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<p>Appendix B: 802.11ax Test Plot</p>	<p>FCC ID A3LSMG736B</p>
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REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	May 02, 2022	Initial Release

Note:

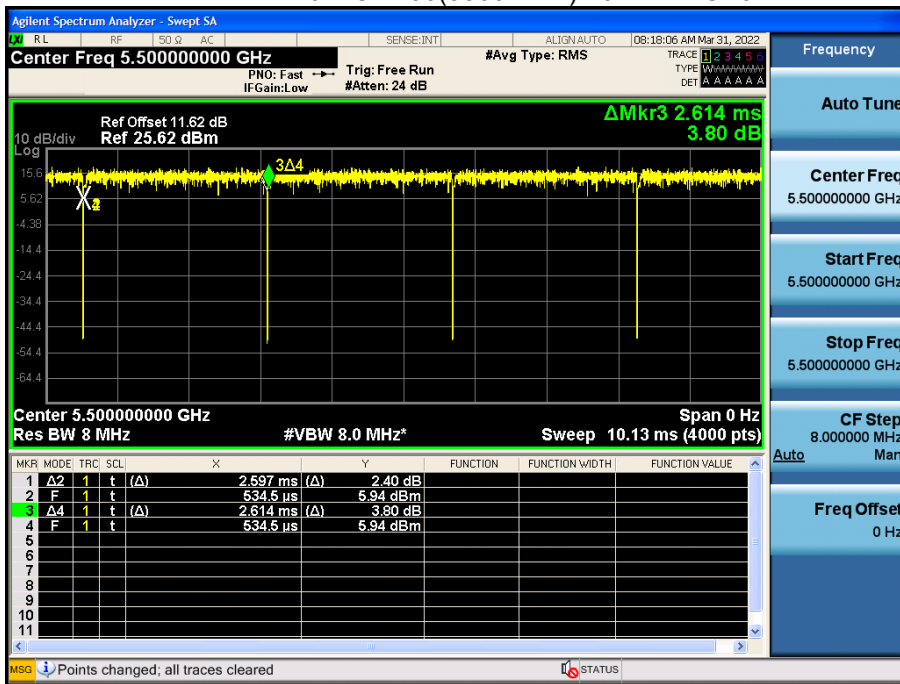
In order to simplify the report, attached plots were only the most lowest datarate.

1. Duty Cycle

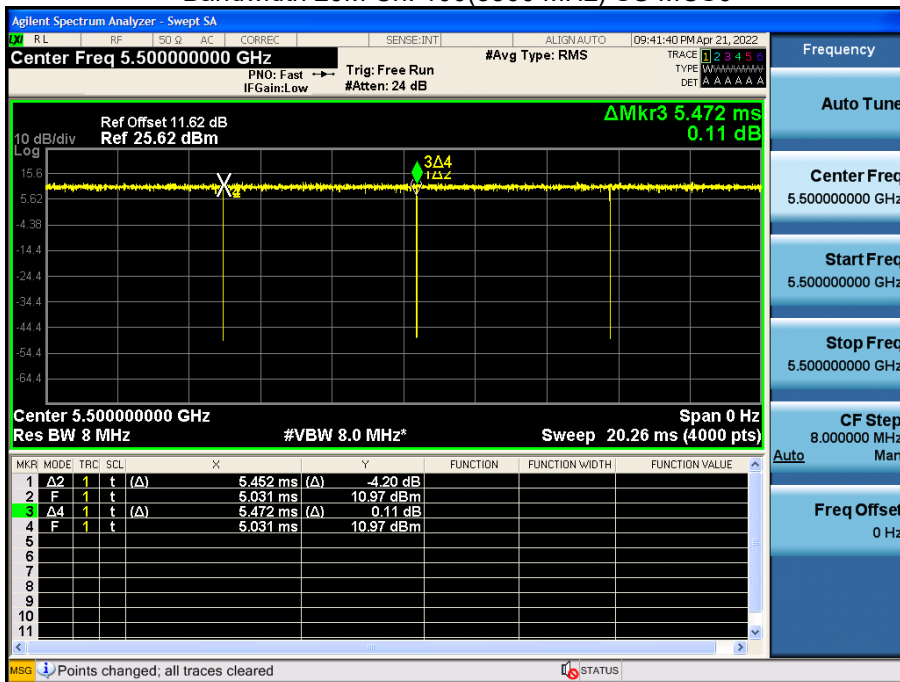
Note:

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

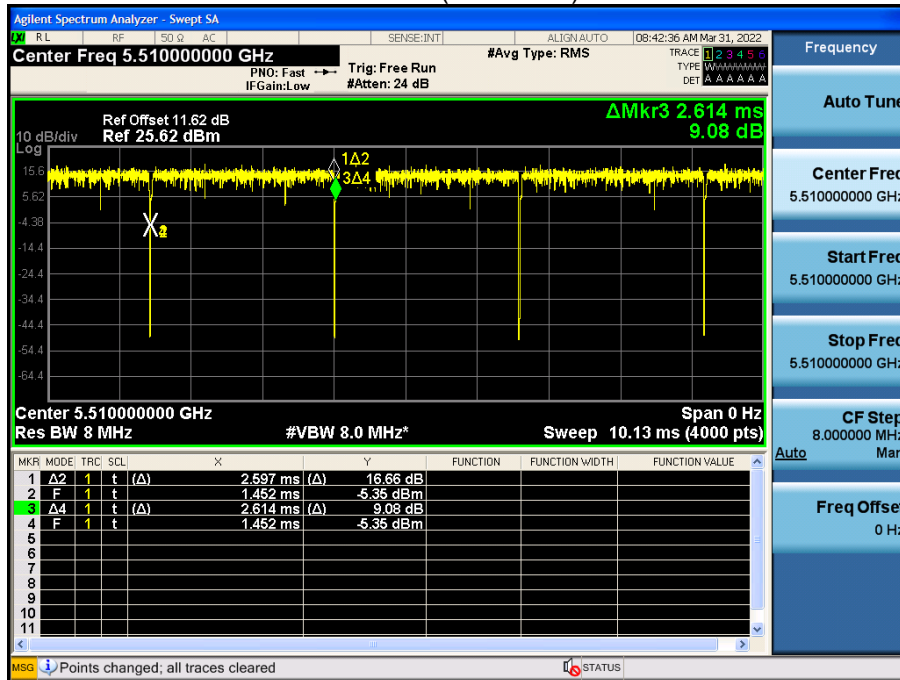
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



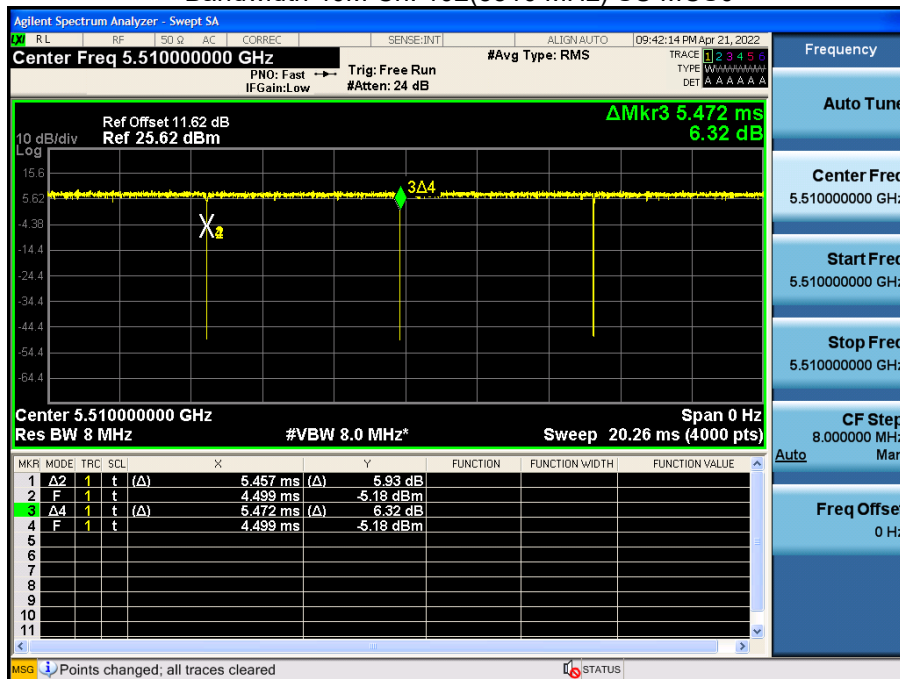
Bandwidth 20M Ch. 100(5500 MHz) SU MCS0



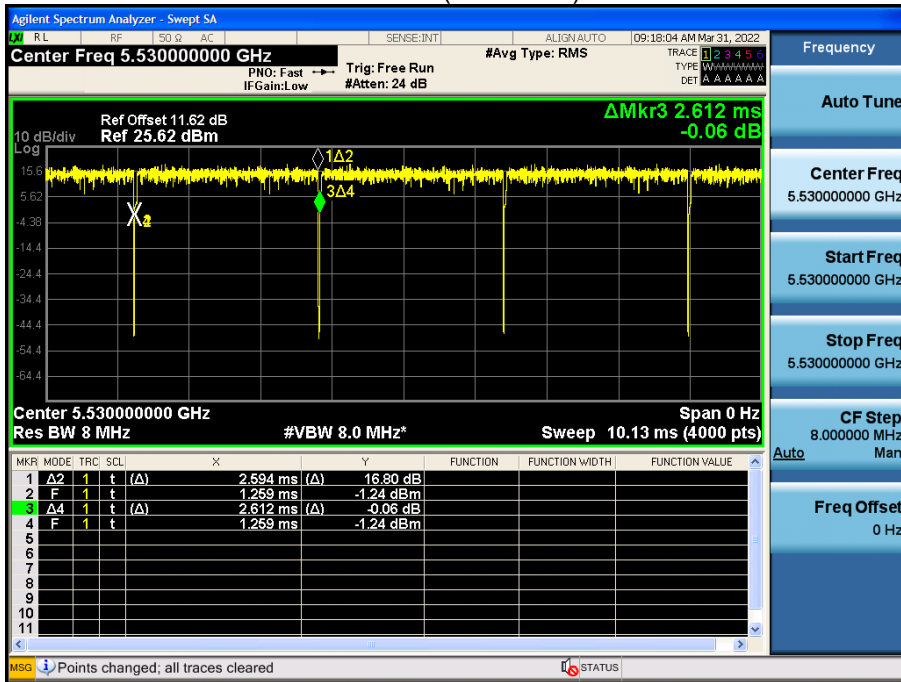
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



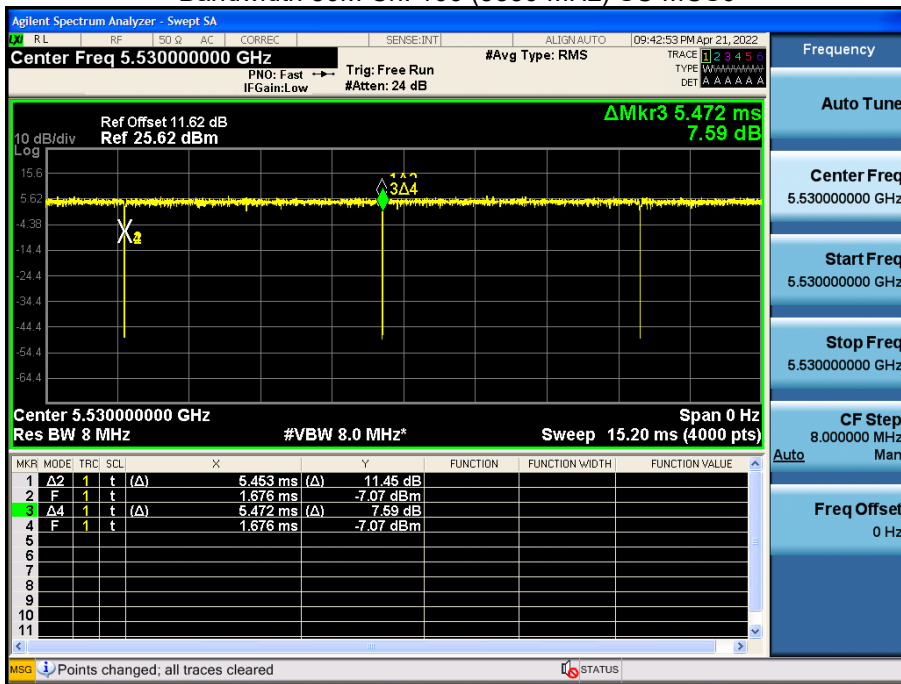
Bandwidth 40M Ch. 102(5510 MHz) SU MCS0



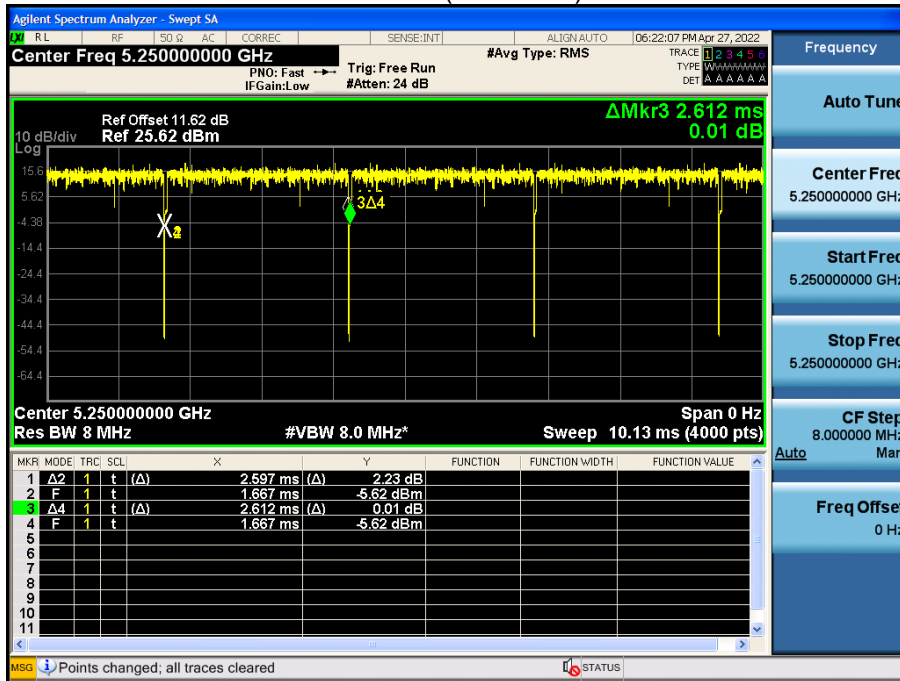
Bandwidth 80M Ch.106 (5530 MHz) 26Tone MCS0



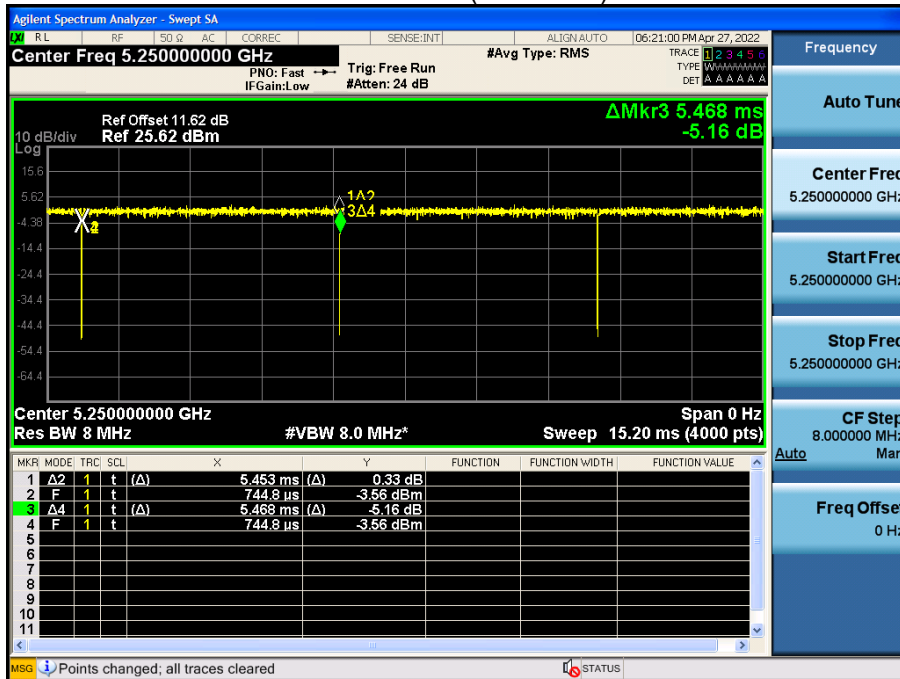
Bandwidth 80M Ch. 106 (5530 MHz) SU MCS0



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



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

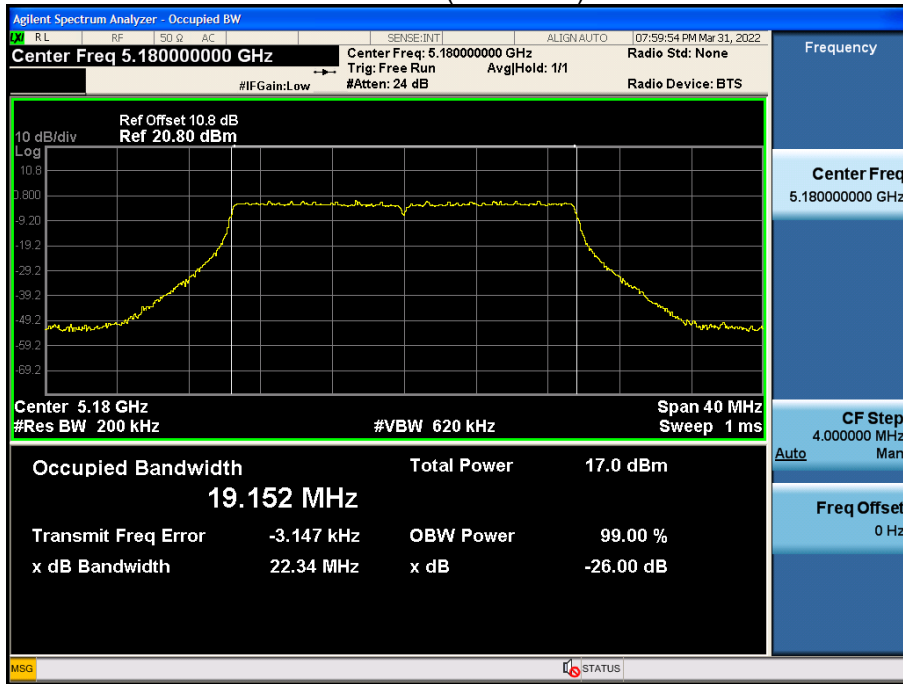


2. 26 dB Bandwidth

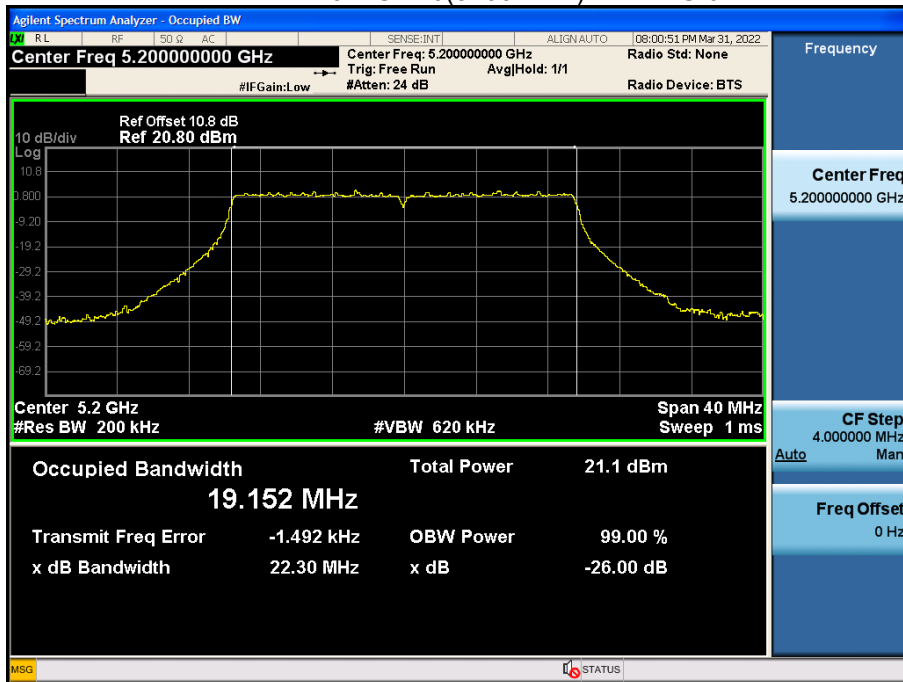
Note:

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.

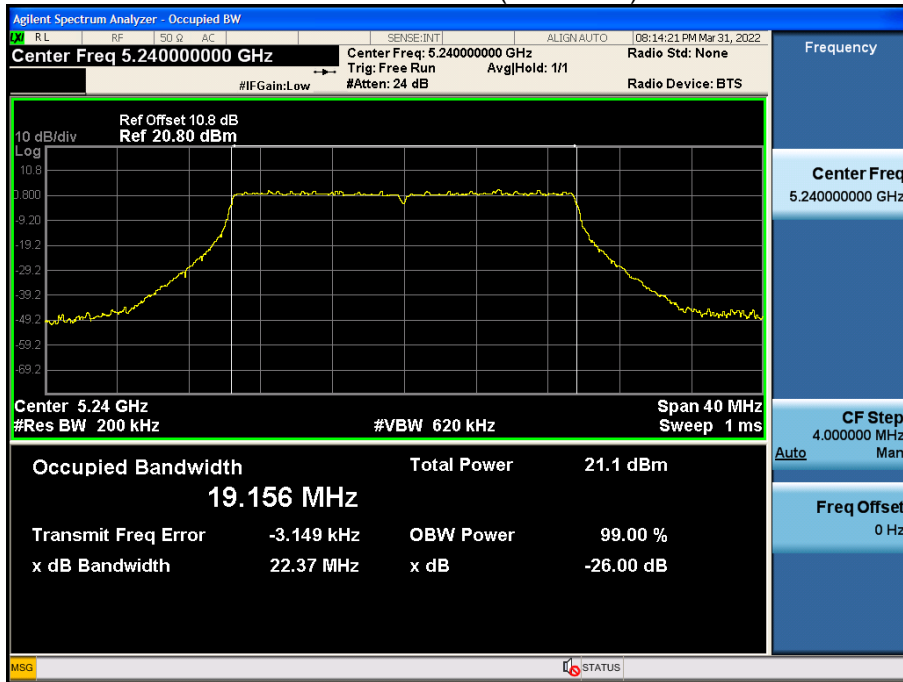
Bandwidth 20M Ch.36(5180 MHz) 242T RU 61



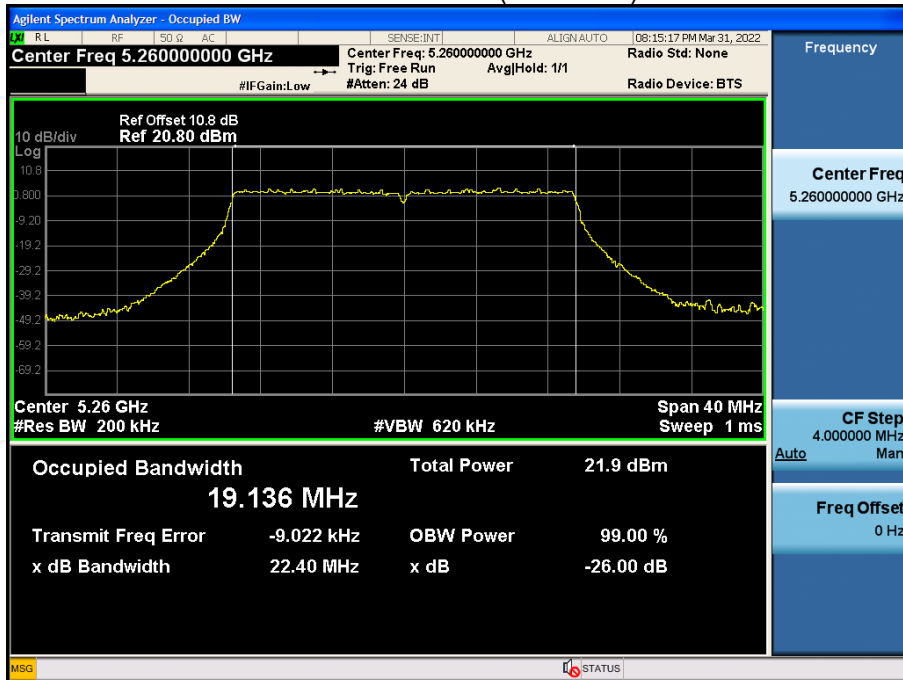
Bandwidth 20M Ch.40(5200 MHz) 242T RU 61



