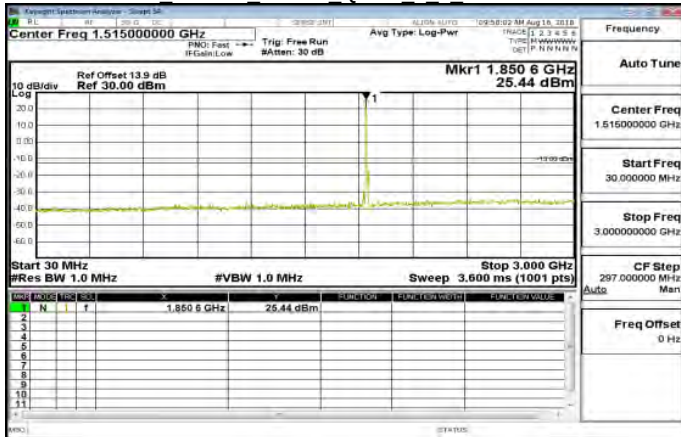
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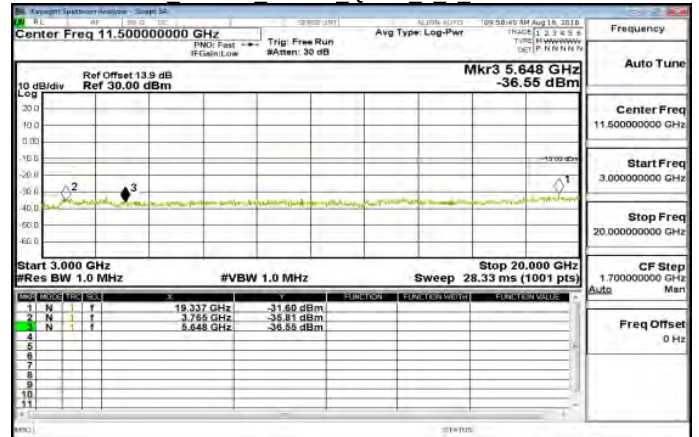
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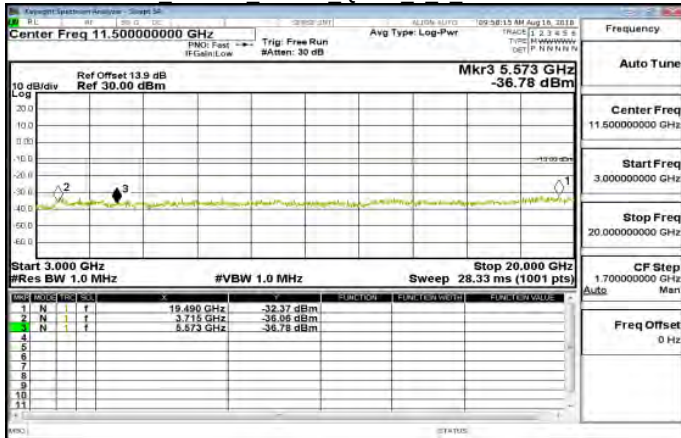
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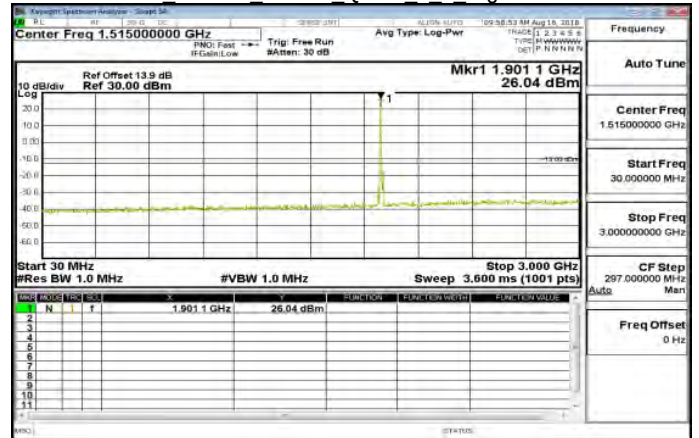
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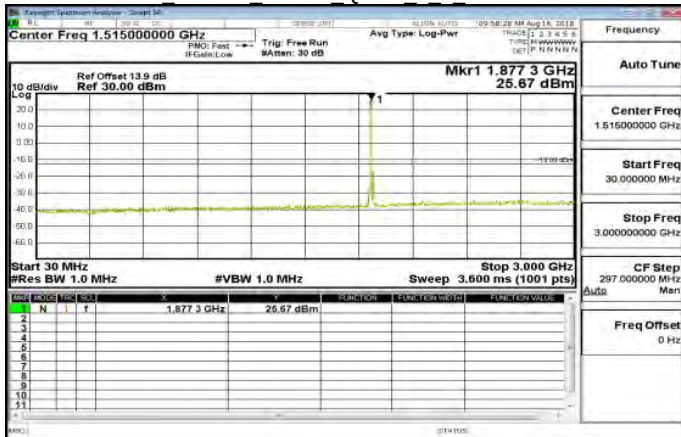
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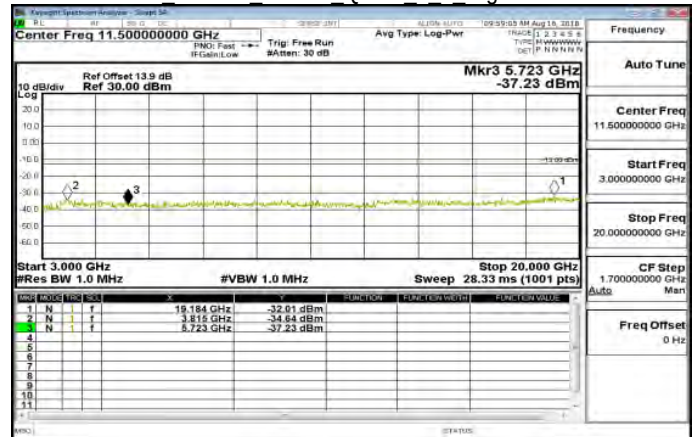
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30MHz~3GHz Band25 15MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 15MHz QPSK 1 0 HighCH26615-1907.5



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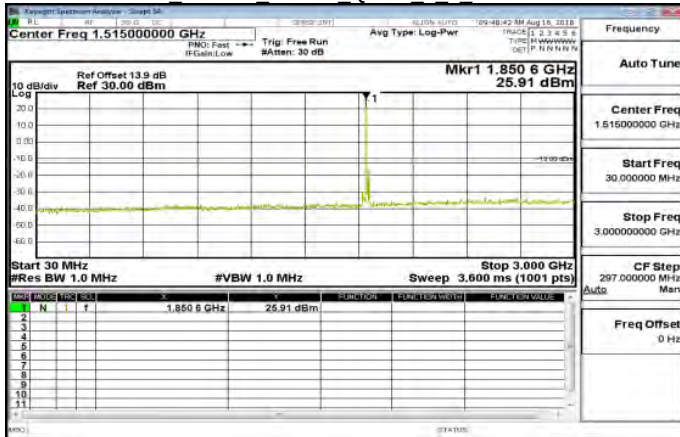
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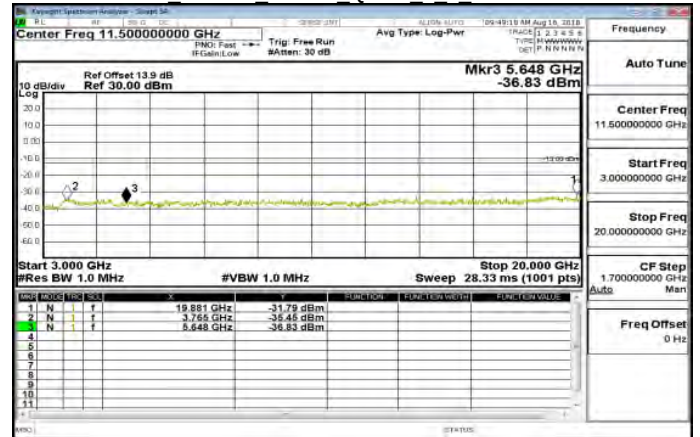
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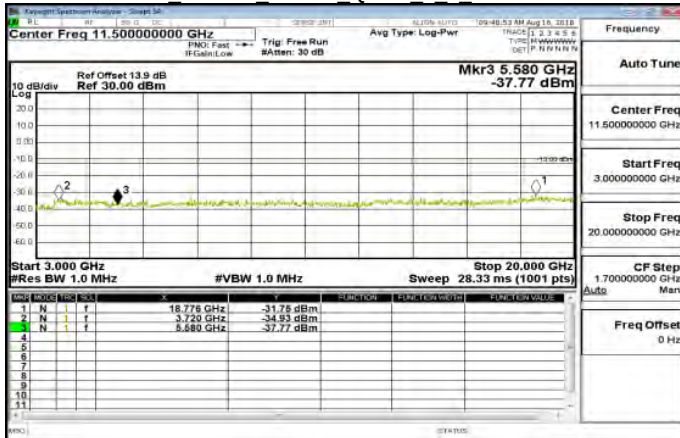
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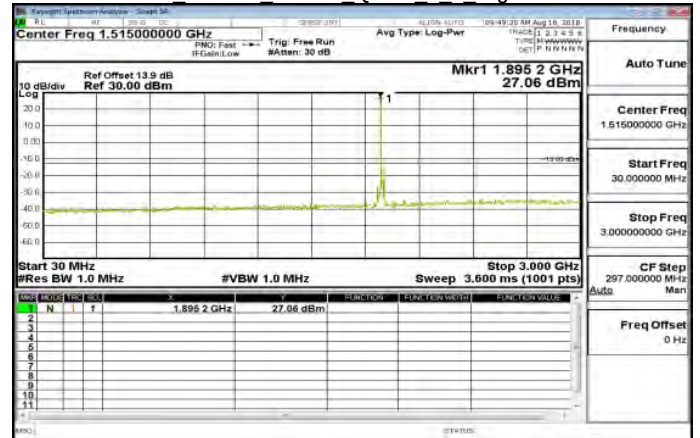
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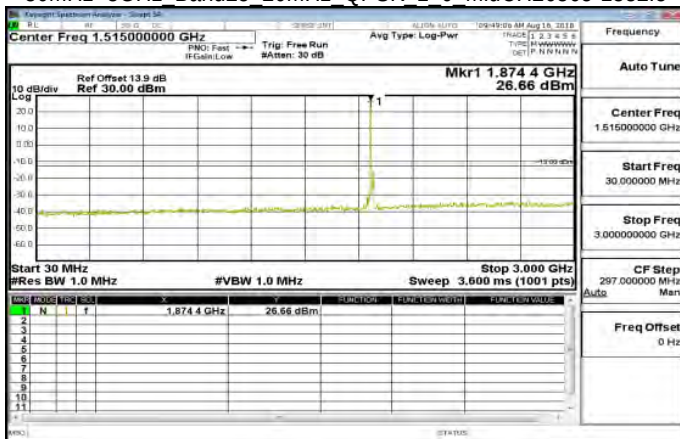
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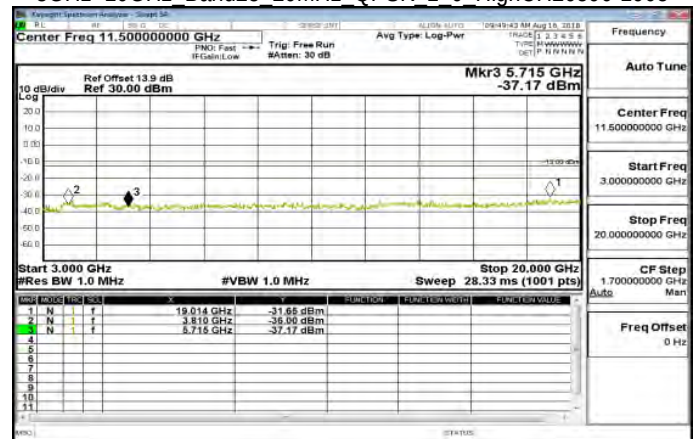
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30MHz~3GHz Band25 20MHz QPSK 1 0 MidCH26365-1882.5



3GHz~10GHz Band25 20MHz QPSK 1 0 HighCH26590-1905



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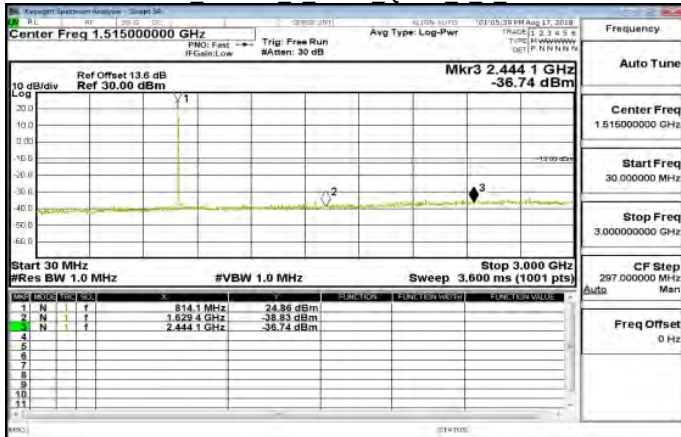
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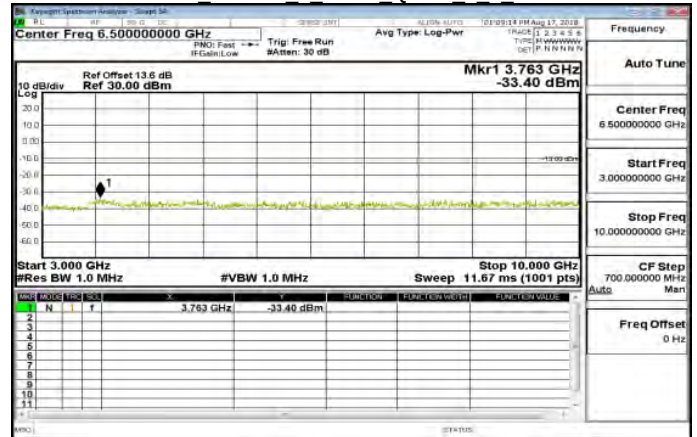
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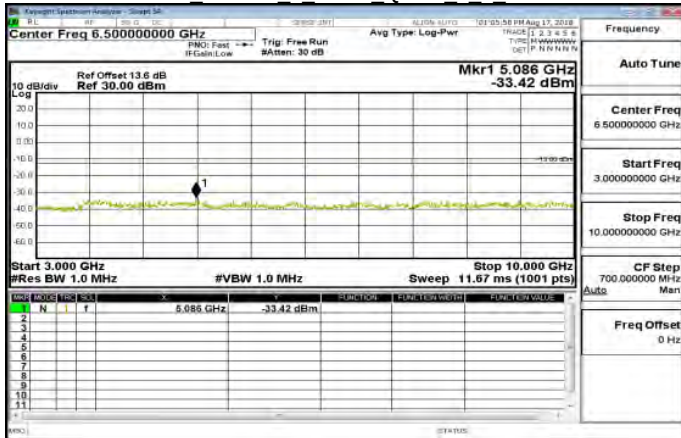
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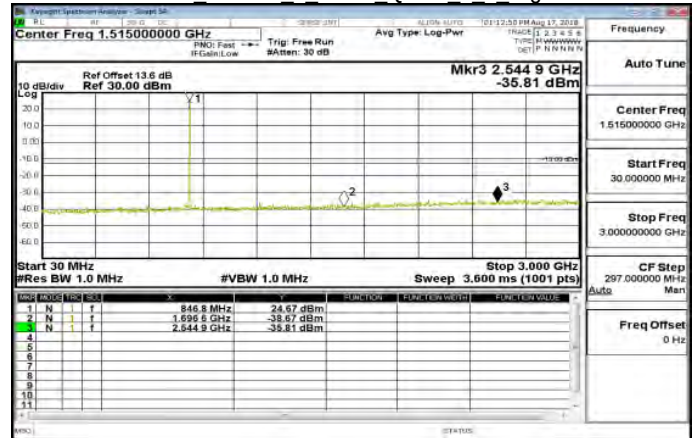
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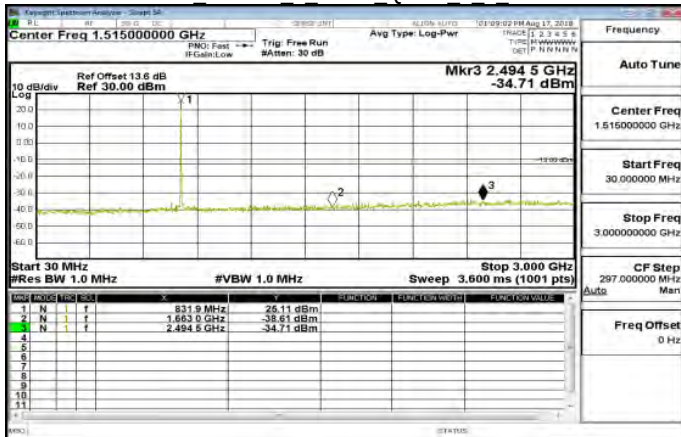
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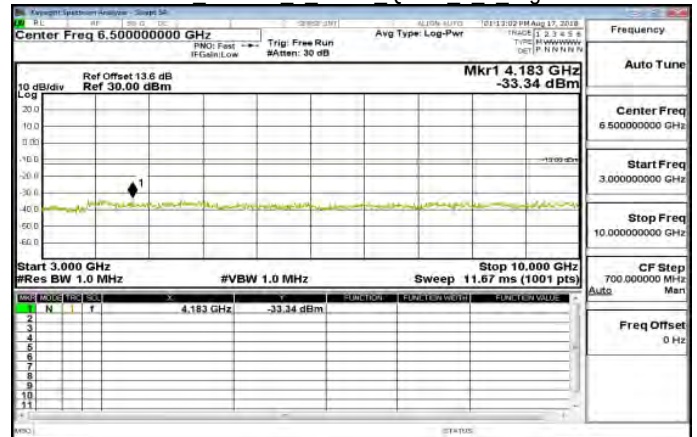
30MHz~3GHz Band26 1 4MHz QPSK 1 0 HighCH27033



30MHz~3GHz Band26 1 4MHz QPSK 1 0 MidCH26865



3GHz~10GHz Band26 1 4MHz QPSK 1 0 HighCH27033



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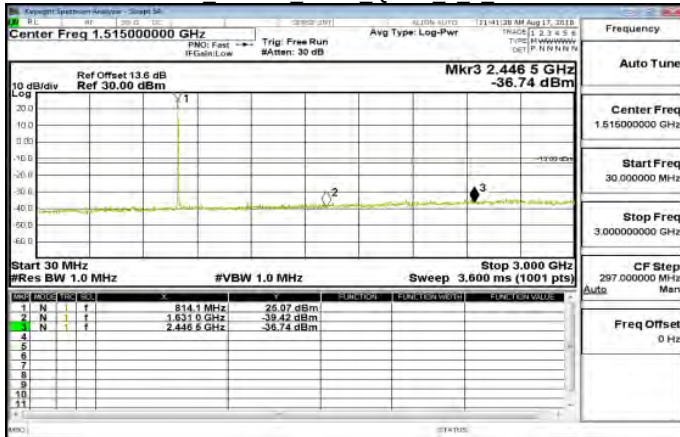
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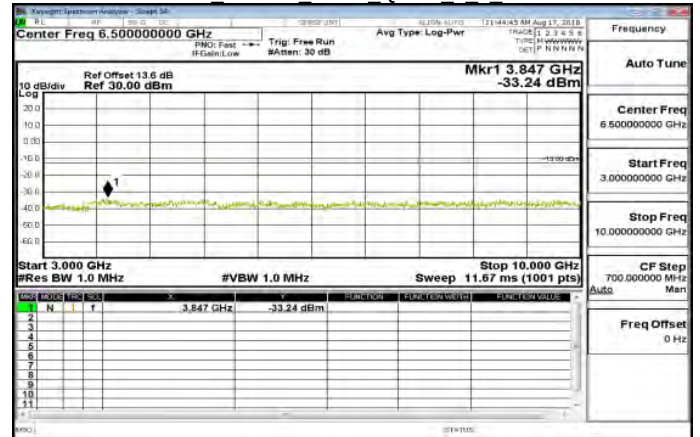
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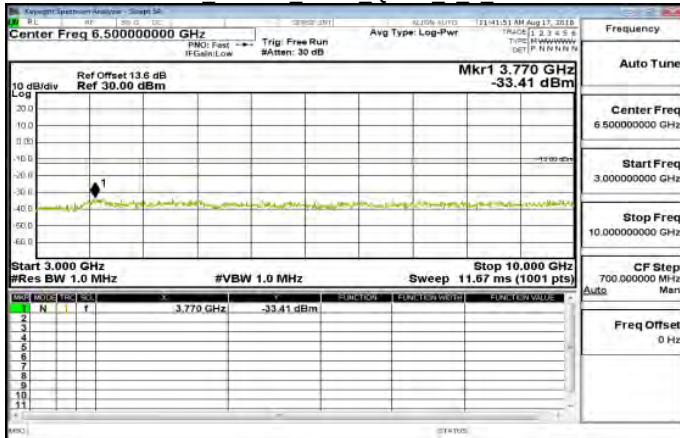
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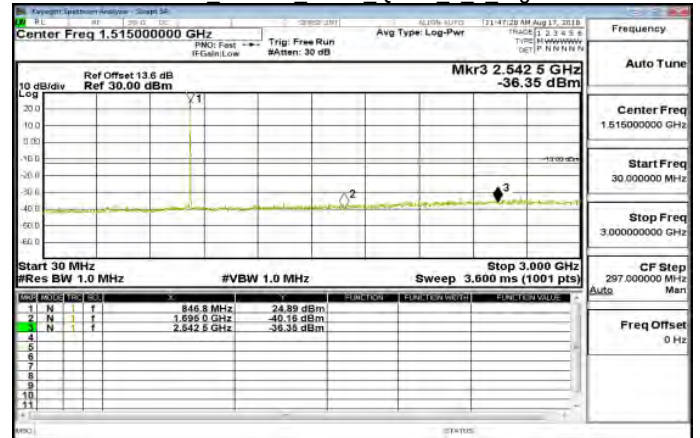
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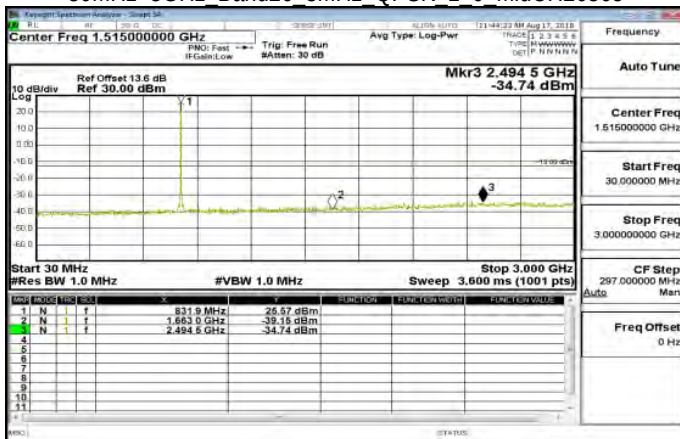
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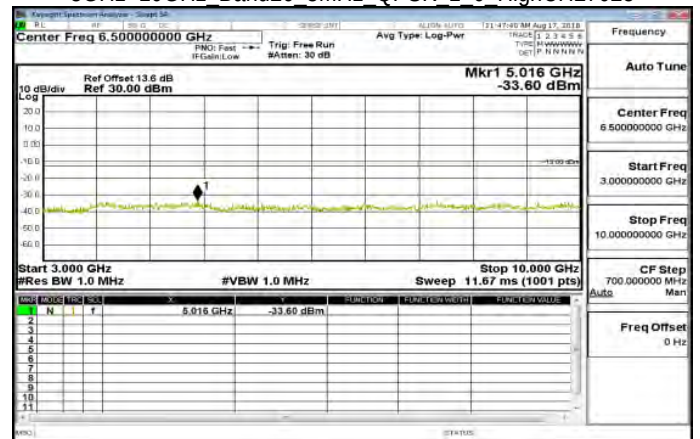
30MHz~3GHz Band26 3MHz QPSK 1 0 HighCH27025



30MHz~3GHz Band26 3MHz QPSK 1 0 MidCH26865



3GHz~10GHz Band26 3MHz QPSK 1 0 HighCH27025



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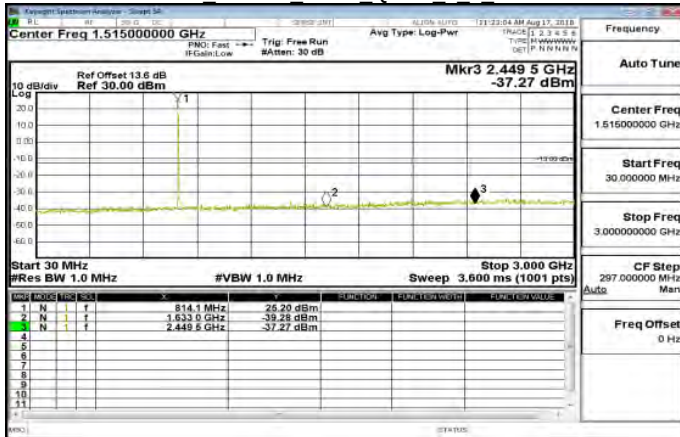
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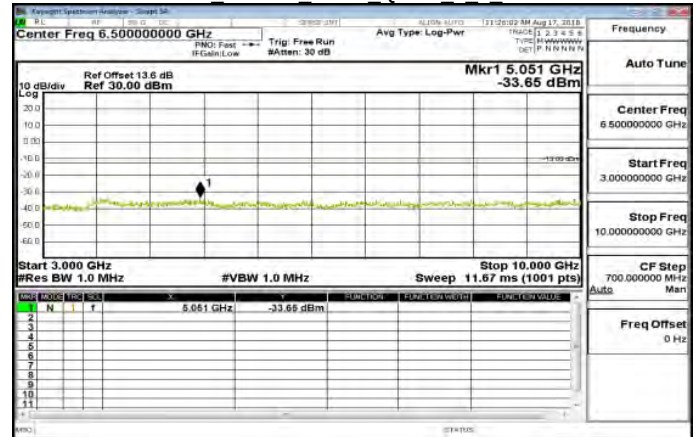
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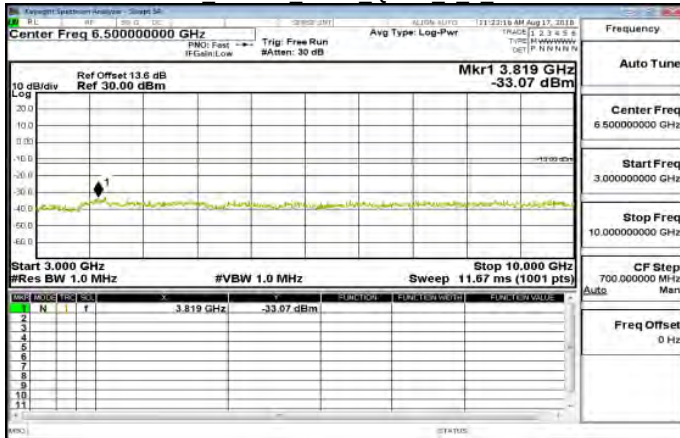
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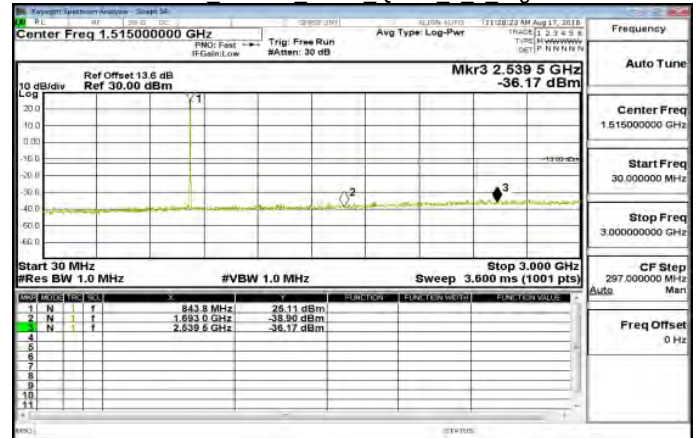
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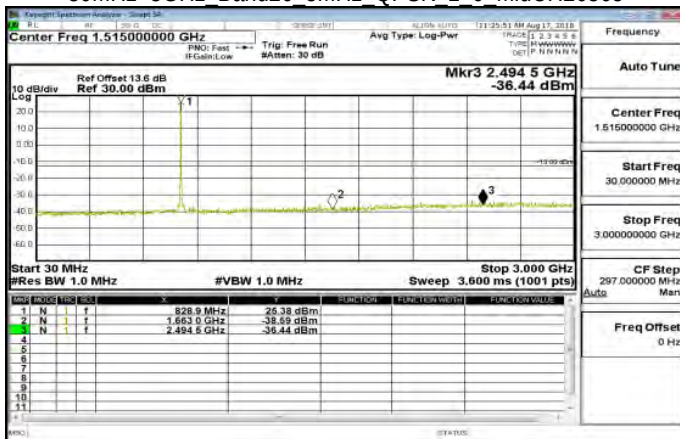
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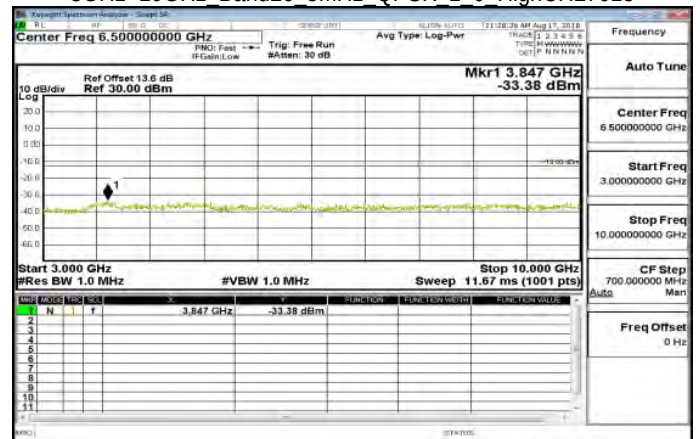
30MHz~3GHz Band26 5MHz QPSK 1 0 HighCH27015



