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Appendix B:
802.11ax
Test Plot

FCC ID
A3LSMG736U

REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	May 16, 2022	Initial Release

Note:

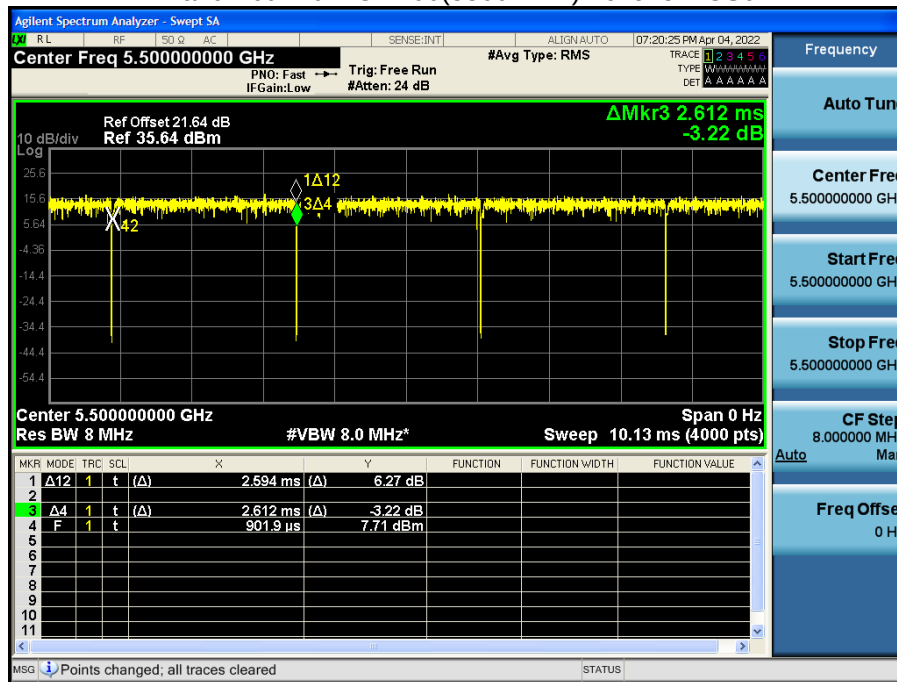
In order to simplify the report, attached plots were only the most lowest data rate.

1. Duty Cycle

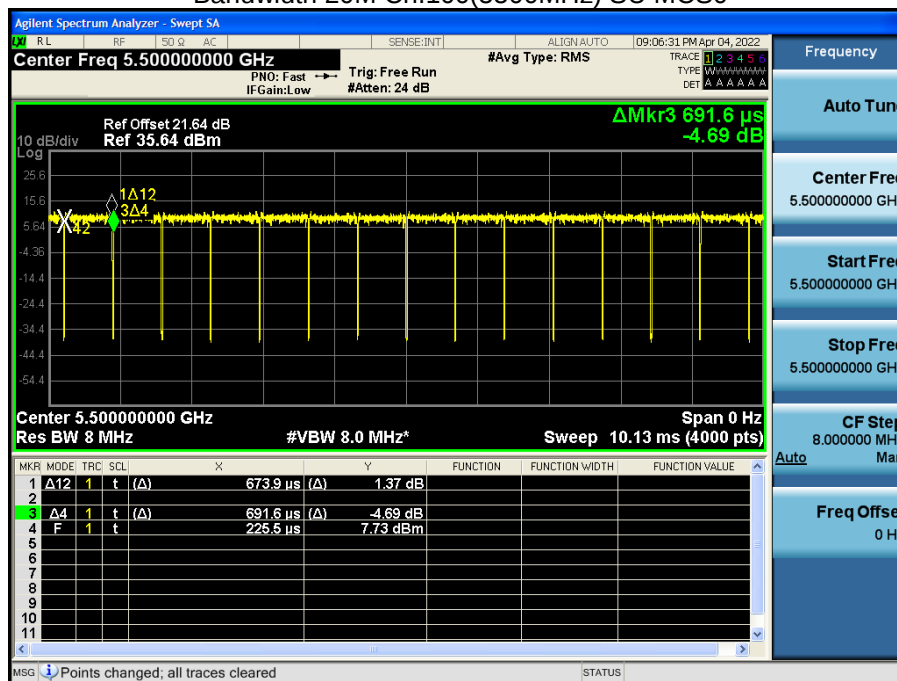
Note:

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.

