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Appendix B: 802.11ax Test Plot

FCC ID
A3LSMX808U

REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	November 24, 2021	Initial Release
1	December 08, 2021	On the Page 5, HE 160 Duty Plot revised.
2	December 13, 2021	On the Page 42-43, Frequency title revised.

Note:

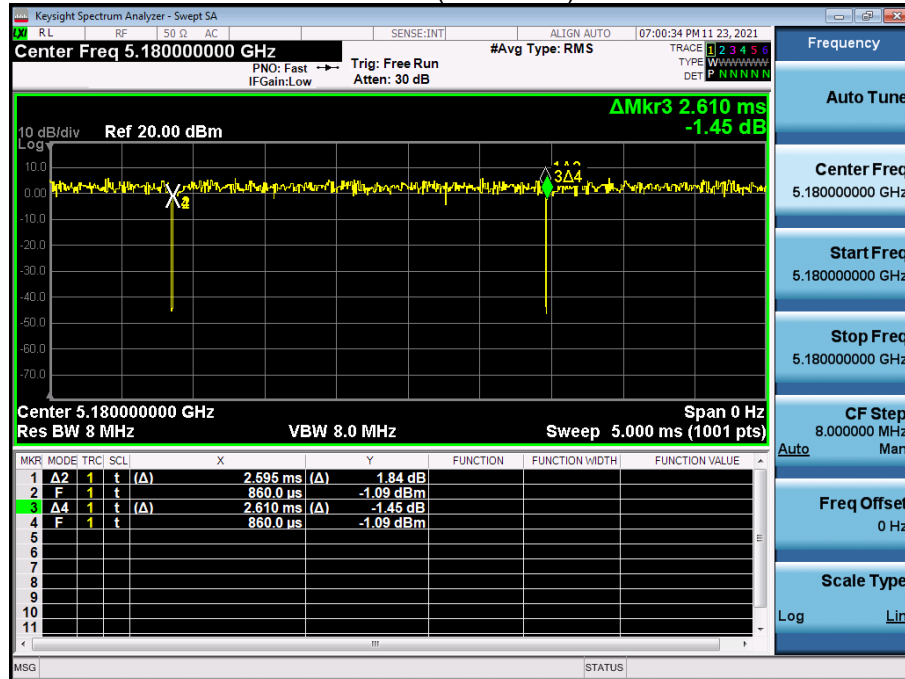
In order to simplify the report, attached plots were only the most lowest datarate.

1. Duty Cycle

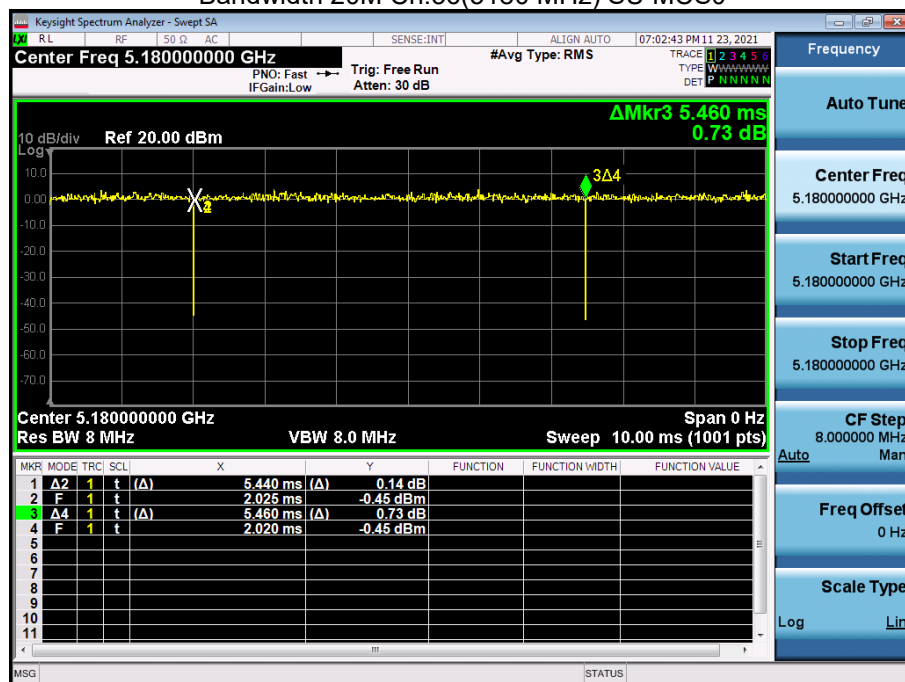
Note:

1. Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$. where, Duty Cycle = $T_{\text{on}} / T_{\text{total}}$
2. In order to simplify the report, attached plots were only the most lowest datarate.

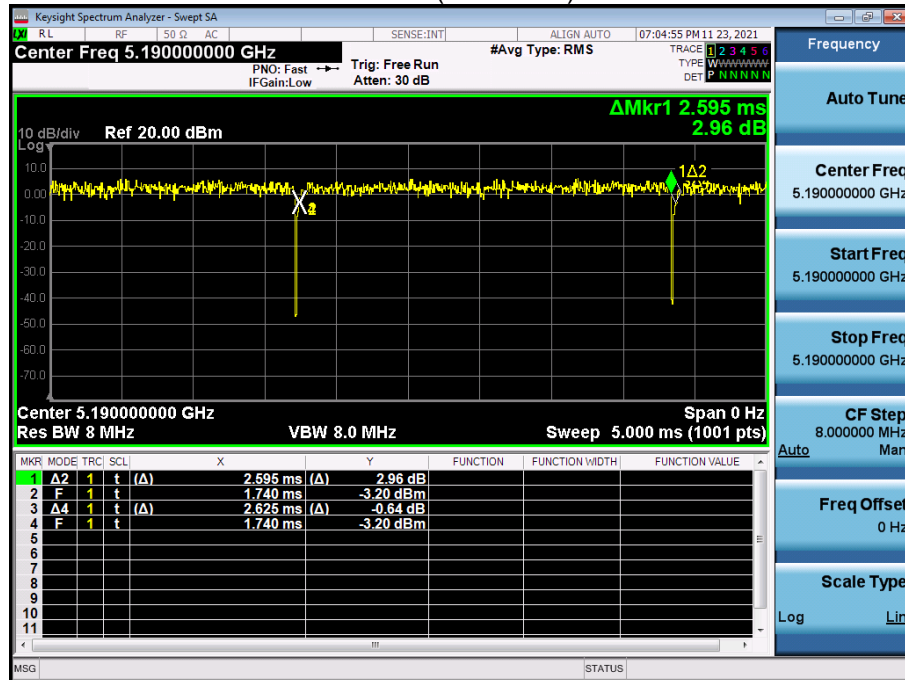
Bandwidth 20M Ch.36(5180 MHz) 26Tone MCS0



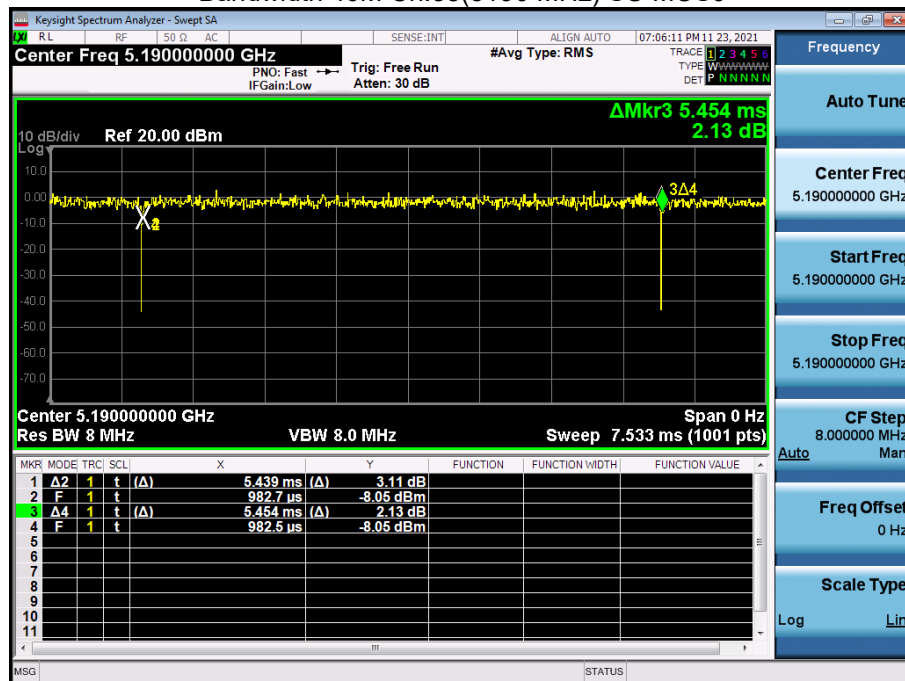
Bandwidth 20M Ch.36(5180 MHz) SU MCS0



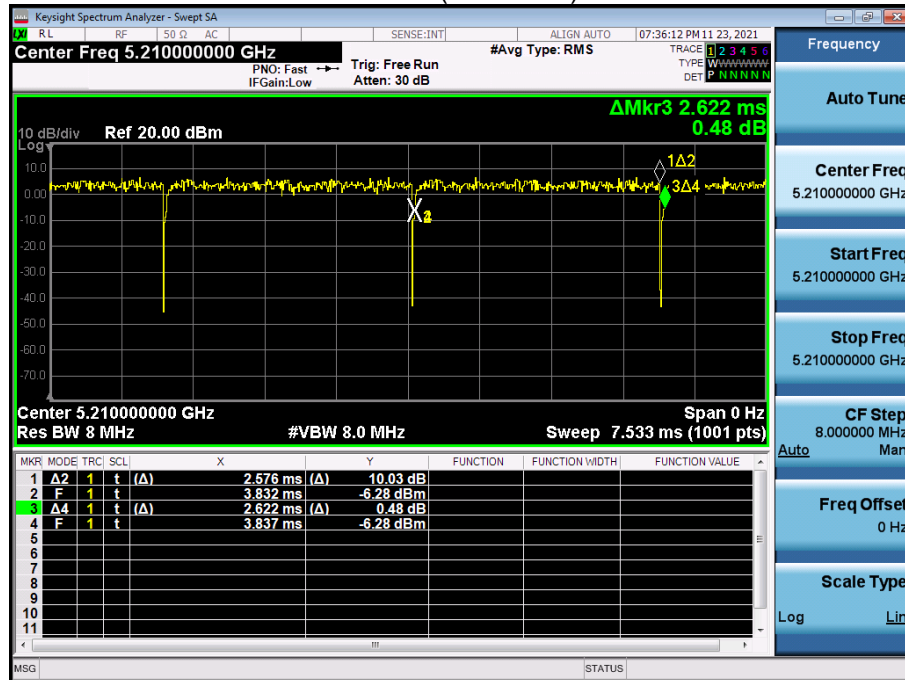
Bandwidth 40M Ch.38(5190 MHz) 26Tone MCS0



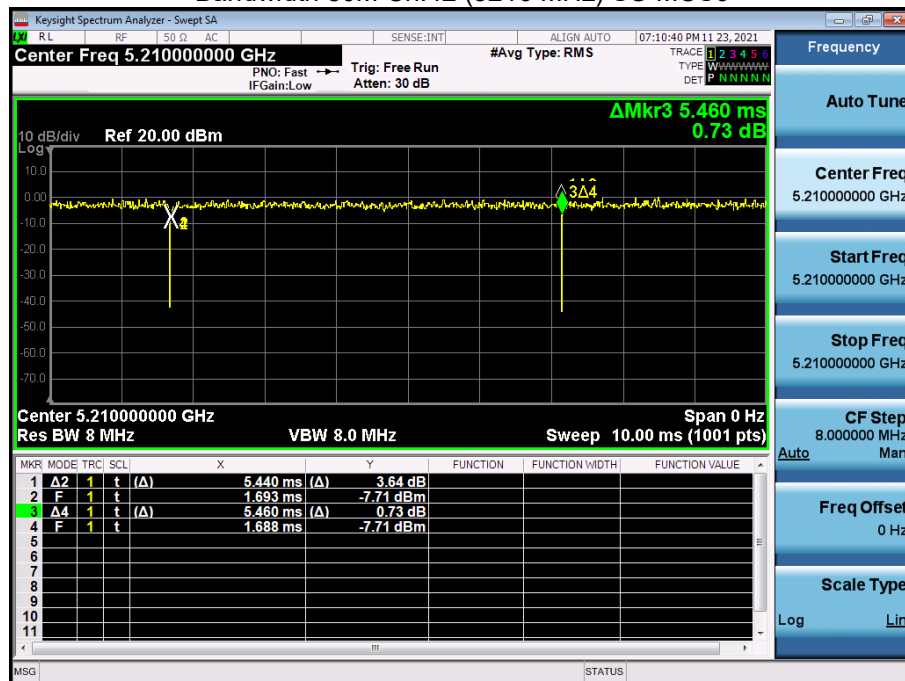
Bandwidth 40M Ch.38(5190 MHz) SU MCS0



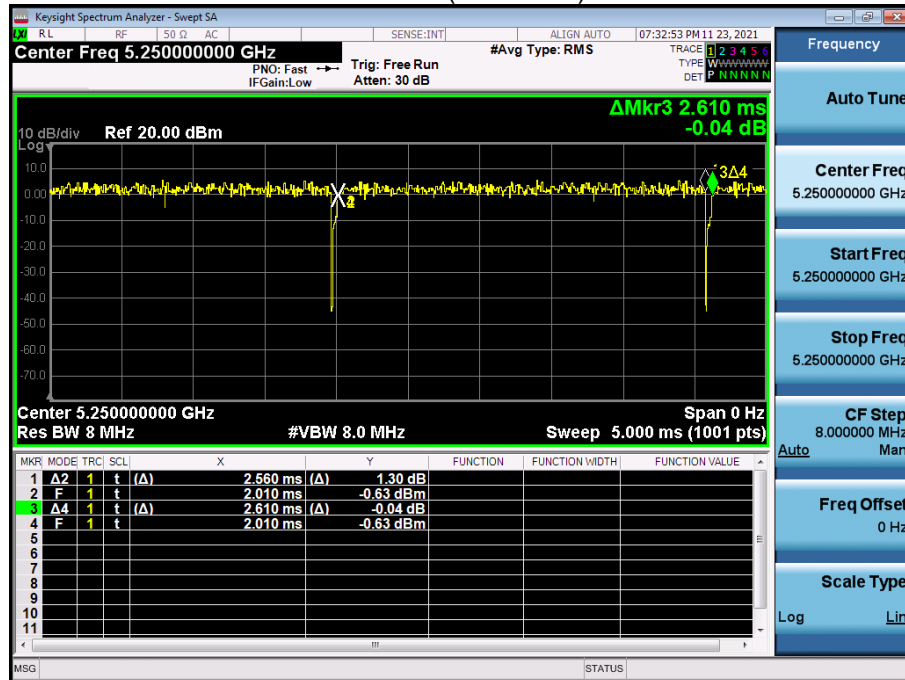
Bandwidth 80M Ch.42 (5210 MHz) 26Tone MCS0



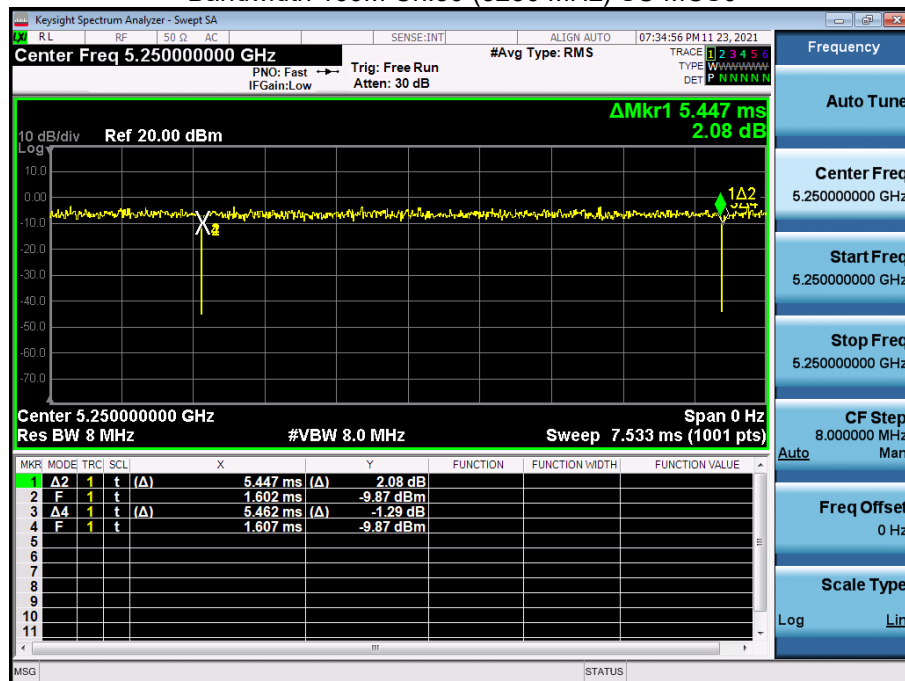
Bandwidth 80M Ch.42 (5210 MHz) SU MCS0



Bandwidth 160M Ch.50 (5250 MHz) 26Tone MCS0



Bandwidth 160M Ch.50 (5250 MHz) SU MCS0

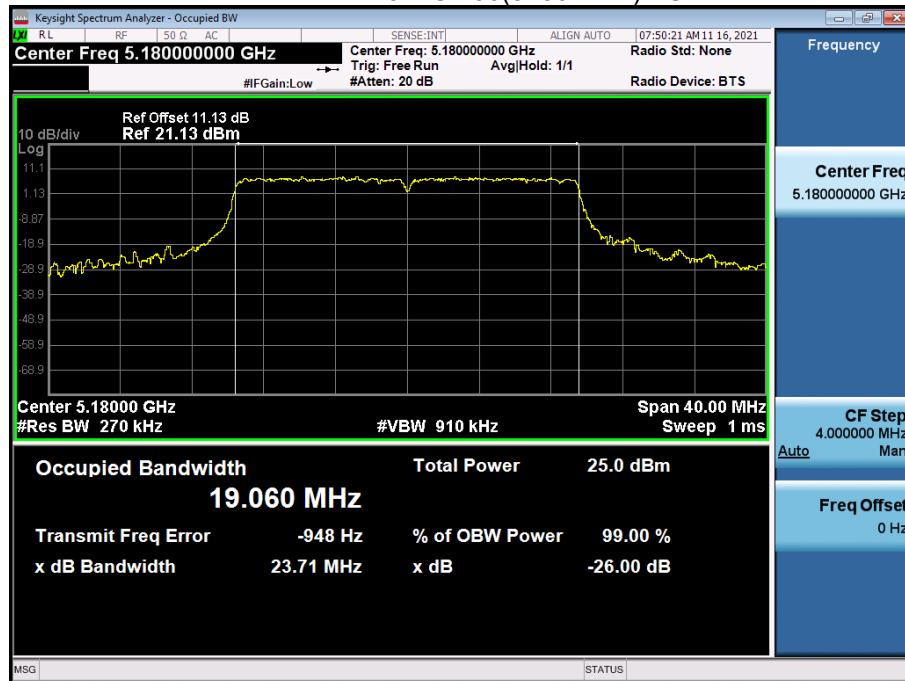


2. 26 dB Bandwidth

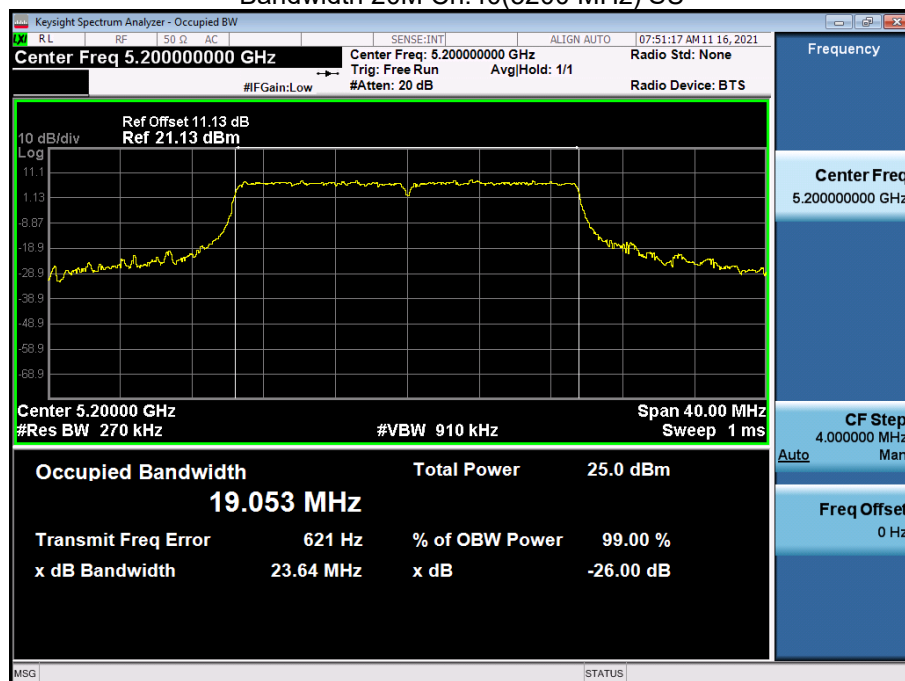
Note:

1. In order to simplify the report, attached plots were only MIMO Ant.2 (Worst Case: Ant.2).
2. In order to simplify the report, attached plots were only the most wide channel.