30MHz~3GHz Band26 5MHz QPSK 1 0 MidCH26865



3GHz~10GHz Band26 5MHz QPSK 1 0 HighCH27015



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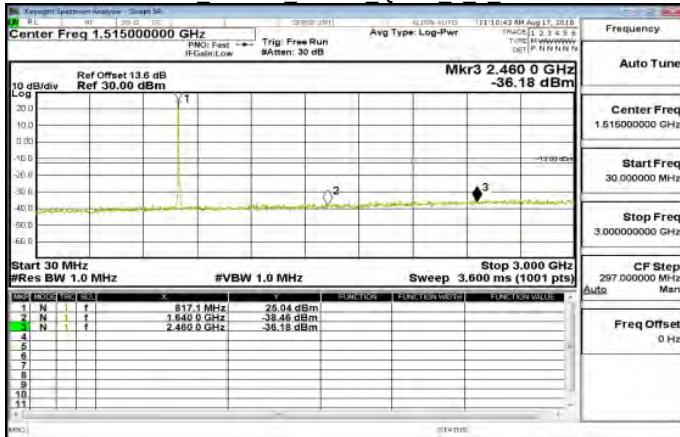
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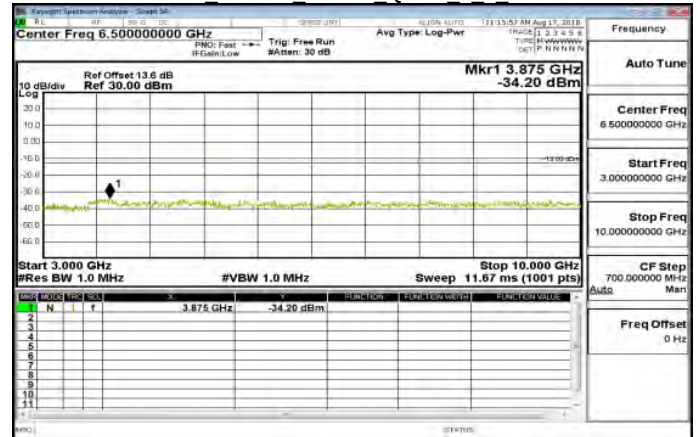
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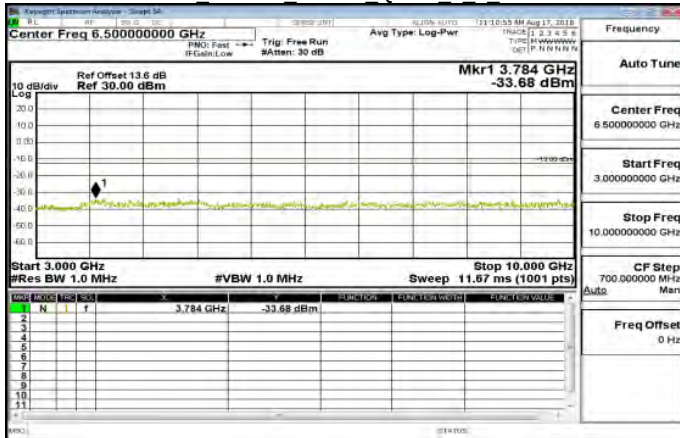
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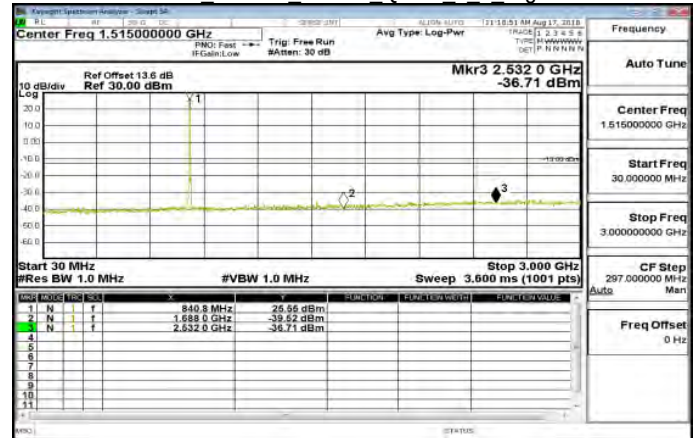
3GHz~10GHz Band26 10MHz QPSK 1 0 MidCH26865



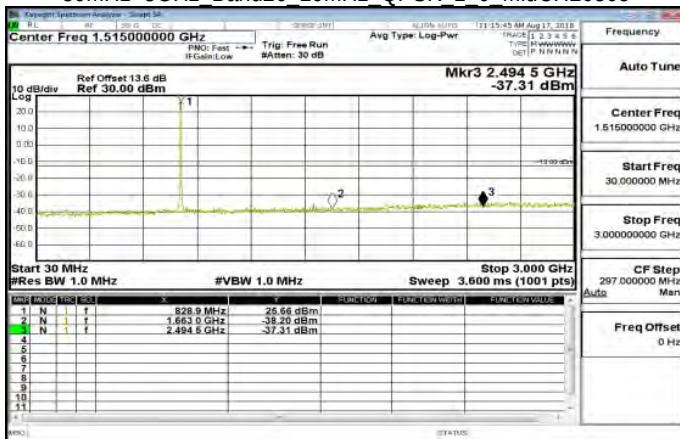
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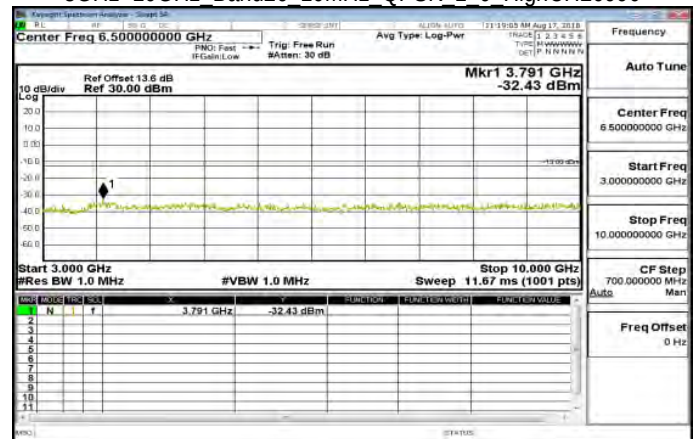
30MHz~3GHz Band26 10MHz QPSK 1 0 HighCH26990



30MHz~3GHz Band26 10MHz QPSK 1 0 MidCH26865



3GHz~10GHz Band26 10MHz QPSK 1 0 HighCH26990



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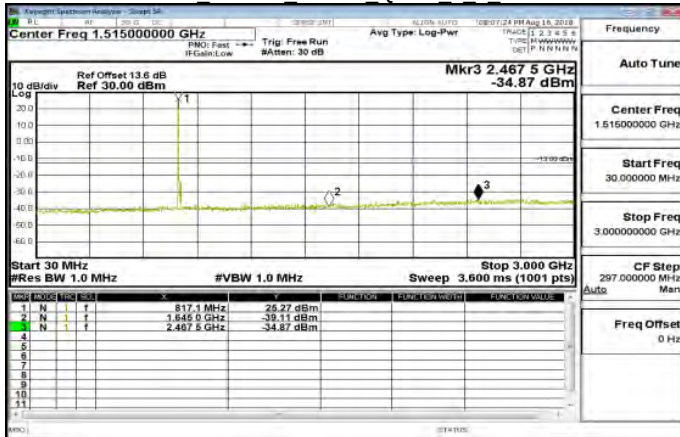
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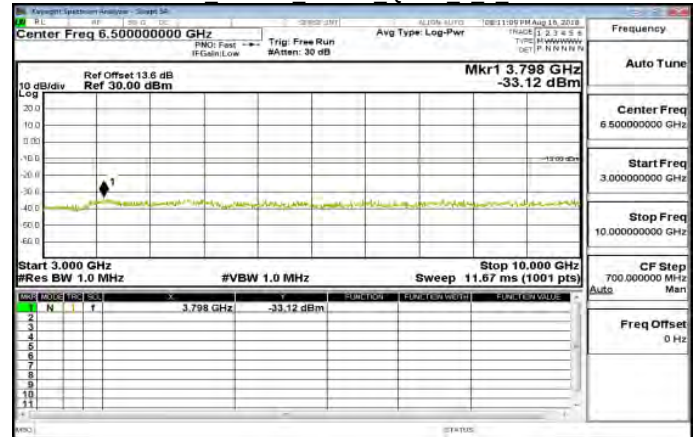
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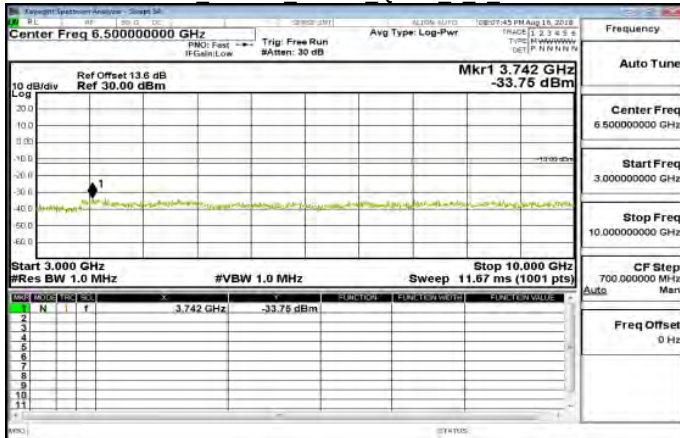
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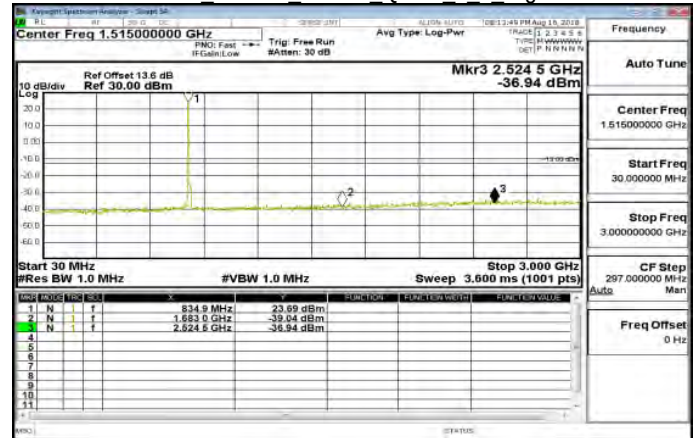
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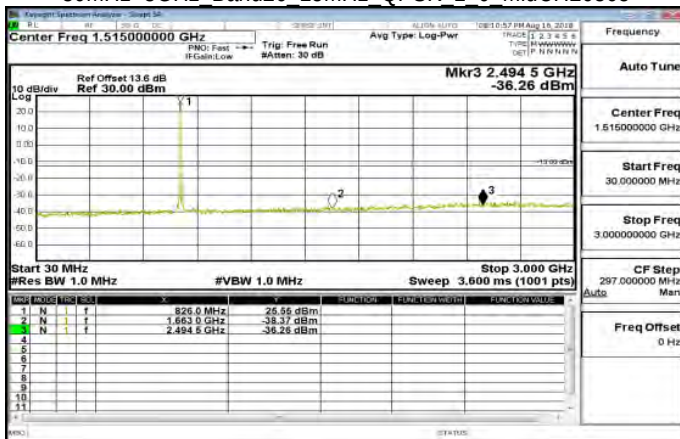
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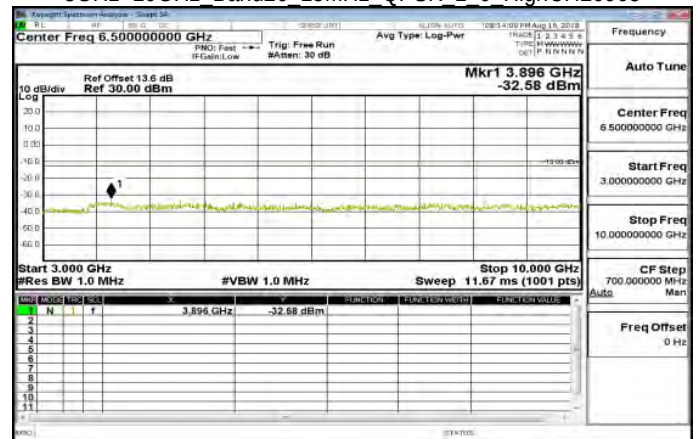
30MHz~3GHz Band26 15MHz QPSK 1 0 HighCH26965



30MHz~3GHz Band26 15MHz QPSK 1 0 MidCH26865



3GHz~10GHz Band26 15MHz QPSK 1 0 HighCH26965



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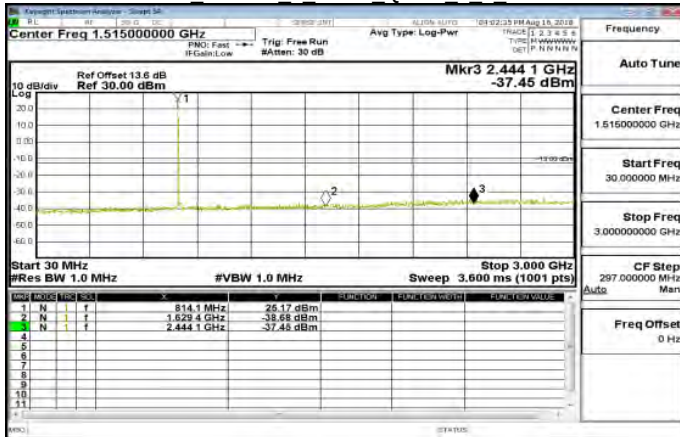
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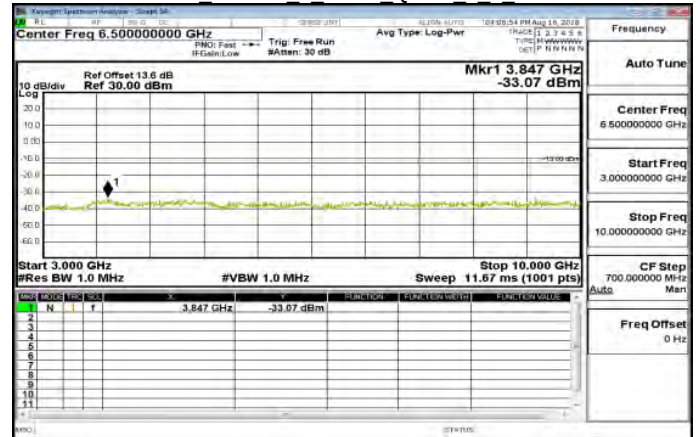
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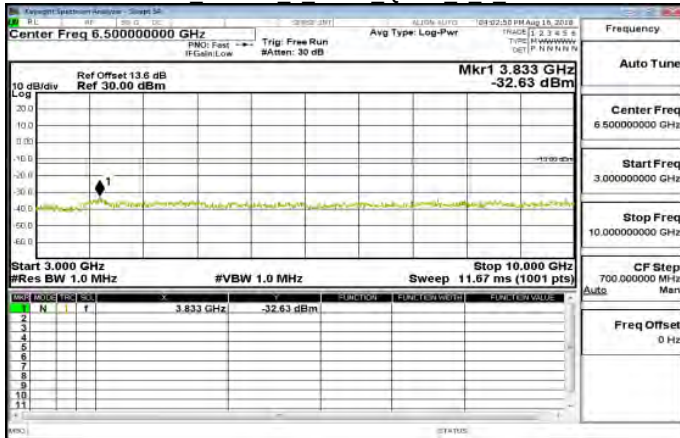
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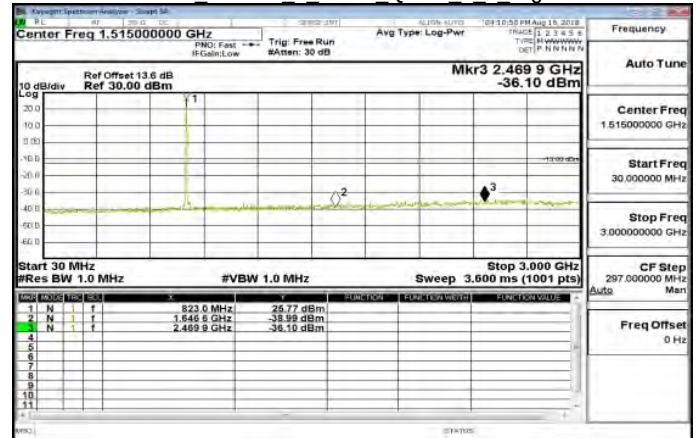
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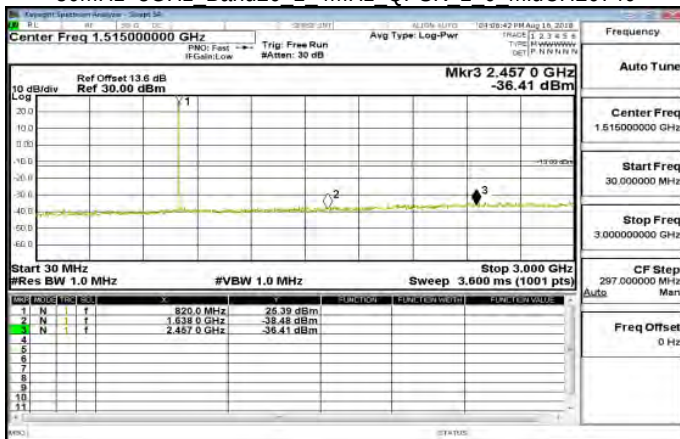
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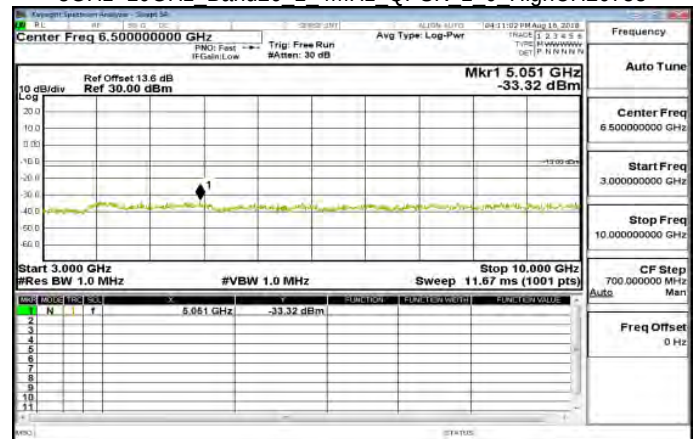
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30MHz~3GHz Band26 1 4MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 1 4MHz QPSK 1 0 HighCH26783



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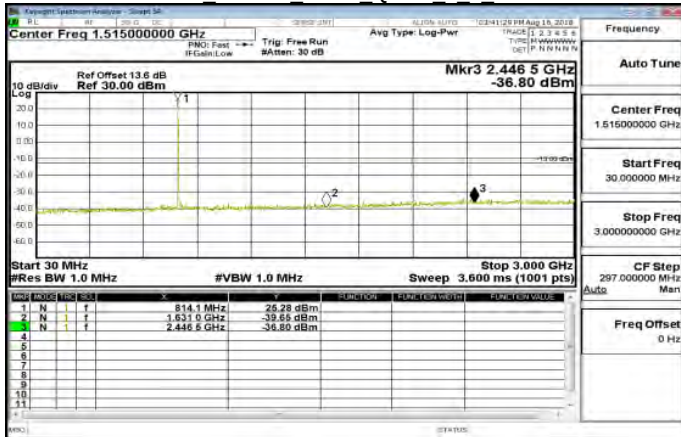
t (886-2) 2299-3279

f (886-2) 2298-0488

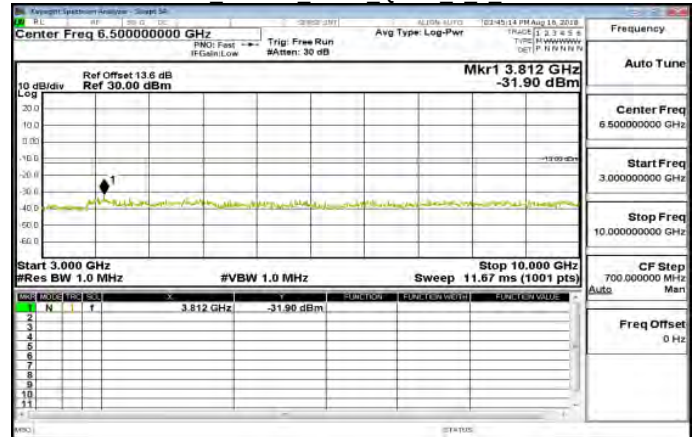
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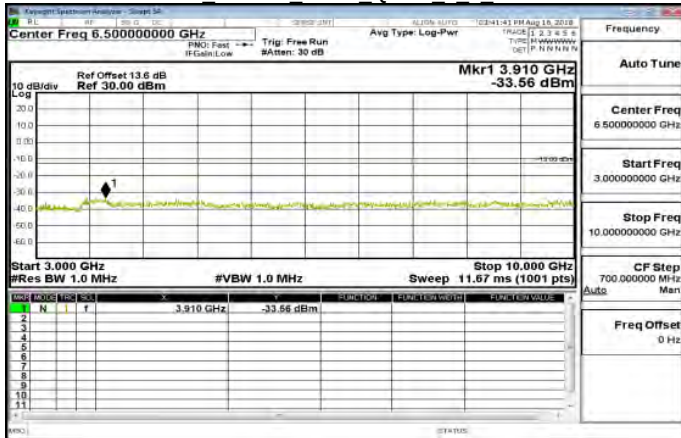
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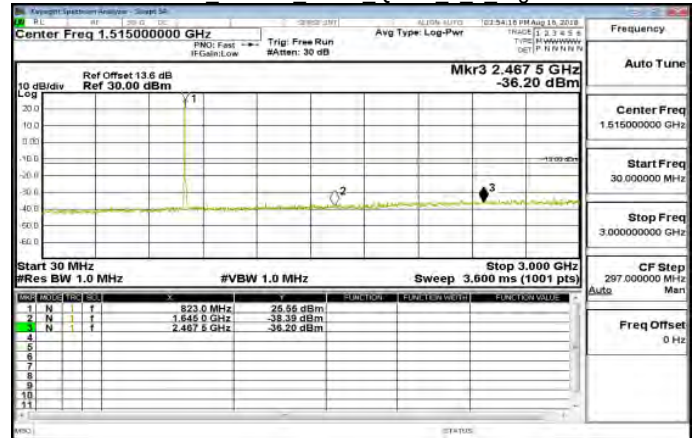
3GHz~10GHz Band26 3MHz QPSK 1 0 MidCH26740



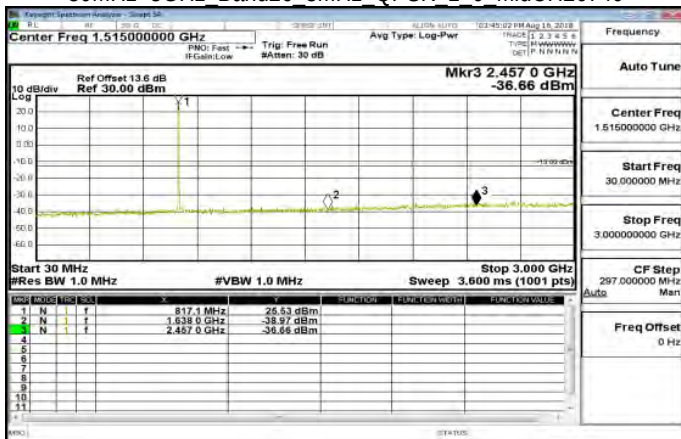
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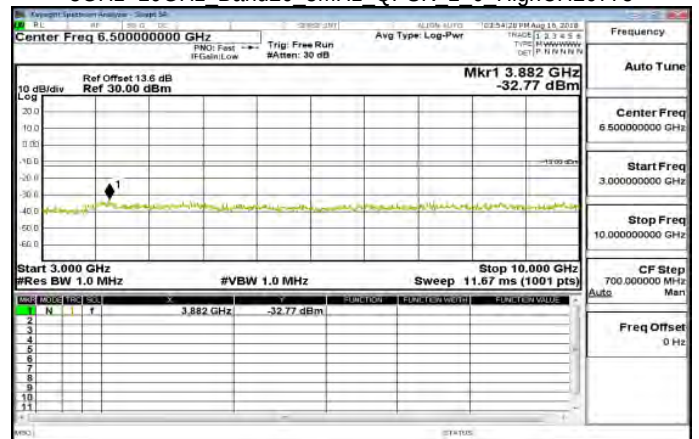
30MHz~3GHz Band26 3MHz QPSK 1 0 HighCH26775



30MHz~3GHz Band26 3MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 3MHz QPSK 1 0 HighCH26775



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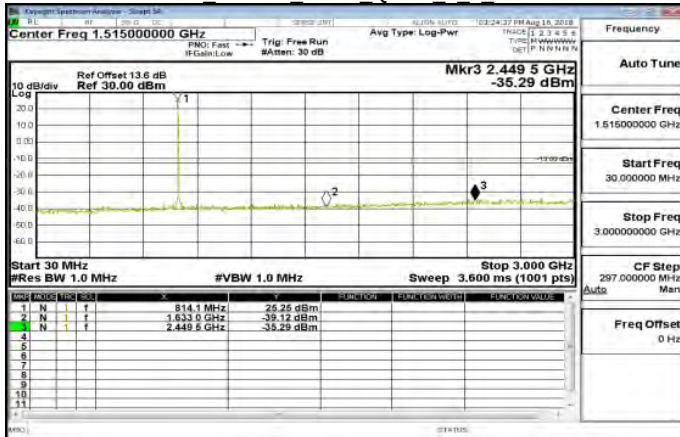
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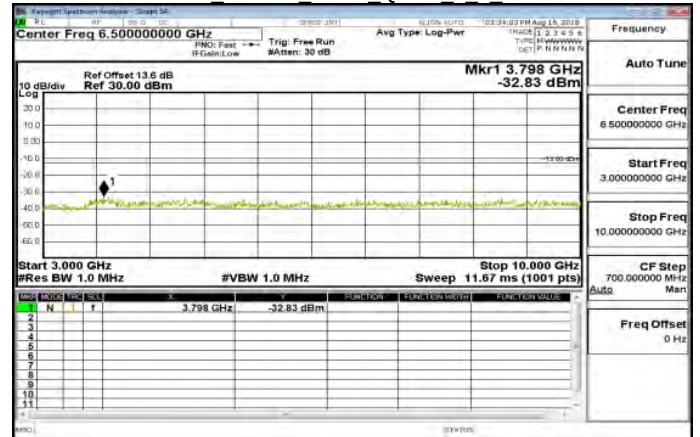
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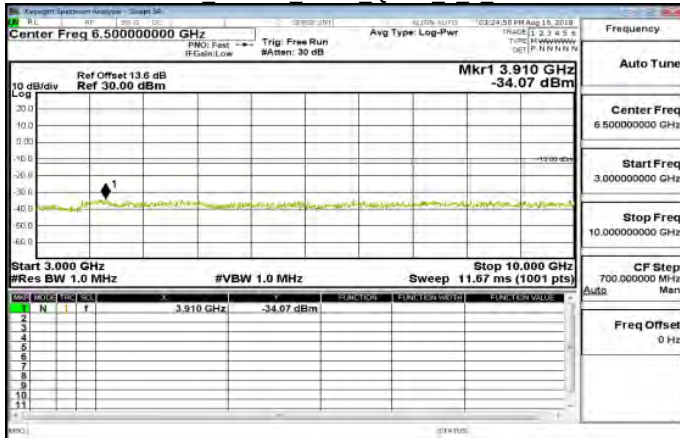
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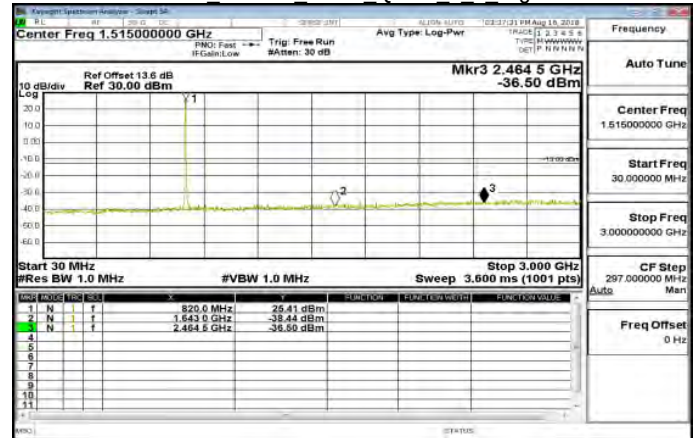
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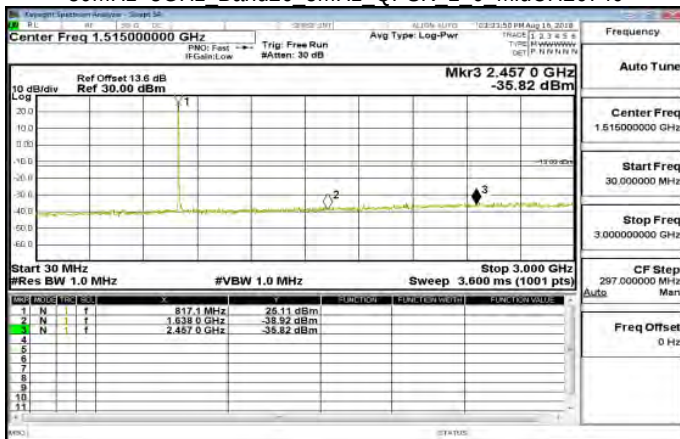
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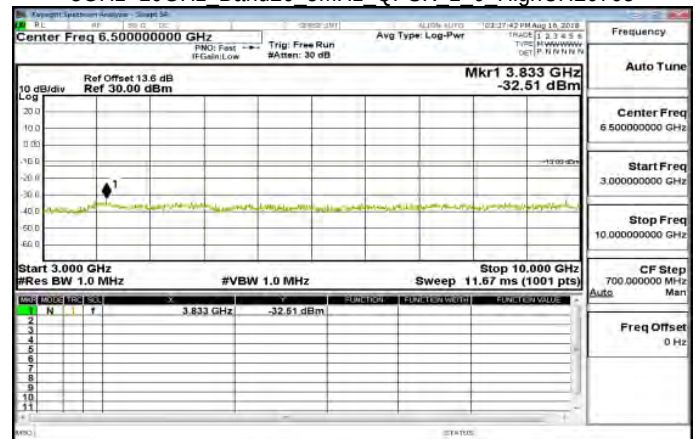
30MHz~3GHz Band26 5MHz QPSK 1 0 HighCH26765



30MHz~3GHz Band26 5MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 5MHz QPSK 1 0 HighCH26765



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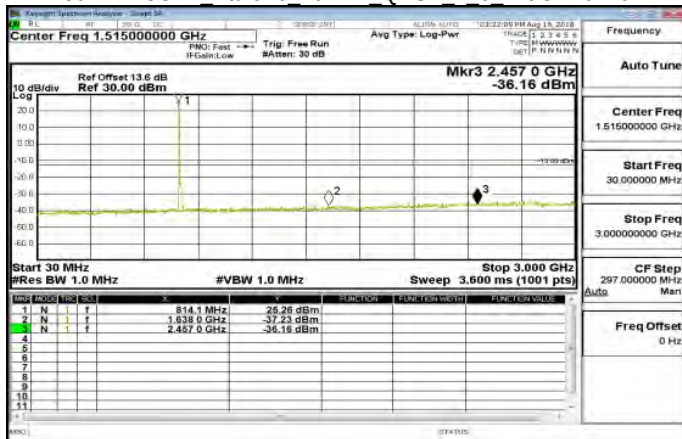
t (886-2) 2299-3279

f (886-2) 2298-0488

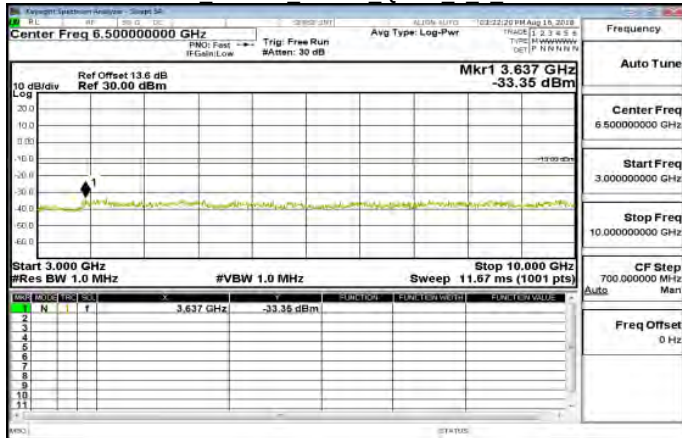
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30MHz~3GHz Band26 10MHz QPSK 1 0 MidCH26740



3GHz~10GHz Band26 10MHz QPSK 1 0 MidCH26740



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053, FCC §22.917(a), §24.238(a), §27.53 (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 licensee's frequency block (-13dBm).

