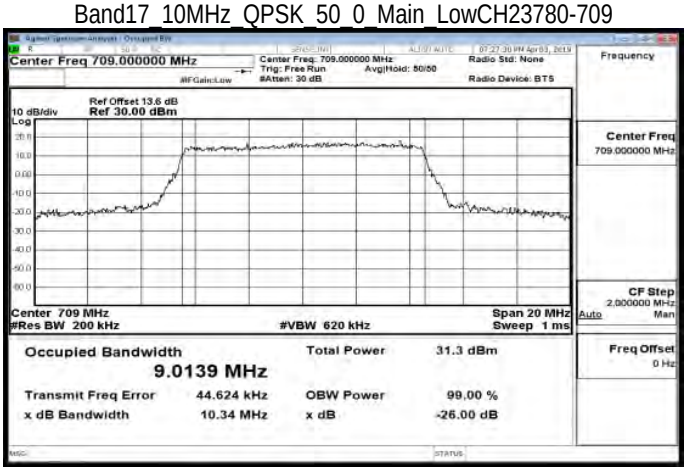
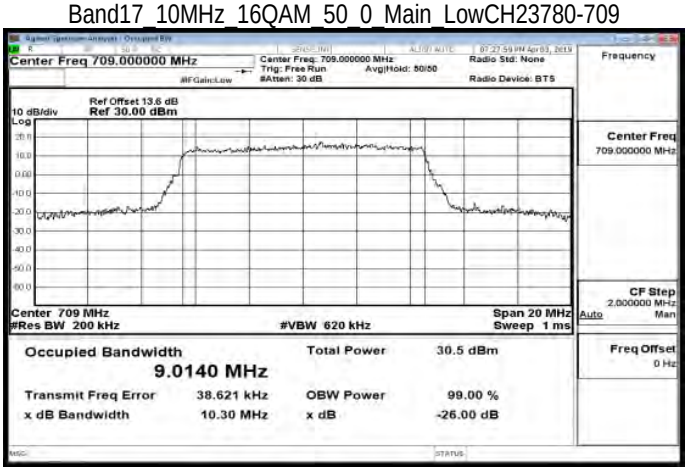
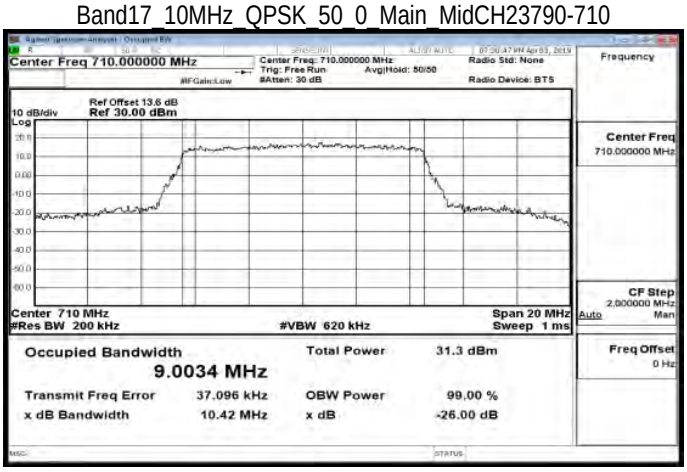
Band17_10MHz_QPSK_50_0_Main_LowCH23780-709



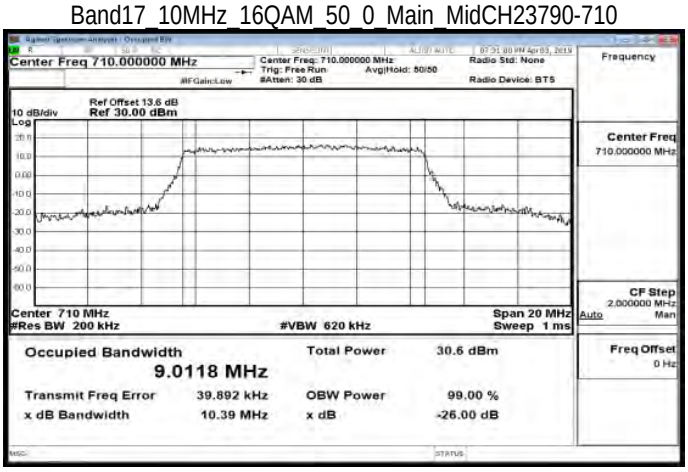
Band17_10MHz_16QAM_50_0_Main_LowCH23780-709



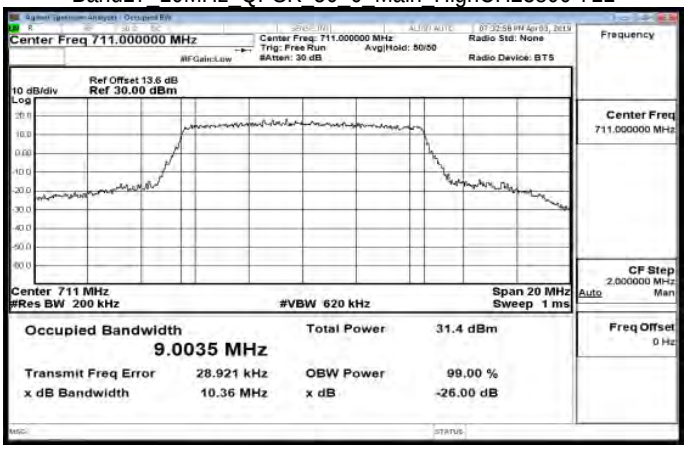
Band17_10MHz_QPSK_50_0_Main_MidCH23790-710



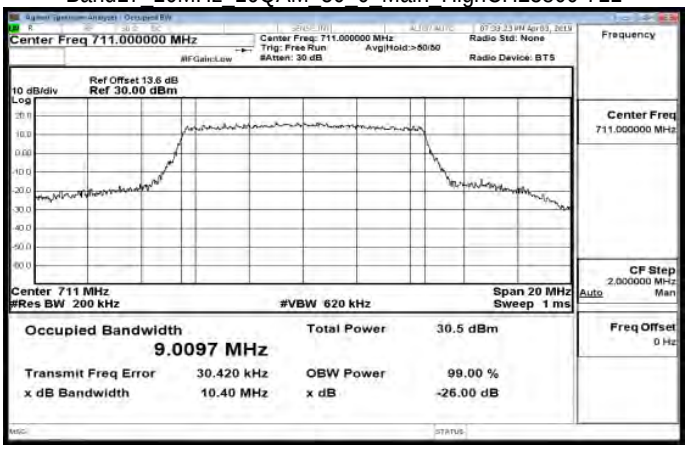
Band17_10MHz_16QAM_50_0_Main_MidCH23790-710



Band17_10MHz_QPSK_50_0_Main_HighCH23800-711



Band17_10MHz_16QAM_50_0_Main_HighCH23800-711



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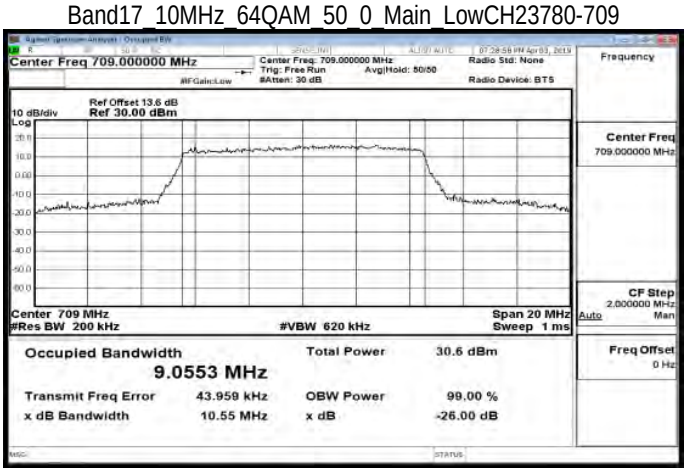
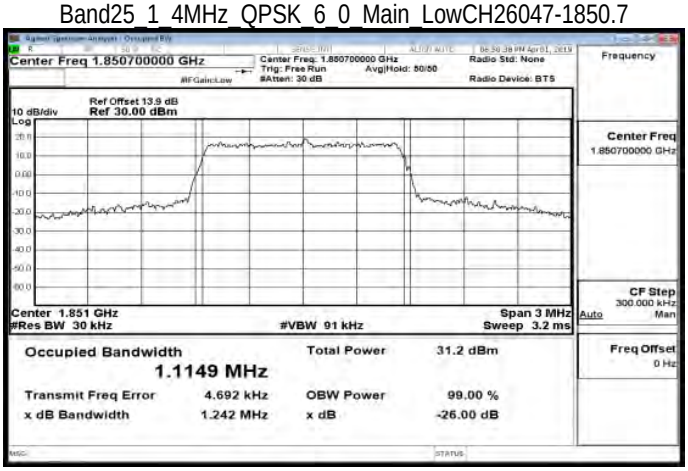
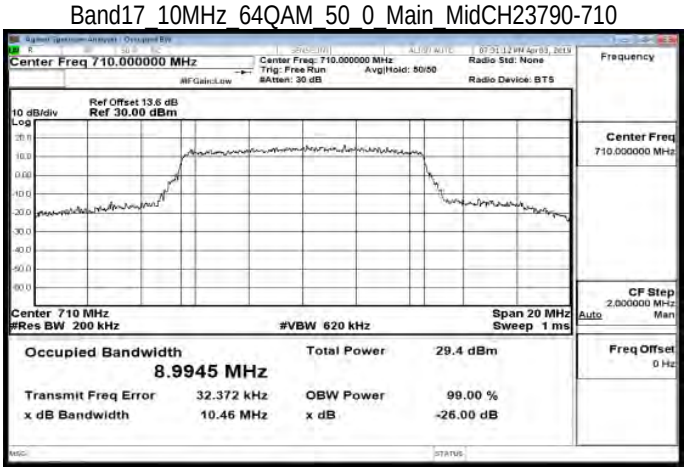
Band17_10MHz_64QAM_50_0_Main_LowCH23780-709



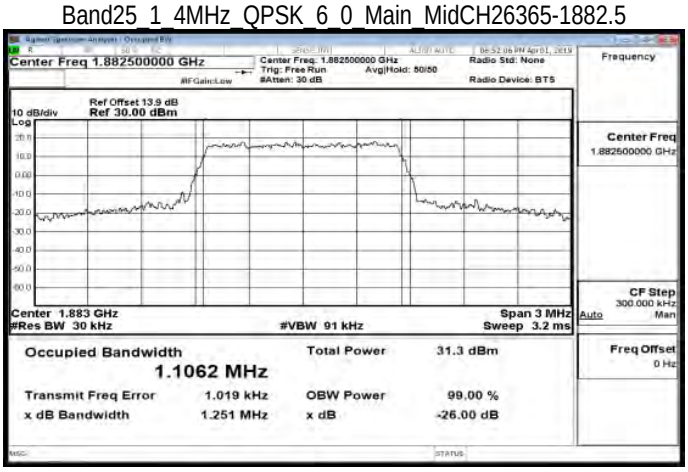
Band25_1_4MHz_QPSK_6_0_Main_LowCH26047-1850.7



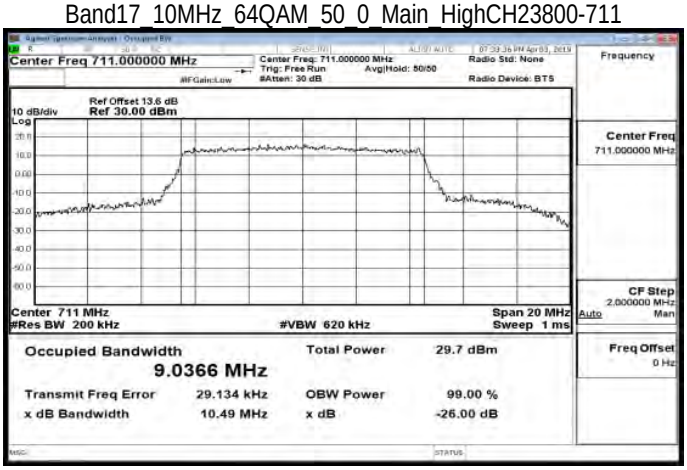
Band17_10MHz_64QAM_50_0_Main_MidCH23790-710



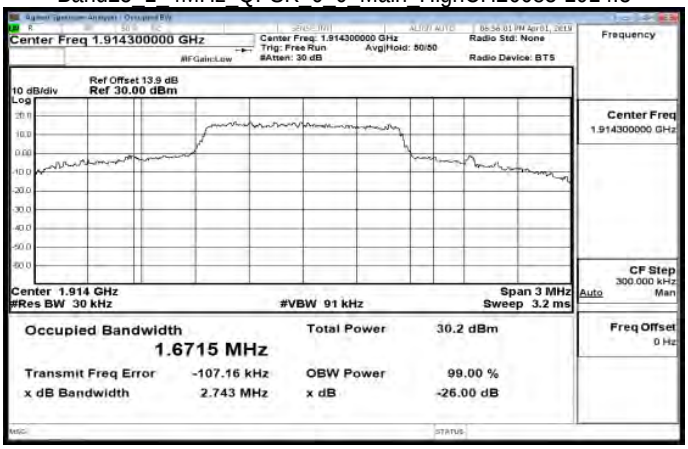
Band25_1_4MHz_QPSK_6_0_Main_MidCH26365-1882.5



Band17_10MHz_64QAM_50_0_Main_HighCH23800-711



Band25_1_4MHz_QPSK_6_0_Main_HighCH26683-1914.3



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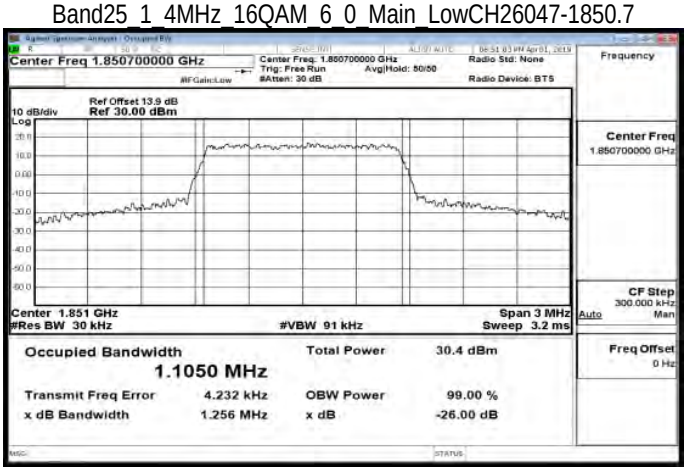
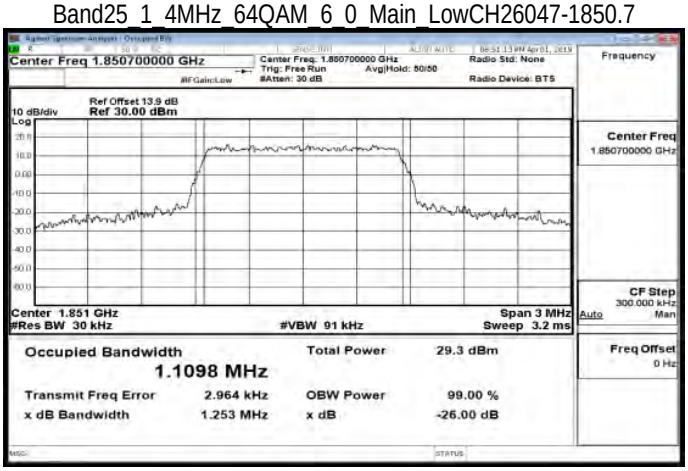
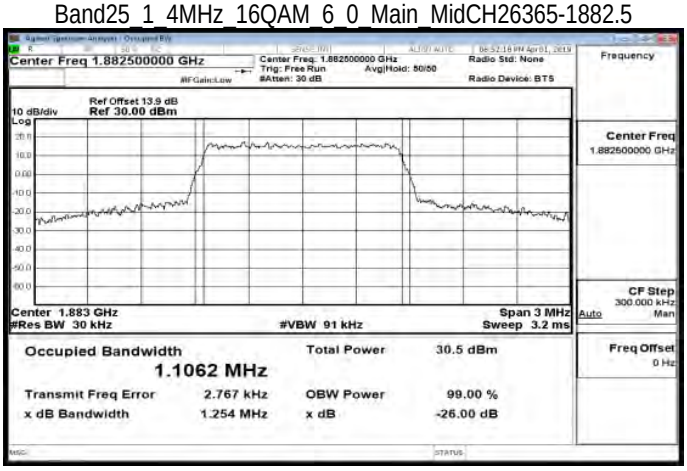
Band25_1_4MHz_16QAM_6_0_Main_LowCH26047-1850.7



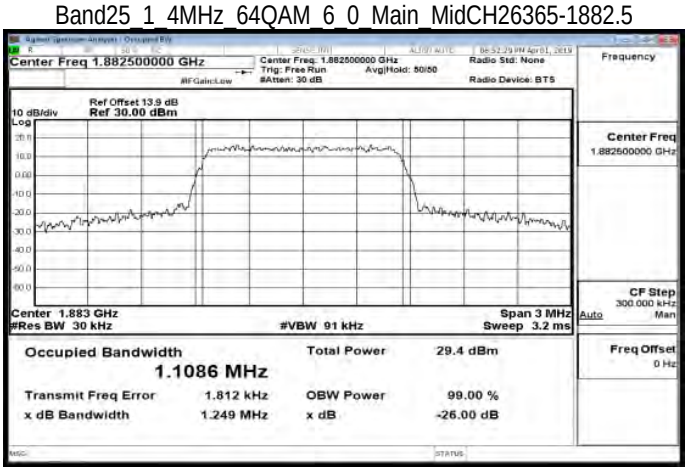
Band25_1_4MHz_64QAM_6_0_Main_LowCH26047-1850.7



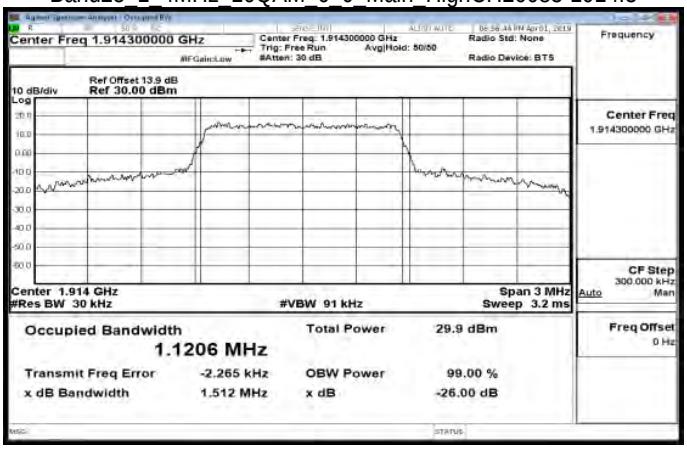
Band25_1_4MHz_16QAM_6_0_Main_MidCH26365-1882.5



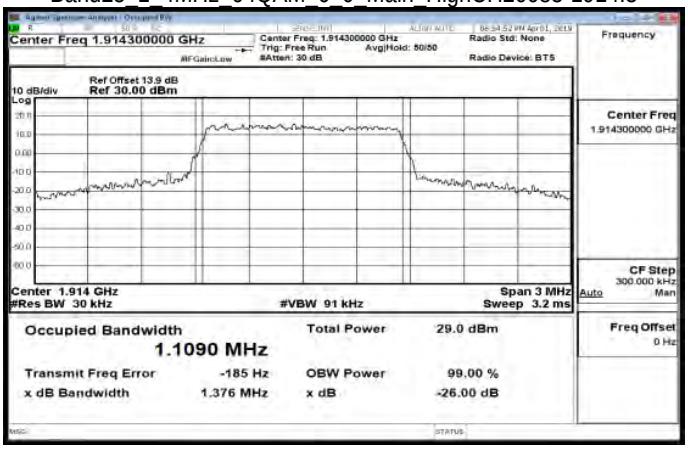
Band25_1_4MHz_64QAM_6_0_Main_MidCH26365-1882.5



Band25_1_4MHz_16QAM_6_0_Main_HighCH26683-1914.3



Band25_1_4MHz_64QAM_6_0_Main_HighCH26683-1914.3



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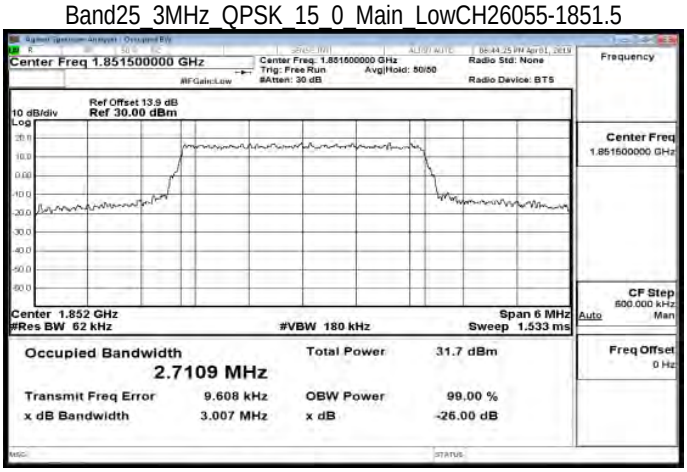
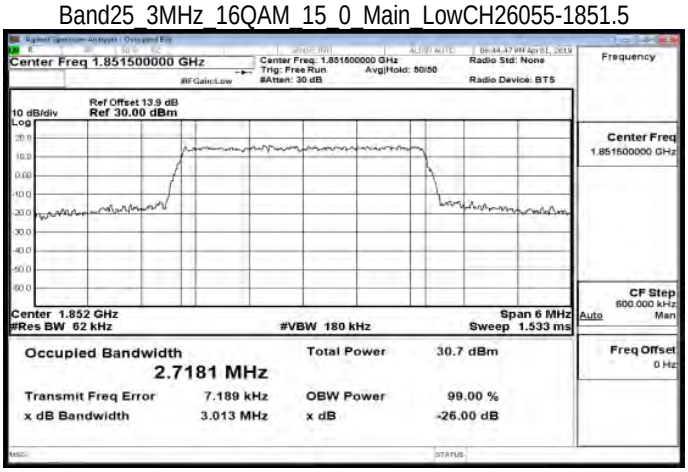
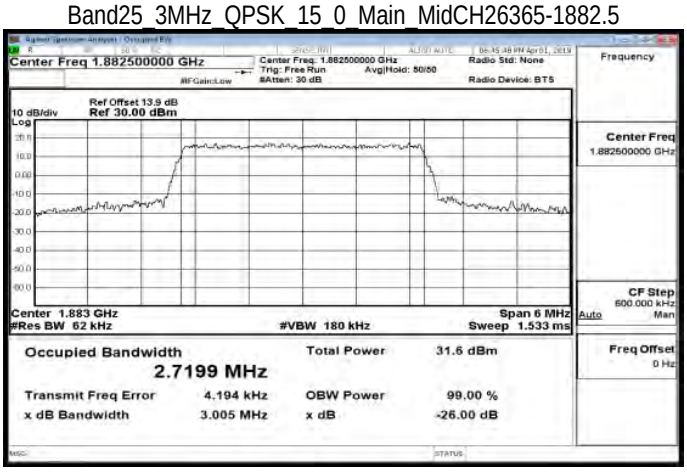
Band25_3MHz_QPSK_15_0_Main_LowCH26055-1851.5



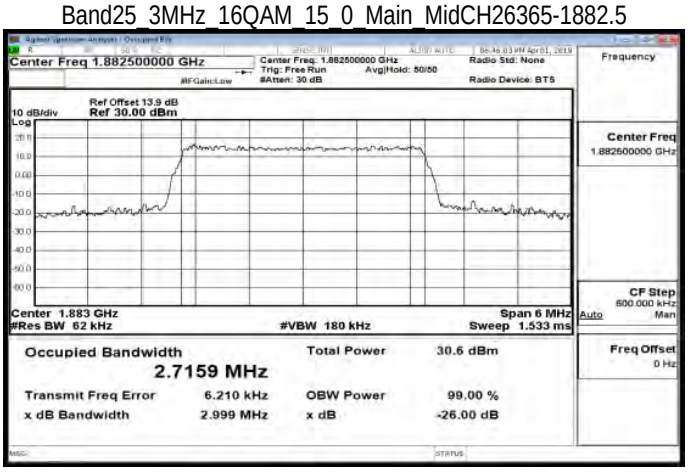
Band25_3MHz_16QAM_15_0_Main_LowCH26055-1851.5



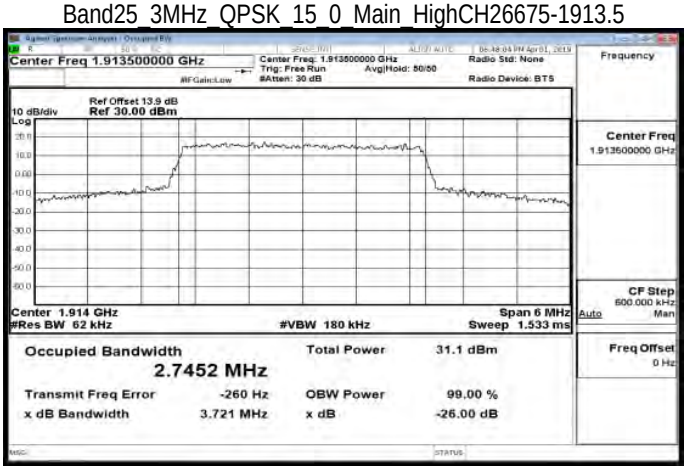
Band25_3MHz_QPSK_15_0_Main_MidCH26365-1882.5



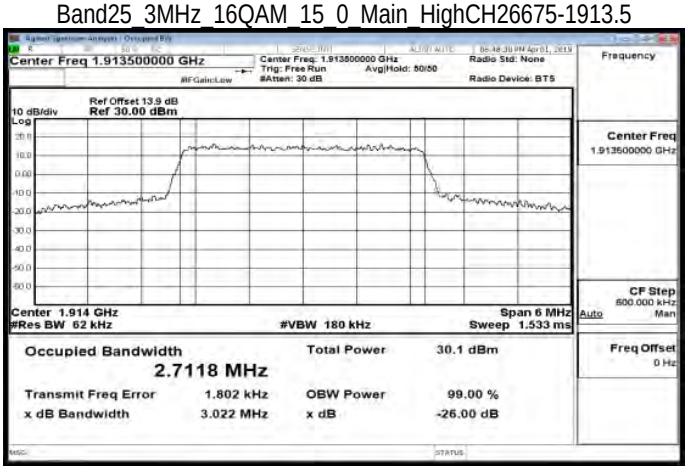
Band25_3MHz_16QAM_15_0_Main_MidCH26365-1882.5



Band25_3MHz_QPSK_15_0_Main_HighCH26675-1913.5



Band25_3MHz_16QAM_15_0_Main_HighCH26675-1913.5



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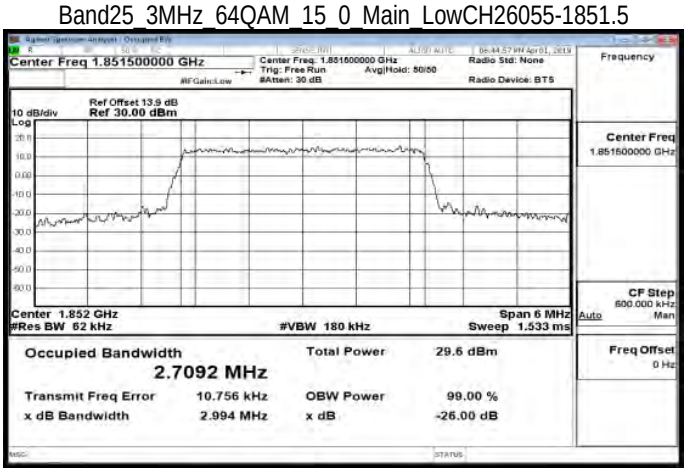
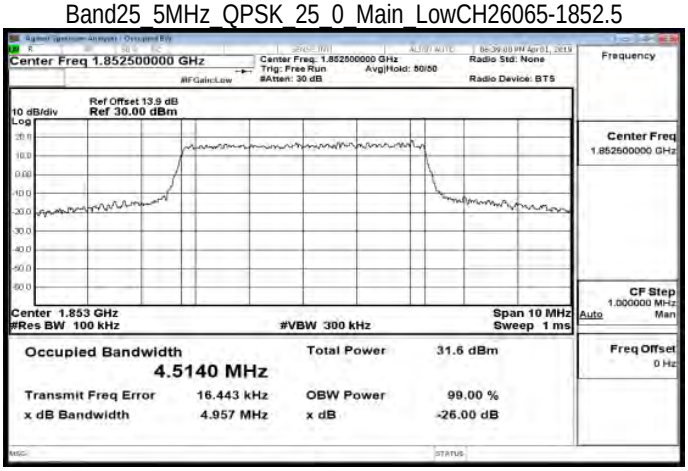
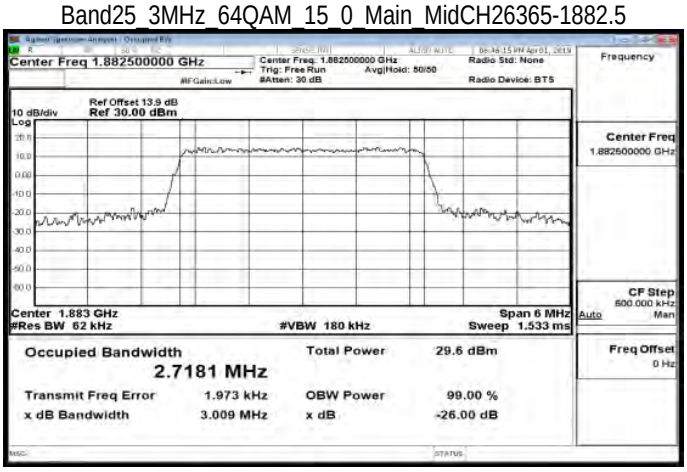
Band25_3MHz_64QAM_15_0_Main_LowCH26055-1851.5



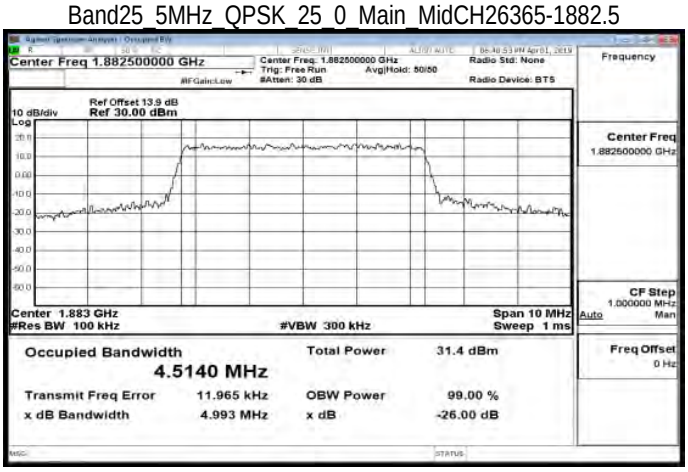
Band25_5MHz_QPSK_25_0_Main_LowCH26065-1852.5



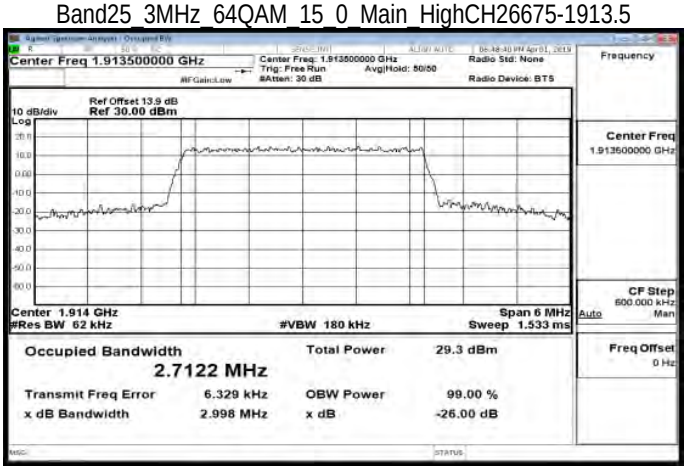
Band25_3MHz_64QAM_15_0_Main_MidCH26365-1882.5



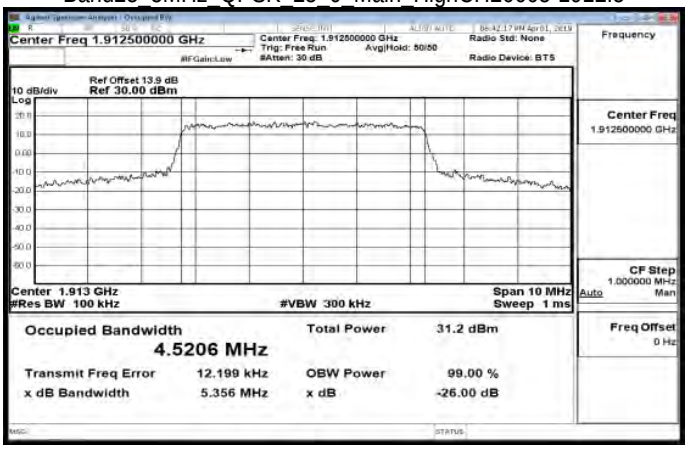
Band25_5MHz_QPSK_25_0_Main_MidCH26365-1882.5



Band25_3MHz_64QAM_15_0_Main_HighCH26675-1913.5



Band25_5MHz_QPSK_25_0_Main_HighCH26665-1912.5



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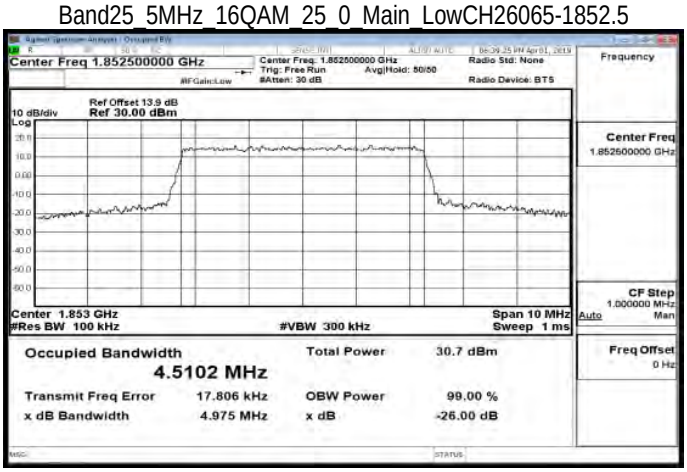
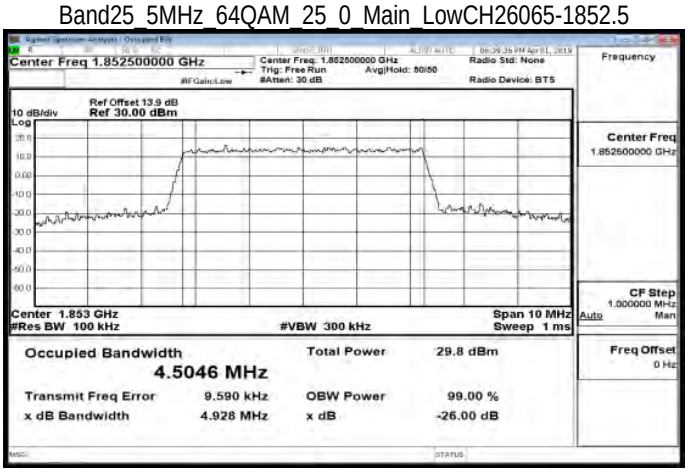
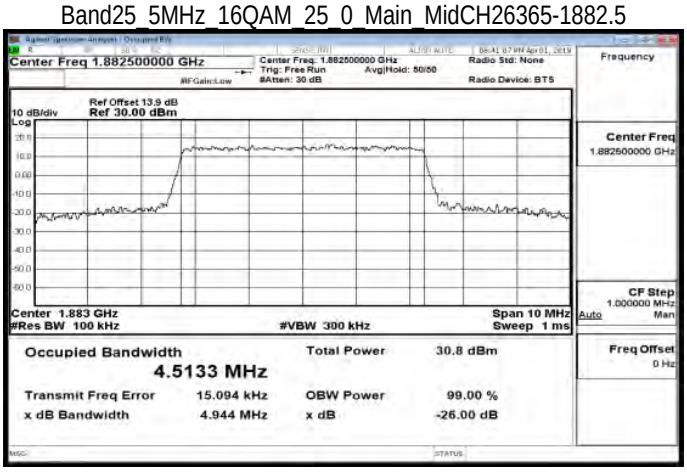
Band25_5MHz_16QAM_25_0_Main_LowCH26065-1852.5



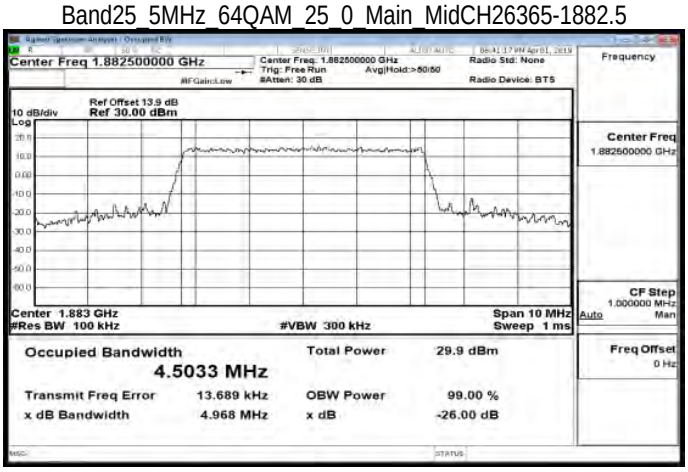
Band25_5MHz_64QAM_25_0_Main_LowCH26065-1852.5



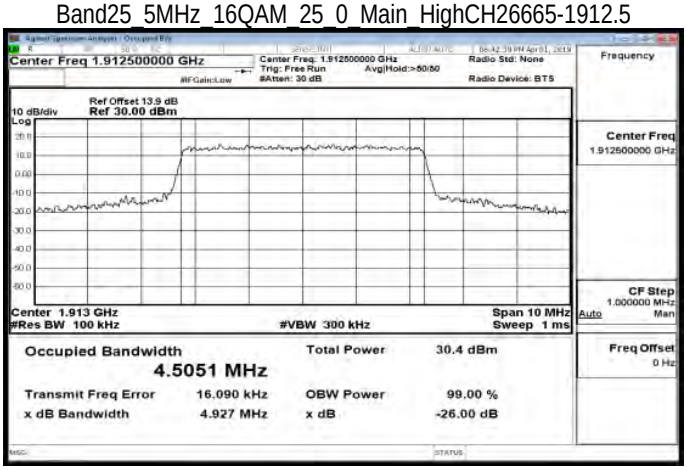
Band25_5MHz_16QAM_25_0_Main_MidCH26365-1882.5



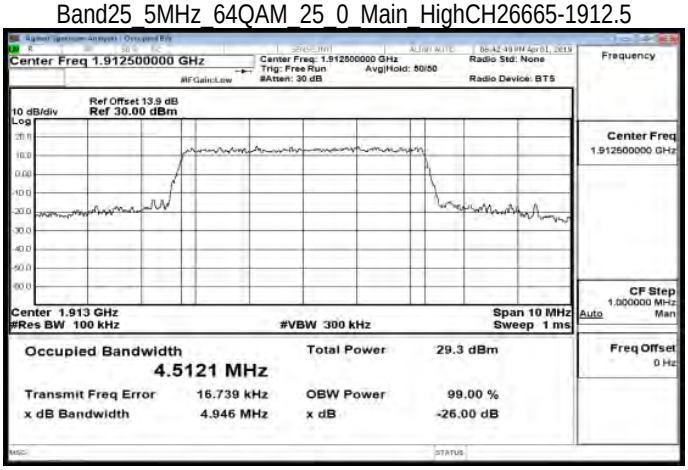
Band25_5MHz_64QAM_25_0_Main_MidCH26365-1882.5



Band25_5MHz_16QAM_25_0_Main_HighCH26665-1912.5



Band25_5MHz_64QAM_25_0_Main_HighCH26665-1912.5



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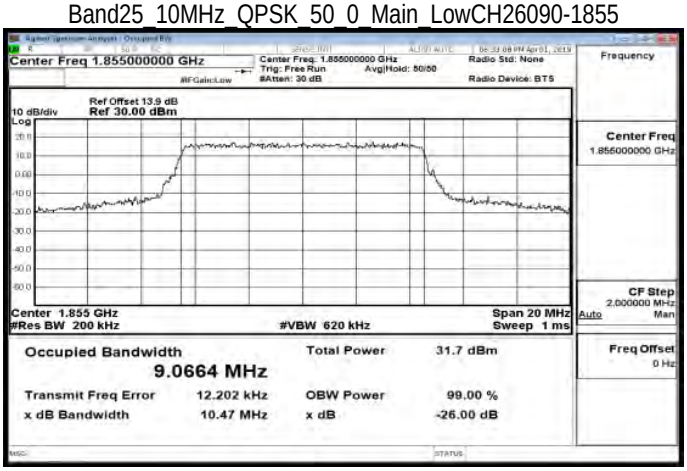
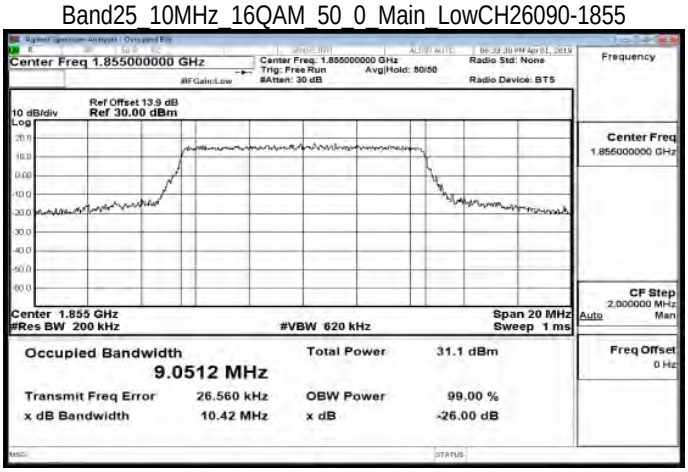
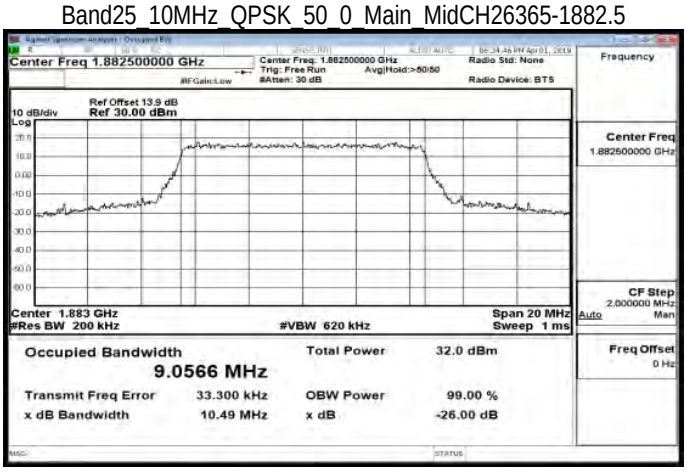
Band25_10MHz_QPSK_50_0_Main_LowCH26090-1855