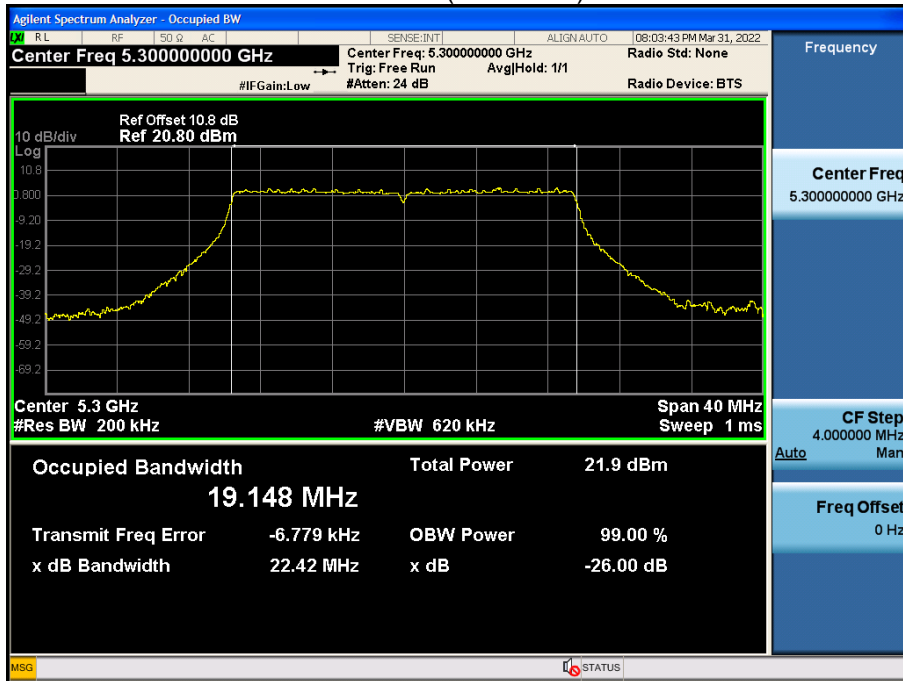
Bandwidth 20M Ch.48(5240 MHz) SU



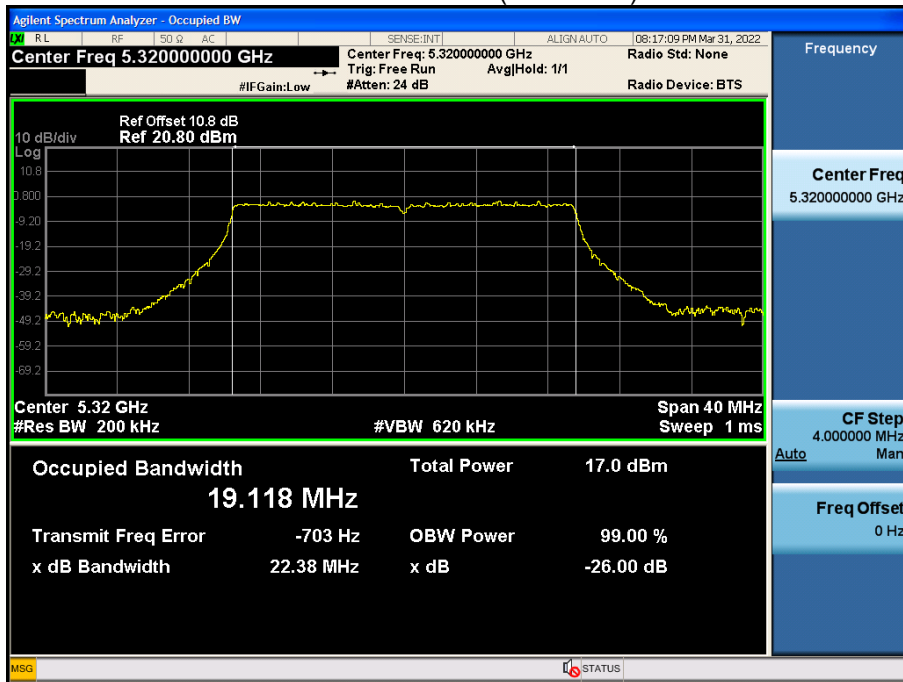
Bandwidth 20M Ch.52(5260 MHz) SU



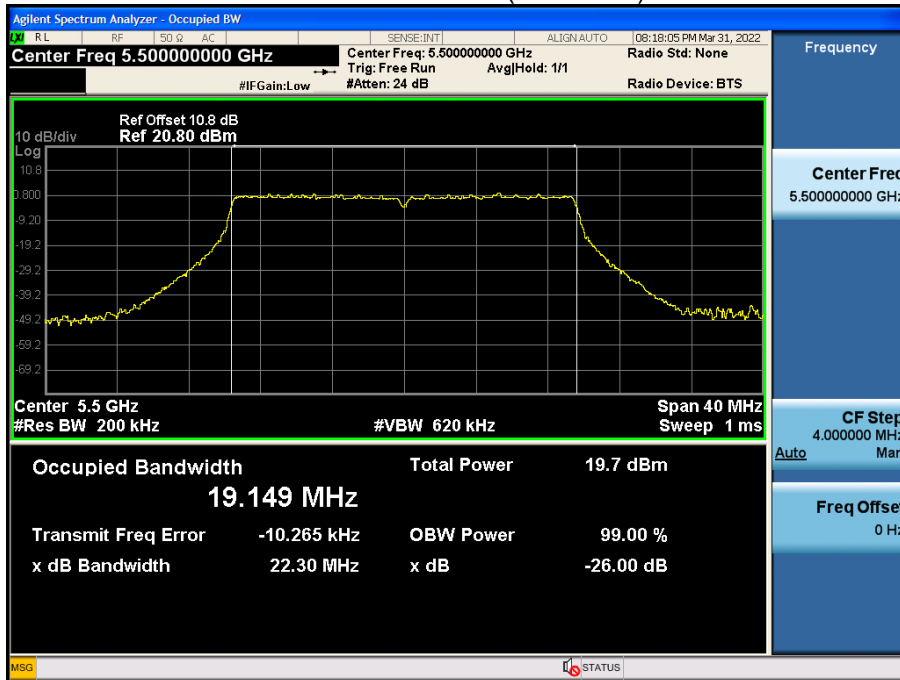
Bandwidth 20M Ch.60(5300 MHz) 242T RU 61



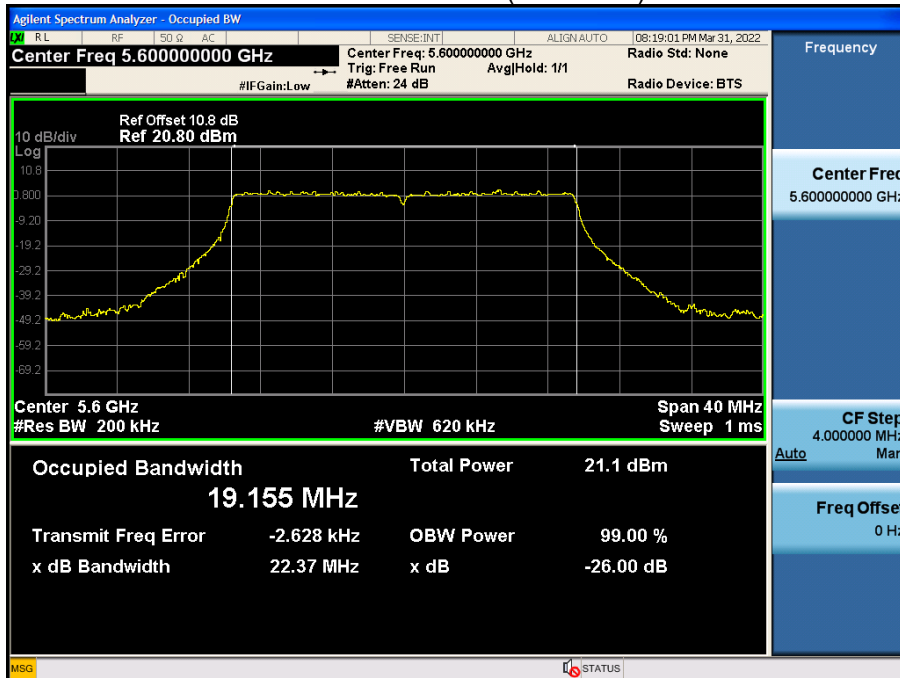
Bandwidth 20M Ch.64(5320 MHz) SU



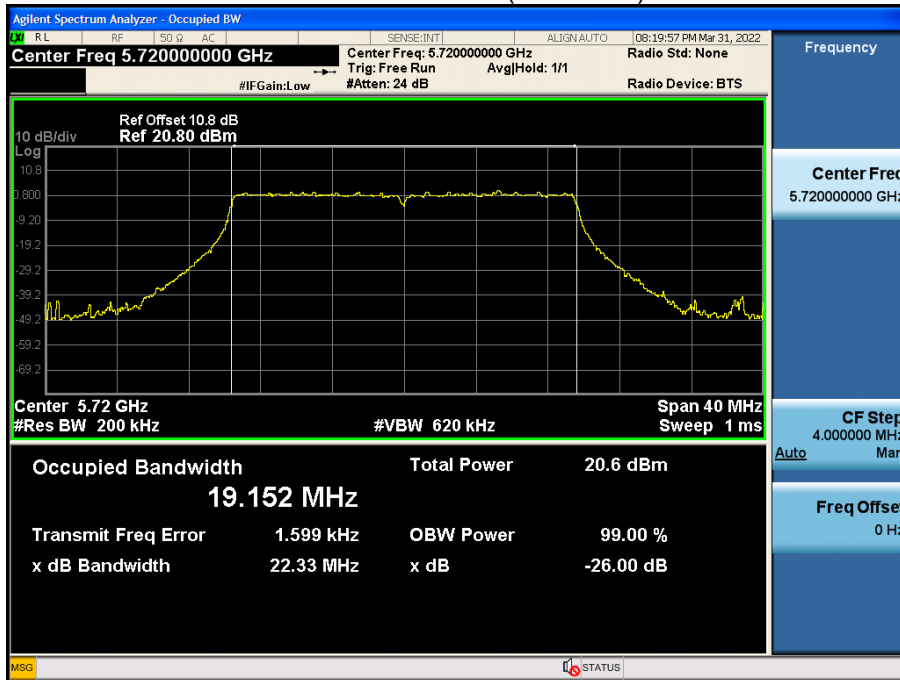
Bandwidth 20M Ch.100(5500 MHz) SU



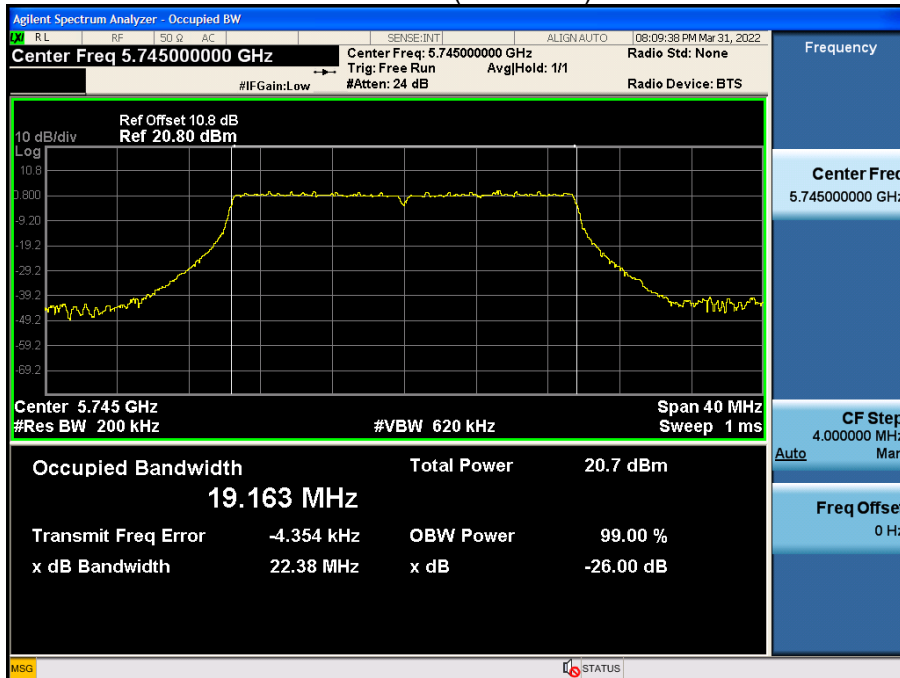
Bandwidth 20M Ch.120(5600 MHz) SU



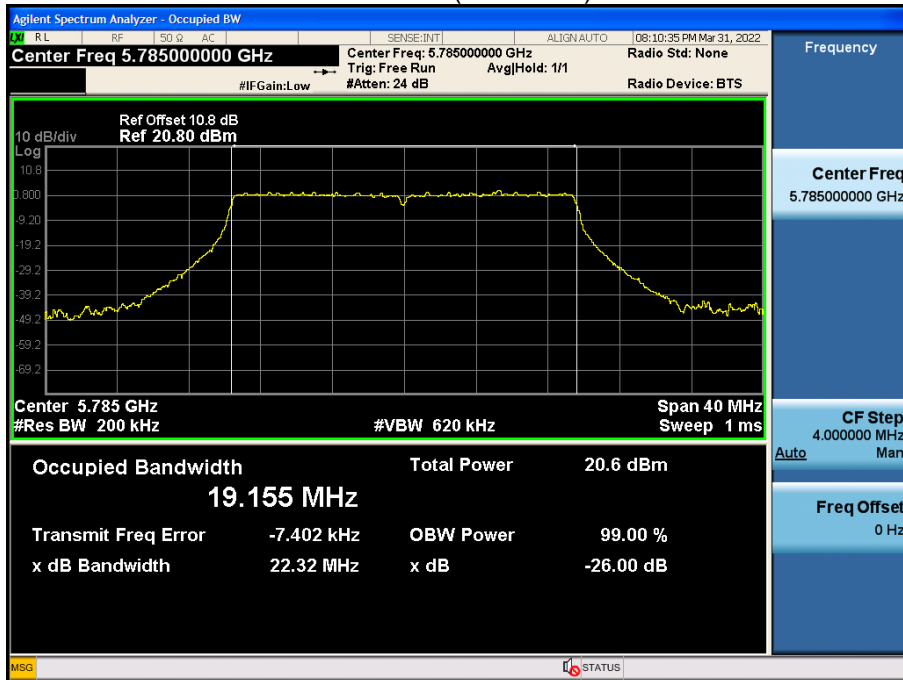
Bandwidth 20M Ch.144(5720 MHz) SU



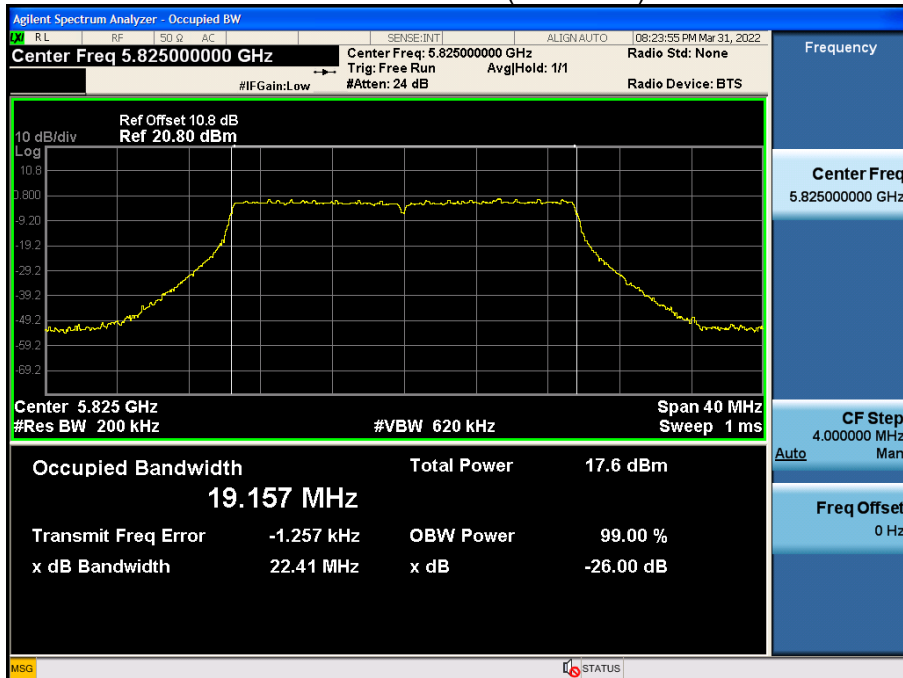
Bandwidth 20M Ch.149(5745 MHz) 242T RU 61



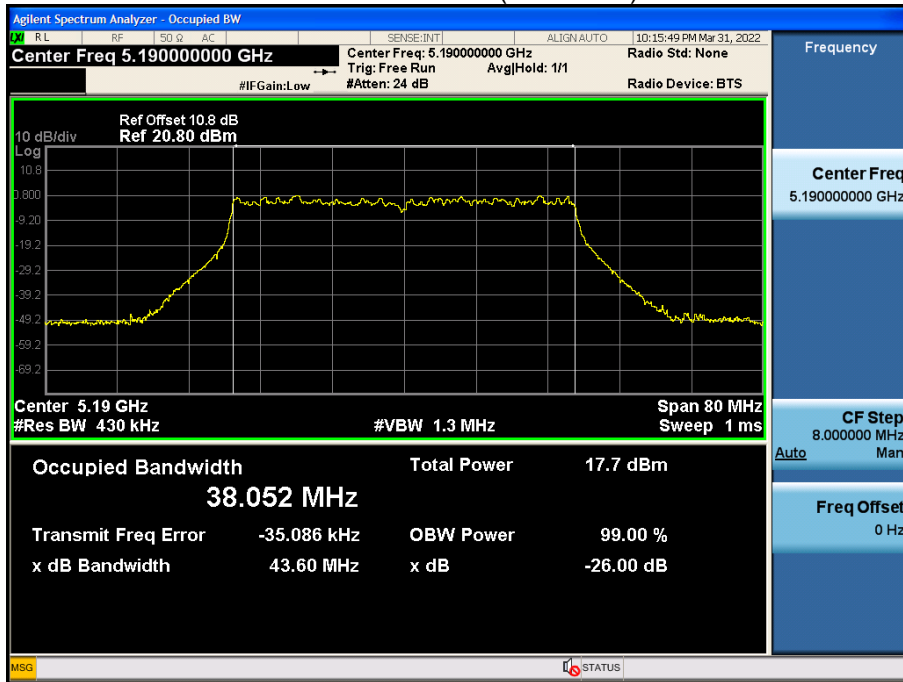
Bandwidth 20M Ch.157(5785 MHz) 242T RU 61



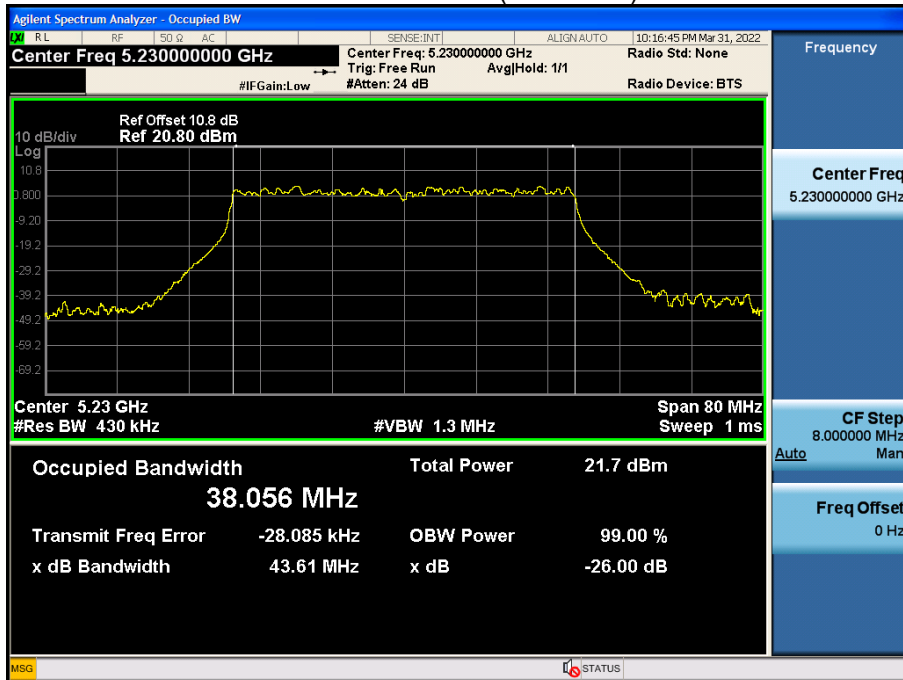
Bandwidth 20M Ch.165(5825 MHz) SU



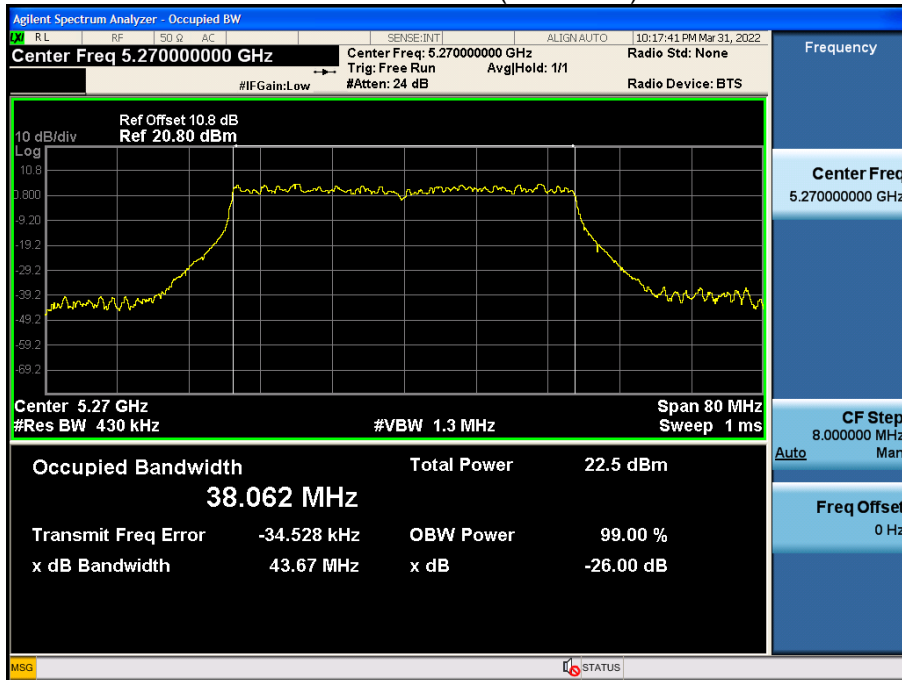
Bandwidth 40M Ch.38(5190 MHz) SU



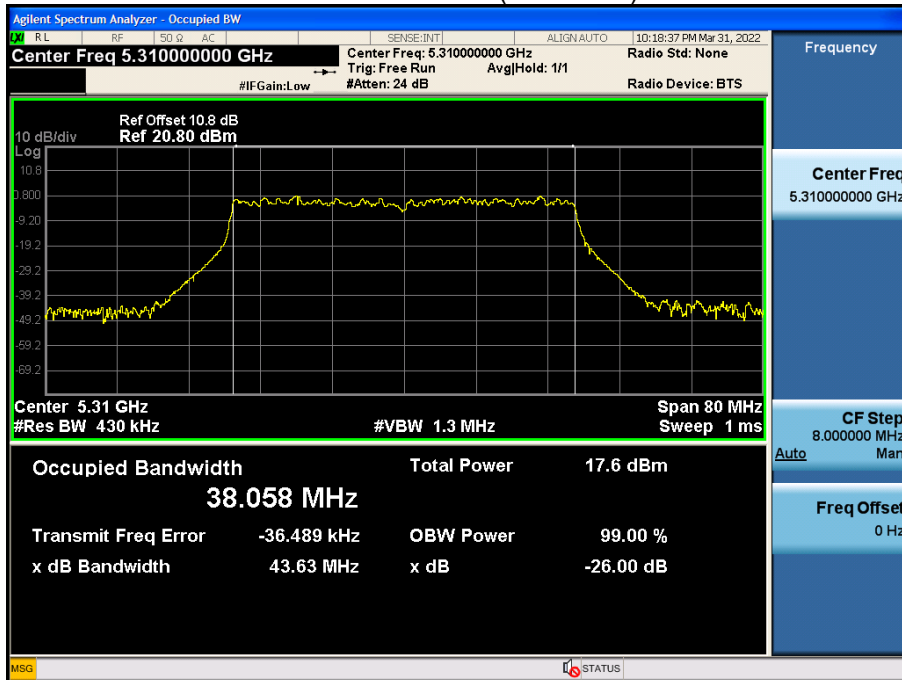
Bandwidth 40M Ch.46(5230 MHz) SU



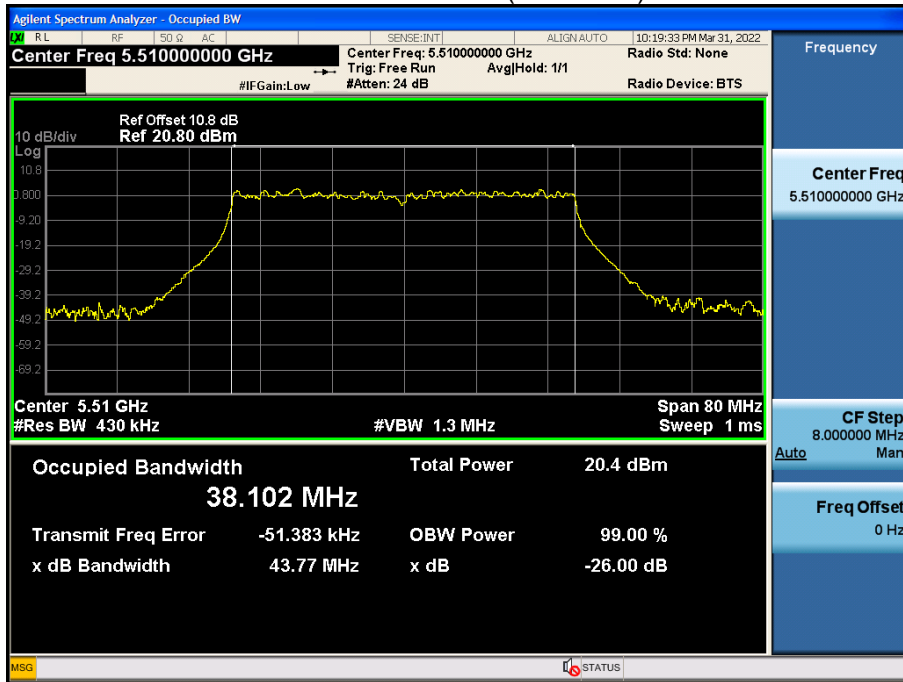
Bandwidth 40M Ch.54(5270 MHz) SU



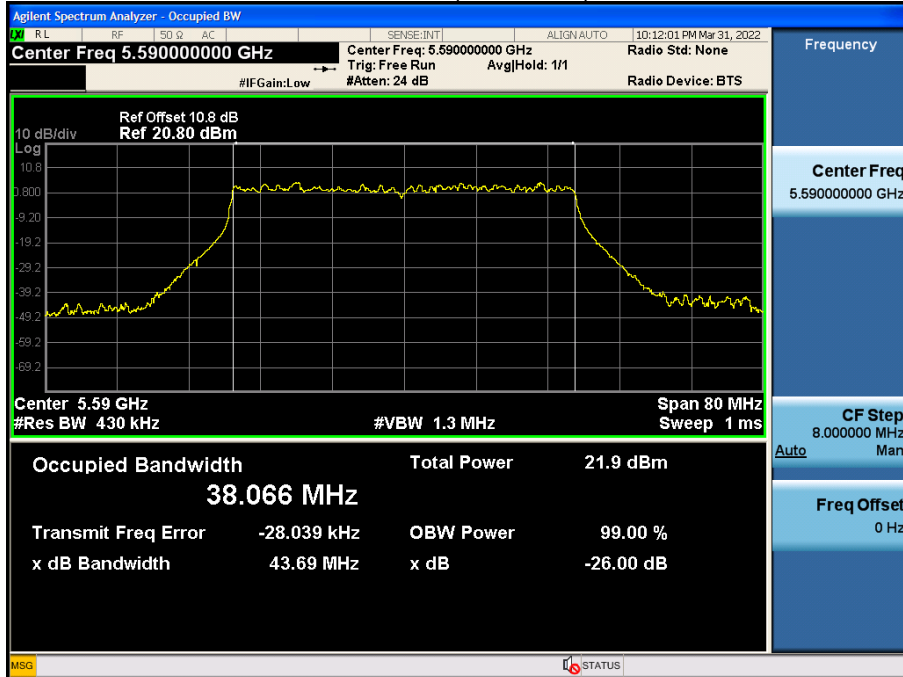
Bandwidth 40M Ch.62(5310 MHz) SU



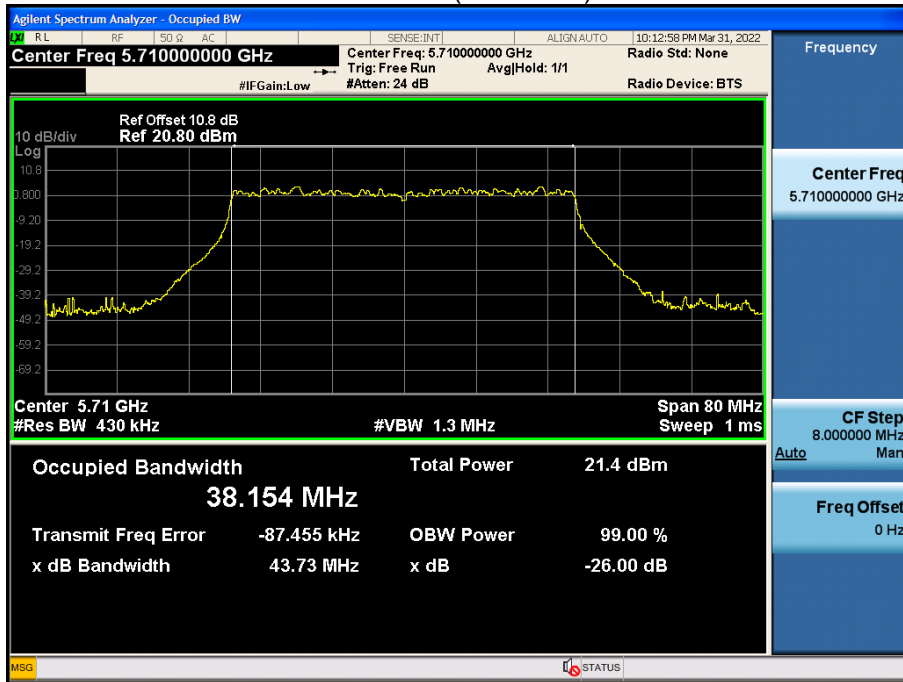
Bandwidth 40M Ch.102(5510 MHz) SU



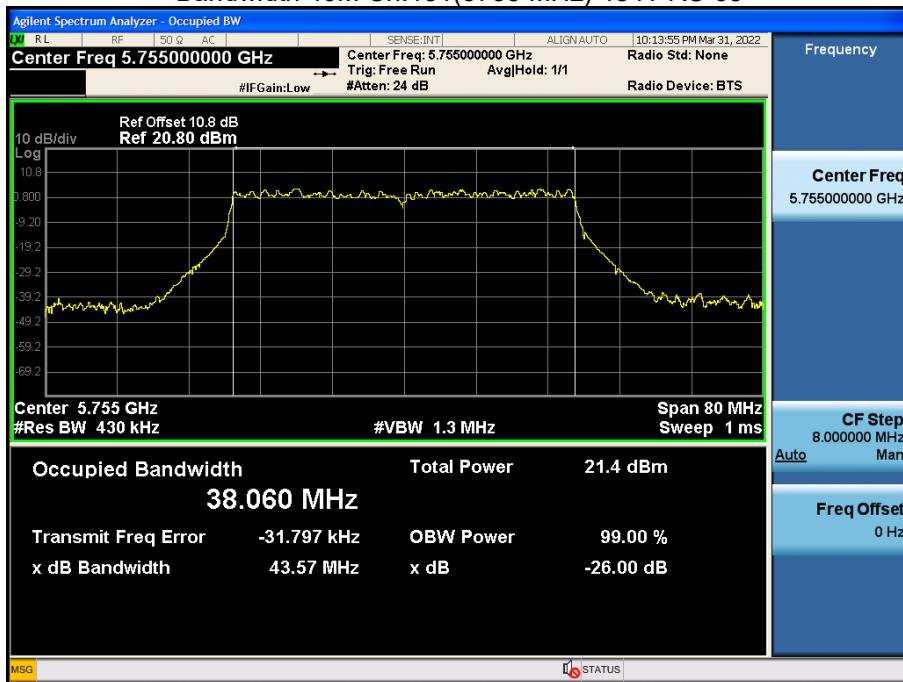
Bandwidth 40M Ch.118(5590 MHz) 484T RU 65