Bandwidth 20M Ch.36(5180 MHz) SU



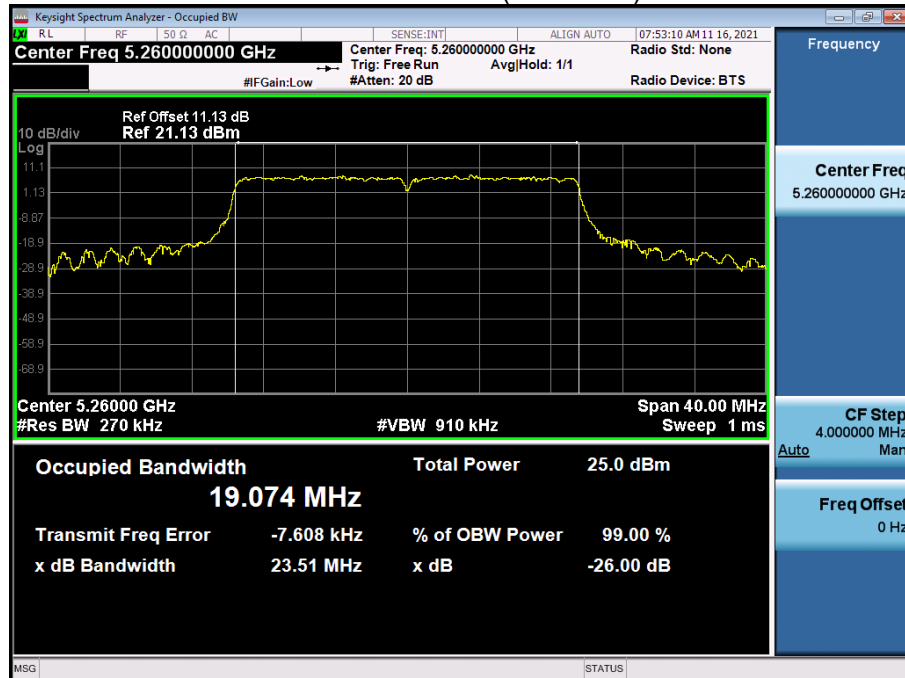
Bandwidth 20M Ch.40(5200 MHz) SU



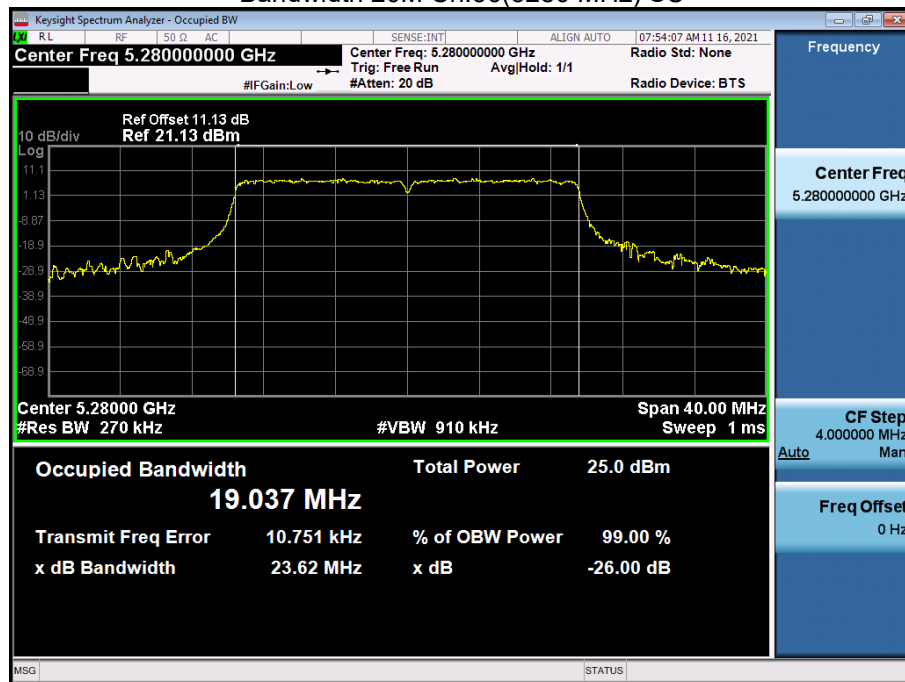
Bandwidth 20M Ch.48(5240 MHz) SU



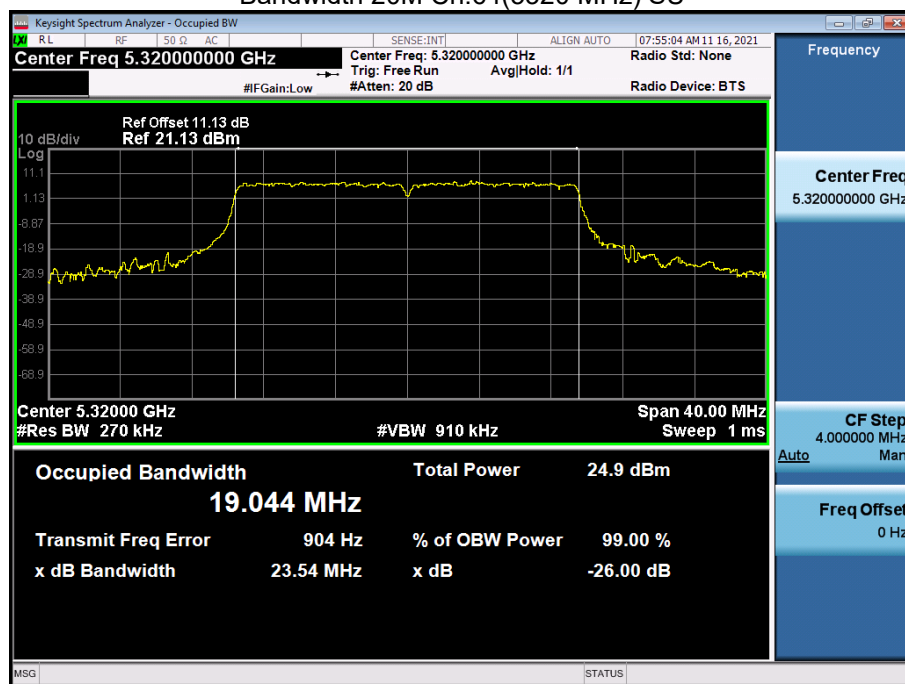
Bandwidth 20M Ch.52(5260 MHz) SU



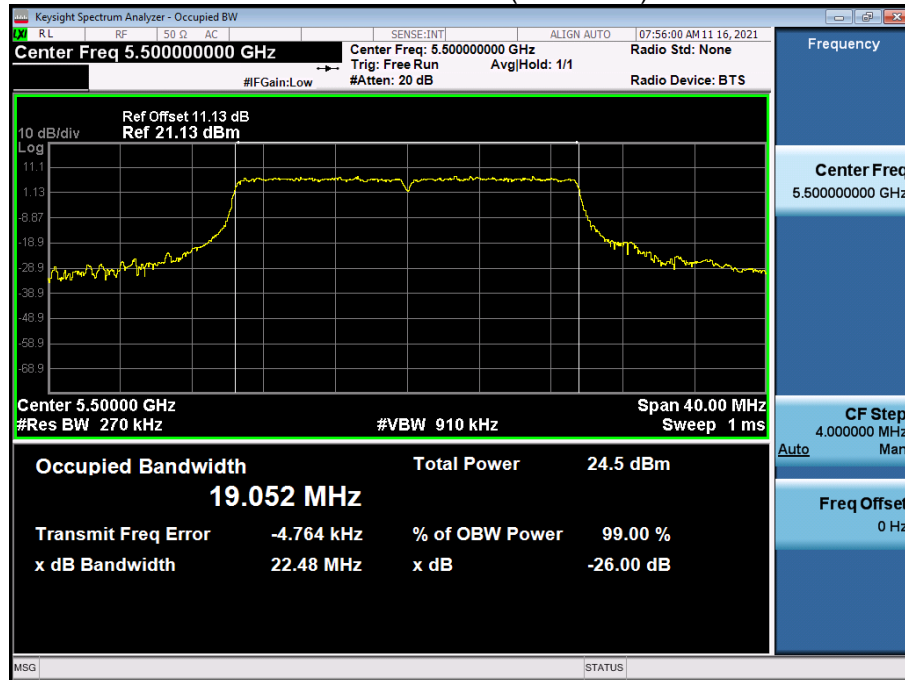
Bandwidth 20M Ch.56(5280 MHz) SU



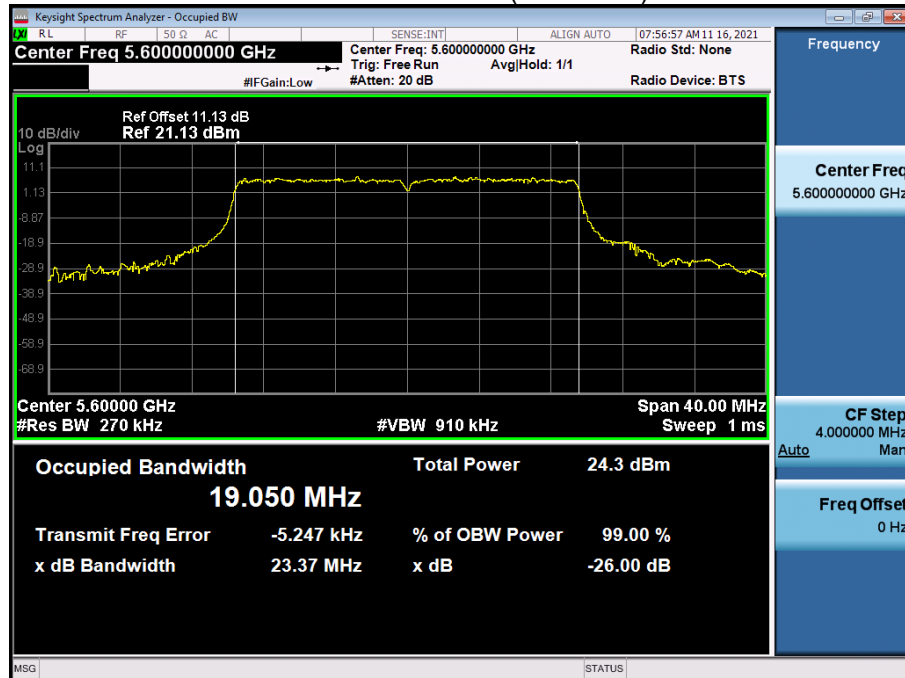
Bandwidth 20M Ch.64(5320 MHz) SU



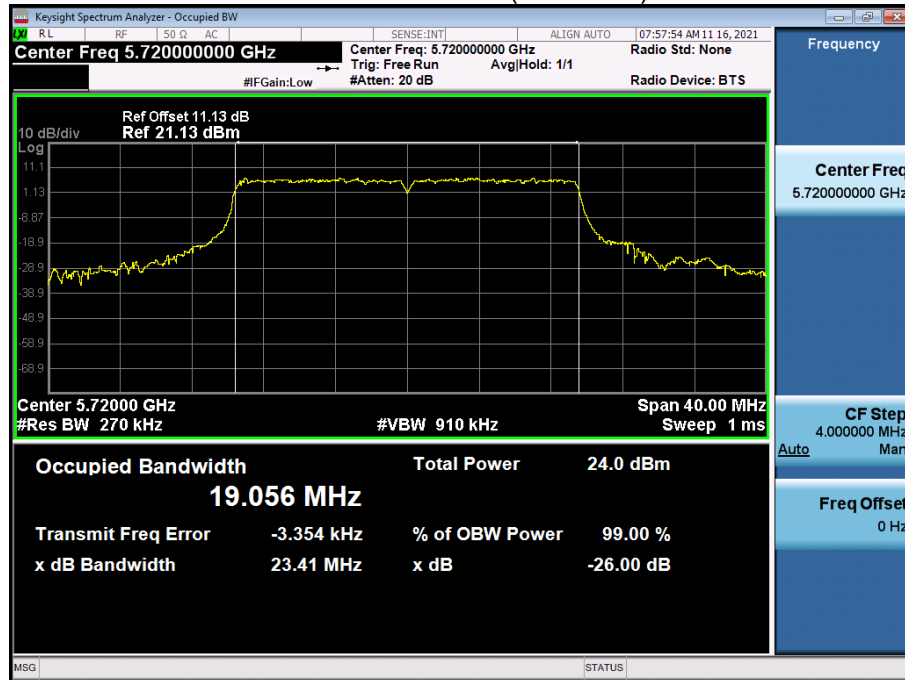
Bandwidth 20M Ch.100(5500 MHz) SU



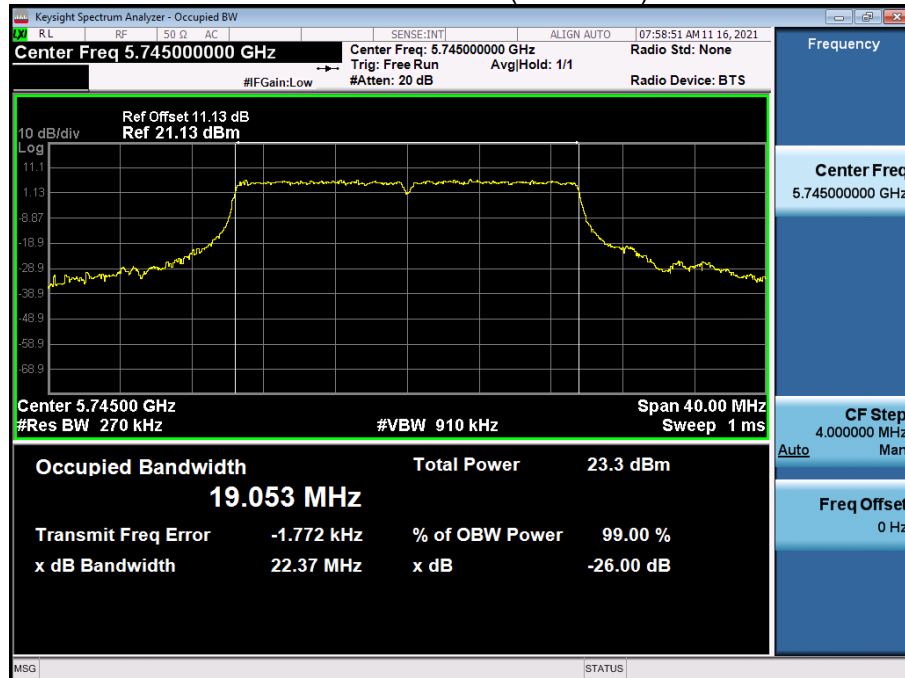
Bandwidth 20M Ch.120(5600 MHz) SU



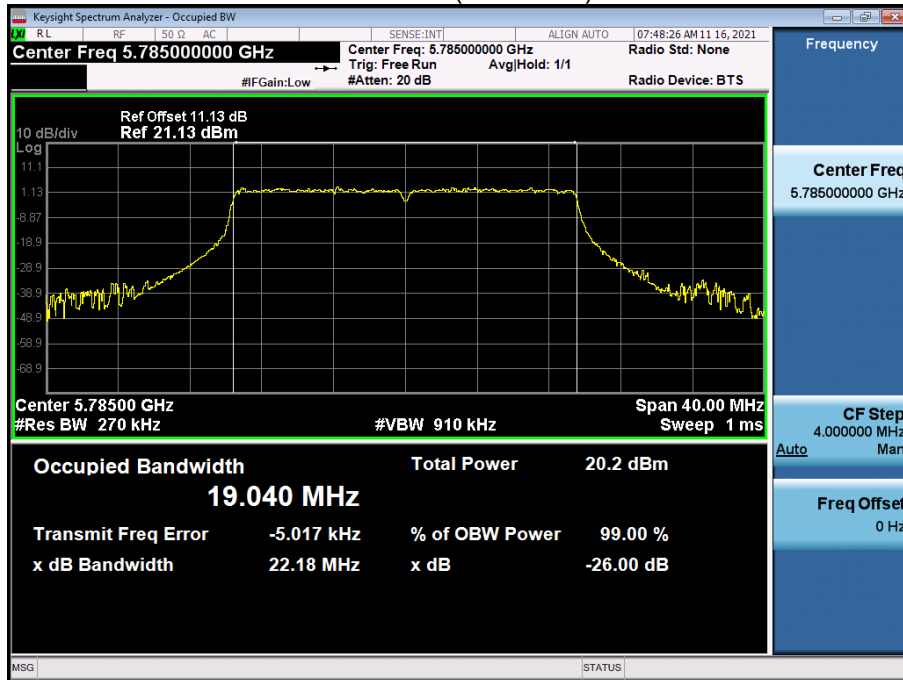
Bandwidth 20M Ch.144(5720 MHz) SU



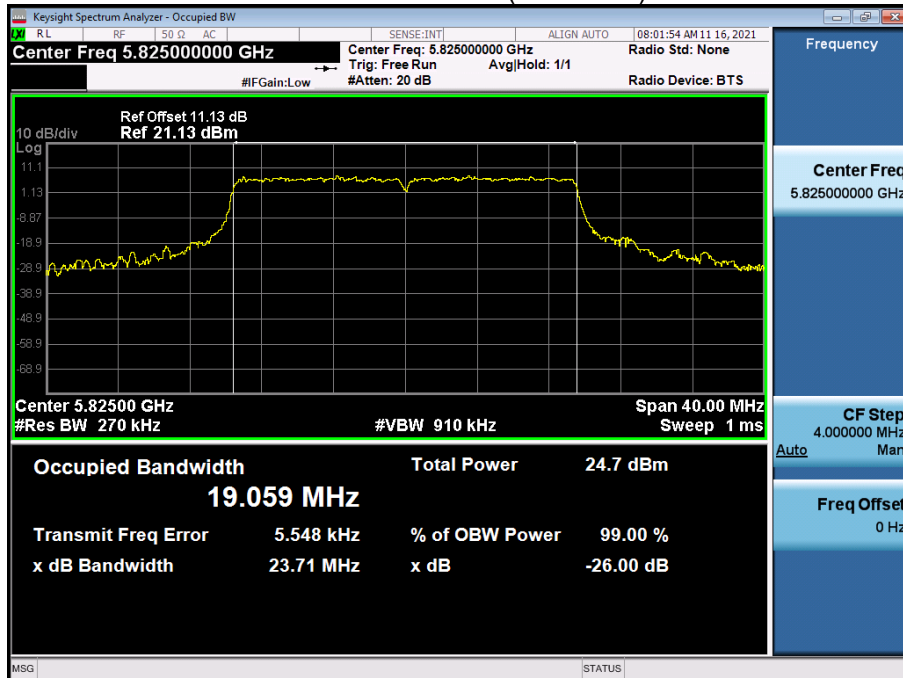
Bandwidth 20M Ch.149(5745 MHz) SU



Bandwidth 20M Ch.157(5785 MHz) 242T RU 61



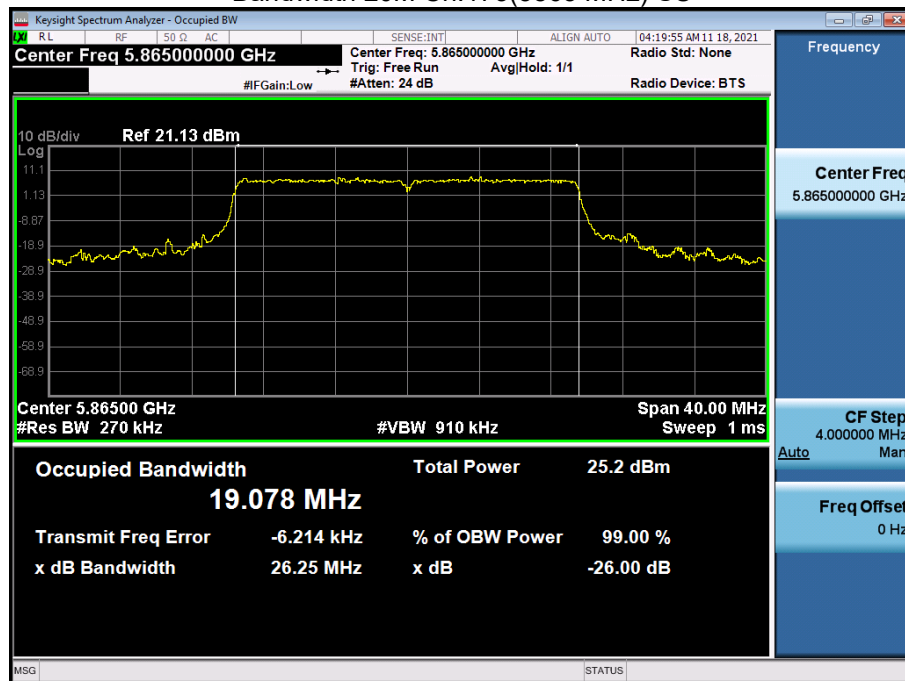
Bandwidth 20M Ch.165(5825 MHz) SU



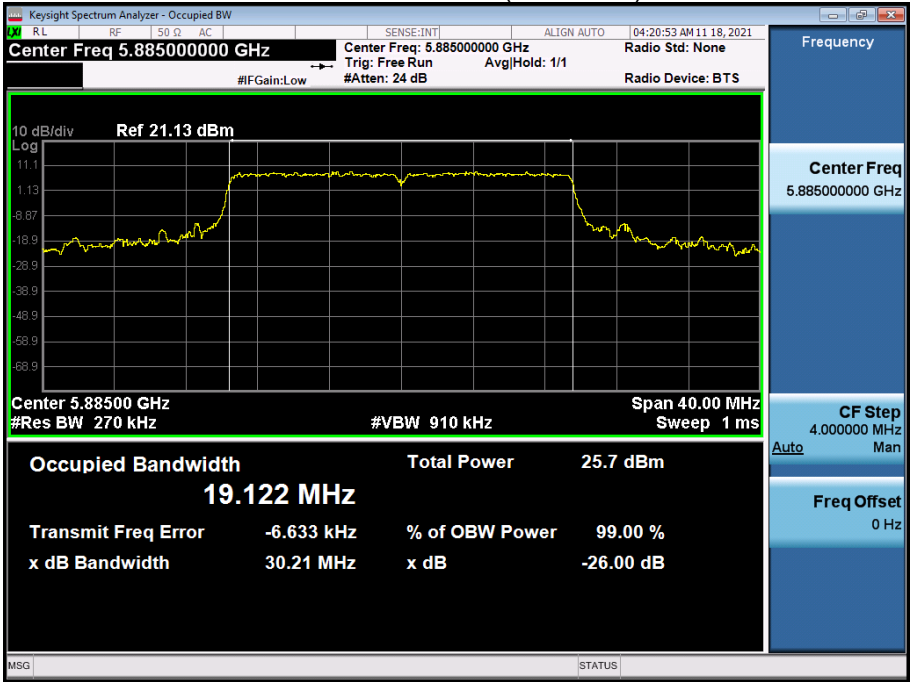
Bandwidth 20M Ch.169(5845 MHz) SU