Band25_10MHz_16QAM_50_0_Main_LowCH26090-1855



Band25_10MHz_QPSK_50_0_Main_MidCH26365-1882.5



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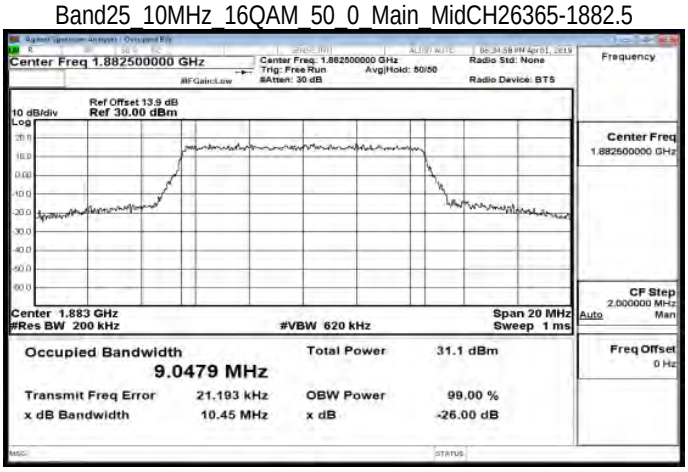
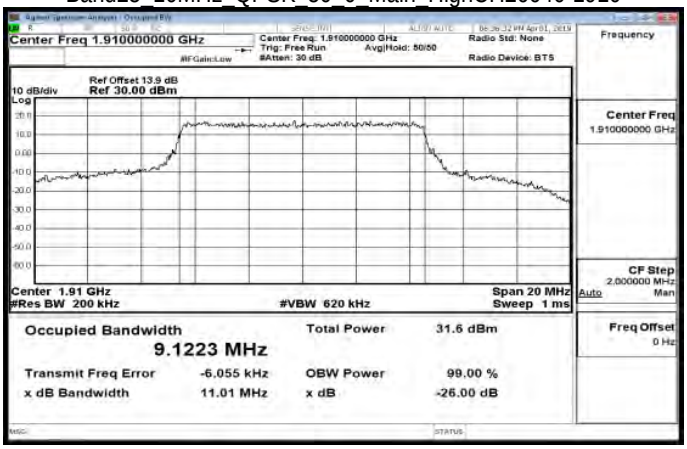


Band25_10MHz_QPSK_50_0_Main_HighCH26640-1910



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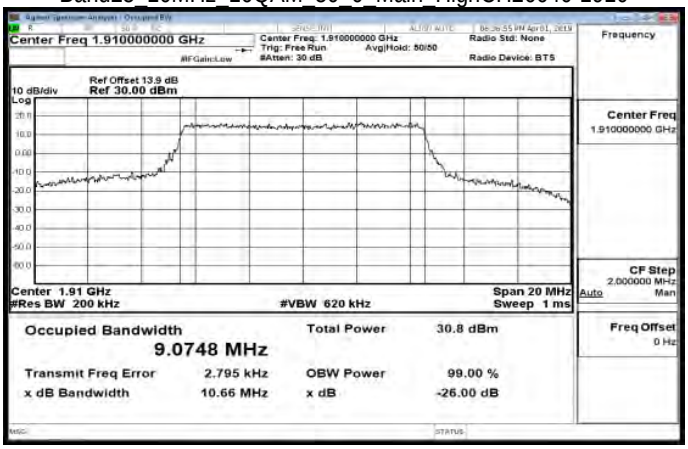

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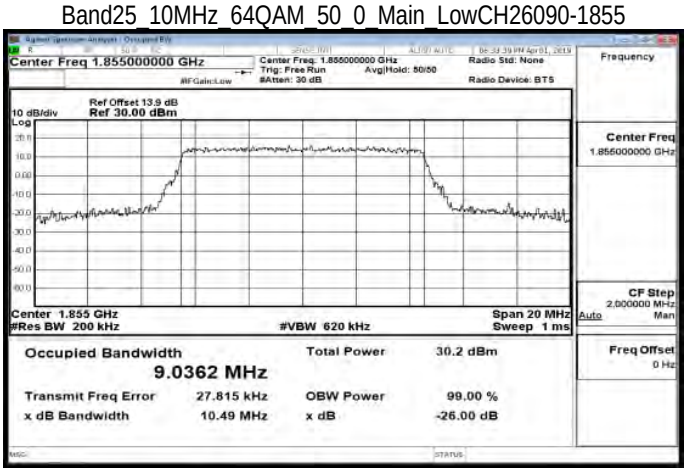
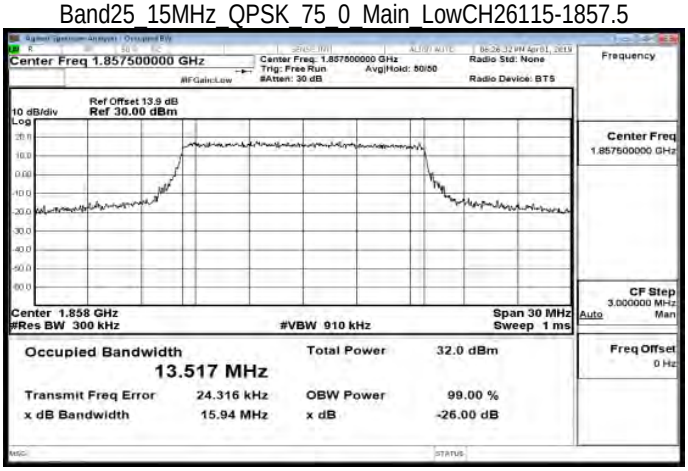
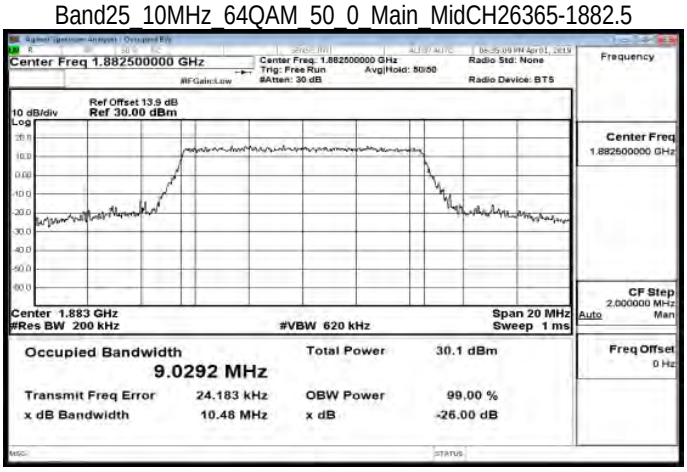
Band25_10MHz_64QAM_50_0_Main_LowCH26090-1855



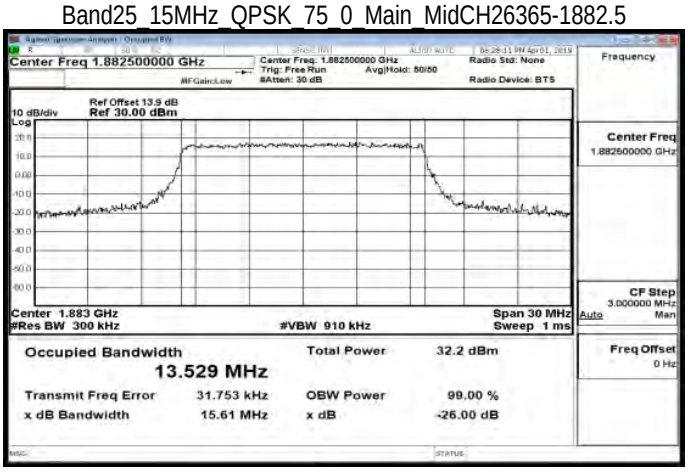
Band25_15MHz_QPSK_75_0_Main_LowCH26115-1857.5



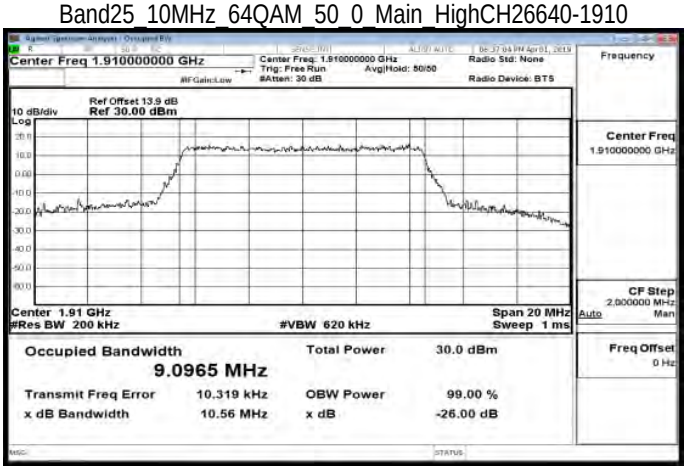
Band25_10MHz_64QAM_50_0_Main_MidCH26365-1882.5



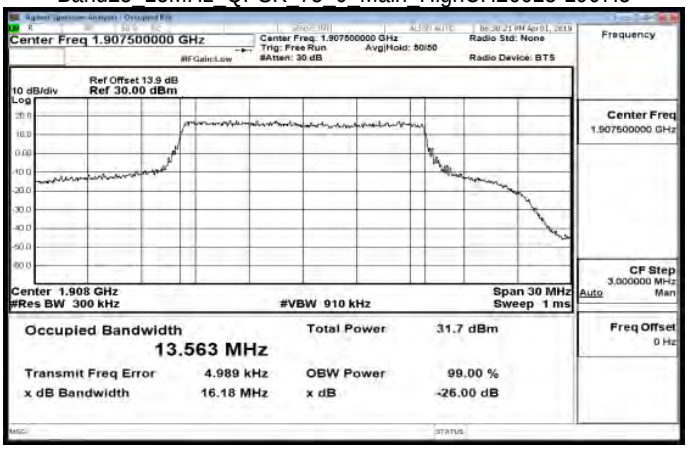
Band25_15MHz_QPSK_75_0_Main_MidCH26365-1882.5



Band25_10MHz_64QAM_50_0_Main_HighCH26640-1910



Band25_15MHz_QPSK_75_0_Main_HighCH26615-1907.5



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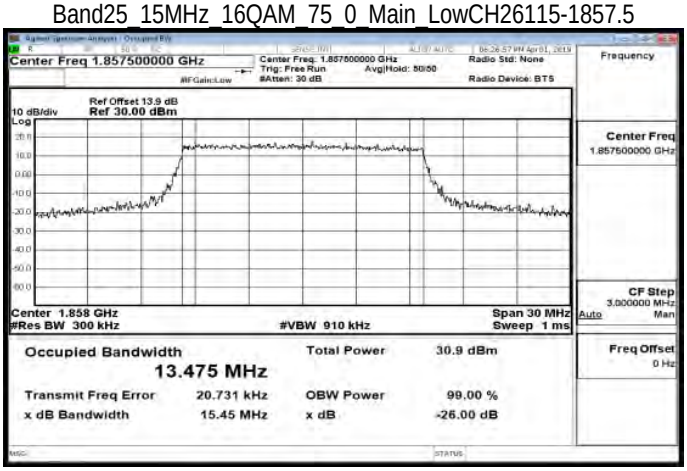
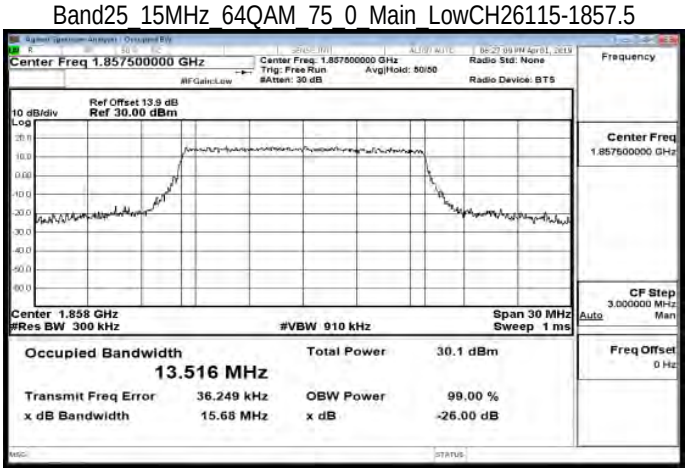
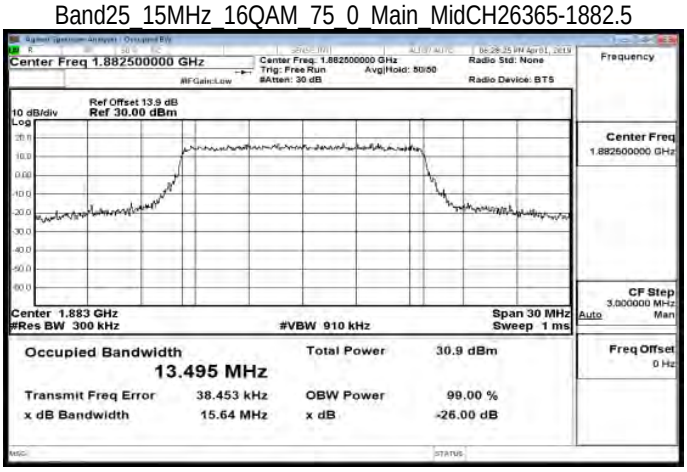
Band25_15MHz_16QAM_75_0_Main_LowCH26115-1857.5



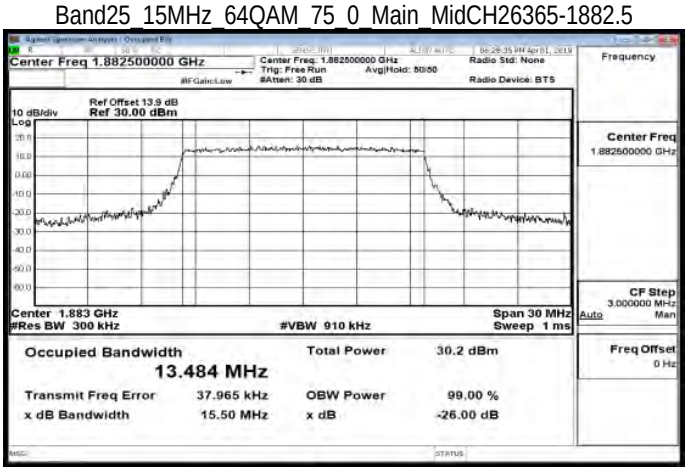
Band25_15MHz_64QAM_75_0_Main_LowCH26115-1857.5



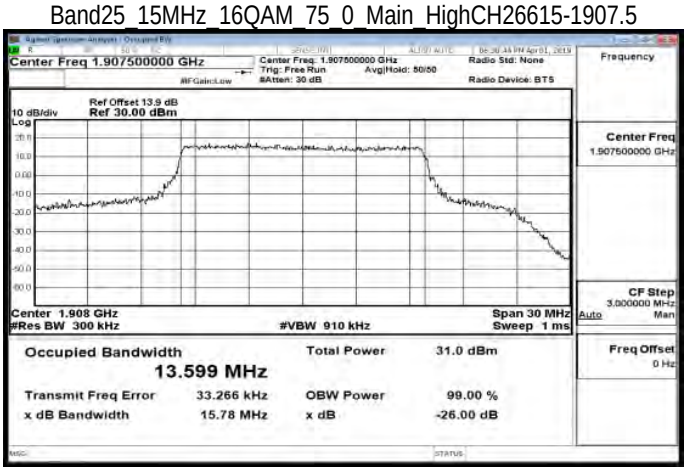
Band25_15MHz_16QAM_75_0_Main_MidCH26365-1882.5



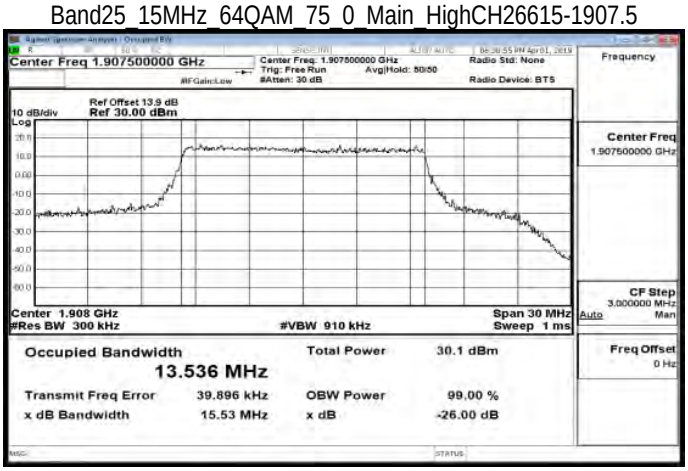
Band25_15MHz_64QAM_75_0_Main_MidCH26365-1882.5



Band25_15MHz_16QAM_75_0_Main_HighCH26615-1907.5



Band25_15MHz_64QAM_75_0_Main_HighCH26615-1907.5



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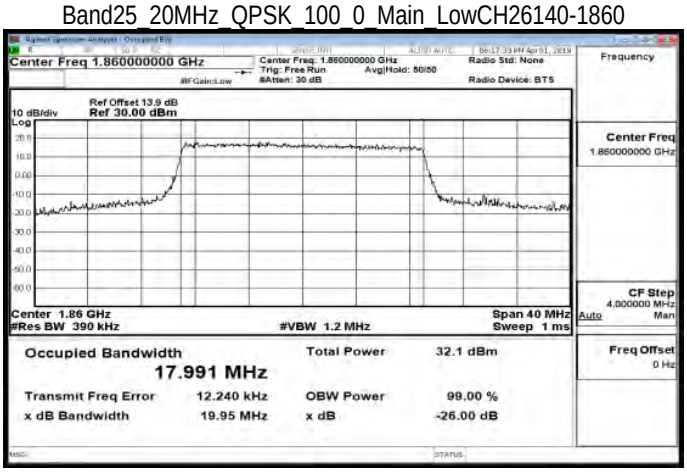
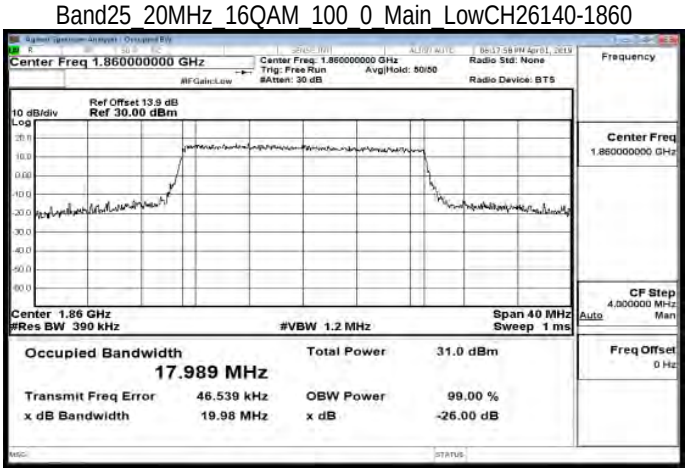
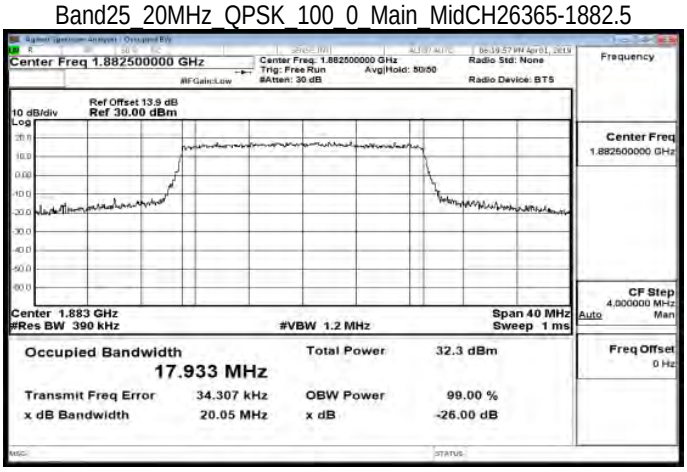
Band25_20MHz_QPSK_100_0_Main_LowCH26140-1860



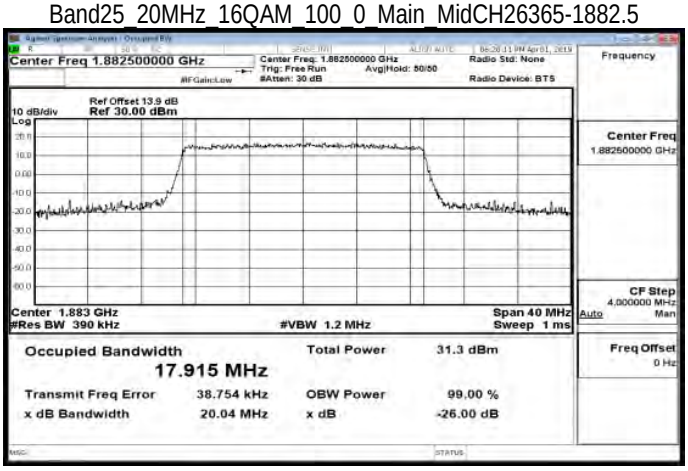
Band25_20MHz_16QAM_100_0_Main_LowCH26140-1860



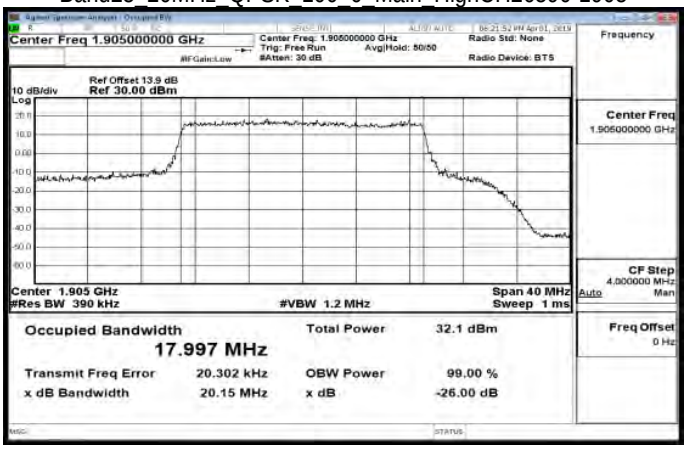
Band25_20MHz_QPSK_100_0_Main_MidCH26365-1882.5



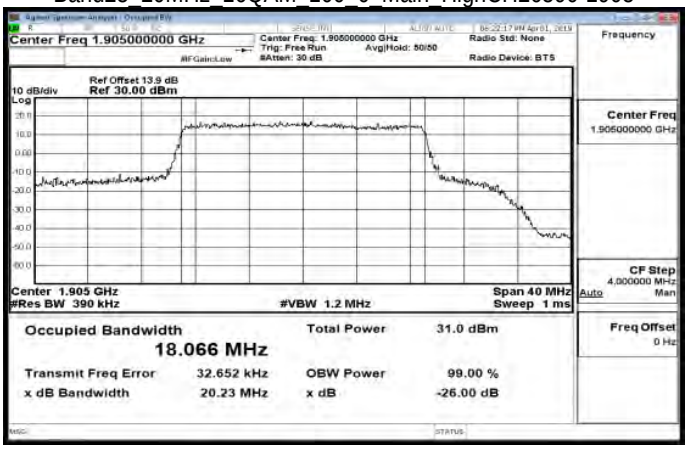
Band25_20MHz_16QAM_100_0_Main_MidCH26365-1882.5



Band25_20MHz_QPSK_100_0_Main_HighCH26590-1905



Band25_20MHz_16QAM_100_0_Main_HighCH26590-1905



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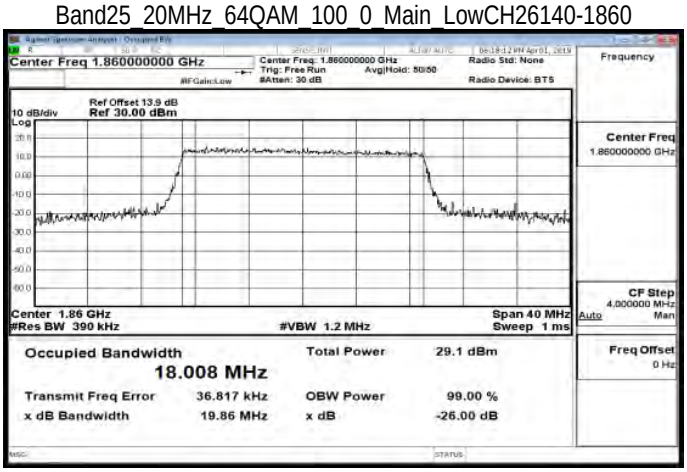
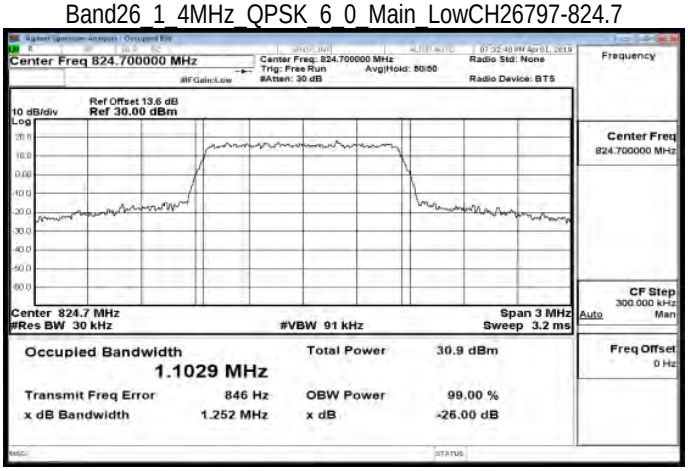
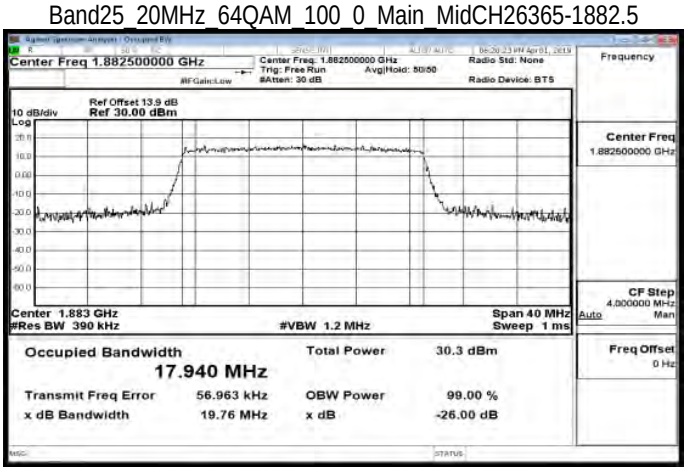
Band25_20MHz_64QAM_100_0_Main_LowCH26140-1860



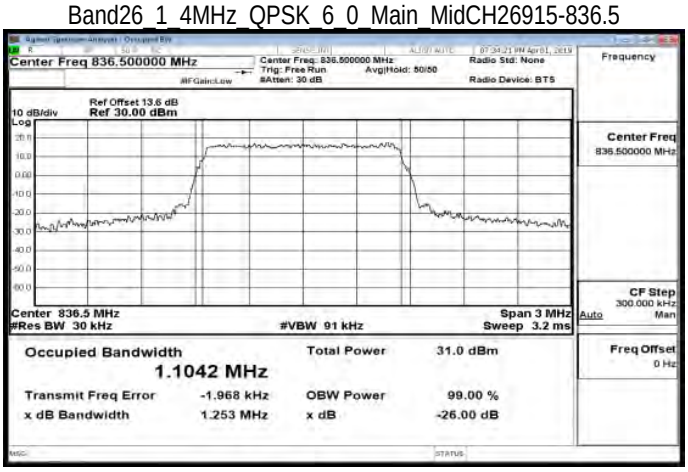
Band26_1_4MHz_QPSK_6_0_Main_LowCH26797-824.7



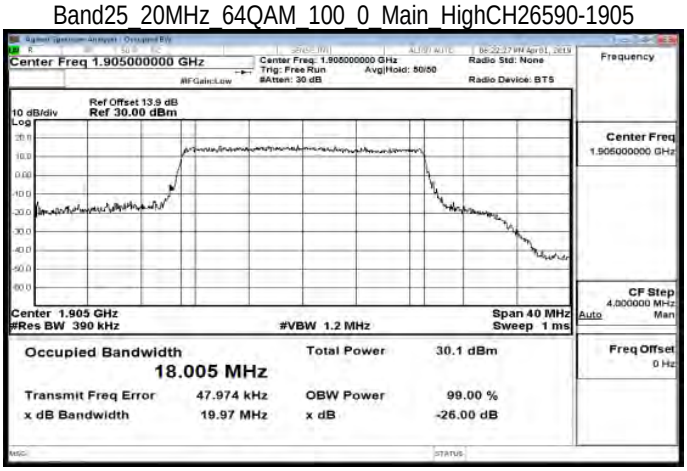
Band25_20MHz_64QAM_100_0_Main_MidCH26365-1882.5



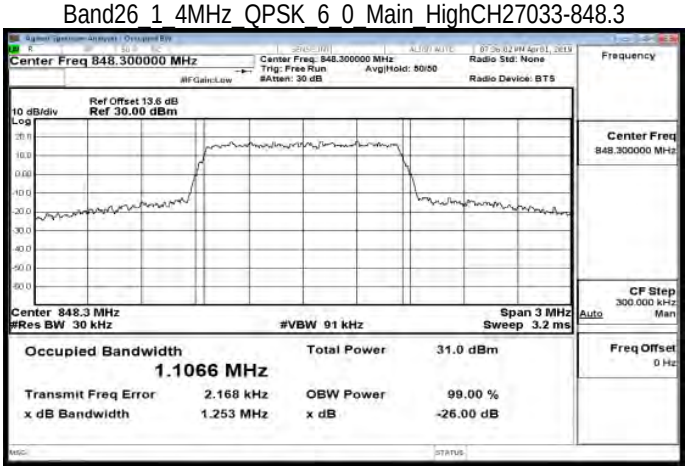
Band26_1_4MHz_QPSK_6_0_Main_MidCH26915-836.5



Band25_20MHz_64QAM_100_0_Main_HighCH26590-1905



Band26_1_4MHz_QPSK_6_0_Main_HighCH27033-848.3



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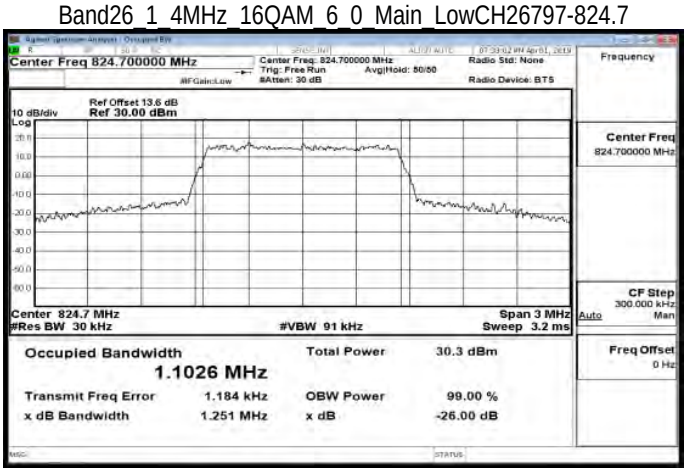
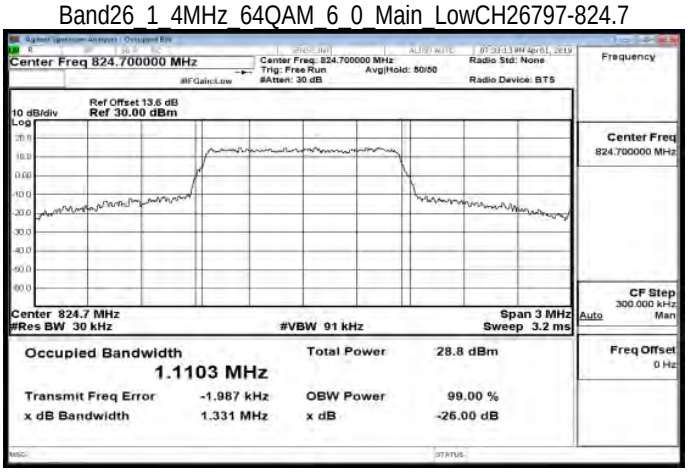
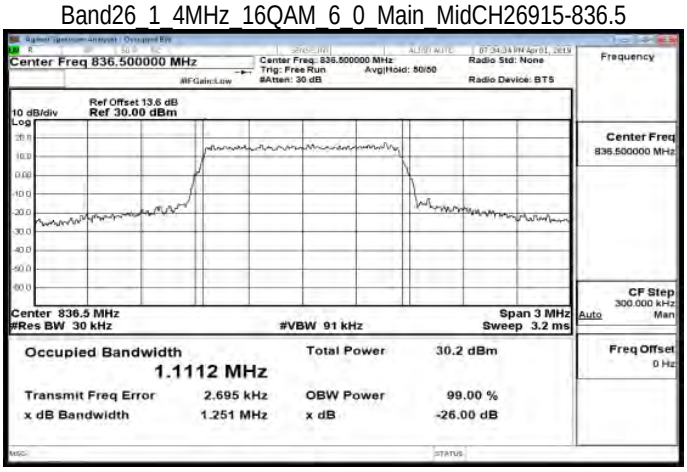
Band26_1_4MHz_16QAM_6_0_Main_LowCH26797-824.7



Band26_1_4MHz_64QAM_6_0_Main_LowCH26797-824.7



Band26_1_4MHz_16QAM_6_0_Main_MidCH26915-836.5



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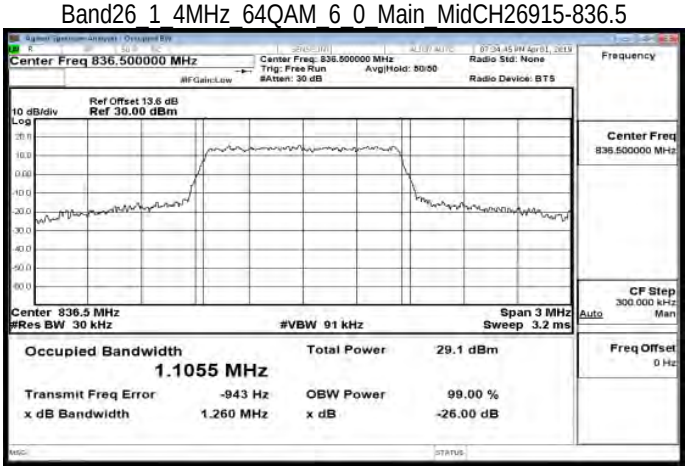
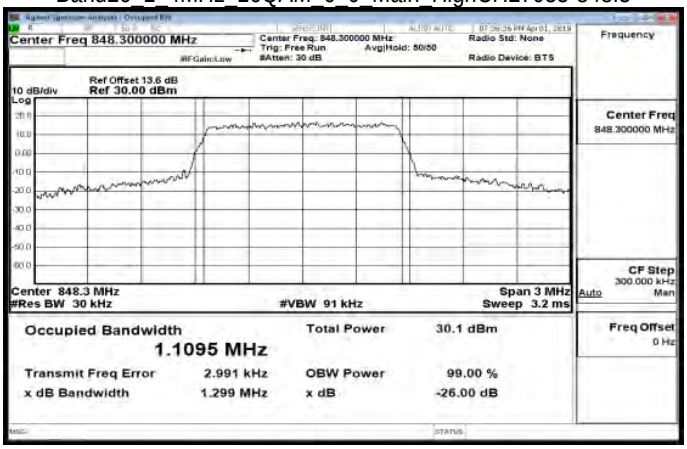
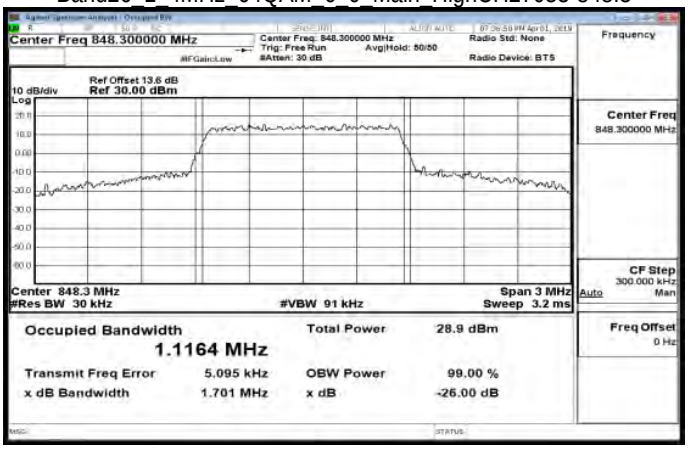


Band26_1_4MHz_16QAM_6_0_Main_HighCH27033-848.3



Band26_1_4MHz_64QAM_6_0_Main_HighCH27033-848.3



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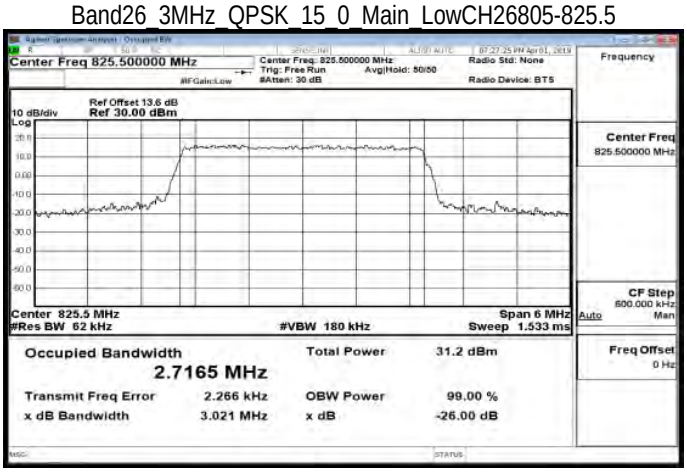
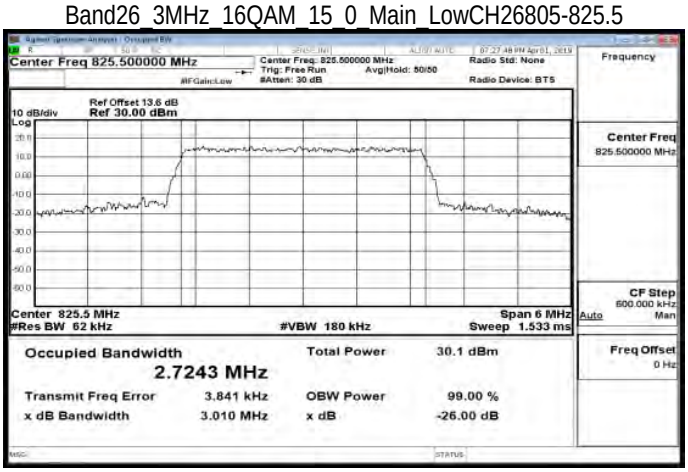
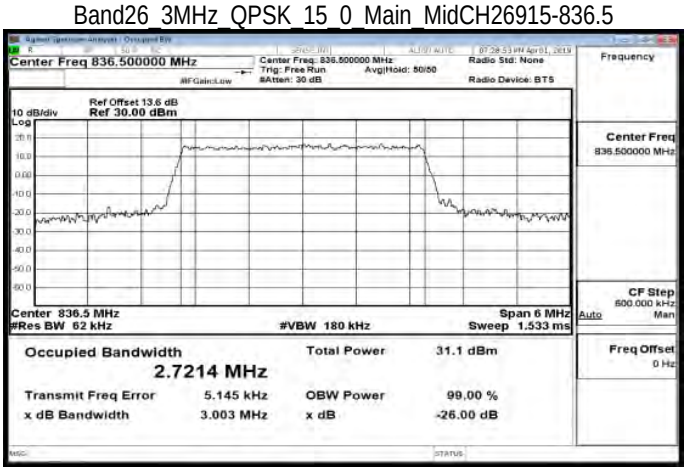
Band26_3MHz_QPSK_15_0_Main_LowCH26805-825.5



Band26_3MHz_16QAM_15_0_Main_LowCH26805-825.5



Band26_3MHz_QPSK_15_0_Main_MidCH26915-836.5



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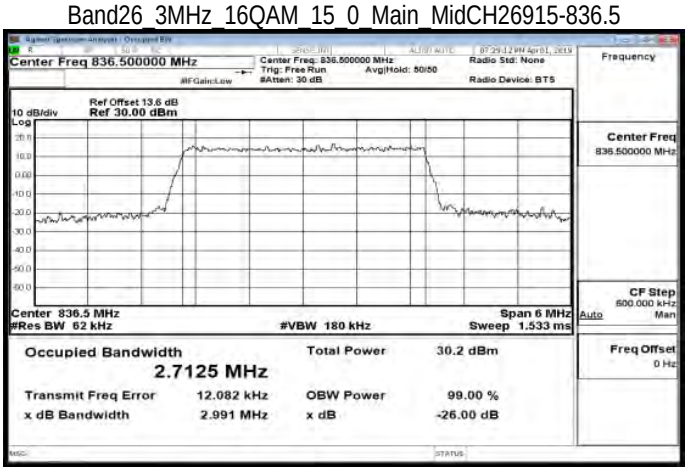

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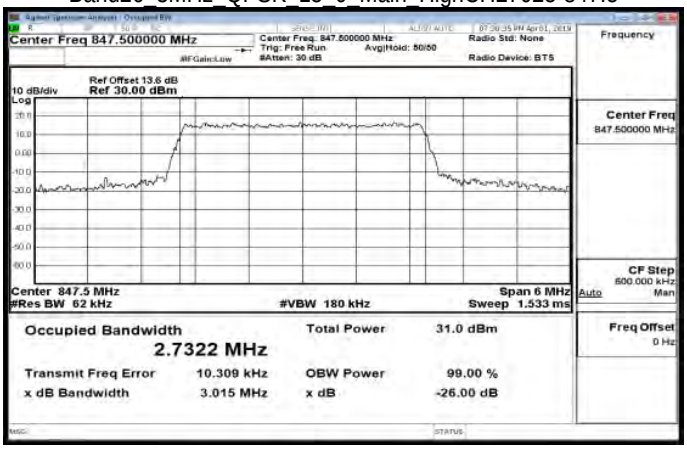