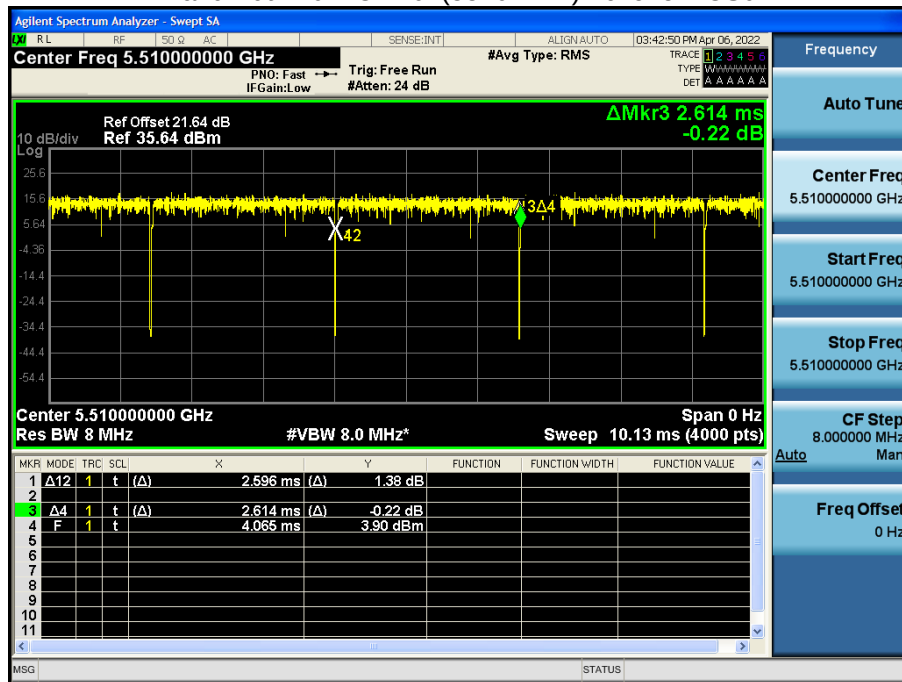
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



