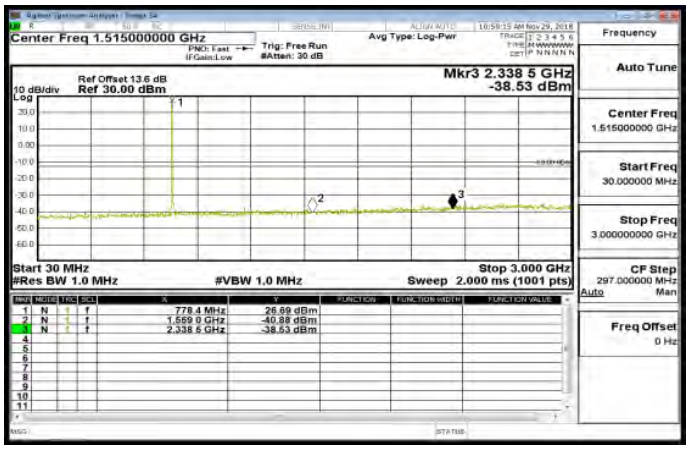
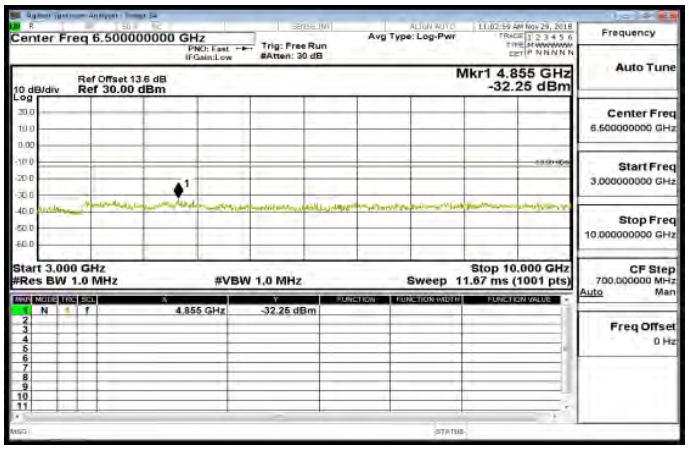
30MHz~3GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



3GHz~10GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



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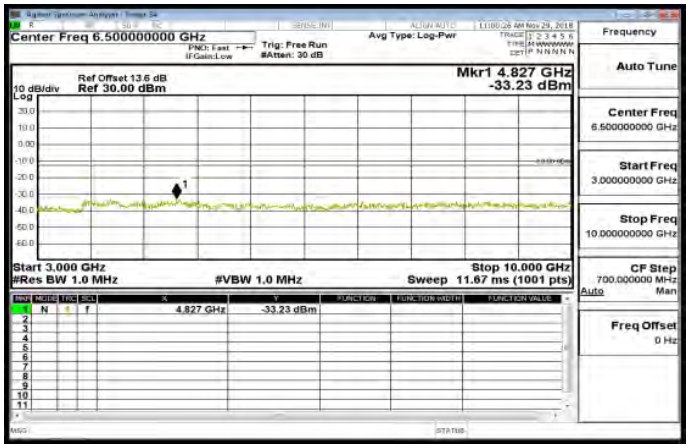
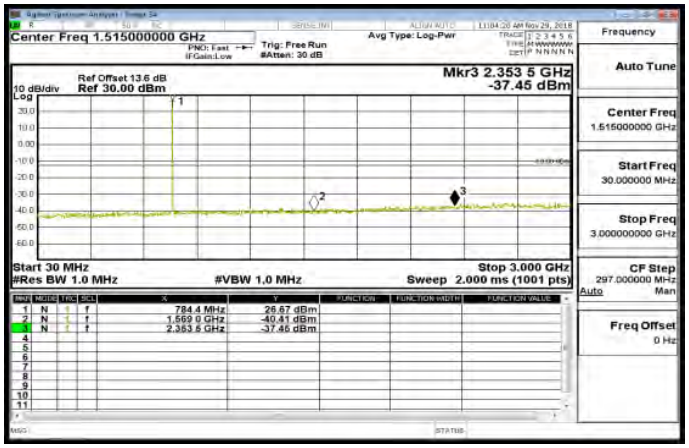


30MHz~3GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



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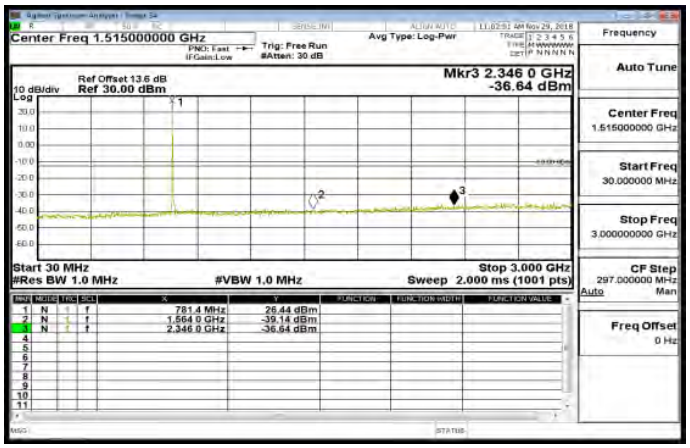
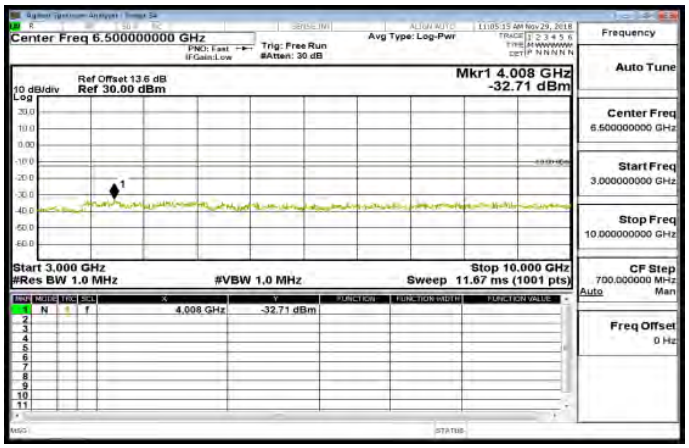


3GHz~10GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



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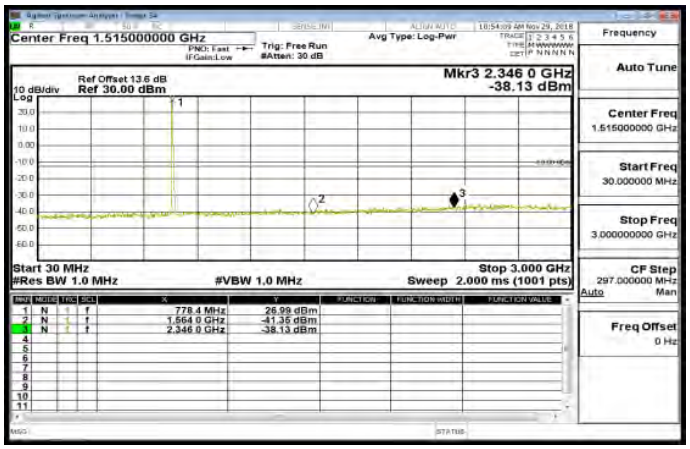
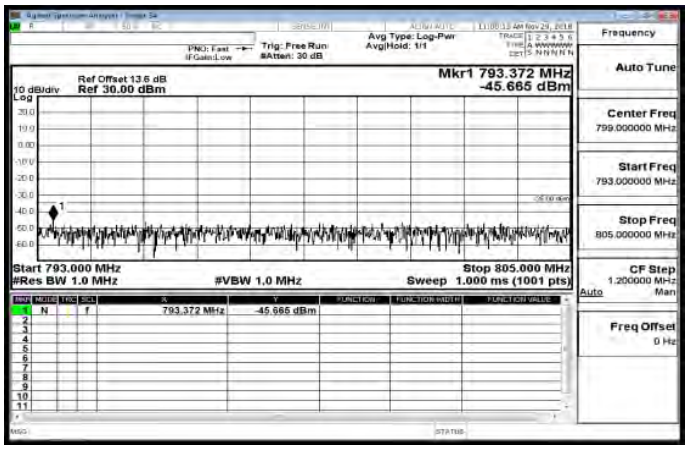
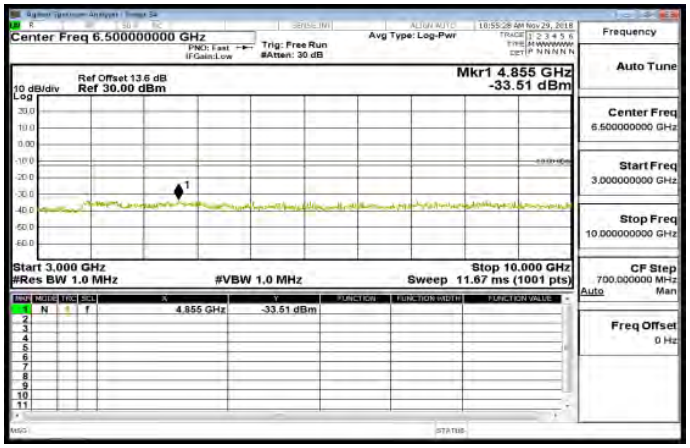
30MHz~3GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



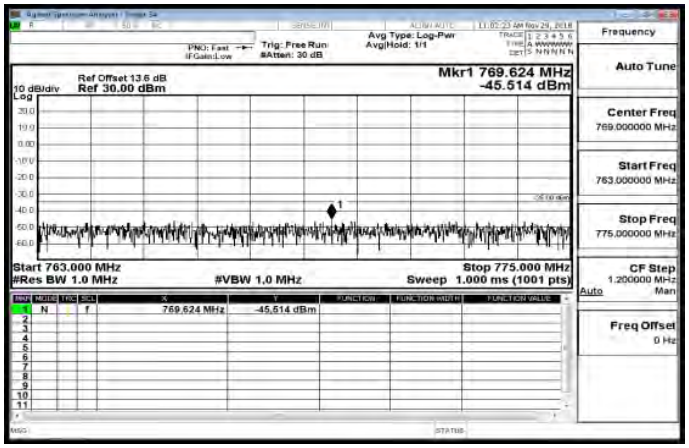
793MHz~806MHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



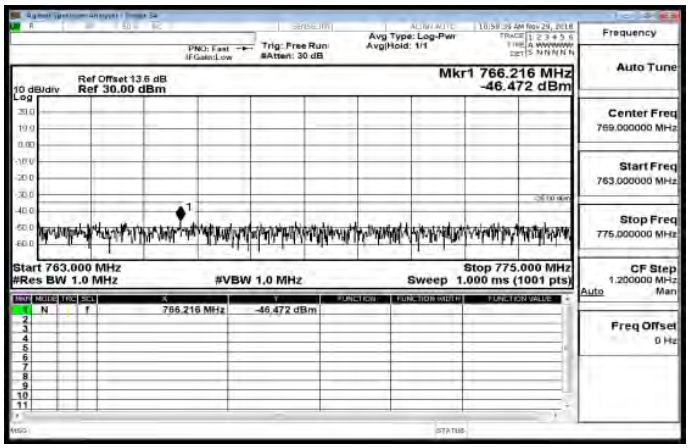
3GHz~10GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



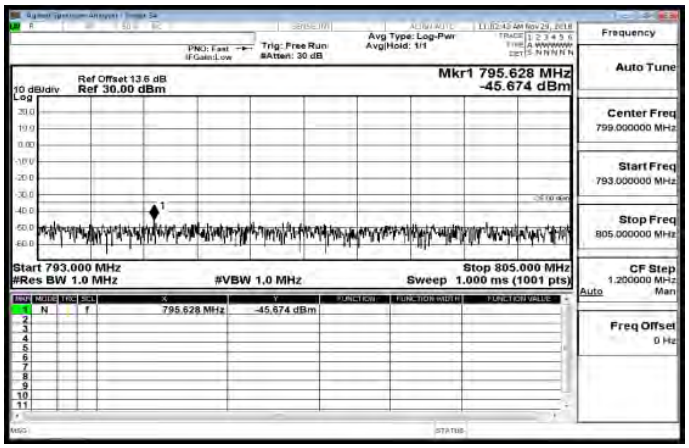
763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5



793MHz~806MHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



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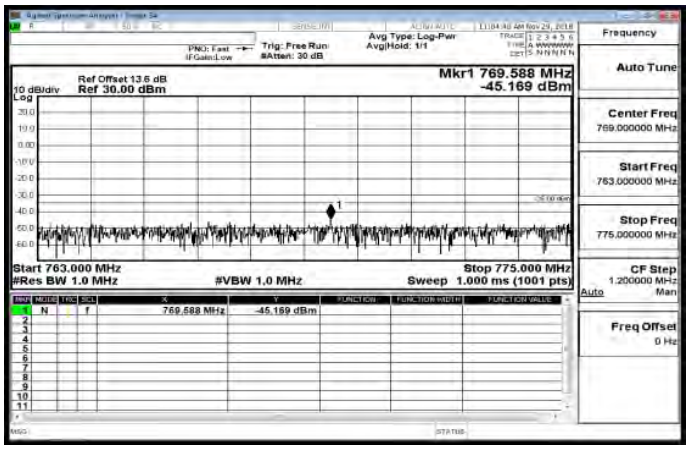
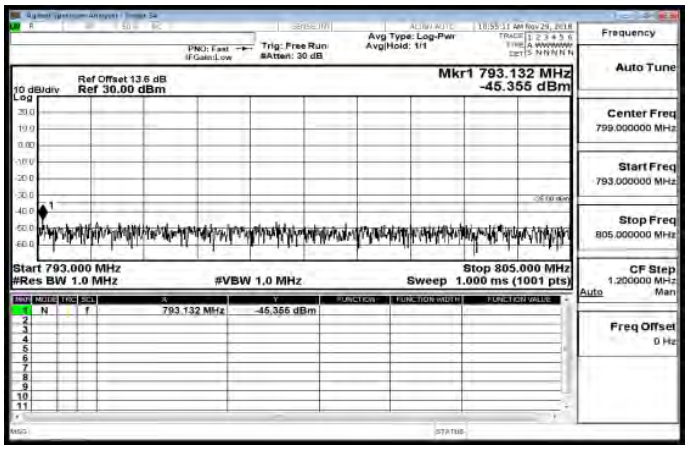
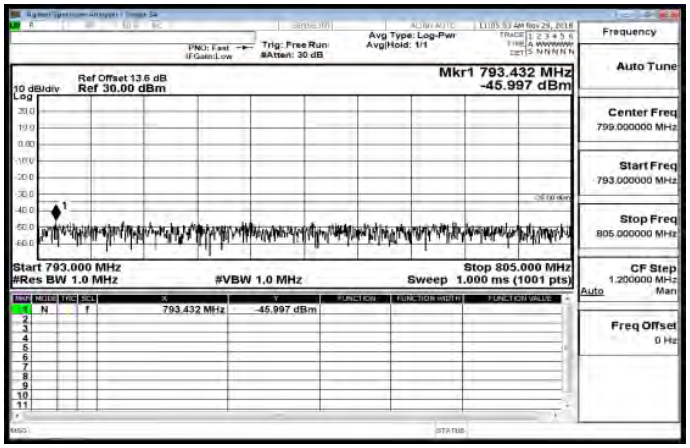
763.3MHz~775MHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



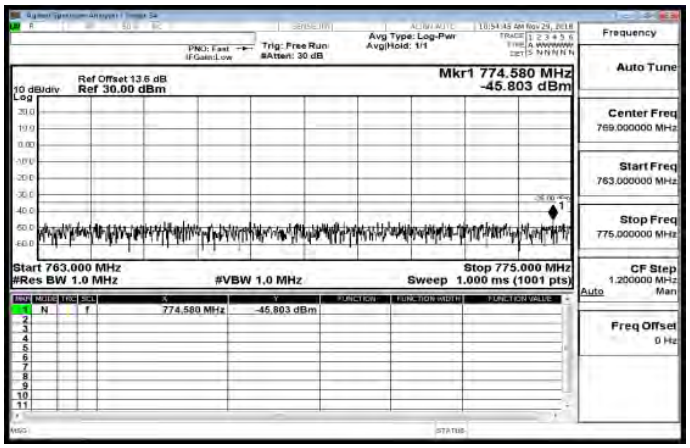
793MHz~806MHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



793MHz~806MHz Band13_5MHz_QPSK_1_0_HighCH23255-784.5



763.3MHz~775MHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



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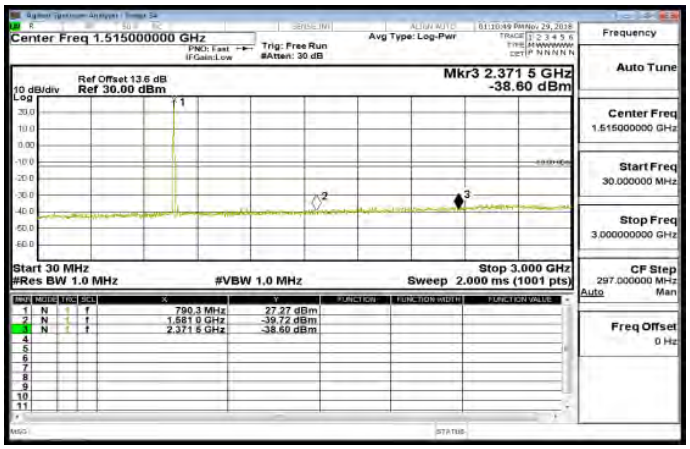
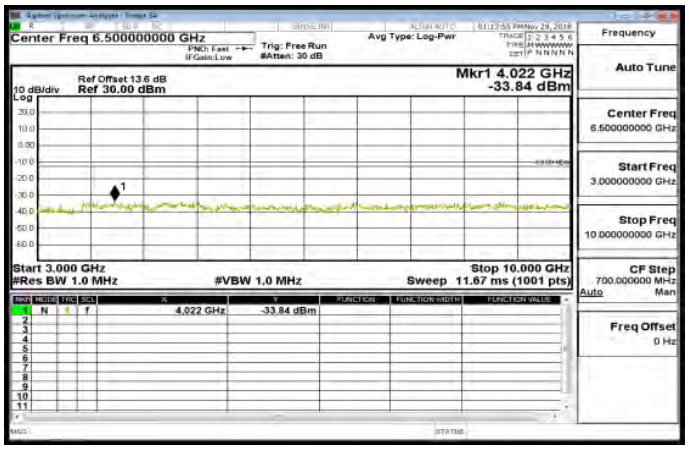
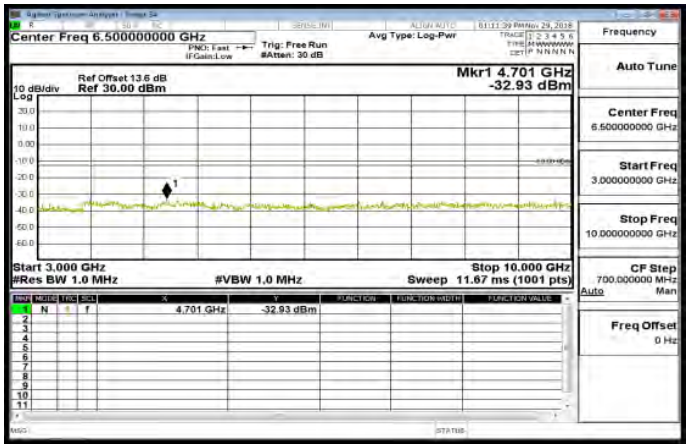
30MHz~3GHz_Band14_5MHz_QPSK_1_0_LowCH23305



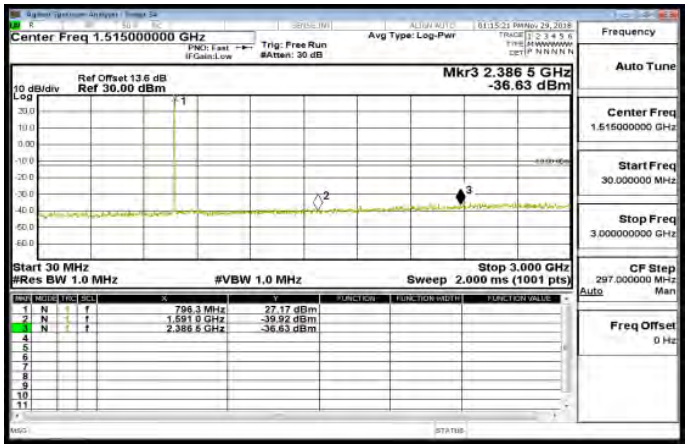
3GHz~10GHz_Band14_5MHz_QPSK_1_0_MidCH23330



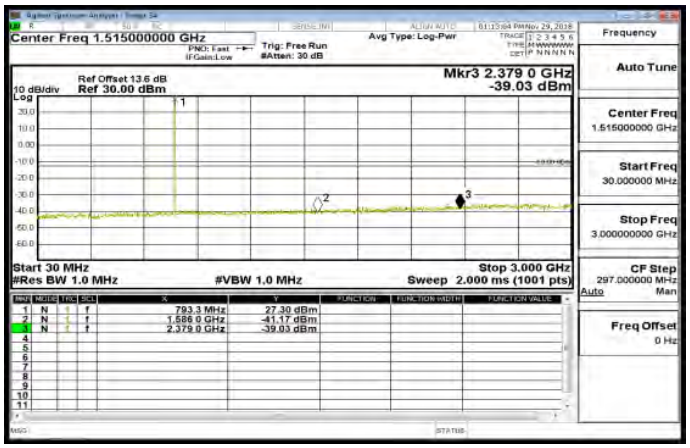
3GHz~10GHz_Band14_5MHz_QPSK_1_0_LowCH23305



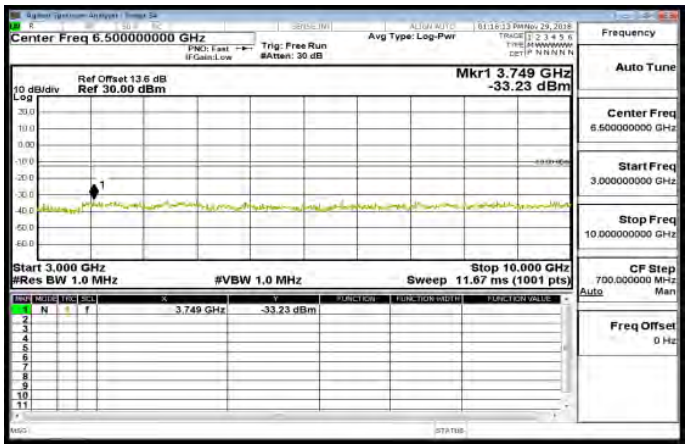
30MHz~3GHz_Band14_5MHz_QPSK_1_0_HighCH23355



30MHz~3GHz_Band14_5MHz_QPSK_1_0_MidCH23330



3GHz~10GHz_Band14_5MHz_QPSK_1_0_HighCH23355



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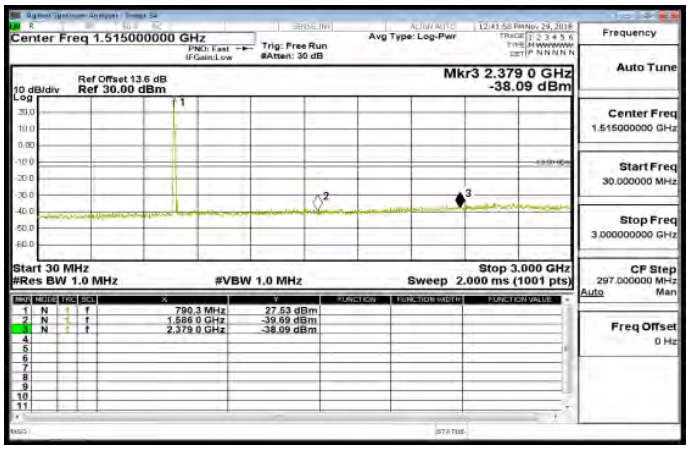
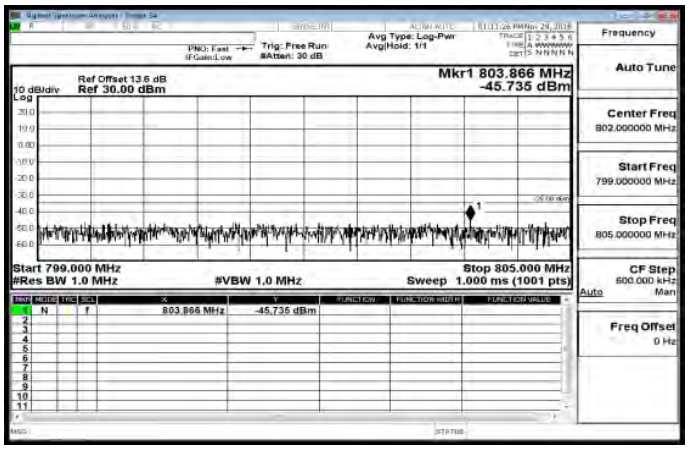
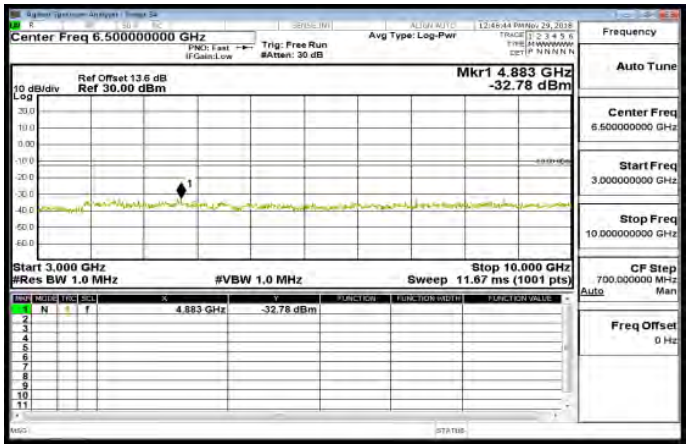
30MHz~3GHz_Band14_10MHz_QPSK_1_0_MidCH23330



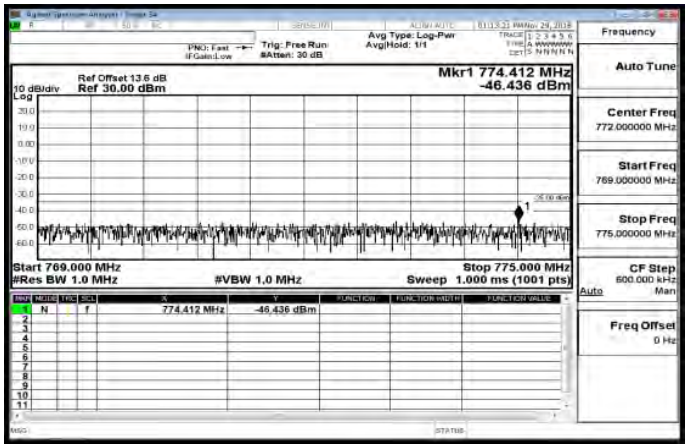
799MHz~805MHz_Band14_5MHz_QPSK_1_0_LowCH23305



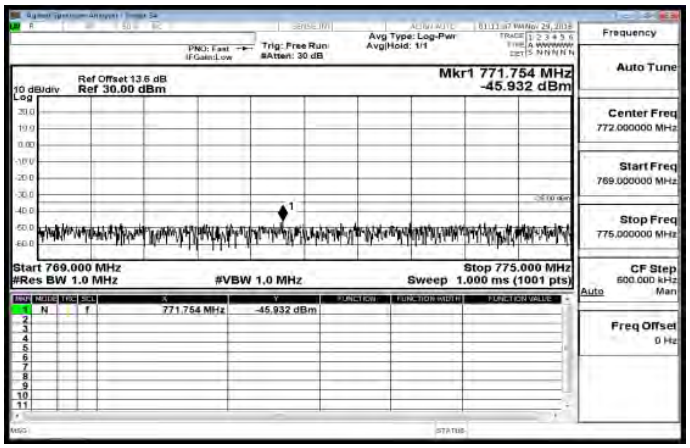
3GHz~10GHz_Band14_10MHz_QPSK_1_0_MidCH23330



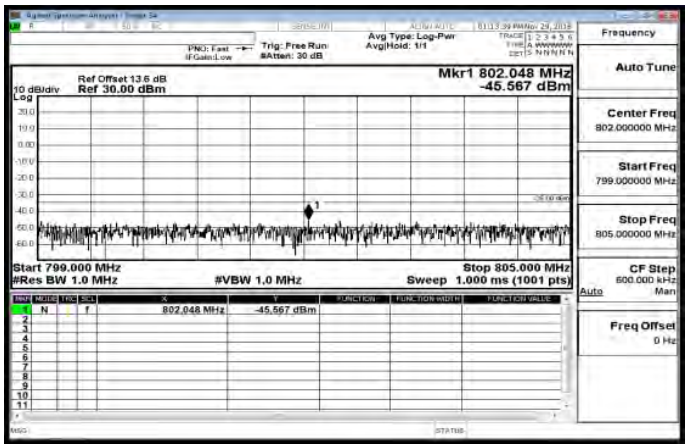
769MHz~775MHz_Band14_5MHz_QPSK_1_0_MidCH23330



769MHz~775MHz_Band14_5MHz_QPSK_1_0_LowCH23305



799MHz~805MHz_Band14_5MHz_QPSK_1_0_MidCH23330



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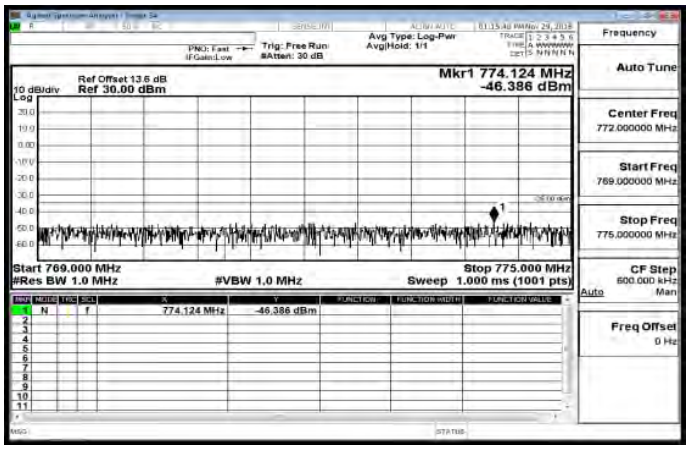
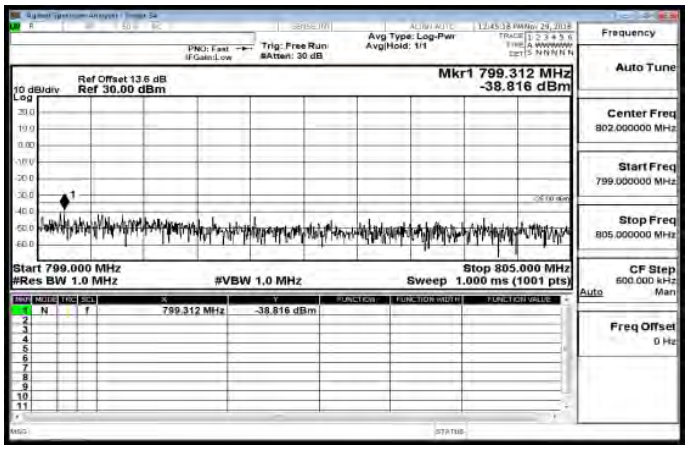
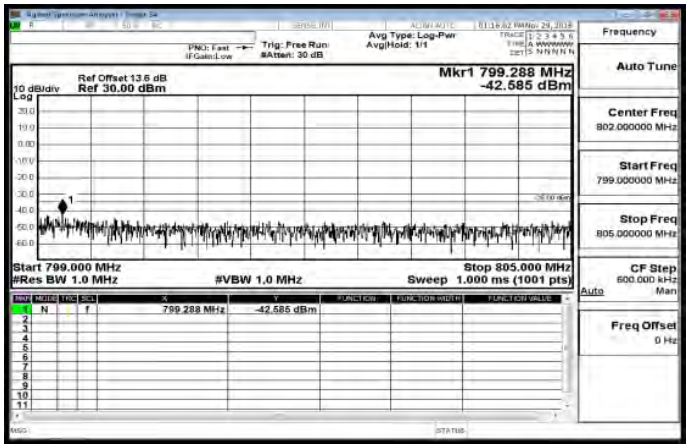
769MHz~775MHz_Band14_5MHz_QPSK_1_0_HighCH23355



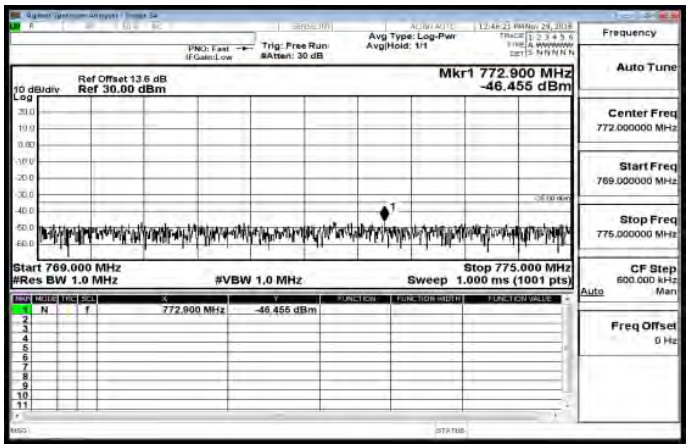
799MHz~805MHz_Band14_10MHz_QPSK_1_0_MidCH23330



799MHz~805MHz_Band14_5MHz_QPSK_1_0_HighCH23355



769MHz~775MHz Band14_10MHz_QPSK_1_0_MidCH23330



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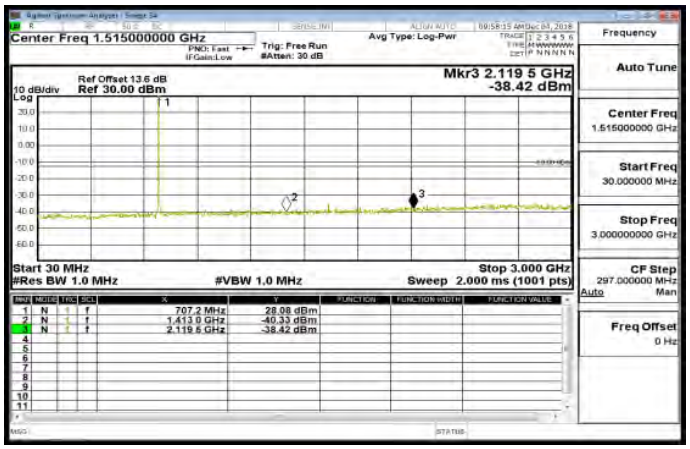
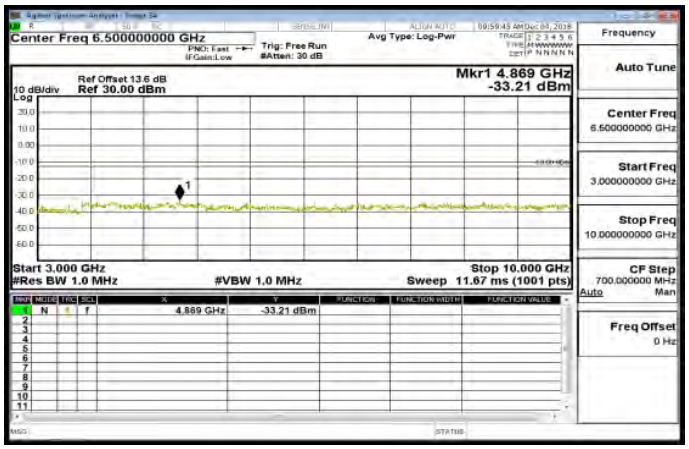
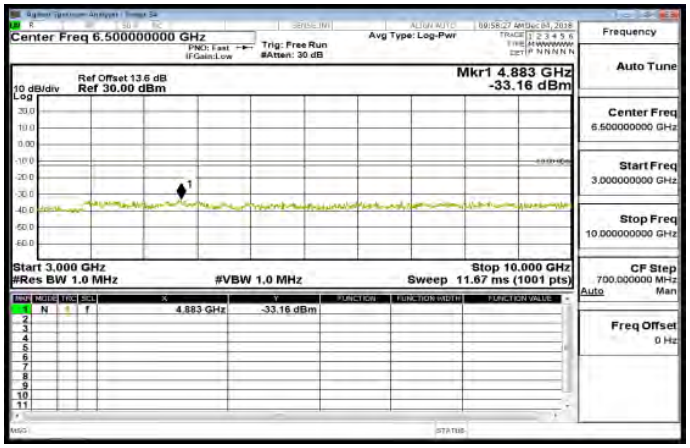
30MHz~3GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



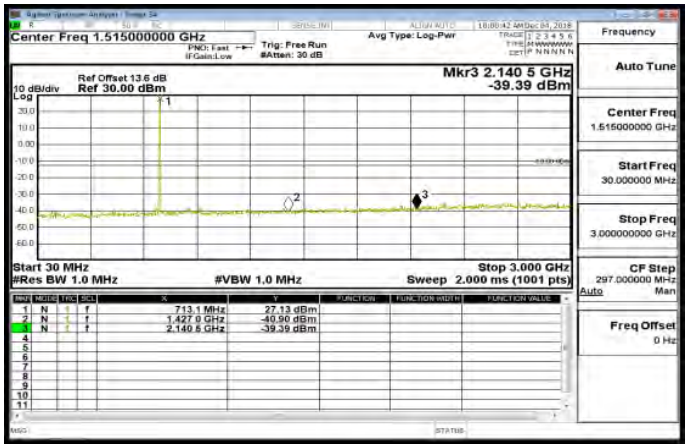
3GHz~10GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



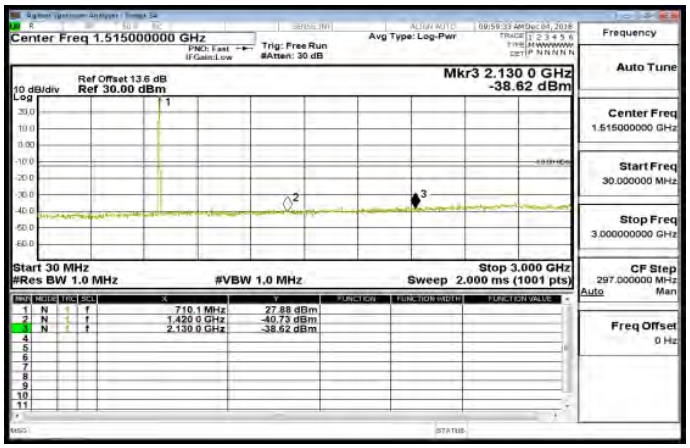
3GHz~10GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5



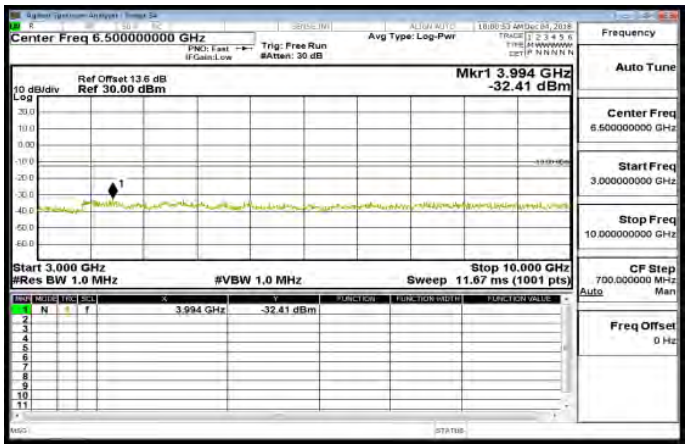
30MHz~3GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



30MHz~3GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



3GHz~10GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



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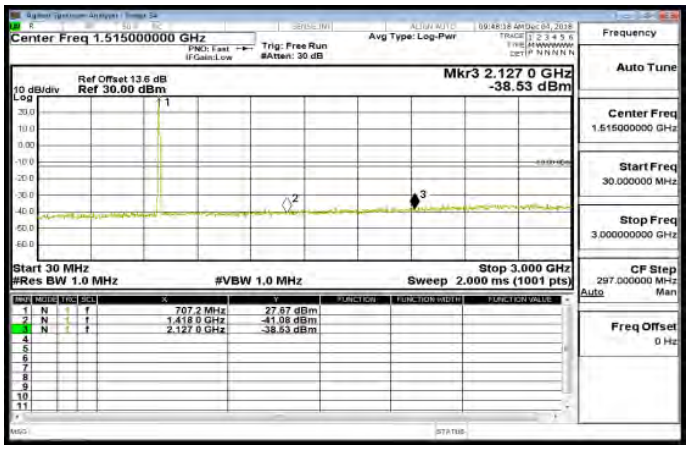
30MHz~3GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



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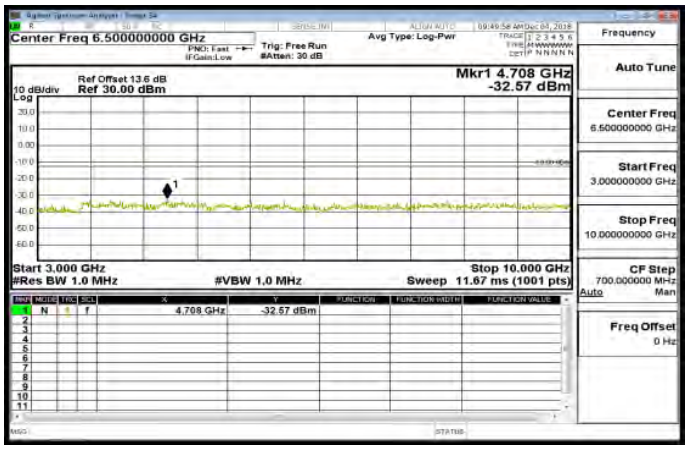

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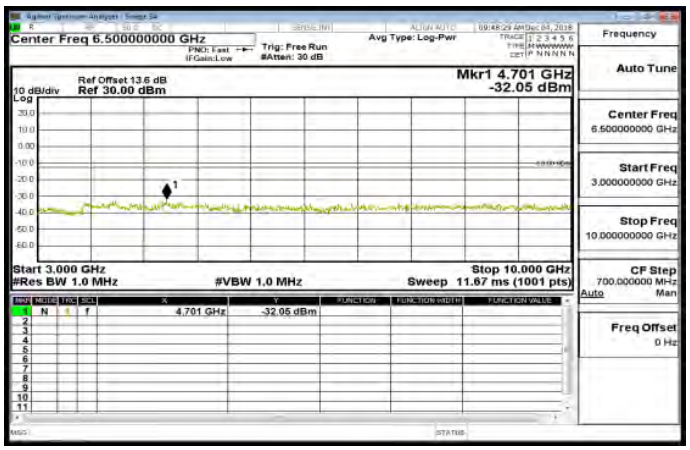

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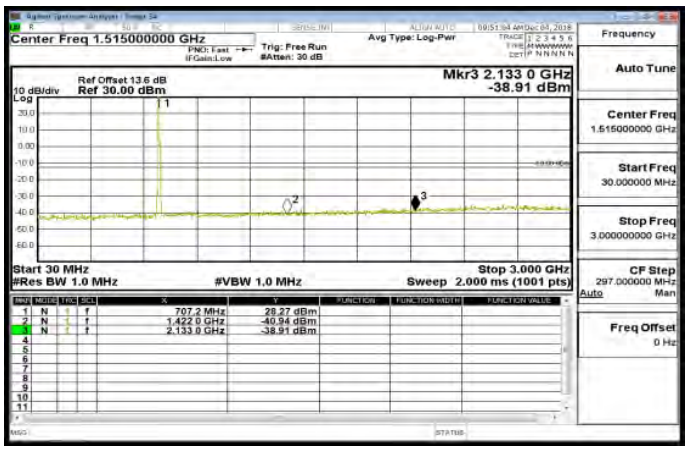
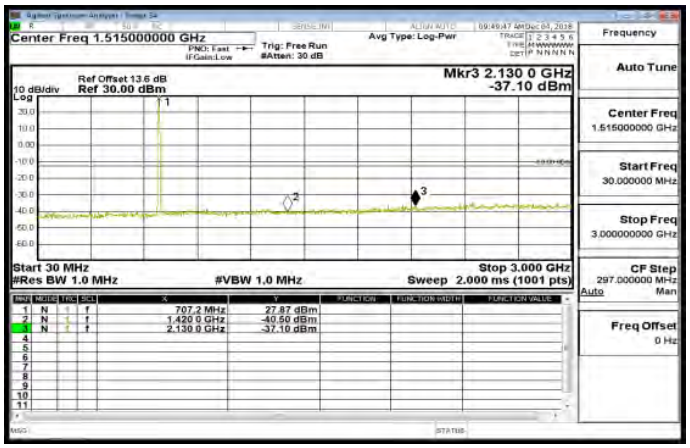
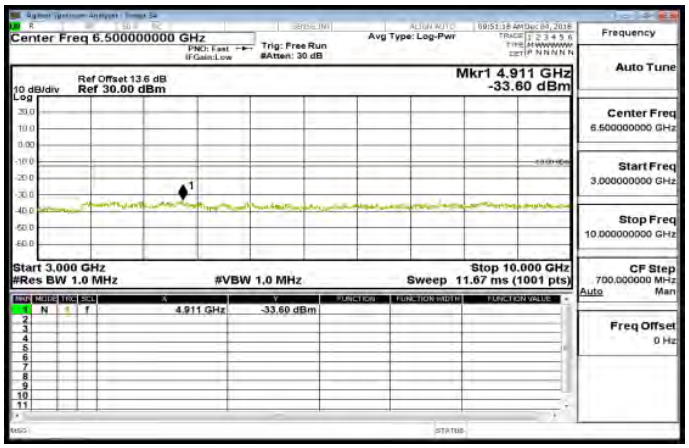


30MHz~3GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



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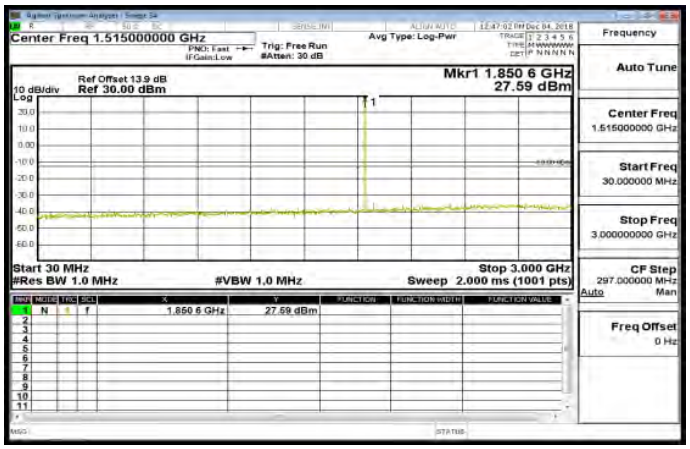
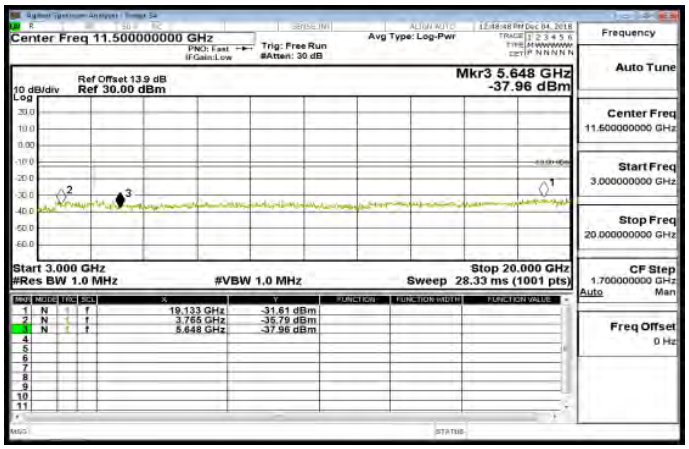
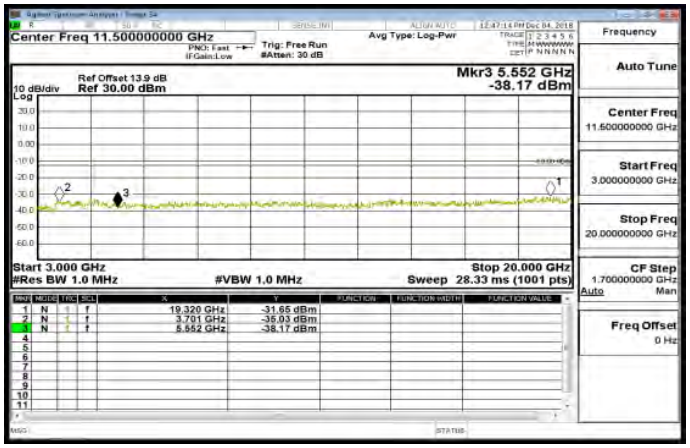
30MHz~3GHz_Band25_1_4MHz_QPSK_1_0_LowCH26047-1850.7



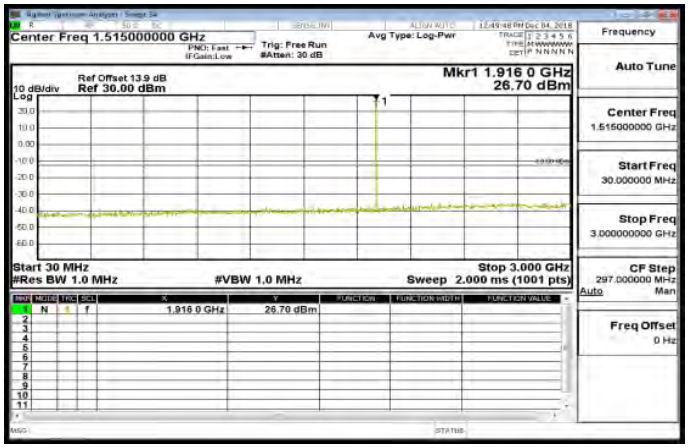
3GHz~10GHz_Band25_1_4MHz_QPSK_1_0_MidCH26365-1882.5



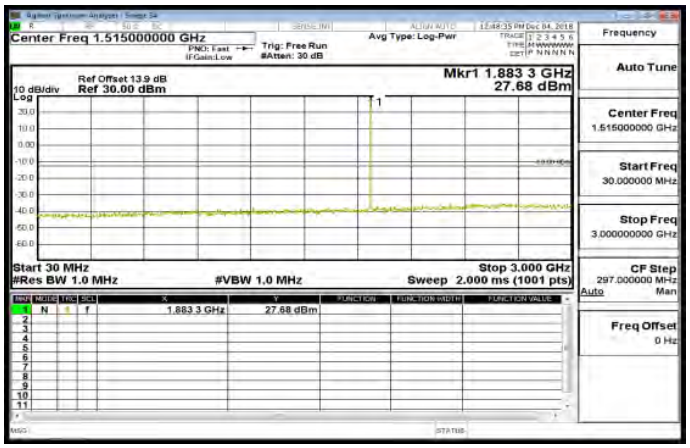
3GHz~10GHz_Band25_1_4MHz_QPSK_1_0_LowCH26047-1850.7



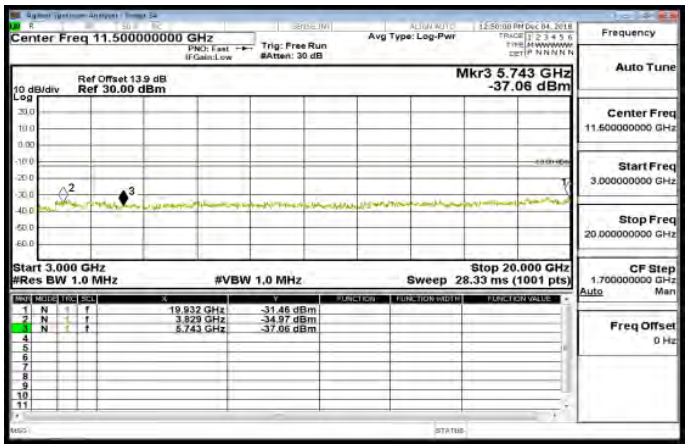
30MHz~3GHz_Band25_1_4MHz_QPSK_1_0_HighCH26683-1914.3



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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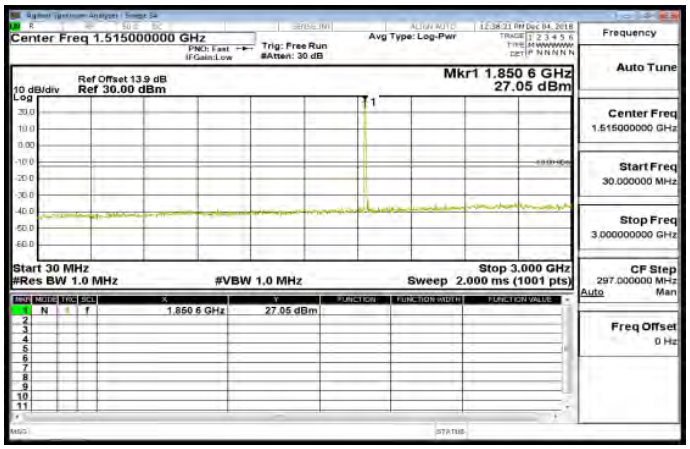
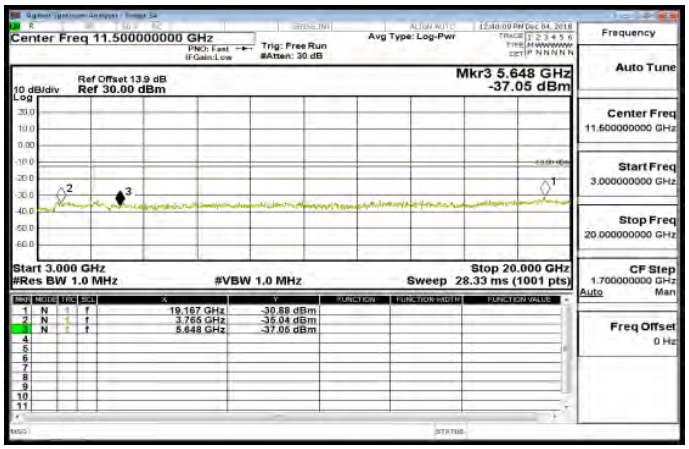
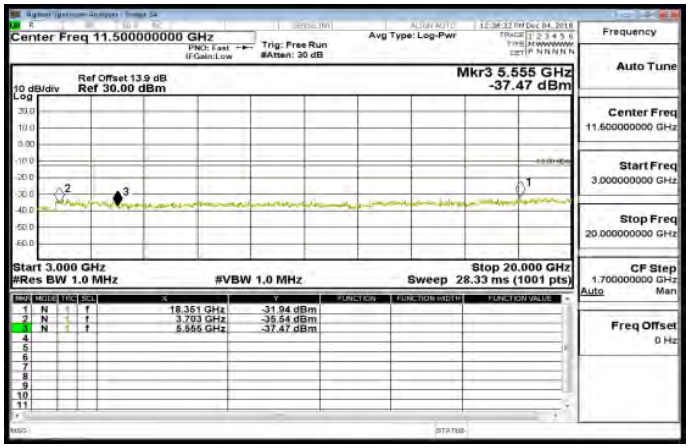
30MHz~3GHz_Band25_3MHz_QPSK_1_0_LowCH26055-1851.5



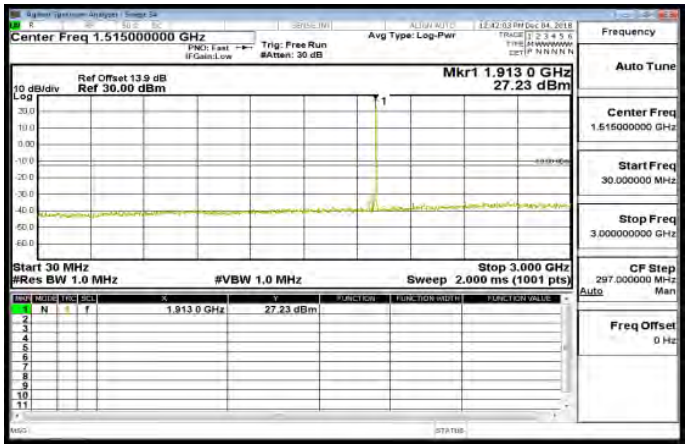
3GHz~10GHz_Band25_3MHz_QPSK_1_0_MidCH26365-1882.5



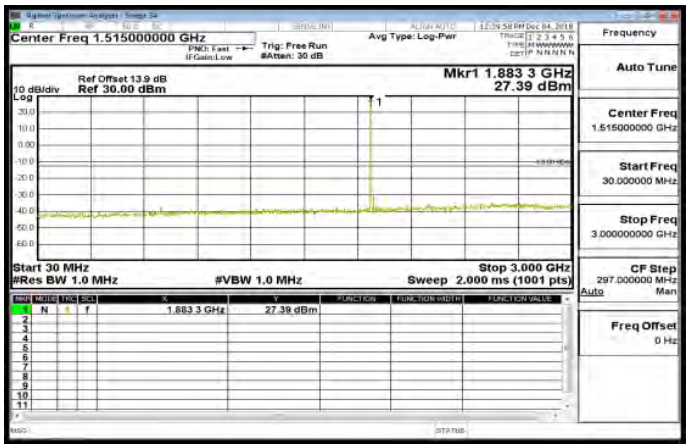
3GHz~10GHz_Band25_3MHz_QPSK_1_0_LowCH26055-1851.5



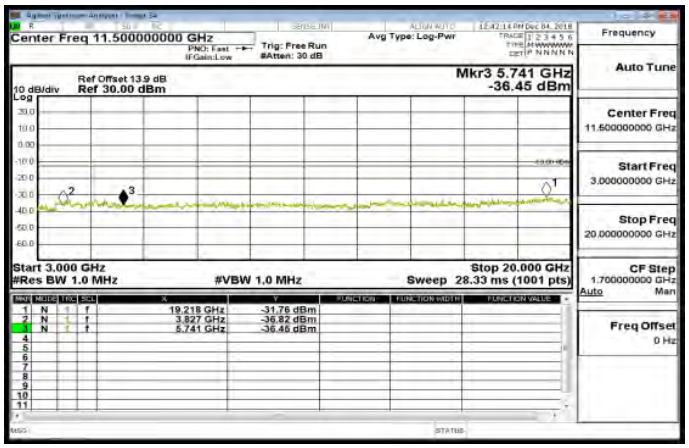
30MHz~3GHz_Band25_3MHz_QPSK_1_0_HighCH26675-1913.5



30MHz~3GHz_Band25_3MHz_QPSK_1_0_MidCH26365-1882.5



3GHz~10GHz_Band25_3MHz_QPSK_1_0_HighCH26675-1913.5



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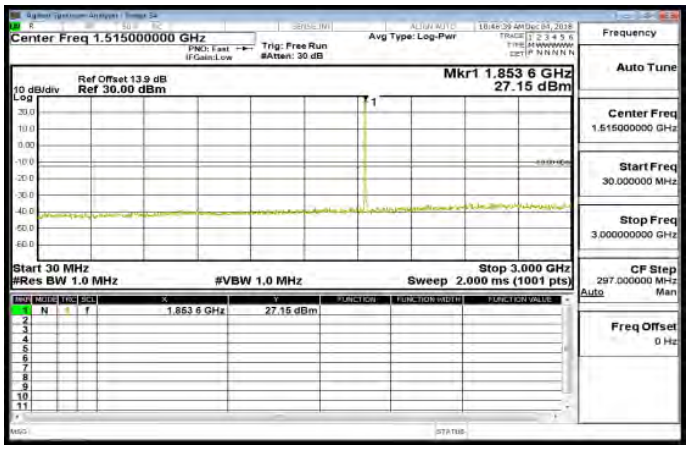
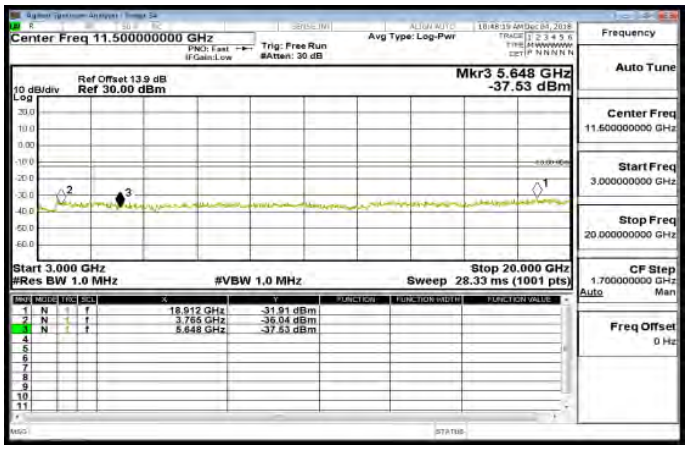
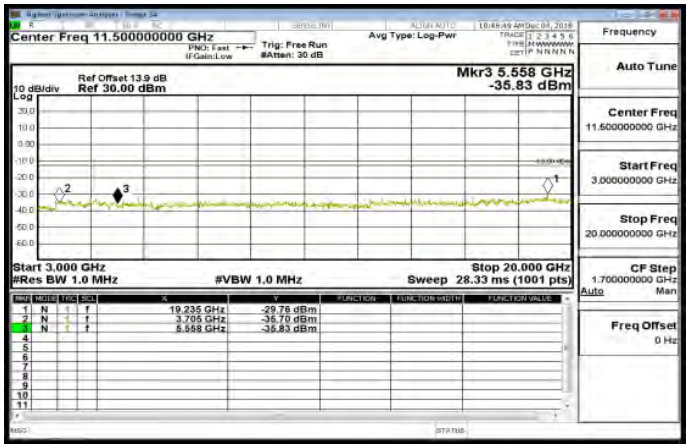
30MHz~3GHz_Band25_5MHz_QPSK_1_0_LowCH26065-1852.5



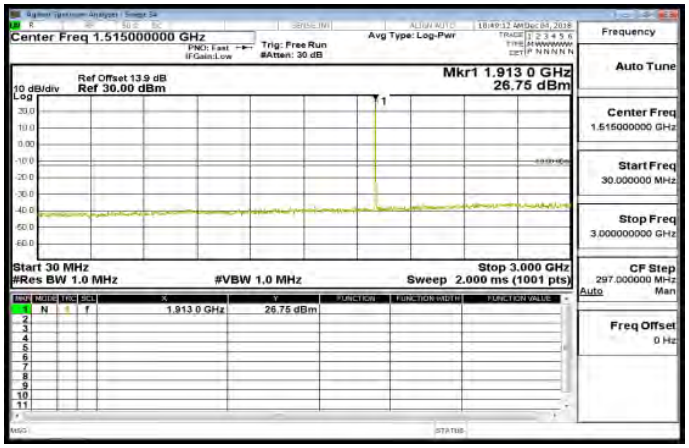
3GHz~10GHz_Band25_5MHz_QPSK_1_0_MidCH26365-1882.5



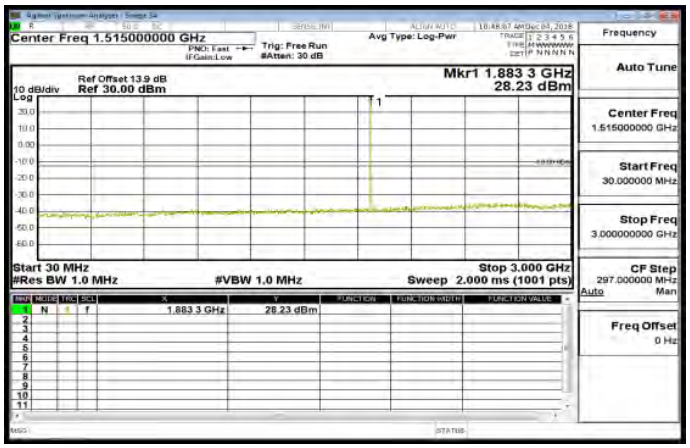
3GHz~10GHz_Band25_5MHz_QPSK_1_0_LowCH26065-1852.5



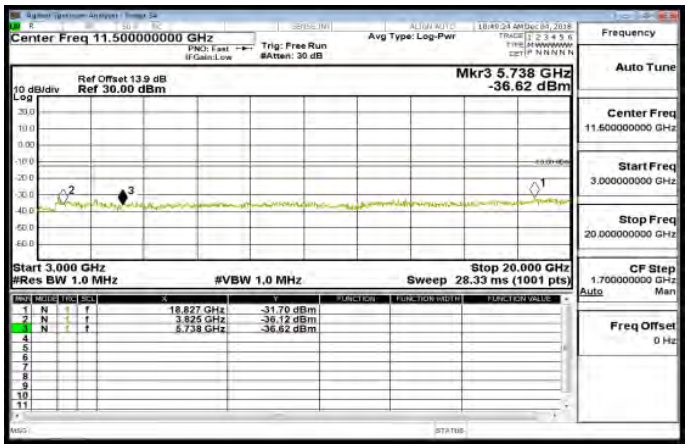
30MHz~3GHz_Band25_5MHz_QPSK_1_0_HighCH26665-1912.5



30MHz~3GHz_Band25_5MHz_QPSK_1_0_MidCH26365-1882.5



3GHz~10GHz_Band25_5MHz_QPSK_1_0_HighCH26665-1912.5



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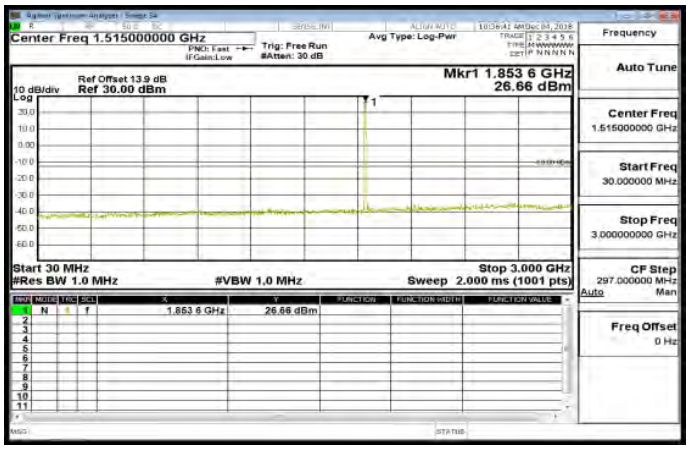
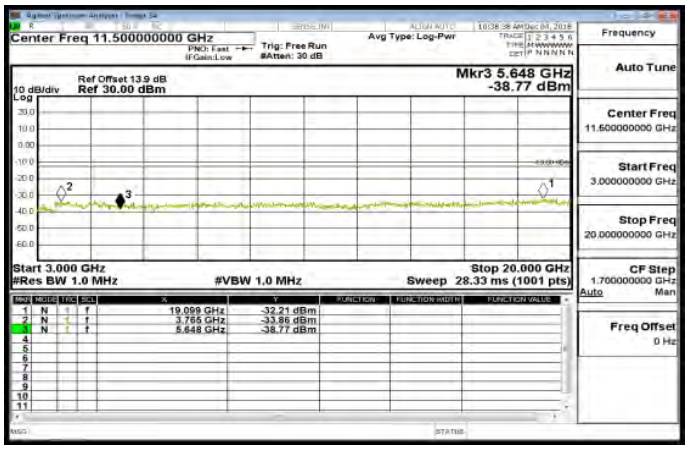
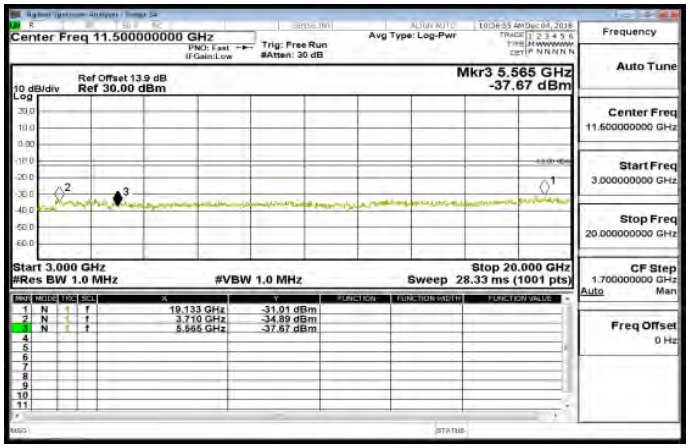
30MHz~3GHz_Band25_10MHz_QPSK_1_0_LowCH26090-1855



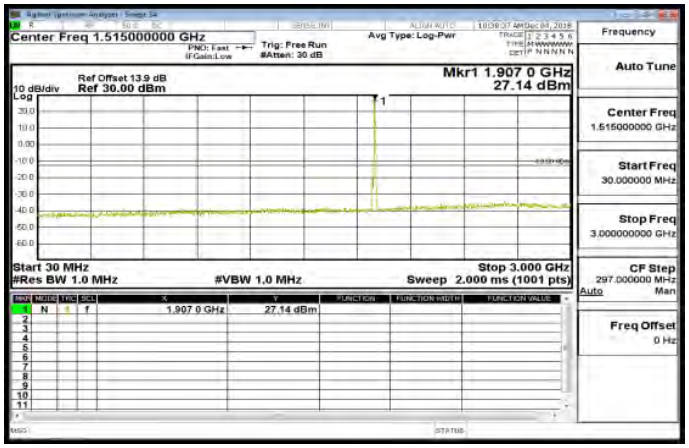
3GHz~10GHz_Band25_10MHz_QPSK_1_0_MidCH26365-1882.5



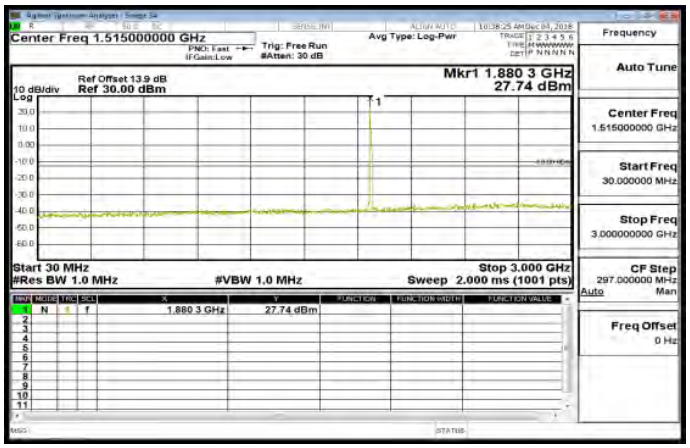
3GHz~10GHz_Band25_10MHz_QPSK_1_0_LowCH26090-1855



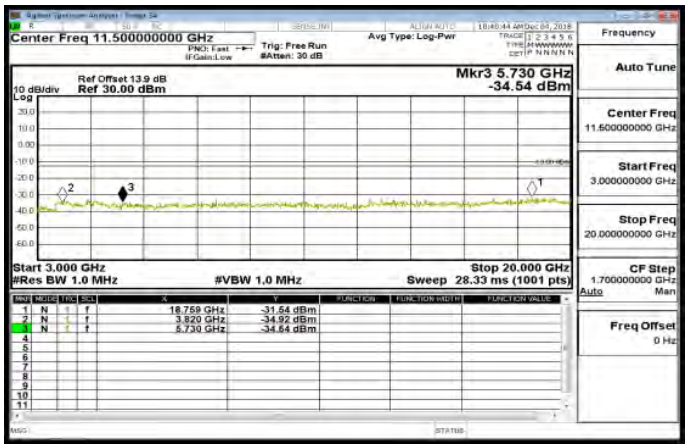
30MHz~3GHz_Band25_10MHz_QPSK_1_0_HighCH26640-1910