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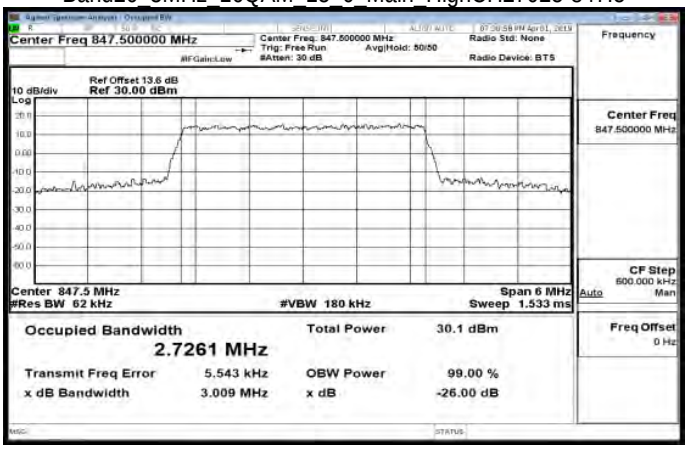

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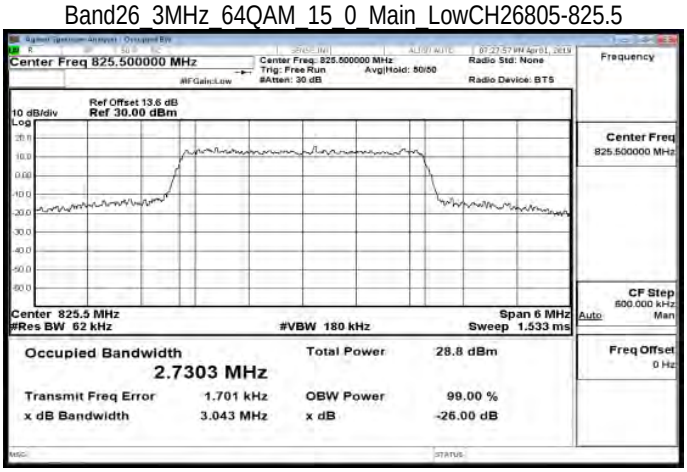
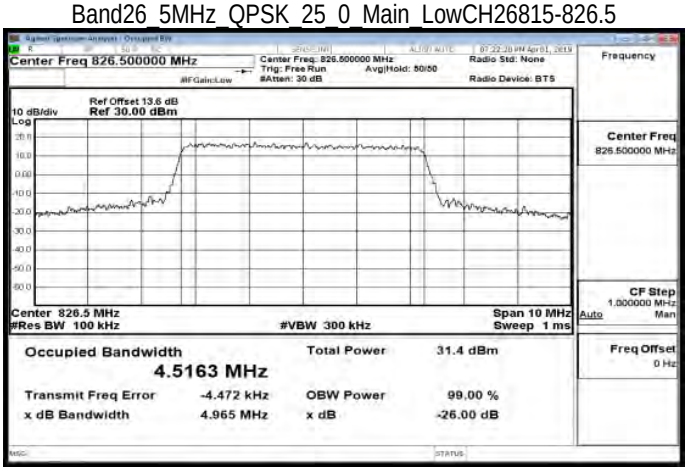
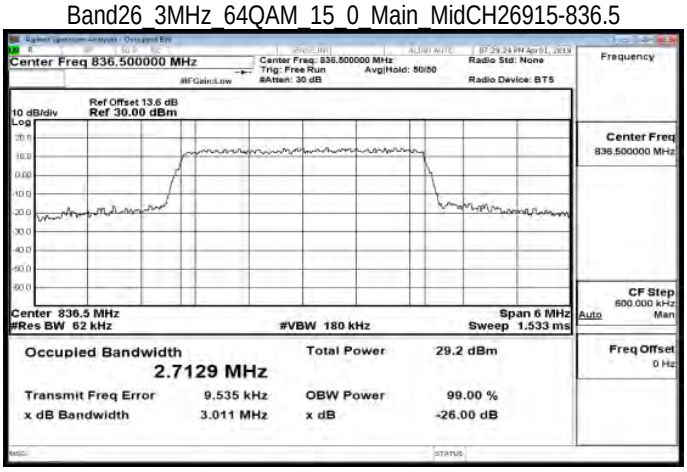
Band26_3MHz_64QAM_15_0_Main_LowCH26805-825.5



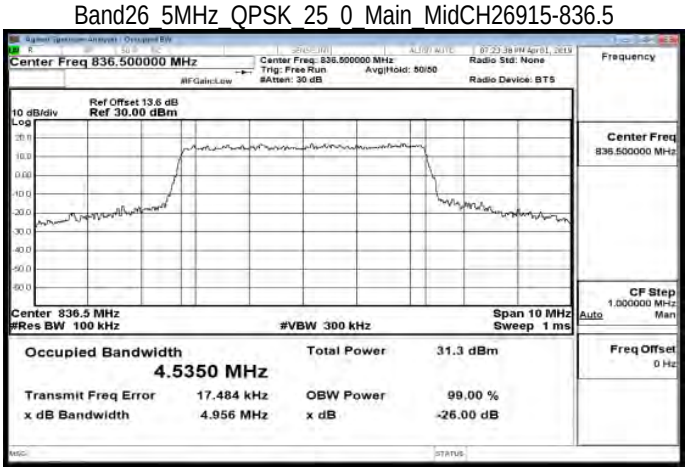
Band26_5MHz_QPSK_25_0_Main_LowCH26815-826.5



Band26_3MHz_64QAM_15_0_Main_MidCH26915-836.5



Band26_5MHz_QPSK_25_0_Main_MidCH26915-836.5



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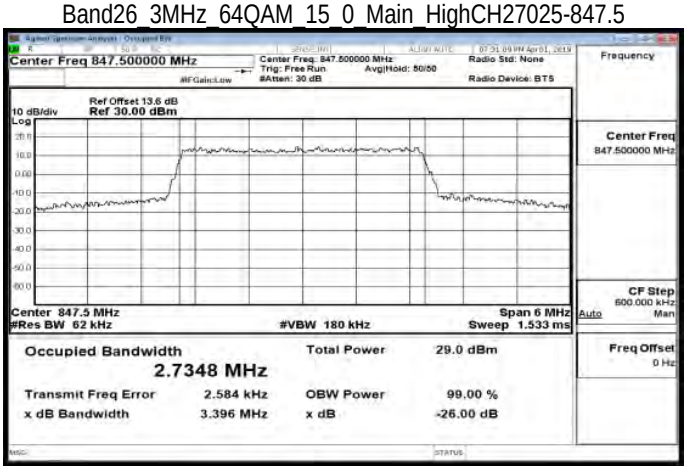
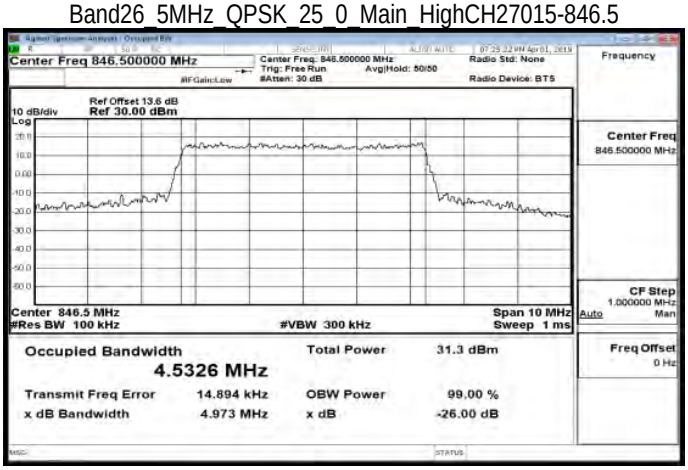


Band26_5MHz_QPSK_25_0_Main_HighCH27015-846.5



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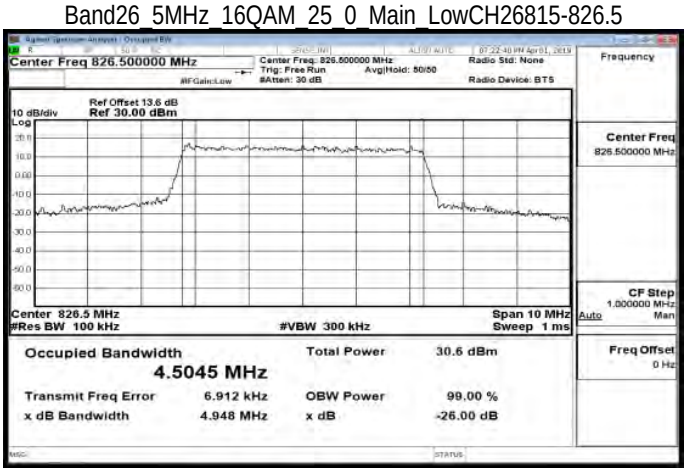
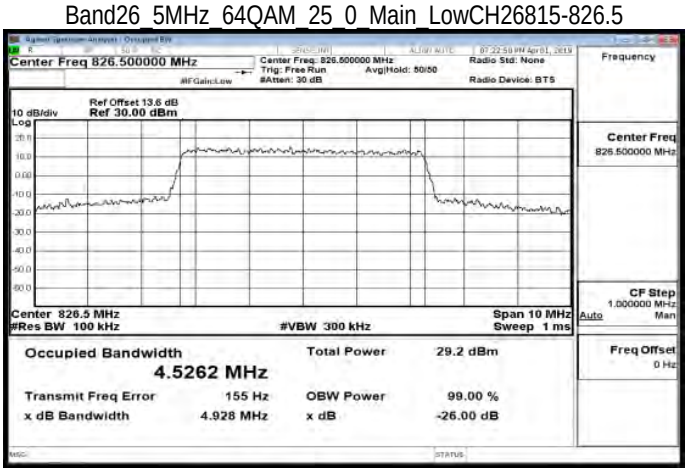
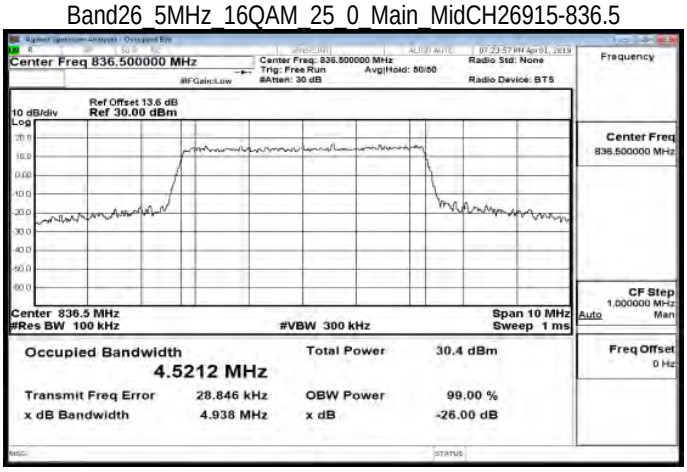
Band26_5MHz_16QAM_25_0_Main_LowCH26815-826.5



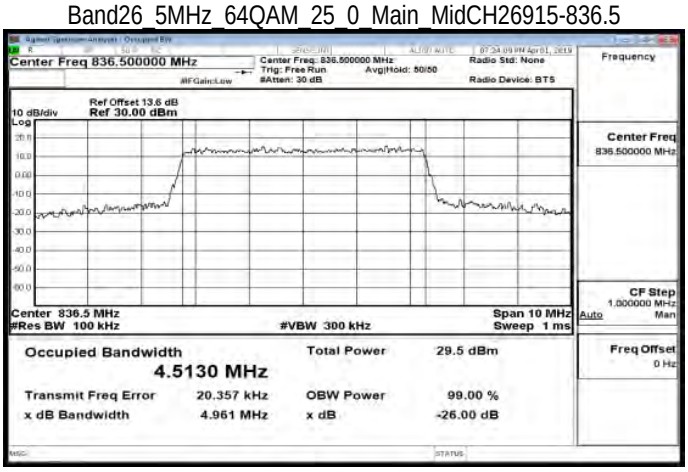
Band26_5MHz_64QAM_25_0_Main_LowCH26815-826.5



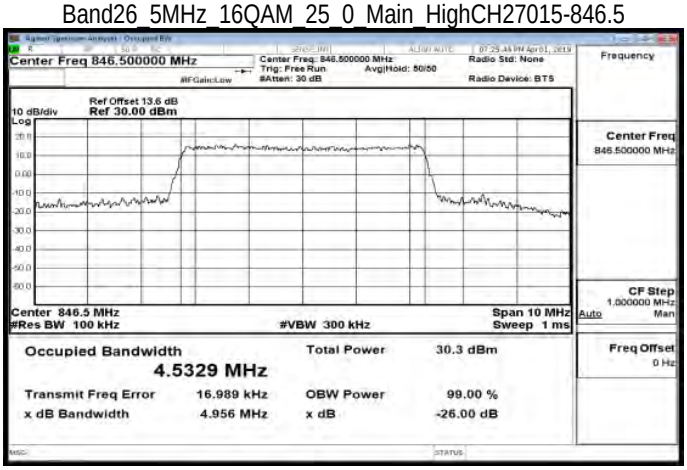
Band26_5MHz_16QAM_25_0_Main_MidCH26915-836.5



Band26_5MHz_64QAM_25_0_Main_MidCH26915-836.5



Band26_5MHz_16QAM_25_0_Main_HighCH27015-846.5



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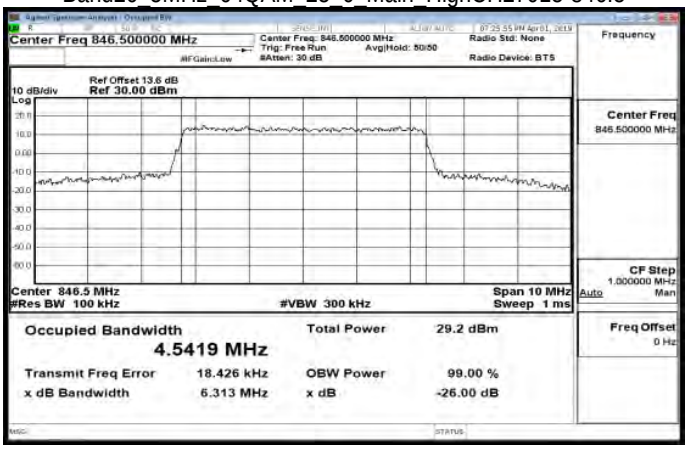

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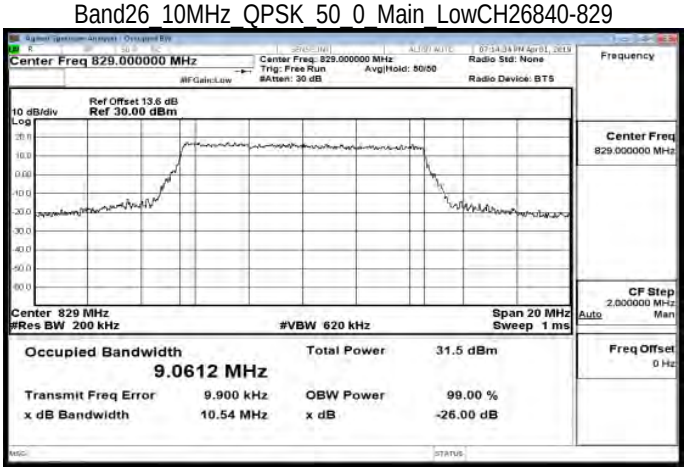
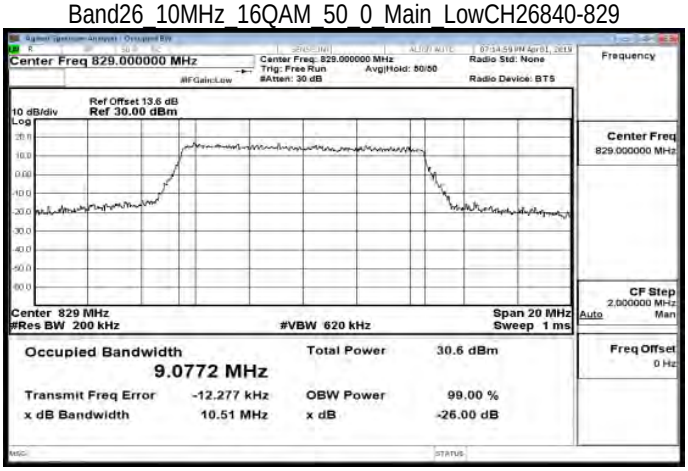
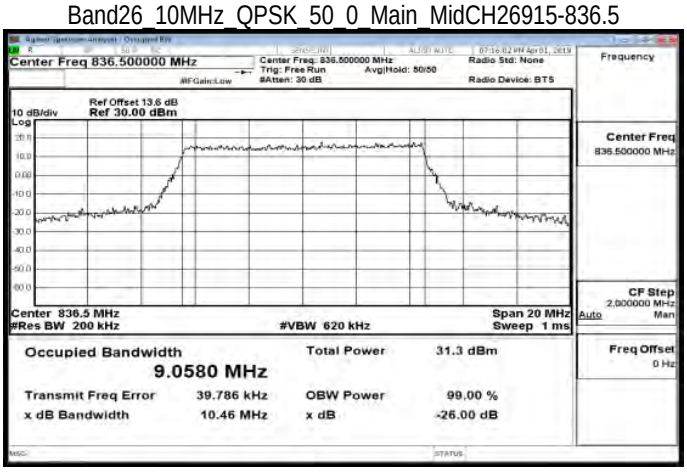
Band26_10MHz_QPSK_50_0_Main_LowCH26840-829



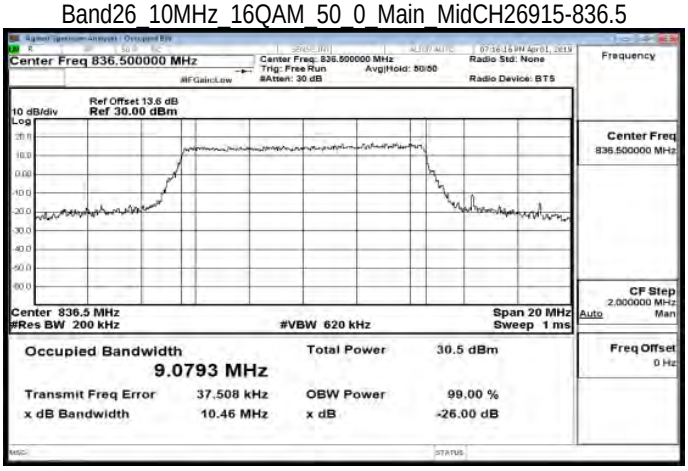
Band26_10MHz_16QAM_50_0_Main_LowCH26840-829



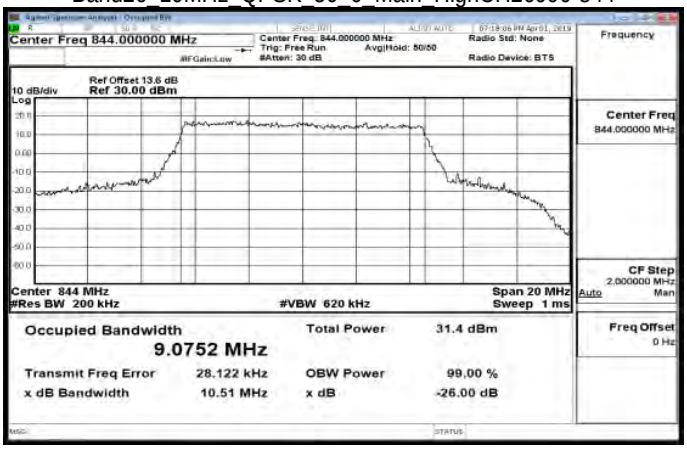
Band26_10MHz_QPSK_50_0_Main_MidCH26915-836.5



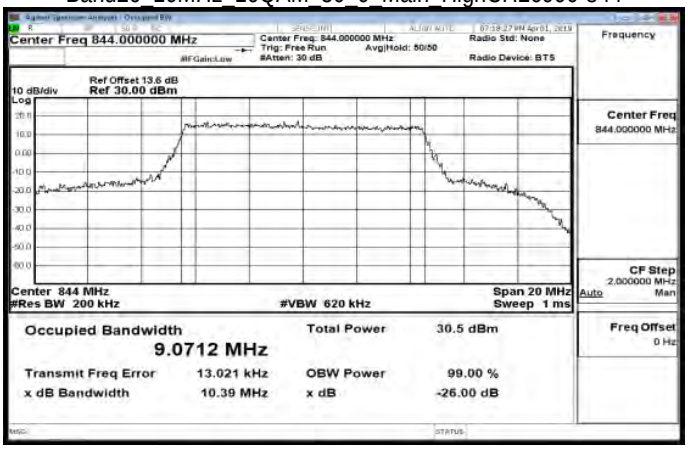
Band26_10MHz_16QAM_50_0_Main_MidCH26915-836.5



Band26_10MHz_QPSK_50_0_Main_HighCH26990-844



Band26_10MHz_16QAM_50_0_Main_HighCH26990-844



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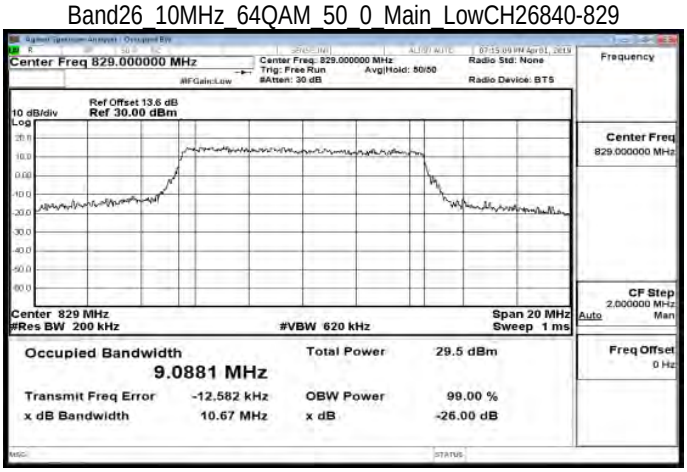
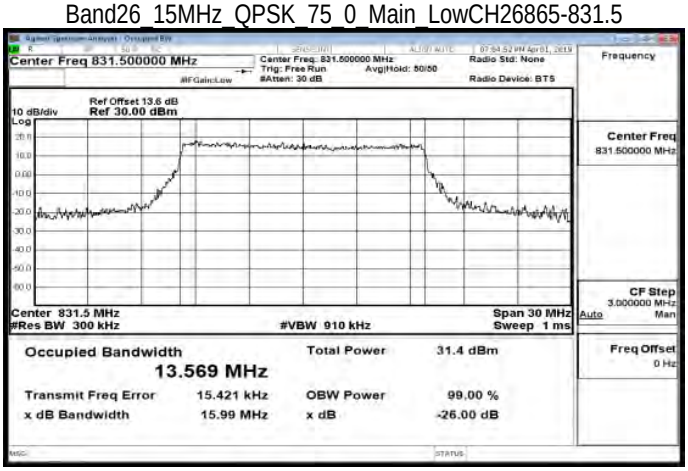
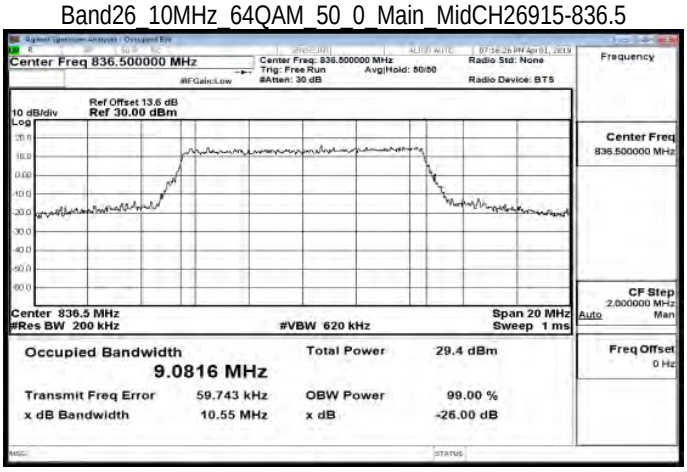
Band26_10MHz_64QAM_50_0_Main_LowCH26840-829



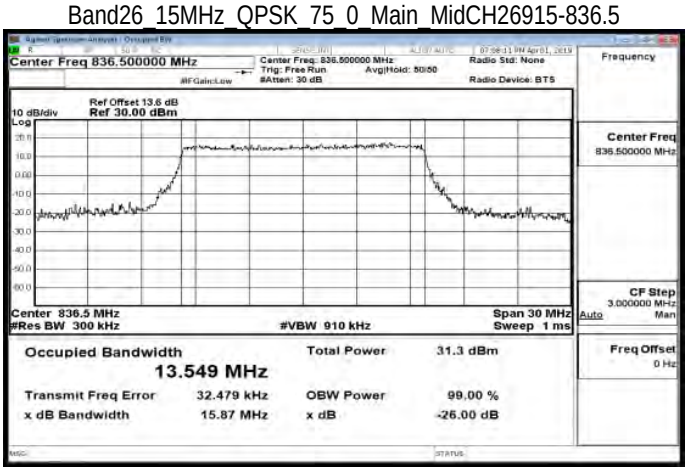
Band26_15MHz_QPSK_75_0_Main_LowCH26865-831.5



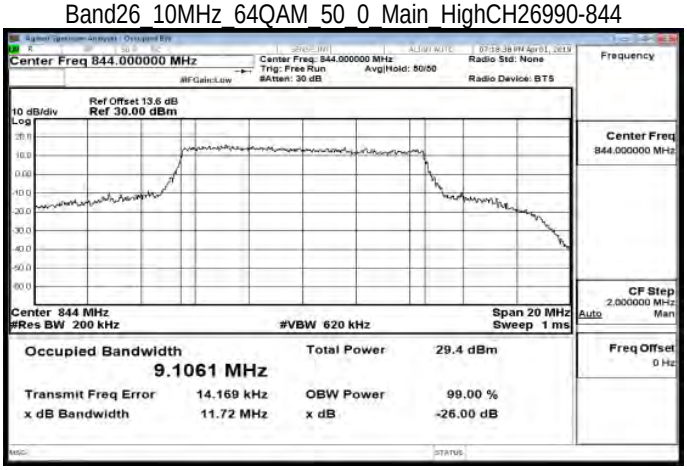
Band26_10MHz_64QAM_50_0_Main_MidCH26915-836.5



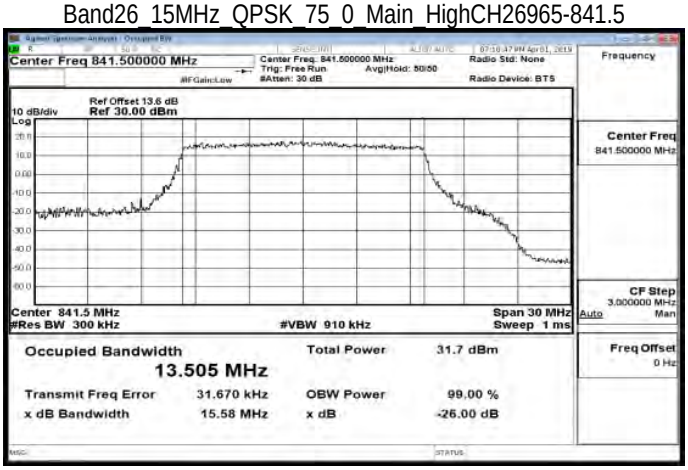
Band26_15MHz_QPSK_75_0_Main_MidCH26915-836.5



Band26_10MHz_64QAM_50_0_Main_HighCH26990-844



Band26_15MHz_QPSK_75_0_Main_HighCH26965-841.5



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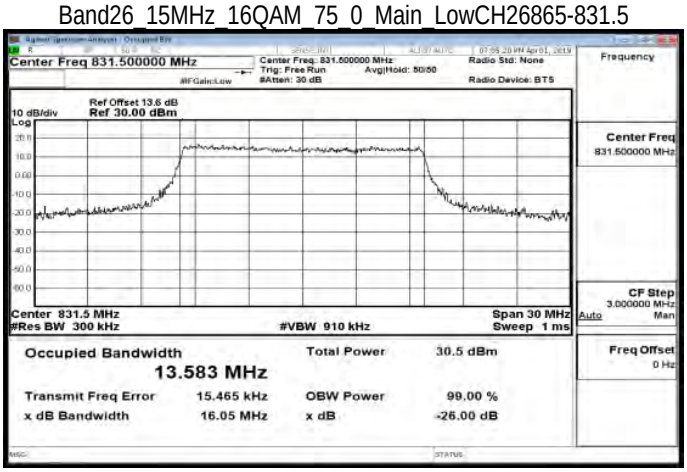
Band26_15MHz_16QAM_75_0_Main_LowCH26865-831.5



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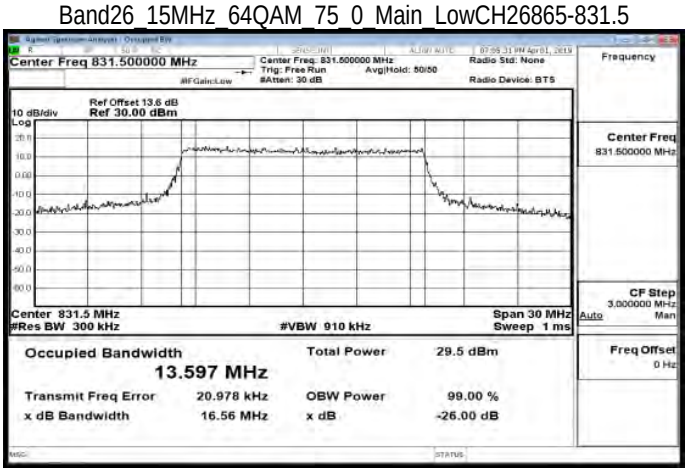
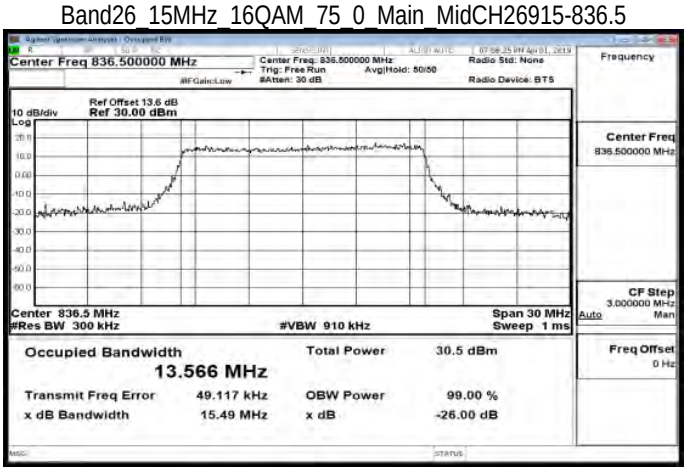


Band26_15MHz_16QAM_75_0_Main_MidCH26915-836.5



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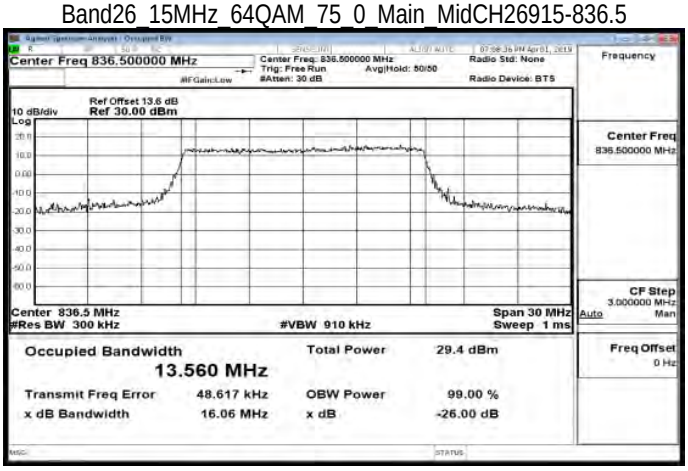
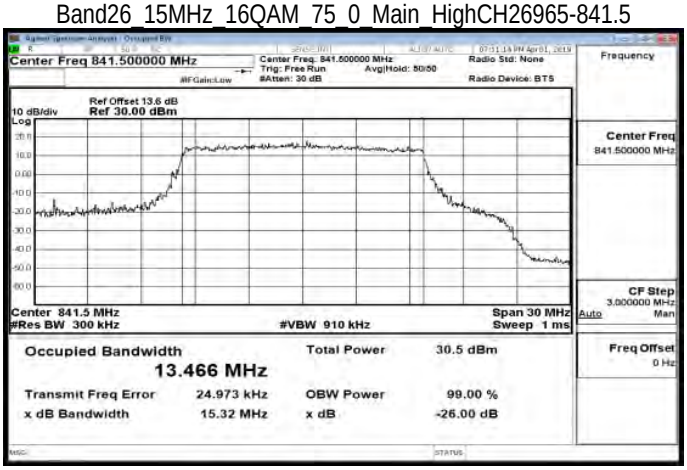
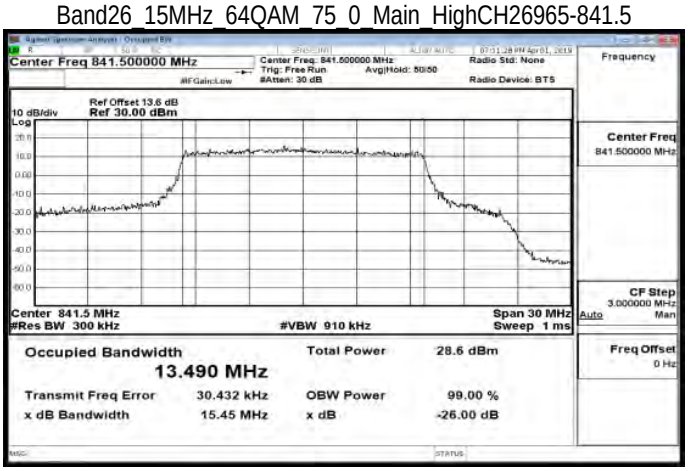


Band26_15MHz_16QAM_75_0_Main_HighCH26965-841.5



Band26_15MHz_64QAM_75_0_Main_HighCH26965-841.5



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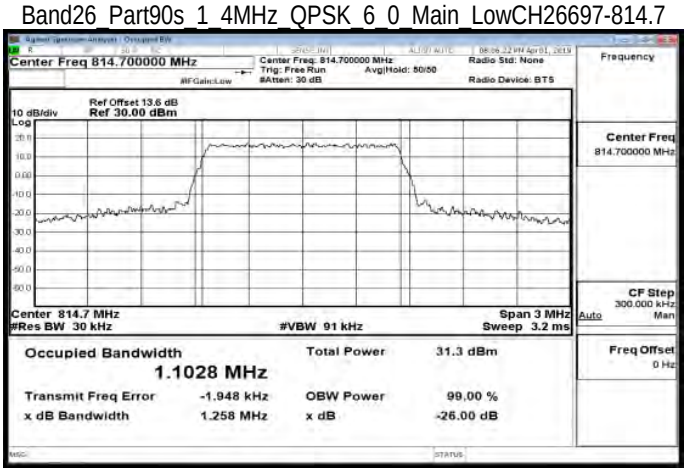
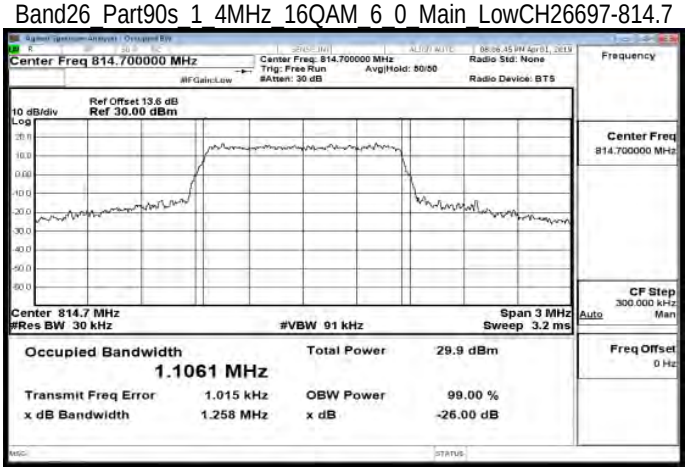
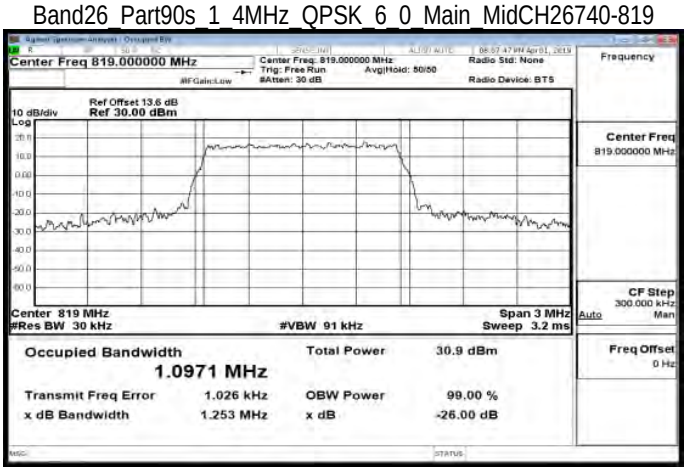
Band26_Part90s_1_4MHz_QPSK_6_0_Main_LowCH26697-814.7



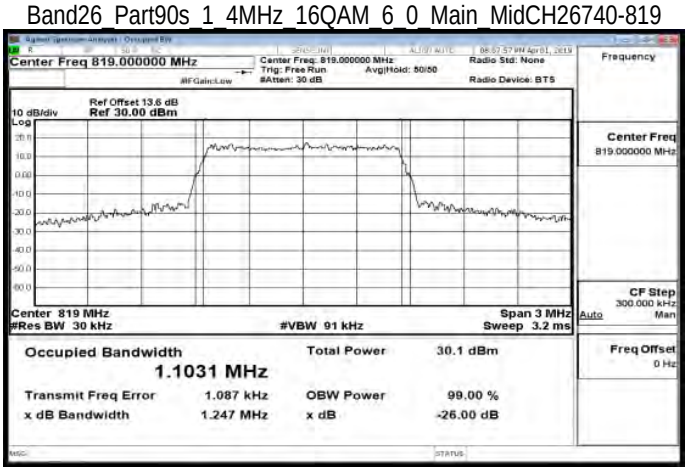
Band26_Part90s_1_4MHz_16QAM_6_0_Main_LowCH26697-814.7



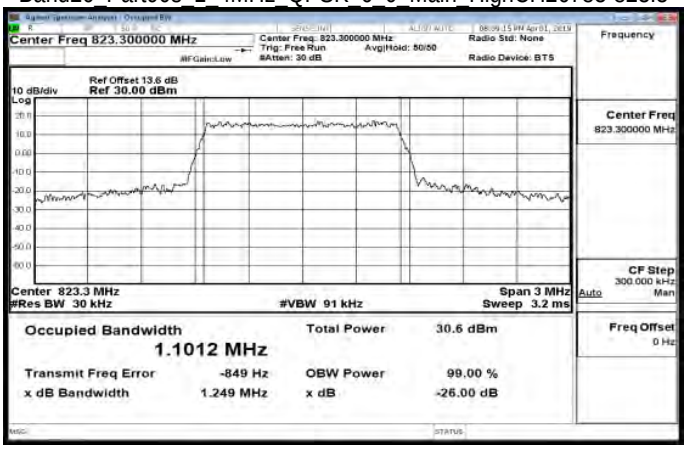
Band26_Part90s_1_4MHz_QPSK_6_0_Main_MidCH26740-819



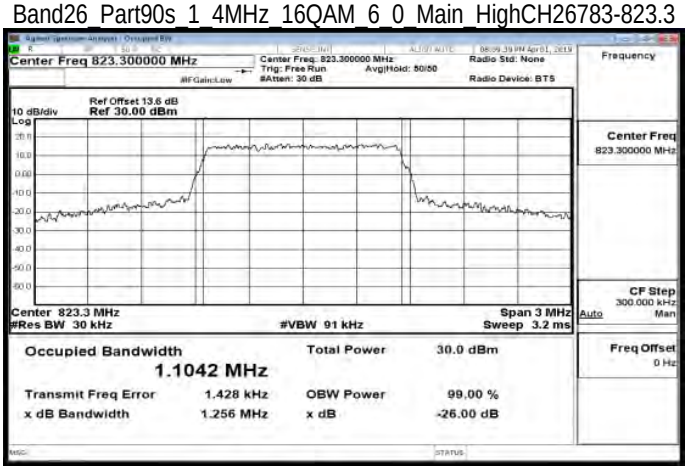
Band26_Part90s_1_4MHz_16QAM_6_0_Main_MidCH26740-819



Band26_Part90s_1_4MHz_QPSK_6_0_Main_HighCH26783-823.3



Band26_Part90s_1_4MHz_16QAM_6_0_Main_HighCH26783-823.3



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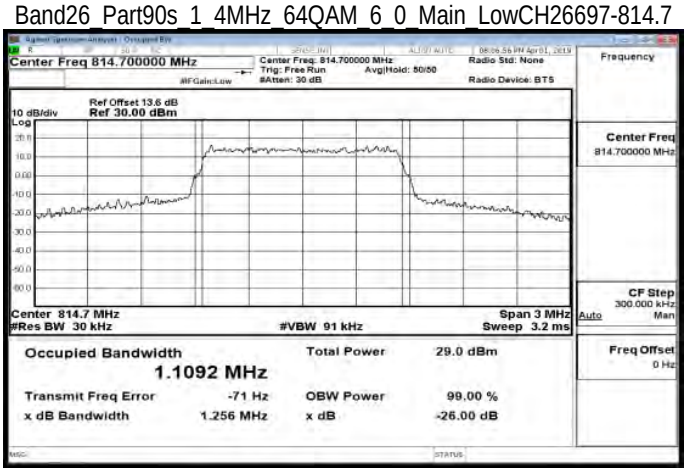
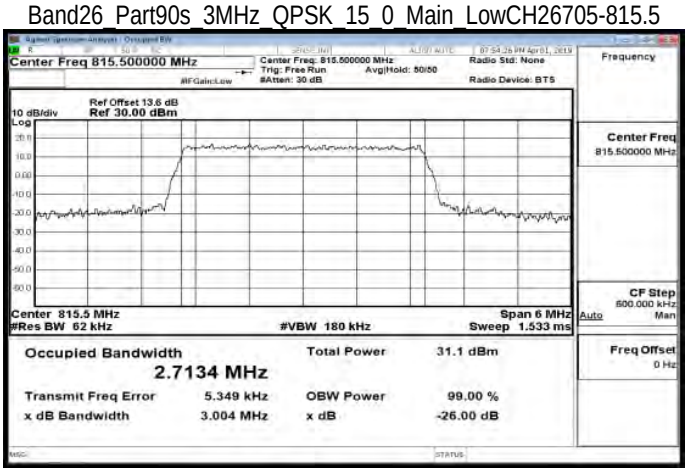
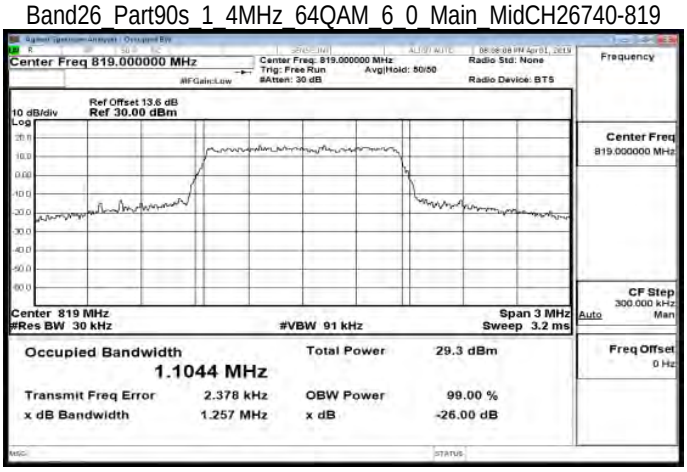
Band26_Part90s_1_4MHz_64QAM_6_0_Main_LowCH26697-814.7