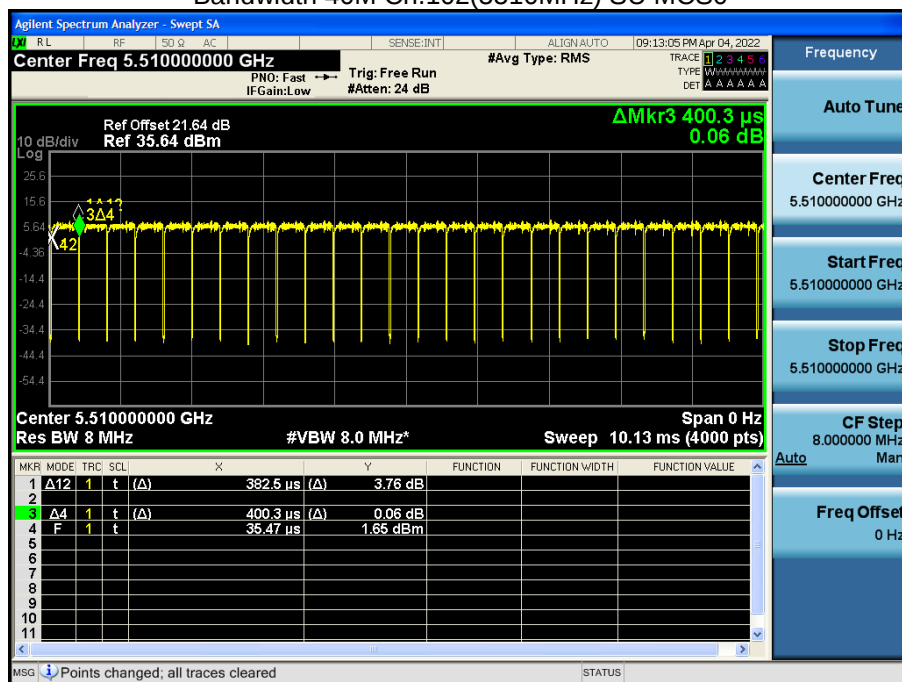
Bandwidth 20M Ch.100(5500MHz) SU MCS0



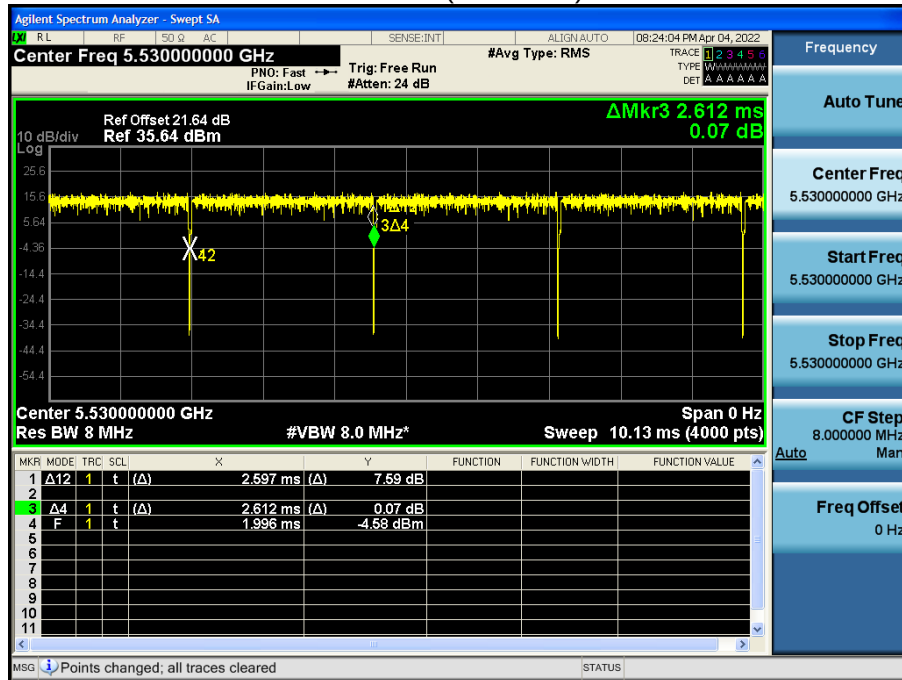
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