30MHz~3GHz_Band25_10MHz_QPSK_1_0_MidCH26365-1882.5



3GHz~10GHz_Band25_10MHz_QPSK_1_0_HighCH26640-1910



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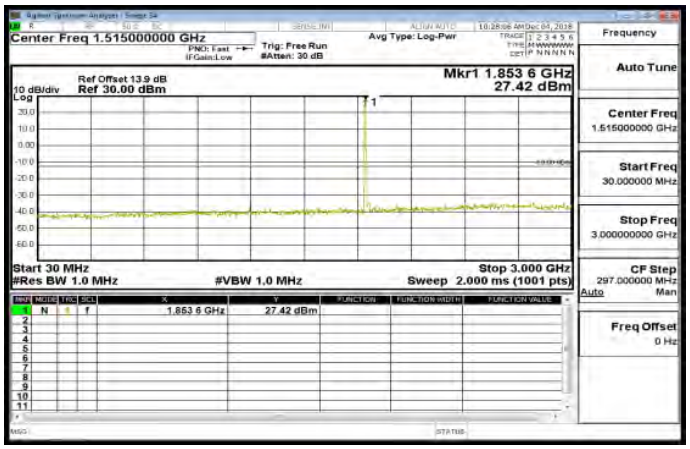
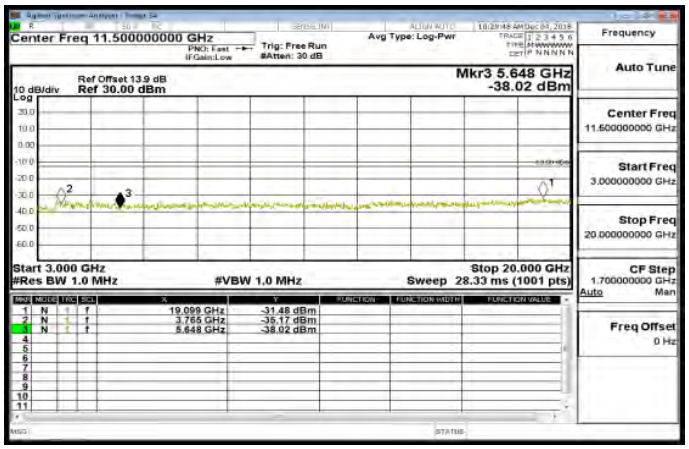
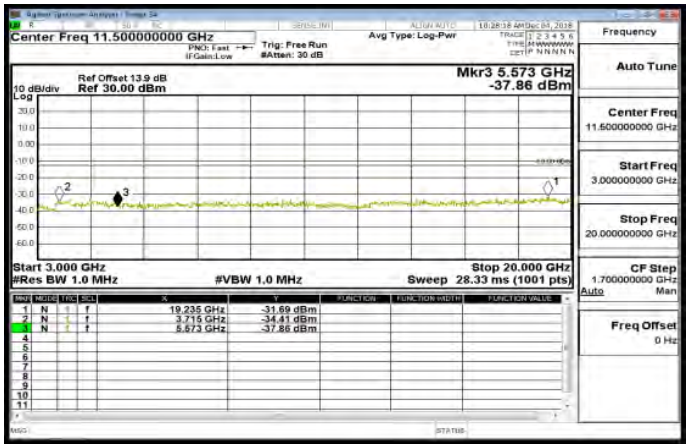
30MHz~3GHz_Band25_15MHz_QPSK_1_0_LowCH26115-1857.5



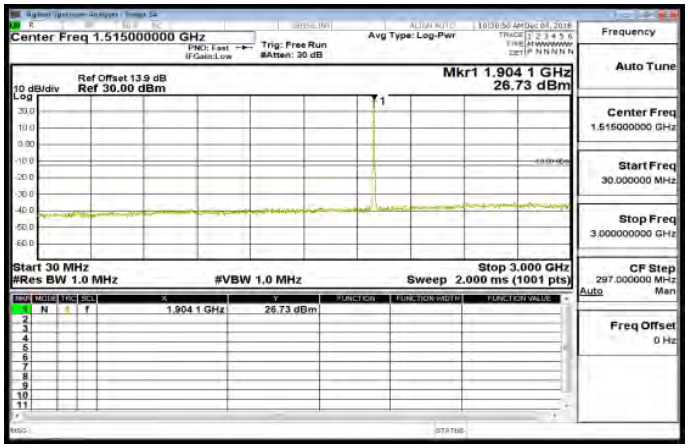
3GHz~10GHz_Band25_15MHz_QPSK_1_0_MidCH26365-1882.5



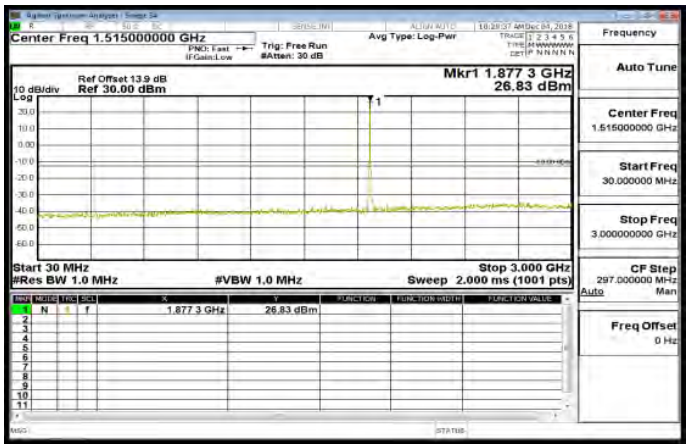
3GHz~10GHz_Band25_15MHz_QPSK_1_0_LowCH26115-1857.5



30MHz~3GHz_Band25_15MHz_QPSK_1_0_HighCH26615-1907.5



30MHz~3GHz_Band25_15MHz_QPSK_1_0_MidCH26365-1882.5



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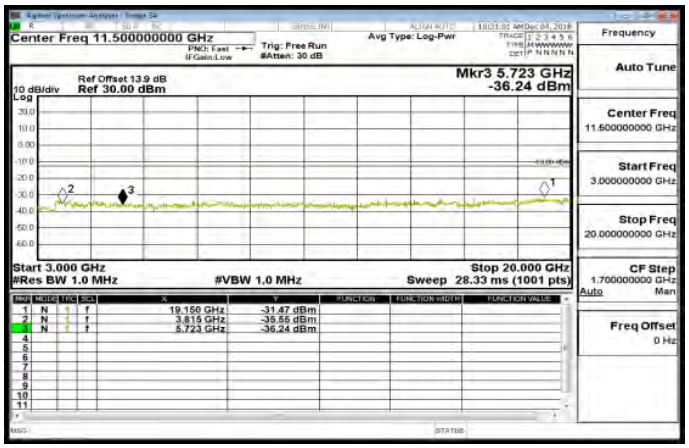

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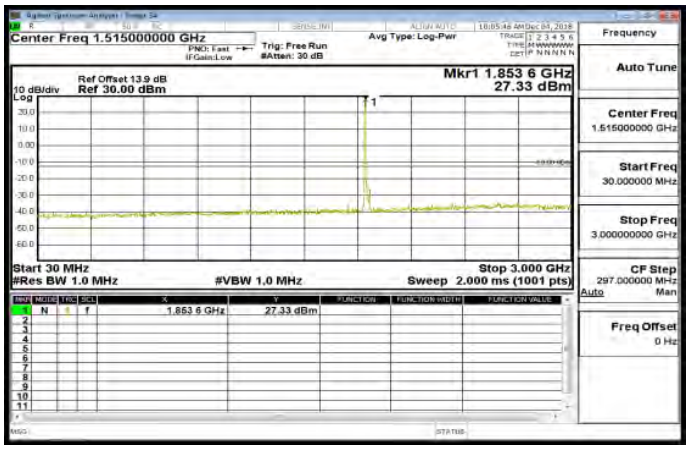
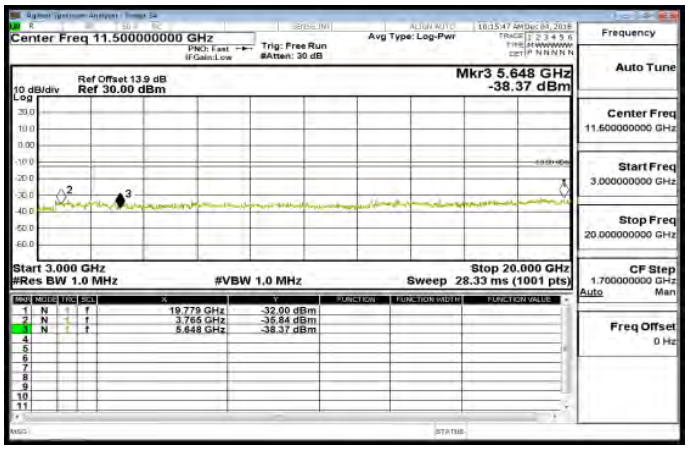
30MHz~3GHz_Band25_20MHz_QPSK_1_0_LowCH26140-1860



3GHz~10GHz_Band25_20MHz_QPSK_1_0_MidCH26365-1882.5



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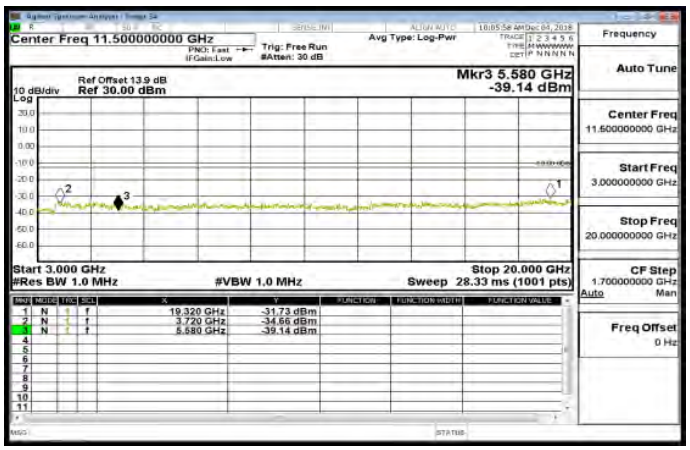
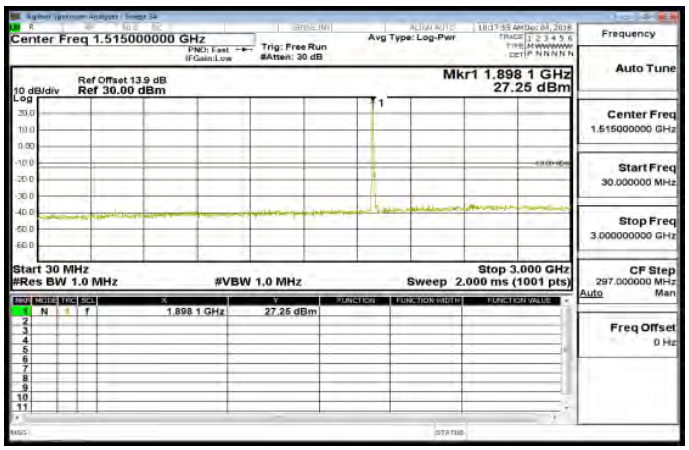
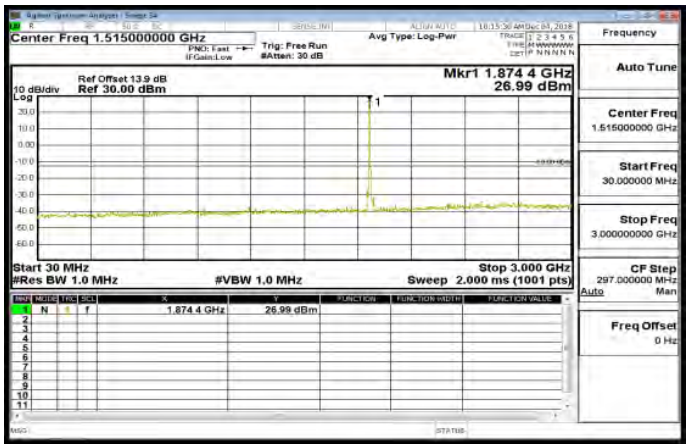


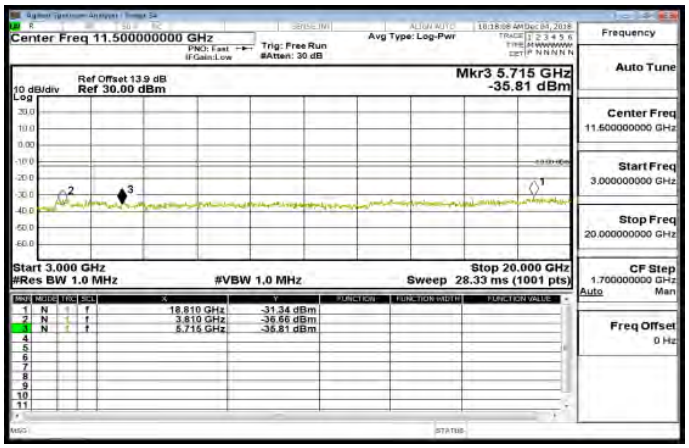
30MHz~3GHz_Band25_20MHz_QPSK_1_0_HighCH26590-1905



30MHz~3GHz_Band25_20MHz_QPSK_1_0_MidCH26365-1882.5



3GHz~10GHz_Band25_20MHz_QPSK_1_0_HighCH26590-1905



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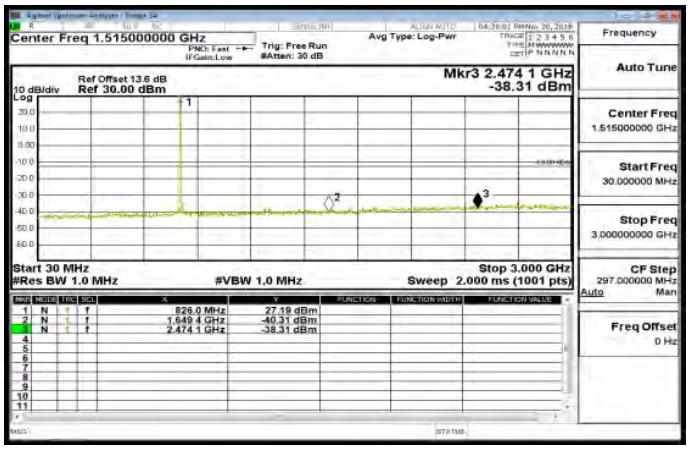
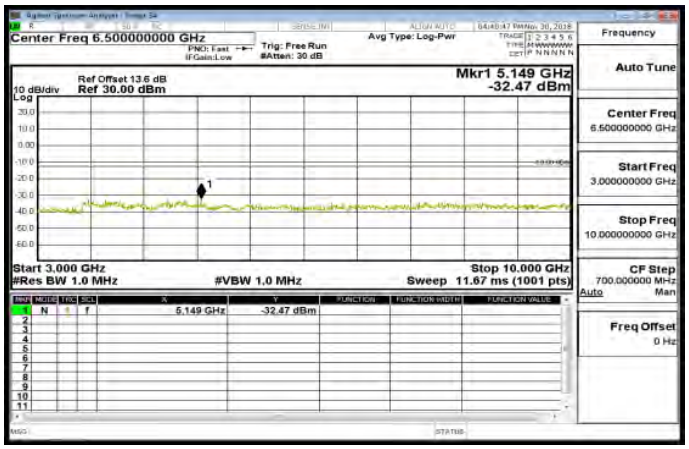
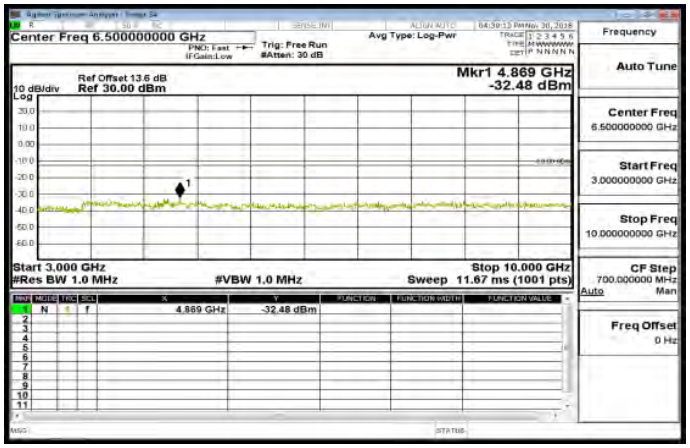
30MHz~3GHz_Band26_1_4MHz_QPSK_1_0_LowCH26797-824.7



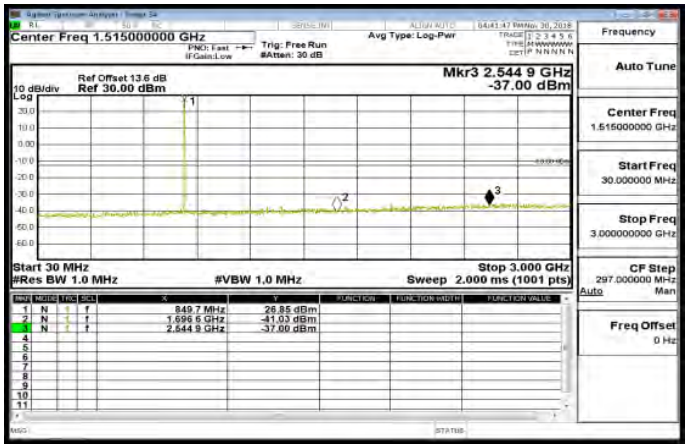
3GHz~10GHz_Band26_1_4MHz_QPSK_1_0_MidCH26915-836.5



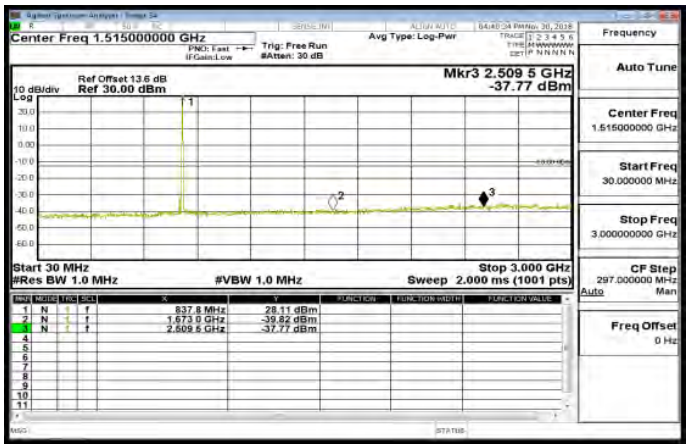
3GHz~10GHz_Band26_1_4MHz_QPSK_1_0_LowCH26797-824.7



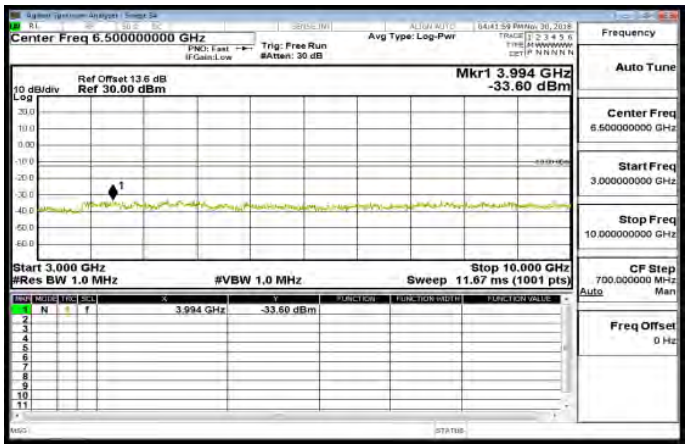
30MHz~3GHz_Band26_1_4MHz_QPSK_1_0_HighCH27033-848.3



30MHz~3GHz_Band26_1_4MHz_QPSK_1_0_MidCH26915-836.5



3GHz~10GHz_Band26_1_4MHz_QPSK_1_0_HighCH27033-848.3



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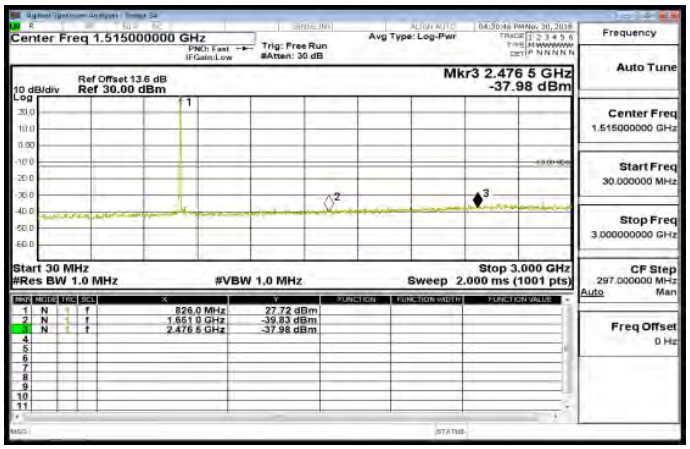
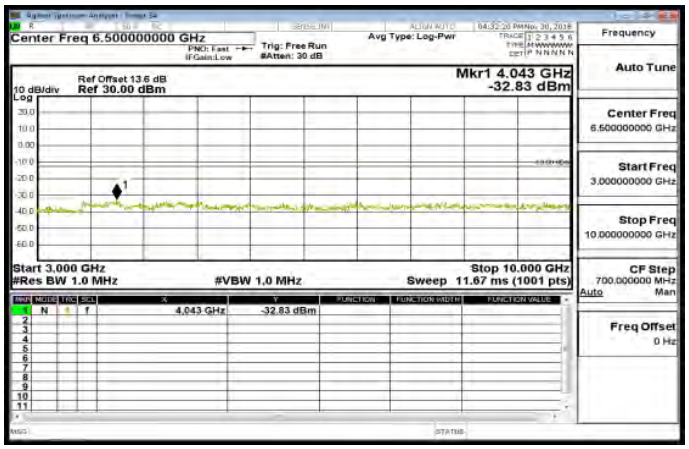
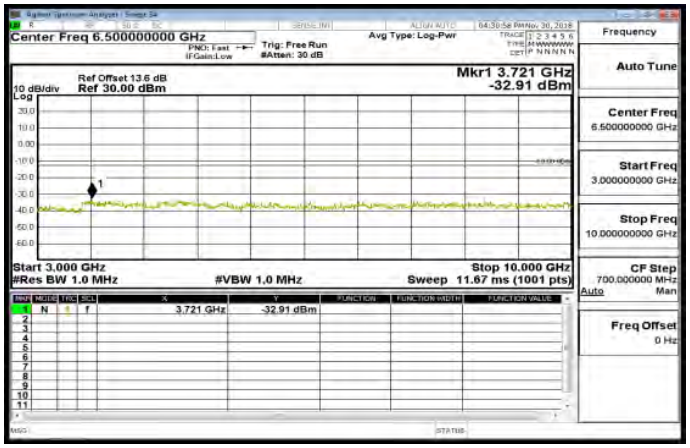
30MHz~3GHz_Band26_3MHz_QPSK_1_0_LowCH26805-825.5



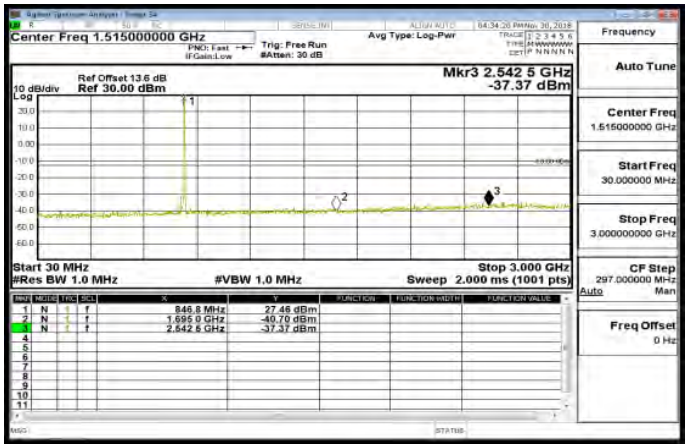
3GHz~10GHz_Band26_3MHz_QPSK_1_0_MidCH26915-836.5



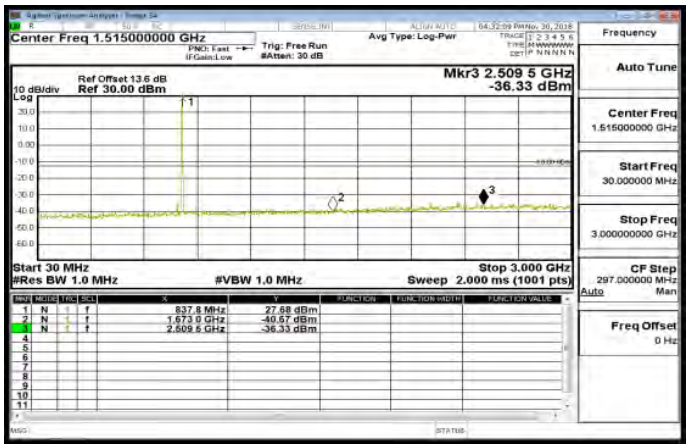
3GHz~10GHz_Band26_3MHz_QPSK_1_0_LowCH26805-825.5



30MHz~3GHz_Band26_3MHz_QPSK_1_0_HighCH27025-847.5



30MHz~3GHz_Band26_3MHz_QPSK_1_0_MidCH26915-836.5



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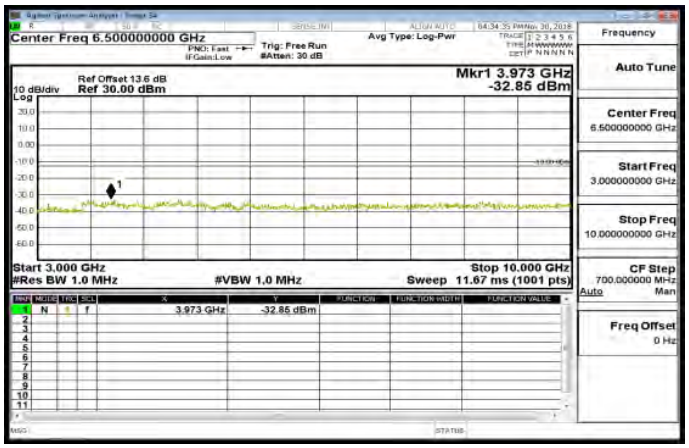

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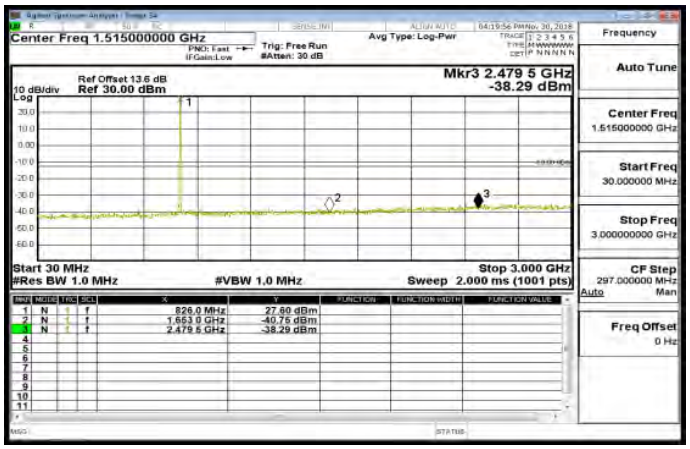
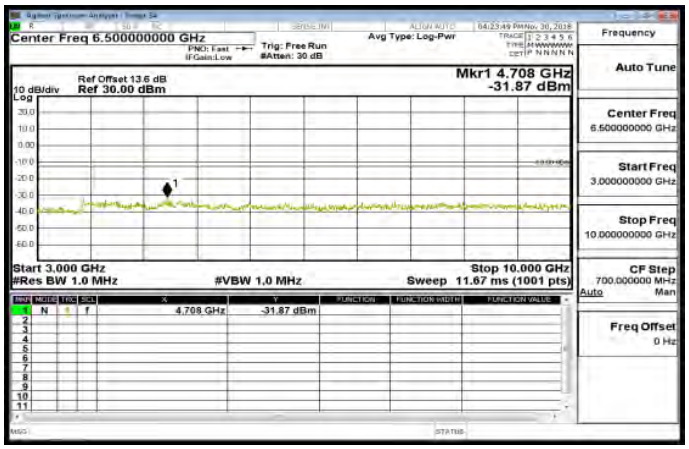
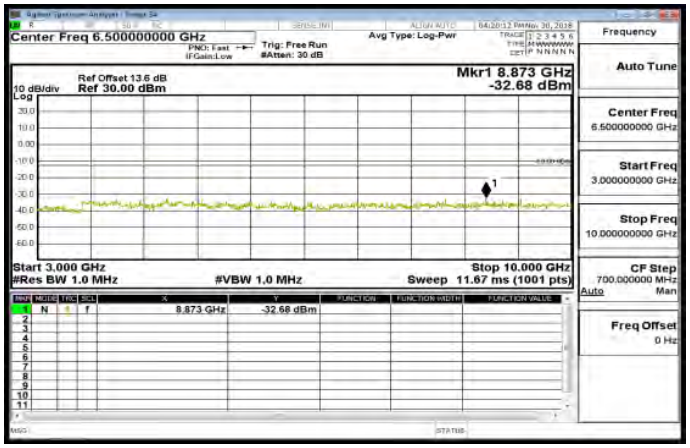
30MHz~3GHz_Band26_5MHz_QPSK_1_0_LowCH26815-826.5



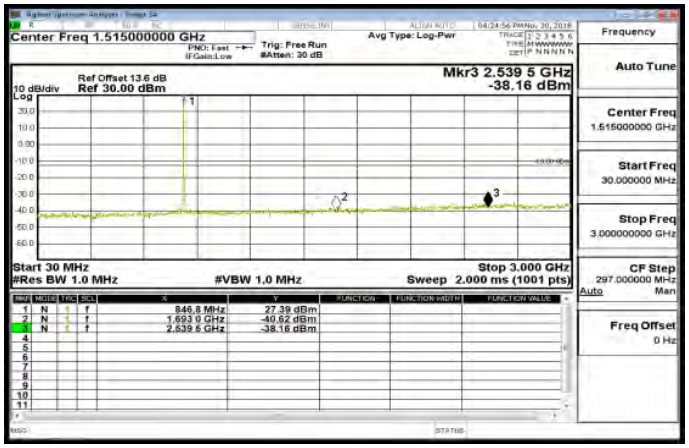
3GHz~10GHz_Band26_5MHz_QPSK_1_0_MidCH26915-836.5



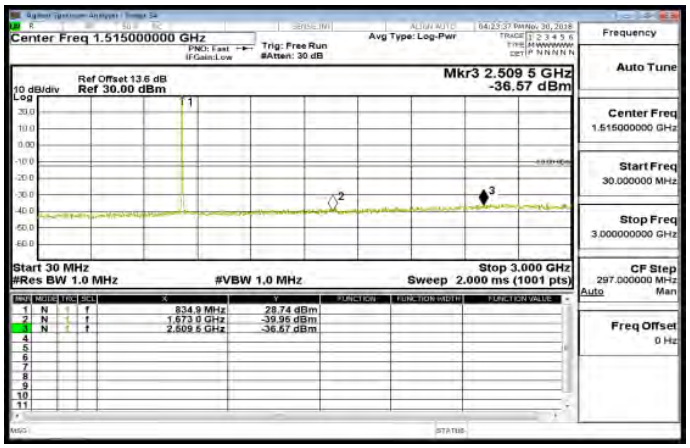
3GHz~10GHz_Band26_5MHz_QPSK_1_0_LowCH26815-826.5



30MHz~3GHz_Band26_5MHz_QPSK_1_0_HighCH27015-846.5



30MHz~3GHz_Band26_5MHz_QPSK_1_0_MidCH26915-836.5



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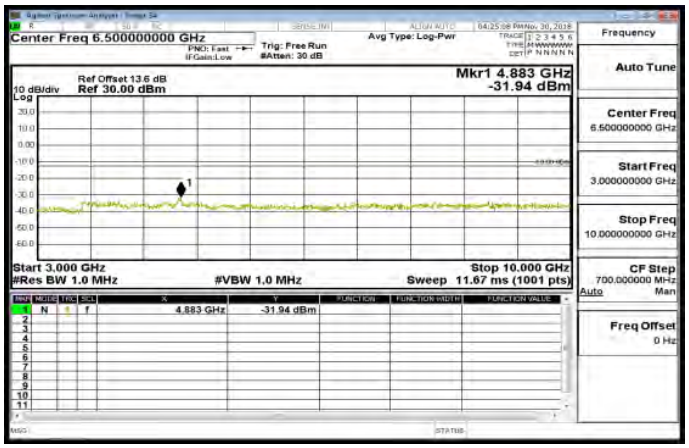

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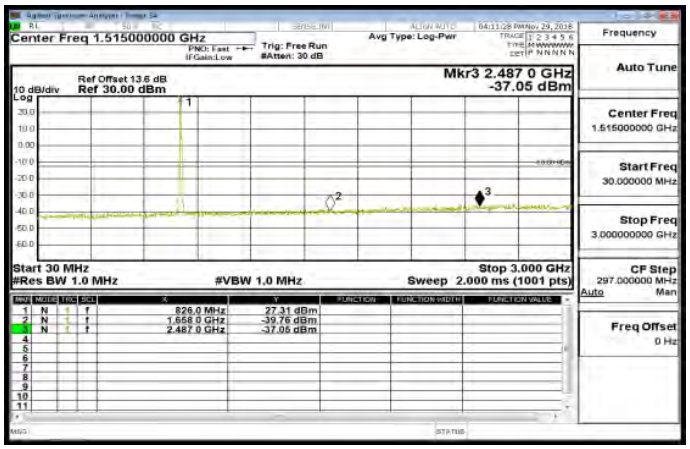
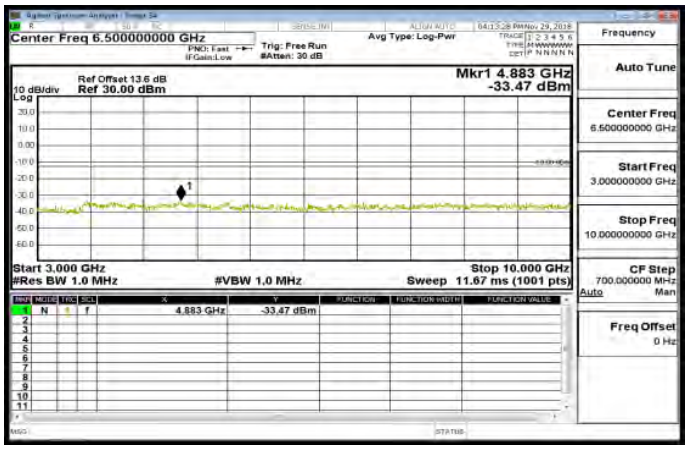
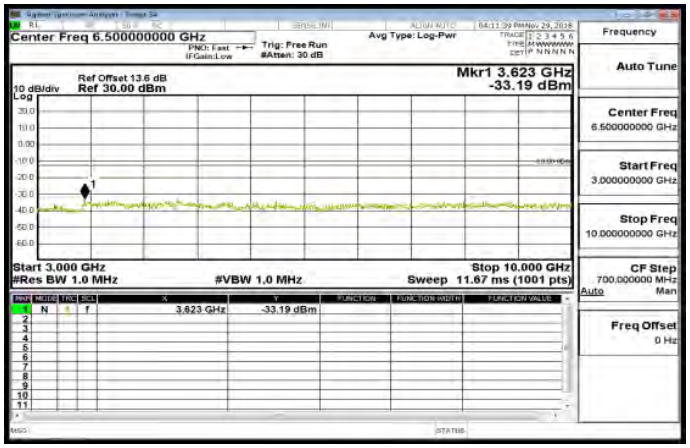
30MHz~3GHz_Band26_10MHz_QPSK_1_0_LowCH26840



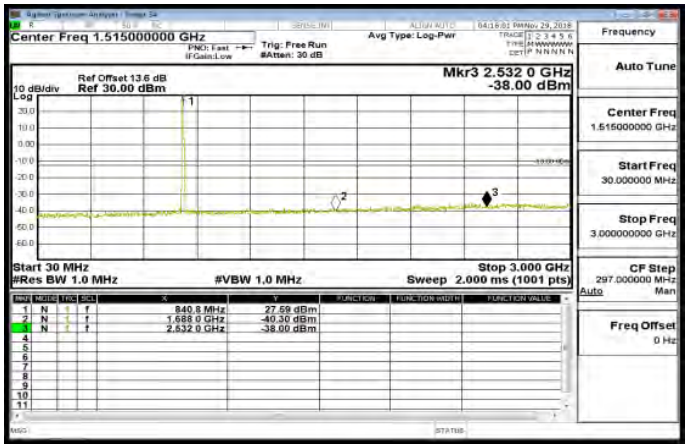
3GHz~10GHz_Band26_10MHz_QPSK_1_0_MidCH26915



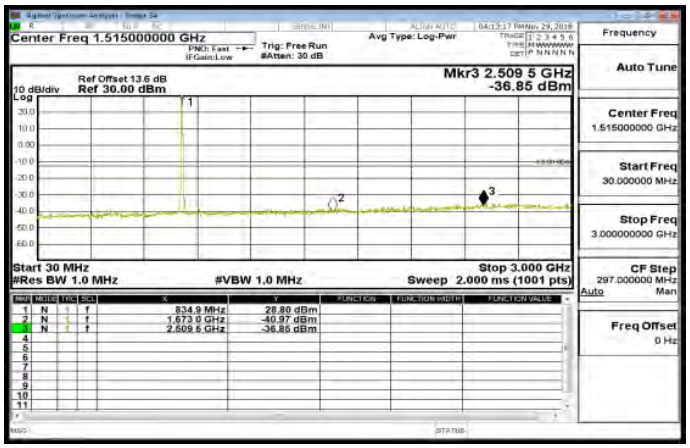
3GHz~10GHz_Band26_10MHz_QPSK_1_0_LowCH26840



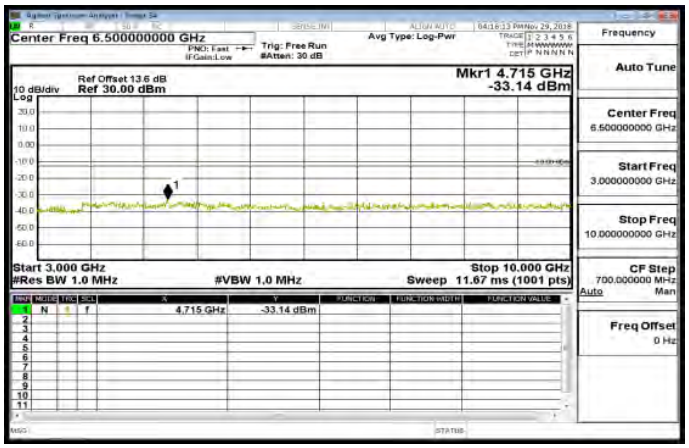
30MHz~3GHz_Band26_10MHz_QPSK_1_0_HighCH26990



30MHz~3GHz_Band26_10MHz_QPSK_1_0_MidCH26915



3GHz~10GHz_Band26_10MHz_QPSK_1_0_HighCH26990



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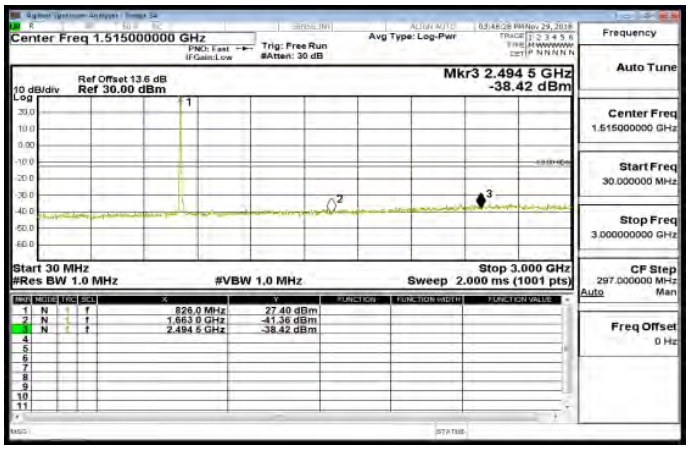
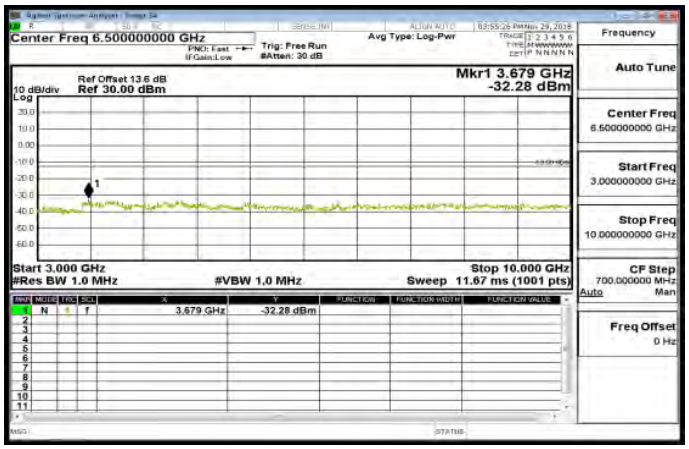
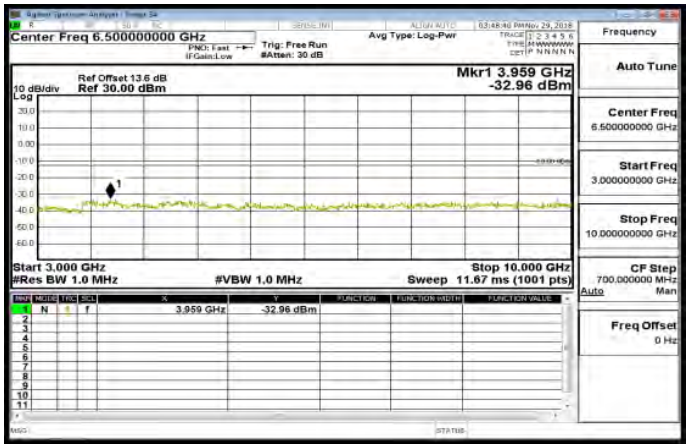
30MHz~3GHz_Band26_15MHz_QPSK_1_0_LowCH26865



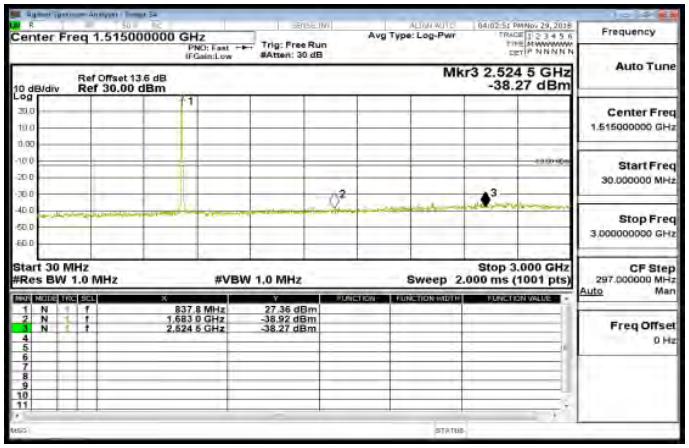
3GHz~10GHz_Band26_15MHz_QPSK_1_0_MidCH26915



3GHz~10GHz_Band26_15MHz_QPSK_1_0_LowCH26865



30MHz~3GHz_Band26_15MHz_QPSK_1_0_HighCH26965



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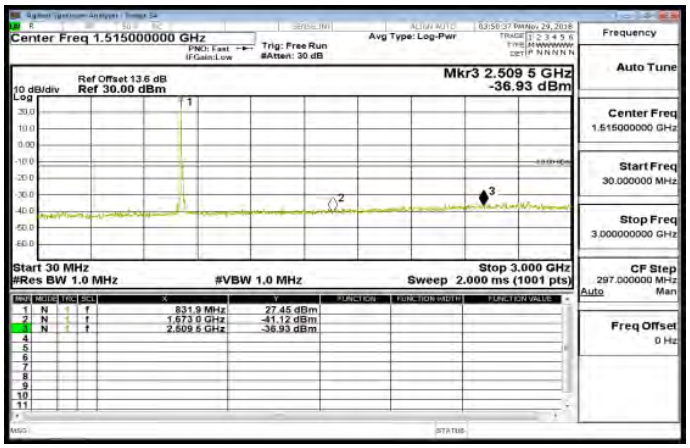
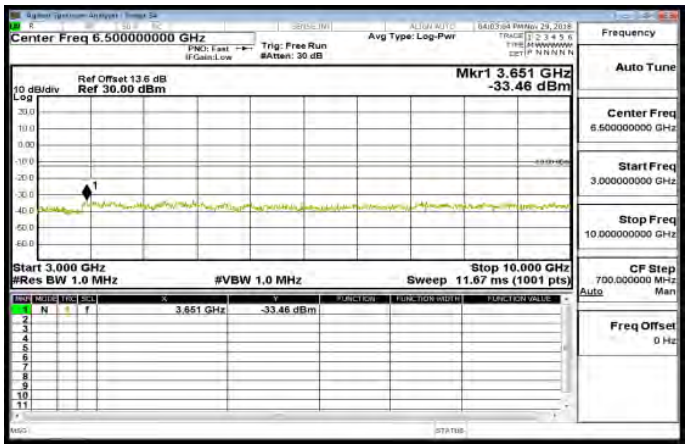


3GHz~10GHz_Band26_15MHz_QPSK_1_0_HighCH26965



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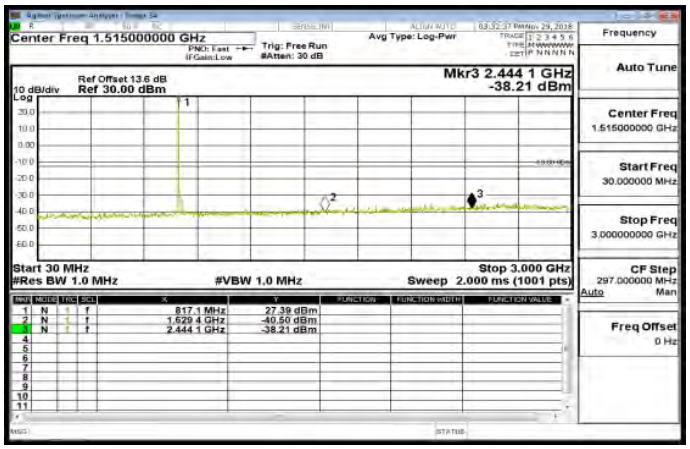
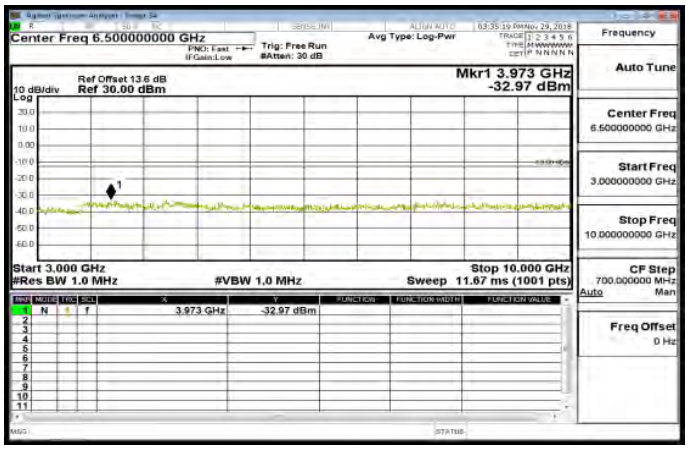
30MHz~3GHz_Band26_Part90s_1_4MHz_QPSK_1_0_LowCH26697



3GHz~10GHz_Band26_Part90s_1_4MHz_QPSK_1_0_MidCH26740



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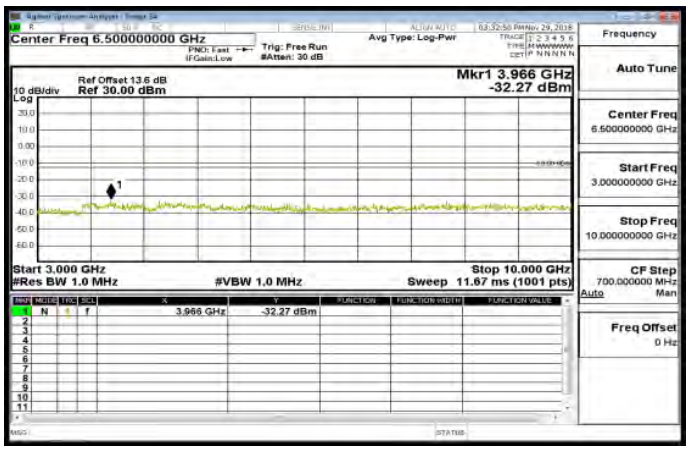
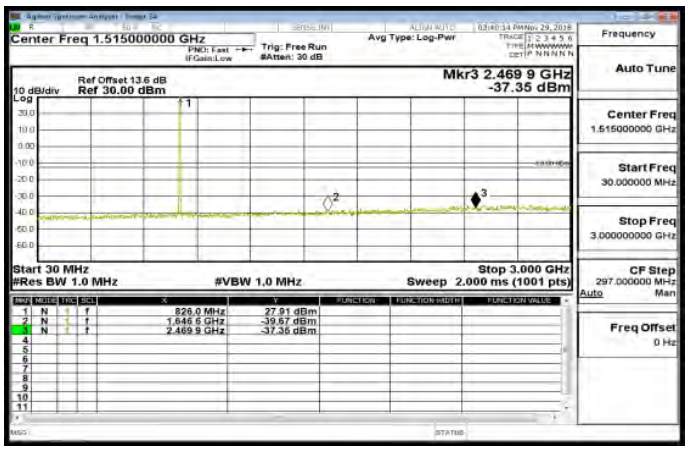
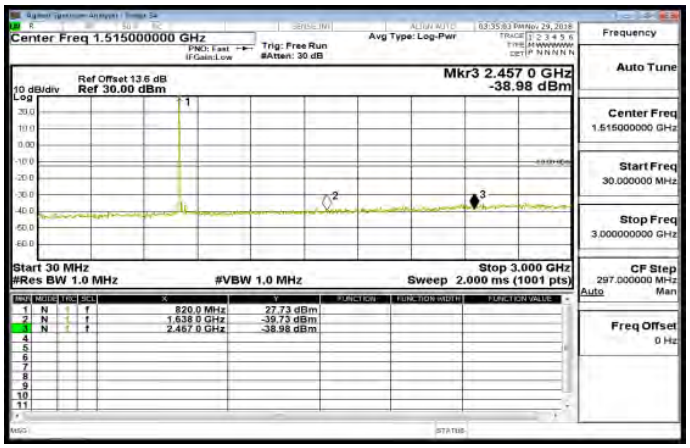


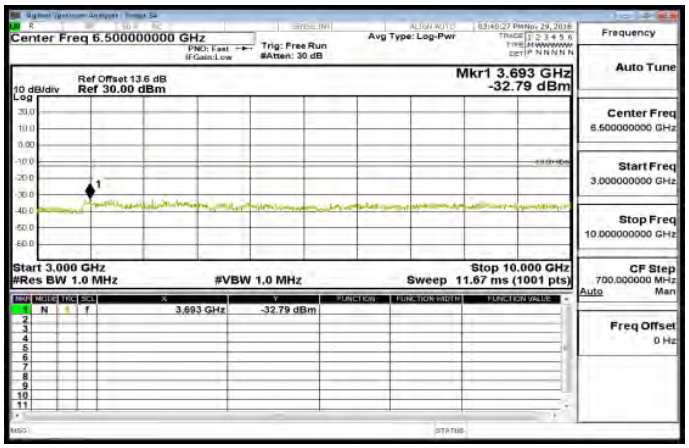
30MHz~3GHz_Band26_Part90s_1_4MHz_QPSK_1_0_HighCH26783



30MHz~3GHz_Band26_Part90s_1_4MHz_QPSK_1_0_MidCH26740



3GHz~10GHz_Band26_Part90s_1_4MHz_QPSK_1_0_HighCH26783



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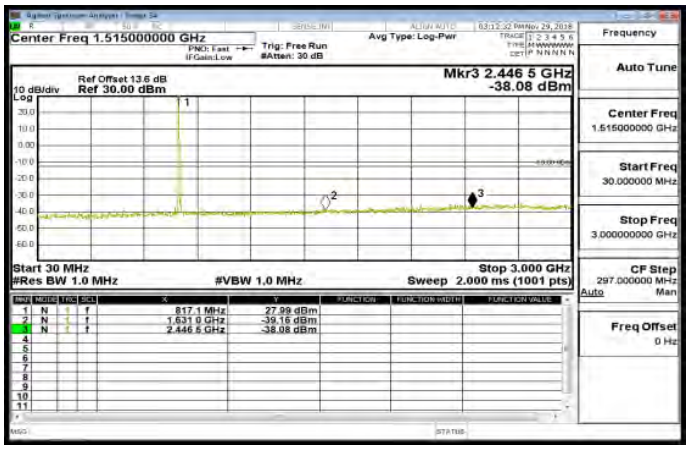
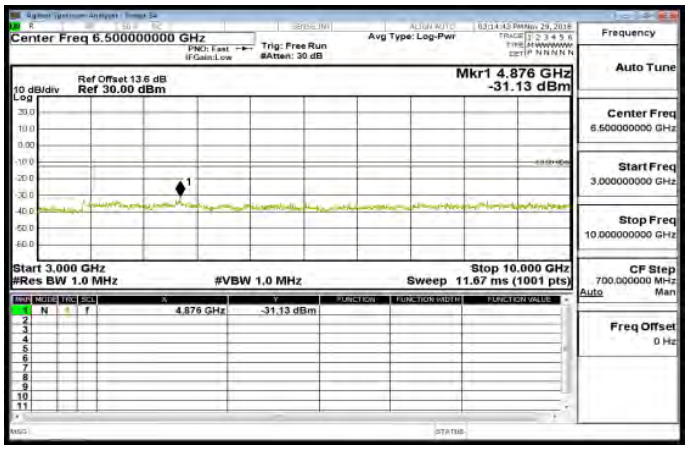
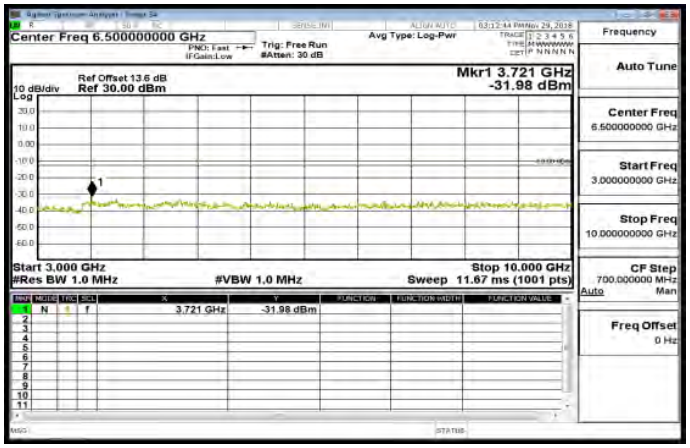
30MHz~3GHz_Band26_Part90s_3MHz_QPSK_1_0_LowCH26705



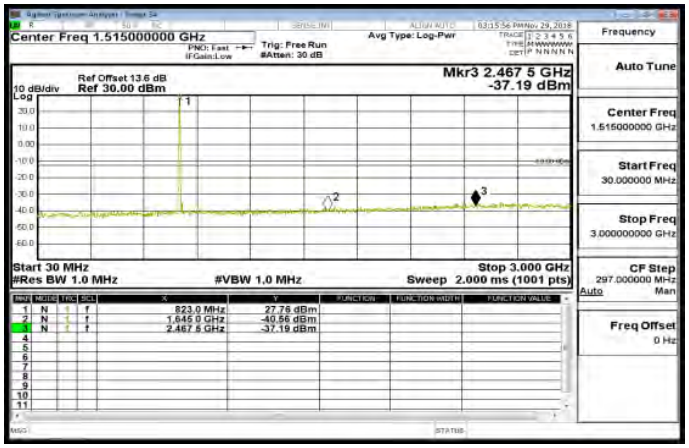
3GHz~10GHz_Band26_Part90s_3MHz_QPSK_1_0_MidCH26740



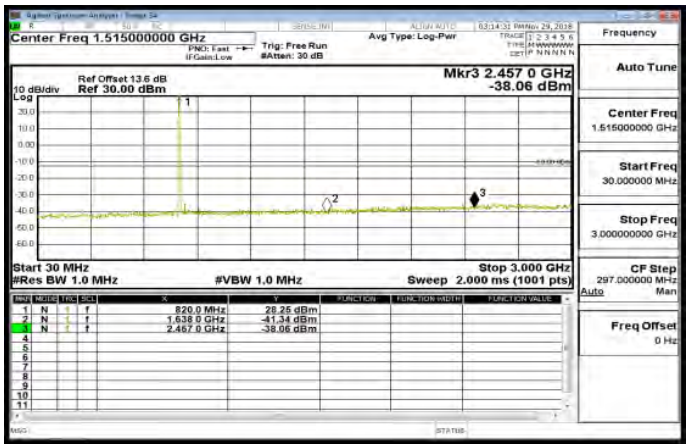
3GHz~10GHz_Band26_Part90s_3MHz_QPSK_1_0_LowCH26705



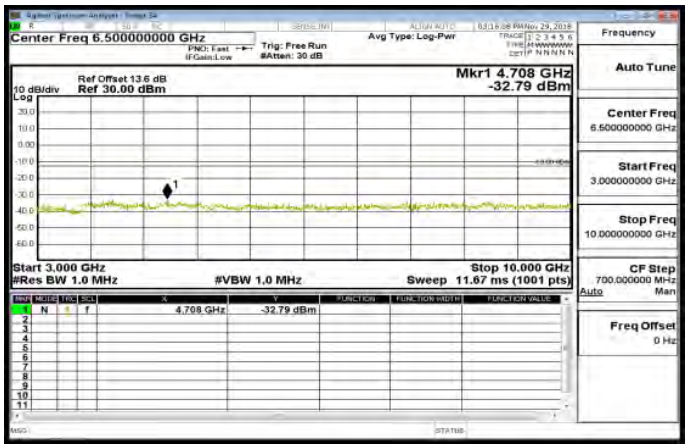
30MHz~3GHz_Band26_Part90s_3MHz_QPSK_1_0_HighCH26775



30MHz~3GHz_Band26_Part90s_3MHz_QPSK_1_0_MidCH26740



3GHz~10GHz_Band26_Part90s_3MHz_QPSK_1_0_HighCH26775



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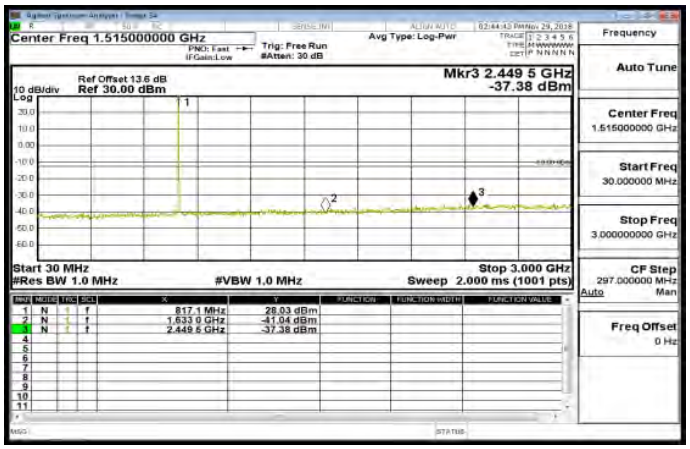
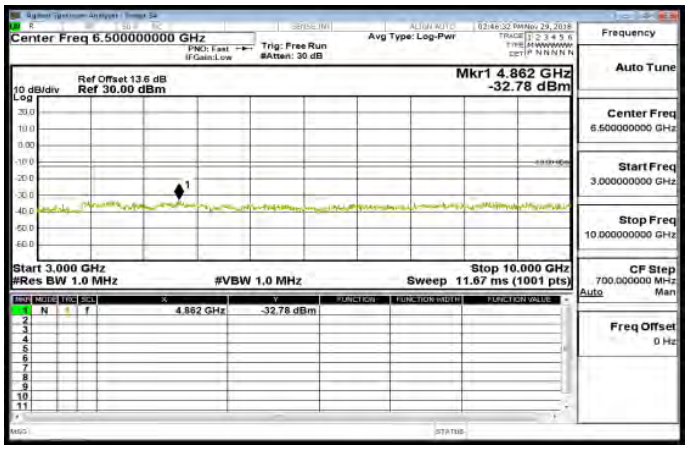
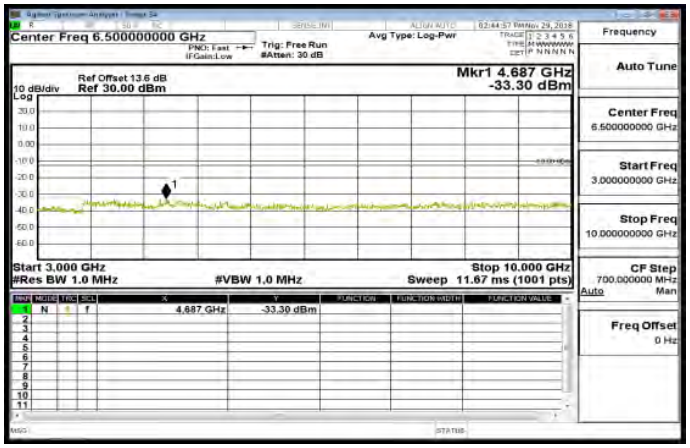
30MHz~3GHz_Band26_Part90s_5MHz_QPSK_1_0_LowCH26715



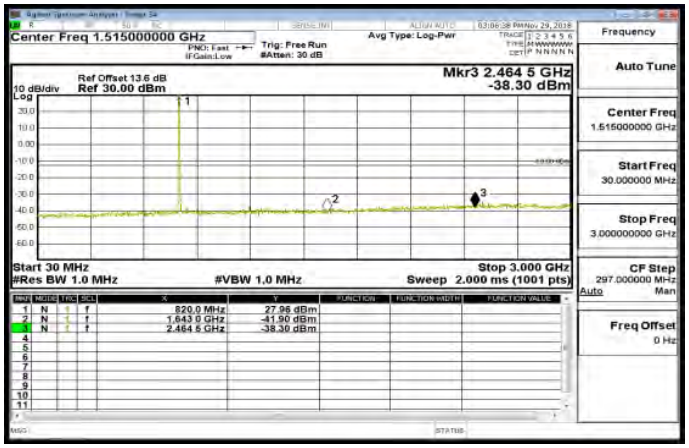
3GHz~10GHz_Band26_Part90s_5MHz_QPSK_1_0_MidCH26740



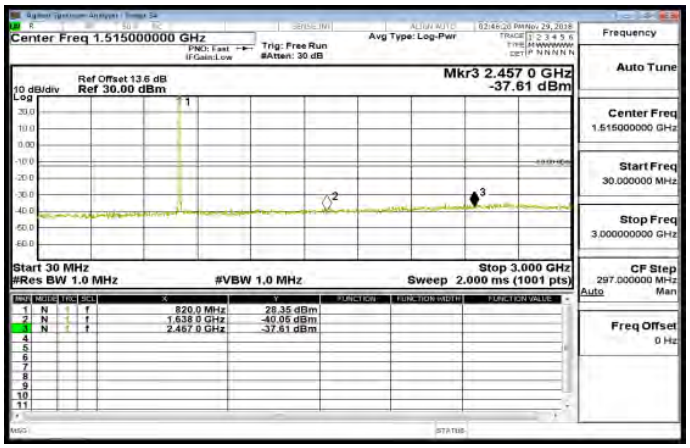
3GHz~10GHz_Band26_Part90s_5MHz_QPSK_1_0_LowCH26715



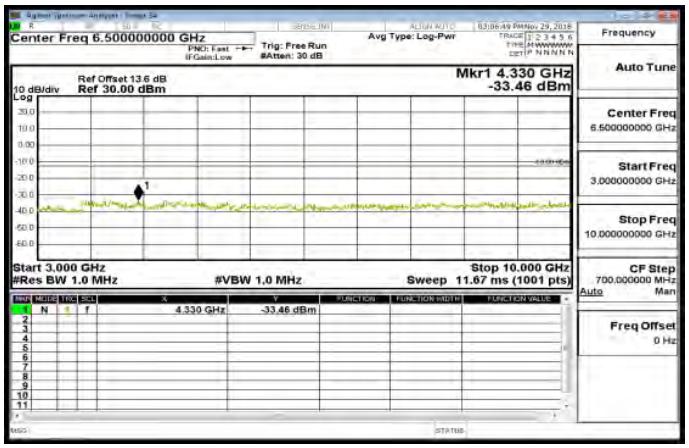
30MHz~3GHz_Band26_Part90s_5MHz_QPSK_1_0_HighCH26765



30MHz~3GHz_Band26_Part90s_5MHz_QPSK_1_0_MidCH26740



3GHz~10GHz_Band26_Part90s_5MHz_QPSK_1_0_HighCH26765



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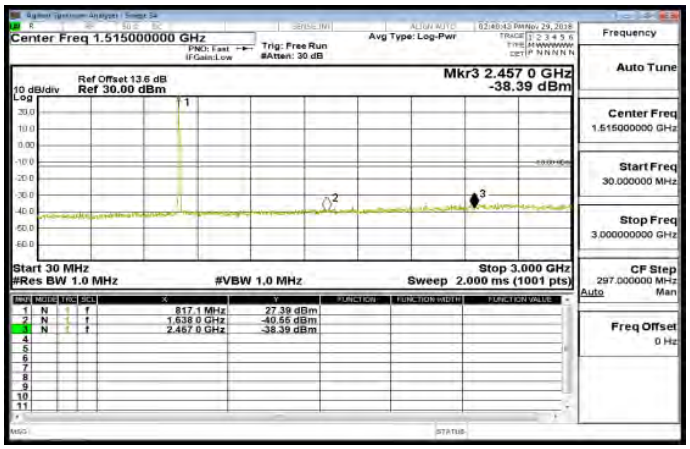
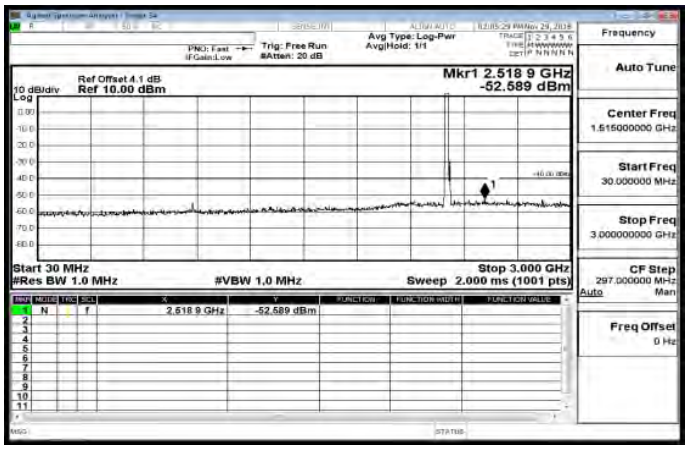
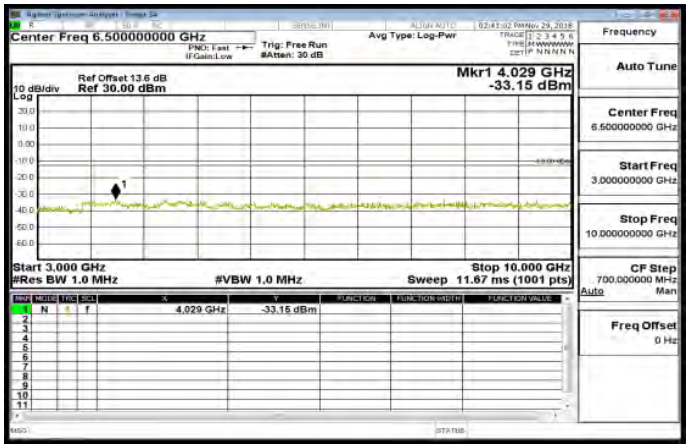
30MHz~3GHz_Band26_Part90s_10MHz_QPSK_1_0_MidCH26740



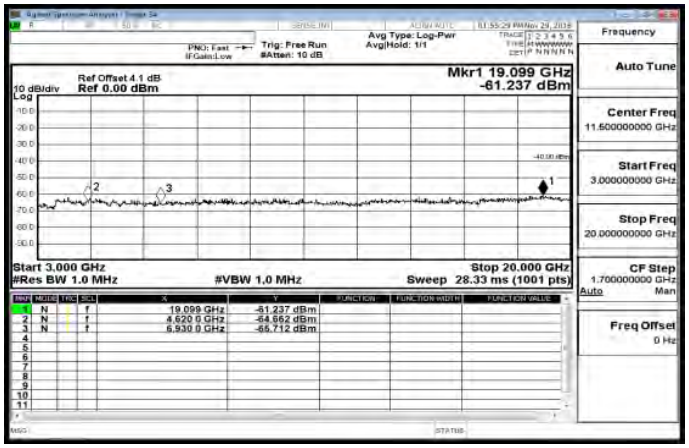
30MHz~3GHz_Band30_5MHz_QPSK_1_0_LowCH27685



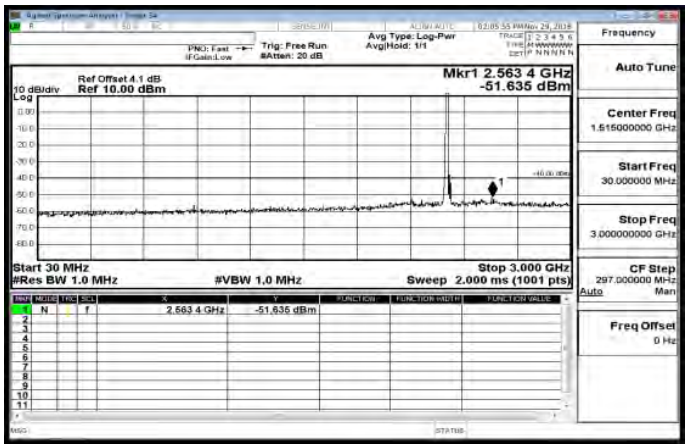
3GHz~10GHz_Band26_Part90s_10MHz_QPSK_1_0_MidCH26740