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC 27.53(a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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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 1.2 for the permitted frequency ranges for various equipment types.

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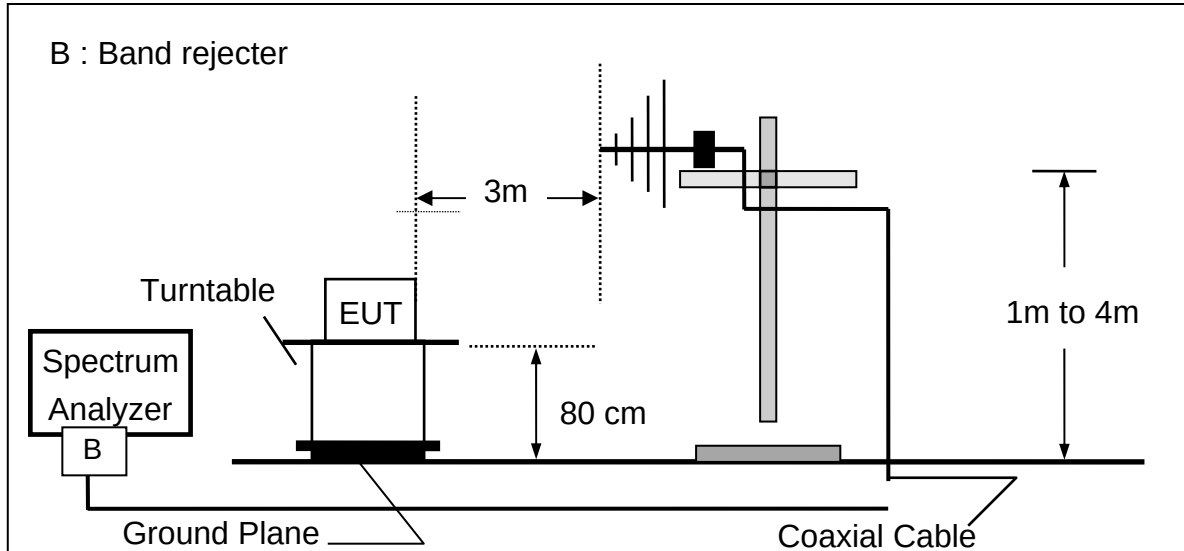
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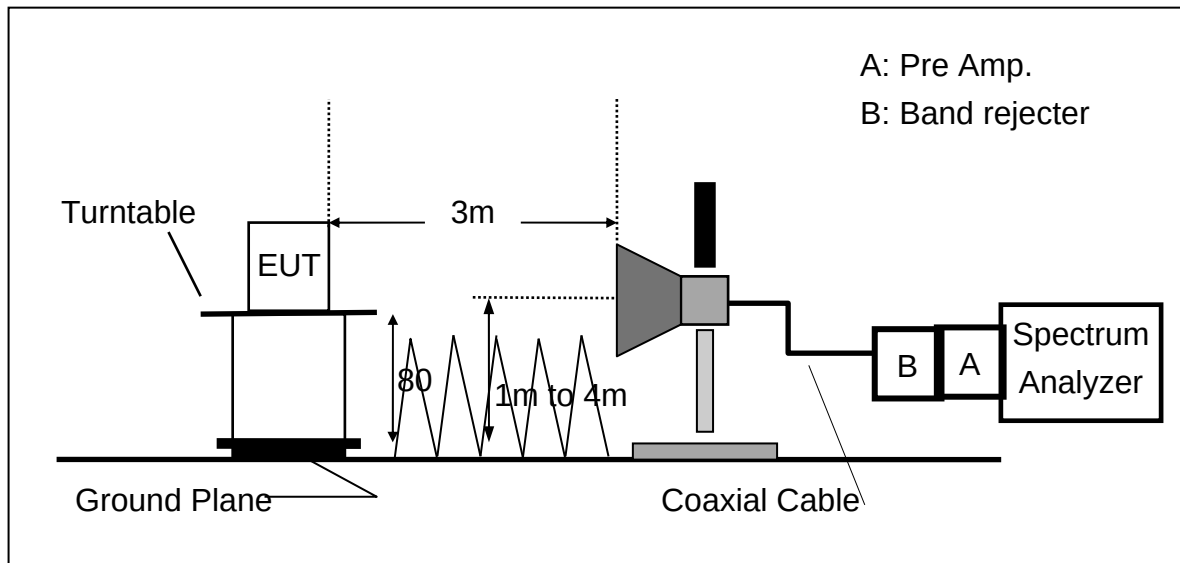
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9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. 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.

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

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

9.4. Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	2017/10/27	2018/10/26
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Loop Antenna	ETS.LINDGREN	6502	148045	2017/09/26	2018/09/25
3m Site NSA	SGS	966 chamber D	N/A	2018/07/06	2019/07/05
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Pre-Amplifier	EMC Instruments	EMC9135	980234	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25

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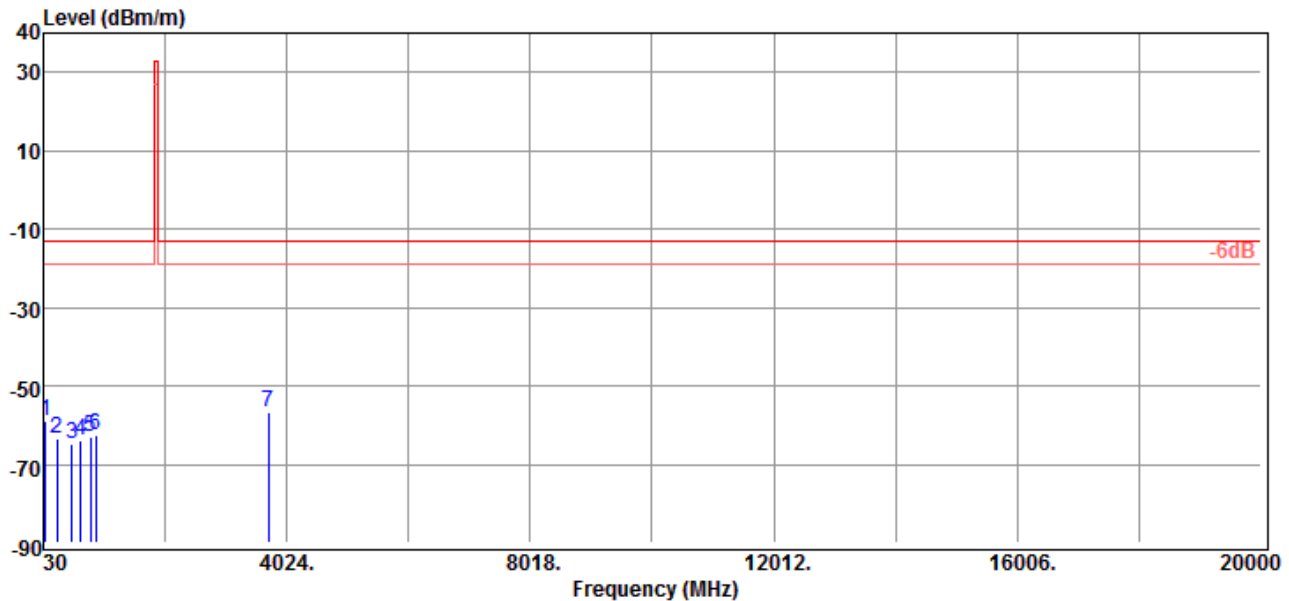
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9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.07	-58.87	-57.40	-0.82	-0.65	-13.00	-45.87
252.13	-63.28	-67.03	5.20	-1.45	-13.00	-50.28
506.27	-64.75	-68.44	6.28	-2.59	-13.00	-51.75
642.07	-63.80	-68.17	6.84	-2.47	-13.00	-50.80
808.91	-63.01	-68.14	7.56	-2.43	-13.00	-50.01
895.24	-62.65	-67.80	7.58	-2.43	-13.00	-49.65
3720.00	-56.92	-62.64	12.44	-6.72	-13.00	-43.92

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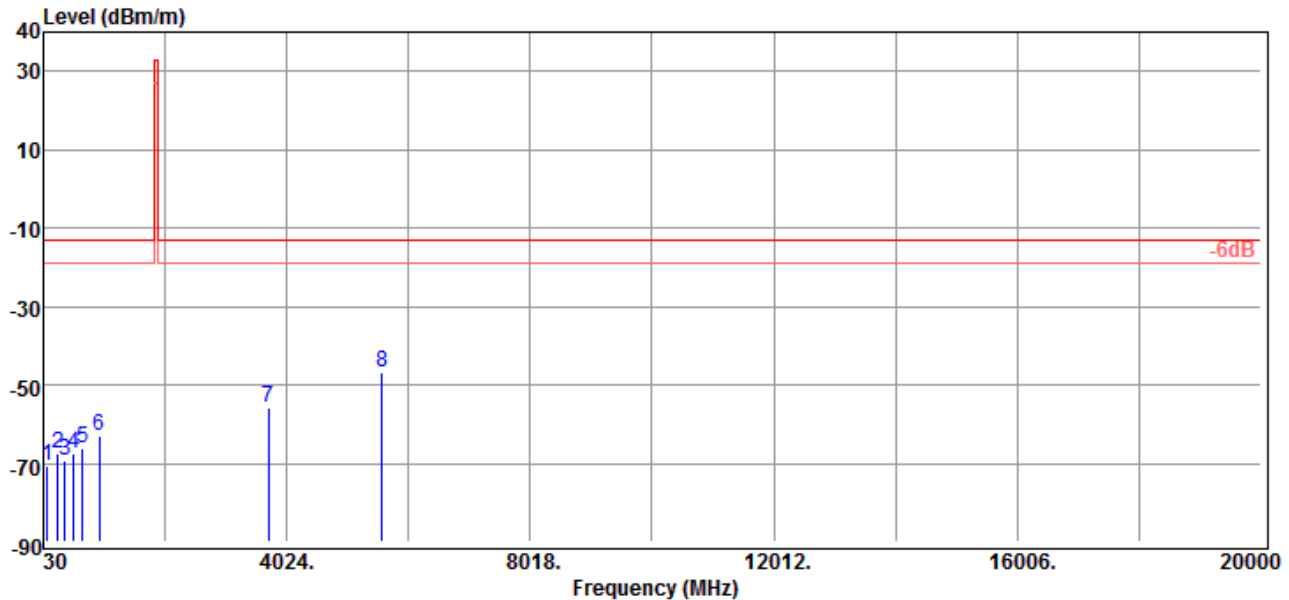
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Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	-70.44	-69.74	0.11	-0.81	-13.00	-57.44
272.50	-67.71	-71.68	5.49	-1.52	-13.00	-54.71
382.11	-69.34	-72.96	5.63	-2.01	-13.00	-56.34
535.37	-67.70	-71.51	6.24	-2.43	-13.00	-54.70
673.11	-66.22	-70.88	7.08	-2.42	-13.00	-53.22
948.59	-63.14	-68.08	7.66	-2.72	-13.00	-50.14
3720.00	-56.00	-61.72	12.44	-6.72	-13.00	-43.00
5580.00	-46.99	-53.52	13.02	-6.49	-13.00	-33.99

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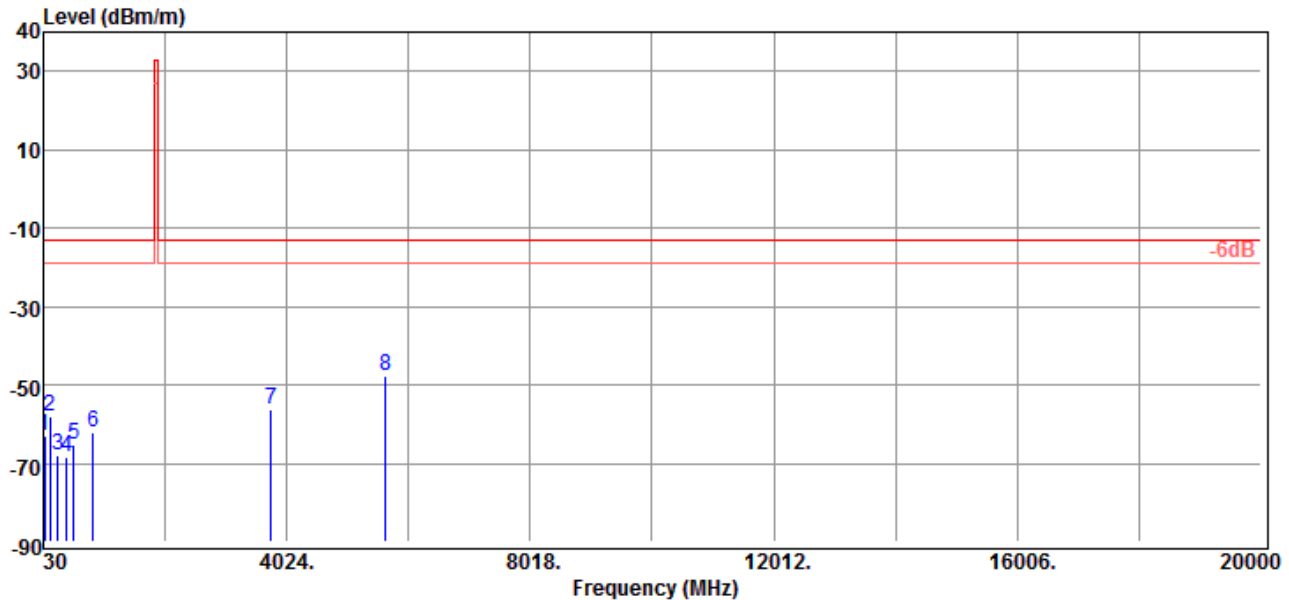
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Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-62.91	-58.89	-3.36	-0.66	-13.00	-49.91
132.82	-58.19	-58.74	1.50	-0.95	-13.00	-45.19
263.77	-68.14	-72.02	5.37	-1.49	-13.00	-55.14
410.24	-68.22	-71.84	5.66	-2.04	-13.00	-55.22
534.40	-65.34	-69.15	6.24	-2.43	-13.00	-52.34
839.95	-62.20	-67.33	7.51	-2.38	-13.00	-49.20
3760.00	-56.38	-62.17	12.46	-6.67	-13.00	-43.38
5640.00	-47.82	-54.25	13.03	-6.60	-13.00	-34.82

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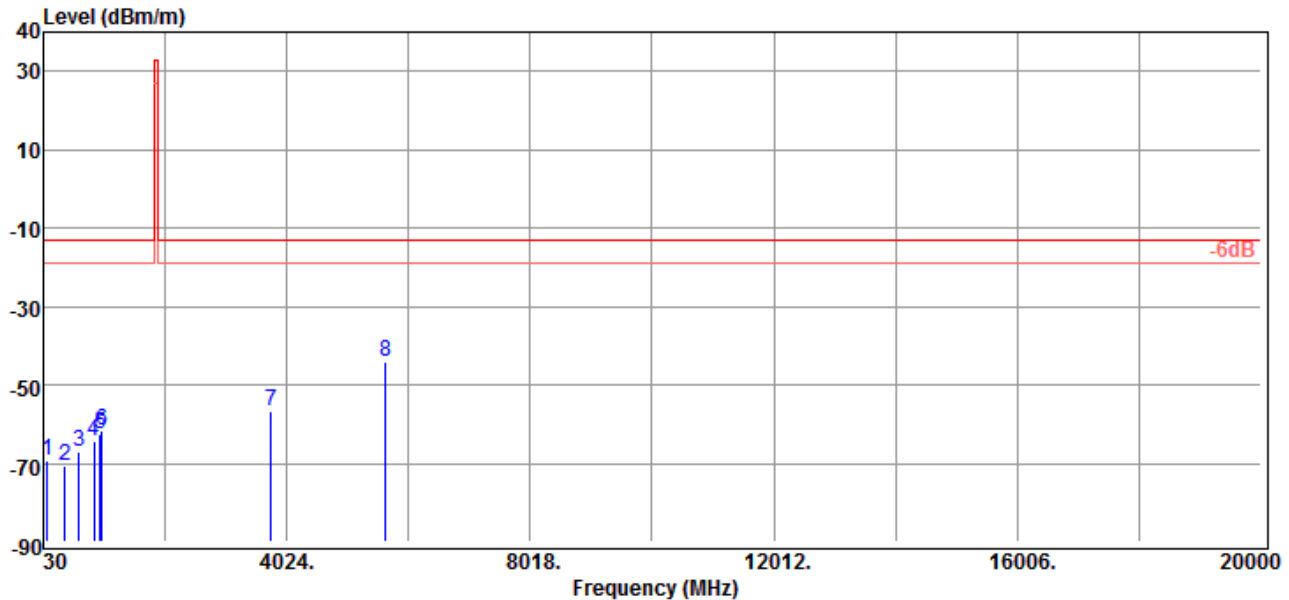
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Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.78	-69.40	-67.79	-0.74	-0.87	-13.00	-56.40
388.90	-70.82	-74.40	5.60	-2.02	-13.00	-57.82
612.00	-66.90	-71.40	6.72	-2.22	-13.00	-53.90
858.38	-64.19	-69.34	7.52	-2.37	-13.00	-51.19
955.38	-62.67	-67.59	7.68	-2.76	-13.00	-49.67
994.18	-61.68	-66.51	7.79	-2.96	-13.00	-48.68
3760.00	-56.76	-62.55	12.46	-6.67	-13.00	-43.76
5640.00	-43.97	-50.40	13.03	-6.60	-13.00	-30.97

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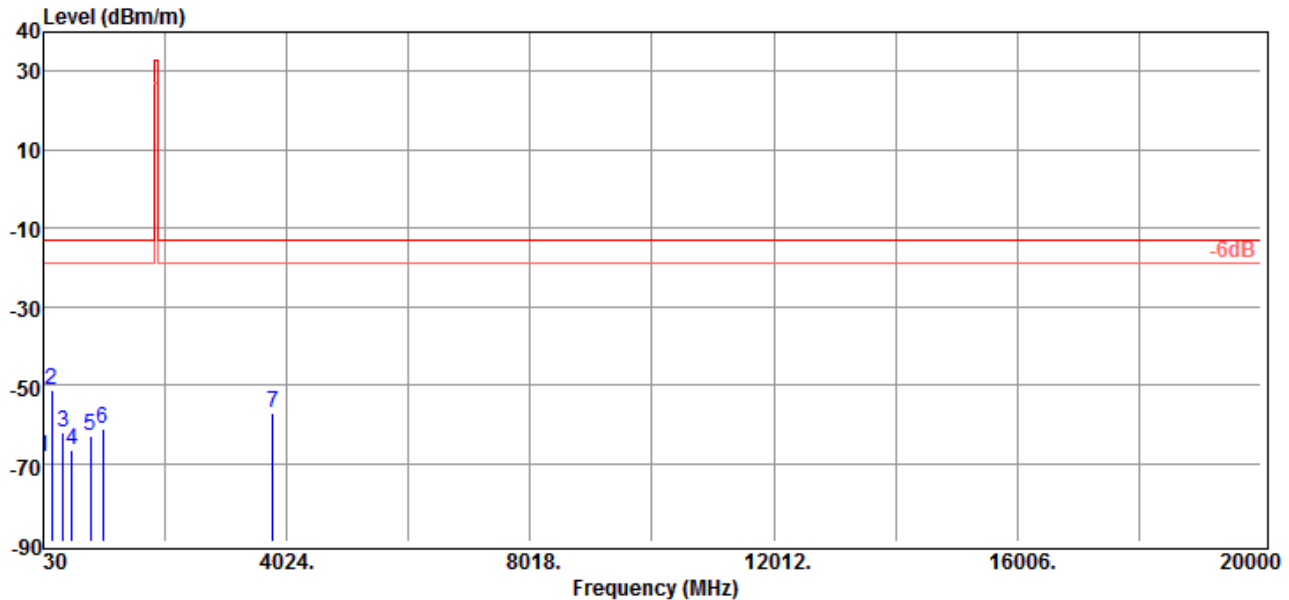
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Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
40.67	-68.45	-56.44	-11.41	-0.60	-13.00	-55.45
162.89	-51.14	-53.56	3.48	-1.06	-13.00	-38.14
351.07	-62.08	-65.91	5.78	-1.95	-13.00	-49.08
502.39	-66.69	-70.37	6.29	-2.61	-13.00	-53.69
806.00	-62.82	-67.95	7.56	-2.43	-13.00	-49.82
1000.00	-61.43	-66.25	7.81	-2.99	-13.00	-48.43
3800.00	-57.16	-63.03	12.48	-6.61	-13.00	-44.16

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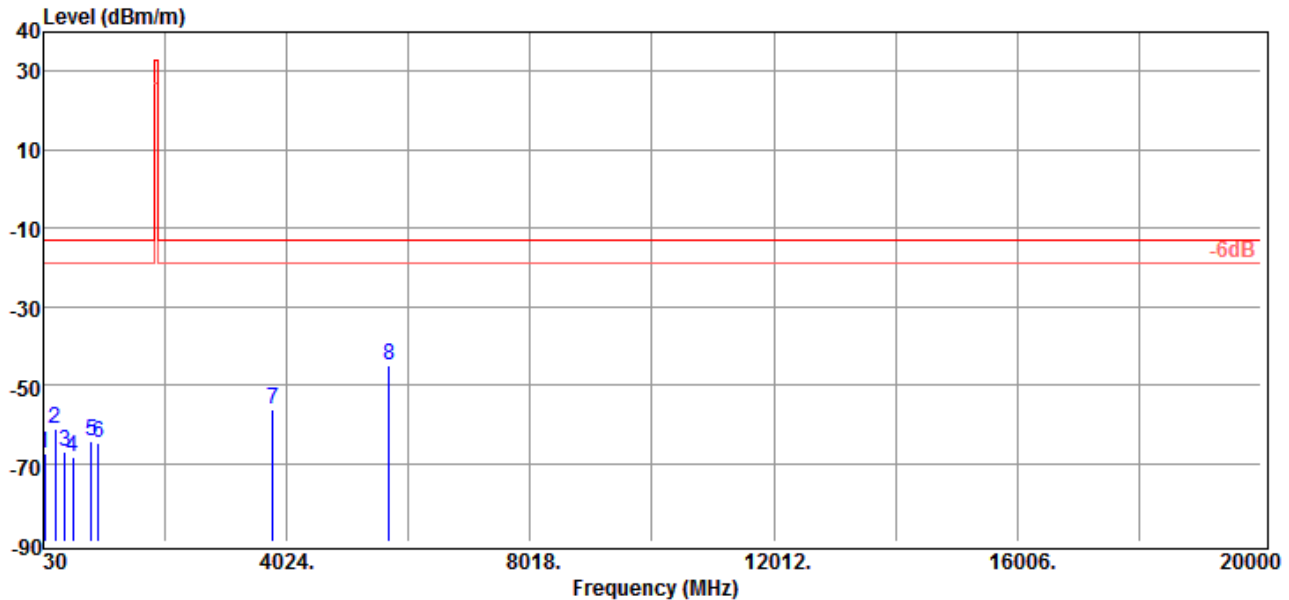
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Operation Mode	:LTE B2	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-67.47	-58.39	-8.45	-0.63	-13.00	-54.47
231.76	-61.06	-65.08	5.39	-1.37	-13.00	-48.06
377.26	-67.24	-70.90	5.66	-2.00	-13.00	-54.24
514.03	-68.55	-72.28	6.27	-2.54	-13.00	-55.55
820.55	-64.34	-69.47	7.54	-2.41	-13.00	-51.34
928.22	-64.66	-69.69	7.63	-2.60	-13.00	-51.66
3800.00	-56.32	-62.19	12.48	-6.61	-13.00	-43.32
5700.00	-44.85	-51.17	13.04	-6.72	-13.00	-31.85

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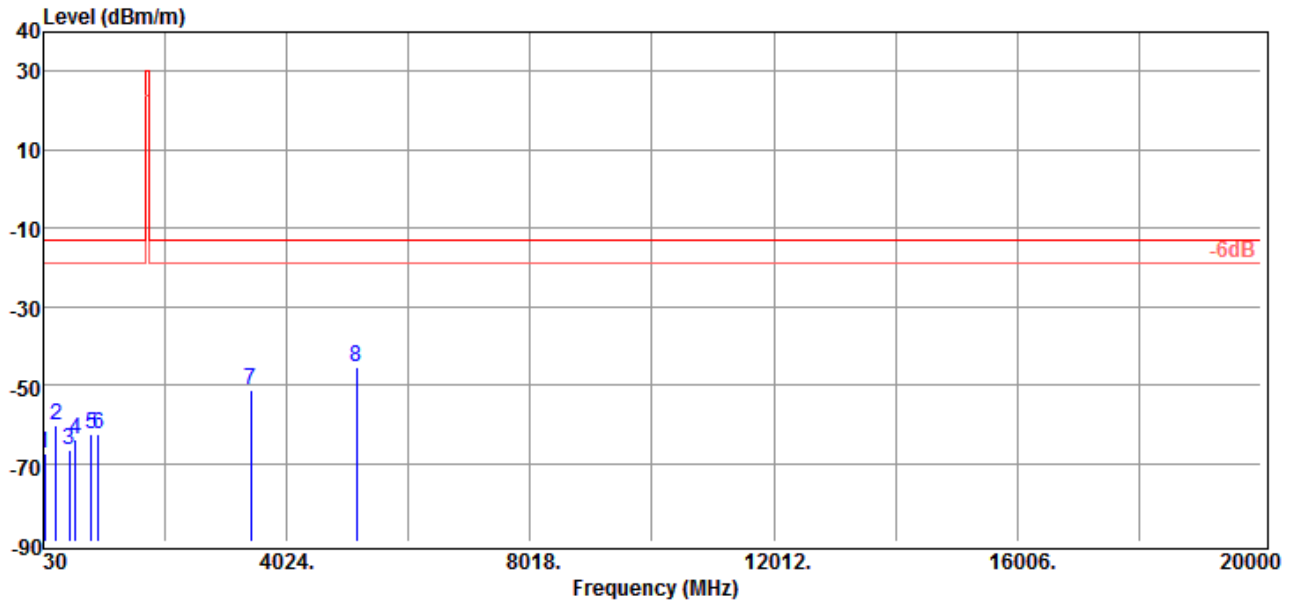
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-67.34	-62.53	-4.15	-0.66	-13.00	-54.34
239.52	-60.22	-64.12	5.30	-1.40	-13.00	-47.22
462.62	-66.59	-70.52	6.13	-2.20	-13.00	-53.59
563.50	-64.10	-68.16	6.35	-2.29	-13.00	-51.10
818.61	-62.56	-67.69	7.54	-2.41	-13.00	-49.56
928.22	-62.36	-67.39	7.63	-2.60	-13.00	-49.36
3440.00	-51.27	-56.74	12.19	-6.72	-13.00	-38.27
5160.00	-45.40	-51.40	12.67	-6.67	-13.00	-32.40

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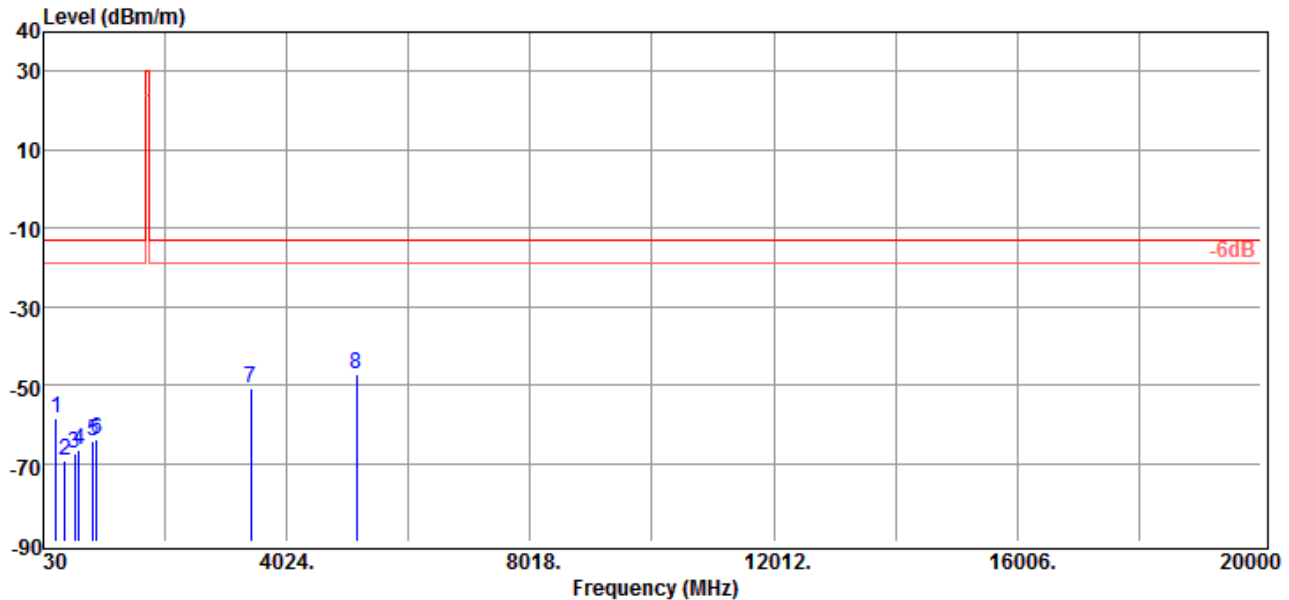
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Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
237.58	-58.32	-62.25	5.32	-1.39	-13.00	-45.32
382.11	-69.34	-72.96	5.63	-2.01	-13.00	-56.34
549.92	-67.51	-71.38	6.22	-2.35	-13.00	-54.51
613.94	-66.78	-71.27	6.73	-2.24	-13.00	-53.78
844.80	-64.49	-69.63	7.51	-2.37	-13.00	-51.49
900.09	-63.76	-68.91	7.59	-2.44	-13.00	-50.76
3440.00	-50.80	-56.27	12.19	-6.72	-13.00	-37.80
5160.00	-47.07	-53.07	12.67	-6.67	-13.00	-34.07

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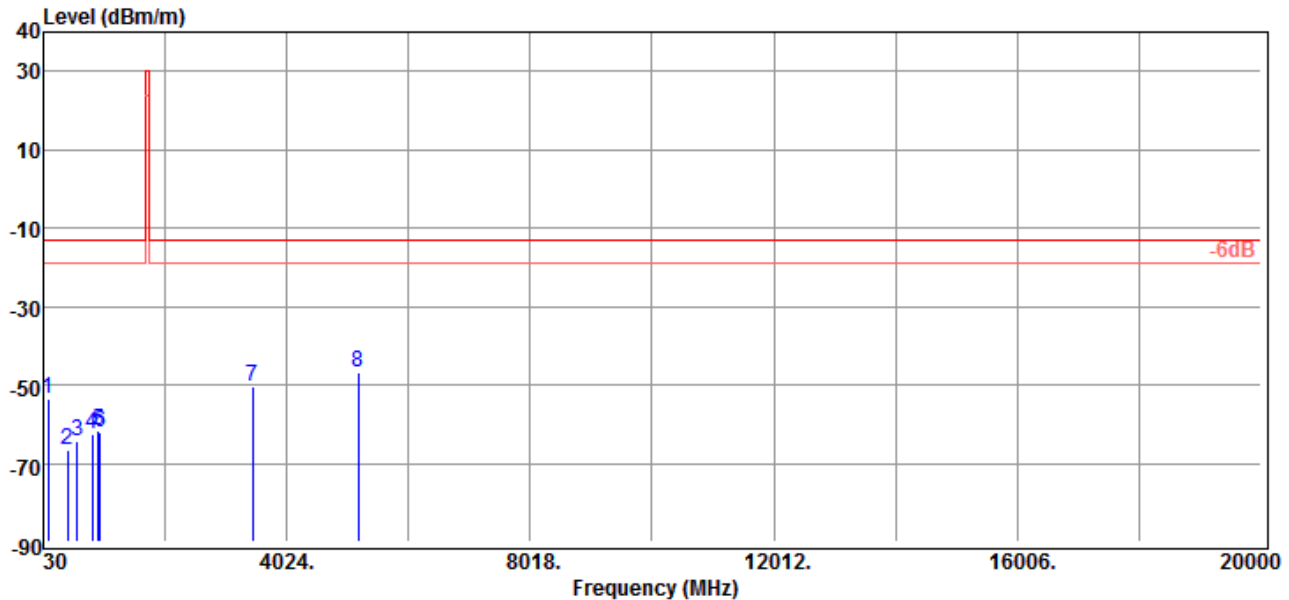
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Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-53.74	-52.80	-0.05	-0.89	-13.00	-40.74
432.55	-66.64	-70.49	5.90	-2.05	-13.00	-53.64
591.63	-64.51	-68.95	6.60	-2.16	-13.00	-51.51
837.04	-62.43	-67.57	7.52	-2.38	-13.00	-49.43
933.07	-61.51	-66.52	7.64	-2.63	-13.00	-48.51
965.08	-61.92	-66.82	7.71	-2.81	-13.00	-48.92
3465.00	-50.57	-55.96	12.23	-6.84	-13.00	-37.57
5197.50	-46.97	-53.04	12.70	-6.63	-13.00	-33.97