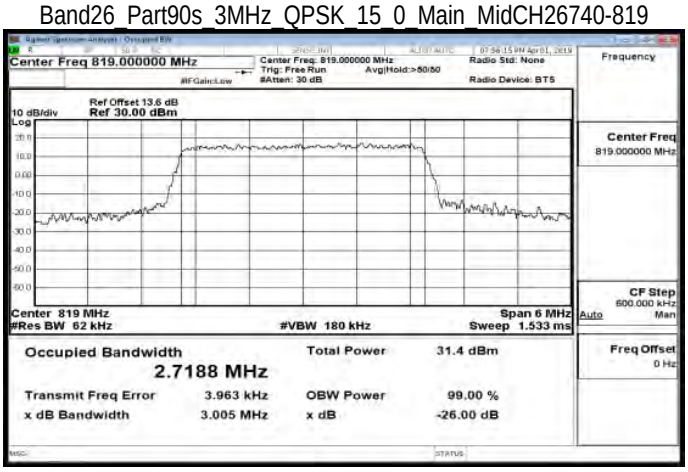
Band26_Part90s_3MHz_QPSK_15_0_Main_LowCH26705-815.5



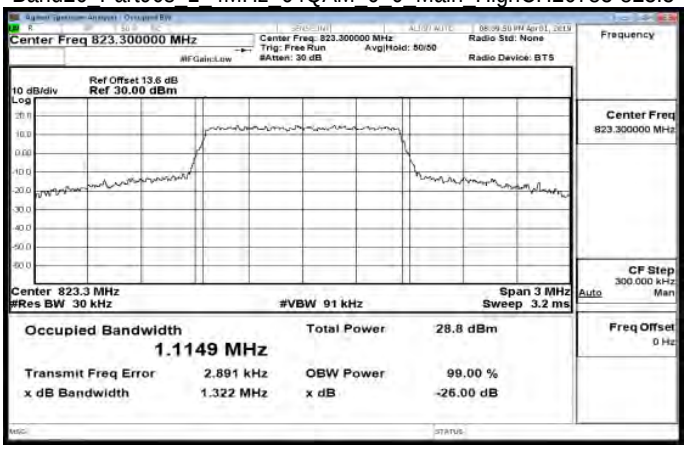
Band26_Part90s_1_4MHz_64QAM_6_0_Main_MidCH26740-819



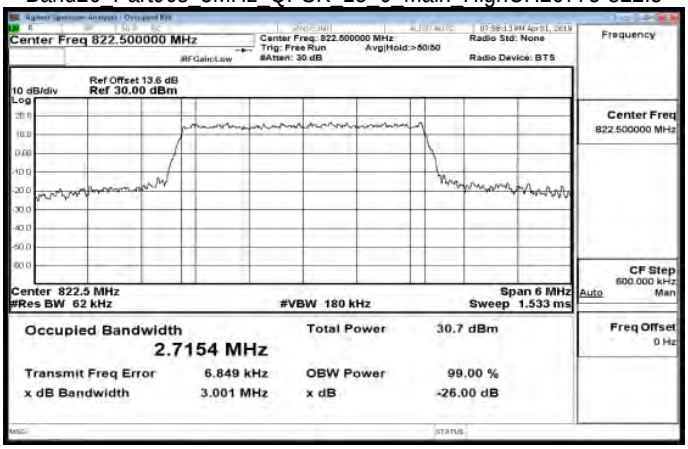
Band26_Part90s_3MHz_QPSK_15_0_Main_MidCH26740-819



Band26_Part90s_1_4MHz_64QAM_6_0_Main_HighCH26783-823.3



Band26_Part90s_3MHz_QPSK_15_0_Main_HighCH26775-822.5



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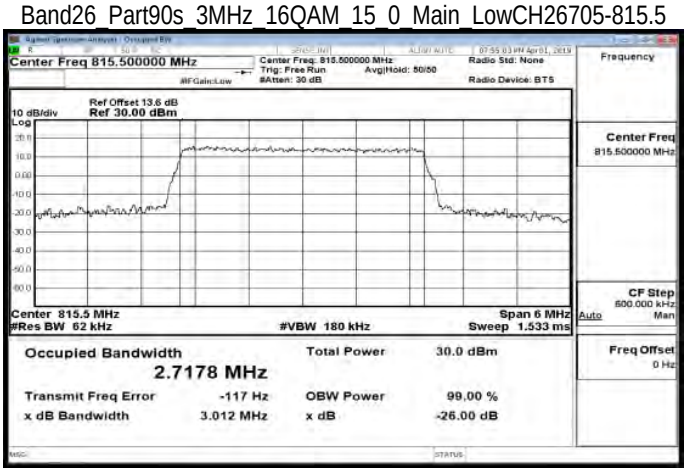
Band26_Part90s_3MHz_16QAM_15_0_Main_LowCH26705-815.5



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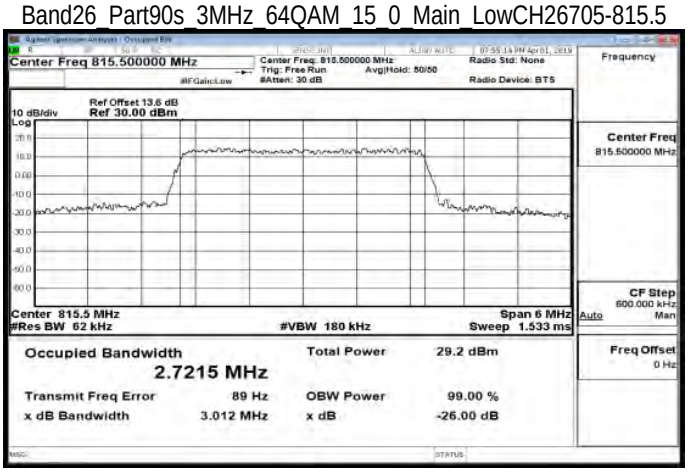
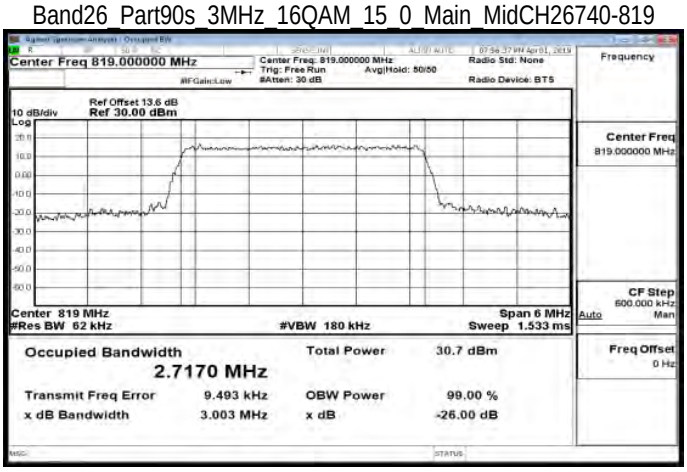
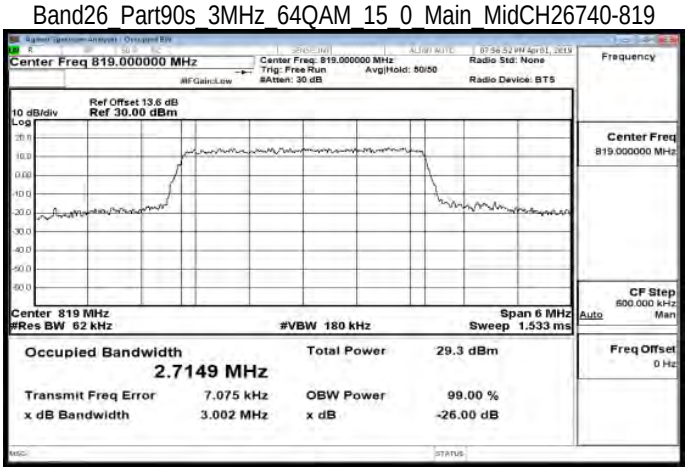


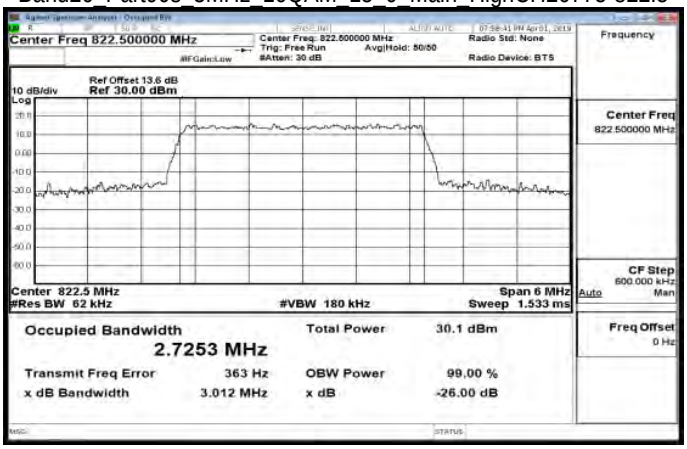
Band26_Part90s_3MHz_16QAM_15_0_Main_MidCH26740-819



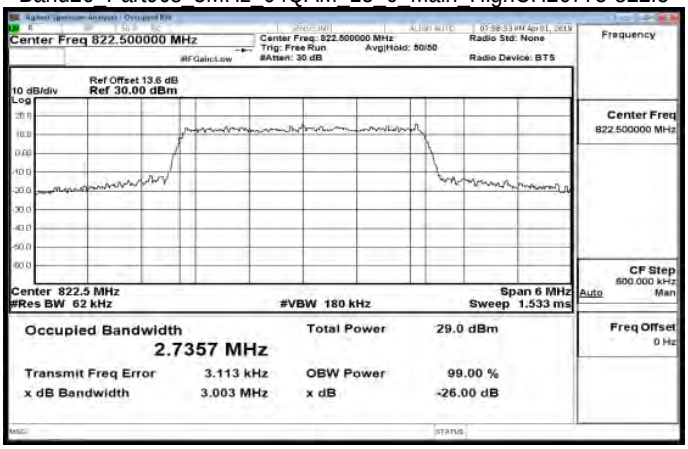
Band26_Part90s_3MHz_64QAM_15_0_Main_MidCH26740-819



Band26_Part90s_3MHz_16QAM_15_0_Main_HighCH26775-822.5



Band26_Part90s_3MHz_64QAM_15_0_Main_HighCH26775-822.5



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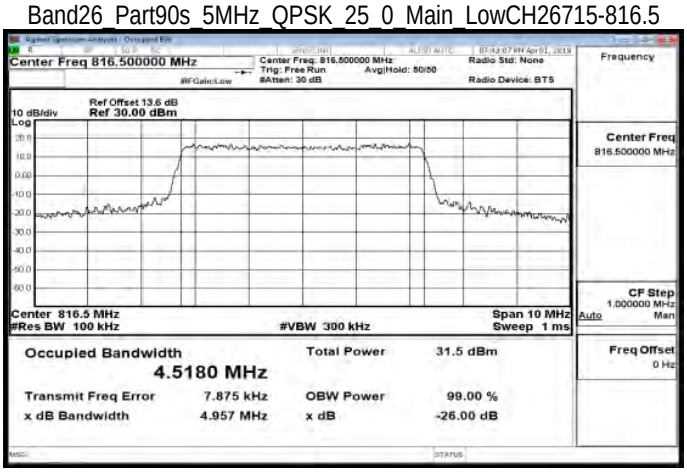
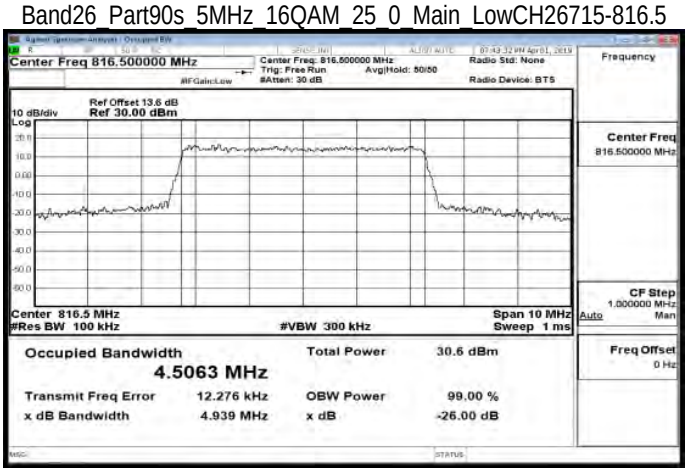
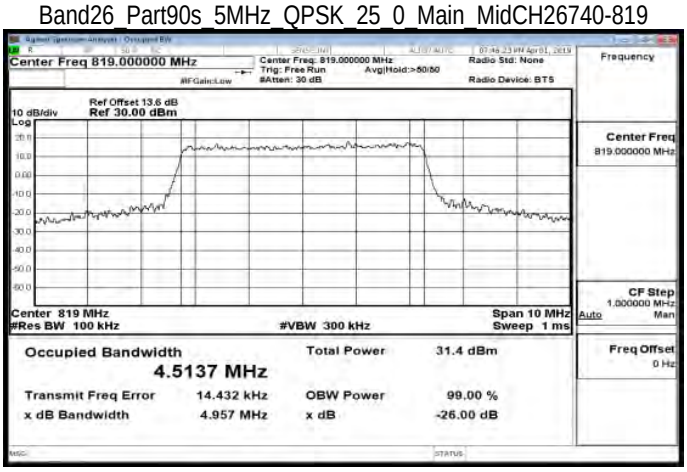
Band26_Part90s_5MHz_QPSK_25_0_Main_LowCH26715-816.5



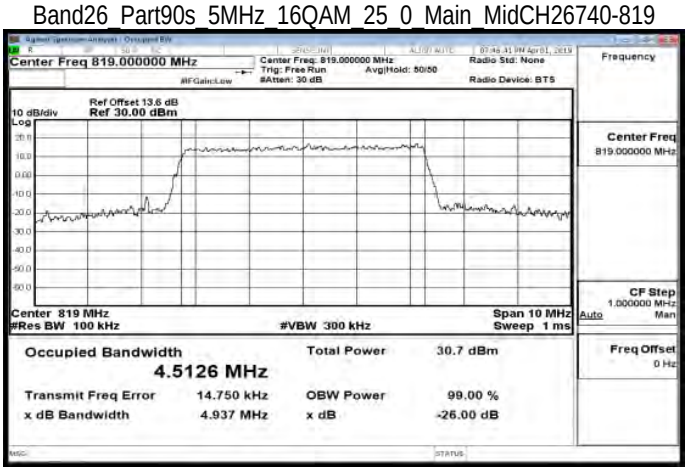
Band26_Part90s_5MHz_16QAM_25_0_Main_LowCH26715-816.5



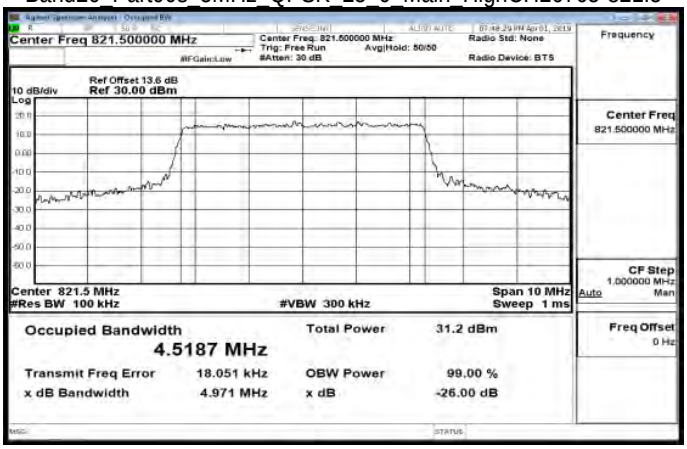
Band26_Part90s_5MHz_QPSK_25_0_Main_MidCH26740-819



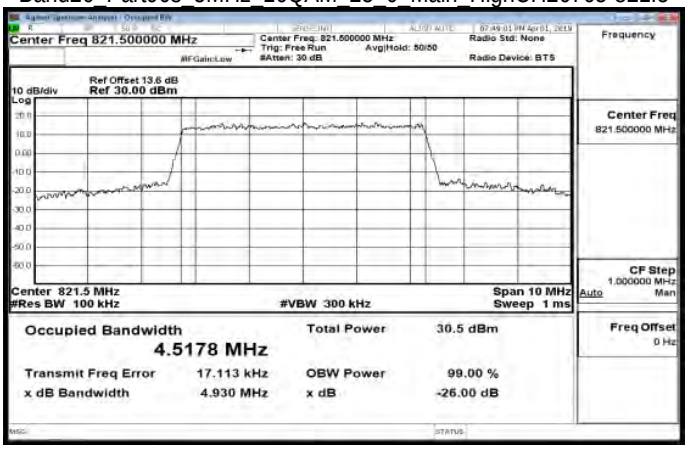
Band26_Part90s_5MHz_16QAM_25_0_Main_MidCH26740-819



Band26_Part90s_5MHz_QPSK_25_0_Main_HighCH26765-821.5



Band26_Part90s_5MHz_16QAM_25_0_Main_HighCH26765-821.5



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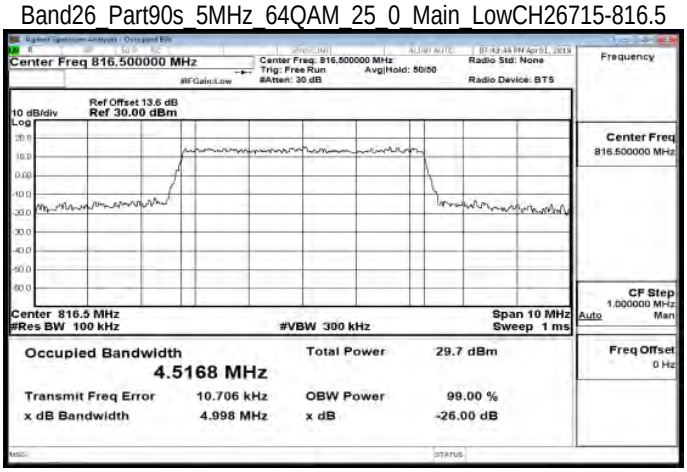
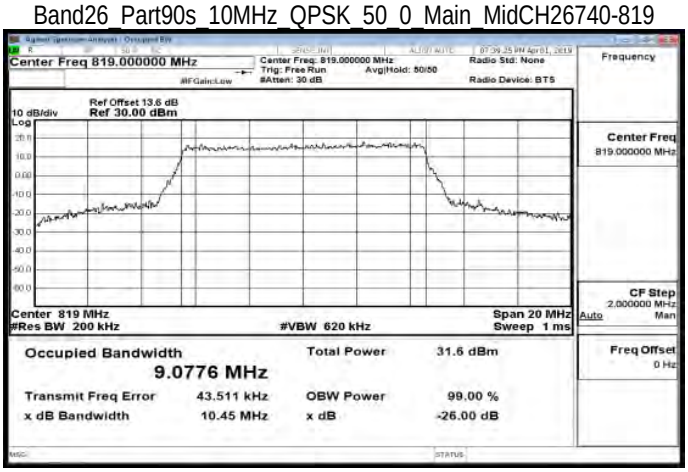
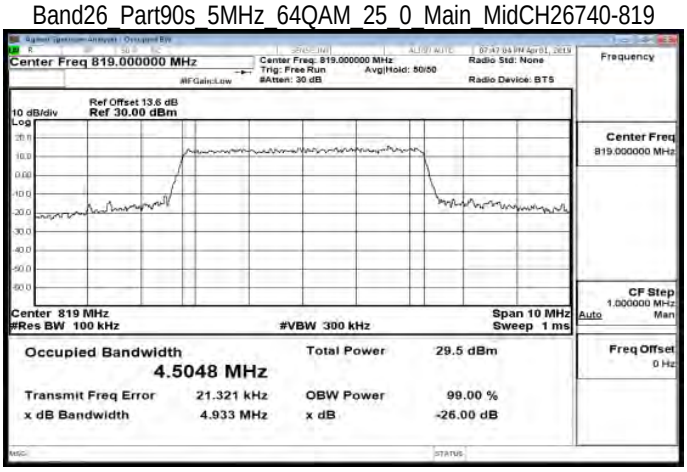
Band26_Part90s_5MHz_64QAM_25_0_Main_LowCH26715-816.5



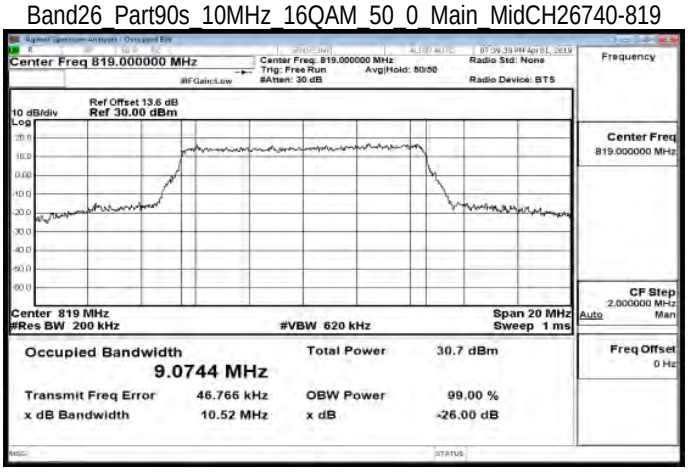
Band26_Part90s_10MHz_QPSK_50_0_Main_MidCH26740-819



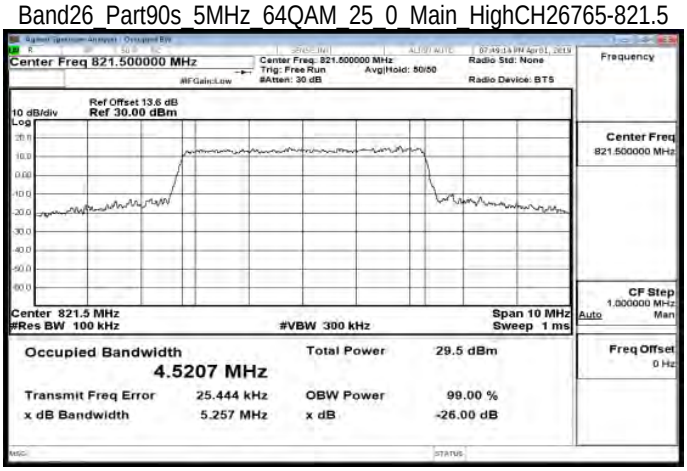
Band26_Part90s_5MHz_64QAM_25_0_Main_MidCH26740-819



Band26_Part90s_10MHz_16QAM_50_0_Main_MidCH26740-819



Band26_Part90s_5MHz_64QAM_25_0_Main_HighCH26765-821.5



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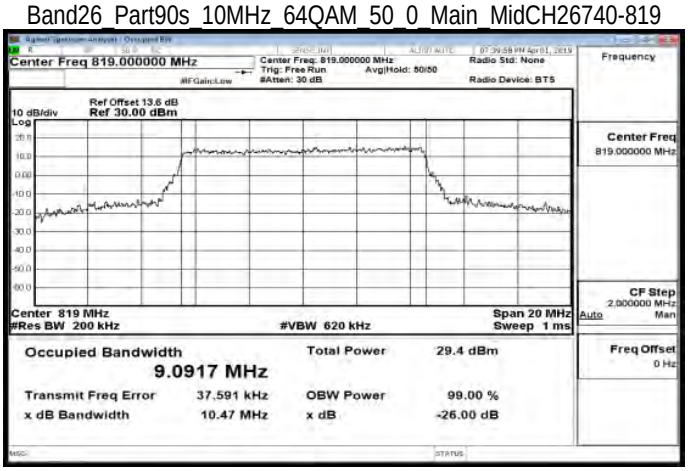

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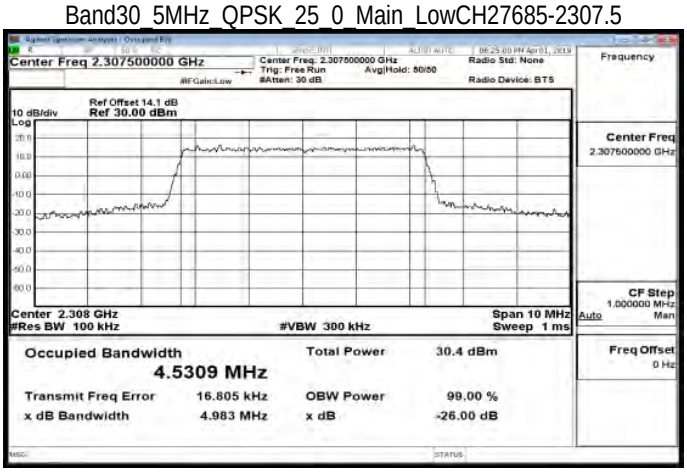
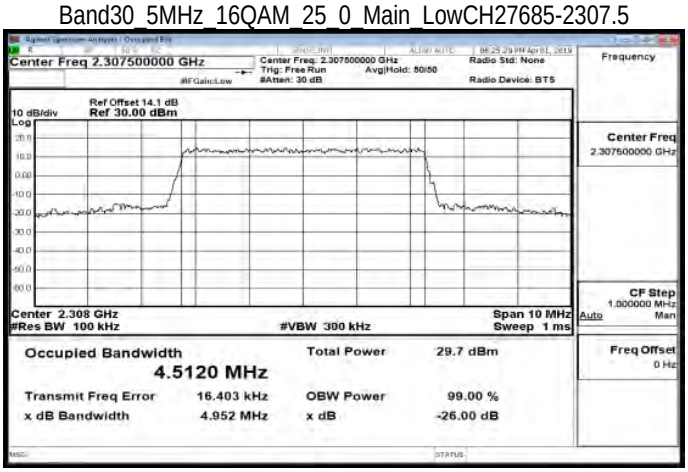
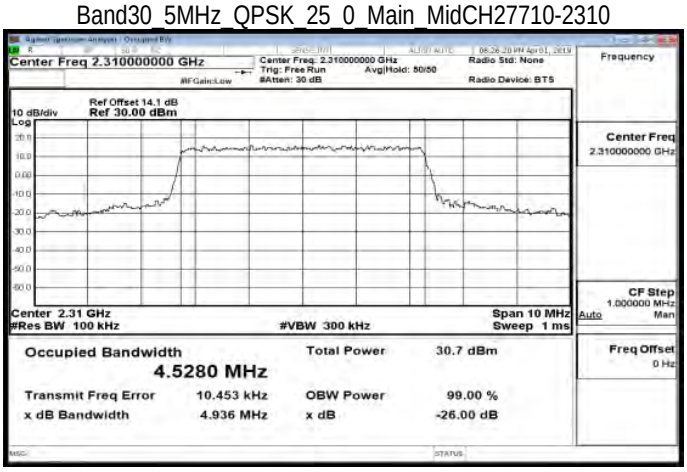
Band30_5MHz_QPSK_25_0_Main_LowCH27685-2307.5



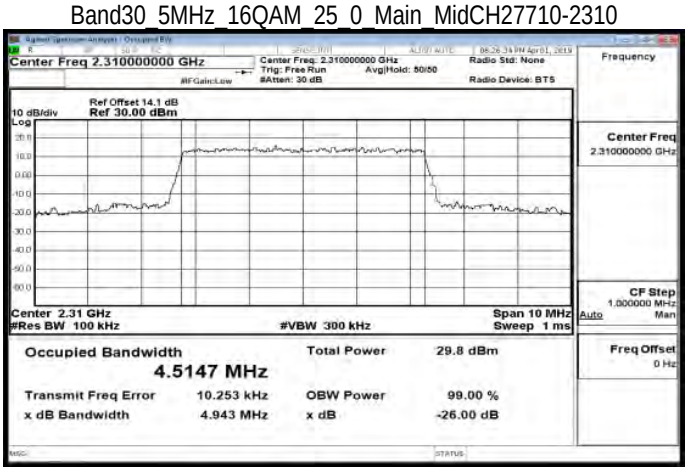
Band30_5MHz_16QAM_25_0_Main_LowCH27685-2307.5



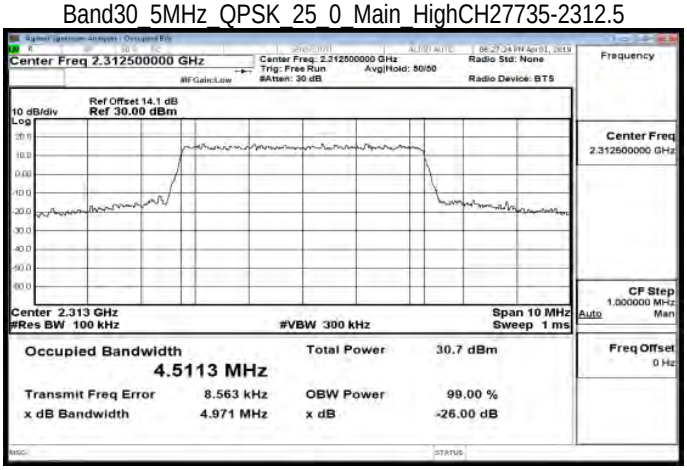
Band30_5MHz_QPSK_25_0_Main_MidCH27710-2310



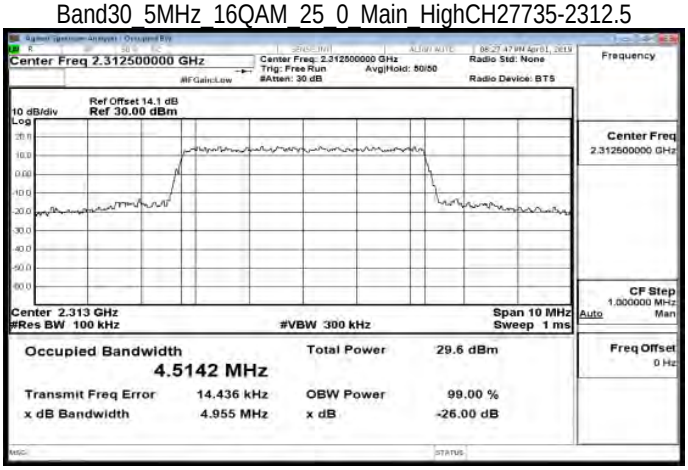
Band30_5MHz_16QAM_25_0_Main_MidCH27710-2310



Band30_5MHz_QPSK_25_0_Main_HighCH27735-2312.5



Band30_5MHz_16QAM_25_0_Main_HighCH27735-2312.5



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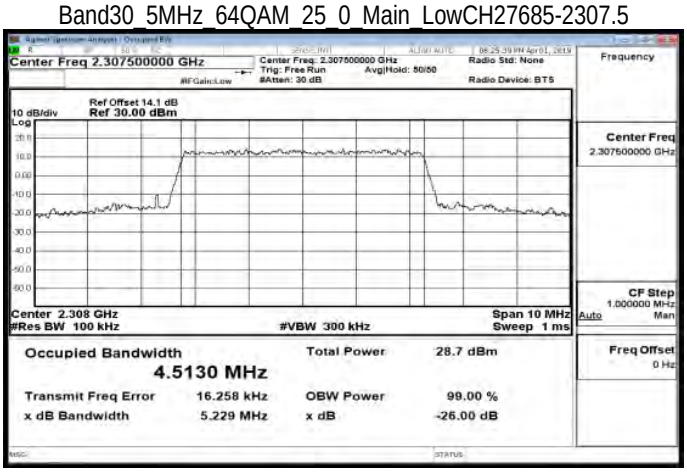
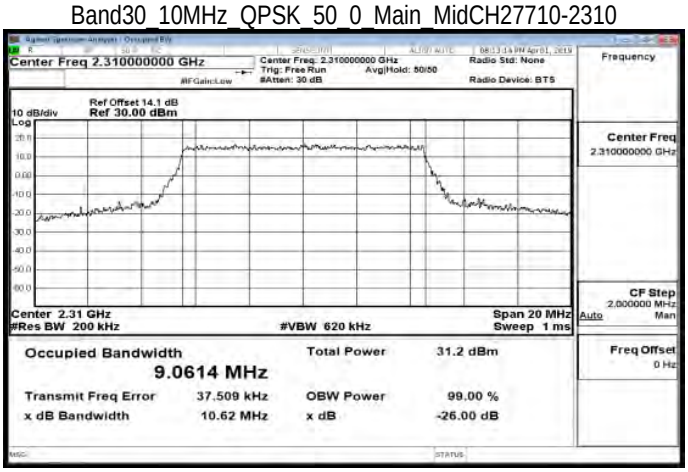
Band30_5MHz_64QAM_25_0_Main_LowCH27685-2307.5



Band30_10MHz_QPSK_50_0_Main_MidCH27710-2310



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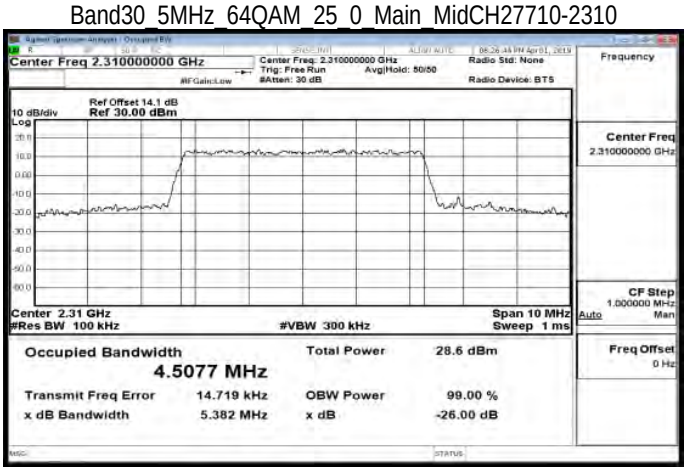
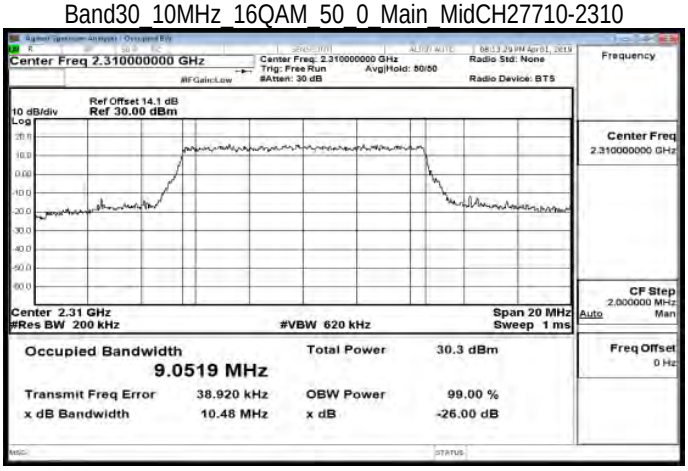
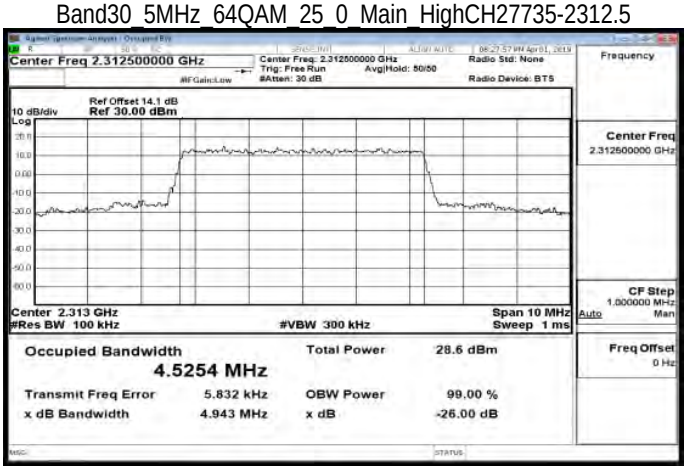


Band30_10MHz_16QAM_50_0_Main_MidCH27710-2310



Band30_5MHz_64QAM_25_0_Main_HighCH27735-2312.5



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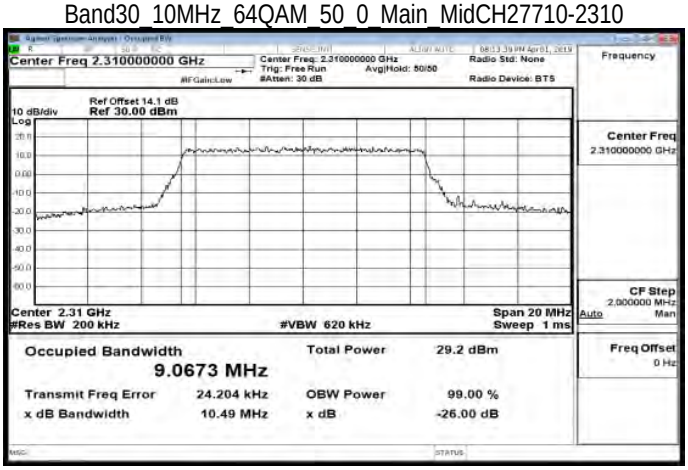

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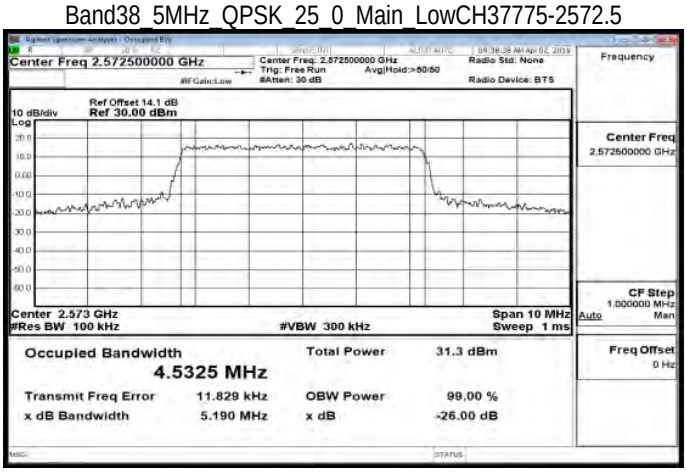
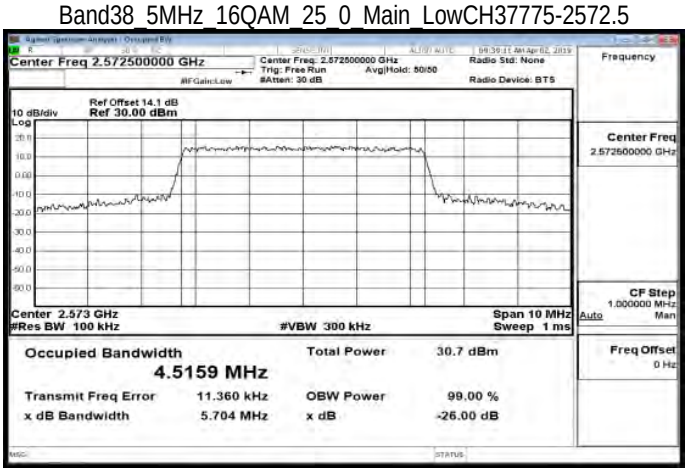
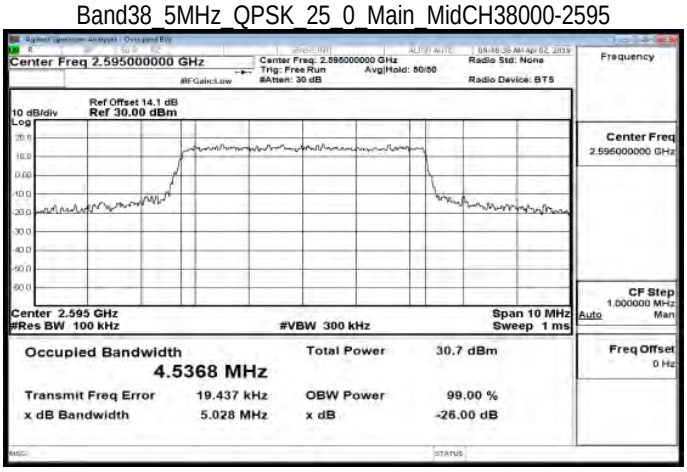
Band38_5MHz_QPSK_25_0_Main_LowCH37775-2572.5



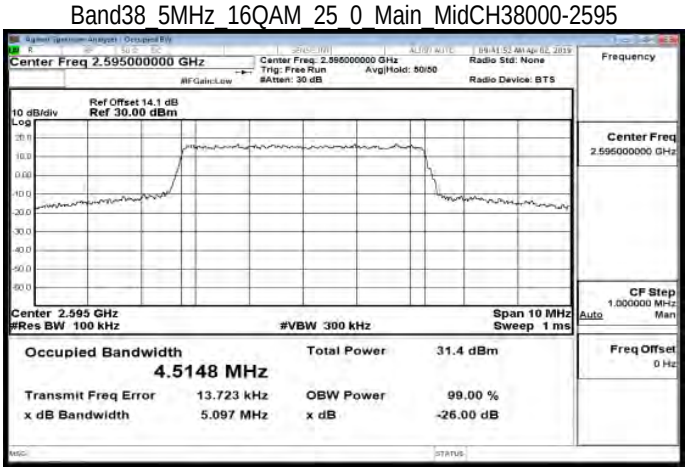
Band38_5MHz_16QAM_25_0_Main_LowCH37775-2572.5



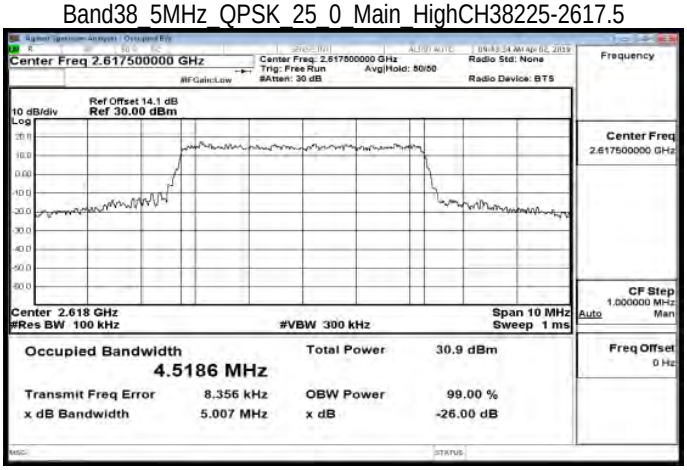
Band38_5MHz_QPSK_25_0_Main_MidCH38000-2595