3GHz~10GHz_Band30_5MHz_QPSK_1_0_LowCH27685



30MHz~3GHz_Band30_5MHz_QPSK_1_0_MidCH27710



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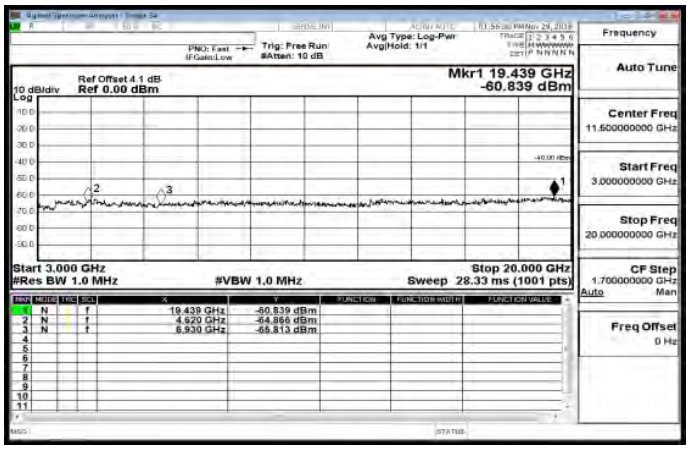
3GHz~10GHz_Band30_5MHz_QPSK_1_0_MidCH27710



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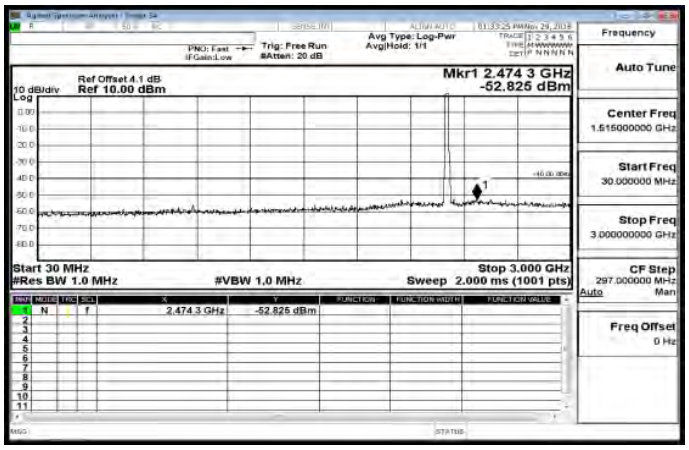
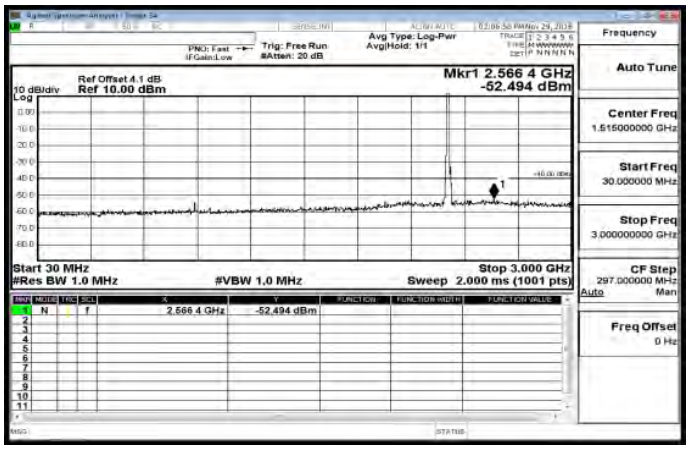
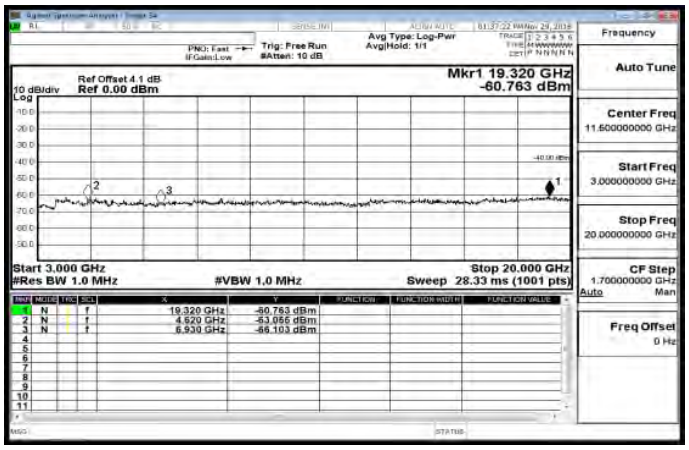


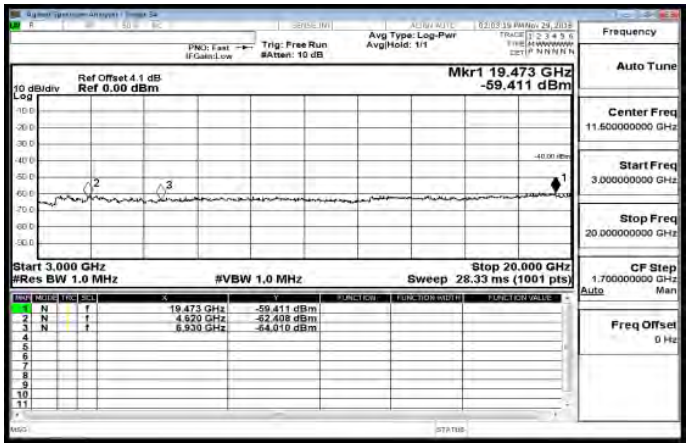
30MHz~3GHz_Band30_5MHz_QPSK_1_0_HighCH27735



3GHz~10GHz_Band30_10MHz_QPSK_1_0_MidCH27710



3GHz~10GHz_Band30_5MHz_QPSK_1_0_HighCH27735



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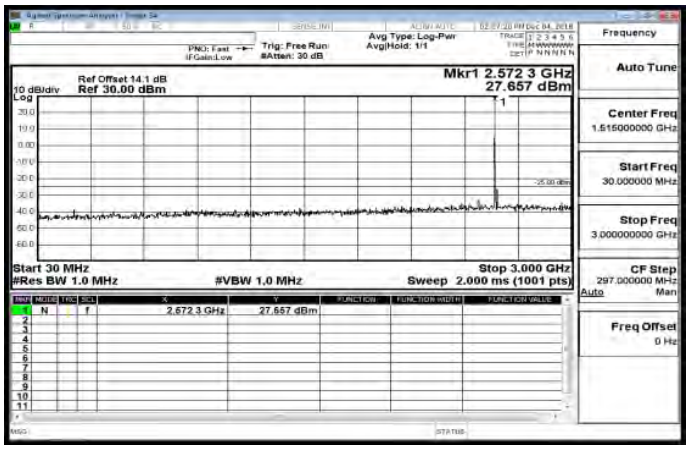
30MHz~3GHz_Band38_5MHz_QPSK_1_0_LowCH37775-2572.5



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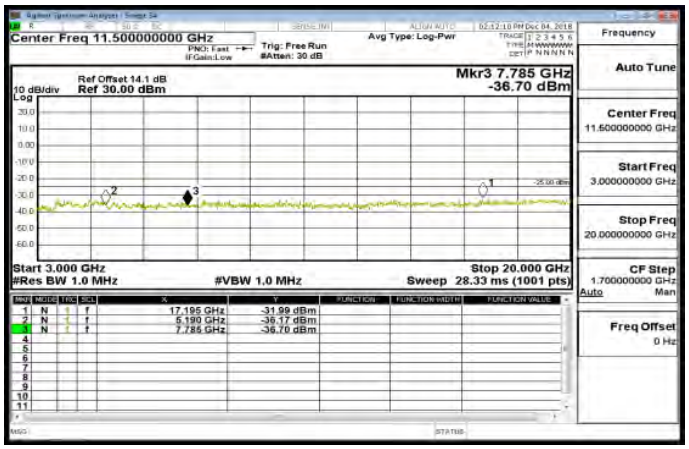
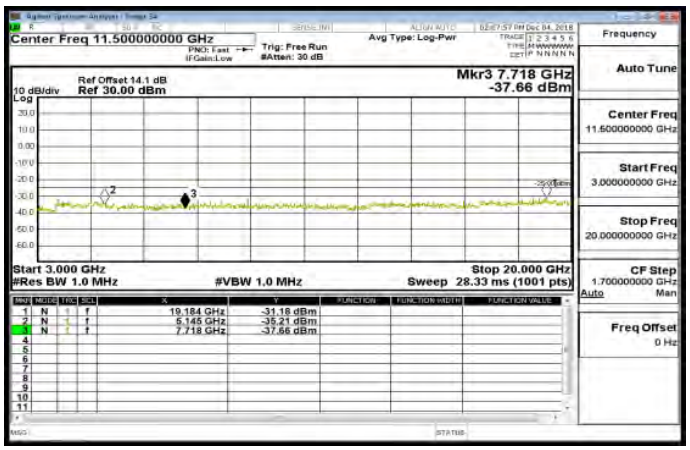
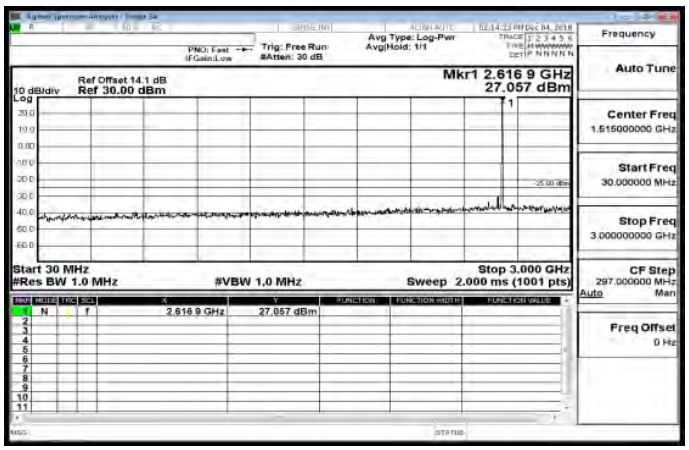


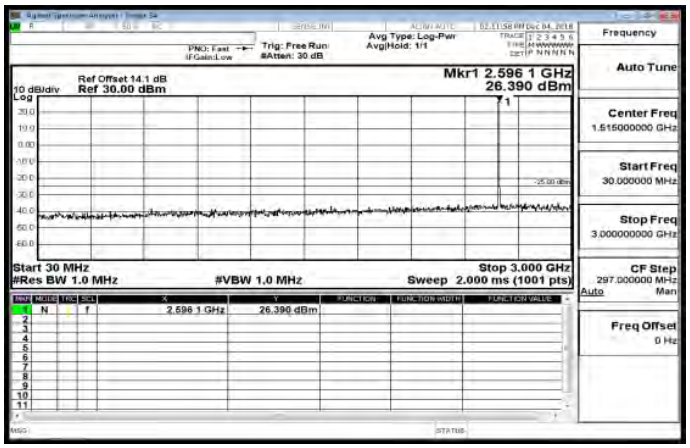
3GHz~10GHz_Band38_5MHz_QPSK_1_0_LowCH37775-2572.5



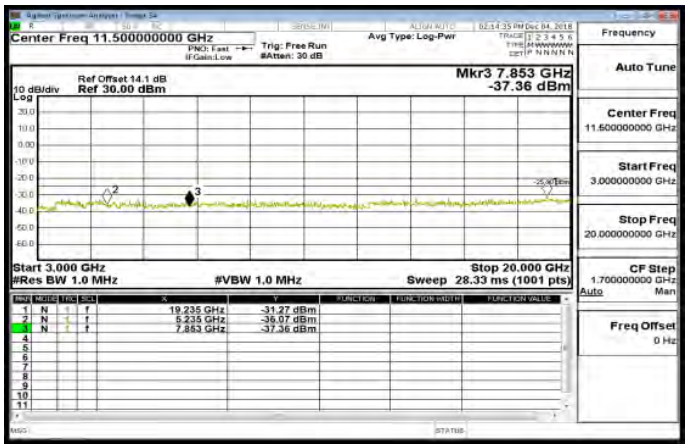
30MHz~3GHz_Band38_5MHz_QPSK_1_0_HighCH38225-2617.5



30MHz~3GHz_Band38_5MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_5MHz_QPSK_1_0_HighCH38225-2617.5



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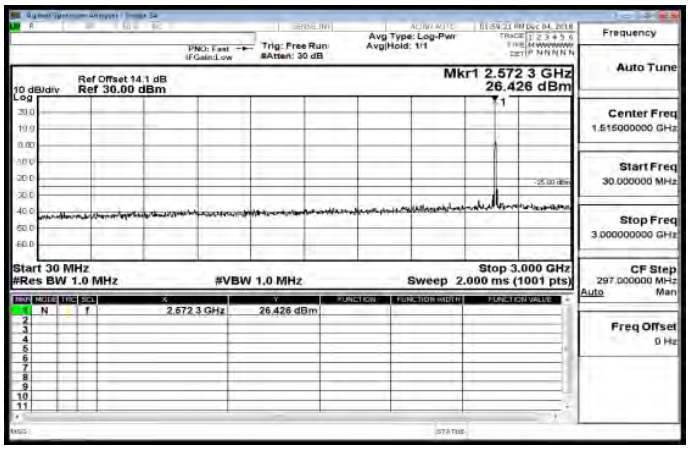
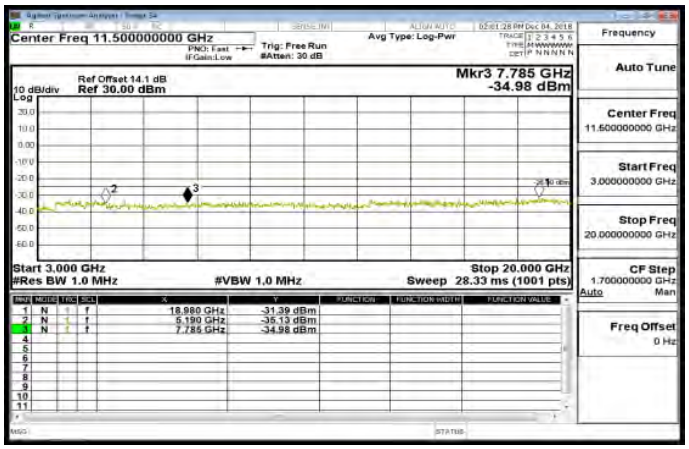
30MHz~3GHz_Band38_10MHz_QPSK_1_0_LowCH37800-2575



3GHz~10GHz_Band38_10MHz_QPSK_1_0_MidCH38000-2595



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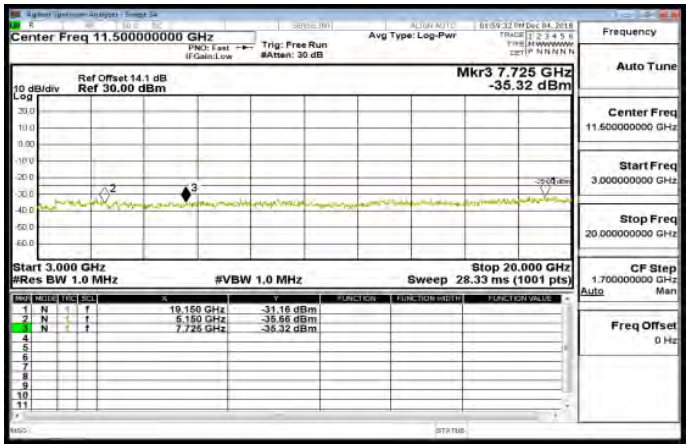
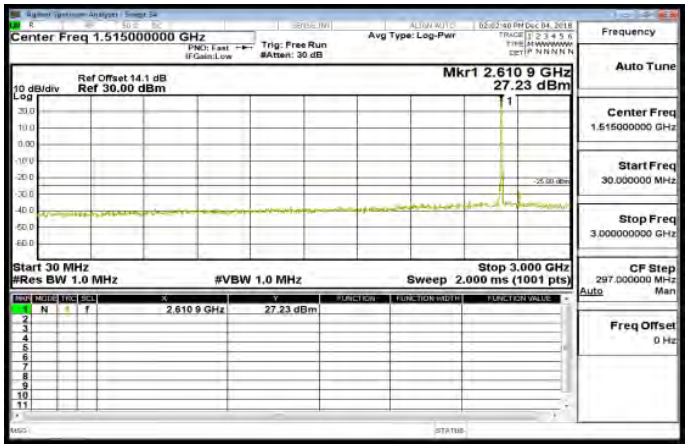


30MHz~3GHz_Band38_10MHz_QPSK_1_0_HighCH38200-2615



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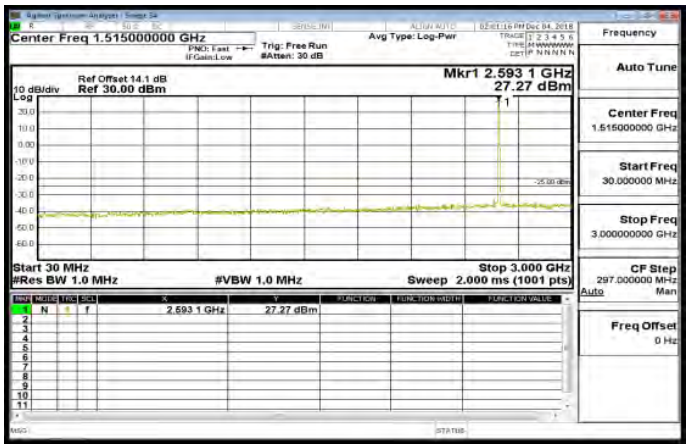
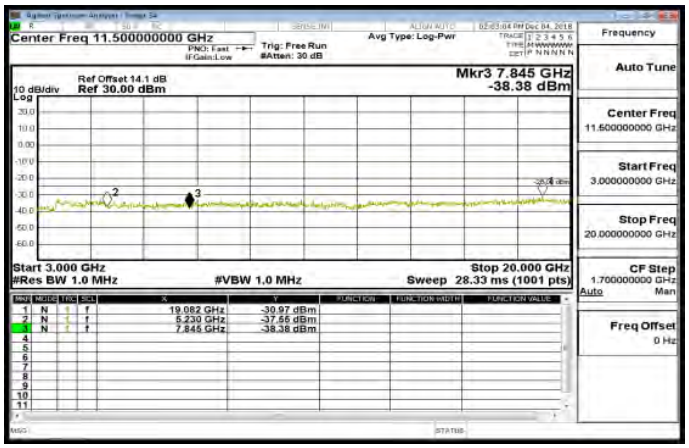


3GHz~10GHz_Band38_10MHz_QPSK_1_0_HighCH38200-2615



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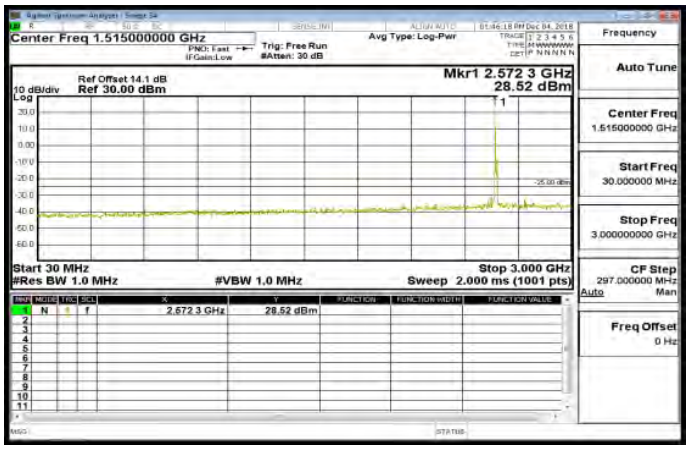
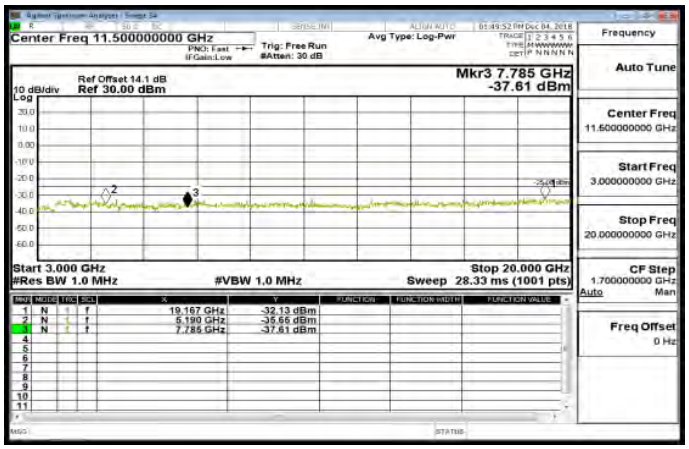
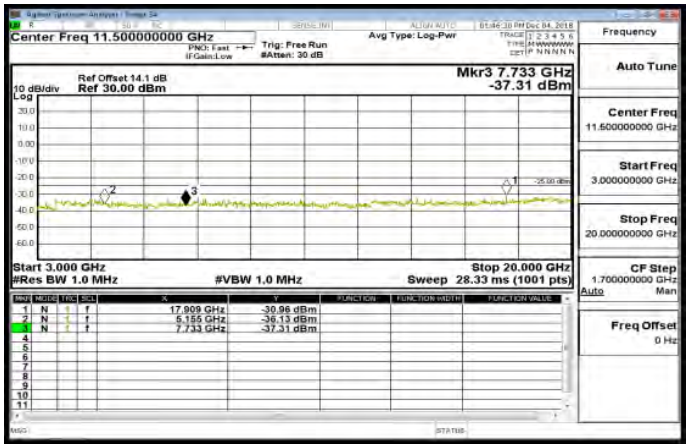
30MHz~3GHz_Band38_15MHz_QPSK_1_0_LowCH37825-2577.5



3GHz~10GHz_Band38_15MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_15MHz_QPSK_1_0_LowCH37825-2577.5



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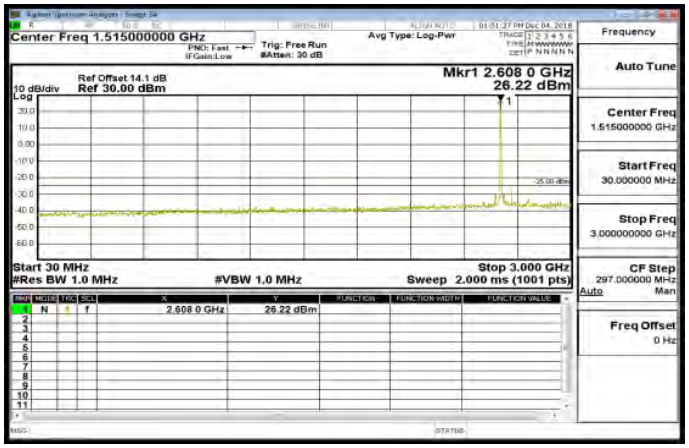
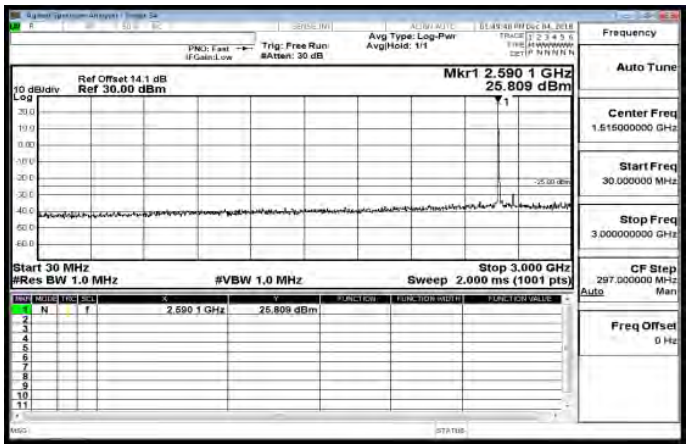


30MHz~3GHz_Band38_15MHz_QPSK_1_0_MidCH38000-2595



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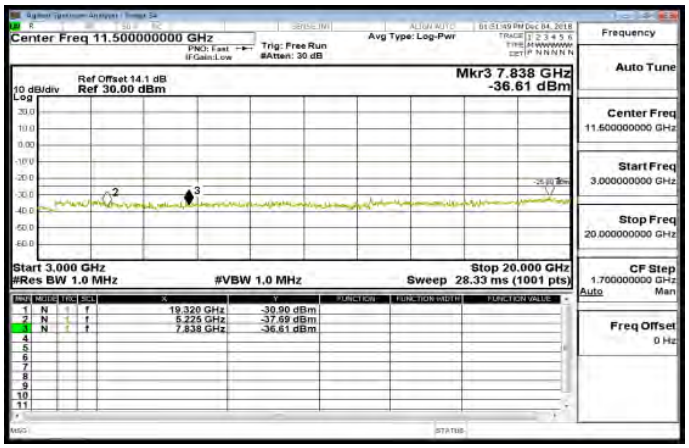

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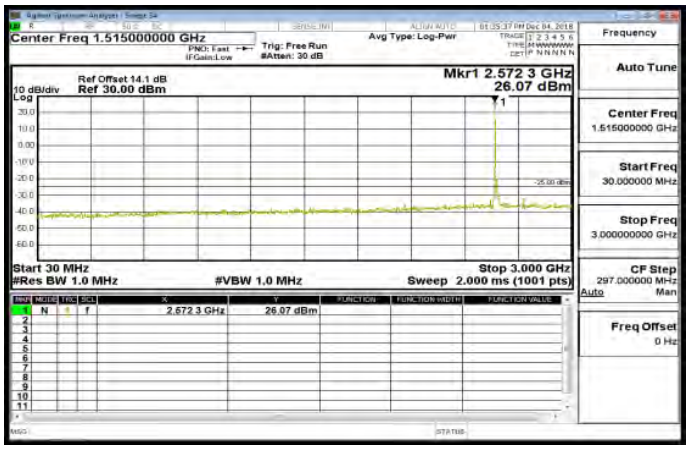
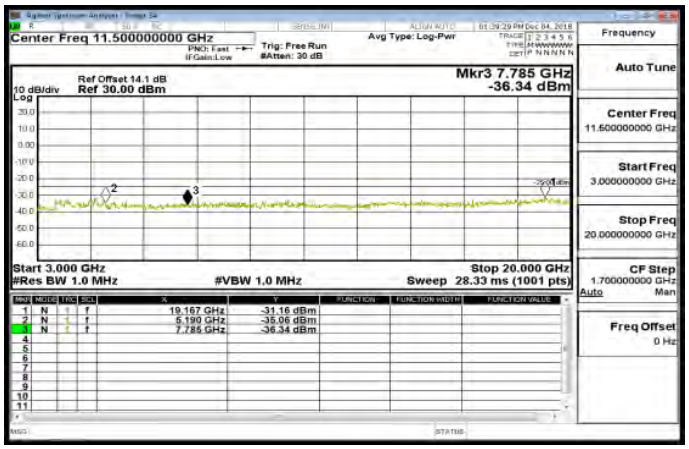
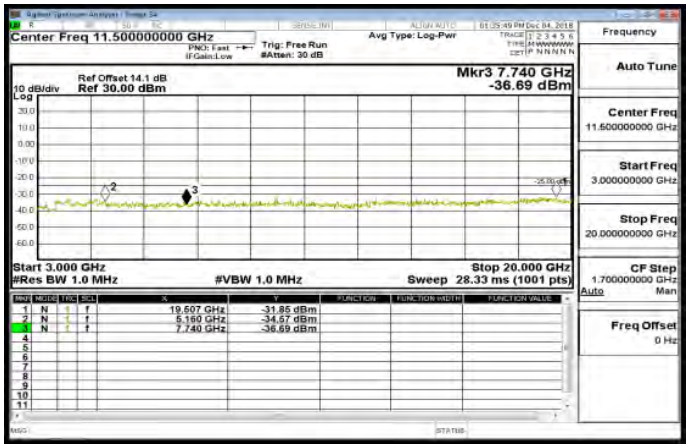
30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595



3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



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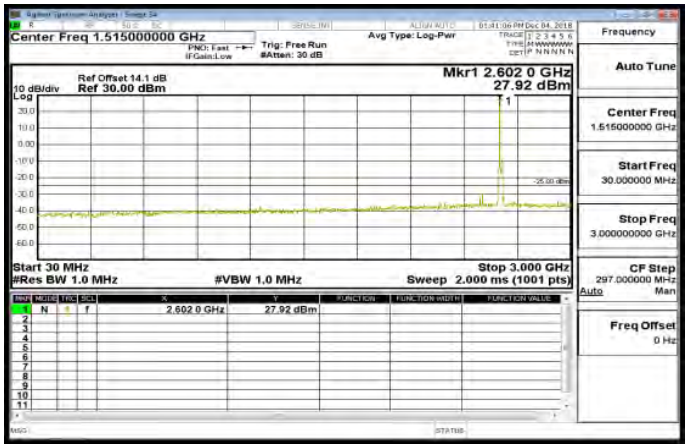
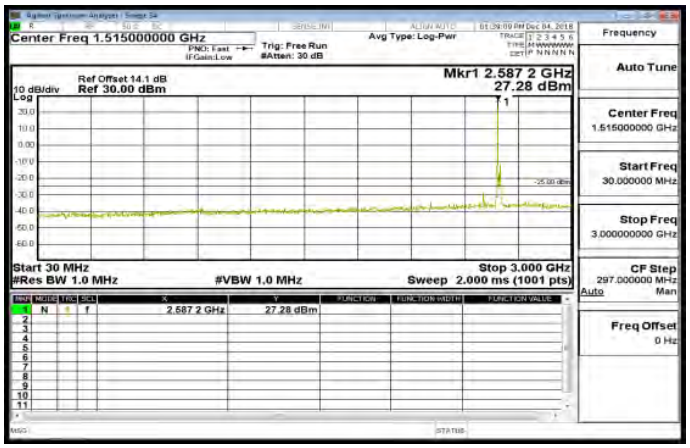


30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595



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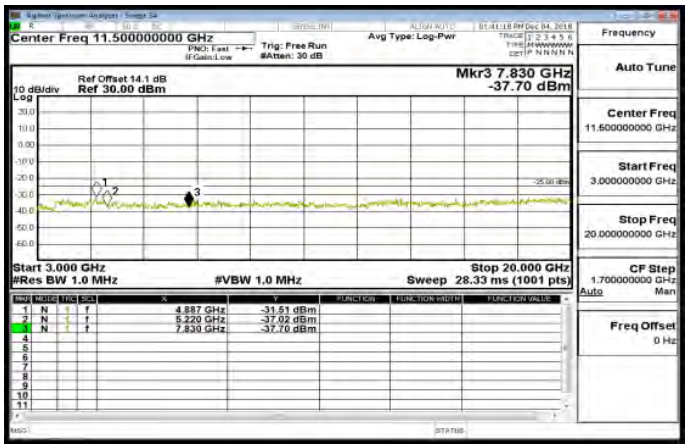

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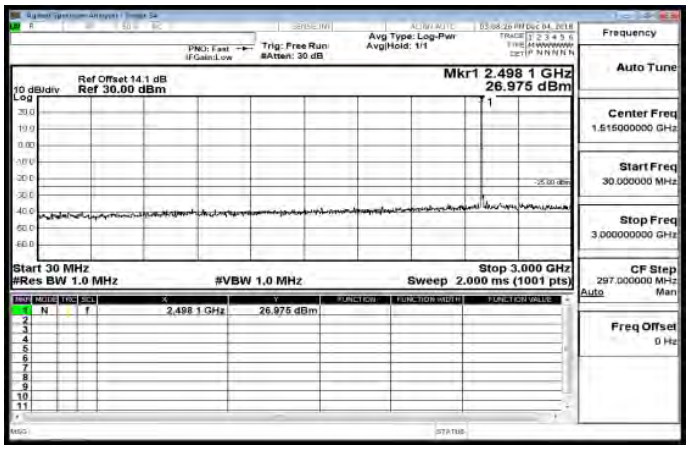
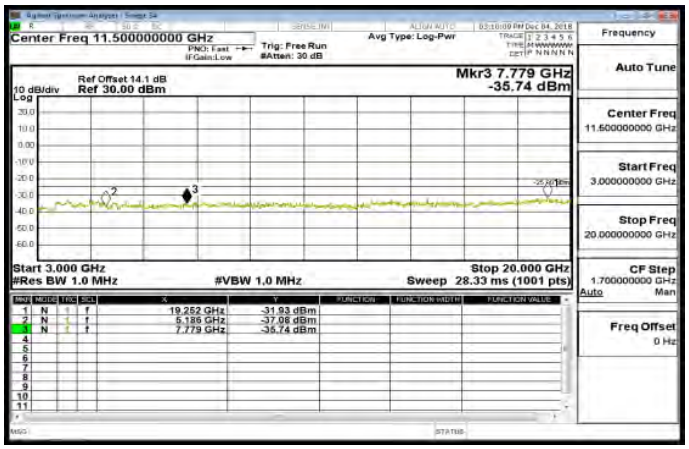
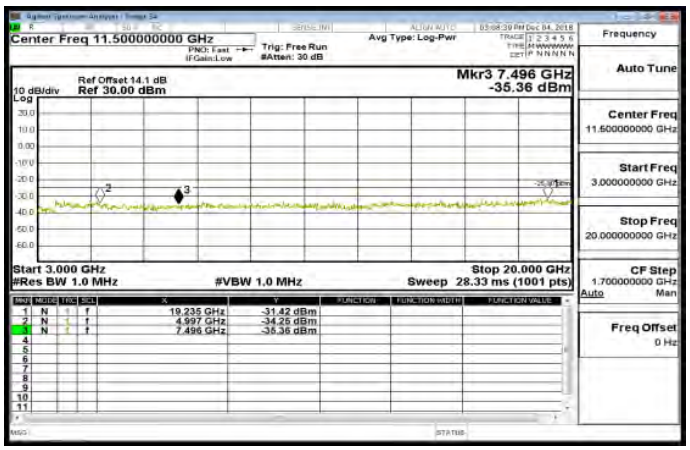
30MHz~3GHz_Band41_5MHz_QPSK_1_0_LowCH39675-2498.5



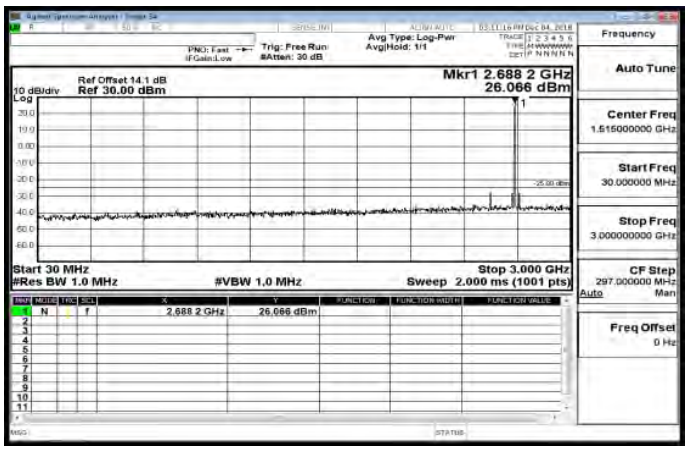
3GHz~10GHz_Band41_5MHz_QPSK_1_0_MidCH40620-2593



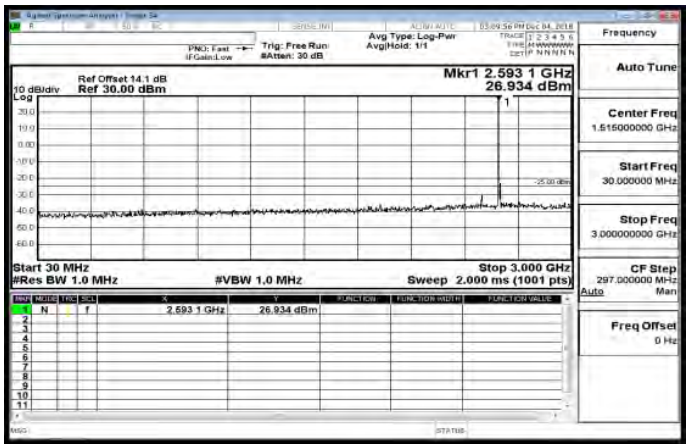
3GHz~10GHz_Band41_5MHz_QPSK_1_0_LowCH39675-2498.5



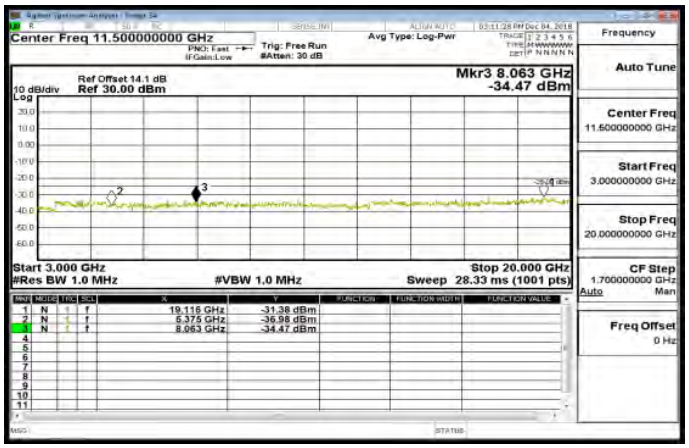
30MHz~3GHz_Band41_5MHz_QPSK_1_0_HighCH41565-2687.5



30MHz~3GHz_Band41_5MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_5MHz_QPSK_1_0_HighCH41565-2687.5



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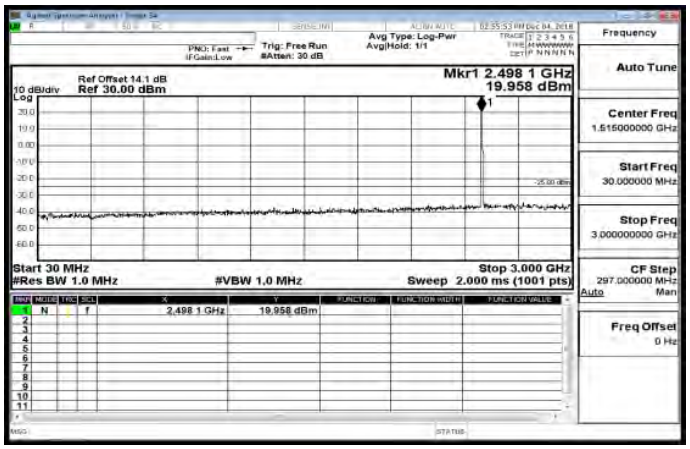
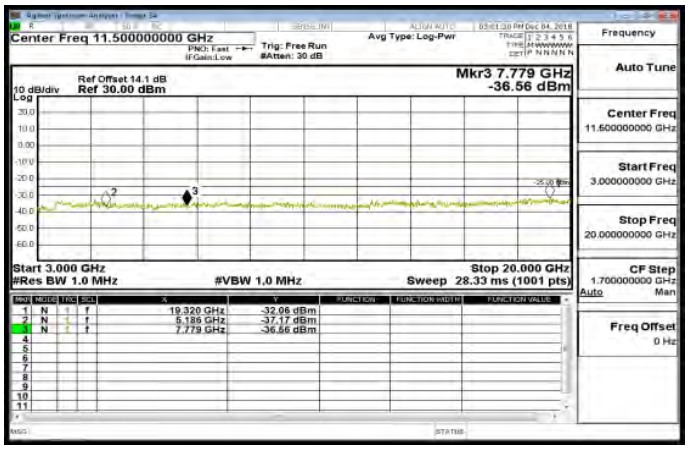
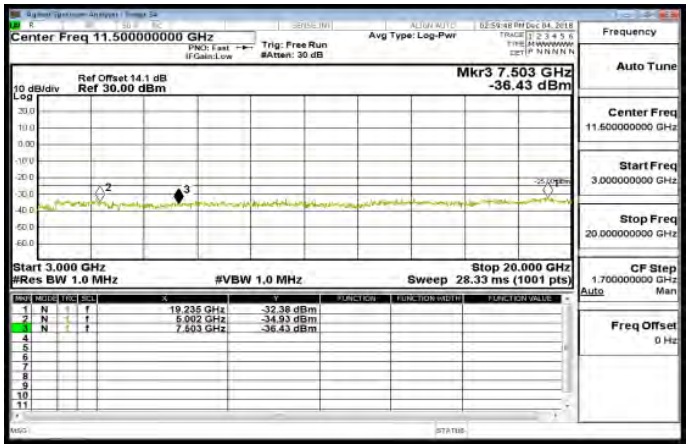
30MHz~3GHz_Band41_10MHz_QPSK_1_0_LowCH39700-2501



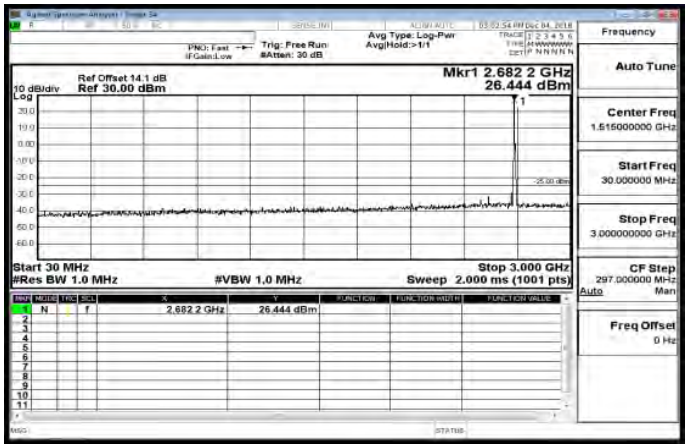
3GHz~10GHz_Band41_10MHz_QPSK_1_0_MidCH40620-2593



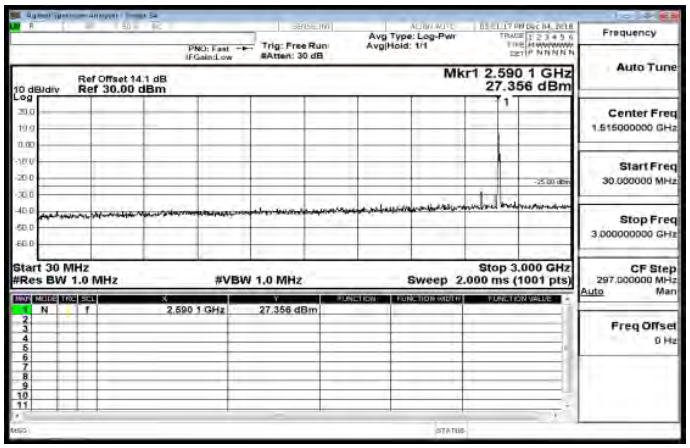
3GHz~10GHz_Band41_10MHz_QPSK_1_0_LowCH39700-2501



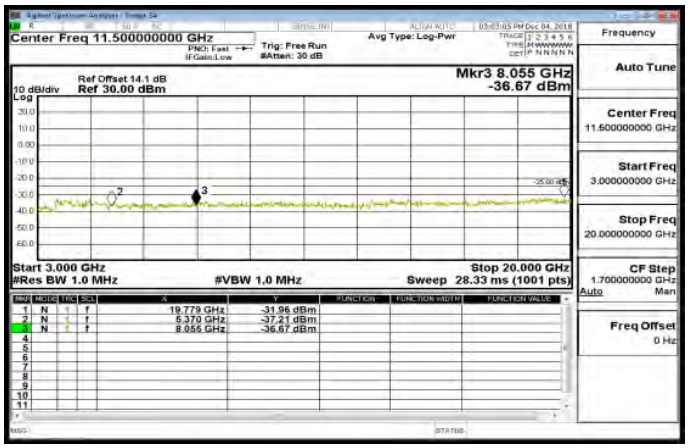
30MHz~3GHz_Band41_10MHz_QPSK_1_0_HighCH41540-2685



30MHz~3GHz_Band41_10MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_10MHz_QPSK_1_0_HighCH41540-2685



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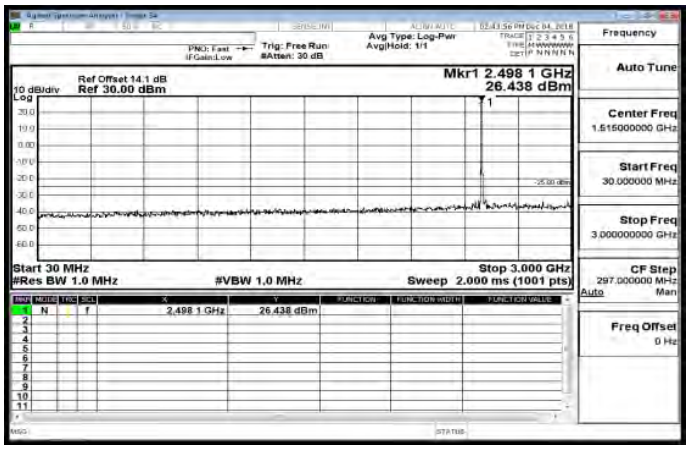
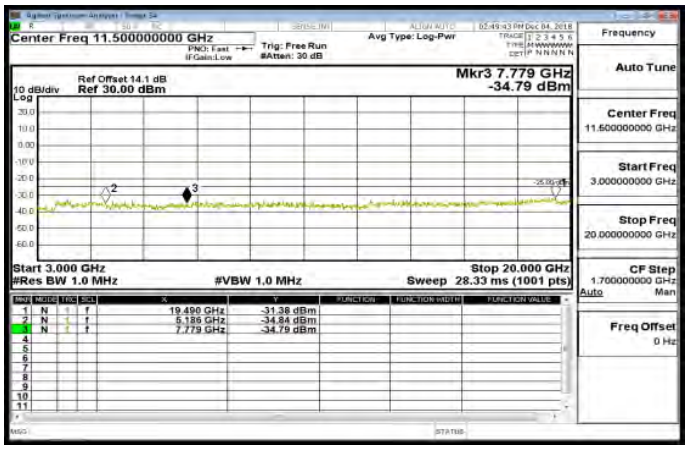
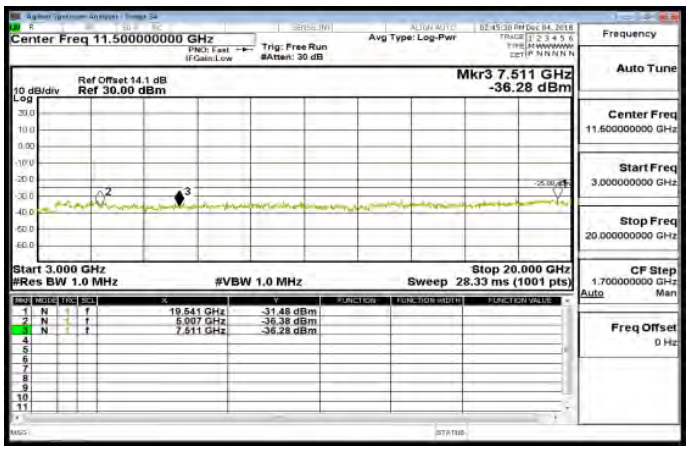
30MHz~3GHz_Band41_15MHz_QPSK_1_0_LowCH39725-2503.5



3GHz~10GHz_Band41_15MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_15MHz_QPSK_1_0_LowCH39725-2503.5



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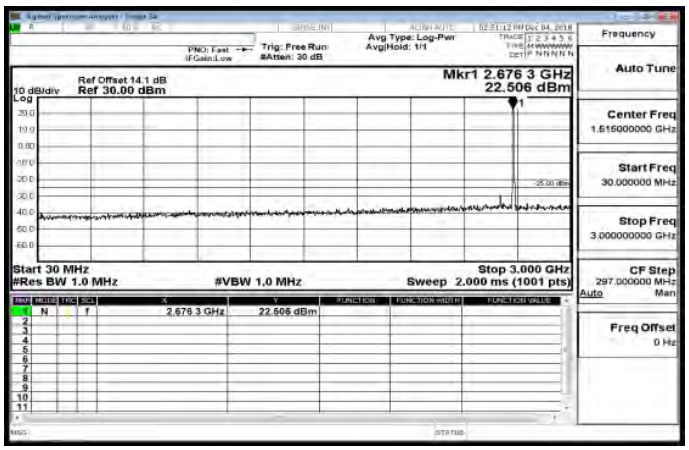
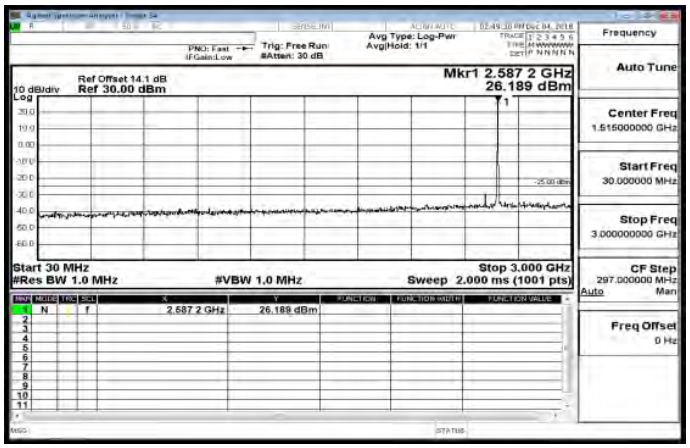


30MHz~3GHz_Band41_15MHz_QPSK_1_0_MidCH40620-2593



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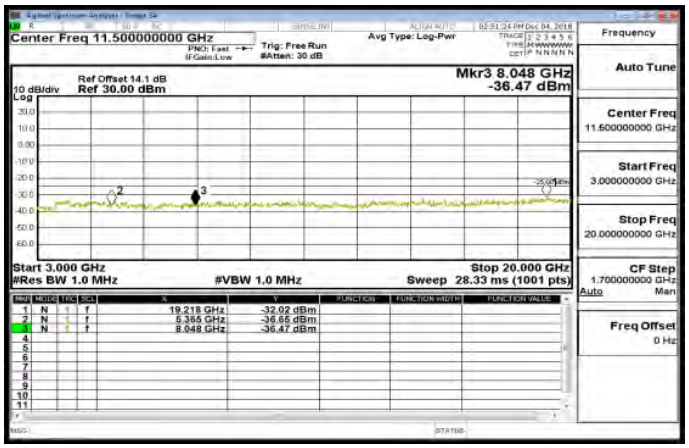

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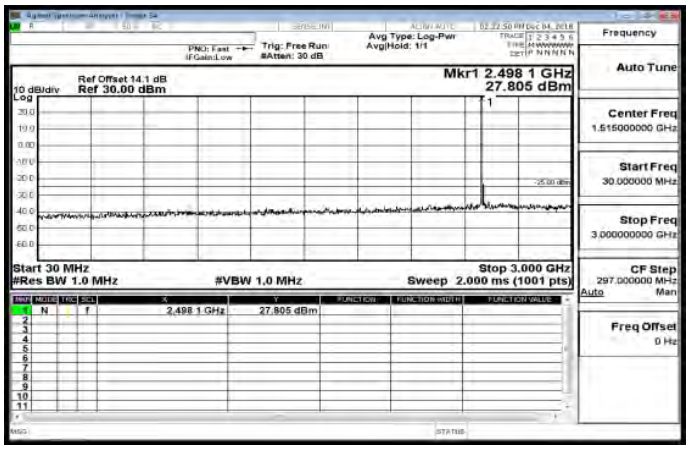
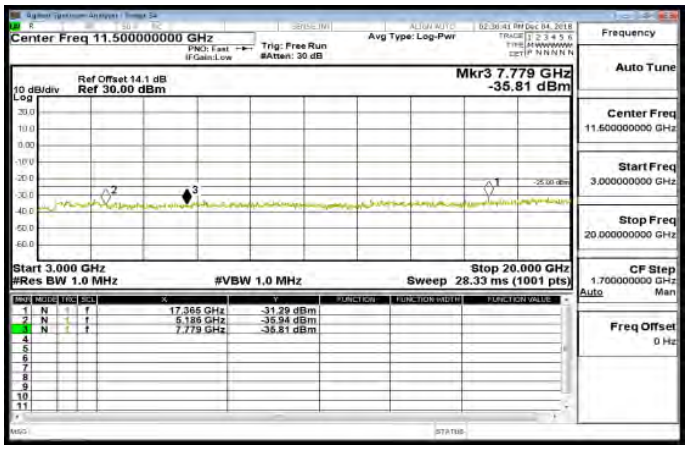
30MHz~3GHz_Band41_20MHz_QPSK_1_0_LowCH39750-2506



3GHz~10GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



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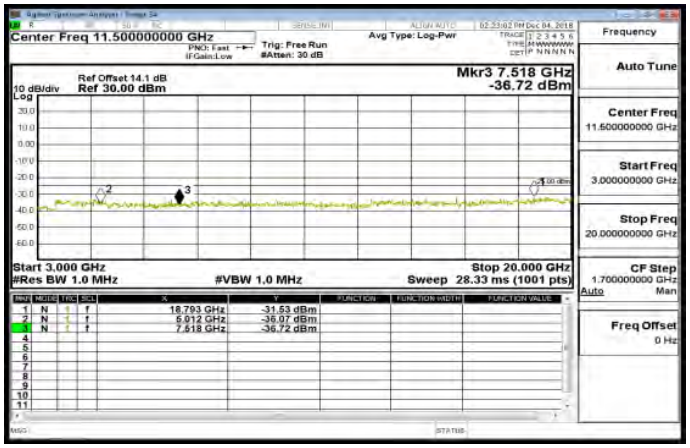
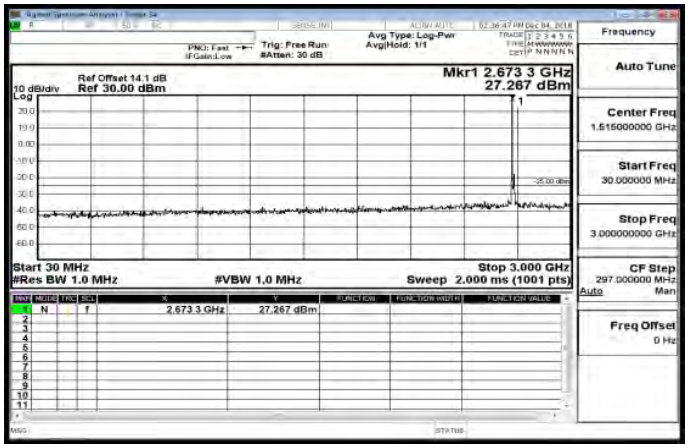
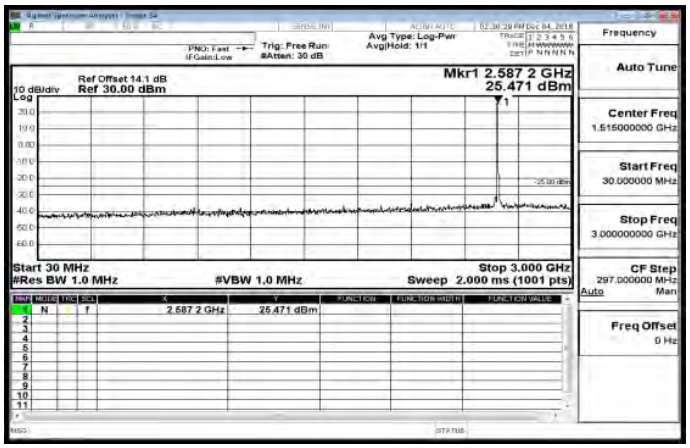


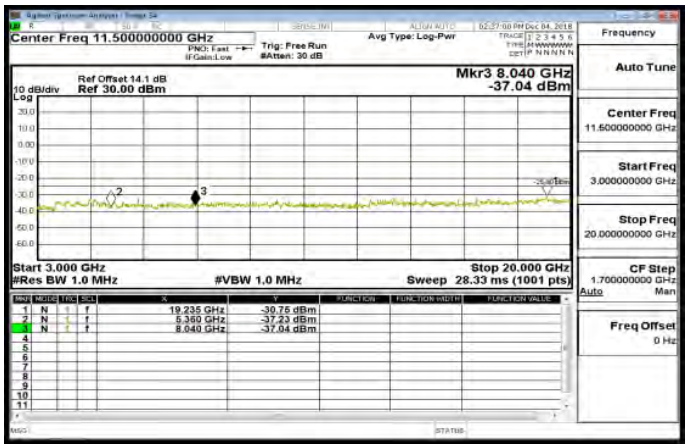
30MHz~3GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680



30MHz~3GHz_Band41_20MHz_QPSK_1_0_MidCH40620-2593



3GHz~10GHz_Band41_20MHz_QPSK_1_0_HighCH41490-2680



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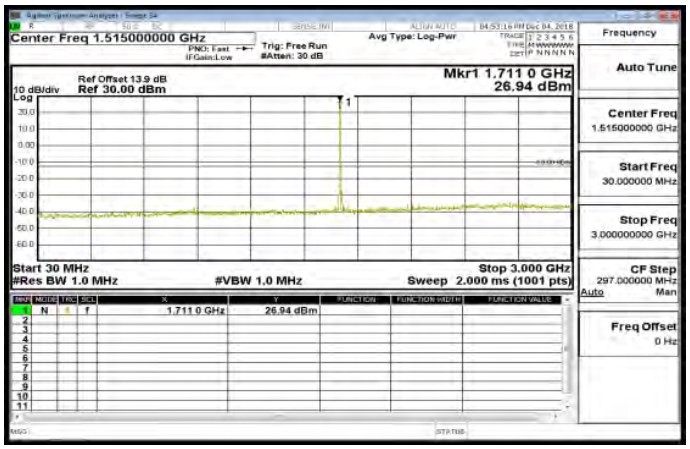
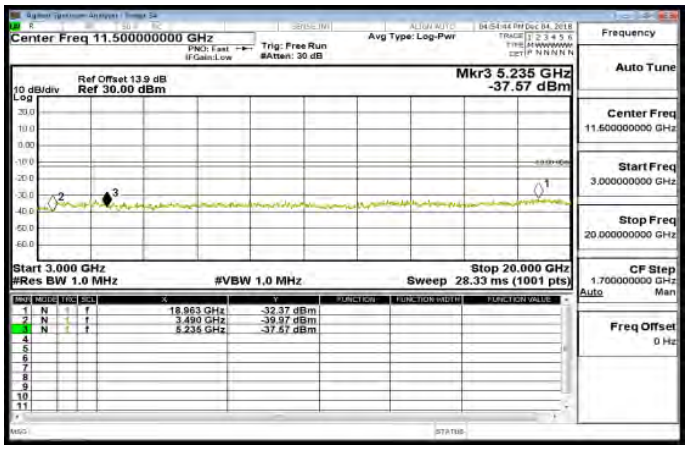
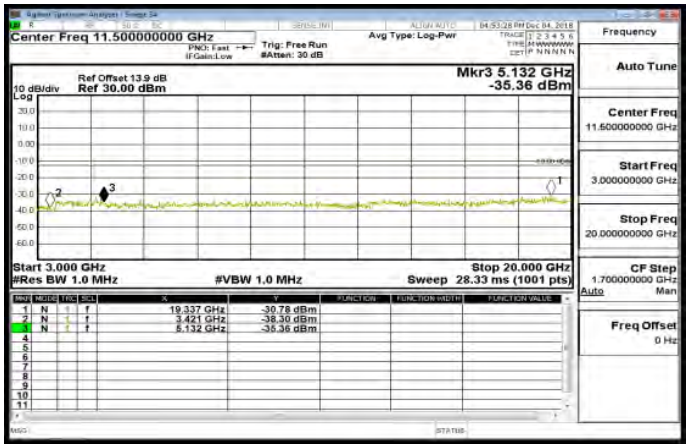
30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_LowCH131979-1710.7



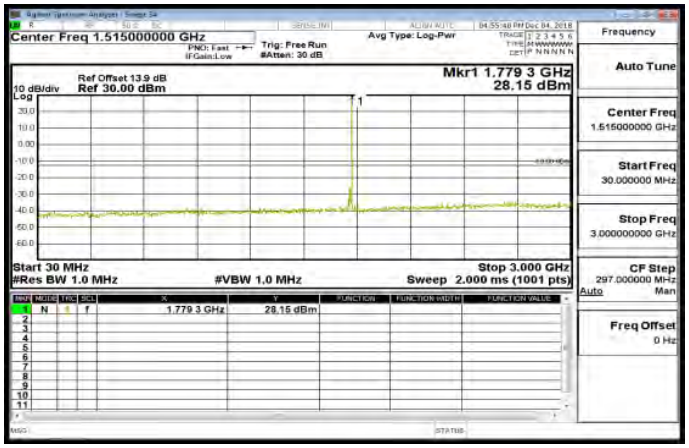
3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322-1745



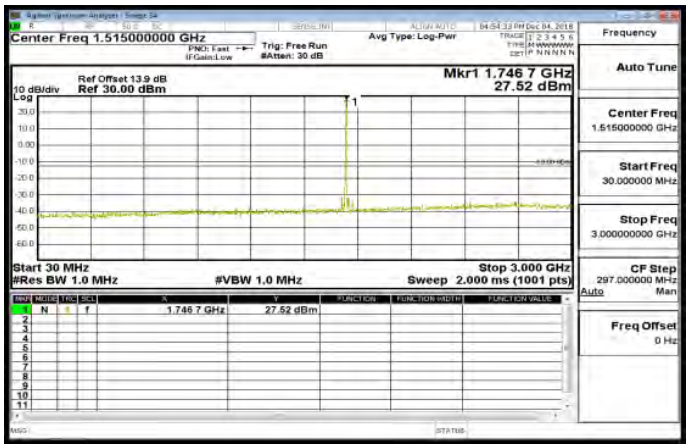
3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_LowCH131979-1710.7



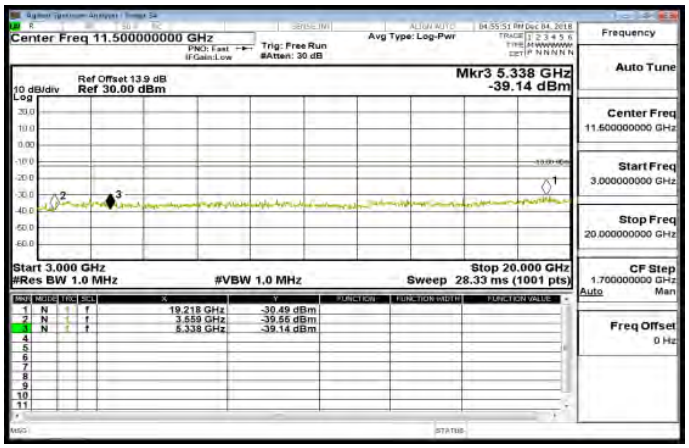
30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3



30MHz~3GHz_Band66_1_4MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_1_4MHz_QPSK_1_0_HighCH132665-1779.3



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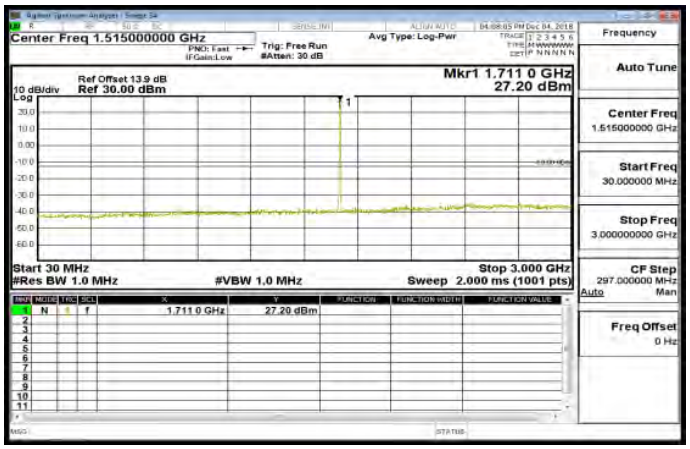
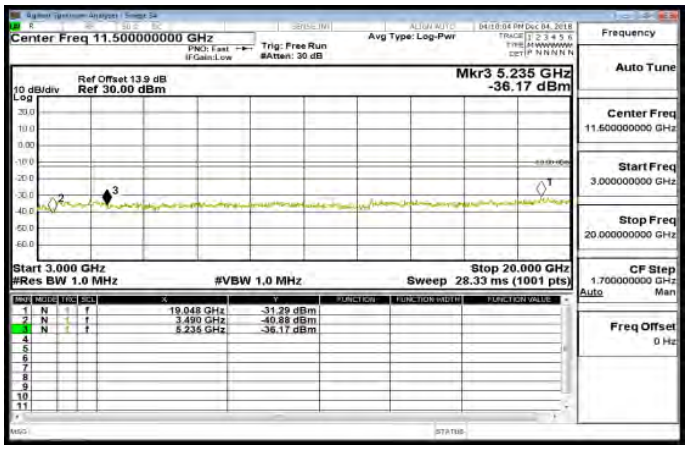
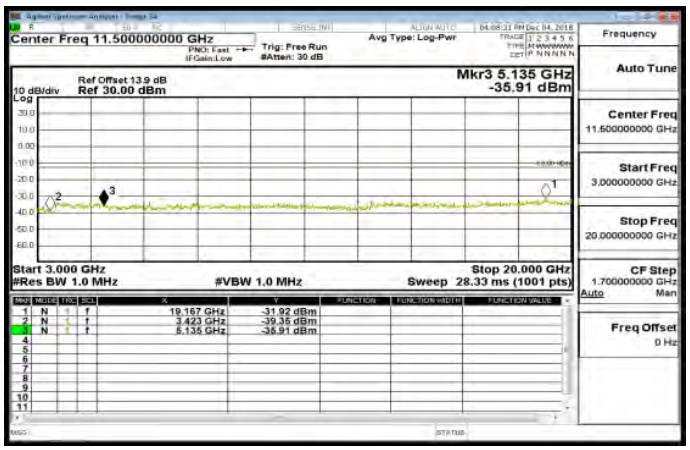
30MHz~3GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5



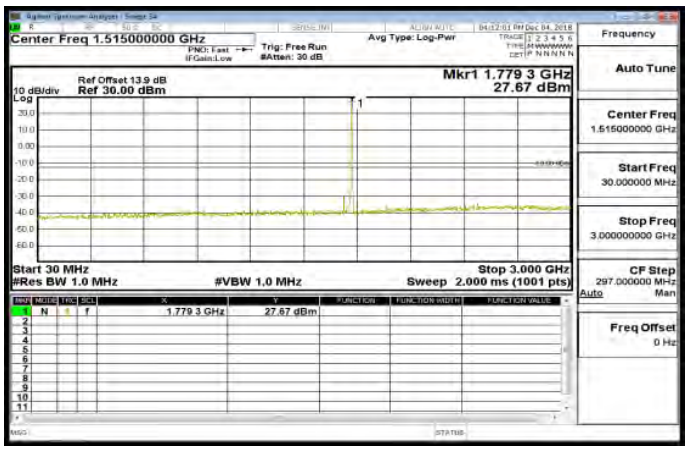
3GHz~10GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745



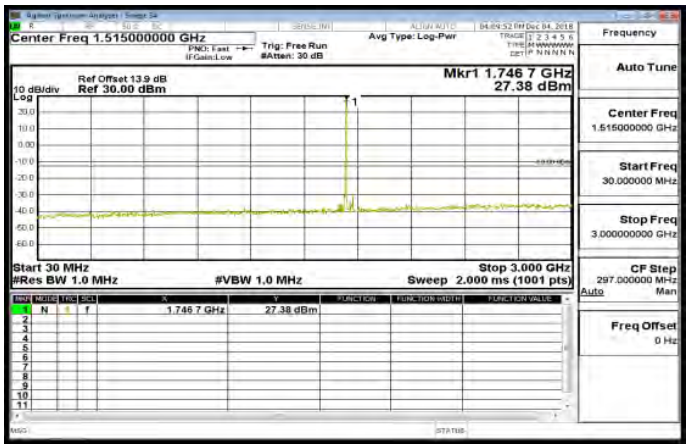
3GHz~10GHz_Band66_3MHz_QPSK_1_0_LowCH131987-1711.5



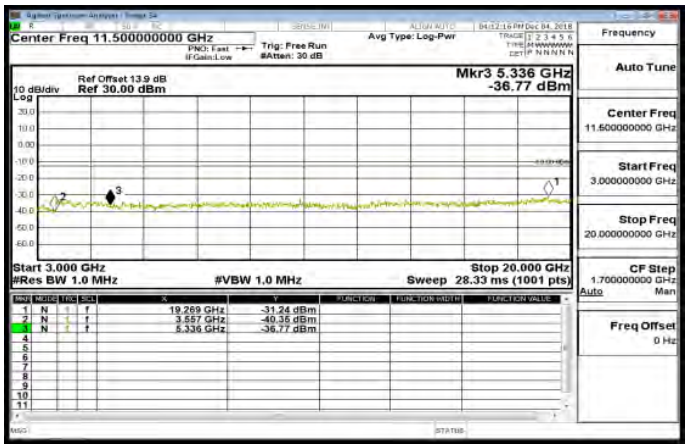
30MHz~3GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5



30MHz~3GHz_Band66_3MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_3MHz_QPSK_1_0_HighCH132657-1778.5



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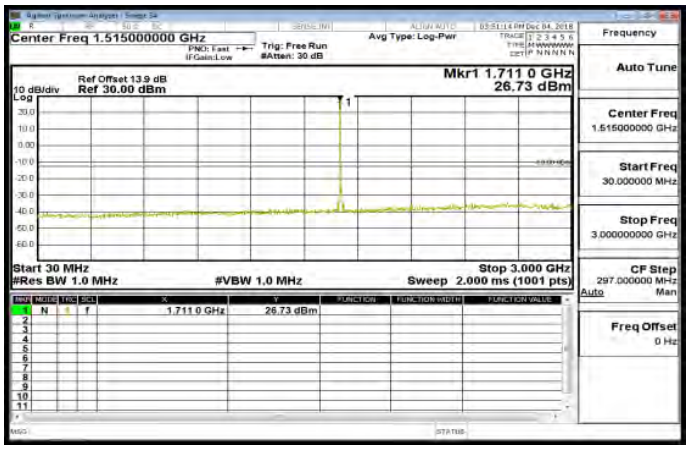
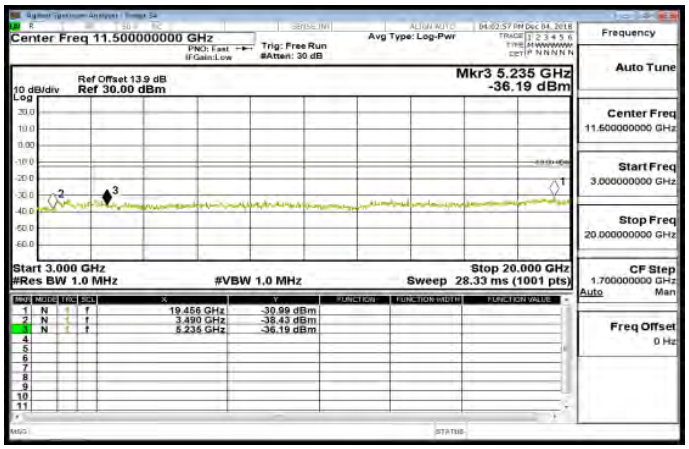
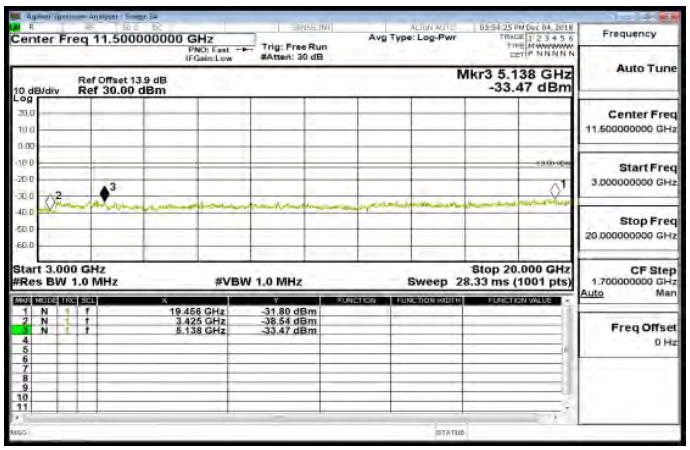
30MHz~3GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5



