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Appendix B:
802.11ax
Test Plot

FCC ID
A3LSMS911B

REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	October 21, 2022	Initial Release
1	November 07, 2022	Revised Typo

Note:

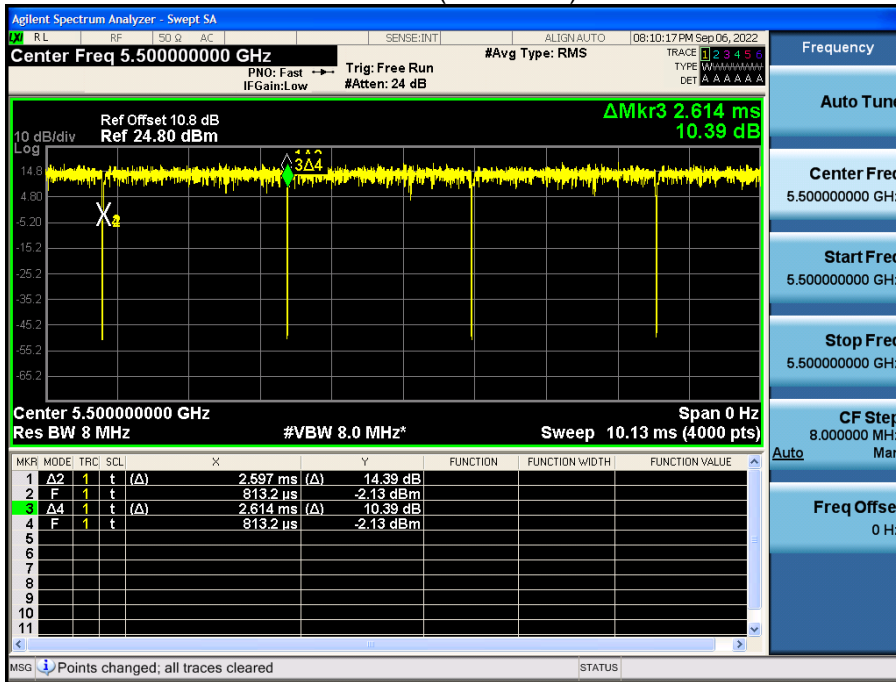
In order to simplify the report, attached plots were only the most lowest datarate.

1. Duty Cycle

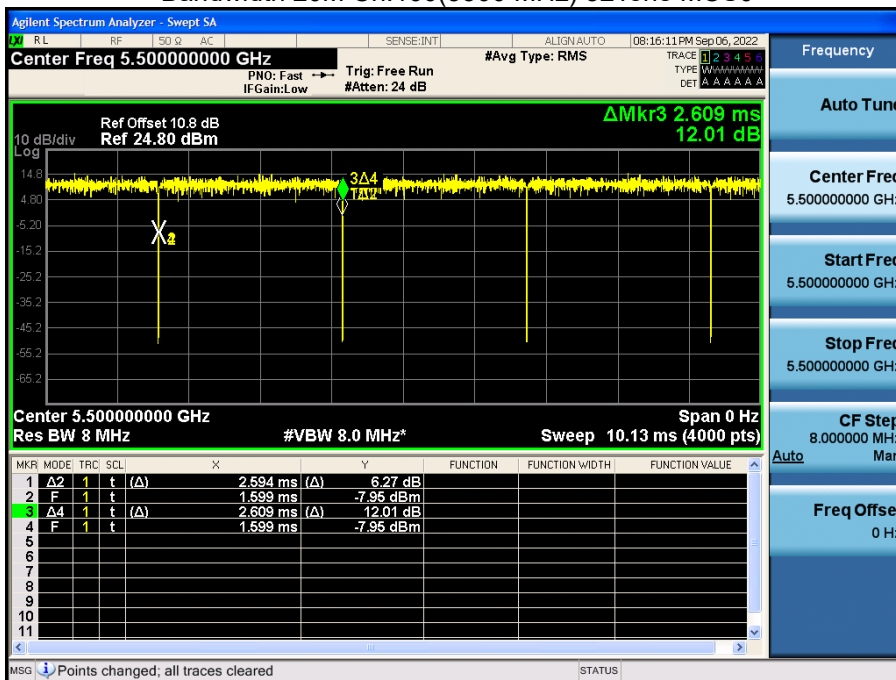
Note :

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

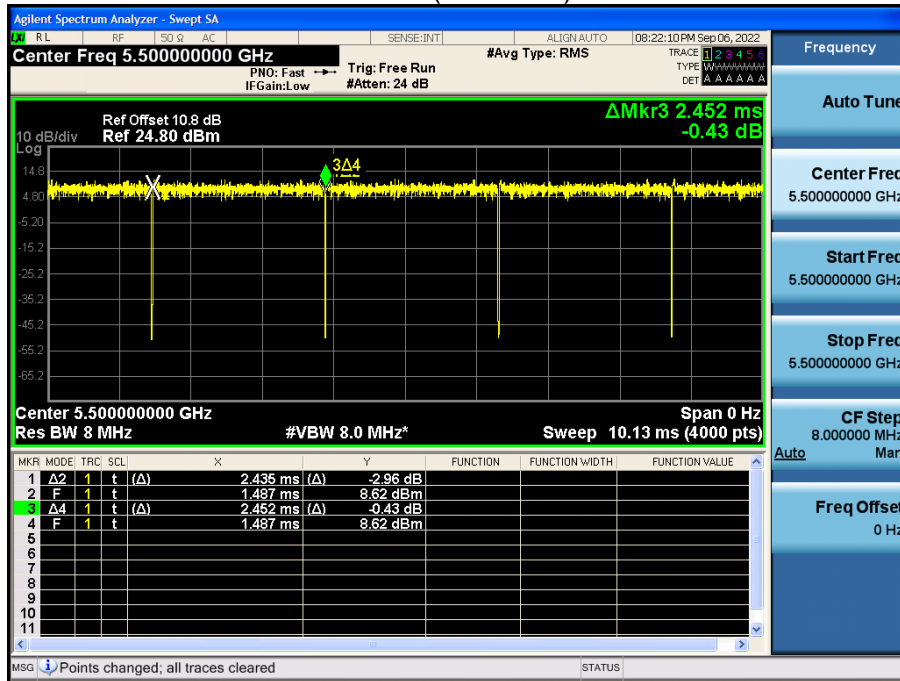
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



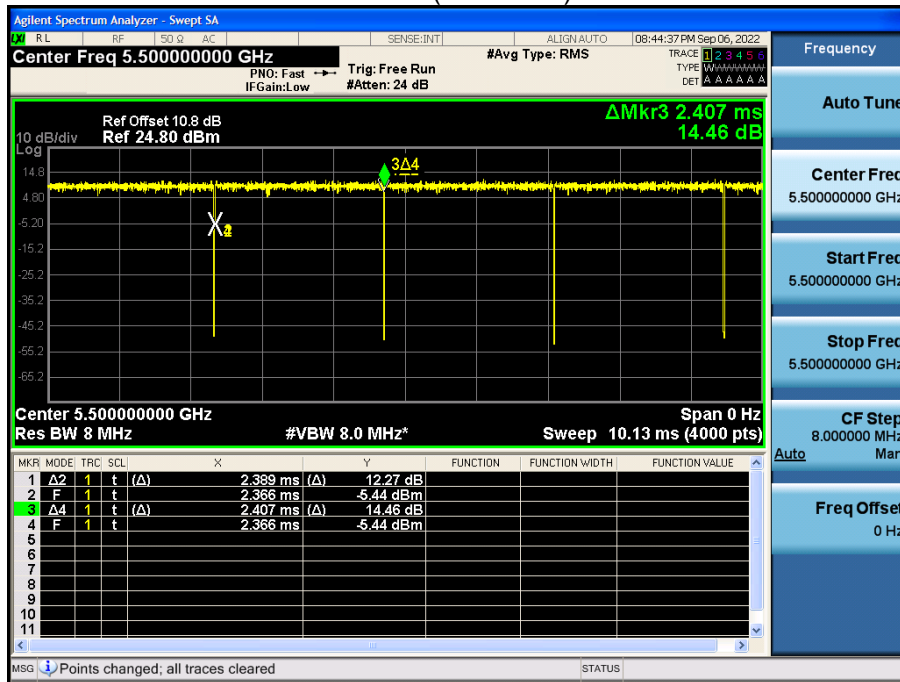
Bandwidth 20M Ch.100(5500 MHz) 52Tone MCS0



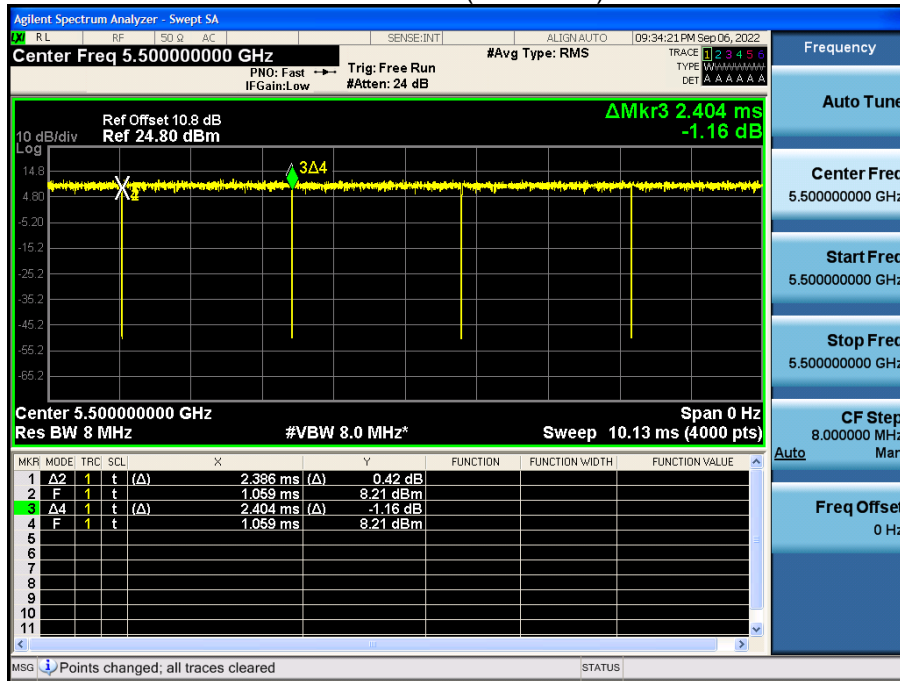
Bandwidth 20M Ch.100(5500 MHz) 106Tone MCS0



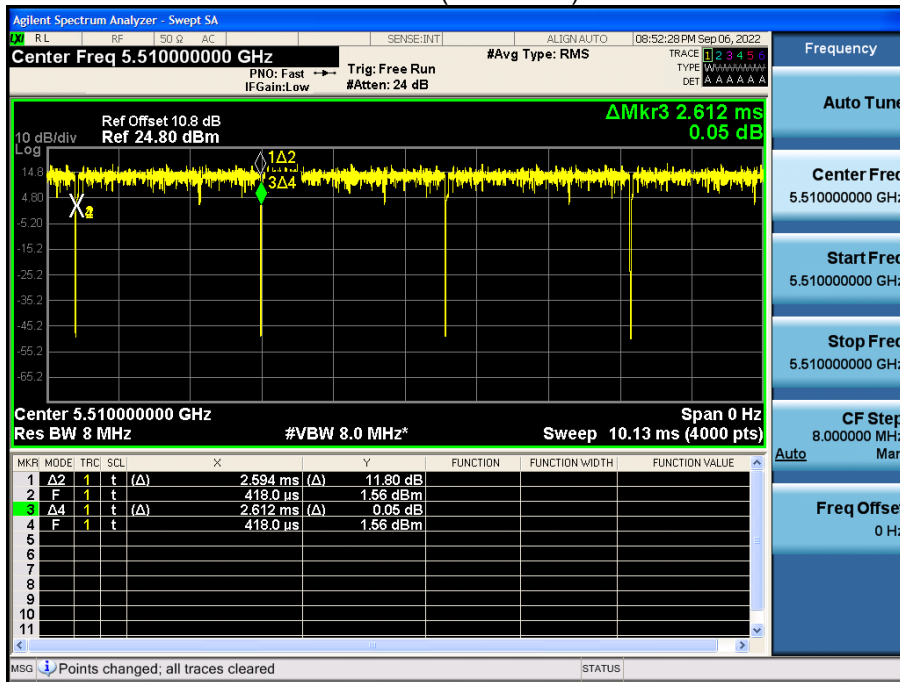
Bandwidth 20M Ch.100(5500 MHz) 242Tone MCS0



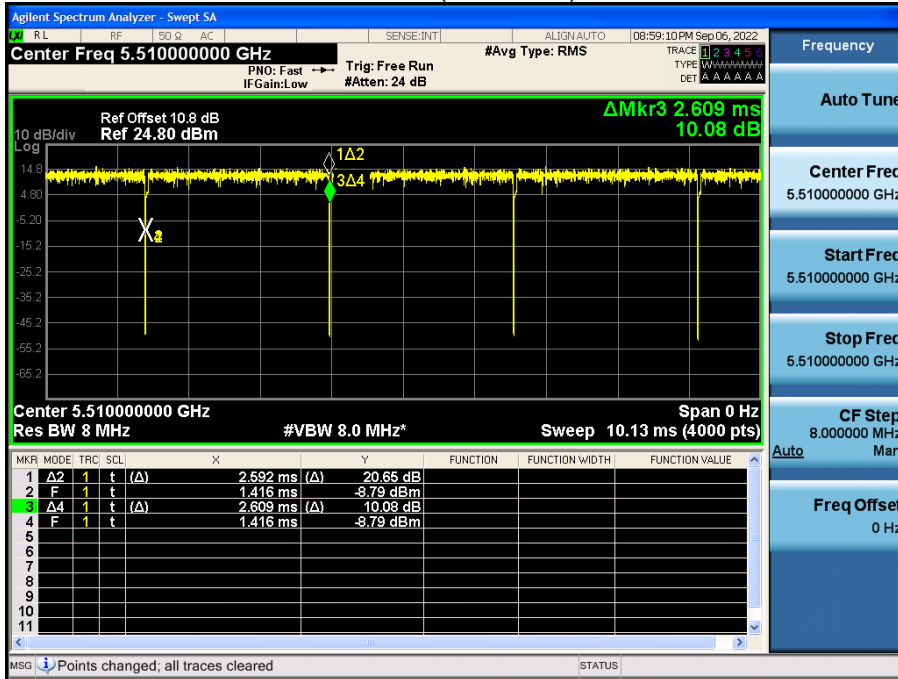
Bandwidth 20M Ch.100(5500 MHz) SU MCS0



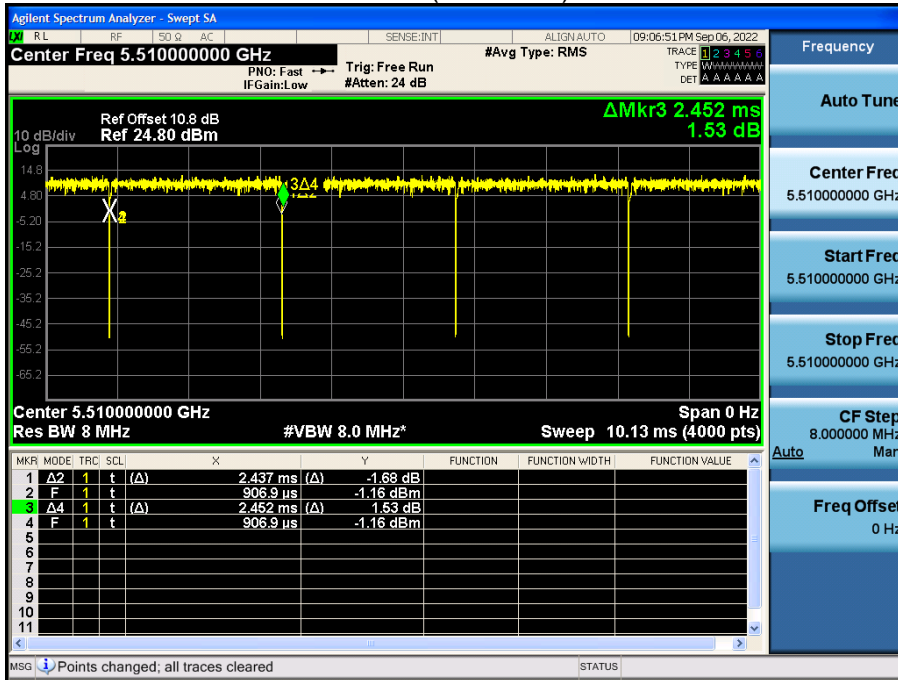
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



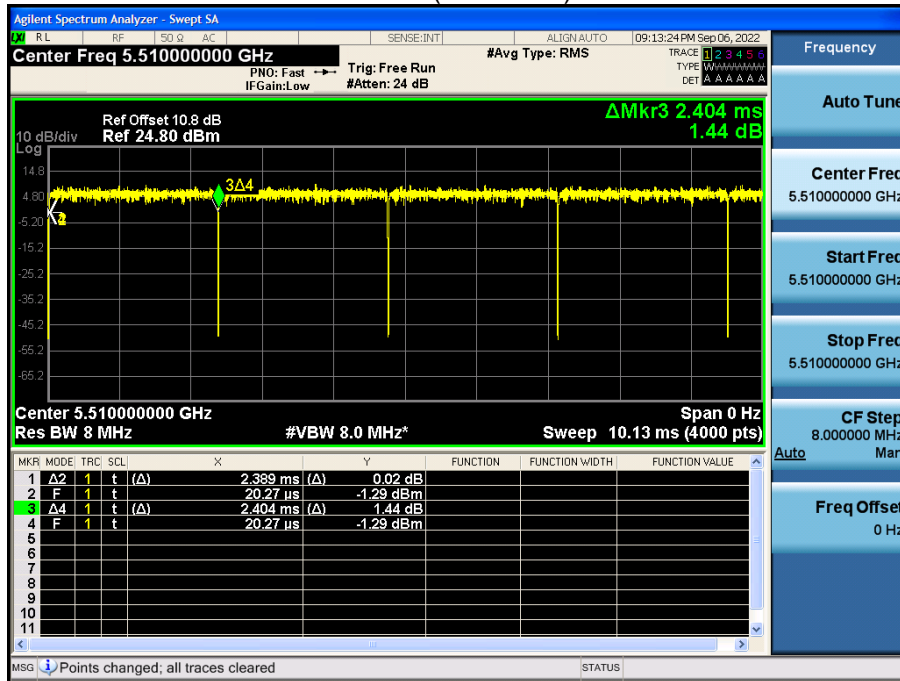
Bandwidth 40M Ch.102(5510 MHz) 52Tone MCS0



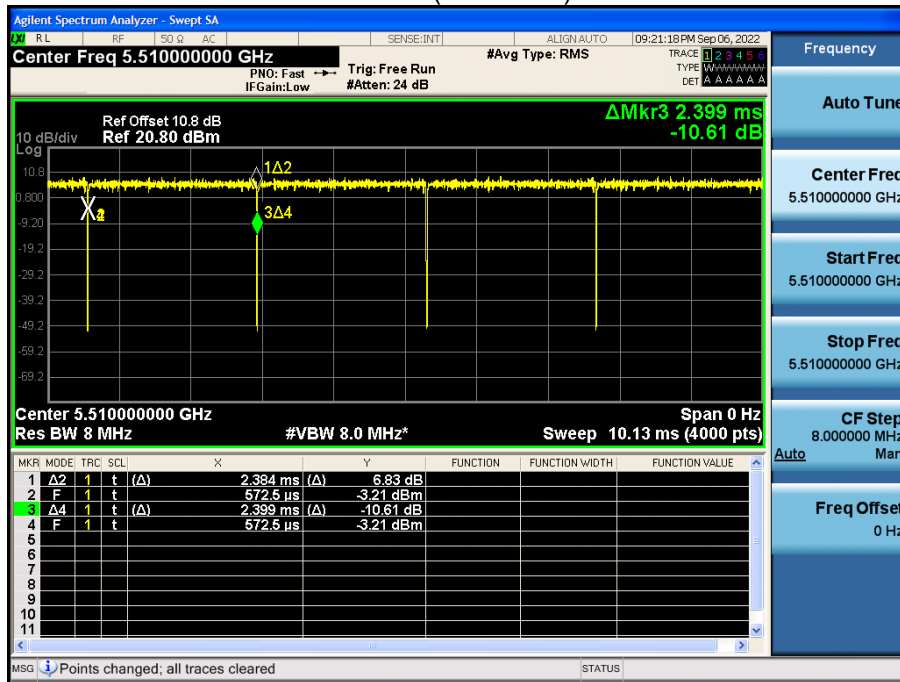
Bandwidth 40M Ch.102(5510 MHz) 106Tone MCS0



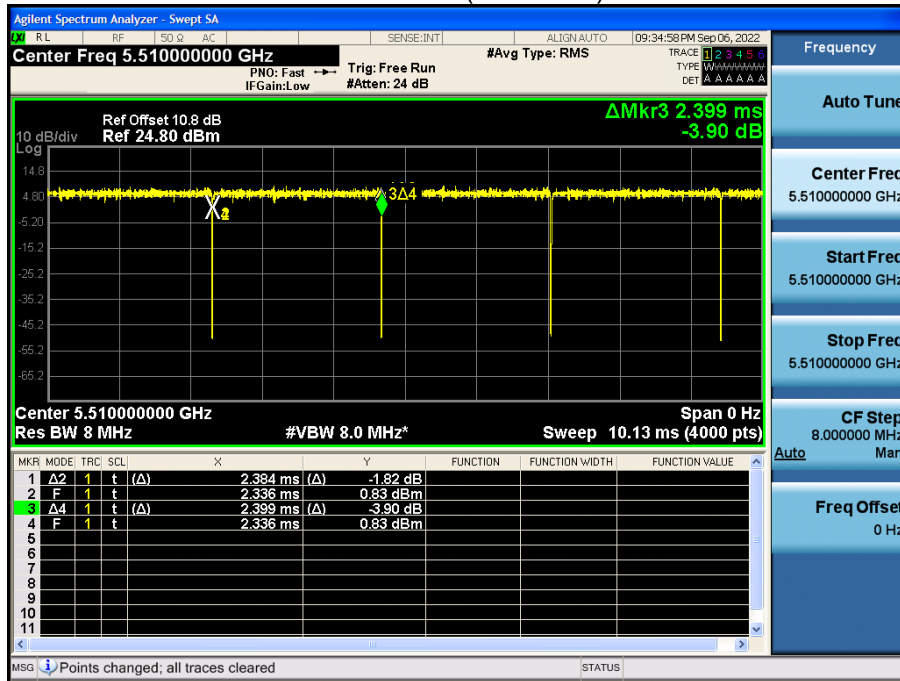
Bandwidth 40M Ch.102(5510 MHz) 242Tone MCS0



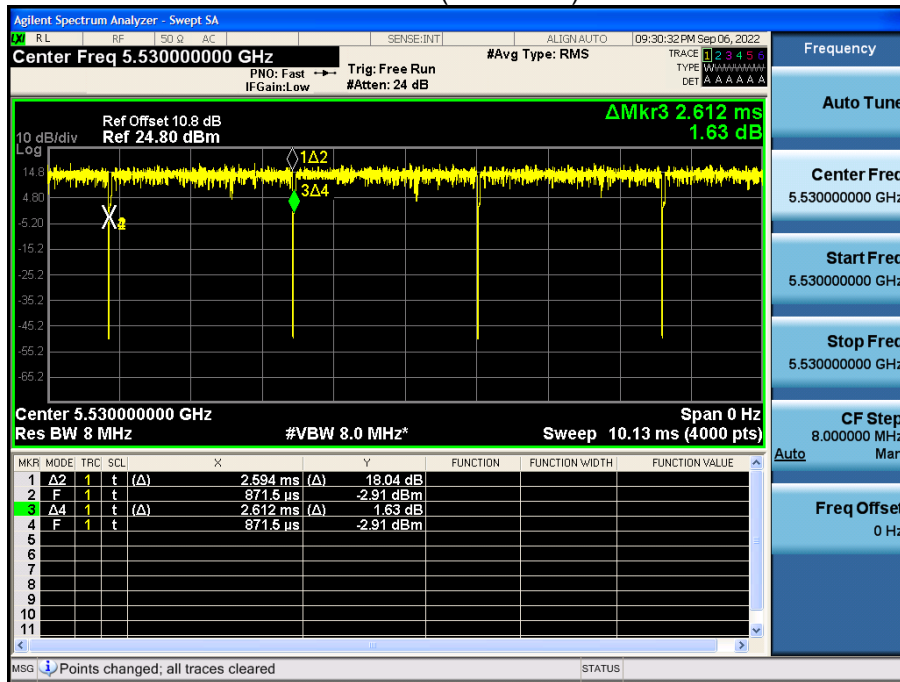
Bandwidth 40M Ch.102(5510 MHz) 484Tone MCS0



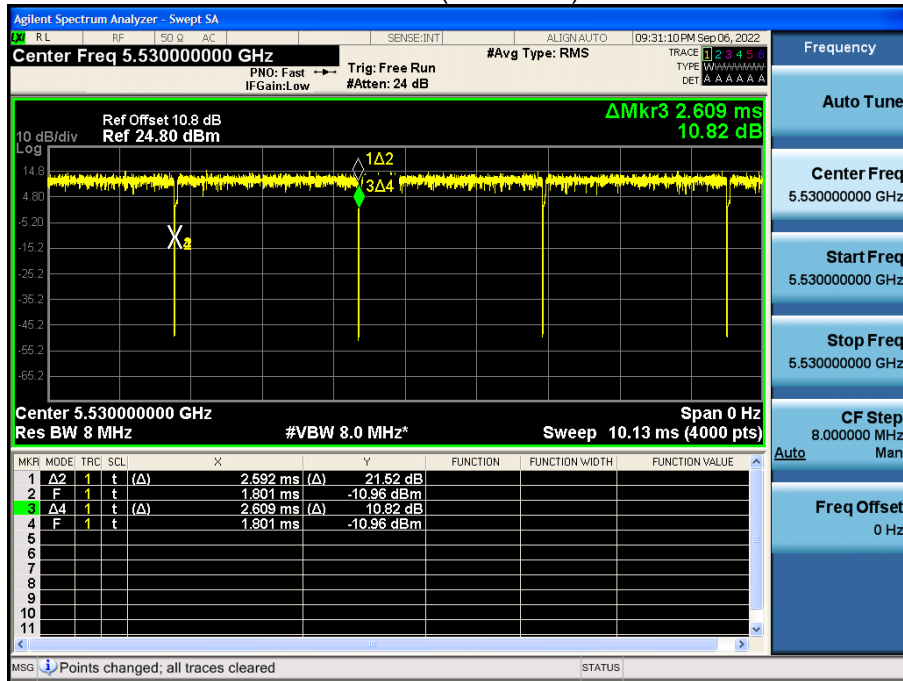
Bandwidth 40M Ch.102(5510 MHz) SU MCS0



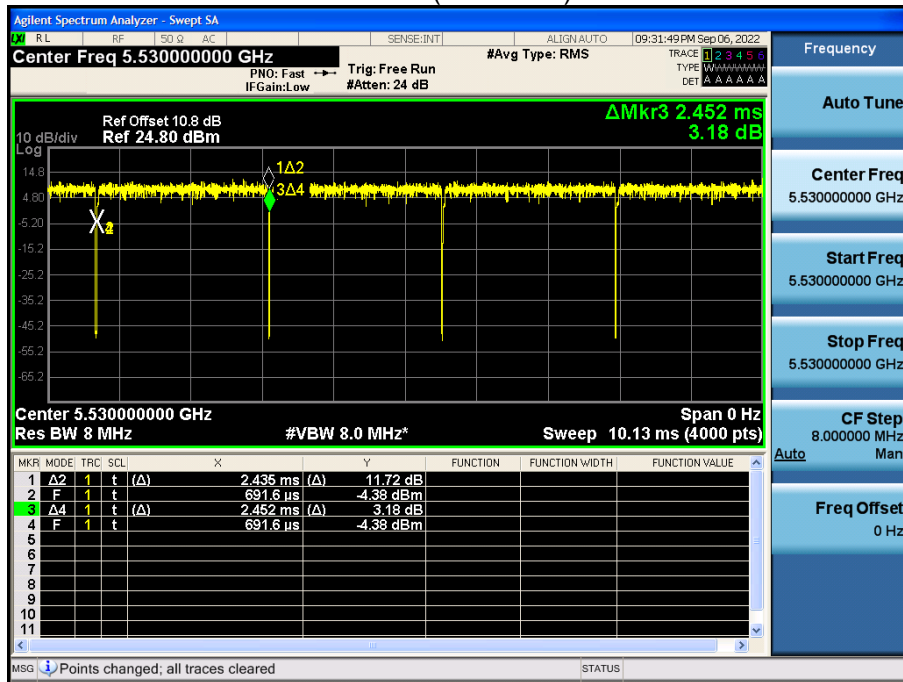
Bandwidth 80M Ch.106(5530 MHz) 26Tone MCS0