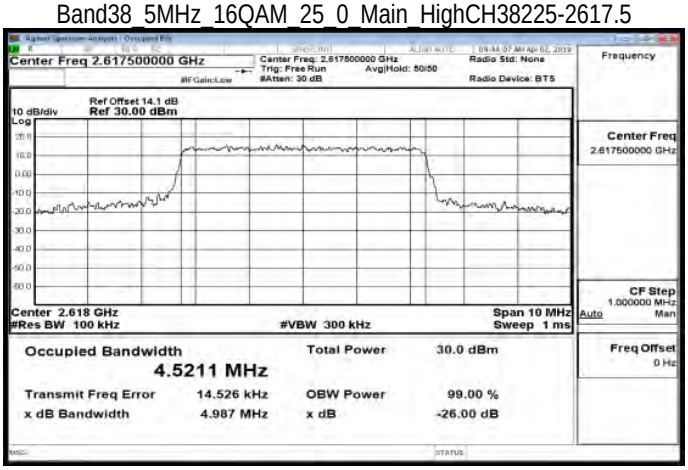
Band38_5MHz_16QAM_25_0_Main_MidCH38000-2595



Band38_5MHz_QPSK_25_0_Main_HighCH38225-2617.5



Band38_5MHz_16QAM_25_0_Main_HighCH38225-2617.5



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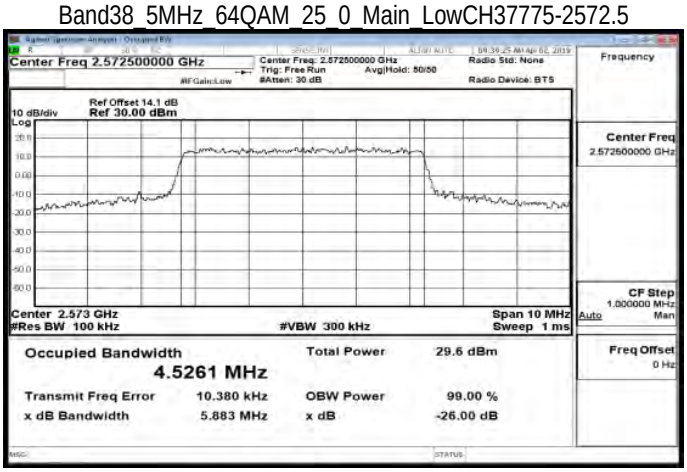
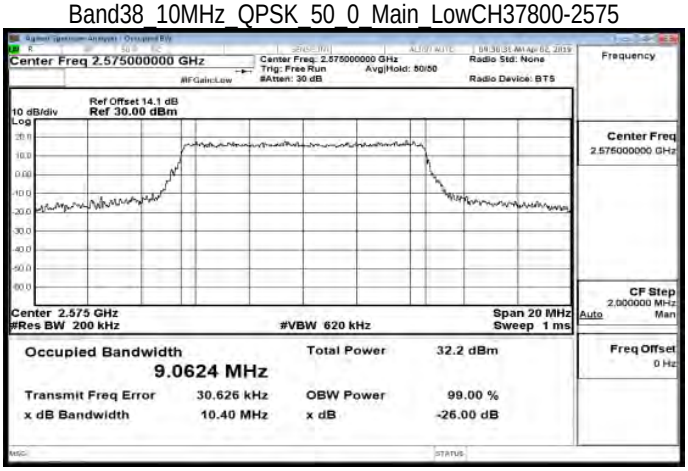
Band38_5MHz_64QAM_25_0_Main_LowCH37775-2572.5



Band38_10MHz_QPSK_50_0_Main_LowCH37800-2575



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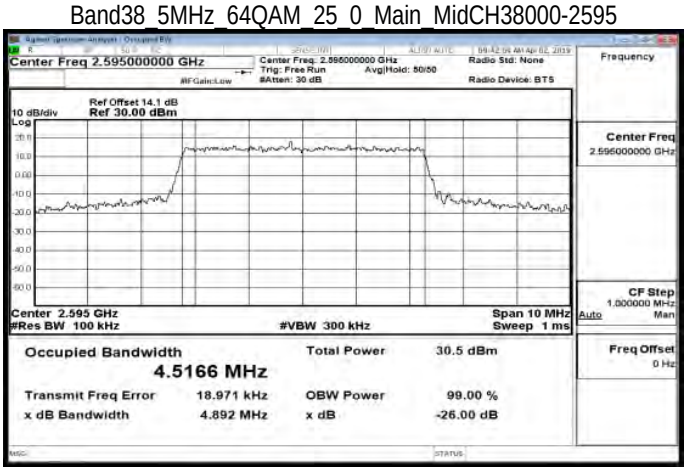
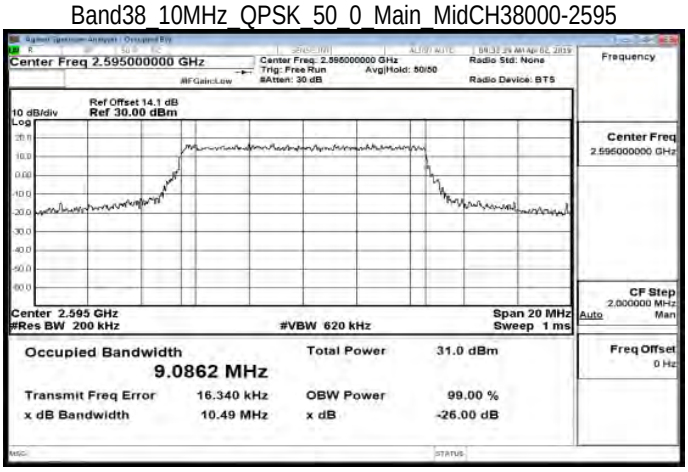
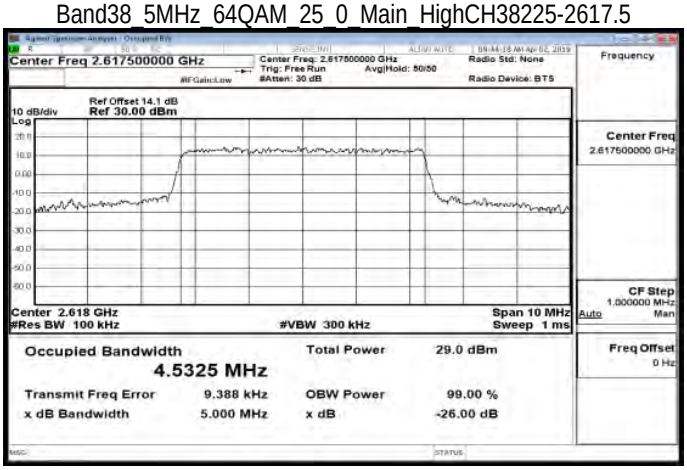


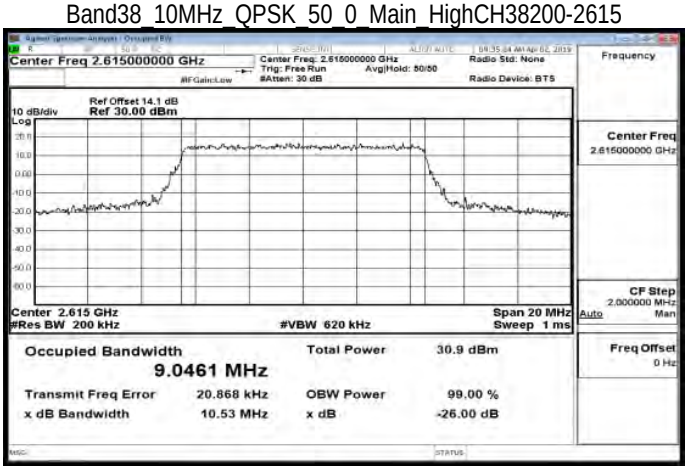
Band38_10MHz_QPSK_50_0_Main_MidCH38000-2595



Band38_5MHz_64QAM_25_0_Main_HighCH38225-2617.5



Band38_10MHz_QPSK_50_0_Main_HighCH38200-2615



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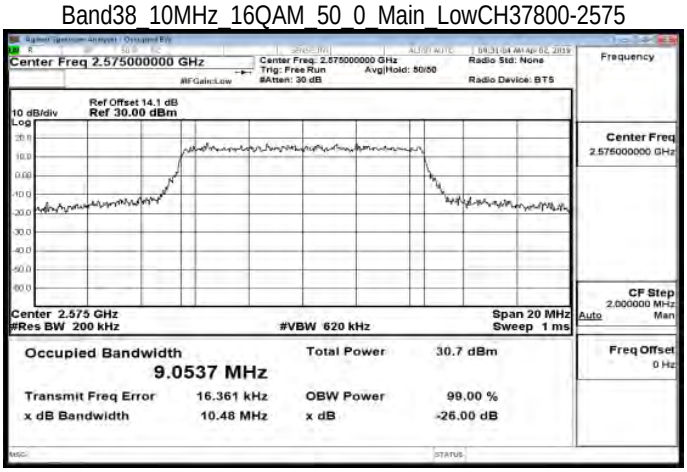
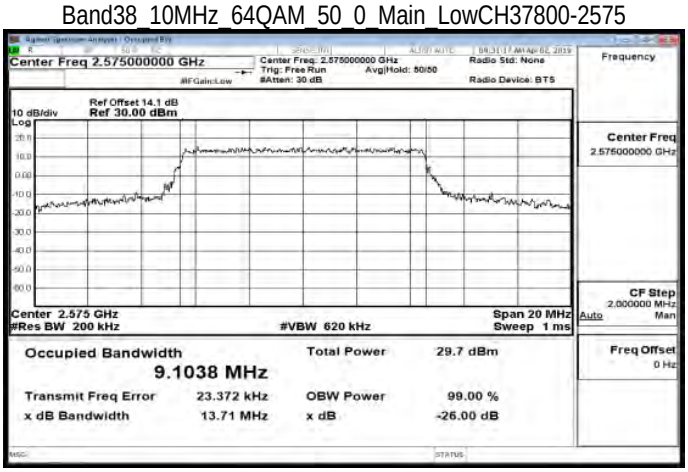
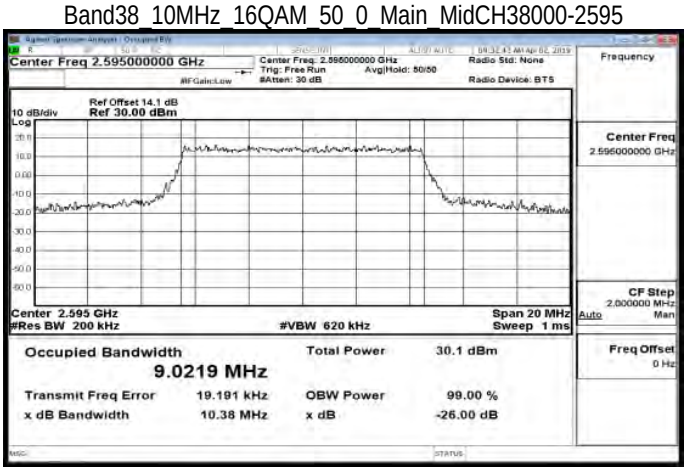
Band38_10MHz_16QAM_50_0_Main_LowCH37800-2575



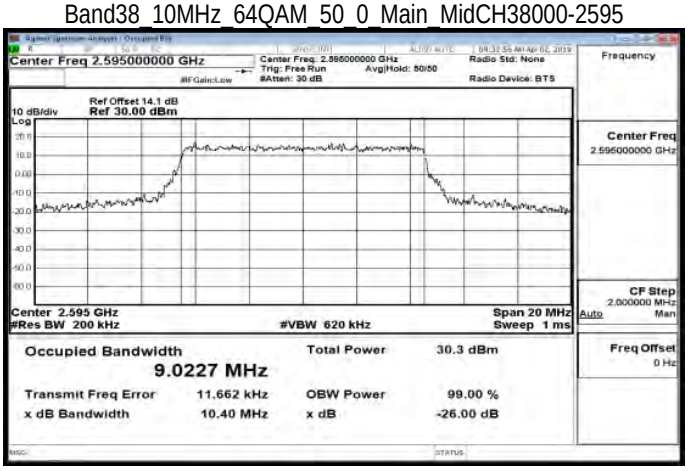
Band38_10MHz_64QAM_50_0_Main_LowCH37800-2575



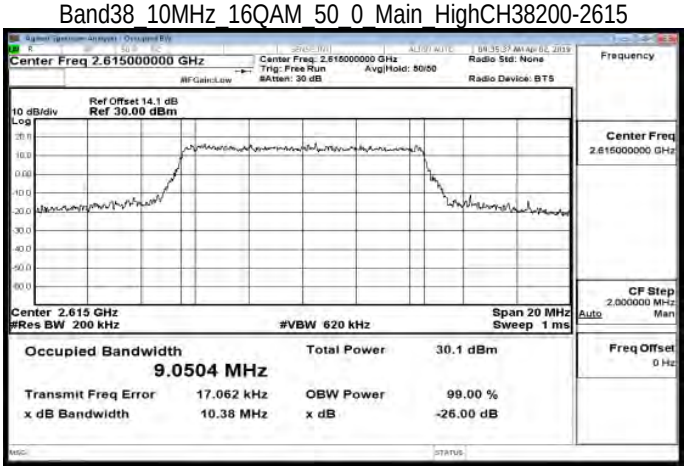
Band38_10MHz_16QAM_50_0_Main_MidCH38000-2595



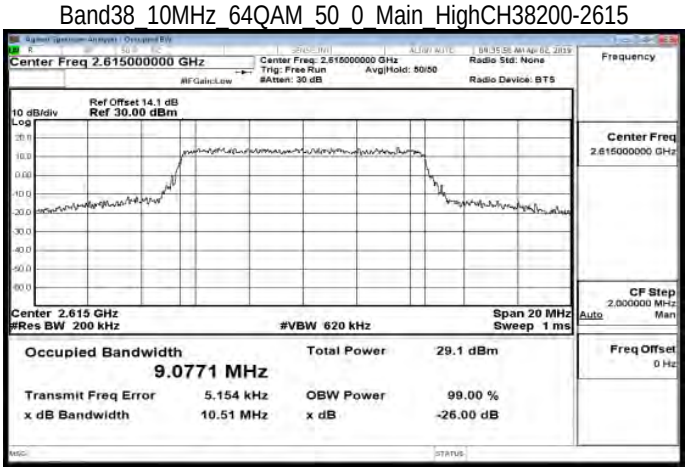
Band38_10MHz_64QAM_50_0_Main_MidCH38000-2595



Band38_10MHz_16QAM_50_0_Main_HighCH38200-2615



Band38_10MHz_64QAM_50_0_Main_HighCH38200-2615



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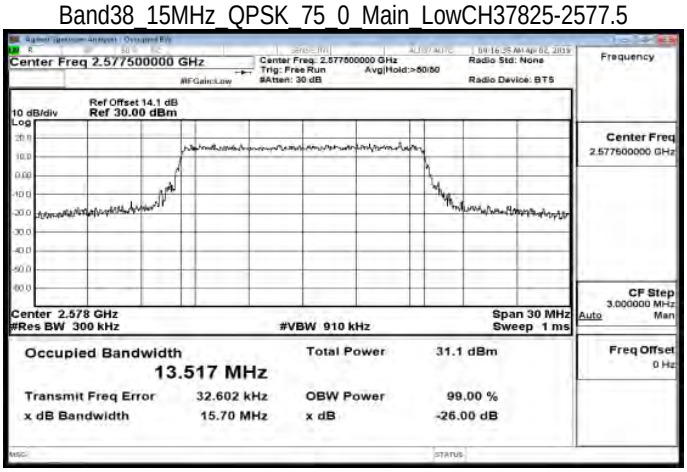
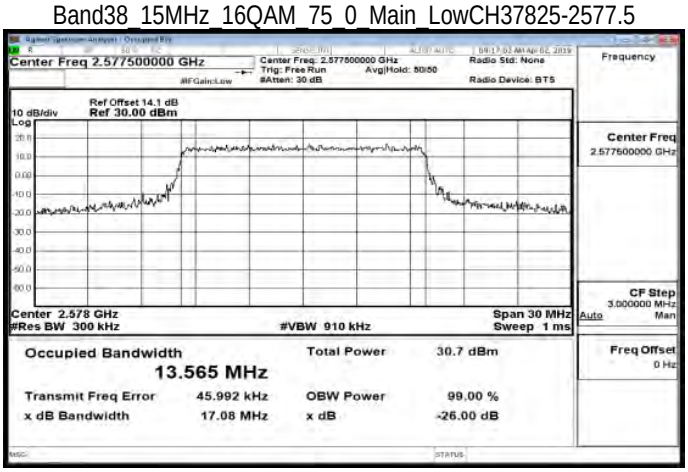
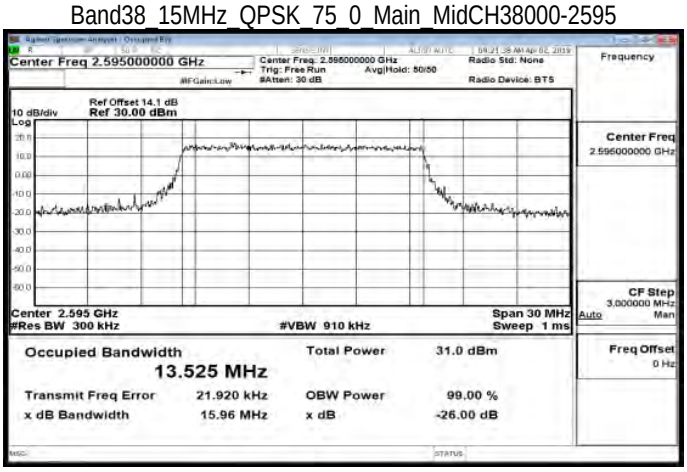
Band38_15MHz_QPSK_75_0_Main_LowCH37825-2577.5



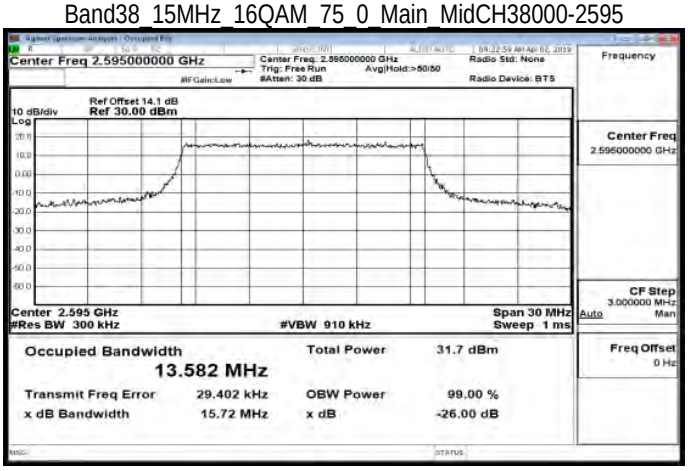
Band38_15MHz_16QAM_75_0_Main_LowCH37825-2577.5



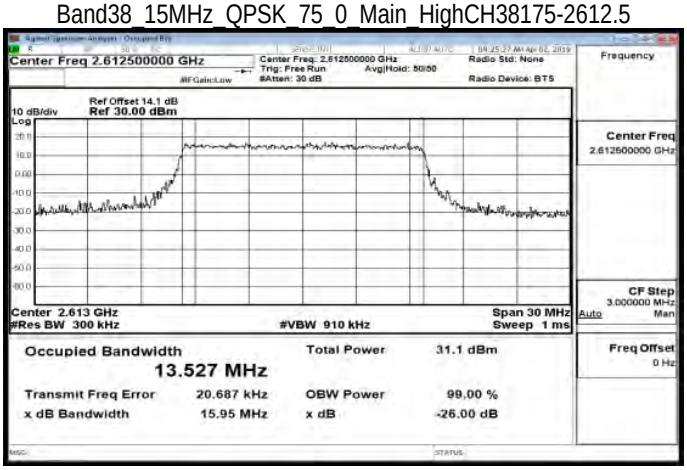
Band38_15MHz_QPSK_75_0_Main_MidCH38000-2595



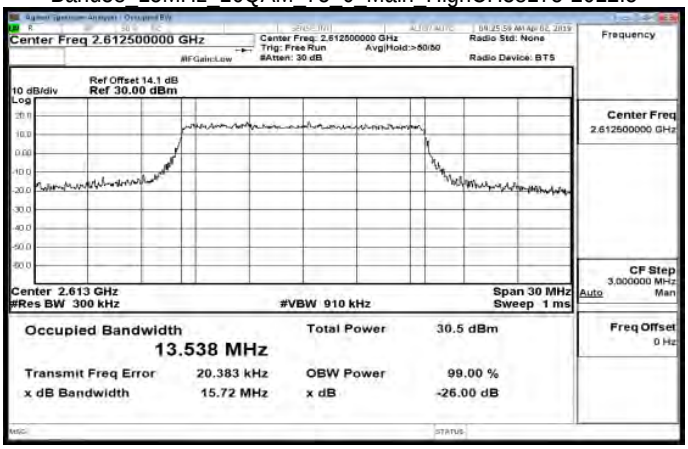
Band38_15MHz_16QAM_75_0_Main_MidCH38000-2595



Band38_15MHz_QPSK_75_0_Main_HighCH38175-2612.5



Band38_15MHz_16QAM_75_0_Main_HighCH38175-2612.5



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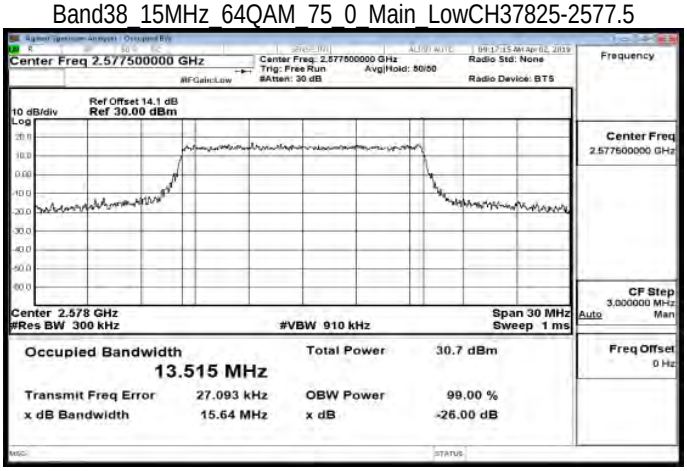
Band38_15MHz_64QAM_75_0_Main_LowCH37825-2577.5



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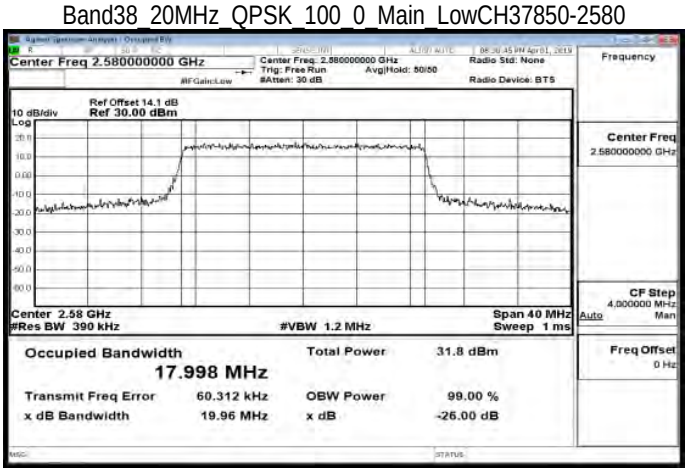
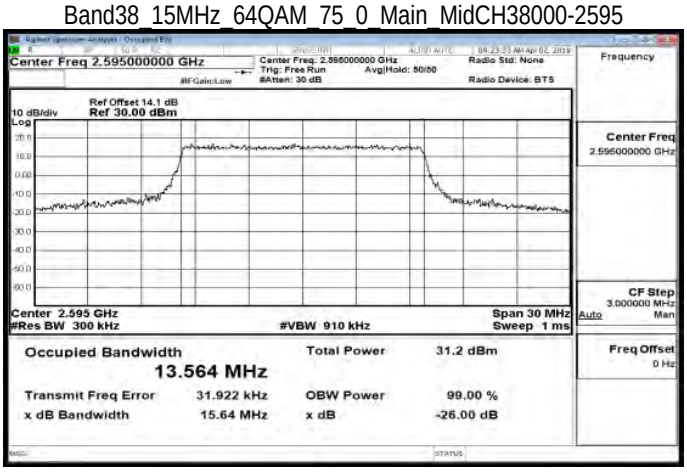
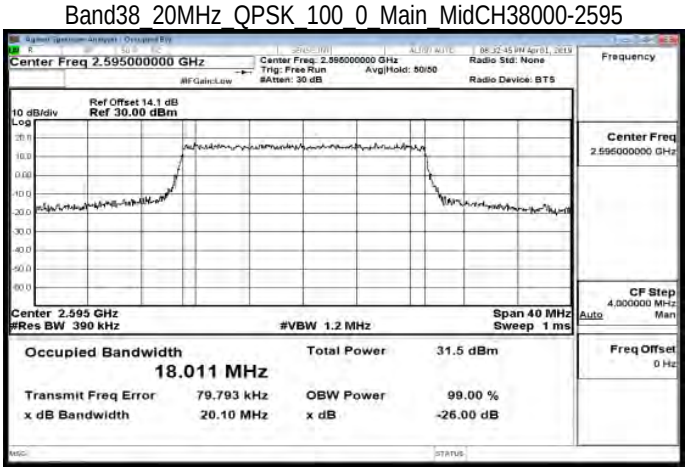


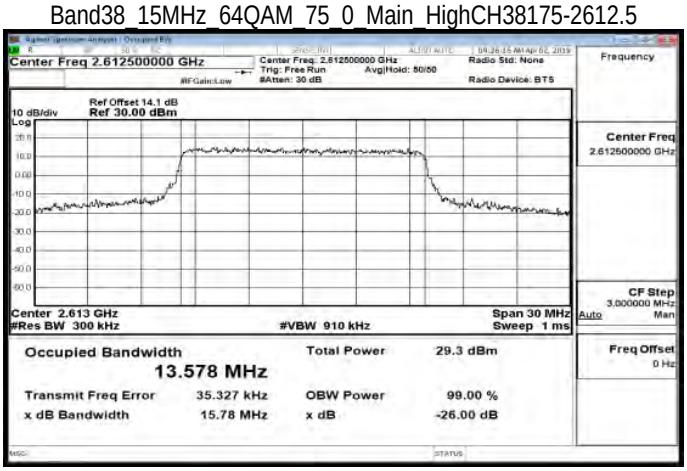
Band38_15MHz_64QAM_75_0_Main_MidCH38000-2595



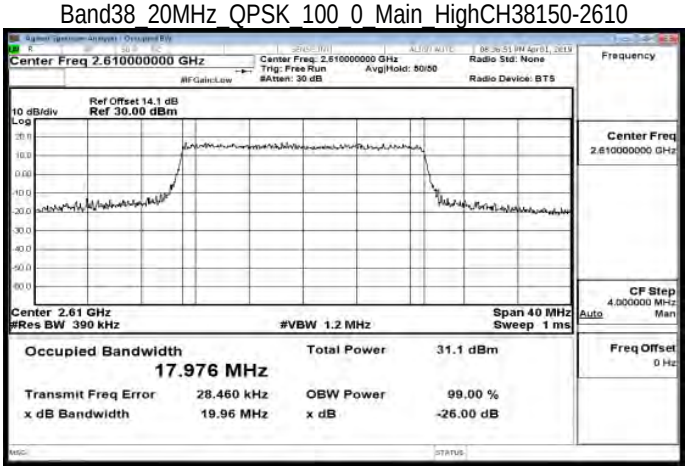
Band38_20MHz_QPSK_100_0_Main_MidCH38000-2595



Band38_15MHz_64QAM_75_0_Main_HighCH38175-2612.5



Band38_20MHz_QPSK_100_0_Main_HighCH38150-2610



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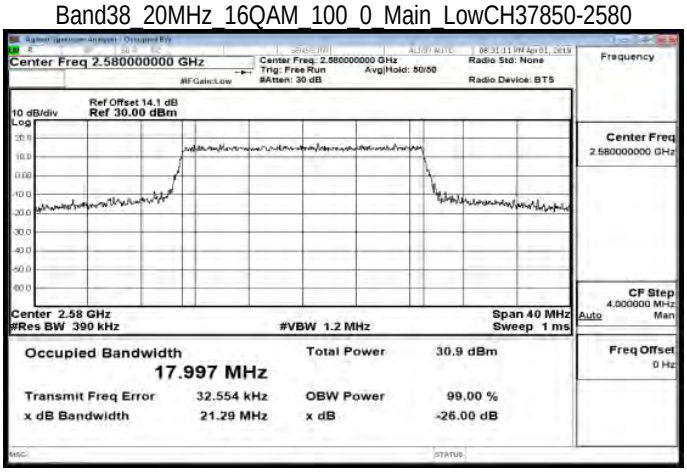
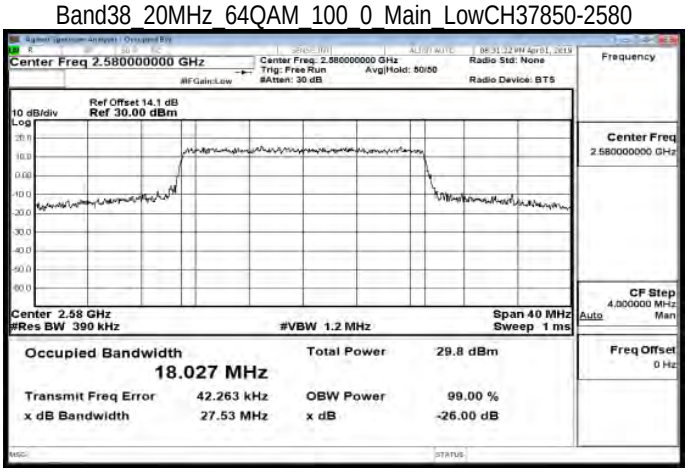
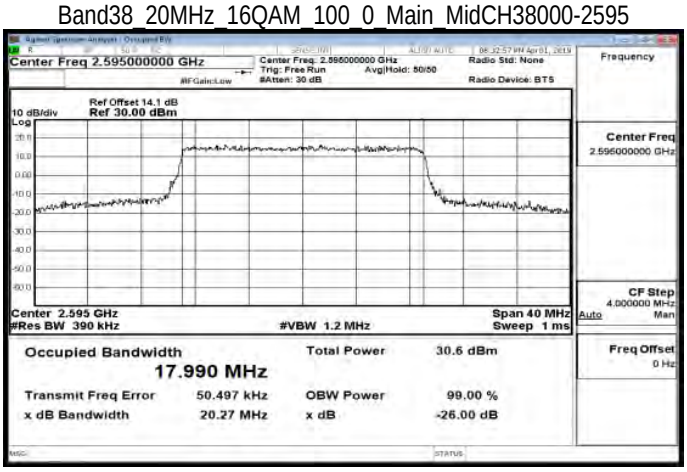
Band38_20MHz_16QAM_100_0_Main_LowCH37850-2580



Band38_20MHz_64QAM_100_0_Main_LowCH37850-2580



Band38_20MHz_16QAM_100_0_Main_MidCH38000-2595



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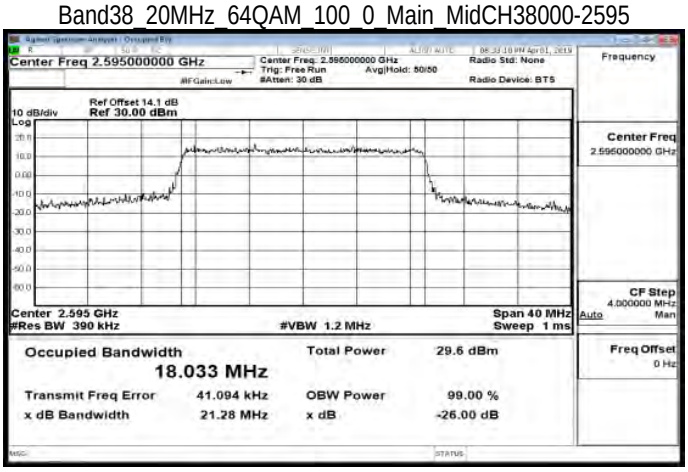
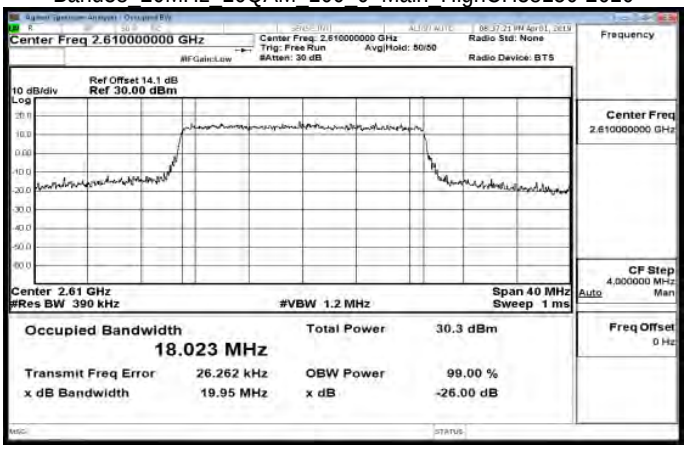


Band38_20MHz_16QAM_100_0_Main_HighCH38150-2610



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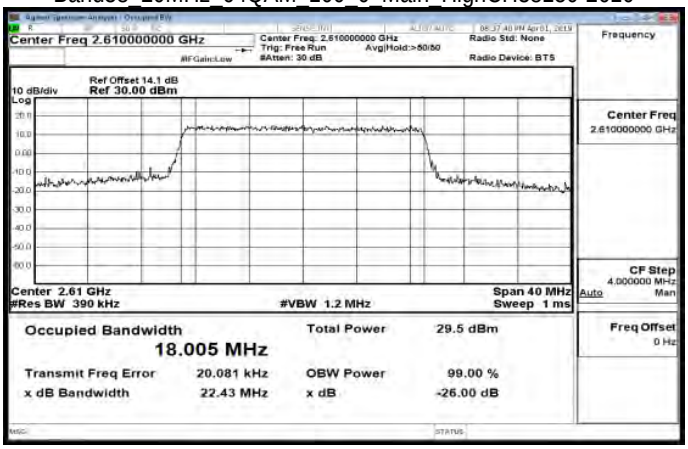

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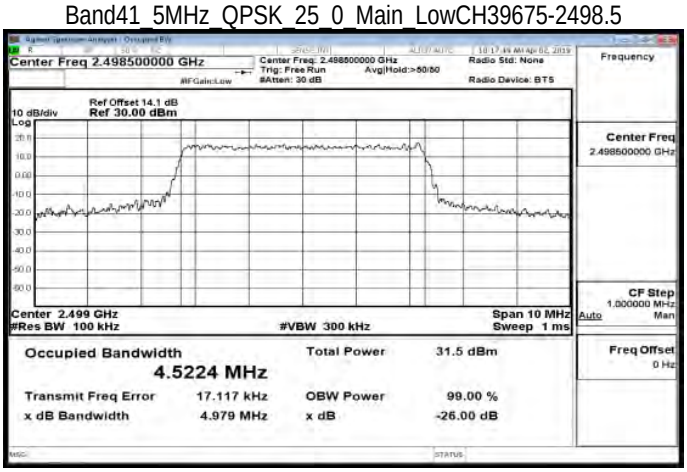
Band41_5MHz_QPSK_25_0_Main_LowCH39675-2498.5



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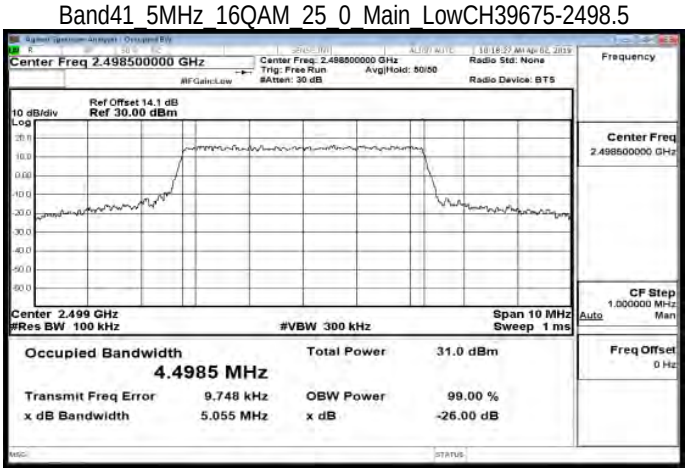
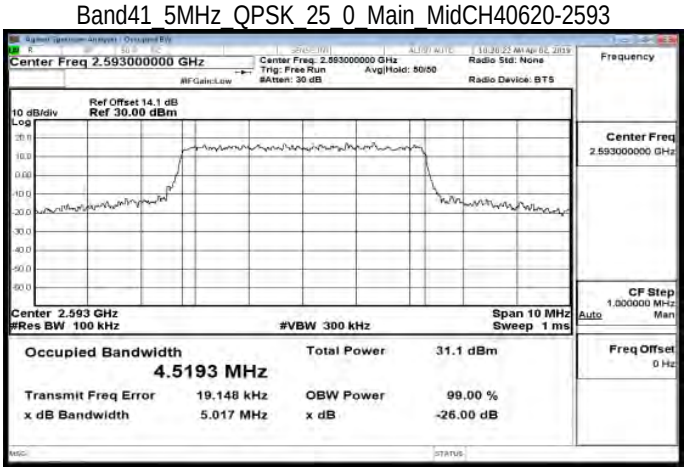
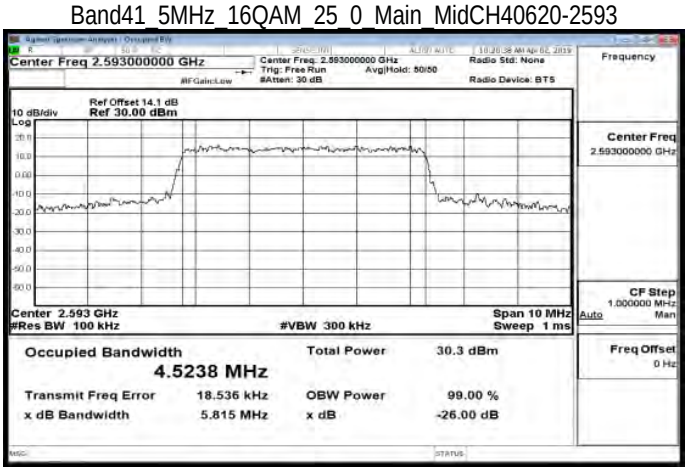


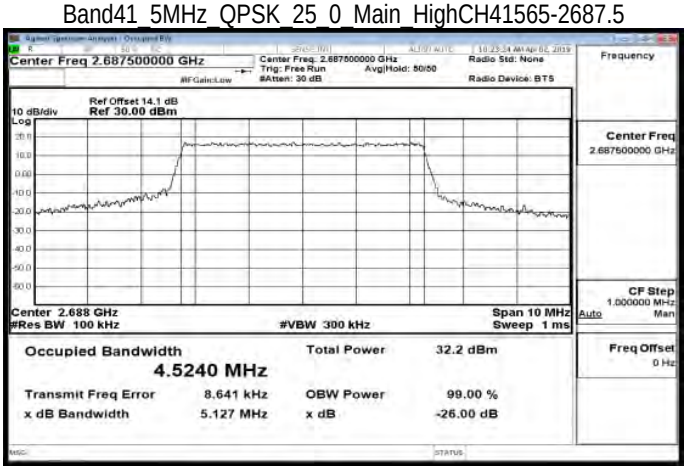
Band41_5MHz_QPSK_25_0_Main_MidCH40620-2593



Band41_5MHz_16QAM_25_0_Main_MidCH40620-2593



Band41_5MHz_QPSK_25_0_Main_HighCH41565-2687.5



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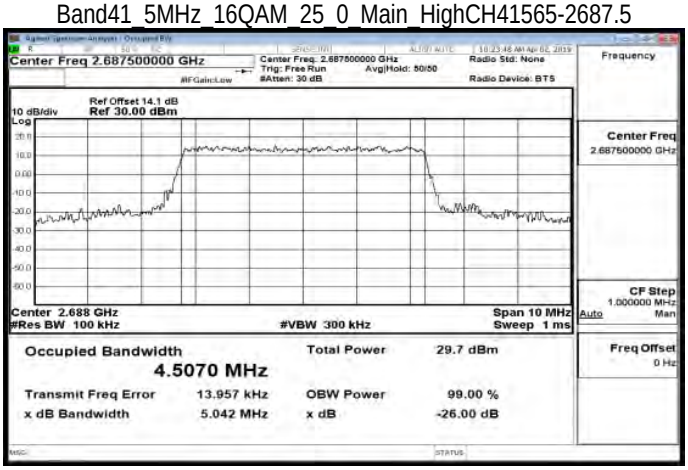

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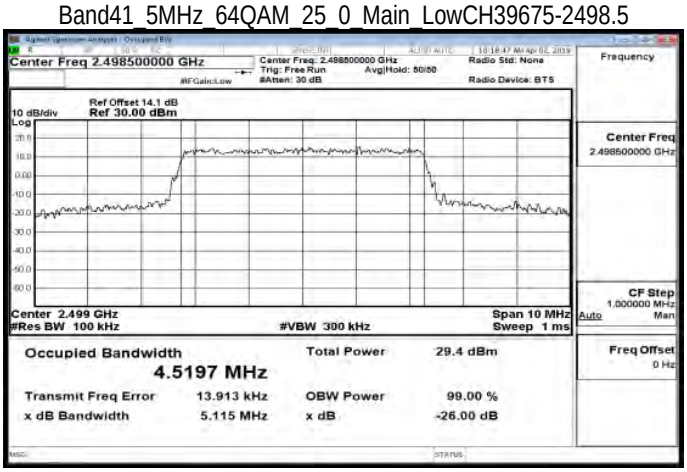
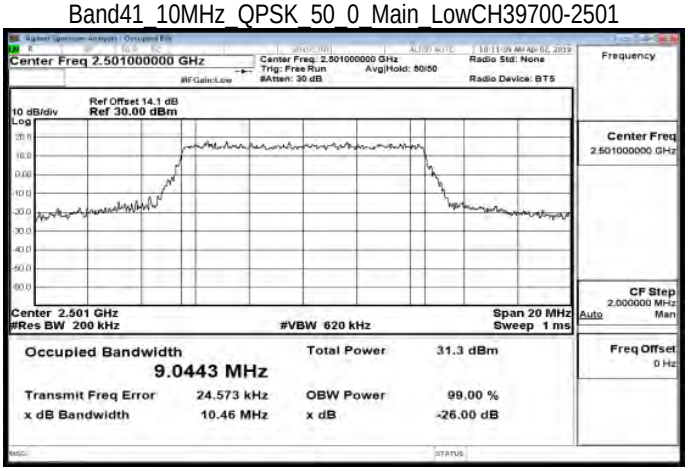
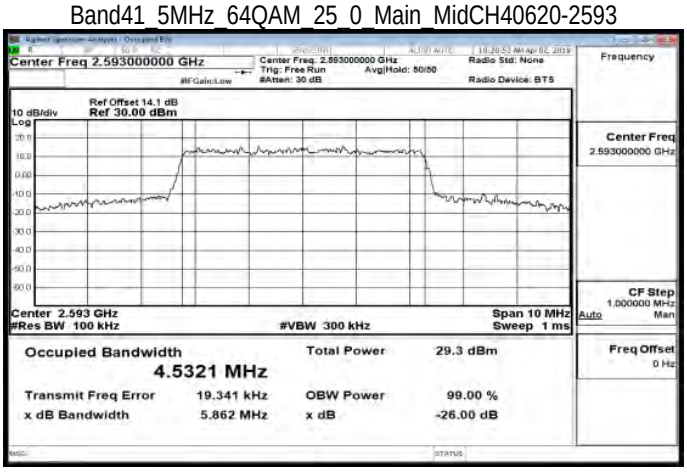
Band41_5MHz_64QAM_25_0_Main_LowCH39675-2498.5