Bandwidth 20M Ch.173(5865 MHz) SU



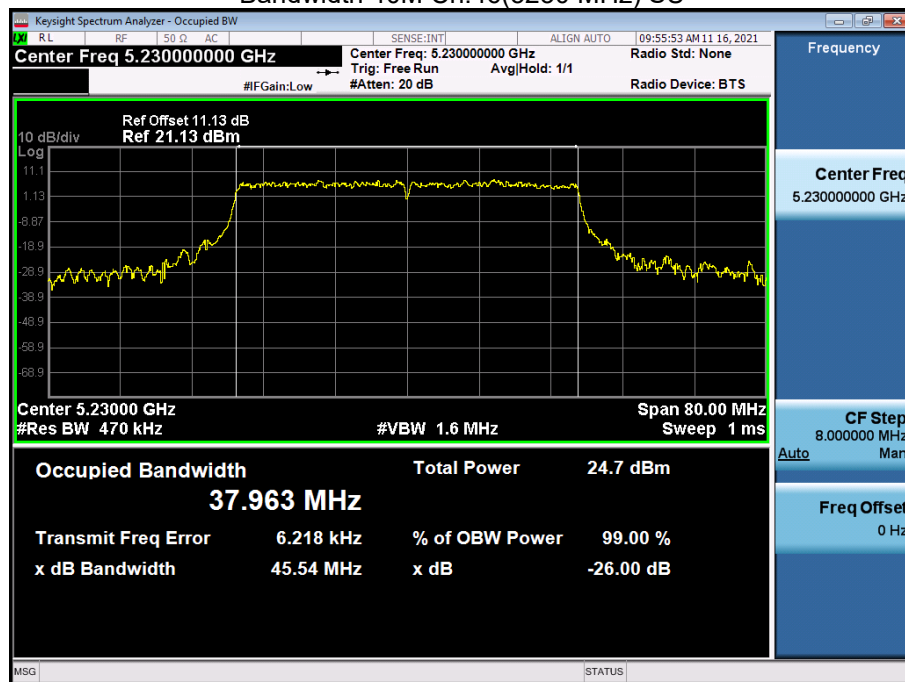
Bandwidth 20M Ch.177(5885 MHz) SU



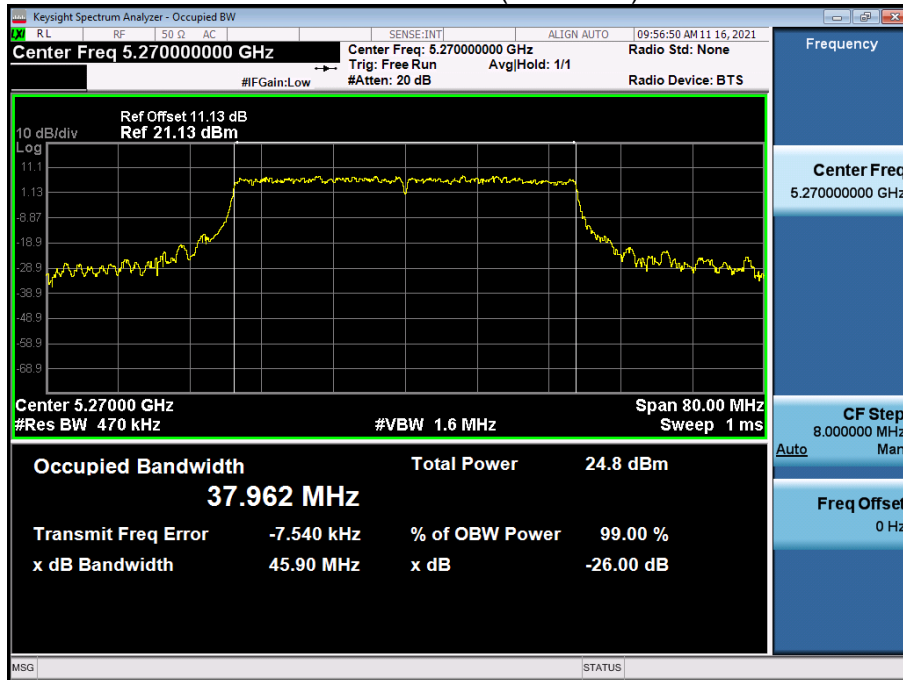
Bandwidth 40M Ch.38(5190 MHz) SU



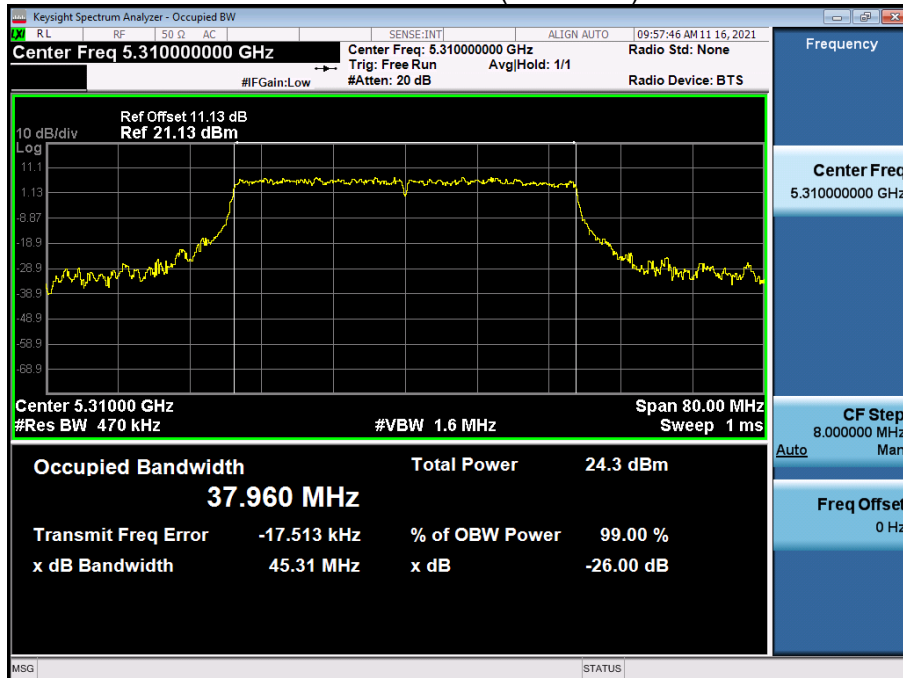
Bandwidth 40M Ch.46(5230 MHz) SU



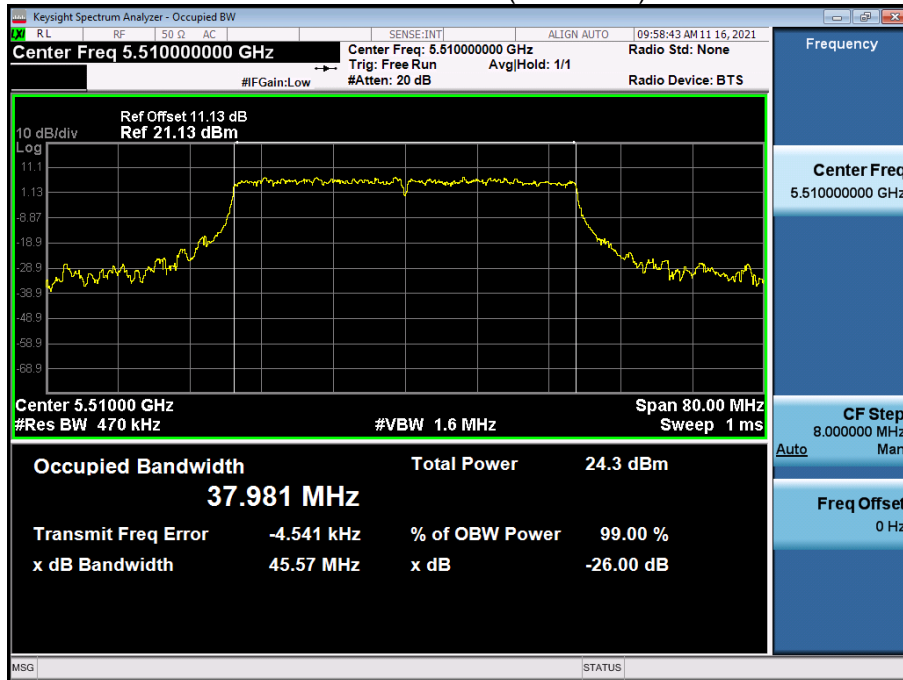
Bandwidth 40M Ch.54(5270 MHz) SU



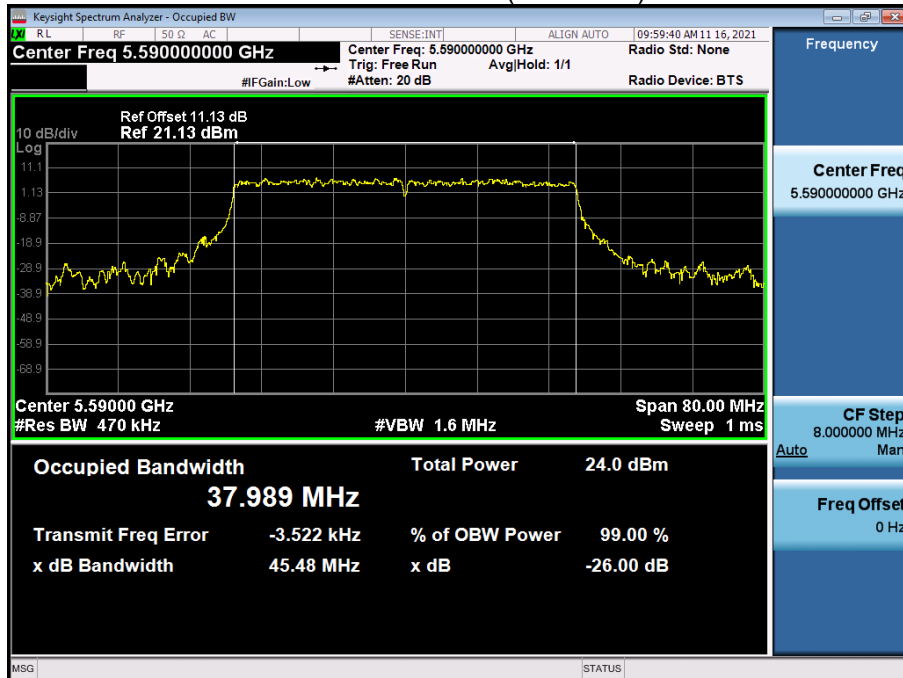
Bandwidth 40M Ch.62(5310 MHz) SU



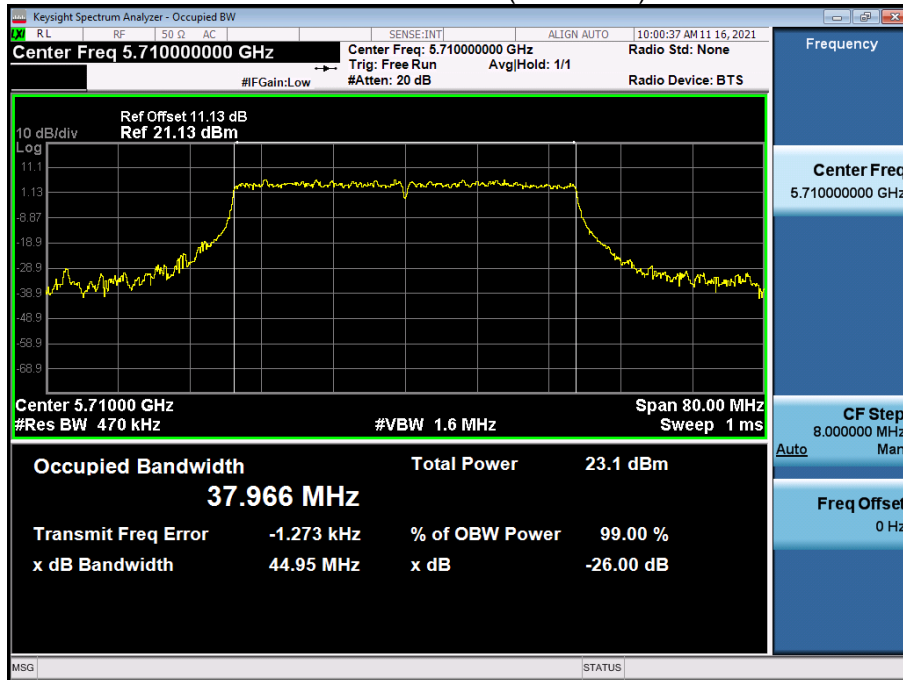
Bandwidth 40M Ch.102(5510 MHz) SU



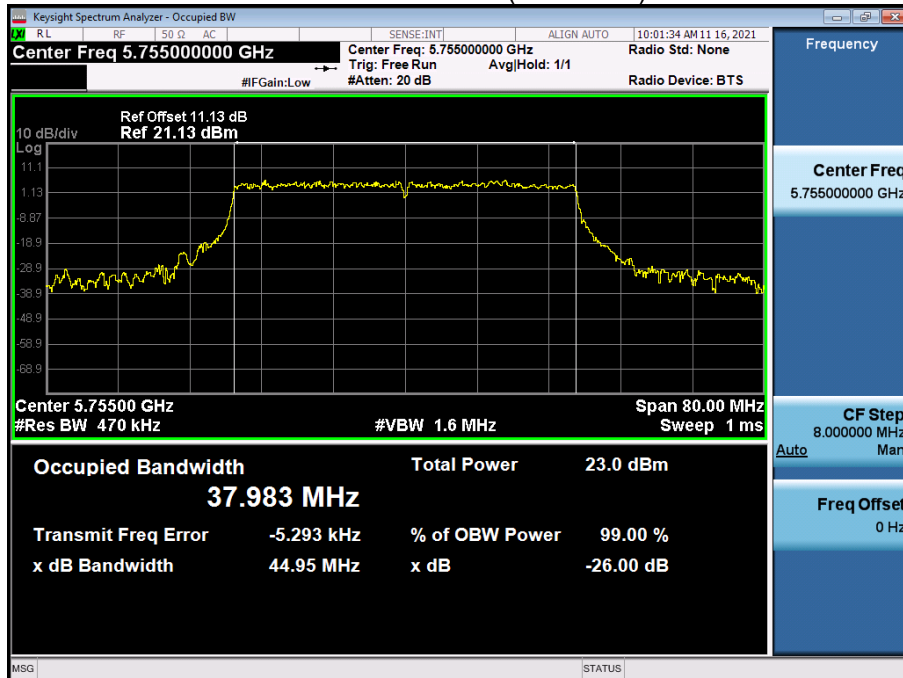
Bandwidth 40M Ch.118(5590 MHz) SU



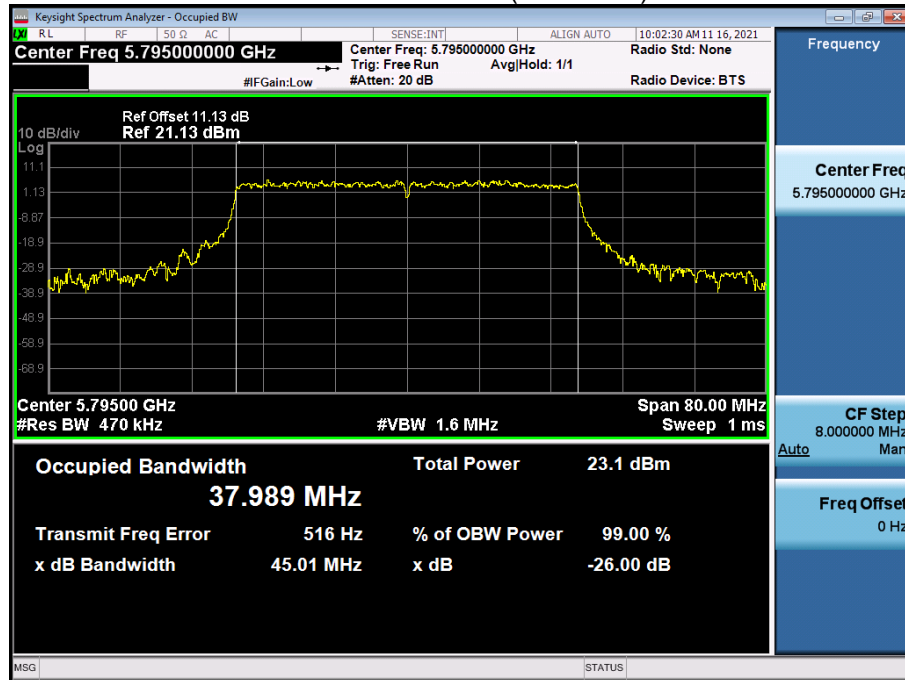
Bandwidth 40M Ch.142(5710 MHz) SU



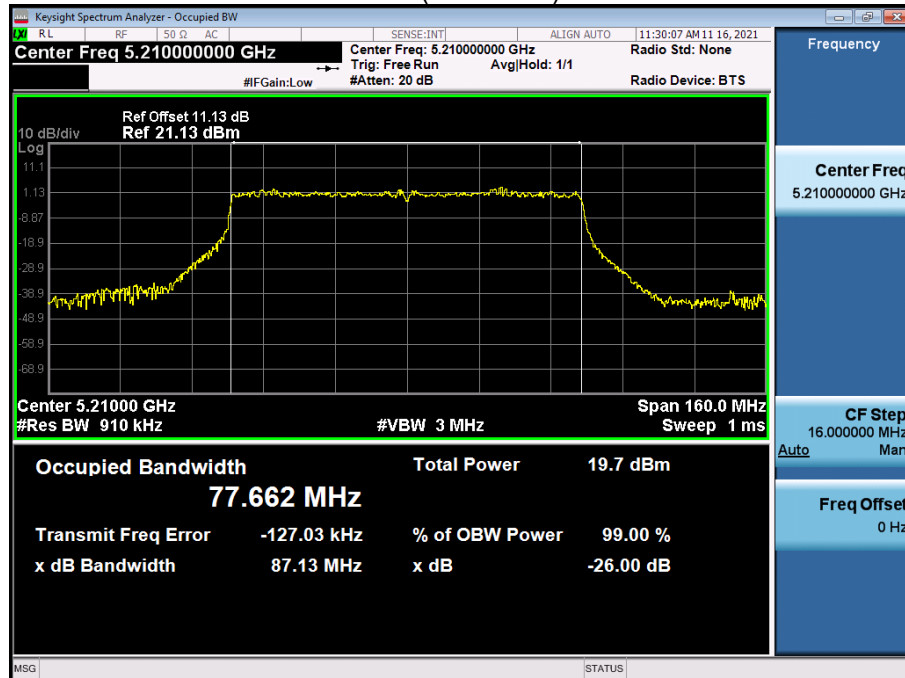
Bandwidth 40M Ch.151(5755 MHz) SU



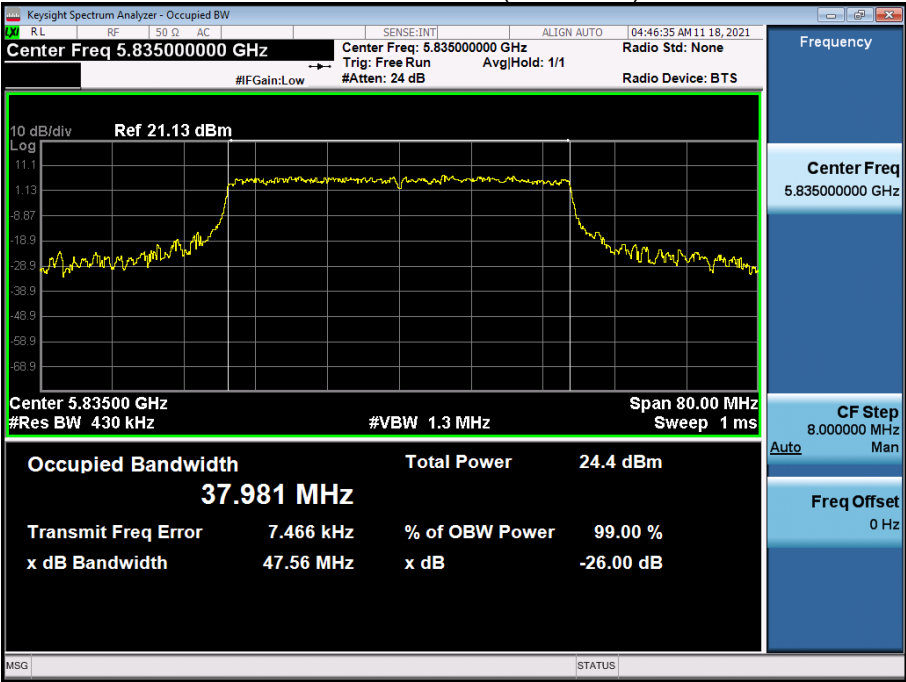
Bandwidth 40M Ch.159(5795 MHz) SU



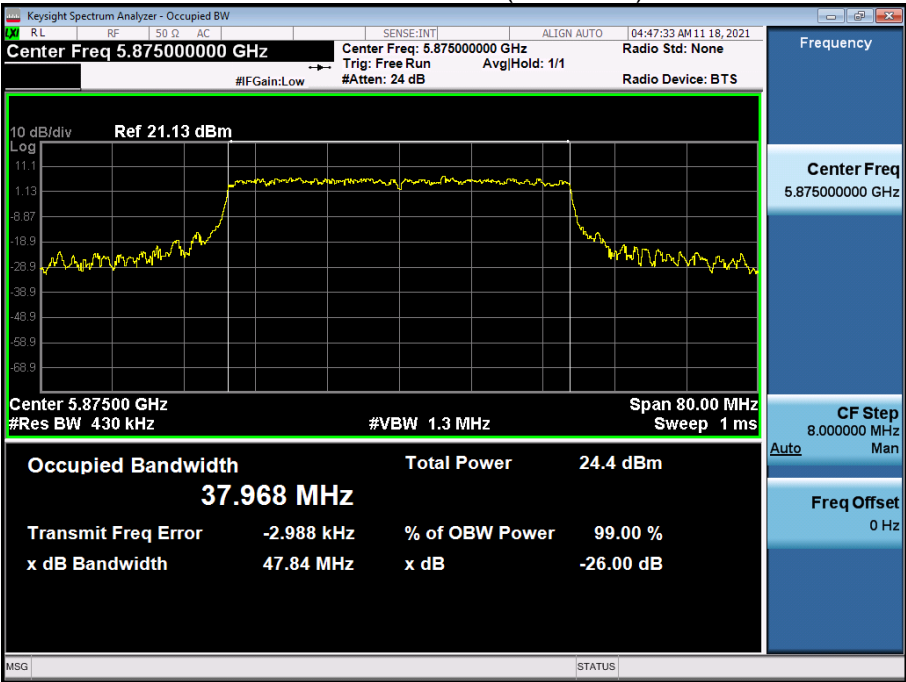
Bandwidth 80M Ch.42(5210 MHz) 996Tones RU 67