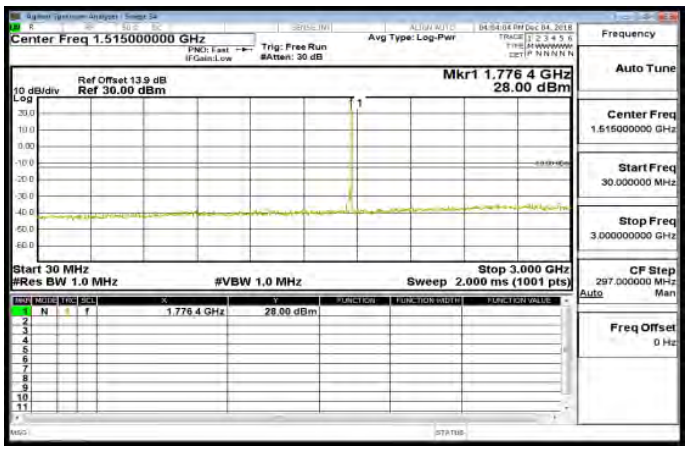
3GHz~10GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745



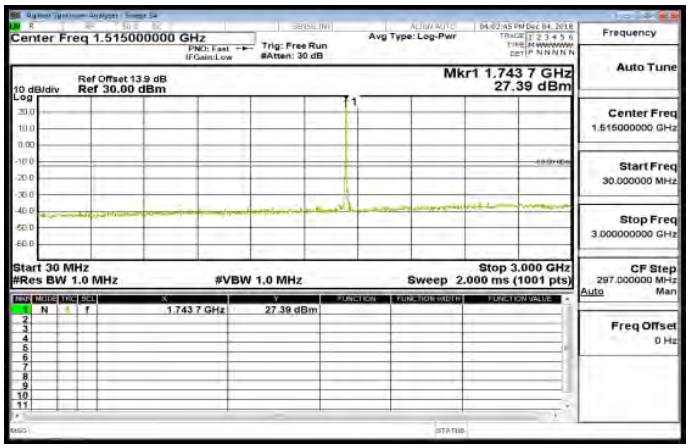
3GHz~10GHz_Band66_5MHz_QPSK_1_0_LowCH131997-1712.5



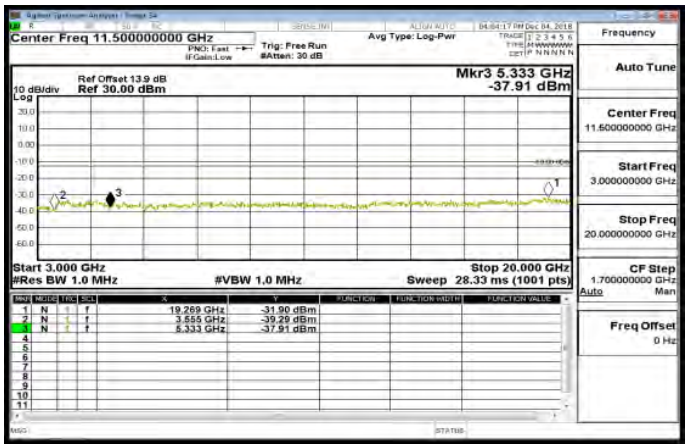
30MHz~3GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5



30MHz~3GHz_Band66_5MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_5MHz_QPSK_1_0_HighCH132647-1777.5



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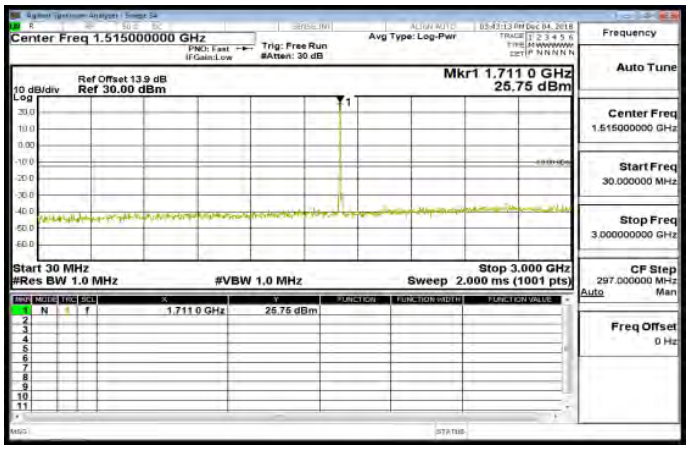
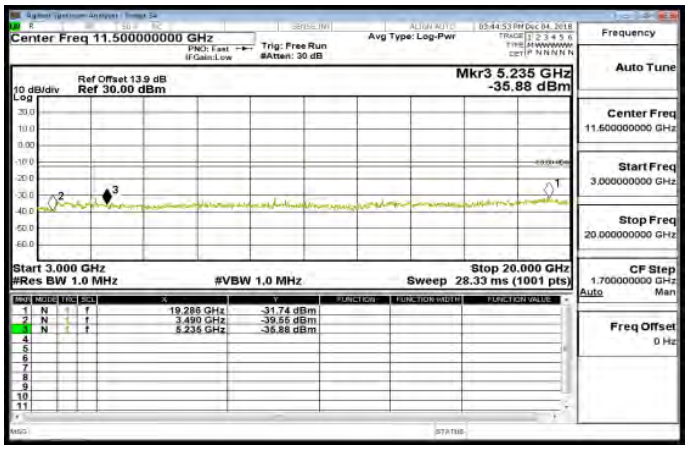
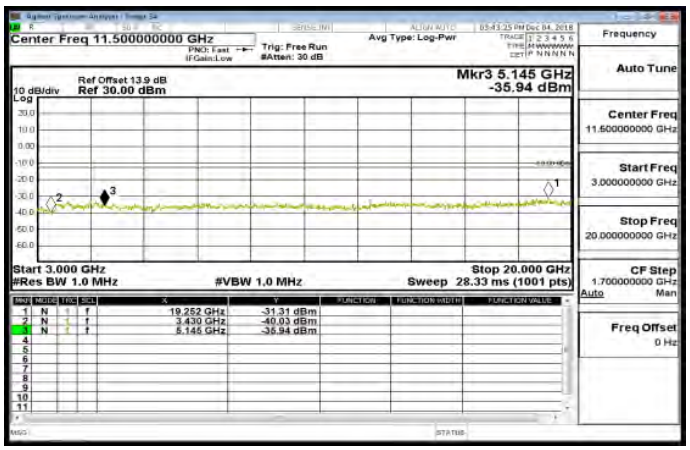
30MHz~3GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715



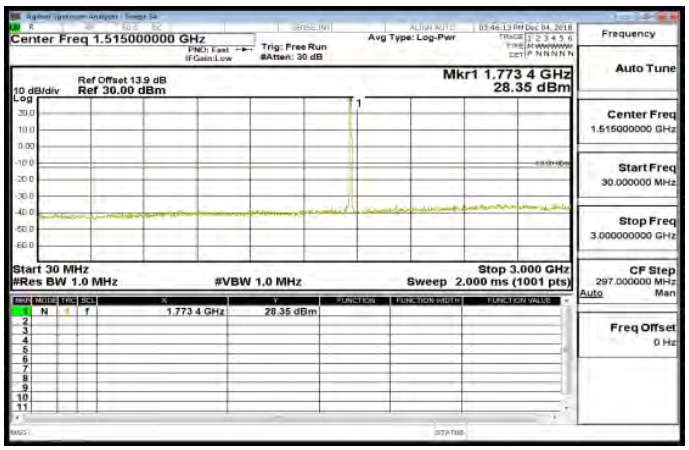
3GHz~10GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745



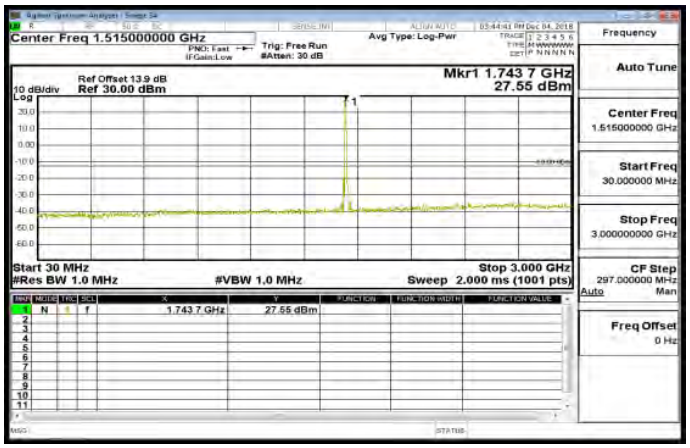
3GHz~10GHz_Band66_10MHz_QPSK_1_0_LowCH132022-1715



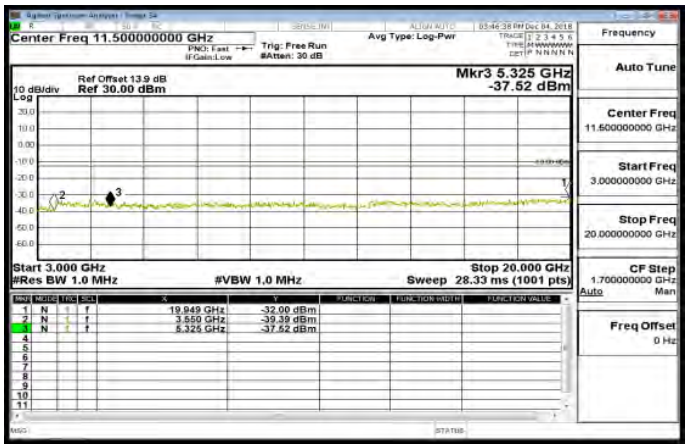
30MHz~3GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775



30MHz~3GHz_Band66_10MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_10MHz_QPSK_1_0_HighCH132622-1775



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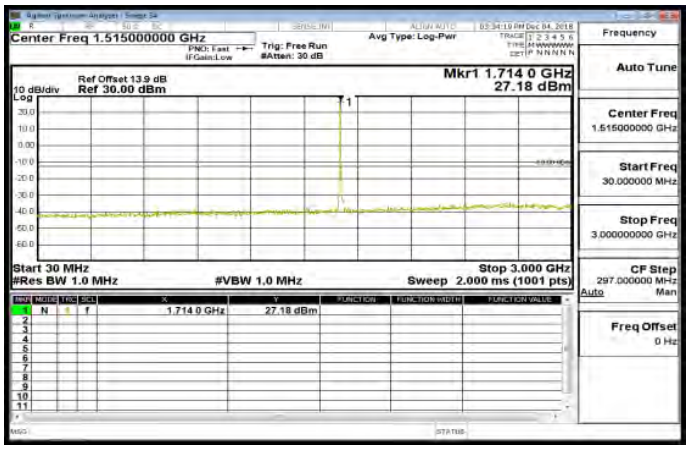
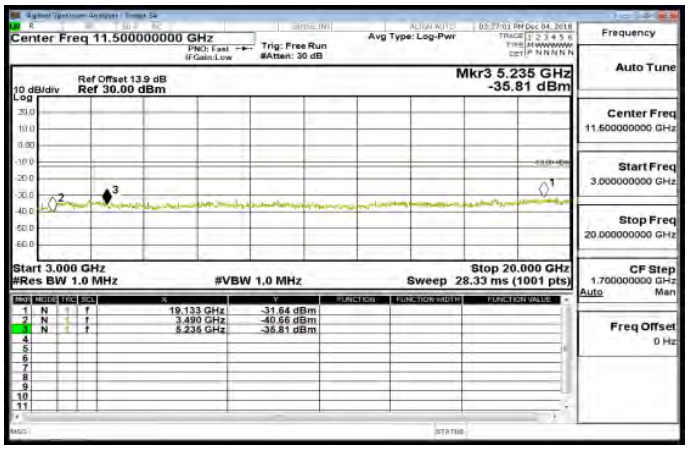
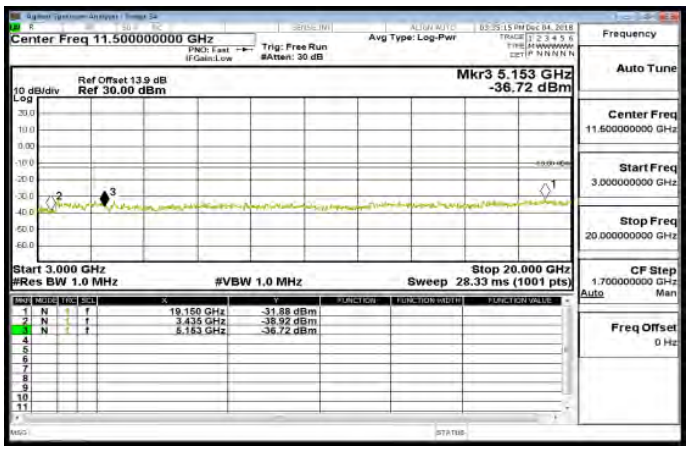
30MHz~3GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5



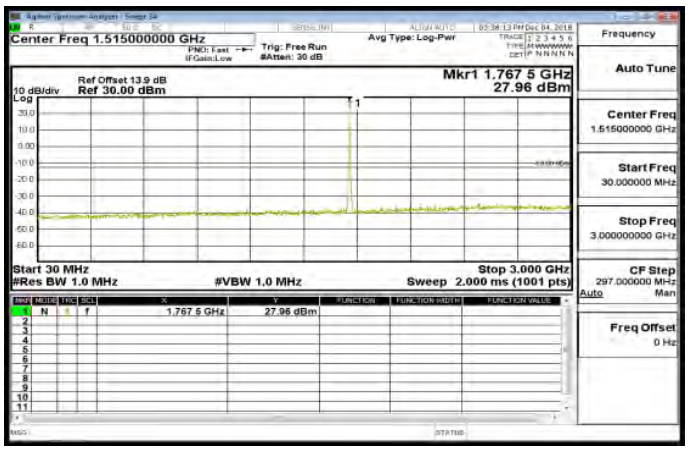
3GHz~10GHz_Band66_15MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_15MHz_QPSK_1_0_LowCH132047-1717.5



30MHz~3GHz_Band66_15MHz_QPSK_1_0_HighCH132597-1772.5



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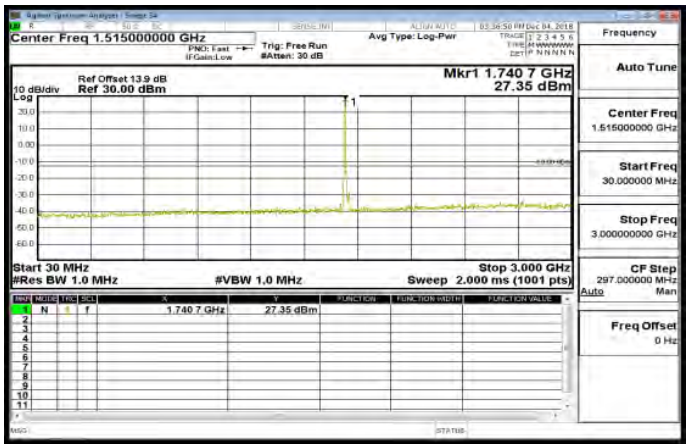

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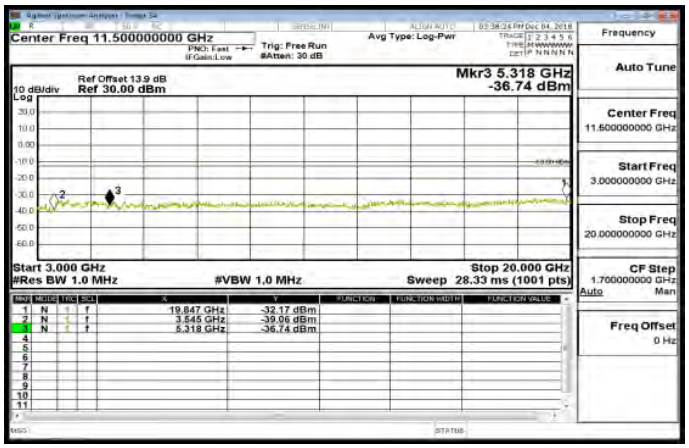

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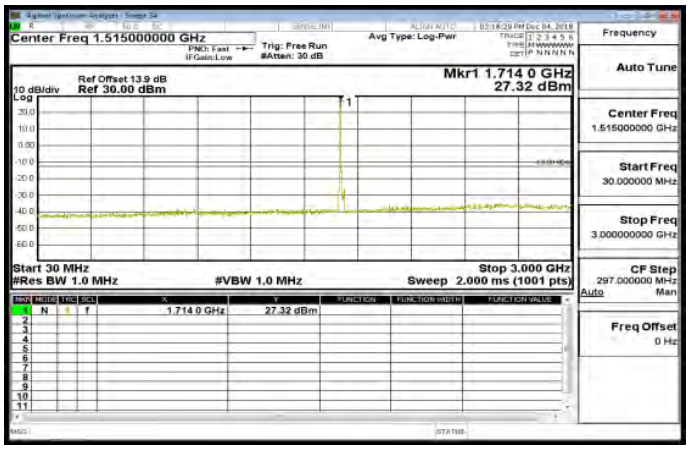
30MHz~3GHz_Band66_20MHz_QPSK_1_0_LowCH132072-1720



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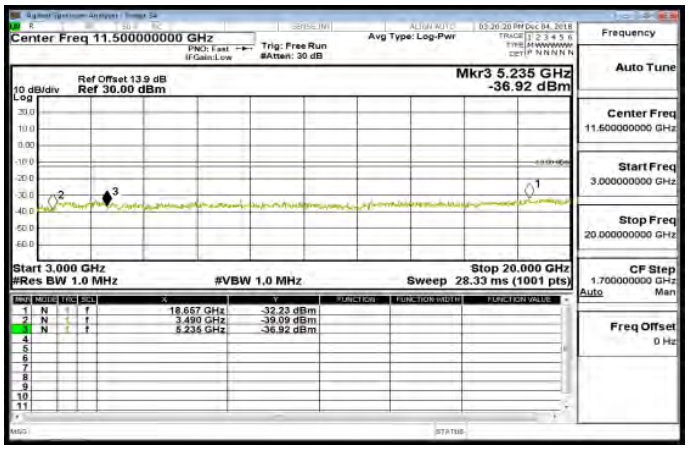

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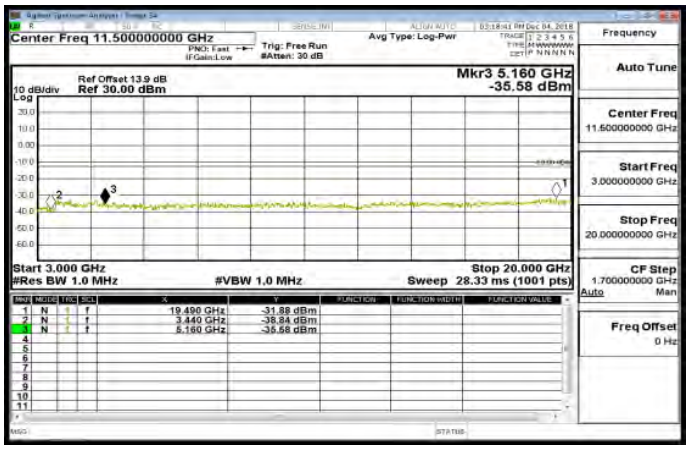

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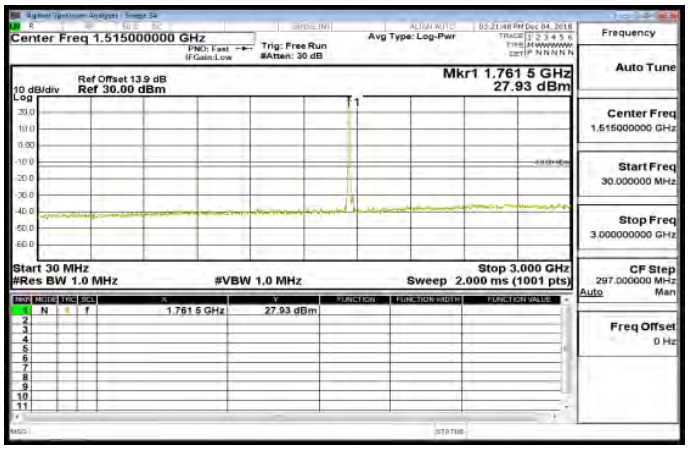
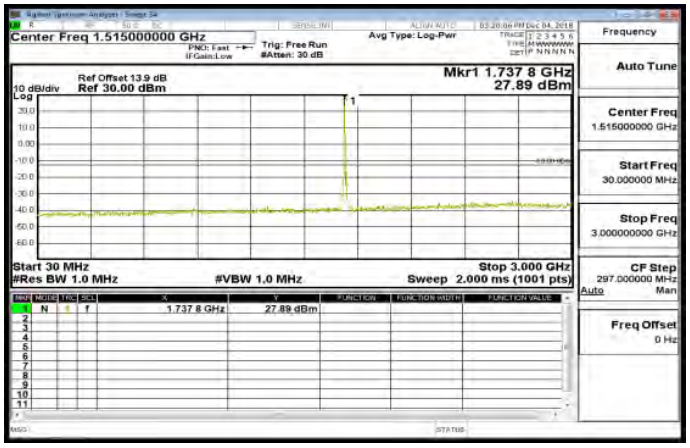
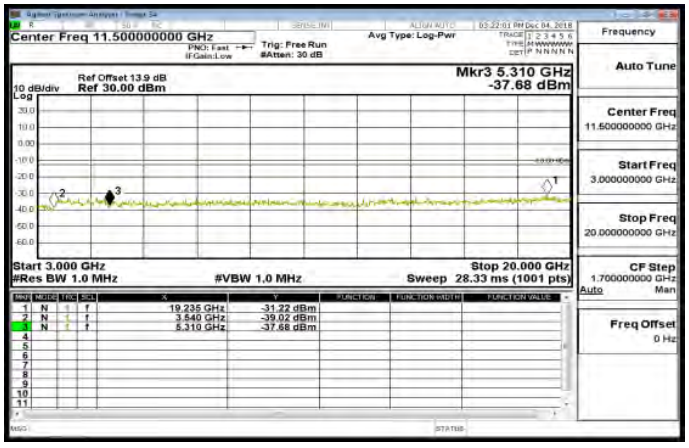


30MHz~3GHz_Band66_20MHz_QPSK_1_0_MidCH132322-1745



3GHz~10GHz_Band66_20MHz_QPSK_1_0_HighCH132572-1770



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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 license's frequency block (-13dBm).

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

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

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

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.

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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 that 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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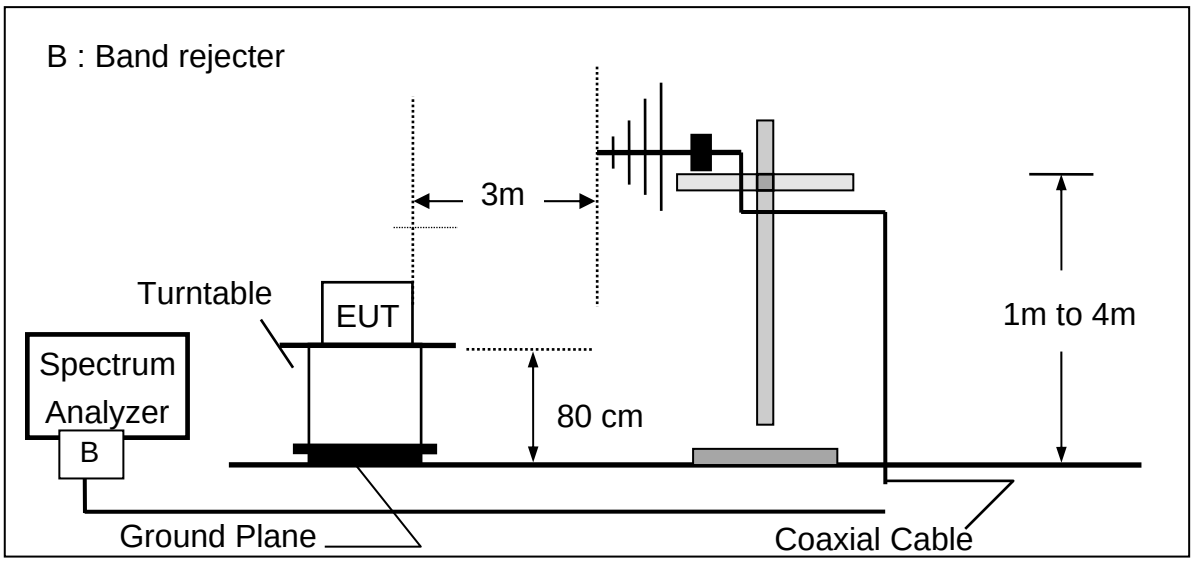
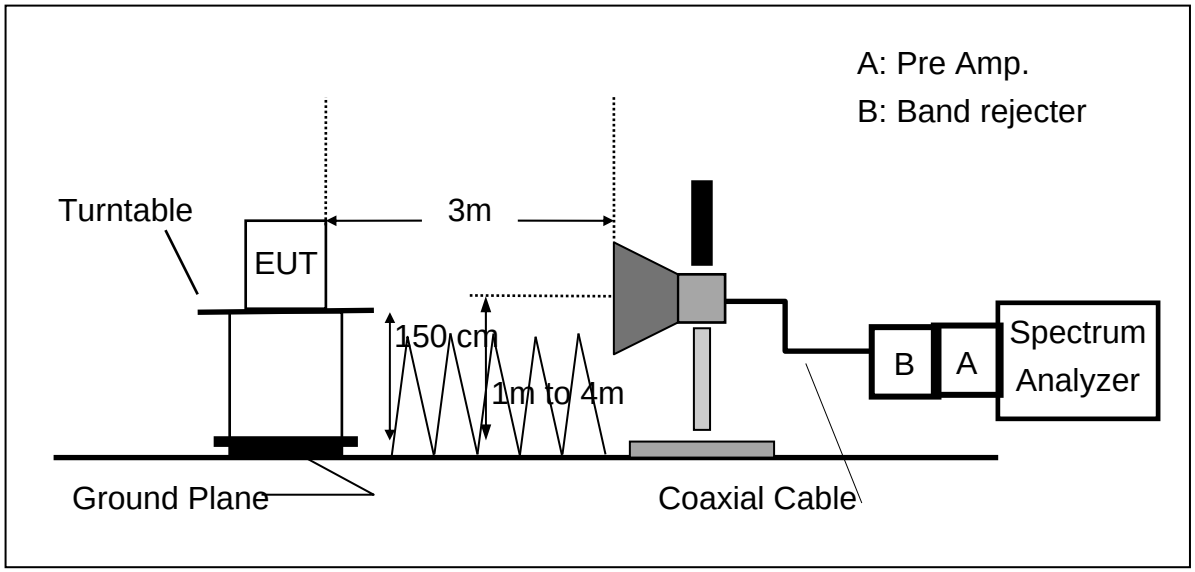
9.2. EUT Setup

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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	2018/10/30	2019/10/29
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Horn Antenna	SCHWAZBECK	BBHA9170	185	2018/08/02	2019/08/01
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Radio Communi-cation Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Radio Communi-cation Analyer	Anritsu	MT8821C	6261786084	2018/01/03	2019/01/02
Pre-Amplifier	EMC Instru-ments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instru-ments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instru-ments	EMC184045B	980135	2018/10/02	2019/10/01
Notch Filter	Woken	EWT-54-0037	RF105	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0038	RF55	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	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	EMC106-SM-SM-9100	150704	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	2017/12/26	2018/12/25

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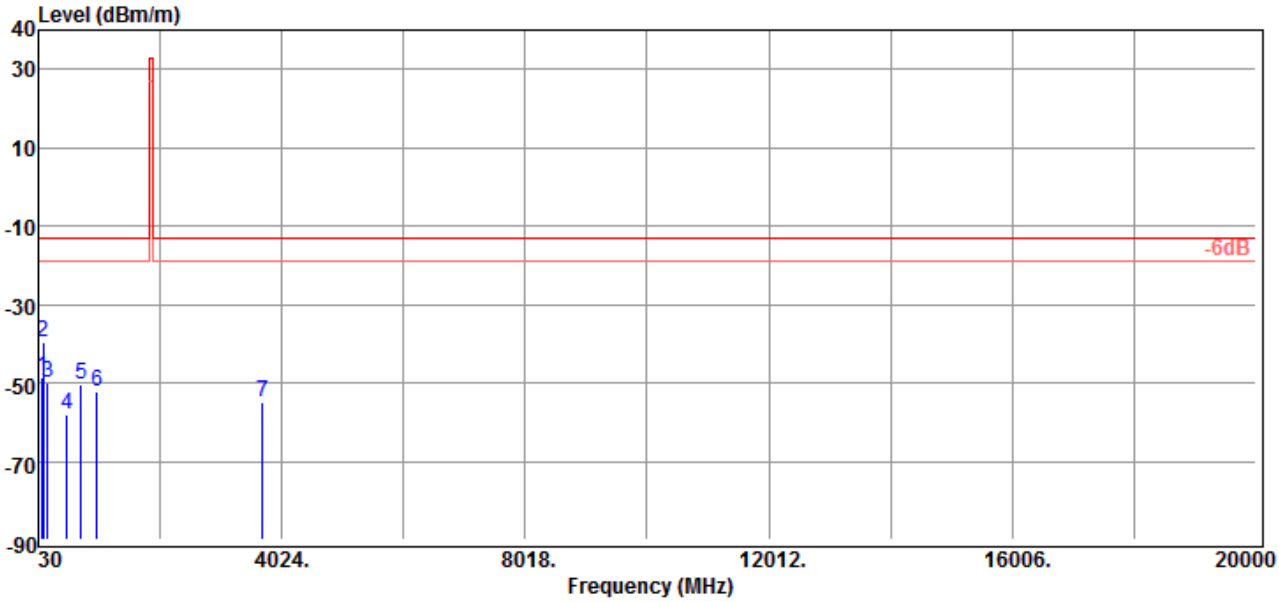
9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
92.08	-48.70	-47.68	-0.20	-0.82	-13.00	-35.70
110.51	-39.68	-38.74	-0.05	-0.89	-13.00	-26.68
180.35	-50.03	-53.52	4.64	-1.15	-13.00	-37.03
499.48	-58.20	-61.88	6.29	-2.61	-13.00	-45.20
730.34	-50.29	-55.52	7.37	-2.14	-13.00	-37.29
998.06	-52.28	-57.10	7.80	-2.98	-13.00	-39.28
3704.80	-54.80	-56.09	12.14	-10.85	-13.00	-41.80

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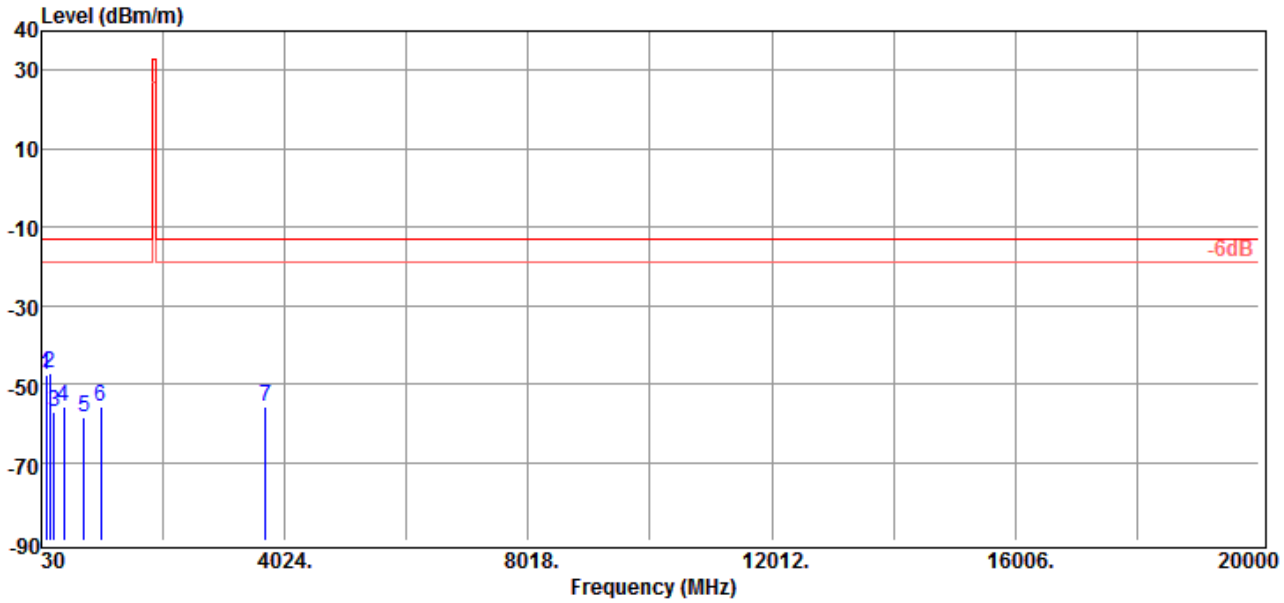
Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-47.72	-46.78	-0.05	-0.89	-13.00	-34.72
173.56	-47.17	-50.26	4.20	-1.11	-13.00	-34.17
244.37	-57.28	-61.10	5.24	-1.42	-13.00	-44.28
403.45	-55.77	-59.32	5.59	-2.04	-13.00	-42.77
729.37	-58.32	-63.54	7.37	-2.15	-13.00	-45.32
999.03	-55.69	-60.52	7.81	-2.98	-13.00	-42.69
3704.80	-55.96	-57.25	12.14	-10.85	-13.00	-42.96

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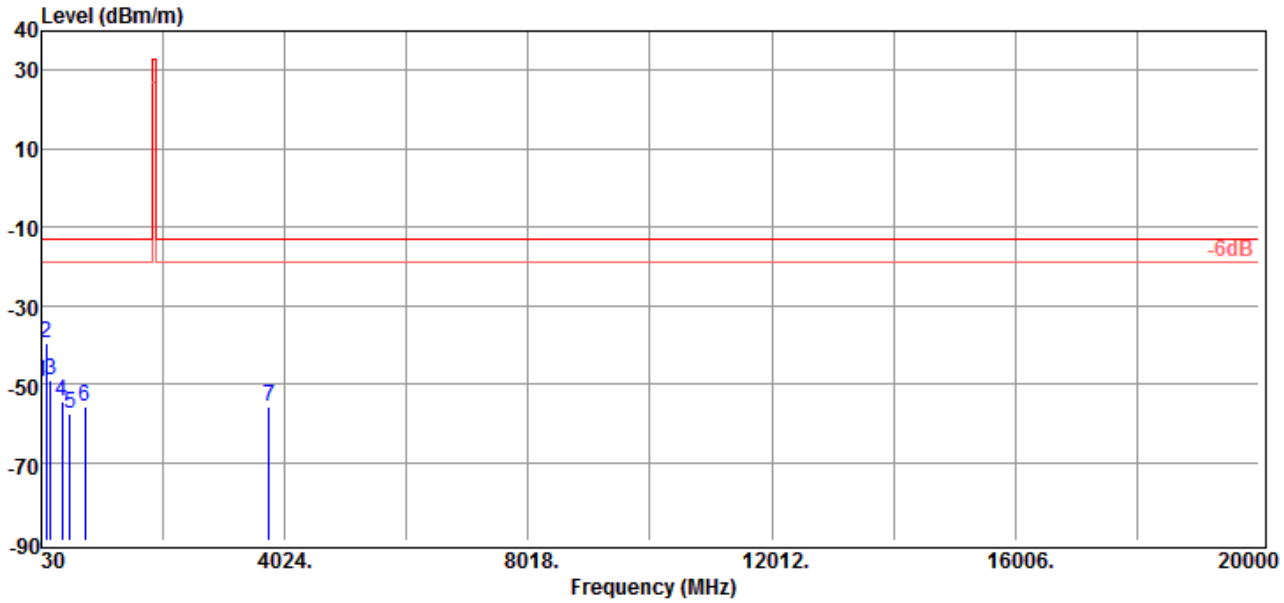
Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-49.50	-39.71	-9.17	-0.62	-13.00	-36.50
110.51	-39.55	-38.61	-0.05	-0.89	-13.00	-26.55
180.35	-49.08	-52.57	4.64	-1.15	-13.00	-36.08
368.53	-54.30	-58.02	5.70	-1.98	-13.00	-41.30
498.51	-57.78	-61.46	6.28	-2.60	-13.00	-44.78
742.95	-55.66	-60.98	7.40	-2.08	-13.00	-42.66
3760.00	-55.66	-56.94	12.15	-10.87	-13.00	-42.66

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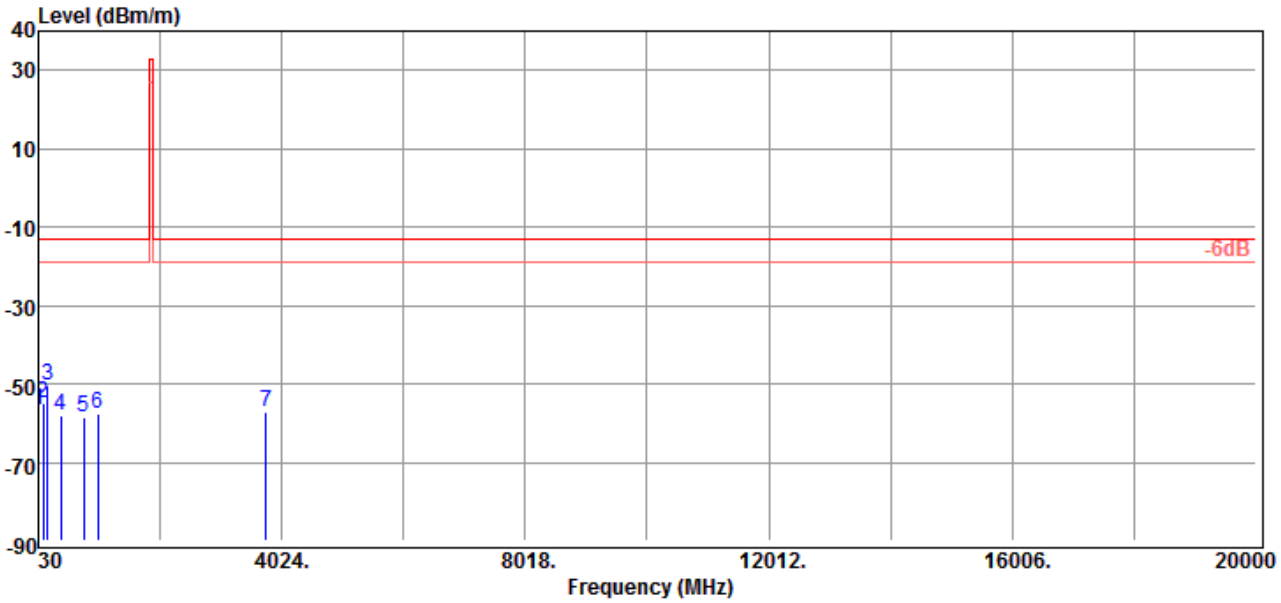
Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.57	-36.08	-20.05	-0.44	-13.00	-43.57
110.51	-54.70	-53.76	-0.05	-0.89	-13.00	-41.70
179.38	-50.29	-53.73	4.58	-1.14	-13.00	-37.29
398.60	-57.89	-61.41	5.56	-2.04	-13.00	-44.89
776.90	-58.38	-63.62	7.50	-2.26	-13.00	-45.38
999.03	-57.73	-62.56	7.81	-2.98	-13.00	-44.73
3760.00	-56.97	-58.25	12.15	-10.87	-13.00	-43.97

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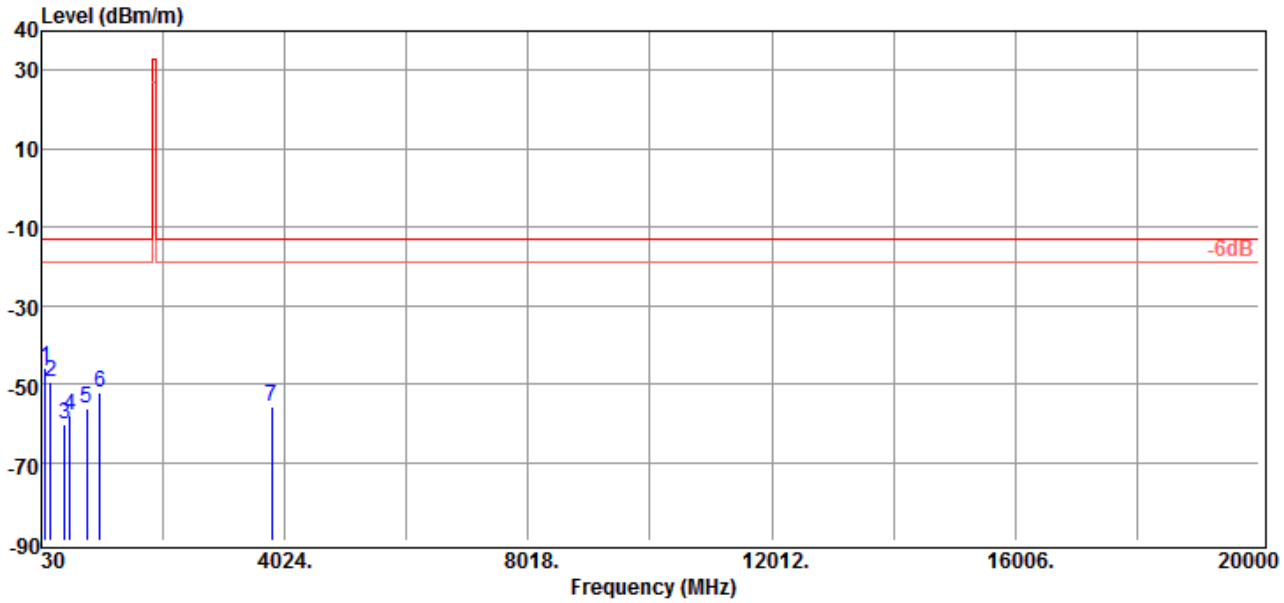
Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
99.84	-45.79	-44.05	-0.88	-0.86	-13.00	-32.79
179.38	-49.64	-53.08	4.58	-1.14	-13.00	-36.64
412.18	-60.30	-63.94	5.68	-2.04	-13.00	-47.30
498.51	-58.07	-61.75	6.28	-2.60	-13.00	-45.07
776.90	-56.34	-61.58	7.50	-2.26	-13.00	-43.34
998.06	-52.38	-57.20	7.80	-2.98	-13.00	-39.38
3815.20	-55.81	-57.08	12.16	-10.89	-13.00	-42.81

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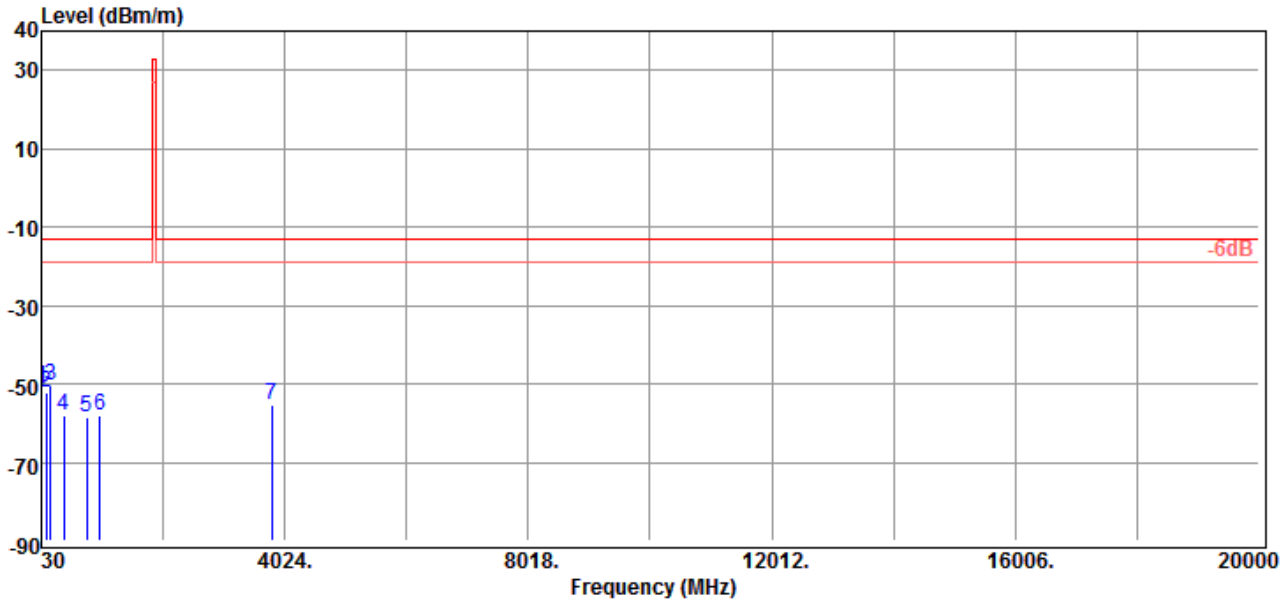
Operation Mode	:WCDMA B2	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-51.01	-41.22	-9.17	-0.62	-13.00	-38.01
110.51	-52.20	-51.26	-0.05	-0.89	-13.00	-39.20
175.50	-50.43	-53.64	4.33	-1.12	-13.00	-37.43
392.78	-57.90	-61.45	5.58	-2.03	-13.00	-44.90
770.11	-58.37	-63.64	7.48	-2.21	-13.00	-45.37
997.09	-57.97	-62.80	7.80	-2.97	-13.00	-44.97
3815.20	-55.46	-56.73	12.16	-10.89	-13.00	-42.46

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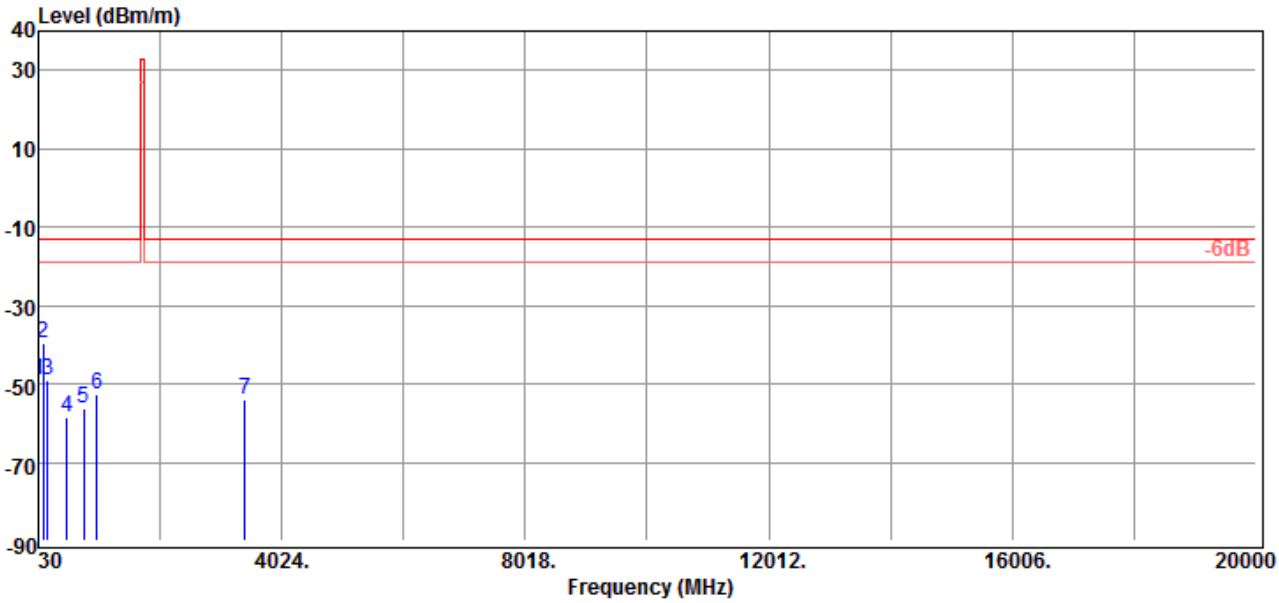
Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode	:WCDMA B4	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1712.4 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	-49.19	-39.40	-9.17	-0.62	-13.00	-36.19
111.48	-39.63	-38.76	0.03	-0.90	-13.00	-26.63
179.38	-49.20	-52.64	4.58	-1.14	-13.00	-36.20
499.48	-58.30	-61.98	6.29	-2.61	-13.00	-45.30
777.87	-56.49	-61.72	7.50	-2.27	-13.00	-43.49
996.12	-52.64	-57.47	7.80	-2.97	-13.00	-39.64
3424.80	-54.03	-55.21	11.93	-10.75	-13.00	-41.03

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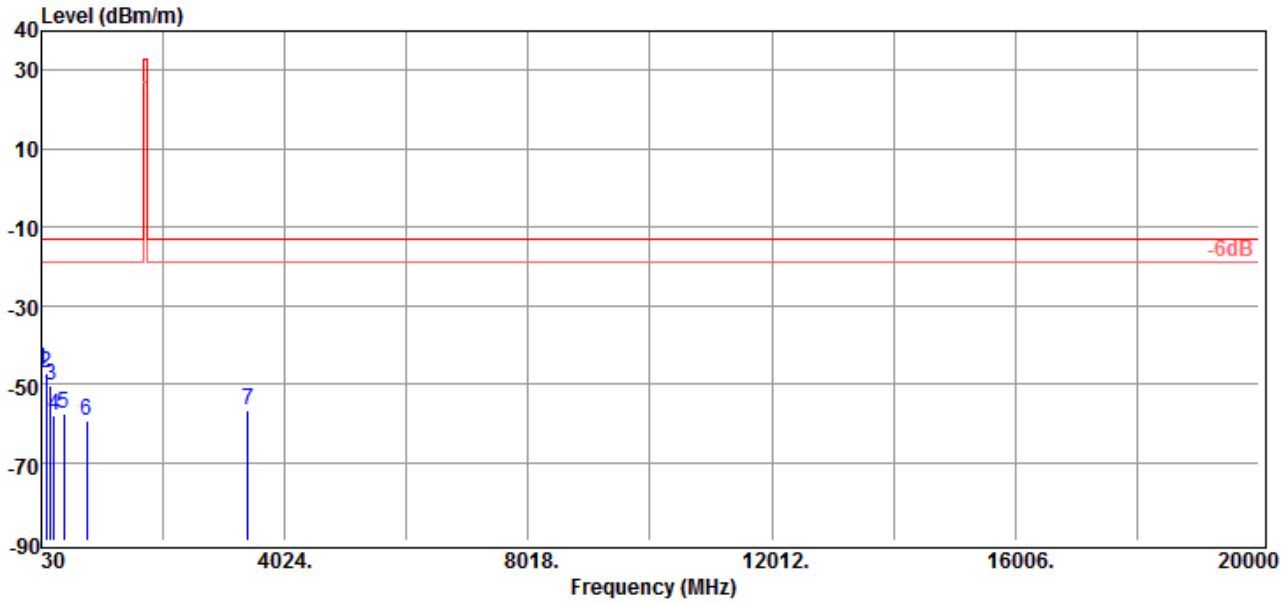
Operation Mode	:WCDMA B4	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1712.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-46.46	-36.67	-9.17	-0.62	-13.00	-33.46
109.54	-47.07	-46.06	-0.12	-0.89	-13.00	-34.07
179.38	-50.51	-53.95	4.58	-1.14	-13.00	-37.51
246.31	-58.13	-61.91	5.21	-1.43	-13.00	-45.13
398.60	-57.47	-60.99	5.56	-2.04	-13.00	-44.47
776.90	-59.59	-64.83	7.50	-2.26	-13.00	-46.59
3424.80	-56.61	-57.79	11.93	-10.75	-13.00	-43.61

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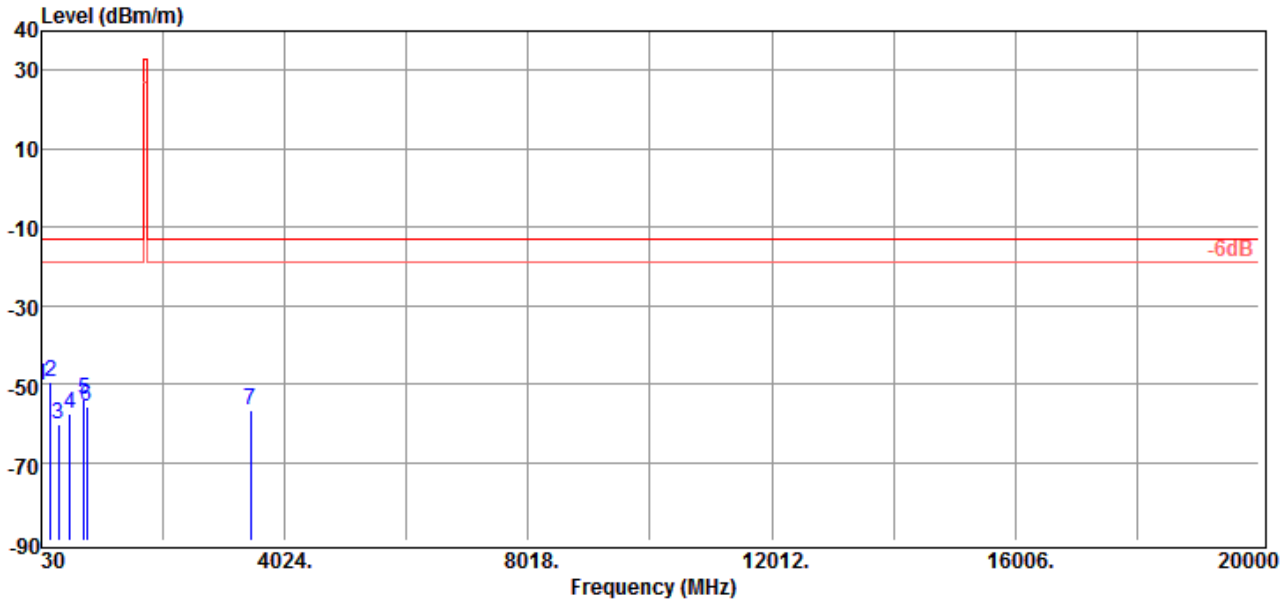
Operation Mode	:WCDMA B4	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-50.55	-34.20	-15.83	-0.52	-13.00	-37.55
179.38	-49.31	-52.75	4.58	-1.14	-13.00	-36.31
306.45	-60.31	-64.49	5.84	-1.66	-13.00	-47.31
498.51	-57.57	-61.25	6.28	-2.60	-13.00	-44.57
734.22	-54.05	-59.30	7.38	-2.13	-13.00	-41.05
777.87	-55.62	-60.85	7.50	-2.27	-13.00	-42.62
3465.20	-56.80	-58.05	12.02	-10.77	-13.00	-43.80

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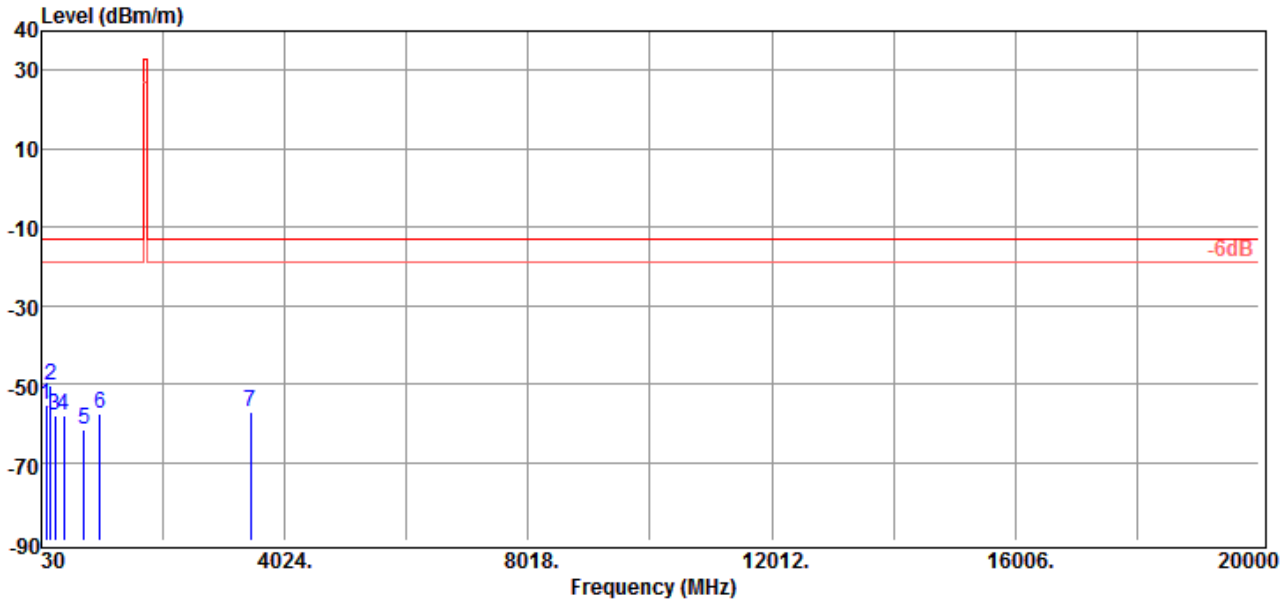
Operation Mode	:WCDMA B4	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-55.29	-54.20	-0.20	-0.89	-13.00	-42.29
178.41	-50.50	-53.88	4.52	-1.14	-13.00	-37.50
250.19	-57.91	-61.64	5.17	-1.44	-13.00	-44.91
404.42	-58.01	-61.57	5.60	-2.04	-13.00	-45.01
734.22	-61.51	-66.76	7.38	-2.13	-13.00	-48.51
998.06	-57.41	-62.23	7.80	-2.98	-13.00	-44.41
3465.20	-57.32	-58.57	12.02	-10.77	-13.00	-44.32

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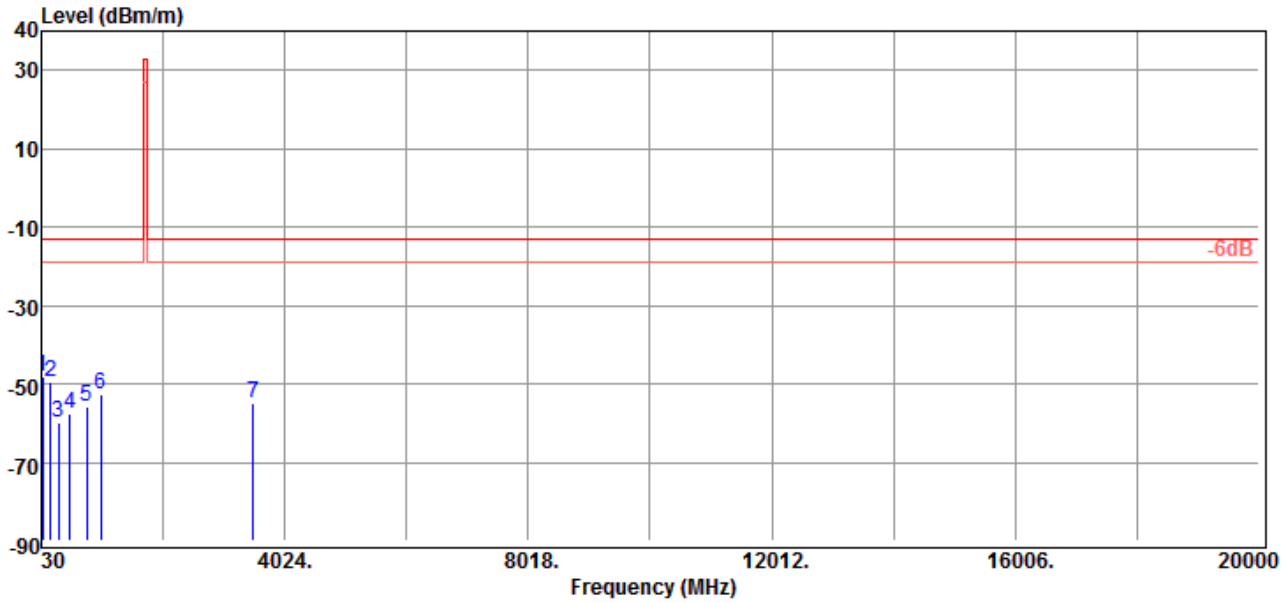
Operation Mode	:WCDMA B4	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1752.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
56.19	-48.07	-45.19	-2.23	-0.65	-13.00	-35.07
179.38	-49.52	-52.96	4.58	-1.14	-13.00	-36.52
312.27	-59.71	-63.84	5.83	-1.70	-13.00	-46.71
499.48	-57.62	-61.30	6.29	-2.61	-13.00	-44.62
776.90	-55.66	-60.90	7.50	-2.26	-13.00	-42.66
999.03	-52.88	-57.71	7.81	-2.98	-13.00	-39.88
3505.20	-54.75	-56.07	12.10	-10.78	-13.00	-41.75

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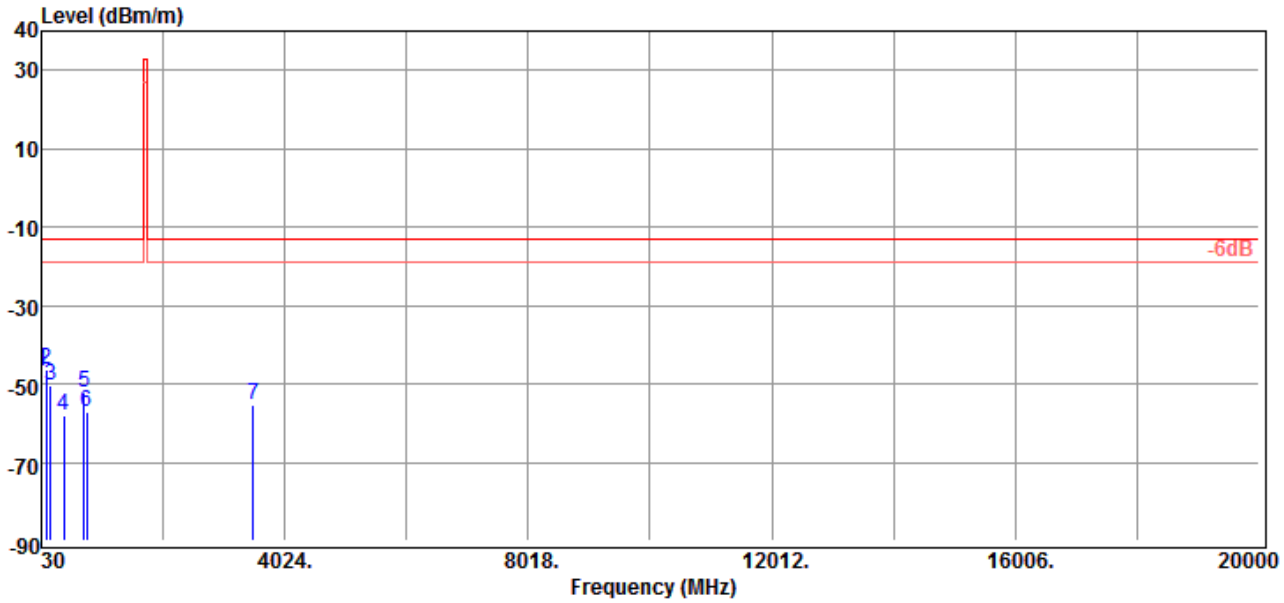
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1752.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-46.78	-36.27	-9.90	-0.61	-13.00	-33.78
109.54	-46.49	-45.48	-0.12	-0.89	-13.00	-33.49
178.41	-50.39	-53.77	4.52	-1.14	-13.00	-37.39
398.60	-57.88	-61.40	5.56	-2.04	-13.00	-44.88
726.46	-52.05	-57.25	7.36	-2.16	-13.00	-39.05
776.90	-57.24	-62.48	7.50	-2.26	-13.00	-44.24
3505.20	-55.25	-56.57	12.10	-10.78	-13.00	-42.25

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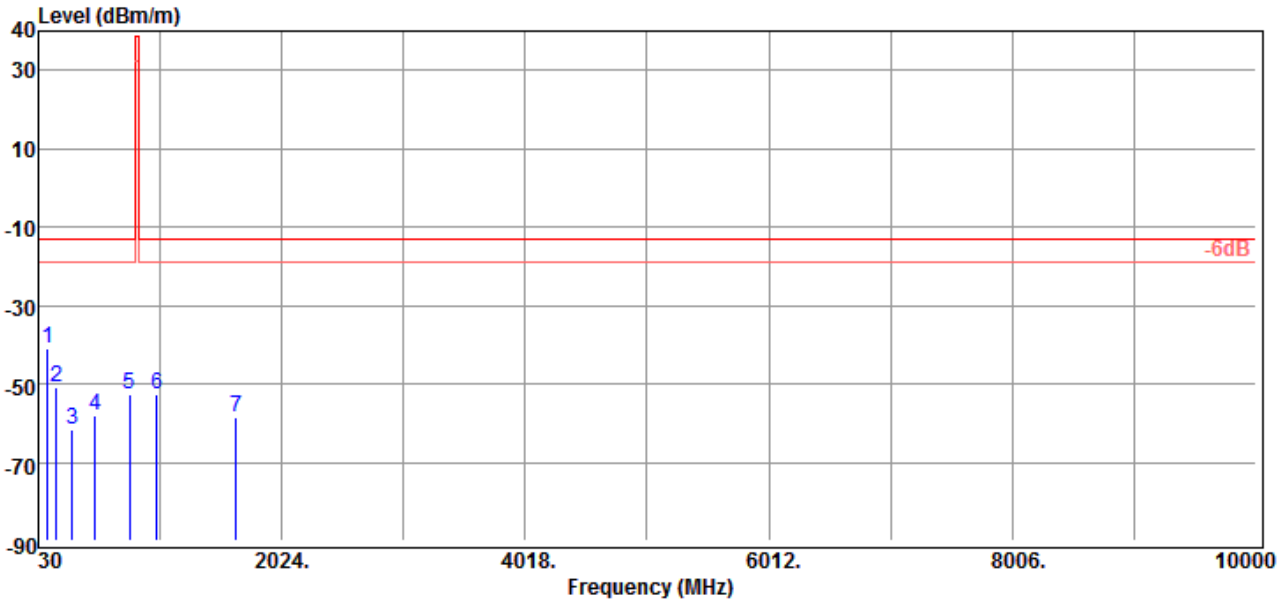
Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:826.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-41.13	-39.75	-0.50	-0.88	-13.00	-28.13
179.38	-50.75	-54.19	4.58	-1.14	-13.00	-37.75
311.30	-61.81	-65.96	5.84	-1.69	-13.00	-48.81
497.54	-58.15	-61.84	6.28	-2.59	-13.00	-45.15
777.87	-52.51	-57.74	7.50	-2.27	-13.00	-39.51
999.03	-52.66	-57.49	7.81	-2.98	-13.00	-39.66
1652.80	-58.70	-59.94	8.57	-7.33	-13.00	-45.70

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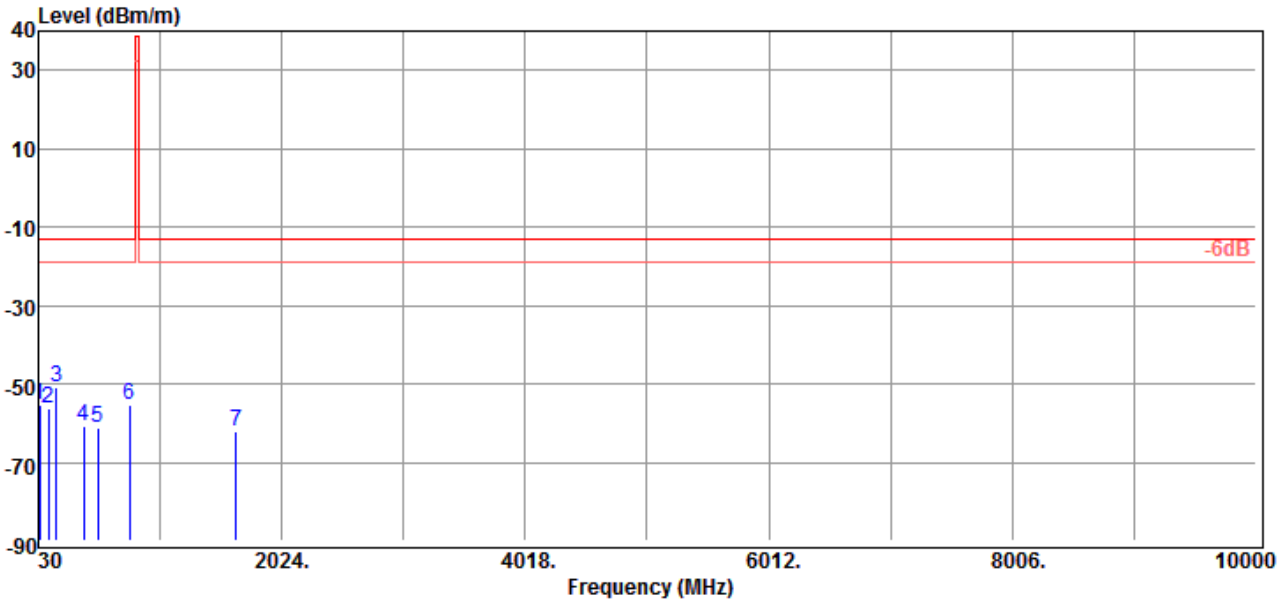
Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:826.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-55.33	-45.54	-9.17	-0.62	-13.00	-42.33
110.51	-56.07	-55.13	-0.05	-0.89	-13.00	-43.07
178.41	-50.74	-54.12	4.52	-1.14	-13.00	-37.74
398.60	-60.54	-64.06	5.56	-2.04	-13.00	-47.54
517.91	-61.17	-64.91	6.26	-2.52	-13.00	-48.17
776.90	-55.52	-60.76	7.50	-2.26	-13.00	-42.52
1652.80	-62.23	-63.47	8.57	-7.33	-13.00	-49.23