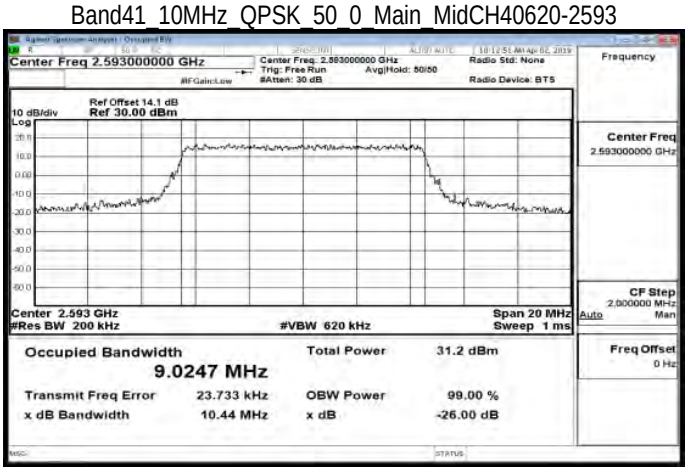
Band41_10MHz_QPSK_50_0_Main_LowCH39700-2501



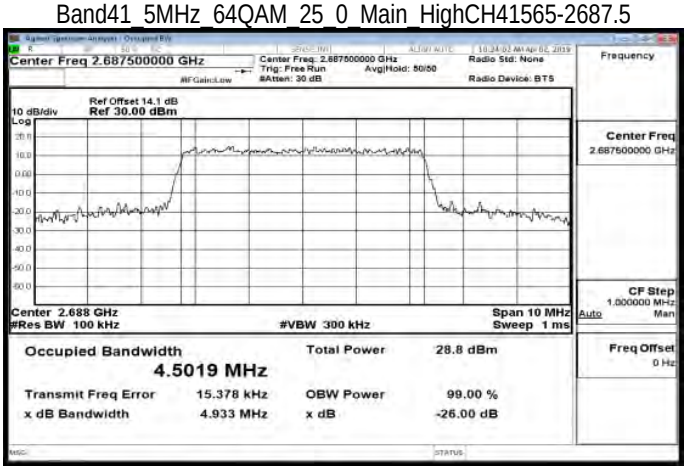
Band41_5MHz_64QAM_25_0_Main_MidCH40620-2593



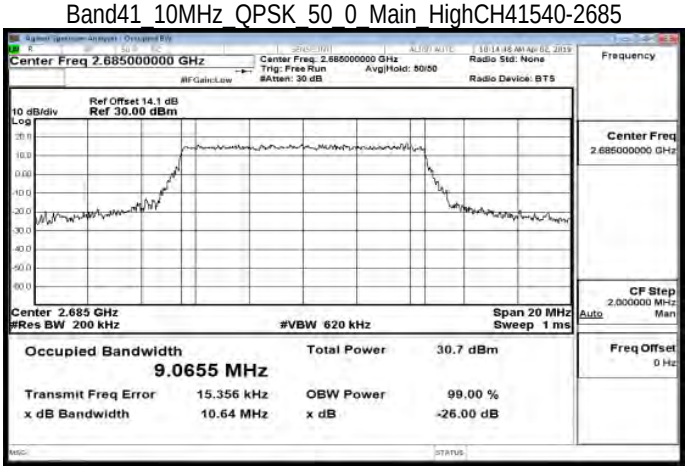
Band41_10MHz_QPSK_50_0_Main_MidCH40620-2593



Band41_5MHz_64QAM_25_0_Main_HighCH41565-2687.5



Band41_10MHz_QPSK_50_0_Main_HighCH41540-2685



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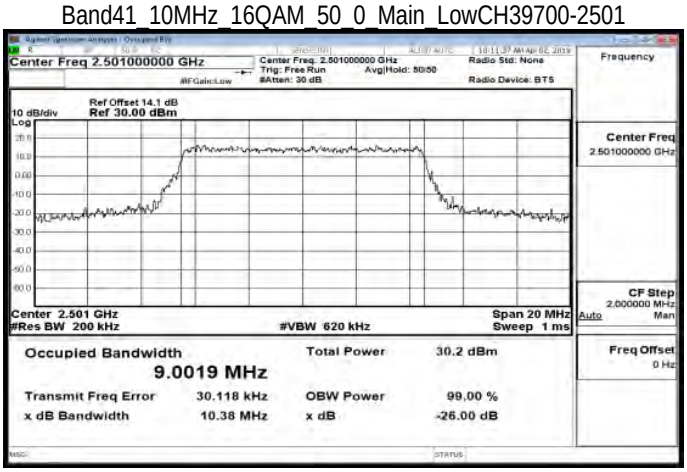
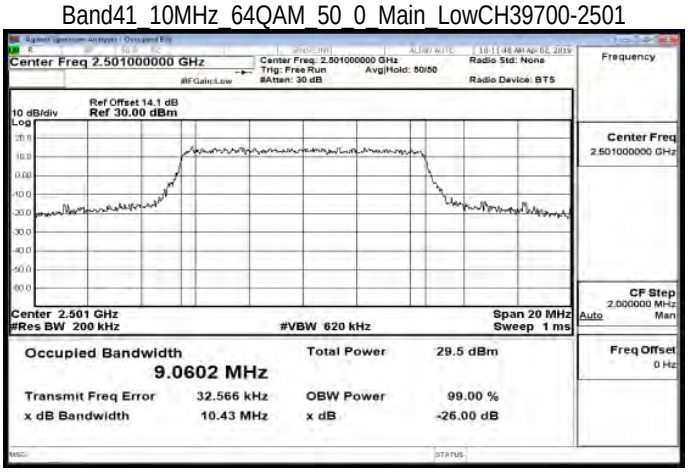
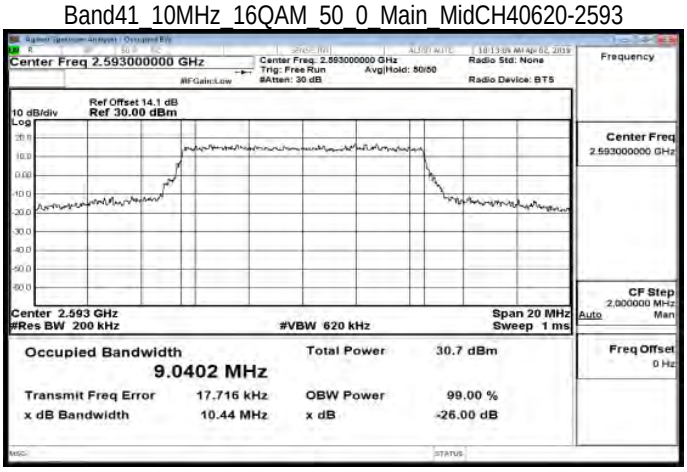
Band41_10MHz_16QAM_50_0_Main_LowCH39700-2501



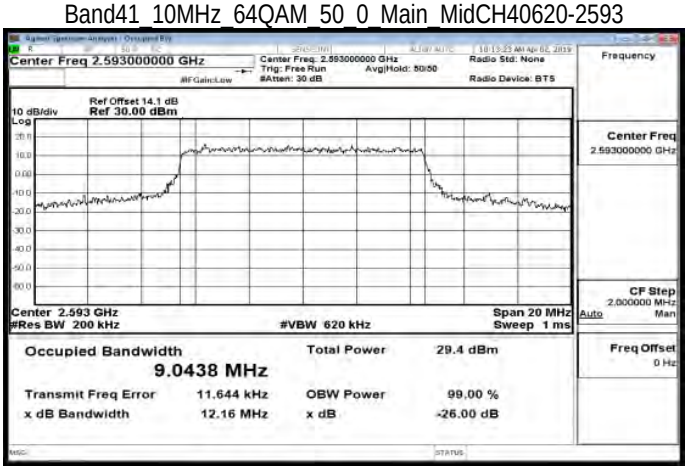
Band41_10MHz_64QAM_50_0_Main_LowCH39700-2501



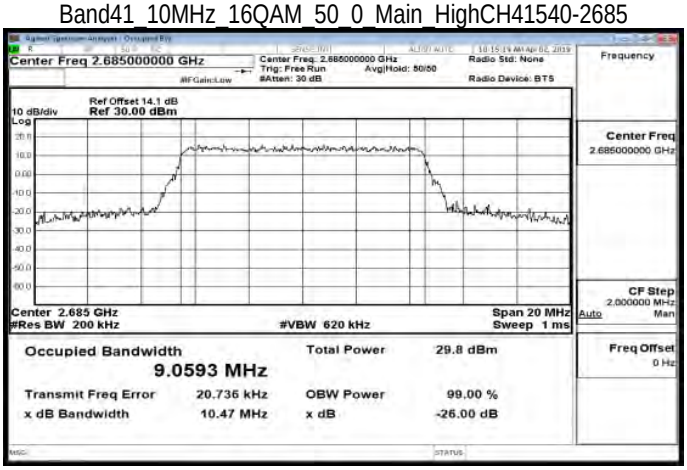
Band41_10MHz_16QAM_50_0_Main_MidCH40620-2593



Band41_10MHz_64QAM_50_0_Main_MidCH40620-2593



Band41_10MHz_16QAM_50_0_Main_HighCH41540-2685



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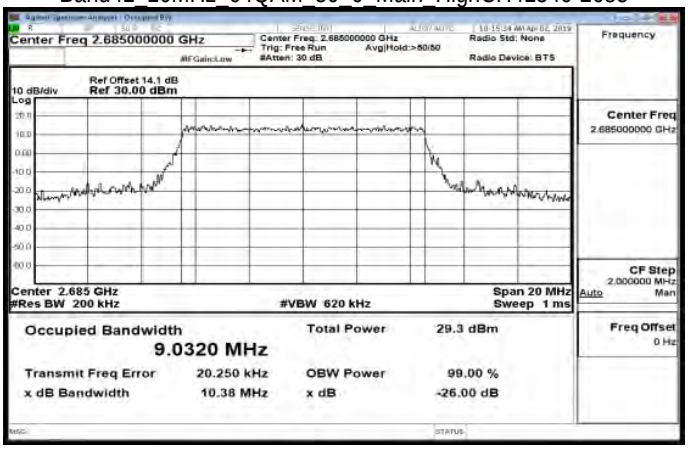

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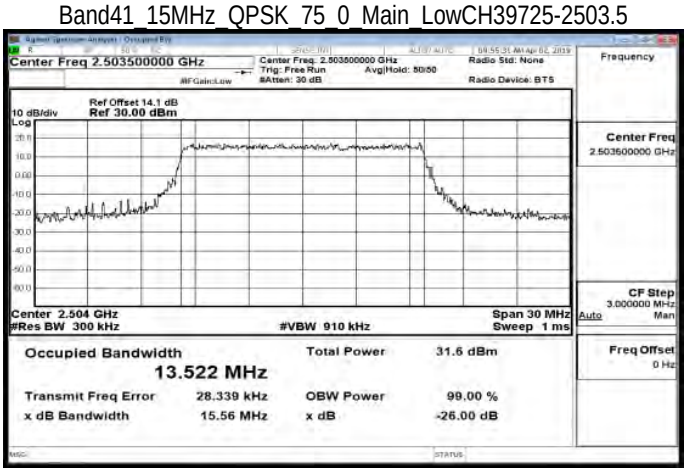
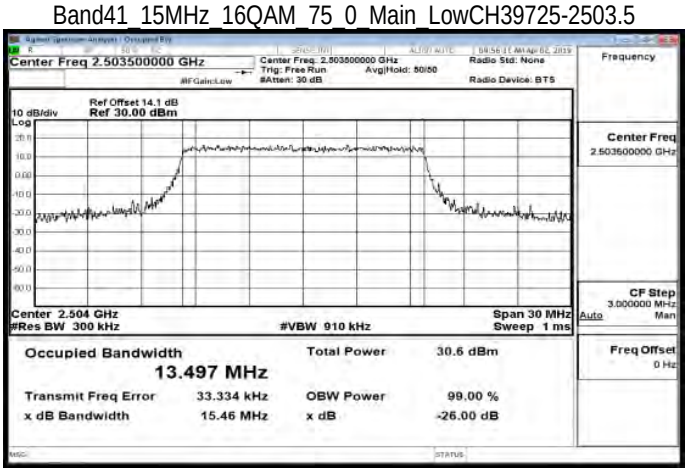
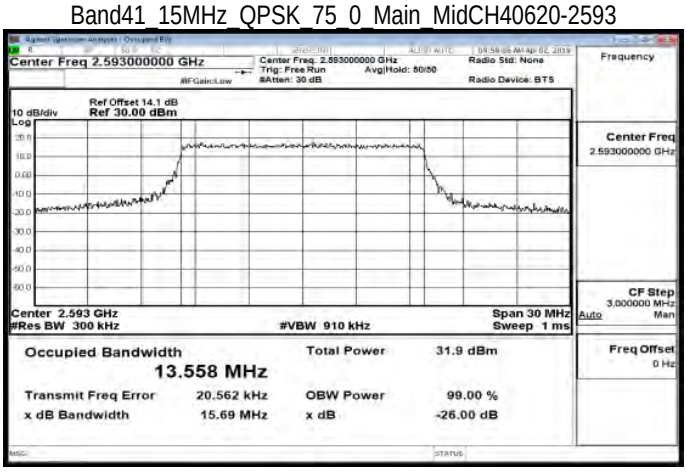
Band41_15MHz_QPSK_75_0_Main_LowCH39725-2503.5



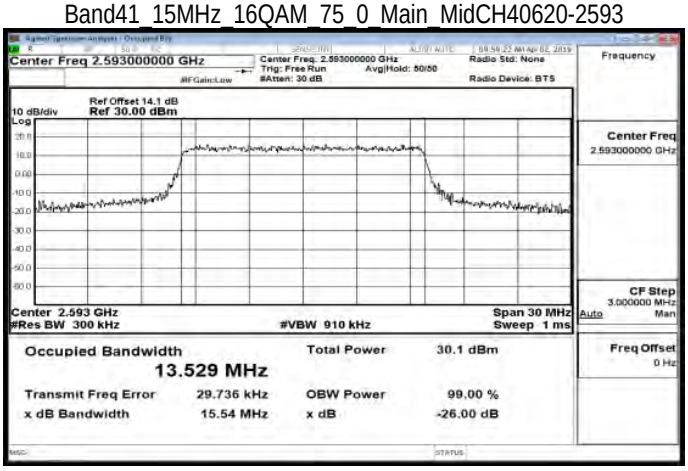
Band41_15MHz_16QAM_75_0_Main_LowCH39725-2503.5



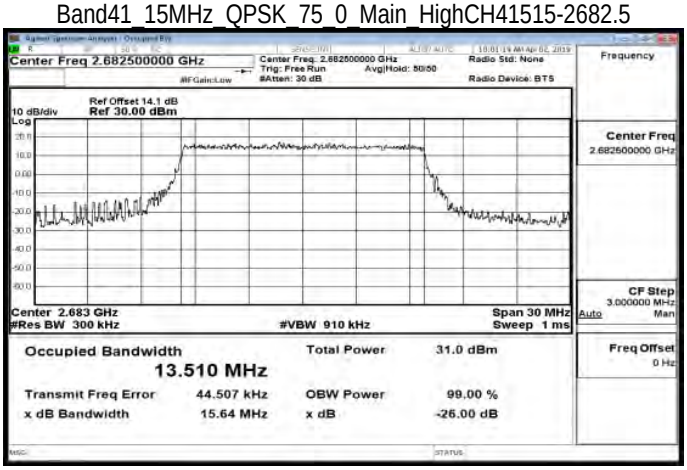
Band41_15MHz_QPSK_75_0_Main_MidCH40620-2593



Band41_15MHz_16QAM_75_0_Main_MidCH40620-2593



Band41_15MHz_QPSK_75_0_Main_HighCH41515-2682.5



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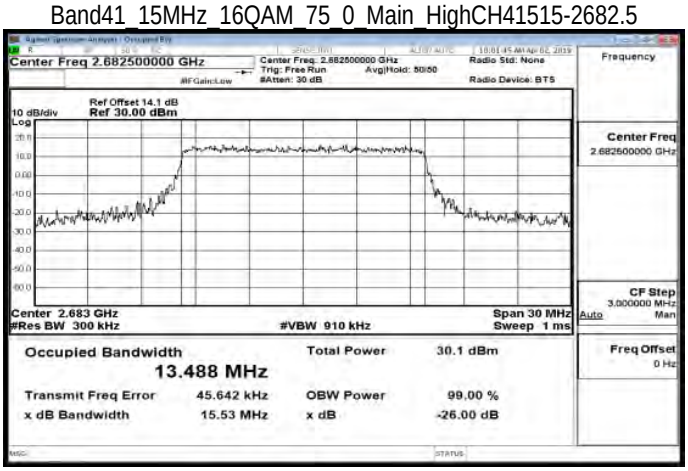

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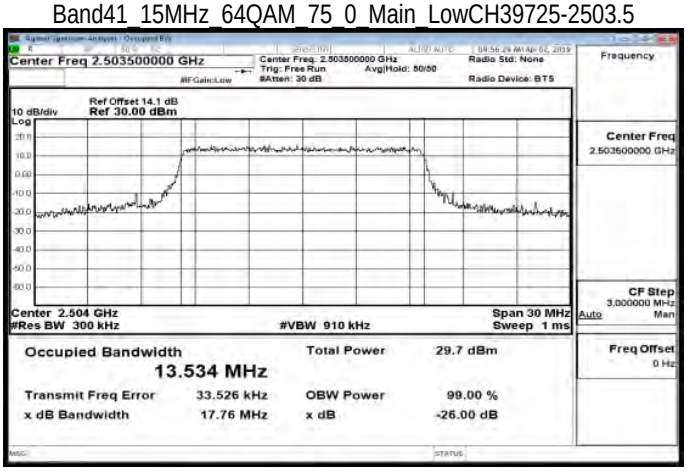
Band41_15MHz_64QAM_75_0_Main_LowCH39725-2503.5



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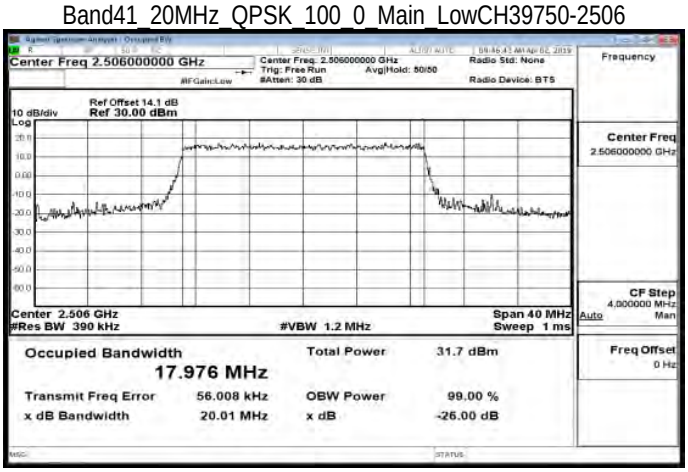
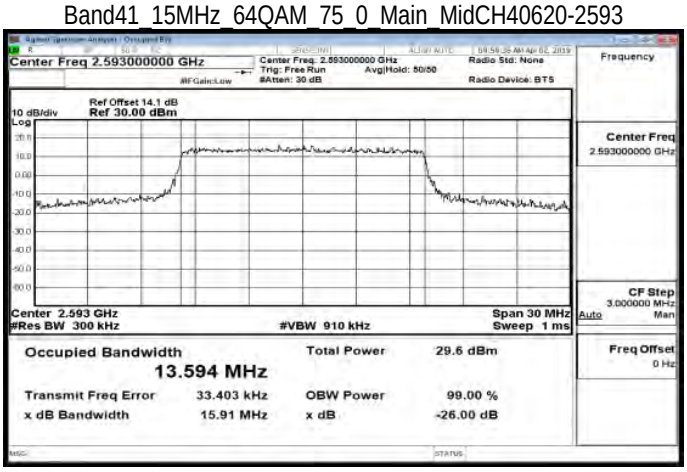
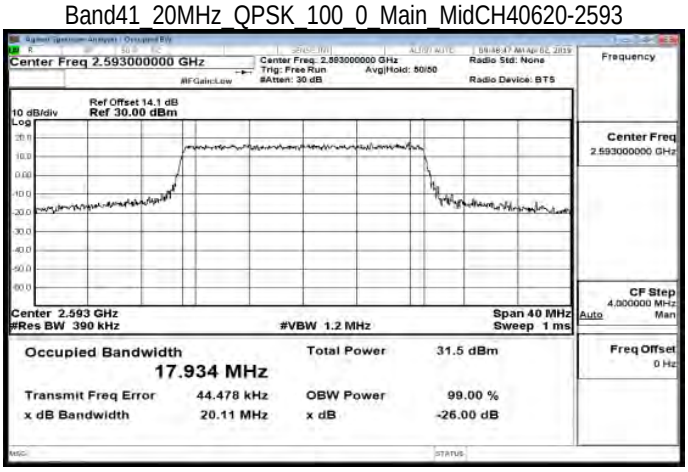


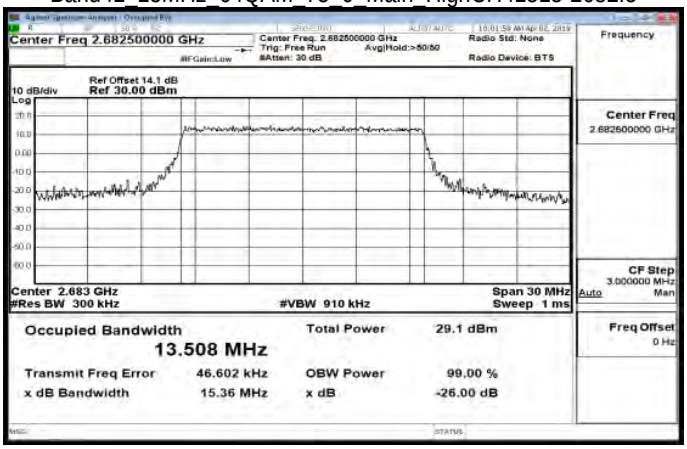
Band41_15MHz_64QAM_75_0_Main_MidCH40620-2593



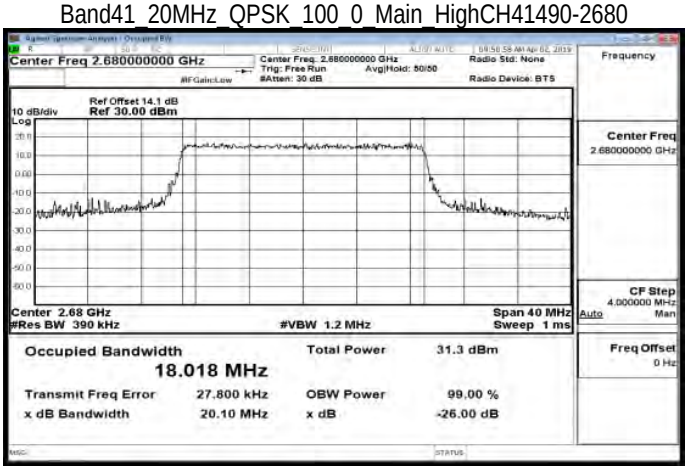
Band41_20MHz_QPSK_100_0_Main_MidCH40620-2593



Band41_15MHz_64QAM_75_0_Main_HighCH41515-2682.5



Band41_20MHz_QPSK_100_0_Main_HighCH41490-2680



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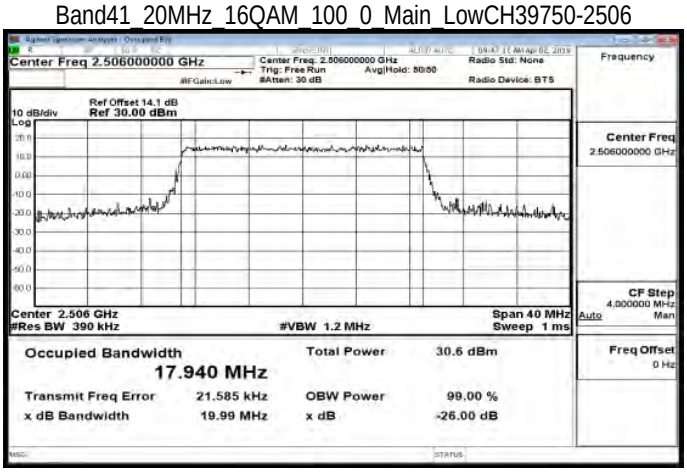
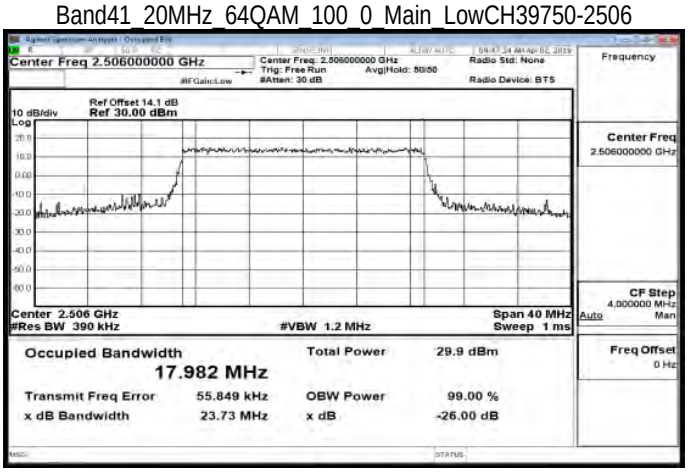
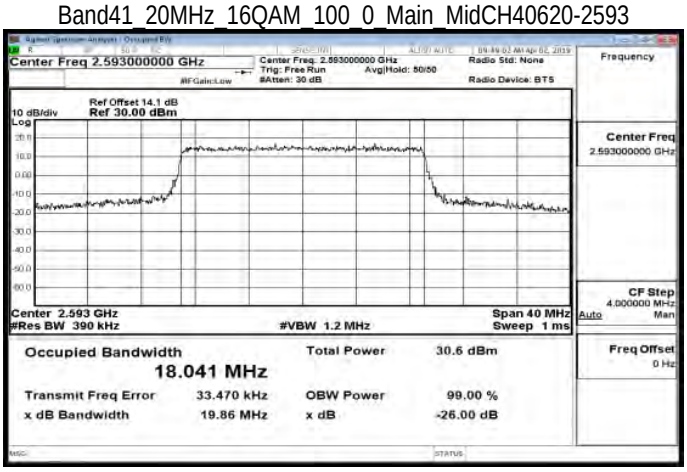
Band41_20MHz_16QAM_100_0_Main_LowCH39750-2506



Band41_20MHz_64QAM_100_0_Main_LowCH39750-2506



Band41_20MHz_16QAM_100_0_Main_MidCH40620-2593



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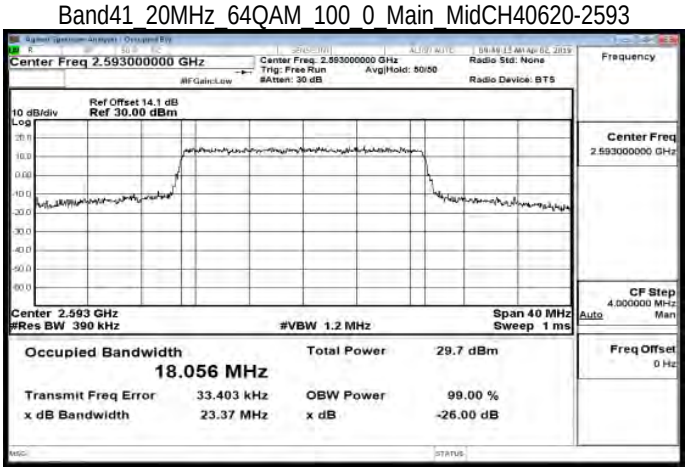
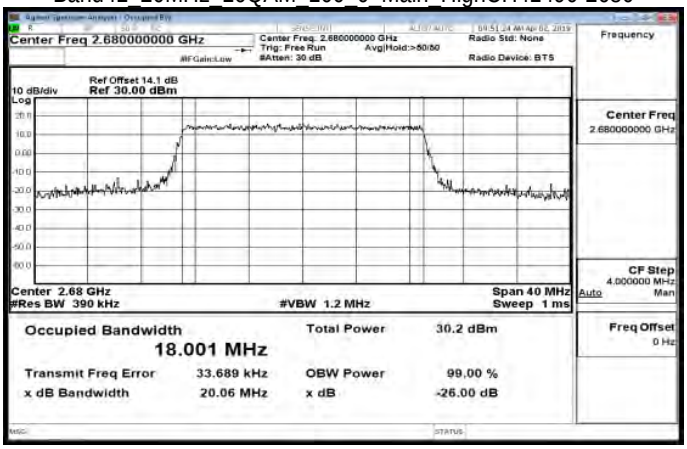


Band41_20MHz_16QAM_100_0_Main_HighCH41490-2680



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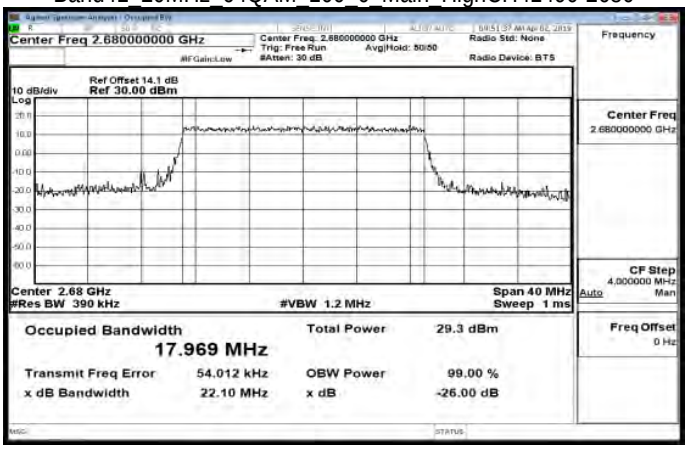

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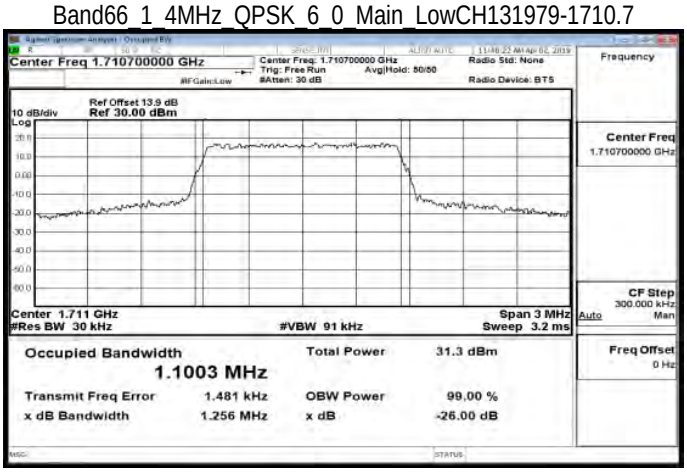
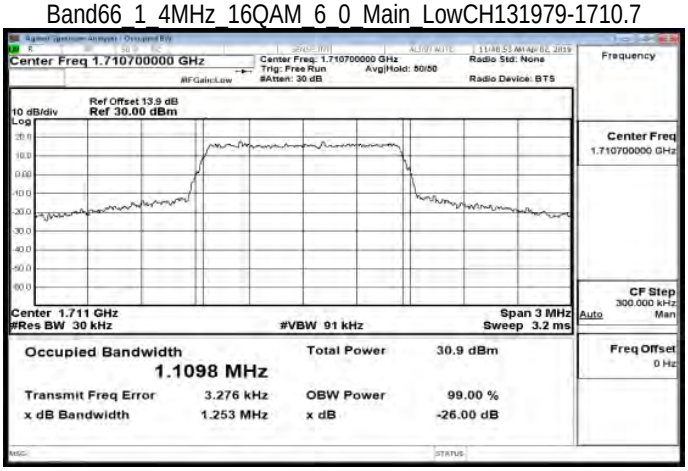
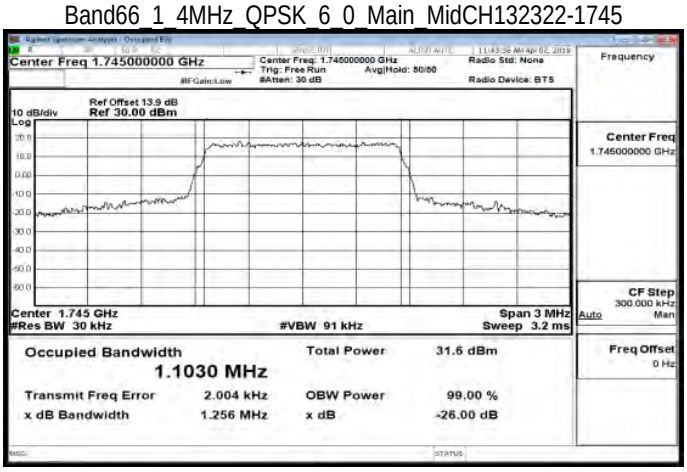
Band66_1_4MHz_QPSK_6_0_Main_LowCH131979-1710.7



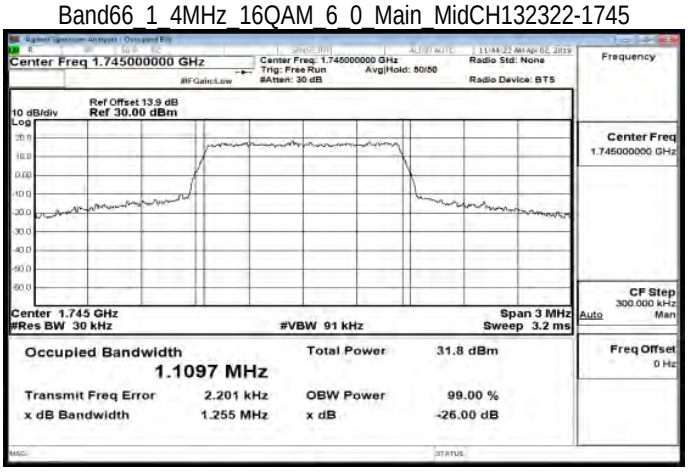
Band66_1_4MHz_16QAM_6_0_Main_LowCH131979-1710.7



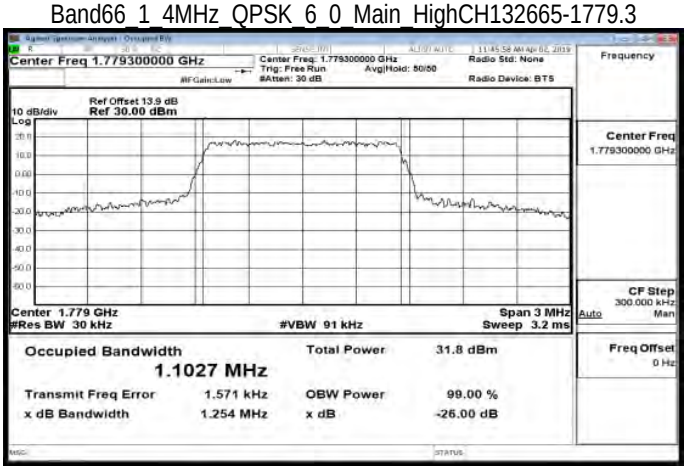
Band66_1_4MHz_QPSK_6_0_Main_MidCH132322-1745



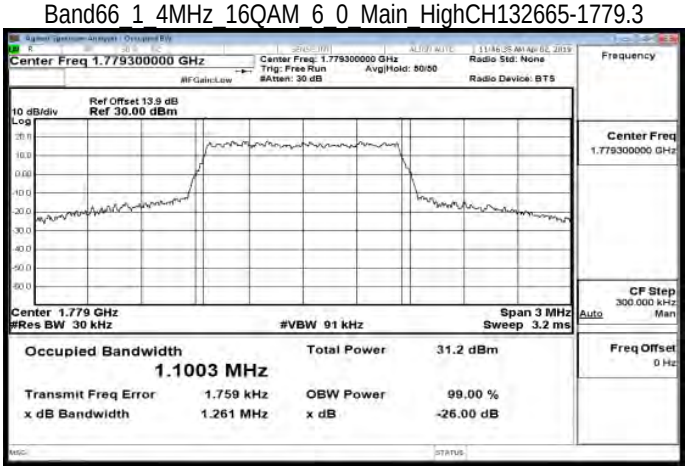
Band66_1_4MHz_16QAM_6_0_Main_MidCH132322-1745



Band66_1_4MHz_QPSK_6_0_Main_HighCH132665-1779.3



Band66_1_4MHz_16QAM_6_0_Main_HighCH132665-1779.3



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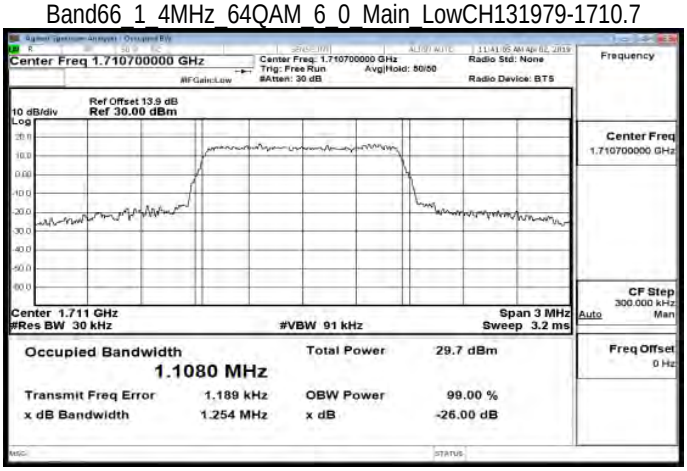
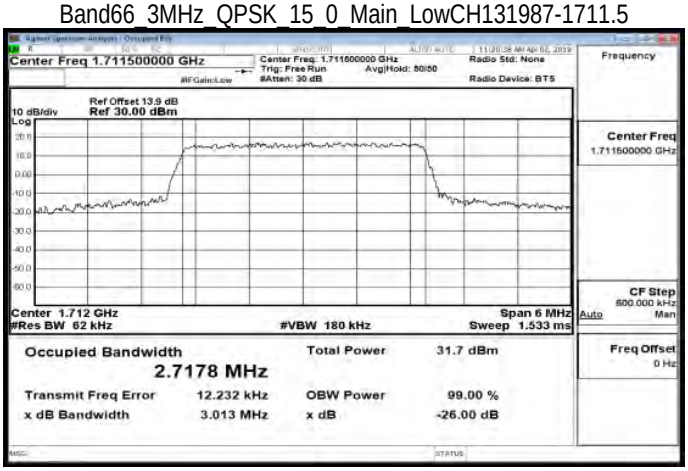
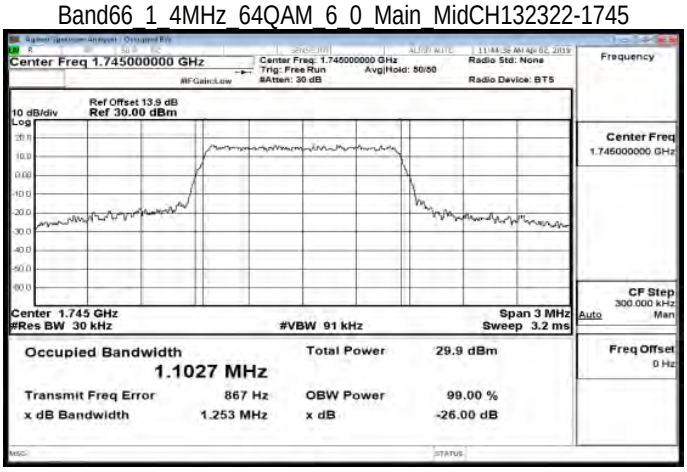
Band66_1_4MHz_64QAM_6_0_Main_LowCH131979-1710.7



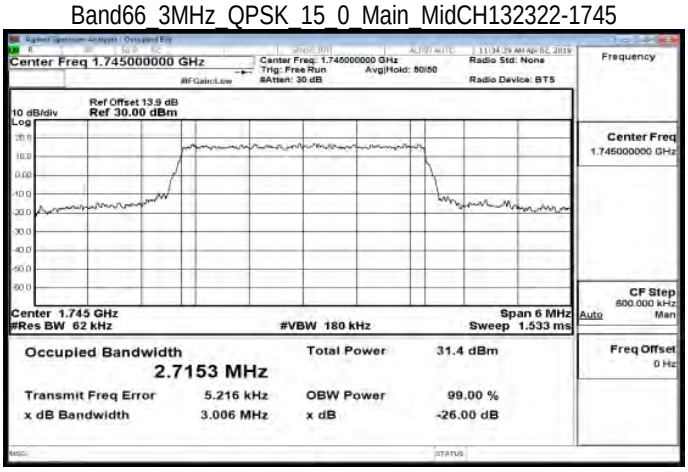
Band66_3MHz_QPSK_15_0_Main_LowCH131987-1711.5



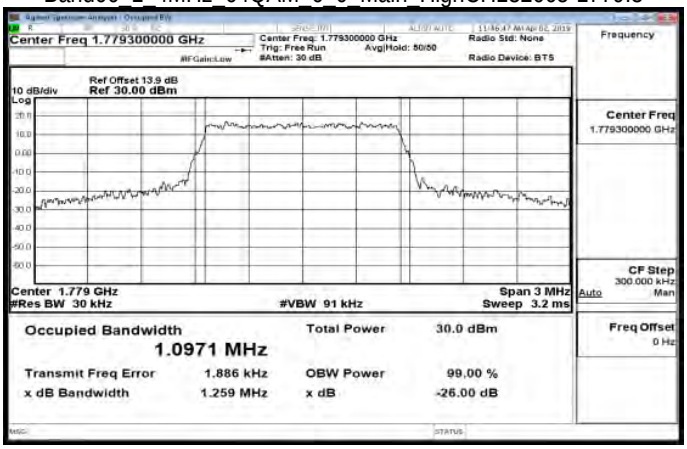
Band66_1_4MHz_64QAM_6_0_Main_MidCH132322-1745