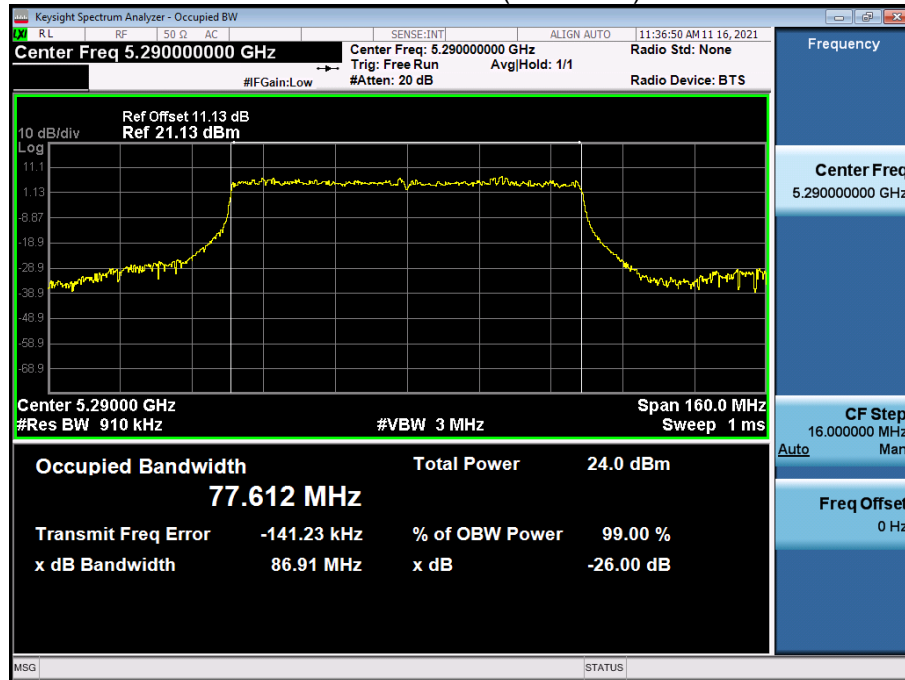
Bandwidth 40M Ch.167(5835 MHz) SU



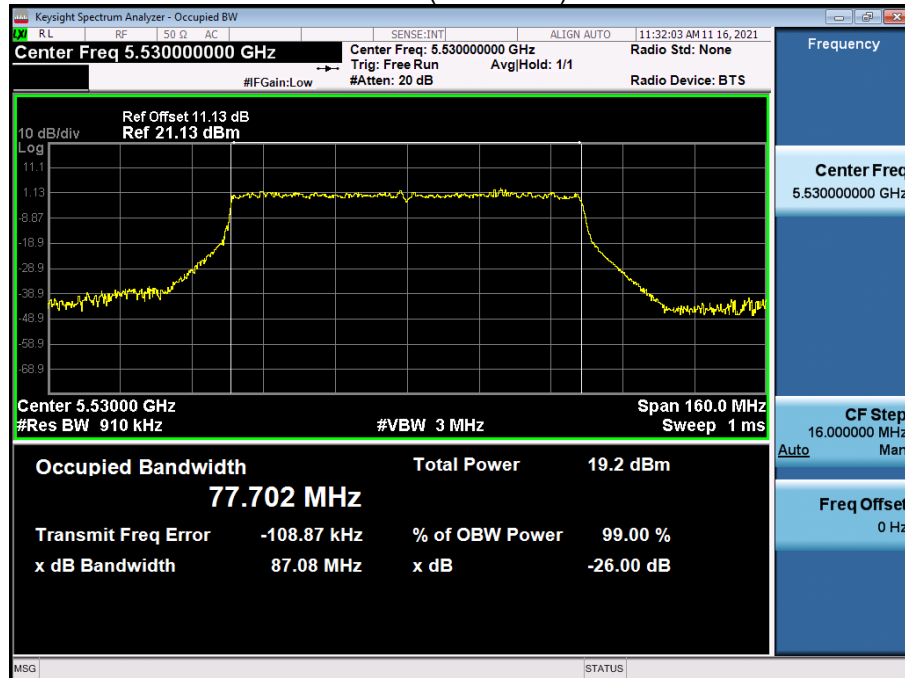
Bandwidth 40M Ch.175 (5875 MHz) SU



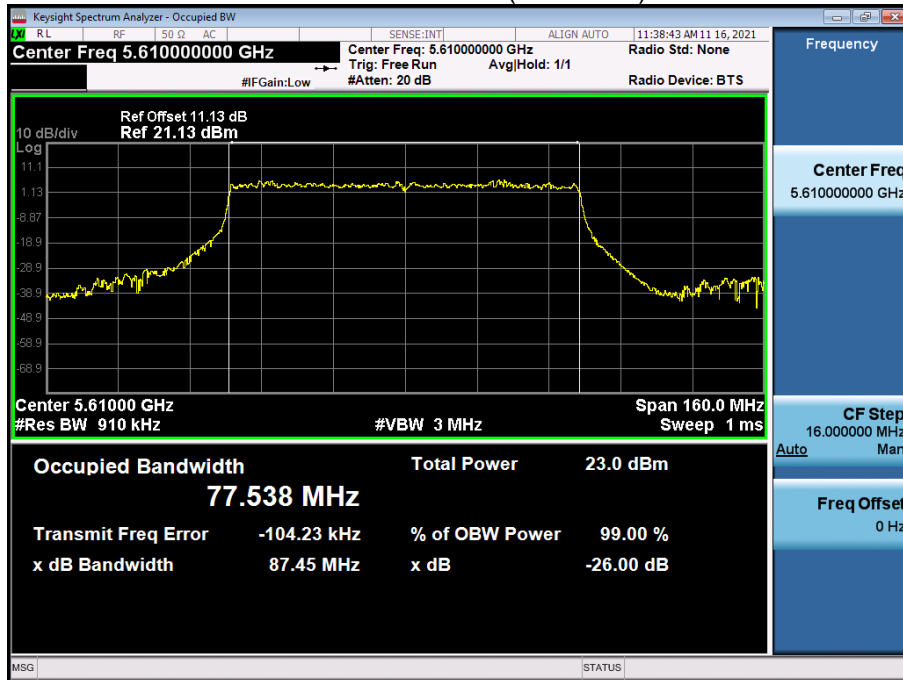
Bandwidth 80M Ch.58(5290 MHz) SU



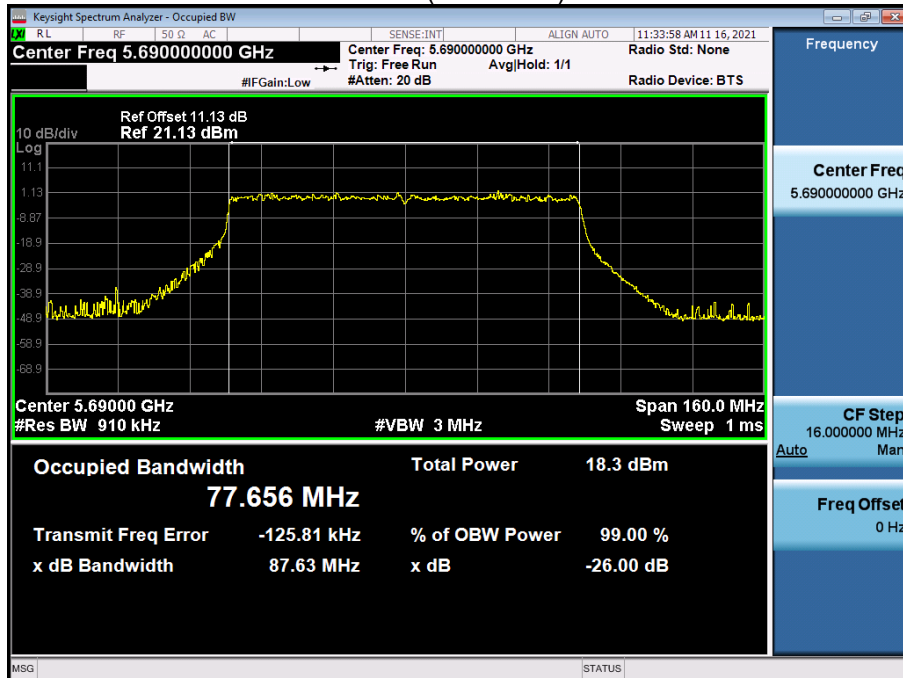
Bandwidth 80M Ch.106(5530 MHz) 996Tones RU 67



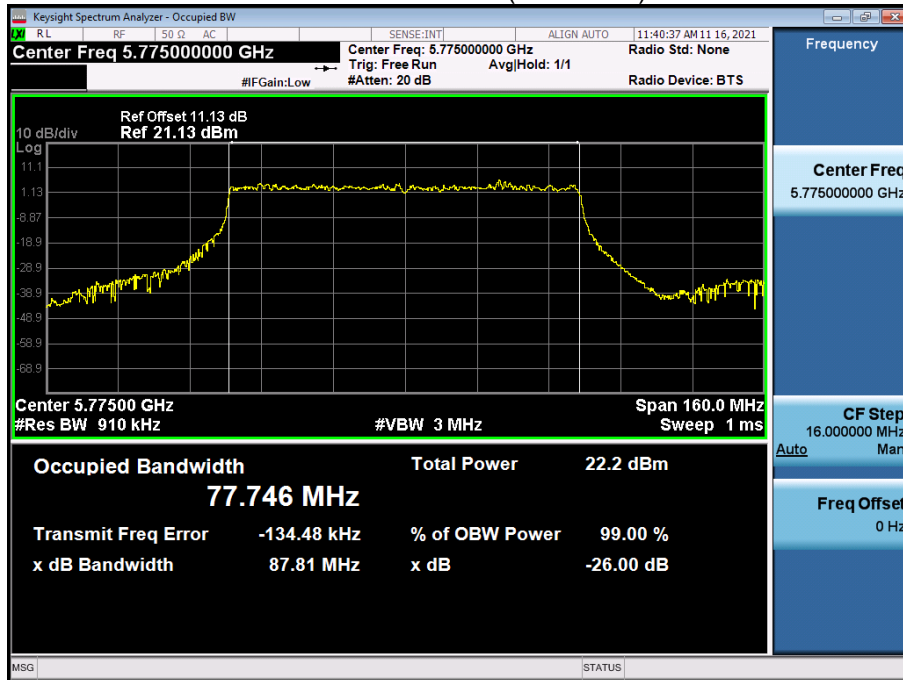
Bandwidth 80M Ch.122(5610 MHz) SU



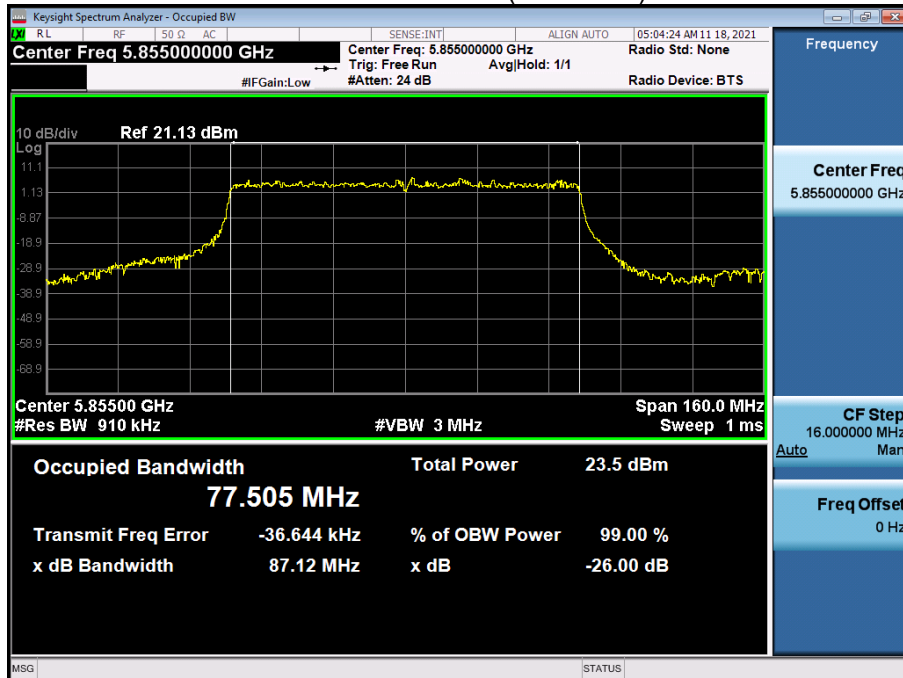
Bandwidth 80M Ch.138(5690 MHz) 996Tones RU 67



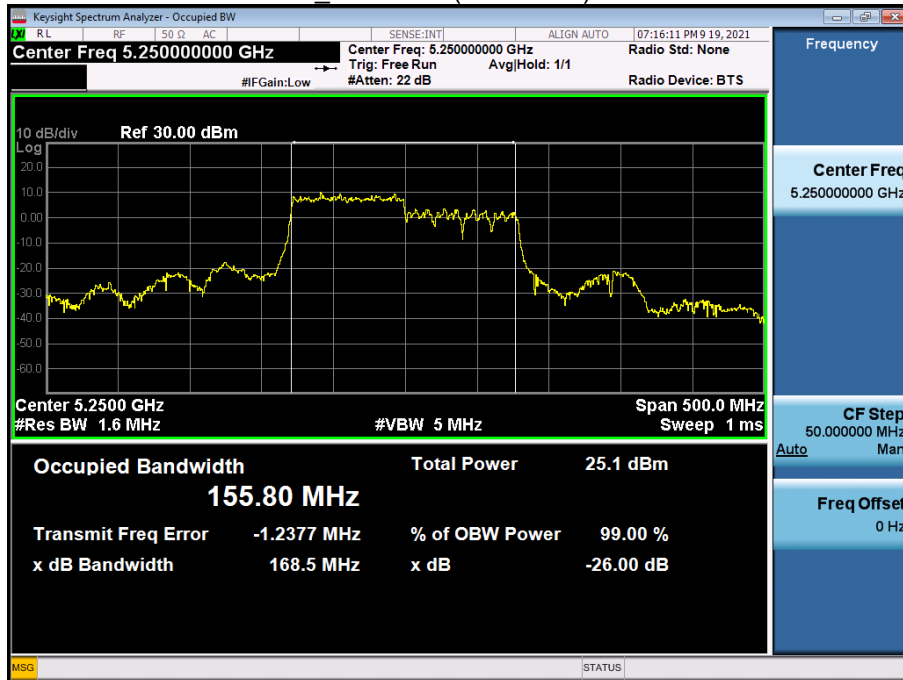
Bandwidth 80M Ch.155(5775 MHz) SU



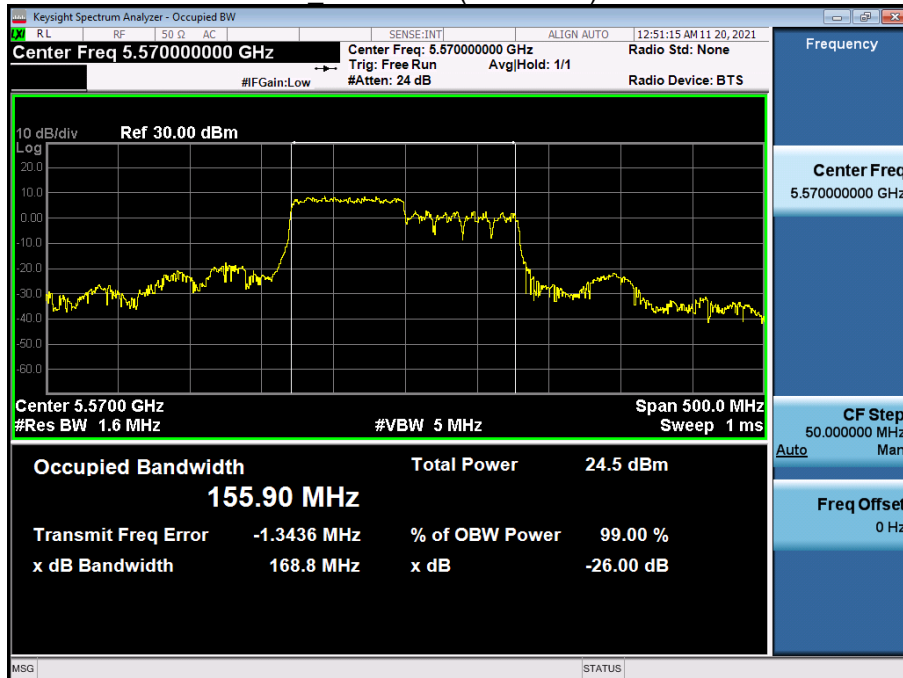
Bandwidth 80M Ch.171(5855 MHz) SU



Bandwidth 160M_80L Ch.50(5250 MHz) 996 Tones RU 67



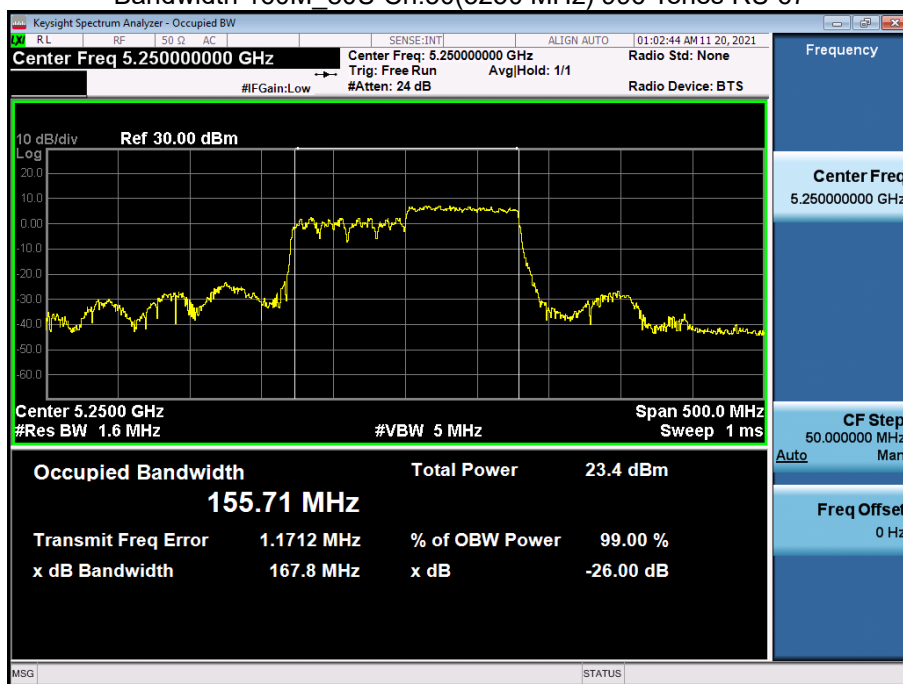
Bandwidth 160M_80L Ch.114(5570 MHz) 996 Tones RU 67



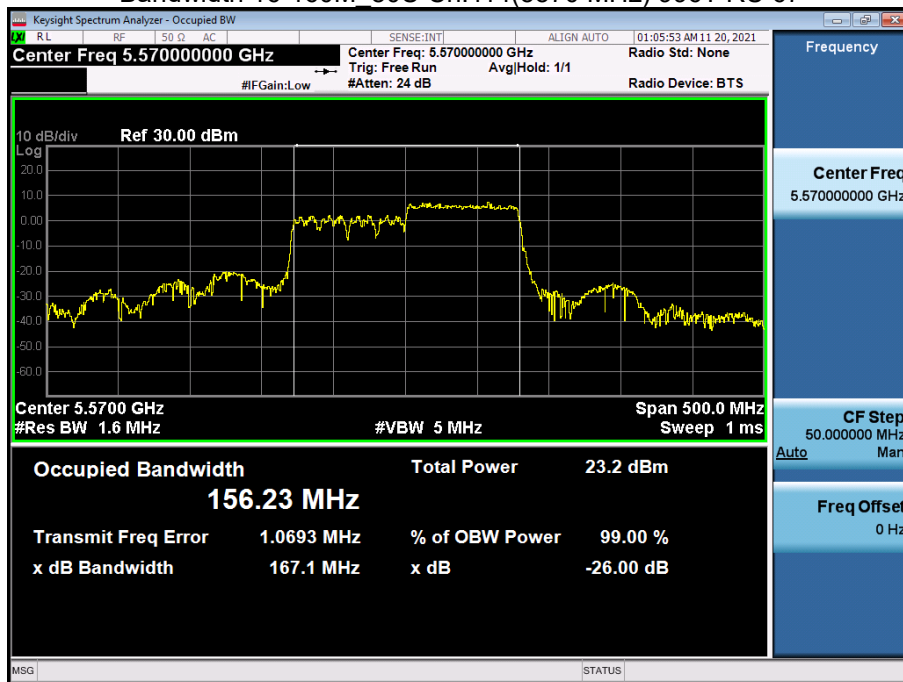
Bandwidth 160M 80L Ch.163(5815 MHz) 996 Tones RU 67



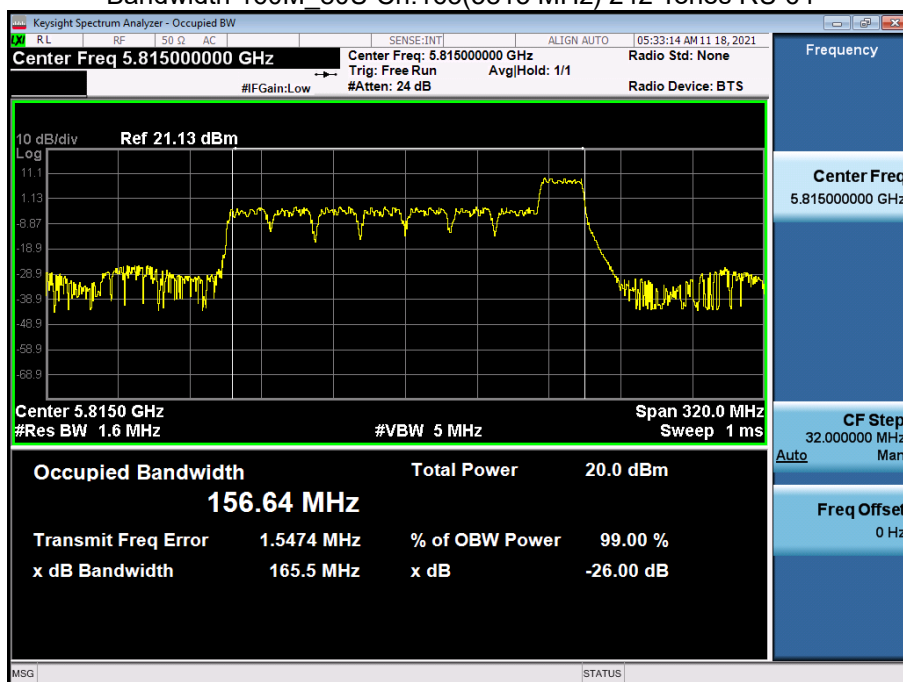
Bandwidth 160M 80U Ch.50(5250 MHz) 996 Tones RU 67