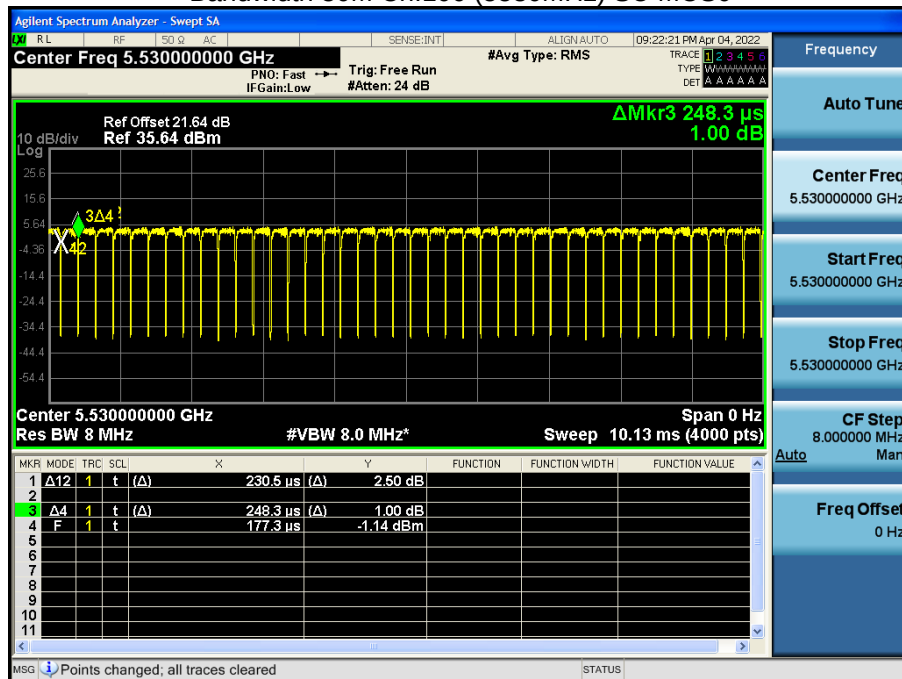
Bandwidth 40M Ch.102(5510MHz) SU MCS0



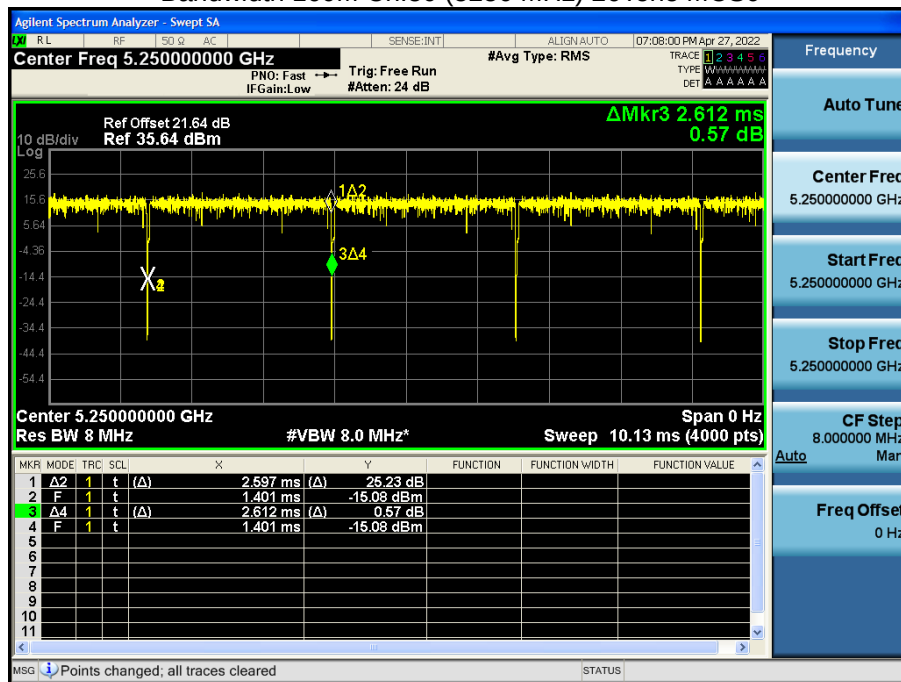
Bandwidth 80M Ch.106 (5530 MHz) 26Tone MCS0