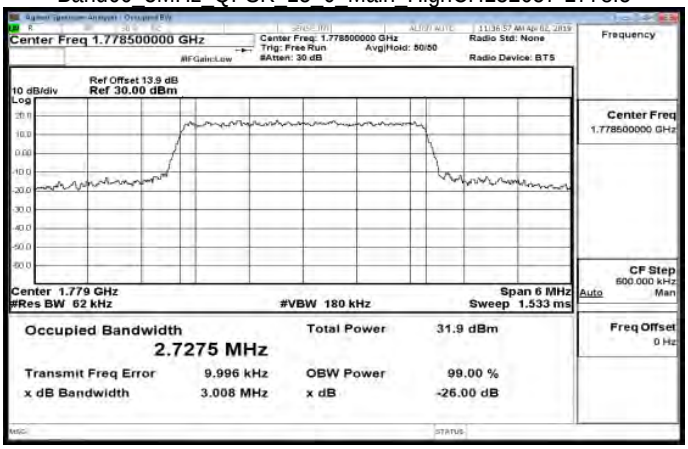
Band66_3MHz_QPSK_15_0_Main_MidCH132322-1745



Band66_1_4MHz_64QAM_6_0_Main_HighCH132665-1779.3



Band66_3MHz_QPSK_15_0_Main_HighCH132657-1778.5



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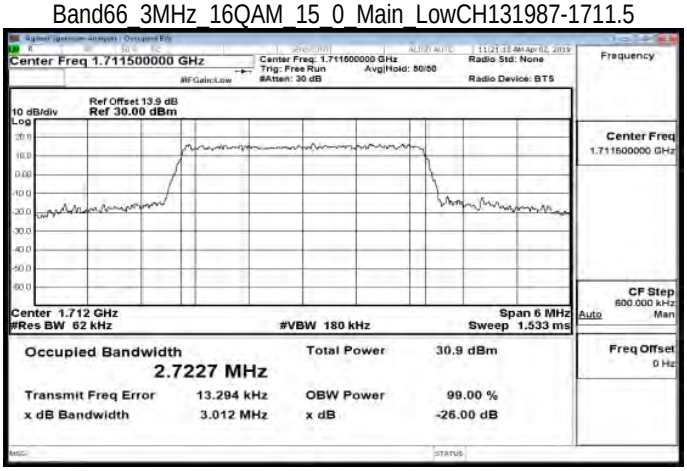
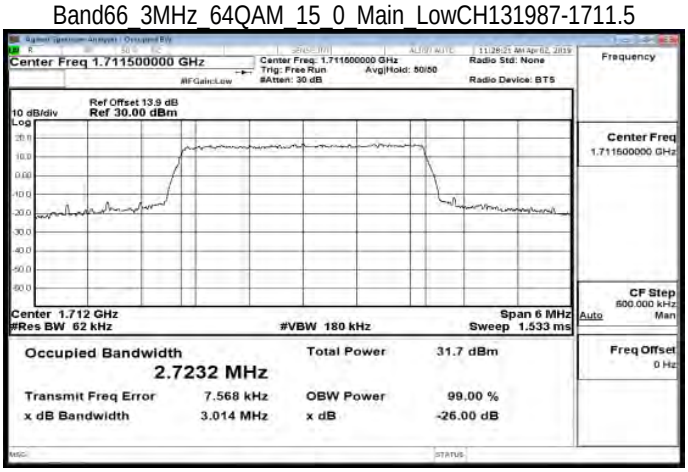
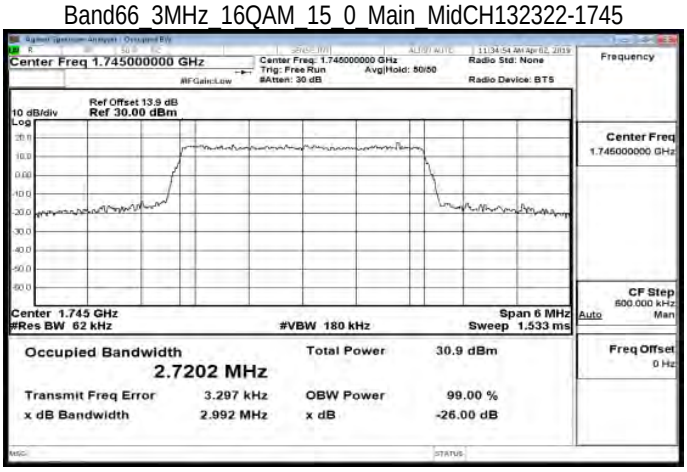
Band66_3MHz_16QAM_15_0_Main_LowCH131987-1711.5



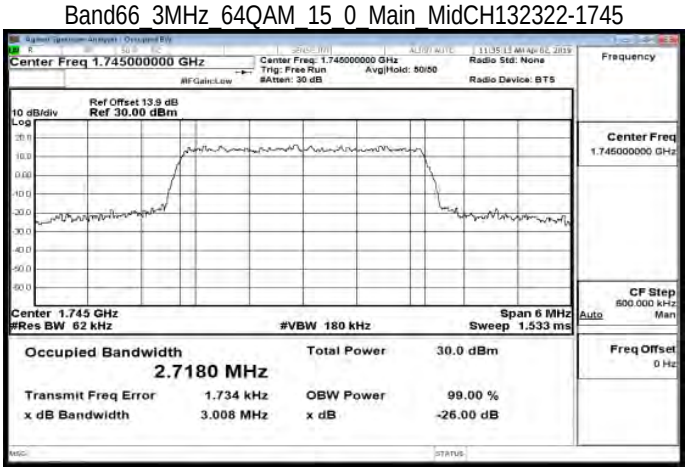
Band66_3MHz_64QAM_15_0_Main_LowCH131987-1711.5



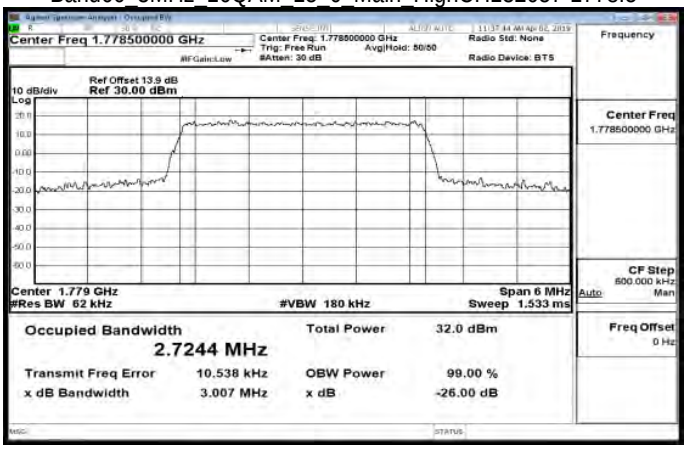
Band66_3MHz_16QAM_15_0_Main_MidCH132322-1745



Band66_3MHz_64QAM_15_0_Main_MidCH132322-1745



Band66_3MHz_16QAM_15_0_Main_HighCH132657-1778.5



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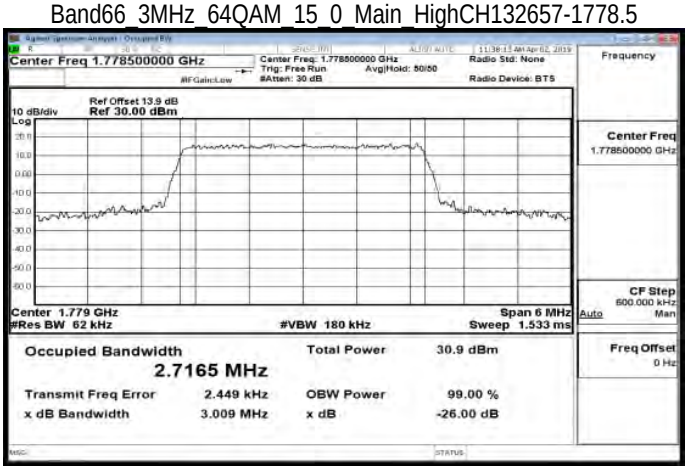

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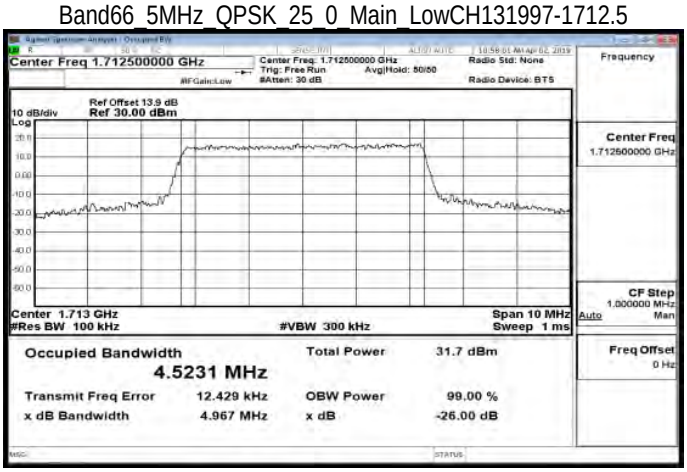
Band66_5MHz_QPSK_25_0_Main_LowCH131997-1712.5



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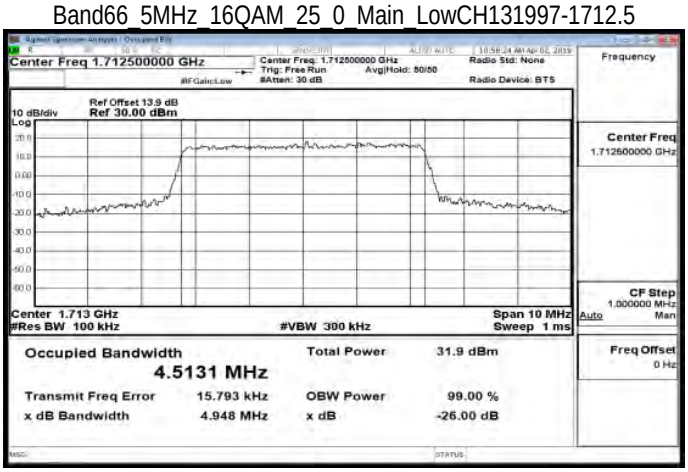
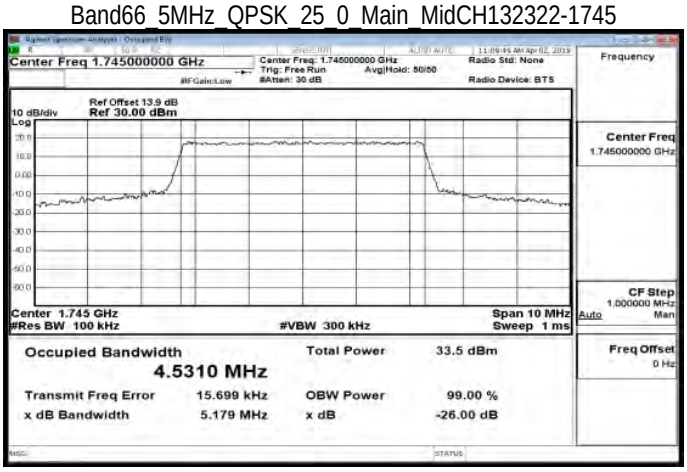
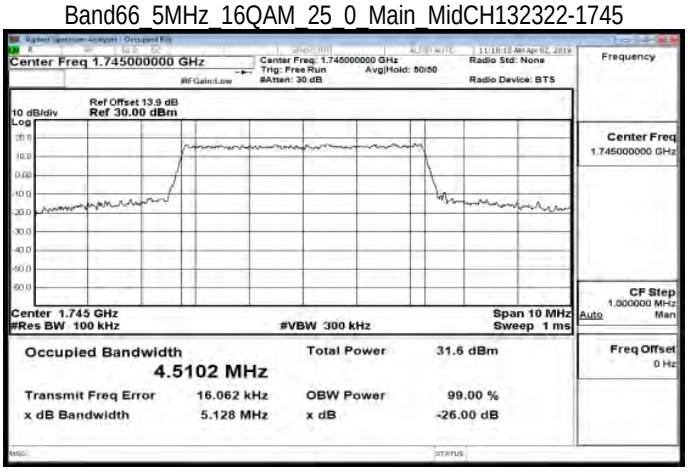


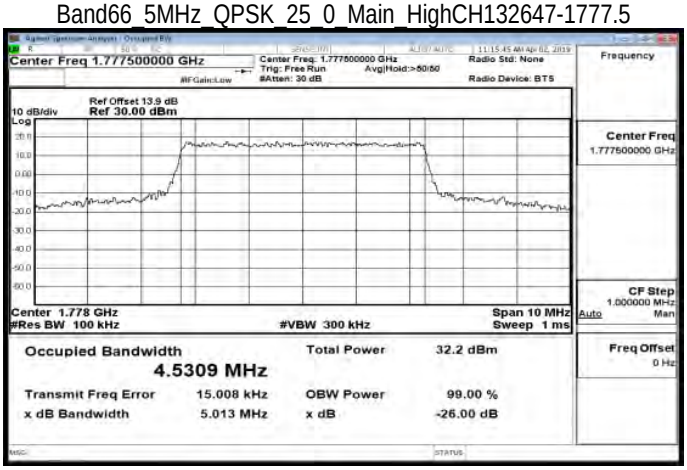
Band66_5MHz_QPSK_25_0_Main_MidCH132322-1745



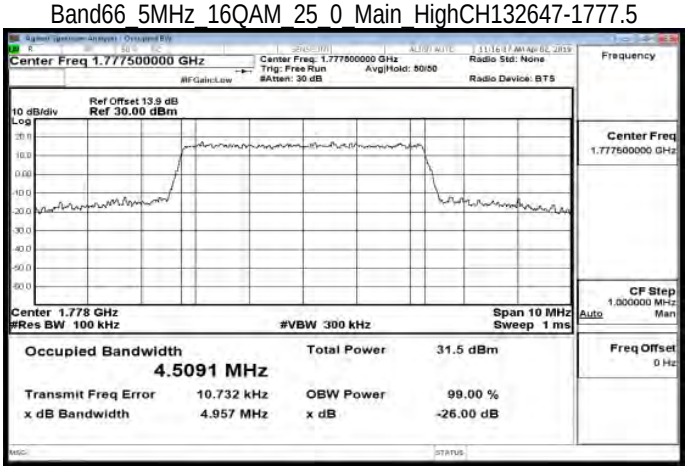
Band66_5MHz_16QAM_25_0_Main_MidCH132322-1745



Band66_5MHz_QPSK_25_0_Main_HighCH132647-1777.5



Band66_5MHz_16QAM_25_0_Main_HighCH132647-1777.5



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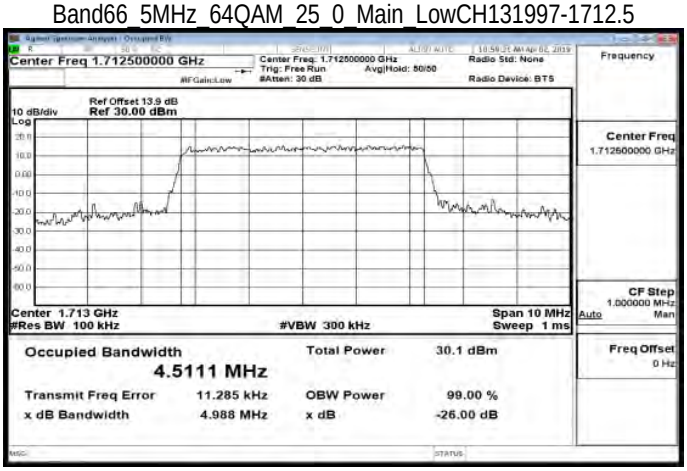
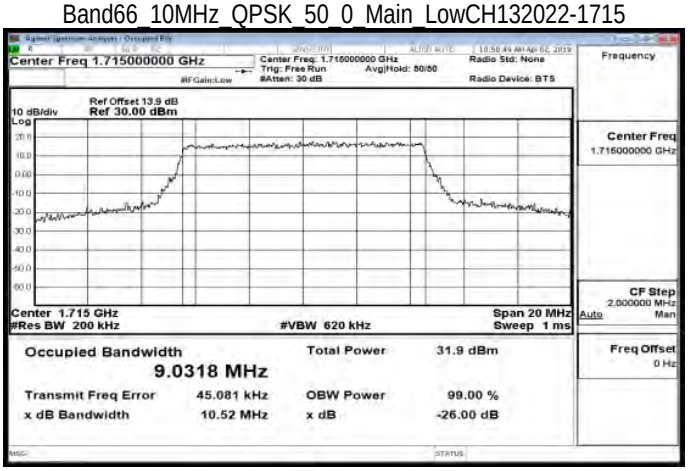
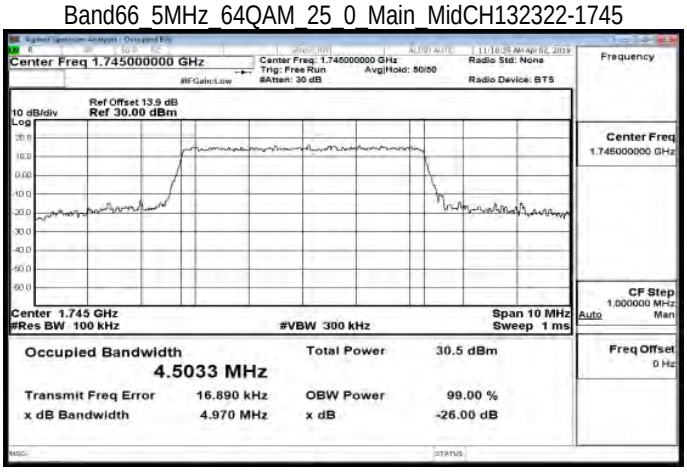
Band66_5MHz_64QAM_25_0_Main_LowCH131997-1712.5



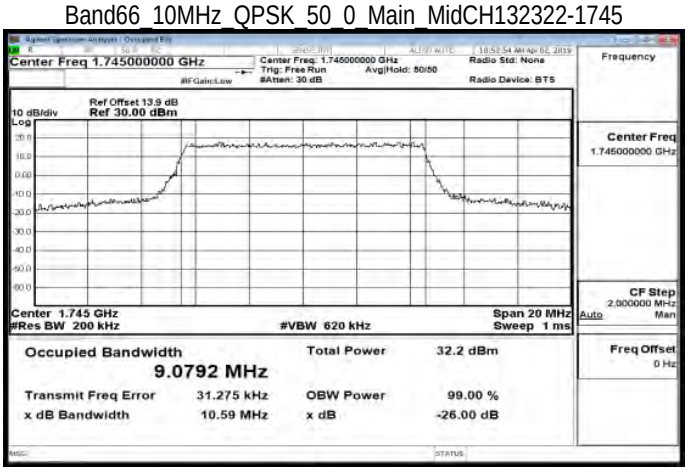
Band66_10MHz_QPSK_50_0_Main_LowCH132022-1715



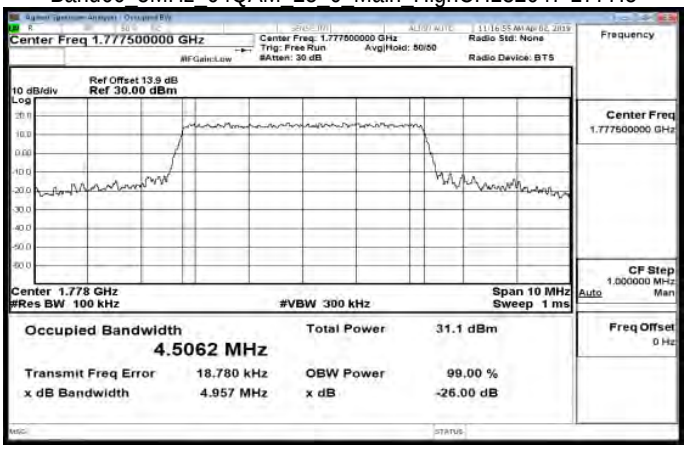
Band66_5MHz_64QAM_25_0_Main_MidCH132322-1745



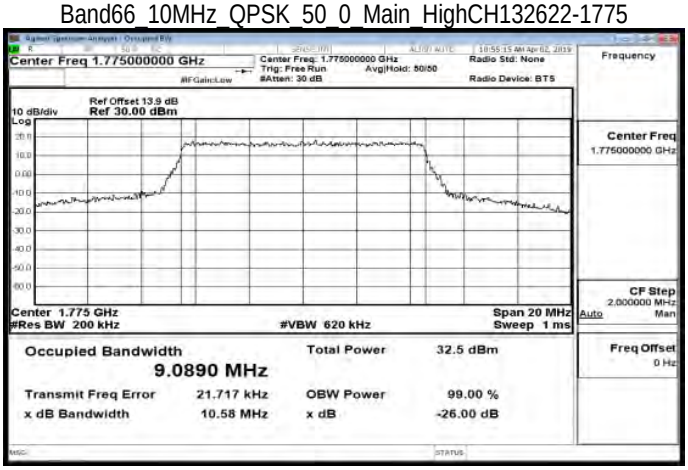
Band66_10MHz_QPSK_50_0_Main_MidCH132322-1745



Band66_5MHz_64QAM_25_0_Main_HighCH132647-1777.5



Band66_10MHz_QPSK_50_0_Main_HighCH132622-1775



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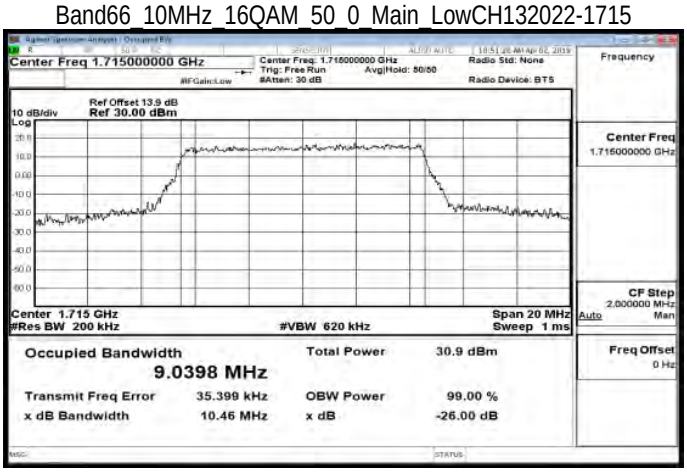
Band66_10MHz_16QAM_50_0_Main_LowCH132022-1715



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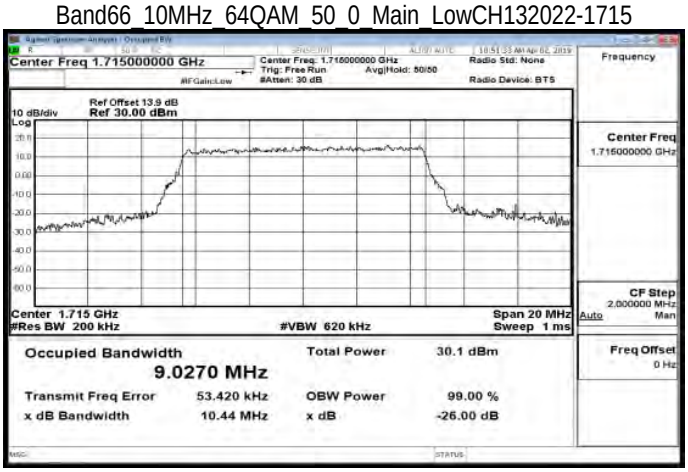
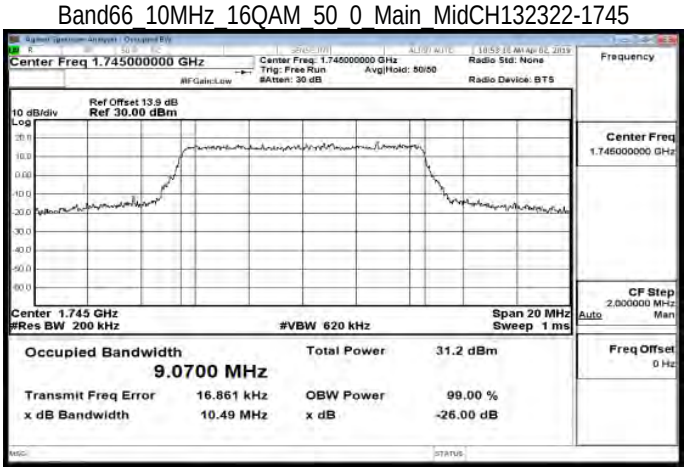


Band66_10MHz_16QAM_50_0_Main_MidCH132322-1745



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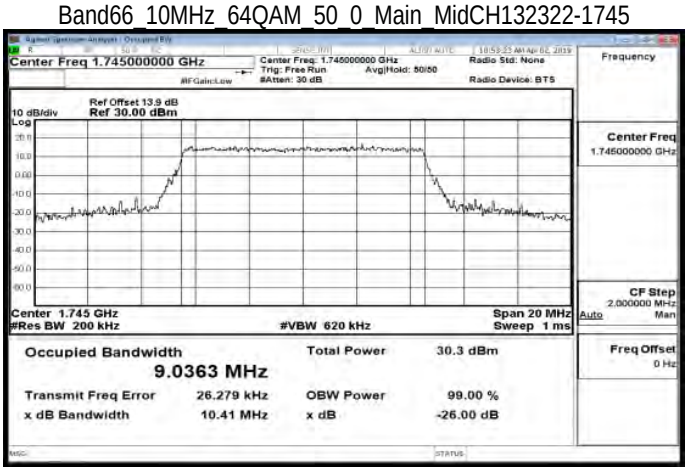

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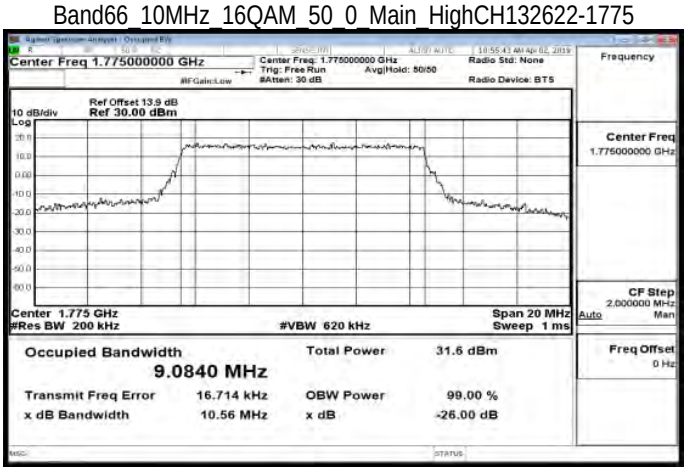

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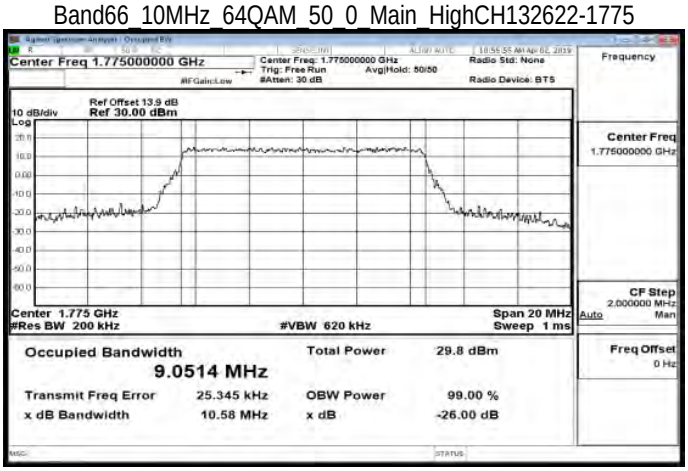

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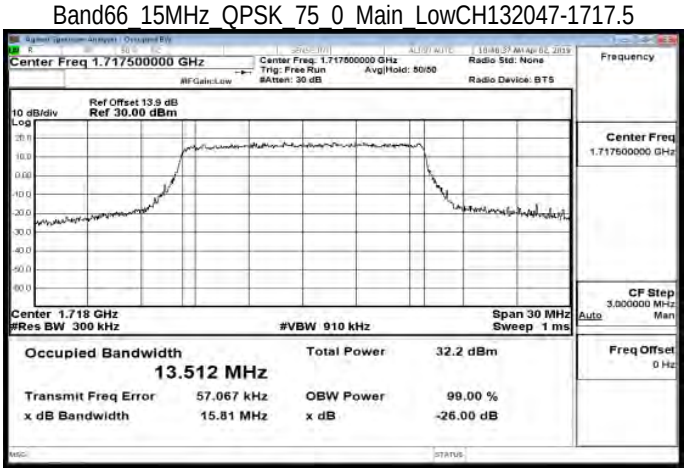
Band66_15MHz_QPSK_75_0_Main_LowCH132047-1717.5



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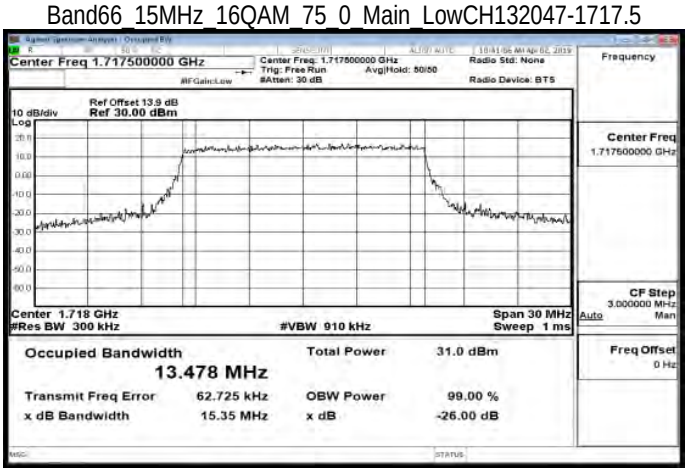

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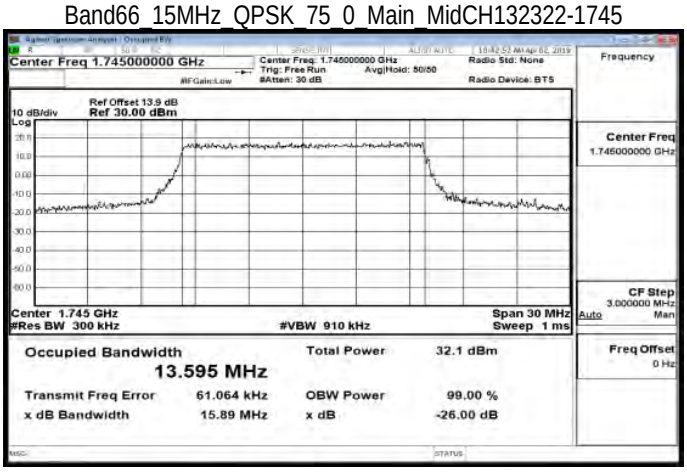

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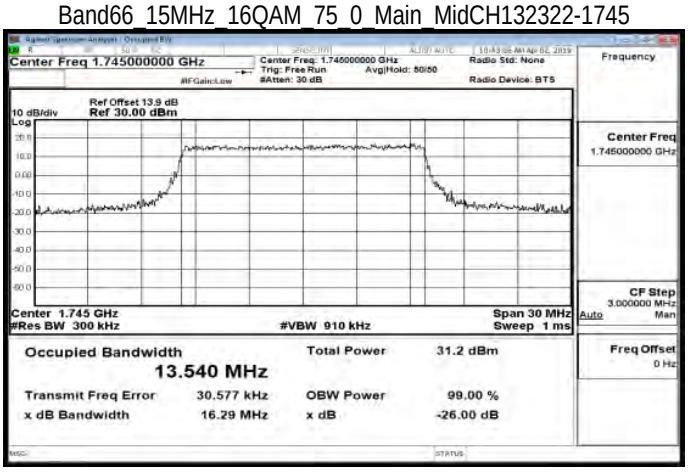

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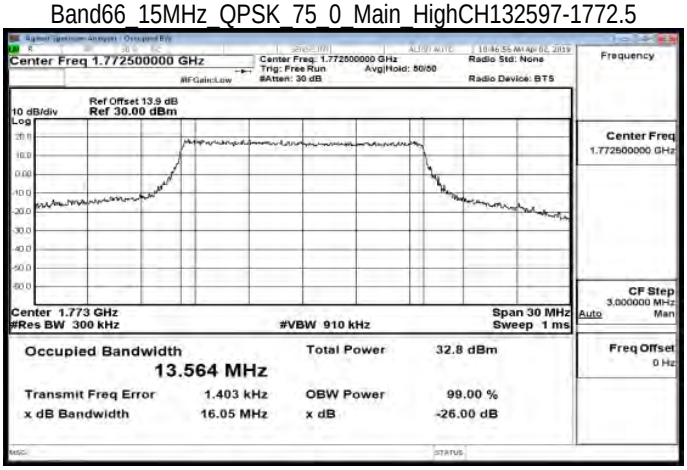

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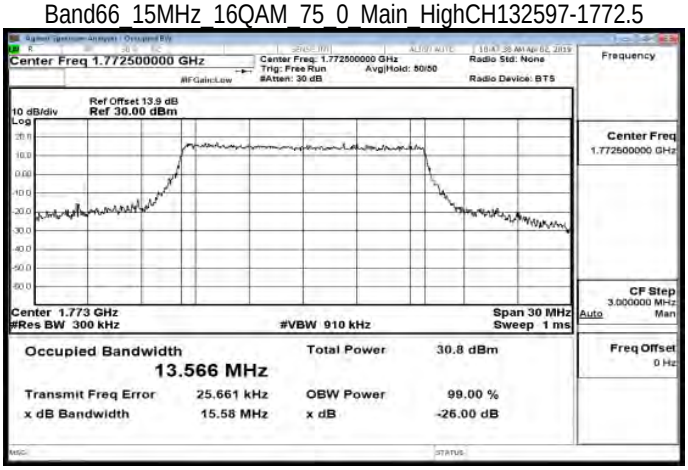

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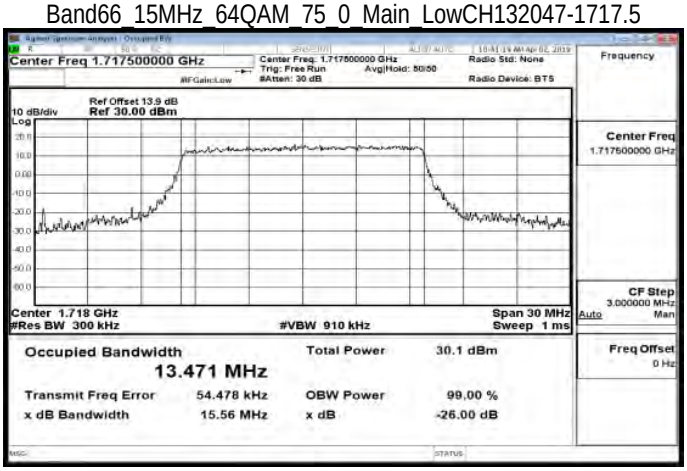
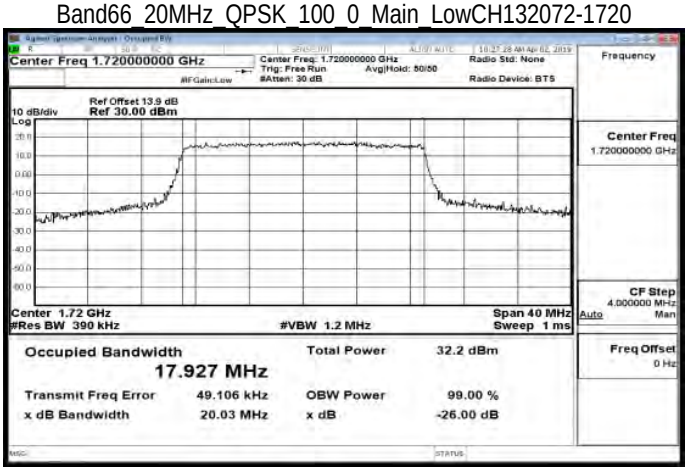
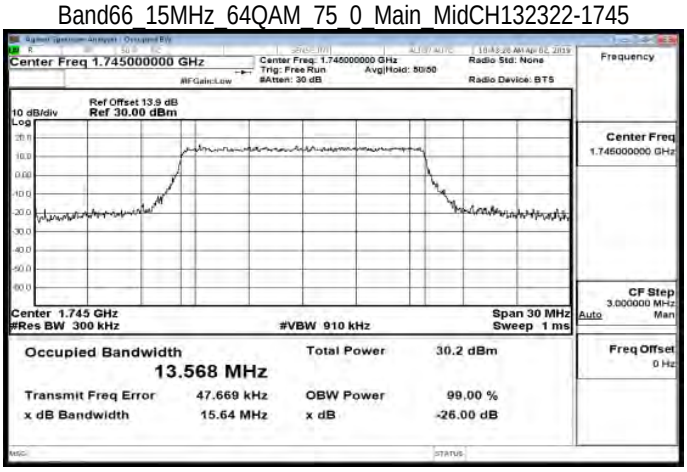
Band66_15MHz_64QAM_75_0_Main_LowCH132047-1717.5



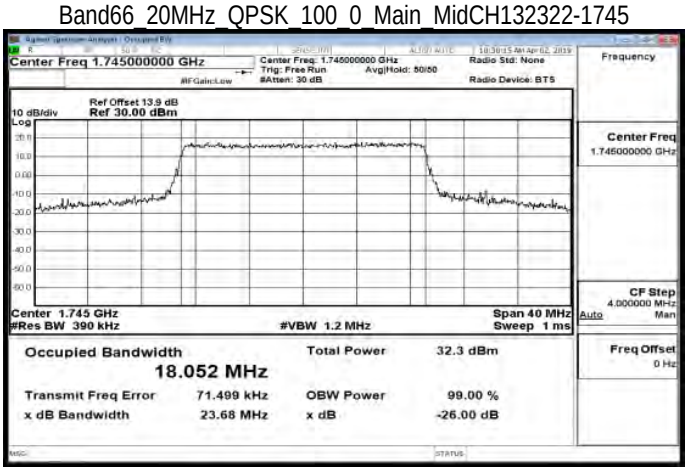
Band66_20MHz_QPSK_100_0_Main_LowCH132072-1720



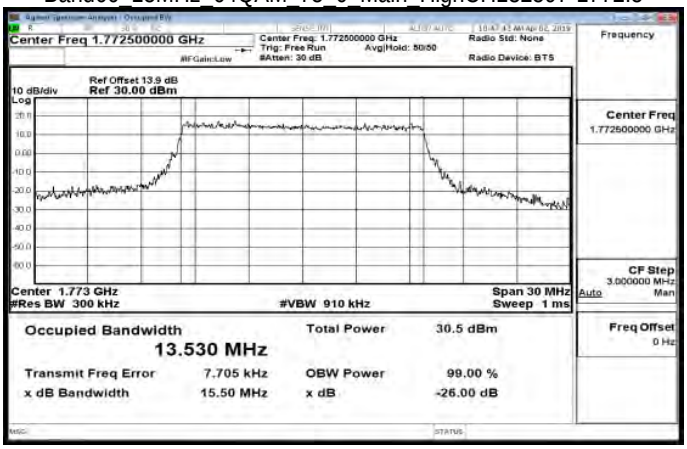
Band66_15MHz_64QAM_75_0_Main_MidCH132322-1745



Band66_20MHz_QPSK_100_0_Main_MidCH132322-1745



Band66_15MHz_64QAM_75_0_Main_HighCH132597-1772.5



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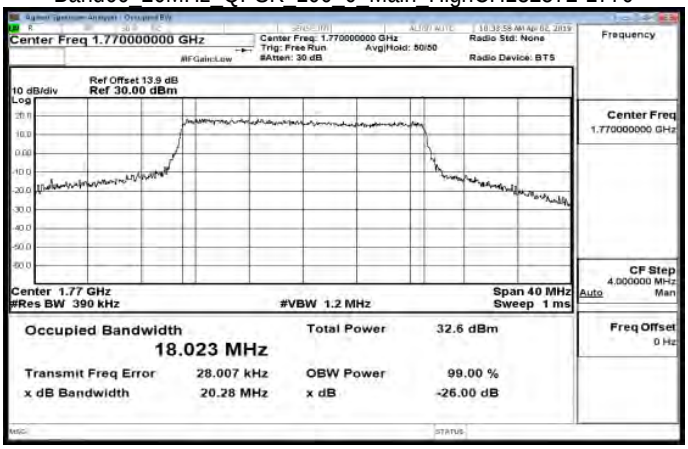

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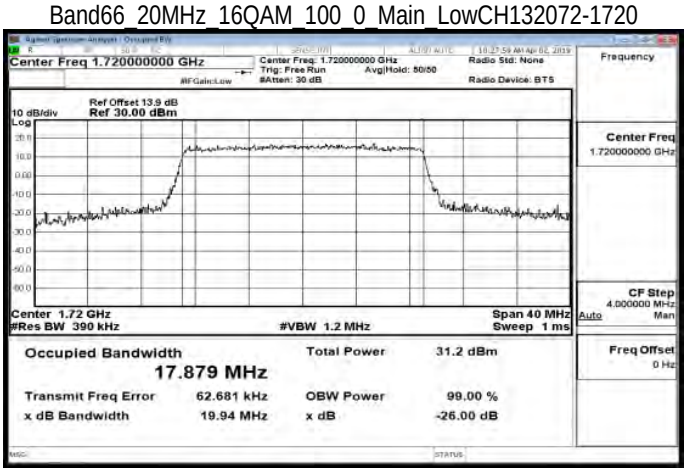
Band66_20MHz_16QAM_100_0_Main_LowCH132072-1720



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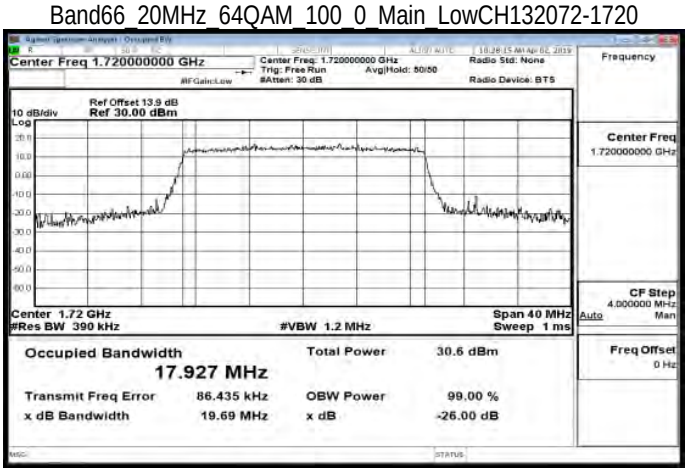
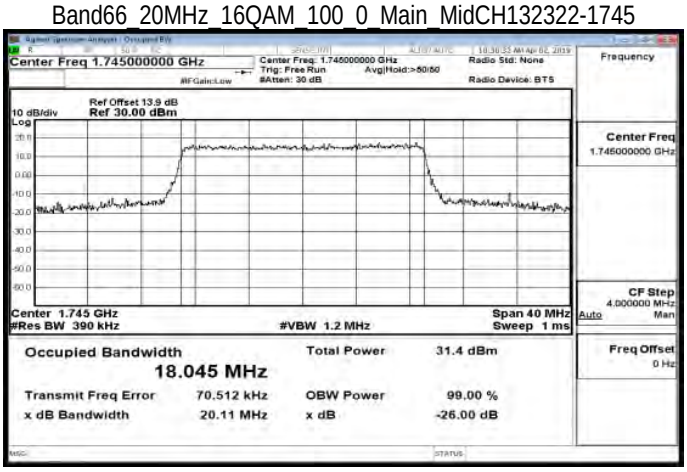
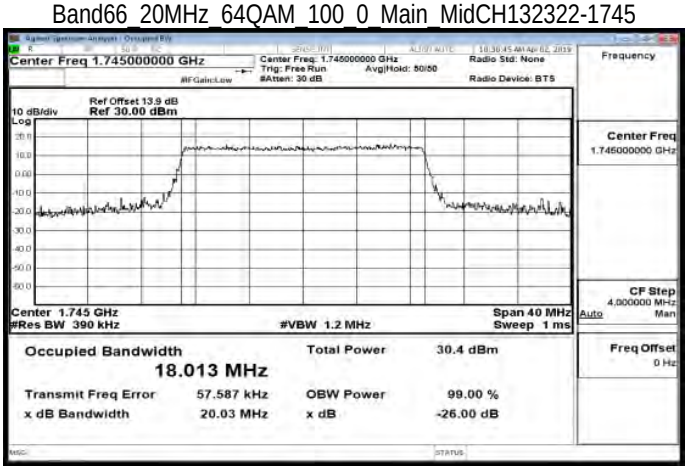


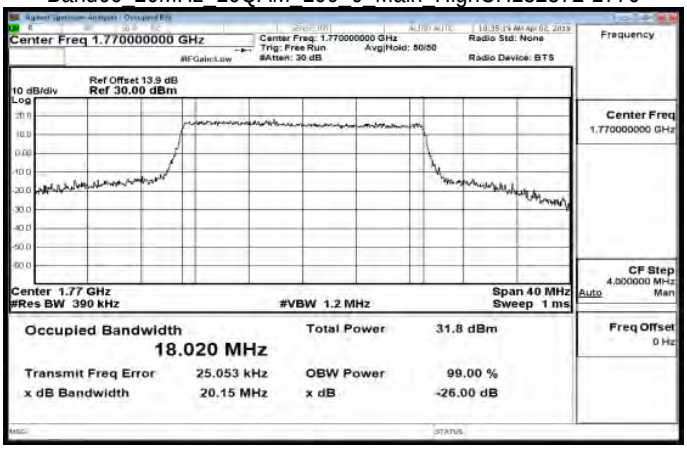
Band66_20MHz_16QAM_100_0_Main_MidCH132322-1745



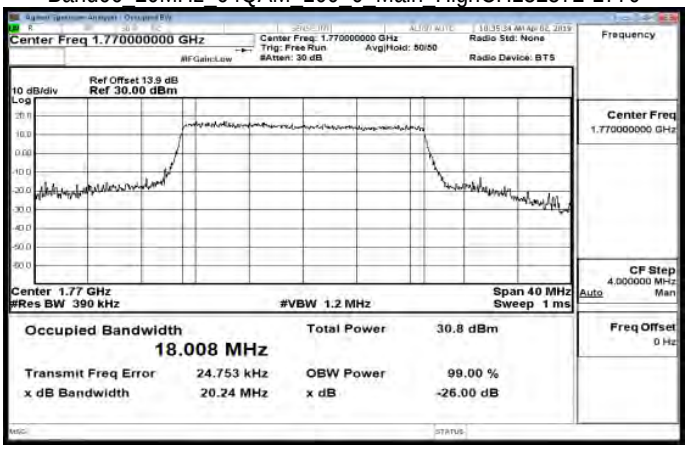
Band66_20MHz_64QAM_100_0_Main_MidCH132322-1745



Band66_20MHz_16QAM_100_0_Main_HighCH132572-1770



Band66_20MHz_64QAM_100_0_Main_HighCH132572-1770



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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h),Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(c)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(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 nstrumentation 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.