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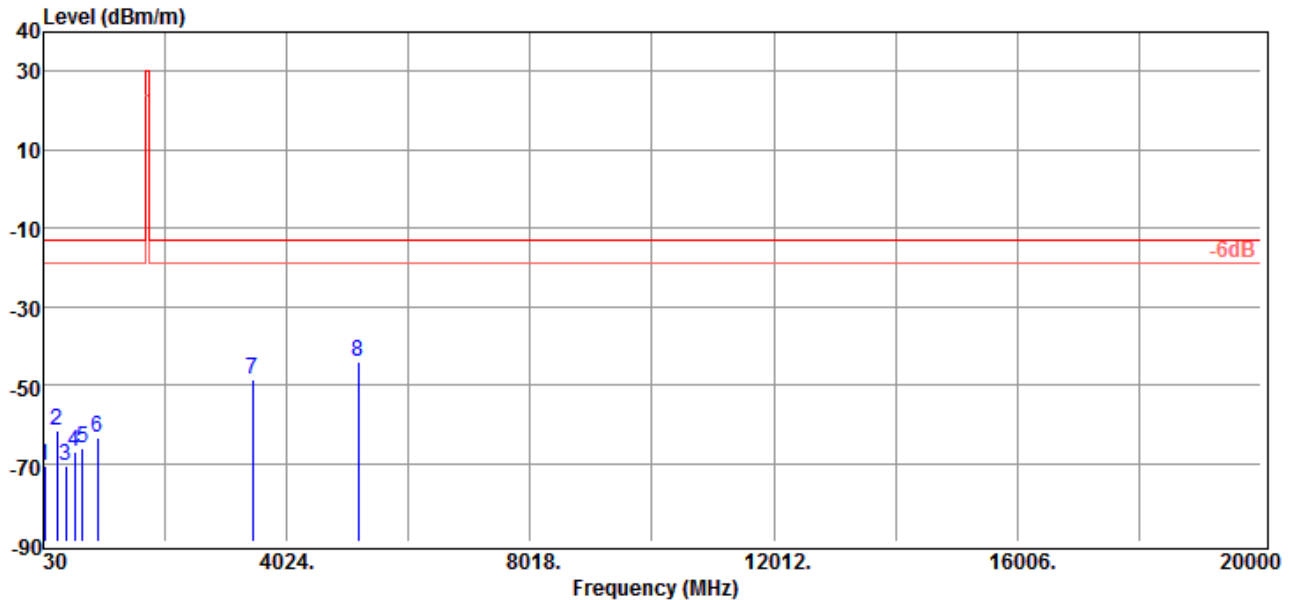
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Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
47.46	-70.71	-63.67	-6.40	-0.64	-13.00	-57.71
253.10	-61.88	-65.65	5.22	-1.45	-13.00	-48.88
396.66	-70.74	-74.28	5.57	-2.03	-13.00	-57.74
540.22	-67.28	-71.11	6.23	-2.40	-13.00	-54.28
675.05	-66.04	-70.72	7.09	-2.41	-13.00	-53.04
913.67	-63.25	-68.34	7.61	-2.52	-13.00	-50.25
3465.00	-48.82	-54.21	12.23	-6.84	-13.00	-35.82
5197.50	-44.16	-50.23	12.70	-6.63	-13.00	-31.16

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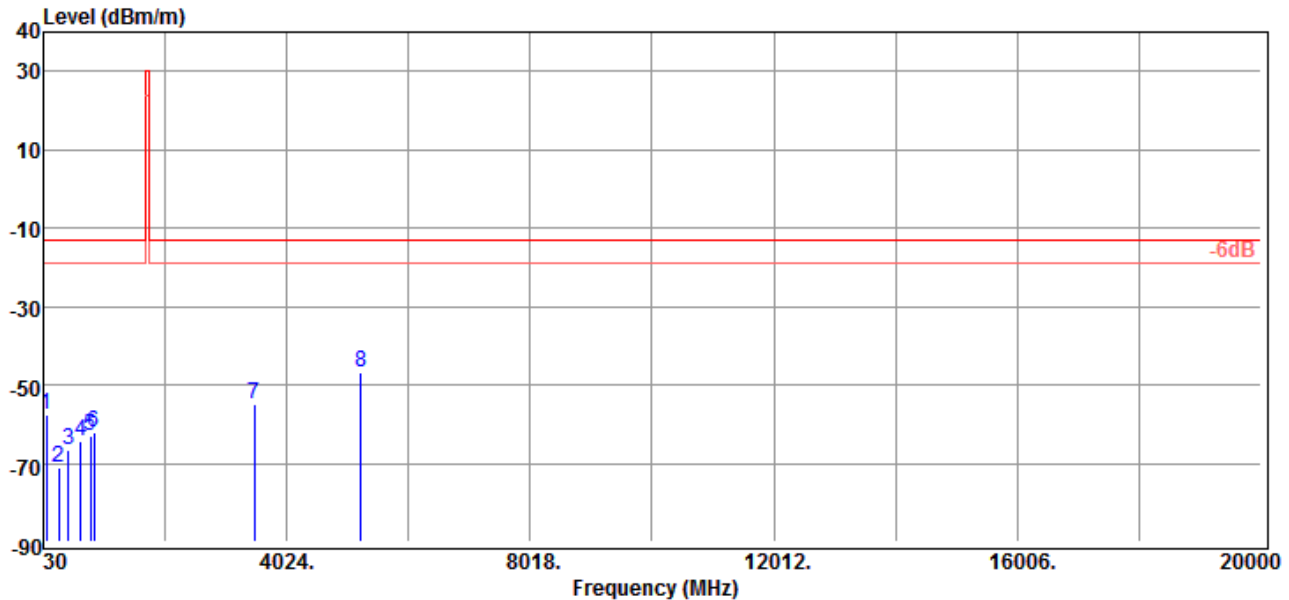
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Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-57.44	-57.28	0.60	-0.76	-13.00	-44.44
285.11	-71.00	-75.09	5.66	-1.57	-13.00	-58.00
440.31	-66.69	-70.60	5.97	-2.06	-13.00	-53.69
639.16	-64.22	-68.60	6.83	-2.45	-13.00	-51.22
806.00	-62.82	-67.95	7.56	-2.43	-13.00	-49.82
864.20	-61.98	-67.13	7.53	-2.38	-13.00	-48.98
3490.00	-55.08	-60.40	12.28	-6.96	-13.00	-42.08
5235.00	-46.64	-52.79	12.74	-6.59	-13.00	-33.64

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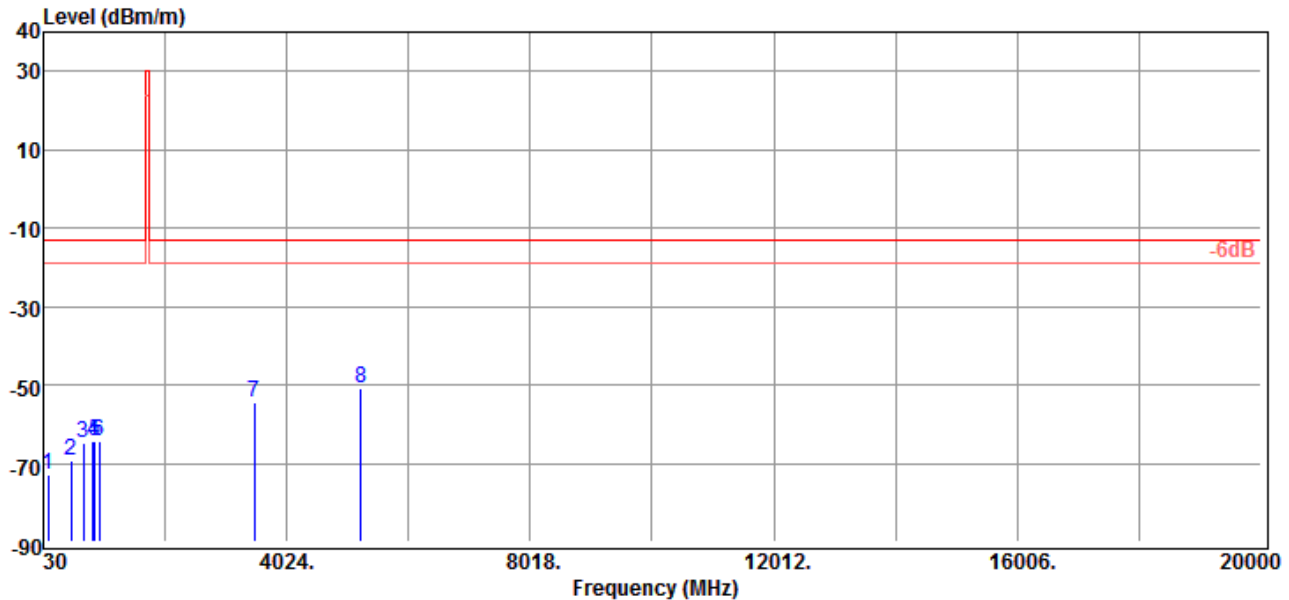
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Operation Mode	:LTE B4	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-72.79	-72.13	0.24	-0.90	-13.00	-59.79
479.11	-69.10	-72.91	6.20	-2.39	-13.00	-56.10
685.72	-64.98	-69.81	7.19	-2.36	-13.00	-51.98
844.80	-64.49	-69.63	7.51	-2.37	-13.00	-51.49
876.81	-64.21	-69.36	7.55	-2.40	-13.00	-51.21
941.80	-64.23	-69.20	7.65	-2.68	-13.00	-51.23
3490.00	-54.58	-59.90	12.28	-6.96	-13.00	-41.58
5235.00	-50.71	-56.86	12.74	-6.59	-13.00	-37.71

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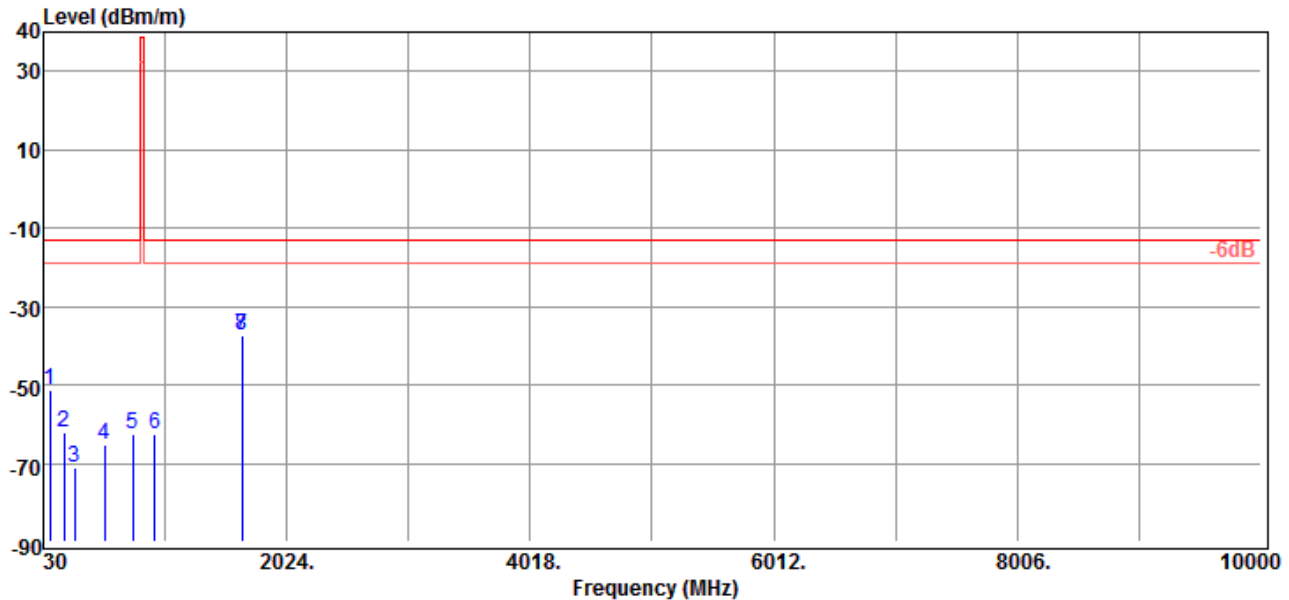
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
84.32	-51.09	-50.67	0.37	-0.79	-13.00	-38.09
198.78	-62.09	-66.62	5.76	-1.23	-13.00	-49.09
286.08	-71.29	-75.39	5.67	-1.57	-13.00	-58.29
530.52	-65.08	-68.87	6.25	-2.46	-13.00	-52.08
760.41	-62.35	-67.66	7.44	-2.13	-13.00	-49.35
942.77	-62.75	-67.71	7.65	-2.69	-13.00	-49.75
1658.00	-37.23	-42.22	8.83	-3.84	-13.00	-24.23
1658.00	-37.23	-42.22	8.83	-3.84	-13.00	-24.23

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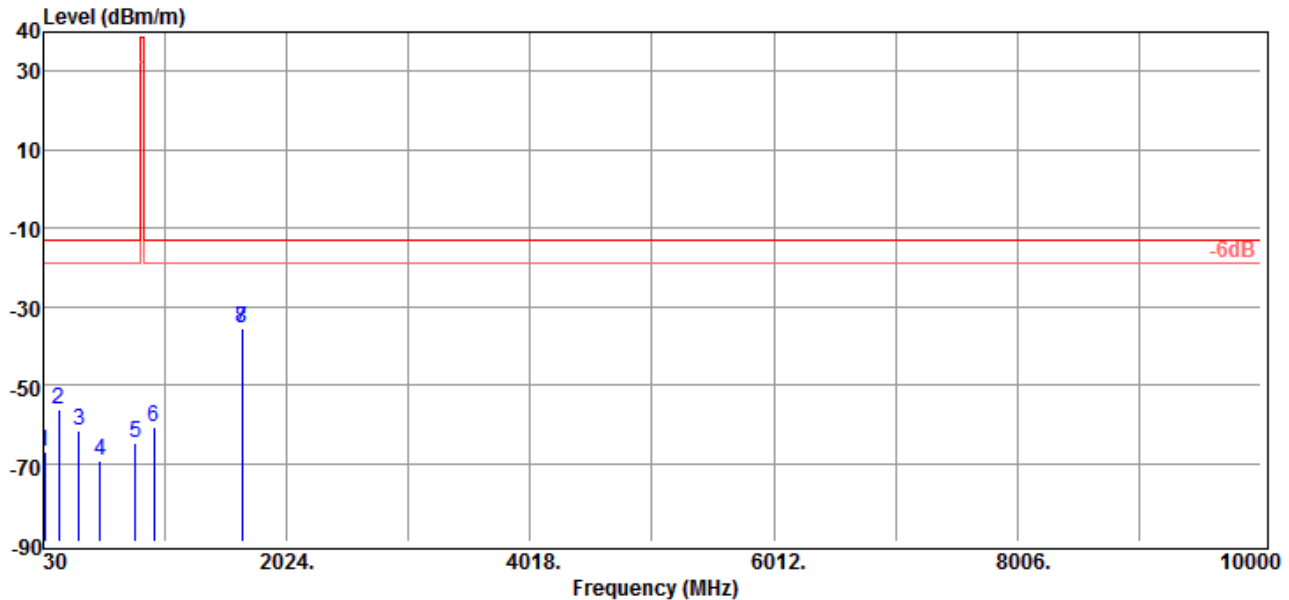
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Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-66.87	-57.08	-9.17	-0.62	-13.00	-53.87
153.19	-56.35	-58.10	2.77	-1.02	-13.00	-43.35
323.91	-61.48	-65.52	5.82	-1.78	-13.00	-48.48
493.66	-69.30	-73.01	6.26	-2.55	-13.00	-56.30
780.78	-64.77	-69.99	7.51	-2.29	-13.00	-51.77
935.01	-60.98	-65.98	7.64	-2.64	-13.00	-47.98
1658.00	-35.35	-40.34	8.83	-3.84	-13.00	-22.35
1658.00	-35.35	-40.34	8.83	-3.84	-13.00	-22.35

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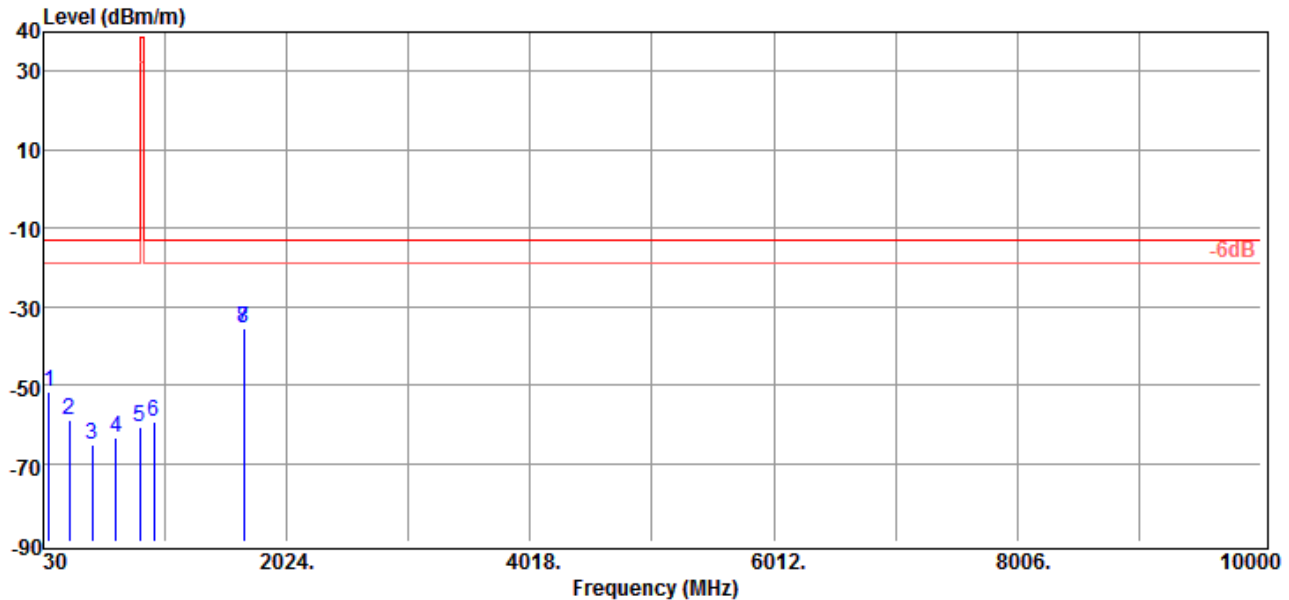
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Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-51.68	-51.56	0.65	-0.77	-13.00	-38.68
241.46	-59.03	-62.89	5.27	-1.41	-13.00	-46.03
430.61	-65.08	-68.91	5.88	-2.05	-13.00	-52.08
627.52	-63.48	-67.91	6.78	-2.35	-13.00	-50.48
822.49	-60.81	-65.95	7.54	-2.40	-13.00	-47.81
935.01	-59.46	-64.46	7.64	-2.64	-13.00	-46.46
1673.00	-35.69	-40.73	8.90	-3.86	-13.00	-22.69
1673.00	-35.69	-40.73	8.90	-3.86	-13.00	-22.69

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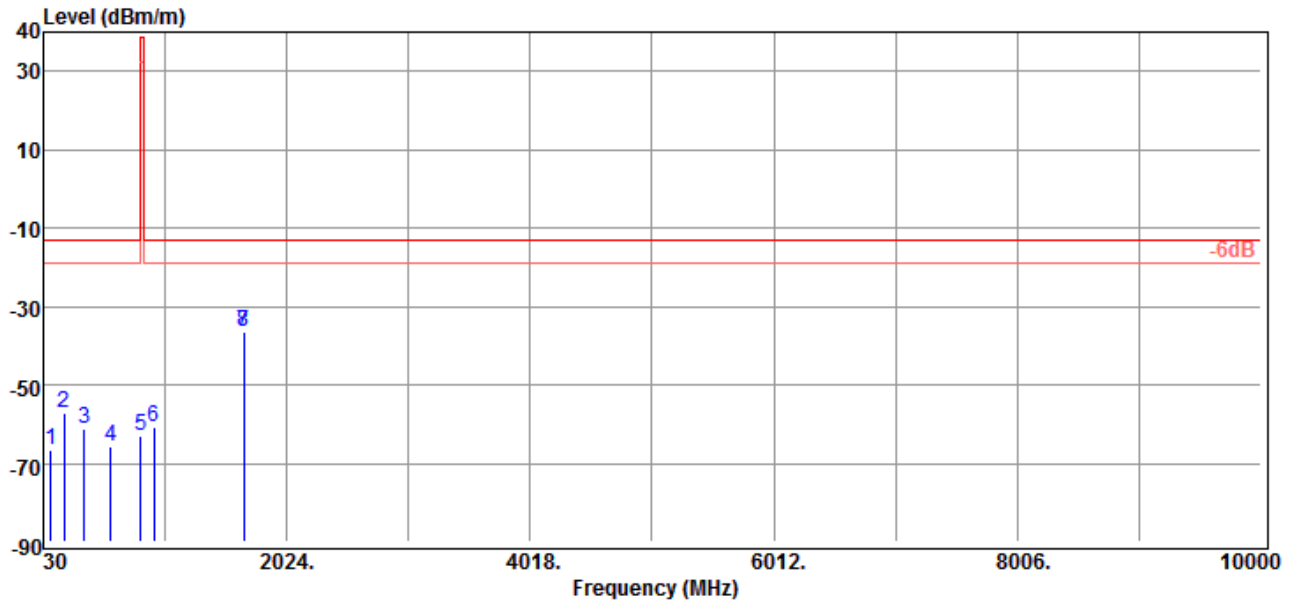
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Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
89.17	-66.76	-65.99	0.04	-0.81	-13.00	-53.76
197.81	-57.23	-61.70	5.70	-1.23	-13.00	-44.23
366.59	-61.20	-64.93	5.71	-1.98	-13.00	-48.20
579.99	-65.84	-70.12	6.49	-2.21	-13.00	-52.84
827.34	-63.07	-68.20	7.53	-2.40	-13.00	-50.07
935.01	-60.98	-65.98	7.64	-2.64	-13.00	-47.98
1673.00	-36.32	-41.36	8.90	-3.86	-13.00	-23.32
1673.00	-36.32	-41.36	8.90	-3.86	-13.00	-23.32

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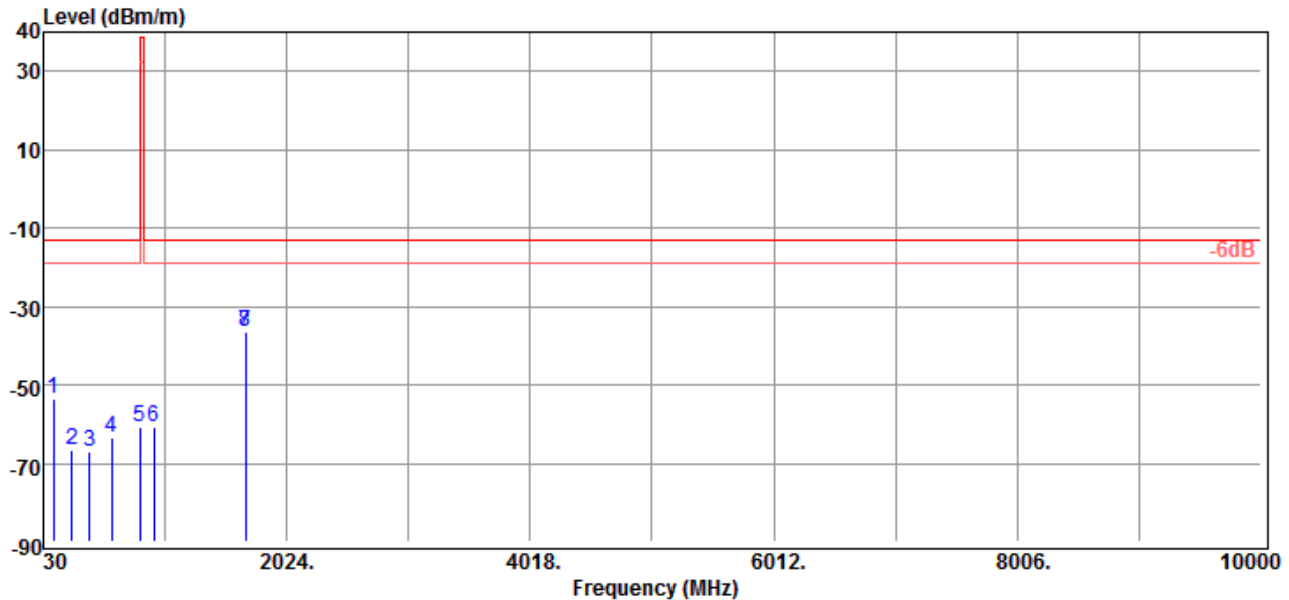
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Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-53.74	-52.80	-0.05	-0.89	-13.00	-40.74
265.71	-66.76	-70.66	5.40	-1.50	-13.00	-53.76
411.21	-67.21	-70.84	5.67	-2.04	-13.00	-54.21
588.72	-63.52	-67.92	6.57	-2.17	-13.00	-50.52
822.49	-60.81	-65.95	7.54	-2.40	-13.00	-47.81
934.04	-60.95	-65.95	7.64	-2.64	-13.00	-47.95
1688.00	-36.47	-41.55	8.96	-3.88	-13.00	-23.47
1688.00	-36.47	-41.55	8.96	-3.88	-13.00	-23.47

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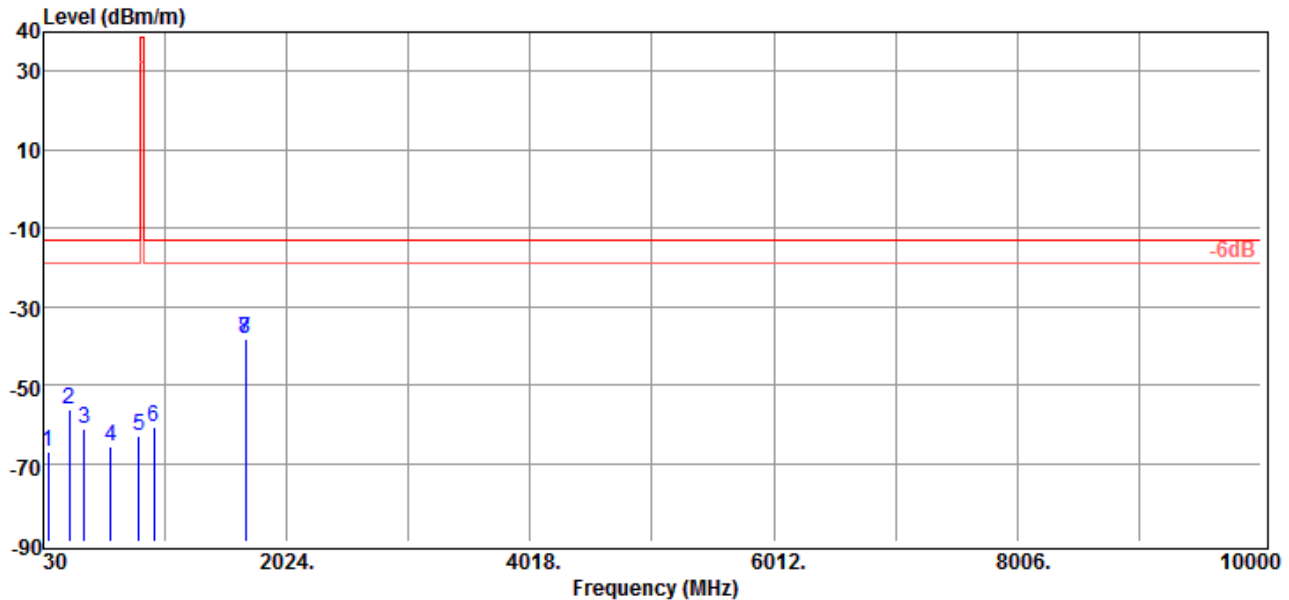
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Operation Mode	:LTE B5	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-66.91	-66.55	0.36	-0.72	-13.00	-53.91
242.43	-56.29	-60.14	5.26	-1.41	-13.00	-43.29
366.59	-61.20	-64.93	5.71	-1.98	-13.00	-48.20
579.99	-65.84	-70.12	6.49	-2.21	-13.00	-52.84
815.70	-62.86	-68.00	7.55	-2.41	-13.00	-49.86
935.01	-60.98	-65.98	7.64	-2.64	-13.00	-47.98
1688.00	-38.09	-43.17	8.96	-3.88	-13.00	-25.09
1688.00	-38.09	-43.17	8.96	-3.88	-13.00	-25.09