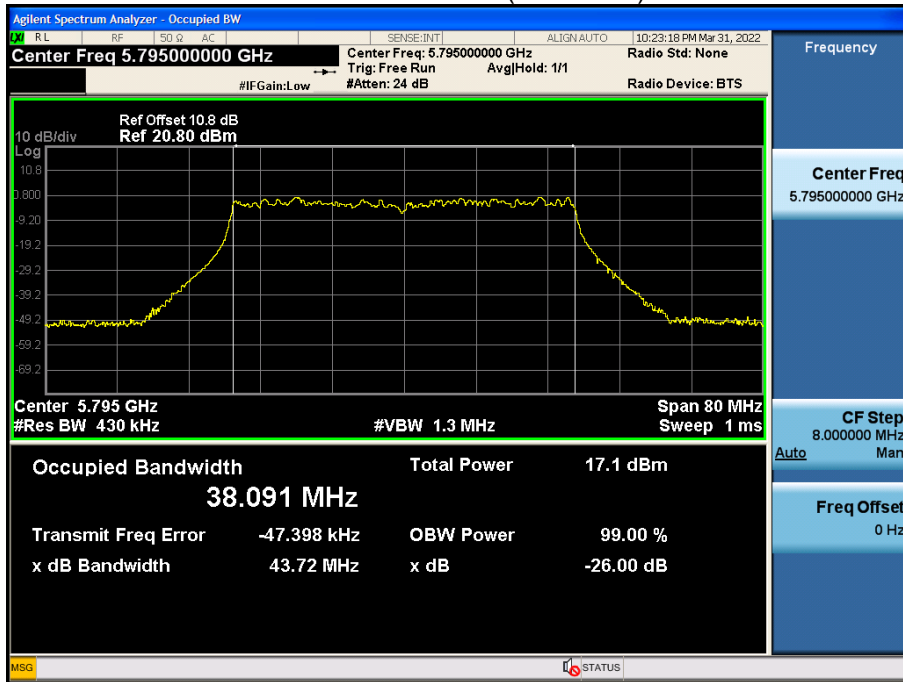
Bandwidth 40M Ch.142(5710 MHz) 484T RU 65



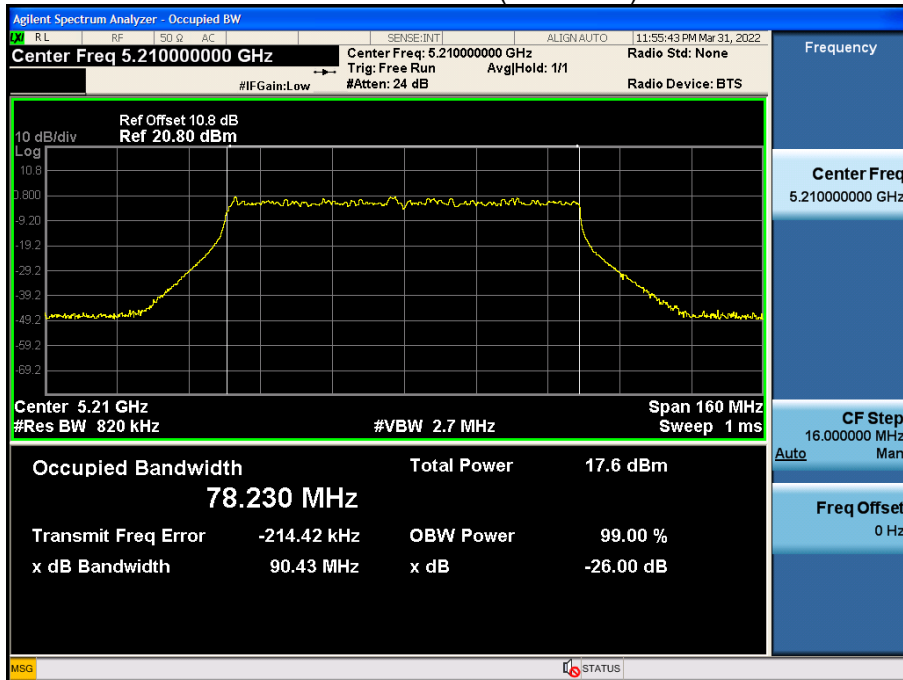
Bandwidth 40M Ch.151(5755 MHz) 484T RU 65



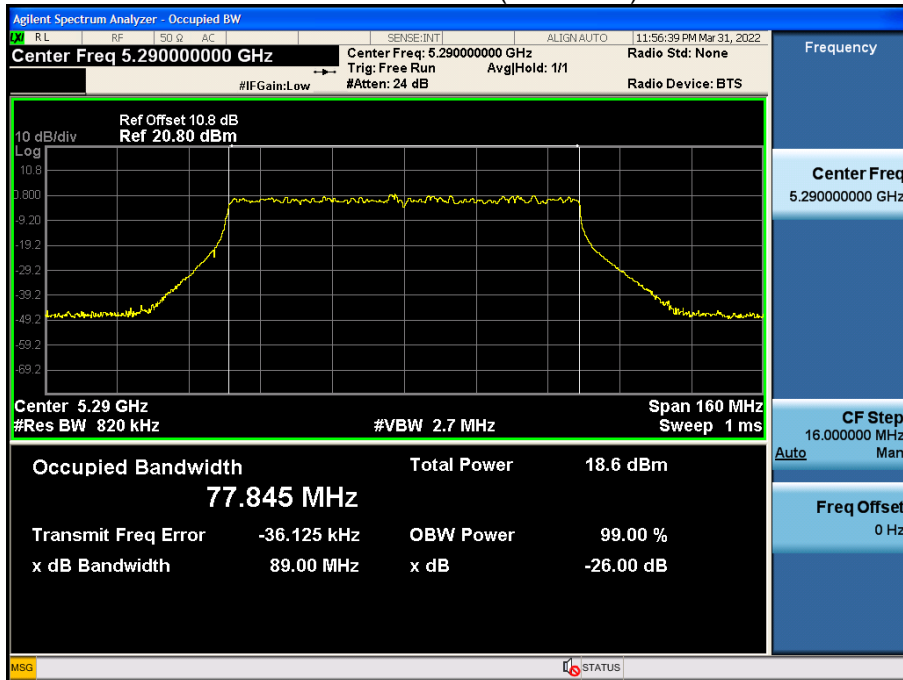
Bandwidth 40M Ch.159(5795 MHz) SU



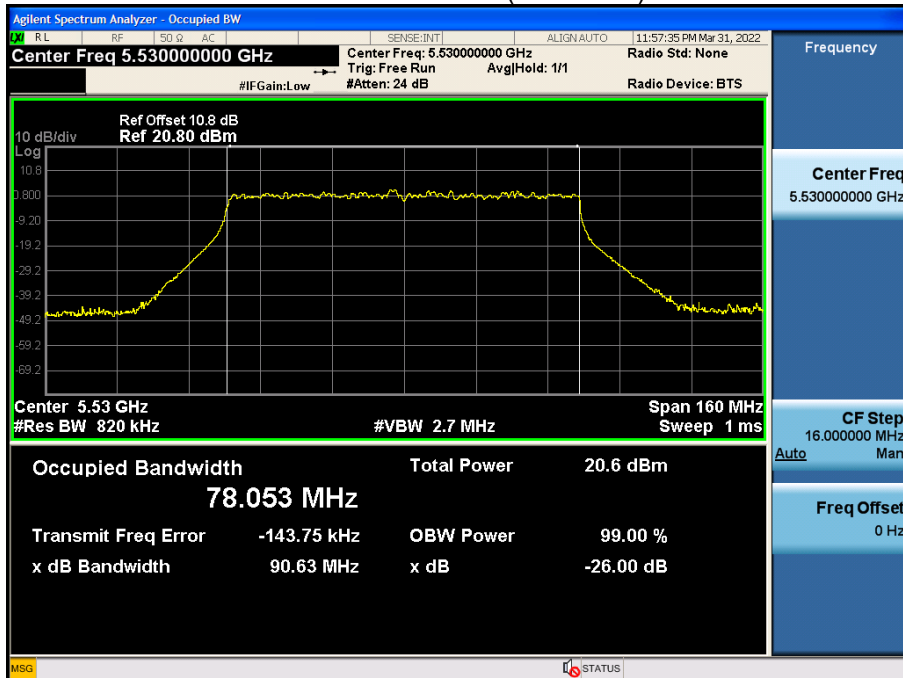
Bandwidth 80M Ch.42(5210 MHz) SU



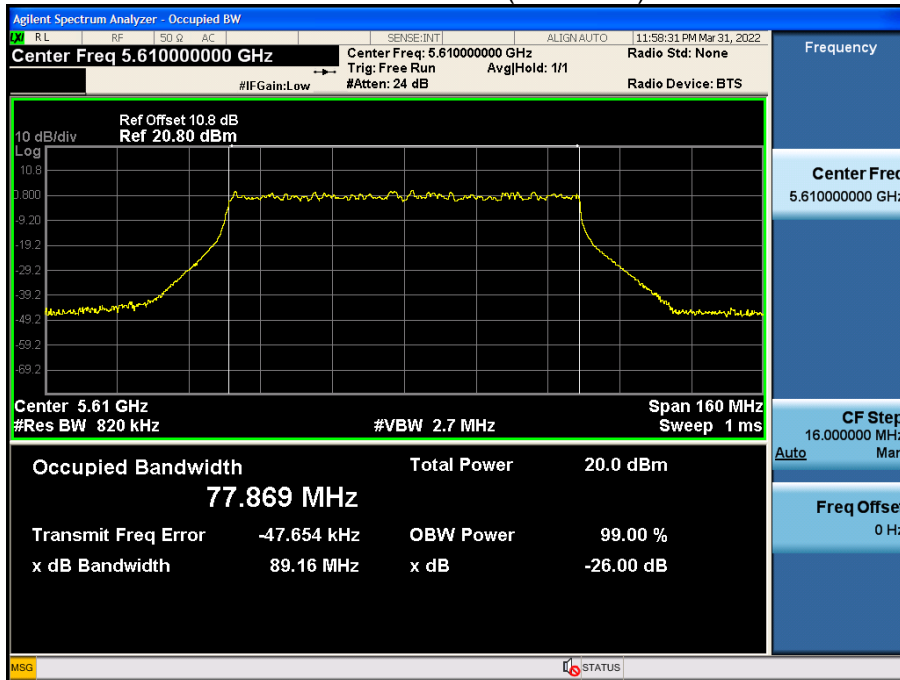
Bandwidth 80M Ch.58(5290 MHz) SU



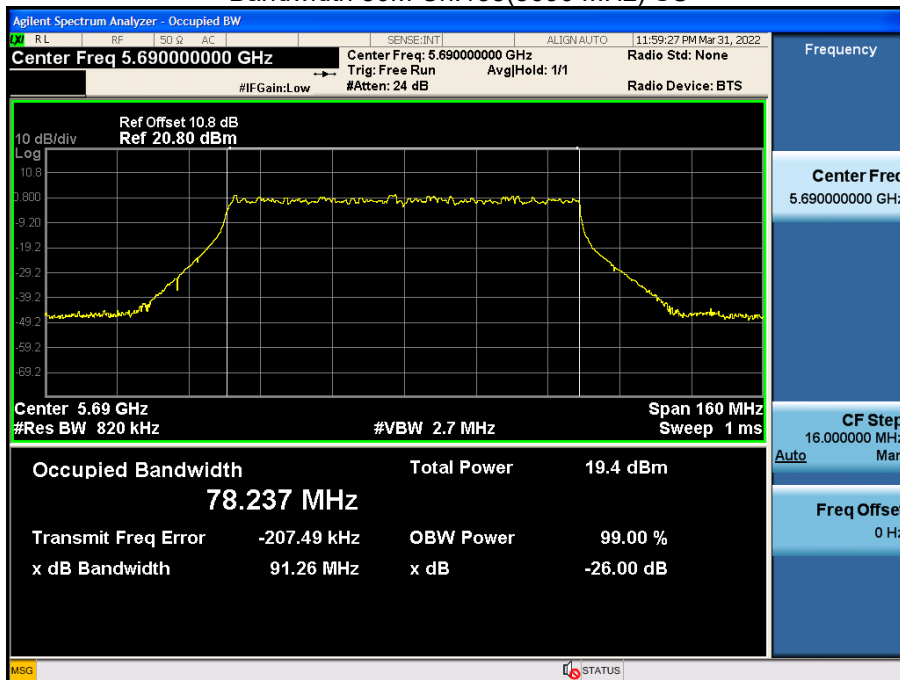
Bandwidth 80M Ch.106(5530 MHz) SU



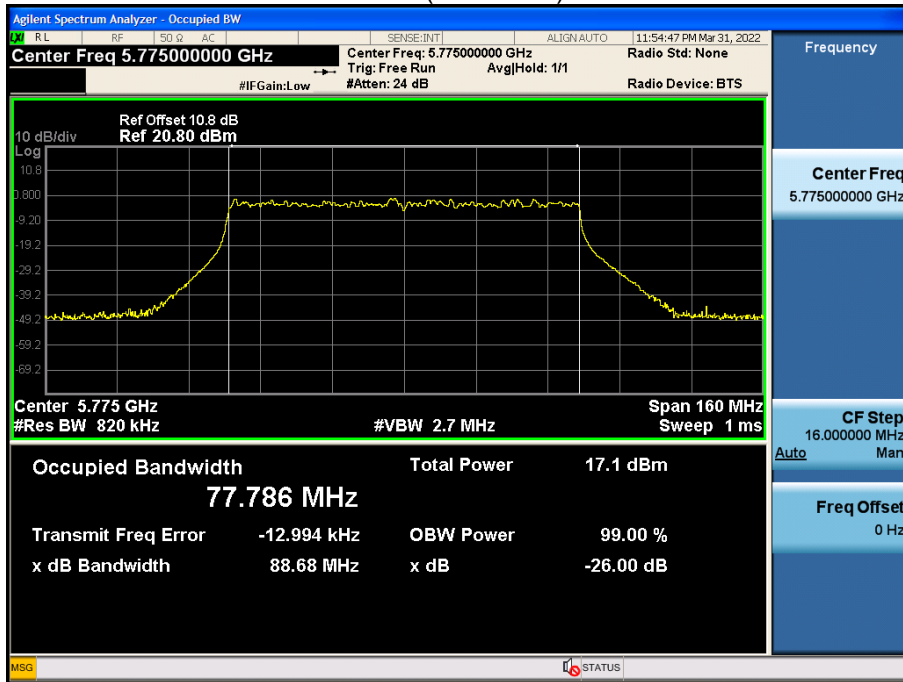
Bandwidth 80M Ch.122(5610 MHz) SU



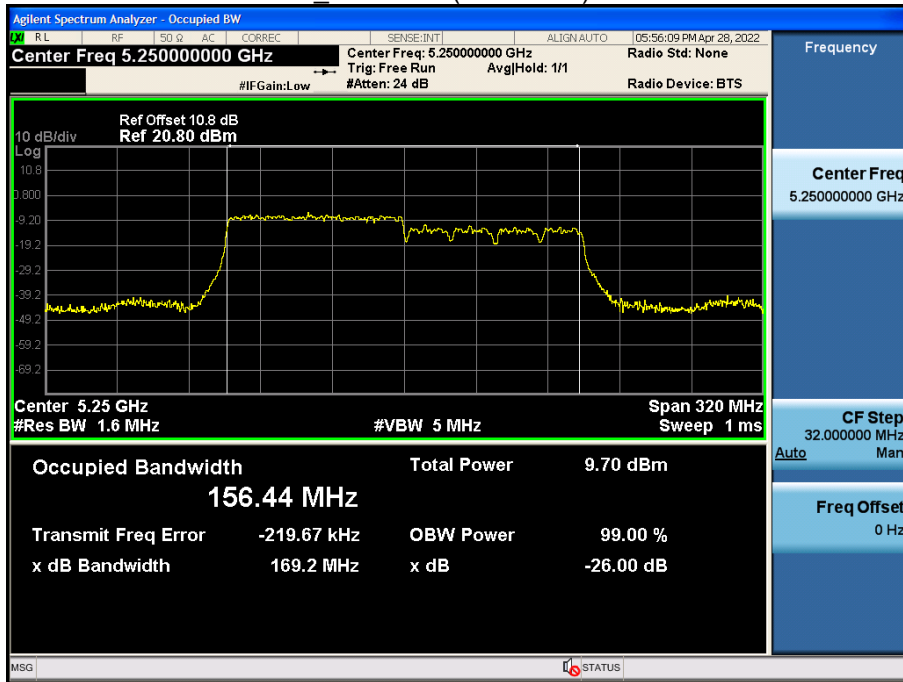
Bandwidth 80M Ch.138(5690 MHz) SU



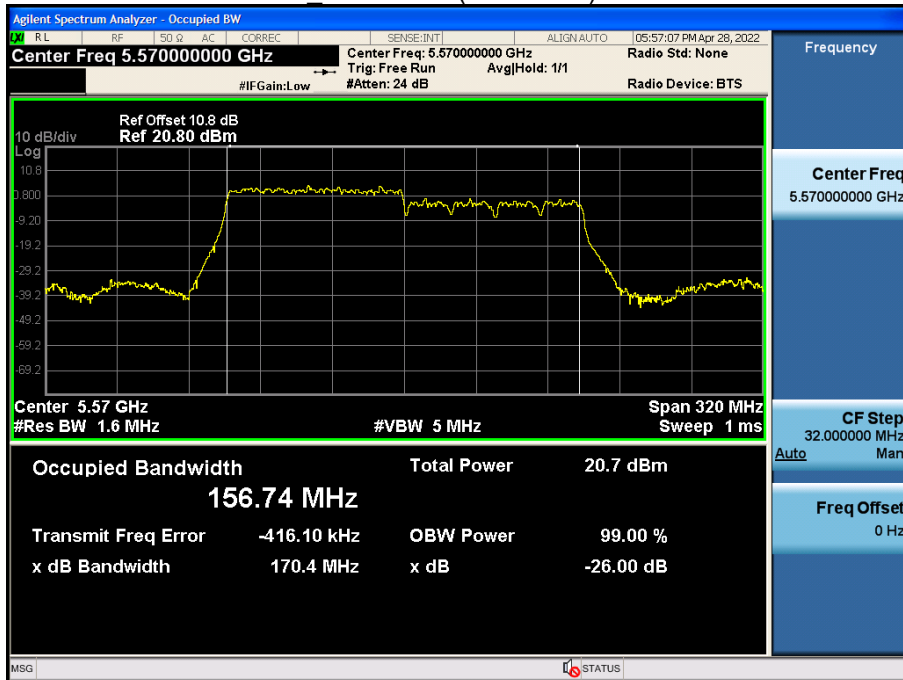
Bandwidth 80M Ch.155(5775 MHz) 996Tones RU 67



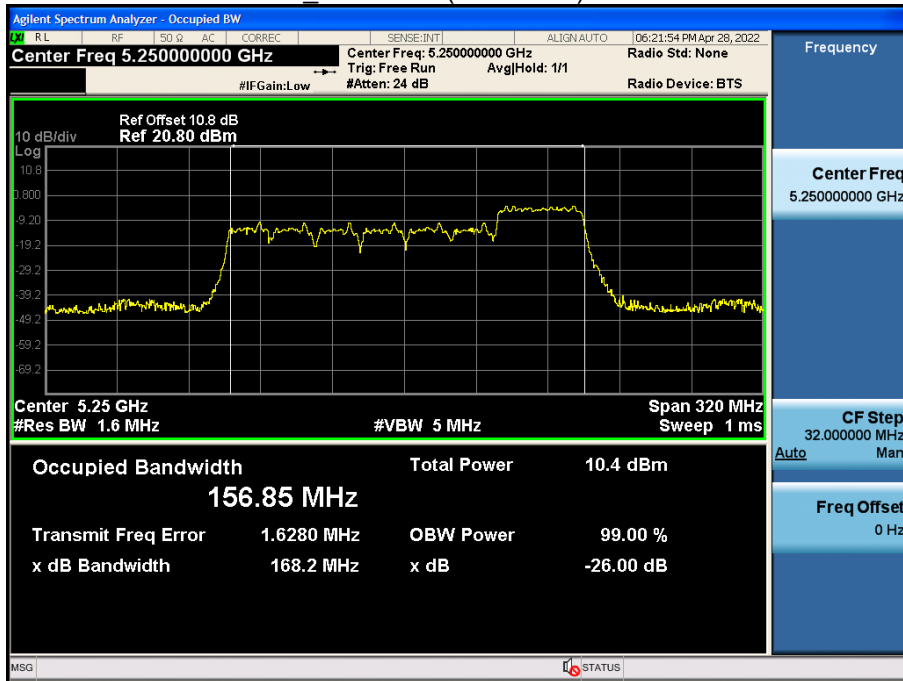
Bandwidth 160M 80L Ch.50(5250 MHz) 996 Tones RU 67



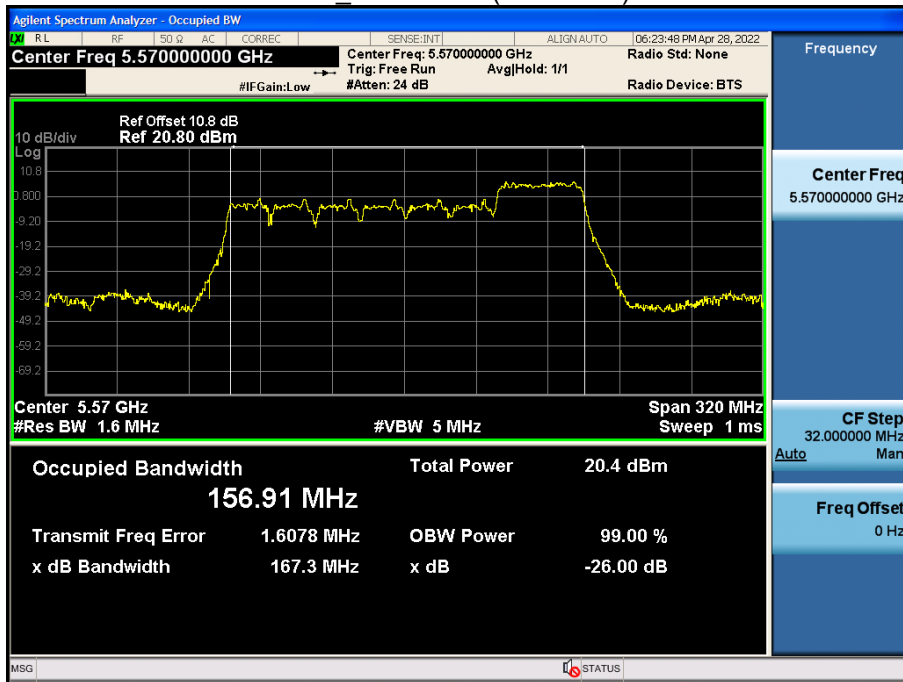
Bandwidth 160M 80L Ch.114(5570 MHz) 996 Tones RU 67



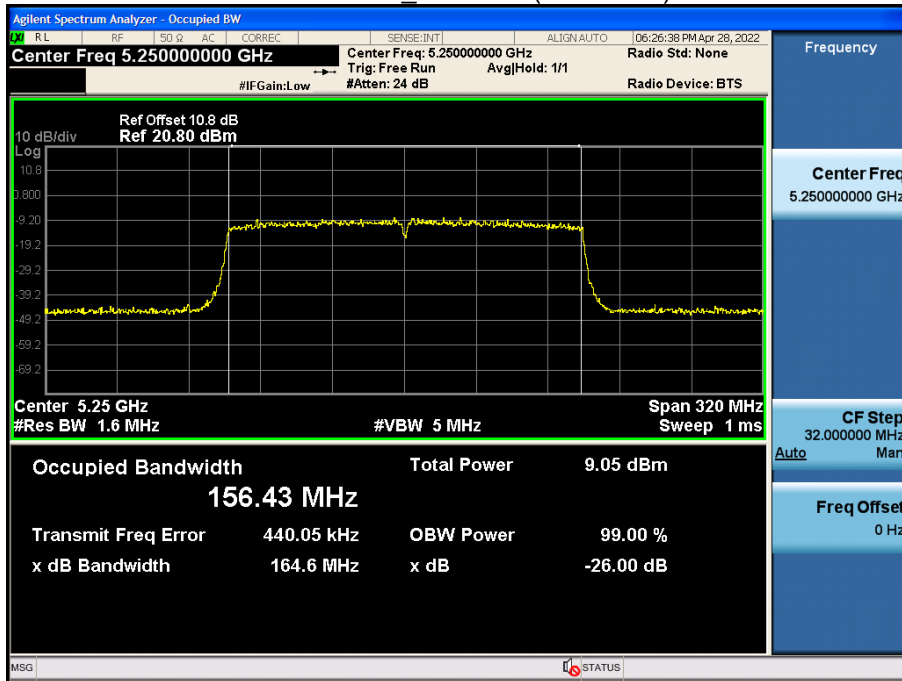
Bandwidth 160M 80U Ch.50(5250 MHz) 484T Tones RU 66