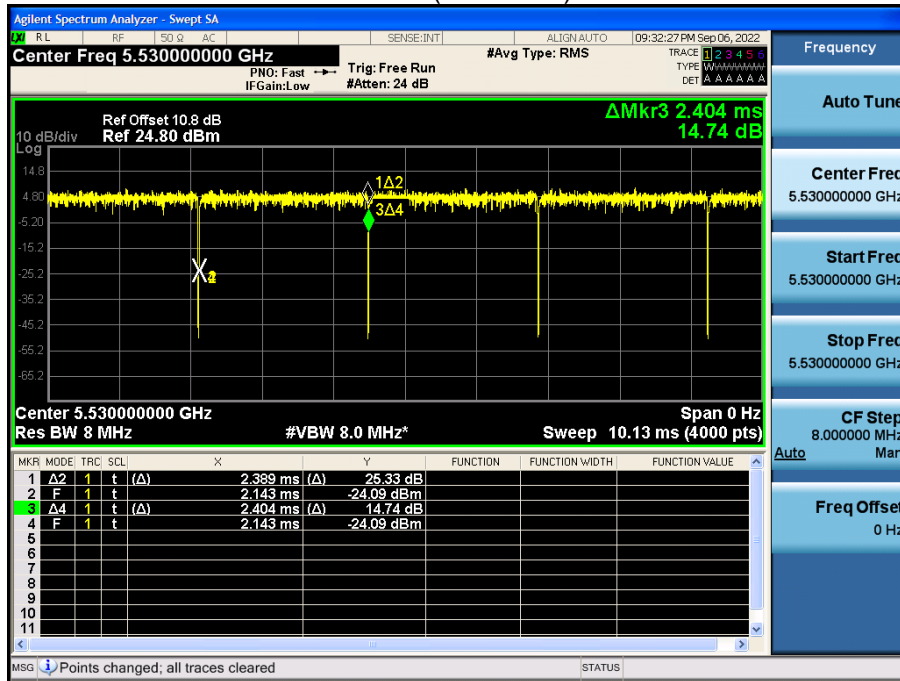
Bandwidth 80M Ch.106(5530 MHz) 52Tone MCS0



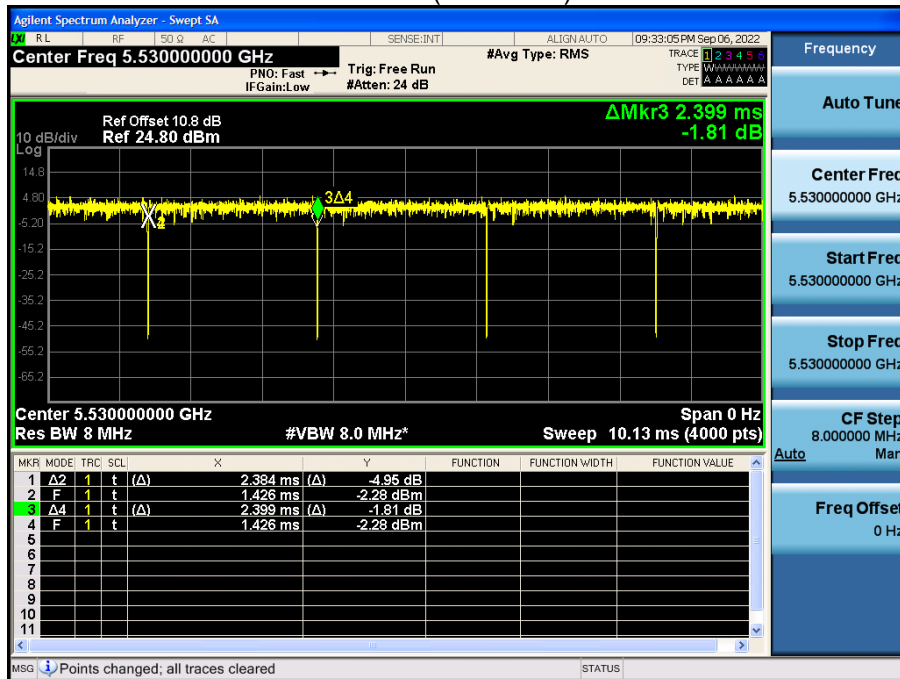
Bandwidth 80M Ch.106(5530 MHz) 106Tone MCS0



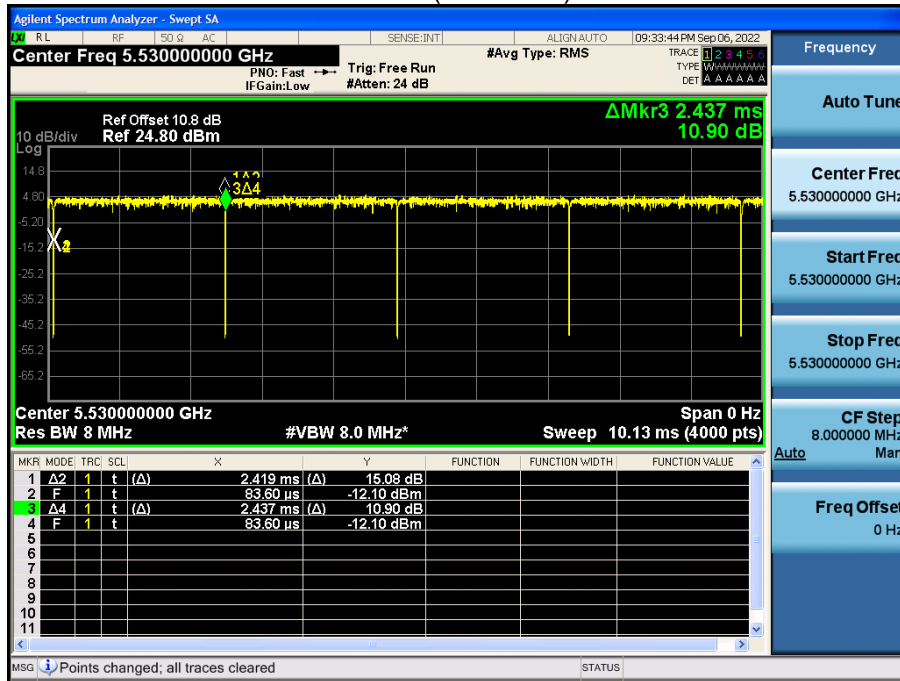
Bandwidth 80M Ch.106(5530 MHz) 242Tone MCS0



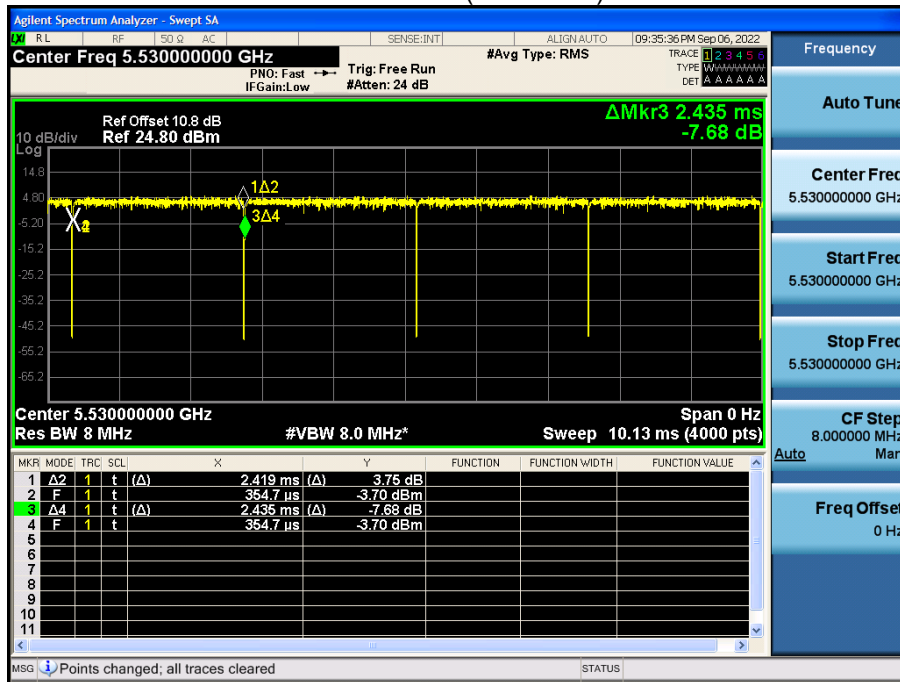
Bandwidth 80M Ch.106(5530 MHz) 484Tone MCS0



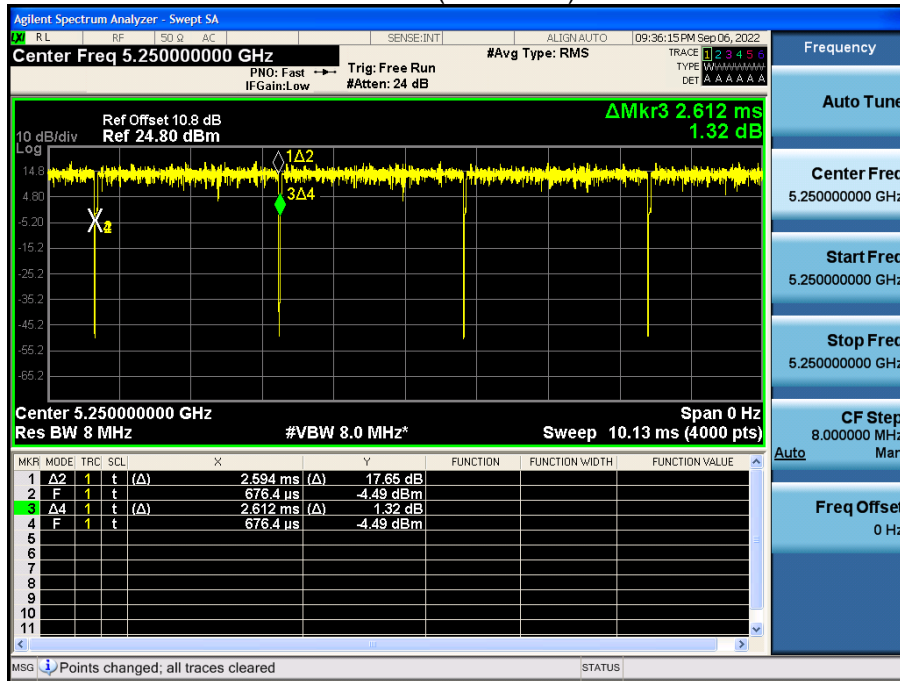
Bandwidth 80M Ch.106(5530 MHz) 996Tone MCS0



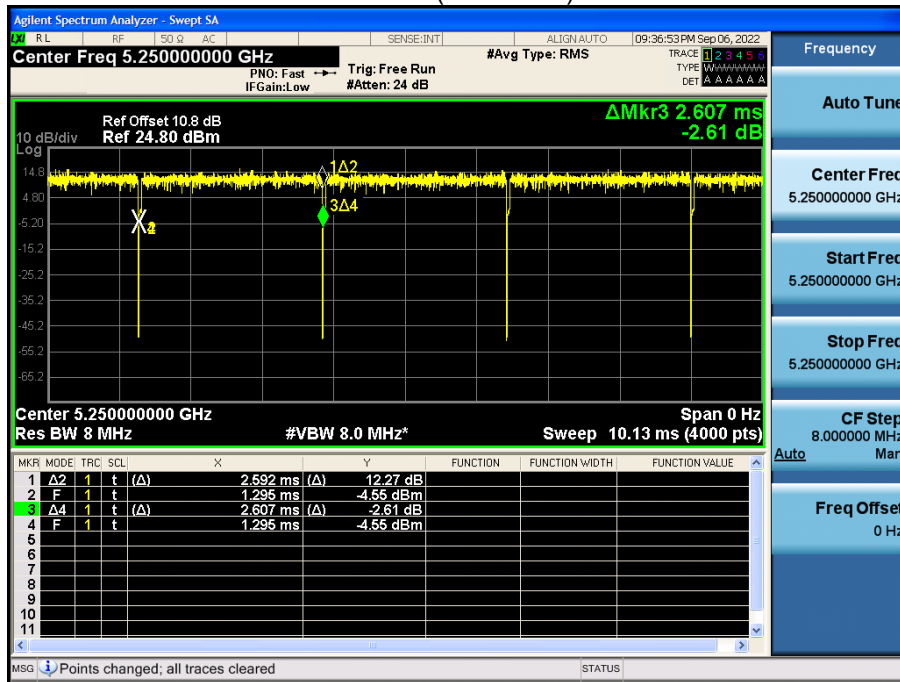
Bandwidth 80M Ch.106(5530 MHz) SU MCS0



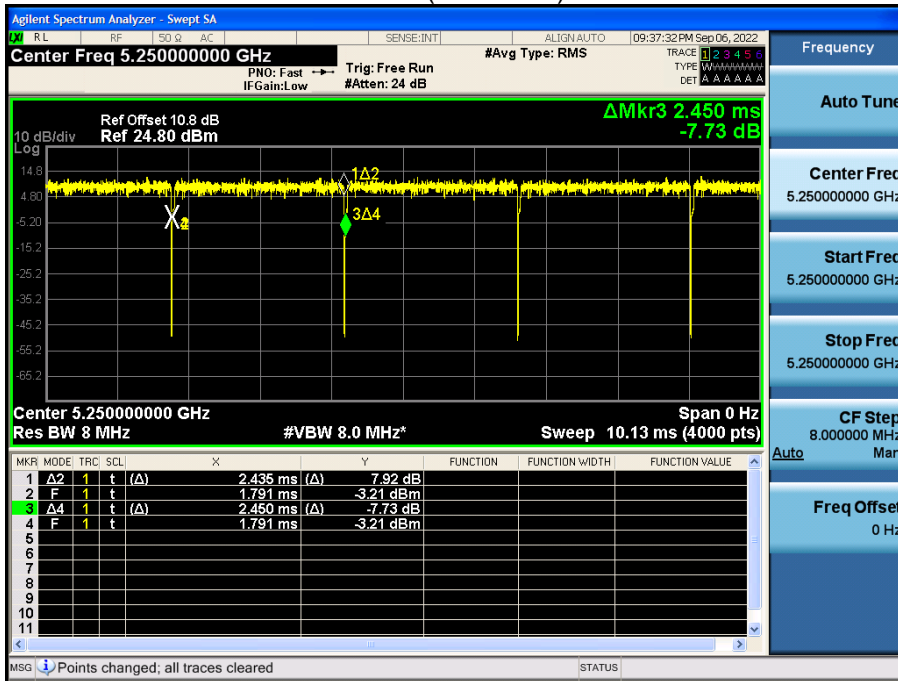
Bandwidth 160M Ch.50(5250 MHz) 26 Tone MCS0



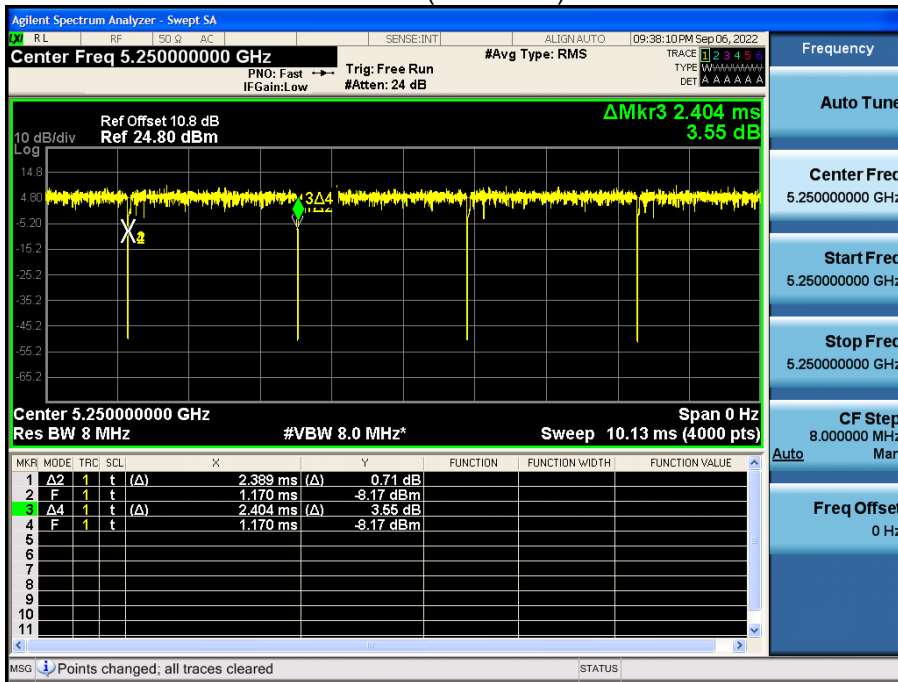
Bandwidth 160M Ch.50(5250 MHz) 52 Tone MCS0



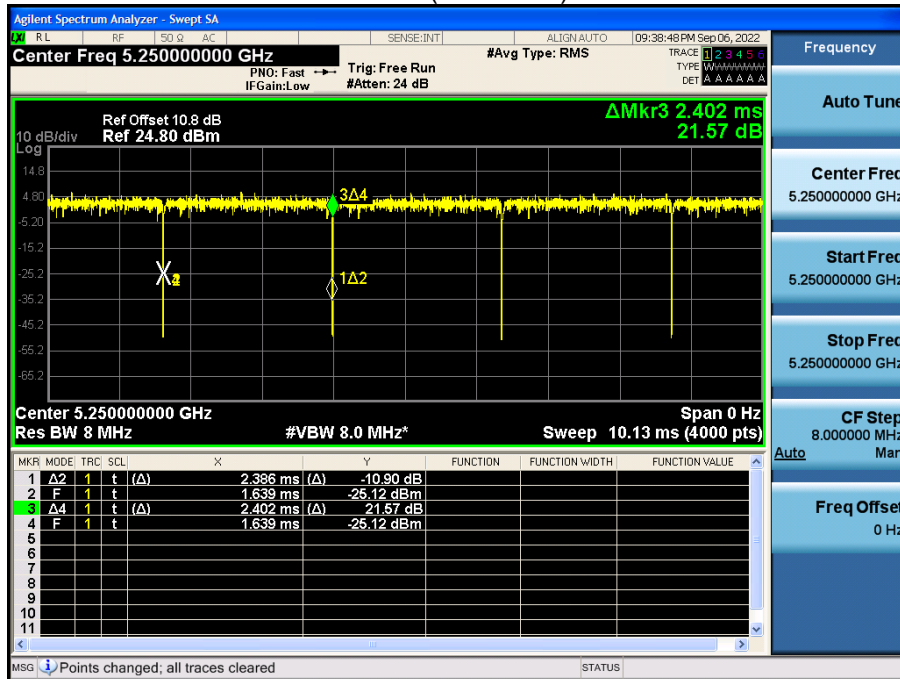
Bandwidth 160M Ch.50(5250 MHz) 106 Tone MCS0



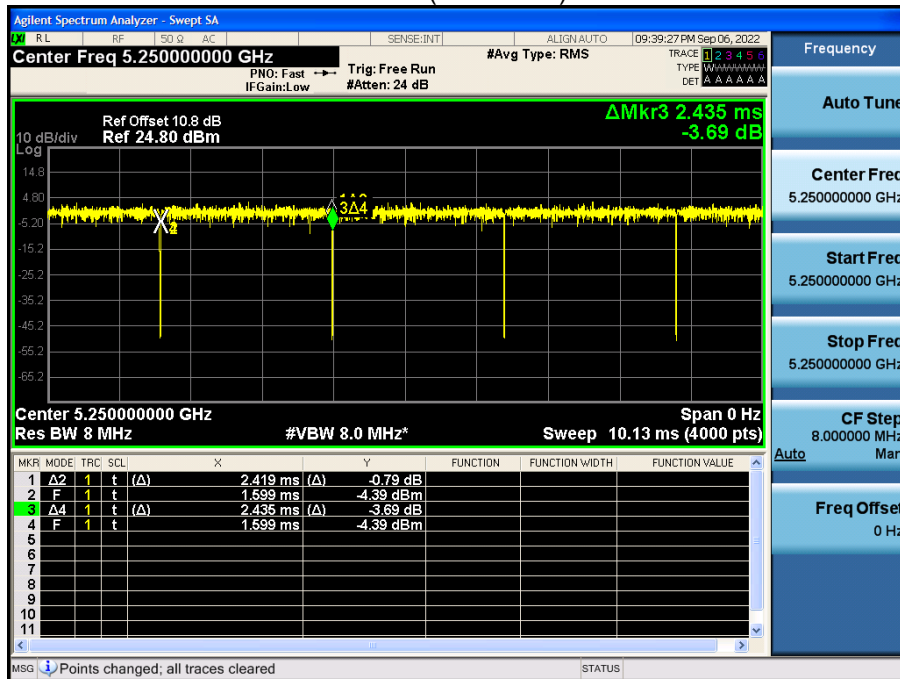
Bandwidth 160M Ch.50(5250 MHz) 242 Tone MCS0



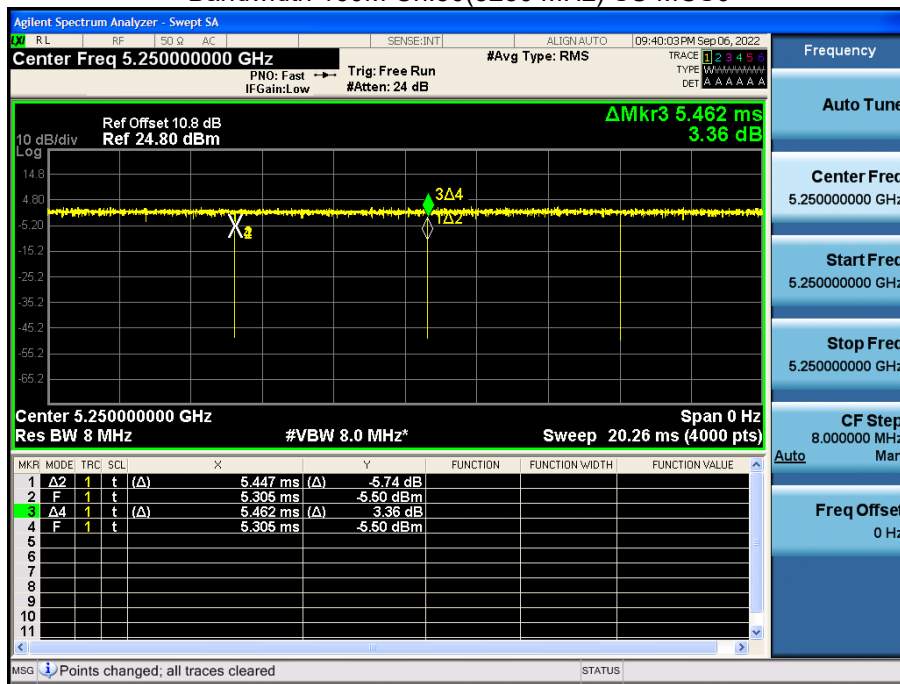
Bandwidth 160M Ch.50(5250 MHz) 484 Tone MCS0



Bandwidth 160M Ch.50(5250 MHz) 996 Tone MCS0



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

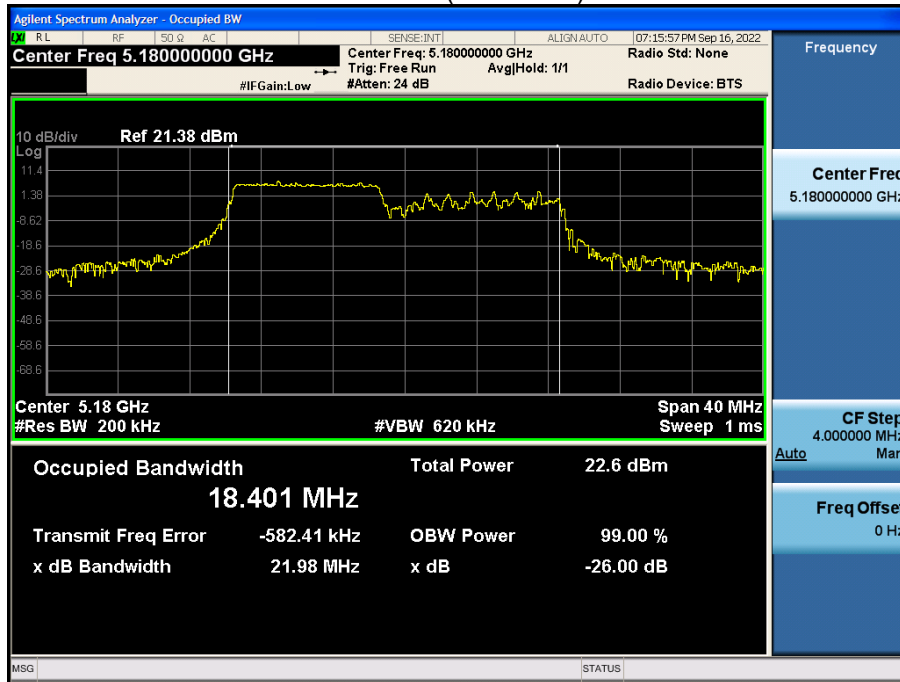


2. 26dB Bandwidth

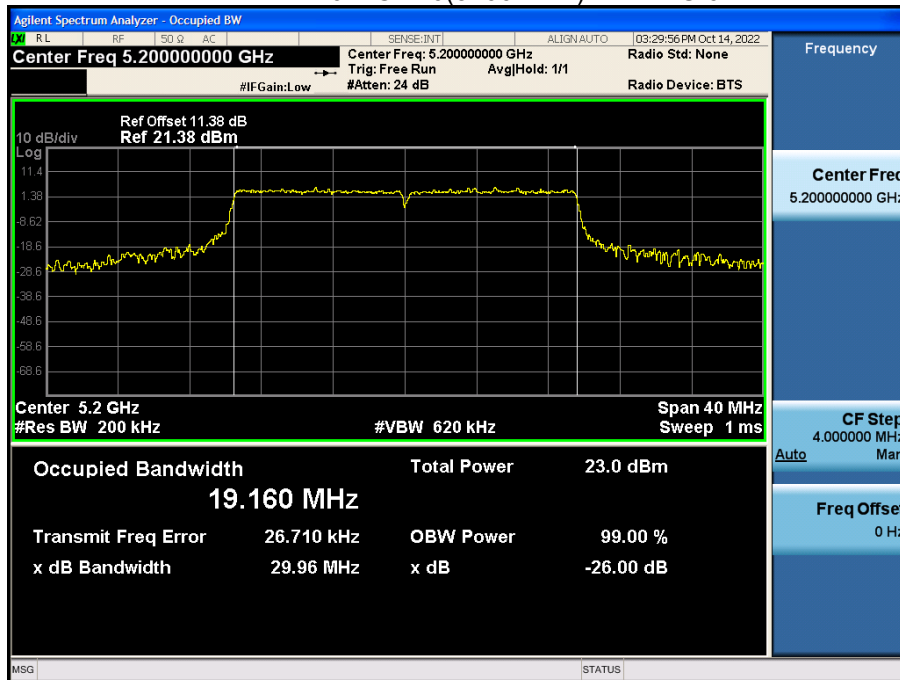
Note:

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

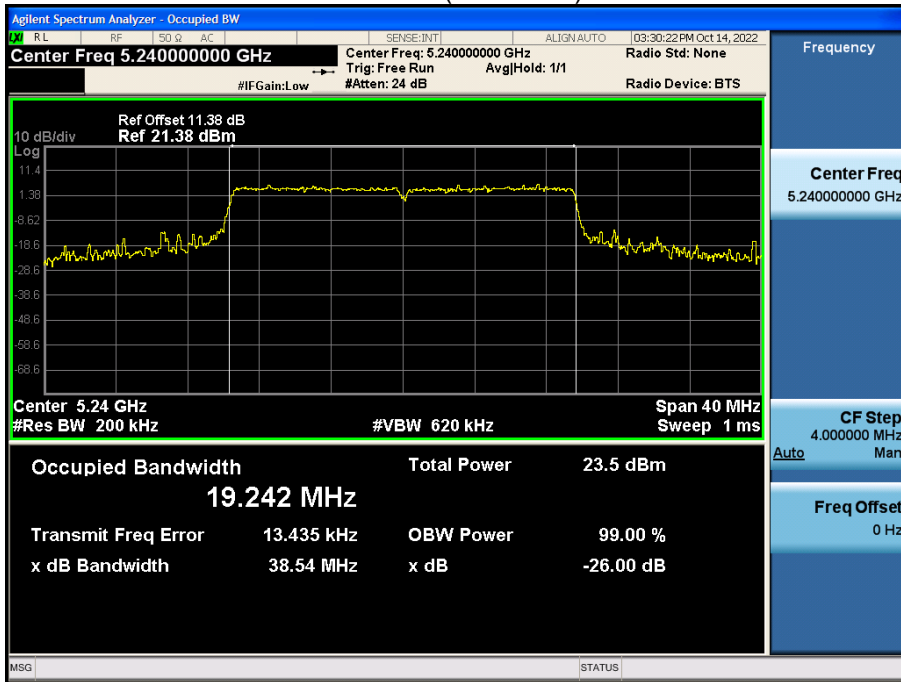
Bandwidth 20M Ch.36(5180 MHz) 106T RU 53



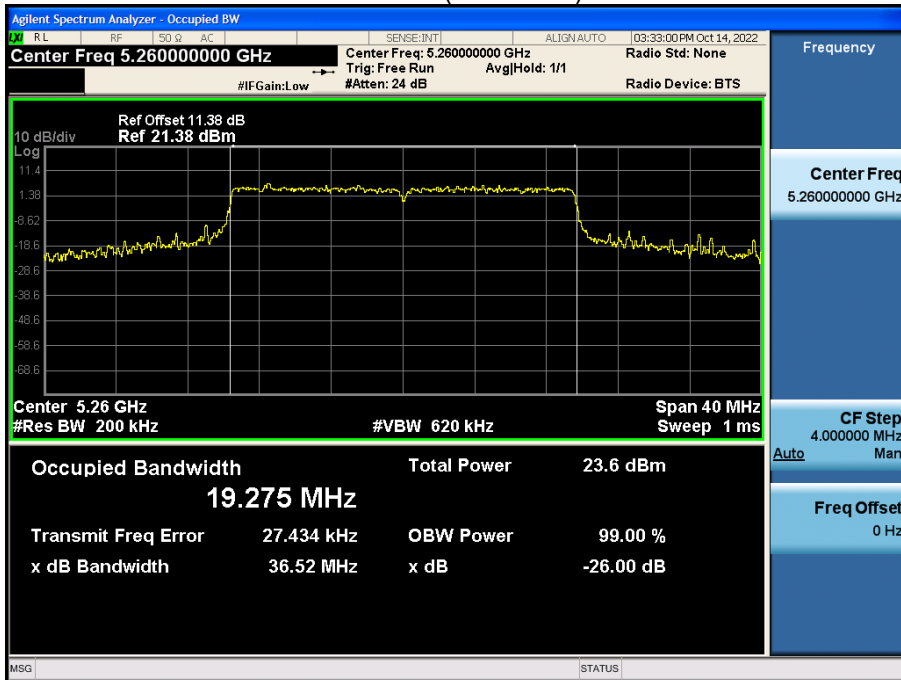
Bandwidth 20M Ch.40(5200 MHz) 242T RU 61



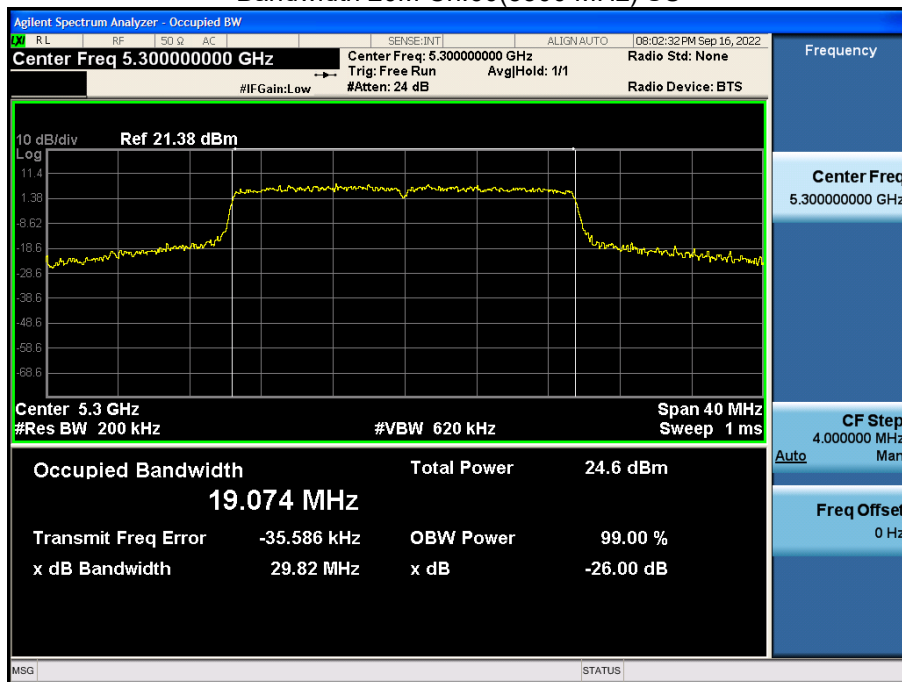
Bandwidth 20M Ch.48(5240 MHz) 242T RU 61



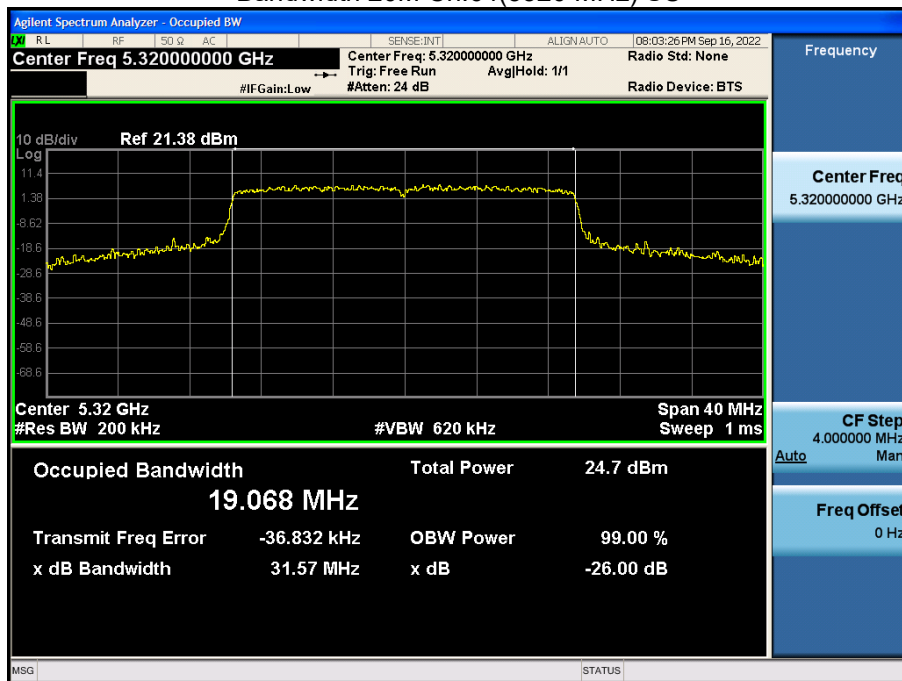
Bandwidth 20M Ch.52(5260 MHz) 242T RU 61



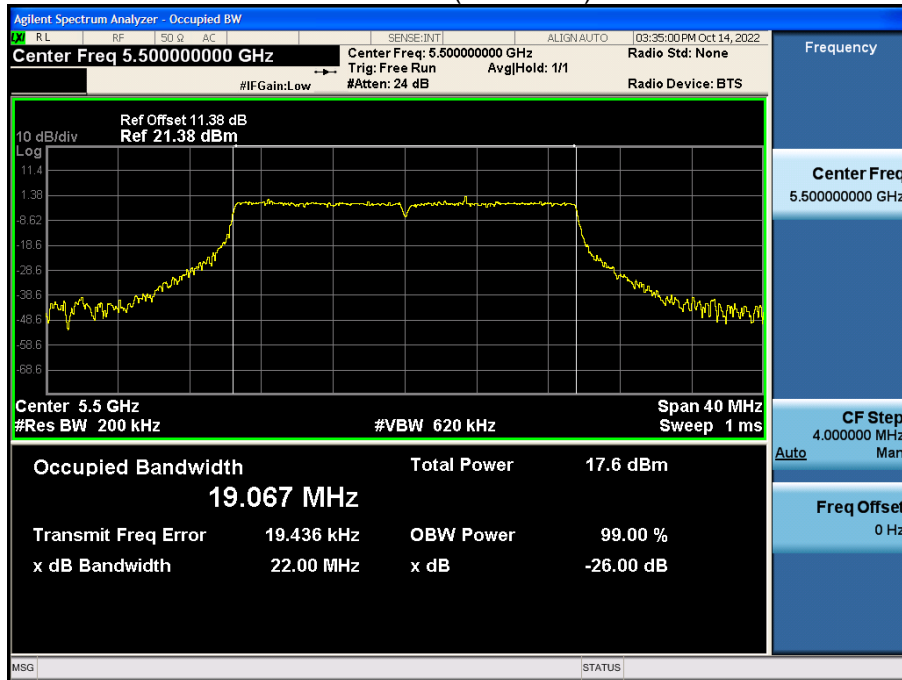
Bandwidth 20M Ch.60(5300 MHz) SU



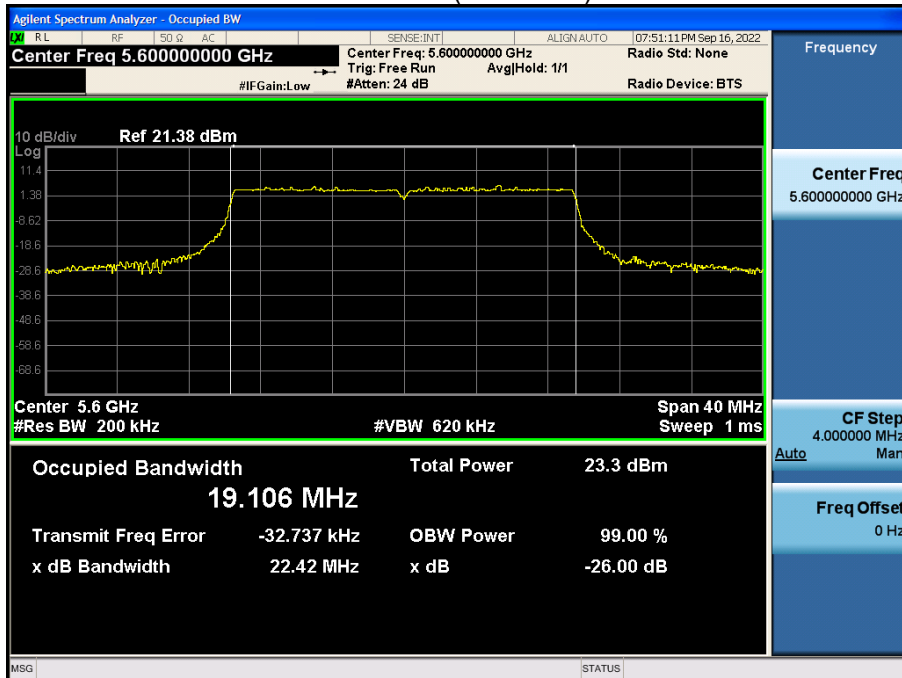
Bandwidth 20M Ch.64(5320 MHz) SU



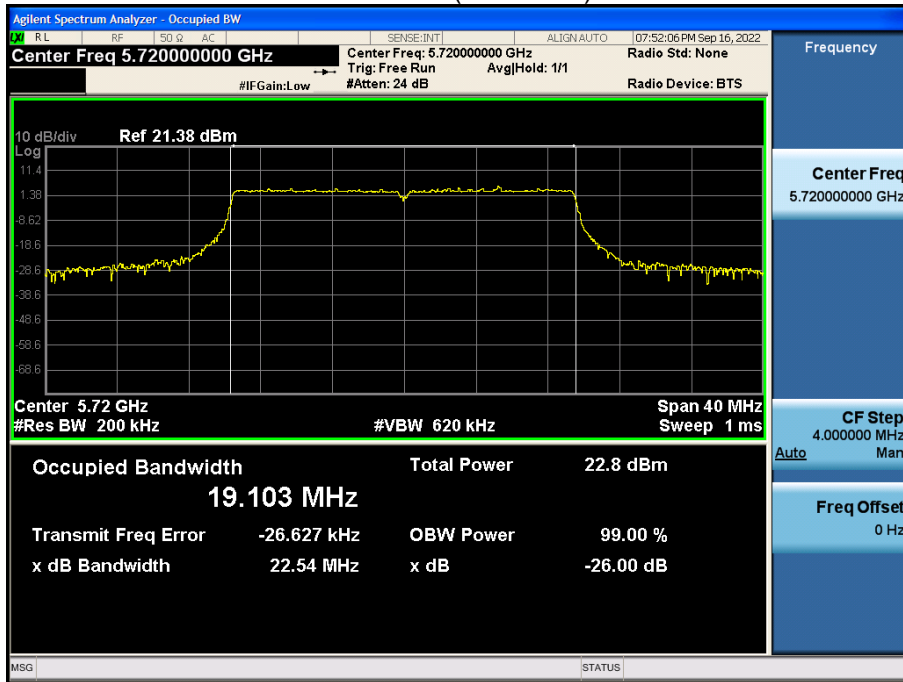
Bandwidth 20M Ch.100(5500 MHz) 242T RU 61



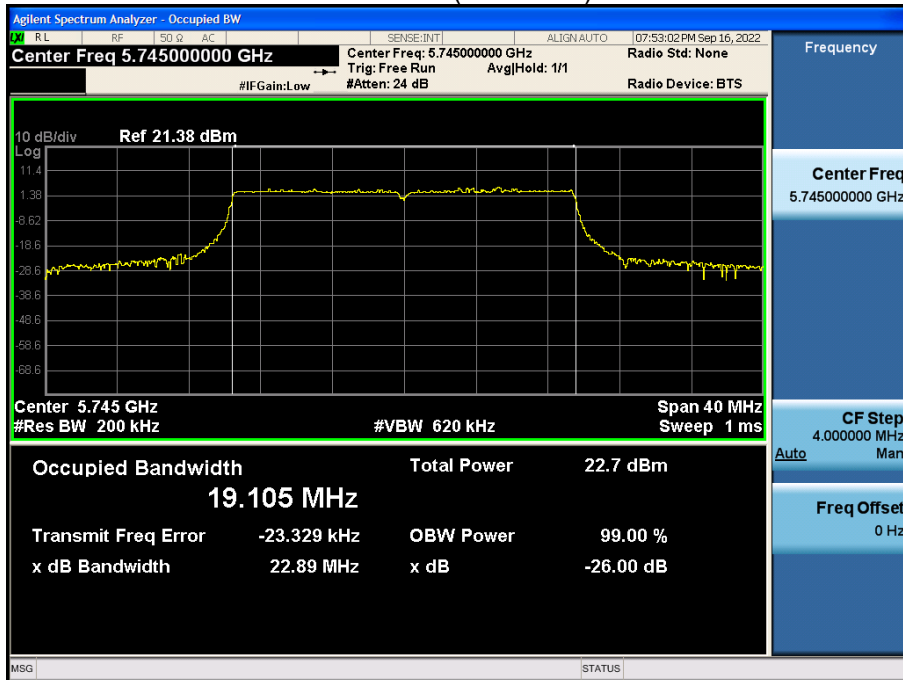
Bandwidth 20M Ch.120(5600 MHz) 242T RU 61



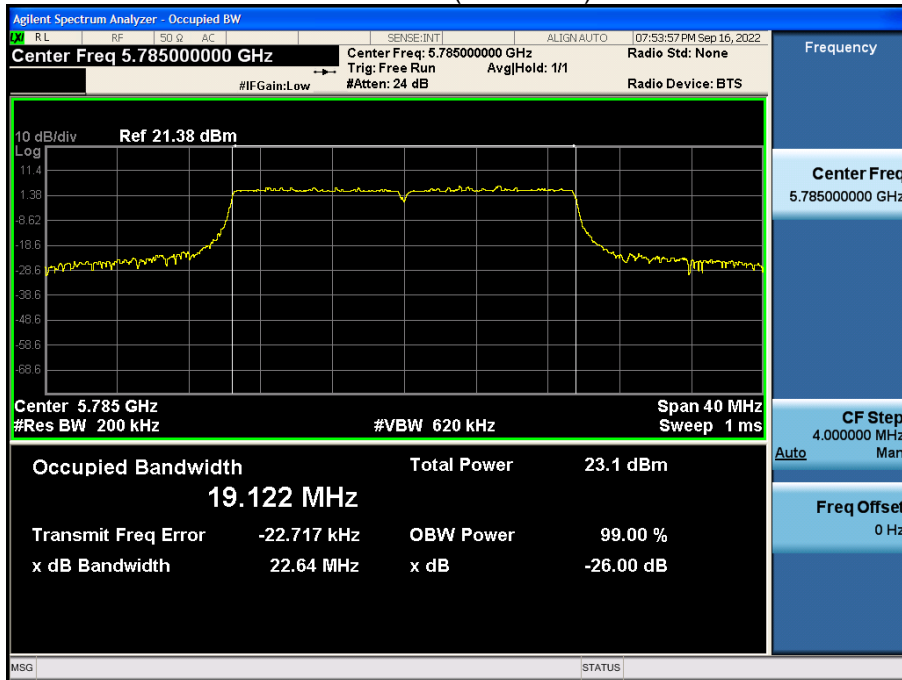
Bandwidth 20M Ch.144(5720 MHz) 242T RU 61



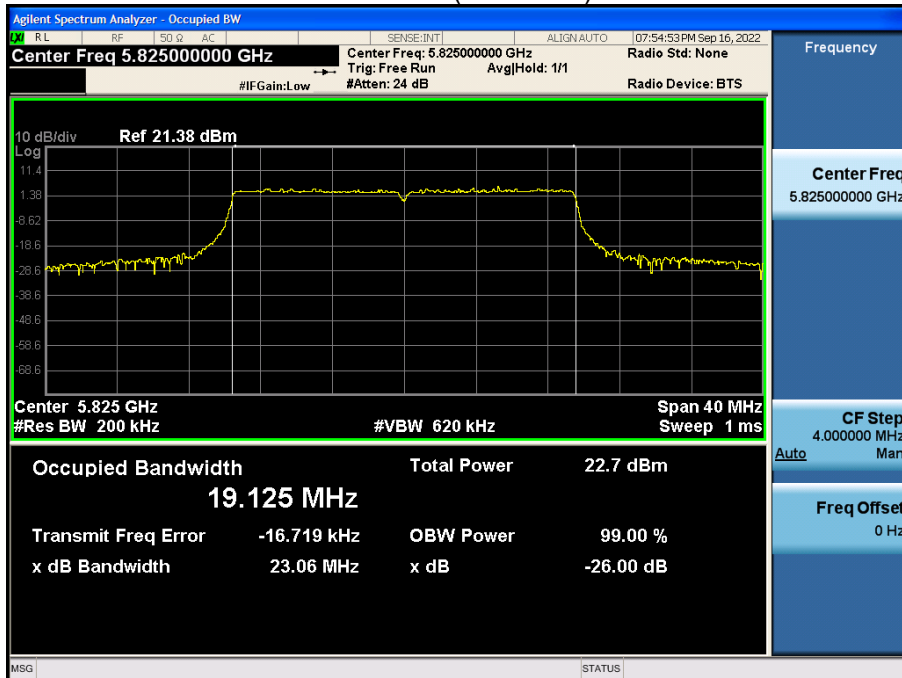
Bandwidth 20M Ch.149(5745 MHz) 242T RU 61



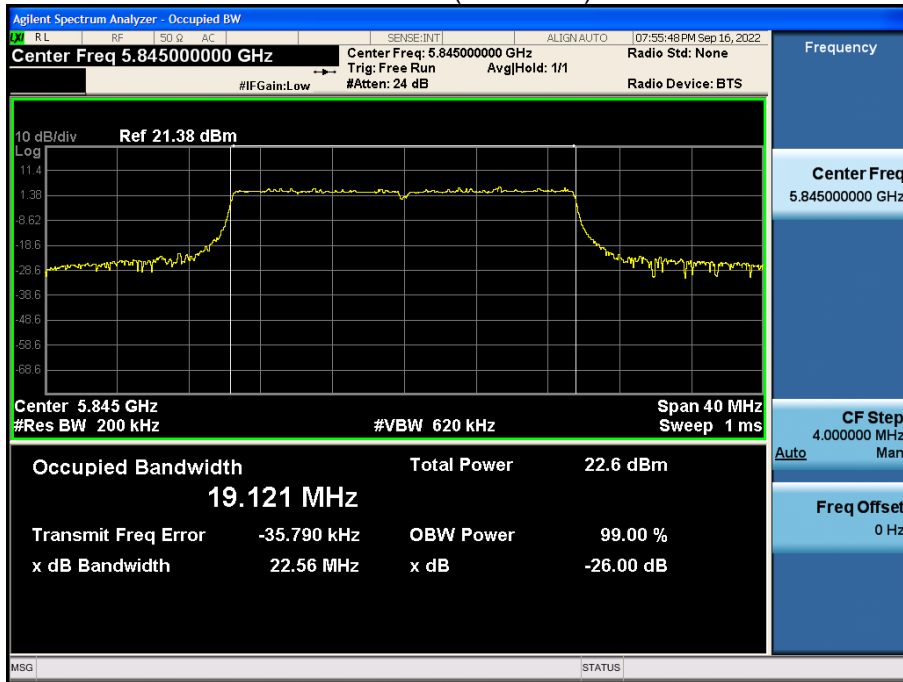
Bandwidth 20M Ch.157(5785 MHz) 242T RU 61



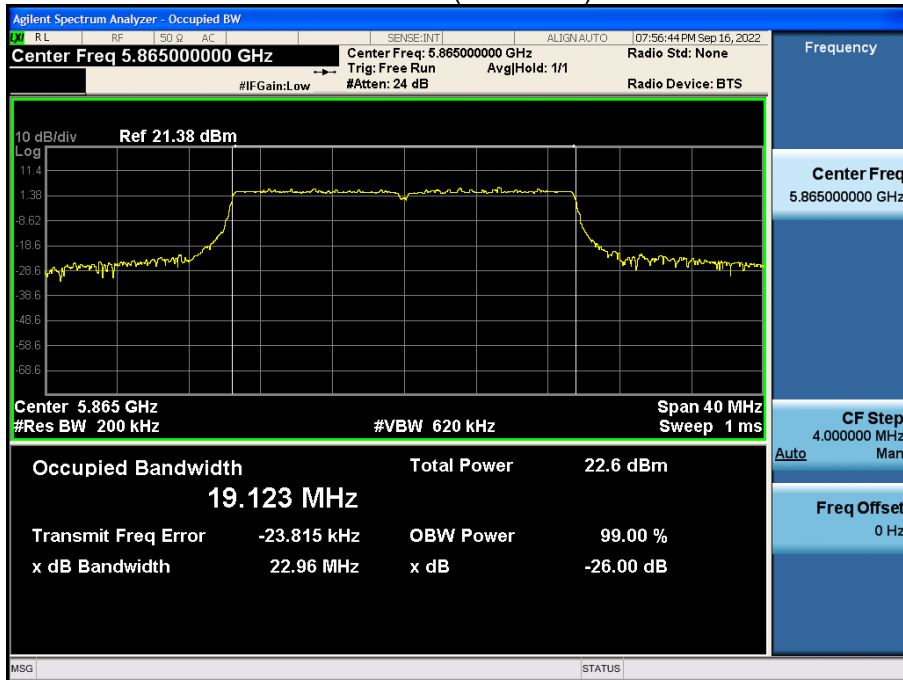
Bandwidth 20M Ch.165(5825 MHz) 242T RU 61



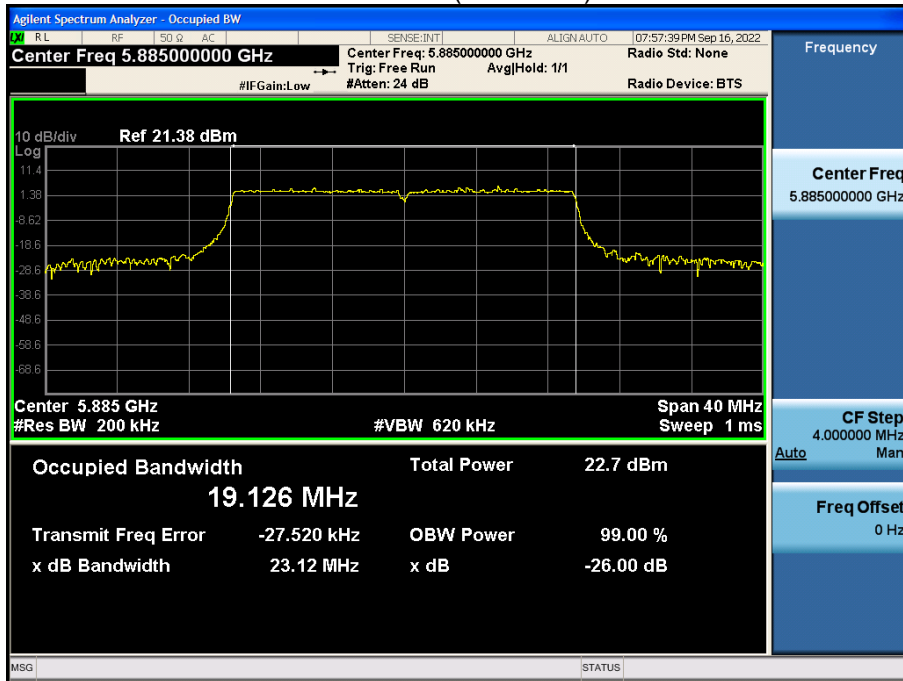
Bandwidth 20M Ch.169(5845 MHz) 242T RU 61