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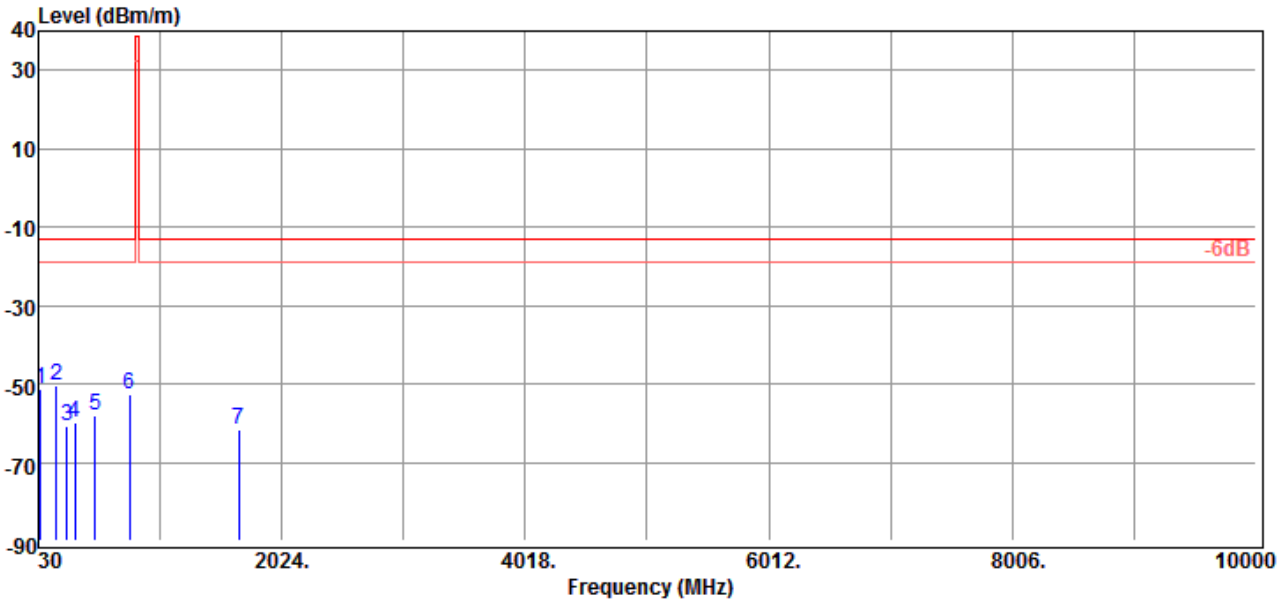
Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-51.21	-42.13	-8.45	-0.63	-13.00	-38.21
177.44	-50.63	-53.96	4.46	-1.13	-13.00	-37.63
264.74	-60.73	-64.62	5.38	-1.49	-13.00	-47.73
329.73	-59.90	-63.89	5.81	-1.82	-13.00	-46.90
498.51	-58.26	-61.94	6.28	-2.60	-13.00	-45.26
776.90	-52.45	-57.69	7.50	-2.26	-13.00	-39.45
1673.20	-61.60	-62.84	8.66	-7.42	-13.00	-48.60

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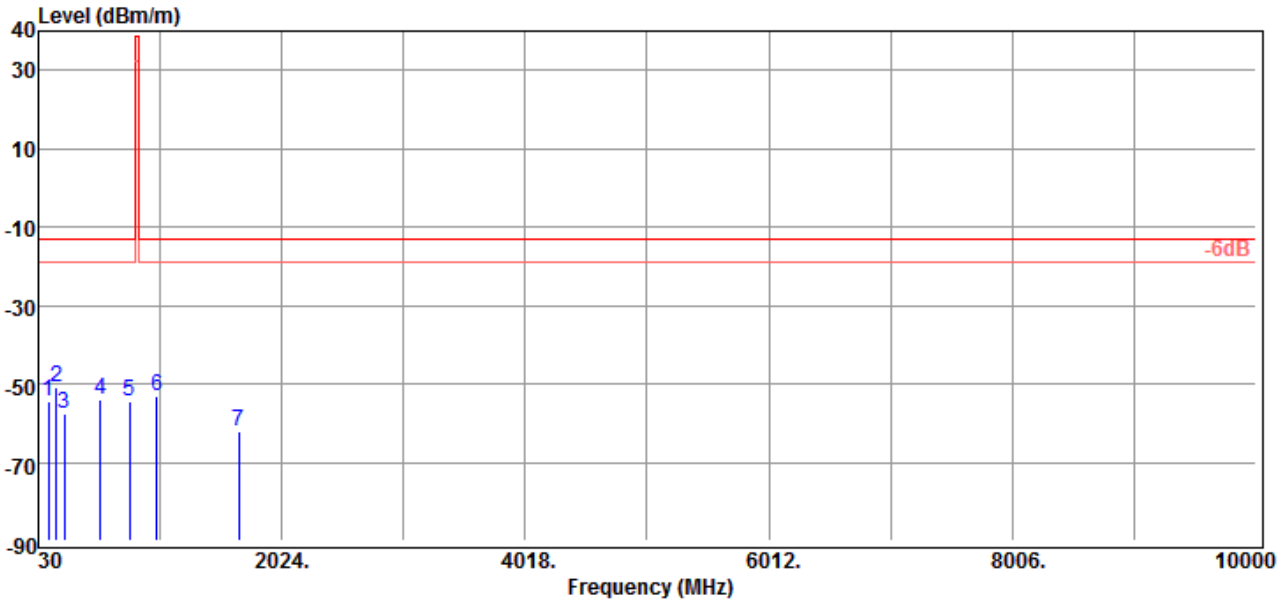
Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-54.26	-53.39	0.03	-0.90	-13.00	-41.26
177.44	-50.92	-54.25	4.46	-1.13	-13.00	-37.92
242.43	-57.67	-61.52	5.26	-1.41	-13.00	-44.67
538.28	-53.99	-57.82	6.24	-2.41	-13.00	-40.99
776.90	-54.65	-59.89	7.50	-2.26	-13.00	-41.65
997.09	-53.09	-57.92	7.80	-2.97	-13.00	-40.09
1673.20	-61.98	-63.22	8.66	-7.42	-13.00	-48.98

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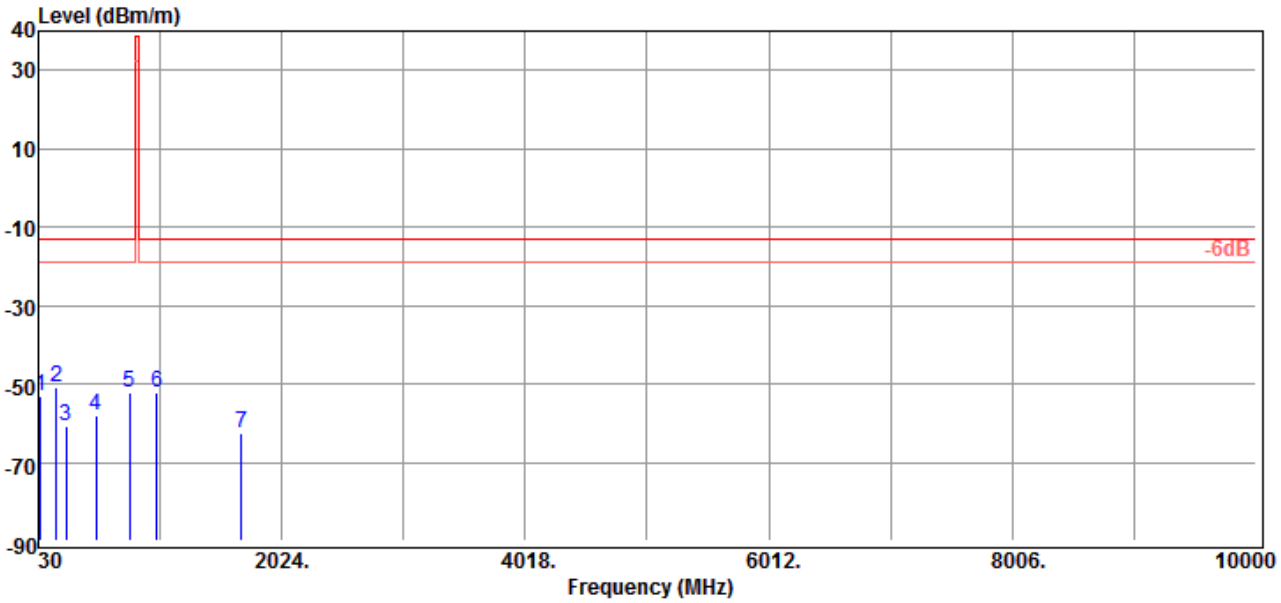
Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-52.99	-44.60	-7.76	-0.63	-13.00	-39.99
180.35	-50.70	-54.19	4.64	-1.15	-13.00	-37.70
256.01	-60.78	-64.58	5.26	-1.46	-13.00	-47.78
499.48	-58.03	-61.71	6.29	-2.61	-13.00	-45.03
776.90	-52.23	-57.47	7.50	-2.26	-13.00	-39.23
998.06	-52.24	-57.06	7.80	-2.98	-13.00	-39.24
1693.20	-62.54	-63.78	8.74	-7.50	-13.00	-49.54

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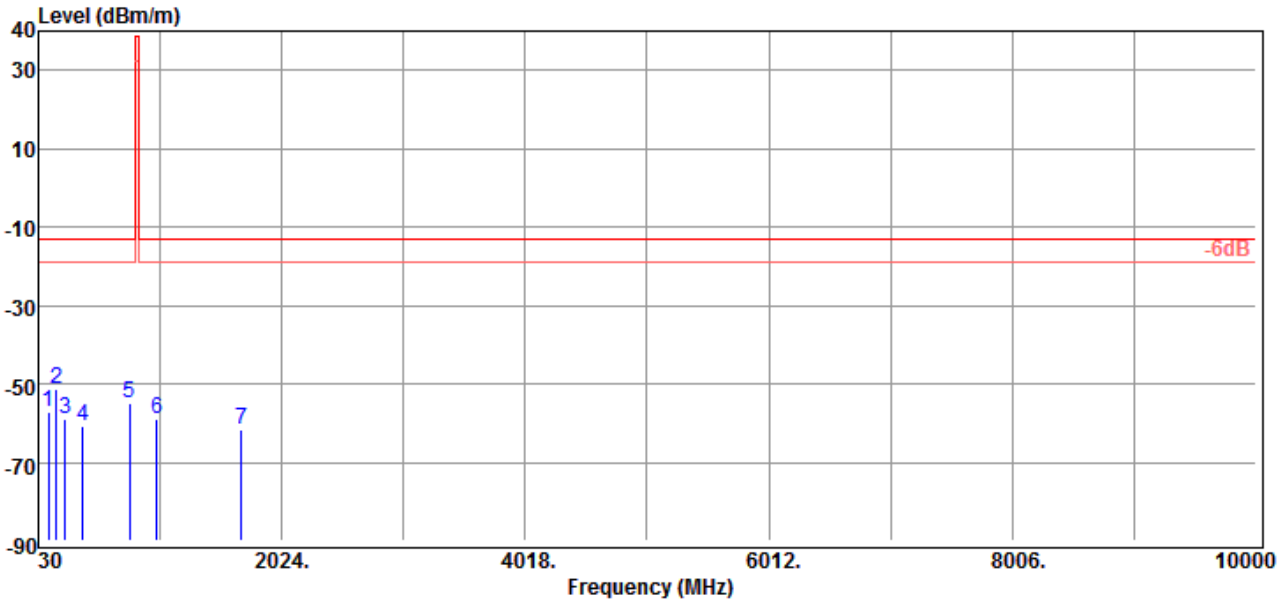
Operation Mode	:WCDMA B5	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-57.22	-56.28	-0.05	-0.89	-13.00	-44.22
177.44	-51.53	-54.86	4.46	-1.13	-13.00	-38.53
252.13	-58.80	-62.55	5.20	-1.45	-13.00	-45.80
396.66	-60.69	-64.23	5.57	-2.03	-13.00	-47.69
777.87	-55.10	-60.33	7.50	-2.27	-13.00	-42.10
1000.00	-58.86	-63.68	7.81	-2.99	-13.00	-45.86
1693.20	-61.77	-63.01	8.74	-7.50	-13.00	-48.77

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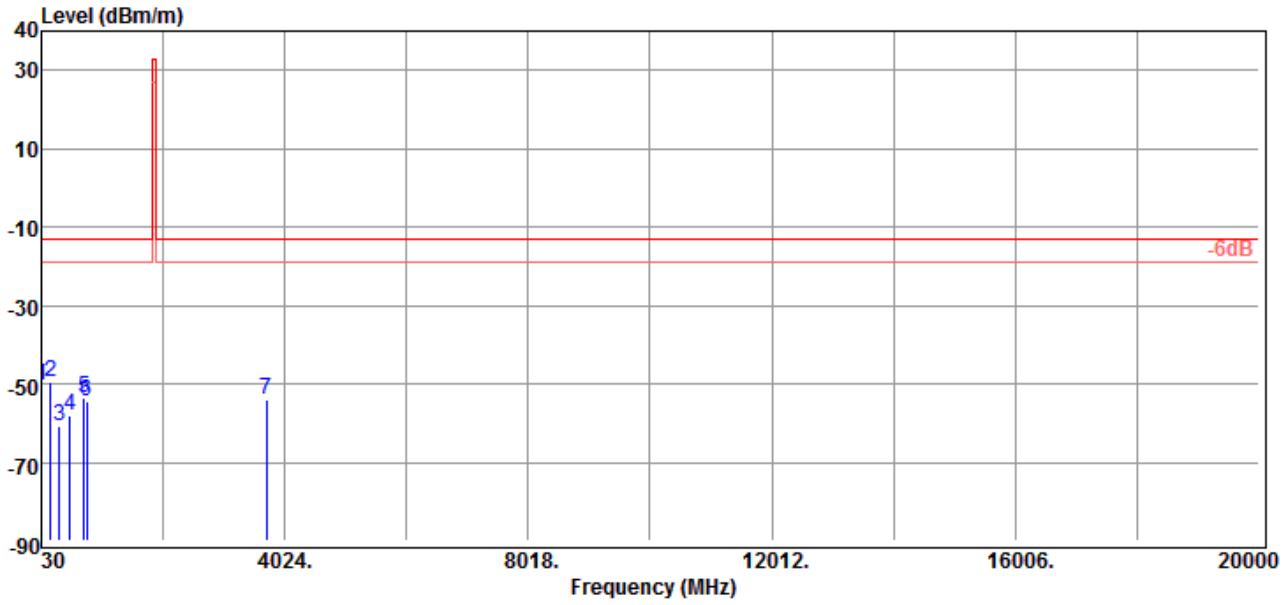
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
34.85	-50.34	-33.99	-15.83	-0.52	-13.00	-37.34
180.35	-49.40	-52.89	4.64	-1.15	-13.00	-36.40
322.94	-60.78	-64.83	5.82	-1.77	-13.00	-47.78
499.48	-58.17	-61.85	6.29	-2.61	-13.00	-45.17
735.19	-53.73	-58.99	7.38	-2.12	-13.00	-40.73
777.87	-54.34	-59.57	7.50	-2.27	-13.00	-41.34
3720.00	-54.19	-55.48	12.15	-10.86	-13.00	-41.19

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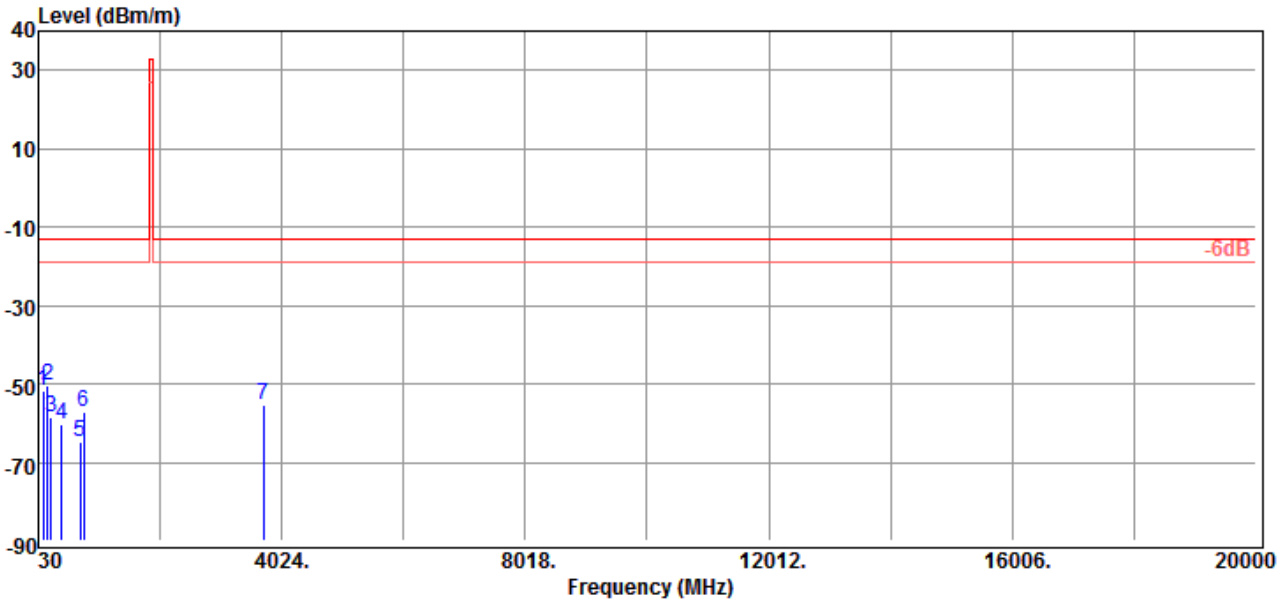
Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-51.88	-50.87	-0.12	-0.89	-13.00	-38.88
179.38	-50.63	-54.07	4.58	-1.14	-13.00	-37.63
245.34	-58.46	-62.27	5.23	-1.42	-13.00	-45.46
413.15	-60.31	-63.95	5.69	-2.05	-13.00	-47.31
711.91	-64.92	-70.02	7.33	-2.23	-13.00	-51.92
776.90	-57.24	-62.48	7.50	-2.26	-13.00	-44.24
3720.00	-55.19	-56.48	12.15	-10.86	-13.00	-42.19

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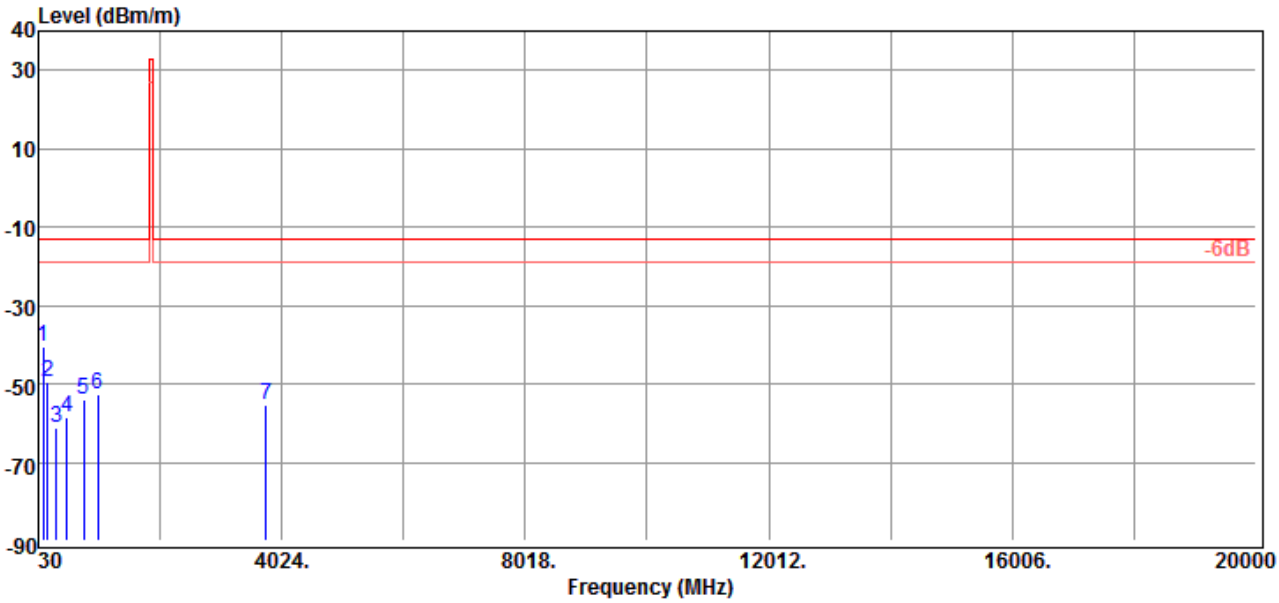
Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-40.38	-39.44	-0.05	-0.89	-13.00	-27.38
179.38	-49.52	-52.96	4.58	-1.14	-13.00	-36.52
329.73	-61.04	-65.03	5.81	-1.82	-13.00	-48.04
498.51	-58.53	-62.21	6.28	-2.60	-13.00	-45.53
776.90	-54.19	-59.43	7.50	-2.26	-13.00	-41.19
1000.00	-52.76	-57.58	7.81	-2.99	-13.00	-39.76
3760.00	-55.28	-56.56	12.15	-10.87	-13.00	-42.28

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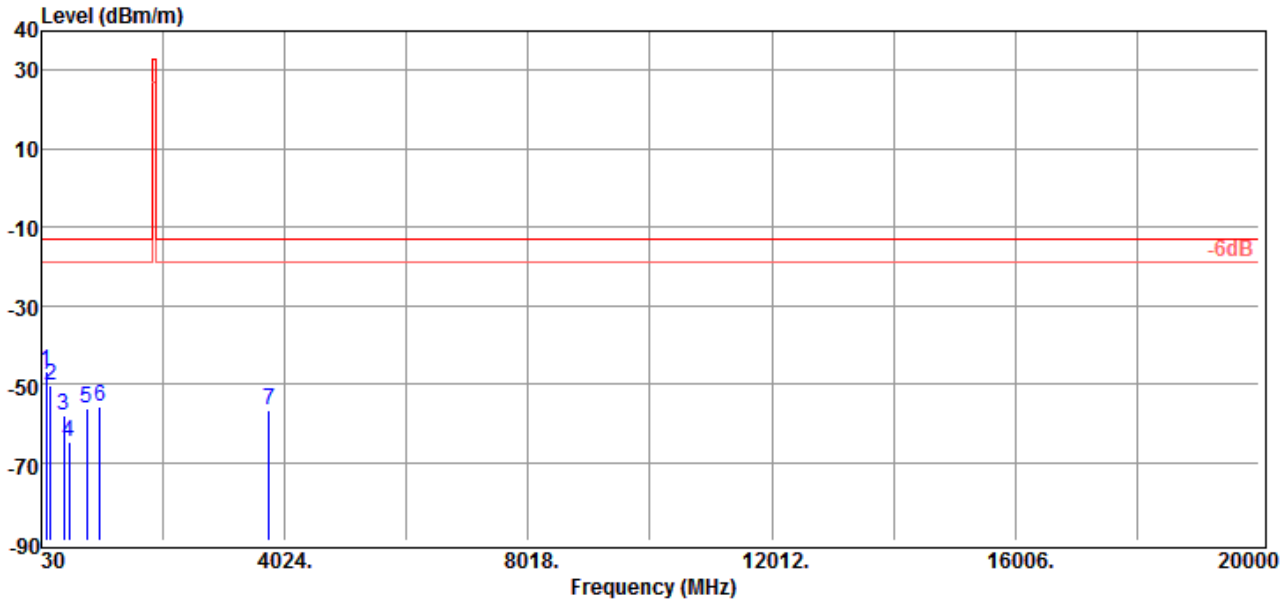
Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-46.98	-46.04	-0.05	-0.89	-13.00	-33.98
178.41	-50.25	-53.63	4.52	-1.14	-13.00	-37.25
391.81	-57.94	-61.50	5.59	-2.03	-13.00	-44.94
486.87	-64.61	-68.37	6.23	-2.47	-13.00	-51.61
776.90	-56.39	-61.63	7.50	-2.26	-13.00	-43.39
996.12	-55.81	-60.64	7.80	-2.97	-13.00	-42.81
3760.00	-56.70	-57.98	12.15	-10.87	-13.00	-43.70

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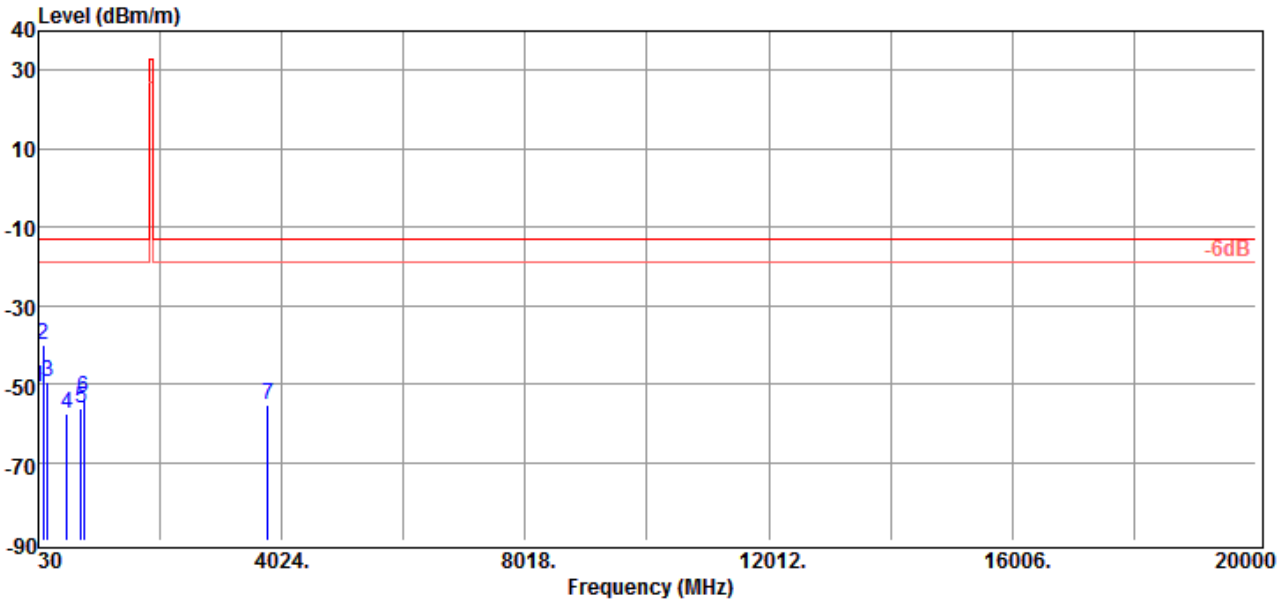
Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-50.82	-33.69	-16.63	-0.50	-13.00	-37.82
110.51	-40.21	-39.27	-0.05	-0.89	-13.00	-27.21
179.38	-49.66	-53.10	4.58	-1.14	-13.00	-36.66
497.54	-57.81	-61.50	6.28	-2.59	-13.00	-44.81
737.13	-56.18	-61.45	7.38	-2.11	-13.00	-43.18
776.90	-53.52	-58.76	7.50	-2.26	-13.00	-40.52
3800.00	-55.15	-56.43	12.16	-10.88	-13.00	-42.15

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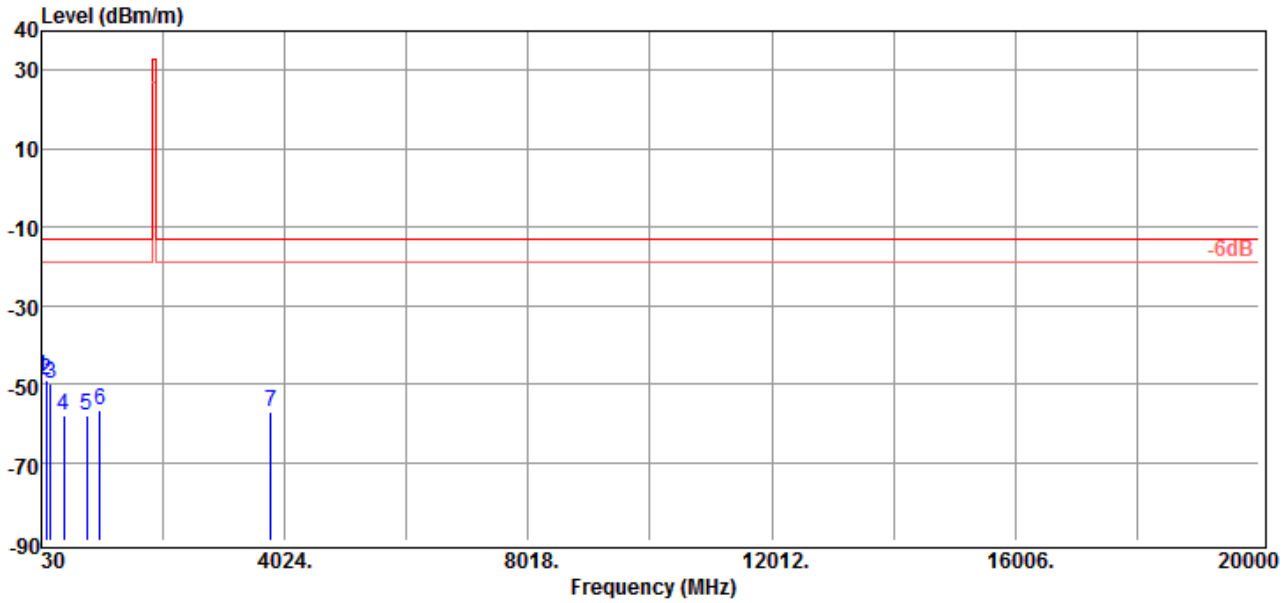
Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-48.16	-37.65	-9.90	-0.61	-13.00	-35.16
110.51	-48.98	-48.04	-0.05	-0.89	-13.00	-35.98
178.41	-50.18	-53.56	4.52	-1.14	-13.00	-37.18
397.63	-58.07	-61.59	5.56	-2.04	-13.00	-45.07
777.87	-58.14	-63.37	7.50	-2.27	-13.00	-45.14
998.06	-56.50	-61.32	7.80	-2.98	-13.00	-43.50
3800.00	-56.97	-58.25	12.16	-10.88	-13.00	-43.97

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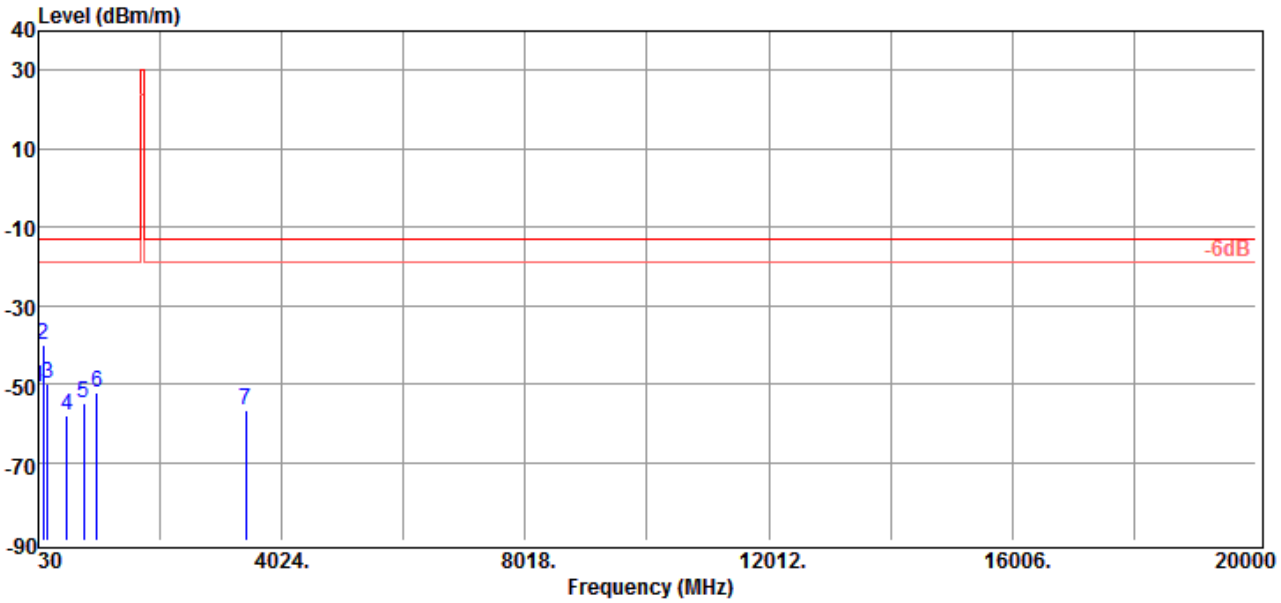
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
33.88	-50.67	-33.54	-16.63	-0.50	-13.00	-37.67
110.51	-39.96	-39.02	-0.05	-0.89	-13.00	-26.96
178.41	-49.85	-53.23	4.52	-1.14	-13.00	-36.85
498.51	-57.88	-61.56	6.28	-2.60	-13.00	-44.88
772.05	-54.82	-60.08	7.48	-2.22	-13.00	-41.82
996.12	-52.19	-57.02	7.80	-2.97	-13.00	-39.19
3440.00	-56.85	-58.06	11.97	-10.76	-13.00	-43.85

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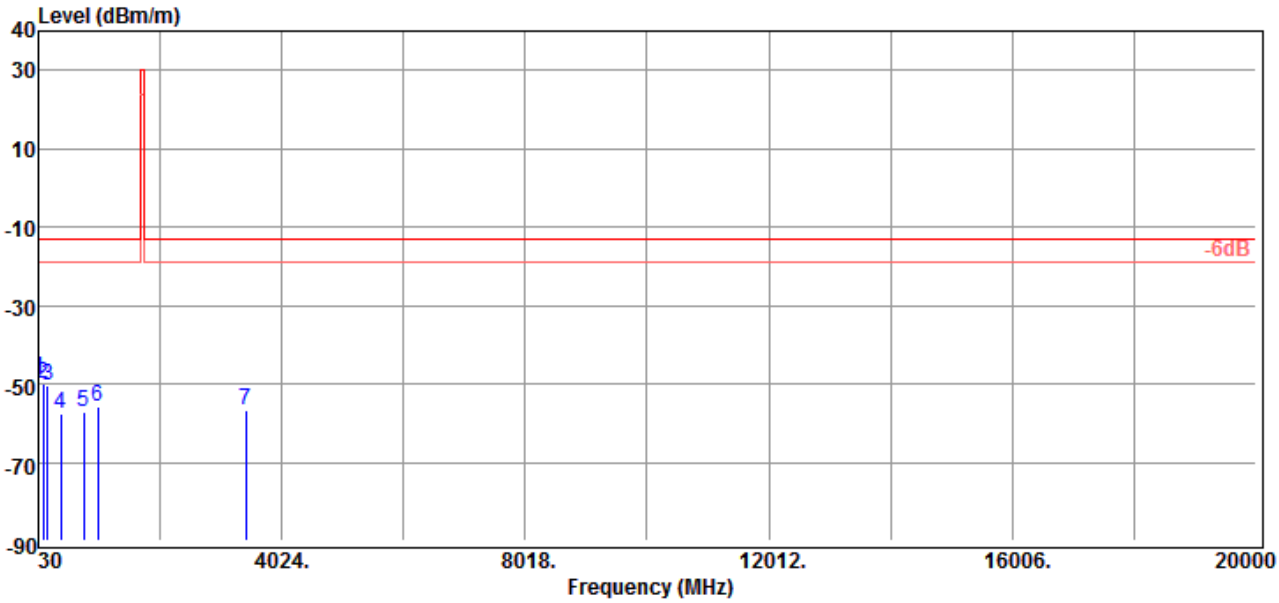
Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-48.63	-38.12	-9.90	-0.61	-13.00	-35.63
110.51	-49.94	-49.00	-0.05	-0.89	-13.00	-36.94
174.53	-50.37	-53.52	4.27	-1.12	-13.00	-37.37
398.60	-57.54	-61.06	5.56	-2.04	-13.00	-44.54
777.87	-57.20	-62.43	7.50	-2.27	-13.00	-44.20
999.03	-55.73	-60.56	7.81	-2.98	-13.00	-42.73
3440.00	-56.52	-57.73	11.97	-10.76	-13.00	-43.52

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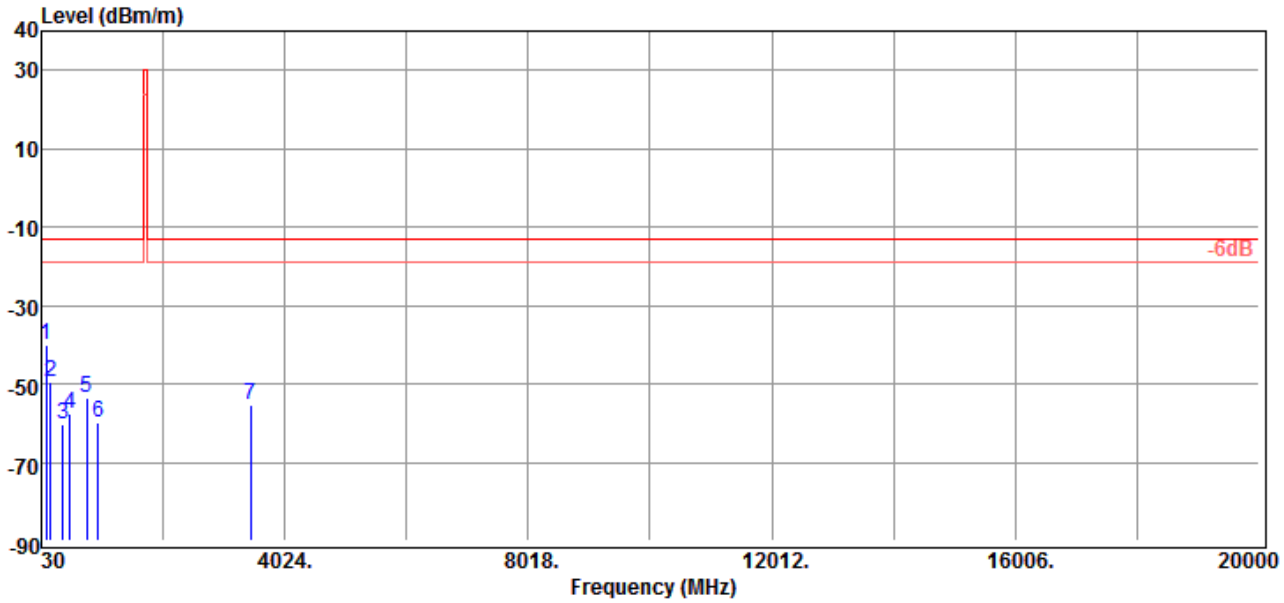
Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-39.89	-38.95	-0.05	-0.89	-13.00	-26.89
179.38	-49.54	-52.98	4.58	-1.14	-13.00	-36.54
384.05	-60.14	-63.75	5.62	-2.01	-13.00	-47.14
499.48	-57.67	-61.35	6.29	-2.61	-13.00	-44.67
776.90	-53.63	-58.87	7.50	-2.26	-13.00	-40.63
959.26	-59.95	-64.86	7.69	-2.78	-13.00	-46.95
3465.00	-55.18	-56.43	12.02	-10.77	-13.00	-42.18

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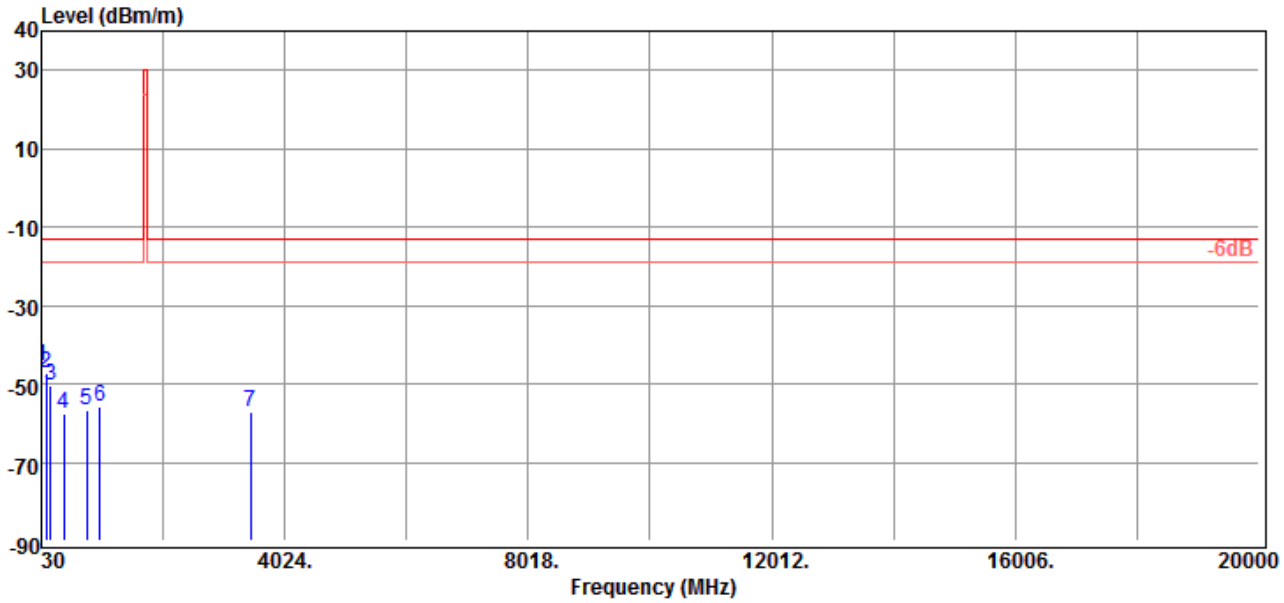
Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-45.33	-35.54	-9.17	-0.62	-13.00	-32.33
108.57	-47.13	-46.04	-0.20	-0.89	-13.00	-34.13
175.50	-50.36	-53.57	4.33	-1.12	-13.00	-37.36
399.57	-57.60	-61.11	5.55	-2.04	-13.00	-44.60
777.87	-56.50	-61.73	7.50	-2.27	-13.00	-43.50
997.09	-55.61	-60.44	7.80	-2.97	-13.00	-42.61
3465.00	-56.99	-58.24	12.02	-10.77	-13.00	-43.99

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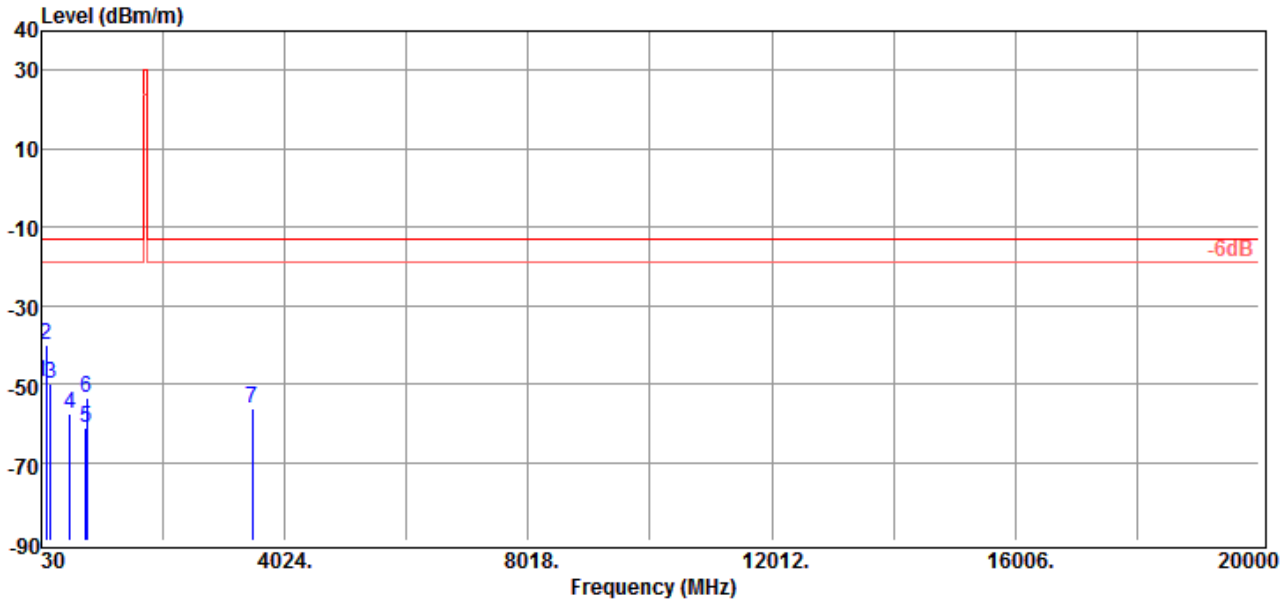
Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-49.39	-32.26	-16.63	-0.50	-13.00	-36.39
110.51	-40.13	-39.19	-0.05	-0.89	-13.00	-27.13
179.38	-50.02	-53.46	4.58	-1.14	-13.00	-37.02
498.51	-57.39	-61.07	6.28	-2.60	-13.00	-44.39
763.32	-61.22	-66.52	7.45	-2.15	-13.00	-48.22
776.90	-53.70	-58.94	7.50	-2.26	-13.00	-40.70
3490.00	-56.07	-57.37	12.08	-10.78	-13.00	-43.07

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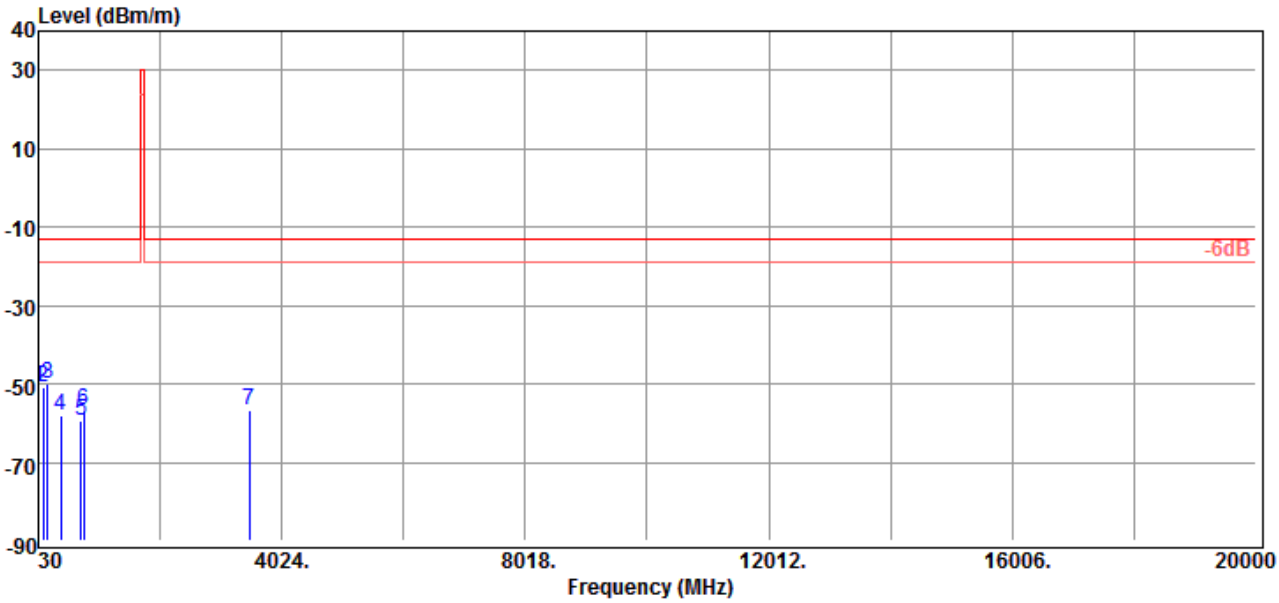
Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-51.09	-40.58	-9.90	-0.61	-13.00	-38.09
109.54	-50.94	-49.93	-0.12	-0.89	-13.00	-37.94
178.41	-50.14	-53.52	4.52	-1.14	-13.00	-37.14
393.75	-57.92	-61.47	5.58	-2.03	-13.00	-44.92
737.13	-59.61	-64.88	7.38	-2.11	-13.00	-46.61
776.90	-56.63	-61.87	7.50	-2.26	-13.00	-43.63
3490.00	-56.88	-58.18	12.08	-10.78	-13.00	-43.88

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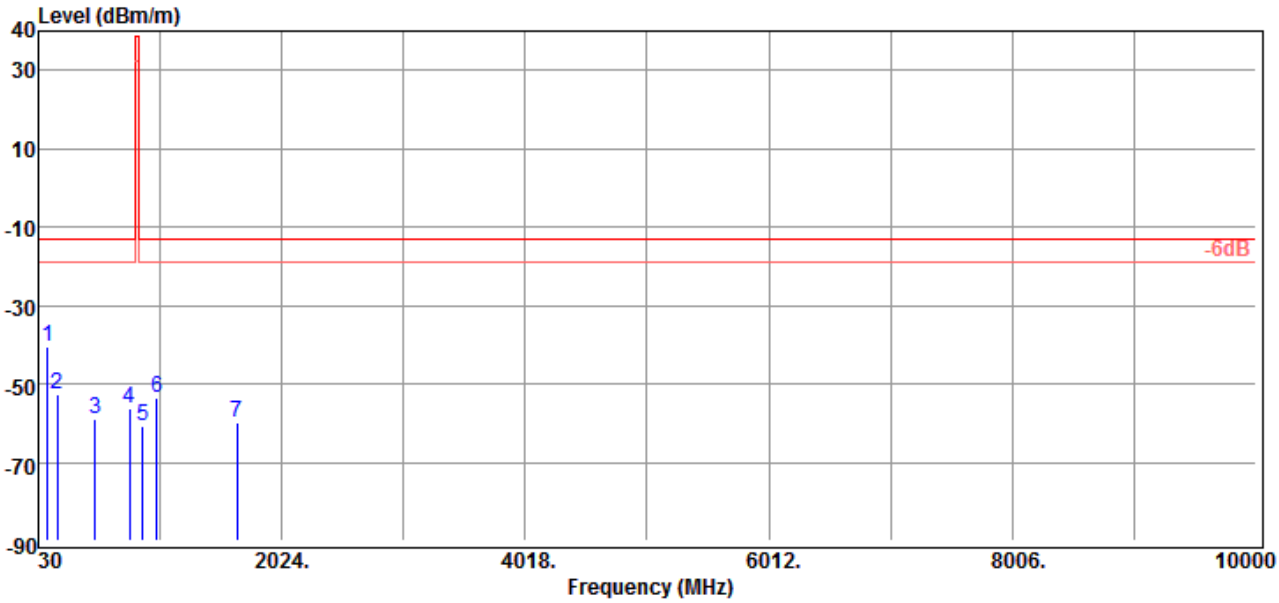
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
104.69	-40.51	-39.13	-0.50	-0.88	-13.00	-27.51
187.14	-52.89	-56.78	5.07	-1.18	-13.00	-39.89
498.51	-59.08	-62.76	6.28	-2.60	-13.00	-46.08
776.90	-56.15	-61.39	7.50	-2.26	-13.00	-43.15
883.60	-60.84	-65.99	7.56	-2.41	-13.00	-47.84
1000.00	-53.58	-58.40	7.81	-2.99	-13.00	-40.58
1658.00	-59.87	-61.11	8.60	-7.36	-13.00	-46.87

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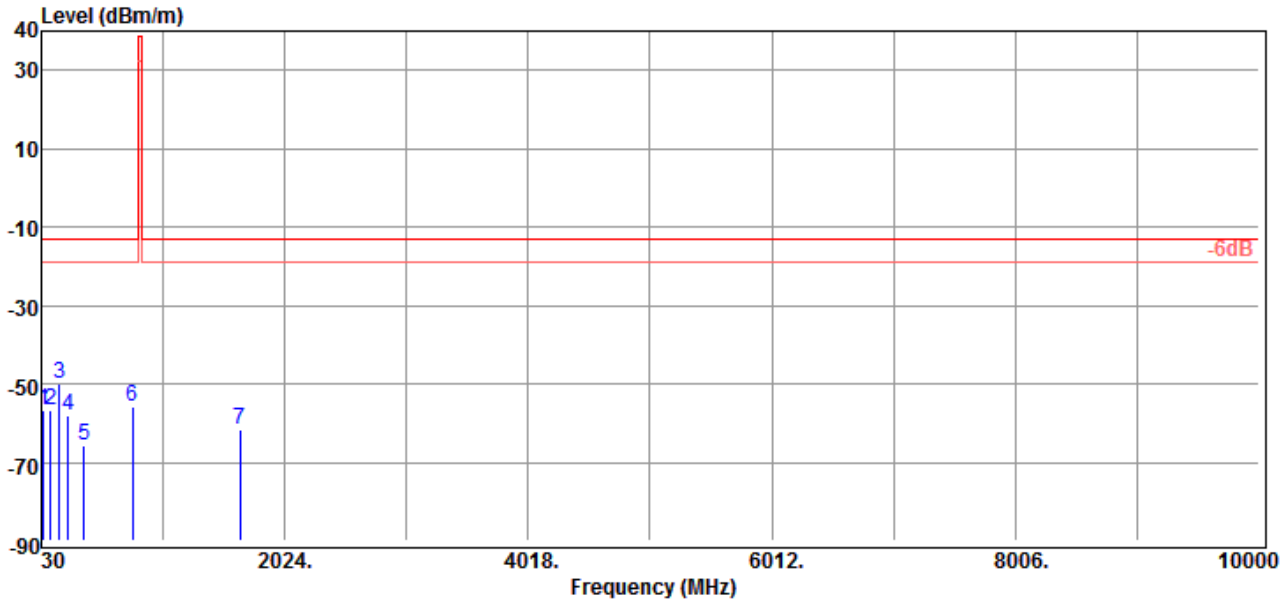
Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-56.84	-47.76	-8.45	-0.63	-13.00	-43.84
103.72	-56.87	-55.41	-0.58	-0.88	-13.00	-43.87
179.38	-49.86	-53.30	4.58	-1.14	-13.00	-36.86
247.28	-58.23	-62.00	5.20	-1.43	-13.00	-45.23
379.20	-65.62	-69.27	5.65	-2.00	-13.00	-52.62
776.90	-56.00	-61.24	7.50	-2.26	-13.00	-43.00
1658.00	-61.85	-63.09	8.60	-7.36	-13.00	-48.85

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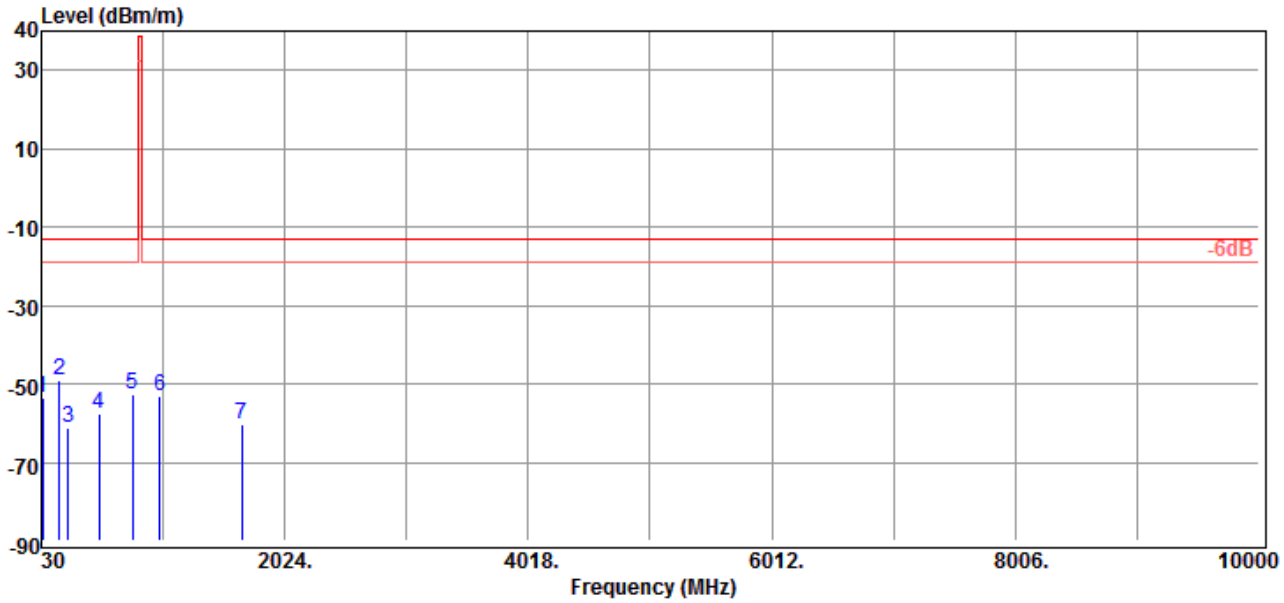
Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-53.47	-43.68	-9.17	-0.62	-13.00	-40.47
179.38	-49.22	-52.66	4.58	-1.14	-13.00	-36.22
253.10	-61.07	-64.84	5.22	-1.45	-13.00	-48.07
500.45	-57.57	-61.24	6.29	-2.62	-13.00	-44.57
776.90	-52.71	-57.95	7.50	-2.26	-13.00	-39.71
999.03	-52.94	-57.77	7.81	-2.98	-13.00	-39.94
1673.00	-60.09	-61.33	8.66	-7.42	-13.00	-47.09

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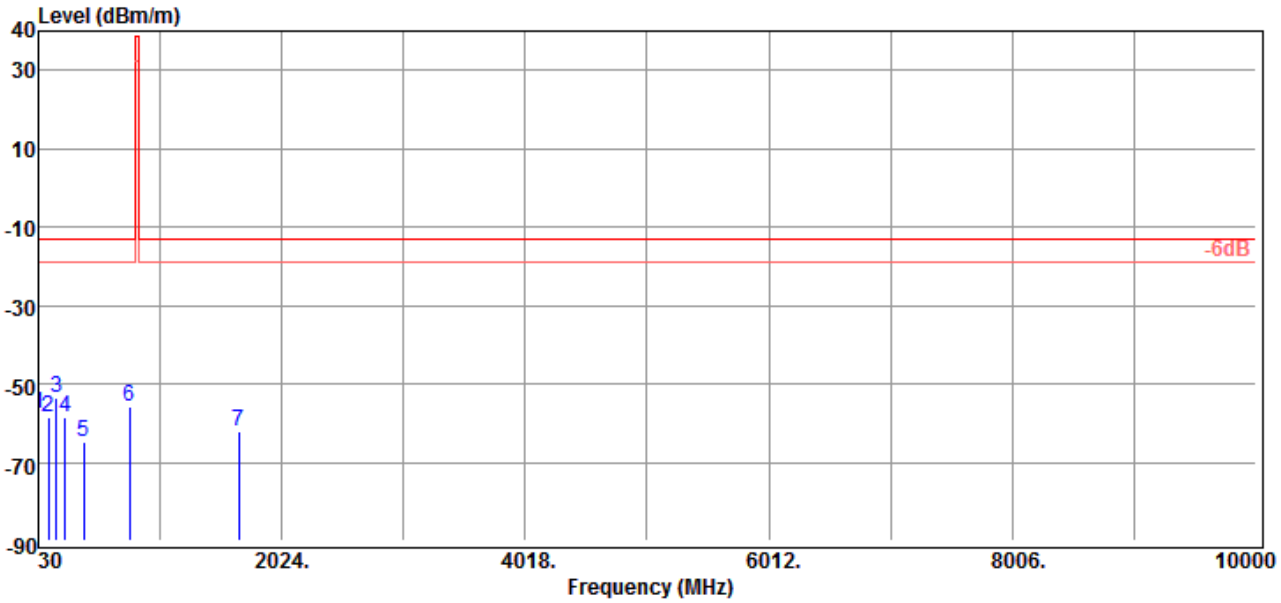
Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.59	-37.10	-20.05	-0.44	-13.00	-44.59
111.48	-58.44	-57.57	0.03	-0.90	-13.00	-45.44
179.38	-53.52	-56.96	4.58	-1.14	-13.00	-40.52
251.16	-58.40	-62.15	5.19	-1.44	-13.00	-45.40
400.54	-64.77	-68.29	5.56	-2.04	-13.00	-51.77
777.87	-55.89	-61.12	7.50	-2.27	-13.00	-42.89
1673.00	-62.07	-63.31	8.66	-7.42	-13.00	-49.07

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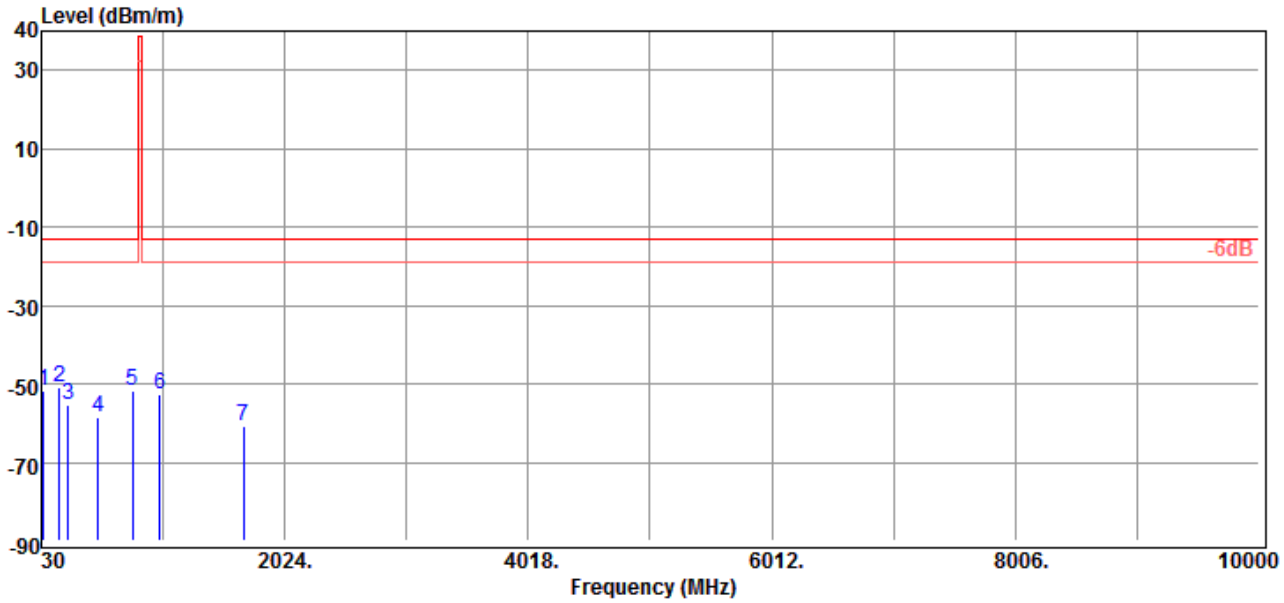
Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-51.93	-43.54	-7.76	-0.63	-13.00	-38.93
180.35	-50.84	-54.33	4.64	-1.15	-13.00	-37.84
251.16	-55.21	-58.96	5.19	-1.44	-13.00	-42.21
498.51	-58.65	-62.33	6.28	-2.60	-13.00	-45.65
776.90	-51.98	-57.22	7.50	-2.26	-13.00	-38.98
997.09	-52.56	-57.39	7.80	-2.97	-13.00	-39.56
1688.00	-60.69	-61.93	8.72	-7.48	-13.00	-47.69

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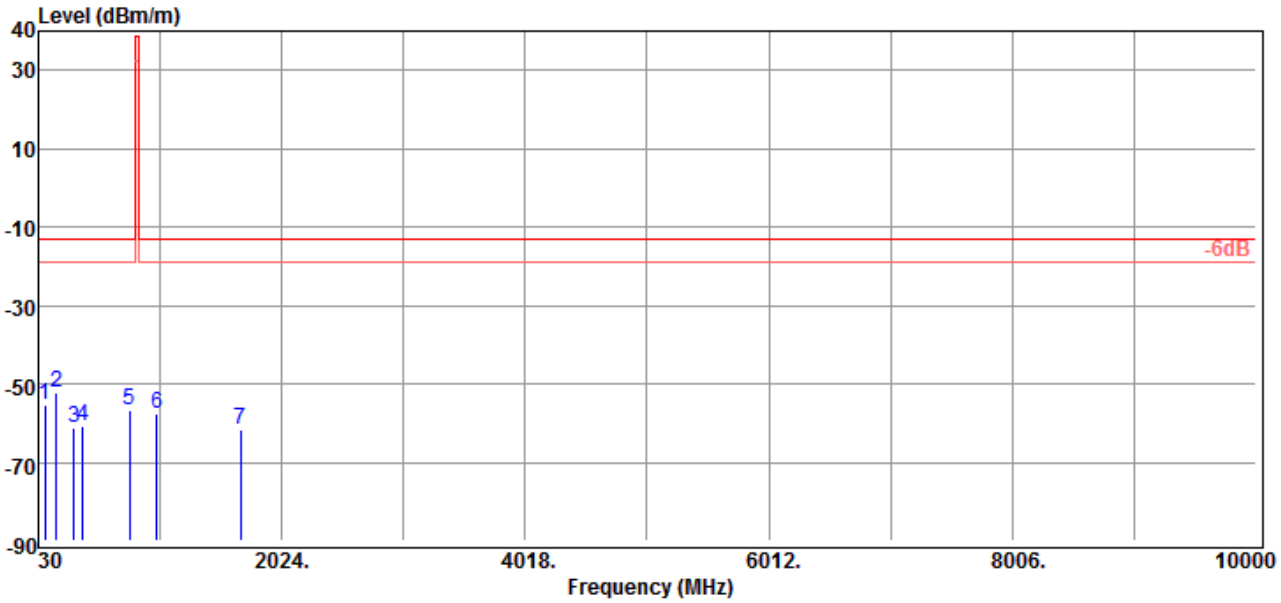
Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-55.29	-54.73	0.24	-0.80	-13.00	-42.29
177.44	-52.18	-55.51	4.46	-1.13	-13.00	-39.18
319.06	-61.05	-65.13	5.83	-1.75	-13.00	-48.05
397.63	-60.57	-64.09	5.56	-2.04	-13.00	-47.57
776.90	-56.63	-61.87	7.50	-2.26	-13.00	-43.63
1000.00	-57.78	-62.60	7.81	-2.99	-13.00	-44.78
1688.00	-61.63	-62.87	8.72	-7.48	-13.00	-48.63

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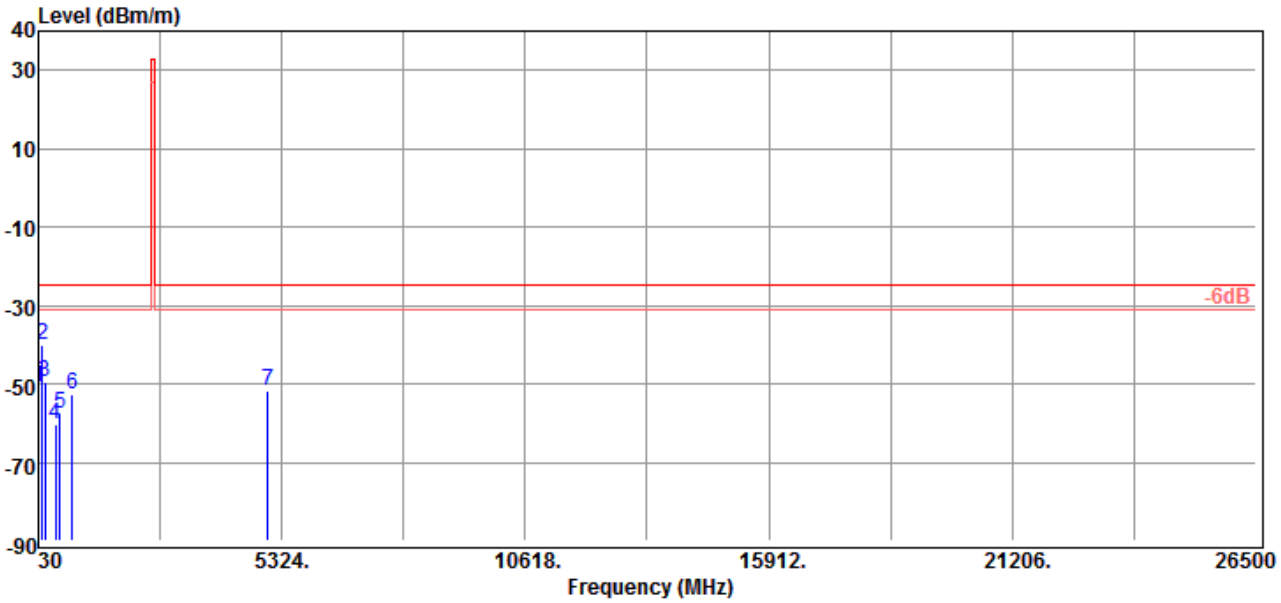
Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2510 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-50.94	-33.81	-16.63	-0.50	-25.00	-25.94
111.48	-40.08	-39.21	0.03	-0.90	-25.00	-15.08
179.38	-49.57	-53.01	4.58	-1.14	-25.00	-24.57
406.36	-60.29	-63.87	5.62	-2.04	-25.00	-35.29
497.54	-57.76	-61.45	6.28	-2.59	-25.00	-32.76
776.90	-52.53	-57.77	7.50	-2.26	-25.00	-27.53
5020.00	-51.95	-52.14	12.21	-12.02	-25.00	-26.95

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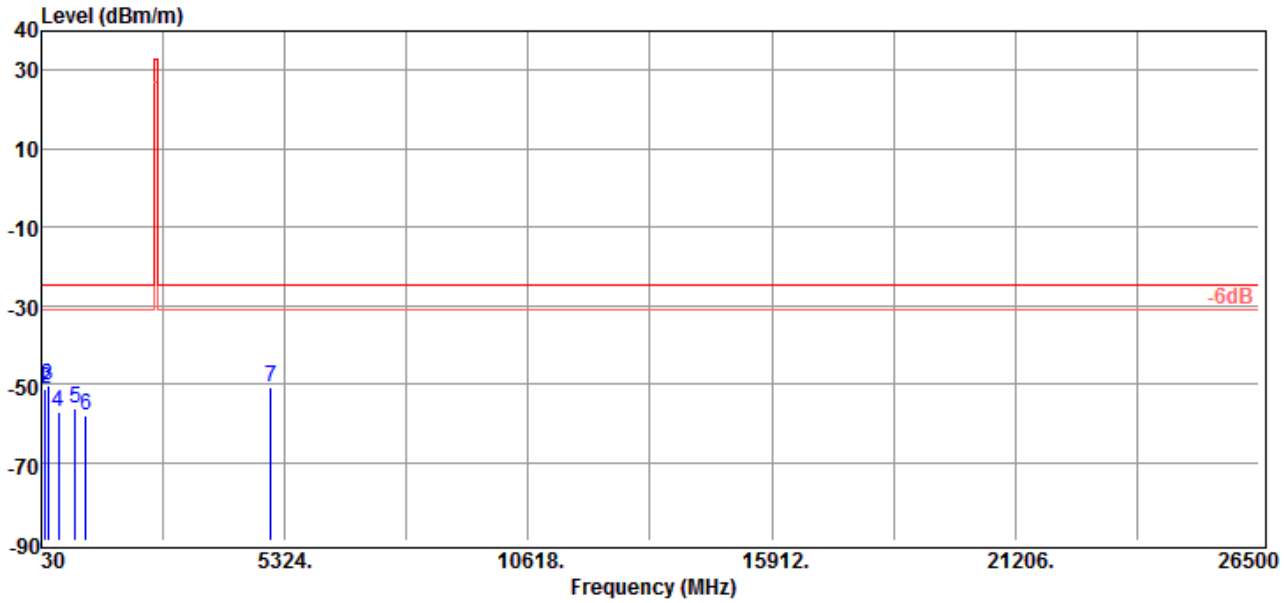
Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2510 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-51.15	-40.64	-9.90	-0.61	-25.00	-26.15
109.54	-51.09	-50.08	-0.12	-0.89	-25.00	-26.09
179.38	-50.27	-53.71	4.58	-1.14	-25.00	-25.27
398.60	-57.02	-60.54	5.56	-2.04	-25.00	-32.02
776.90	-56.34	-61.58	7.50	-2.26	-25.00	-31.34
1000.00	-58.18	-63.00	7.81	-2.99	-25.00	-33.18
5020.00	-50.84	-51.03	12.21	-12.02	-25.00	-25.84