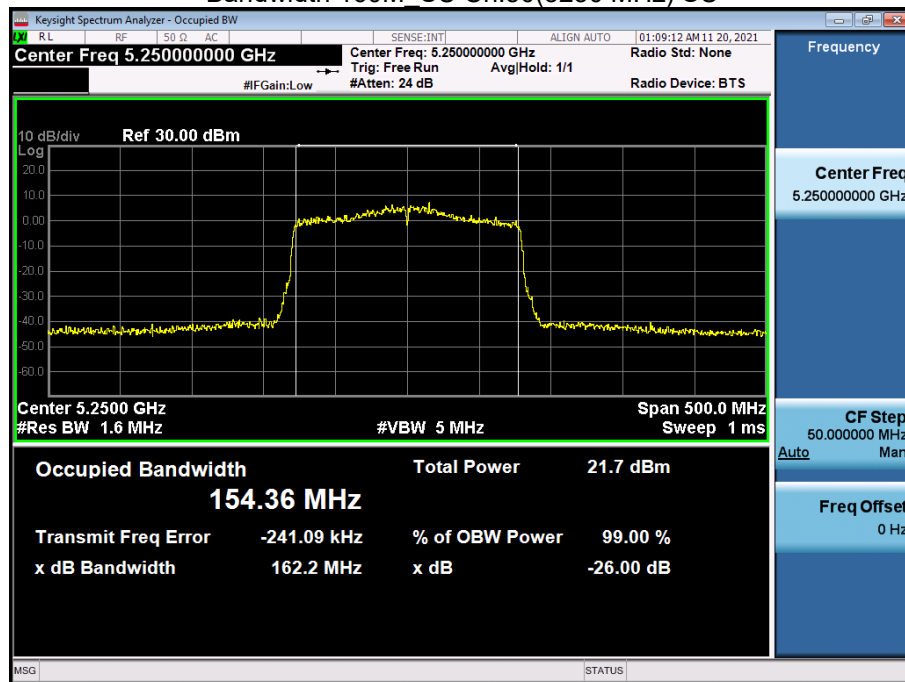
Bandwidth 16 160M 80U Ch.114(5570 MHz) 996T RU 67



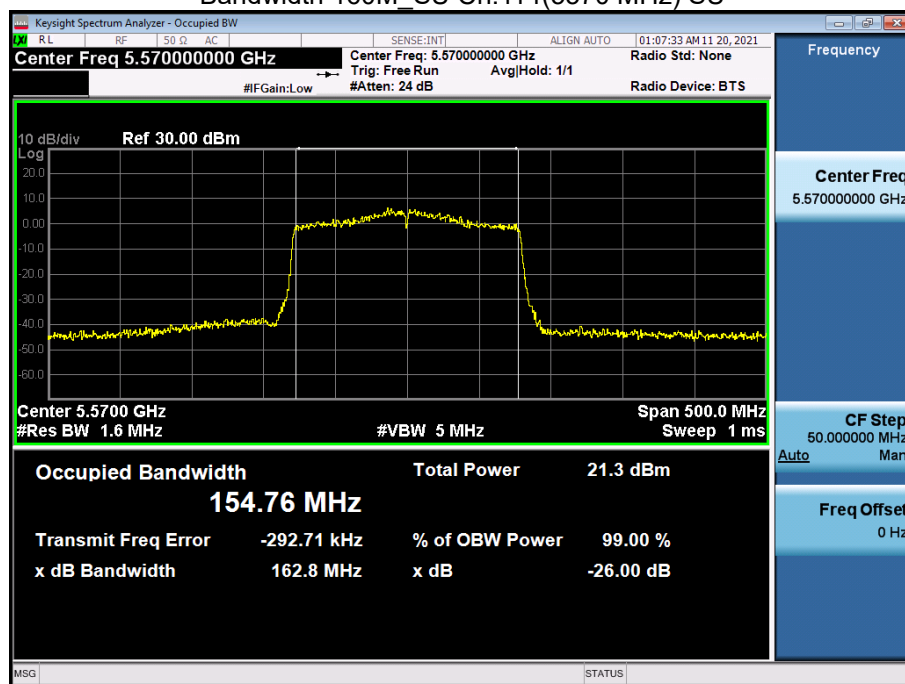
Bandwidth 160M 80U Ch.163(5815 MHz) 242 Tones RU 64



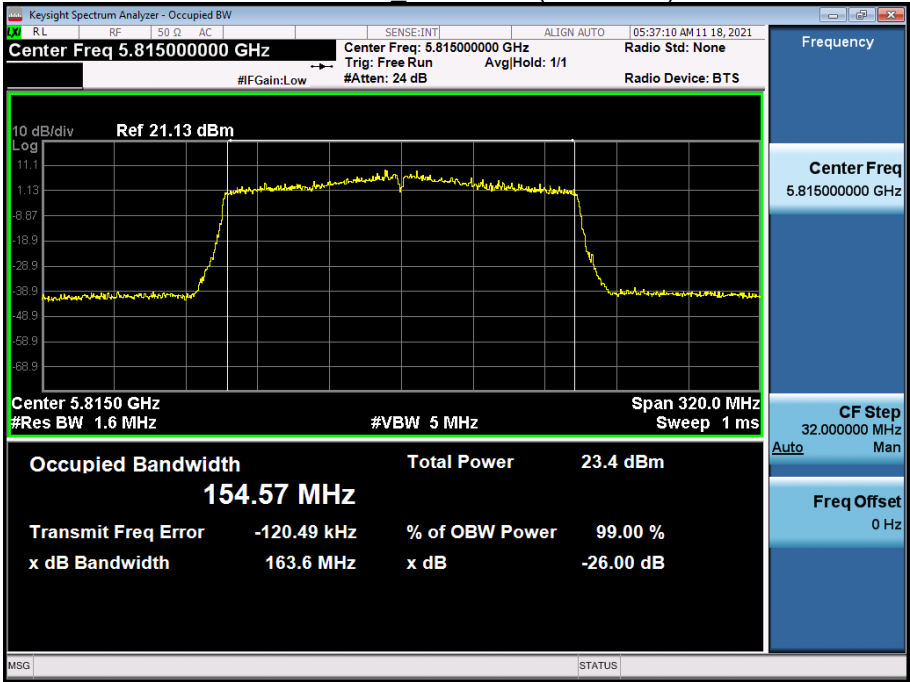
Bandwidth 160M SU Ch.50(5250 MHz) SU



Bandwidth 160M SU Ch.114(5570 MHz) SU



Bandwidth 160M SU Ch.163(5815 MHz) SU



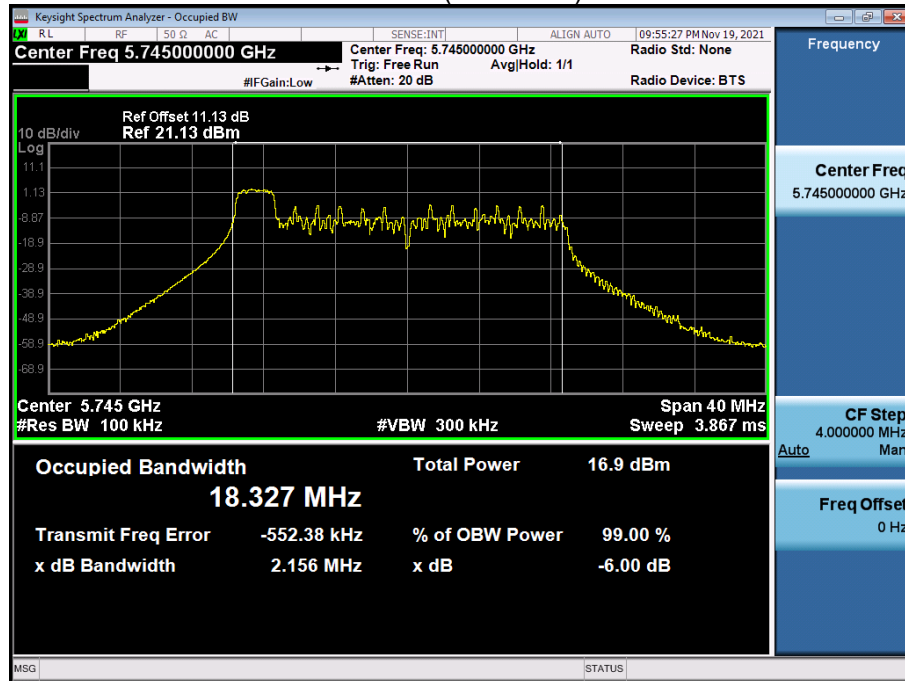
3. 6 dB Bandwidth

Note:

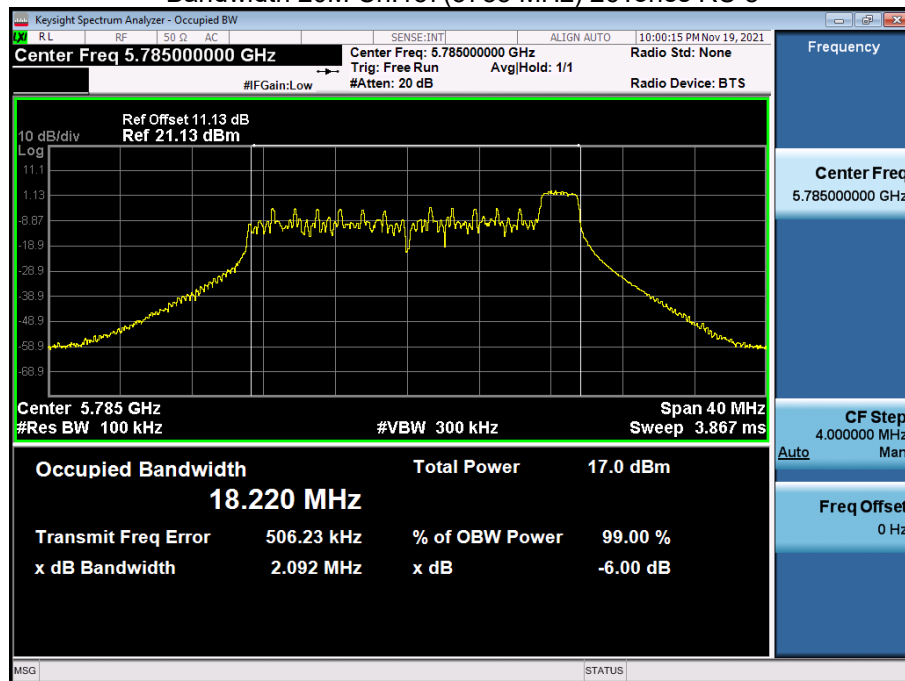
1. In order to simplify the report, attached plots were only the most narrow channel.

3.1 MIMO Ant1

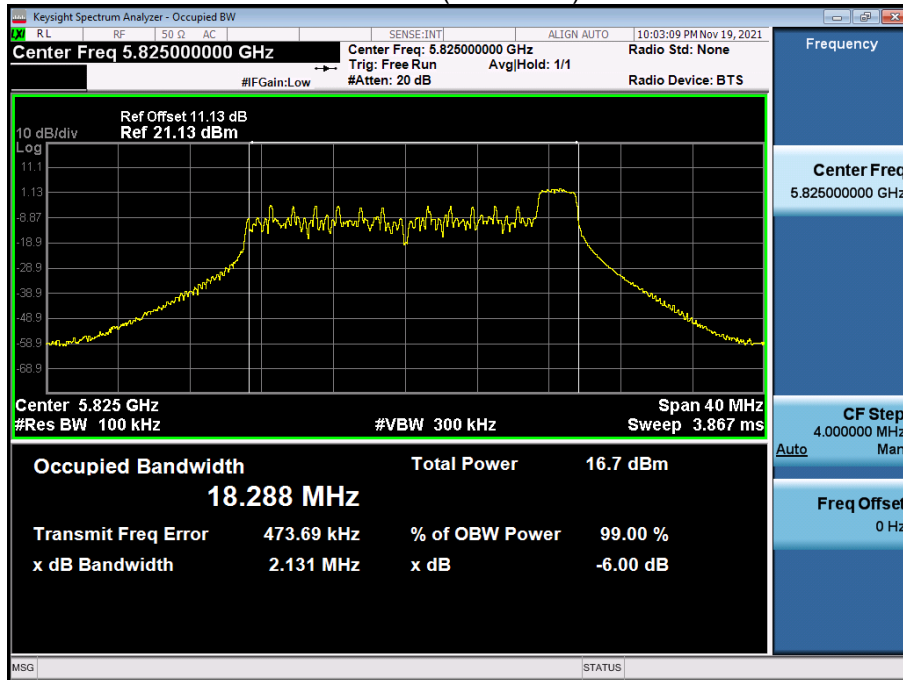
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 0



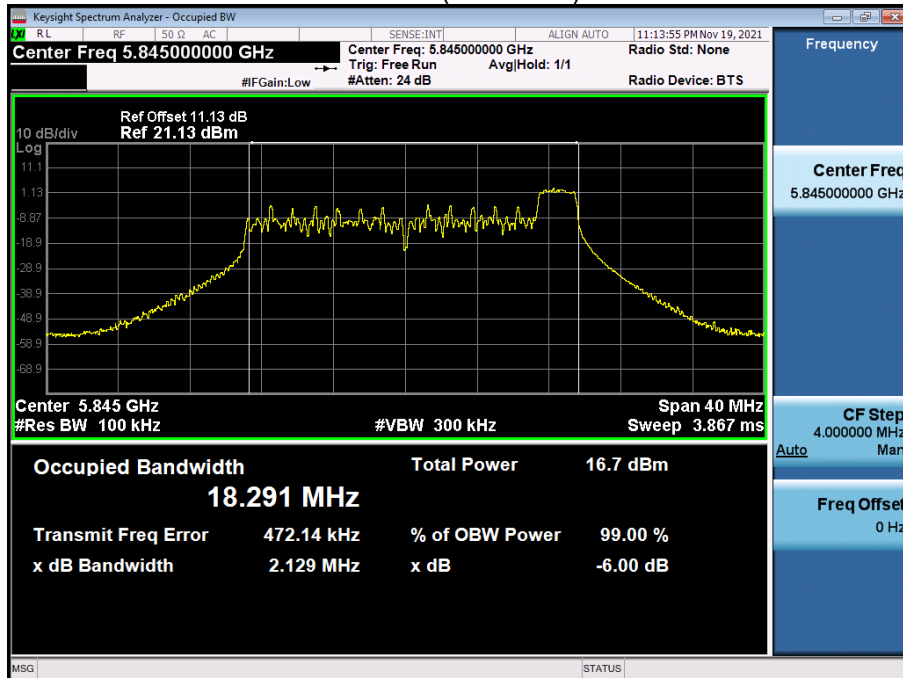
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



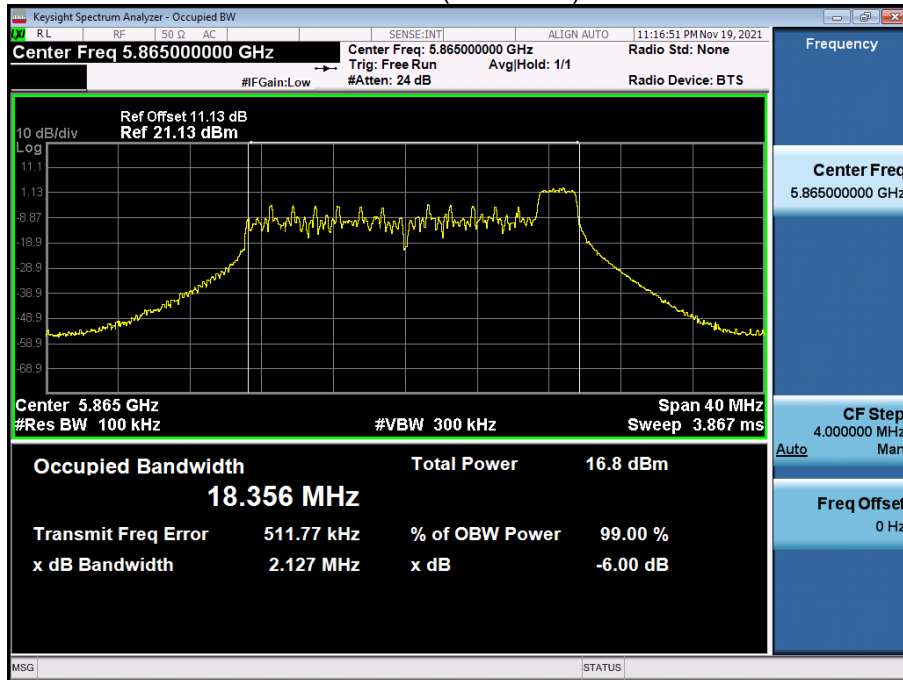
Bandwidth 20M Ch.165(5825 MHz) 26Tones RU 8



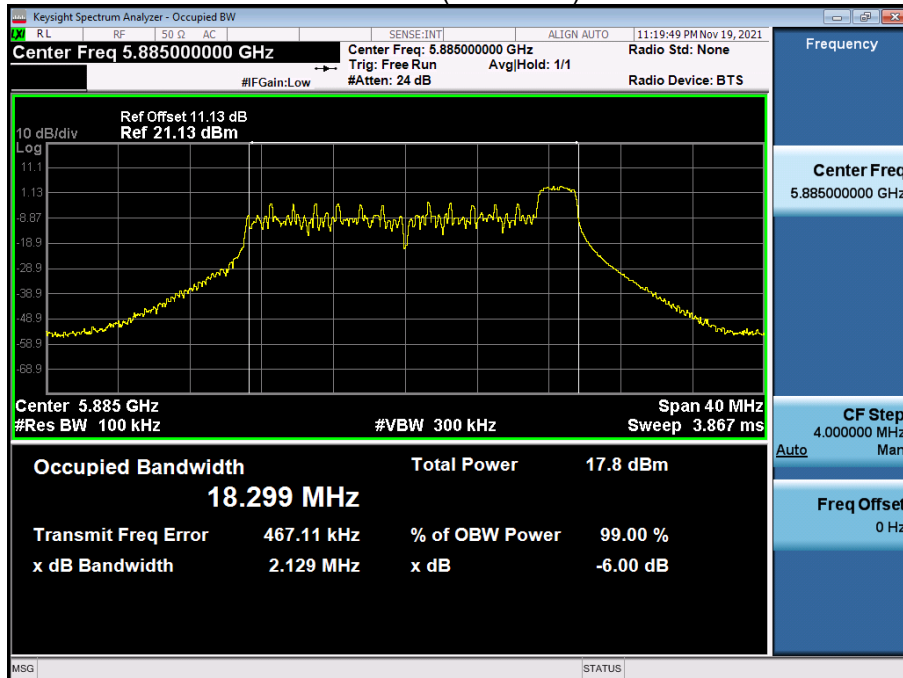
Bandwidth 20M Ch.169(5845 MHz) 26Tones RU 8



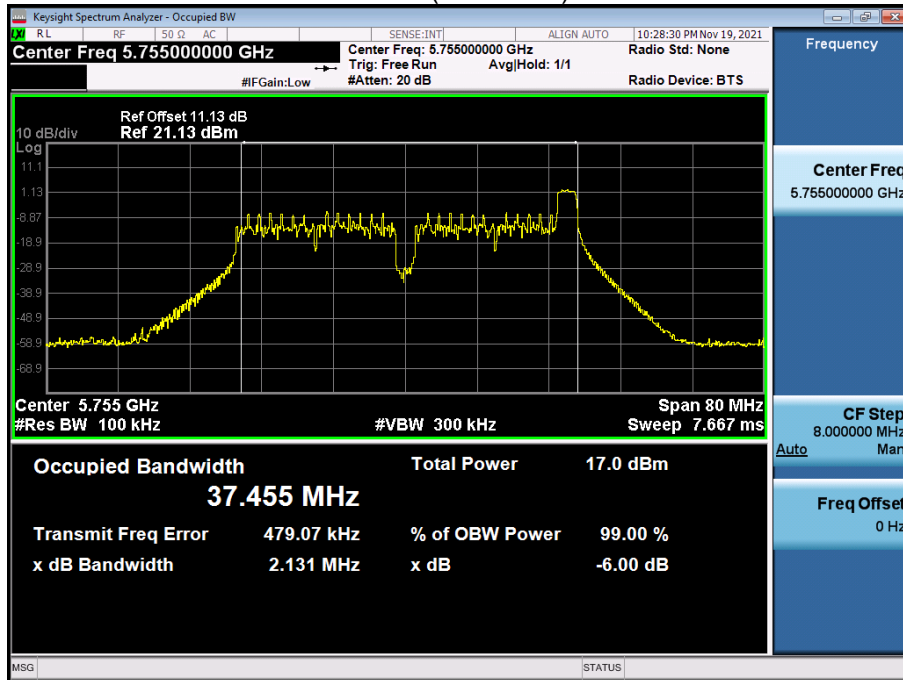
Bandwidth 20M Ch.173(5865 MHz) 26Tones RU 8