§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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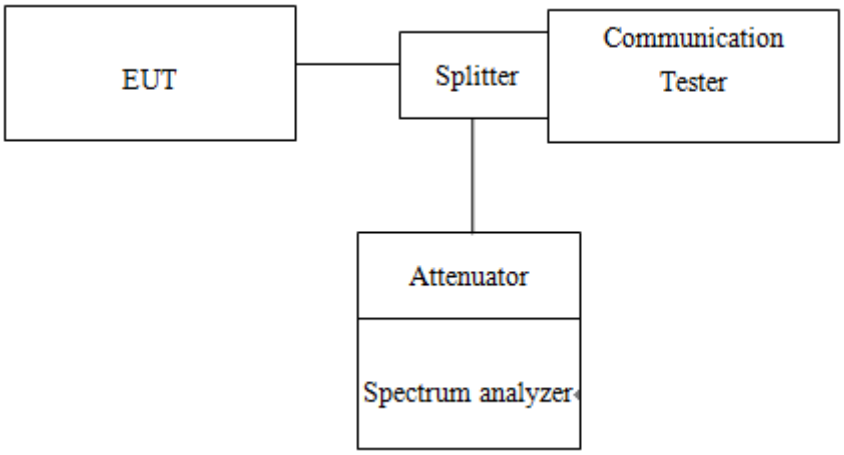
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

§90.543 Emission limitations
(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

8.2. Test SET-UP



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8.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

8.4. 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	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

8.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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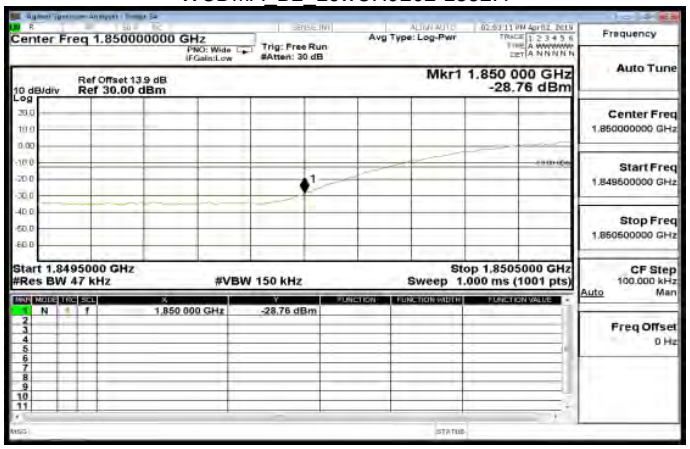
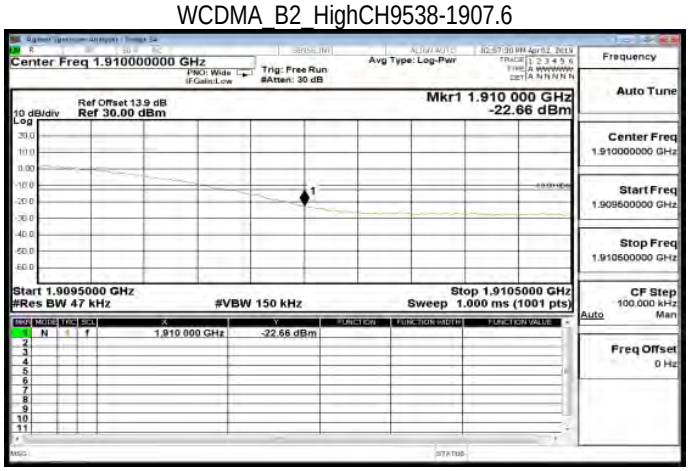
Bandedge

WCDMA_B2_LowCH9262-1852.4



WCDMA_B2_HighCH9538-1907.6



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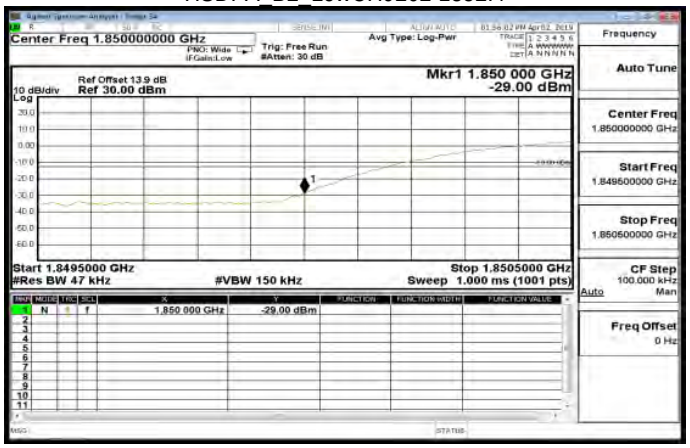

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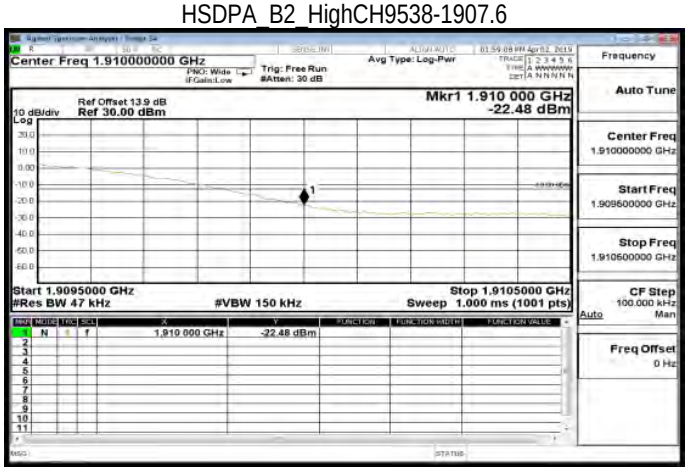

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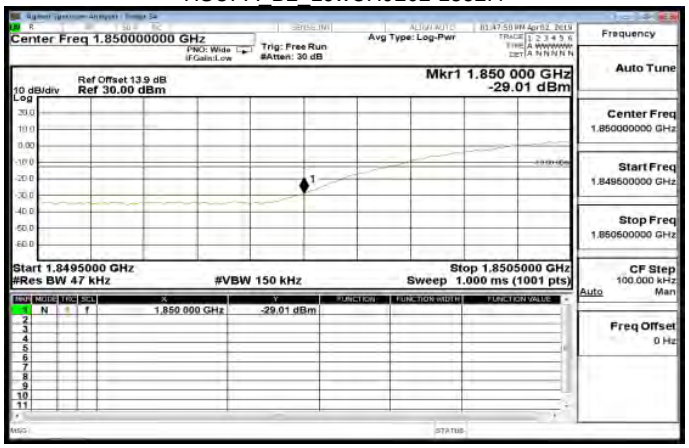

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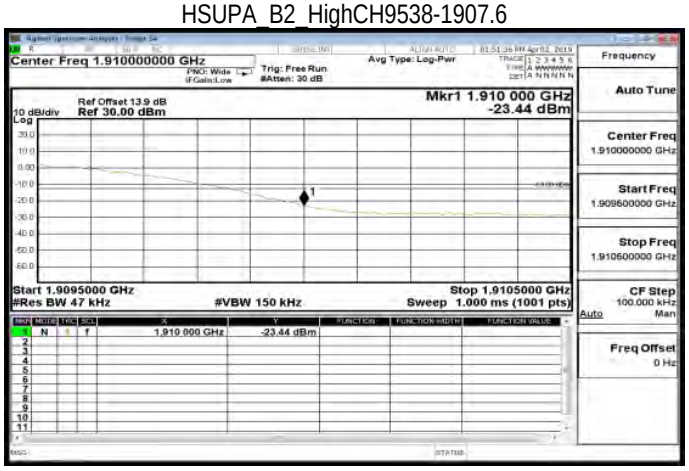

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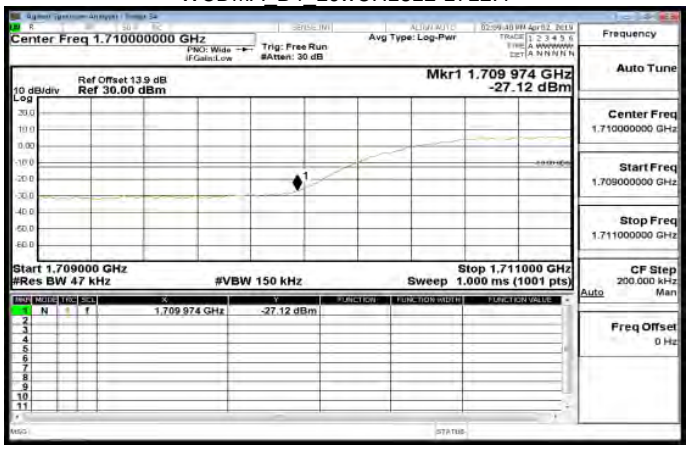

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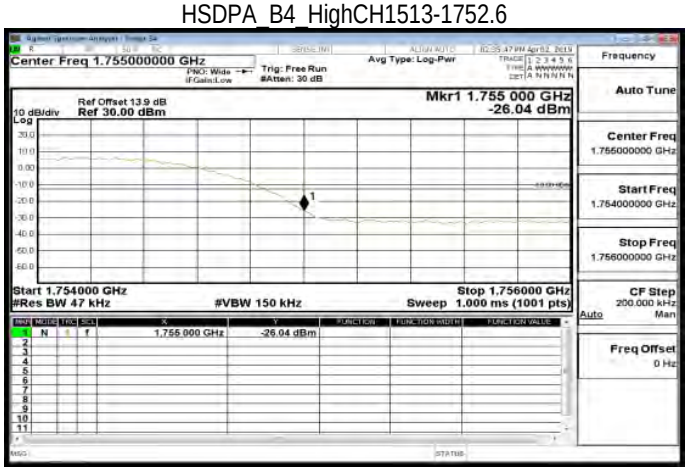

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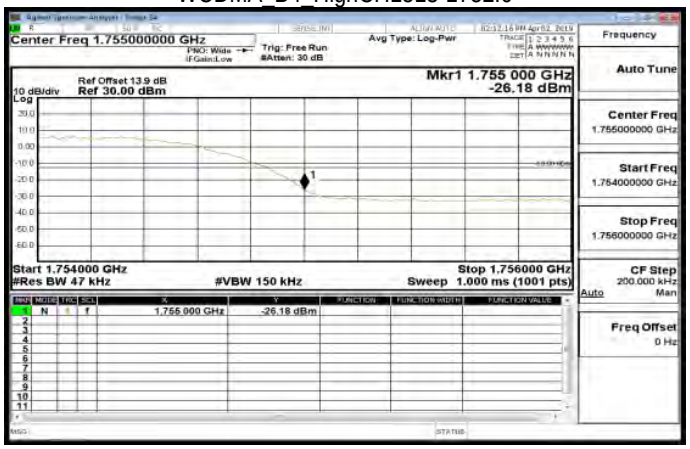

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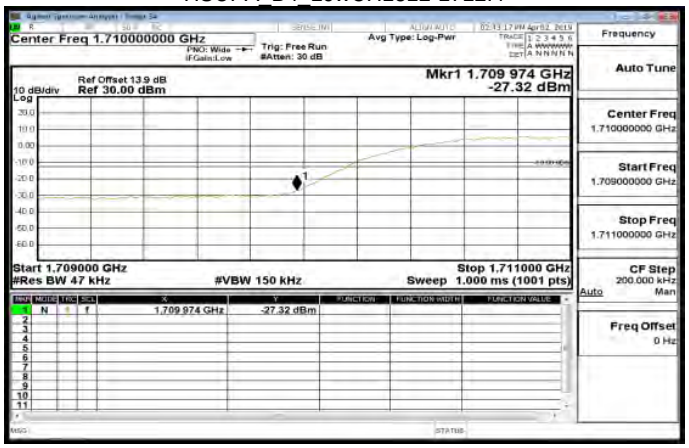

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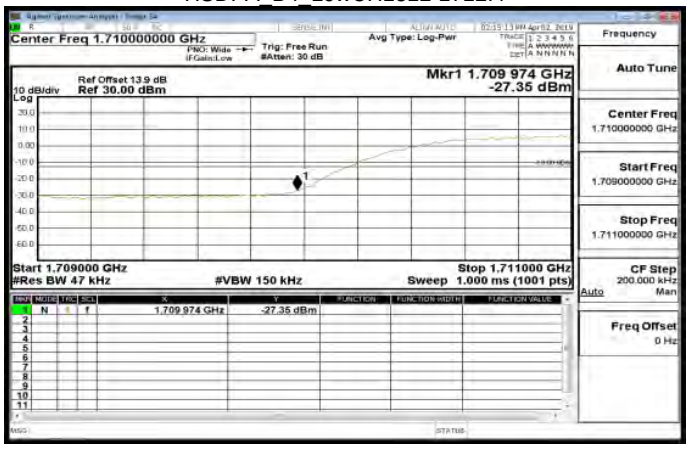

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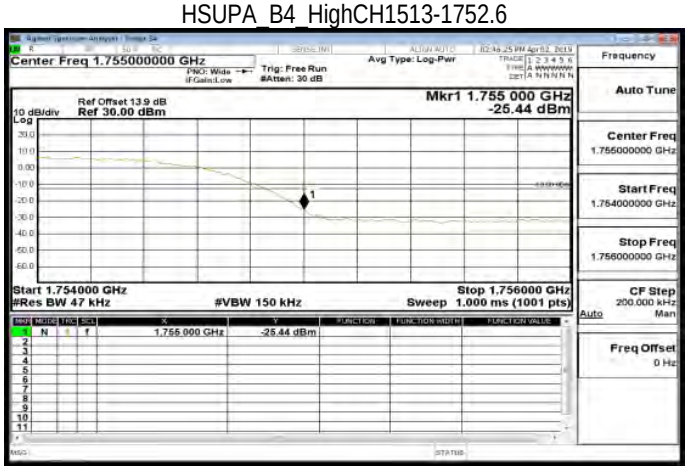

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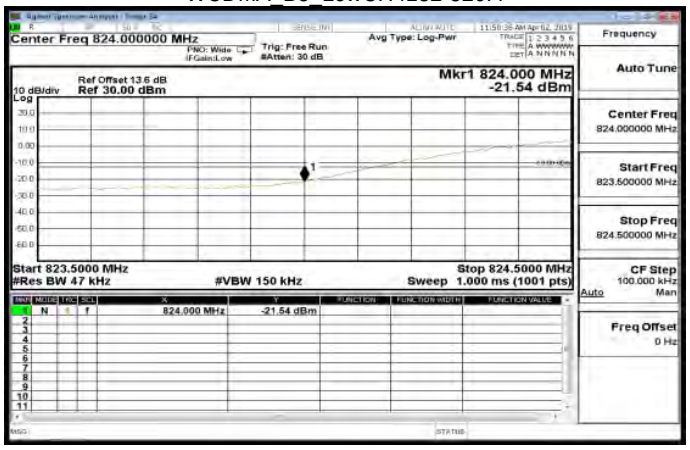
WCDMA_B5_LowCH4132-826.4



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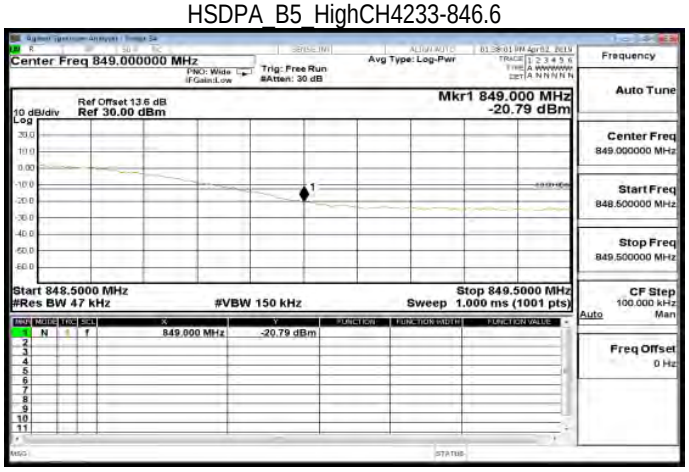

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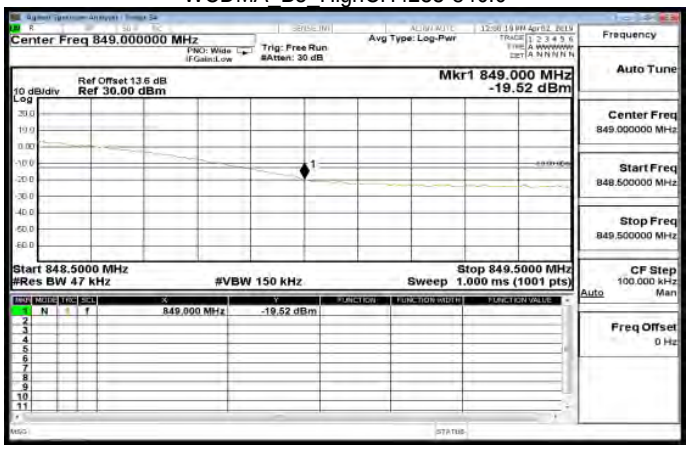

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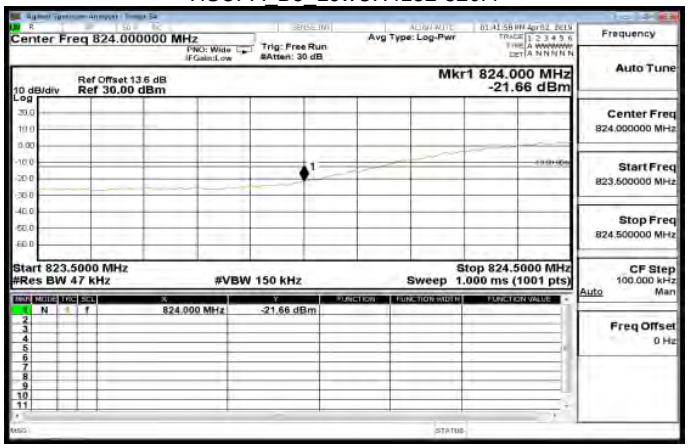

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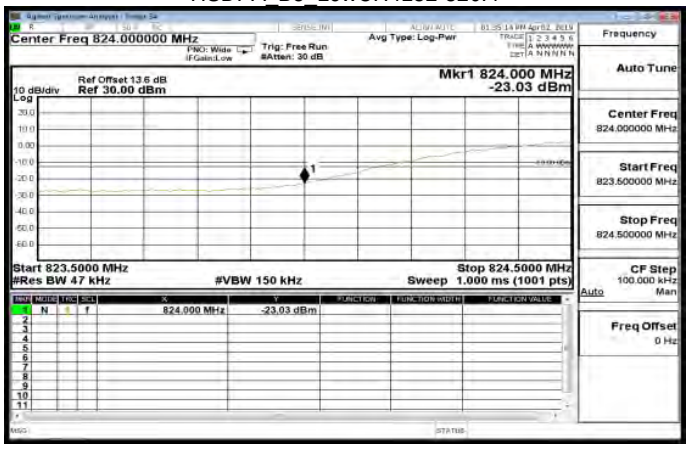

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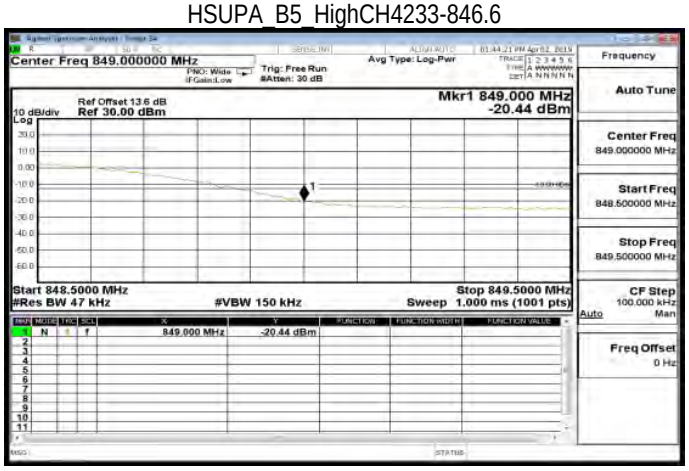

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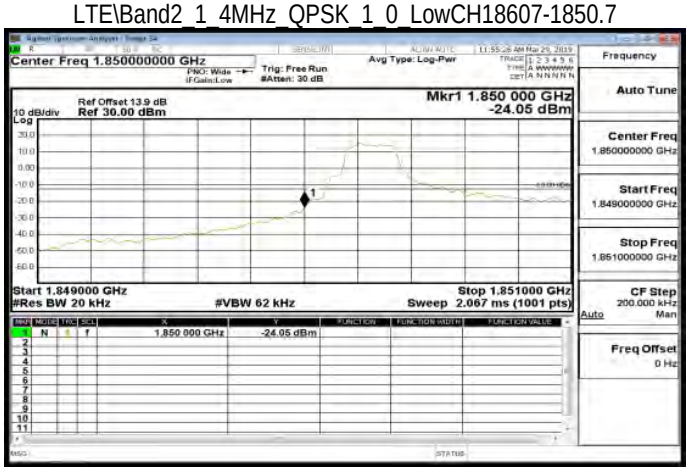
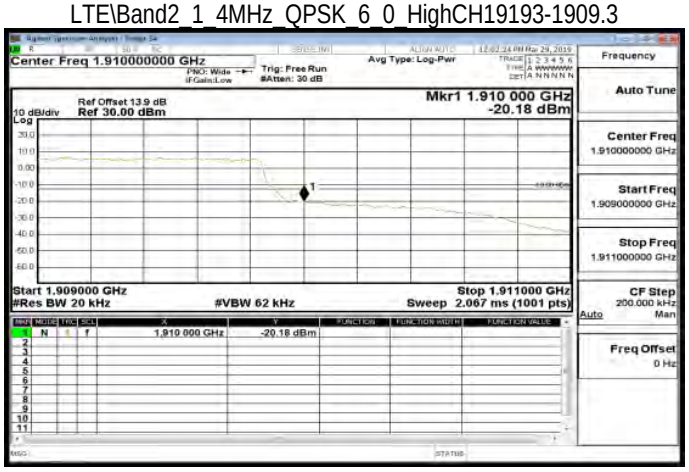
LTE\Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



LTE\Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



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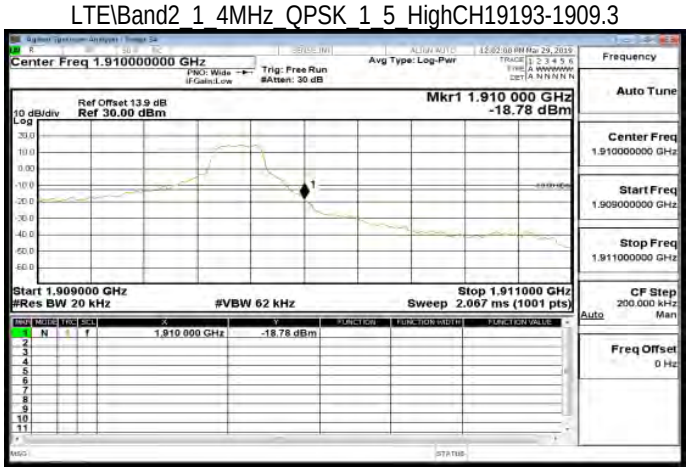
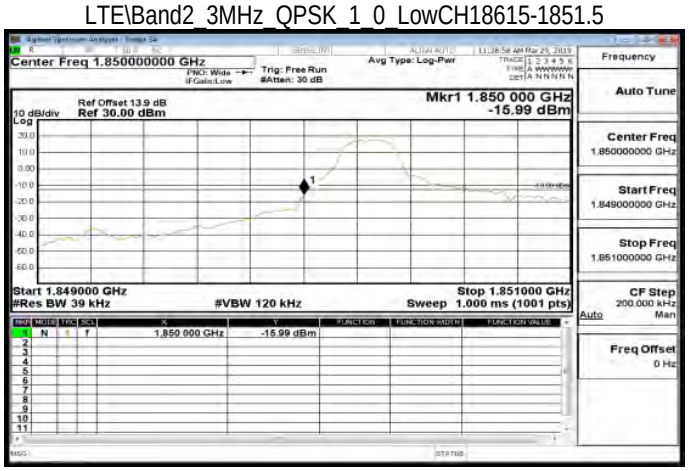


LTE\Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



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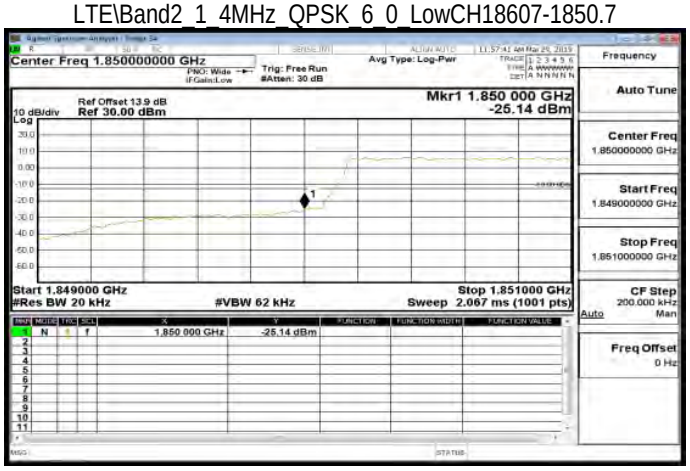
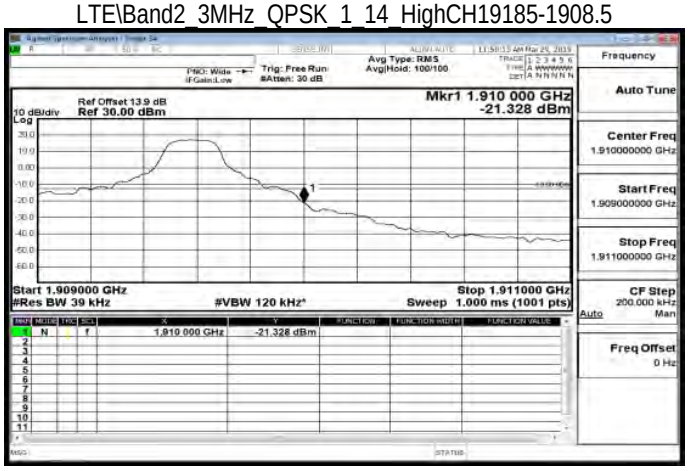


LTE\Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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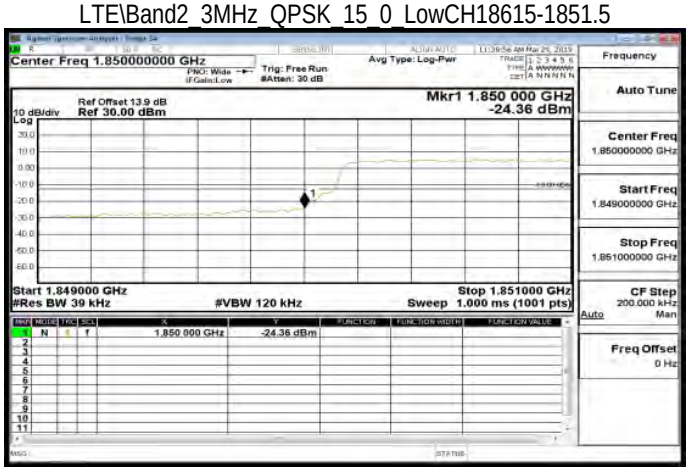
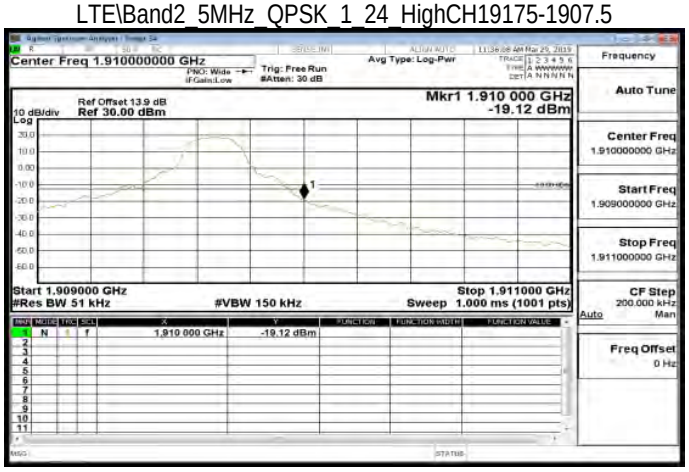
LTE\Band2_3MHz_QPSK_15_0_LowCH18615-1851.5



LTE\Band2_5MHz_QPSK_1_24_HighCH19175-1907.5



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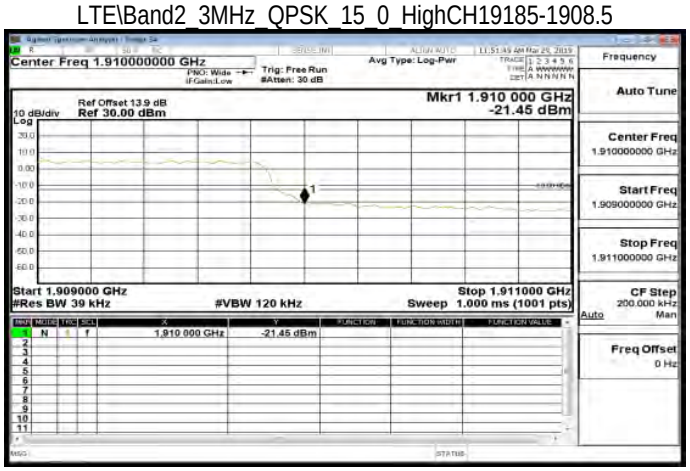

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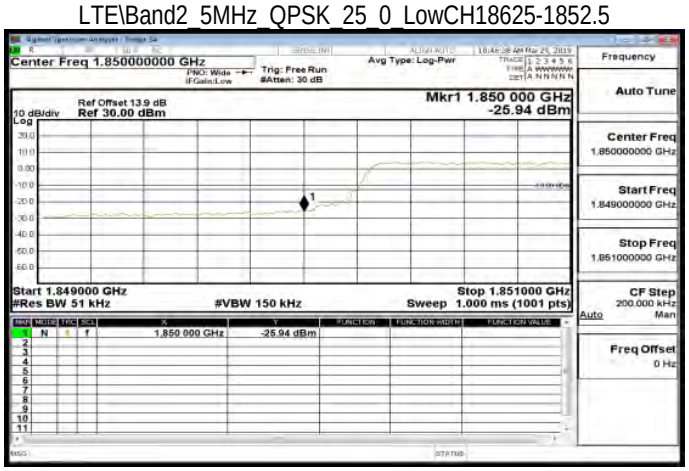
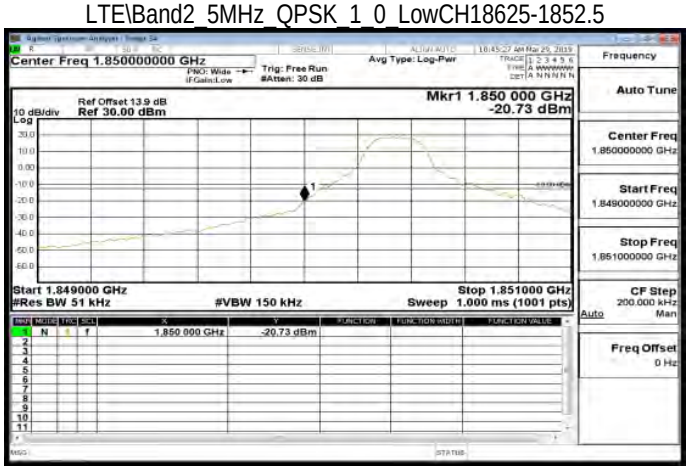
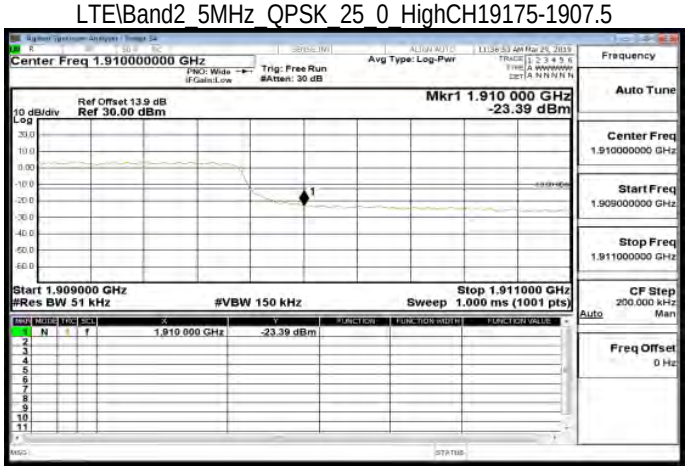


LTE\Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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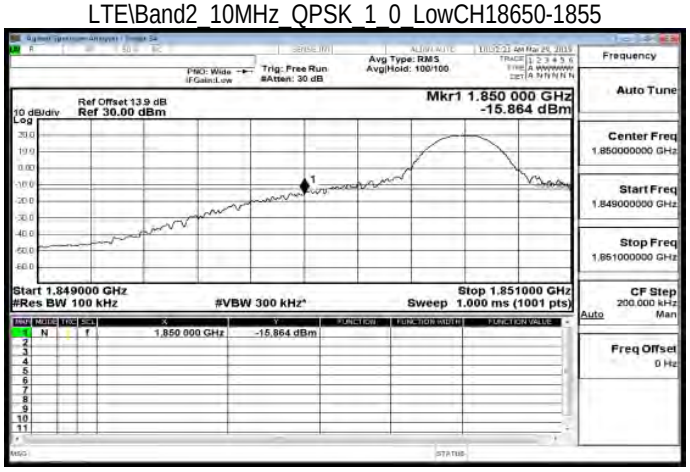
LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855



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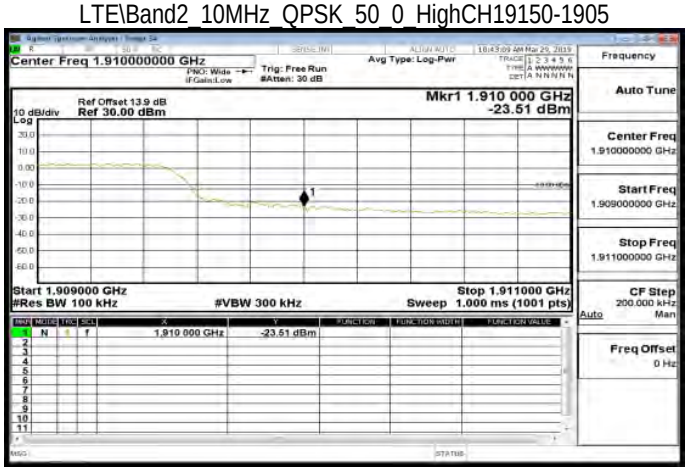

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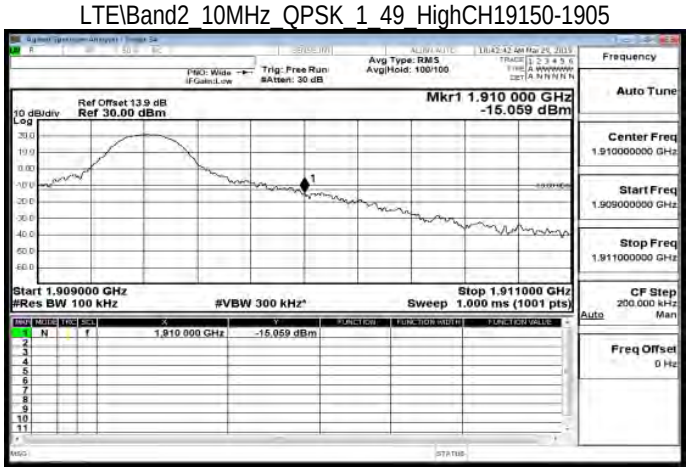
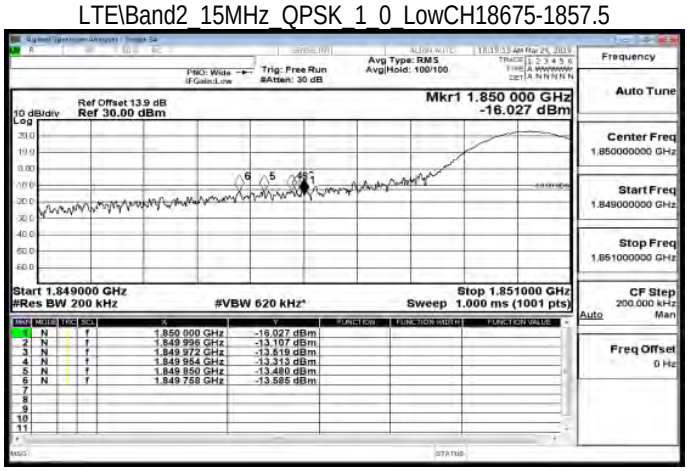


LTE\Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



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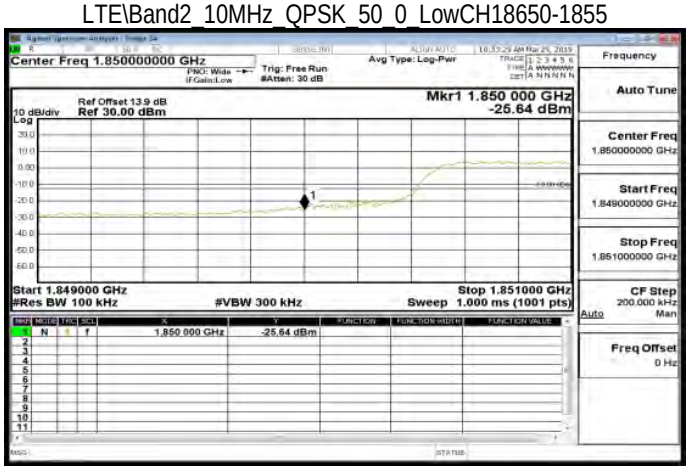

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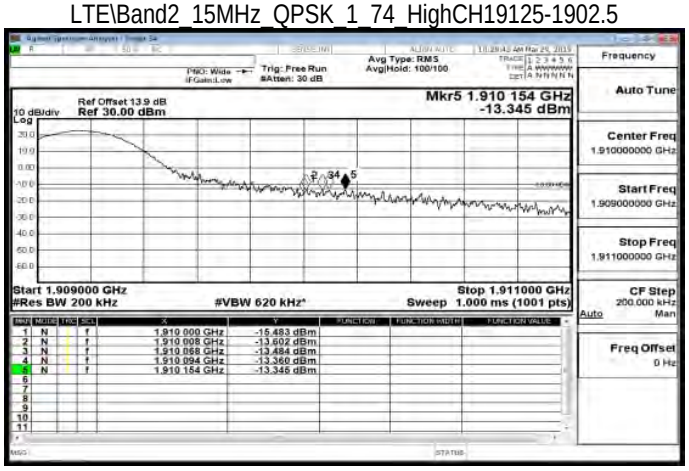

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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