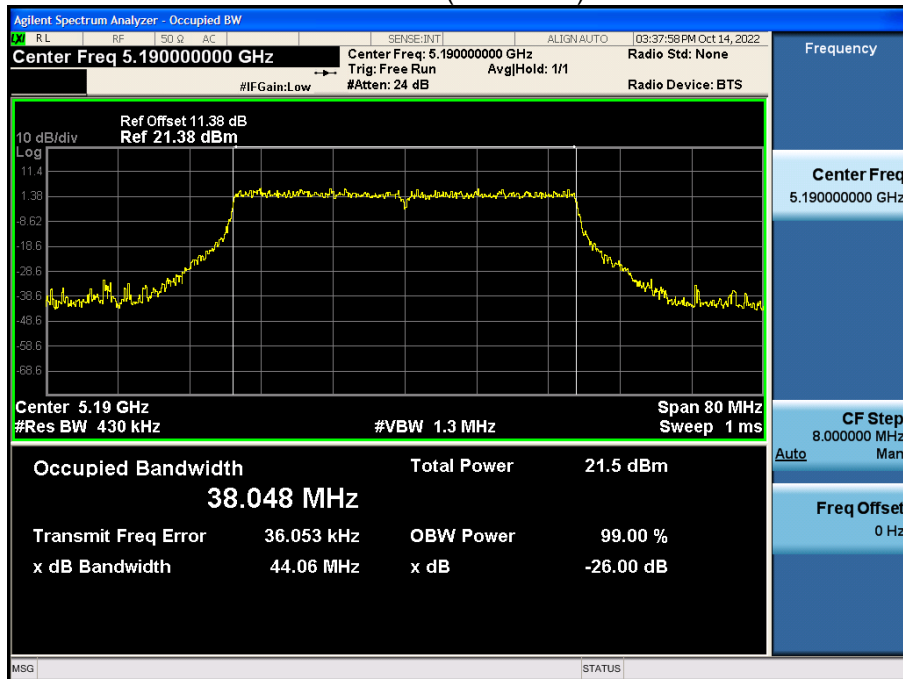
Bandwidth 20M Ch.173(5865 MHz) 242T RU 61



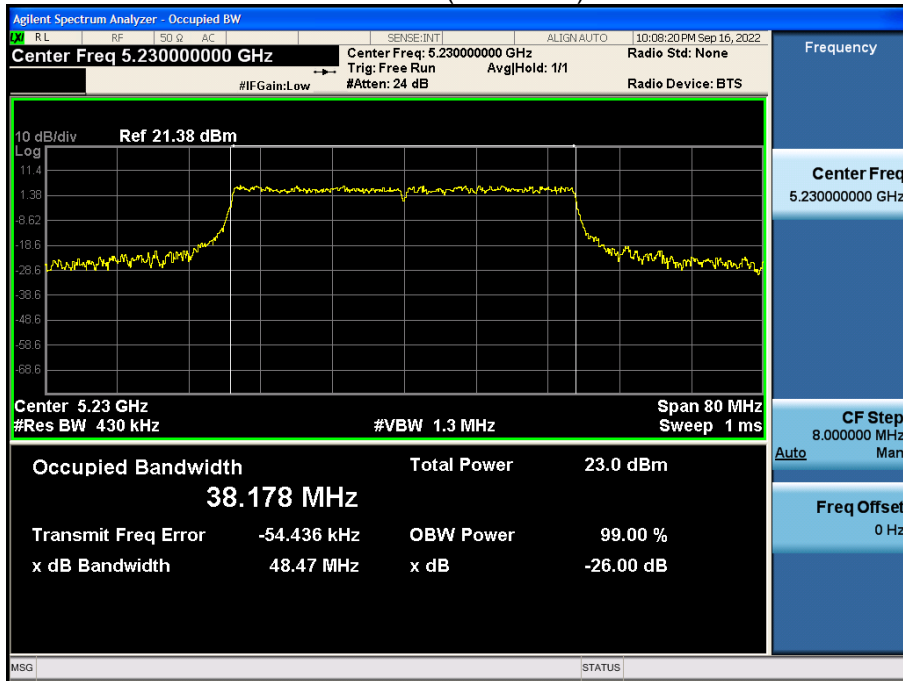
Bandwidth 20M Ch.177(5885 MHz) 242T RU 61



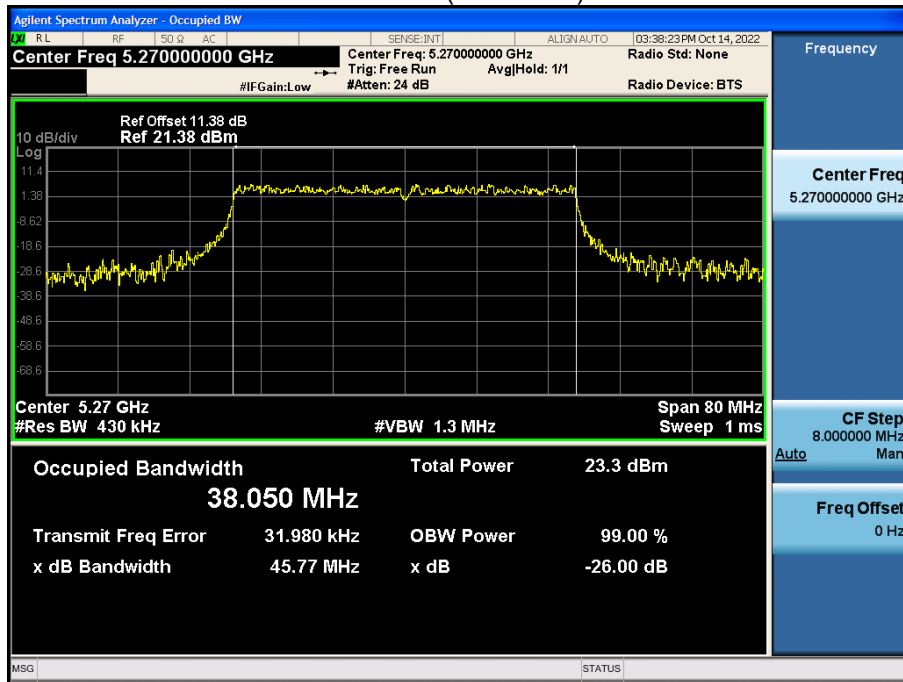
Bandwidth 40M Ch.38(5190 MHz) 484T RU 65



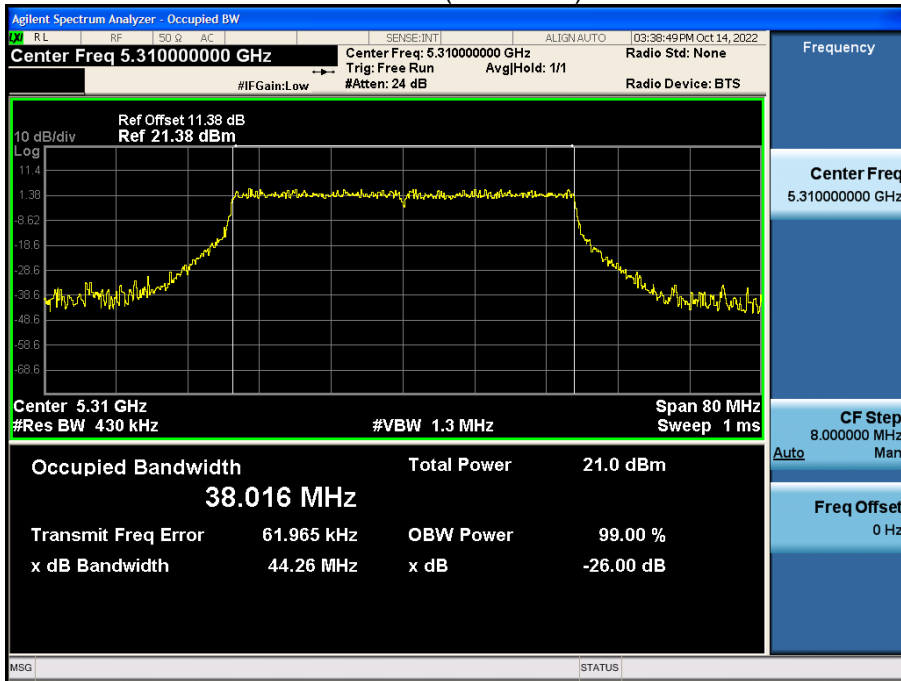
Bandwidth 40M Ch.46(5230 MHz) 484T RU 65



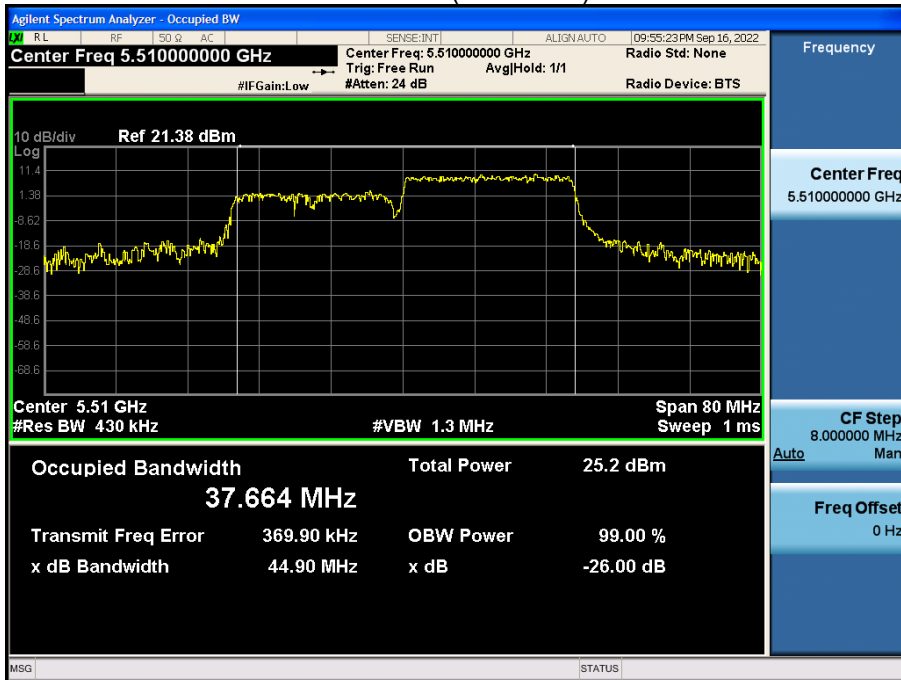
Bandwidth 40M Ch.54(5270 MHz) 484T RU 65



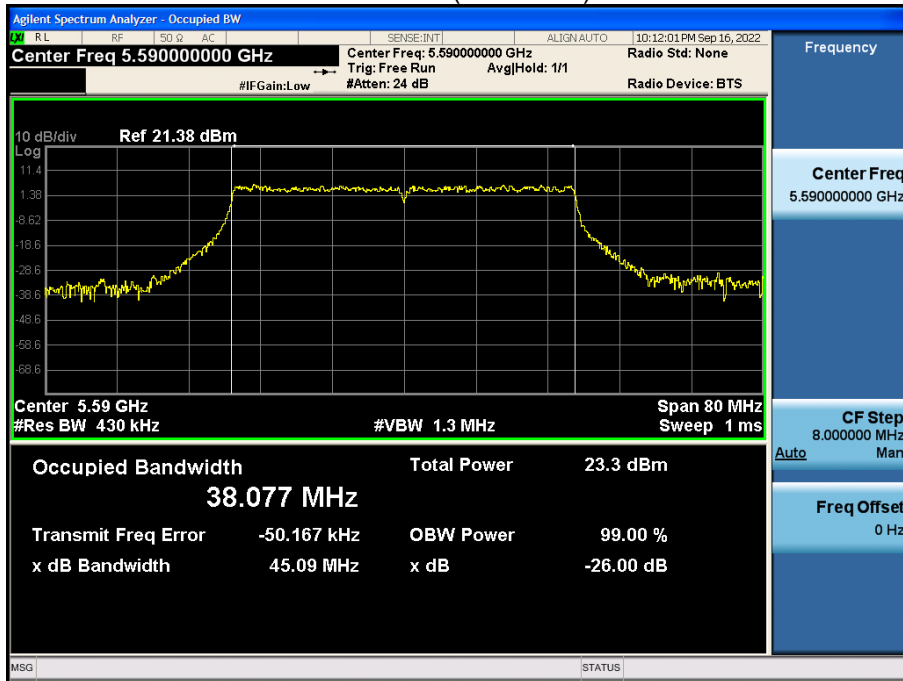
Bandwidth 40M Ch.62(5310 MHz) 484T RU 65



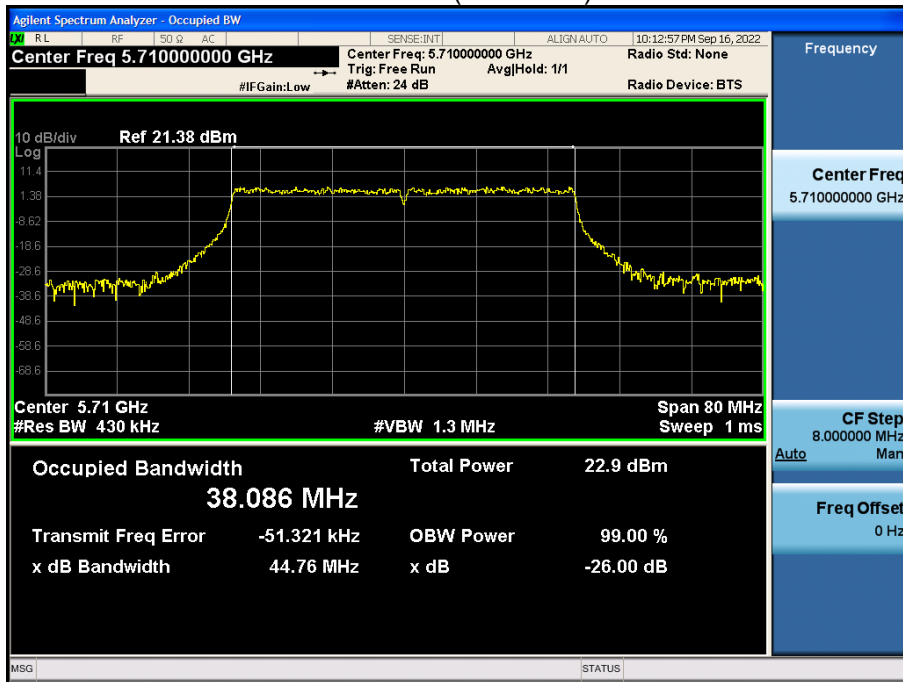
Bandwidth 40M Ch.102(5510 MHz) 242T RU 62



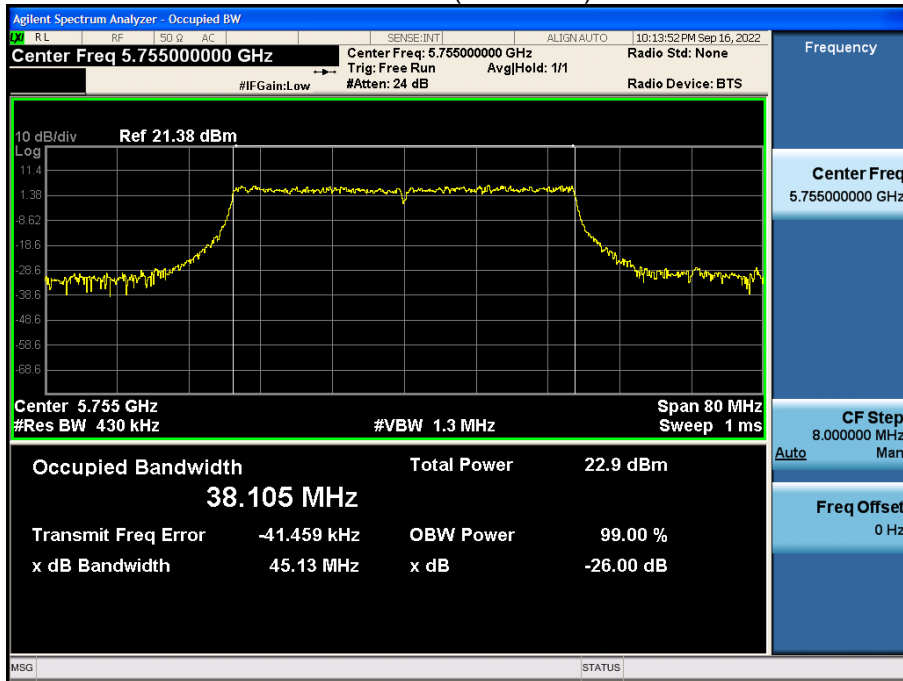
Bandwidth 40M Ch.118(5590 MHz) 484T RU 65



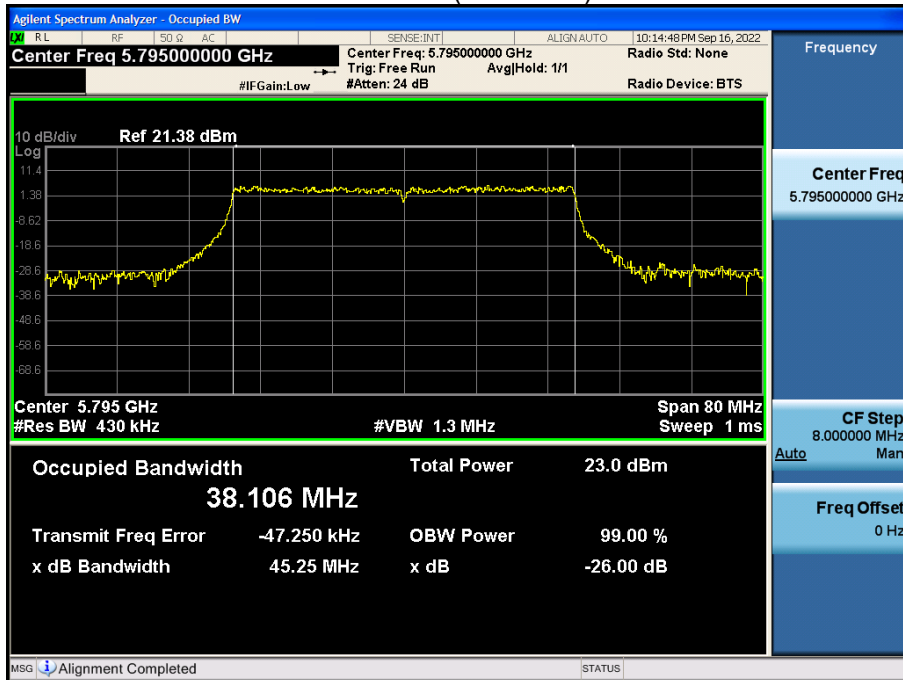
Bandwidth 40M Ch.142(5710 MHz) 484T RU 65



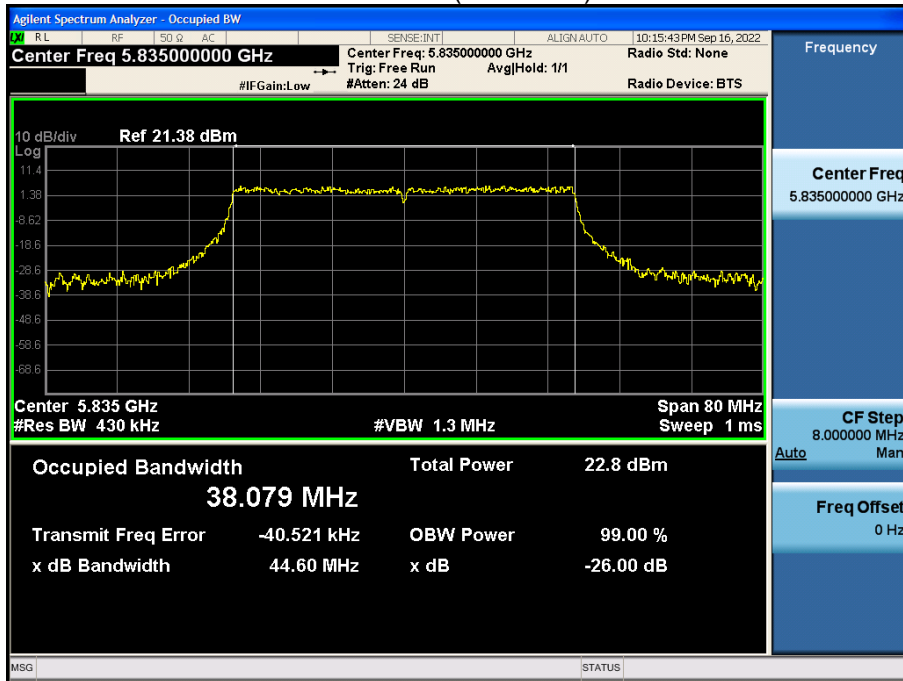
Bandwidth 40M Ch.151(5755 MHz) 484T RU 65



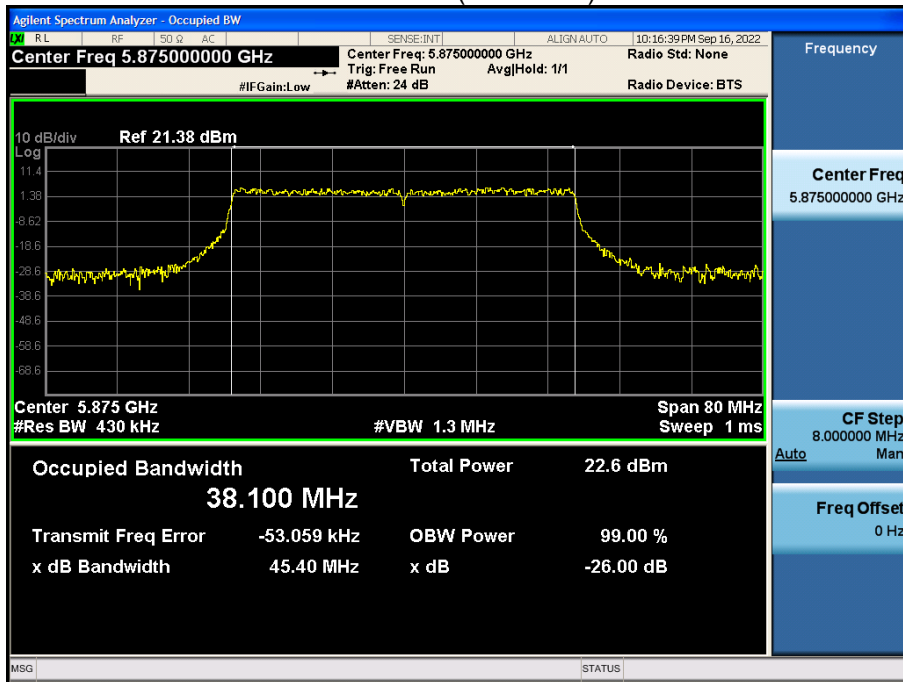
Bandwidth 40M Ch.159(5795 MHz) 484T RU 65



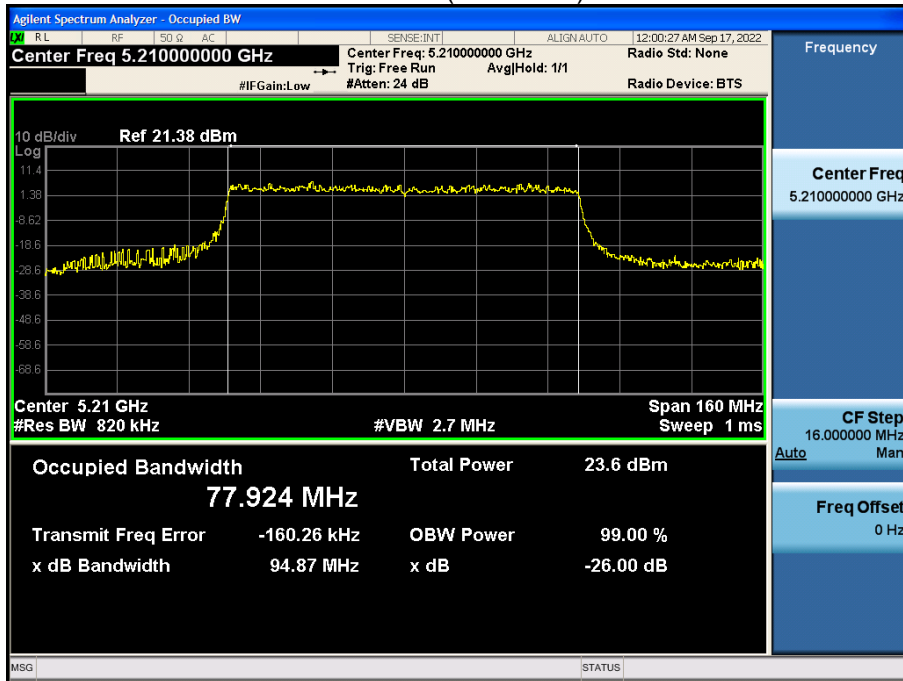
Bandwidth 40M Ch.167(5835 MHz) 484T RU 65



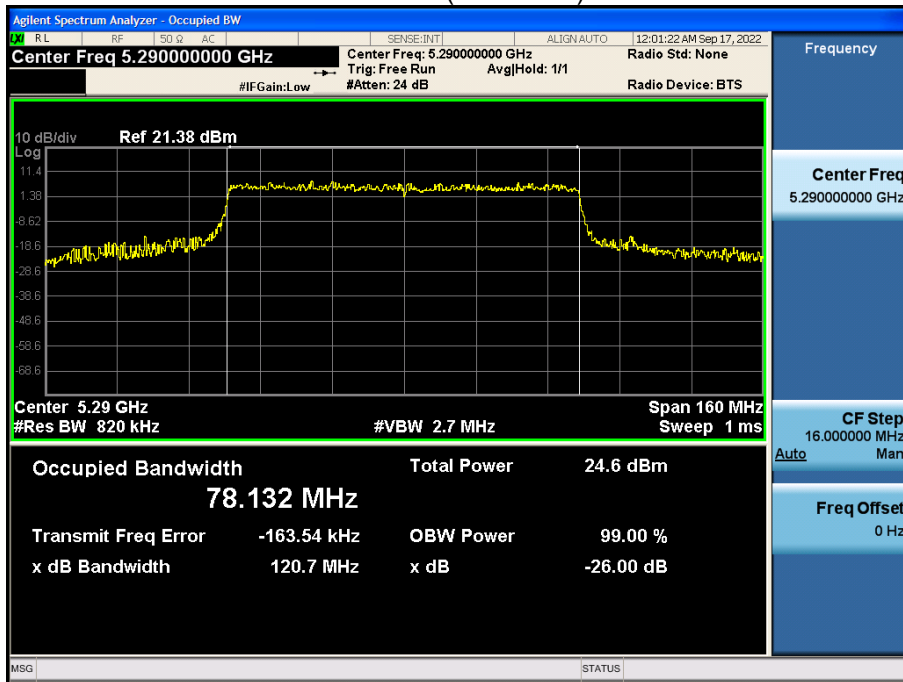
Bandwidth 40M Ch.175 (5875 MHz) 484T RU 65