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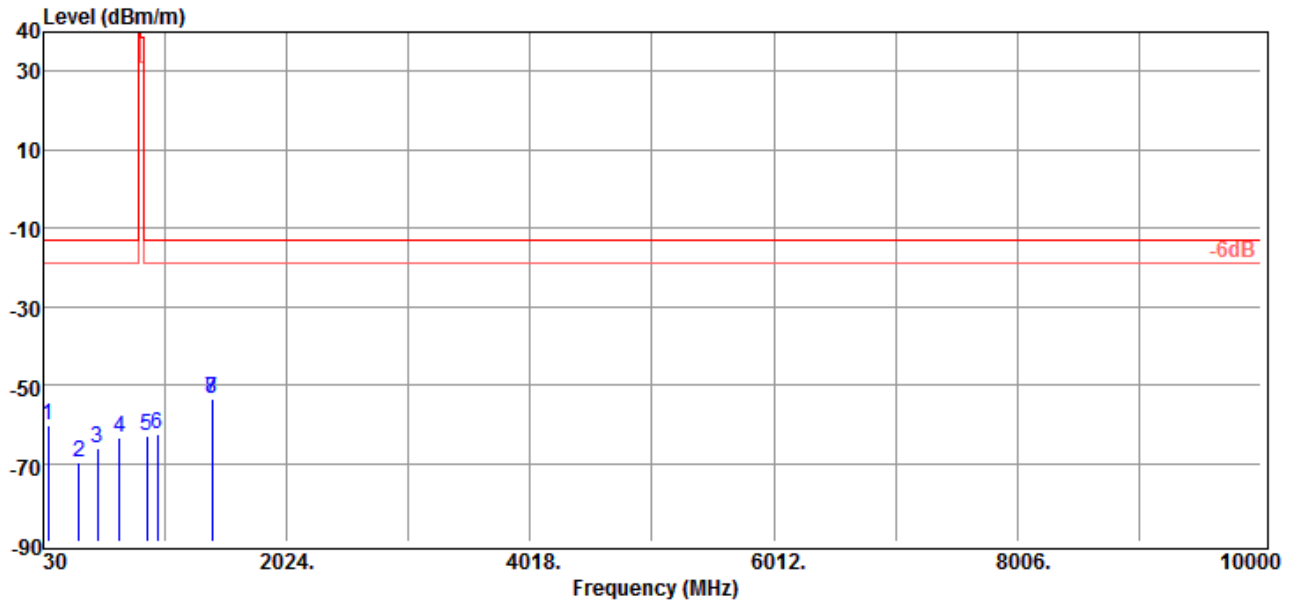
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:704 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-60.11	-59.86	0.48	-0.73	-13.00	-47.11
320.03	-69.55	-73.62	5.82	-1.75	-13.00	-56.55
475.23	-66.32	-70.16	6.18	-2.34	-13.00	-53.32
653.71	-63.66	-68.04	6.90	-2.52	-13.00	-50.66
880.69	-62.90	-68.05	7.56	-2.41	-13.00	-49.90
964.11	-62.46	-67.36	7.70	-2.80	-13.00	-49.46
1408.00	-53.79	-58.03	7.73	-3.49	-13.00	-40.79
1408.00	-53.79	-58.03	7.73	-3.49	-13.00	-40.79

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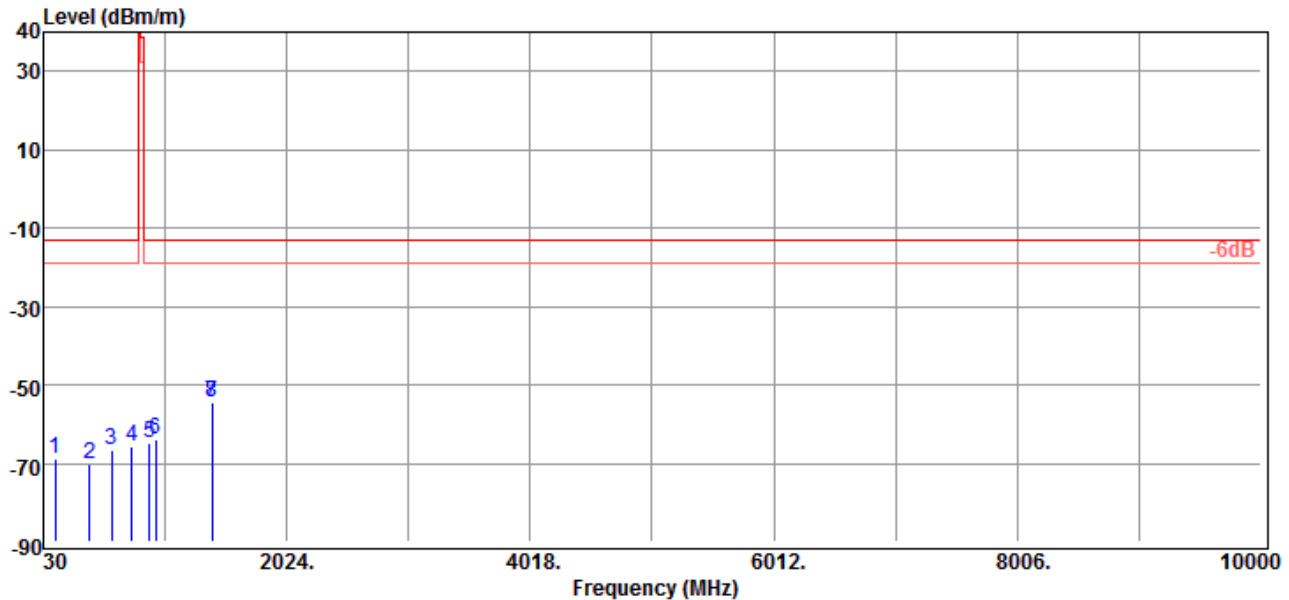
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Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:704 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-68.63	-68.82	1.13	-0.94	-13.00	-55.63
405.39	-70.42	-73.99	5.61	-2.04	-13.00	-57.42
591.63	-66.41	-70.85	6.60	-2.16	-13.00	-53.41
753.62	-65.80	-71.14	7.42	-2.08	-13.00	-52.80
901.06	-64.63	-69.77	7.59	-2.45	-13.00	-51.63
951.50	-63.70	-68.62	7.66	-2.74	-13.00	-50.70
1408.00	-54.57	-58.81	7.73	-3.49	-13.00	-41.57
1408.00	-54.57	-58.81	7.73	-3.49	-13.00	-41.57

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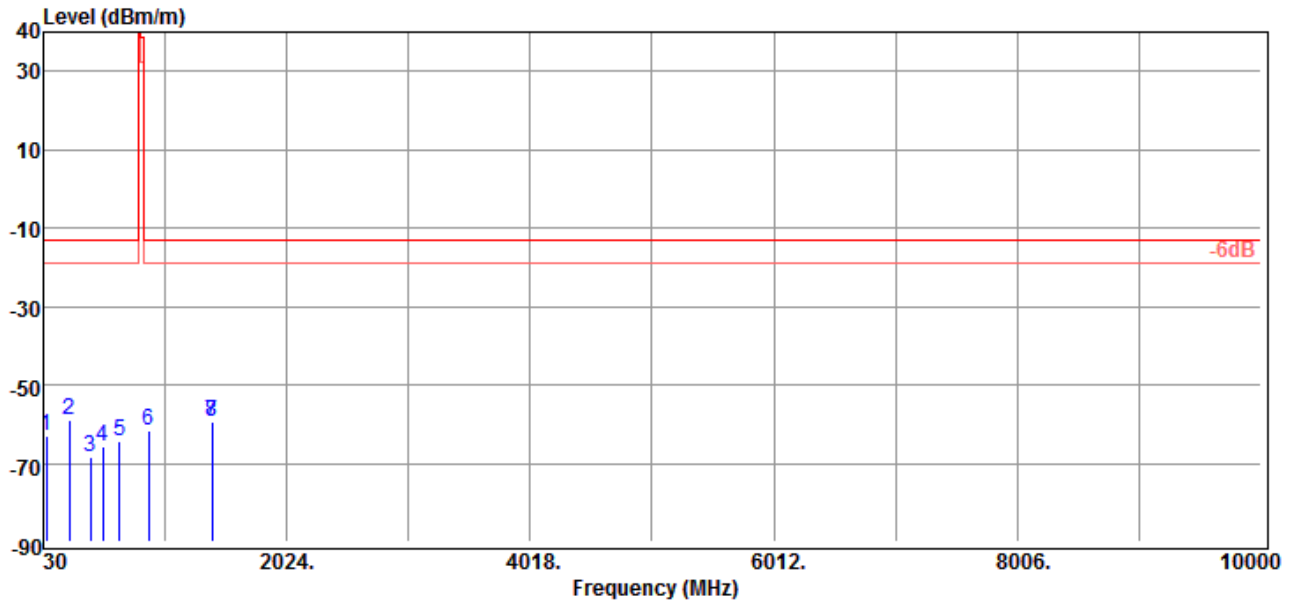
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Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-62.91	-58.89	-3.36	-0.66	-13.00	-49.91
241.46	-59.03	-62.89	5.27	-1.41	-13.00	-46.03
415.09	-68.45	-72.11	5.71	-2.05	-13.00	-55.45
519.85	-65.52	-69.27	6.26	-2.51	-13.00	-52.52
650.80	-64.37	-68.71	6.88	-2.54	-13.00	-51.37
893.30	-61.67	-66.82	7.58	-2.43	-13.00	-48.67
1415.00	-59.53	-63.78	7.75	-3.50	-13.00	-46.53
1415.00	-59.53	-63.78	7.75	-3.50	-13.00	-46.53

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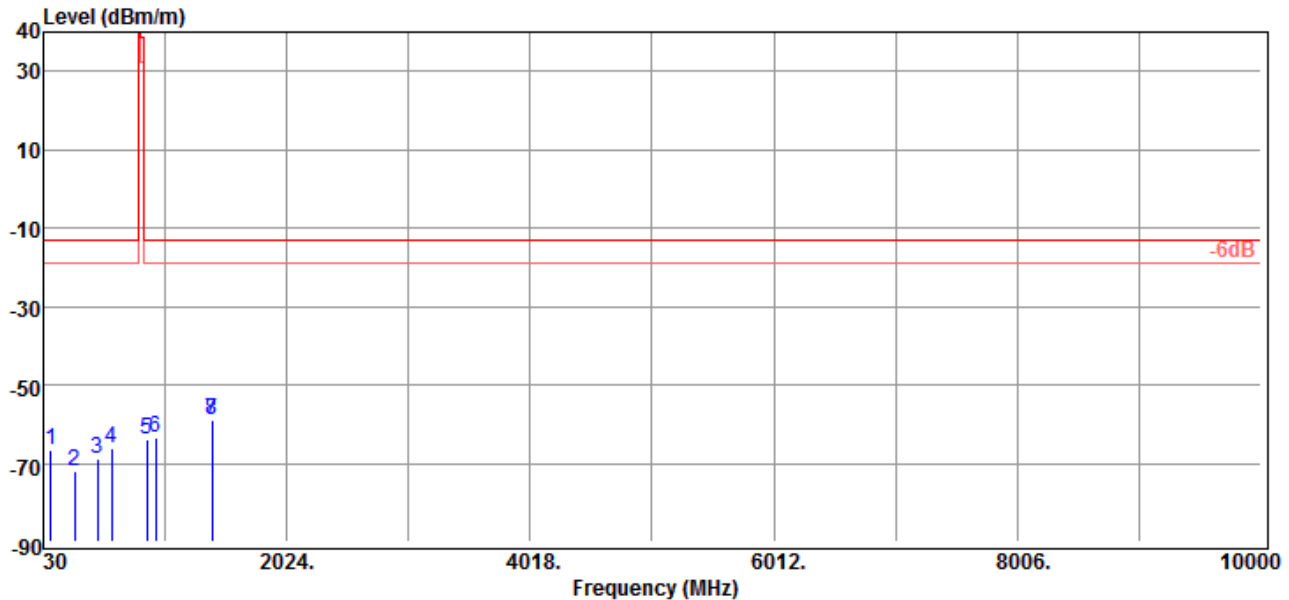
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Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-66.52	-65.40	-0.29	-0.83	-13.00	-53.52
284.14	-72.01	-76.10	5.65	-1.56	-13.00	-59.01
472.32	-68.74	-72.60	6.17	-2.31	-13.00	-55.74
586.78	-66.21	-70.58	6.55	-2.18	-13.00	-53.21
878.75	-63.80	-68.94	7.55	-2.41	-13.00	-50.80
946.65	-63.36	-68.31	7.66	-2.71	-13.00	-50.36
1415.00	-59.14	-63.39	7.75	-3.50	-13.00	-46.14
1415.00	-59.14	-63.39	7.75	-3.50	-13.00	-46.14

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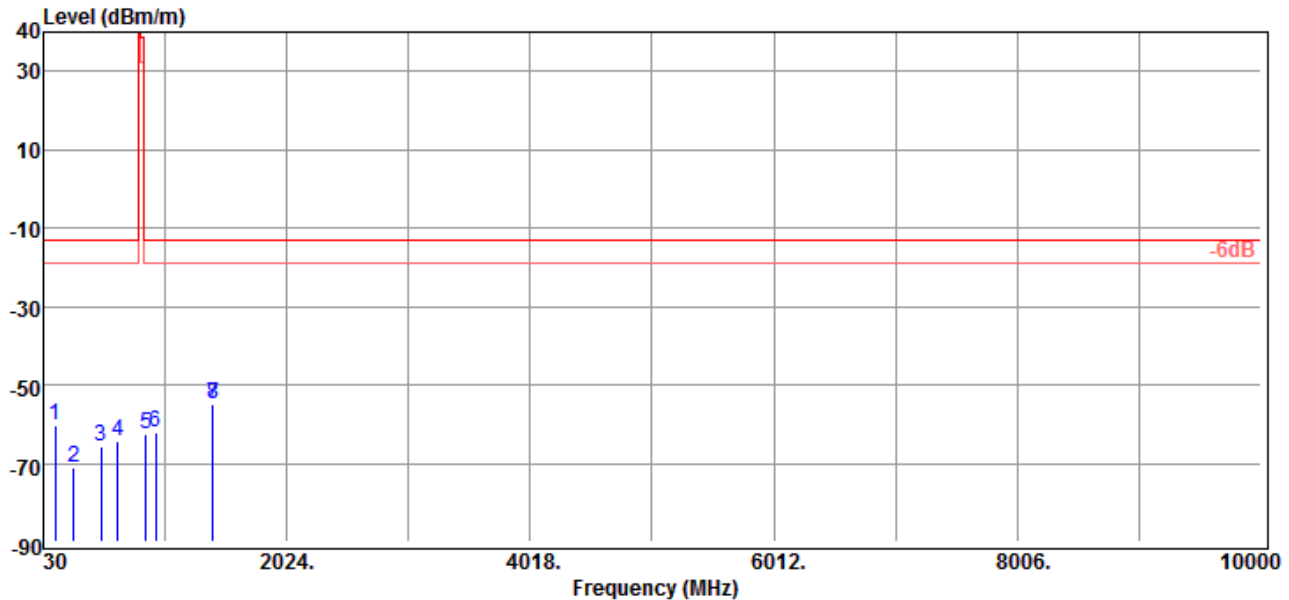
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Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
130.88	-60.34	-60.77	1.38	-0.95	-13.00	-47.34
277.35	-71.18	-75.20	5.56	-1.54	-13.00	-58.18
503.36	-65.78	-69.47	6.29	-2.60	-13.00	-52.78
641.10	-64.39	-68.76	6.84	-2.47	-13.00	-51.39
870.02	-62.38	-67.53	7.54	-2.39	-13.00	-49.38
947.62	-61.94	-66.88	7.66	-2.72	-13.00	-48.94
1422.00	-54.83	-59.10	7.78	-3.51	-13.00	-41.83
1422.00	-54.83	-59.10	7.78	-3.51	-13.00	-41.83

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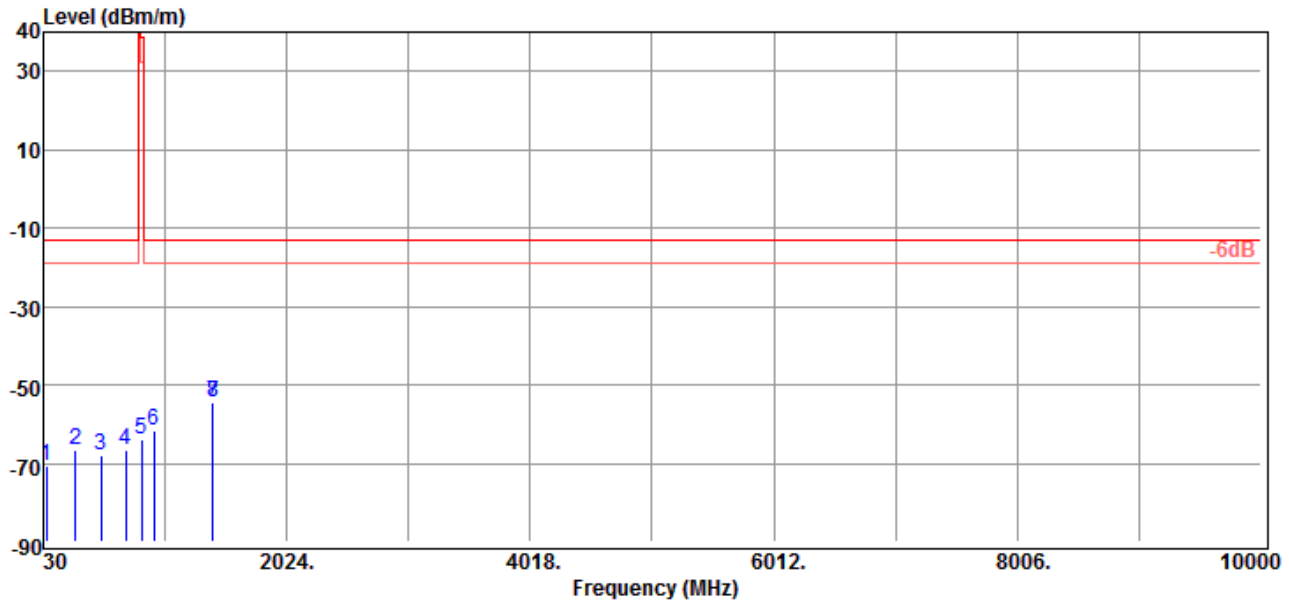
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Operation Mode	:LTE B12	Test Date	:2018-08-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-70.72	-67.09	-2.97	-0.66	-13.00	-57.72
293.84	-66.40	-70.57	5.77	-1.60	-13.00	-53.40
504.33	-68.17	-71.85	6.28	-2.60	-13.00	-55.17
704.15	-66.72	-71.77	7.32	-2.27	-13.00	-53.72
832.19	-64.10	-69.23	7.52	-2.39	-13.00	-51.10
935.98	-61.73	-66.72	7.64	-2.65	-13.00	-48.73
1422.00	-54.60	-58.87	7.78	-3.51	-13.00	-41.60
1422.00	-54.60	-58.87	7.78	-3.51	-13.00	-41.60

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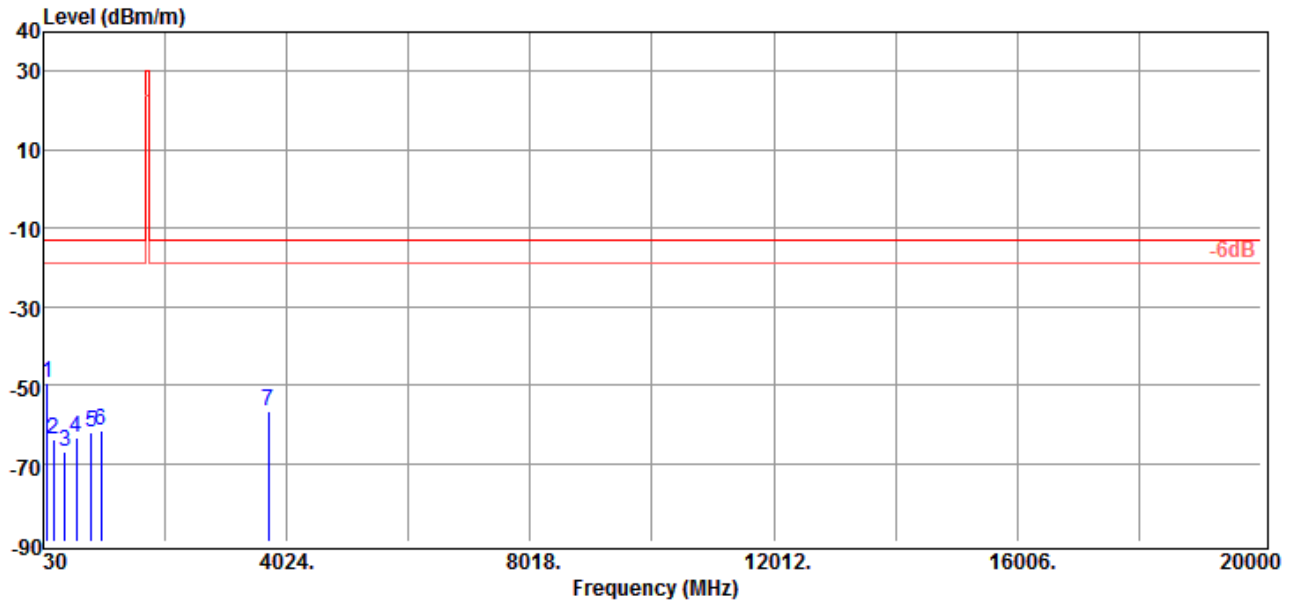
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Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-49.42	-48.30	-0.29	-0.83	-13.00	-36.42
200.72	-63.73	-68.31	5.82	-1.24	-13.00	-50.73
379.20	-67.13	-70.78	5.65	-2.00	-13.00	-54.13
567.38	-63.64	-67.75	6.38	-2.27	-13.00	-50.64
815.70	-62.17	-67.31	7.55	-2.41	-13.00	-49.17
969.93	-61.83	-66.72	7.72	-2.83	-13.00	-48.83
3720.00	-56.93	-62.65	12.44	-6.72	-13.00	-43.93

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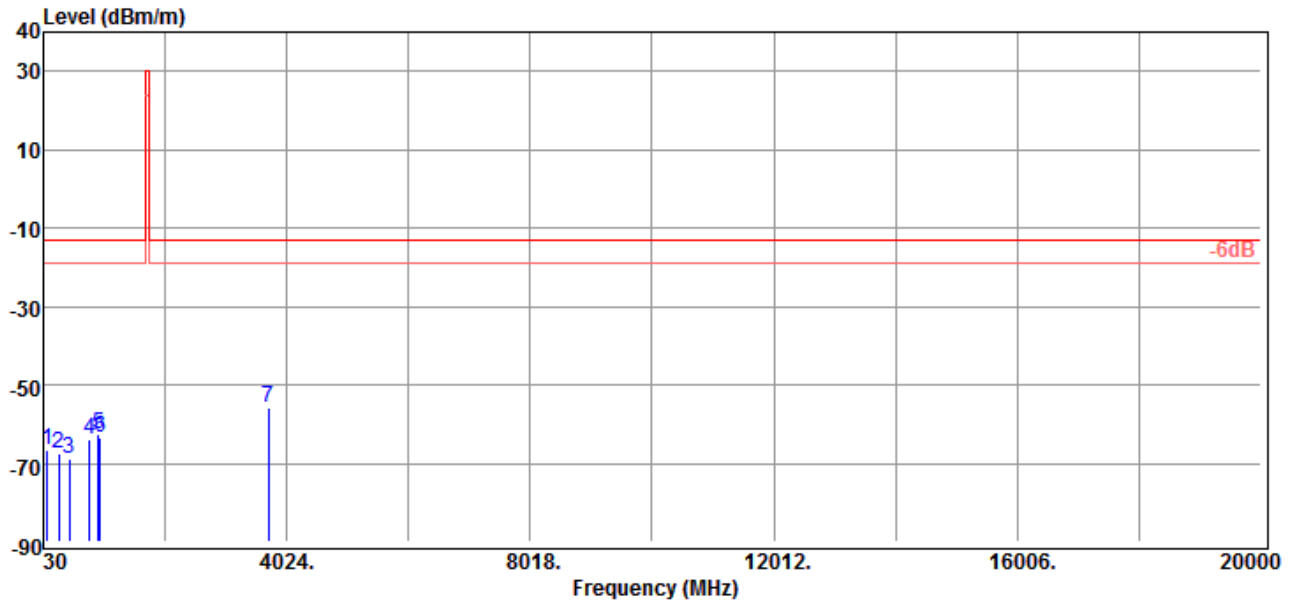
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Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
90.14	-66.41	-65.58	-0.02	-0.81	-13.00	-53.41
277.35	-67.34	-71.36	5.56	-1.54	-13.00	-54.34
459.71	-68.89	-72.83	6.11	-2.17	-13.00	-55.89
787.57	-64.10	-69.29	7.53	-2.34	-13.00	-51.10
938.89	-62.63	-67.60	7.64	-2.67	-13.00	-49.63
965.08	-63.33	-68.23	7.71	-2.81	-13.00	-50.33
3720.00	-55.62	-61.34	12.44	-6.72	-13.00	-42.62

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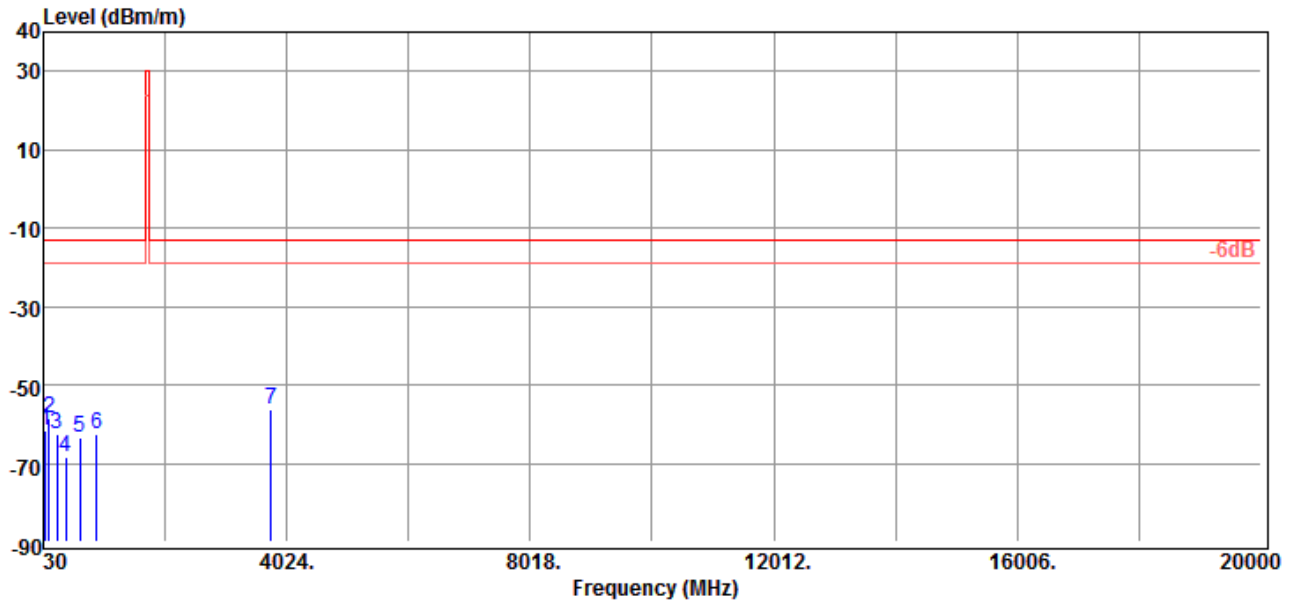
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Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-61.59	-61.23	0.36	-0.72	-13.00	-48.59
128.94	-58.41	-58.72	1.25	-0.94	-13.00	-45.41
247.28	-62.52	-66.29	5.20	-1.43	-13.00	-49.52
393.75	-68.19	-71.74	5.58	-2.03	-13.00	-55.19
627.52	-63.48	-67.91	6.78	-2.35	-13.00	-50.48
900.09	-62.41	-67.56	7.59	-2.44	-13.00	-49.41
3765.00	-56.39	-62.19	12.46	-6.66	-13.00	-43.39

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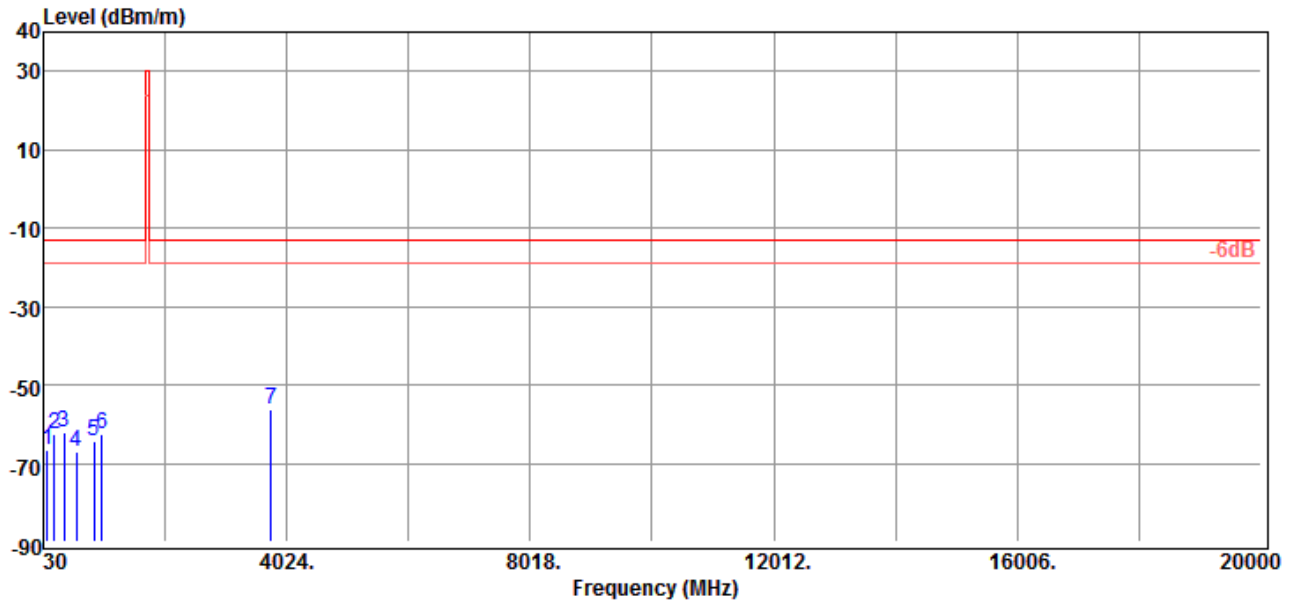
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Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
93.05	-66.52	-65.40	-0.29	-0.83	-13.00	-53.52
214.30	-62.45	-66.78	5.63	-1.30	-13.00	-49.45
365.62	-62.24	-65.97	5.71	-1.98	-13.00	-49.24
571.26	-67.09	-71.26	6.42	-2.25	-13.00	-54.09
858.38	-64.19	-69.34	7.52	-2.37	-13.00	-51.19
991.27	-62.58	-67.42	7.78	-2.94	-13.00	-49.58
3765.00	-56.15	-61.95	12.46	-6.66	-13.00	-43.15

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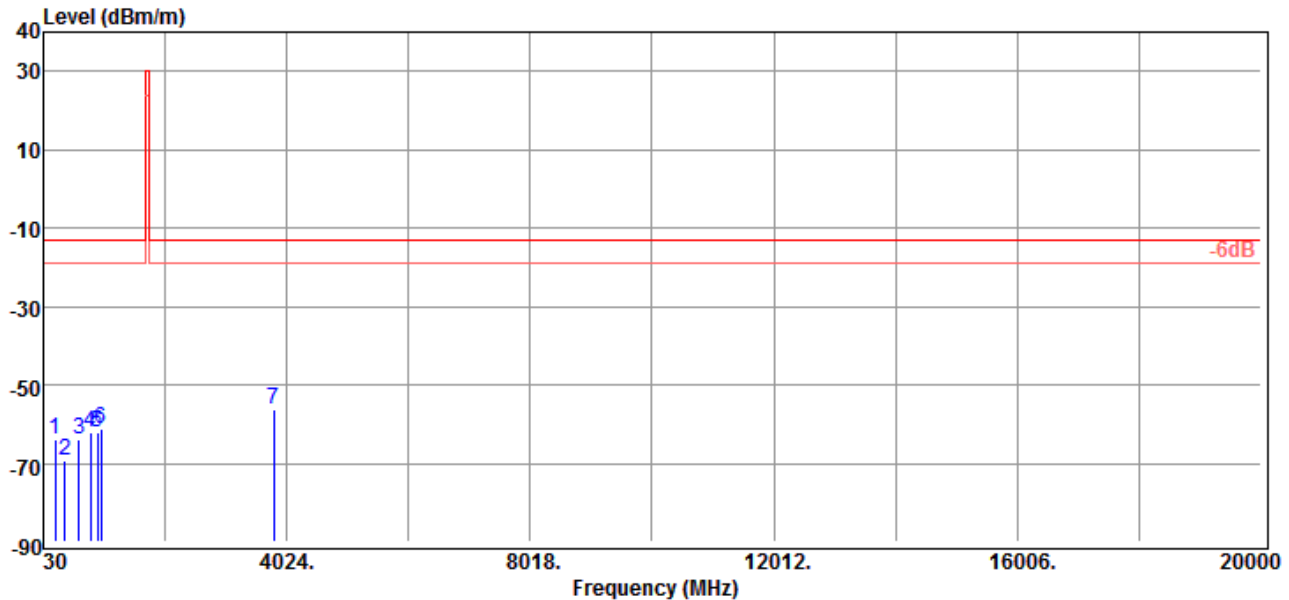
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Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1905 MHz	Engineer	:Enzo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
229.82	-64.09	-68.15	5.42	-1.36	-13.00	-51.09
383.08	-69.24	-72.86	5.63	-2.01	-13.00	-56.24
611.03	-64.01	-68.52	6.72	-2.21	-13.00	-51.01
809.88	-62.13	-67.27	7.56	-2.42	-13.00	-49.13
920.46	-62.15	-67.21	7.62	-2.56	-13.00	-49.15
977.69	-61.11	-65.98	7.74	-2.87	-13.00	-48.11
3810.00	-56.41	-62.30	12.49	-6.60	-13.00	-43.41