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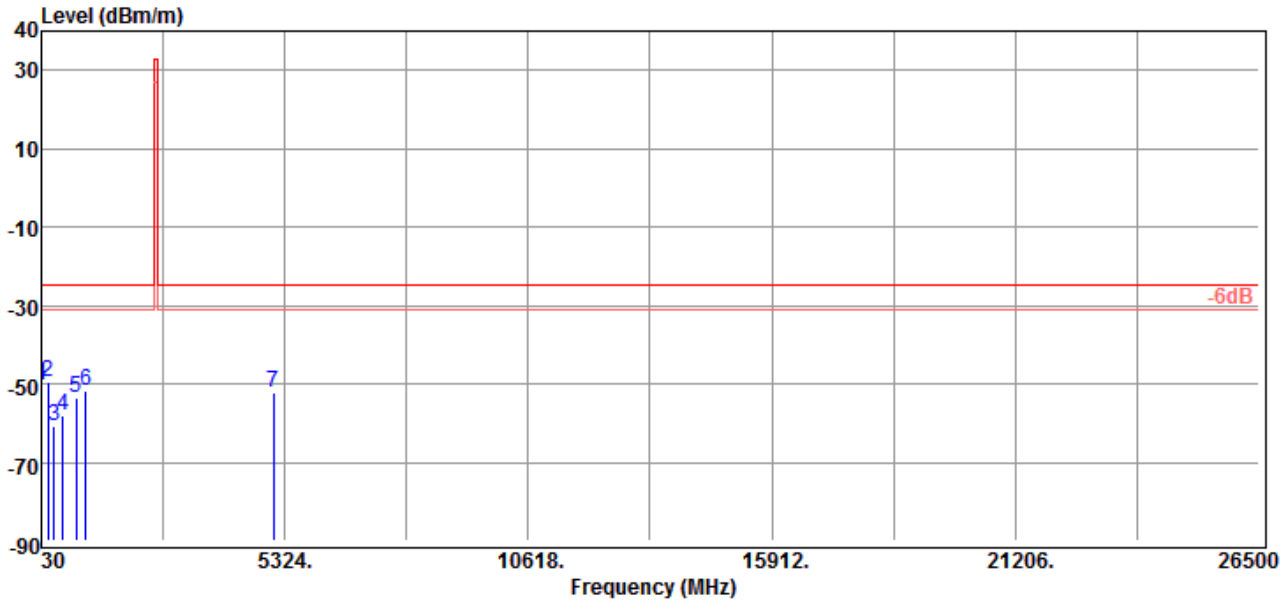
Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2535 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-50.50	-40.71	-9.17	-0.62	-25.00	-25.50
179.38	-49.60	-53.04	4.58	-1.14	-25.00	-24.60
313.24	-60.60	-64.72	5.83	-1.71	-25.00	-35.60
499.48	-57.93	-61.61	6.29	-2.61	-25.00	-32.93
777.87	-53.53	-58.76	7.50	-2.27	-25.00	-28.53
999.03	-51.95	-56.78	7.81	-2.98	-25.00	-26.95
5070.00	-52.38	-52.65	12.24	-11.97	-25.00	-27.38

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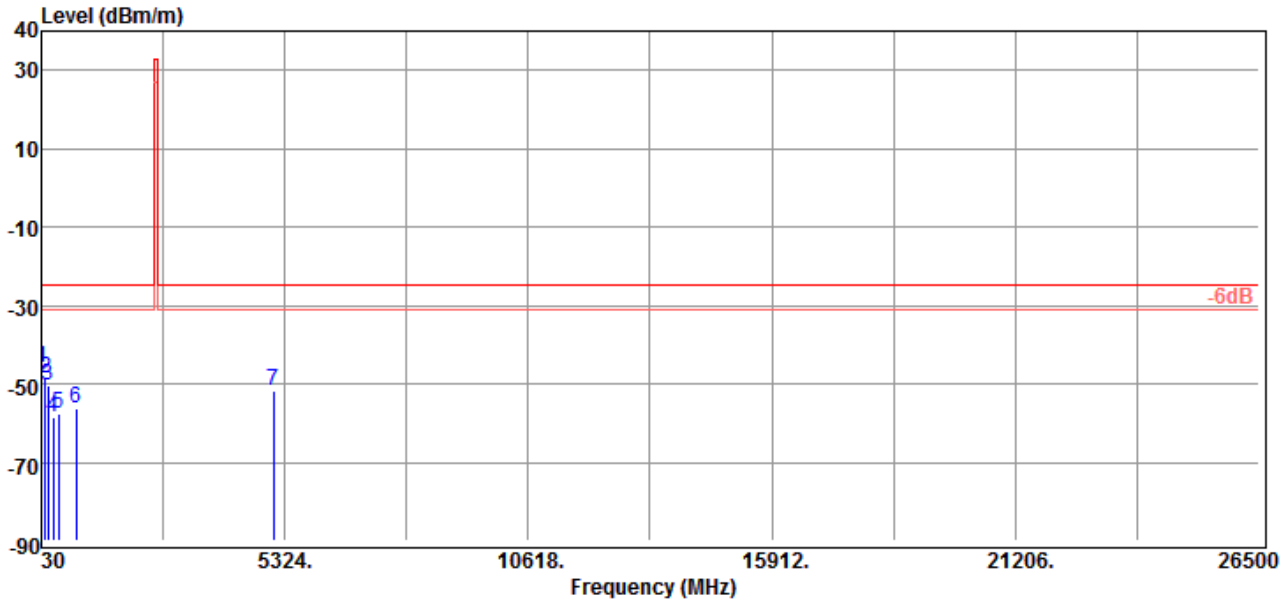
Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2535 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-46.14	-36.35	-9.17	-0.62	-25.00	-21.14
108.57	-48.83	-47.74	-0.20	-0.89	-25.00	-23.83
179.38	-50.51	-53.95	4.58	-1.14	-25.00	-25.51
283.17	-58.42	-62.49	5.63	-1.56	-25.00	-33.42
399.57	-57.77	-61.28	5.55	-2.04	-25.00	-32.77
777.87	-56.43	-61.66	7.50	-2.27	-25.00	-31.43
5070.00	-51.54	-51.81	12.24	-11.97	-25.00	-26.54

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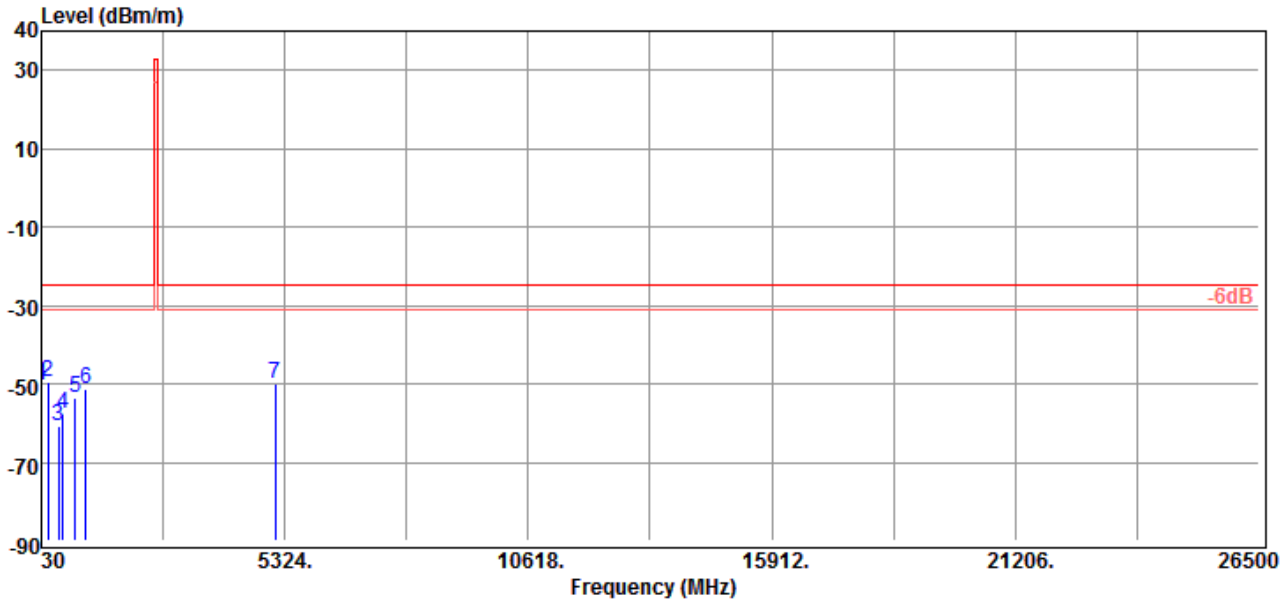
Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-50.37	-41.29	-8.45	-0.63	-25.00	-25.37
179.38	-49.46	-52.90	4.58	-1.14	-25.00	-24.46
403.45	-60.71	-64.26	5.59	-2.04	-25.00	-35.71
497.54	-57.50	-61.19	6.28	-2.59	-25.00	-32.50
776.90	-53.71	-58.95	7.50	-2.26	-25.00	-28.71
997.09	-51.47	-56.30	7.80	-2.97	-25.00	-26.47
5120.00	-49.85	-50.20	12.27	-11.92	-25.00	-24.85

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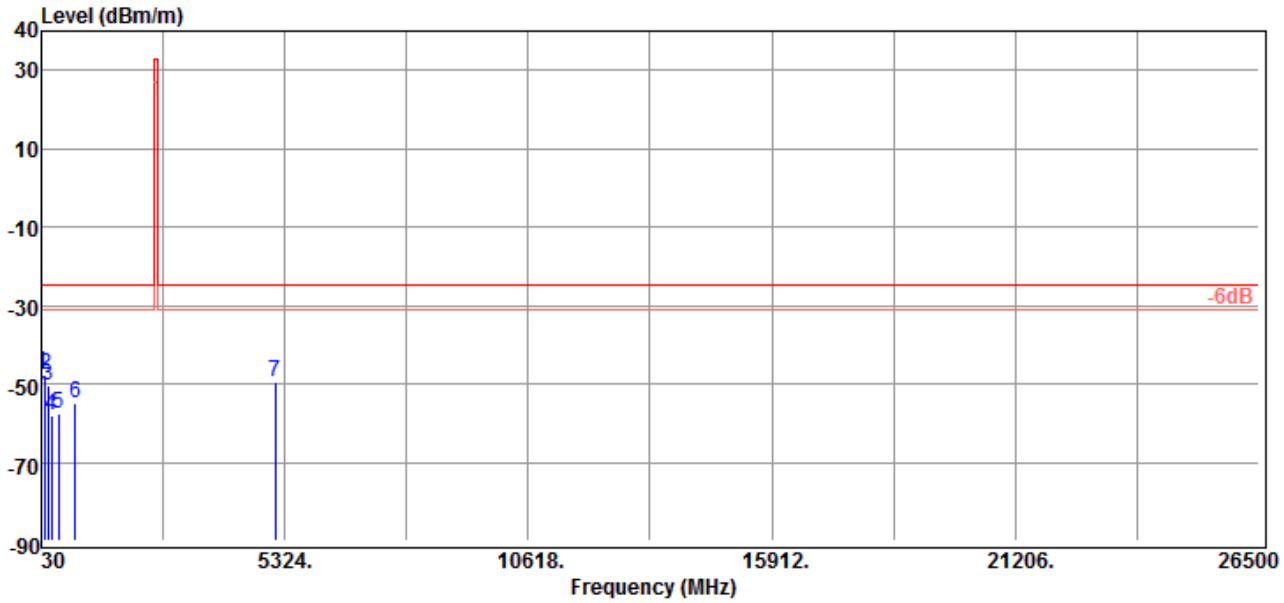
Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-47.12	-37.33	-9.17	-0.62	-25.00	-22.12
109.54	-47.75	-46.74	-0.12	-0.89	-25.00	-22.75
174.53	-50.33	-53.48	4.27	-1.12	-25.00	-25.33
251.16	-58.15	-61.90	5.19	-1.44	-25.00	-33.15
398.60	-57.59	-61.11	5.56	-2.04	-25.00	-32.59
776.90	-54.69	-59.93	7.50	-2.26	-25.00	-29.69
5120.00	-49.57	-49.92	12.27	-11.92	-25.00	-24.57

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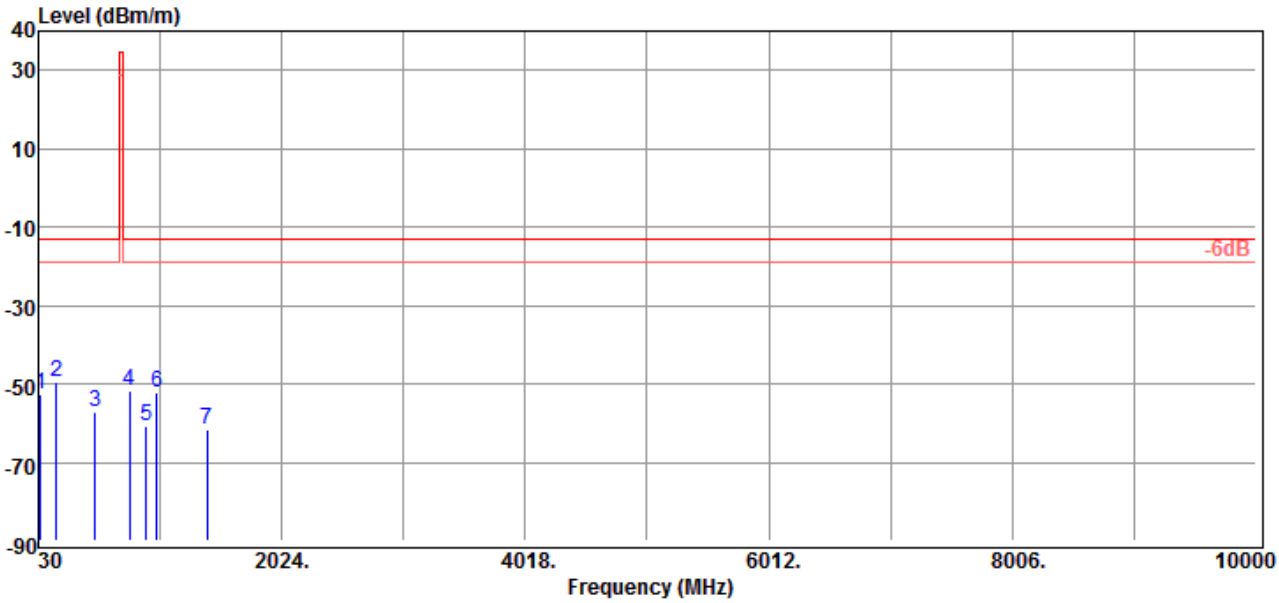
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
44.55	-52.48	-43.40	-8.45	-0.63	-13.00	-39.48
180.35	-49.68	-53.17	4.64	-1.15	-13.00	-36.68
497.54	-57.28	-60.97	6.28	-2.59	-13.00	-44.28
776.90	-51.61	-56.85	7.50	-2.26	-13.00	-38.61
911.73	-60.55	-65.65	7.61	-2.51	-13.00	-47.55
1000.00	-52.23	-57.05	7.81	-2.99	-13.00	-39.23
1408.00	-61.84	-62.96	7.54	-6.42	-13.00	-48.84

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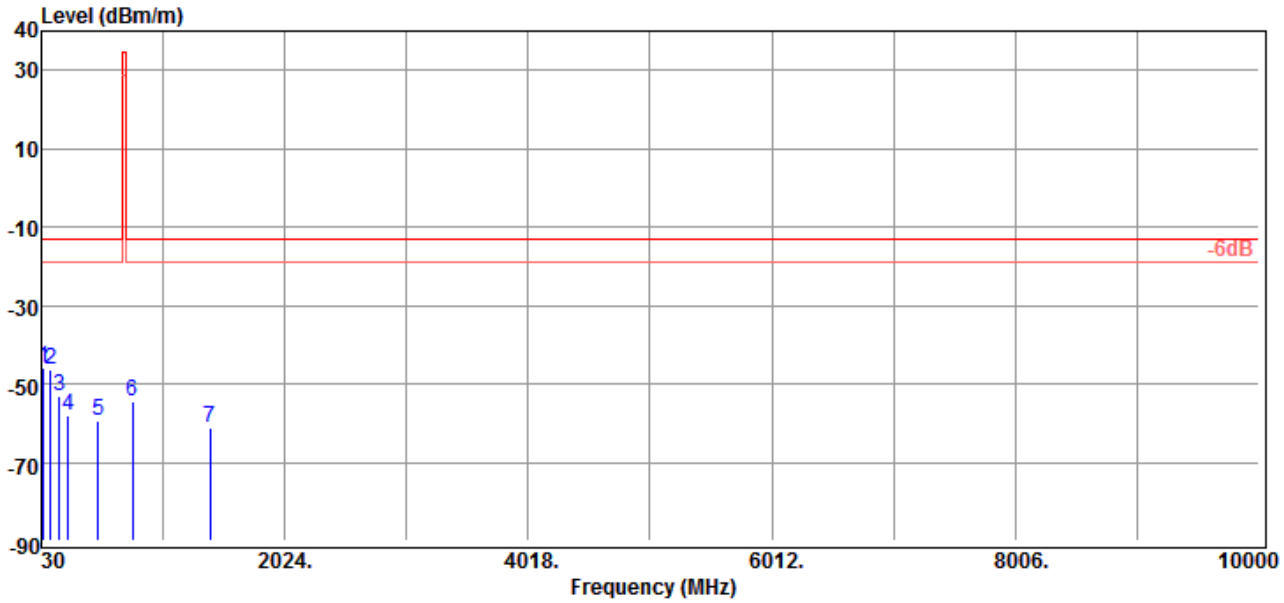
Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:704 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-46.05	-36.97	-8.45	-0.63	-13.00	-33.05
106.63	-46.38	-45.15	-0.35	-0.88	-13.00	-33.38
180.35	-53.08	-56.57	4.64	-1.15	-13.00	-40.08
251.16	-57.93	-61.68	5.19	-1.44	-13.00	-44.93
497.54	-59.32	-63.01	6.28	-2.59	-13.00	-46.32
776.90	-54.29	-59.53	7.50	-2.26	-13.00	-41.29
1408.00	-61.14	-62.26	7.54	-6.42	-13.00	-48.14

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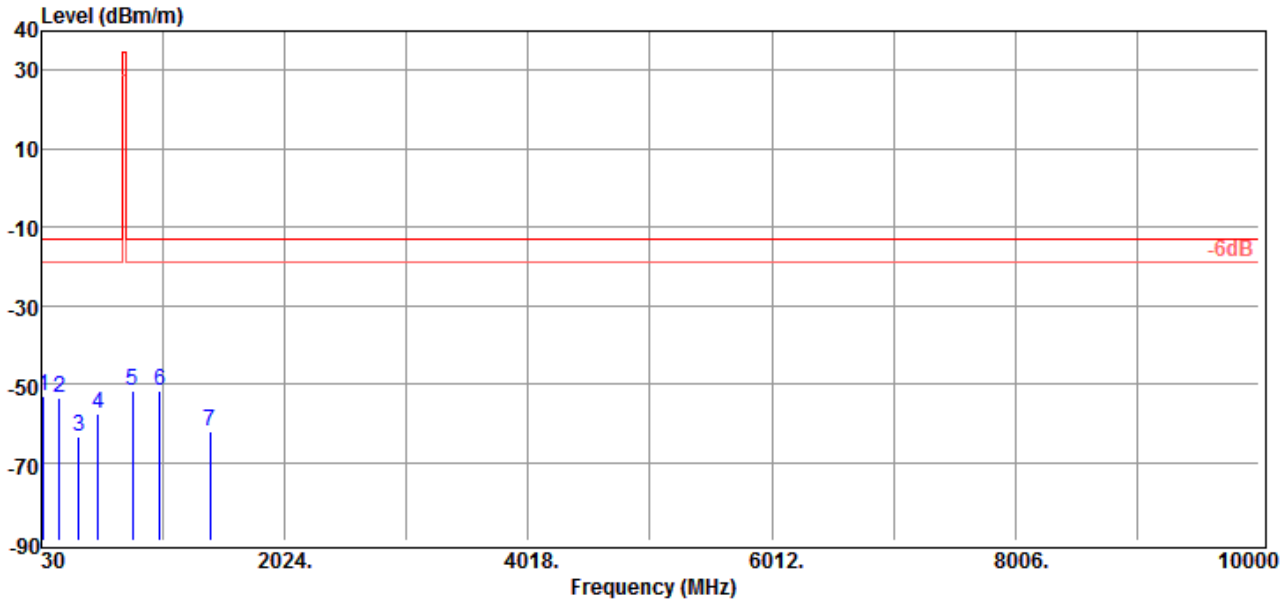
Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-53.27	-44.88	-7.76	-0.63	-13.00	-40.27
179.38	-53.40	-56.84	4.58	-1.14	-13.00	-40.40
333.61	-63.33	-67.30	5.81	-1.84	-13.00	-50.33
498.51	-57.82	-61.50	6.28	-2.60	-13.00	-44.82
777.87	-51.70	-56.93	7.50	-2.27	-13.00	-38.70
997.09	-51.82	-56.65	7.80	-2.97	-13.00	-38.82
1415.00	-62.06	-63.19	7.57	-6.44	-13.00	-49.06

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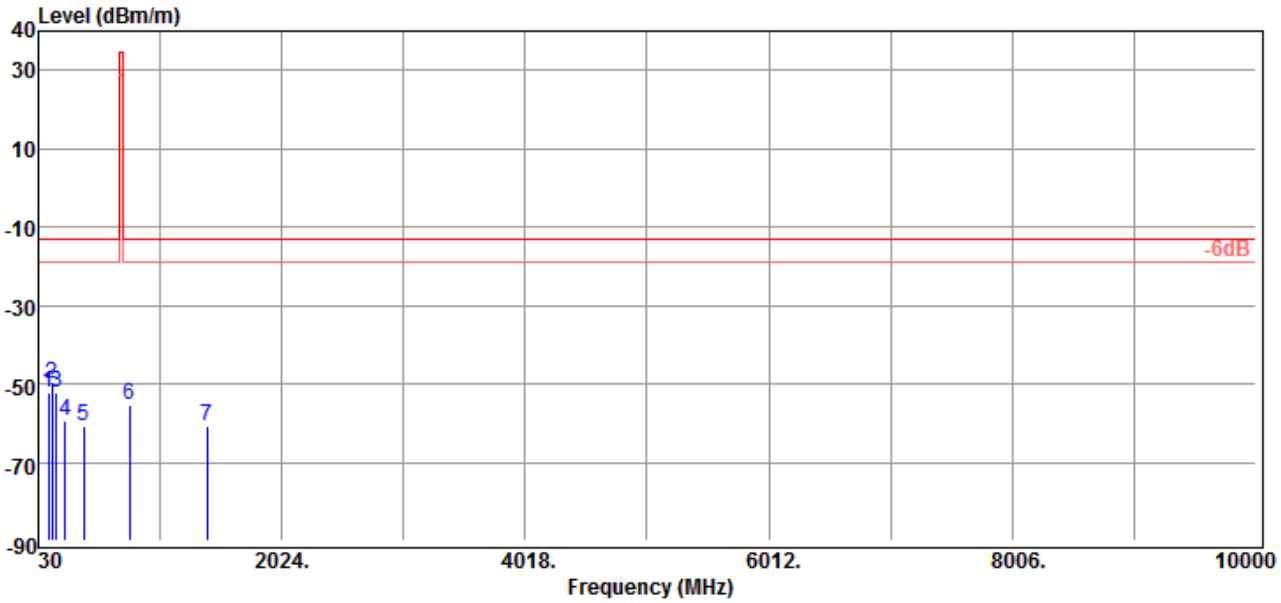
Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-52.38	-51.44	-0.05	-0.89	-13.00	-39.38
138.64	-50.02	-50.92	1.87	-0.97	-13.00	-37.02
177.44	-52.37	-55.70	4.46	-1.13	-13.00	-39.37
251.16	-59.22	-62.97	5.19	-1.44	-13.00	-46.22
400.54	-60.64	-64.16	5.56	-2.04	-13.00	-47.64
776.90	-55.22	-60.46	7.50	-2.26	-13.00	-42.22
1415.00	-60.94	-62.07	7.57	-6.44	-13.00	-47.94

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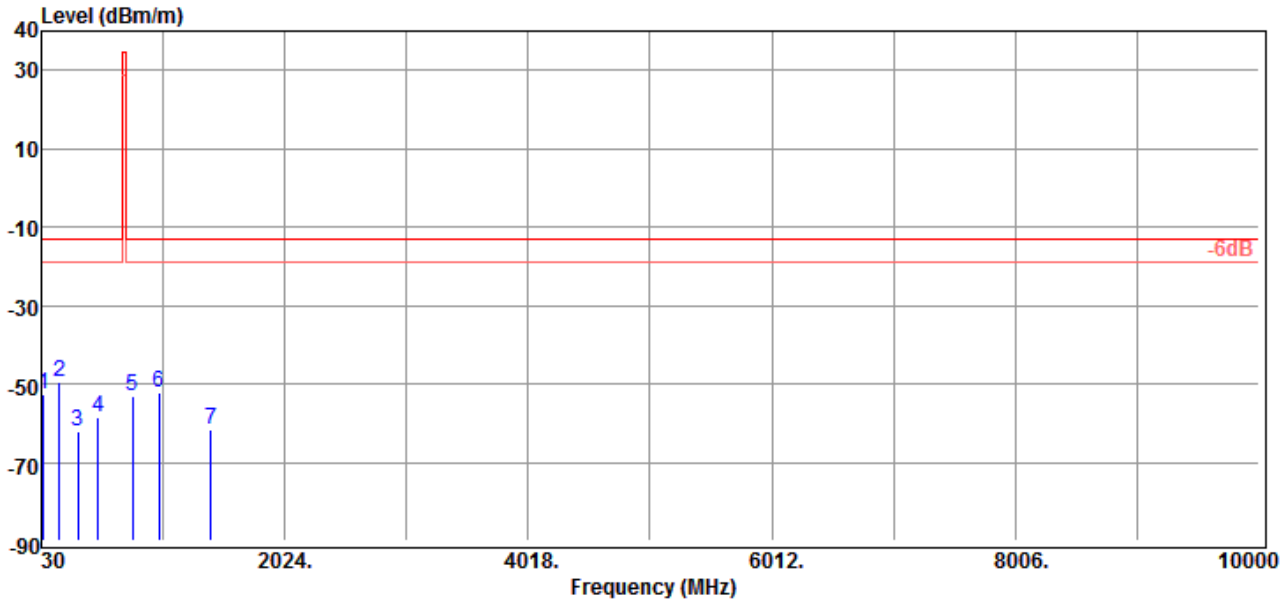
Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-52.48	-43.40	-8.45	-0.63	-13.00	-39.48
180.35	-49.31	-52.80	4.64	-1.15	-13.00	-36.31
330.70	-61.98	-65.97	5.81	-1.82	-13.00	-48.98
497.54	-58.58	-62.27	6.28	-2.59	-13.00	-45.58
776.90	-53.05	-58.29	7.50	-2.26	-13.00	-40.05
996.12	-52.34	-57.17	7.80	-2.97	-13.00	-39.34
1422.00	-61.77	-62.91	7.60	-6.46	-13.00	-48.77

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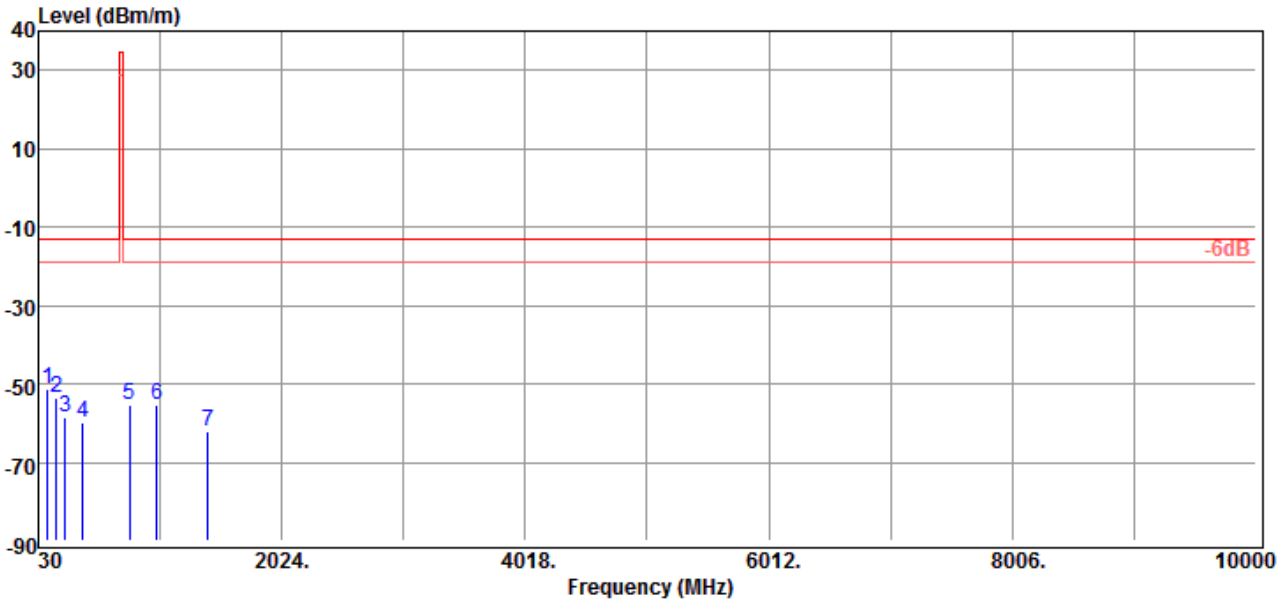
Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-51.18	-50.09	-0.20	-0.89	-13.00	-38.18
177.44	-53.49	-56.82	4.46	-1.13	-13.00	-40.49
250.19	-58.36	-62.09	5.17	-1.44	-13.00	-45.36
397.63	-59.75	-63.27	5.56	-2.04	-13.00	-46.75
776.90	-55.54	-60.78	7.50	-2.26	-13.00	-42.54
1000.00	-55.53	-60.35	7.81	-2.99	-13.00	-42.53
1422.00	-62.25	-63.39	7.60	-6.46	-13.00	-49.25

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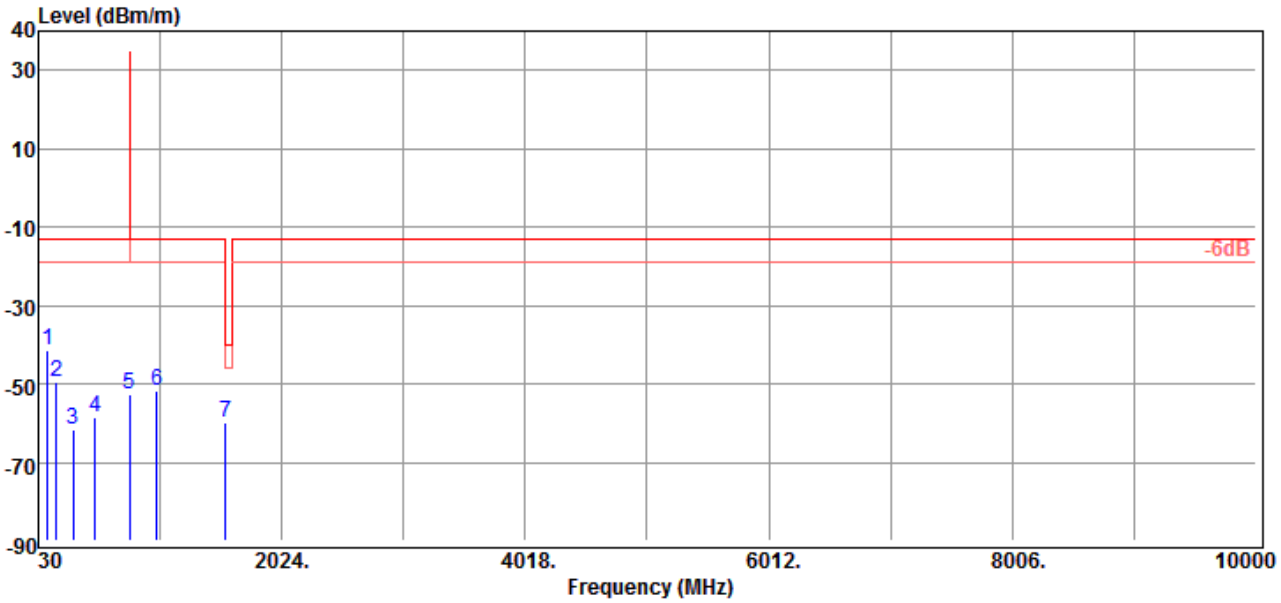
Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
105.66	-41.29	-39.98	-0.43	-0.88	-13.00	-28.29
179.38	-49.42	-52.86	4.58	-1.14	-13.00	-36.42
312.27	-61.68	-65.81	5.83	-1.70	-13.00	-48.68
497.54	-58.31	-62.00	6.28	-2.59	-13.00	-45.31
777.87	-52.84	-58.07	7.50	-2.27	34.77	-87.61
997.09	-51.87	-56.70	7.80	-2.97	-13.00	-38.87
1564.00	-59.81	-61.04	8.19	-6.96	-40.00	-19.81

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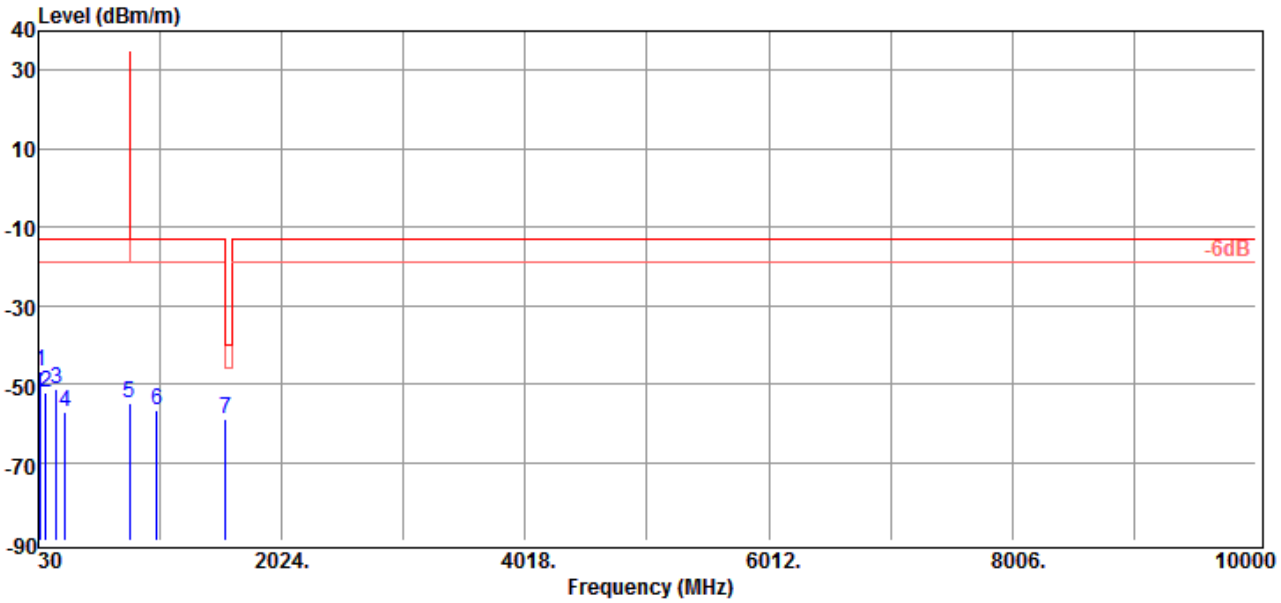
Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
50.37	-46.75	-41.54	-4.55	-0.66	-13.00	-33.75
94.02	-52.25	-51.05	-0.37	-0.83	-13.00	-39.25
174.53	-51.53	-54.68	4.27	-1.12	-13.00	-38.53
251.16	-57.25	-61.00	5.19	-1.44	-13.00	-44.25
776.90	-54.91	-60.15	7.50	-2.26	-13.00	-41.91
1000.00	-56.61	-61.43	7.81	-2.99	-13.00	-43.61
1564.00	-58.89	-60.12	8.19	-6.96	-40.00	-18.89

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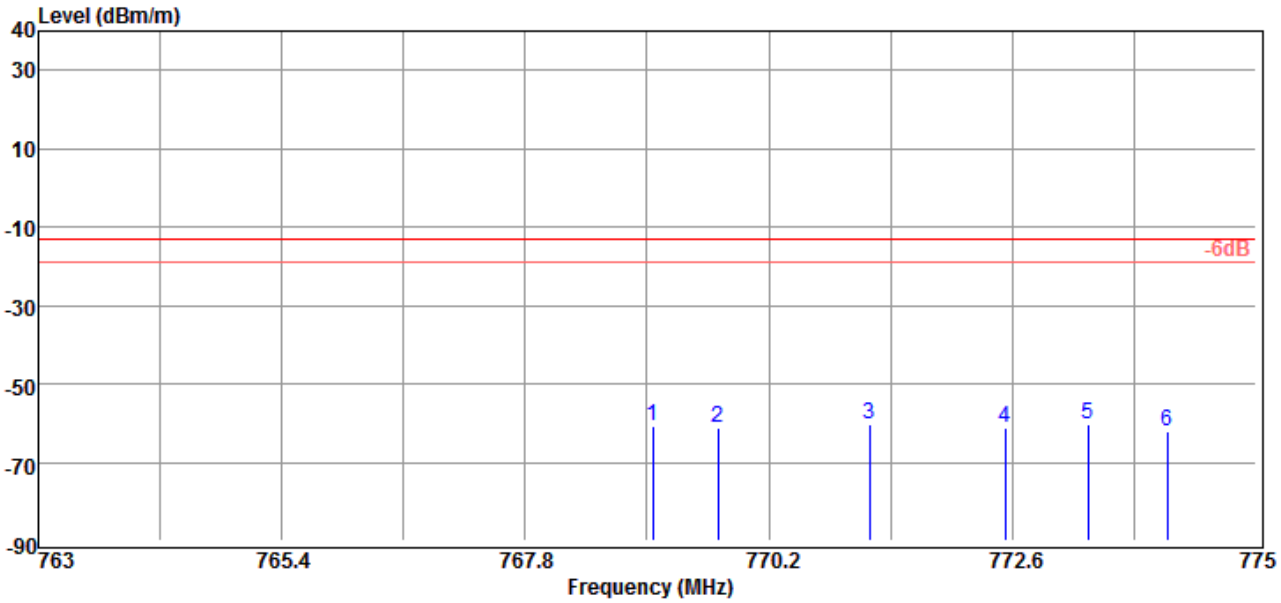
Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
769.06	-60.54	-58.28	2.08	-4.34	-13.00	-47.54
769.70	-61.18	-58.92	2.08	-4.34	-13.00	-48.18
771.20	-60.51	-58.25	2.09	-4.35	-13.00	-47.51
772.53	-61.05	-58.78	2.09	-4.36	-13.00	-48.05
773.34	-60.45	-58.19	2.10	-4.36	-13.00	-47.45
774.12	-62.09	-59.82	2.10	-4.37	-13.00	-49.09

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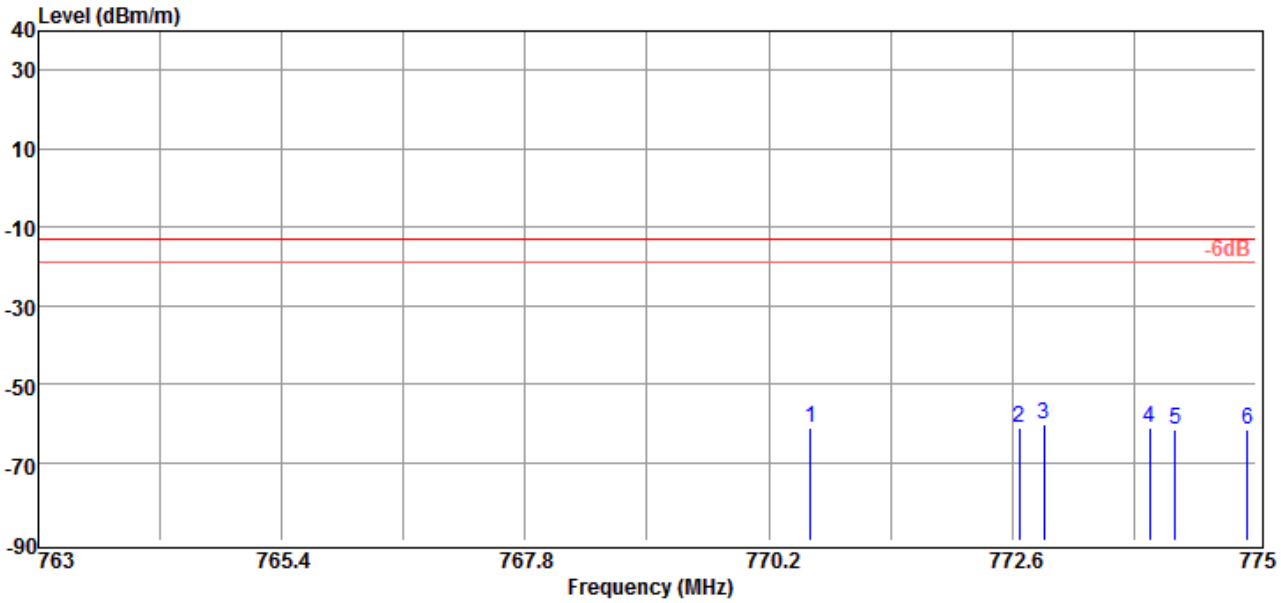
Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
770.61	-61.42	-59.16	2.09	-4.35	-13.00	-48.42
772.67	-61.13	-58.86	2.09	-4.36	-13.00	-48.13
772.91	-60.37	-58.10	2.09	-4.36	-13.00	-47.37
773.96	-61.32	-59.05	2.10	-4.37	-13.00	-48.32
774.21	-61.58	-59.31	2.10	-4.37	-13.00	-48.58
774.92	-61.66	-59.39	2.10	-4.37	-13.00	-48.66

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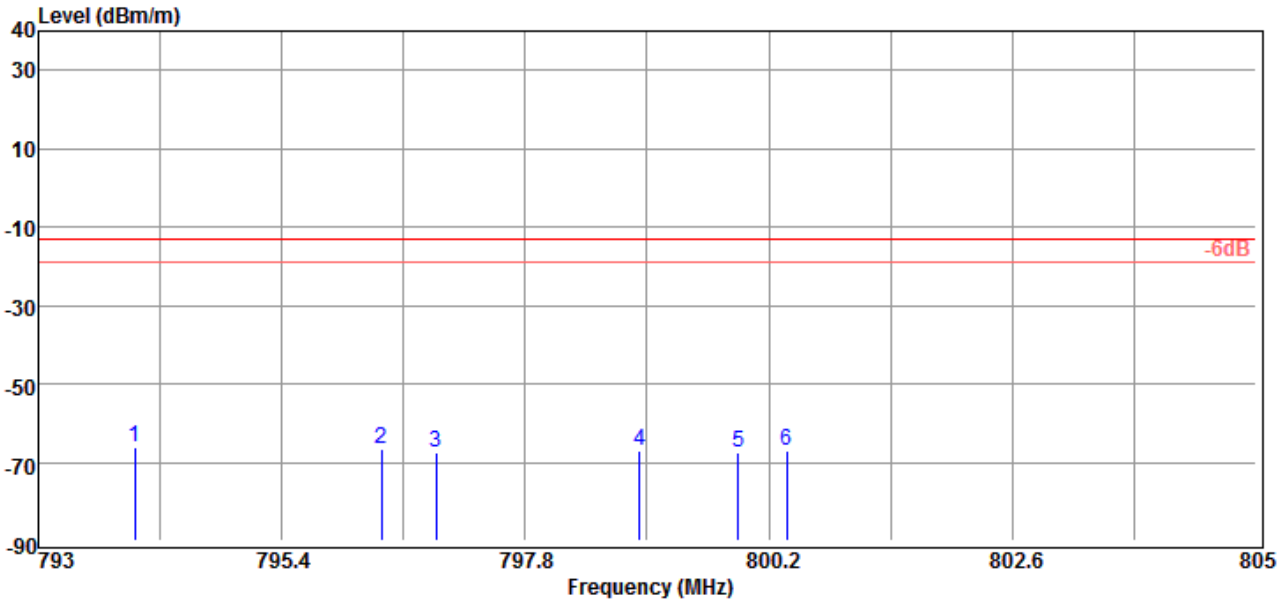
Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.95	-66.21	-63.90	2.16	-4.47	-13.00	-53.21
796.38	-66.46	-64.15	2.17	-4.48	-13.00	-53.46
796.92	-67.62	-65.31	2.17	-4.48	-13.00	-54.62
798.93	-67.02	-64.71	2.18	-4.49	-13.00	-54.02
799.90	-67.36	-65.04	2.18	-4.50	-13.00	-54.36
800.38	-67.03	-64.71	2.18	-4.50	-13.00	-54.03

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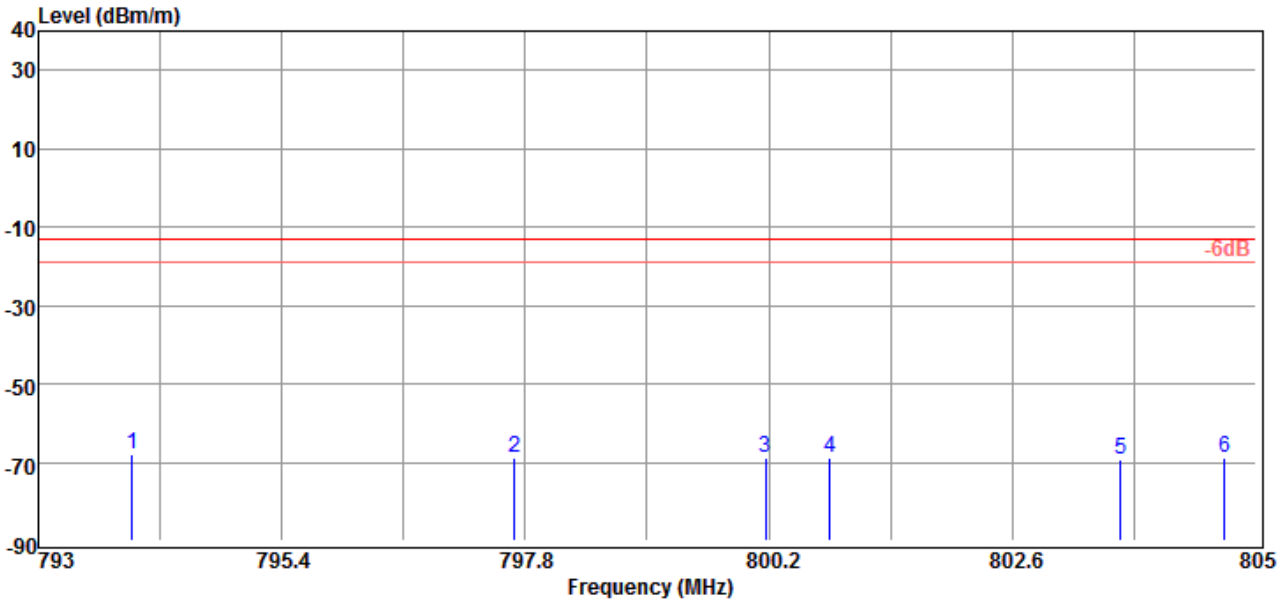
Operation Mode	:LTEB13 10M QPSK RB 1,49	Test Date	:2018-12-14
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.92	-68.06	-65.75	2.16	-4.47	-13.00	-55.06
797.69	-69.03	-66.71	2.17	-4.49	-13.00	-56.03
800.16	-68.84	-66.52	2.18	-4.50	-13.00	-55.84
800.80	-68.90	-66.57	2.18	-4.51	-13.00	-55.90
803.67	-69.51	-67.15	2.17	-4.53	-13.00	-56.51
804.69	-68.93	-66.56	2.17	-4.54	-13.00	-55.93

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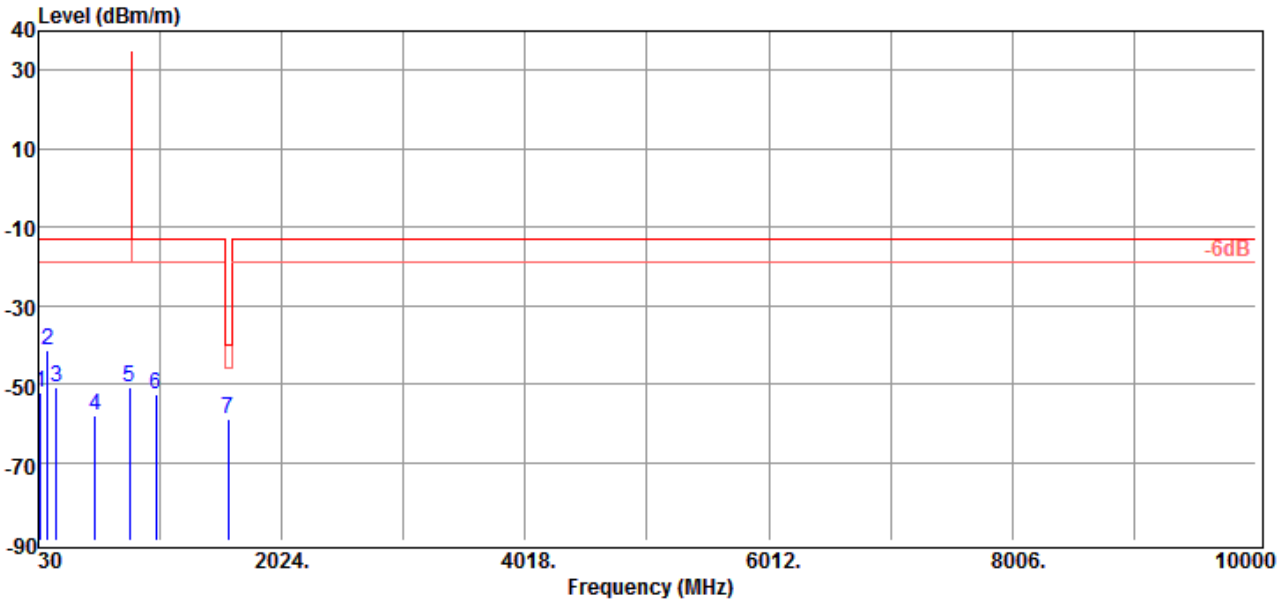
Radiated Spurious Emission Measurement Result: LTE-Band 14 (The Worst Case)

Operation Mode	:LTEB14 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:793 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	-52.12	-43.04	-8.45	-0.63	-13.00	-39.12
105.66	-41.22	-39.91	-0.43	-0.88	-13.00	-28.22
177.44	-50.78	-54.11	4.46	-1.13	-13.00	-37.78
497.54	-58.14	-61.83	6.28	-2.59	-13.00	-45.14
777.87	-50.74	-55.97	7.50	-2.27	-13.00	-37.74
996.12	-52.54	-57.37	7.80	-2.97	-13.00	-39.54
1586.00	-58.92	-60.16	8.29	-7.05	-40.00	-18.92

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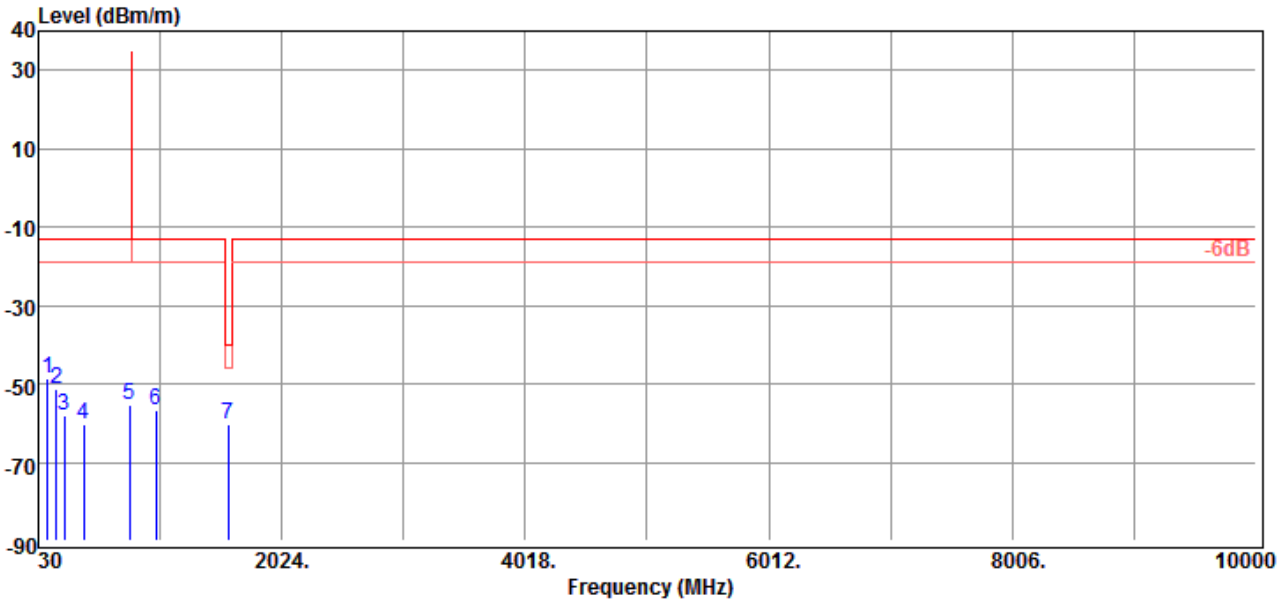
Operation Mode	:LTEB14 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:793 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.60	-48.65	-47.49	-0.27	-0.89	-13.00	-35.65
177.44	-51.29	-54.62	4.46	-1.13	-13.00	-38.29
242.43	-58.10	-61.95	5.26	-1.41	-13.00	-45.10
399.57	-60.13	-63.64	5.55	-2.04	-13.00	-47.13
776.90	-55.17	-60.41	7.50	-2.26	-13.00	-42.17
996.12	-56.62	-61.45	7.80	-2.97	-13.00	-43.62
1586.00	-60.26	-61.50	8.29	-7.05	-40.00	-20.26

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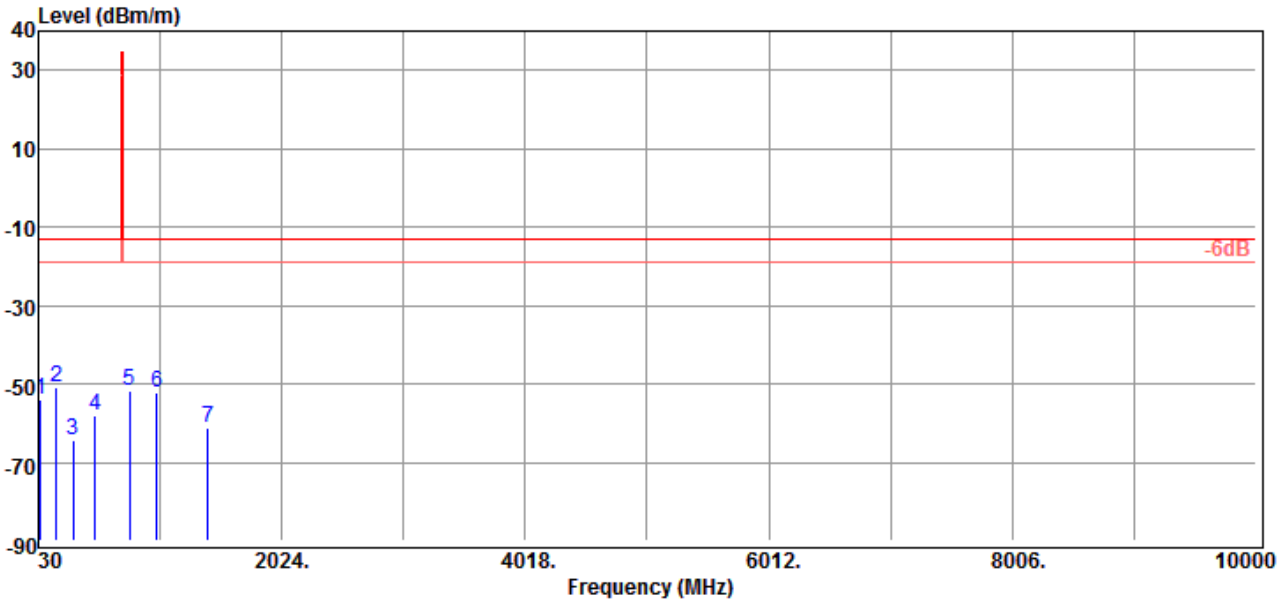
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:709 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	-54.20	-45.12	-8.45	-0.63	-13.00	-41.20
180.35	-51.07	-54.56	4.64	-1.15	-13.00	-38.07
312.27	-64.36	-68.49	5.83	-1.70	-13.00	-51.36
498.51	-58.00	-61.68	6.28	-2.60	-13.00	-45.00
776.90	-51.96	-57.20	7.50	-2.26	-13.00	-38.96
998.06	-52.39	-57.21	7.80	-2.98	-13.00	-39.39
1418.00	-61.16	-62.29	7.58	-6.45	-13.00	-48.16

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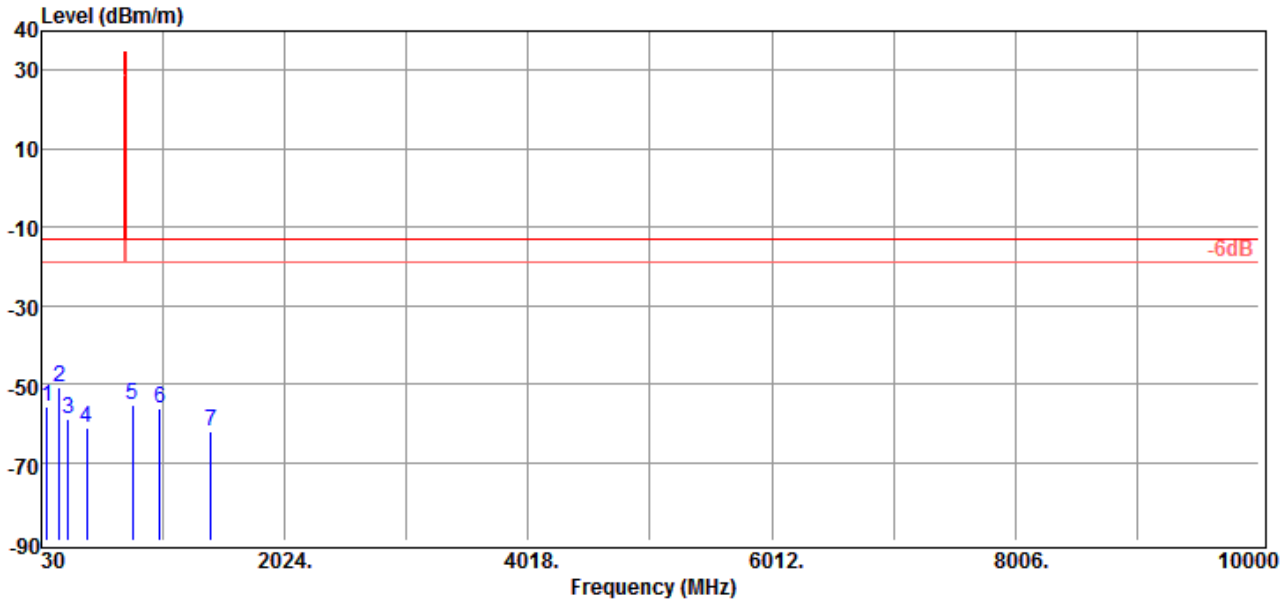
Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:709 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
78.50	-55.87	-55.75	0.65	-0.77	-13.00	-42.87
177.44	-50.64	-53.97	4.46	-1.13	-13.00	-37.64
253.10	-59.14	-62.91	5.22	-1.45	-13.00	-46.14
400.54	-61.04	-64.56	5.56	-2.04	-13.00	-48.04
776.90	-55.48	-60.72	7.50	-2.26	-13.00	-42.48
999.03	-56.13	-60.96	7.81	-2.98	-13.00	-43.13
1418.00	-62.15	-63.28	7.58	-6.45	-13.00	-49.15

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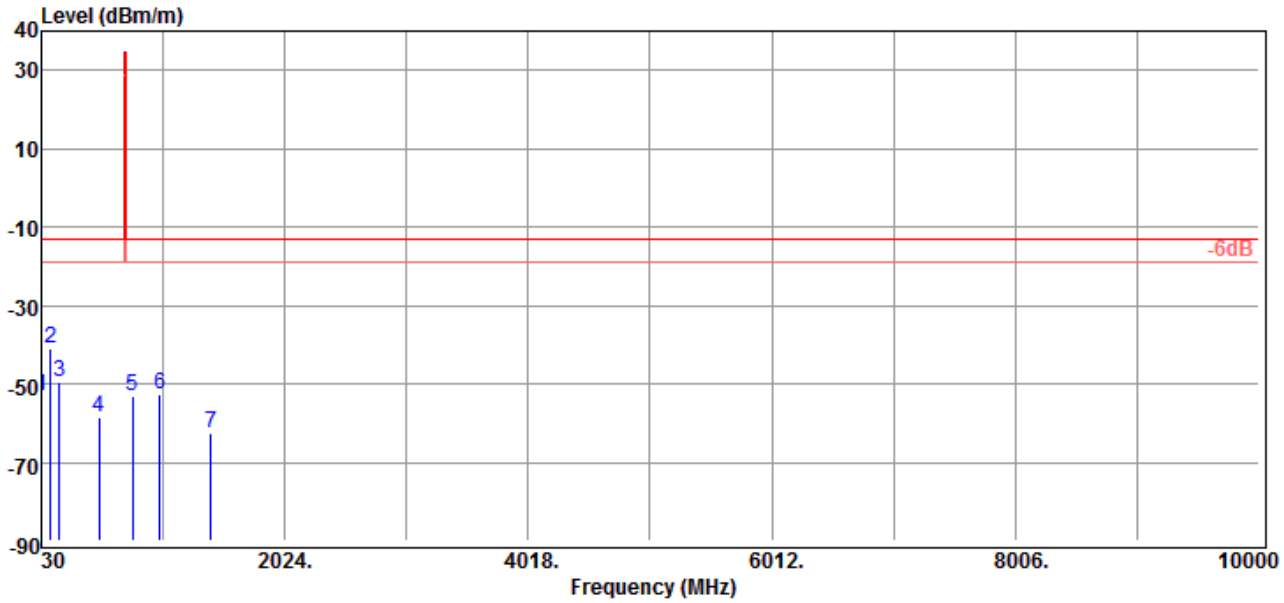
Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:710 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-53.12	-36.77	-15.83	-0.52	-13.00	-40.12
102.75	-40.82	-39.29	-0.66	-0.87	-13.00	-27.82
179.38	-49.46	-52.90	4.58	-1.14	-13.00	-36.46
499.48	-58.64	-62.32	6.29	-2.61	-13.00	-45.64
777.87	-53.07	-58.30	7.50	-2.27	-13.00	-40.07
999.03	-52.65	-57.48	7.81	-2.98	-13.00	-39.65
1420.00	-62.39	-63.52	7.59	-6.46	-13.00	-49.39

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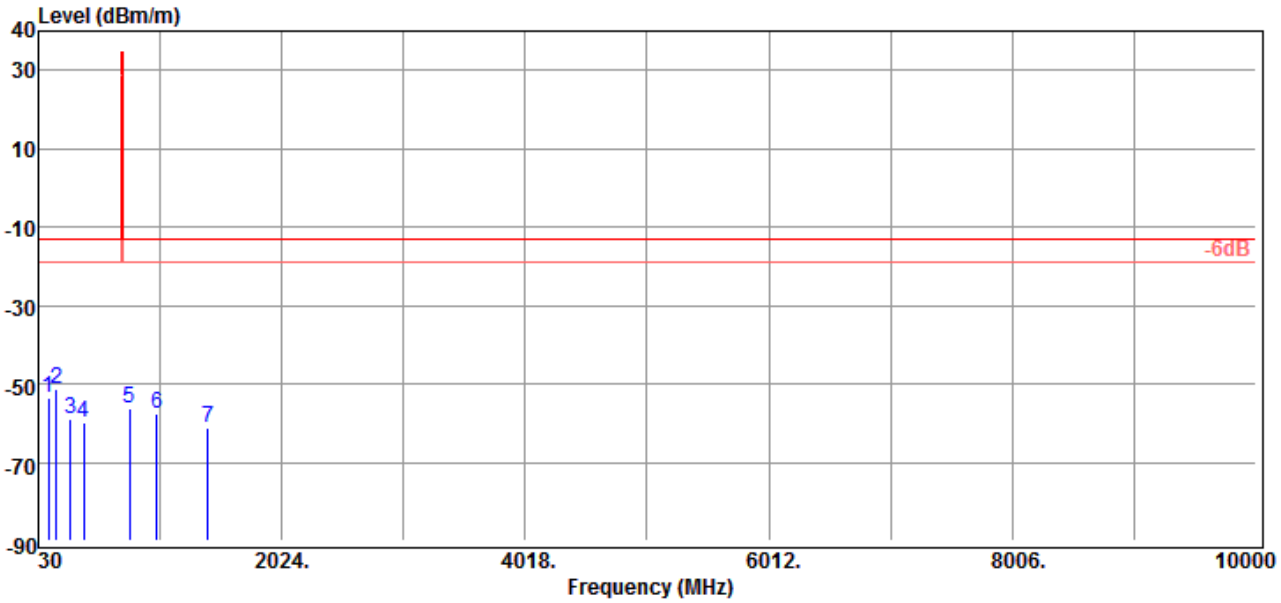
Member of SGS Group

Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:710 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-53.60	-52.59	-0.12	-0.89	-13.00	-40.60
181.32	-51.15	-54.71	4.71	-1.15	-13.00	-38.15
289.96	-59.00	-63.14	5.72	-1.58	-13.00	-46.00
399.57	-59.94	-63.45	5.55	-2.04	-13.00	-46.94
777.87	-56.06	-61.29	7.50	-2.27	-13.00	-43.06
998.06	-57.45	-62.27	7.80	-2.98	-13.00	-44.45
1420.00	-61.37	-62.50	7.59	-6.46	-13.00	-48.37

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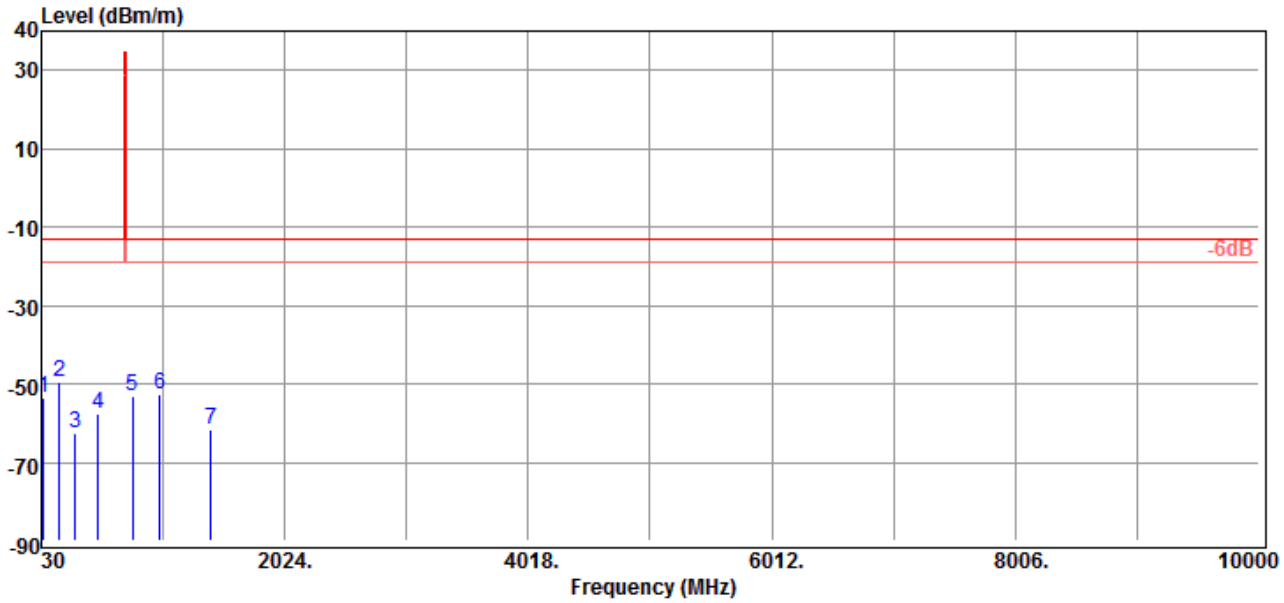
Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-53.38	-44.30	-8.45	-0.63	-13.00	-40.38
179.38	-49.37	-52.81	4.58	-1.14	-13.00	-36.37
308.39	-62.67	-66.83	5.84	-1.68	-13.00	-49.67
498.51	-57.84	-61.52	6.28	-2.60	-13.00	-44.84
776.90	-53.03	-58.27	7.50	-2.26	-13.00	-40.03
999.03	-52.49	-57.32	7.81	-2.98	-13.00	-39.49
1422.00	-61.83	-62.97	7.60	-6.46	-13.00	-48.83