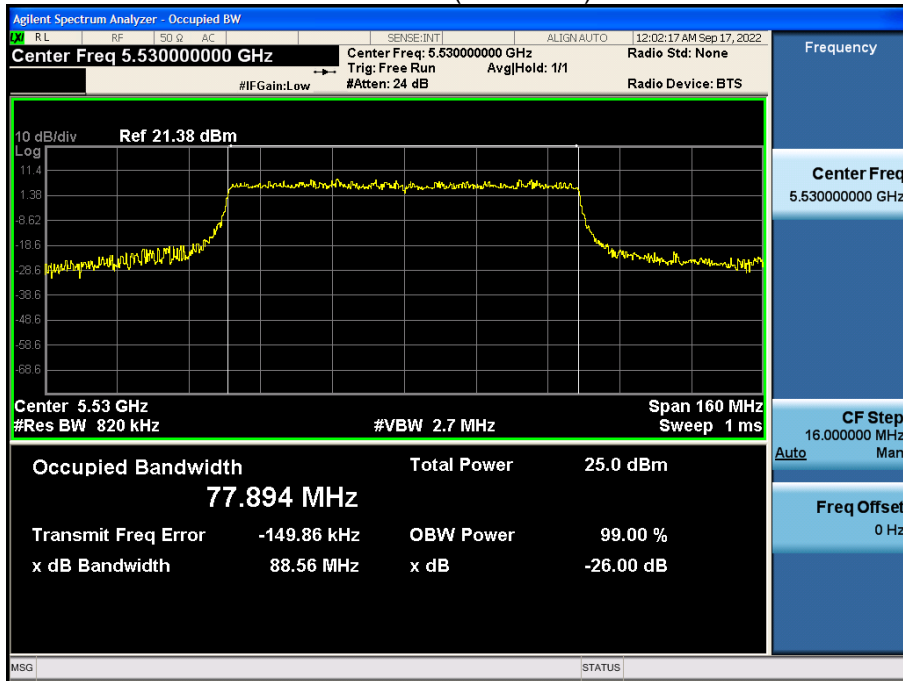
Bandwidth 80M Ch.42(5210 MHz) 996T RU 67



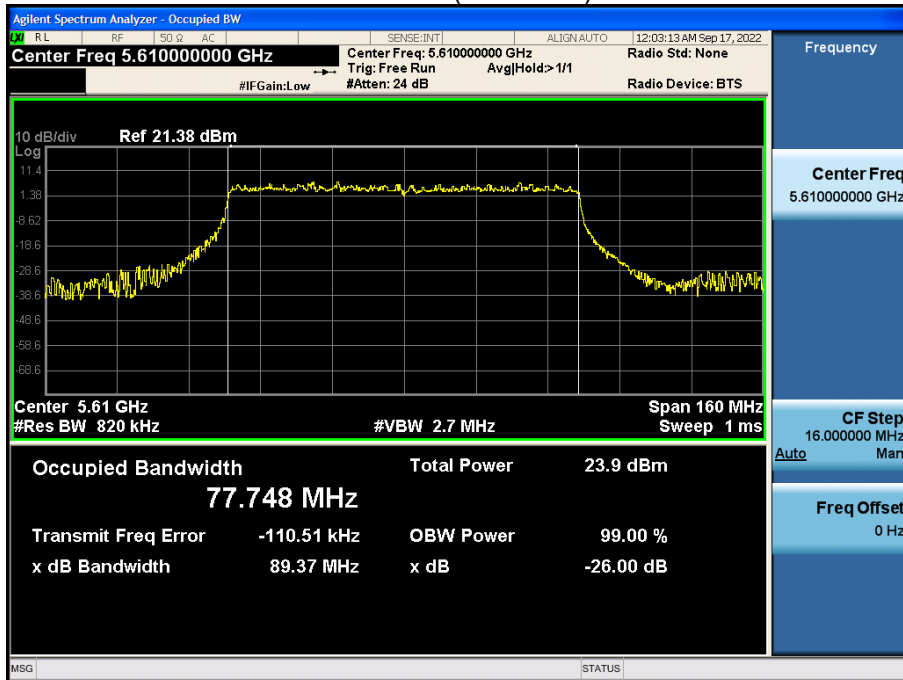
Bandwidth 80M Ch.58(5290 MHz) 996T RU 67



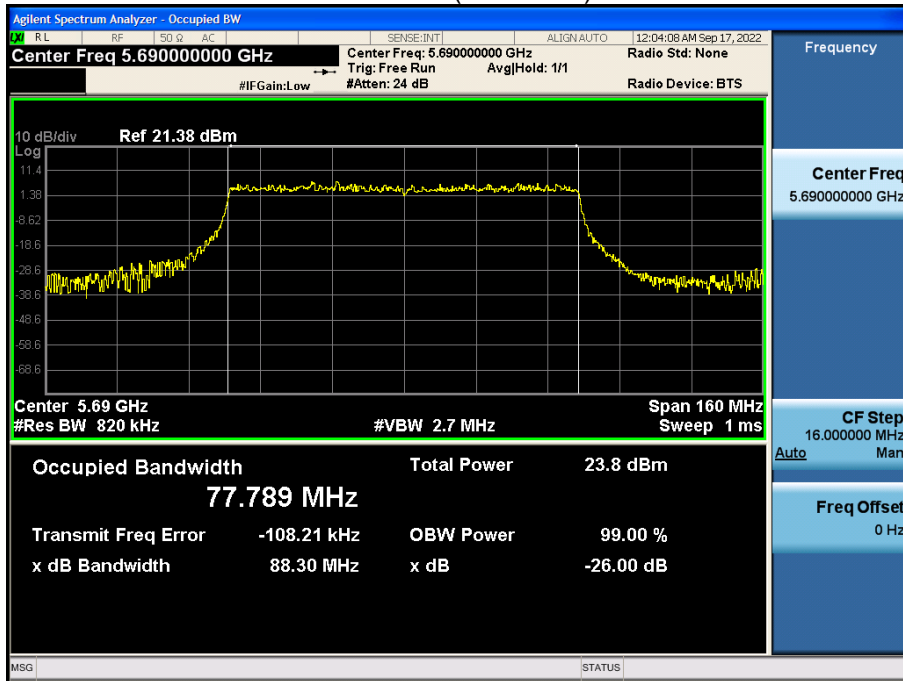
Bandwidth 80M Ch.106(5530 MHz) 996T RU 67



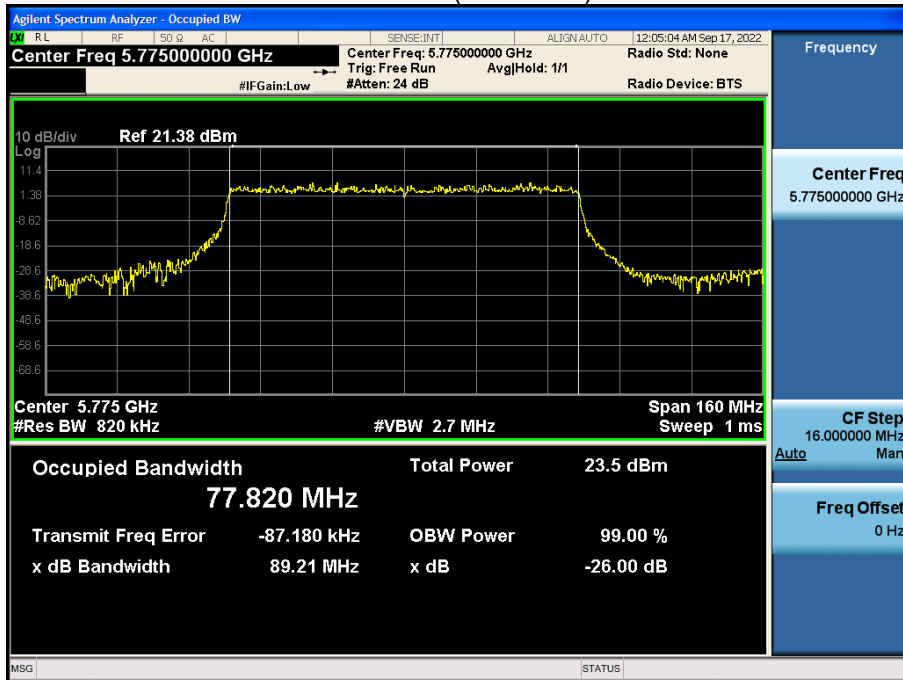
Bandwidth 80M Ch.122(5610 MHz) 996T RU 67



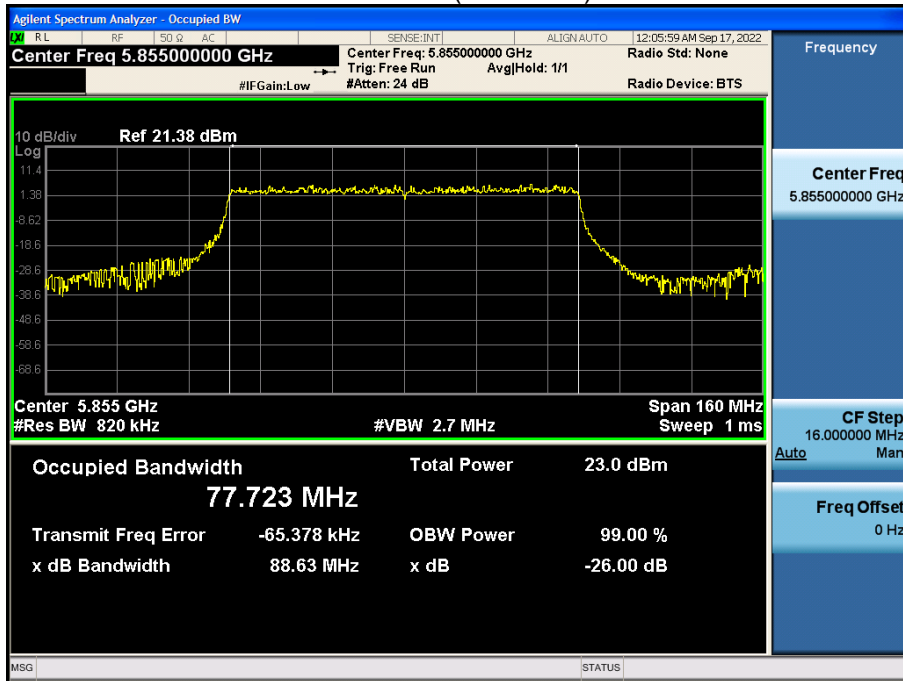
Bandwidth 80M Ch.138(5690 MHz) 996T RU 67



Bandwidth 80M Ch.155(5775 MHz) 996T RU 67

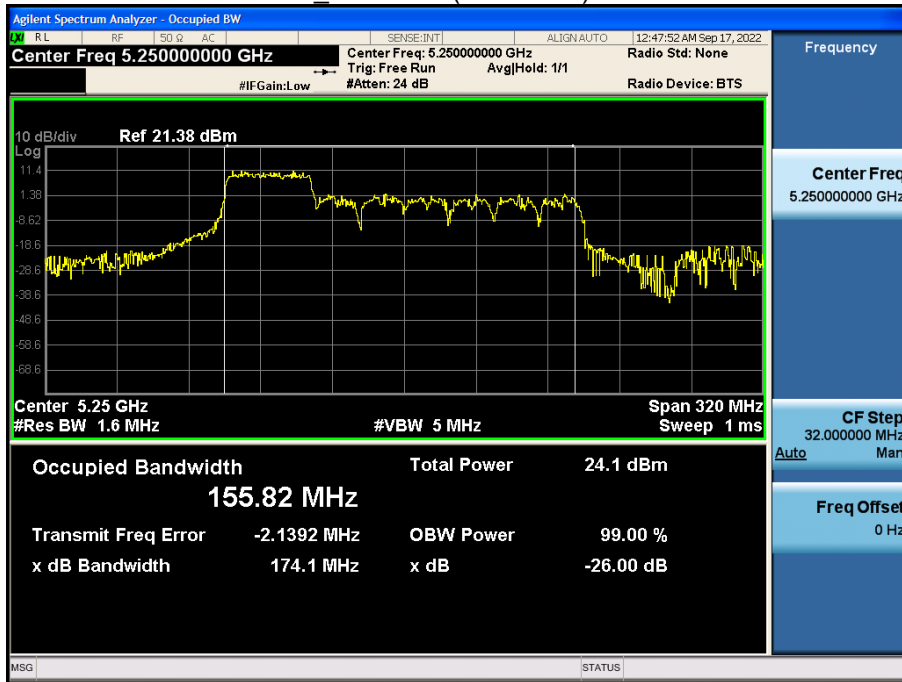


Bandwidth 80M Ch.171(5855 MHz) 996T RU 67

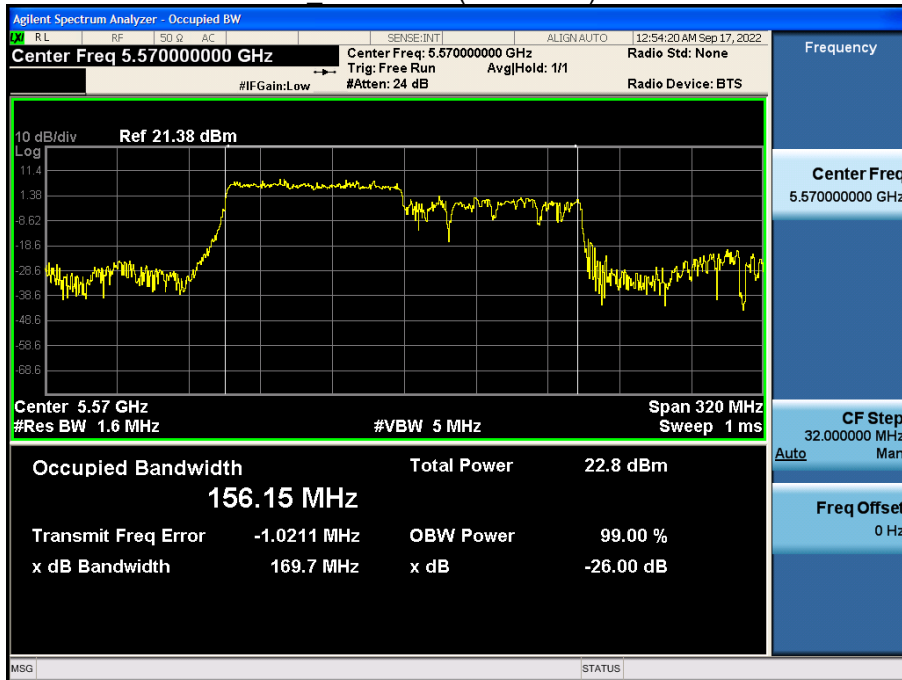


Bandwidth 160M

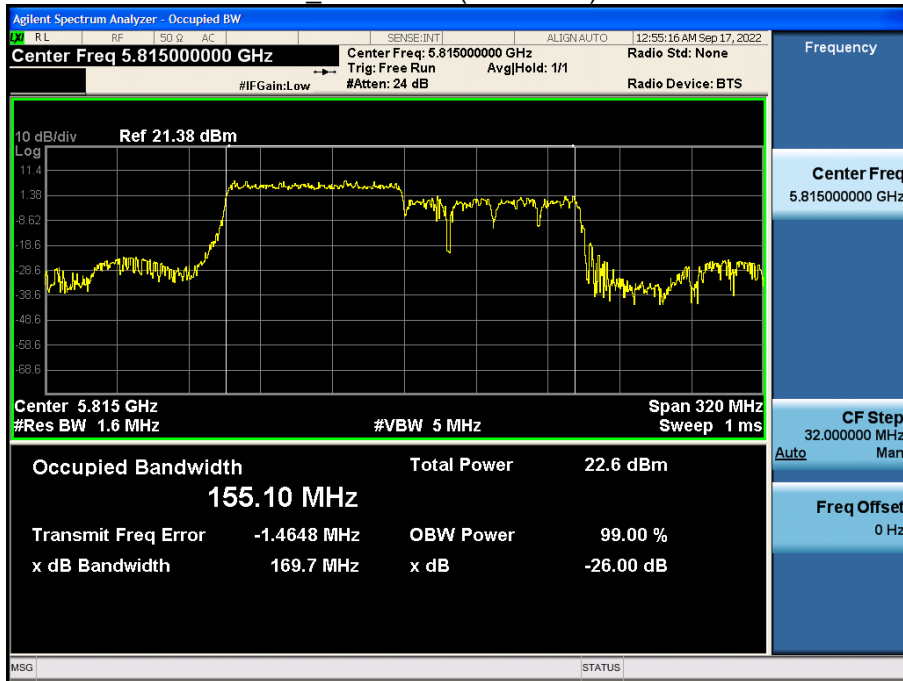
Bandwidth 160M 80L Ch.50(5250 MHz) 484 Tones RU 65



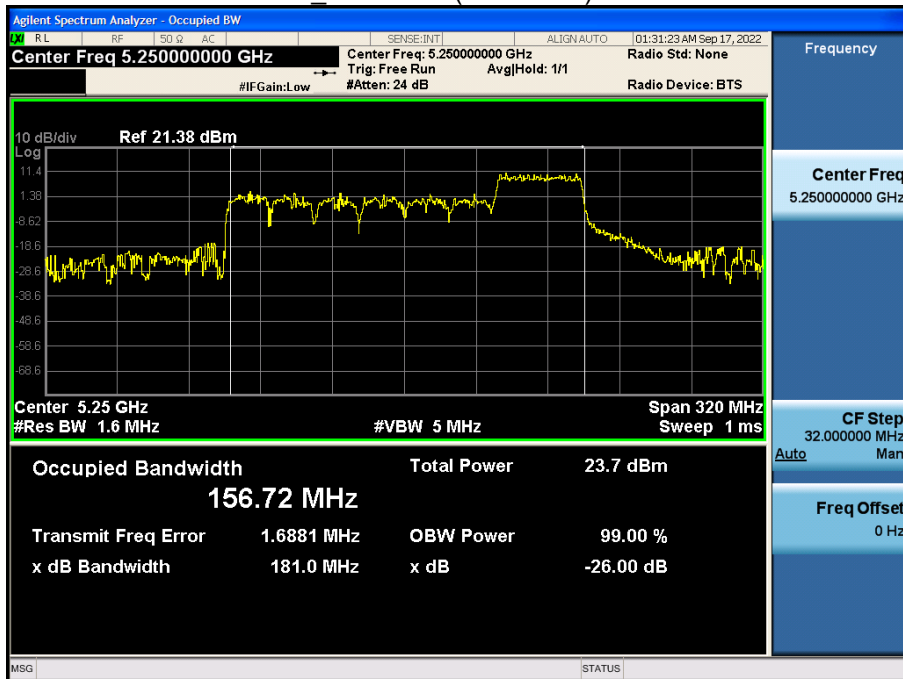
Bandwidth 160M 80L Ch.114(5570 MHz) 996 Tones RU 67



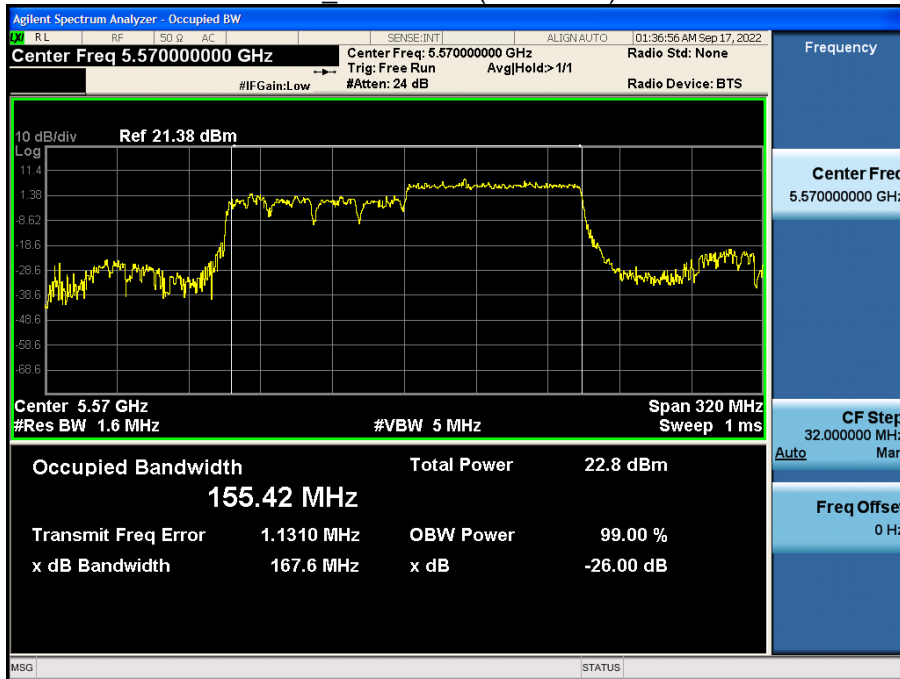
Bandwidth 160M_80L Ch.163(5815 MHz) 996 Tones RU 67



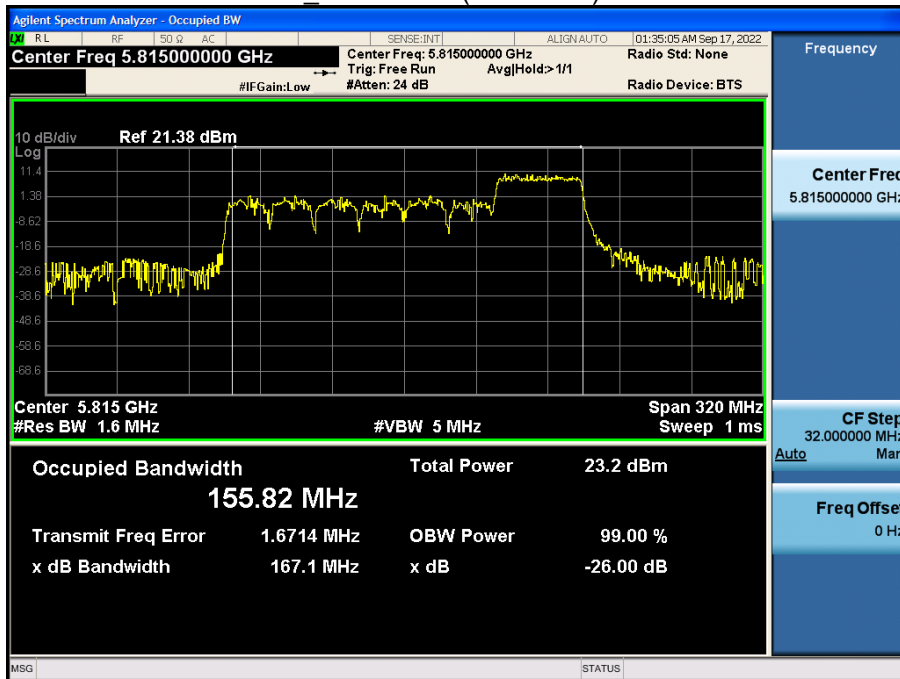
Bandwidth 160M_80U Ch.50(5250 MHz) 484 Tones RU 66



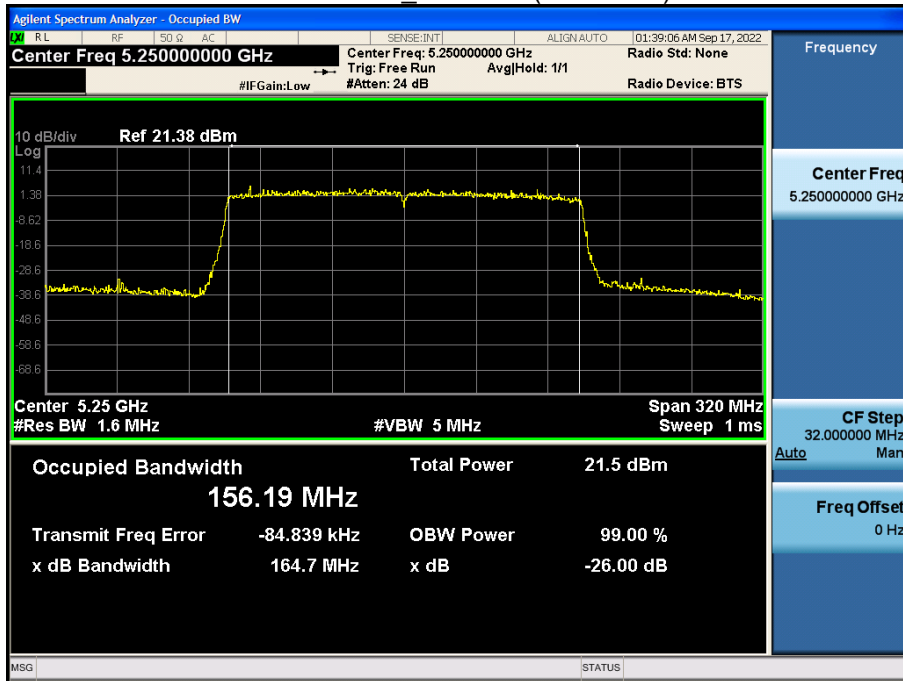
Bandwidth 16 160M 80U Ch.114(5570 MHz) 996 Tones RU 67



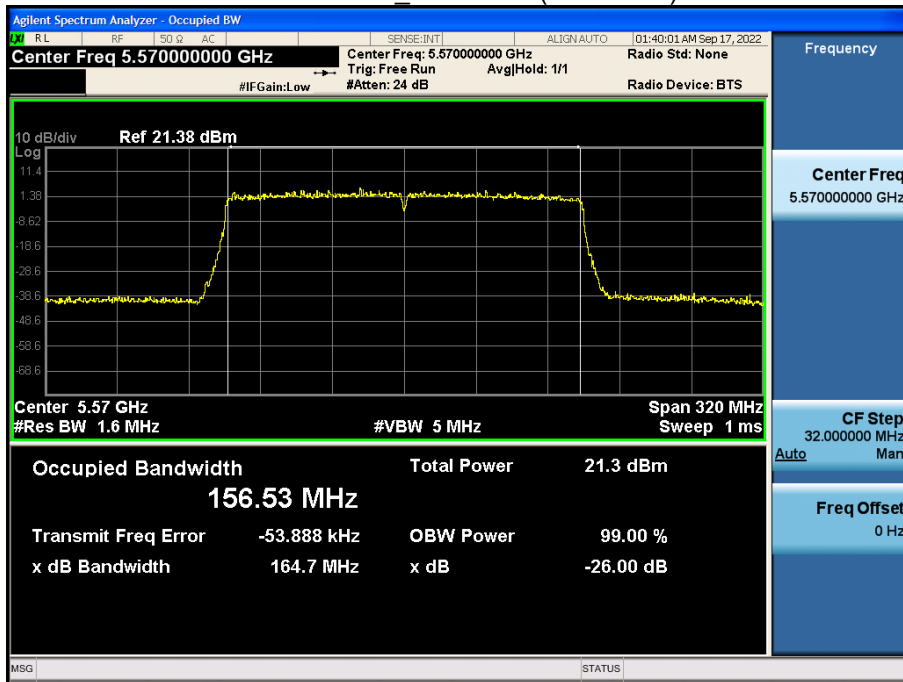
Bandwidth 160M 80U Ch.163(5815 MHz) 484 Tones RU 66