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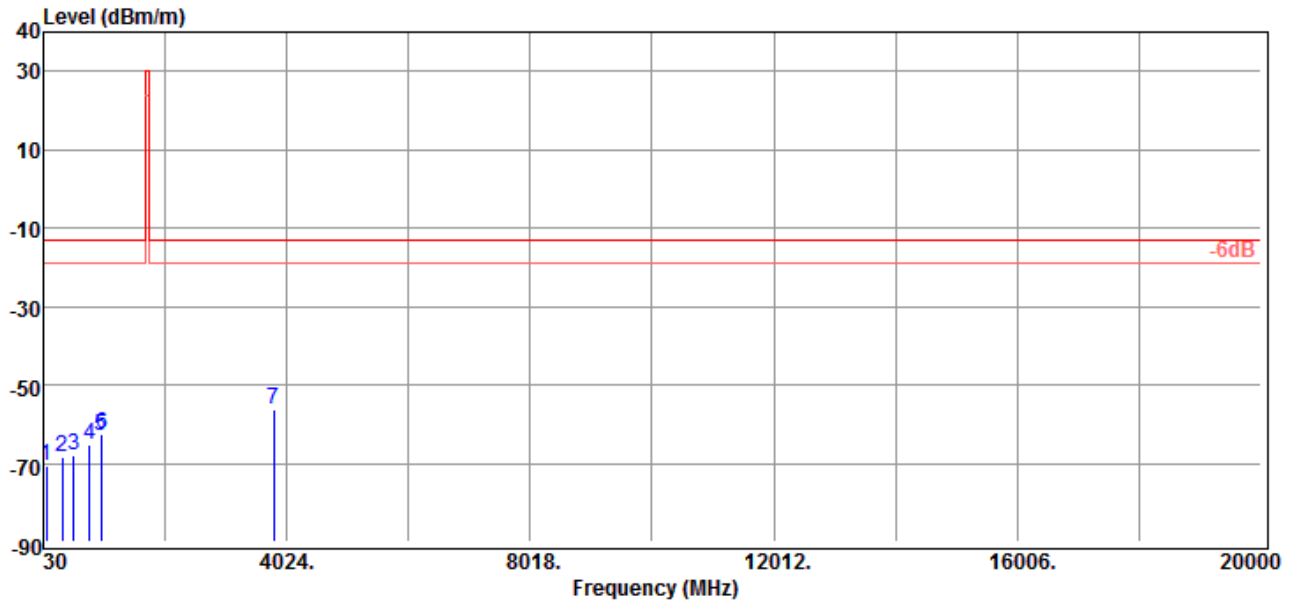
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Operation Mode	:LTE B25	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1905 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
82.38	-70.55	-70.26	0.50	-0.79	-13.00	-57.55
339.43	-68.50	-72.42	5.80	-1.88	-13.00	-55.50
531.49	-67.88	-71.68	6.25	-2.45	-13.00	-54.88
791.45	-65.20	-70.37	7.54	-2.37	-13.00	-52.20
973.81	-63.00	-67.88	7.73	-2.85	-13.00	-50.00
987.39	-62.74	-67.59	7.77	-2.92	-13.00	-49.74
3810.00	-56.38	-62.27	12.49	-6.60	-13.00	-43.38

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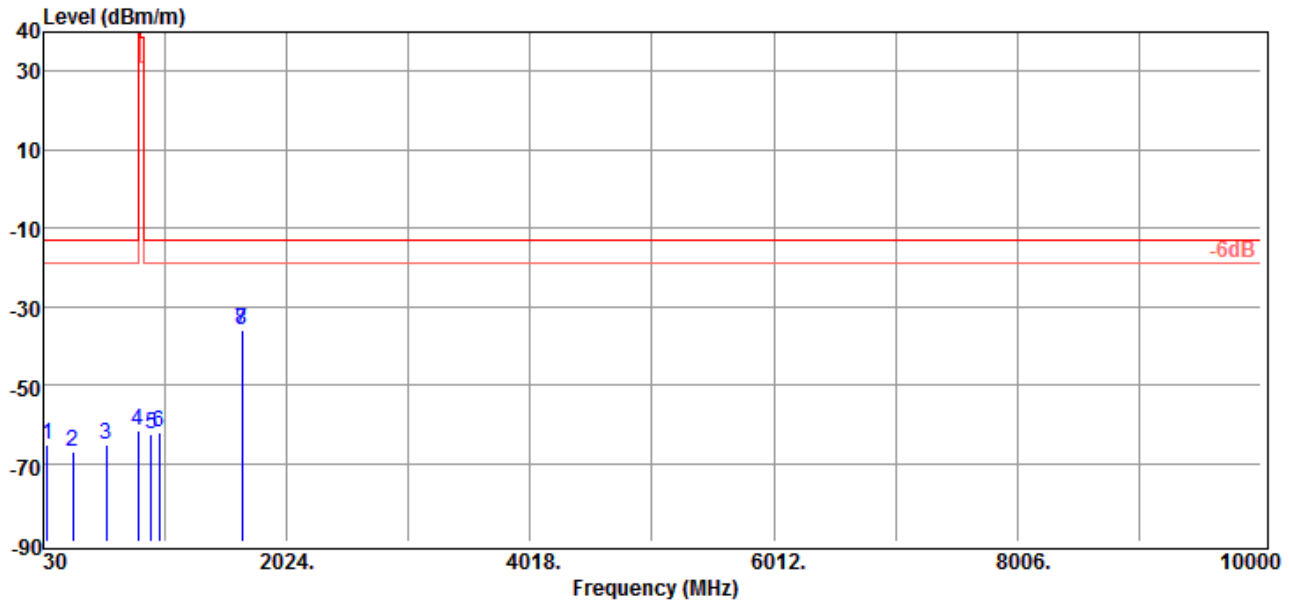
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Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:827.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.98	-65.07	-63.99	-0.41	-0.67	-13.00	-52.07
273.47	-67.10	-71.08	5.50	-1.52	-13.00	-54.10
546.04	-65.10	-68.96	6.23	-2.37	-13.00	-52.10
803.09	-61.83	-66.96	7.57	-2.44	-13.00	-48.83
910.76	-62.74	-67.85	7.61	-2.50	-13.00	-49.74
979.63	-62.03	-66.90	7.75	-2.88	-13.00	-49.03
1655.00	-36.17	-41.15	8.82	-3.84	-13.00	-23.17
1655.00	-36.17	-41.15	8.82	-3.84	-13.00	-23.17

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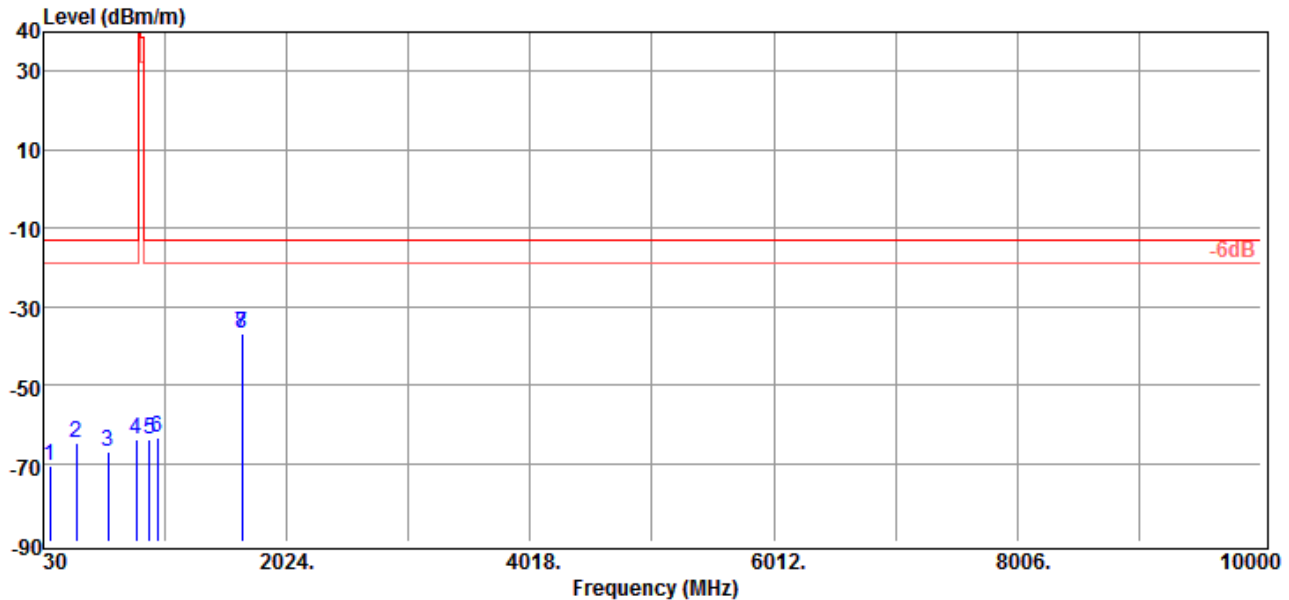
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Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:827.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-70.55	-69.99	0.24	-0.80	-13.00	-57.55
302.57	-64.89	-69.10	5.85	-1.64	-13.00	-51.89
563.50	-67.24	-71.30	6.35	-2.29	-13.00	-54.24
787.57	-64.10	-69.29	7.53	-2.34	-13.00	-51.10
900.09	-63.76	-68.91	7.59	-2.44	-13.00	-50.76
964.11	-63.50	-68.40	7.70	-2.80	-13.00	-50.50
1655.00	-36.93	-41.91	8.82	-3.84	-13.00	-23.93
1655.00	-36.93	-41.91	8.82	-3.84	-13.00	-23.93

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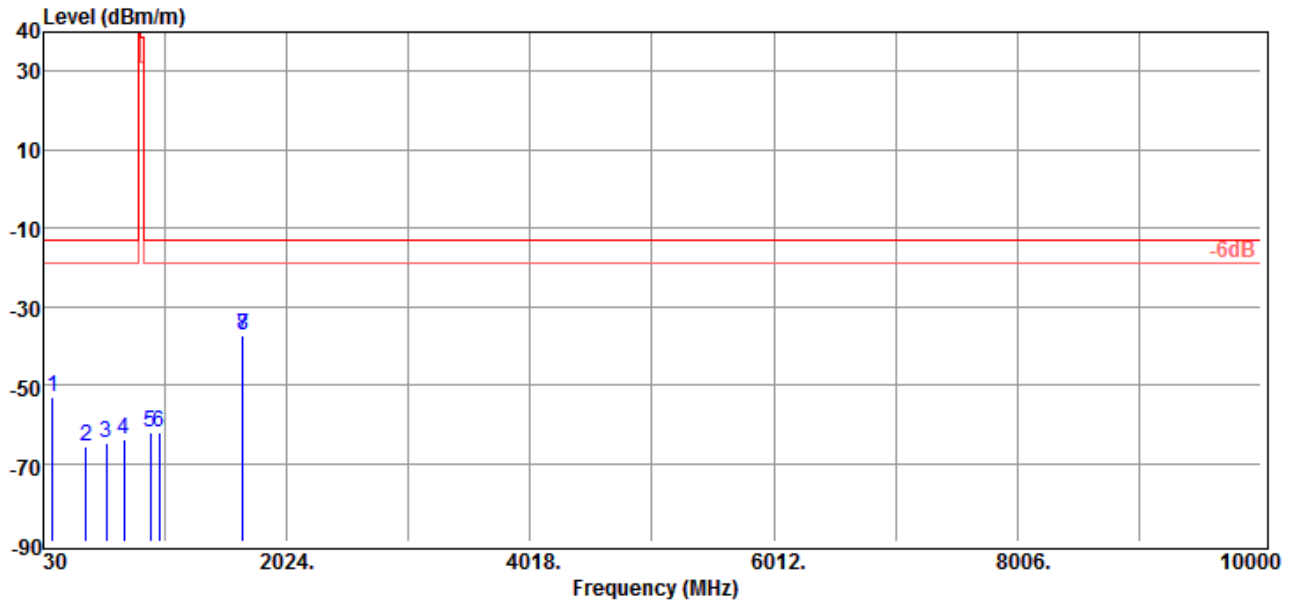
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Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:831.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-53.30	-51.77	-0.66	-0.87	-13.00	-40.30
376.29	-65.68	-69.34	5.66	-2.00	-13.00	-52.68
547.01	-64.60	-68.45	6.22	-2.37	-13.00	-51.60
687.66	-64.04	-68.89	7.20	-2.35	-13.00	-51.04
906.88	-62.02	-67.14	7.60	-2.48	-13.00	-49.02
979.63	-62.03	-66.90	7.75	-2.88	-13.00	-49.03
1663.00	-37.51	-42.51	8.85	-3.85	-13.00	-24.51
1663.00	-37.51	-42.51	8.85	-3.85	-13.00	-24.51

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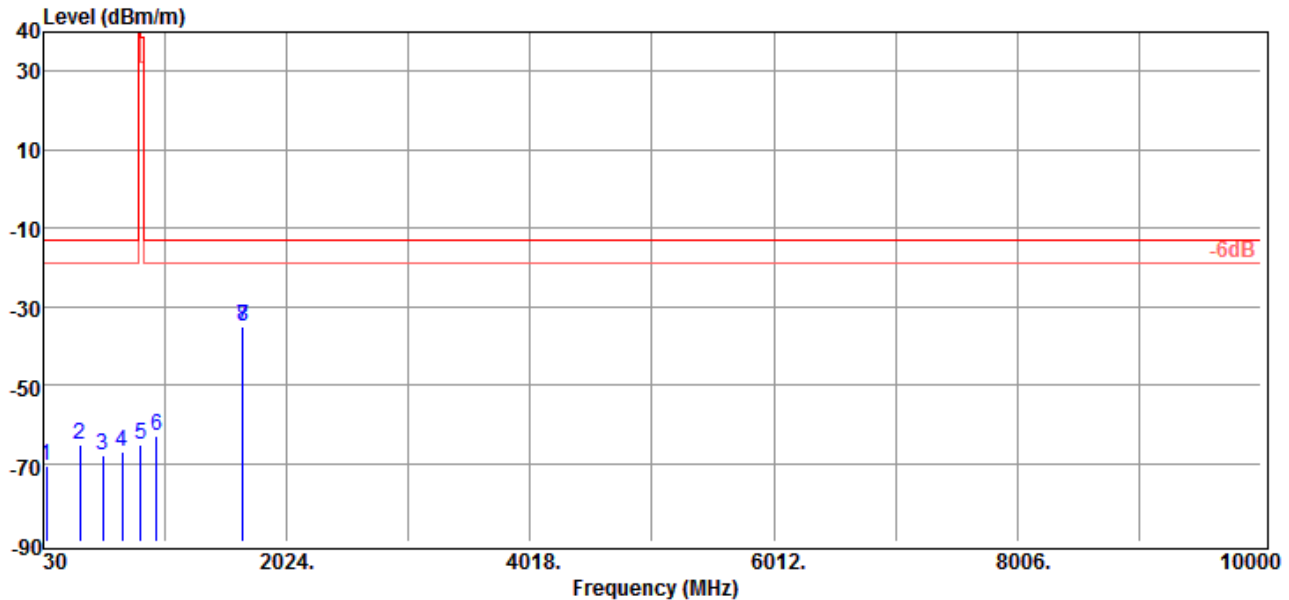
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Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:831.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-70.72	-67.09	-2.97	-0.66	-13.00	-57.72
327.79	-65.23	-69.25	5.82	-1.80	-13.00	-52.23
516.94	-67.99	-71.73	6.27	-2.53	-13.00	-54.99
676.99	-66.95	-71.65	7.11	-2.41	-13.00	-53.95
828.31	-65.16	-70.30	7.53	-2.39	-13.00	-52.16
958.29	-63.04	-67.96	7.69	-2.77	-13.00	-50.04
1663.00	-35.04	-40.04	8.85	-3.85	-13.00	-22.04
1663.00	-35.04	-40.04	8.85	-3.85	-13.00	-22.04

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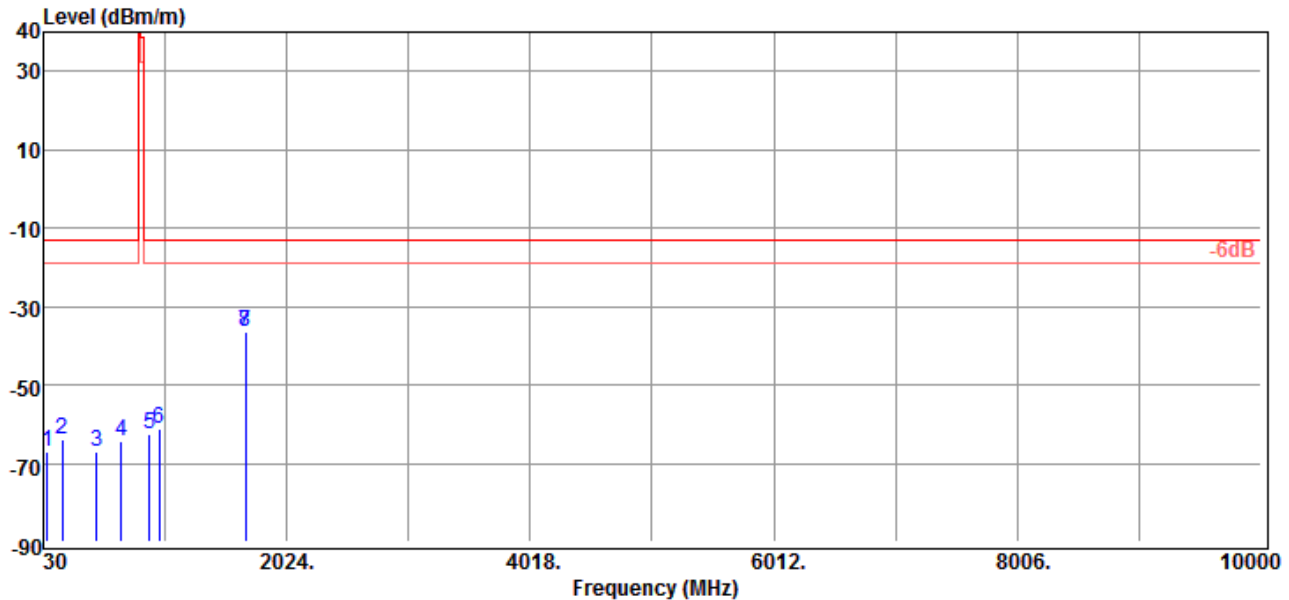
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Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-67.03	-66.31	-0.02	-0.70	-13.00	-54.03
185.20	-63.79	-67.57	4.95	-1.17	-13.00	-50.79
464.56	-67.07	-70.99	6.14	-2.22	-13.00	-54.07
665.35	-64.34	-68.89	7.01	-2.46	-13.00	-51.34
897.18	-62.54	-67.69	7.59	-2.44	-13.00	-49.54
975.75	-61.32	-66.20	7.74	-2.86	-13.00	-48.32
1683.00	-36.63	-41.70	8.94	-3.87	-13.00	-23.63
1683.00	-36.63	-41.70	8.94	-3.87	-13.00	-23.63

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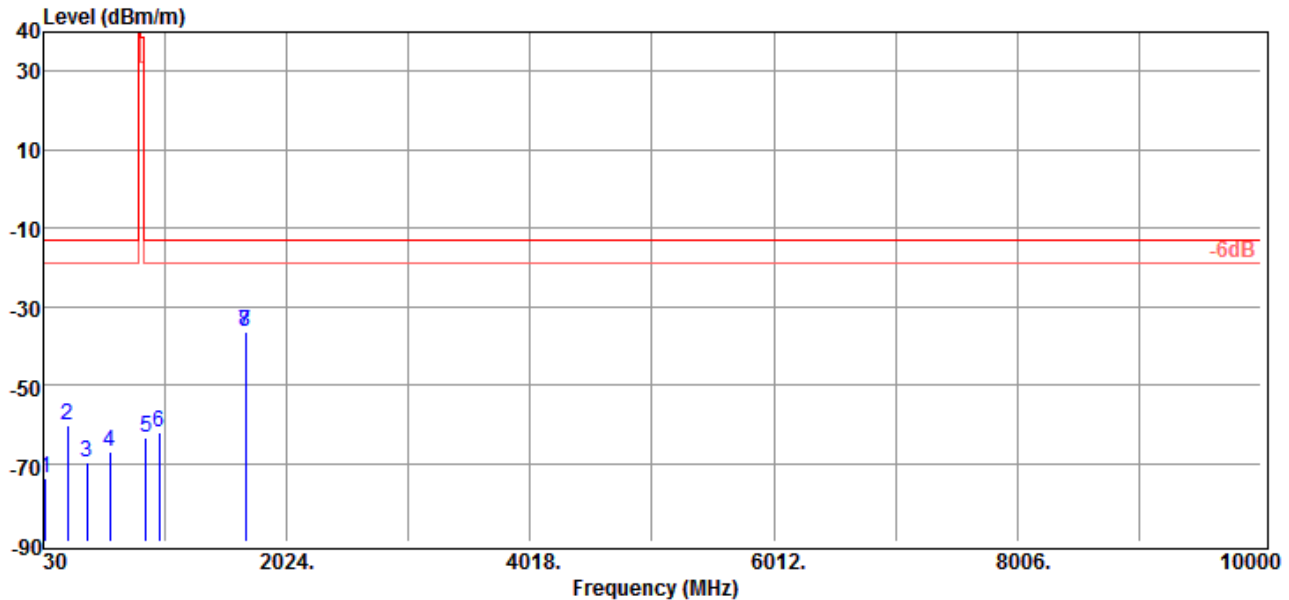
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Operation Mode	:LTE B26	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-73.90	-68.69	-4.55	-0.66	-13.00	-60.90
227.88	-60.24	-64.33	5.44	-1.35	-13.00	-47.24
384.05	-69.83	-73.44	5.62	-2.01	-13.00	-56.83
578.05	-66.99	-71.25	6.48	-2.22	-13.00	-53.99
870.99	-63.32	-68.47	7.54	-2.39	-13.00	-50.32
981.57	-62.30	-67.17	7.76	-2.89	-13.00	-49.30
1683.00	-36.53	-41.60	8.94	-3.87	-13.00	-23.53
1683.00	-36.53	-41.60	8.94	-3.87	-13.00	-23.53

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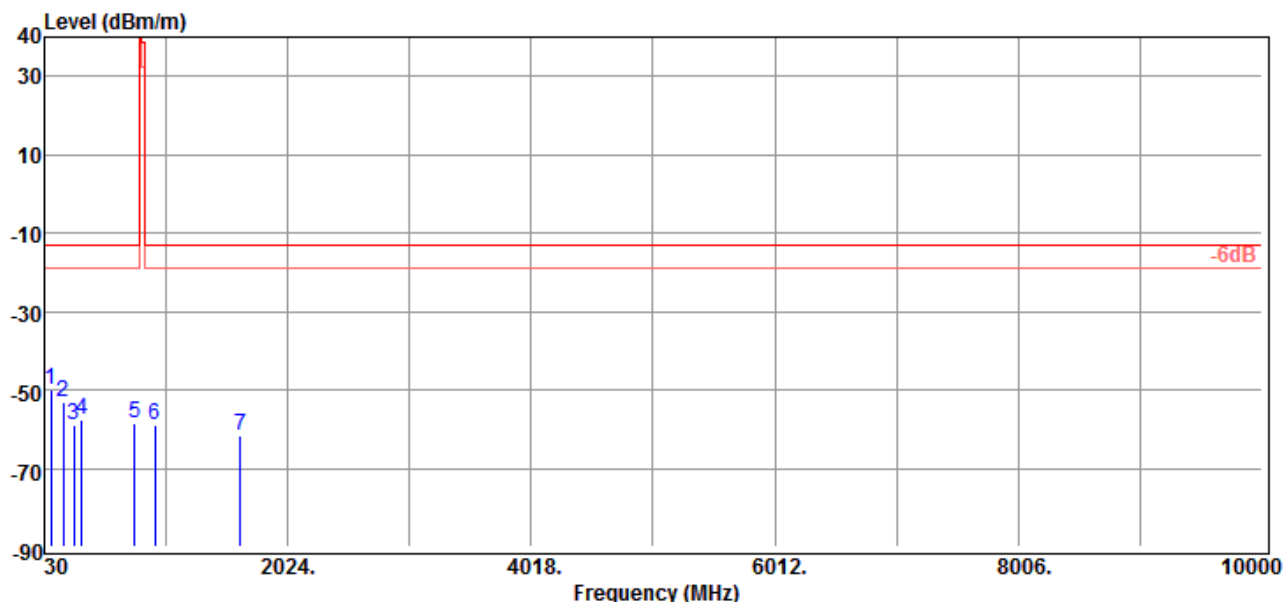
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Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:816.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	-49.77	-49.14	0.17	-0.80	-13.00	-36.77
185.20	-53.04	-56.82	4.95	-1.17	-13.00	-40.04
271.53	-58.93	-62.89	5.48	-1.52	-13.00	-45.93
336.52	-57.81	-61.76	5.81	-1.86	-13.00	-44.81
769.14	-58.51	-63.78	7.47	-2.20	-13.00	-45.51
938.89	-58.74	-63.71	7.64	-2.67	-13.00	-45.74
1633.00	-61.81	-66.72	8.72	-3.81	-13.00	-48.81

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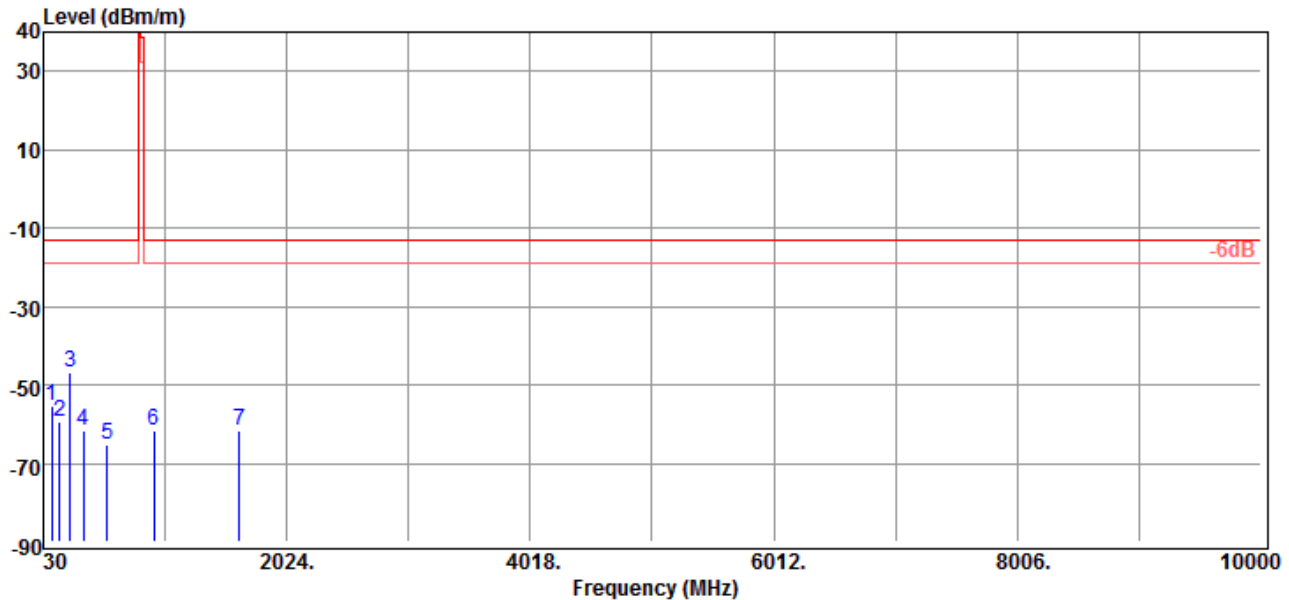
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Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:816.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	-55.24	-53.76	-0.63	-0.85	-13.00	-42.24
162.89	-59.46	-61.88	3.48	-1.06	-13.00	-46.46
250.19	-46.91	-50.64	5.17	-1.44	-13.00	-33.91
359.80	-61.47	-65.24	5.74	-1.97	-13.00	-48.47
551.86	-65.31	-69.21	6.24	-2.34	-13.00	-52.31
933.07	-61.88	-66.89	7.64	-2.63	-13.00	-48.88
1633.00	-61.72	-66.63	8.72	-3.81	-13.00	-48.72

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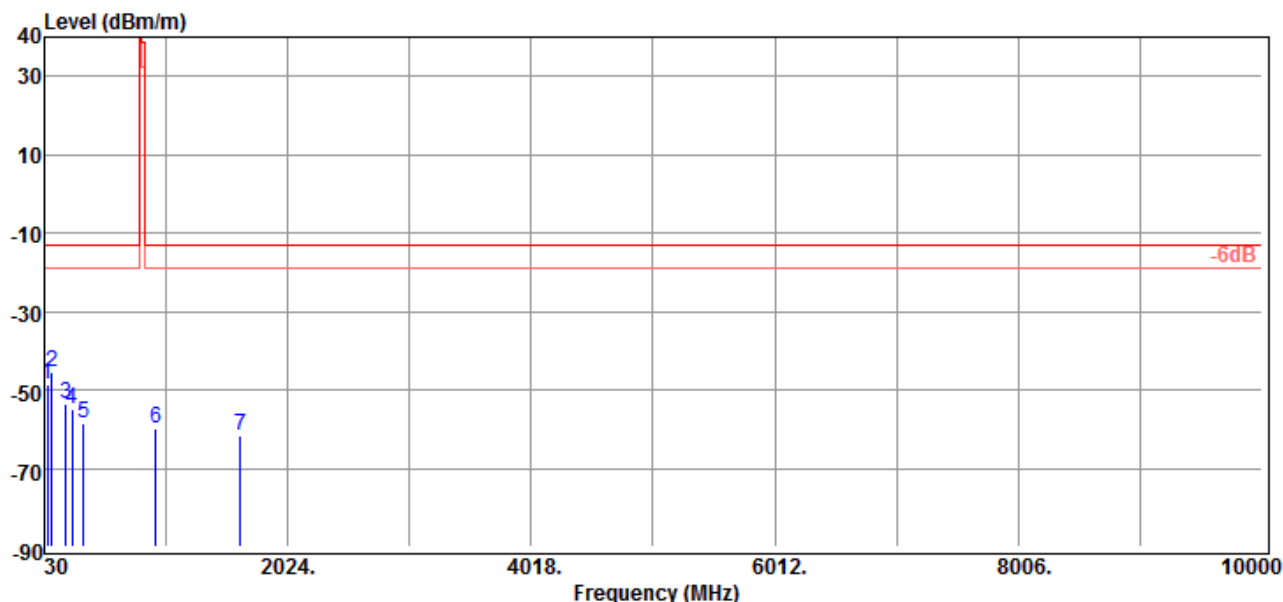
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Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-48.66	-44.64	-3.36	-0.66	-13.00	-35.66
92.08	-45.56	-44.54	-0.20	-0.82	-13.00	-32.56
206.54	-53.57	-58.03	5.73	-1.27	-13.00	-40.57
258.92	-54.85	-58.68	5.30	-1.47	-13.00	-41.85
353.98	-58.57	-62.38	5.77	-1.96	-13.00	-45.57
943.74	-60.03	-64.99	7.65	-2.69	-13.00	-47.03
1638.00	-61.48	-66.40	8.74	-3.82	-13.00	-48.48