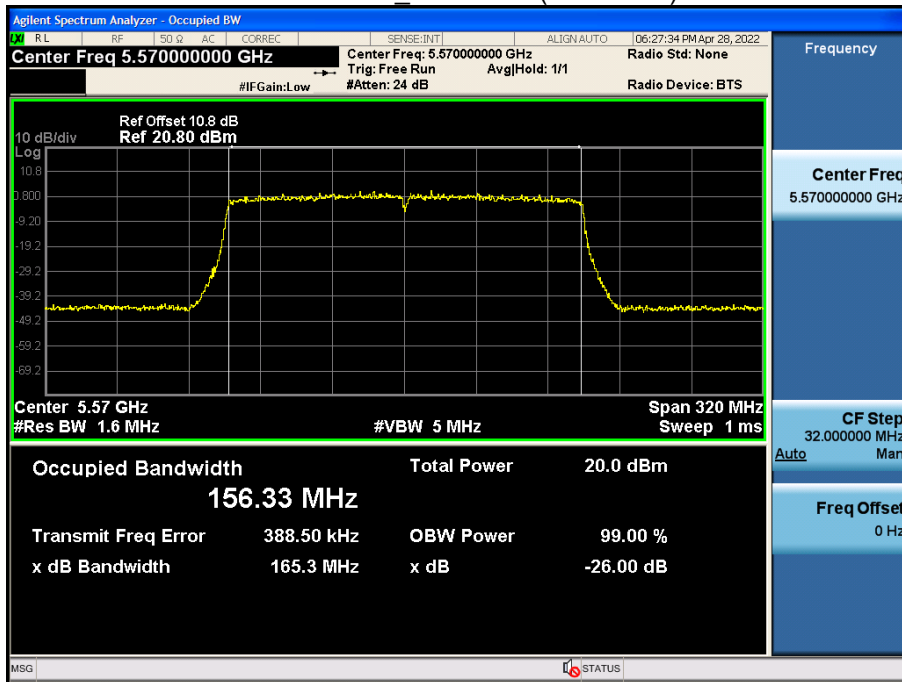
Bandwidth 160M 80U Ch.114(5570 MHz) 484T RU 66



Bandwidth 160M_SU Ch.50(5250 MHz) SU



Bandwidth 160M_SU Ch.114(5570 MHz) SU



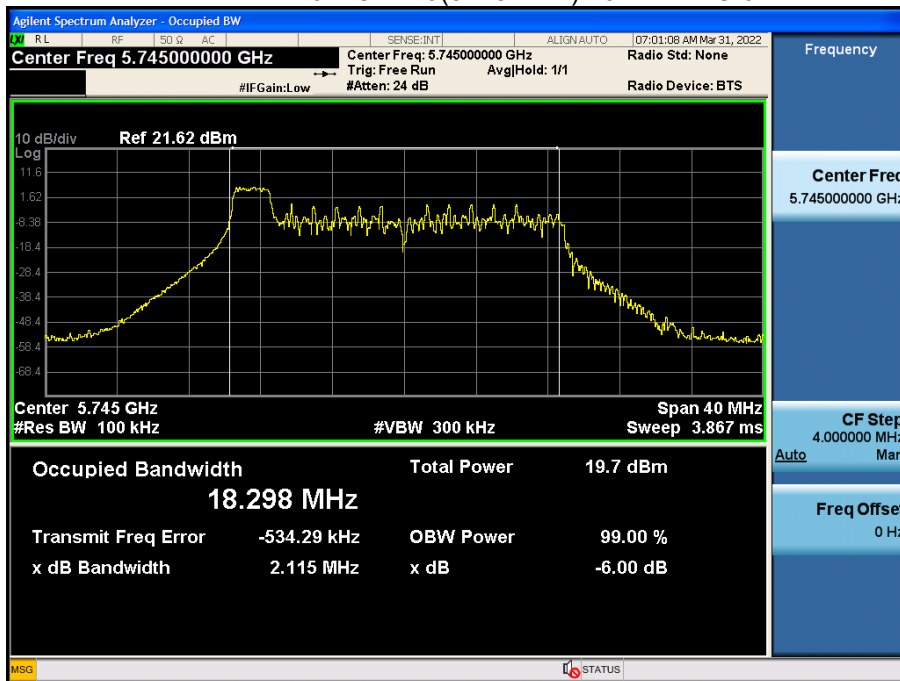
3. 6 dB Bandwidth

Note:

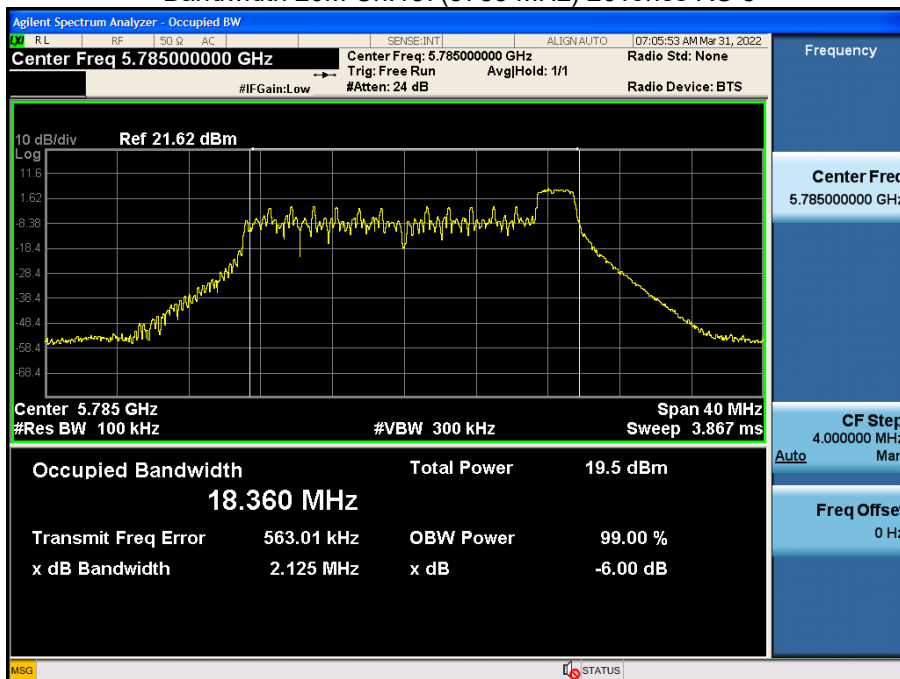
1. In order to simplify the report, attached plots were only the most narrow channel.

3.1 MIMO Ant1

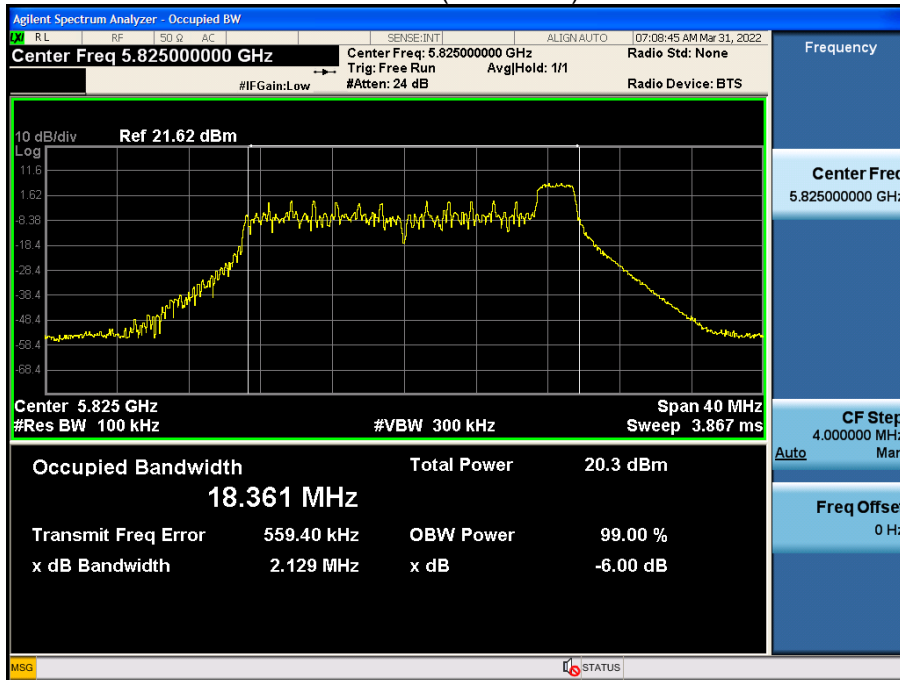
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 0



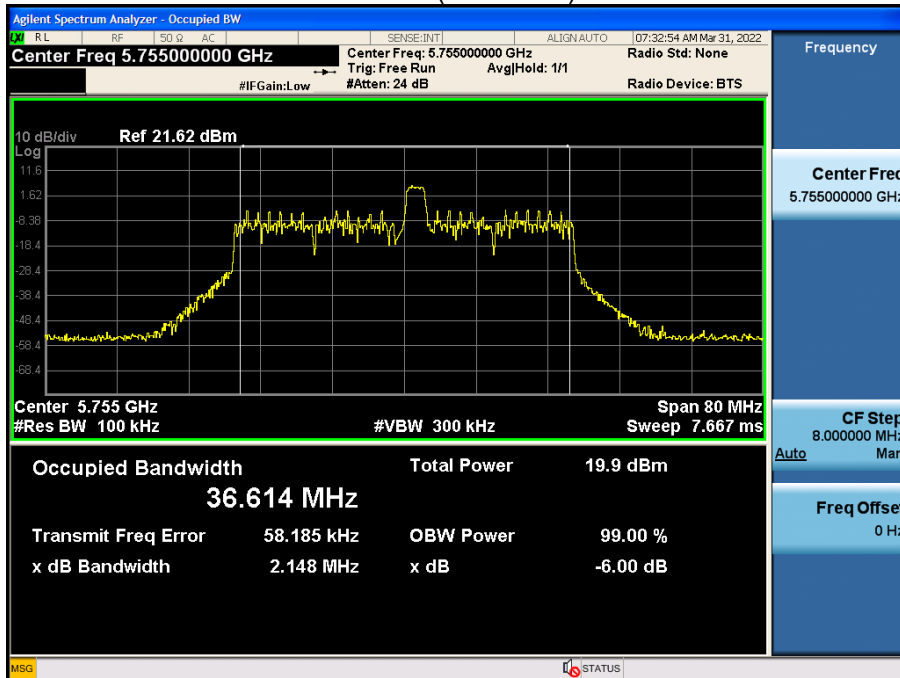
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



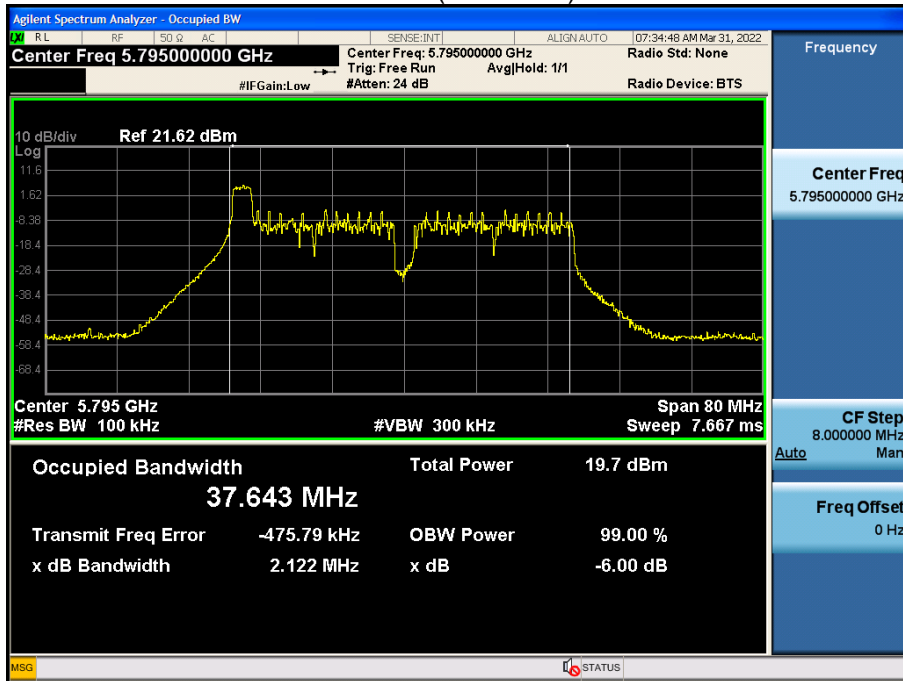
Bandwidth 20M Ch.165(5825 MHz) 26Tones RU 8



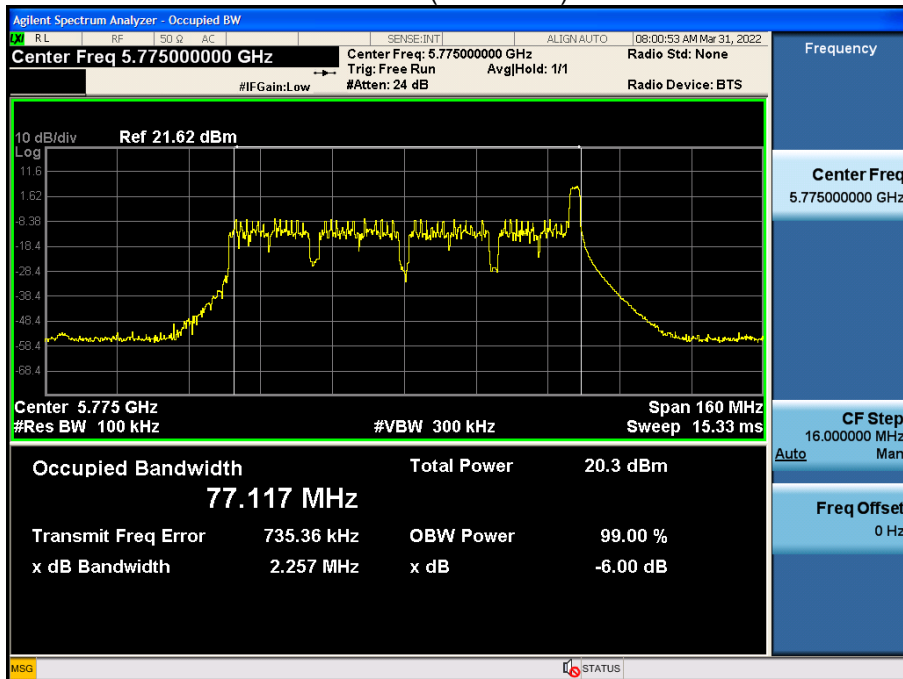
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 9



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

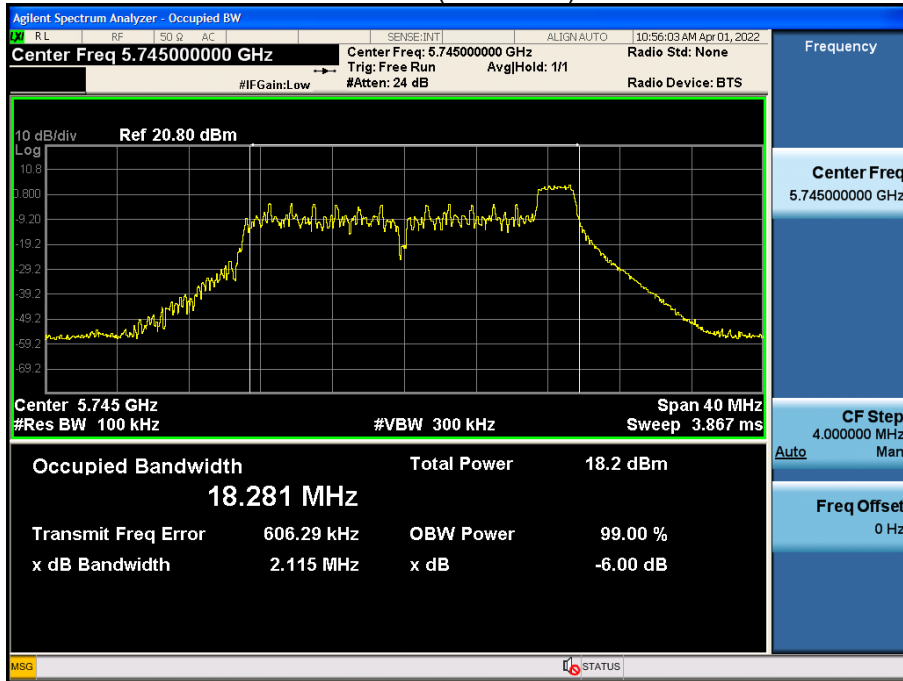


Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 36

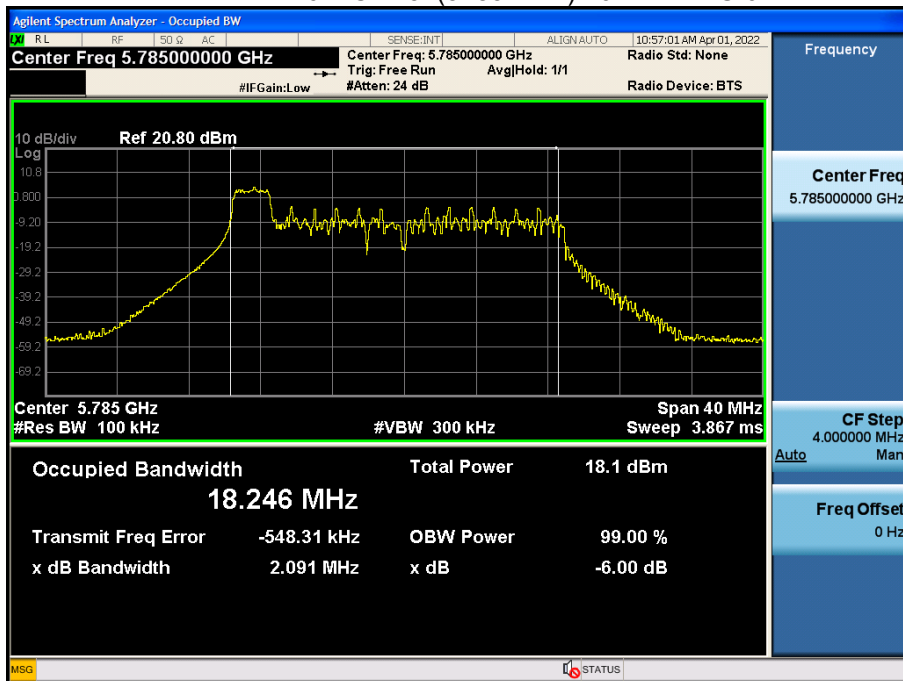


3.2 MIMO Ant2

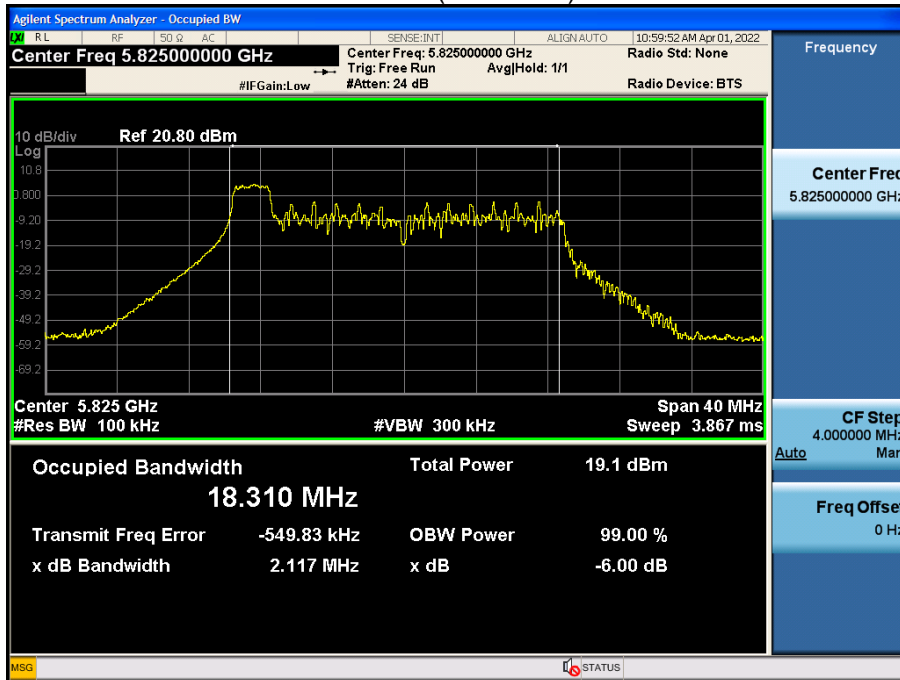
Bandwidth 20M Ch.149(5745 MHz) 26 Tones RU 8



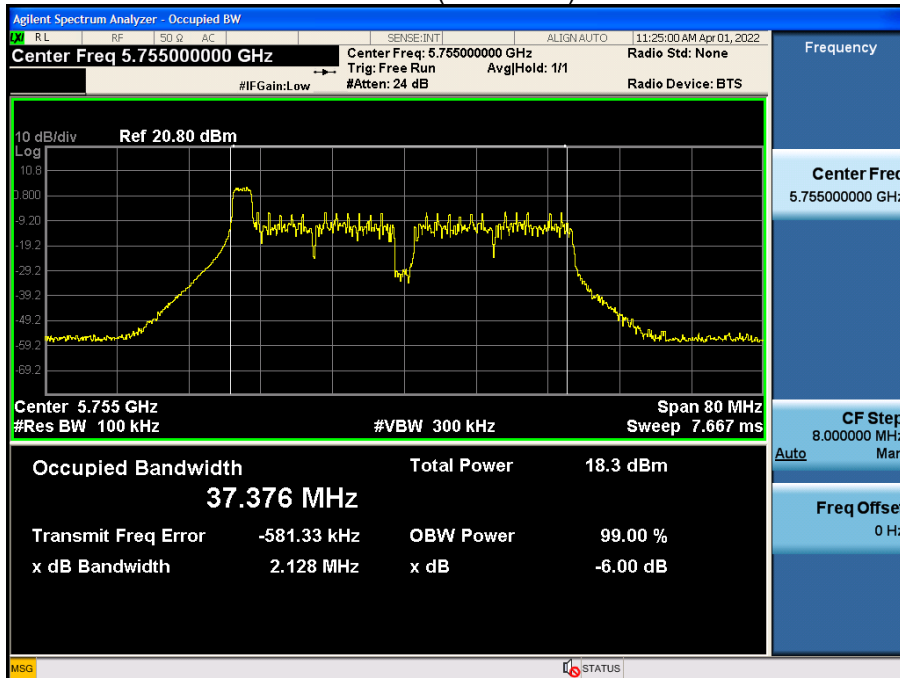
Bandwidth 20M Ch.157(5785 MHz) 26 Tones RU 0



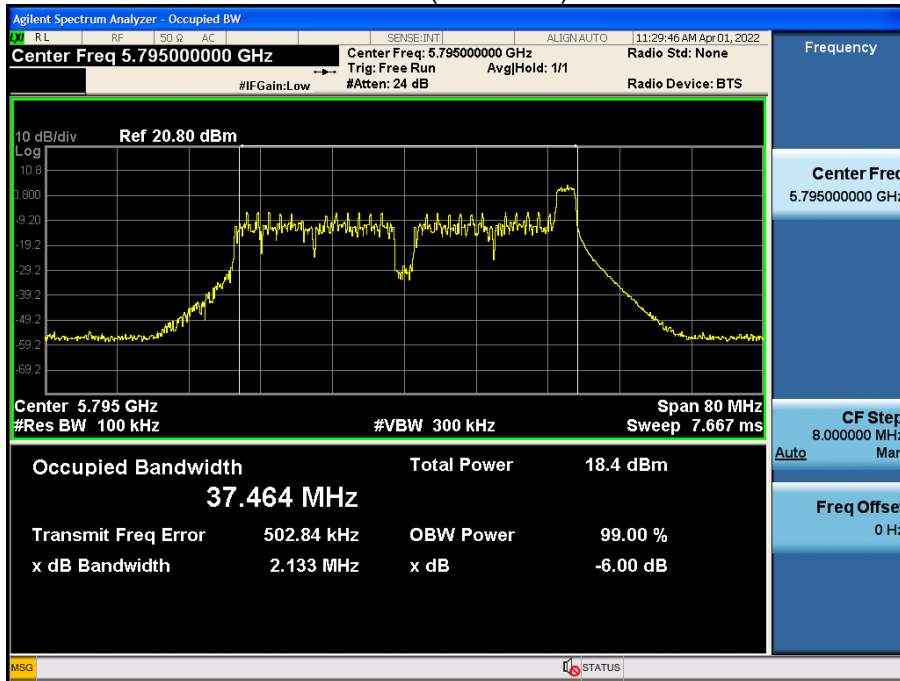
Bandwidth 20M Ch.165(5825 MHz) 26 Tones RU 0



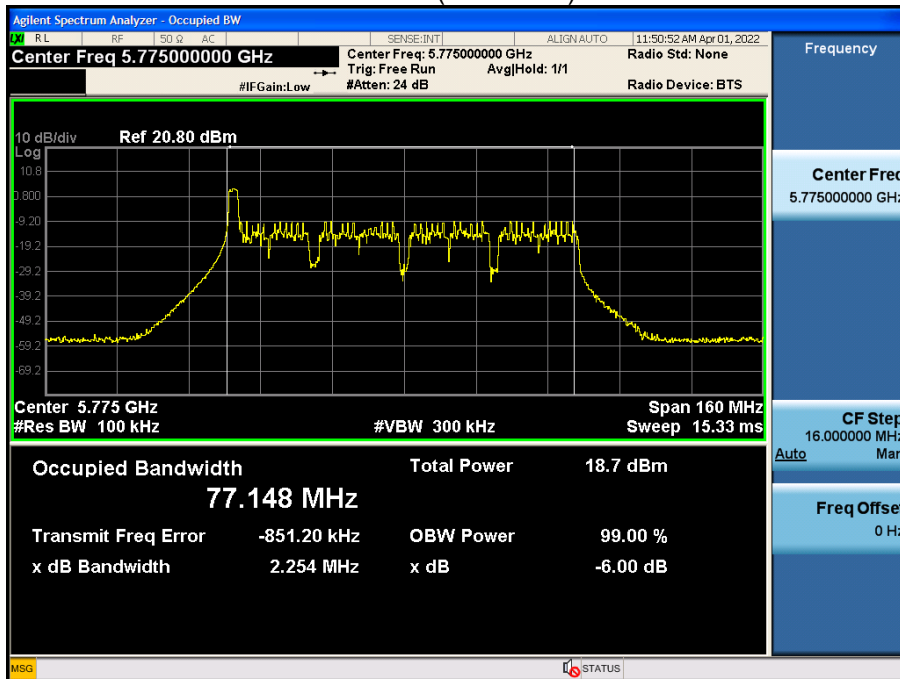
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 0