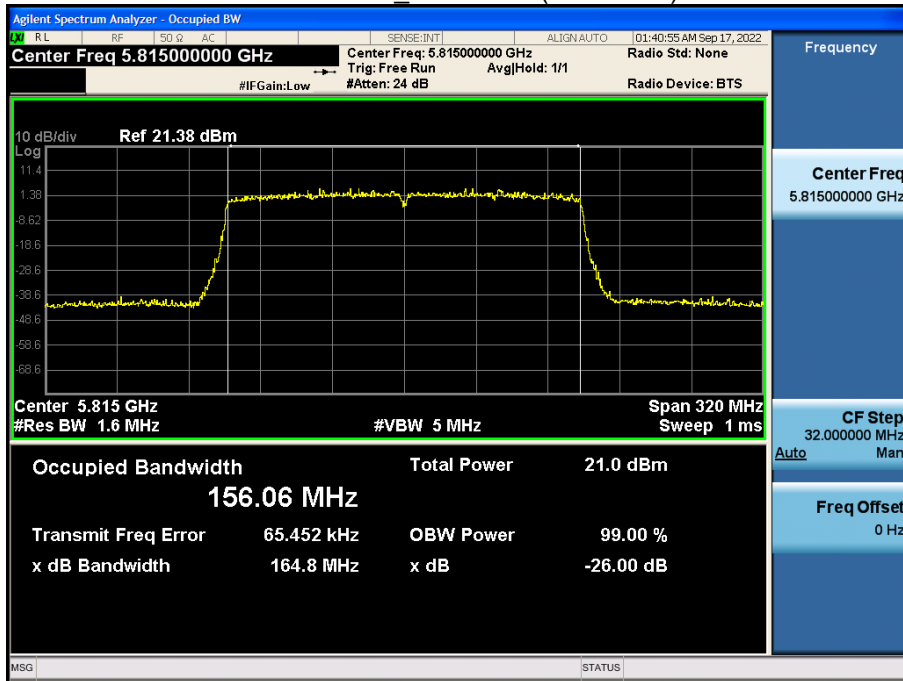
Bandwidth 160M_SU Ch.50(5250 MHz) SU



Bandwidth 160M_SU Ch.114(5570 MHz) SU



Bandwidth 160M_SU Ch.163(5815 MHz) SU



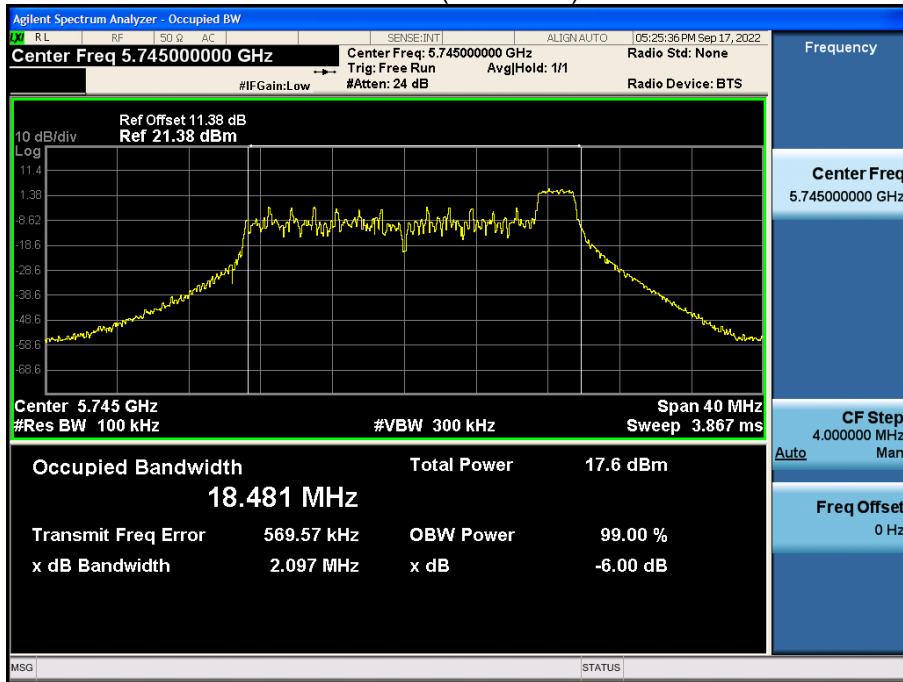
3. 6dB Bandwidth

Note:

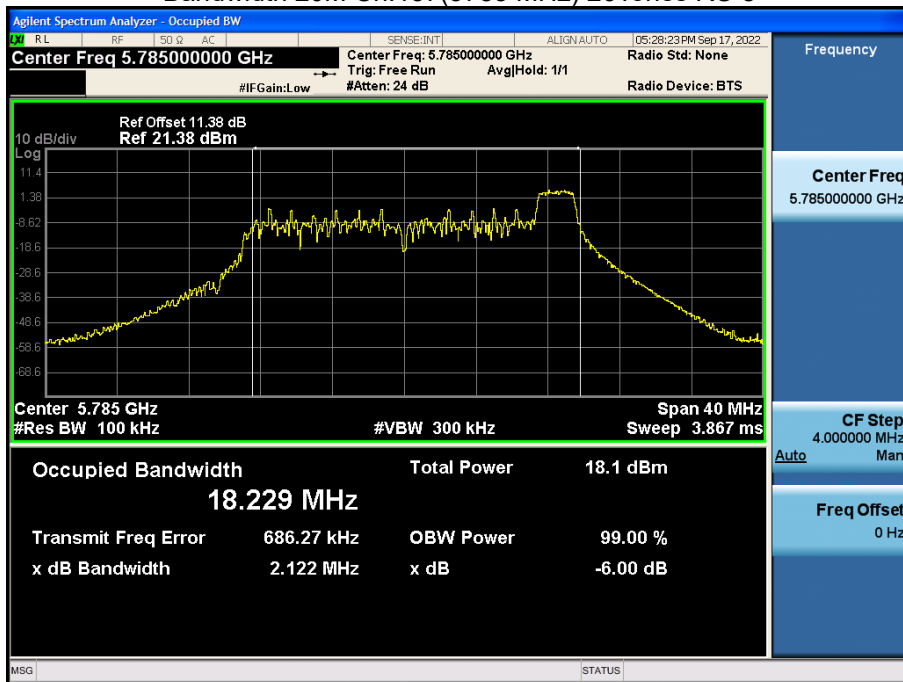
1. In order to simplify the report, attached plots were only the most narrow channel.

3.1 Ant1

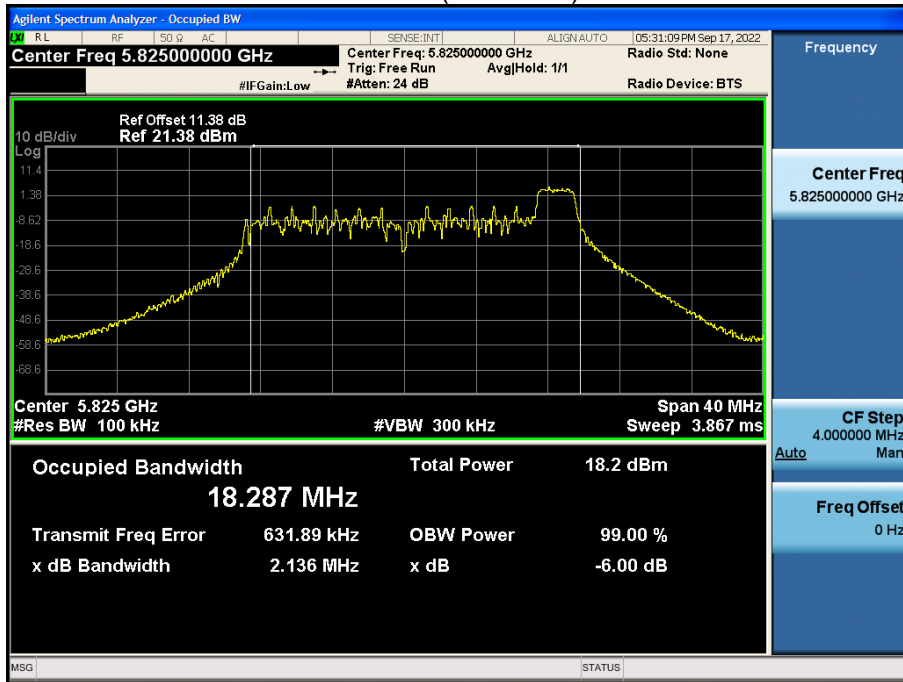
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 8



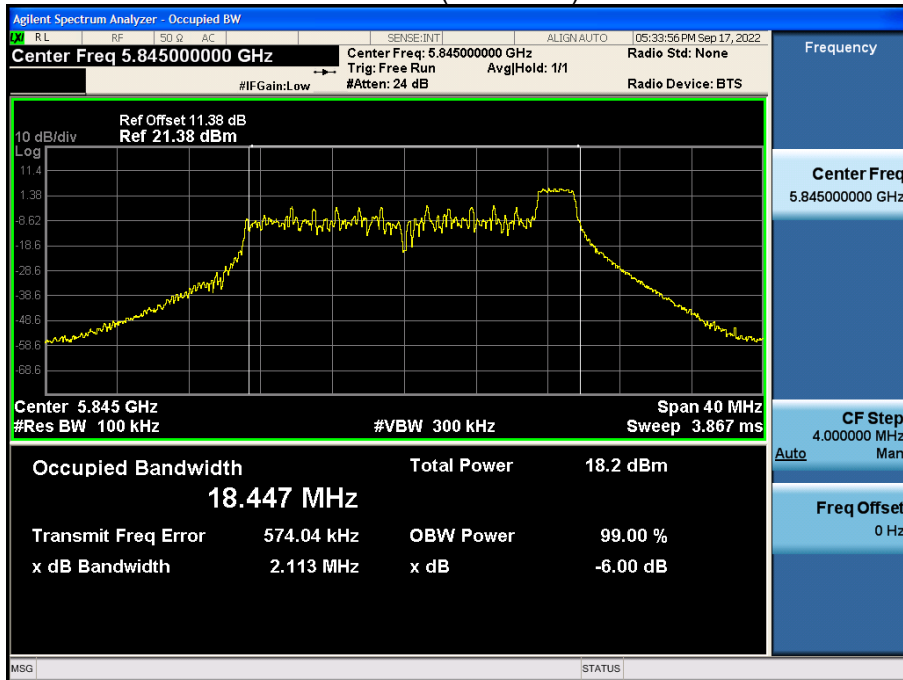
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



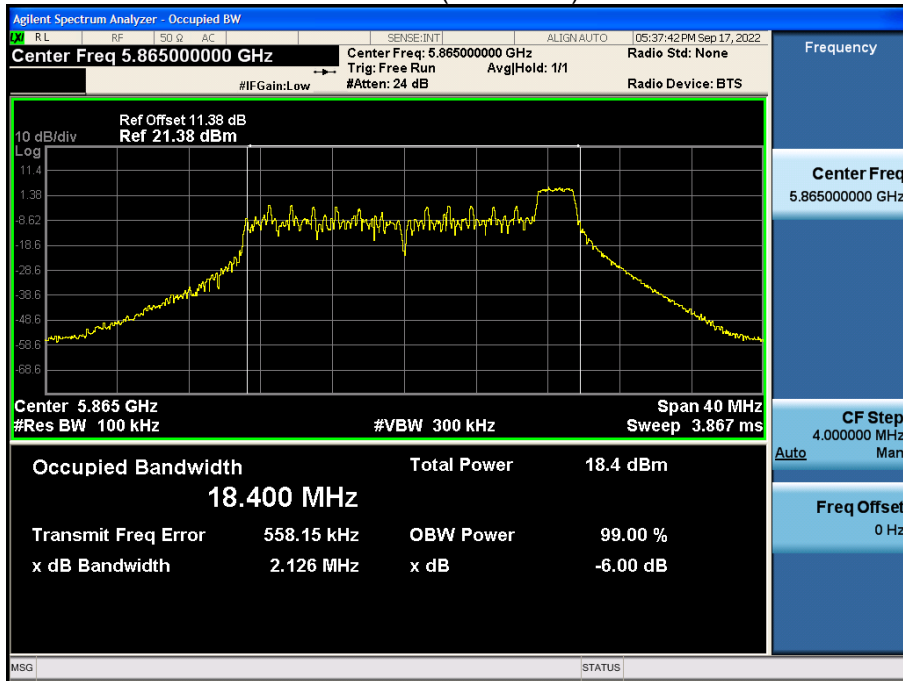
Bandwidth 20M Ch.165(5825 MHz) 26Tones RU 8



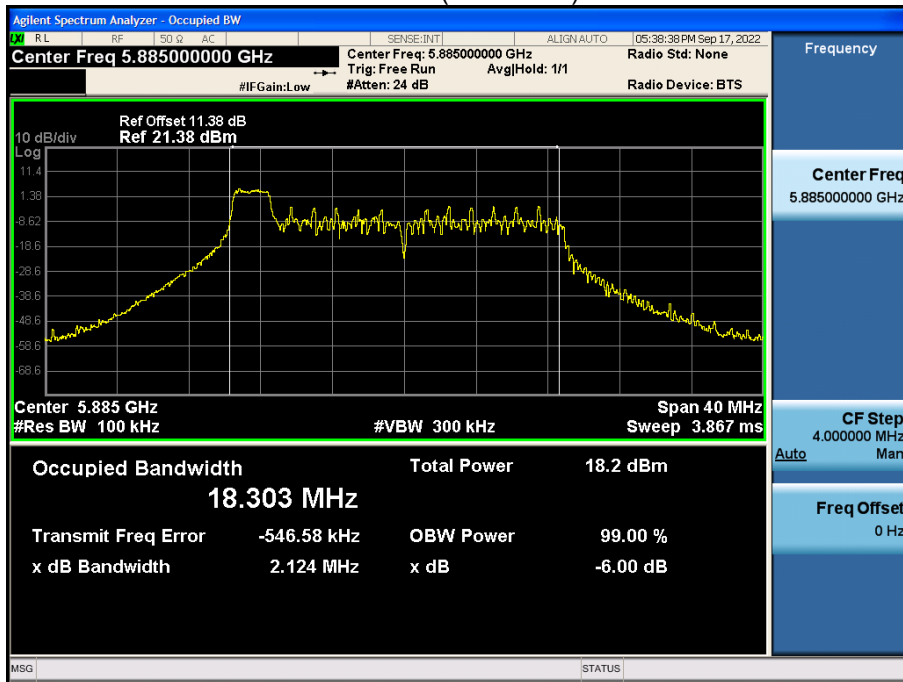
Bandwidth 20M Ch.169(5845 MHz) 26Tones RU 8



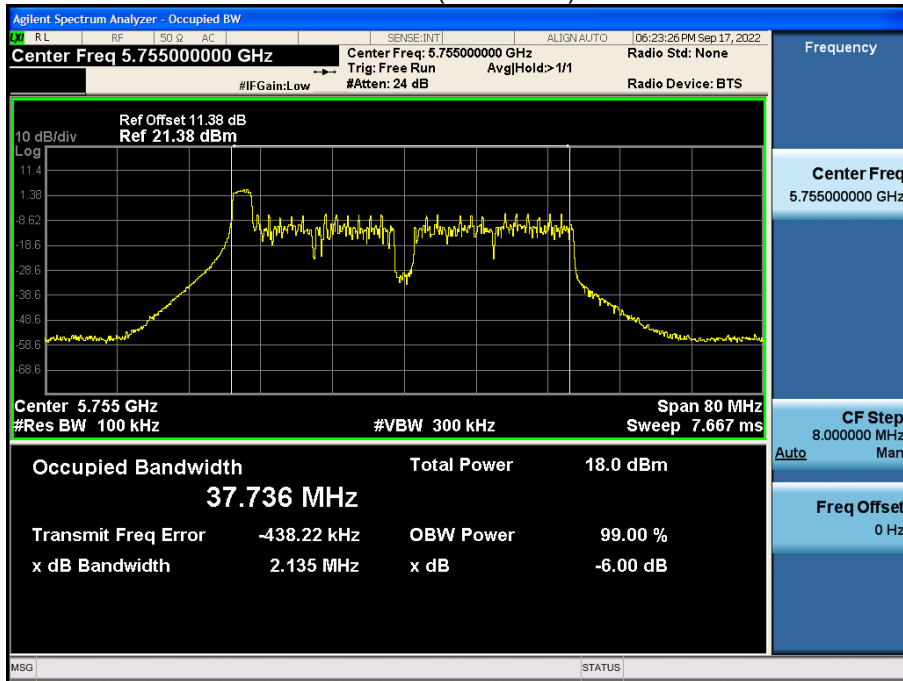
Bandwidth 20M Ch.173(5865 MHz) 26Tones RU 8



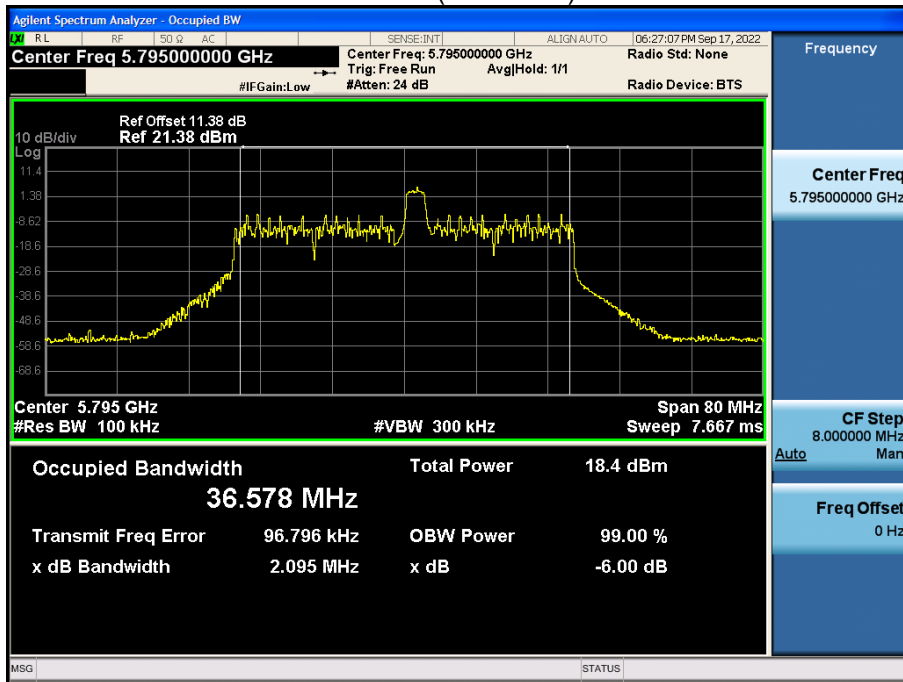
Bandwidth 20M Ch.177(5885 MHz) 26Tones RU 0



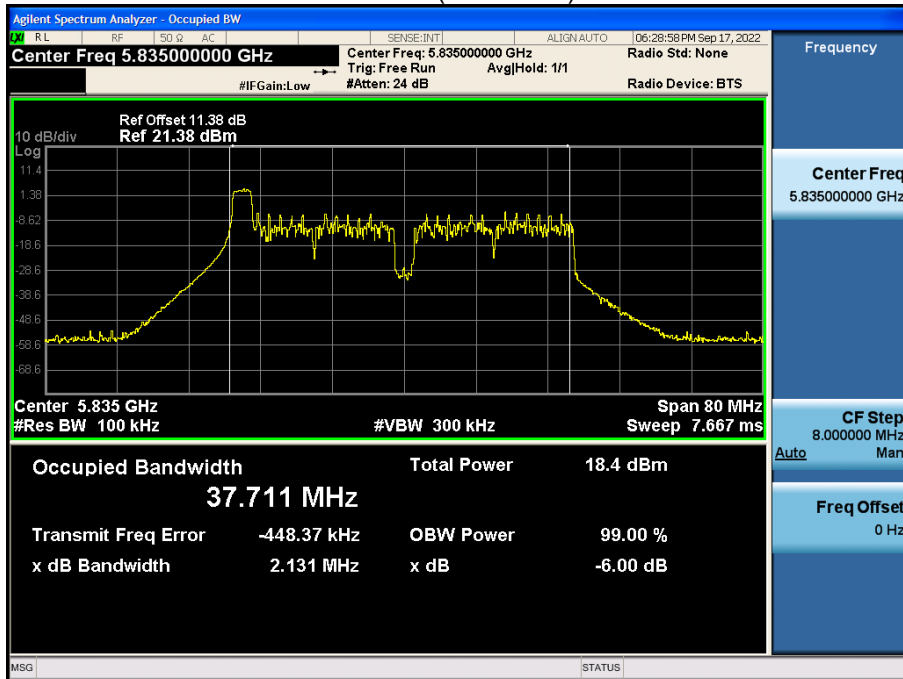
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 0



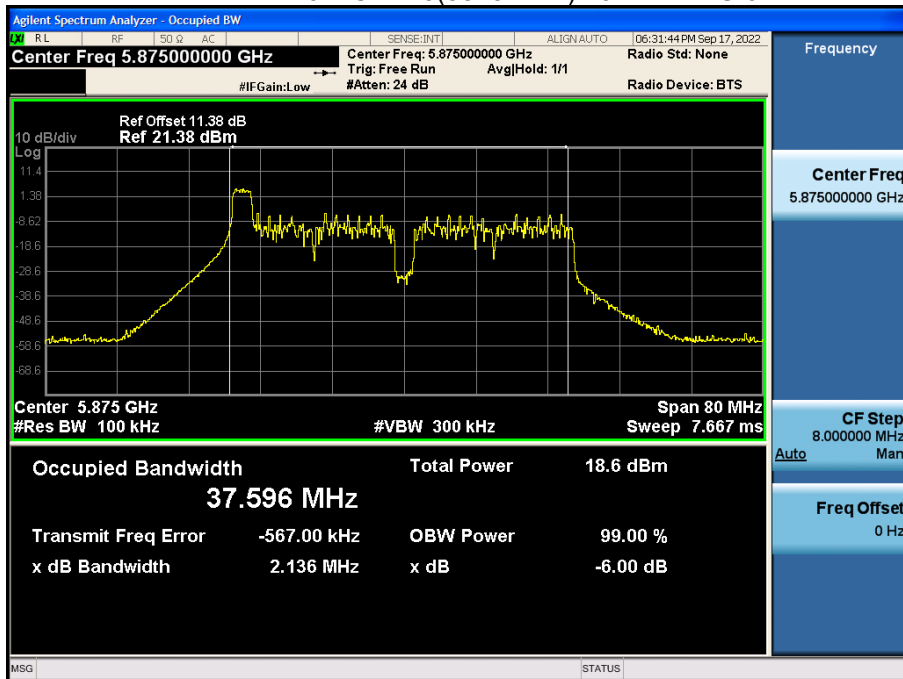
Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 9



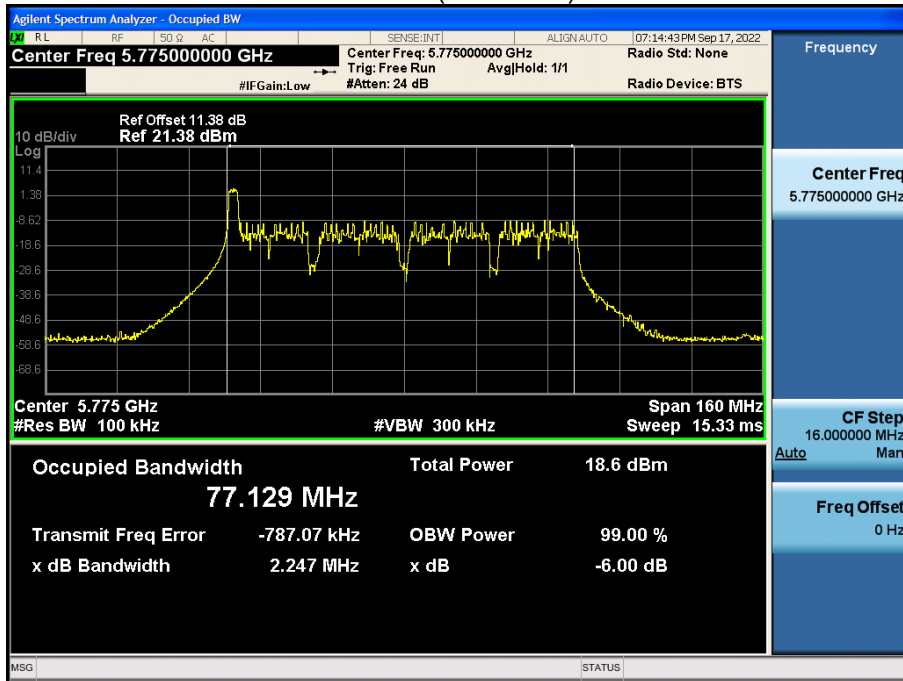
Bandwidth 40M Ch.167(5835 MHz) 26 Tones RU 0



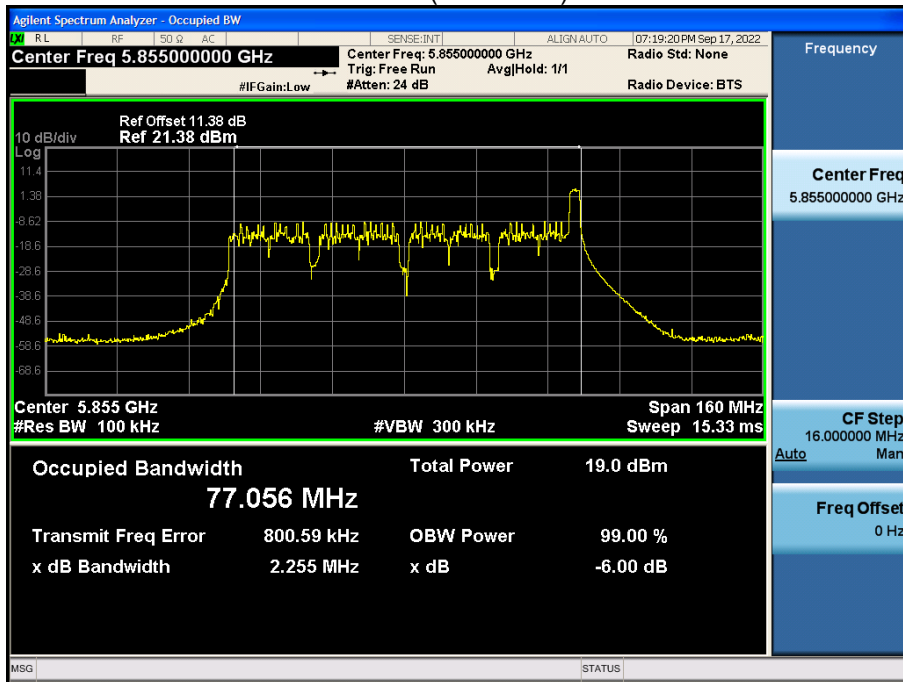
Bandwidth 40M Ch.175(5875 MHz) 26 Tones RU 0