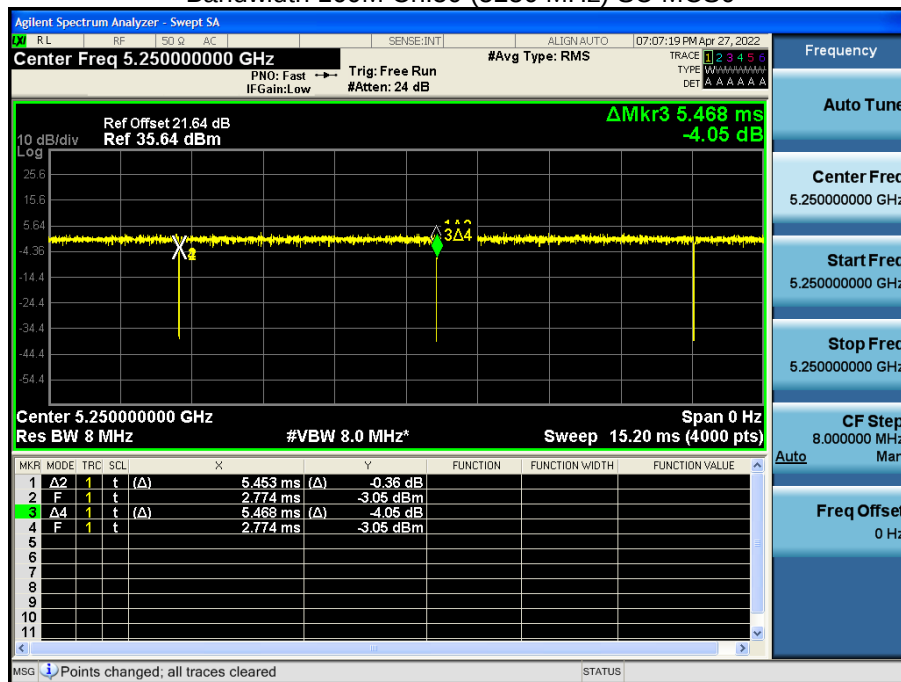
Bandwidth 80M Ch.106 (5530MHz) SU MCS0



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



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

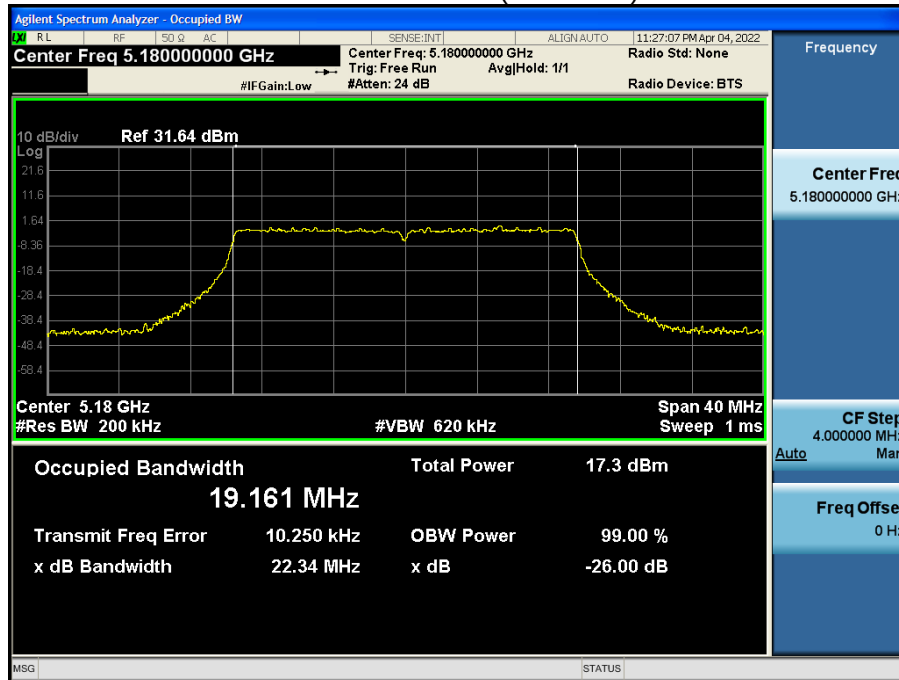


2. 26dB Bandwidth

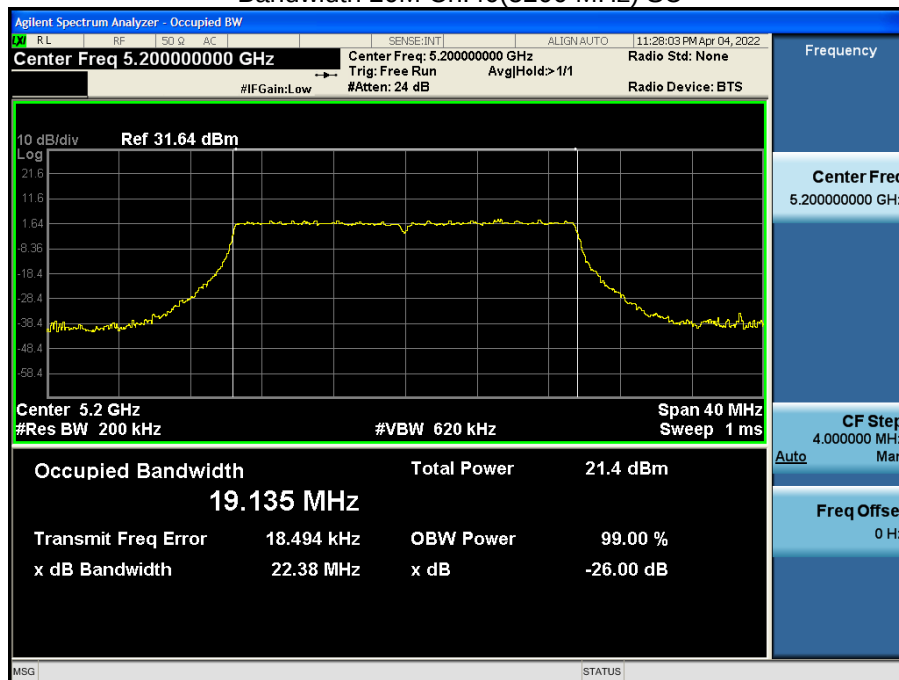
Note:

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

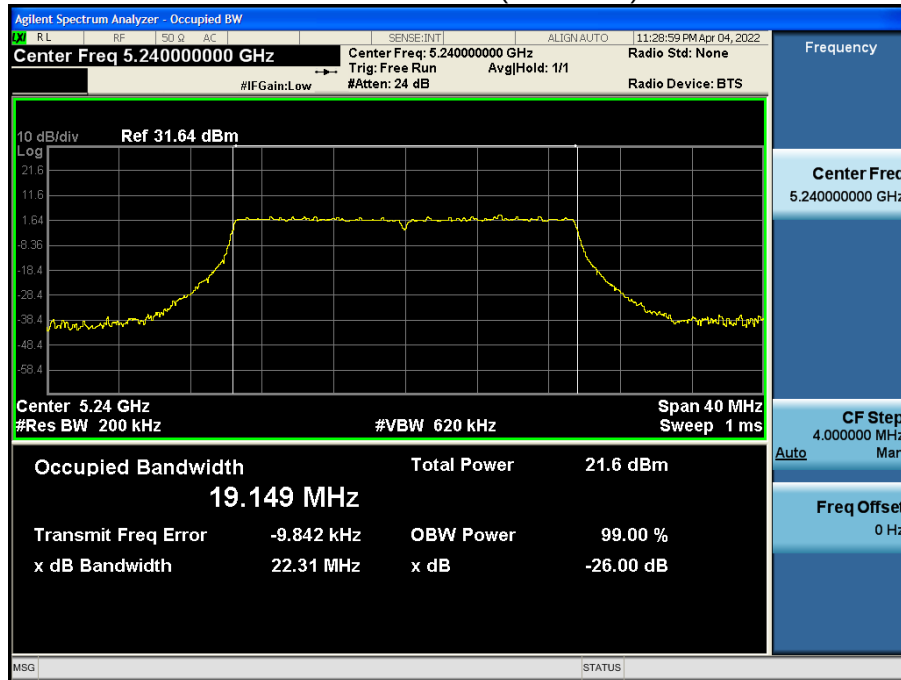
Bandwidth 20M Ch.36(5180 MHz) SU



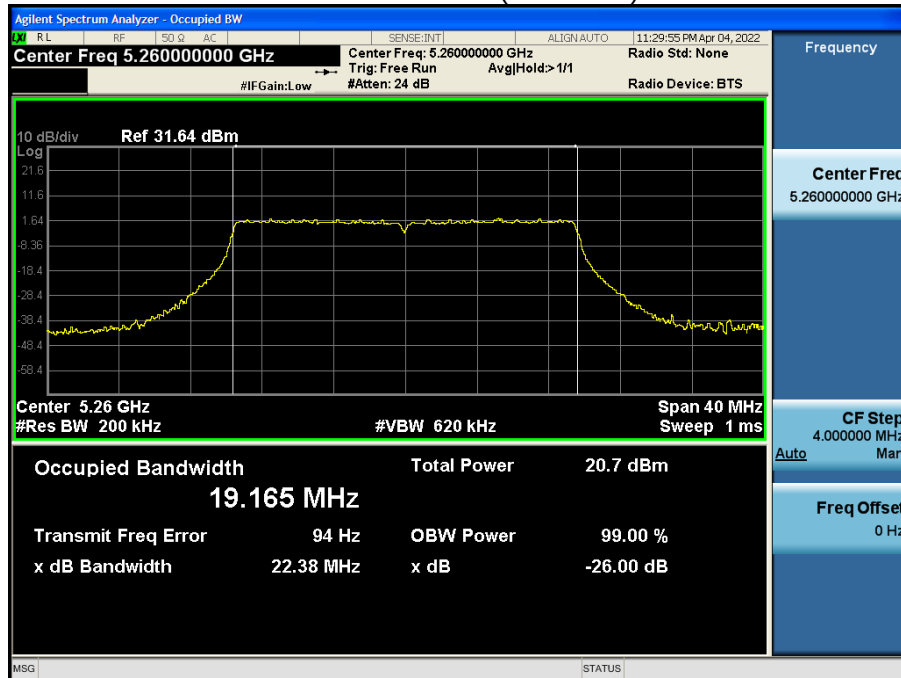
Bandwidth 20M Ch.40(5200 MHz) SU



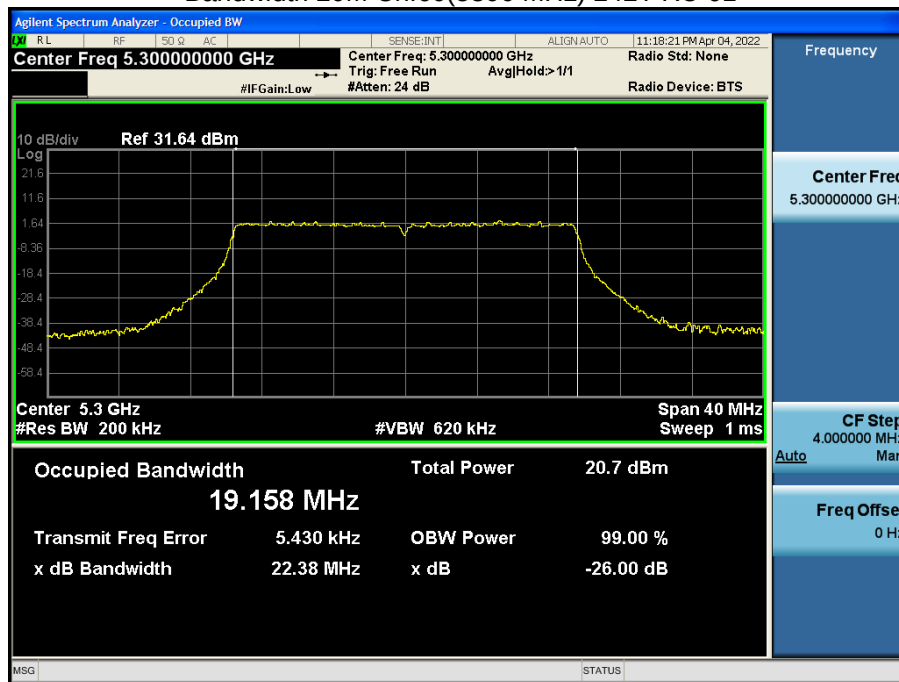