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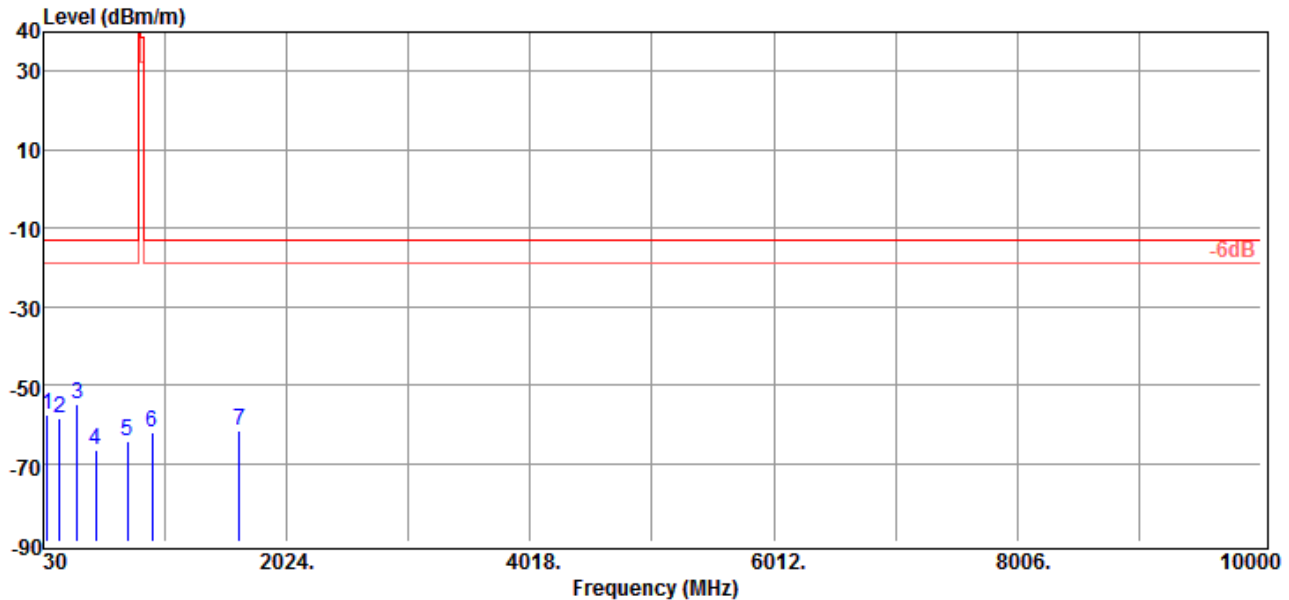
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Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-57.56	-56.60	-0.28	-0.68	-13.00	-44.56
166.77	-58.40	-61.07	3.75	-1.08	-13.00	-45.40
304.51	-54.78	-58.97	5.84	-1.65	-13.00	-41.78
457.77	-66.50	-70.46	6.11	-2.15	-13.00	-53.50
718.70	-64.32	-69.47	7.35	-2.20	-13.00	-51.32
917.55	-62.24	-67.32	7.62	-2.54	-13.00	-49.24
1638.00	-61.68	-66.60	8.74	-3.82	-13.00	-48.68

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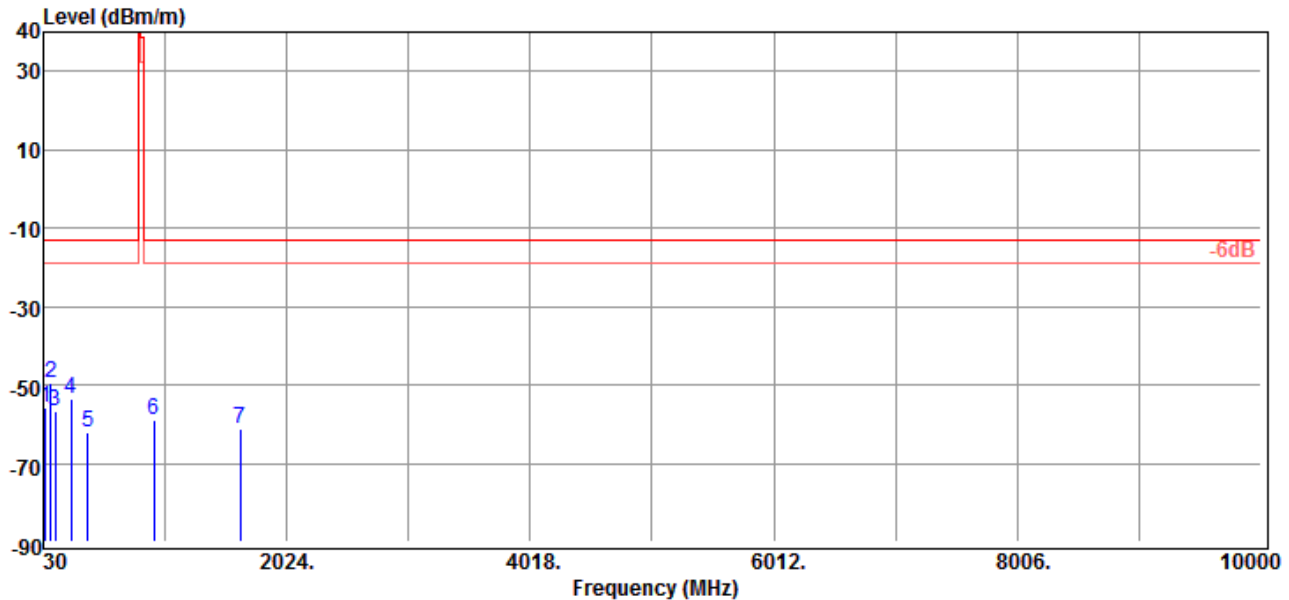
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Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:821.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-55.64	-47.25	-7.76	-0.63	-13.00	-42.64
88.20	-49.40	-48.70	0.11	-0.81	-13.00	-36.40
129.91	-56.63	-57.00	1.32	-0.95	-13.00	-43.63
256.98	-53.67	-57.47	5.27	-1.47	-13.00	-40.67
391.81	-62.31	-65.87	5.59	-2.03	-13.00	-49.31
938.89	-59.05	-64.02	7.64	-2.67	-13.00	-46.05
1643.00	-61.08	-66.02	8.76	-3.82	-13.00	-48.08

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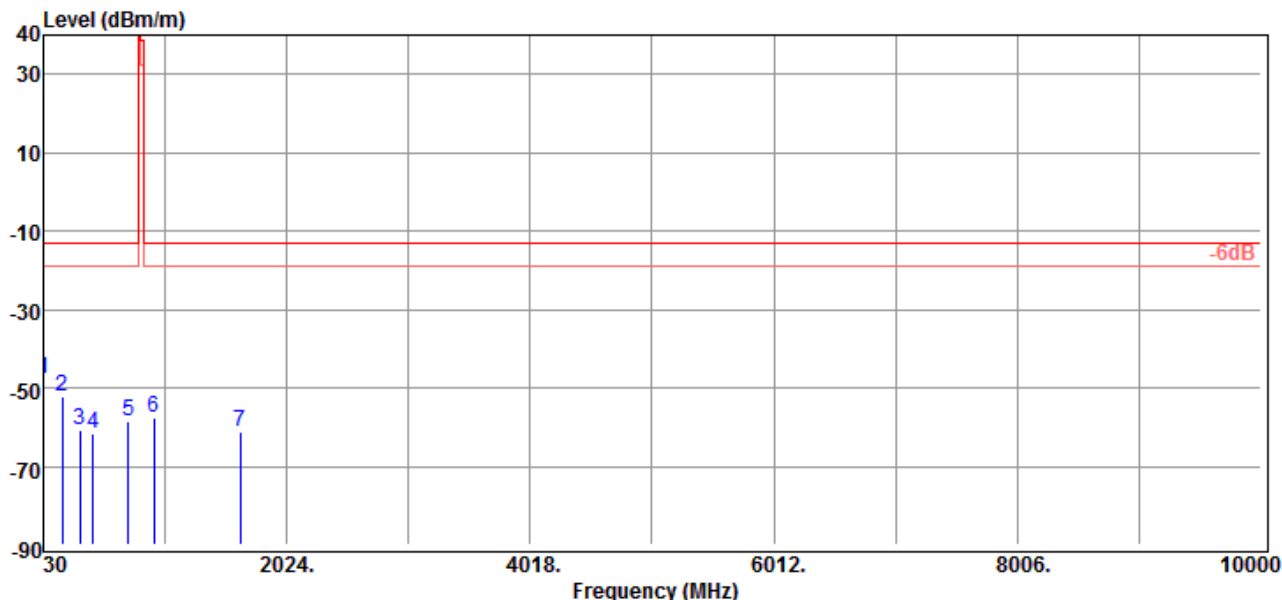
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Operation Mode	:Part90 5M QPSK RB1,0	Test Date	:2018-08-09
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:821.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.74	-27.25	-20.05	-0.44	-13.00	-34.74
187.14	-52.25	-56.14	5.07	-1.18	-13.00	-39.25
329.73	-60.55	-64.54	5.81	-1.82	-13.00	-47.55
434.49	-61.60	-65.47	5.92	-2.05	-13.00	-48.60
729.37	-58.33	-63.55	7.37	-2.15	-13.00	-45.33
935.01	-57.46	-62.46	7.64	-2.64	-13.00	-44.46
1643.00	-61.18	-66.12	8.76	-3.82	-13.00	-48.18

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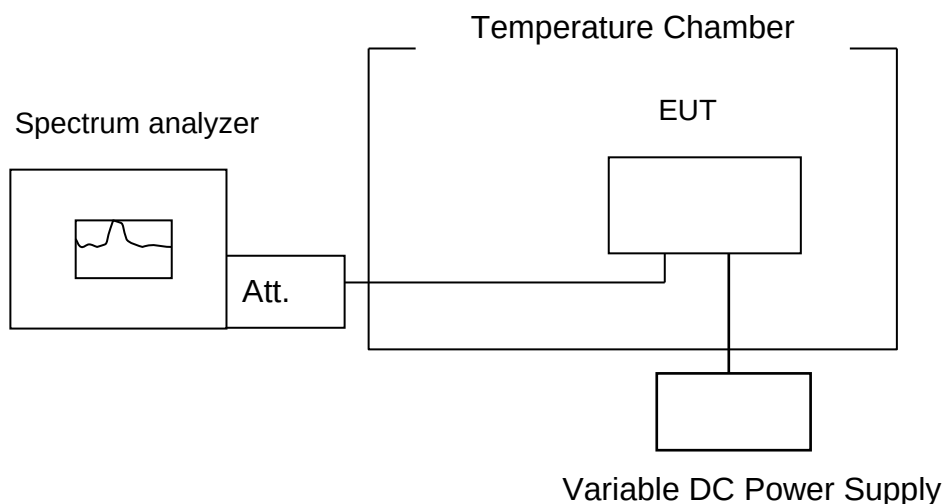
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10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2018	06/12/2019

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10.5. Measurement Result

Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	1879.999988	-12	4700
12	25	1879.999991	-9	4700
10.2	25	1879.999984	-16	4700
10.1 (End Point)	25	1880.000005	5.0000001	4700
Freq. ERROR vs. Temp.				
12	-30	1879.999979	-21	4700
12	-20	1879.999981	-19	4700
12	-10	1879.999979	-21	4700
12	0	1880.000003	3.0000001	4700
12	10	1880.000003	3.0000001	4700
12	20	1879.999984	-16	4700
12	30	1880.000006	6	4700
12	40	1880.000011	11	4700
12	50	1880.000002	2	4700

Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	1732.500005	5.0000001	4331
12	25	1732.500009	9.0000001	4331
10.2	25	1732.500020	20	4331
10.1 (End Point)	25	1732.500019	19	4331
Freq. ERROR vs. Temp.				
12	-30	1732.499995	-5	4331
12	-20	1732.500013	13	4331
12	-10	1732.500011	11	4331
12	0	1732.499982	-18	4331
12	10	1732.500014	14	4331
12	20	1732.500022	22	4331
12	30	1732.499991	-9	4331
12	40	1732.500014	14	4331
12	50	1732.500001	1.0000001	4331

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Reference Freq.: LTE B5 Mid Channel 836.5 MHz 10M QPSK CH 20525				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	836.500017	17	2091
12	25	836.500015	15	2091
10.2	25	836.499986	-14	2091
10.1 (End Point)	25	836.499984	-16	2091
Freq. ERROR vs. Temp.				
12	-30	836.499997	-3	2091
12	-20	836.500000	0	2091
12	-10	836.499981	-19	2091
12	0	836.500018	18	2091
12	10	836.500000	0	2091
12	20	836.500024	24	2091
12	30	836.500020	20	2091
12	40	836.500003	3	2091
12	50	836.500005	5	2091

Reference Freq.: LTE B12 Mid Channel 707.5 MHz 10M QPSK CH 23095				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	707.499994	-6	1769
12	25	707.499984	-16	1769
10.2	25	707.499979	-21	1769
10.1 (End Point)	25	707.500001	1	1769
Freq. ERROR vs. Temp.				
12	-30	707.500004	4	1769
12	-20	707.499991	-9	1769
12	-10	707.499991	-9	1769
12	0	707.499981	-19	1769
12	10	707.499984	-16	1769
12	20	707.500006	6	1769
12	30	707.499990	-10	1769
12	40	707.500016	16	1769
12	50	707.499991	-9	1769

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Reference Freq.: LTE B25 Mid Channel 1882.5 MHz 20M QPSK CH 26365				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	1882.500015	15.0000001	4700
12	25	1882.499979	-21.0000001	4700
10.2	25	1882.500007	7.0000001	4700
10.1 (End Point)	25	1882.499992	-7.99999998	4700
Freq. ERROR vs. Temp.				
12	-30	1882.499987	1172499987	4700
12	-20	1882.499992	1172499992	4700
12	-10	1882.500010	1172500010	4700
12	0	1882.499982	1172499982	4700
12	10	1882.500010	1172500010	4700
12	20	1882.499990	1172499990	4700
12	30	1882.500003	1172500003	4700
12	40	1882.500003	1172500003	4700
12	50	1882.499996	1172499996	4700

Reference Freq.: LTE B26 Mid Channel 831.5 MHz 15M QPSK CH 26865				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
15	25	831.500016	16	2091
12	25	831.499979	-21	2091
10.2	25	831.499981	-19	2091
10.1 (End Point)	25	831.499993	-7	2091
Freq. ERROR vs. Temp.				
12	-30	831.499977	-23	2091
12	-20	831.499983	-17	2091
12	-10	831.500007	7	2091
12	0	831.499978	-22	2091
12	10	831.499978	-22	2091
12	20	831.500004	4	2091
12	30	831.499979	-21	2091
12	40	831.499989	-11	2091
12	50	831.499995	-5	2091

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Reference Freq.:		Part 90 LTE B26 Mid Channel		819 MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
15	25	818.999988	-12	2048
12	25	819.000008	8	2048
10.2	25	818.999978	-22	2048
10.1 (End Point)	25	818.999992	-8	2048
Freq. ERROR vs. Temp.				
12	-30	819.000007	7	2048
12	-20	818.999996	-4	2048
12	-10	819.000008	8	2048
12	0	819.000023	23	2048
12	10	819.000000	0	2048
12	20	819.000023	23	2048
12	30	818.999984	-16	2048
12	40	818.999999	-1	2048
12	50	819.000022	22	2048

Note: The power is rated 120V dc.

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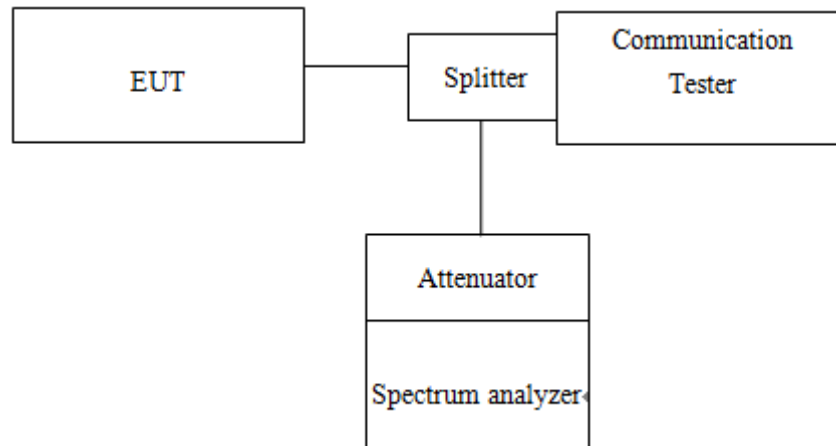
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11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25

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11.5. Measurement Result

Tabular Results:

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	18607	5.03	13	1851.5	18615	5.33	13
1880.0	18900	5.10	13	1880.0	18900	5.34	13
1909.3	19193	5.46	13	1908.5	19185	5.61	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	18625	5.24	13	1855.0	18650	5.46	13
1880.0	18900	5.31	13	1880.0	18900	5.78	13
1907.5	19175	5.48	13	1905.0	19150	5.53	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	18675	6.04	13	1860.0	18700	6.60	13
1880.0	18900	5.90	13	1880.0	18900	6.51	13
1902.5	19125	5.90	13	1900.0	19100	6.63	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1710.7	19957	5.14	13	1711.5	19965	5.37	13
1732.5	20175	5.07	13	1732.5	20175	5.62	13
1754.3	20393	4.99	13	1753.5	20385	5.28	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1712.5	19957	5.51	13	1715.0	20000	5.65	13
1732.5	20175	5.64	13	1732.5	20175	5.71	13
1752.5	20375	5.30	13	1750.0	20350	5.58	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1717.5	20025	5.97	13	1720.0	20050	6.52	13
1732.5	20175	6.15	13	1732.5	20175	6.66	13
1747.5	20325	6.12	13	1745.0	20300	6.63	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
824.7	20407	6.05	13	825.5	20415	6.07	13
836.5	20525	5.67	13	836.5	20525	5.95	13
848.3	20643	5.09	13	847.5	20635	5.35	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
826.5	20425	5.96	13	829.0	20450	6.06	13
836.5	20525	5.90	13	836.5	20525	6.08	13
846.5	20625	5.39	13	844.0	20600	5.94	13

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LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
699.7	23017	6.03	13	700.5	23025	6.19	13
707.5	23095	5.45	13	707.5	23095	5.76	13
715.3	23173	5.75	13	714.5	23165	6.05	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
701.5	23035	6.23	13	704.0	23060	5.87	13
707.5	23095	5.69	13	707.5	23095	5.93	13
713.5	23155	6.17	13	711.0	23130	6.20	13

LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1850.7	26047	4.99	13	1851.5	26055	5.38	13
1882.5	26365	5.18	13	1882.5	26365	5.39	13
1914.3	26683	5.35	13	1913.5	26675	5.83	13

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1852.5	26065	5.13	13	1855.0	26090	5.46	13
1882.5	26365	5.17	13	1882.5	26365	5.49	13
1912.5	26665	5.69	13	1910.0	26640	5.75	13

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
1857.5	26115	5.99	13	1860.0	26140	6.61	13
1882.5	26365	5.95	13	1882.5	26365	6.48	13
1907.5	26615	6.00	13	1905.0	26590	6.55	13

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LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.02	13	815.5	26705	5.38	13
831.5	26865	5.25	13	831.5	26865	5.60	13
848.3	27033	4.82	13	847.5	27025	5.17	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.36	13	820.0	26750	5.70	13
831.5	26865	5.60	13	831.5	26865	5.64	13
846.5	27015	5.19	13	844.0	26990	5.49	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)					
		64QAM	Limit				
822.5	26775	6.22	13				
831.5	26865	6.00	13				
841.5	26965	6.08	13				

LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
814.7	26697	5.10	13	815.5	26705	5.43	13
819.0	26740	5.42	13	819	26740	5.65	13
823.3	26783	5.82	13	822.5	26775	5.83	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		64QAM	Limit			64QAM	Limit
816.5	26715	5.44	13	819.0	26740	5.77	13
819.0	26740	5.61	13				
821.5	26765	5.83	13				

Please refer to next page for test plots.

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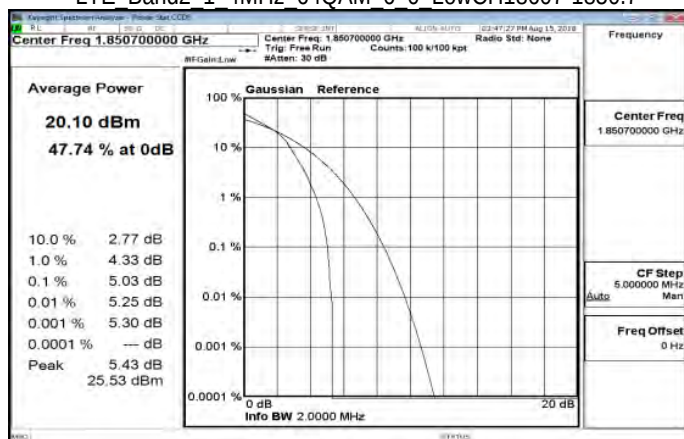
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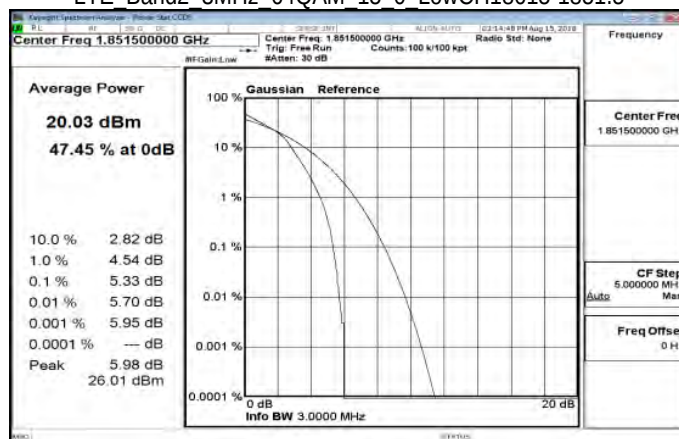
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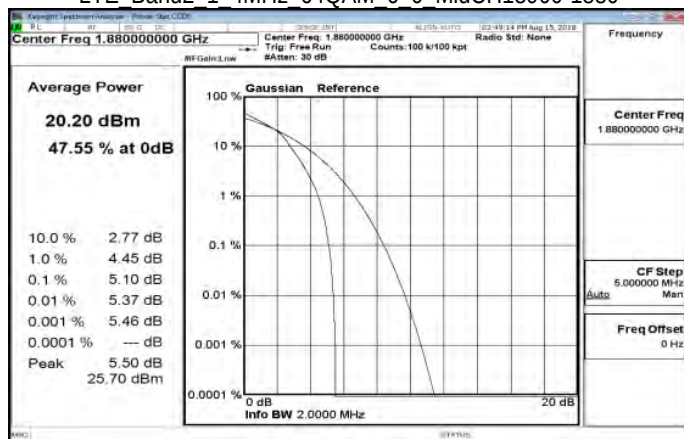
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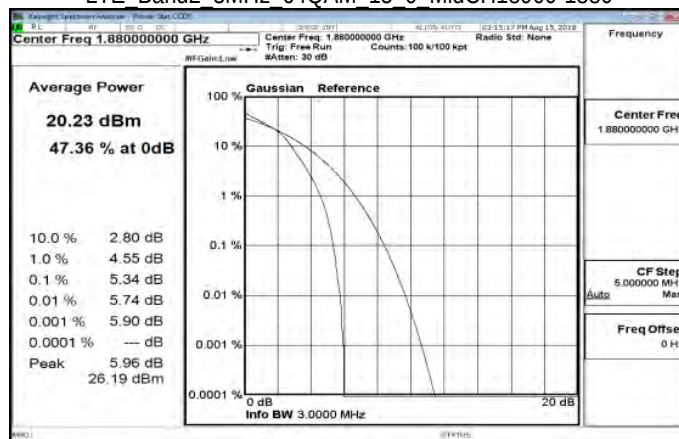
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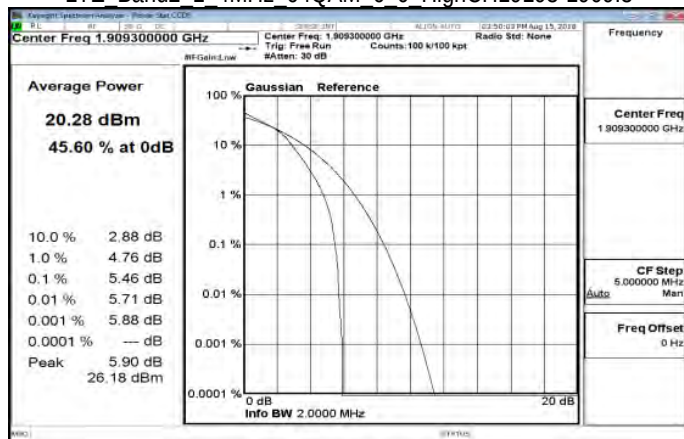
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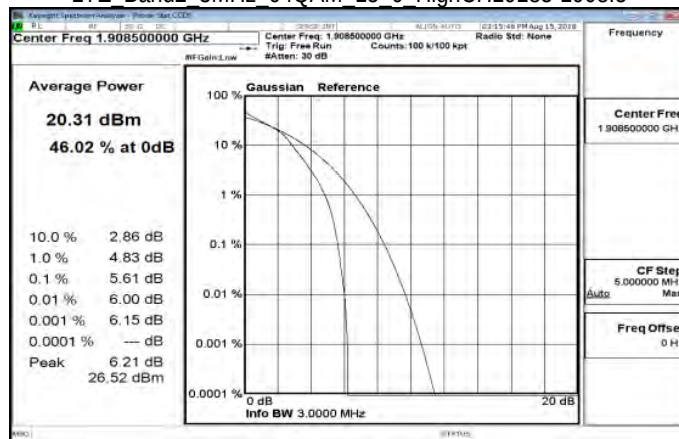
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LTE Band2 1 4MHz 64QAM 6 0 HighCH19193-1909.3



LTE Band2 3MHz 64QAM 15 0 HighCH19185-1908.5



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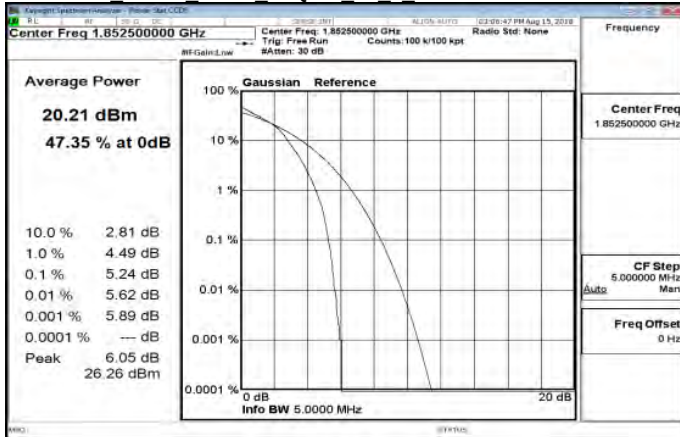
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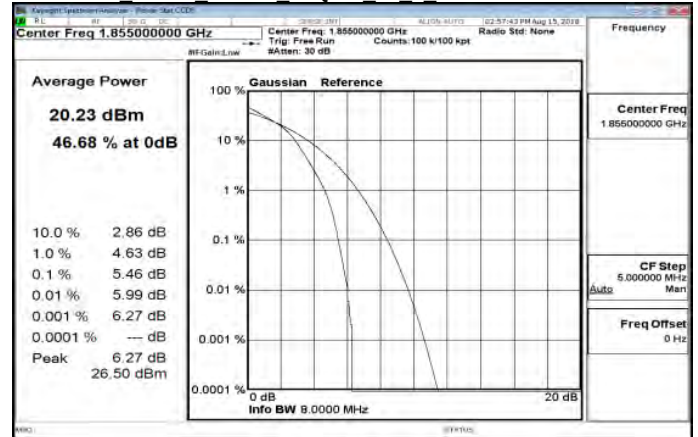
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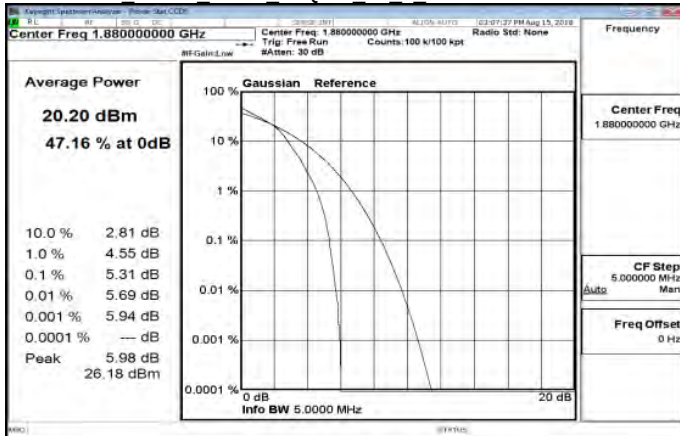
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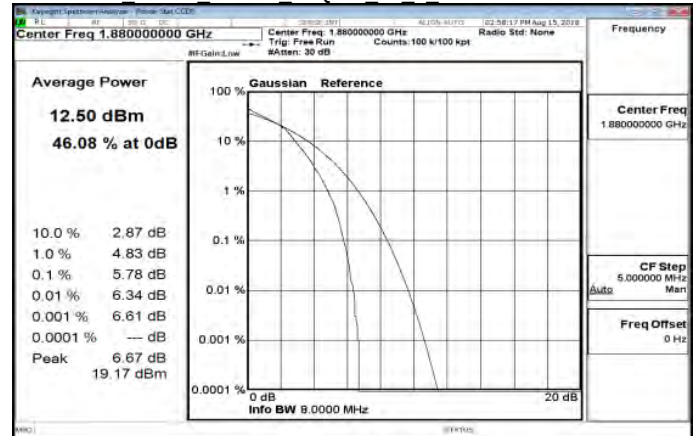
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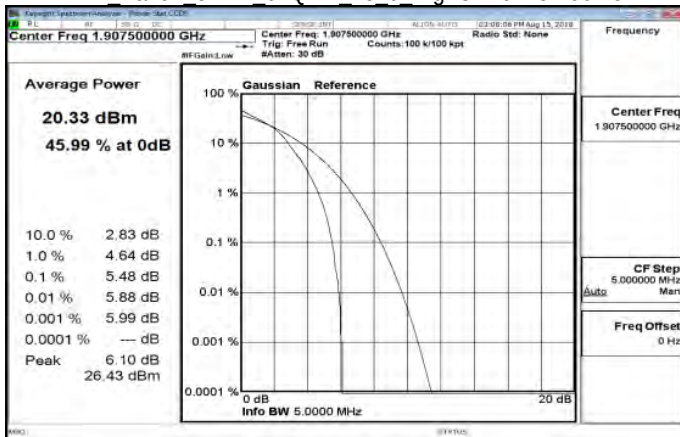
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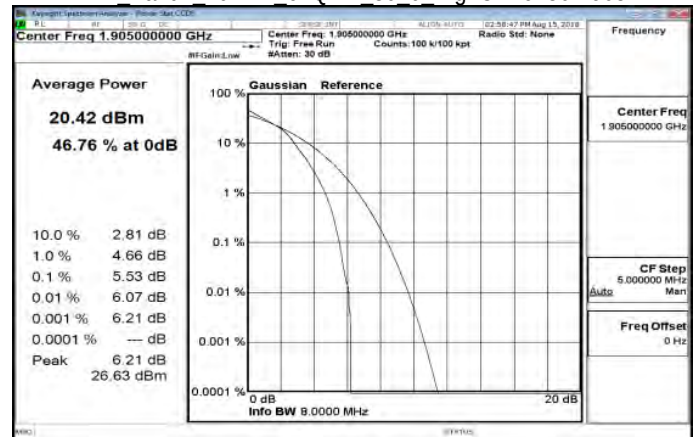
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LTE Band2 10MHz 64QAM 50 0 HighCH19150-1905