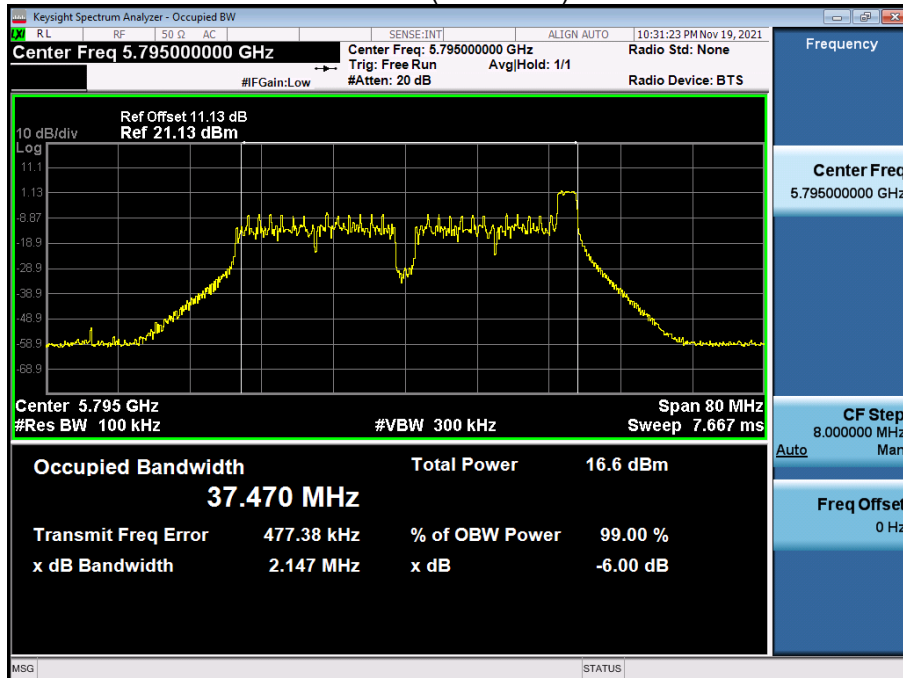
Bandwidth 20M Ch.177(5885 MHz) 26Tones RU 8



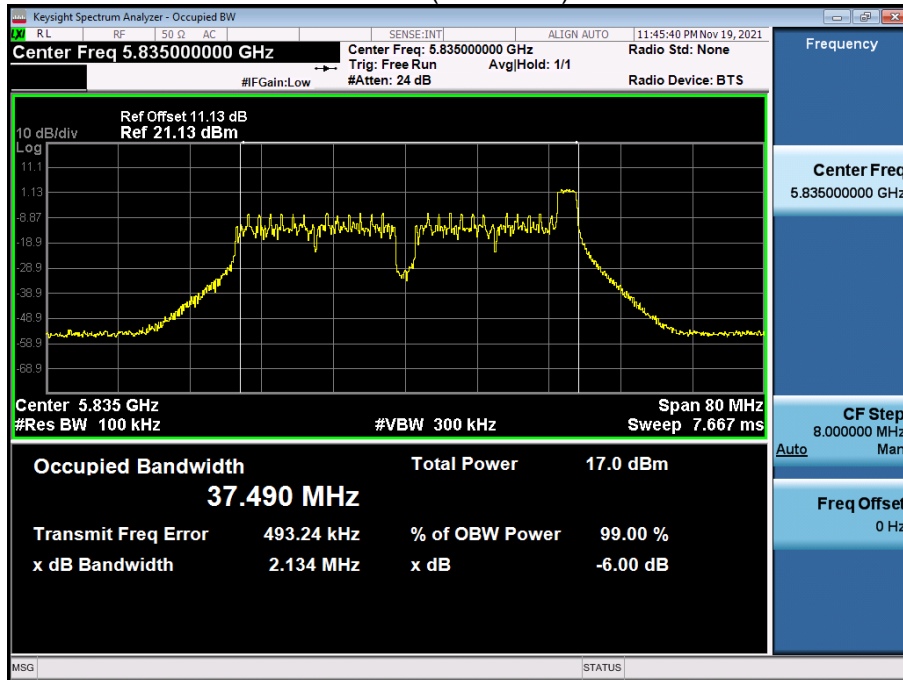
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 17



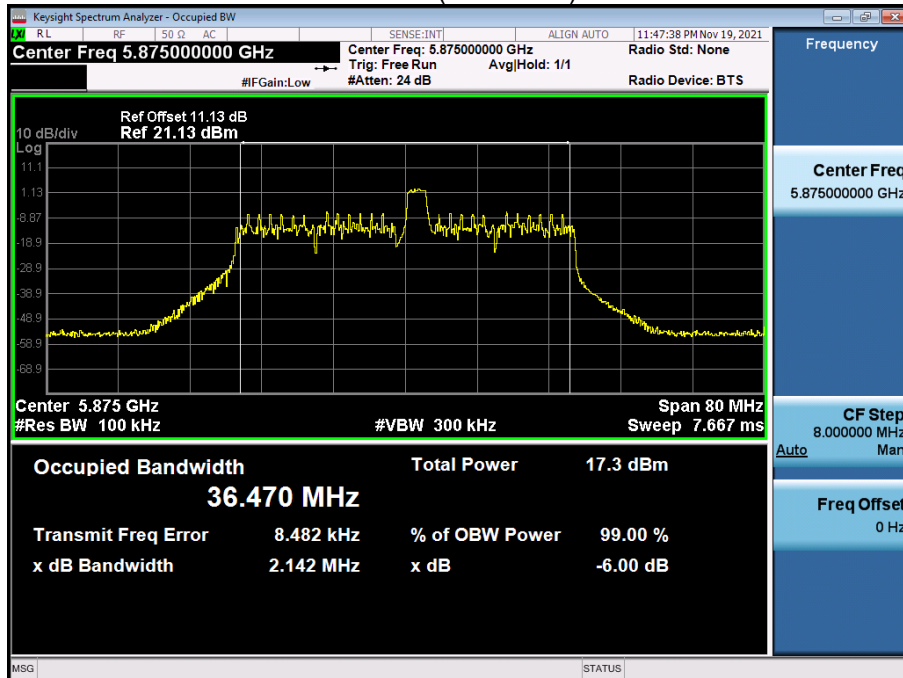
Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 17



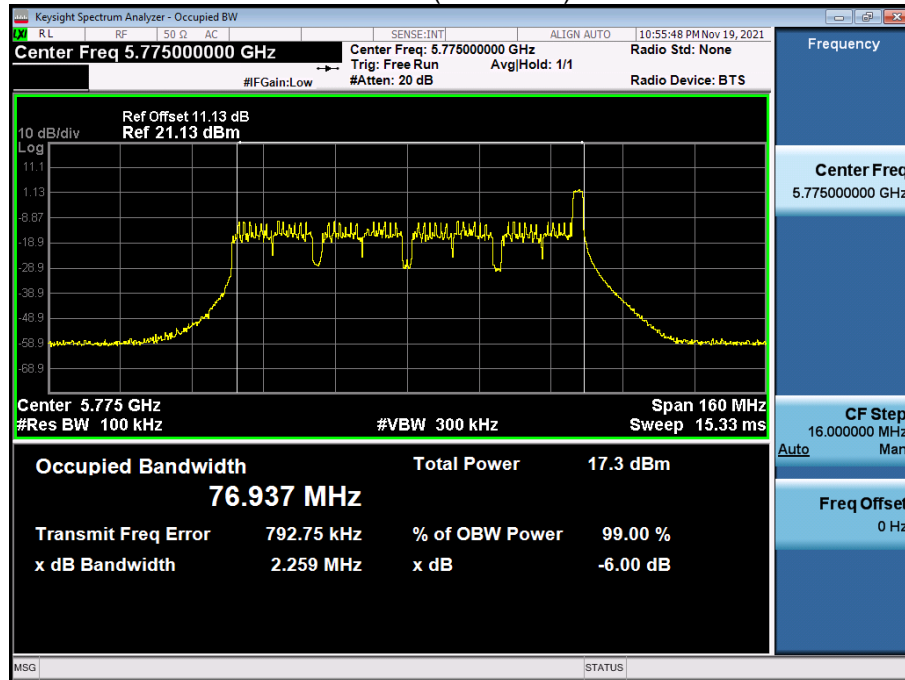
Bandwidth 40M Ch.167(5835 MHz) 26 Tones RU 17



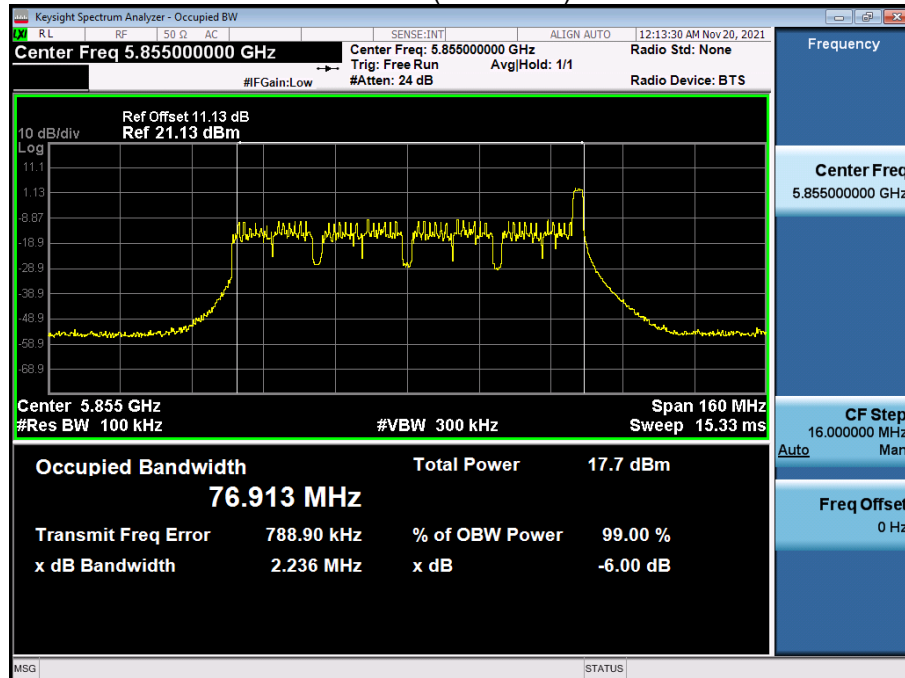
Bandwidth 40M Ch.175(5875 MHz) 26 Tones RU 9



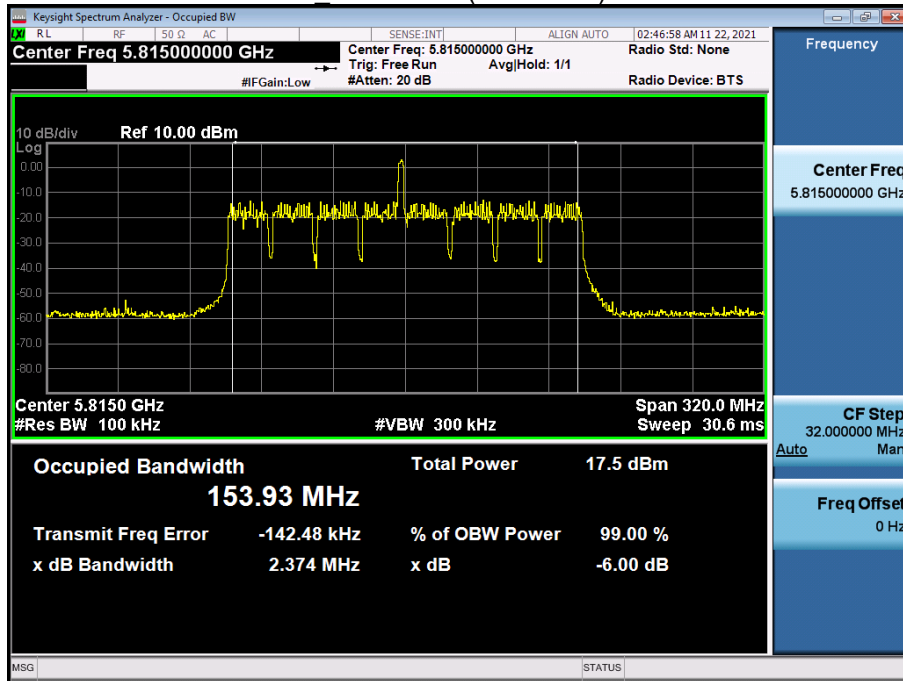
Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 36



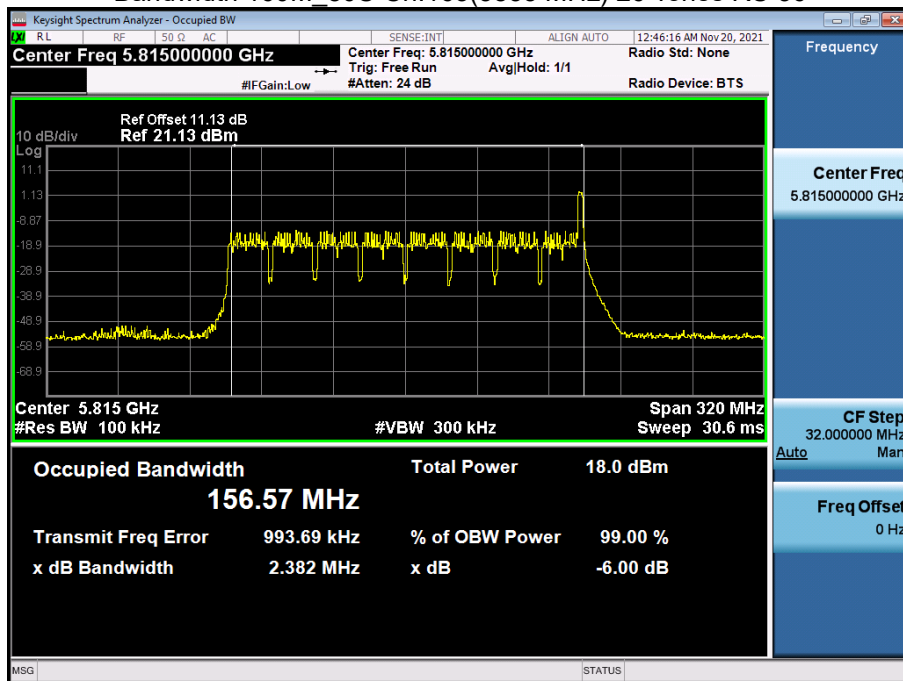
Bandwidth 80M Ch.171(5855 MHz) 26 Tones RU 36



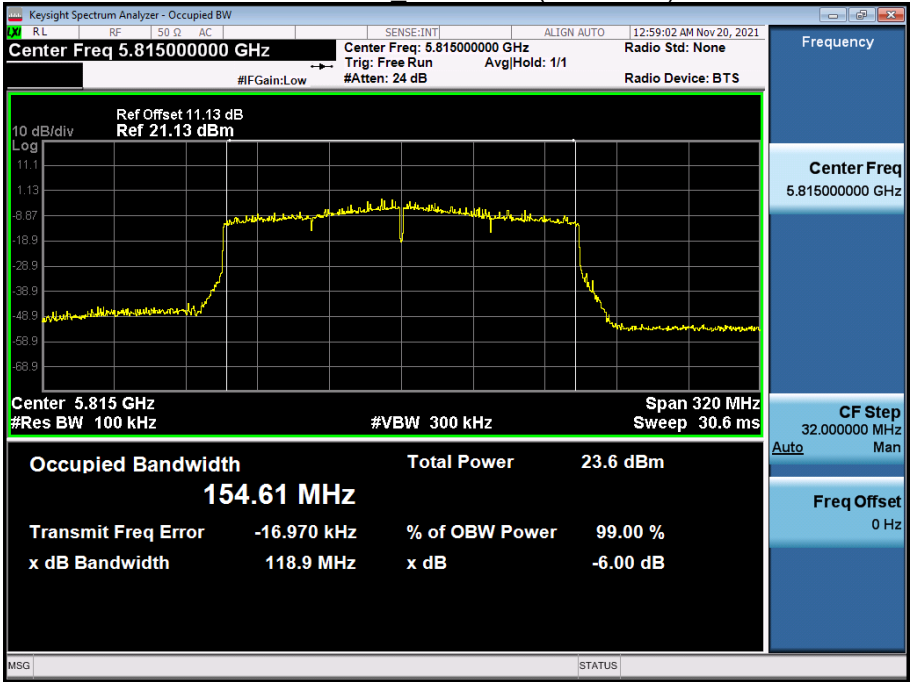
Bandwidth 160M 80L Ch.163(5855 MHz) 26 Tones RU 36



Bandwidth 160M 80U Ch.163(5855 MHz) 26 Tones RU 36

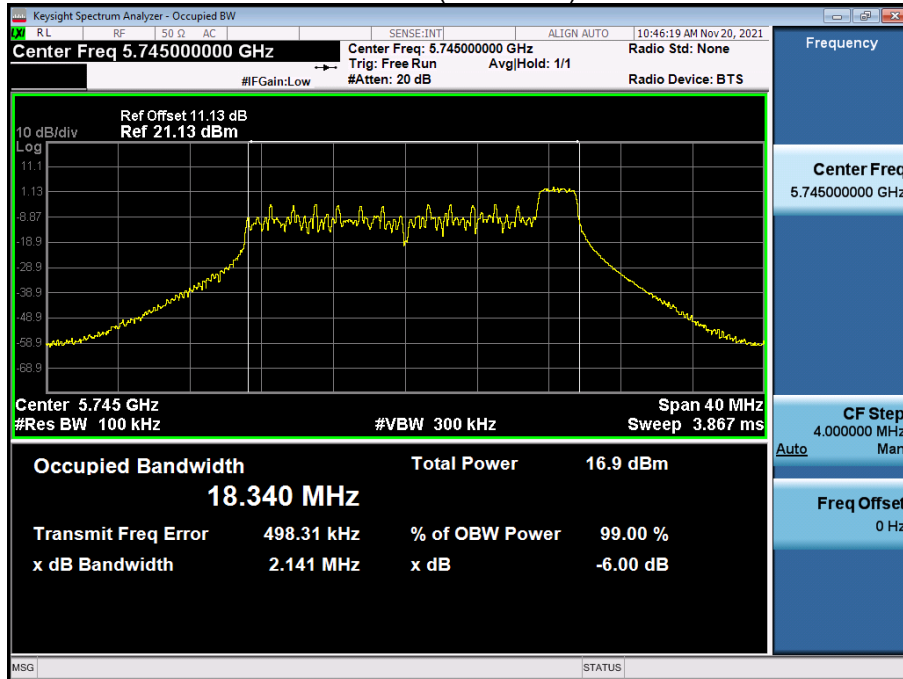


Bandwidth 160M SU Ch.163(5855 MHz) SU

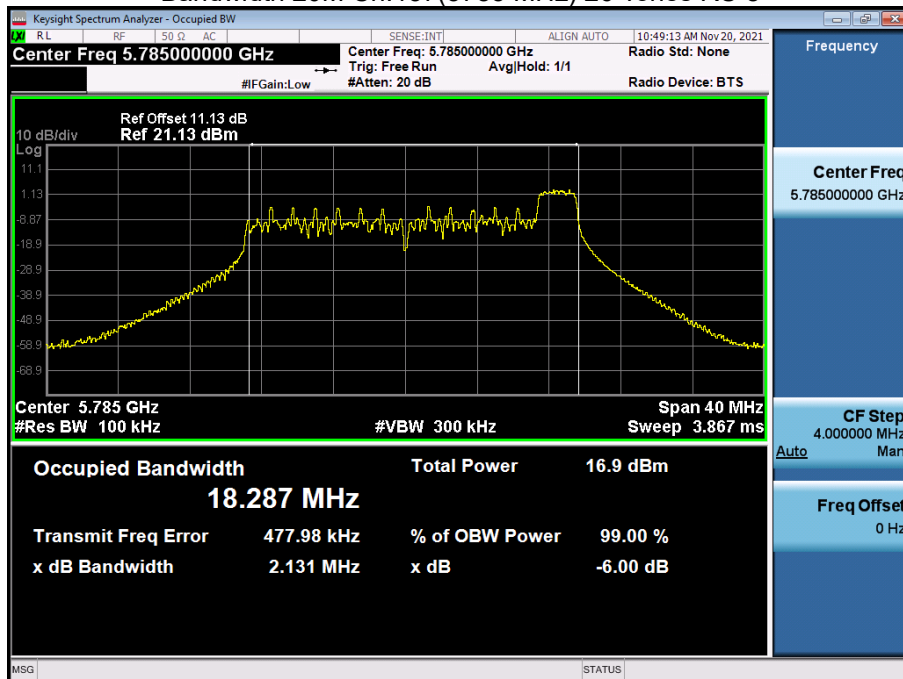


3.2 MIMO Ant2

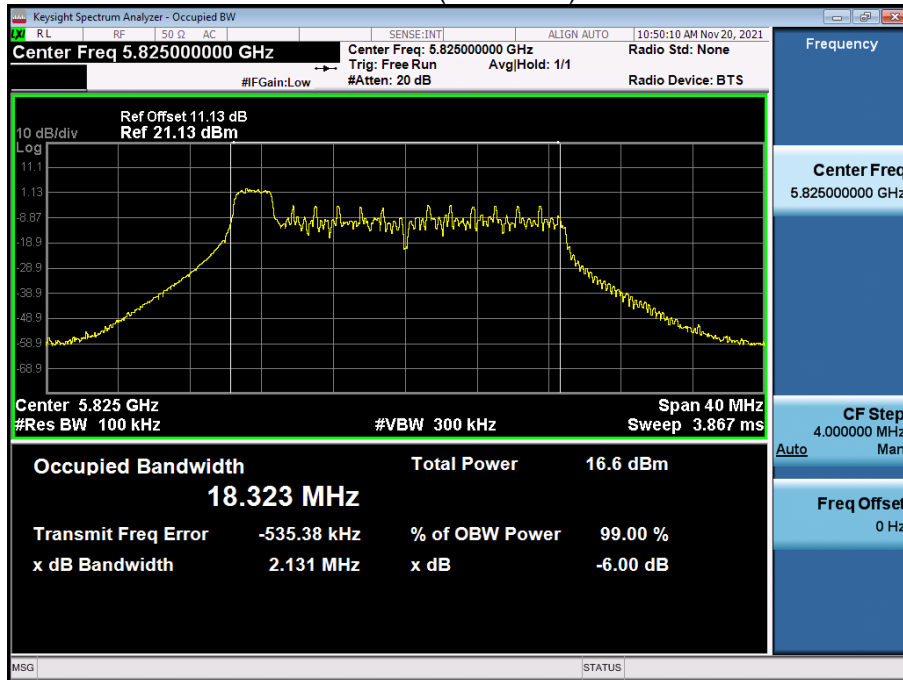
Bandwidth 20M Ch.149(5745 MHz) 26 Tones RU 8