Bandwidth 20M Ch.48(5240 MHz) SU



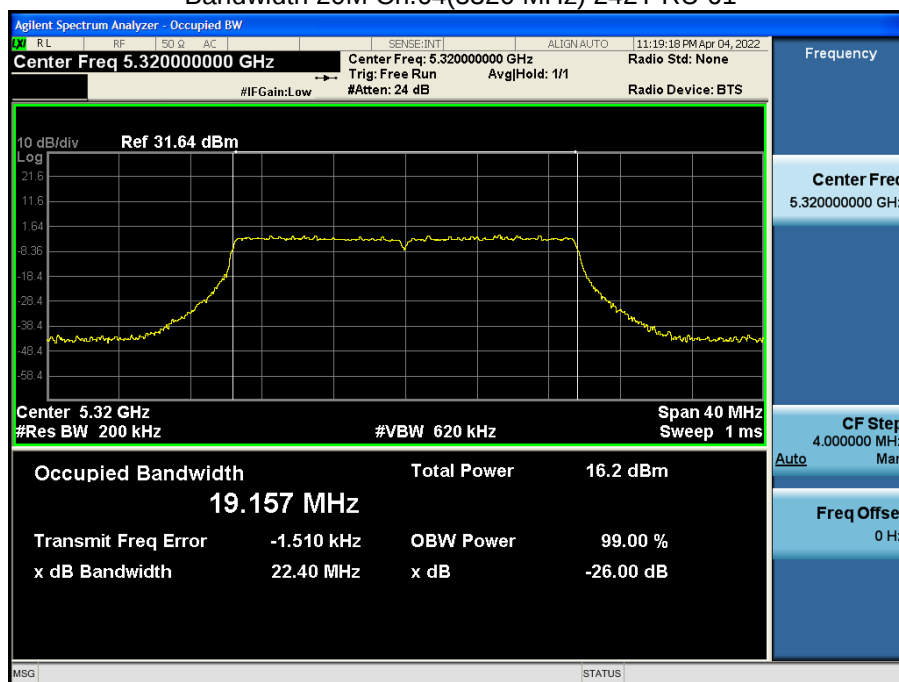
Bandwidth 20M Ch.52(5260 MHz) SU



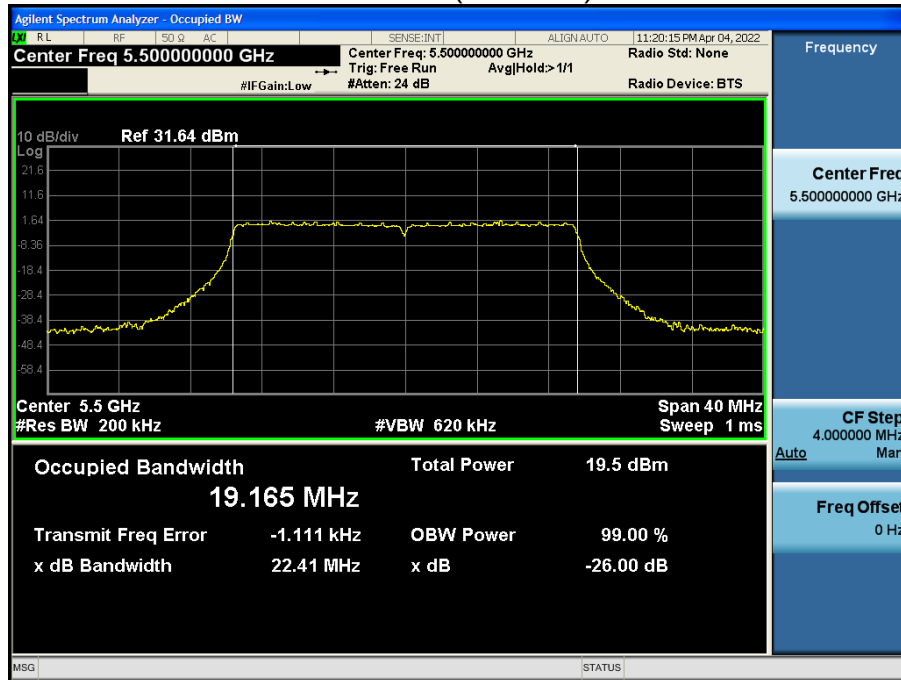
Bandwidth 20M Ch.60(5300 MHz) 242T RU 61



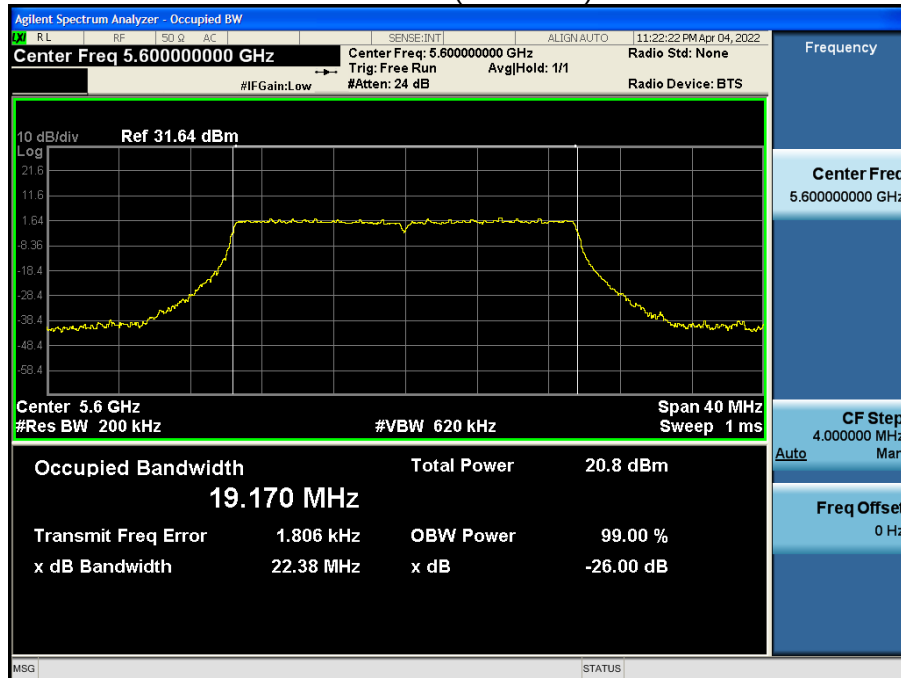
Bandwidth 20M Ch.64(5320 MHz) 242T RU 61