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

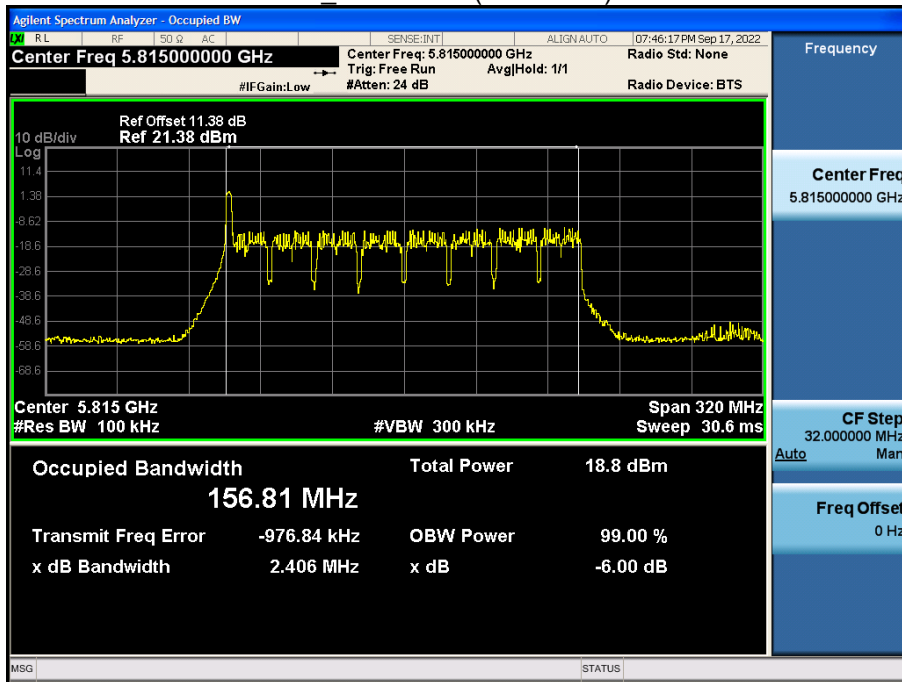


Bandwidth 80M Ch.171(5855 MHz) 26 Tones RU 36

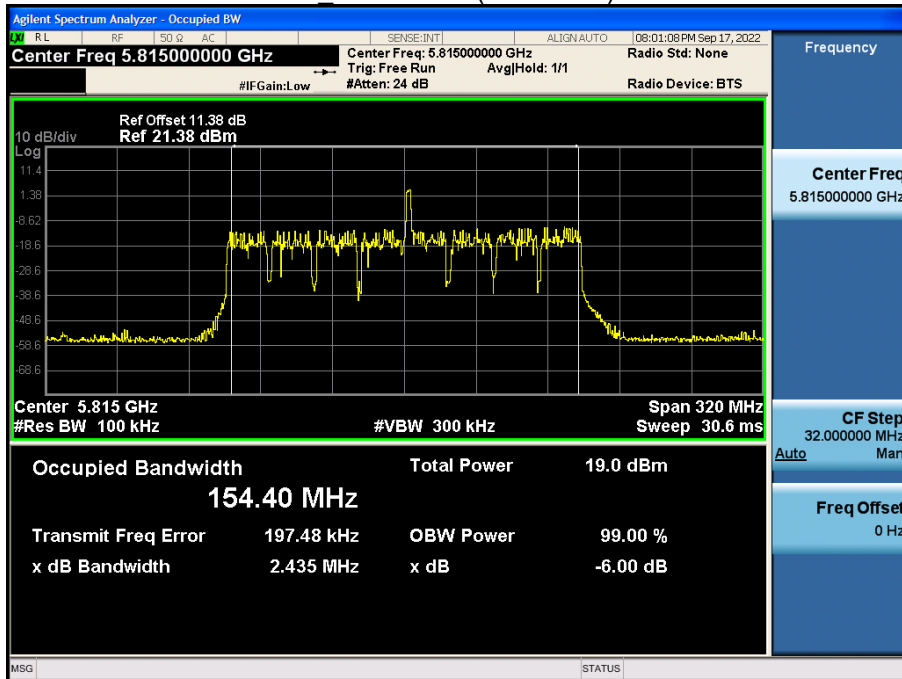


Bandwidth 160M

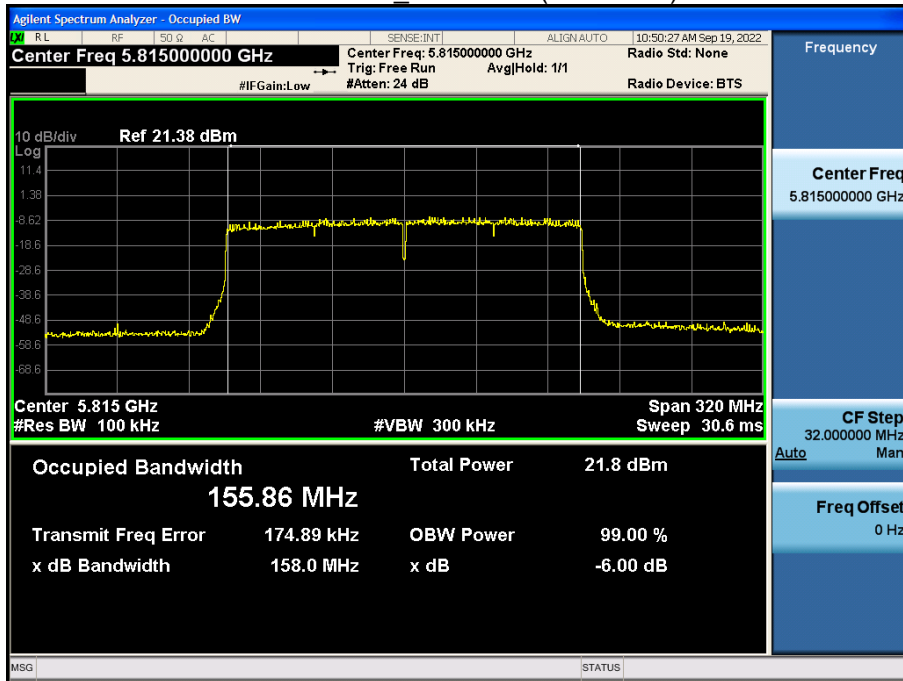
Bandwidth 160M_80L Ch.163(5815 MHz) 26 Tones RU 0



Bandwidth 160M_80U Ch.163(5815 MHz) 26 Tones RU 0

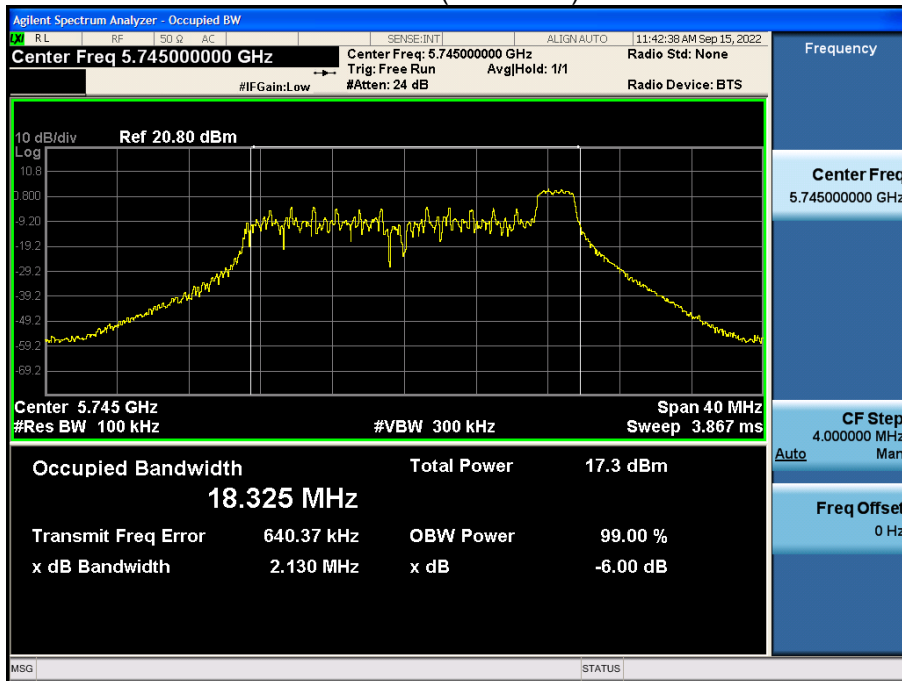


Bandwidth 160M_SU Ch.163(5815 MHz) SU

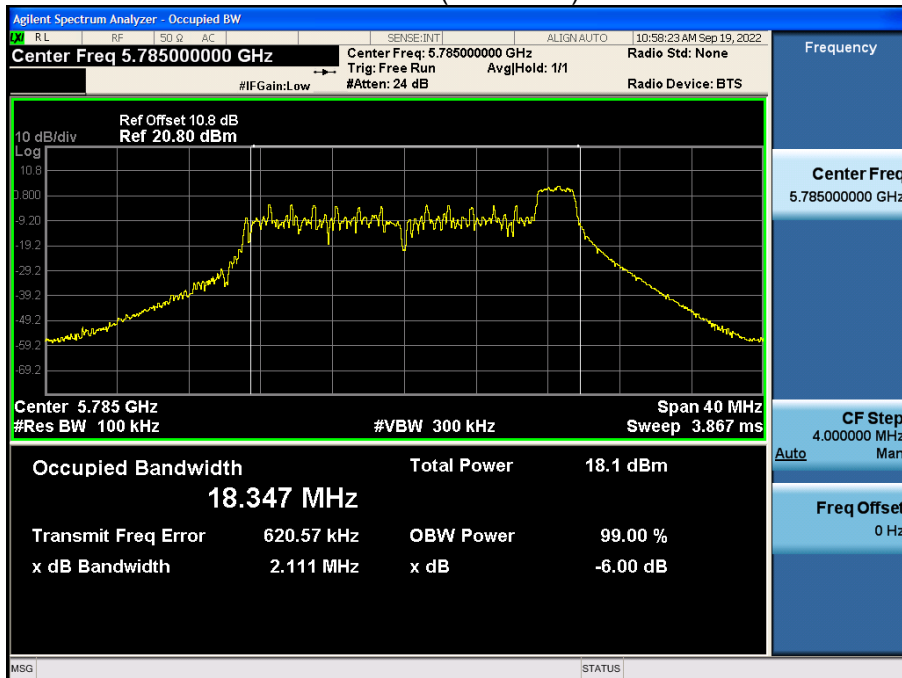


3.2 Ant2

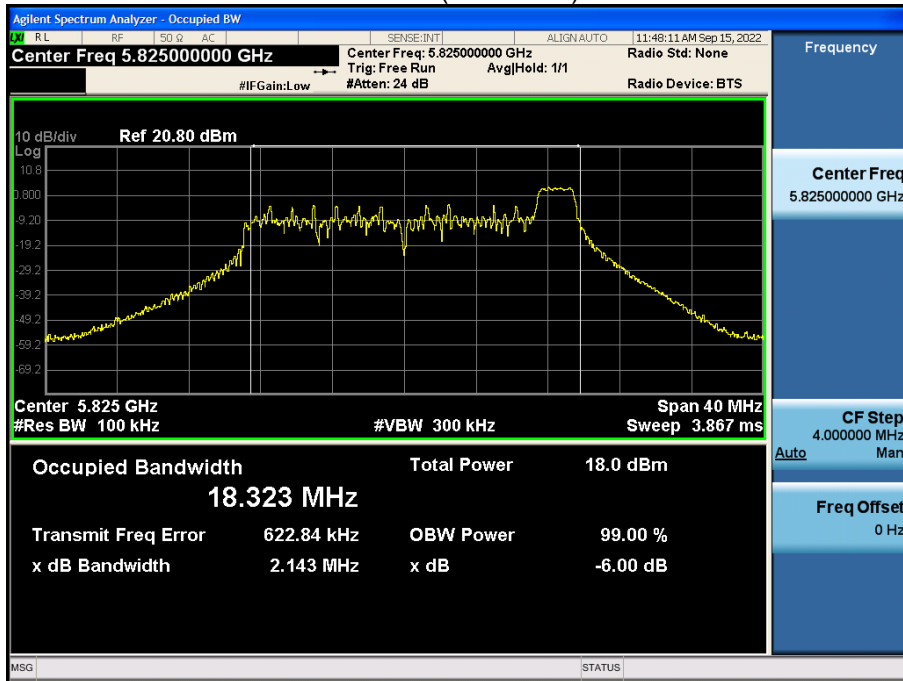
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 8



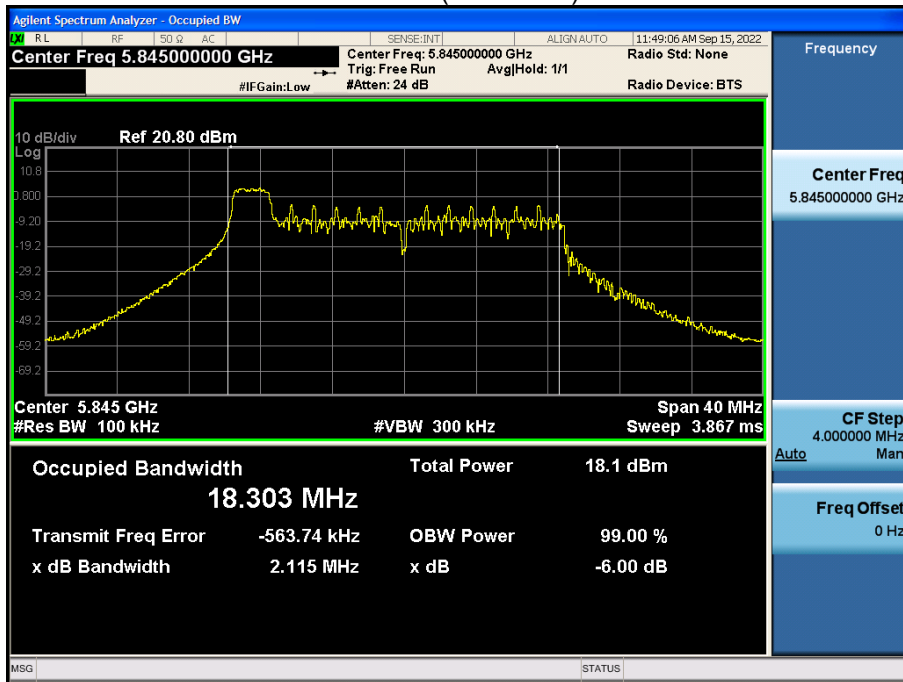
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



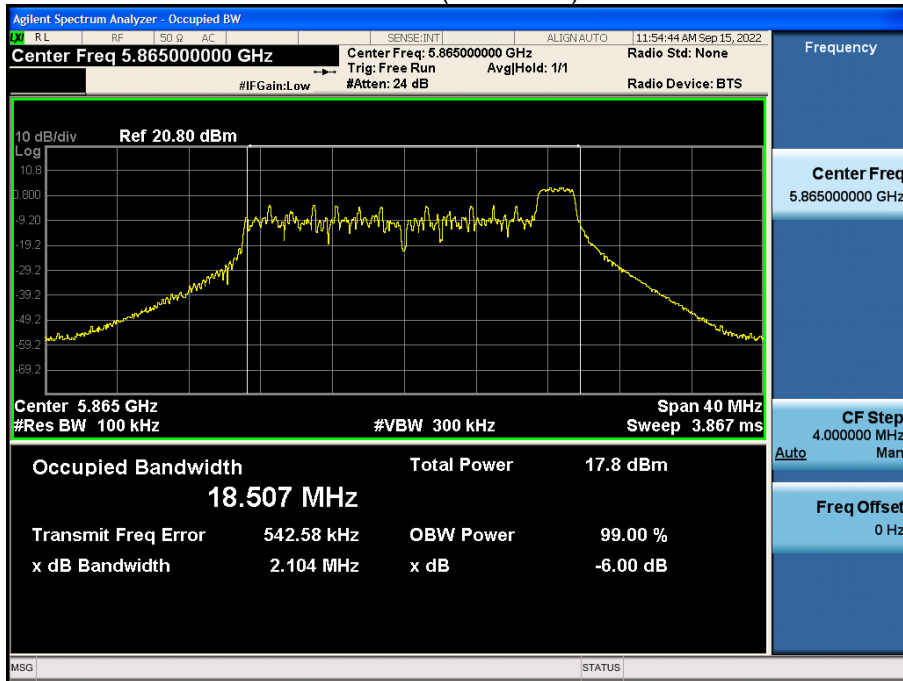
Bandwidth 20M Ch.165(5825 MHz) 26Tones RU 8



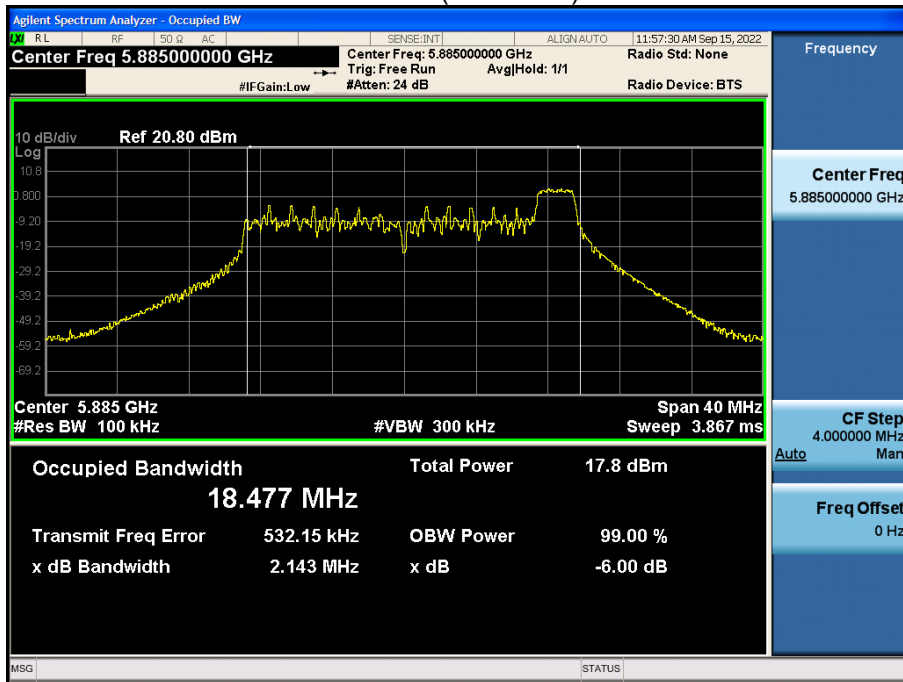
Bandwidth 20M Ch.169(5845 MHz) 26Tones RU 0



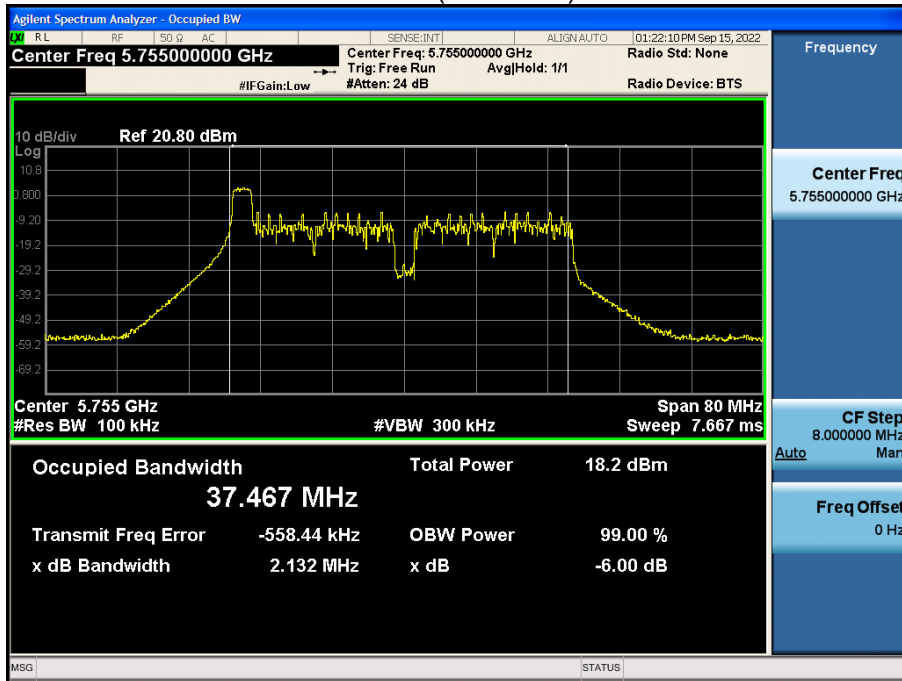
Bandwidth 20M Ch.173(5865 MHz) 26Tones RU 8



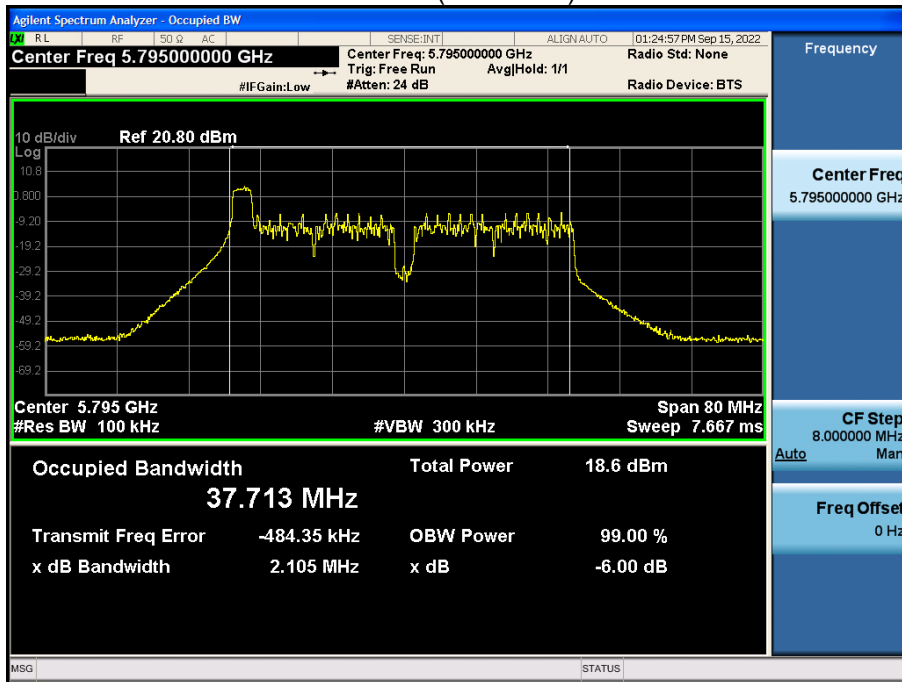
Bandwidth 20M Ch.177(5885 MHz) 26Tones RU 8



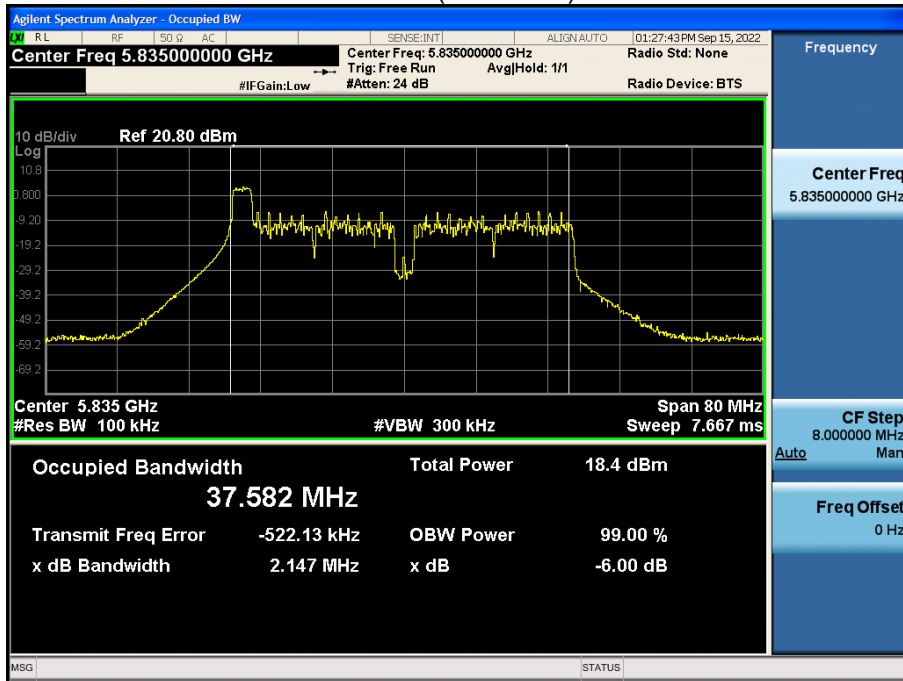
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 0



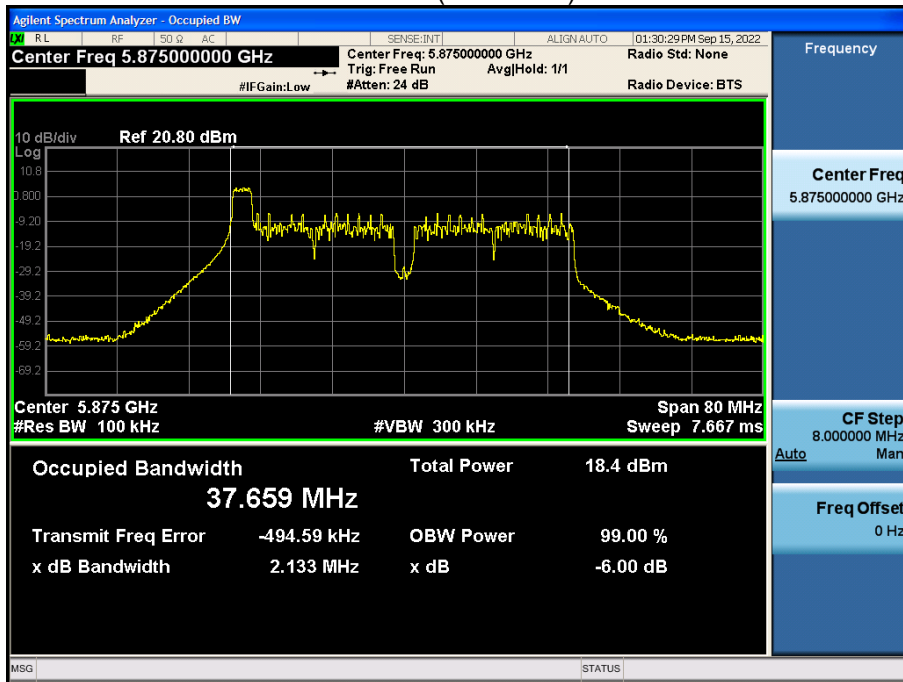
Bandwidth 40M Ch.159(5795 MHz) 26 Tones RU 0



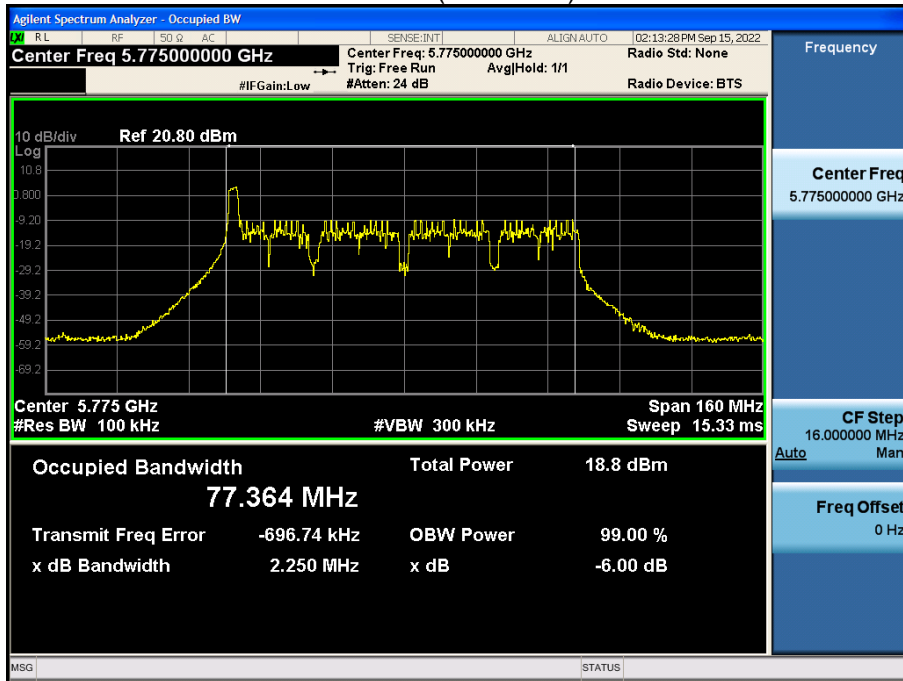
Bandwidth 40M Ch.167(5835 MHz) 26 Tones RU 0