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



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

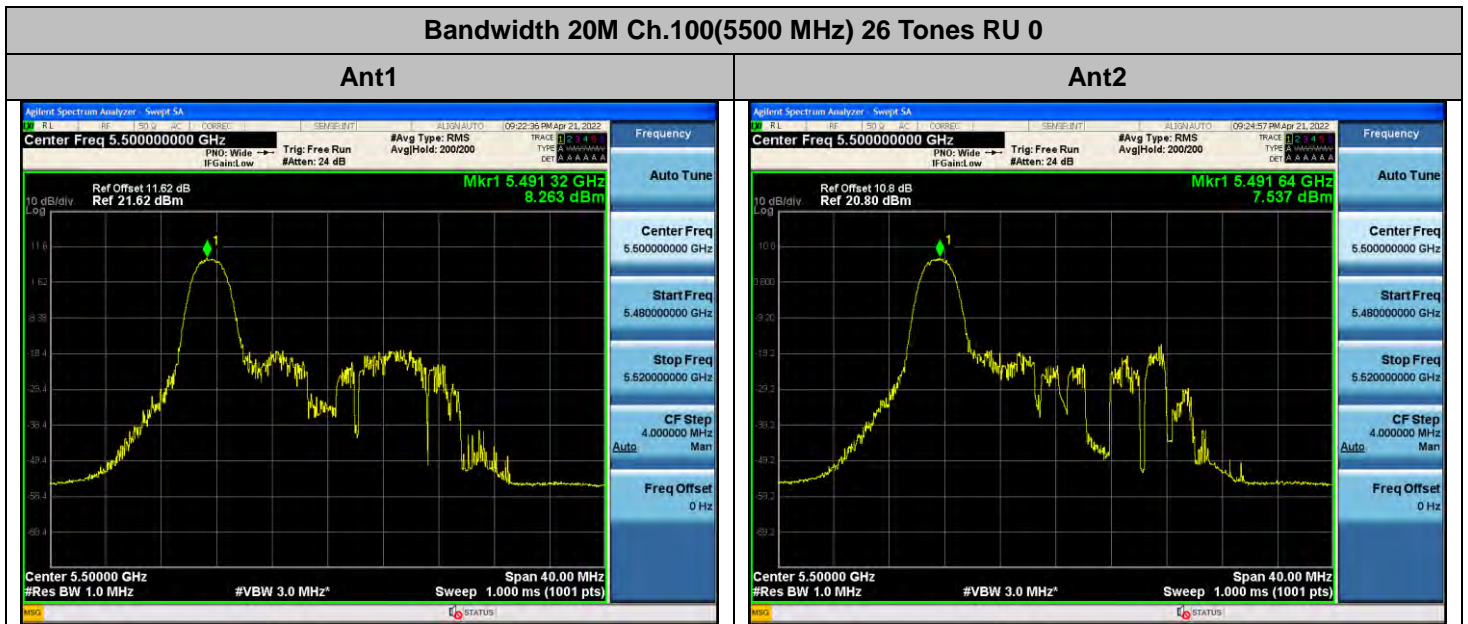


4. Power Spectral Density

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)

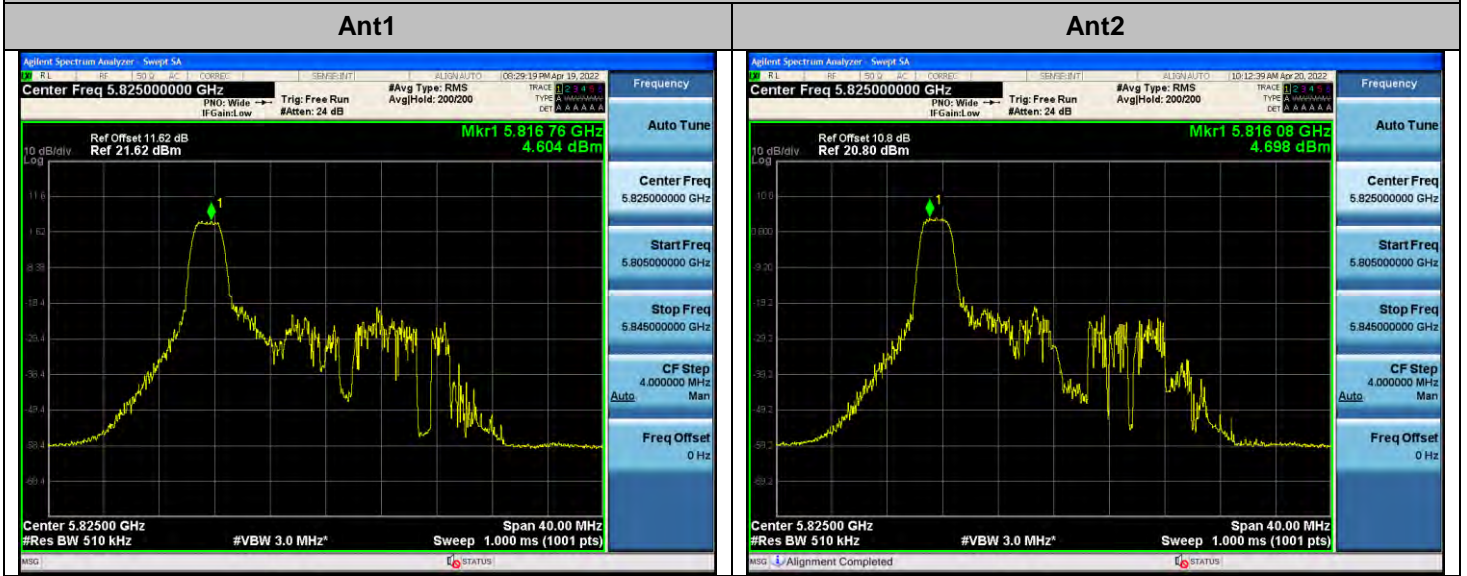


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.925	0.030	10.955

Note:

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

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

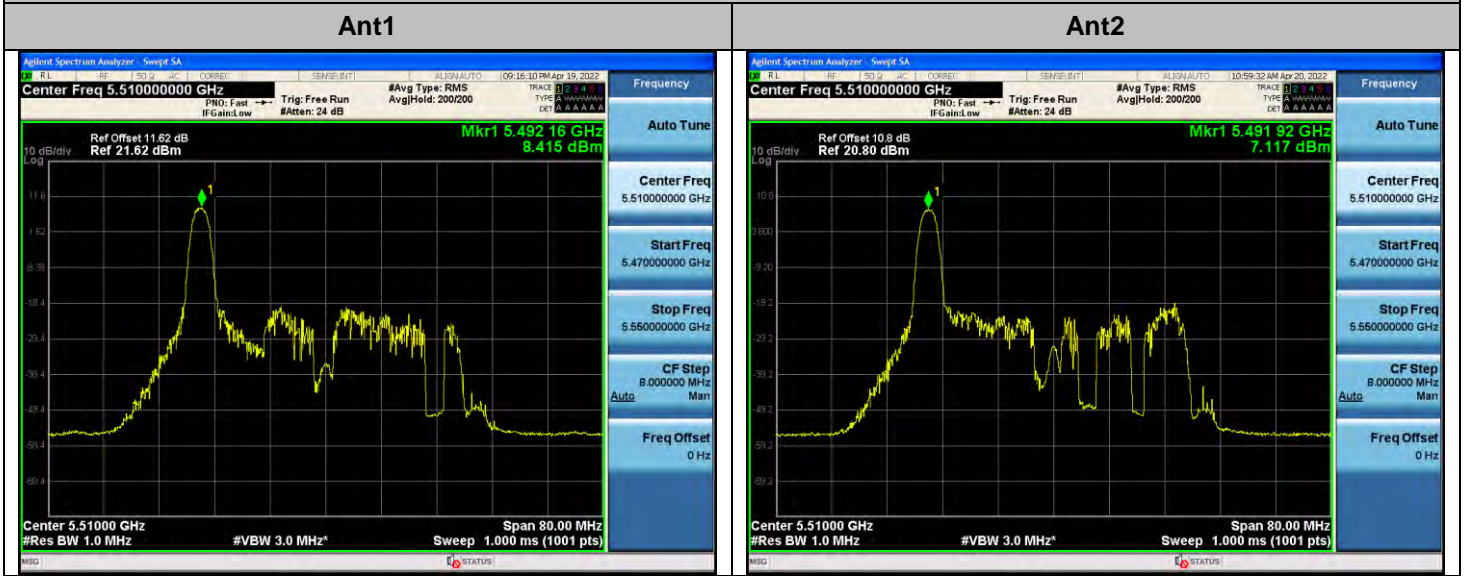


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.662	0.030	7.691

Note:

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

Bandwidth 40M Ch.102 (5510 MHz) 26 Tones RU 0

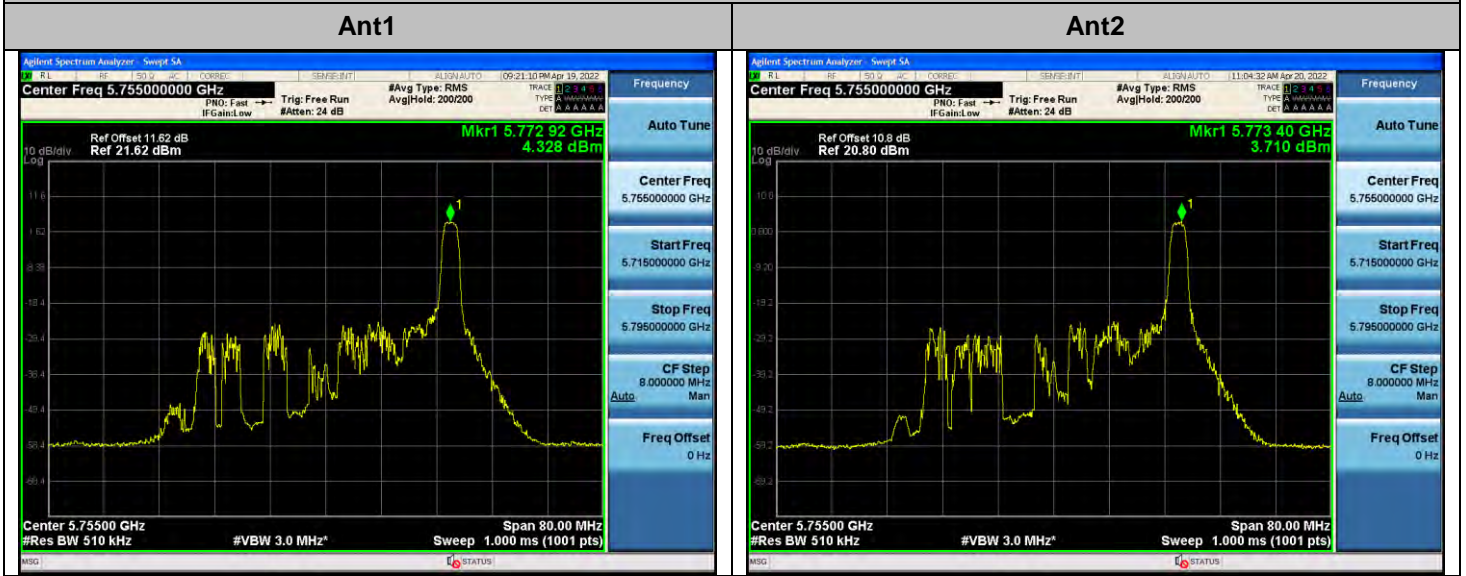


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.825	0.030	10.854

Note:

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

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

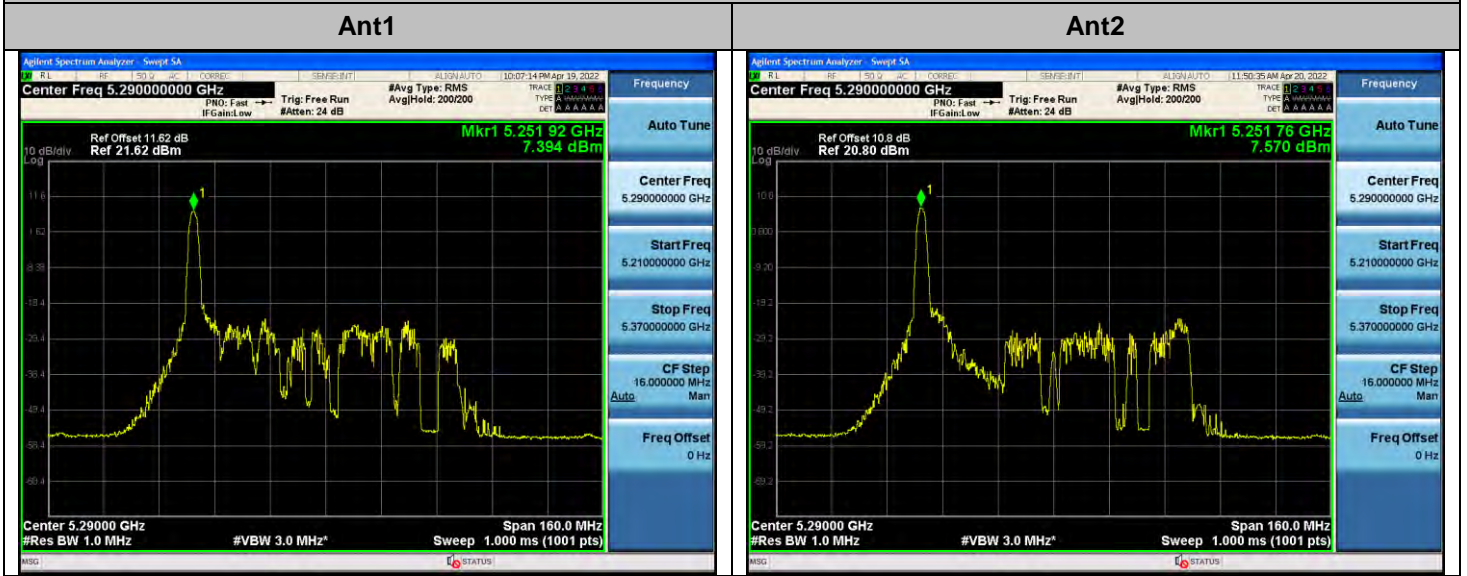


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.040	0.030	7.070

Note:

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

Bandwidth 80M Ch.58 (5290 MHz) 26 Tones RU 0

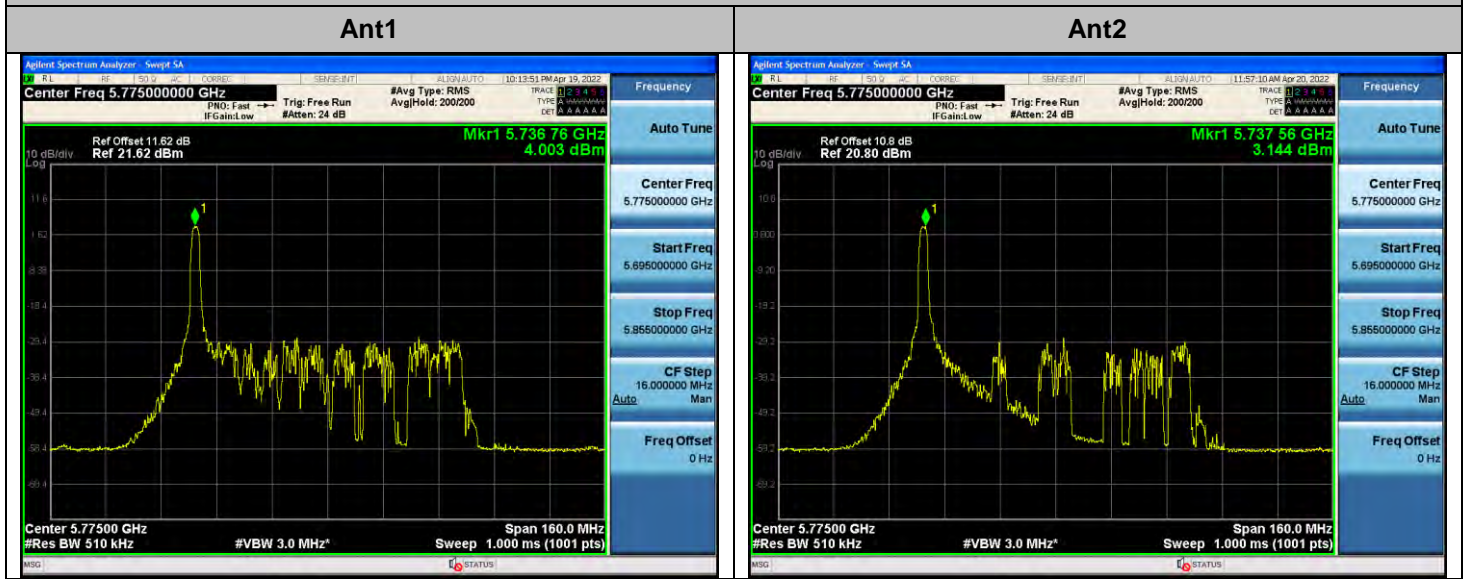


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.493	0.030	10.523

Note:

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

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

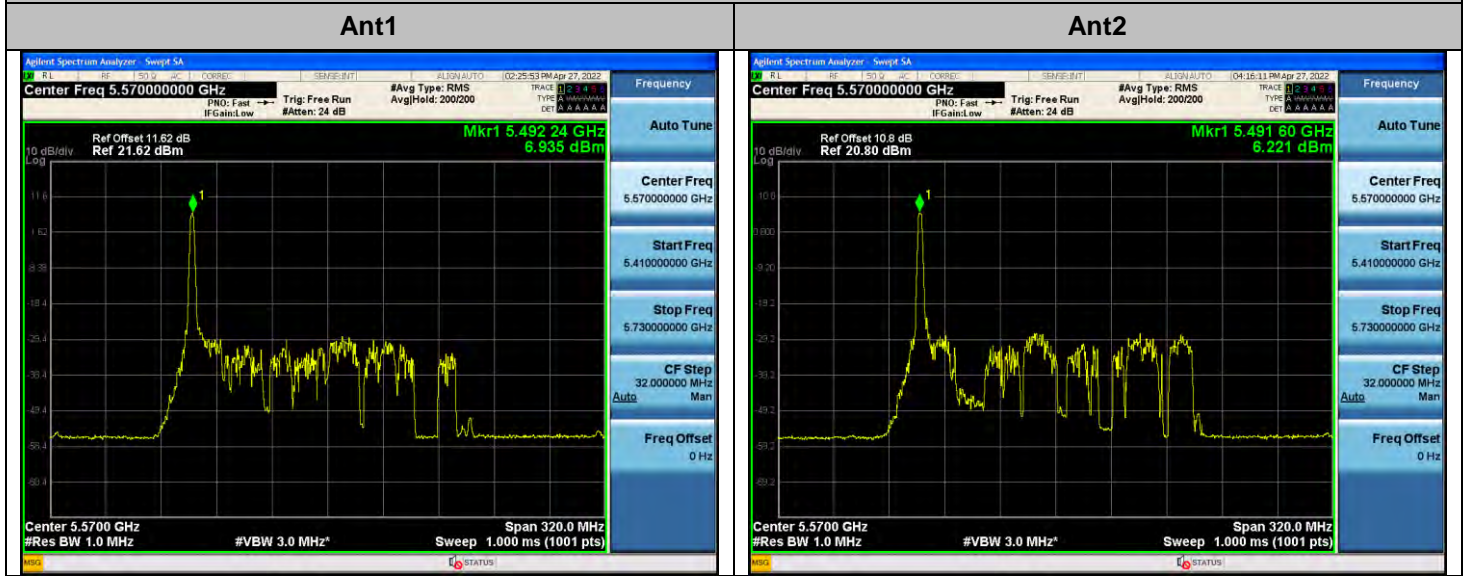


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.605	0.030	6.635

Note:

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

Bandwidth 160M_80L Ch.114 (5570 MHz) 26 Tones RU 0

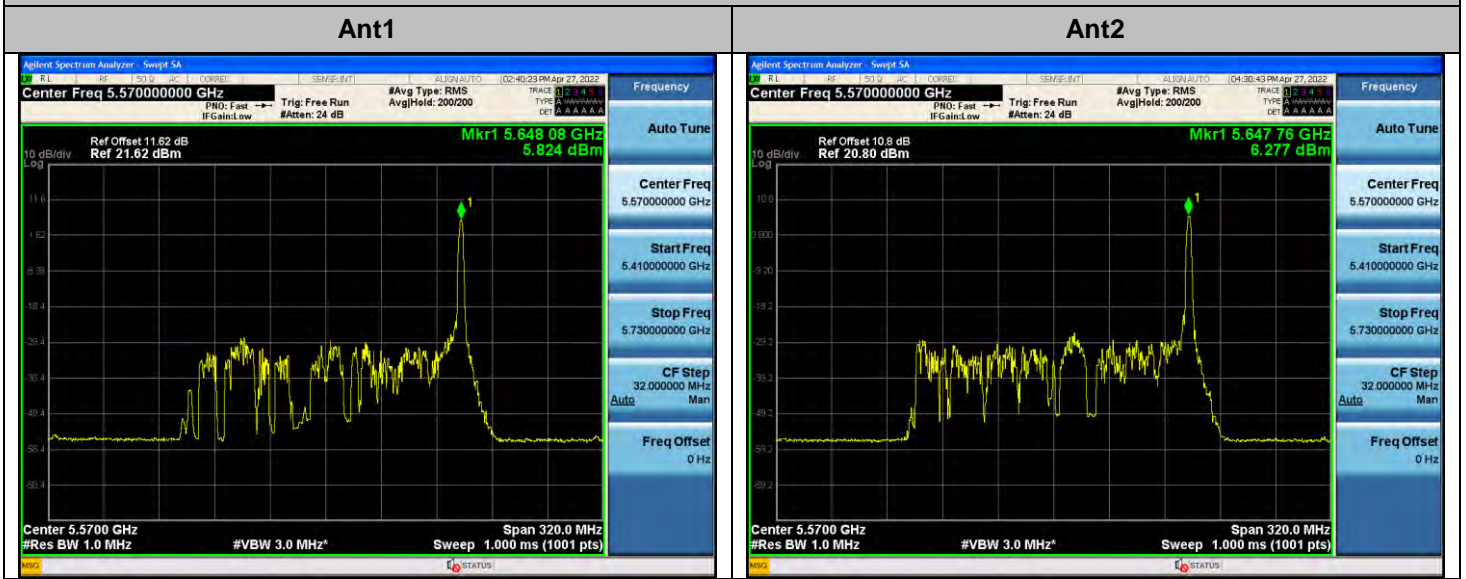


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.603	0.025	9.628

Note:

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

Bandwidth 160M_80U Ch.114 (5570 MHz) 26T RU 36

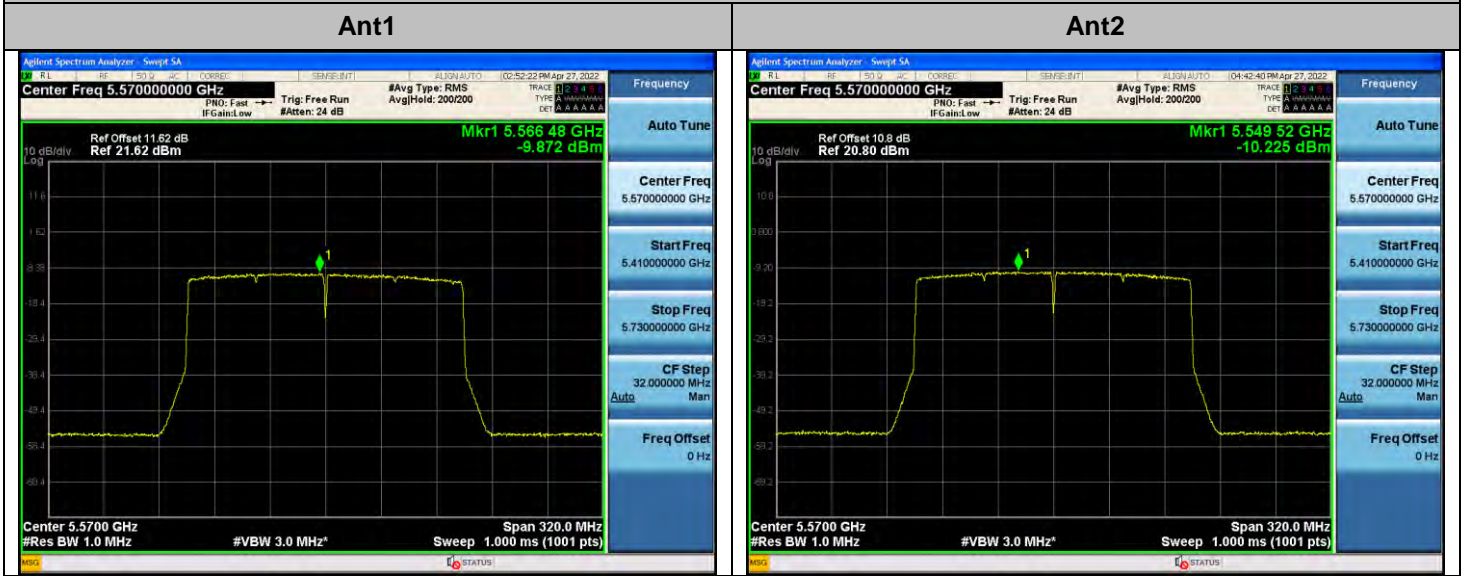


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.067	0.025	9.092

Note:

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

Bandwidth 160M_SU Ch.114 (5570 MHz) SU



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-7.035	0.012	-7.023

Note:

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

5. Straddle Channel

5.1 26 dB Bandwidth

Note:

1. In order to simplify the report, attached plots were only the most wide channel. (UNII1~3)

5.1.1 MIMO Ant1

(26 dB) Bandwidth 20M Ch.144(5720 MHz) 106 Tones RU 53

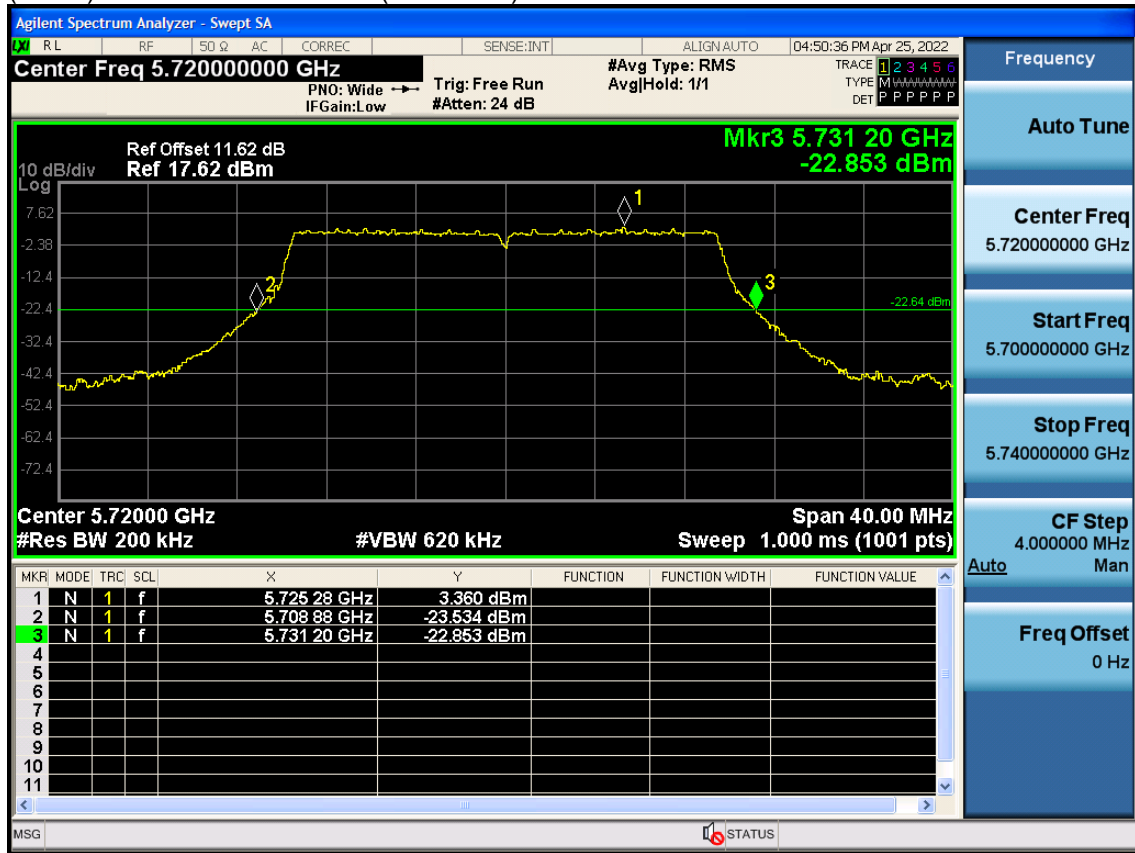


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5708.68	16.32

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26 dB) Bandwidth 20M Ch.144(5720 MHz) 242 Tones RU 61