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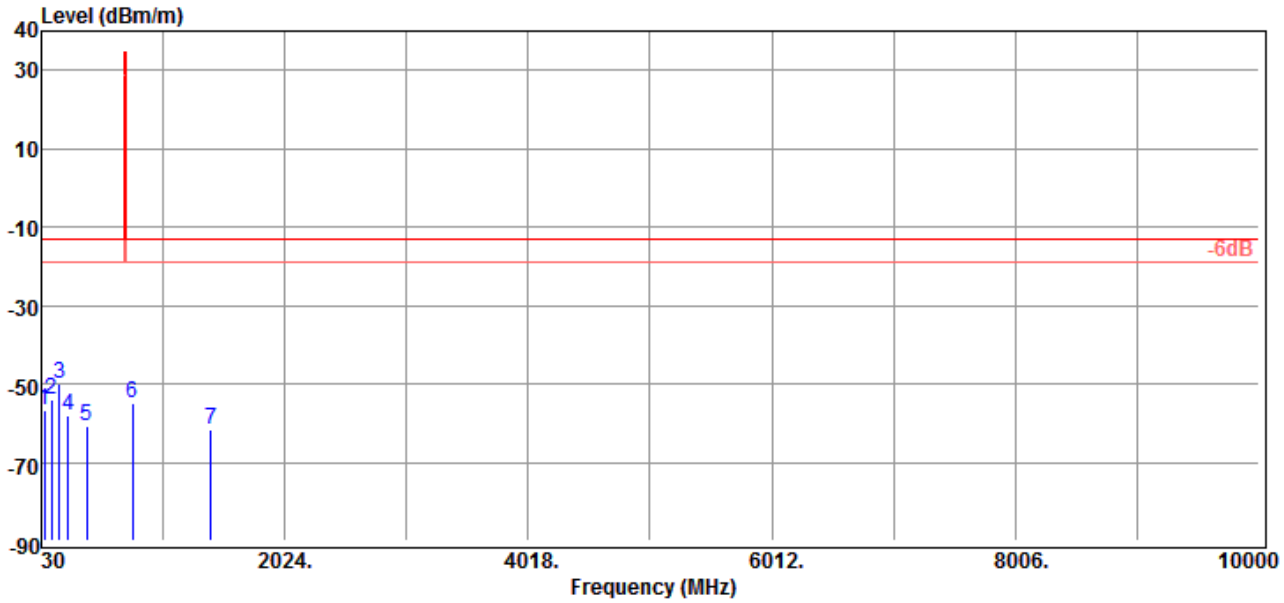
Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-56.77	-54.26	-1.86	-0.65	-13.00	-43.77
109.54	-54.21	-53.20	-0.12	-0.89	-13.00	-41.21
179.38	-49.77	-53.21	4.58	-1.14	-13.00	-36.77
248.25	-58.28	-62.04	5.19	-1.43	-13.00	-45.28
402.48	-60.78	-64.32	5.58	-2.04	-13.00	-47.78
776.90	-54.70	-59.94	7.50	-2.26	-13.00	-41.70
1422.00	-61.66	-62.80	7.60	-6.46	-13.00	-48.66

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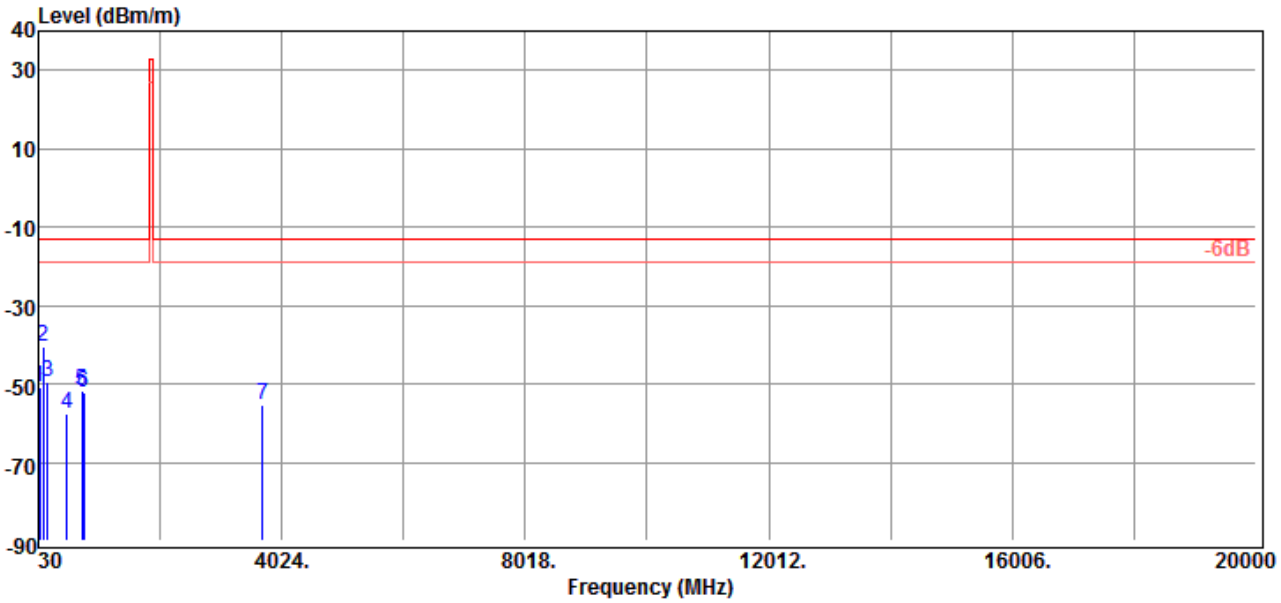
Radiated Spurious Emission Measurement Result: LTE-Band 25 (The Worst Case)

Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1855 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	-50.96	-41.88	-8.45	-0.63	-13.00	-37.96
110.51	-40.42	-39.48	-0.05	-0.89	-13.00	-27.42
178.41	-49.40	-52.78	4.52	-1.14	-13.00	-36.40
498.51	-57.45	-61.13	6.28	-2.60	-13.00	-44.45
745.86	-51.87	-57.20	7.40	-2.07	-13.00	-38.87
776.90	-52.12	-57.36	7.50	-2.26	-13.00	-39.12
3710.00	-55.41	-56.70	12.14	-10.85	-13.00	-42.41

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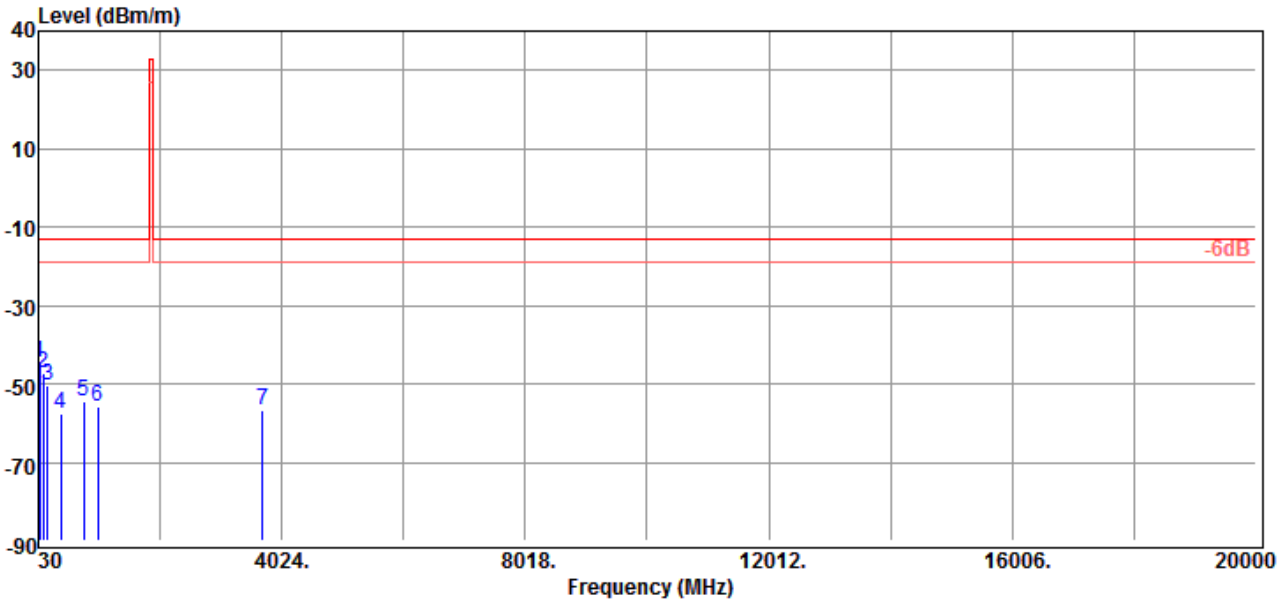
Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1855 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-44.61	-35.53	-8.45	-0.63	-13.00	-31.61
109.54	-47.27	-46.26	-0.12	-0.89	-13.00	-34.27
178.41	-50.35	-53.73	4.52	-1.14	-13.00	-37.35
396.66	-57.83	-61.37	5.57	-2.03	-13.00	-44.83
776.90	-54.41	-59.65	7.50	-2.26	-13.00	-41.41
999.03	-55.66	-60.49	7.81	-2.98	-13.00	-42.66
3710.00	-56.89	-58.18	12.14	-10.85	-13.00	-43.89

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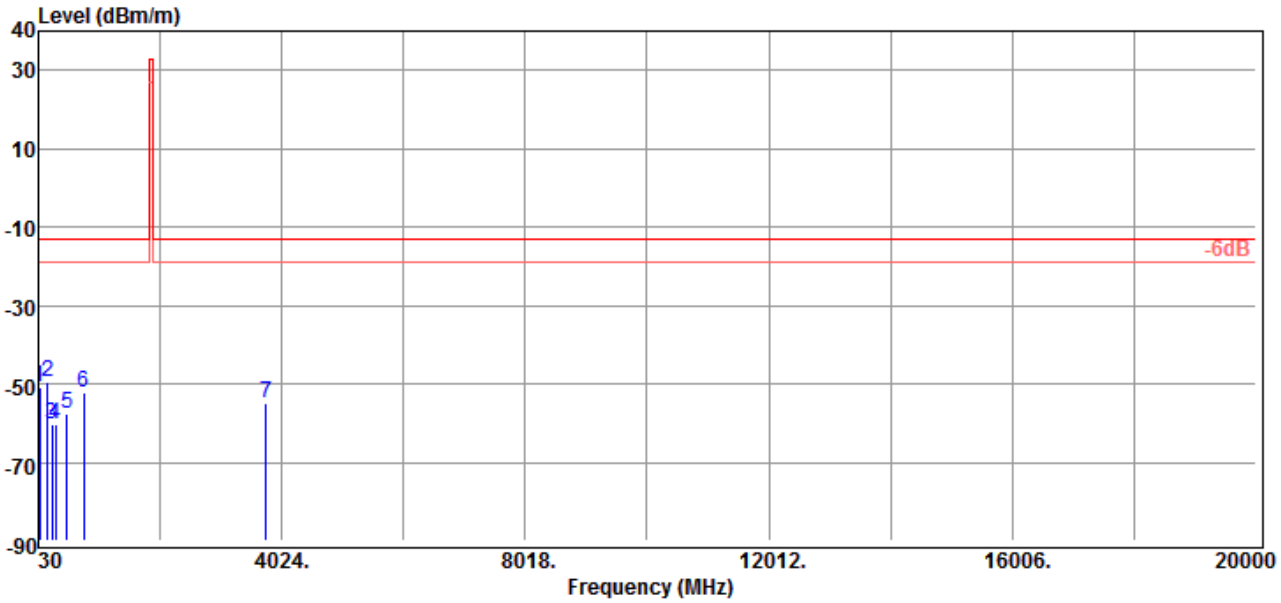
Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-50.68	-41.60	-8.45	-0.63	-13.00	-37.68
179.38	-49.46	-52.90	4.58	-1.14	-13.00	-36.46
250.19	-60.50	-64.23	5.17	-1.44	-13.00	-47.50
312.27	-60.23	-64.36	5.83	-1.70	-13.00	-47.23
498.51	-57.43	-61.11	6.28	-2.60	-13.00	-44.43
776.90	-52.08	-57.32	7.50	-2.26	-13.00	-39.08
3765.00	-55.14	-56.42	12.15	-10.87	-13.00	-42.14

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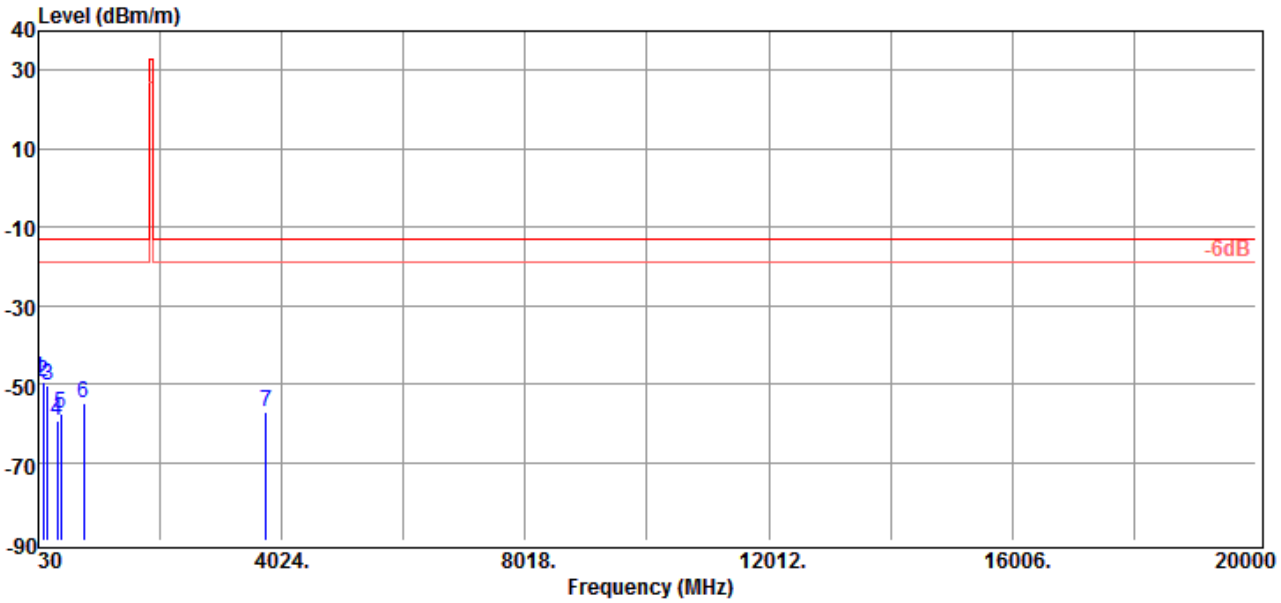
Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1882.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-48.57	-38.78	-9.17	-0.62	-13.00	-35.57
109.54	-49.51	-48.50	-0.12	-0.89	-13.00	-36.51
179.38	-50.25	-53.69	4.58	-1.14	-13.00	-37.25
335.55	-59.29	-63.25	5.81	-1.85	-13.00	-46.29
402.48	-57.72	-61.26	5.58	-2.04	-13.00	-44.72
776.90	-54.79	-60.03	7.50	-2.26	-13.00	-41.79
3765.00	-57.30	-58.58	12.15	-10.87	-13.00	-44.30

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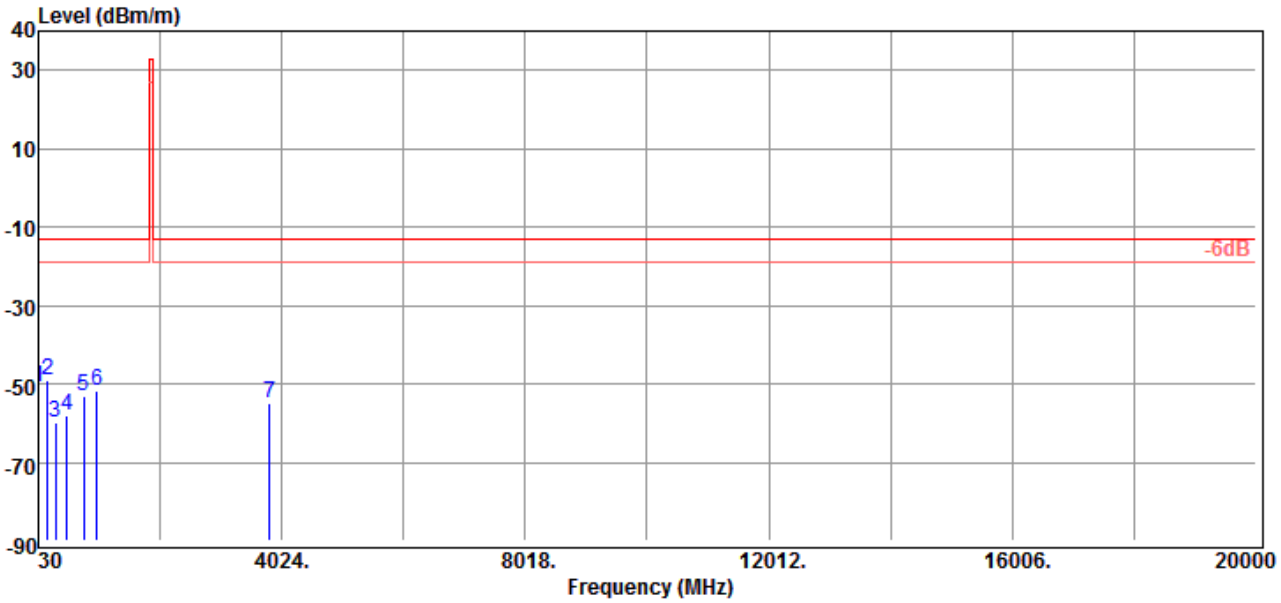
Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1910 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-50.76	-40.97	-9.17	-0.62	-13.00	-37.76
179.38	-49.16	-52.60	4.58	-1.14	-13.00	-36.16
313.24	-60.07	-64.19	5.83	-1.71	-13.00	-47.07
499.48	-57.98	-61.66	6.29	-2.61	-13.00	-44.98
776.90	-52.94	-58.18	7.50	-2.26	-13.00	-39.94
997.09	-51.89	-56.72	7.80	-2.97	-13.00	-38.89
3820.00	-55.13	-56.41	12.17	-10.89	-13.00	-42.13

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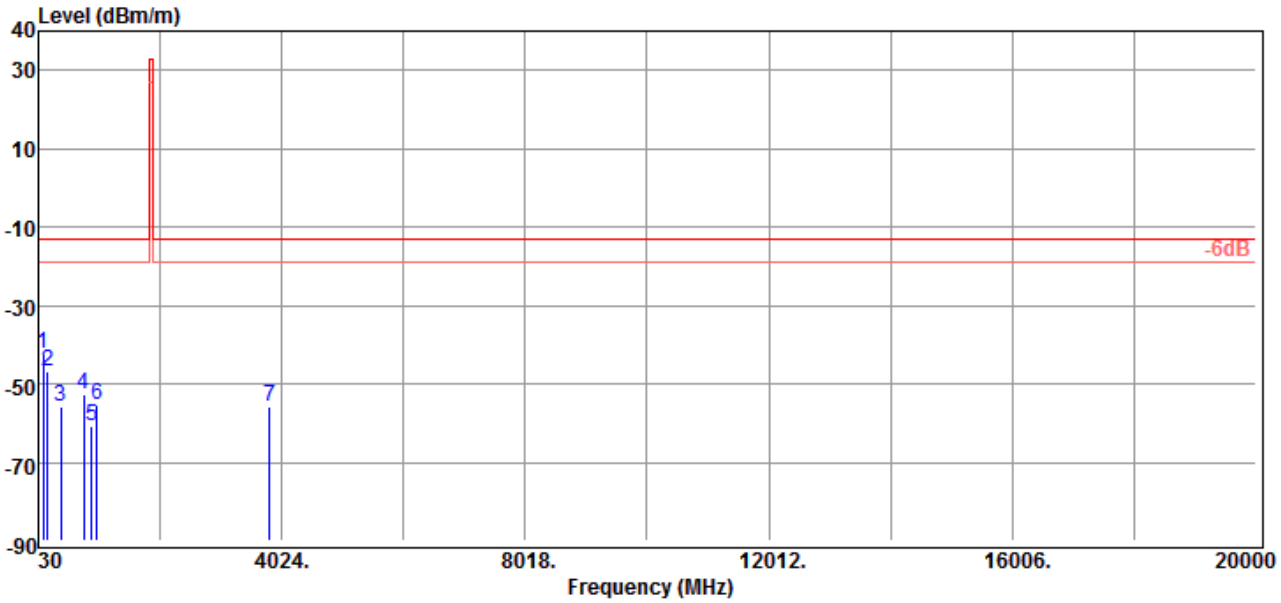
Operation Mode	:LTEB25 10M QPSK RB 1,49	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1910 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.57	-42.15	-41.06	-0.20	-0.89	-13.00	-29.15
178.41	-46.89	-50.27	4.52	-1.14	-13.00	-33.89
398.60	-55.91	-59.43	5.56	-2.04	-13.00	-42.91
776.90	-52.83	-58.07	7.50	-2.26	-13.00	-39.83
902.03	-60.75	-65.89	7.59	-2.45	-13.00	-47.75
996.12	-55.25	-60.08	7.80	-2.97	-13.00	-42.25
3820.00	-55.89	-57.17	12.17	-10.89	-13.00	-42.89

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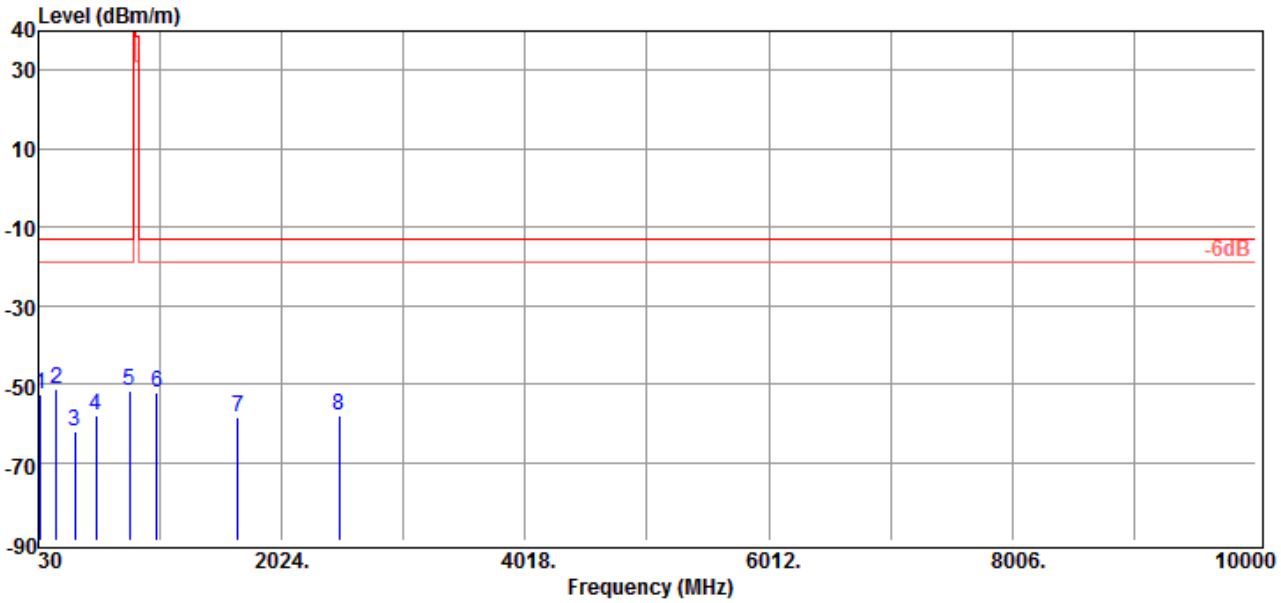
Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
45.52	-52.85	-44.46	-7.76	-0.63	-13.00	-39.85
181.32	-51.43	-54.99	4.71	-1.15	-13.00	-38.43
329.73	-62.31	-66.30	5.81	-1.82	-13.00	-49.31
499.48	-58.14	-61.82	6.29	-2.61	-13.00	-45.14
776.90	-51.79	-57.03	7.50	-2.26	-13.00	-38.79
1000.00	-52.39	-57.21	7.81	-2.99	-13.00	-39.39
1663.00	-58.49	-59.73	8.62	-7.38	-13.00	-45.49
2494.50	-58.21	-59.78	10.59	-9.02	-13.00	-45.21

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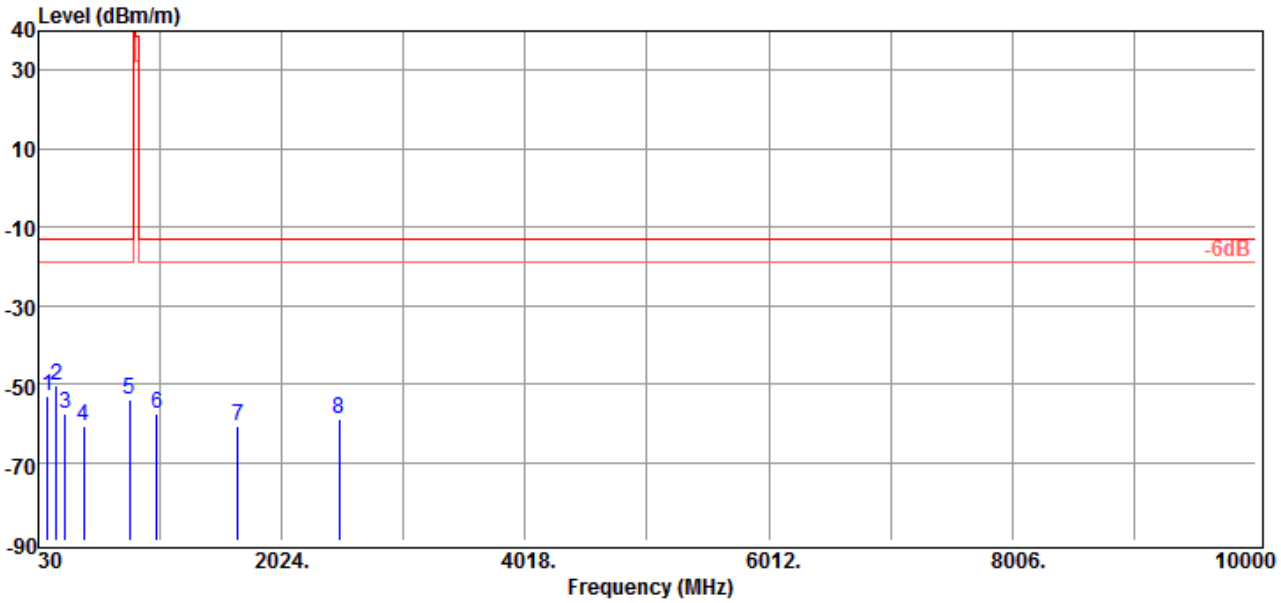
Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:831.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
104.69	-53.03	-51.65	-0.50	-0.88	-13.00	-40.03
179.38	-50.29	-53.73	4.58	-1.14	-13.00	-37.29
251.16	-57.50	-61.25	5.19	-1.44	-13.00	-44.50
399.57	-60.74	-64.25	5.55	-2.04	-13.00	-47.74
776.90	-54.18	-59.42	7.50	-2.26	-13.00	-41.18
997.09	-57.73	-62.56	7.80	-2.97	-13.00	-44.73
1663.00	-60.76	-62.00	8.62	-7.38	-13.00	-47.76
2494.50	-59.02	-60.59	10.59	-9.02	-13.00	-46.02

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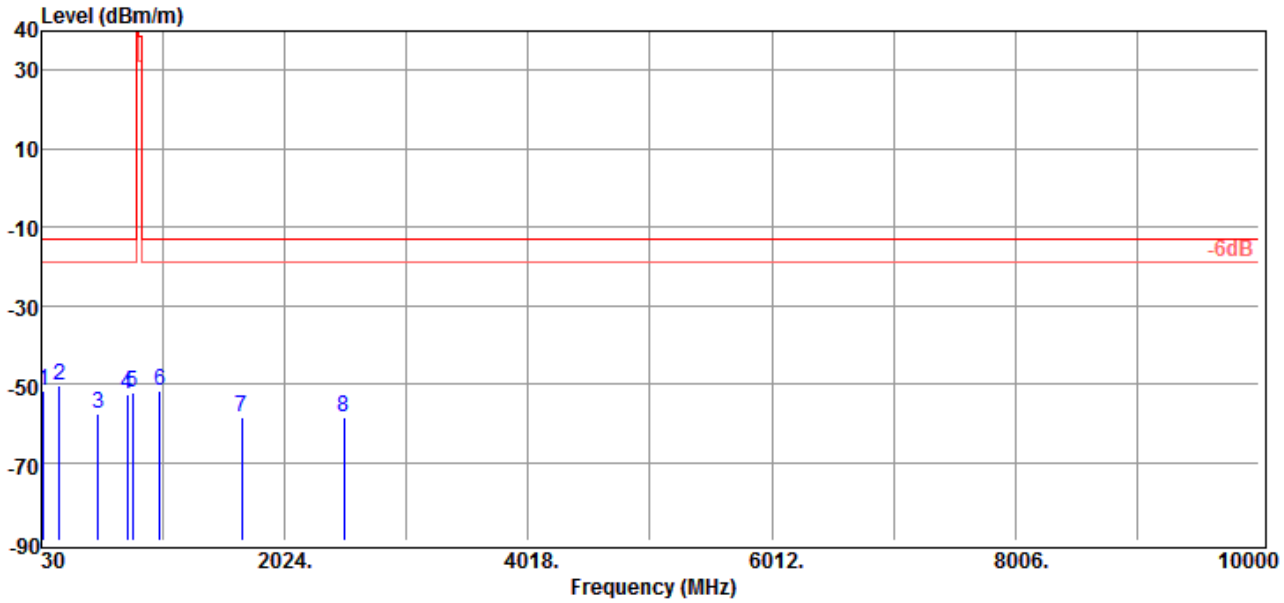
Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
49.40	-51.90	-46.14	-5.10	-0.66	-13.00	-38.90
179.38	-50.54	-53.98	4.58	-1.14	-13.00	-37.54
498.51	-57.82	-61.50	6.28	-2.60	-13.00	-44.82
730.34	-52.74	-57.97	7.37	-2.14	-13.00	-39.74
776.90	-52.40	-57.64	7.50	-2.26	-13.00	-39.40
1000.00	-51.81	-56.63	7.81	-2.99	-13.00	-38.81
1673.00	-58.40	-59.64	8.66	-7.42	-13.00	-45.40
2509.50	-58.60	-60.16	10.61	-9.05	-13.00	-45.60

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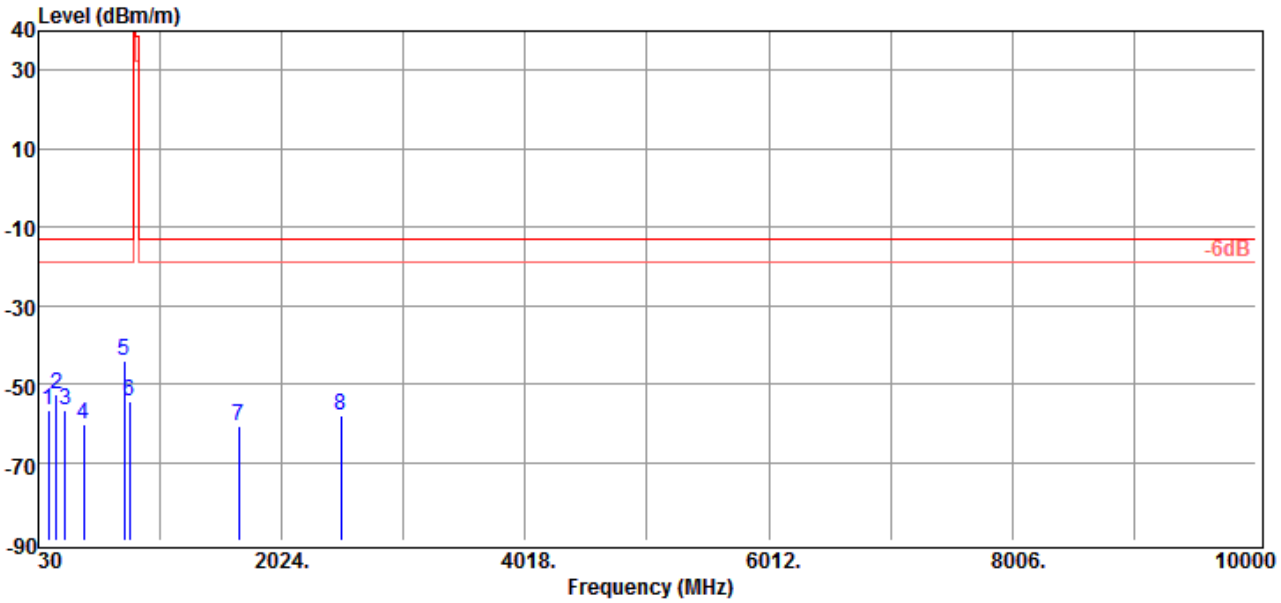
Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-56.75	-55.74	-0.12	-0.89	-13.00	-43.75
177.44	-52.88	-56.21	4.46	-1.13	-13.00	-39.88
248.25	-56.49	-60.25	5.19	-1.43	-13.00	-43.49
401.51	-60.18	-63.71	5.57	-2.04	-13.00	-47.18
731.31	-44.18	-49.41	7.37	-2.14	-13.00	-31.18
776.90	-54.67	-59.91	7.50	-2.26	-13.00	-41.67
1673.00	-60.73	-61.97	8.66	-7.42	-13.00	-47.73
2509.50	-58.07	-59.63	10.61	-9.05	-13.00	-45.07

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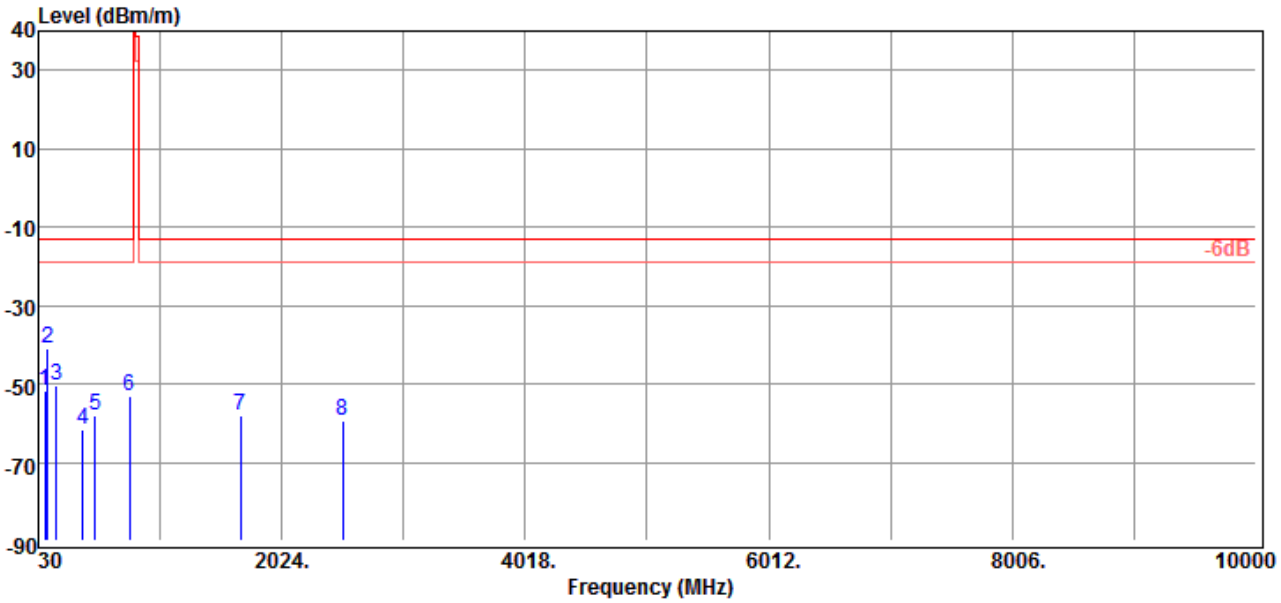
Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.26	-51.87	-51.31	0.24	-0.80	-13.00	-38.87
105.66	-40.89	-39.58	-0.43	-0.88	-13.00	-27.89
180.35	-50.23	-53.72	4.64	-1.15	-13.00	-37.23
397.63	-61.73	-65.25	5.56	-2.04	-13.00	-48.73
498.51	-58.16	-61.84	6.28	-2.60	-13.00	-45.16
777.87	-53.00	-58.23	7.50	-2.27	-13.00	-40.00
1683.00	-58.24	-59.48	8.70	-7.46	-13.00	-45.24
2524.50	-59.42	-60.94	10.62	-9.10	-13.00	-46.42

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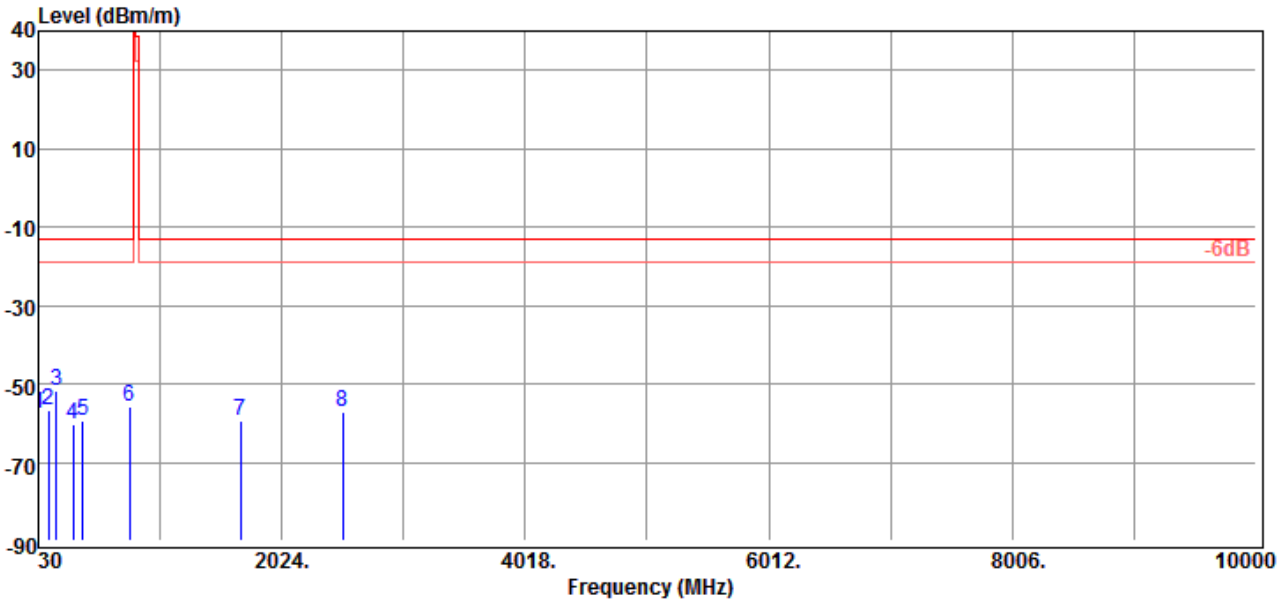
Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.61	-38.00	-19.15	-0.46	-13.00	-44.61
109.54	-56.53	-55.52	-0.12	-0.89	-13.00	-43.53
176.47	-51.94	-55.20	4.39	-1.13	-13.00	-38.94
313.24	-60.42	-64.54	5.83	-1.71	-13.00	-47.42
397.63	-59.61	-63.13	5.56	-2.04	-13.00	-46.61
776.90	-55.65	-60.89	7.50	-2.26	-13.00	-42.65
1683.00	-59.61	-60.85	8.70	-7.46	-13.00	-46.61
2524.50	-57.25	-58.77	10.62	-9.10	-13.00	-44.25

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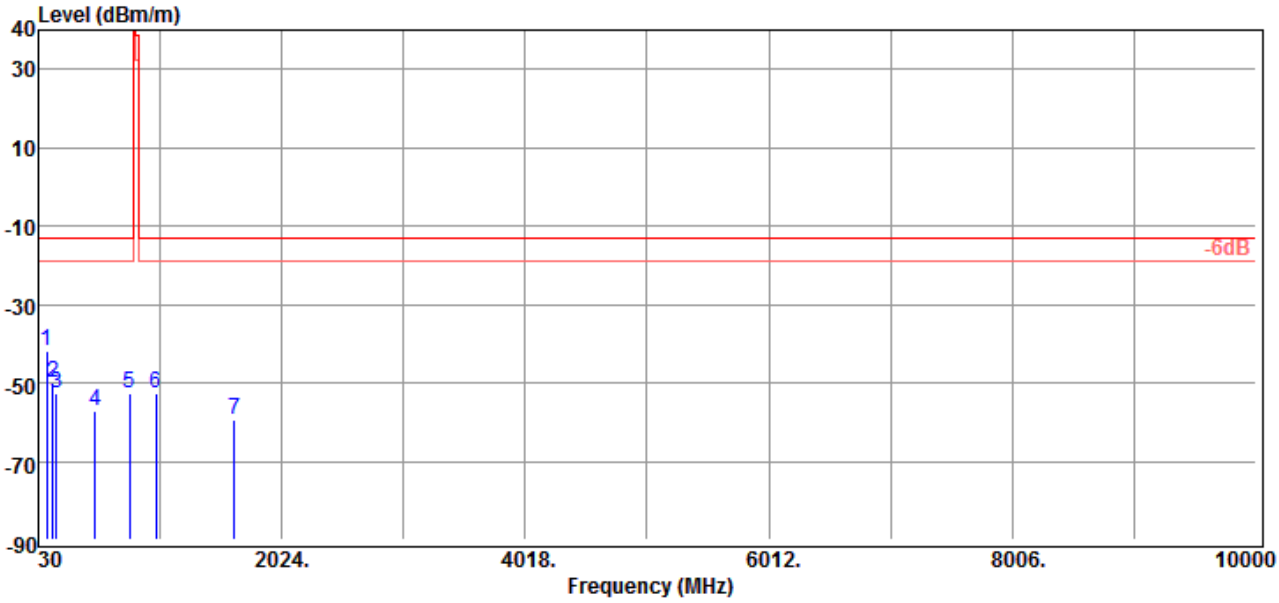
Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
100.81	-41.82	-40.13	-0.82	-0.87	-13.00	-28.82
152.22	-49.97	-51.66	2.70	-1.01	-13.00	-36.97
180.35	-52.46	-55.95	4.64	-1.15	-13.00	-39.46
498.51	-57.30	-60.98	6.28	-2.60	-13.00	-44.30
776.90	-52.63	-57.87	7.50	-2.26	-13.00	-39.63
996.12	-52.81	-57.64	7.80	-2.97	-13.00	-39.81
1633.00	-59.20	-60.44	8.49	-7.25	-13.00	-46.20

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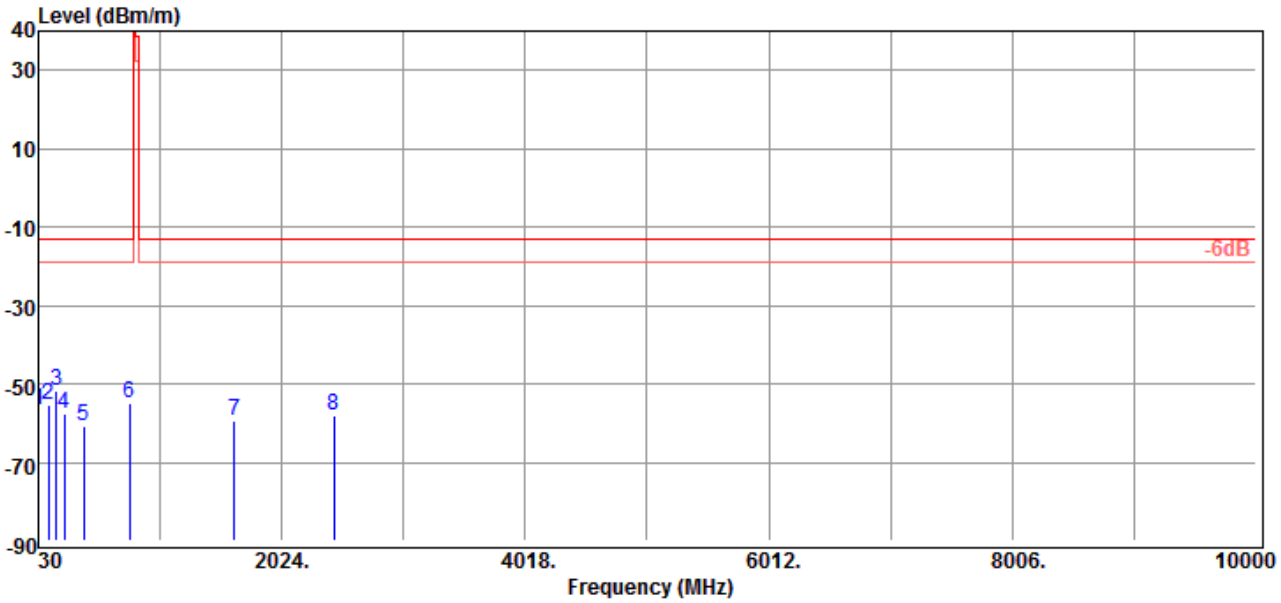
Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:816.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.88	-36.39	-20.05	-0.44	-13.00	-43.88
110.51	-55.53	-54.59	-0.05	-0.89	-13.00	-42.53
176.47	-51.76	-55.02	4.39	-1.13	-13.00	-38.76
246.31	-57.72	-61.50	5.21	-1.43	-13.00	-44.72
400.54	-60.66	-64.18	5.56	-2.04	-13.00	-47.66
776.90	-54.99	-60.23	7.50	-2.26	-13.00	-41.99
1633.00	-59.43	-60.67	8.49	-7.25	-13.00	-46.43
2449.50	-57.89	-59.44	10.54	-8.99	-13.00	-44.89

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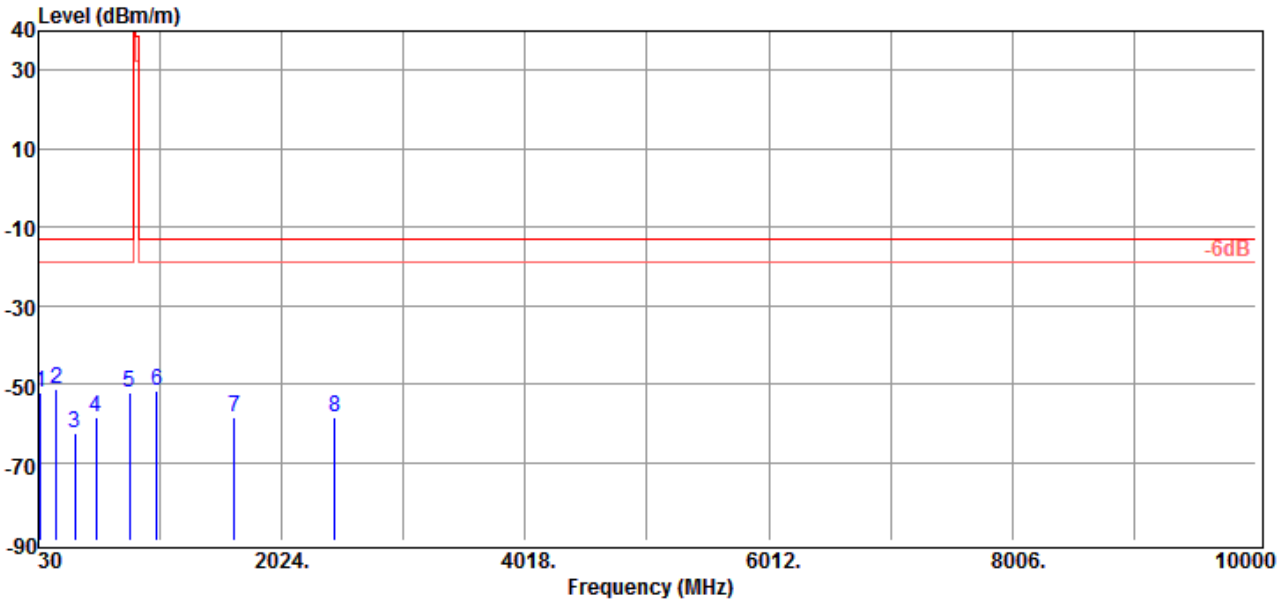
Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-52.07	-42.99	-8.45	-0.63	-13.00	-39.07
179.38	-51.42	-54.86	4.58	-1.14	-13.00	-38.42
332.64	-62.48	-66.45	5.81	-1.84	-13.00	-49.48
499.48	-58.45	-62.13	6.29	-2.61	-13.00	-45.45
776.90	-52.42	-57.66	7.50	-2.26	-13.00	-39.42
998.06	-51.79	-56.61	7.80	-2.98	-13.00	-38.79
1638.00	-58.68	-59.92	8.51	-7.27	-13.00	-45.68
2457.00	-58.48	-60.04	10.55	-8.99	-13.00	-45.48

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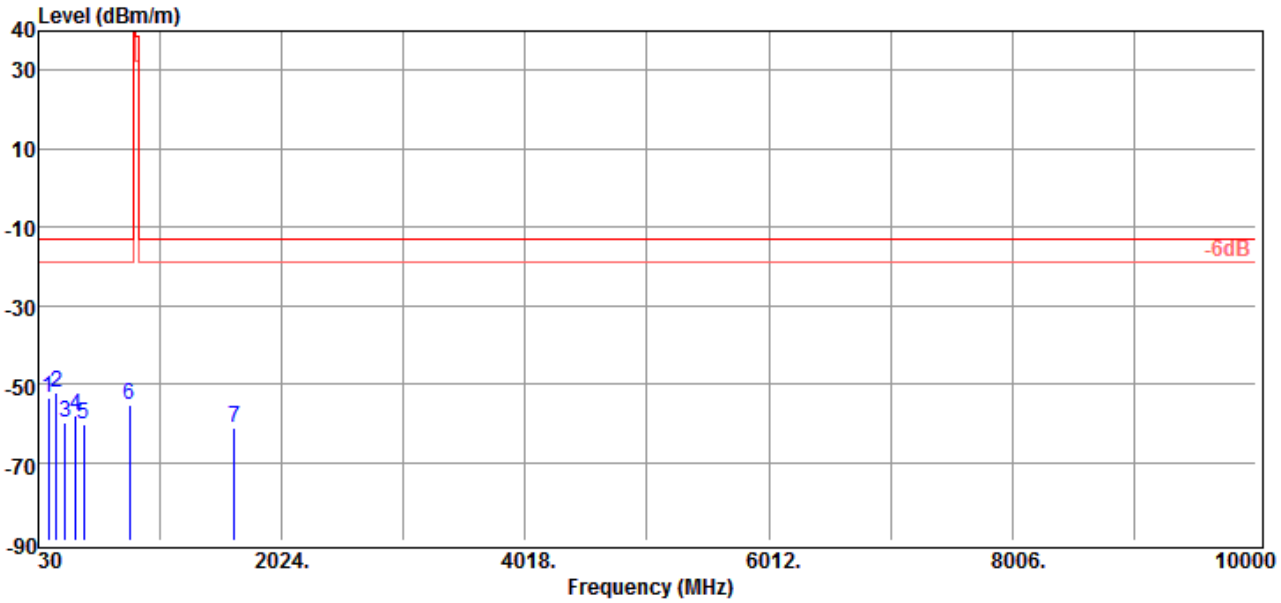
Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-53.66	-52.79	0.03	-0.90	-13.00	-40.66
177.44	-52.20	-55.53	4.46	-1.13	-13.00	-39.20
253.10	-59.72	-63.49	5.22	-1.45	-13.00	-46.72
337.49	-57.87	-61.80	5.80	-1.87	-13.00	-44.87
400.54	-60.35	-63.87	5.56	-2.04	-13.00	-47.35
776.90	-55.38	-60.62	7.50	-2.26	-13.00	-42.38
1638.00	-61.31	-62.55	8.51	-7.27	-13.00	-48.31

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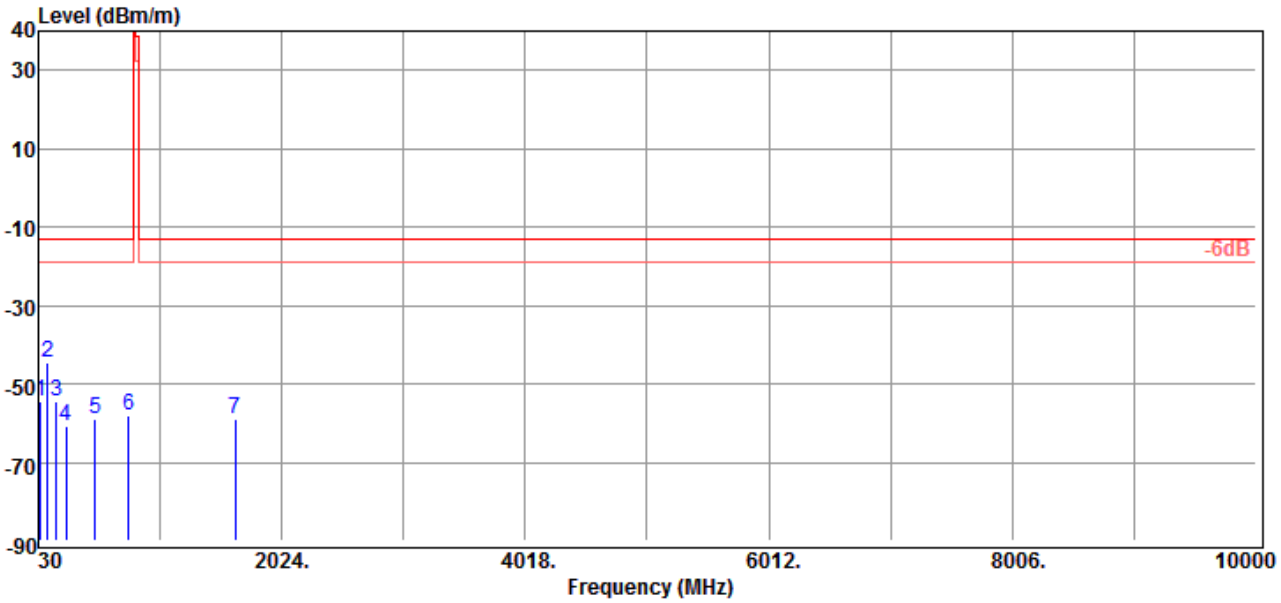
Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:821.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
45.52	-54.62	-46.23	-7.76	-0.63	-13.00	-41.62
104.69	-44.68	-43.30	-0.50	-0.88	-13.00	-31.68
179.38	-54.44	-57.88	4.58	-1.14	-13.00	-41.44
254.07	-60.78	-64.56	5.23	-1.45	-13.00	-47.78
498.51	-58.86	-62.54	6.28	-2.60	-13.00	-45.86
769.14	-58.01	-63.28	7.47	-2.20	-13.00	-45.01
1643.00	-59.09	-60.33	8.53	-7.29	-13.00	-46.09

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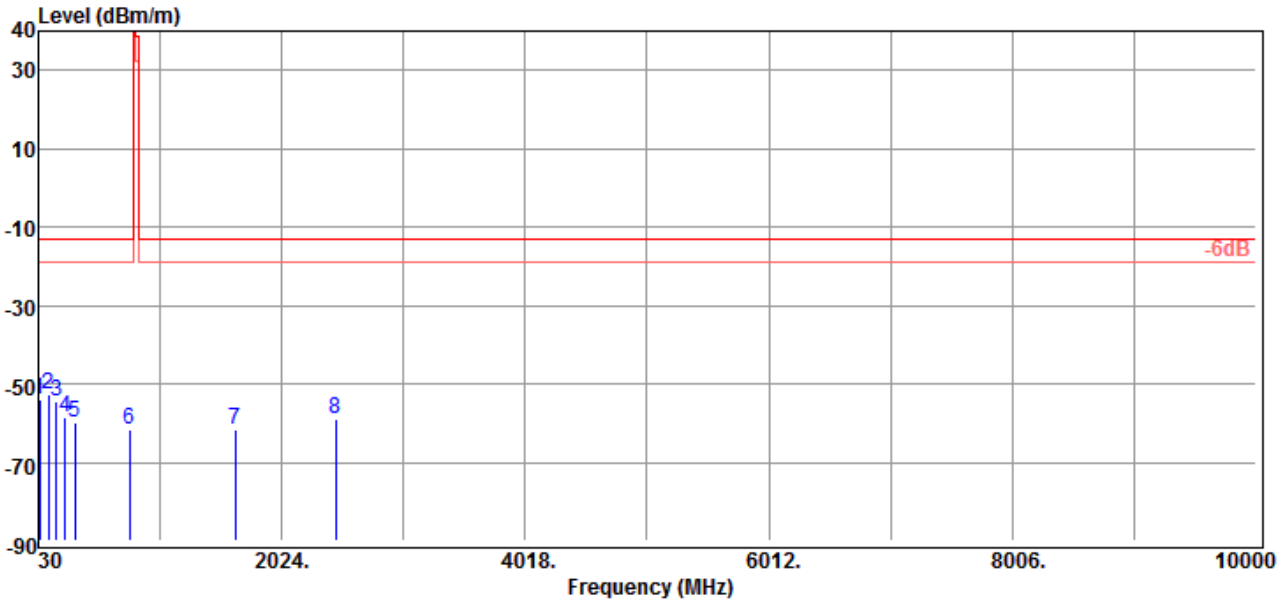
Operation Mode	:Part90 5M QPSK RB 1,24	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:821.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-54.24	-44.45	-9.17	-0.62	-13.00	-41.24
110.51	-52.69	-51.75	-0.05	-0.89	-13.00	-39.69
179.38	-54.65	-58.09	4.58	-1.14	-13.00	-41.65
251.16	-58.37	-62.12	5.19	-1.44	-13.00	-45.37
330.70	-59.64	-63.63	5.81	-1.82	-13.00	-46.64
776.90	-61.66	-66.90	7.50	-2.26	-13.00	-48.66
1643.00	-61.76	-63.00	8.53	-7.29	-13.00	-48.76
2464.50	-58.95	-60.51	10.56	-9.00	-13.00	-45.95

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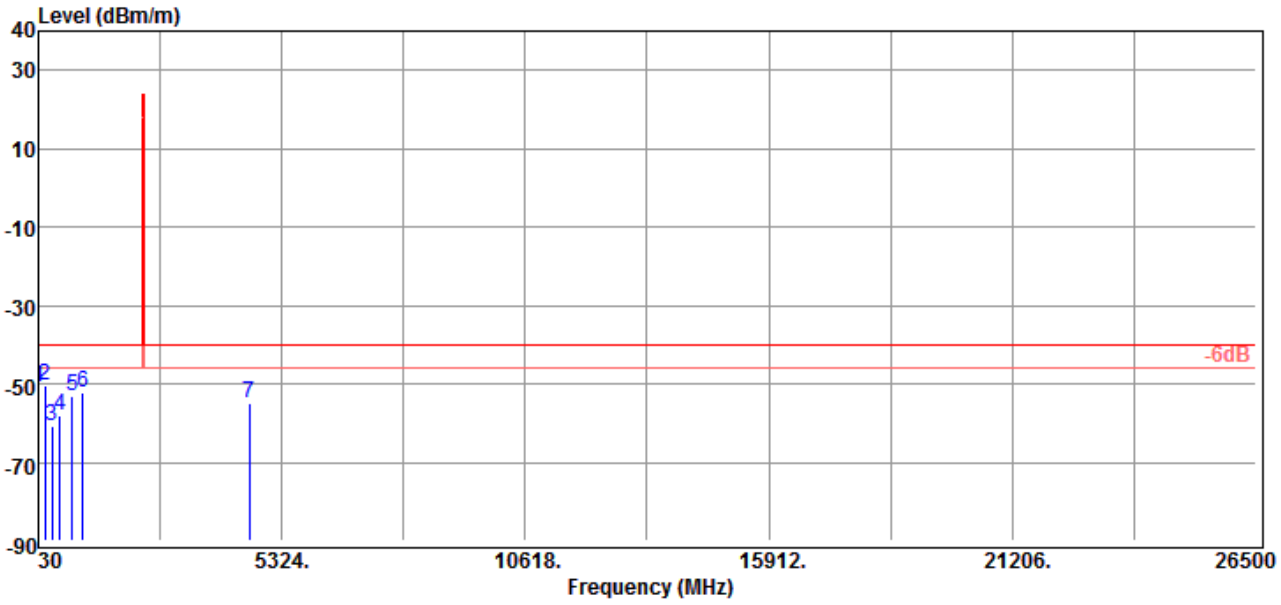
Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode	:LTEB30 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2310 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	-50.66	-41.58	-8.45	-0.63	-40.00	-10.66
178.41	-50.24	-53.62	4.52	-1.14	-40.00	-10.24
330.70	-60.75	-64.74	5.81	-1.82	-40.00	-20.75
498.51	-58.18	-61.86	6.28	-2.60	-40.00	-18.18
776.90	-53.18	-58.42	7.50	-2.26	-40.00	-13.18
997.09	-52.02	-56.85	7.80	-2.97	-40.00	-12.02
4620.00	-54.93	-55.65	12.20	-11.48	-40.00	-14.93

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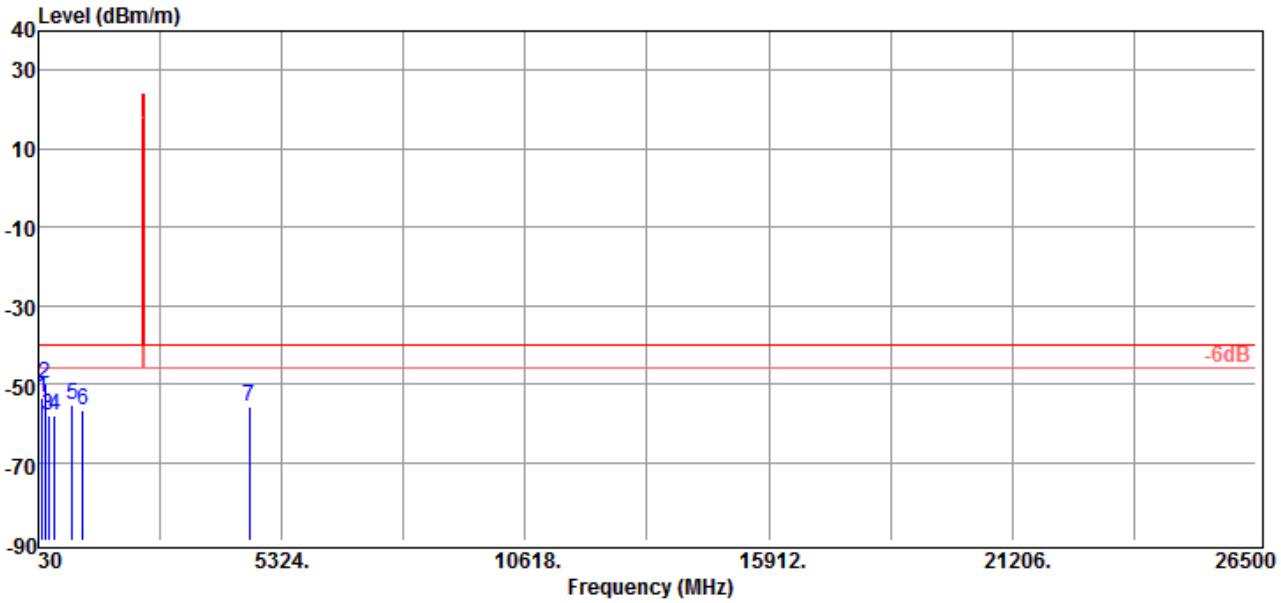
Operation Mode	:LTEB30 10M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-53.66	-52.79	0.03	-0.90	-40.00	-13.66
178.41	-50.15	-53.53	4.52	-1.14	-40.00	-10.15
244.37	-58.21	-62.03	5.24	-1.42	-40.00	-18.21
386.96	-58.11	-61.70	5.61	-2.02	-40.00	-18.11
776.90	-55.43	-60.67	7.50	-2.26	-40.00	-15.43
997.09	-56.52	-61.35	7.80	-2.97	-40.00	-16.52
4620.00	-55.77	-56.49	12.20	-11.48	-40.00	-15.77

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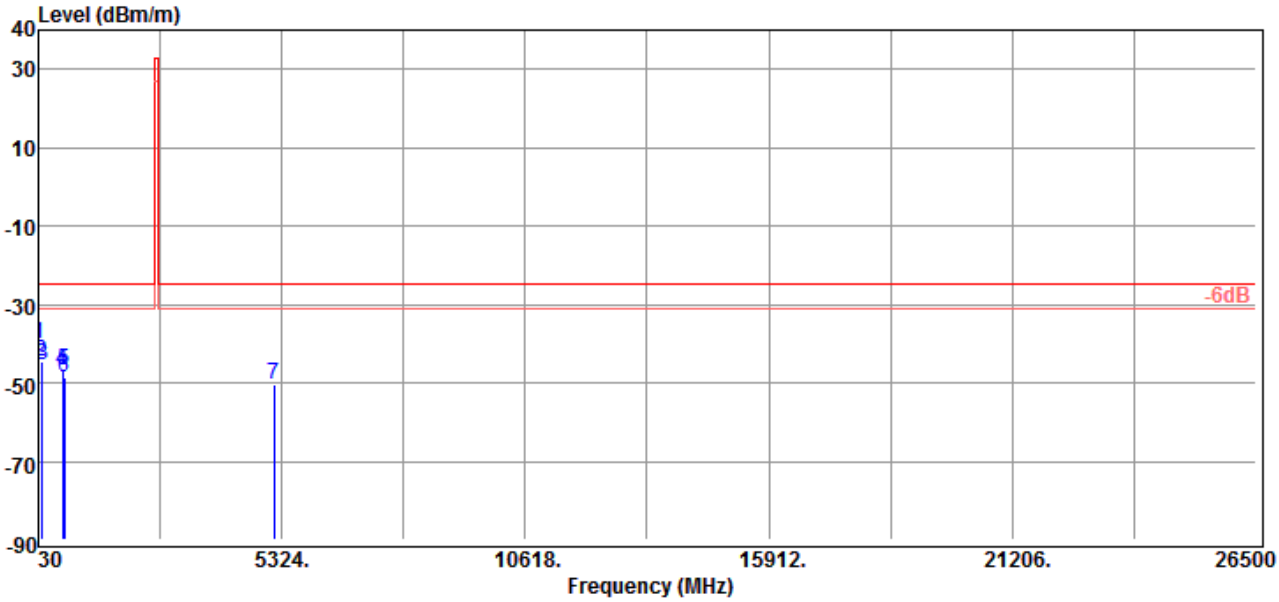
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-39.94	-22.81	-16.63	-0.50	-25.00	-14.94
95.96	-44.73	-43.34	-0.55	-0.84	-25.00	-19.73
110.51	-45.60	-44.66	-0.05	-0.89	-25.00	-20.60
556.71	-46.71	-50.67	6.28	-2.32	-25.00	-21.71
581.93	-46.95	-51.26	6.51	-2.20	-25.00	-21.95
587.75	-48.84	-53.22	6.56	-2.18	-25.00	-23.84
5160.00	-50.46	-56.46	12.67	-6.67	-25.00	-25.46

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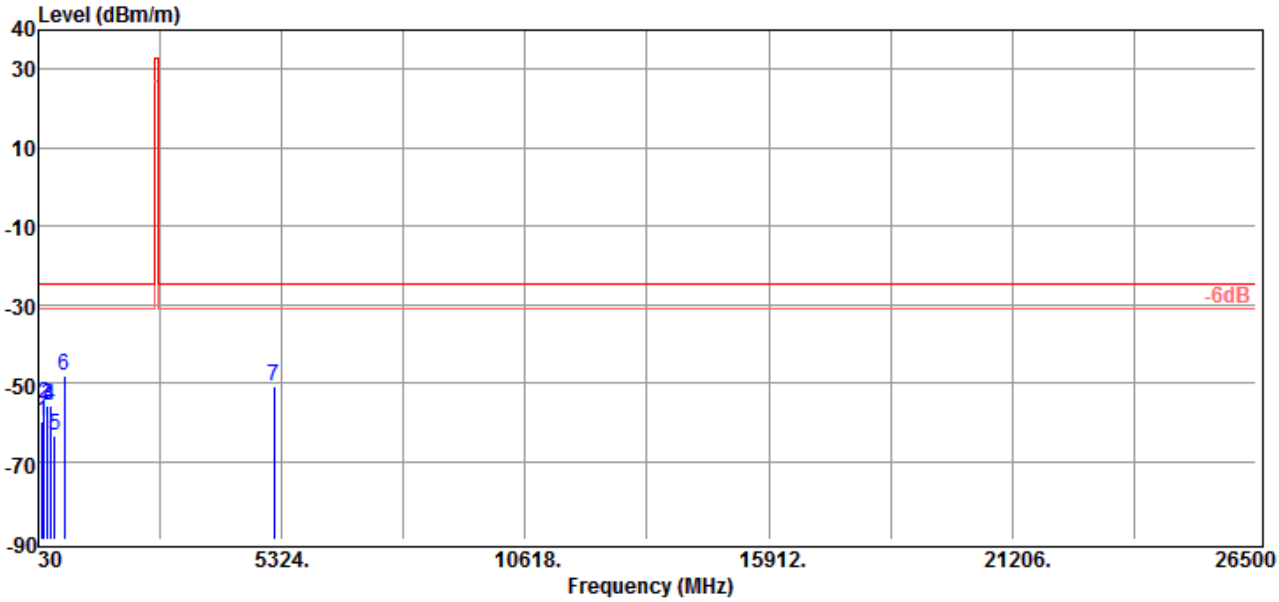
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-59.78	-58.91	0.03	-0.90	-25.00	-34.78
159.98	-55.15	-57.37	3.27	-1.05	-25.00	-30.15
230.79	-55.62	-59.67	5.41	-1.36	-25.00	-30.62
282.20	-56.00	-60.06	5.62	-1.56	-25.00	-31.00
378.23	-63.61	-67.26	5.65	-2.00	-25.00	-38.61
595.51	-48.35	-52.84	6.63	-2.14	-25.00	-23.35
5160.00	-50.88	-56.88	12.67	-6.67	-25.00	-25.88

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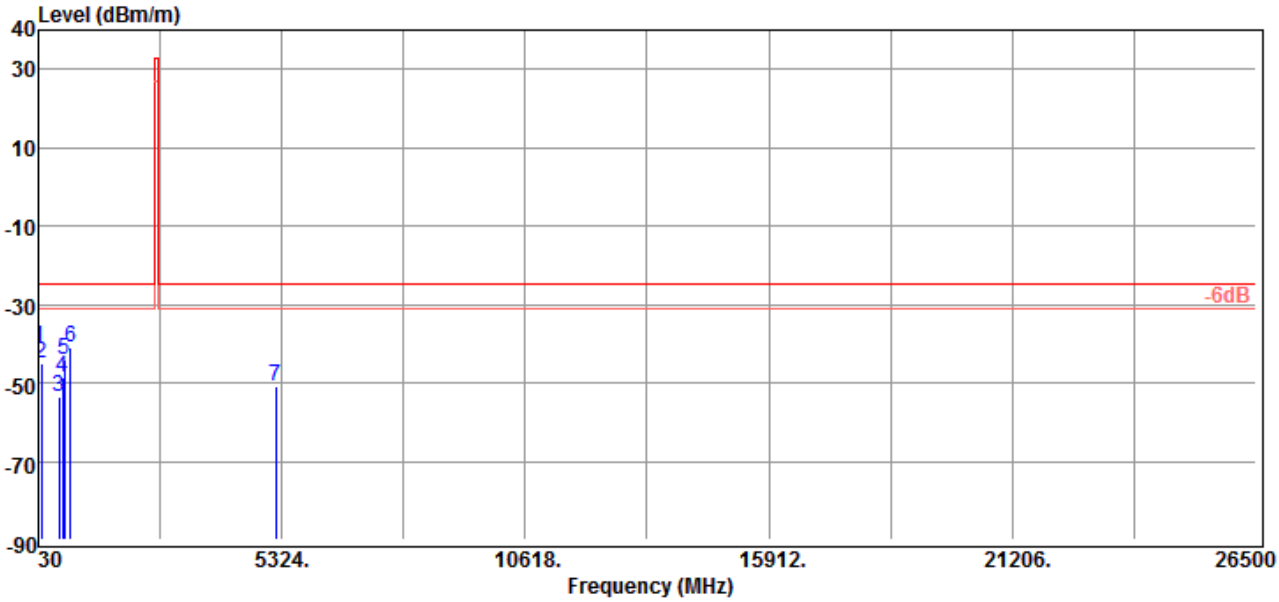
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-40.92	-25.33	-15.06	-0.53	-25.00	-15.92
94.02	-44.81	-43.61	-0.37	-0.83	-25.00	-19.81
476.20	-53.63	-57.47	6.19	-2.35	-25.00	-28.63
556.71	-48.73	-52.69	6.28	-2.32	-25.00	-23.73
601.33	-44.19	-48.74	6.68	-2.13	-25.00	-19.19
734.22	-41.15	-46.40	7.38	-2.13	-25.00	-16.15
5190.00	-50.66	-56.72	12.70	-6.64	-25.00	-25.66