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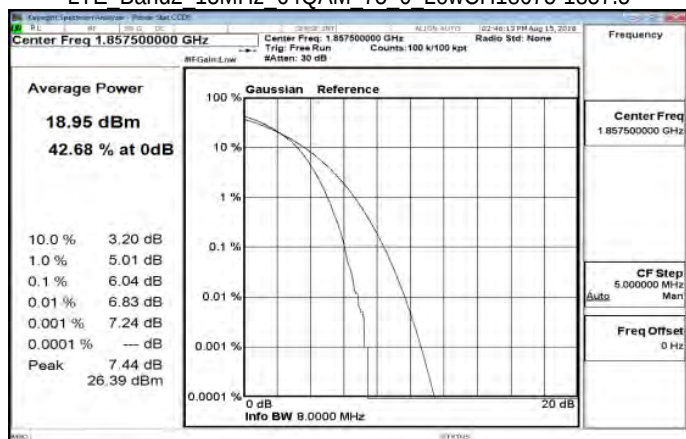
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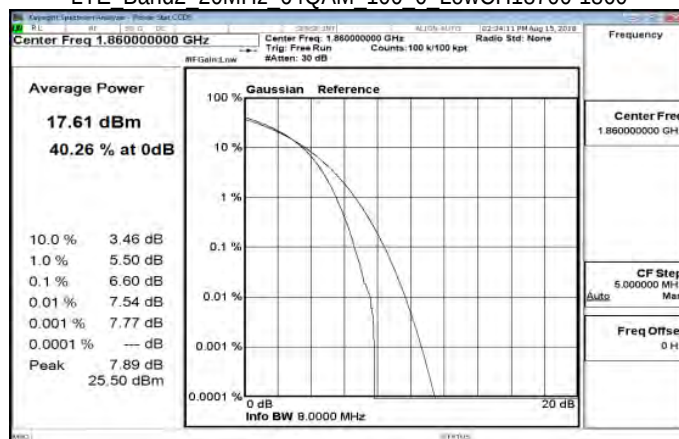
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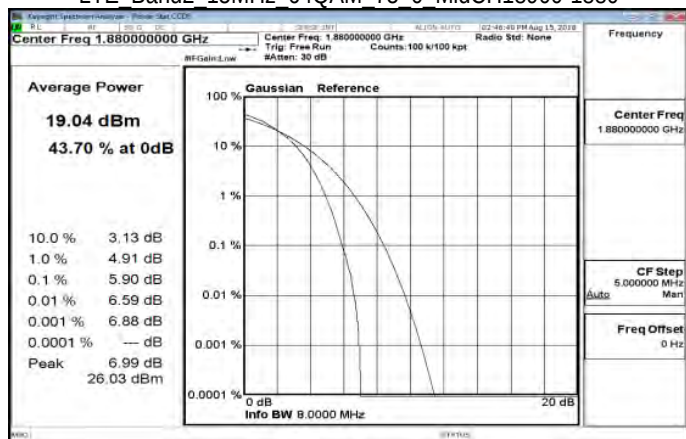
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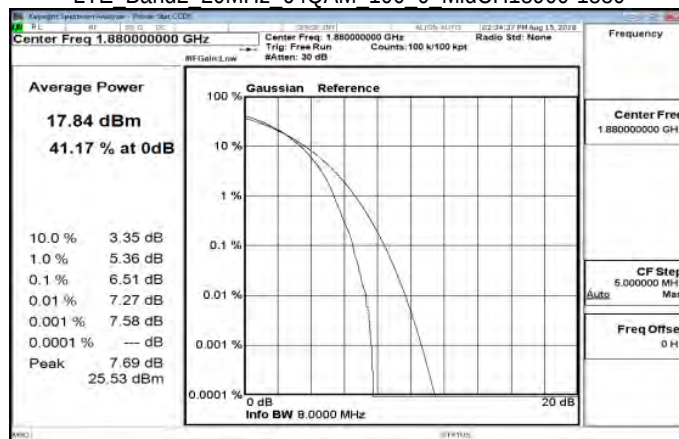
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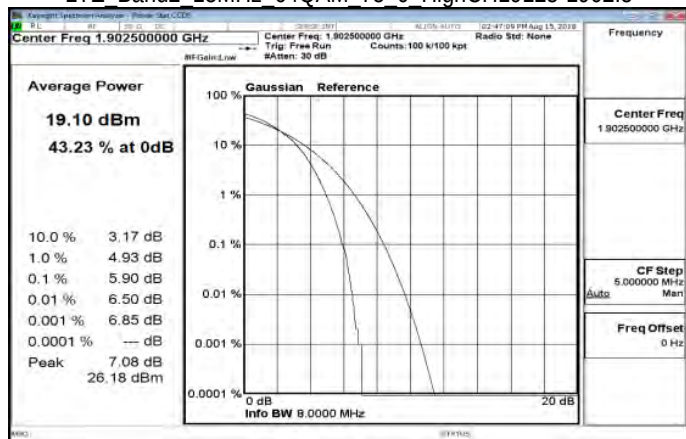
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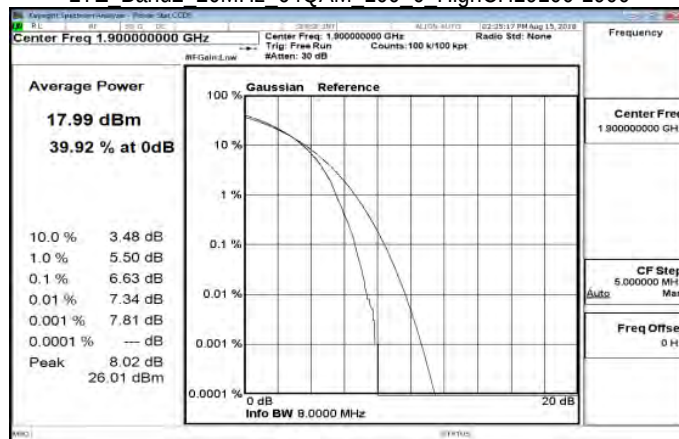
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LTE Band2 20MHz 64QAM 100 0 HighCH19100-1900



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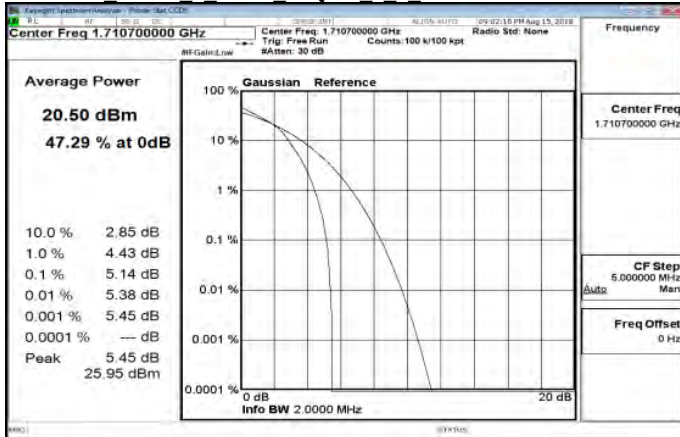
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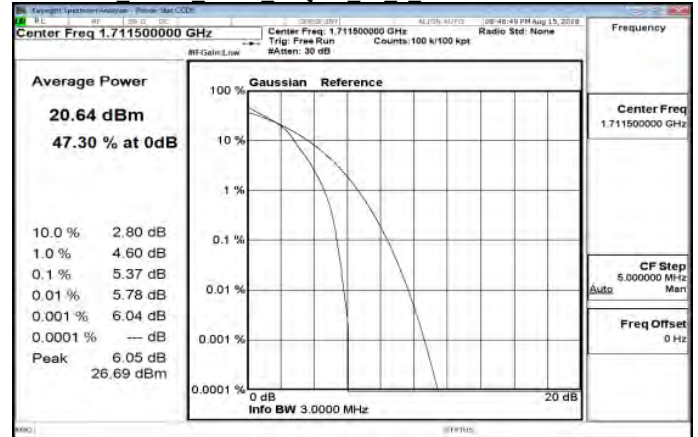
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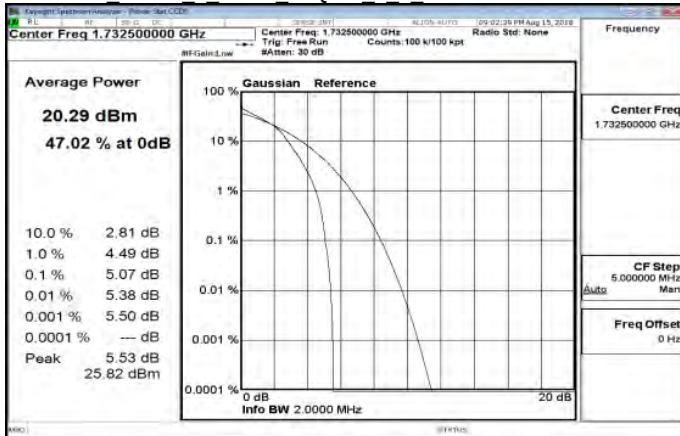
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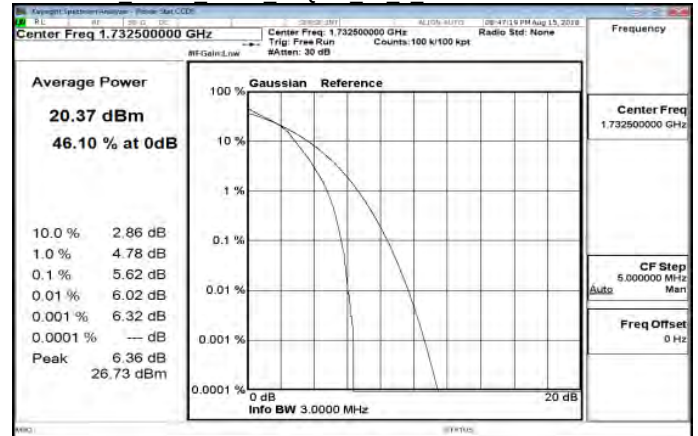
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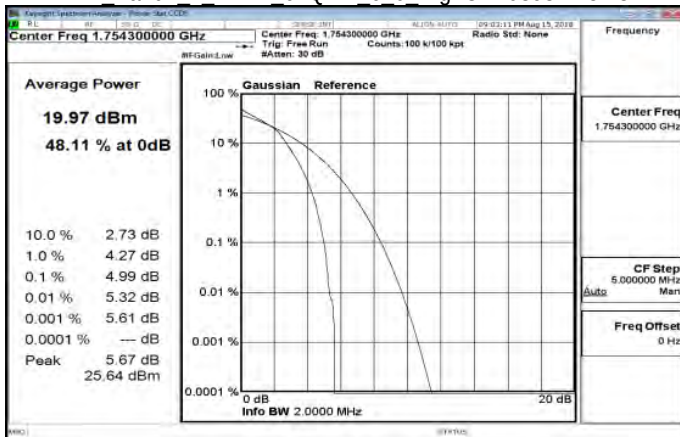
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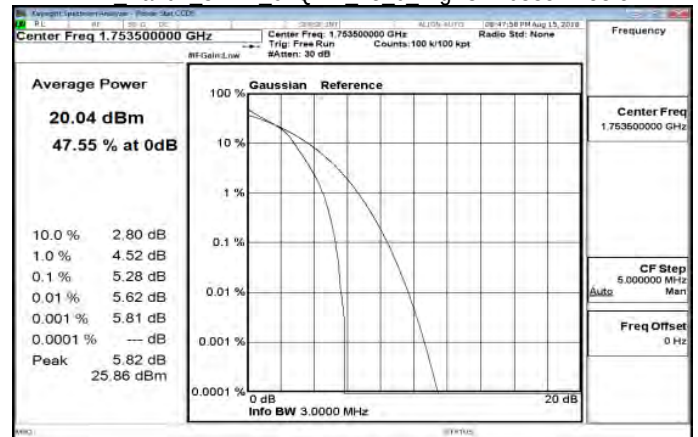
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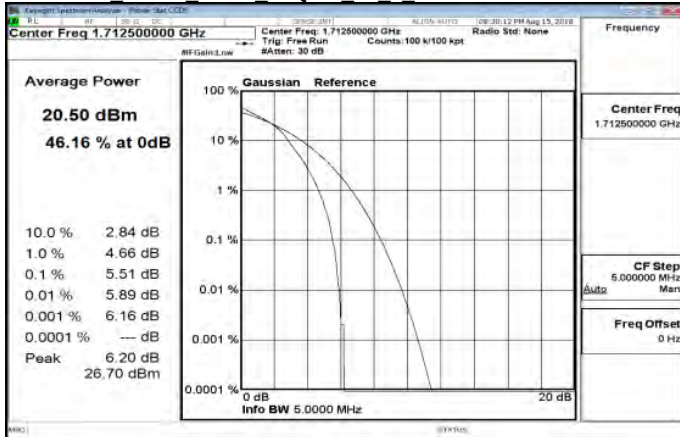
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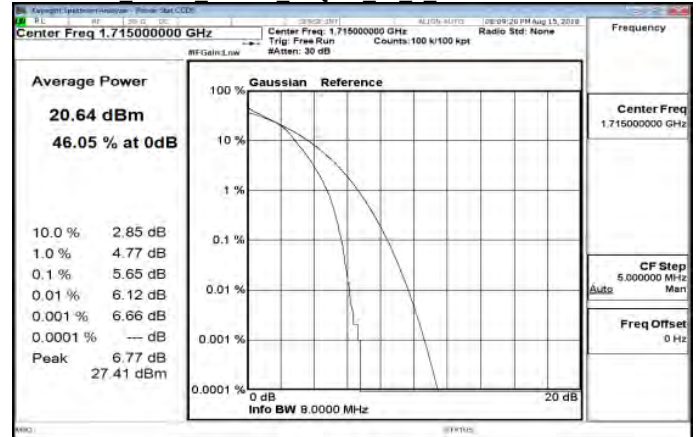
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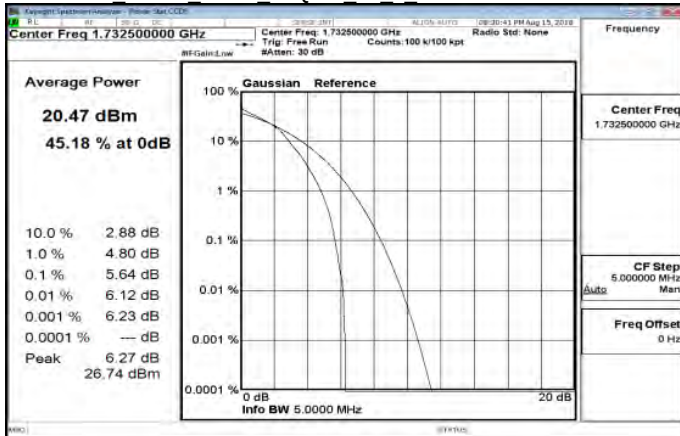
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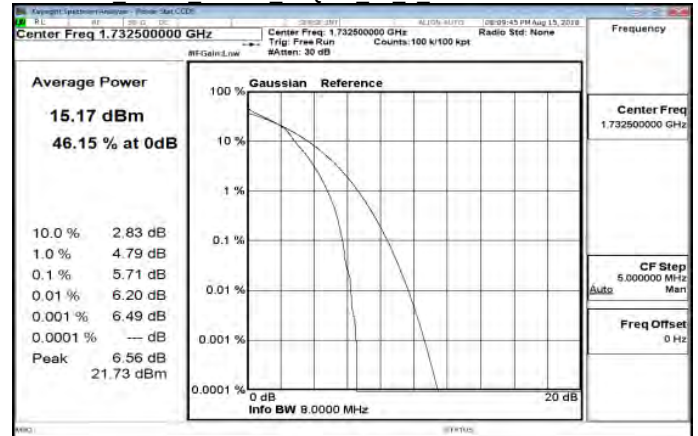
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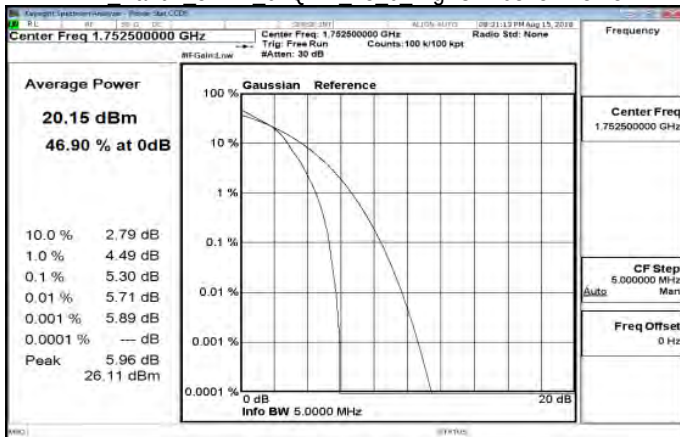
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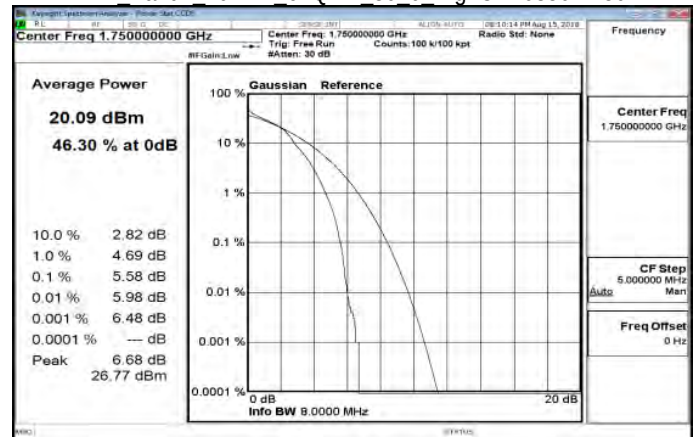
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LTE Band4 10MHz 64QAM 50 0 HighCH20350-1750



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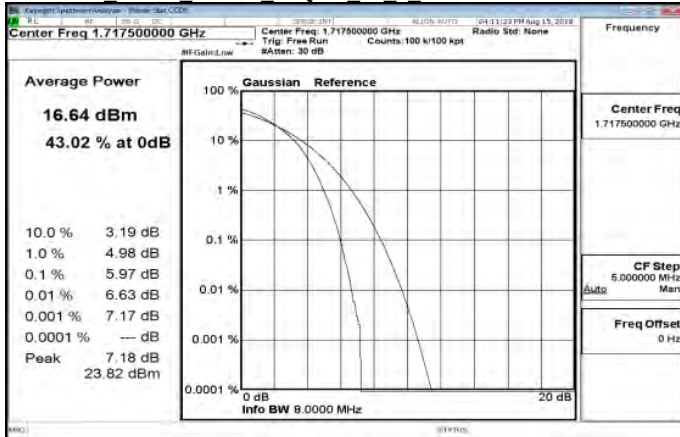
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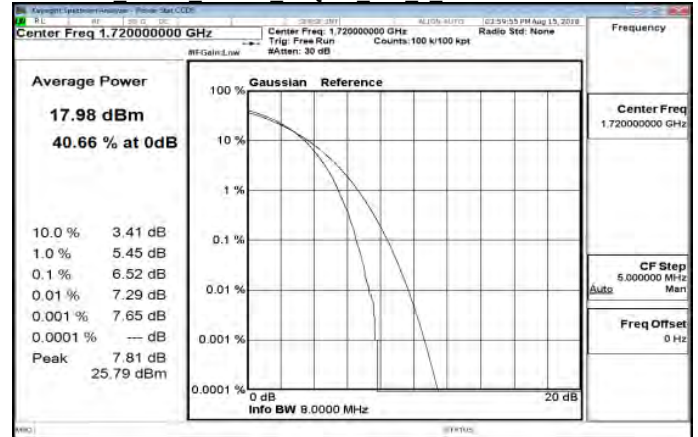
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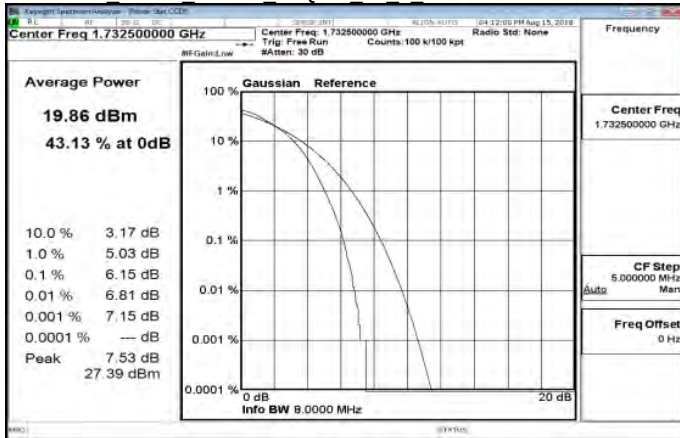
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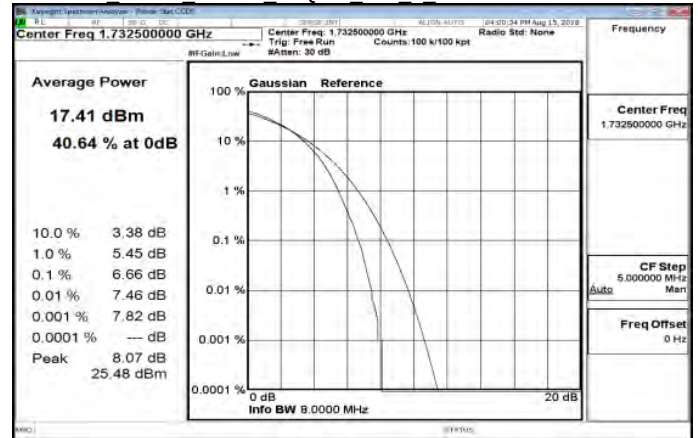
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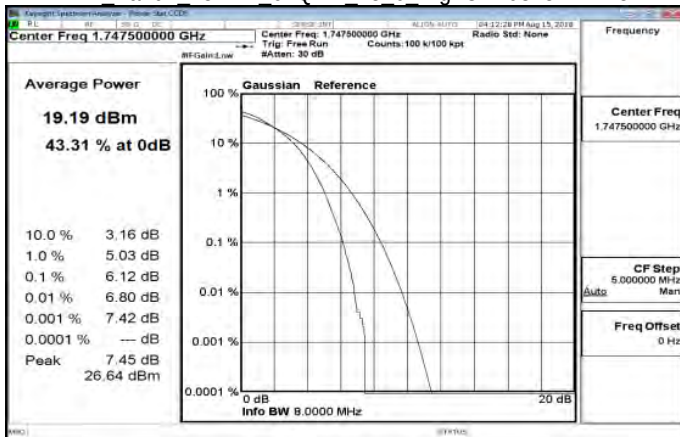
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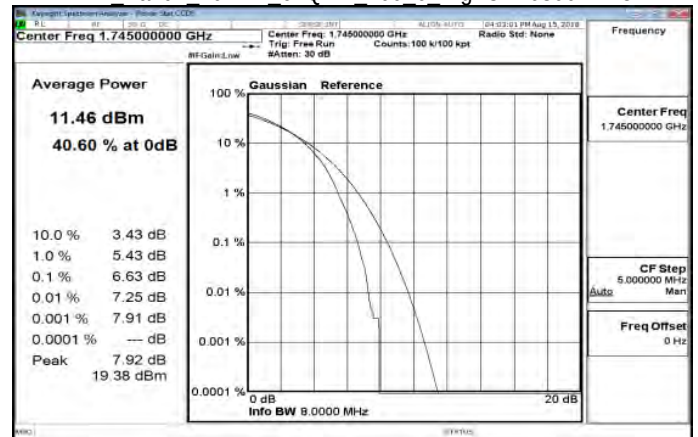
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LTE Band4 20MHz 64QAM 100 0 HighCH20300-1745



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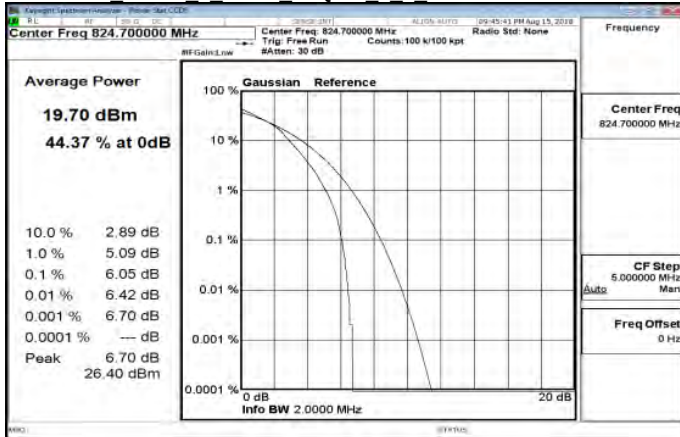
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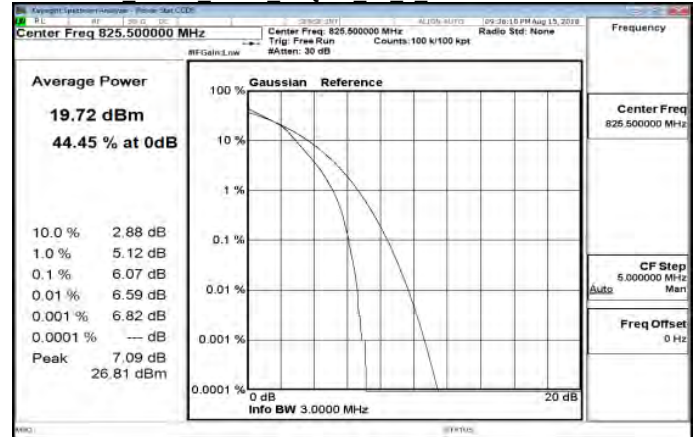
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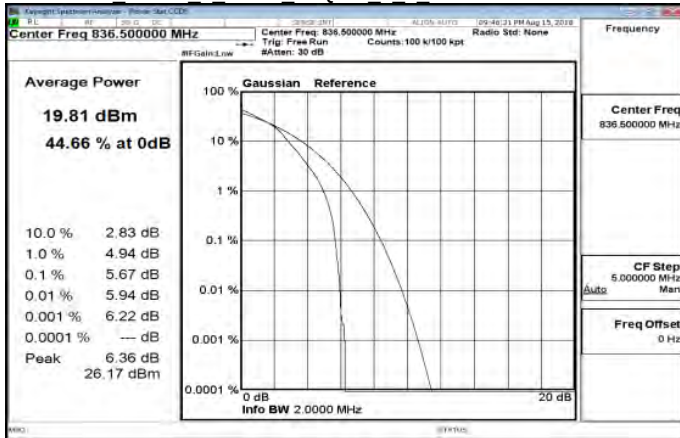
LTE Band5 1 4MHz 64QAM 6 0 LowCH20407-824.7



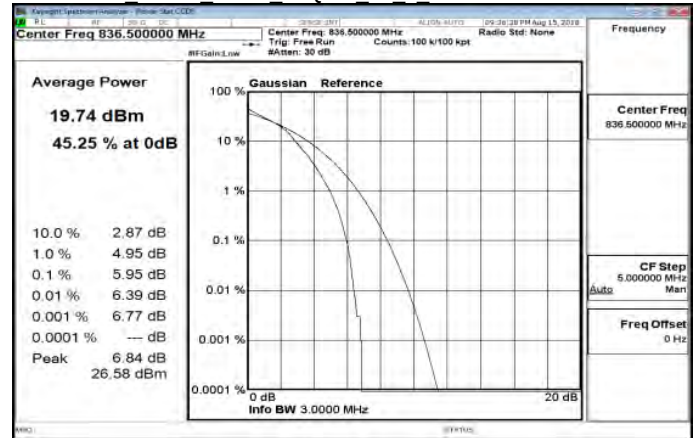
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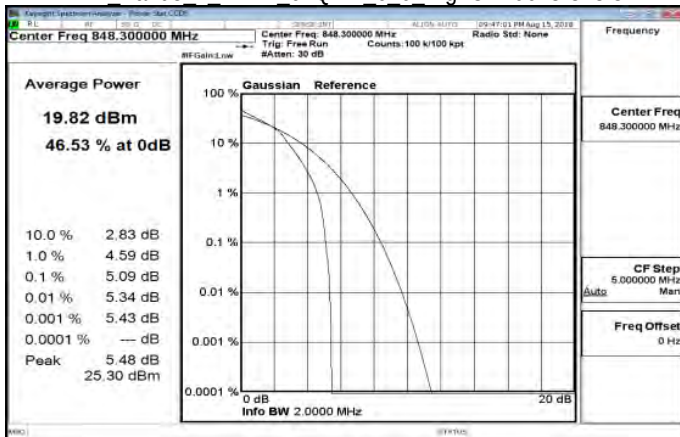
LTE Band5 1 4MHz 64QAM 6 0 MidCH20525-836.5



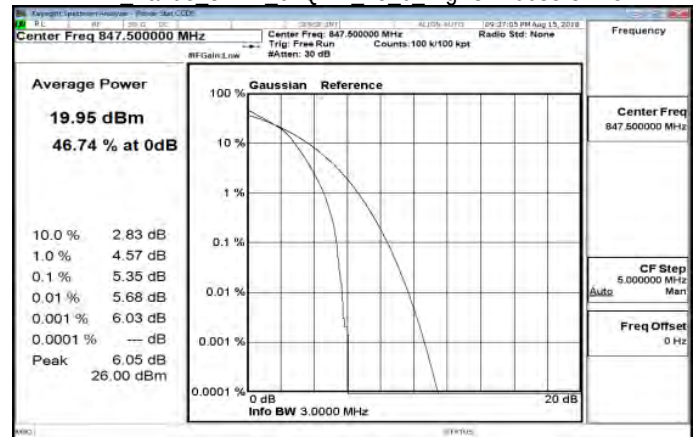
LTE Band5 3MHz 64QAM 15 0 MidCH20525-836.5



LTE Band5 1 4MHz 64QAM 6 0 HighCH20643-848.3



LTE Band5 3MHz 64QAM 15 0 HighCH20635-847.5



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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