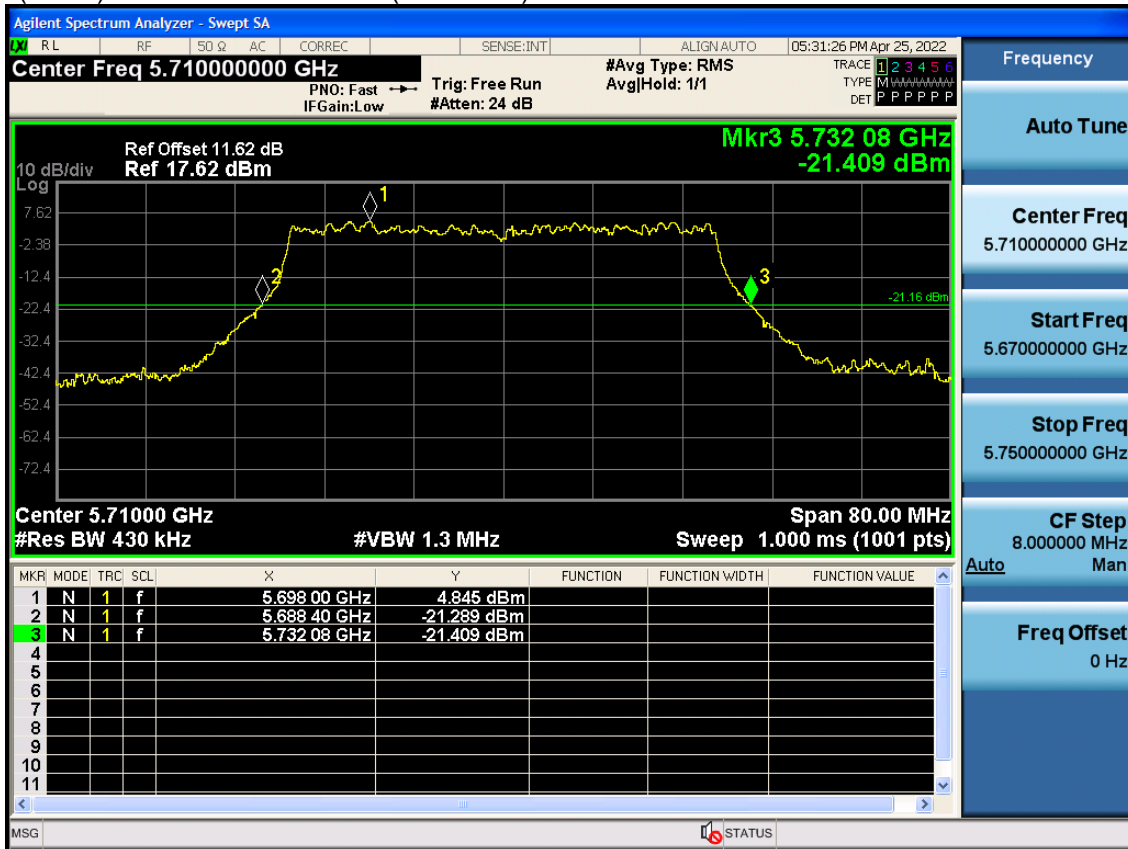


UNII 3	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5731.2	5725	6.20

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26 dB) Bandwidth 40M Ch.142(5710 MHz) 484 Tones RU 65

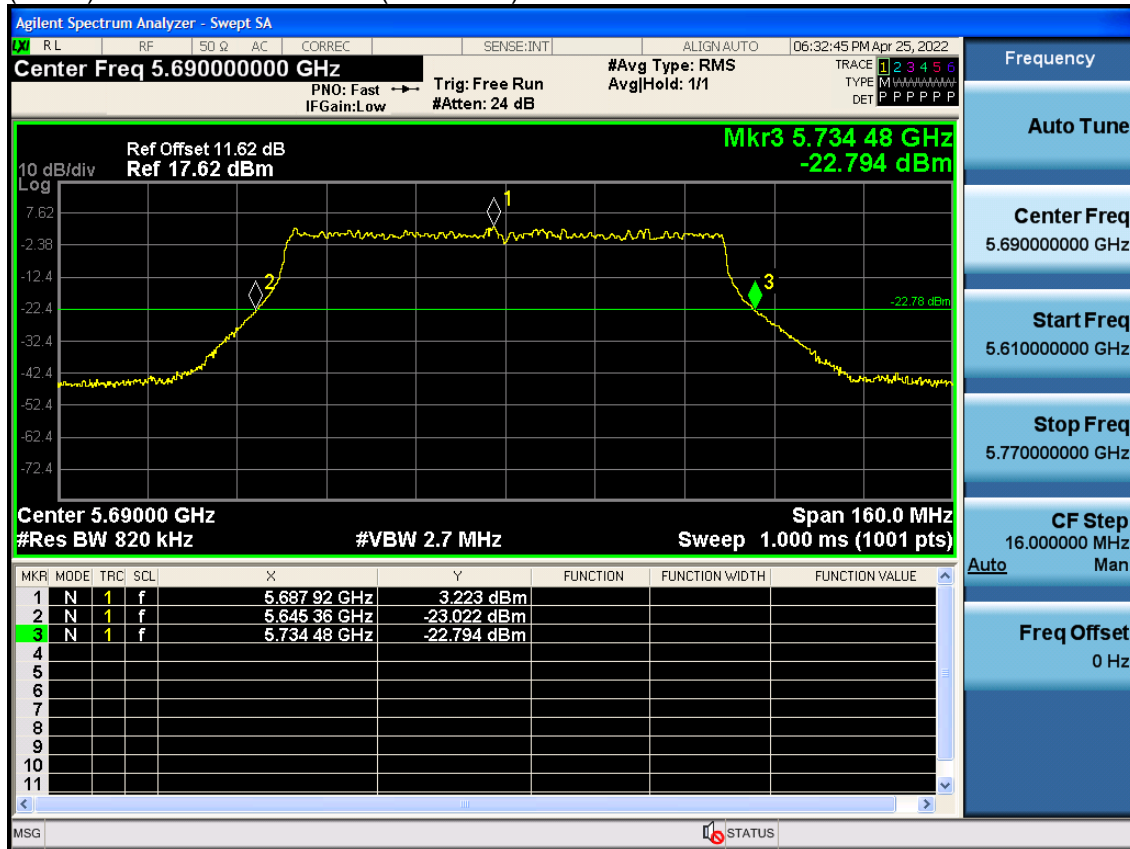


	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
UNII 2C	5725	5688.4	36.60
	5732.08	5725	7.08

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26 dB) Bandwidth 80M Ch.138(5690 MHz) SU



	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
UNII 2C	5725	5645.36	79.64
	5734.48	5725	9.48

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] - 5725 MHz

5.1.2 MIMO Ant2

(26 dB) Bandwidth 20M Ch.144(5720 MHz) 106 Tones RU 53



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5708.76	16.24

Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]

(26 dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 8

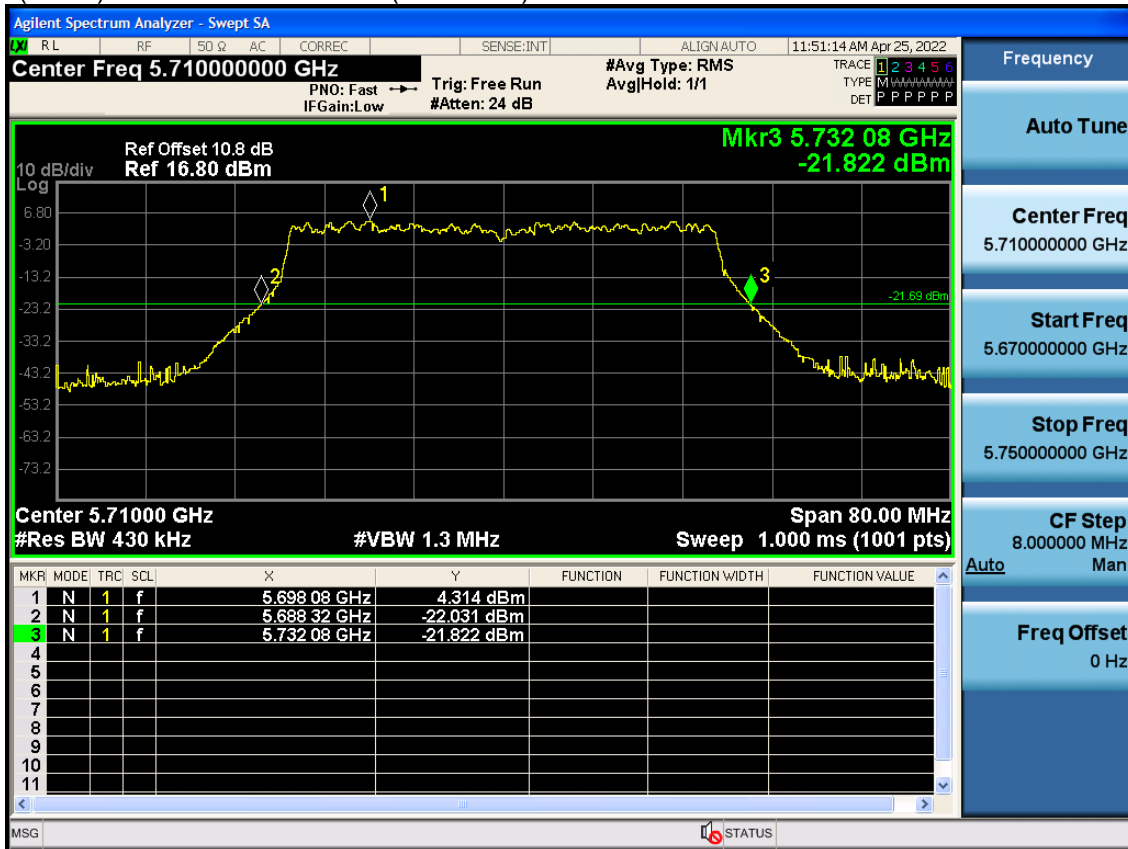


UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5731.36	5725	6.36

Note:

1. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26 dB) Bandwidth 40M Ch.142(5710 MHz) SU

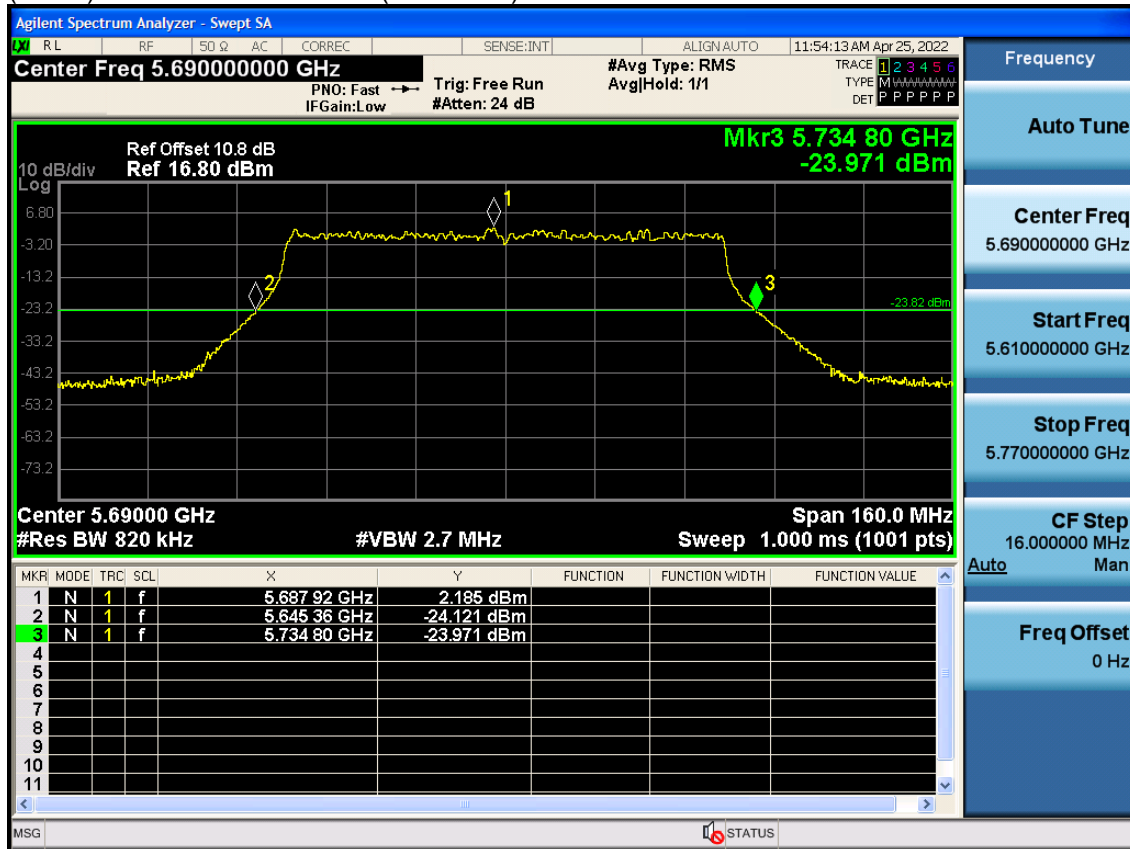


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5688.32	36.68
UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732.08	5725	7.08

Note:

1. [UNII 2C] 26dB Bandwidth = 5725 MHz - Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

(26 dB) Bandwidth 80M Ch.138(5690 MHz) SU



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5645.36	79.64
UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5734.8	5725	9.80

Note:

1. [UNII 2C] 26dB Bandwidth = 5725 MHz - Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz

5.2 6 dB Bandwidth

Note:

1. In order to simplify the report, attached plots were only the most narrow channel. (UNII1~4)

5.2.1 MIMO Ant1

(6 dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7



Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6 dB) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

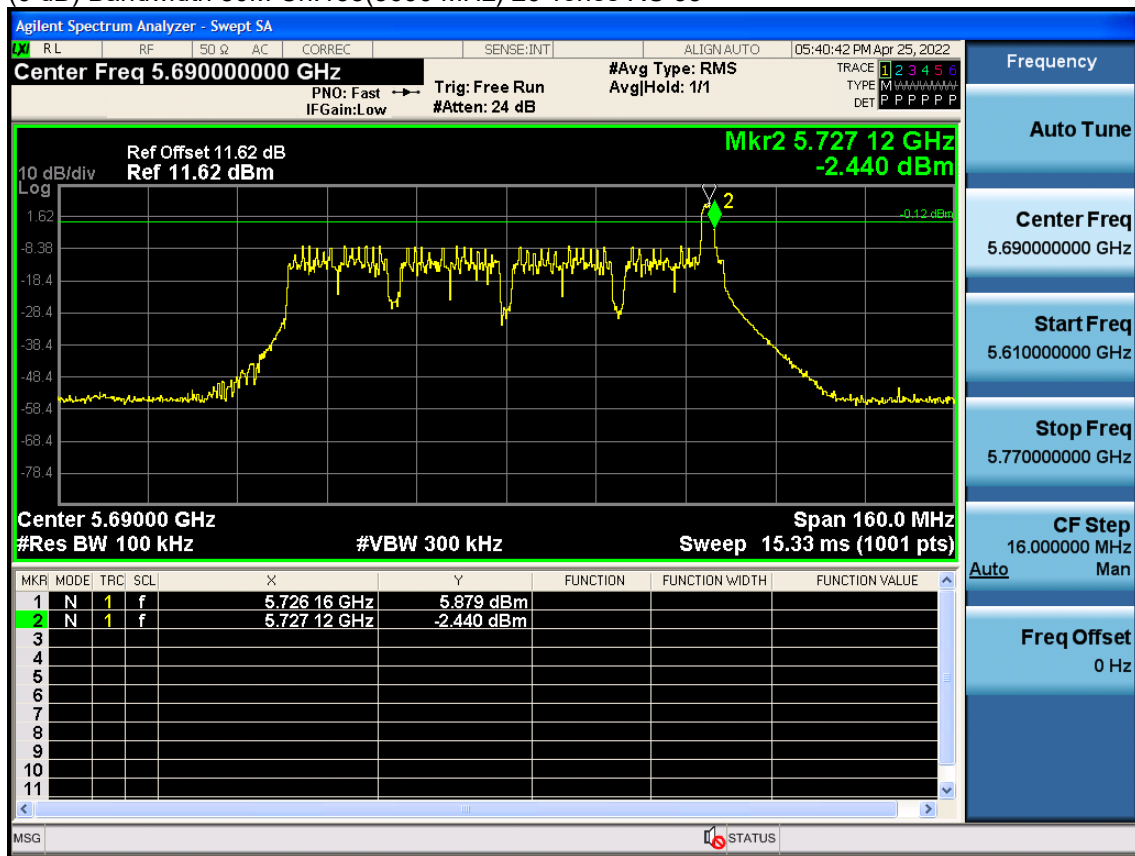


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6 dB) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



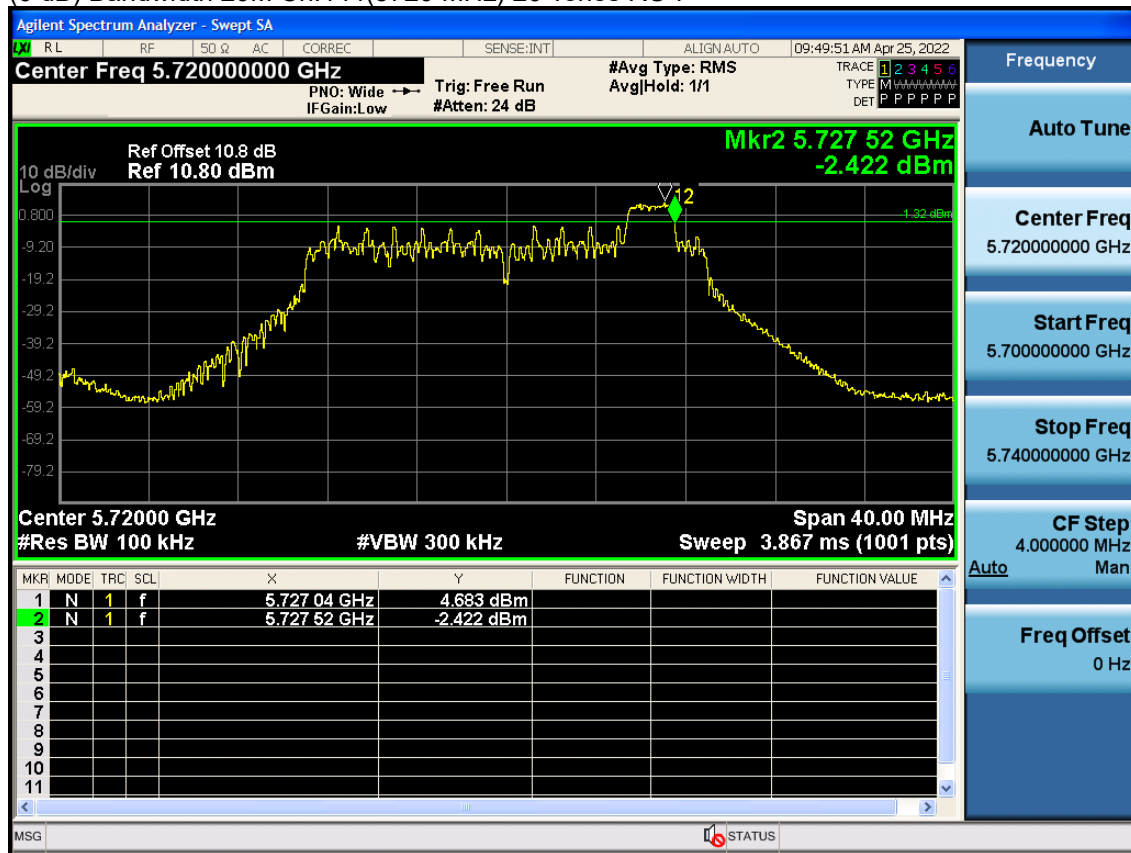
Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

5.2.2 MIMO Ant2

(6 dB) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7

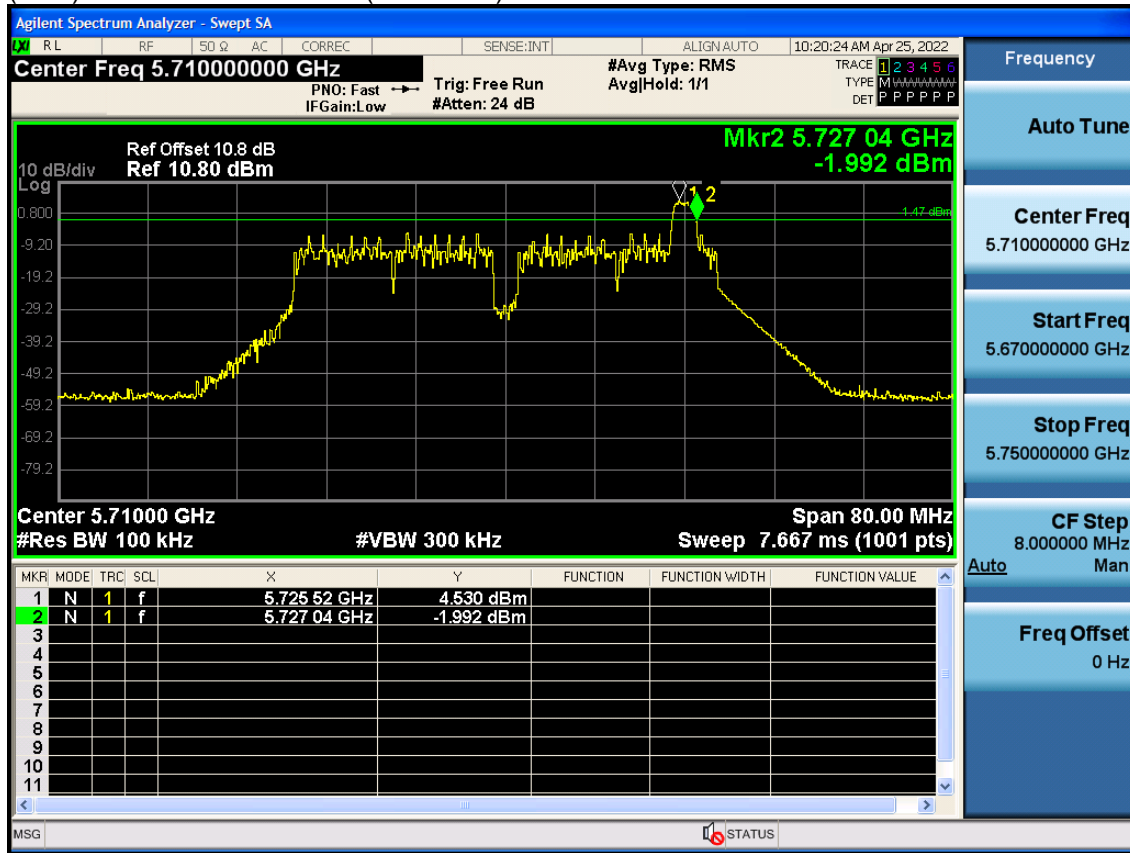


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6 dB) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

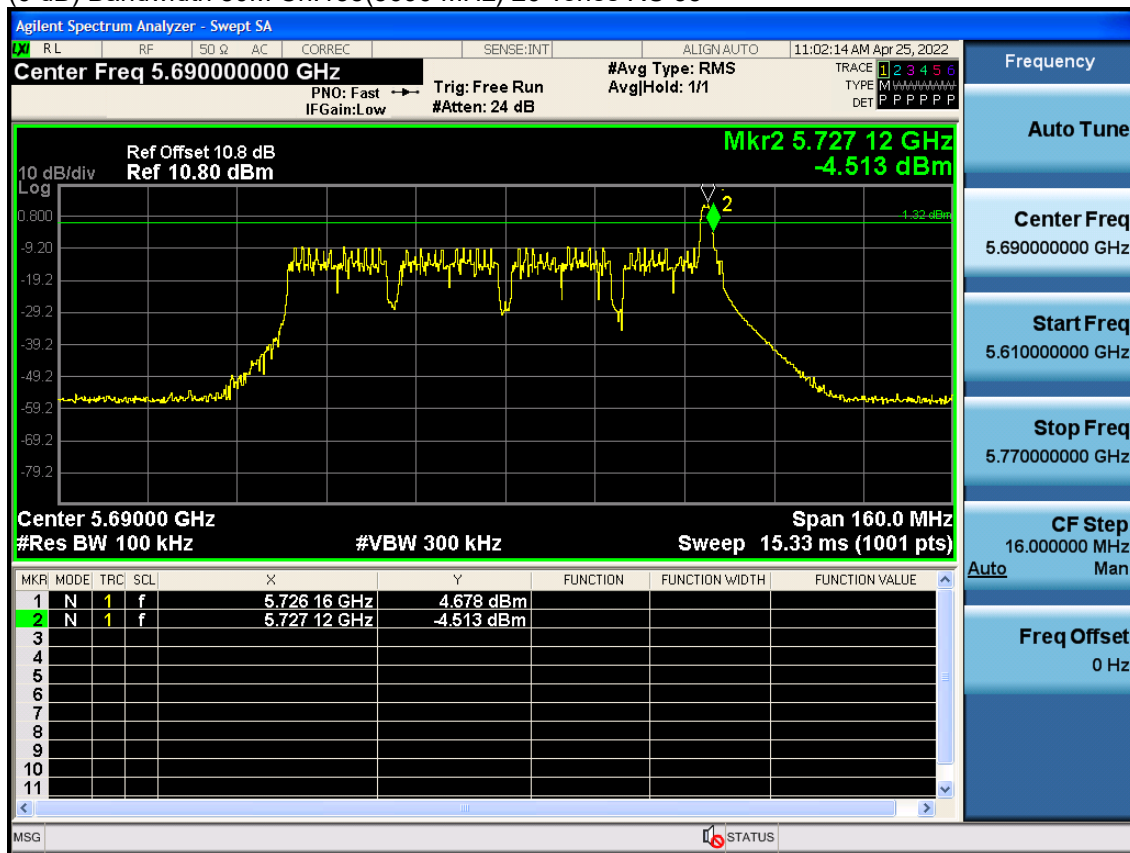


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

(6 dB) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

Note:

6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz

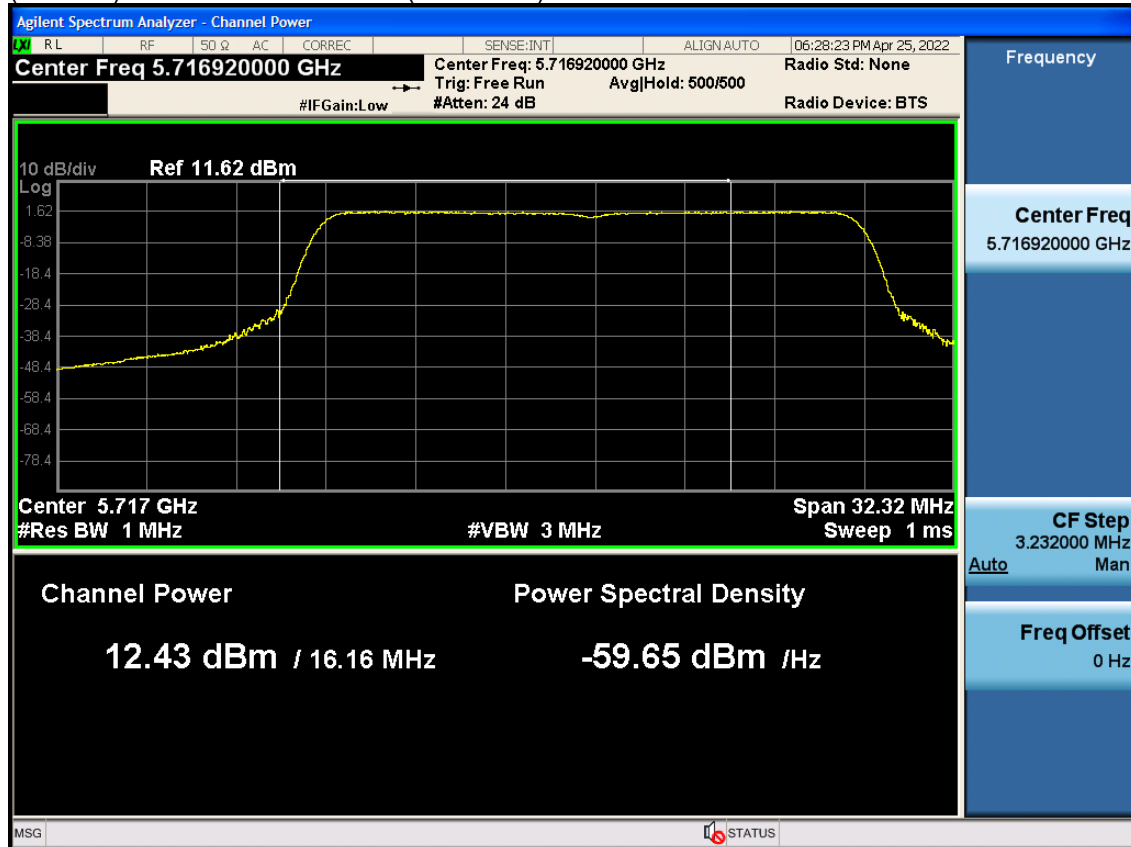
5.3 Output Power

Note:

1. In order to simplify the report, attached plots were only channel of highest Power. (UNII1~4)

5.3.1 MIMO Ant1

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) SU



Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
12.43	0.016	12.45

Note:

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

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 52 Tones RU 40

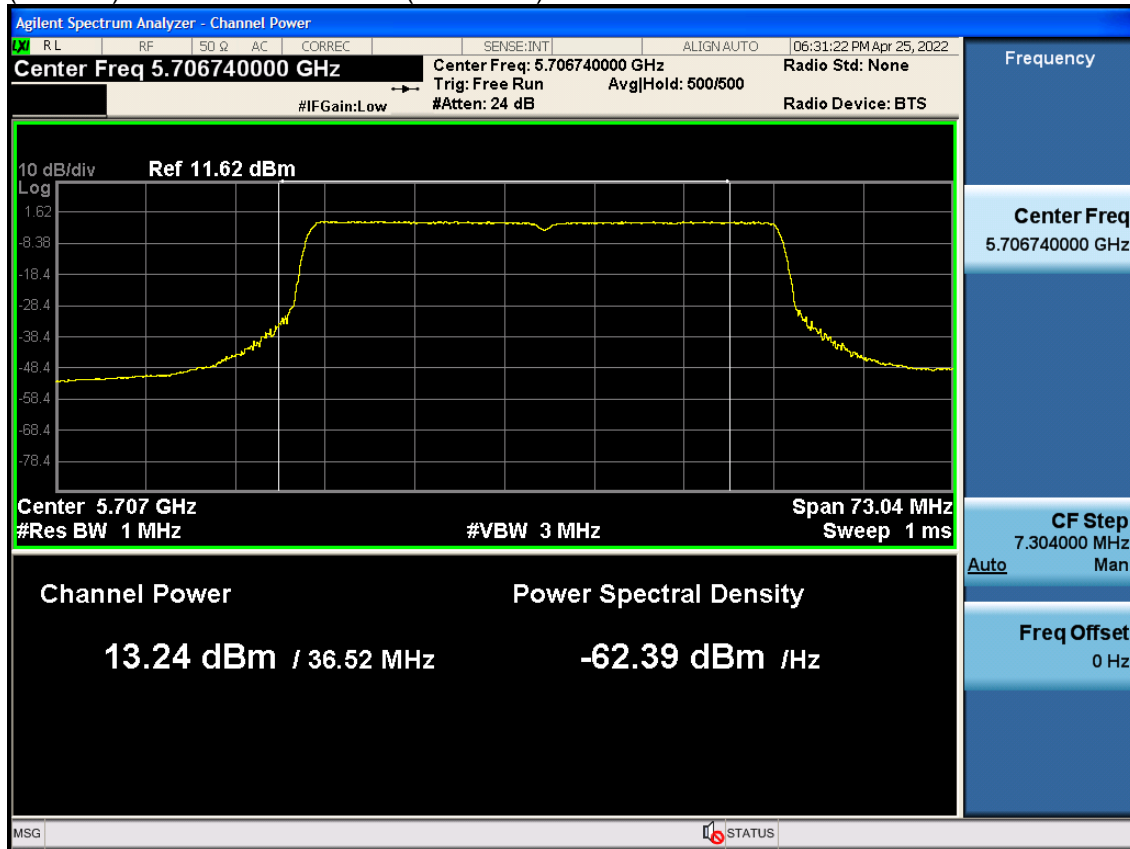


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.58	0.030	10.61

Note:

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

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) SU

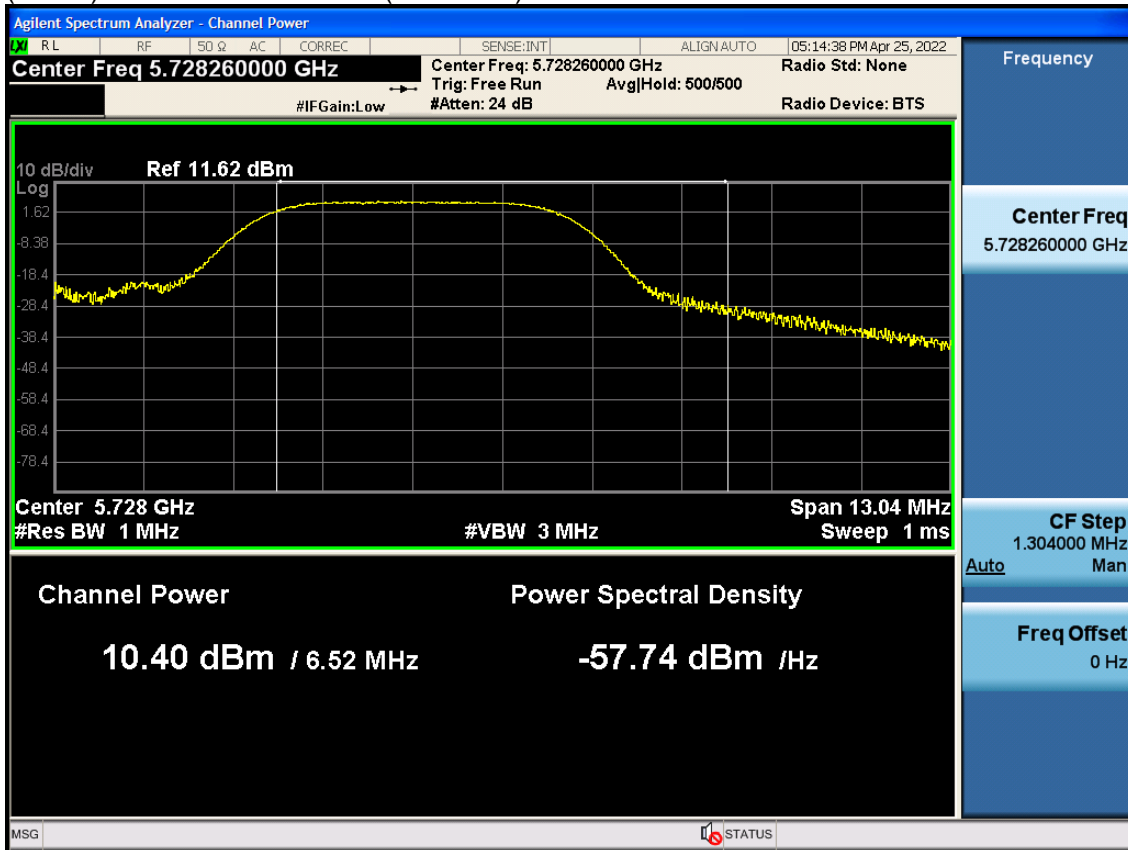


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.24	0.012	13.25

Note:

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

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 52 Tones RU 44

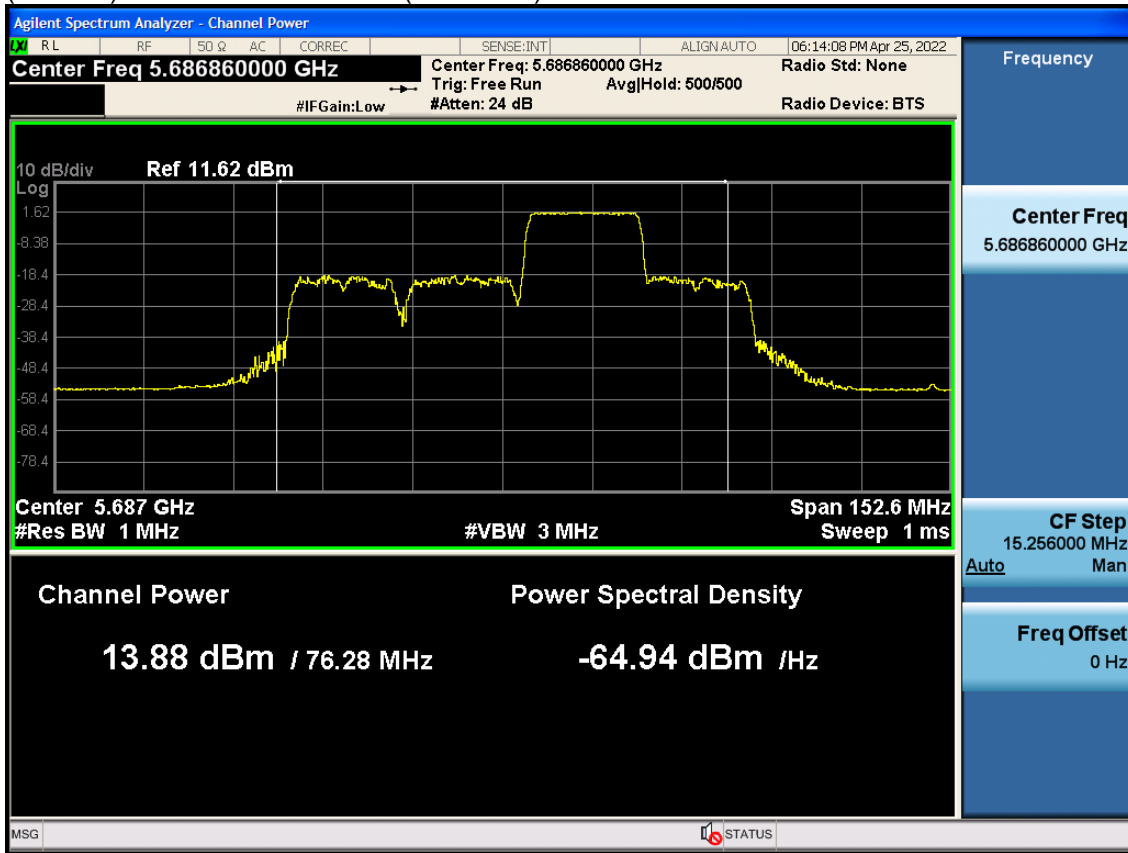


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.40	0.030	10.43

Note:

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

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 242 Tones RU 63

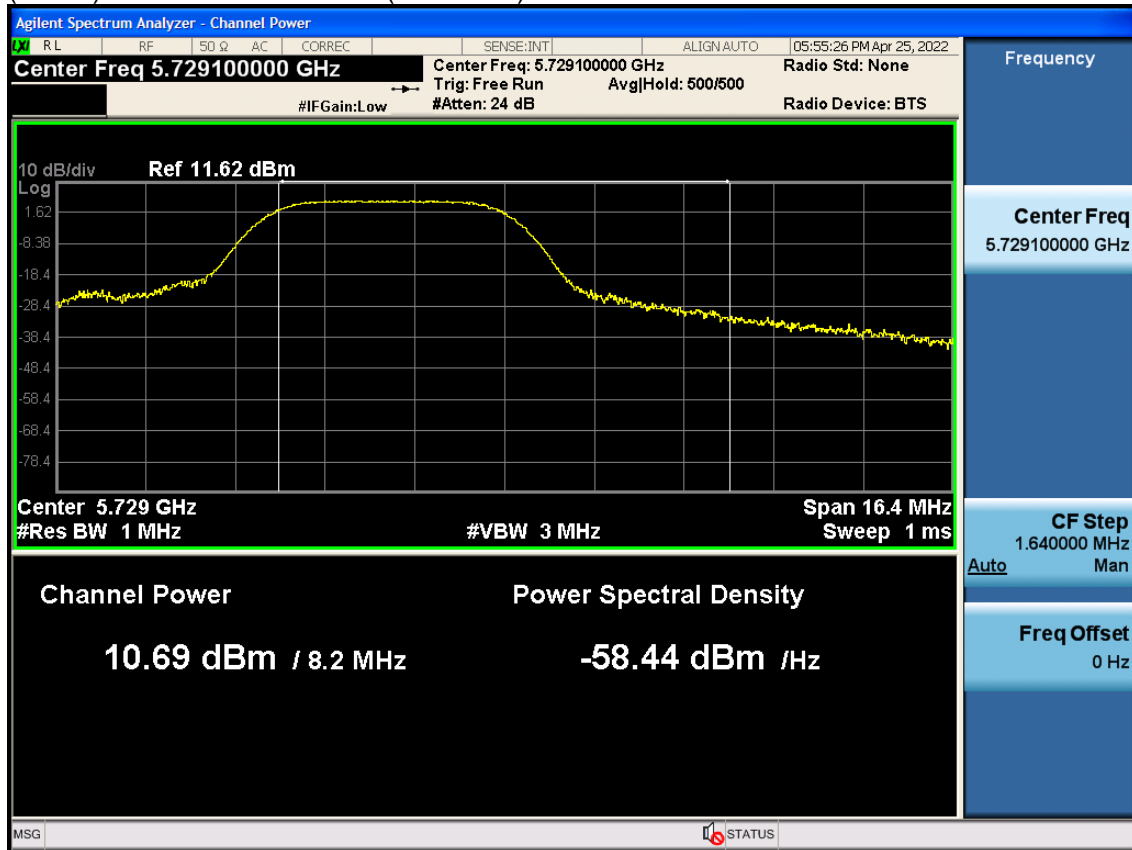


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.88	0.097	13.98

Note:

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

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 52



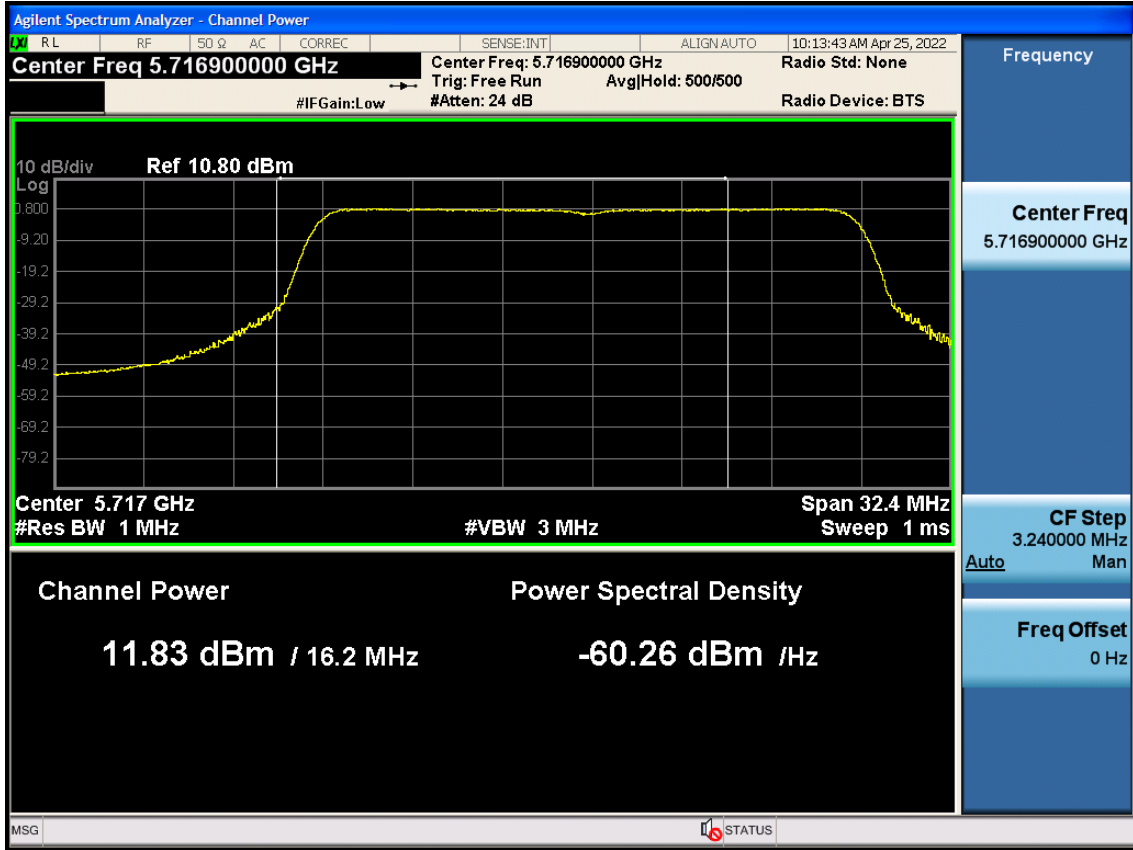
Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.69	0.025	10.72

Note:

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

5.3.2 MIMO Ant2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 242 Tones RU 61

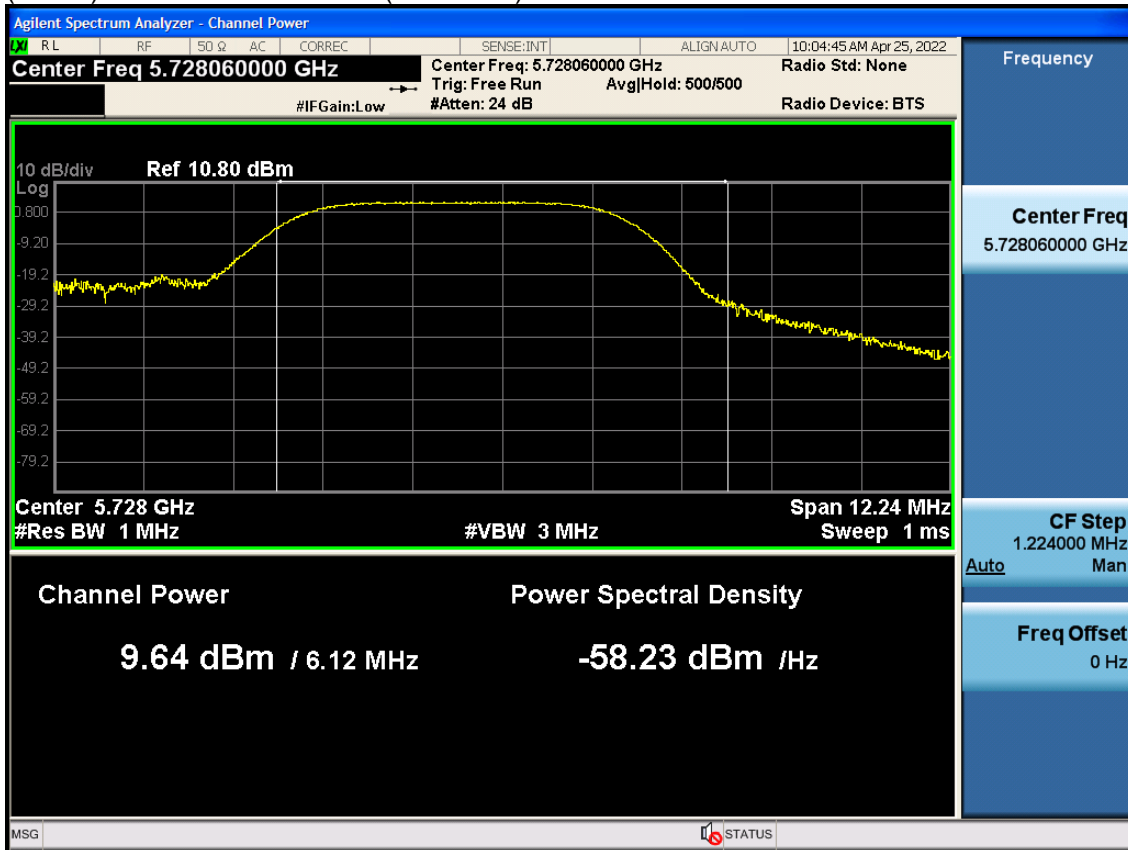


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.83	0.112	11.94

Note:

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

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 52 Tones RU 40

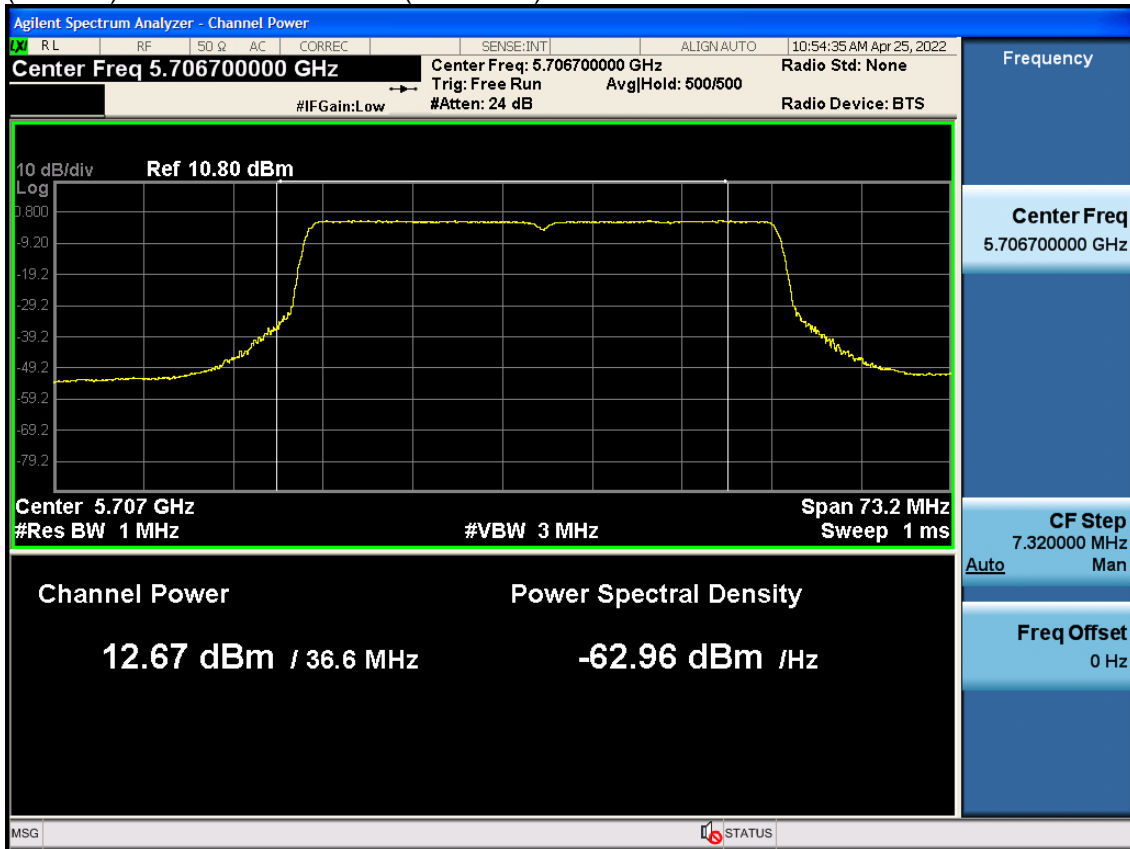


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
9.64	0.030	9.67

Note:

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

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 484 Tones RU 65

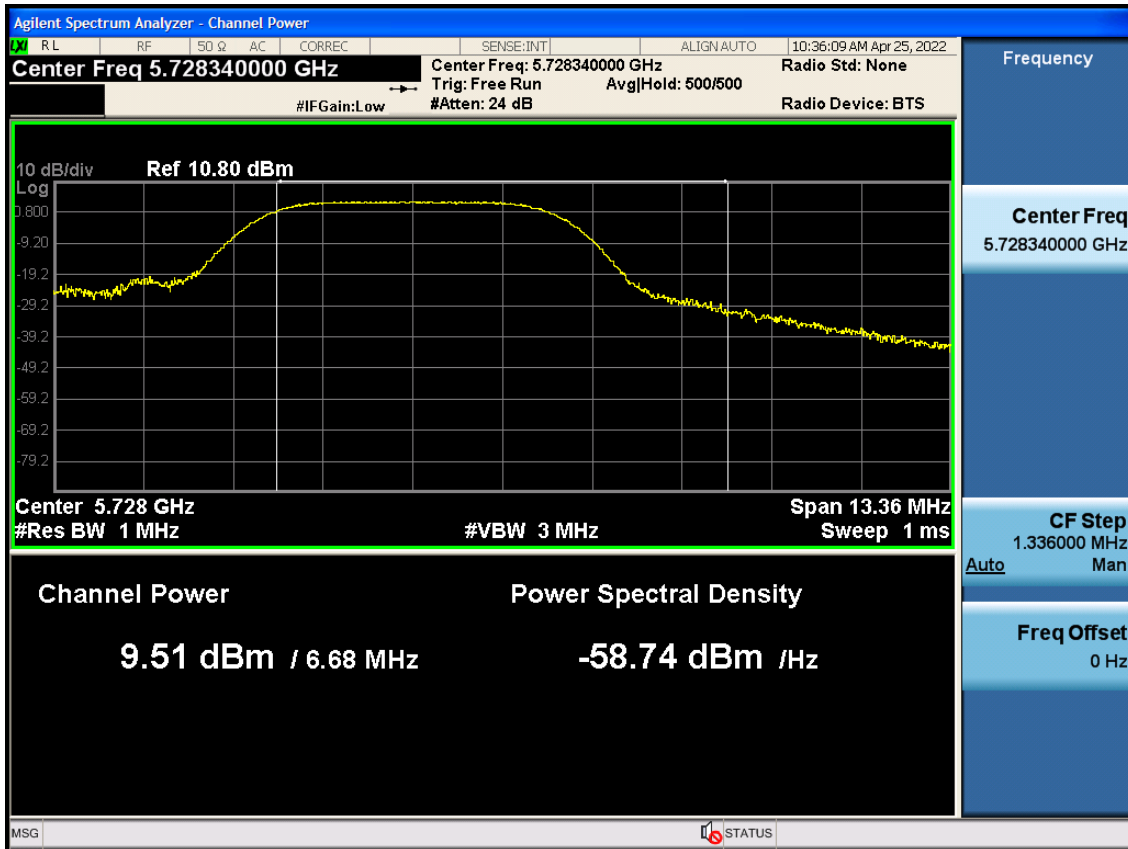


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
12.67	0.168	12.84

Note:

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

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 52 Tones RU 44

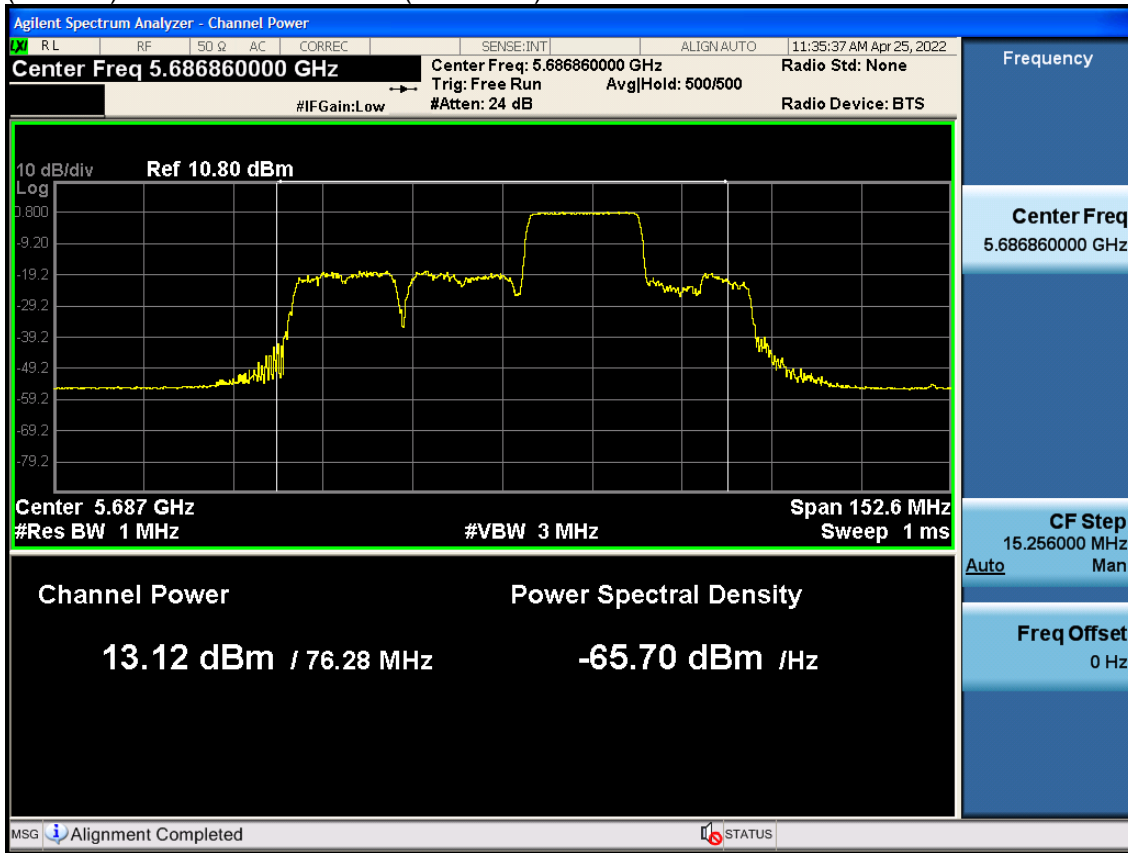


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
9.51	0.030	9.54

Note:

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

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 242 Tones RU 63

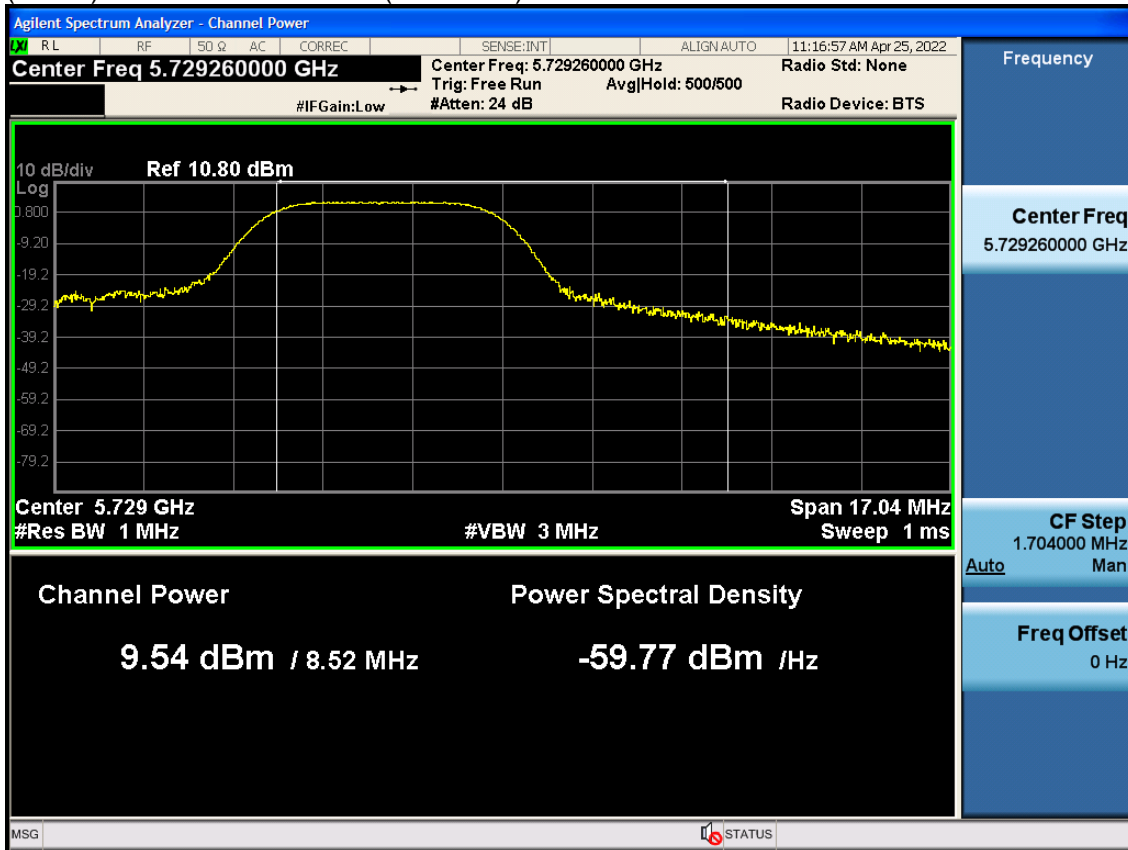


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.12	0.097	13.22

Note:

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

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 52



Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
9.54	0.025	9.57

Note:

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

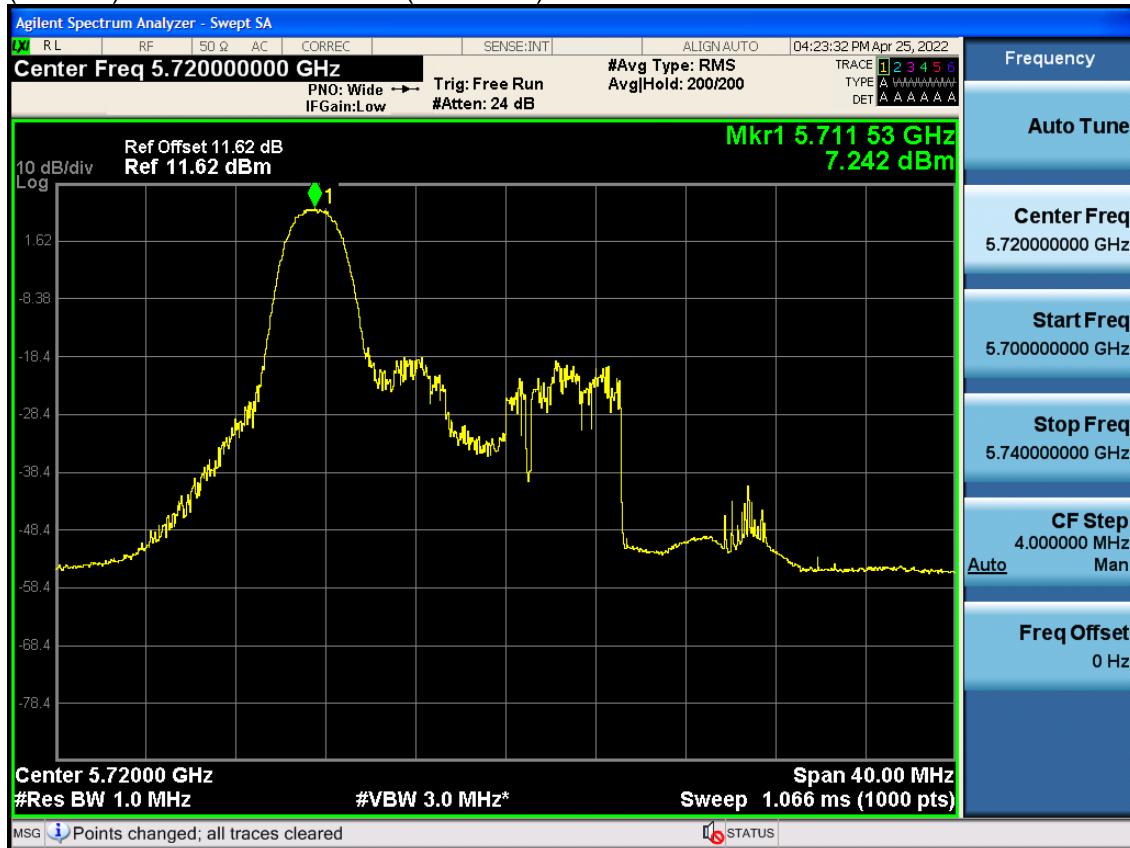
5.4 Power Spectral Density

Note:

1. In order to simplify the report, attached plots were only channel of highest PSD. (UNII1~4)

5.4.1 MIMO Ant1

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 0

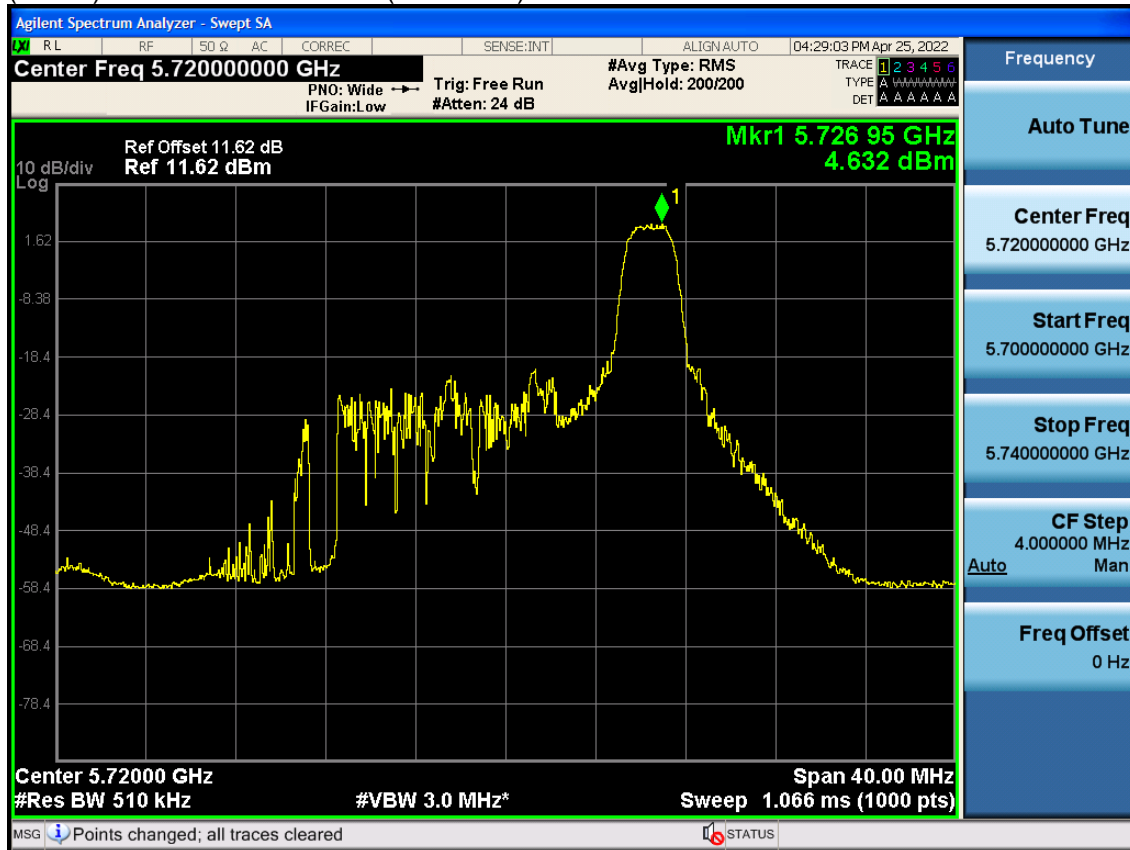


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.242	0.030	7.272

Note:

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

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 7



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.632	0.030	4.662

Note:

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

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 9

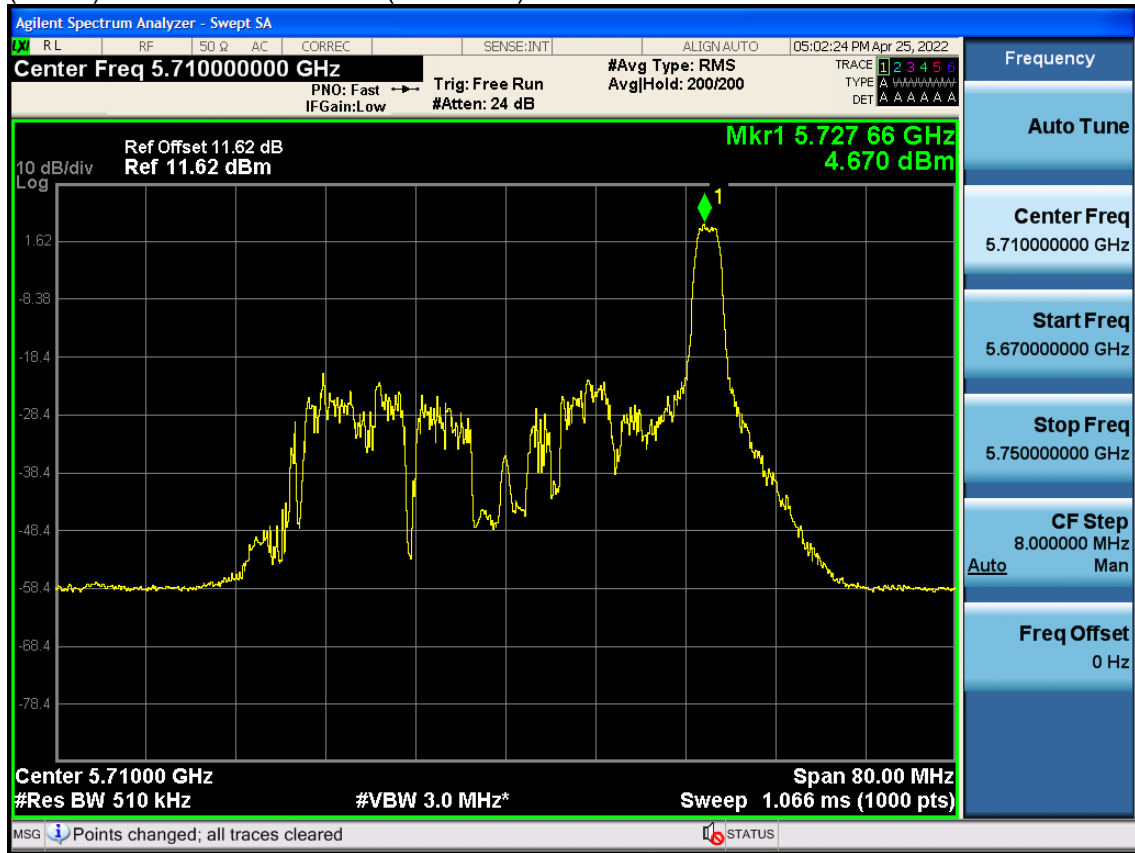


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.898	0.030	6.928

Note:

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

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 17

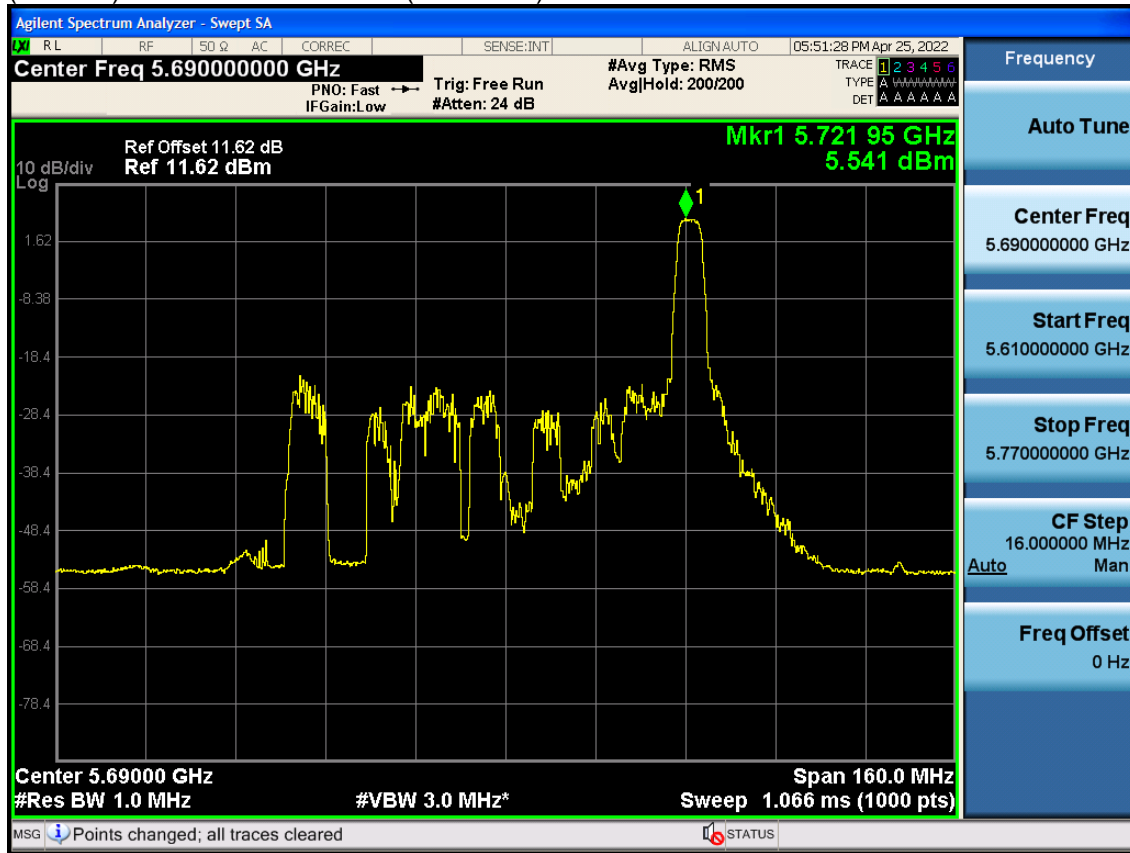


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.670	0.030	4.700

Note:

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

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 51

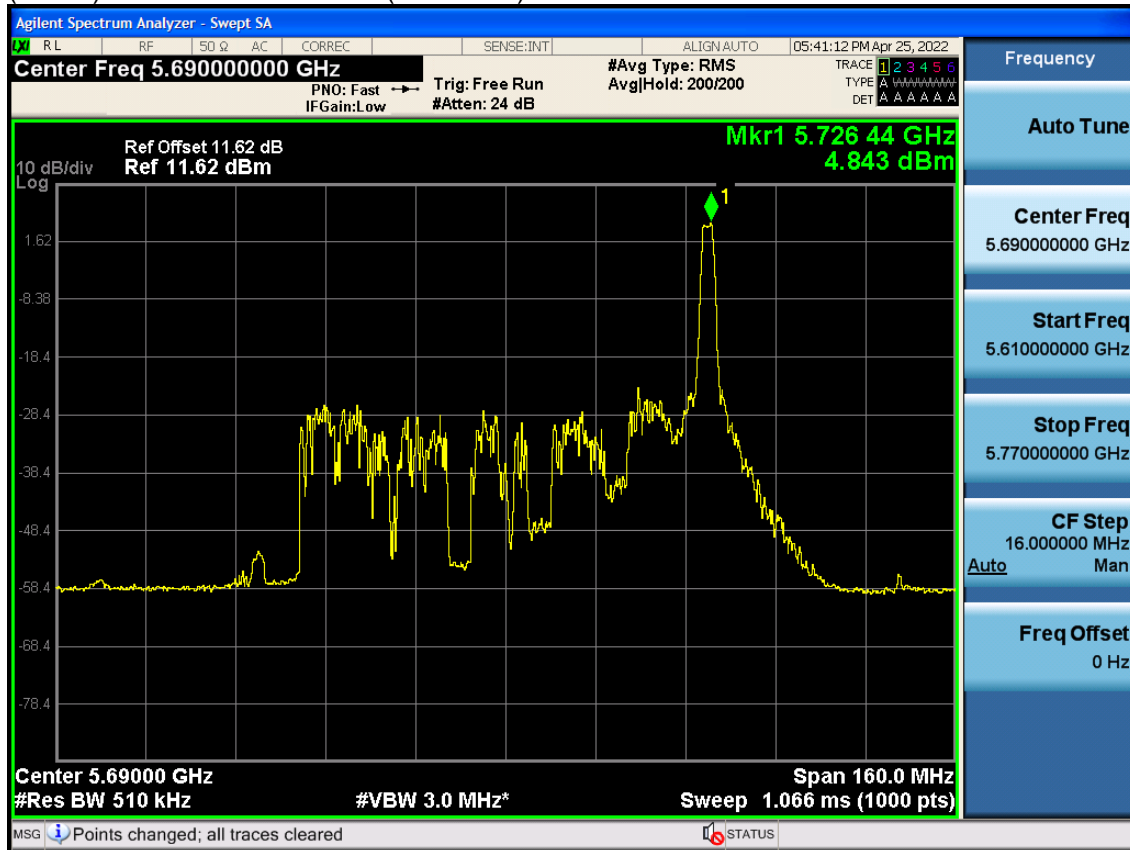


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.541	0.025	5.566

Note:

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

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.843	0.030	4.873

Note:

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

5.4.2 MIMO Ant2

(UNII 2C) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 0



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.592	0.030	6.622

Note:

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

(UNII 3) Bandwidth 20M Ch.144(5720 MHz) 26 Tones RU 8

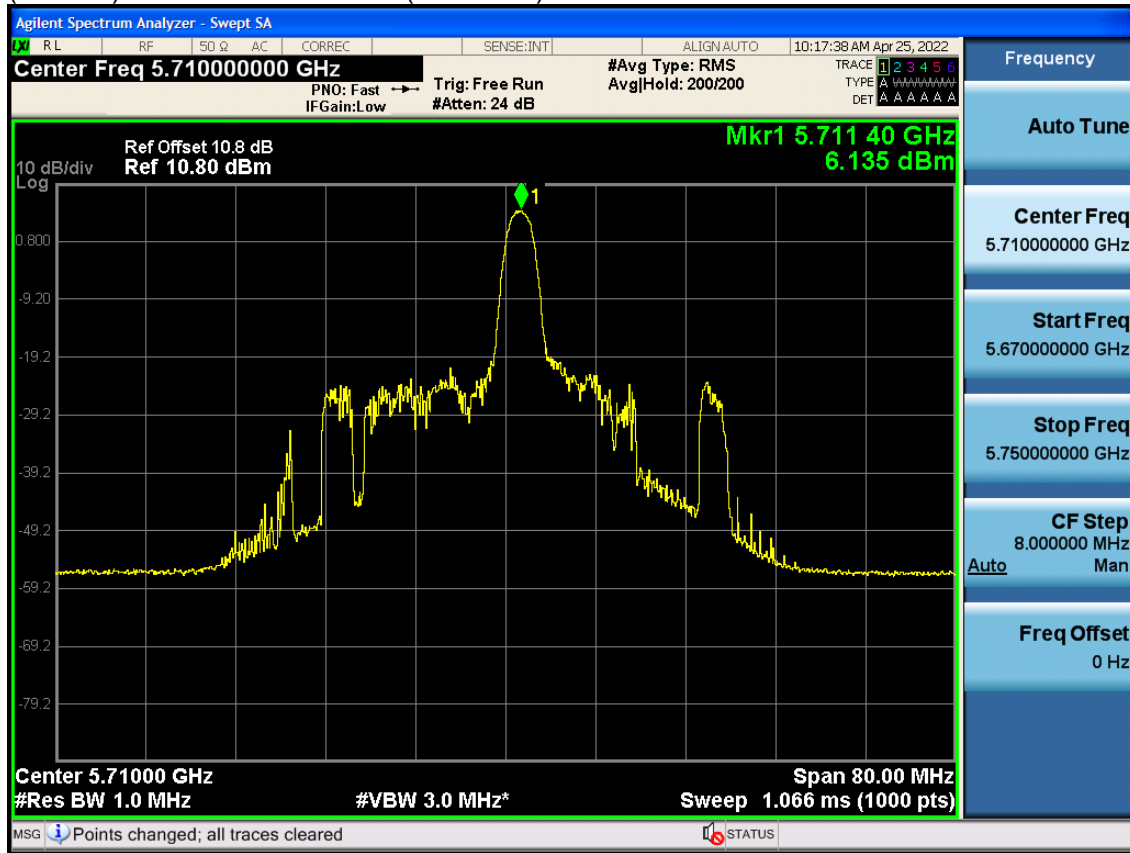


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.072	0.030	4.101

Note:

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

(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 9



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.135	0.030	6.165

Note:

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

(UNII 3) Bandwidth 40M Ch.142(5710 MHz) 26 Tones RU 16

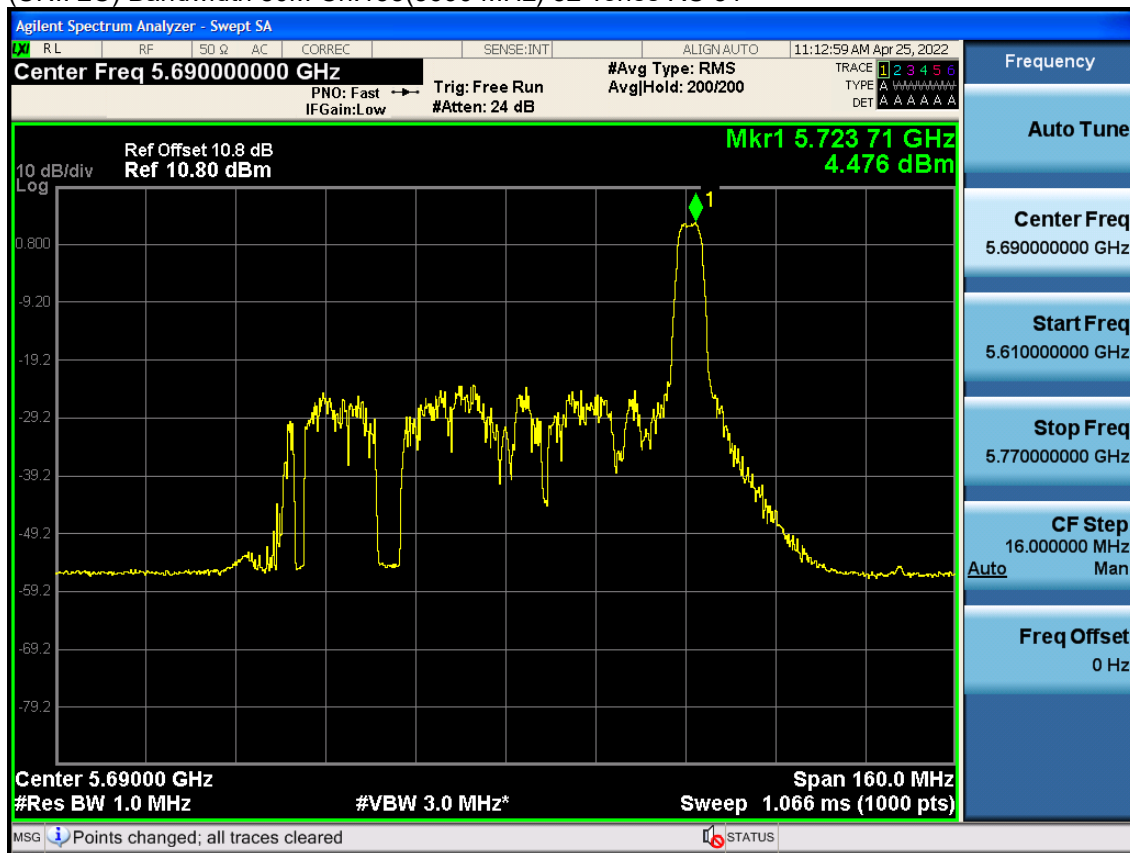


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.822	0.030	3.852

Note:

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

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) 52 Tones RU 51



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.476	0.025	4.501

Note:

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

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) 26 Tones RU 35



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.450	0.030	3.480

Note:

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