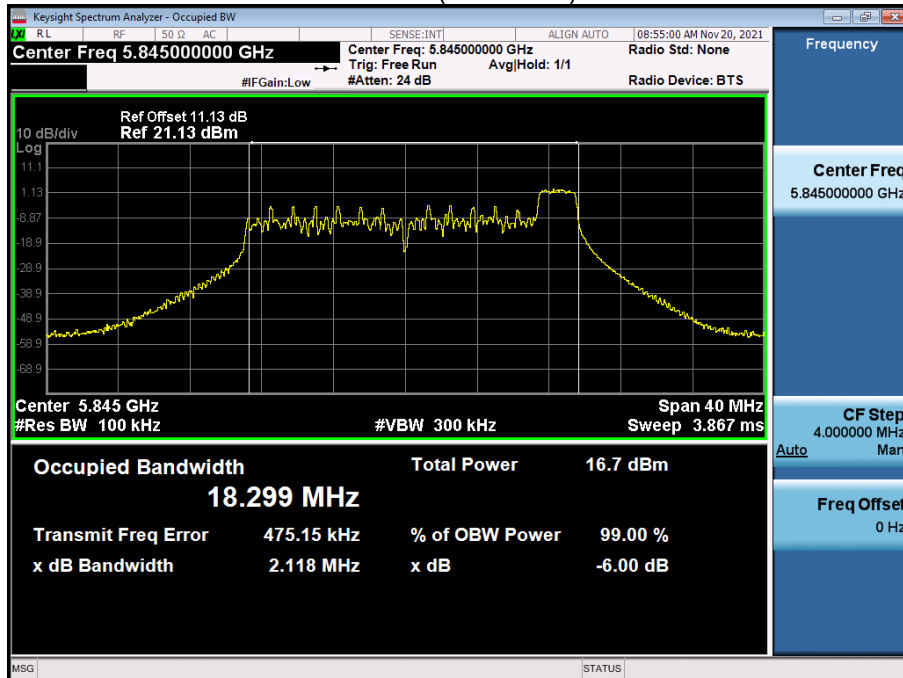
Bandwidth 20M Ch.157(5785 MHz) 26 Tones RU 8



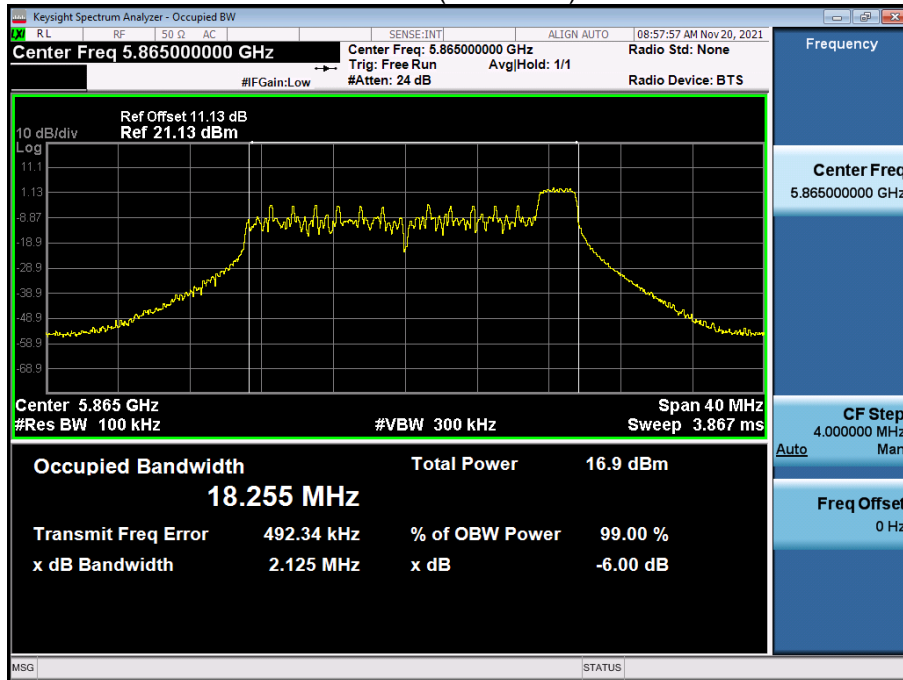
Bandwidth 20M Ch.165(5825 MHz) 26 Tones RU 0



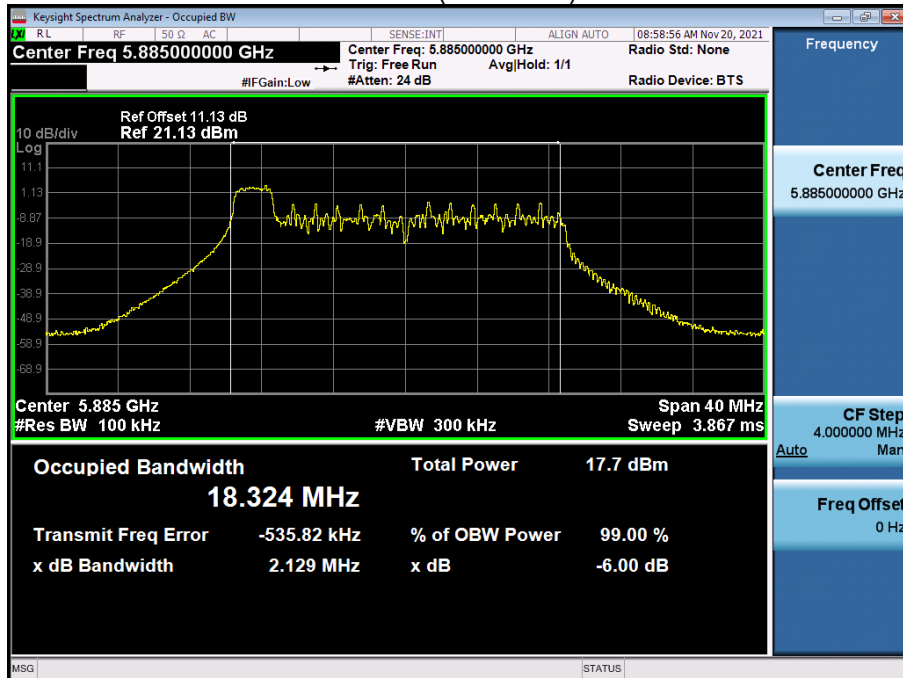
Bandwidth 20M Ch.169(5845 MHz) 26 Tones RU 8



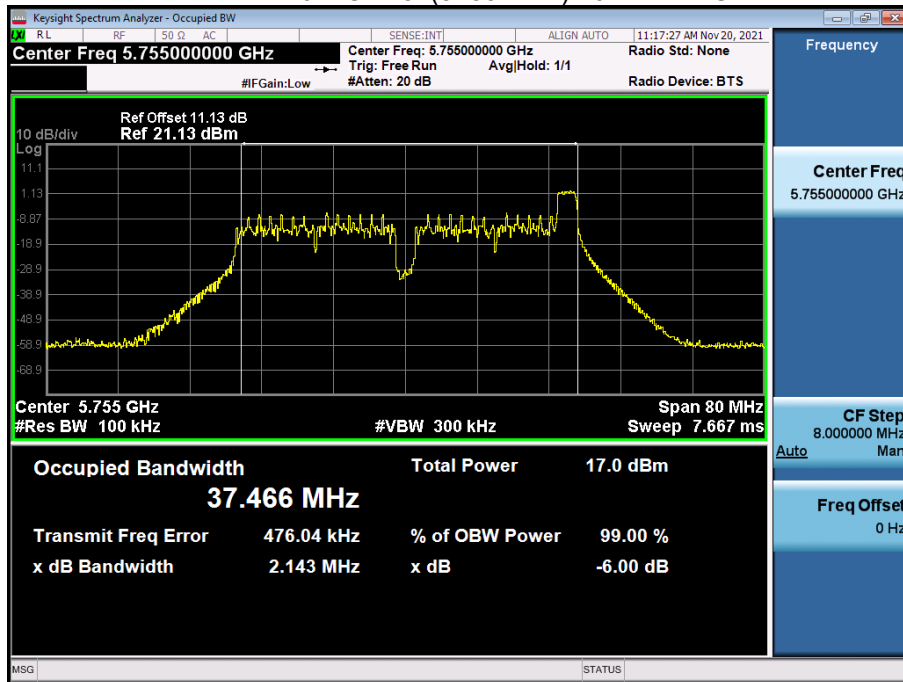
Bandwidth 20M Ch.173(5865 MHz) 26 Tones RU 8



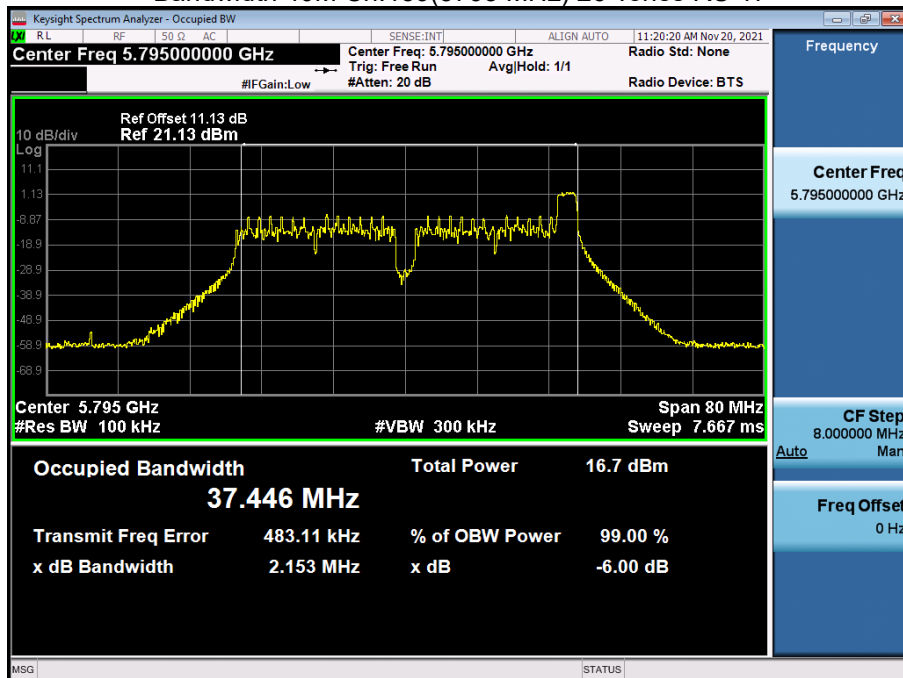
Bandwidth 20M Ch.177(5885 MHz) 26 Tones RU 0



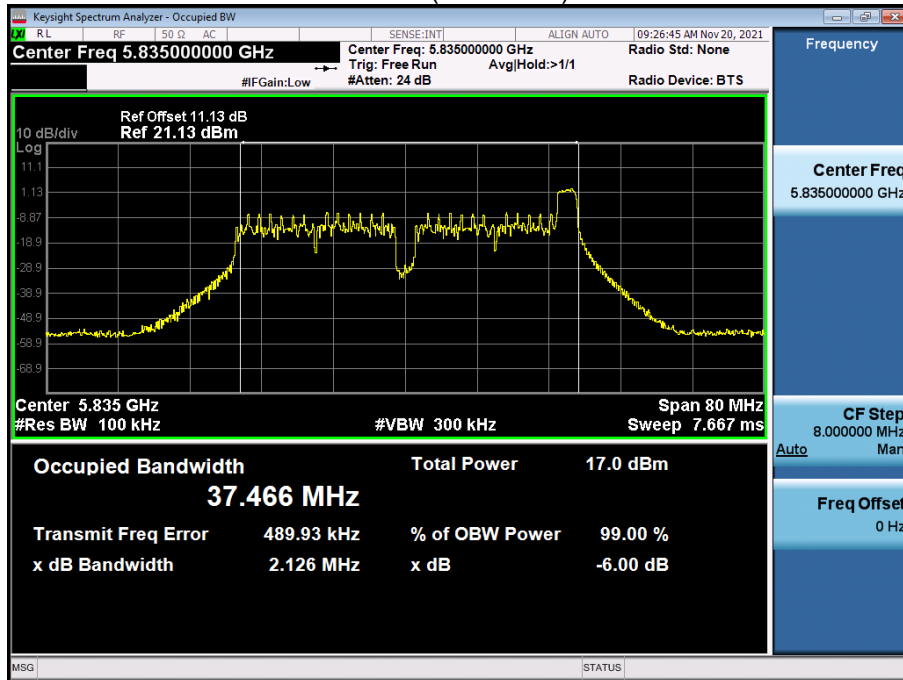
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 17



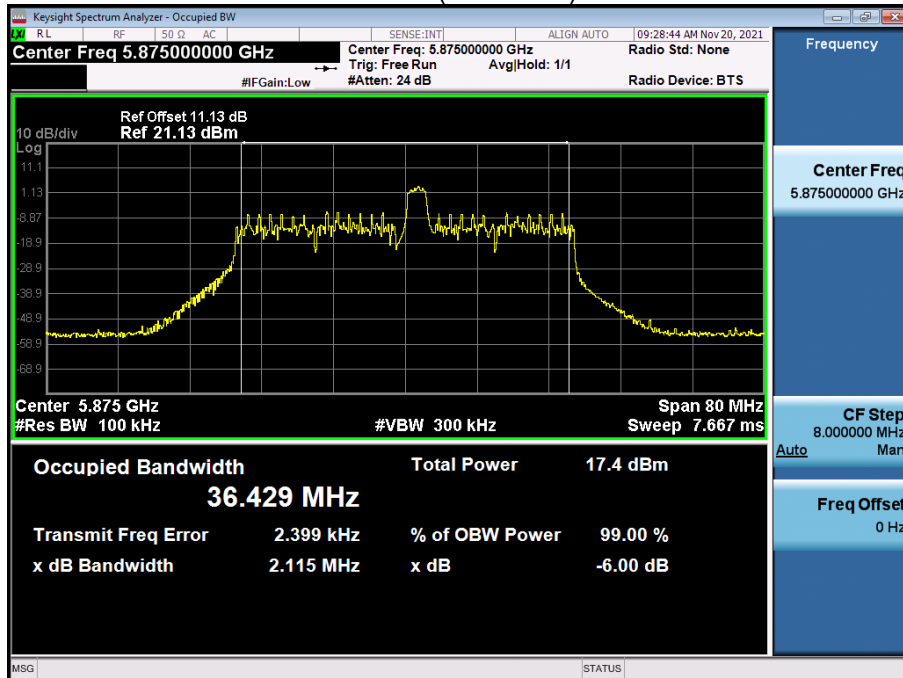
Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 17



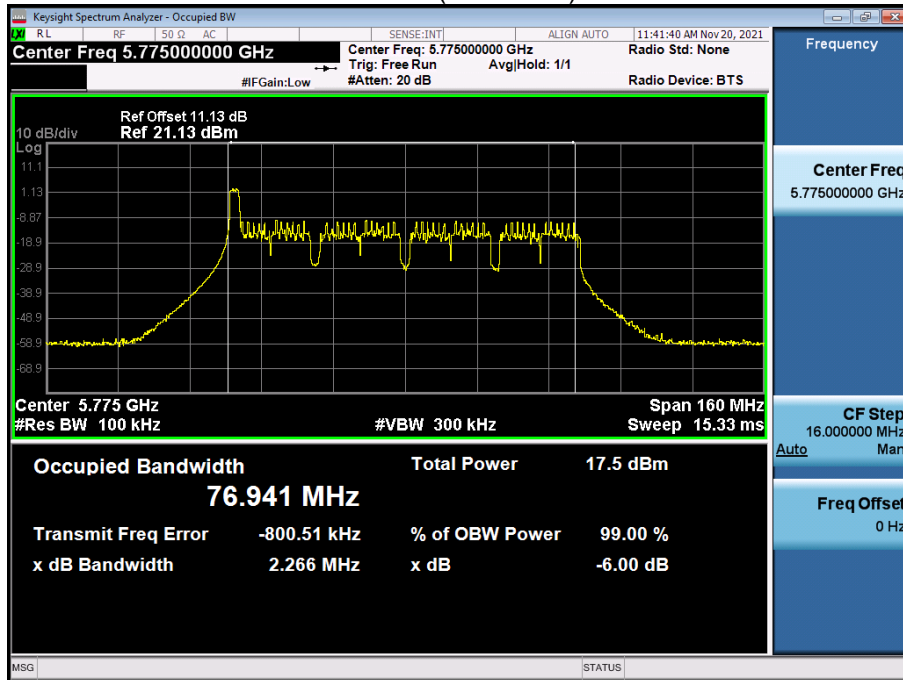
Bandwidth 40M Ch.167(5835 MHz) 26 Tones RU 17



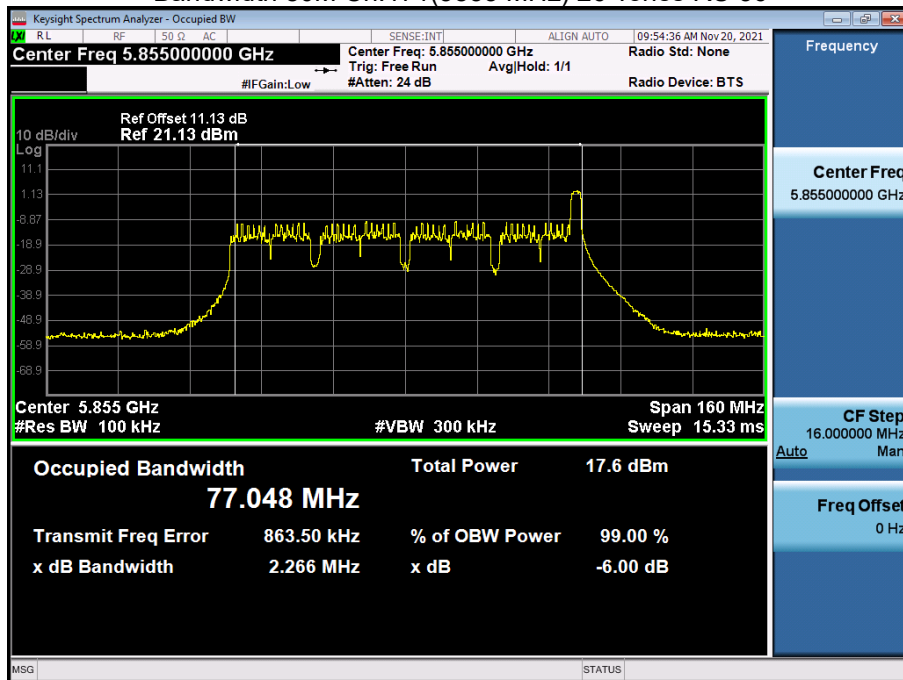
Bandwidth 40M Ch.175(5875 MHz) 26 Tones RU 9



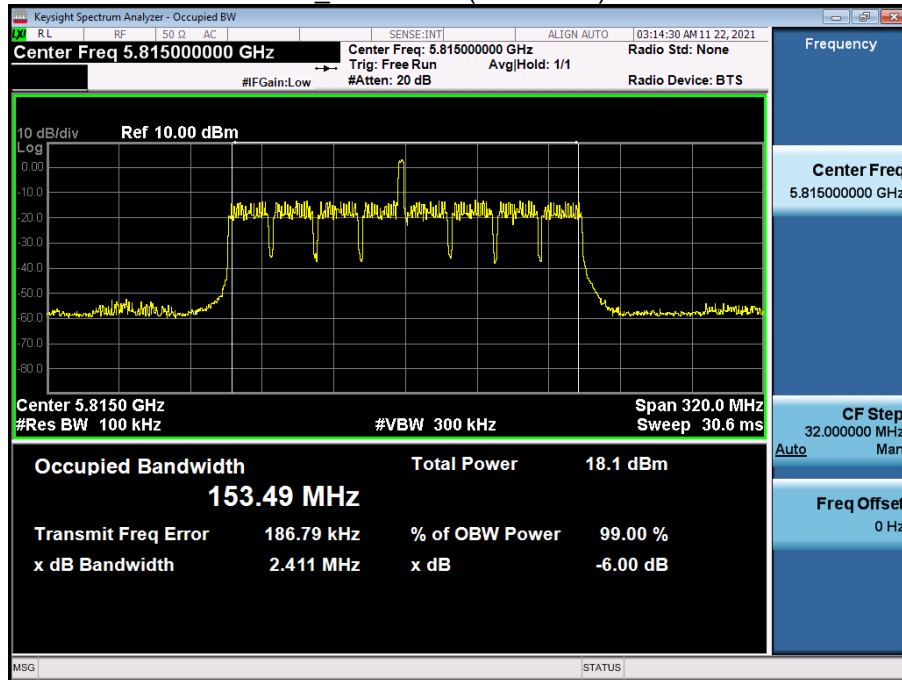
Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 0



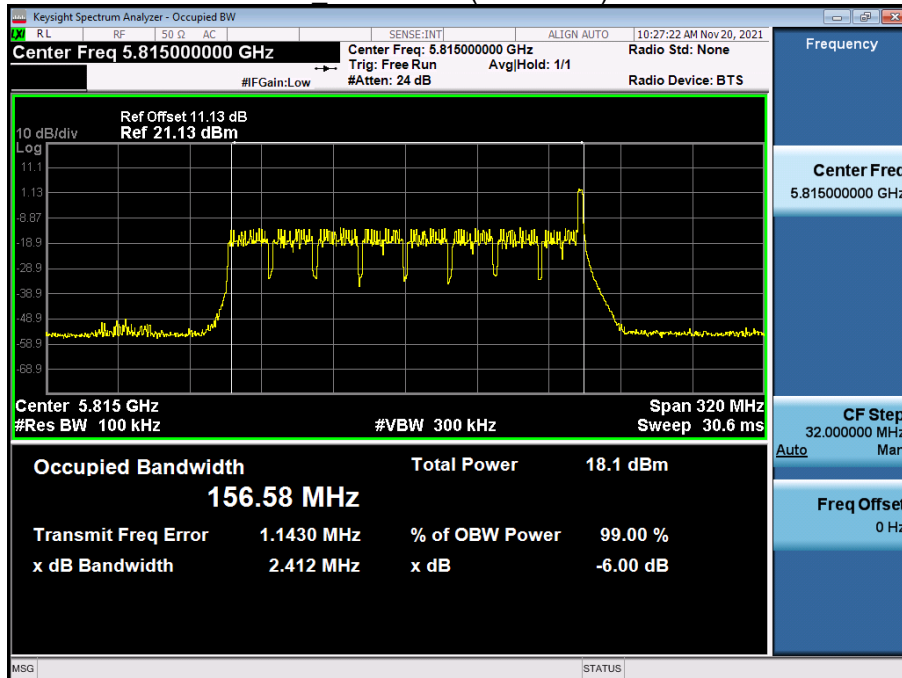
Bandwidth 80M Ch.171(5855 MHz) 26 Tones RU 36