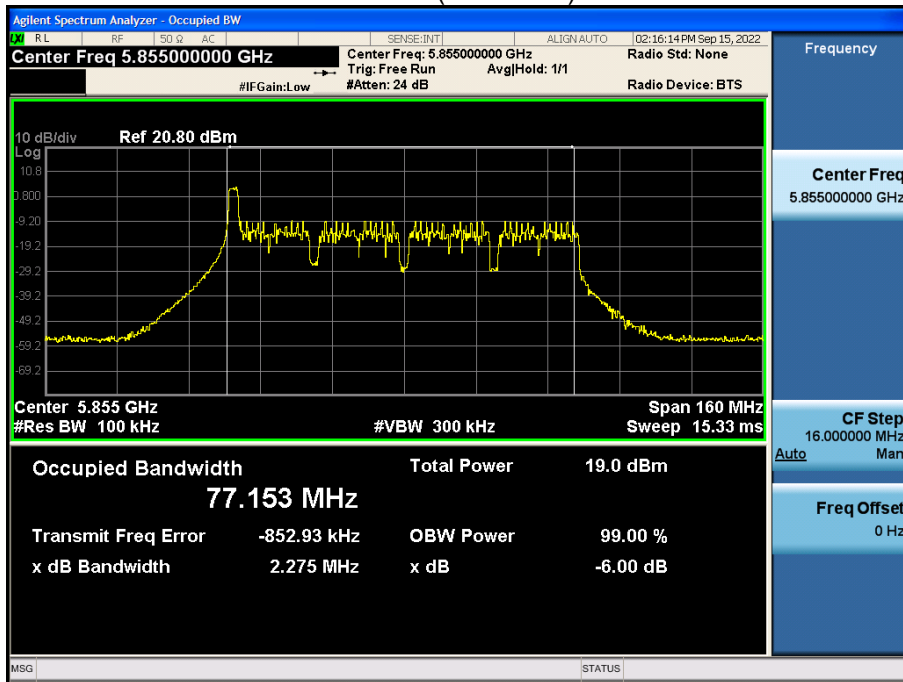
Bandwidth 40M Ch.175(5875 MHz) 26 Tones RU 0



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

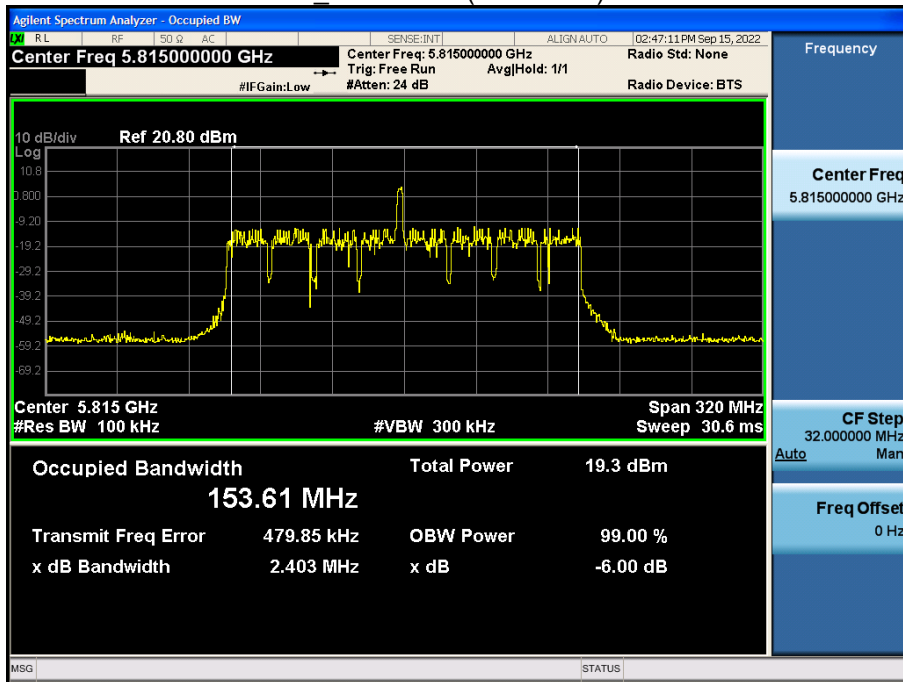


Bandwidth 80M Ch.171(5855 MHz) 26 Tones RU 0

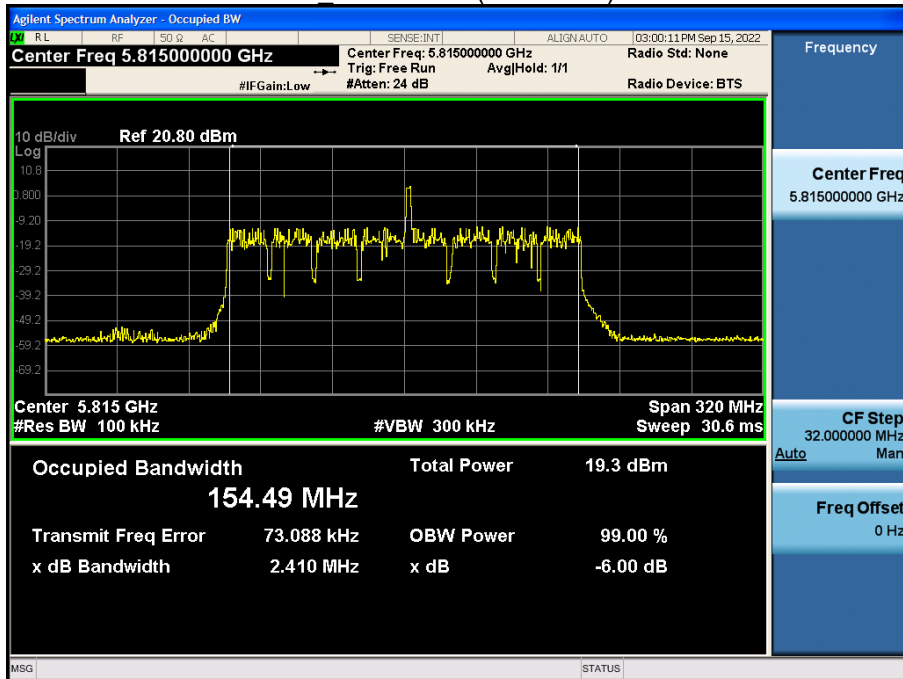


Bandwidth 160M

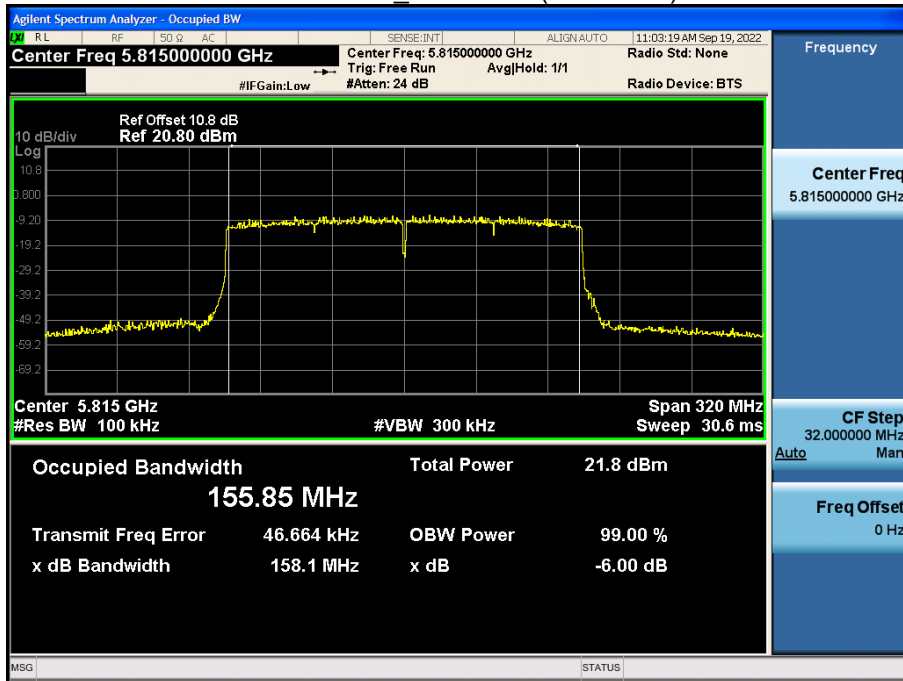
Bandwidth 160M_80L Ch.163(5815 MHz) 26 Tones RU 36



Bandwidth 160M_80U Ch.163(5815 MHz) 26 Tones RU 0



Bandwidth 160M_SU Ch.163(5815 MHz) SU



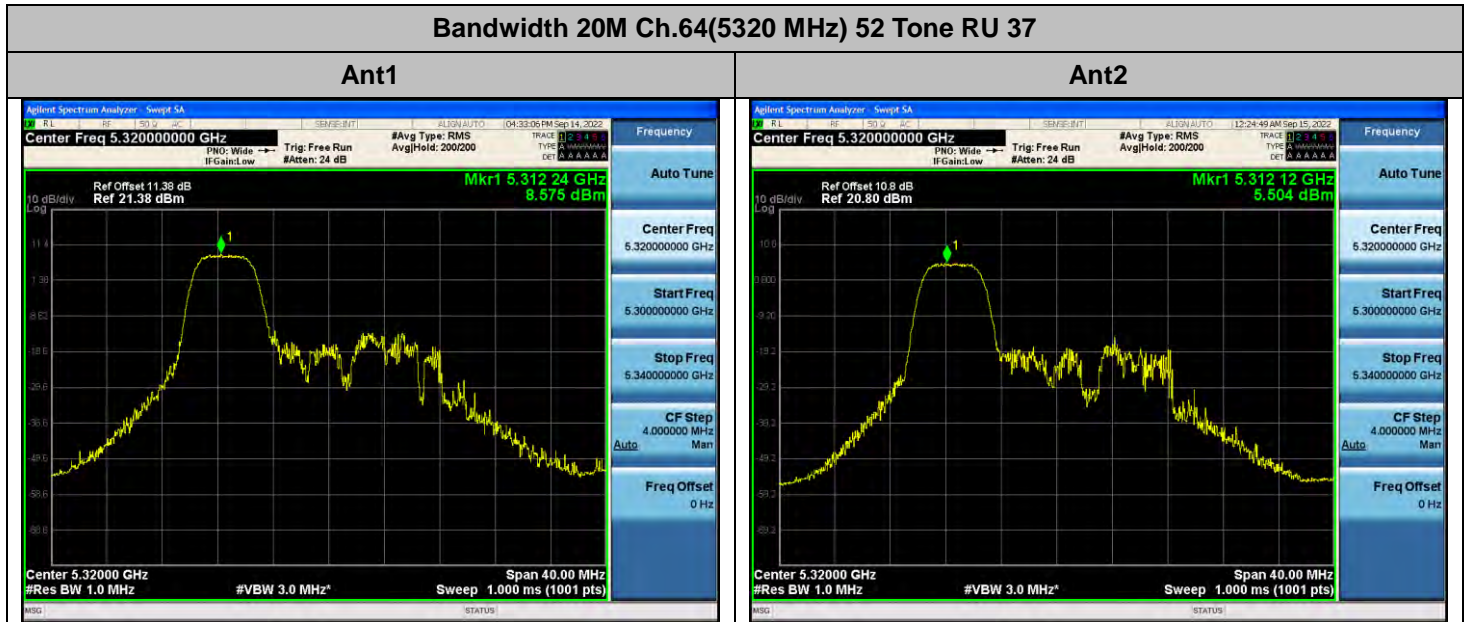
4. Power Spectral Density

Note:

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

4.1 MIMO (Ant 1 + Ant 2)

Bandwidth 20M Ch.64(5320 MHz) 52 Tone RU 37

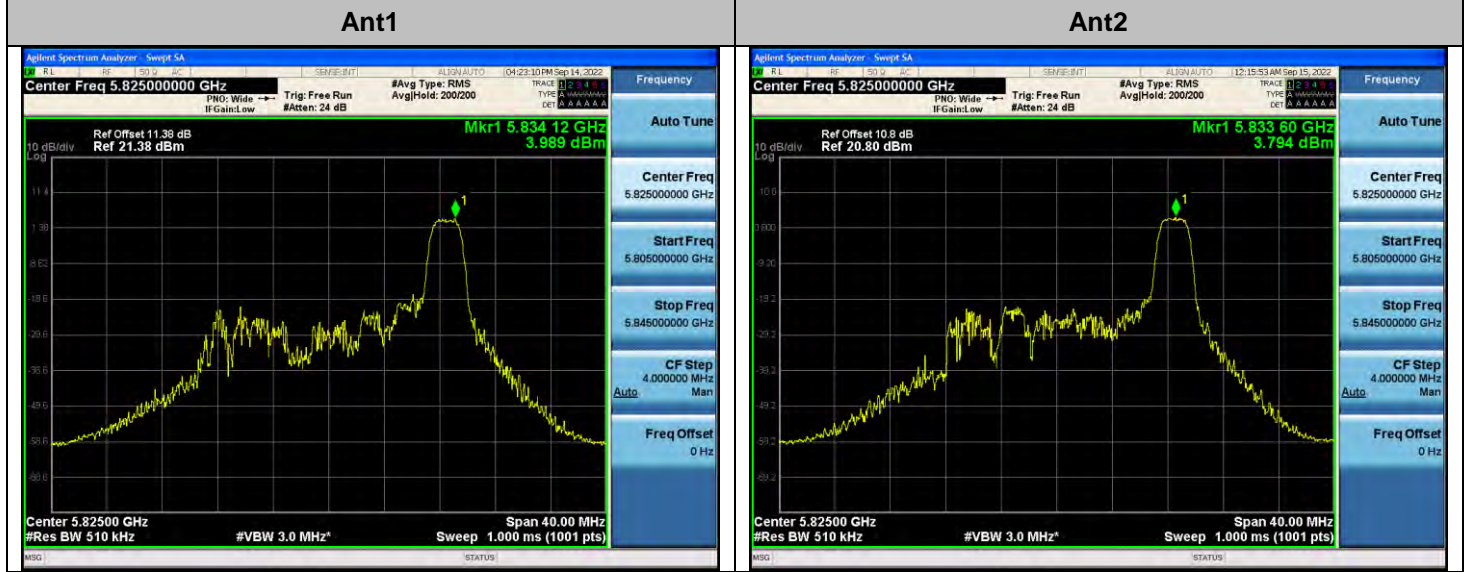


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.316	0.025	10.341

Note:

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

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

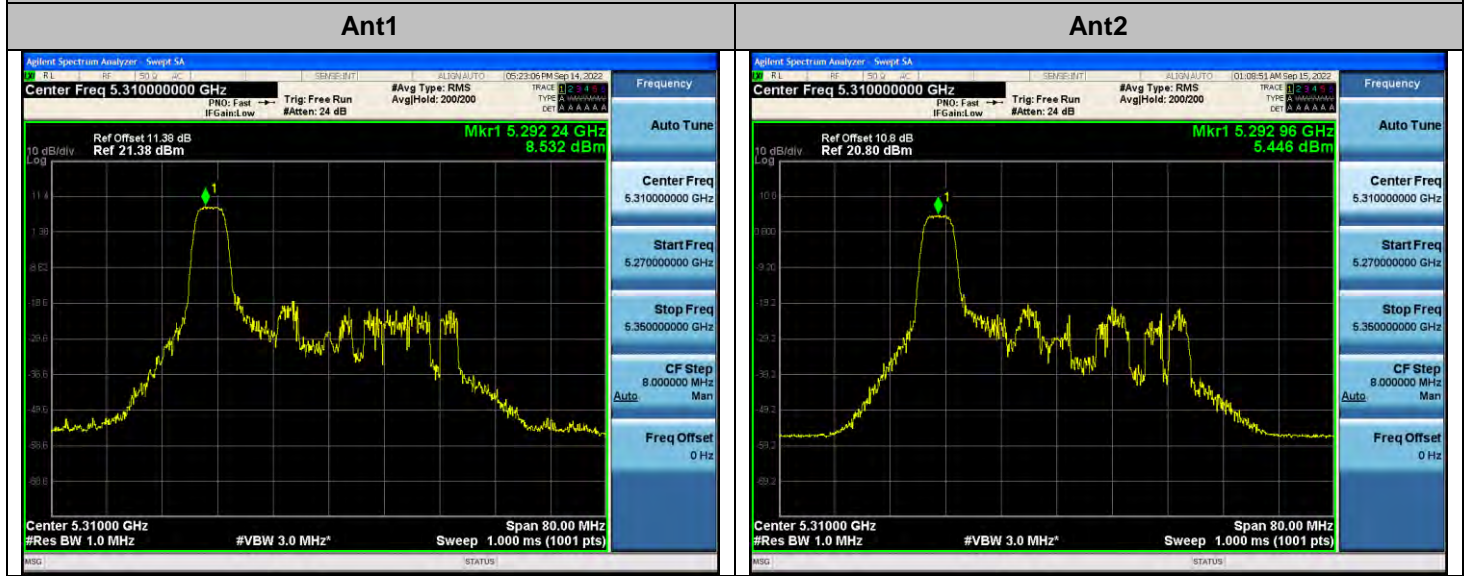


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.903	0.030	6.932

Note:

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

Bandwidth 40M Ch.62 (5310 MHz) 52Tone RU 37

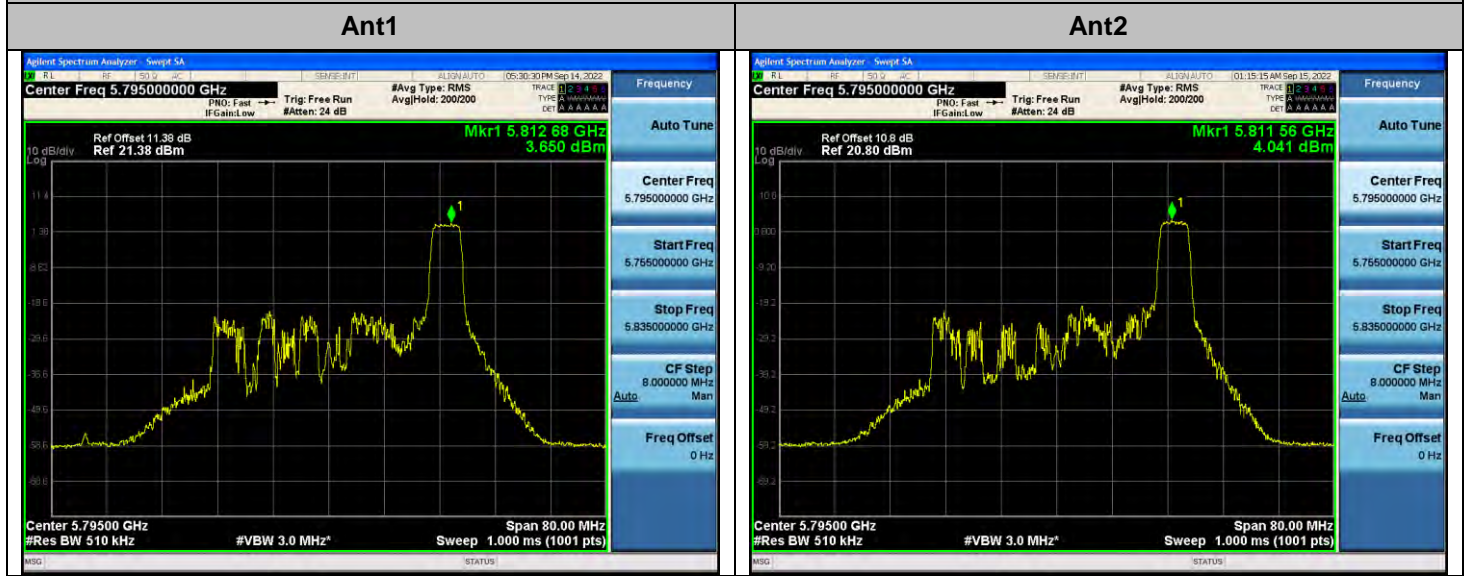


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.268	0.030	10.297

Note:

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

Bandwidth 40M Ch.159 (5795 MHz) 52Tone RU 44

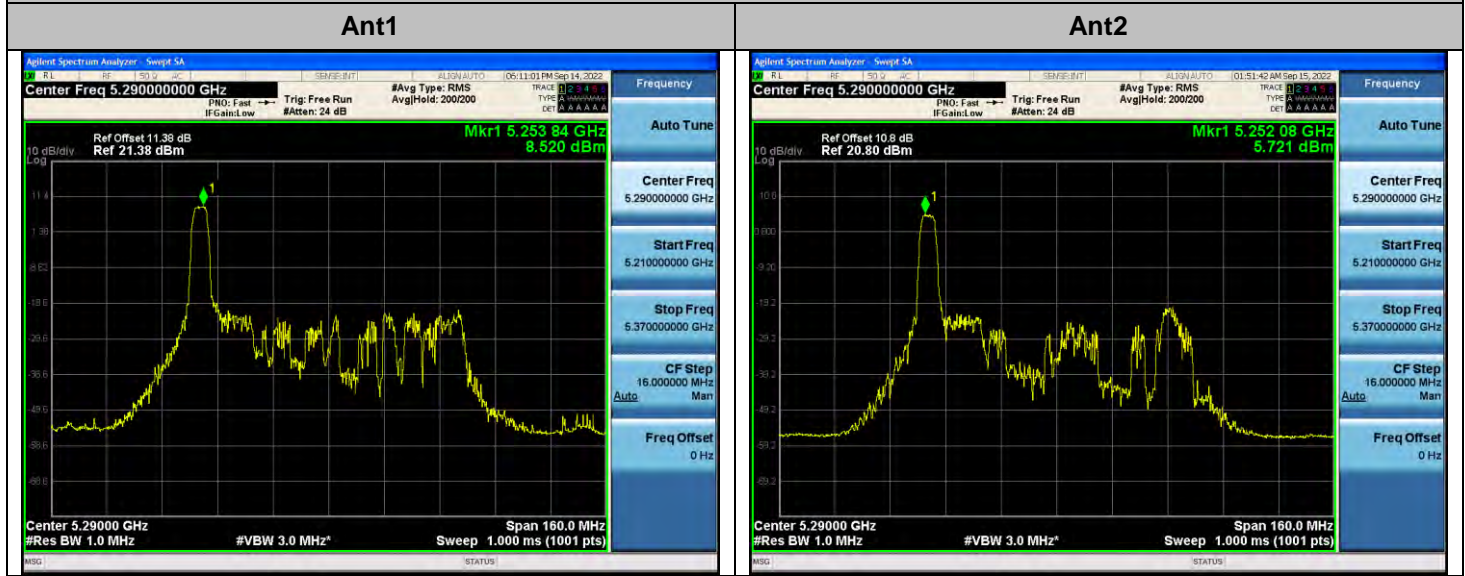


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.860	0.030	6.890

Note:

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

Bandwidth 80M Ch.58 (5290 MHz) 52Tone RU 37

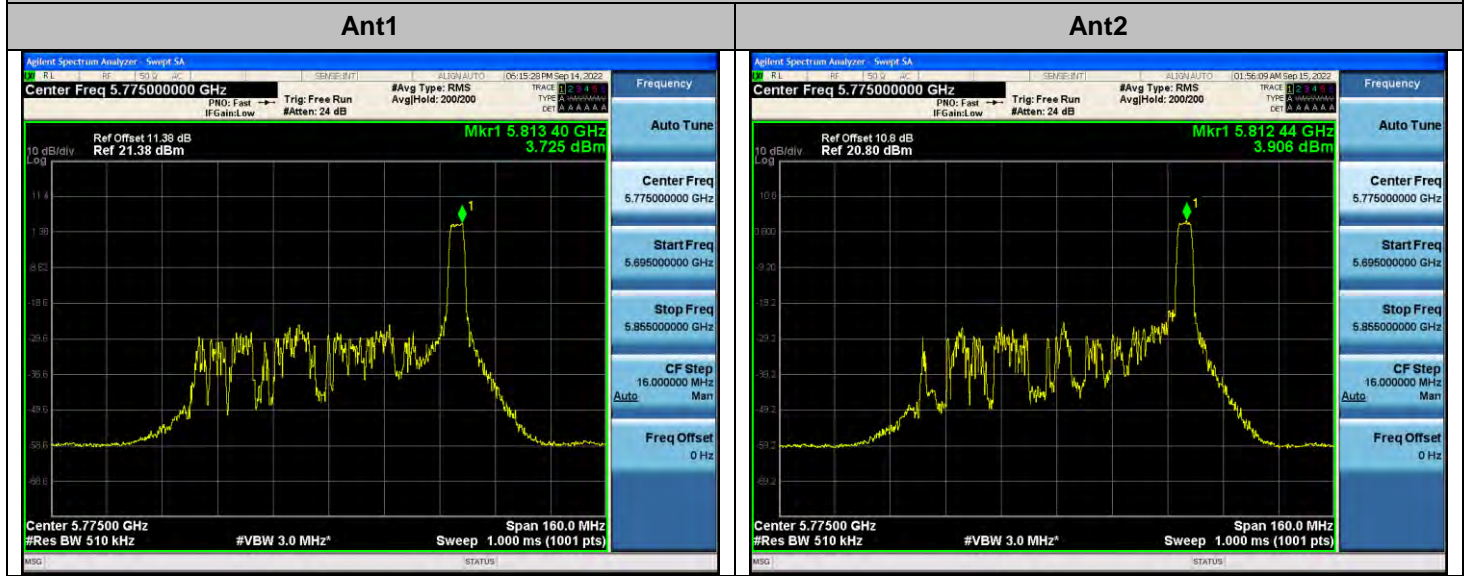


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.352	0.030	10.382

Note:

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

Bandwidth 80M Ch.155 (5775 MHz) 52Tone RU 52

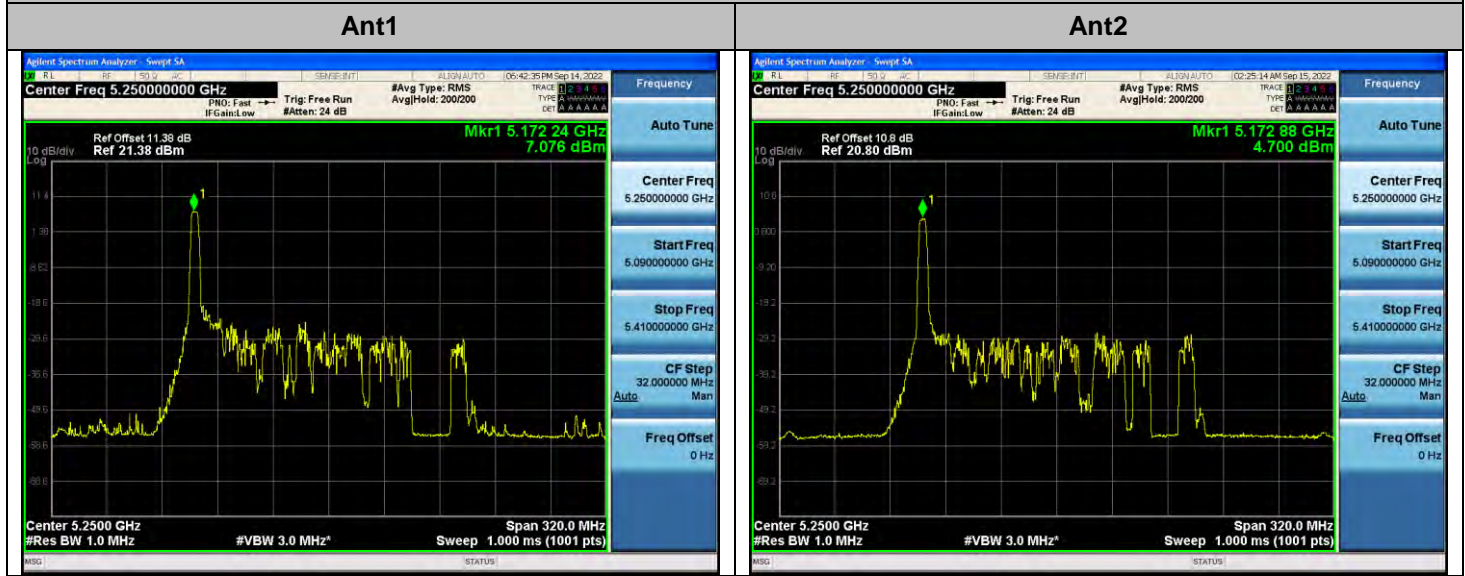


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.827	0.030	6.856

Note:

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

Bandwidth 160M_80L Ch.50 (5250 MHz) 52 Tones RU 37



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.059	0.025	9.084

Note:

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