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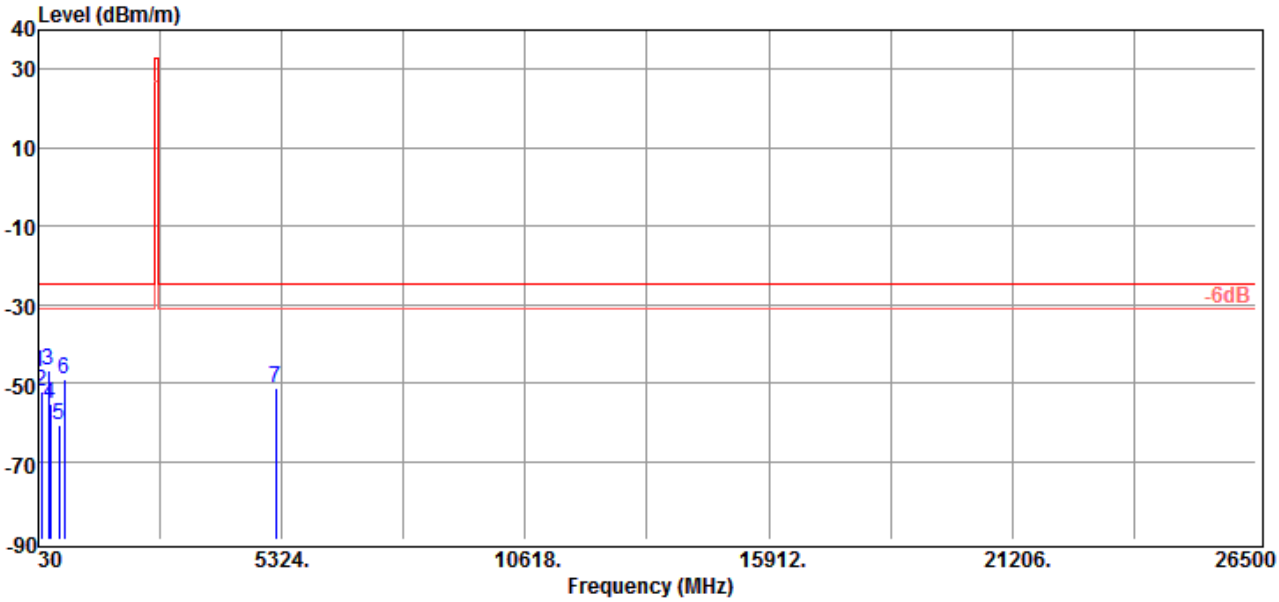
Operation Mode	:LTE B38 20M QPSK RB1,99	Test Date	:2018-11-30
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E1 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-47.43	-28.67	-18.29	-0.47	-25.00	-22.43
96.93	-52.42	-50.94	-0.63	-0.85	-25.00	-27.42
250.19	-46.87	-50.60	5.17	-1.44	-25.00	-21.87
282.20	-55.20	-59.26	5.62	-1.56	-25.00	-30.20
482.02	-60.60	-64.39	6.21	-2.42	-25.00	-35.60
601.33	-48.95	-53.50	6.68	-2.13	-25.00	-23.95
5190.00	-51.17	-57.23	12.70	-6.64	-25.00	-26.17

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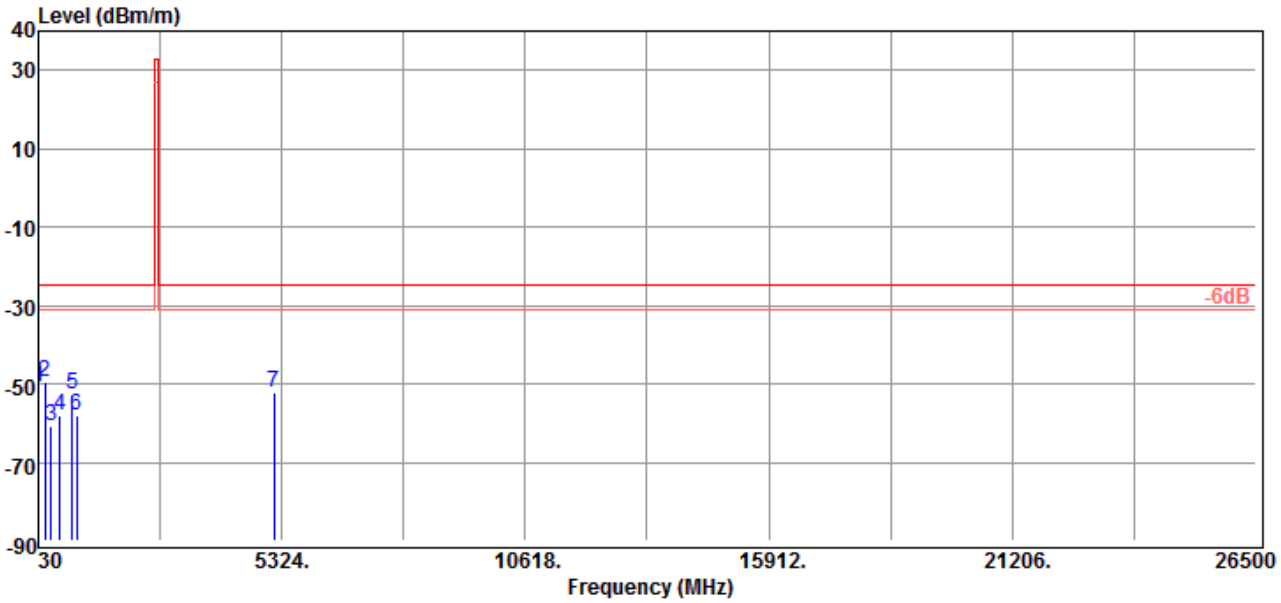
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-50.80	-41.01	-9.17	-0.62	-25.00	-25.80
178.41	-49.65	-53.03	4.52	-1.14	-25.00	-24.65
306.45	-60.73	-64.91	5.84	-1.66	-25.00	-35.73
498.51	-58.11	-61.79	6.28	-2.60	-25.00	-33.11
776.90	-52.69	-57.93	7.50	-2.26	-25.00	-27.69
857.41	-58.05	-63.19	7.51	-2.37	-25.00	-33.05
5160.00	-52.28	-52.70	12.30	-11.88	-25.00	-27.28

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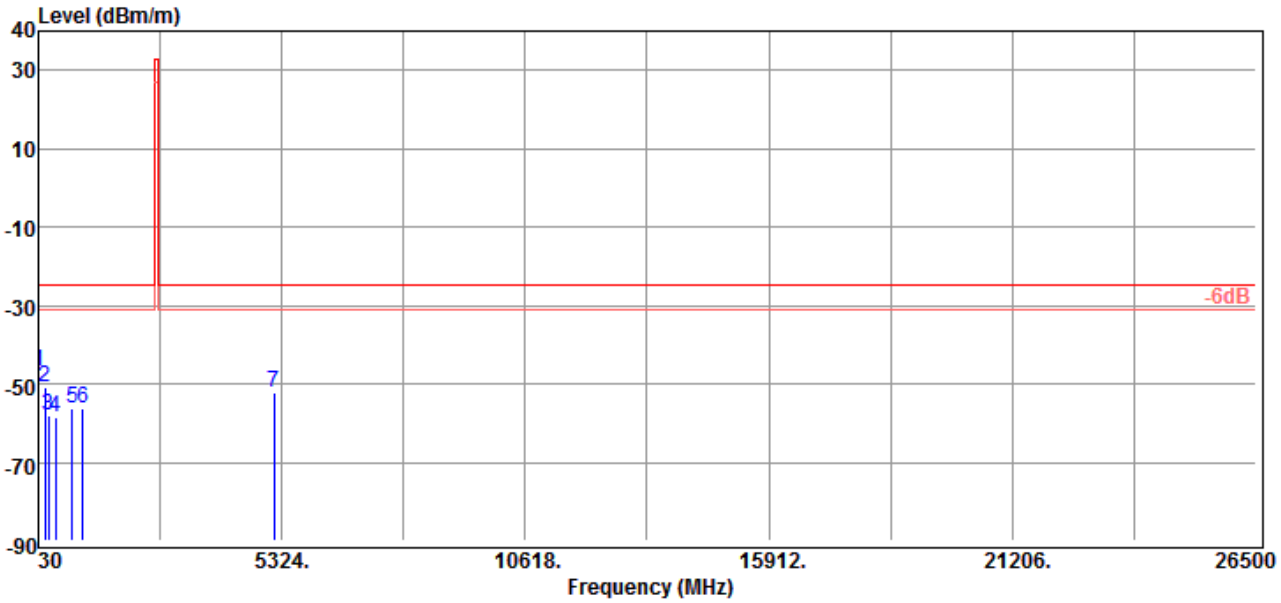
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-47.03	-37.24	-9.17	-0.62	-25.00	-22.03
175.50	-50.65	-53.86	4.33	-1.12	-25.00	-25.65
245.34	-58.25	-62.06	5.23	-1.42	-25.00	-33.25
401.51	-58.44	-61.97	5.57	-2.04	-25.00	-33.44
776.90	-56.37	-61.61	7.50	-2.26	-25.00	-31.37
1000.00	-56.25	-61.07	7.81	-2.99	-25.00	-31.25
5160.00	-52.23	-52.65	12.30	-11.88	-25.00	-27.23

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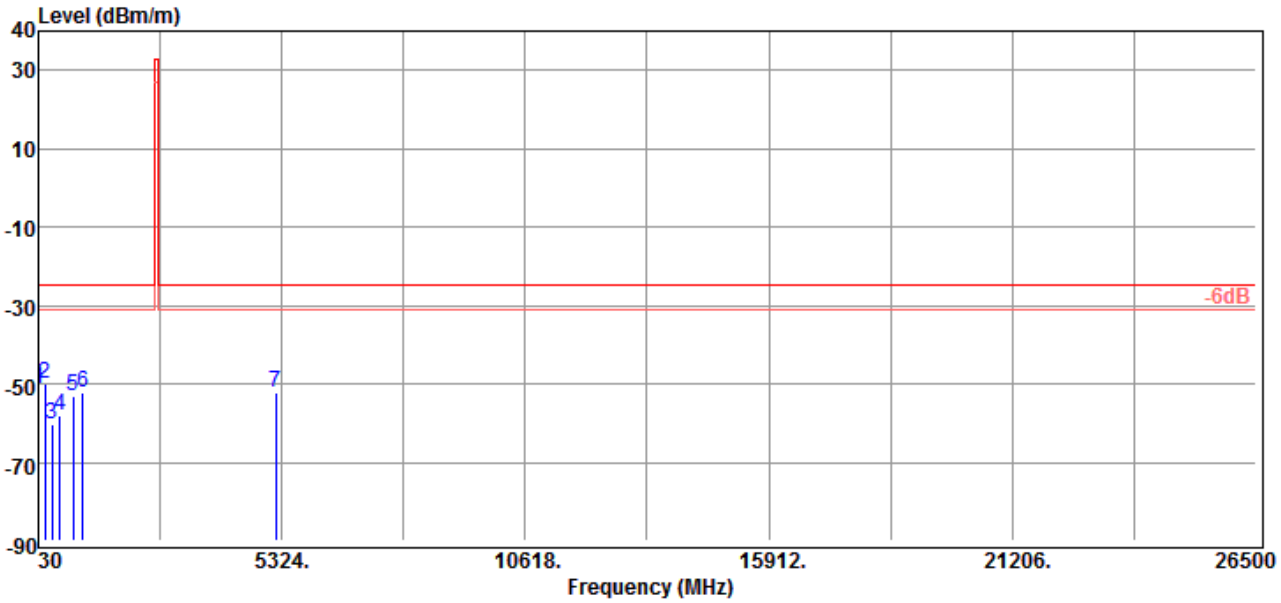
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-51.41	-42.33	-8.45	-0.63	-25.00	-26.41
180.35	-49.95	-53.44	4.64	-1.15	-25.00	-24.95
328.76	-60.22	-64.22	5.81	-1.81	-25.00	-35.22
497.54	-58.07	-61.76	6.28	-2.59	-25.00	-33.07
777.87	-53.10	-58.33	7.50	-2.27	-25.00	-28.10
998.06	-52.41	-57.23	7.80	-2.98	-25.00	-27.41
5190.00	-52.13	-52.59	12.32	-11.86	-25.00	-27.13

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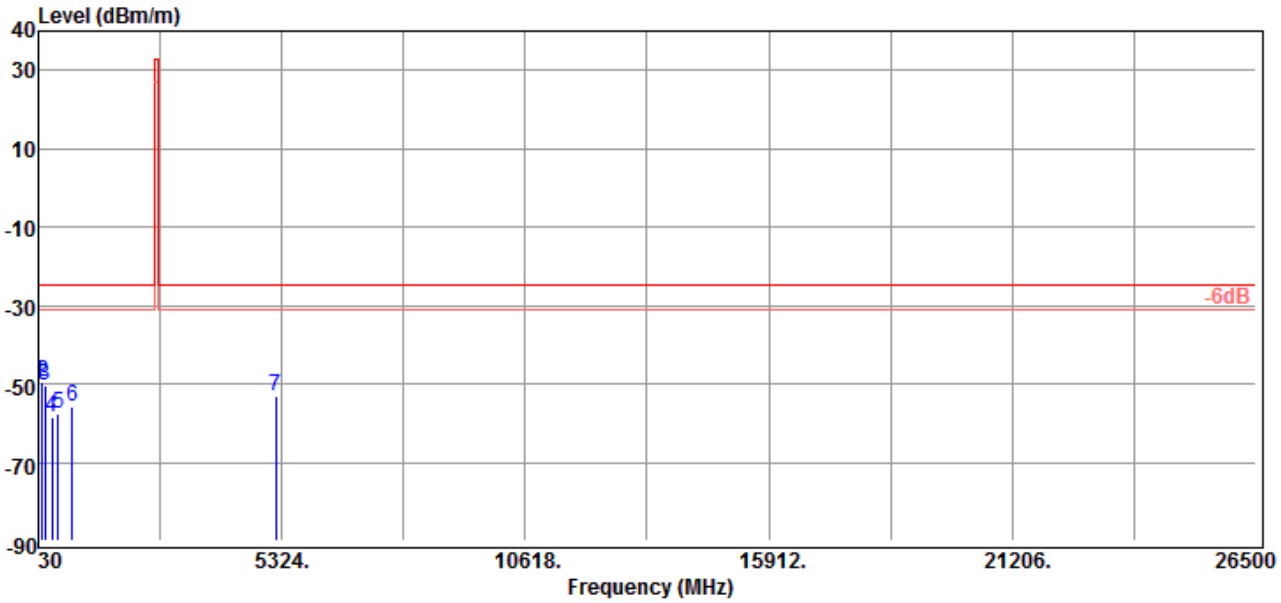
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-49.99	-39.48	-9.90	-0.61	-25.00	-24.99
110.51	-49.64	-48.70	-0.05	-0.89	-25.00	-24.64
175.50	-50.55	-53.76	4.33	-1.12	-25.00	-25.55
329.73	-58.63	-62.62	5.81	-1.82	-25.00	-33.63
468.44	-57.58	-61.46	6.15	-2.27	-25.00	-32.58
776.90	-55.96	-61.20	7.50	-2.26	-25.00	-30.96
5190.00	-53.18	-53.64	12.32	-11.86	-25.00	-28.18

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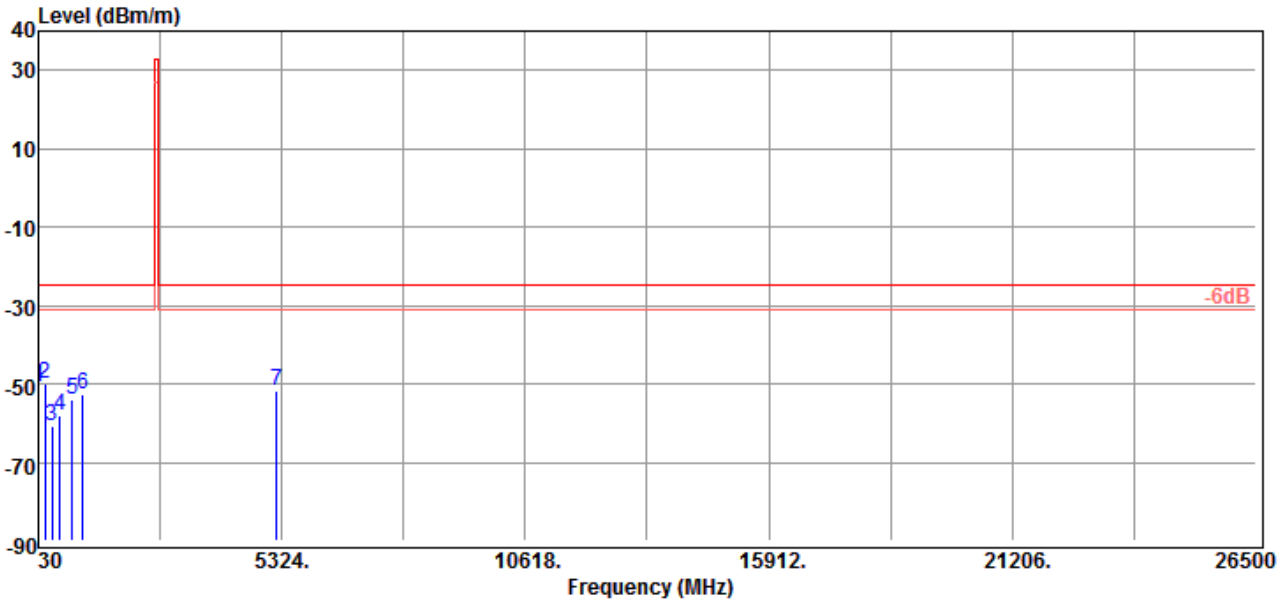
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-50.72	-41.64	-8.45	-0.63	-25.00	-25.72
179.38	-50.04	-53.48	4.58	-1.14	-25.00	-25.04
328.76	-60.55	-64.55	5.81	-1.81	-25.00	-35.55
498.51	-57.88	-61.56	6.28	-2.60	-25.00	-32.88
776.90	-53.87	-59.11	7.50	-2.26	-25.00	-28.87
1000.00	-52.62	-57.44	7.81	-2.99	-25.00	-27.62
5220.00	-51.81	-52.32	12.34	-11.83	-25.00	-26.81

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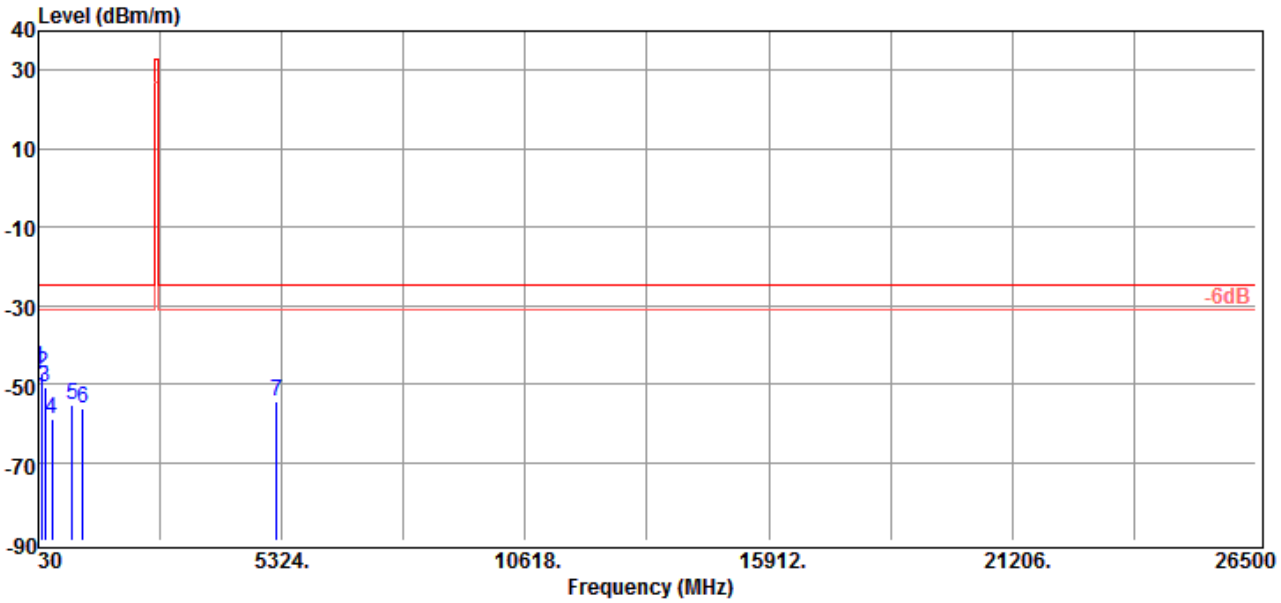
Operation Mode	:LTEB38 20M QPSK RB 1,99	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-45.99	-36.20	-9.17	-0.62	-25.00	-20.99
106.63	-47.09	-45.86	-0.35	-0.88	-25.00	-22.09
175.50	-50.90	-54.11	4.33	-1.12	-25.00	-25.90
329.73	-58.96	-62.95	5.81	-1.82	-25.00	-33.96
776.90	-55.45	-60.69	7.50	-2.26	-25.00	-30.45
1000.00	-56.33	-61.15	7.81	-2.99	-25.00	-31.33
5220.00	-54.46	-54.97	12.34	-11.83	-25.00	-29.46

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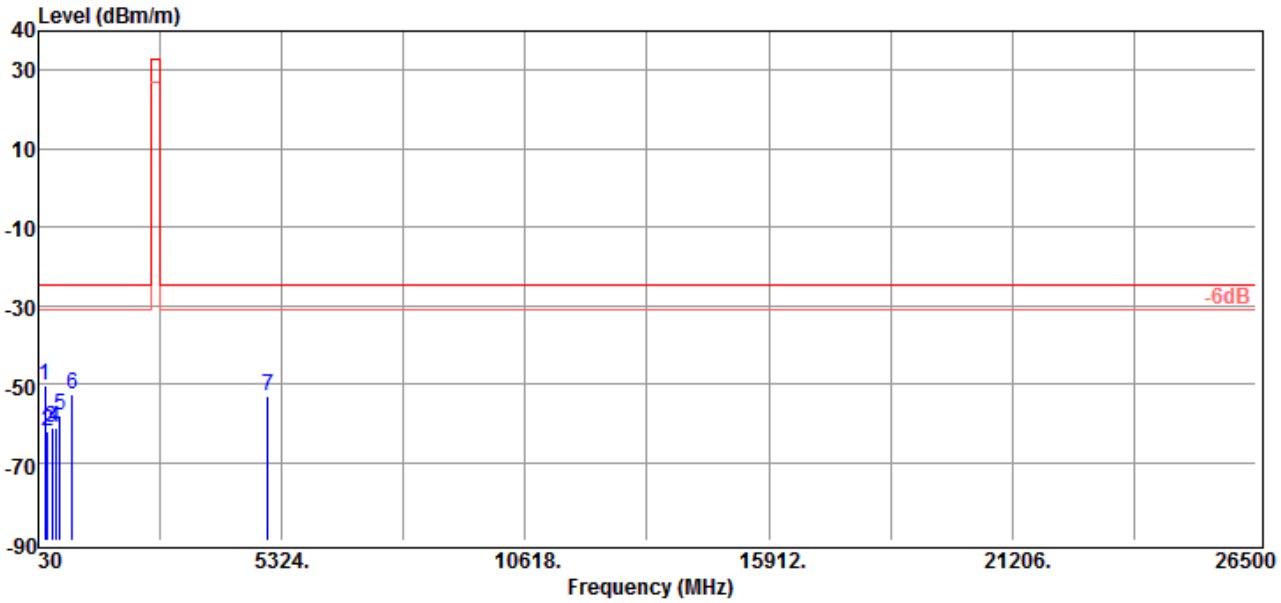
Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
179.38	-50.39	-53.83	4.58	-1.14	-25.00	-25.39
237.58	-62.06	-65.99	5.32	-1.39	-25.00	-37.06
328.76	-61.26	-65.26	5.81	-1.81	-25.00	-36.26
396.66	-61.41	-64.95	5.57	-2.03	-25.00	-36.41
499.48	-58.07	-61.75	6.29	-2.61	-25.00	-33.07
776.90	-52.79	-58.03	7.50	-2.26	-25.00	-27.79
5012.00	-52.95	-53.13	12.21	-12.03	-25.00	-27.95

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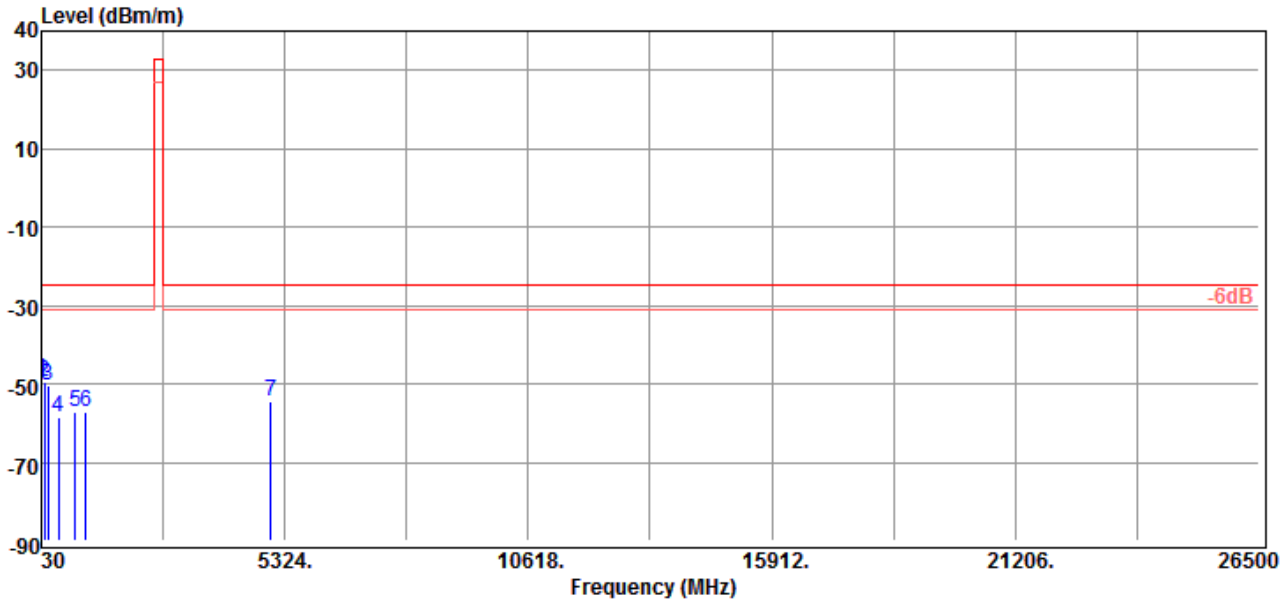
Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-49.03	-39.95	-8.45	-0.63	-25.00	-24.03
104.69	-49.49	-48.11	-0.50	-0.88	-25.00	-24.49
175.50	-50.48	-53.69	4.33	-1.12	-25.00	-25.48
402.48	-58.47	-62.01	5.58	-2.04	-25.00	-33.47
776.90	-57.14	-62.38	7.50	-2.26	-25.00	-32.14
998.06	-57.10	-61.92	7.80	-2.98	-25.00	-32.10
5012.00	-54.57	-54.75	12.21	-12.03	-25.00	-29.57

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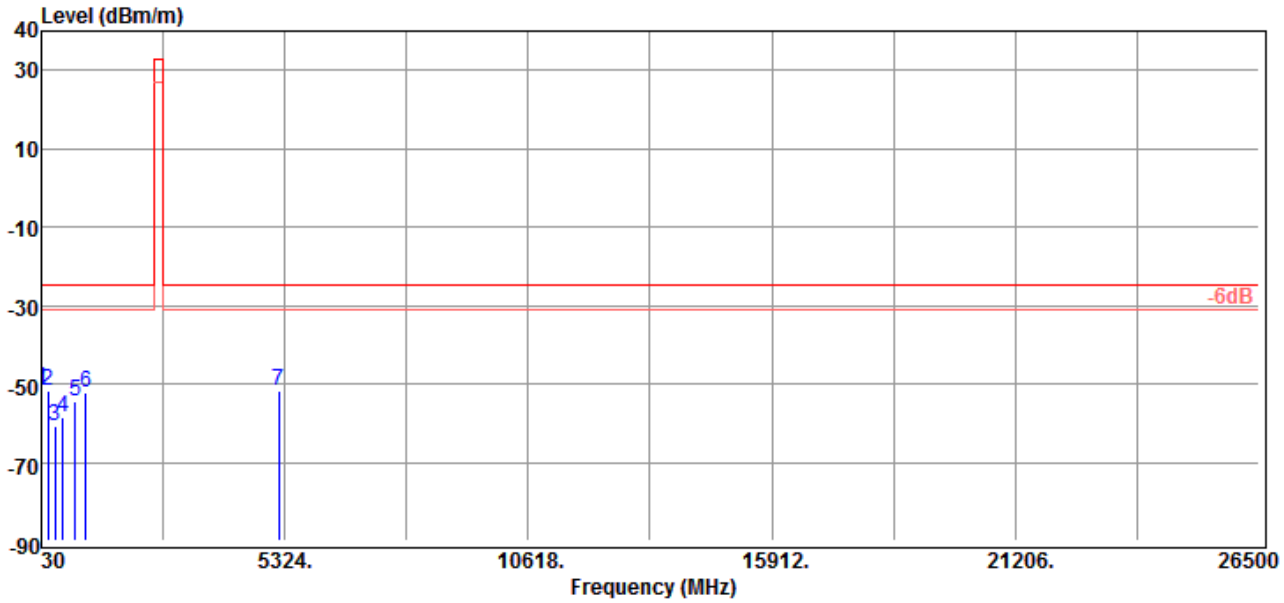
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2593 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	-51.52	-42.44	-8.45	-0.63	-25.00	-26.52
179.38	-51.57	-55.01	4.58	-1.14	-25.00	-26.57
328.76	-60.71	-64.71	5.81	-1.81	-25.00	-35.71
499.48	-58.55	-62.23	6.29	-2.61	-25.00	-33.55
776.90	-54.26	-59.50	7.50	-2.26	-25.00	-29.26
998.06	-52.13	-56.95	7.80	-2.98	-25.00	-27.13
5186.00	-51.66	-52.11	12.31	-11.86	-25.00	-26.66

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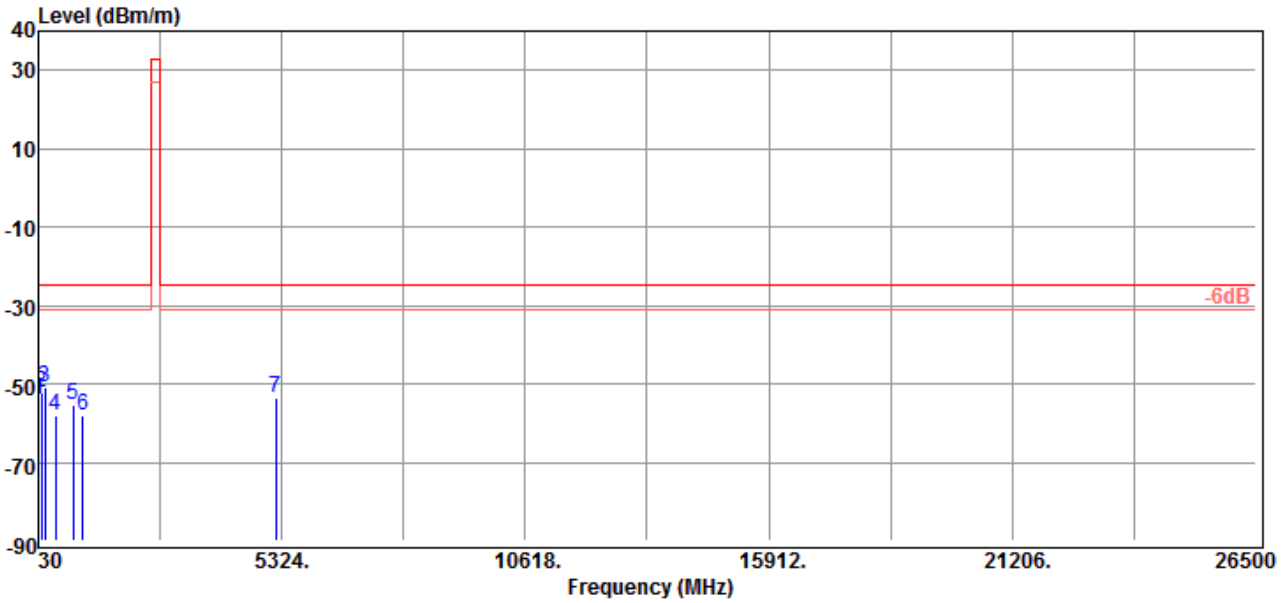
Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-54.01	-44.22	-9.17	-0.62	-25.00	-29.01
105.66	-52.35	-51.04	-0.43	-0.88	-25.00	-27.35
175.50	-50.78	-53.99	4.33	-1.12	-25.00	-25.78
399.57	-58.04	-61.55	5.55	-2.04	-25.00	-33.04
777.87	-55.55	-60.78	7.50	-2.27	-25.00	-30.55
999.03	-58.07	-62.90	7.81	-2.98	-25.00	-33.07
5186.00	-53.73	-54.18	12.31	-11.86	-25.00	-28.73

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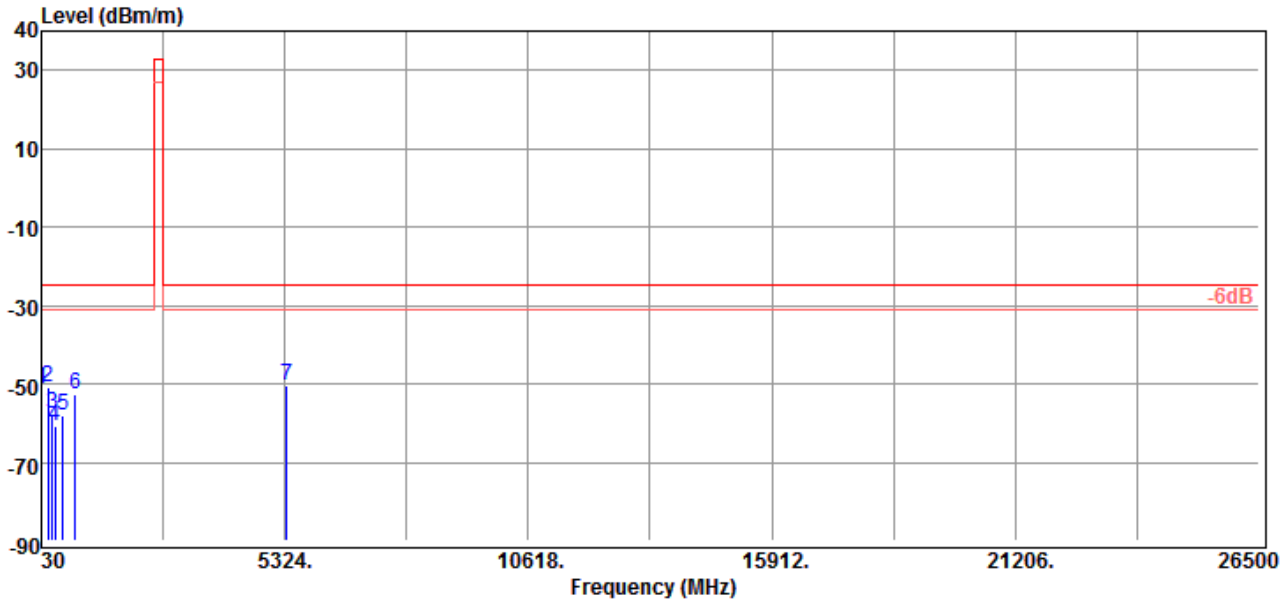
Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-51.45	-42.37	-8.45	-0.63	-25.00	-26.45
175.50	-50.88	-54.09	4.33	-1.12	-25.00	-25.88
277.35	-57.49	-61.51	5.56	-1.54	-25.00	-32.49
322.94	-60.69	-64.74	5.82	-1.77	-25.00	-35.69
498.51	-57.84	-61.52	6.28	-2.60	-25.00	-32.84
776.90	-52.70	-57.94	7.50	-2.26	-25.00	-27.70
5360.00	-50.25	-50.97	12.42	-11.70	-25.00	-25.25

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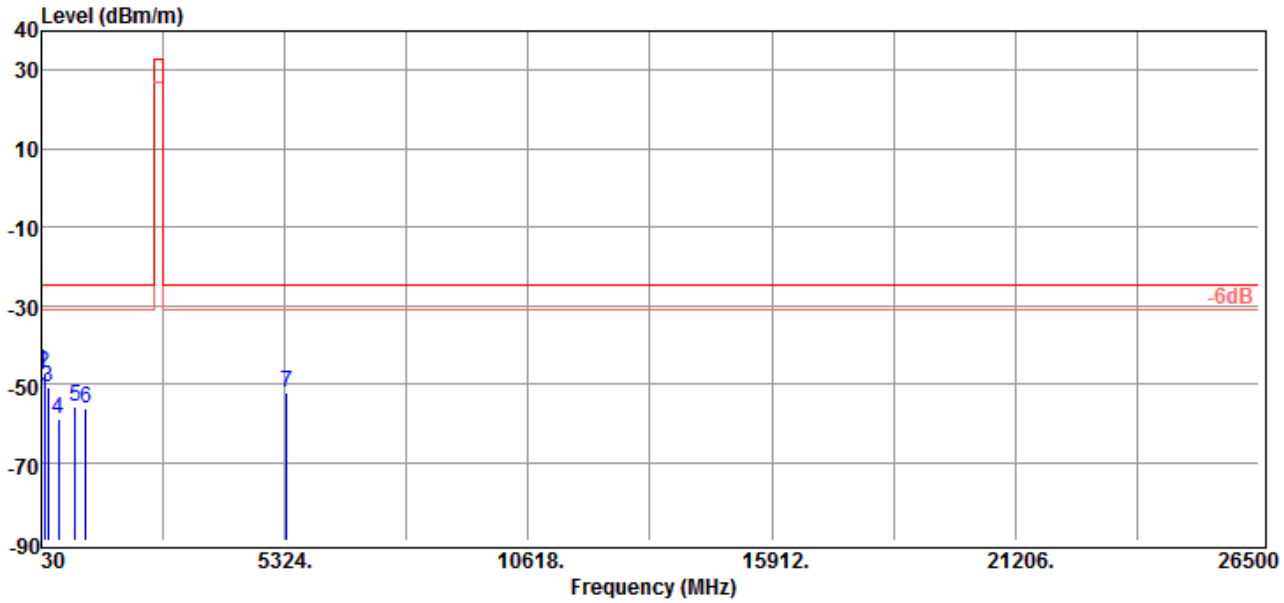
Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-46.85	-37.06	-9.17	-0.62	-25.00	-21.85
105.66	-47.07	-45.76	-0.43	-0.88	-25.00	-22.07
176.47	-51.02	-54.28	4.39	-1.13	-25.00	-26.02
397.63	-58.80	-62.32	5.56	-2.04	-25.00	-33.80
776.90	-55.60	-60.84	7.50	-2.26	-25.00	-30.60
997.09	-56.34	-61.17	7.80	-2.97	-25.00	-31.34
5360.00	-52.15	-52.87	12.42	-11.70	-25.00	-27.15

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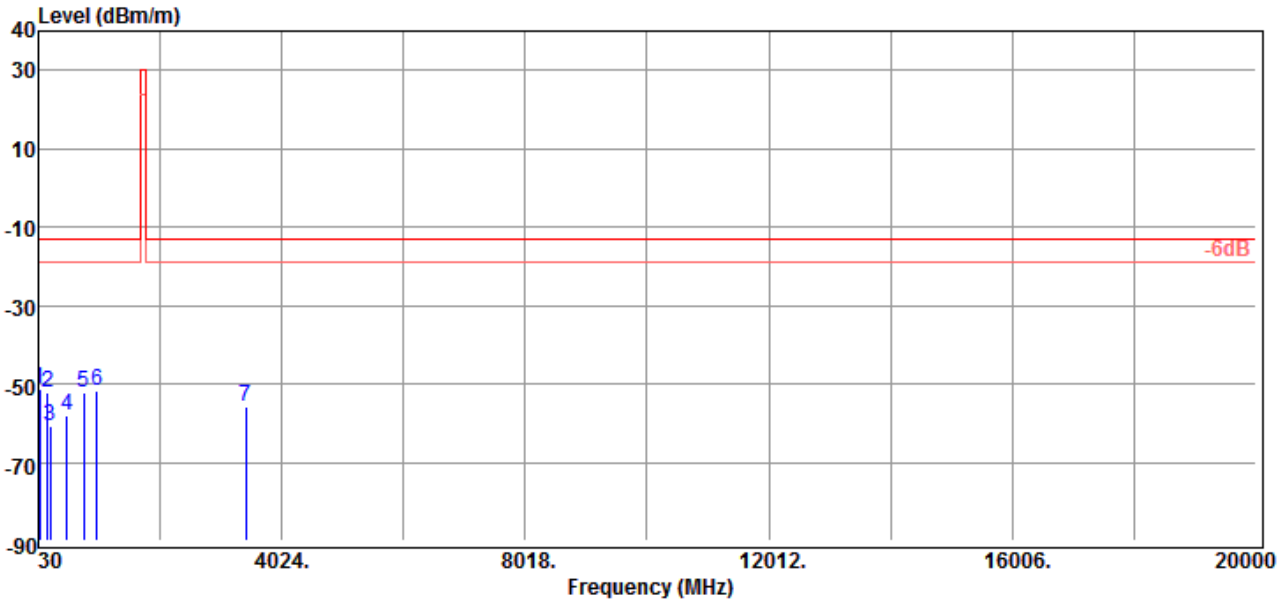
Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H 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
44.55	-51.39	-42.31	-8.45	-0.63	-13.00	-38.39
174.53	-52.00	-55.15	4.27	-1.12	-13.00	-39.00
230.79	-60.57	-64.62	5.41	-1.36	-13.00	-47.57
498.51	-58.08	-61.76	6.28	-2.60	-13.00	-45.08
776.90	-52.15	-57.39	7.50	-2.26	-13.00	-39.15
997.09	-51.62	-56.45	7.80	-2.97	-13.00	-38.62
3440.00	-55.90	-57.11	11.97	-10.76	-13.00	-42.90

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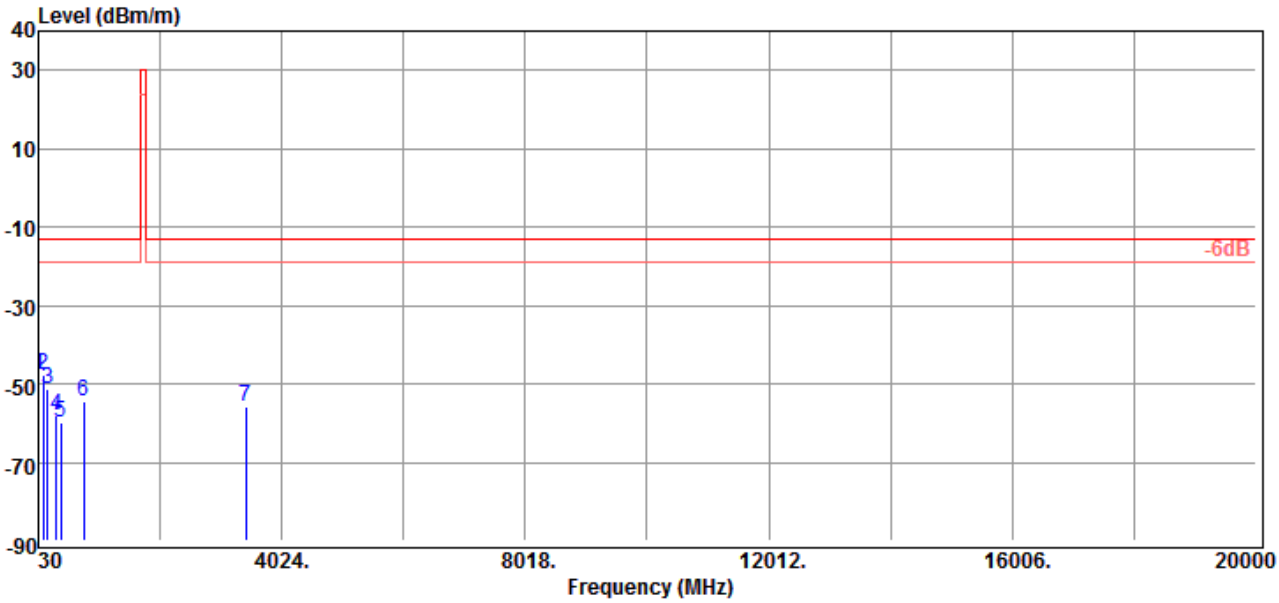
Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-47.49	-37.70	-9.17	-0.62	-13.00	-34.49
104.69	-47.89	-46.51	-0.50	-0.88	-13.00	-34.89
175.50	-51.48	-54.69	4.33	-1.12	-13.00	-38.48
322.94	-58.27	-62.32	5.82	-1.77	-13.00	-45.27
399.57	-59.83	-63.34	5.55	-2.04	-13.00	-46.83
776.90	-54.61	-59.85	7.50	-2.26	-13.00	-41.61
3440.00	-55.82	-57.03	11.97	-10.76	-13.00	-42.82

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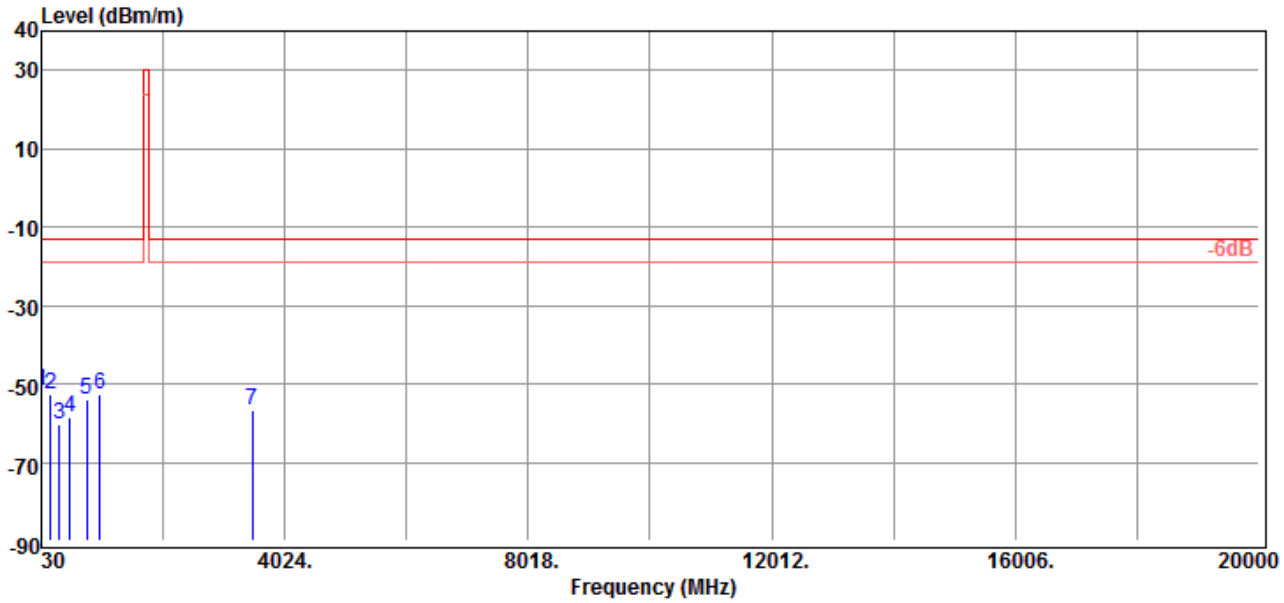
Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
43.58	-51.57	-41.78	-9.17	-0.62	-13.00	-38.57
181.32	-52.44	-56.00	4.71	-1.15	-13.00	-39.44
323.91	-60.25	-64.29	5.82	-1.78	-13.00	-47.25
498.51	-58.66	-62.34	6.28	-2.60	-13.00	-45.66
776.90	-54.23	-59.47	7.50	-2.26	-13.00	-41.23
998.06	-52.50	-57.32	7.80	-2.98	-13.00	-39.50
3490.00	-56.79	-58.09	12.08	-10.78	-13.00	-43.79

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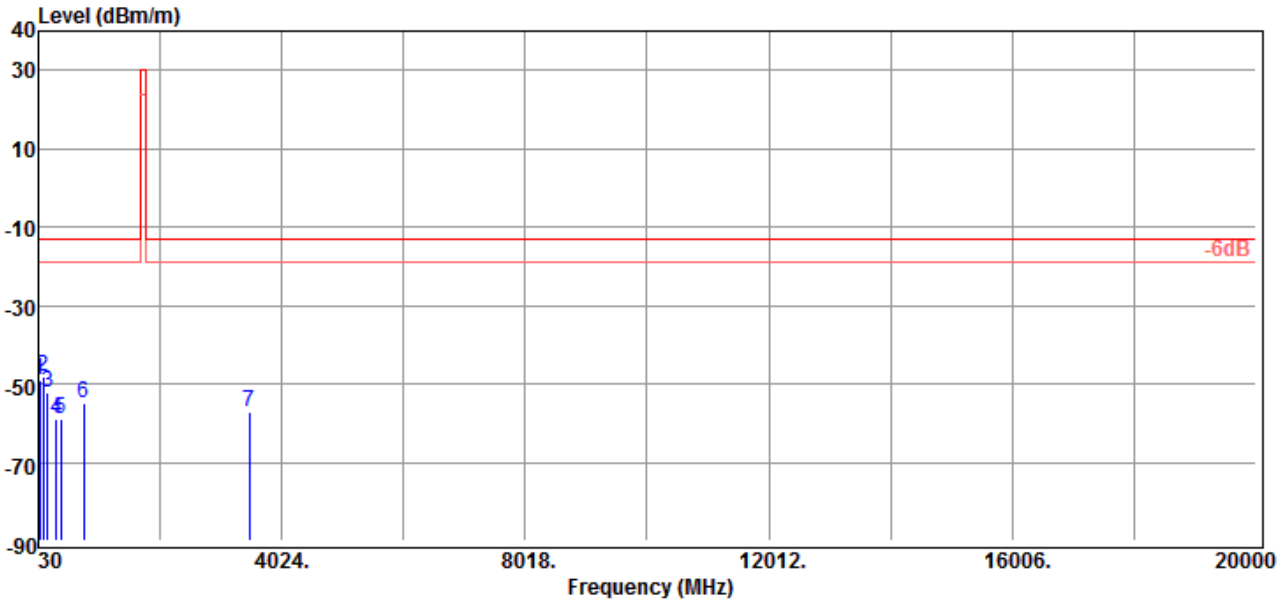
Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.55	-48.91	-39.83	-8.45	-0.63	-13.00	-35.91
105.66	-48.32	-47.01	-0.43	-0.88	-13.00	-35.32
175.50	-52.28	-55.49	4.33	-1.12	-13.00	-39.28
321.00	-58.83	-62.89	5.82	-1.76	-13.00	-45.83
400.54	-58.94	-62.46	5.56	-2.04	-13.00	-45.94
776.90	-54.73	-59.97	7.50	-2.26	-13.00	-41.73
3490.00	-57.38	-58.68	12.08	-10.78	-13.00	-44.38

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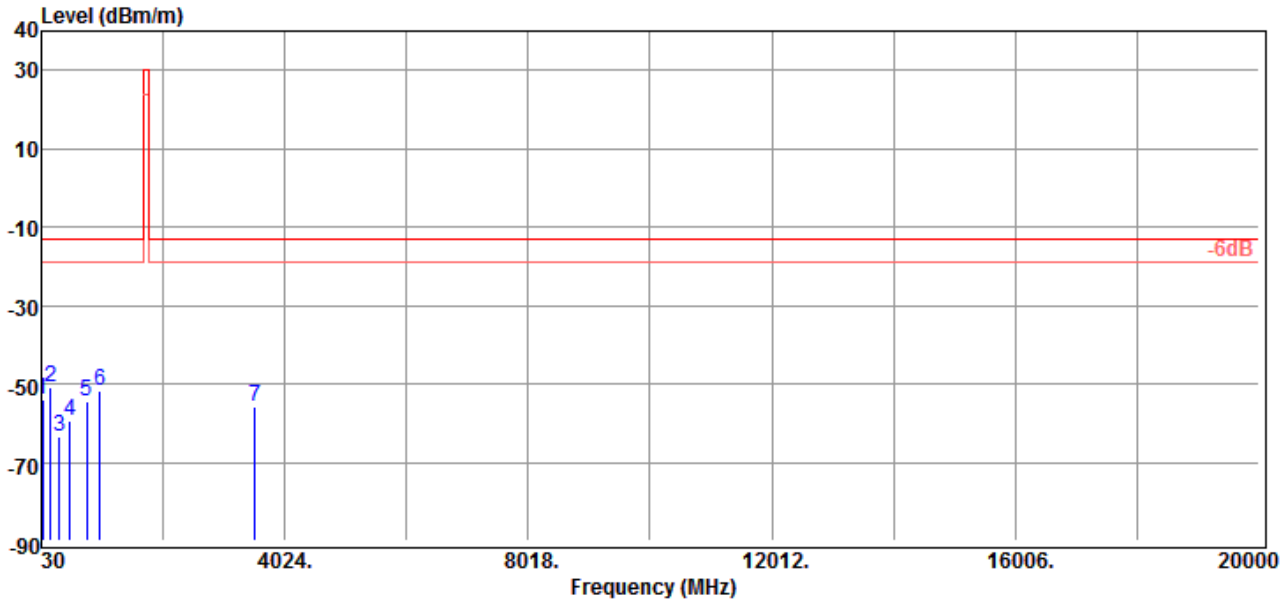
Member of SGS Group

Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:VERTICAL
Test Channel	:1770 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	-53.98	-45.59	-7.76	-0.63	-13.00	-40.98
180.35	-50.73	-54.22	4.64	-1.15	-13.00	-37.73
321.00	-63.24	-67.30	5.82	-1.76	-13.00	-50.24
498.51	-59.19	-62.87	6.28	-2.60	-13.00	-46.19
776.90	-54.35	-59.59	7.50	-2.26	-13.00	-41.35
997.09	-51.62	-56.45	7.80	-2.97	-13.00	-38.62
3540.00	-55.88	-57.20	12.11	-10.79	-13.00	-42.88

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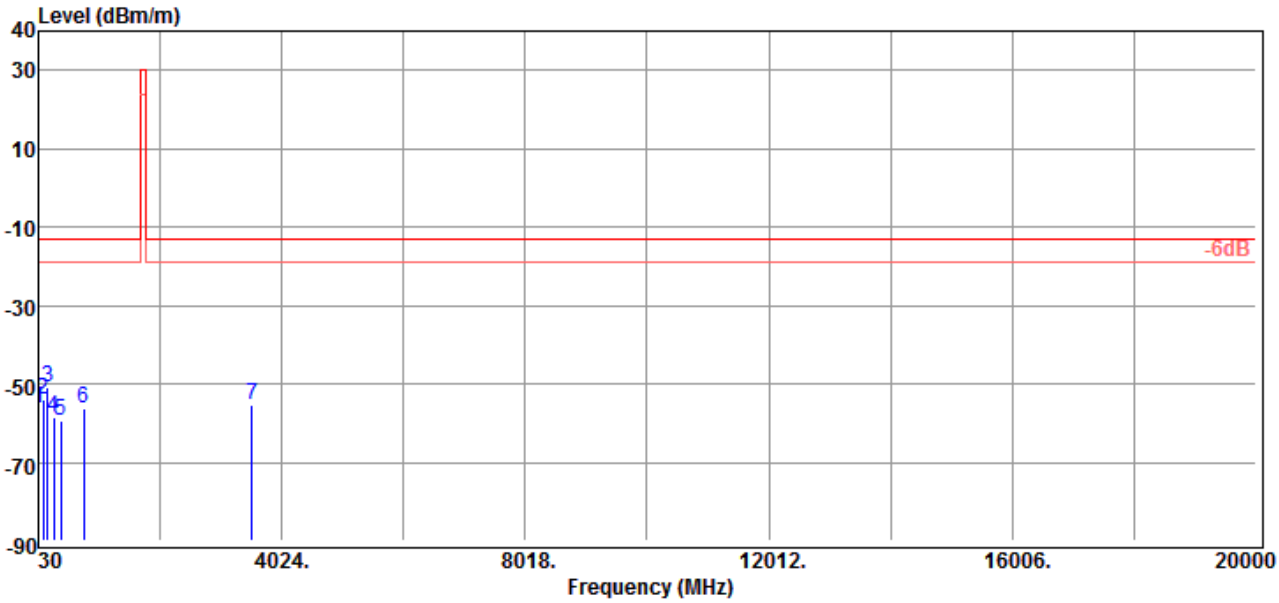
Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-12
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:H Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-56.12	-43.37	-12.16	-0.59	-13.00	-43.12
109.54	-54.01	-53.00	-0.12	-0.89	-13.00	-41.01
179.38	-50.80	-54.24	4.58	-1.14	-13.00	-37.80
278.32	-58.70	-62.73	5.57	-1.54	-13.00	-45.70
393.75	-59.63	-63.18	5.58	-2.03	-13.00	-46.63
776.90	-56.23	-61.47	7.50	-2.26	-13.00	-43.23
3540.00	-55.48	-56.80	12.11	-10.79	-13.00	-42.48

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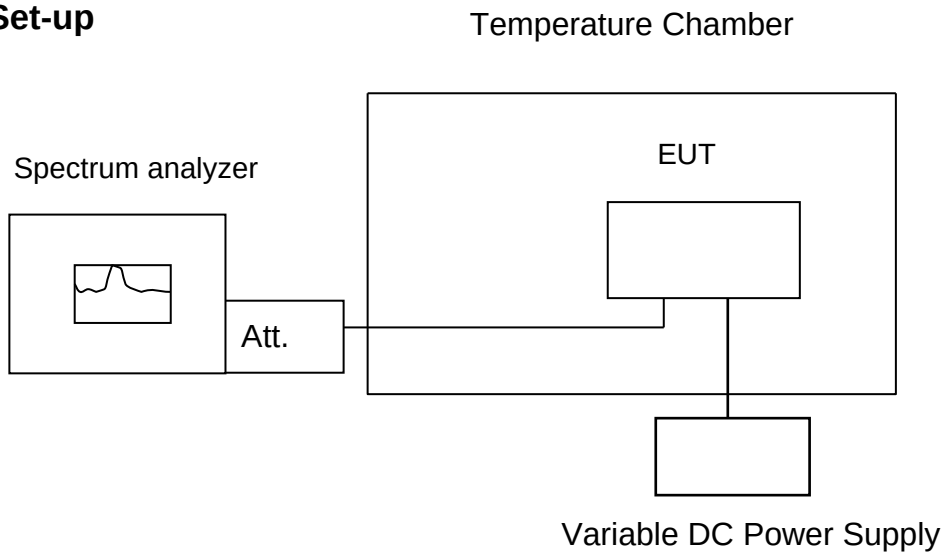
10. FREQUENCY STABILITY MEASUREMENT

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

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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℃. 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

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14

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10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1879.999994	-5.999999985	4700
7.2 (End point)	20	1880.000006	5.999999985	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1880.000009	9.000000091	4700
7.7	40	1880.000008	7.99999998	4700
7.7	30	1880.000008	7.99999998	4700
7.7	20	1879.999994	-5.999999985	4700
7.7	10	1879.999995	-5.000000101	4700
7.7	0	1879.999989	-11.00000009	4700
7.7	-10	1879.999989	-11.00000009	4700
7.7	-20	1880.000009	9.000000091	4700
7.7	-30	1880.000009	9.000000091	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1732.600002	1.999999995	4331
7.2 (End point)	20	1732.599995	-4.999999874	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732.599992	-7.99999998	4331
7.7	40	1732.599994	-5.999999985	4331
7.7	30	1732.600004	3.99999999	4331
7.7	20	1732.600002	1.999999995	4331
7.7	10	1732.599987	-12.99999985	4331
7.7	0	1732.599999	-0.999999884	4331
7.7	-10	1732.599989	-10.99999986	4331
7.7	-20	1732.600004	3.99999999	4331
7.7	-30	1732.600006	5.999999985	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	836.60001	9.999999975	2091
7.2 (End point)	20	836.599995	-4.999999987	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836.600004	3.99999999	2091
7.7	40	836.600003	2.999999992	2091
7.7	30	836.6	0	2091
7.7	20	836.60001	9.999999975	2091
7.7	10	836.600007	6.999999982	2091
7.7	0	836.599996	-3.99999999	2091
7.7	-10	836.599991	-8.999999977	2091
7.7	-20	836.599996	-3.99999999	2091
7.7	-30	836.600001	0.999999997	2091

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Reference Freq.:	LTE B2 Mid Channel	1880	MHz 20M QPSK CH 18900	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1880.000003	3	4700
7.2 (End Point)	25	1880.000000	0	4700
Freq. ERROR vs. Temp.				
7.7	-30	1880.000003	3	4700
7.7	-20	1880.000001	1	4700
7.7	-10	1879.999994	-6	4700
7.7	0	1879.999995	-5	4700
7.7	10	1879.999992	-8	4700
7.7	20	1879.999988	-12	4700
7.7	30	1880.000000	0	4700
7.7	40	1879.999997	-3	4700
7.7	50	1879.999998	-2	4700

Reference Freq.:	LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1732.499985	-15	4331
7.2 (End Point)	25	1732.499995	-5	4331
Freq. ERROR vs. Temp.				
7.7	-30	1732.499998	-2	4331
7.7	-20	1732.499993	-7	4331
7.7	-10	1732.500003	3	4331
7.7	0	1732.500004	4	4331
7.7	10	1732.499991	-9	4331
7.7	20	1732.499986	-14	4331
7.7	30	1732.499996	-4	4331
7.7	40	1732.499996	-4	4331
7.7	50	1732.499997	-3	4331

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Reference Freq.:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	836.499997	-3	2091
7.2 (End Point)	25	836.500001	1	2091
Freq. ERROR vs. Temp.				
7.7	-30	836.500001	1	2091
7.7	-20	836.499987	-13	2091
7.7	-10	836.500000	0	2091
7.7	0	836.499987	-13	2091
7.7	10	836.499994	-6	2091
7.7	20	836.500004	4	2091
7.7	30	836.500000	0	2091
7.7	40	836.499998	-2	2091
7.7	50	836.499996	-4	2091

Reference Freq.:	LTE B7 Mid Channel	2535	MHz 10M QPSK CH 21100	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2534.999990	-10	6338
7.2 (End Point)	25	2534.999992	-8	6338
Freq. ERROR vs. Temp.				
7.7	-30	2534.999999	-1	6338
7.7	-20	2534.999990	-10	6338
7.7	-10	2534.999996	-4	6338
7.7	0	2534.999992	-8	6338
7.7	10	2534.999988	-12	6338
7.7	20	2535.000002	2	6338
7.7	30	2534.999998	-2	6338
7.7	40	2534.999996	-4	6338
7.7	50	2534.999997	-3	6338

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Reference Freq.:	LTE B12 Mid Channel	707.5	MHz 10M QPSK CH 23095	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	707.499997	-3	1769
7.2 (End Point)	25	707.499997	-3	1769
Freq. ERROR vs. Temp.				
7.7	-30	707.499997	-3	1769
7.7	-20	707.500003	3	1769
7.7	-10	707.499996	-4	1769
7.7	0	707.499995	-5	1769
7.7	10	707.499986	-14	1769
7.7	20	707.500001	1	1769
7.7	30	707.500001	1	1769
7.7	40	707.499990	-10	1769
7.7	50	707.500000	0	1769

Reference Freq.:	LTE B13 Mid Channel	782	MHz 10M QPSK CH 23230	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	781.999985	-15	1955
7.2 (End Point)	25	782.000003	3	1955
Freq. ERROR vs. Temp.				
7.7	-30	782.000001	1	1955
7.7	-20	781.999998	-2	1955
7.7	-10	782.000002	2	1955
7.7	0	781.999991	-9	1955
7.7	10	781.999991	-9	1955
7.7	20	781.999987	-13	1955
7.7	30	781.999988	-12	1955
7.7	40	781.999997	-3	1955
7.7	50	781.999996	-4	1955

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Reference Freq.:	LTE B14 Mid Channel	793	MHz 10M QPSK CH 23330	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 1.25 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	793.000002	2	1983
7.2 (End Point)	25	792.999996	-4	1983
Freq. ERROR vs. Temp.				
7.7	-30	792.999990	-10	1983
7.7	-20	792.999998	-2	1983
7.7	-10	792.999994	-6	1983
7.7	0	793.000004	4	1983
7.7	10	792.999991	-9	1983
7.7	20	792.999986	-14	1983
7.7	30	793.000003	3	1983
7.7	40	792.999992	-8	1983
7.7	50	792.999993	-7	1983

Reference Freq.:	LTE B17 Mid Channel	710	MHz 10M QPSK CH 23790	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	710.000002	2	1775
7.2 (End Point)	25	709.999997	-3	1775
Freq. ERROR vs. Temp.				
7.7	-30	709.999993	-7	1775
7.7	-20	709.999995	-5	1775
7.7	-10	710.000000	0	1775
7.7	0	710.000001	1	1775
7.7	10	709.999991	-9	1775
7.7	20	709.999989	-11	1775
7.7	30	710.000001	1	1775
7.7	40	709.999995	-5	1775
7.7	50	709.999988	-12	1775

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Reference Freq.:	LTE B25 Mid Channel		1882.5	MHz 20M QPSK CH 26365
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1882.499988	-12	4700
7.2 (End Point)	25	1882.500001	1	4700
Freq. ERROR vs. Temp.				
7.7	-30	1882.499997	-3	4700
7.7	-20	1882.499998	-2	4700
7.7	-10	1882.500003	3	4700
7.7	0	1882.499992	-8	4700
7.7	10	1882.499999	-1	4700
7.7	20	1882.499993	-7	4700
7.7	30	1882.499997	-3	4700
7.7	40	1882.499993	-7	4700
7.7	50	1882.499985	-15	4700

Reference Freq.:	LTE B26 Mid Channel		831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	831.499999	-1	2091
7.2 (End Point)	25	831.499991	-9	2091
Freq. ERROR vs. Temp.				
7.7	-30	831.499986	-14	2091
7.7	-20	831.499997	-3	2091
7.7	-10	831.499995	-5	2091
7.7	0	831.499998	-2	2091
7.7	10	831.499987	-13	2091
7.7	20	831.499991	-9	2091
7.7	30	831.499988	-12	2091
7.7	40	831.499993	-7	2091
7.7	50	831.499985	-15	2091

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Reference Freq.:	Part 90 LTE B26 Mid Channel	819	MHz 10M QPSK CH 26740	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)				
7.7	25	819.000003	3	2048
7.2 (End Point)	25	818.999990	-10	2048
Freq. ERROR vs. Temp.				
7.7	-30	818.999987	-13	2048
7.7	-20	819.000001	1	2048
7.7	-10	819.000000	0	2048
7.7	0	819.000000	0	2048
7.7	10	818.999987	-13	2048
7.7	20	818.999989	-11	2048
7.7	30	819.000002	2	2048
7.7	40	818.999987	-13	2048
7.7	50	818.999986	-14	2048

Reference Freq.:	LTE B30 Mid Channel	2310	MHz 10M QPSK CH 27710	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2309.999988	-12	6488
7.2 (End Point)	25	2309.999990	-10	6488
Freq. ERROR vs. Temp.				
7.7	-30	2309.999988	-12	6488
7.7	-20	2310.000004	4	6488
7.7	-10	2309.999987	-13	6488
7.7	0	2309.999987	-13	6488
7.7	10	2309.999988	-12	6488
7.7	20	2309.999994	-6	6488
7.7	30	2310.000001	1	6488
7.7	40	2309.999990	-10	6488
7.7	50	2309.999989	-11	6488

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Reference Freq.:	LTE B38 Mid Channel	2595	MHz 10M QPSK CH 38000	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2595.000004	4	6488
7.2 (End Point)	25	2595.000003	3	6488
Freq. ERROR vs. Temp.				
7.7	-30	2594.999985	-15	6488
7.7	-20	2594.999986	-14	6488
7.7	-10	2595.000001	1	6488
7.7	0	2594.999987	-13	6488
7.7	10	2594.999989	-11	6488
7.7	20	2594.999995	-5	6488
7.7	30	2595.000003	3	6488
7.7	40	2594.999990	-10	6488
7.7	50	2594.999986	-14	6488

Reference Freq.:	LTE B41 Mid Channel	2593	MHz 10M QPSK CH 40620	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	2592.999996	-4	6488
7.2 (End Point)	25	2593.000002	2	6488
Freq. ERROR vs. Temp.				
7.7	-30	2592.999986	-14	6488
7.7	-20	2593.000001	1	6488
7.7	-10	2593.000001	1	6488
7.7	0	2592.999995	-5	6488
7.7	10	2592.999996	-4	6488
7.7	20	2592.999999	-1	6488
7.7	30	2593.000001	1	6488
7.7	40	2592.999990	-10	6488
7.7	50	2592.999997	-3	6488

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Reference Freq.:	LTE B66 Mid Channel	1745	MHz 10M QPSK CH 132322	
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
7.7	25	1744.999991	-9	6488
7.2 (End Point)	25	1744.999990	-10	6488
Freq. ERROR vs. Temp.				
7.7	-30	1744.999992	-8	6488
7.7	-20	1744.999998	-2	6488
7.7	-10	1744.999998	-2	6488
7.7	0	1745.000004	4	6488
7.7	10	1744.999996	-4	6488
7.7	20	1744.999991	-9	6488
7.7	30	1745.000000	0	6488
7.7	40	1744.999999	-1	6488
7.7	50	1744.999994	-6	6488

Note: The battery is rated 7.7Vdc.

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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