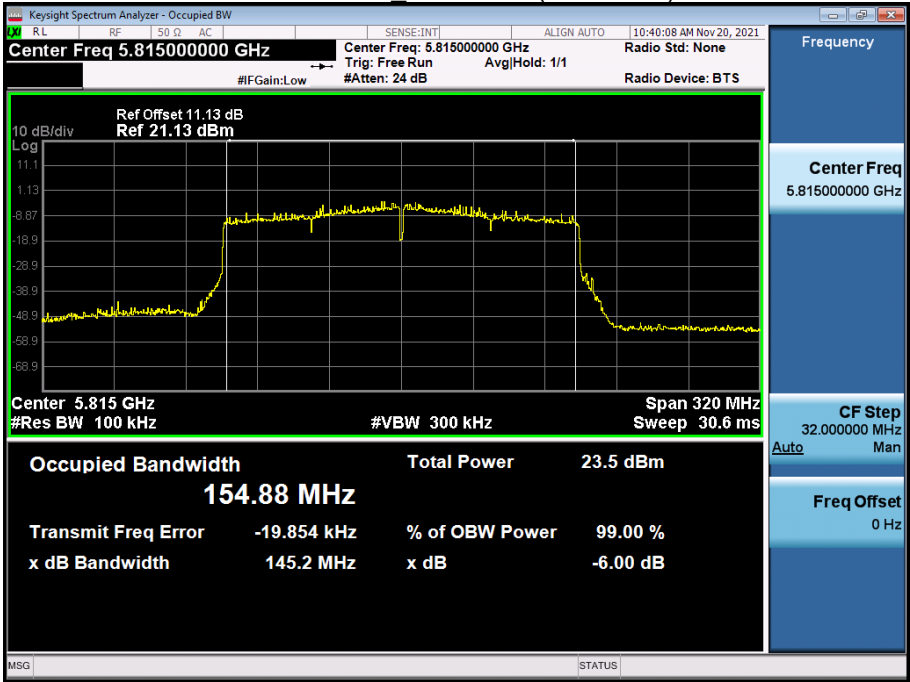
Bandwidth 160M_80L Ch.163(5815 MHz) 26 Tones RU 36



Bandwidth 160M_80U Ch.163(5815 MHz) 26 Tones RU 36



Bandwidth 160M SU Ch.163(5815 MHz) SU



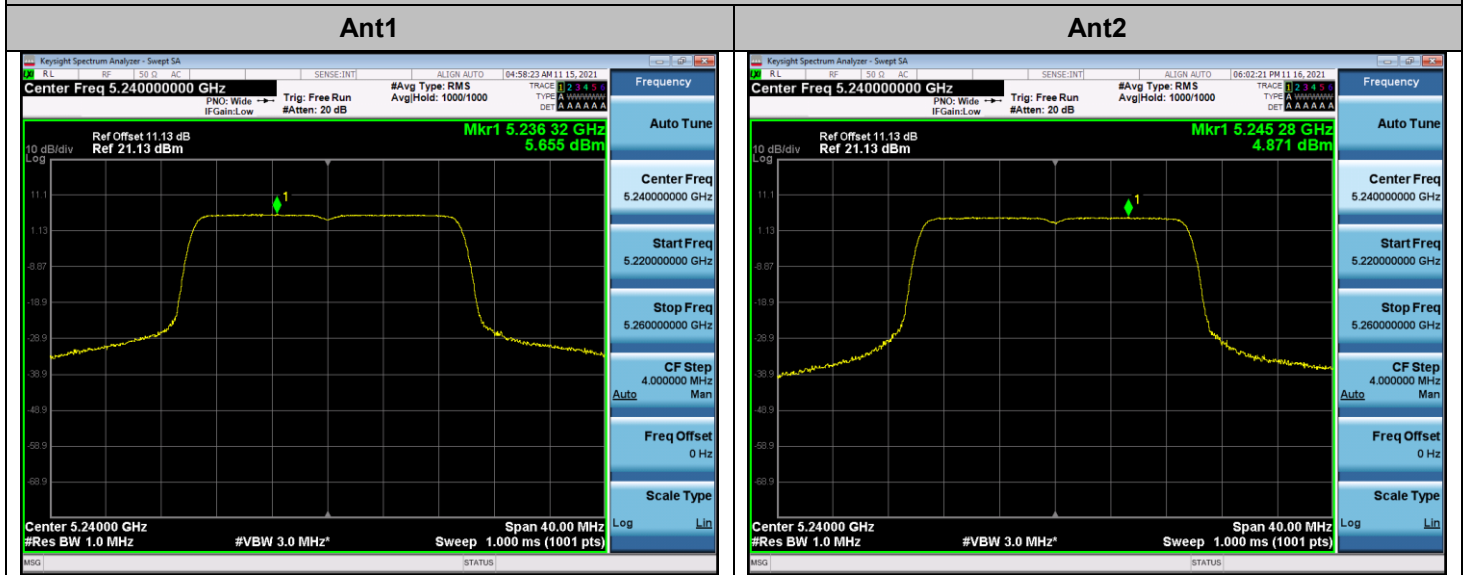
4. Power Spectral Density

Note:

1. In order to simplify the report, attached plots were only channel of highest PSD.

4.1 SUM (MIMO Ant 1 + MIMO Ant 2)

Bandwidth 20M Ch.48(5240 MHz) SU

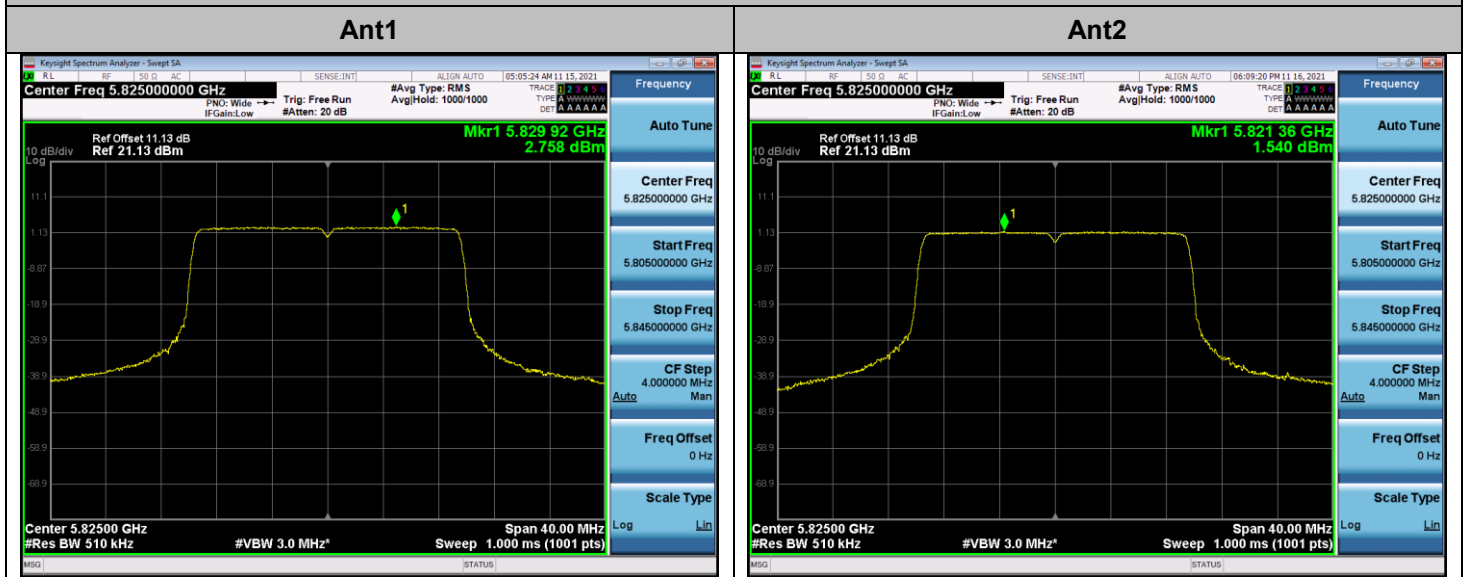


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
8.291	0.000	8.291

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 20M Ch.165 (5825 MHz) SU

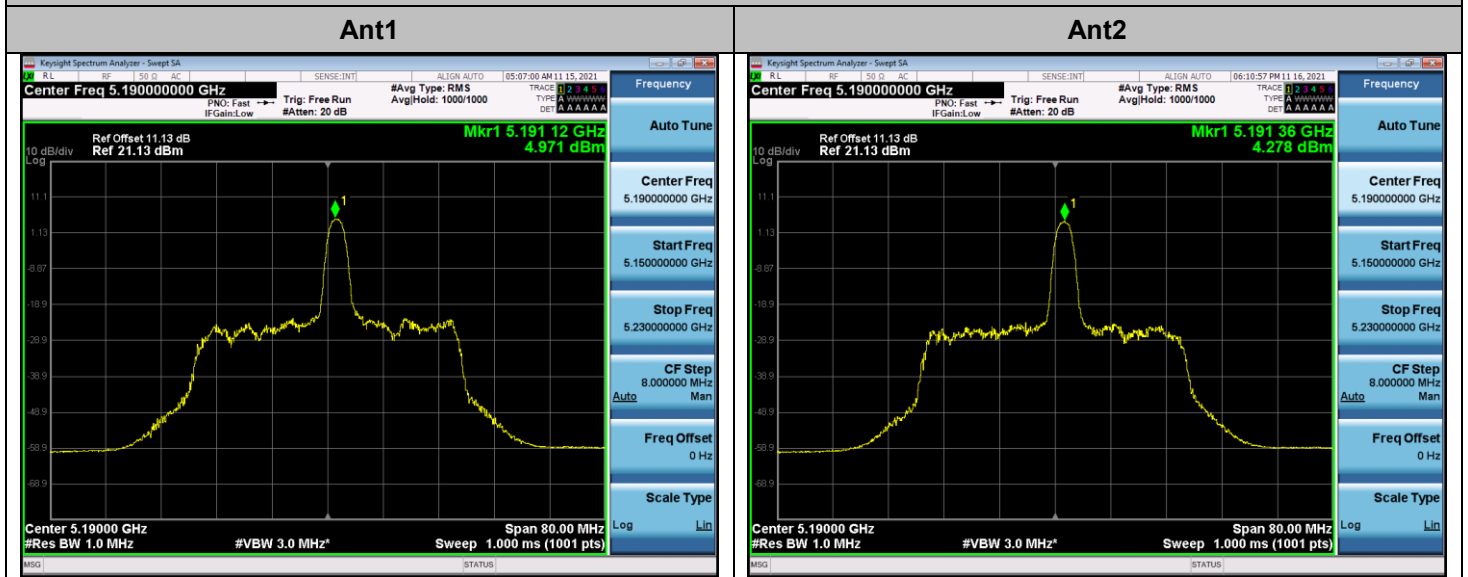


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.202	0.000	5.202

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 40M Ch.38 (5190 MHz) 26 Tones RU 9

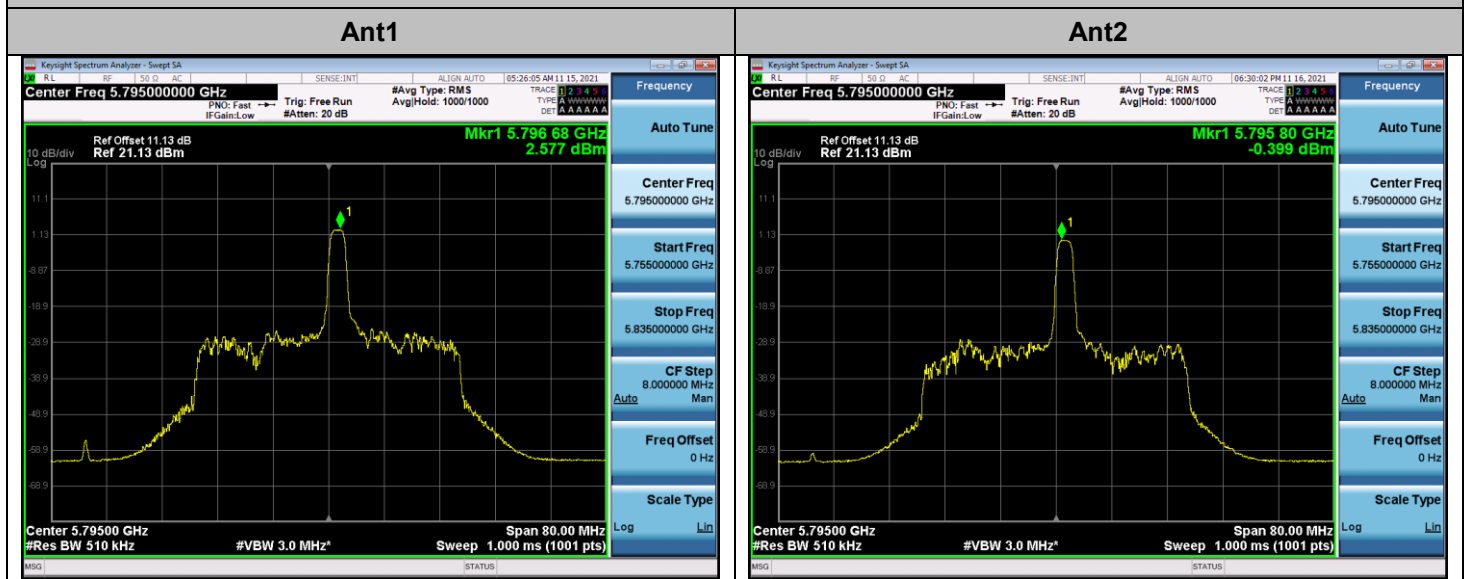


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.649	0.000	7.649

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

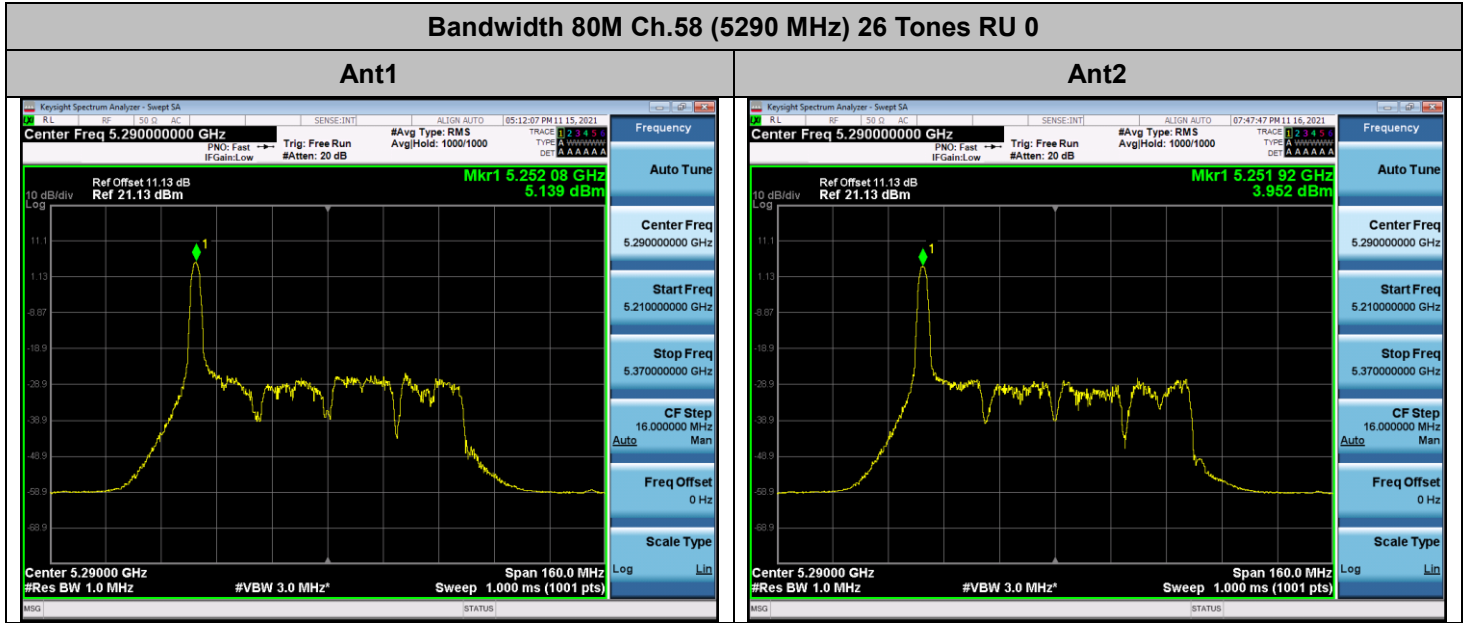
Bandwidth 40M Ch.159 (5795 MHz) 26 Tones RU 9



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.349	0.000	4.349

Note:

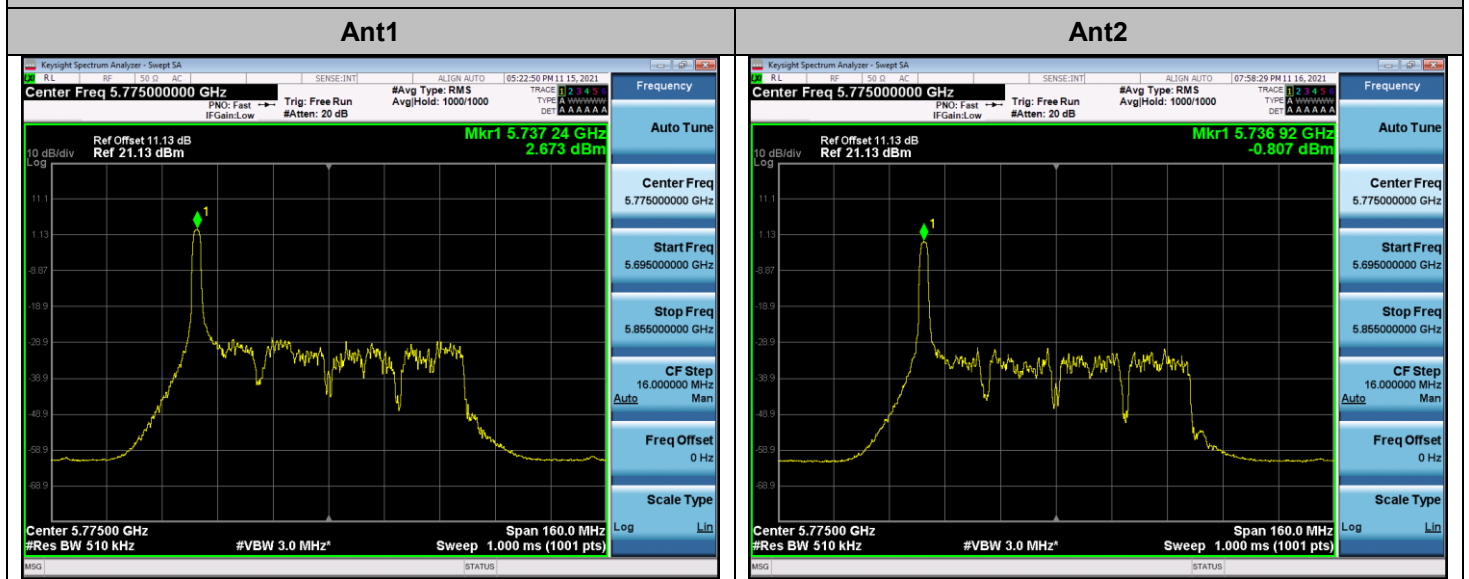
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.596	0.000	7.596

Note:
 Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 80M Ch.155 (5775 MHz) 26 Tones RU 0

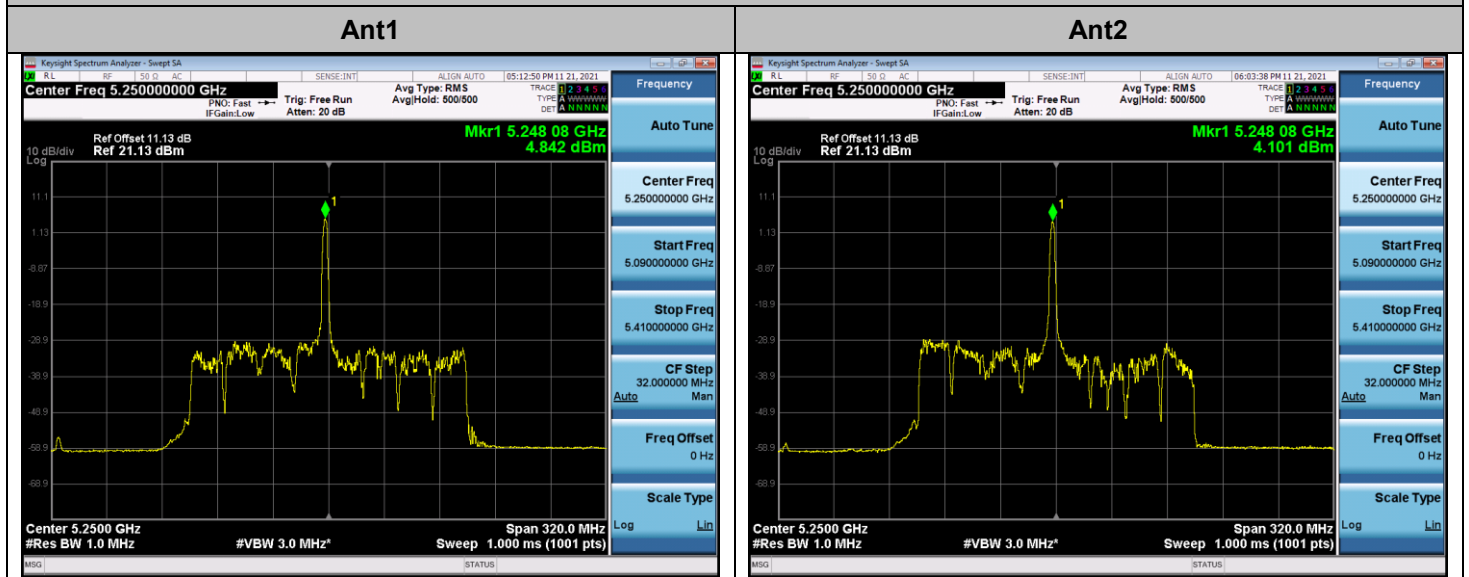


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.283	0.000	4.283

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 160M_80L Ch.50 (5250 MHz) 26 Tones RU 36



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.498	0.000	7.498

Note:

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)