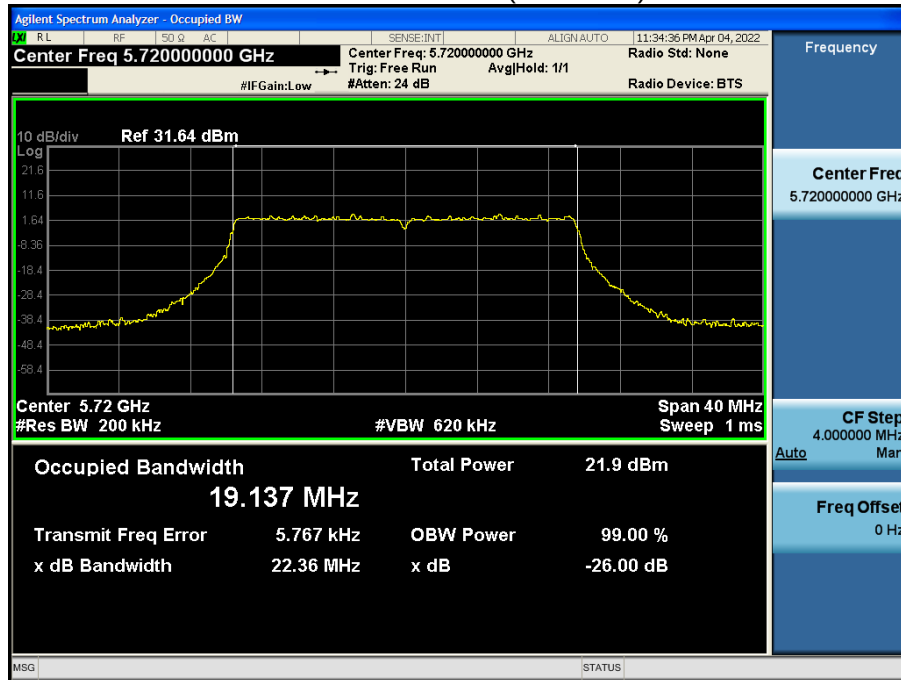
Bandwidth 20M Ch.100(5500 MHz) 242T RU 61



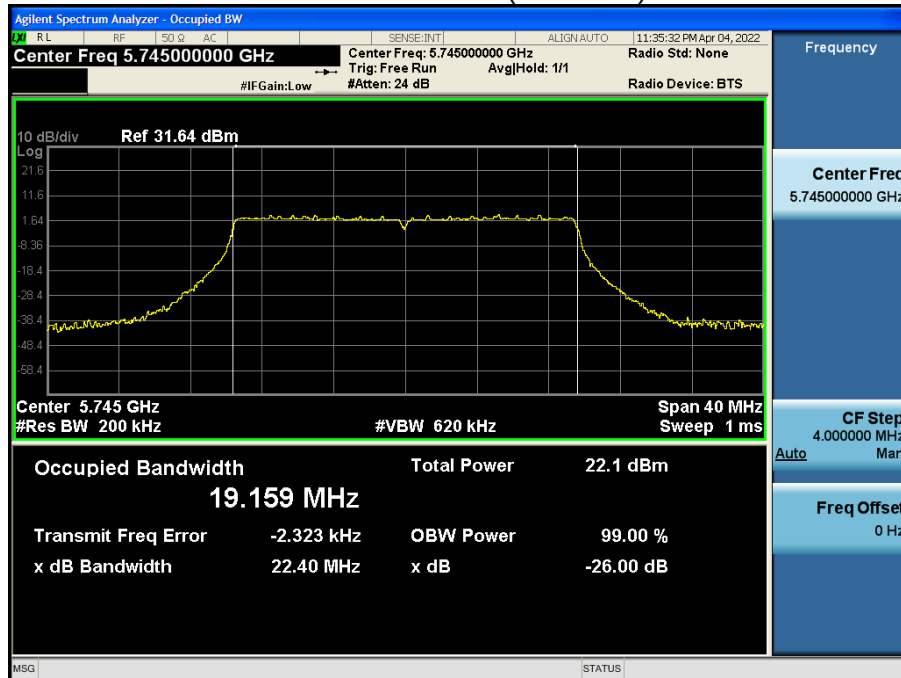
Bandwidth 20M Ch.120(5600 MHz) 242T RU 61



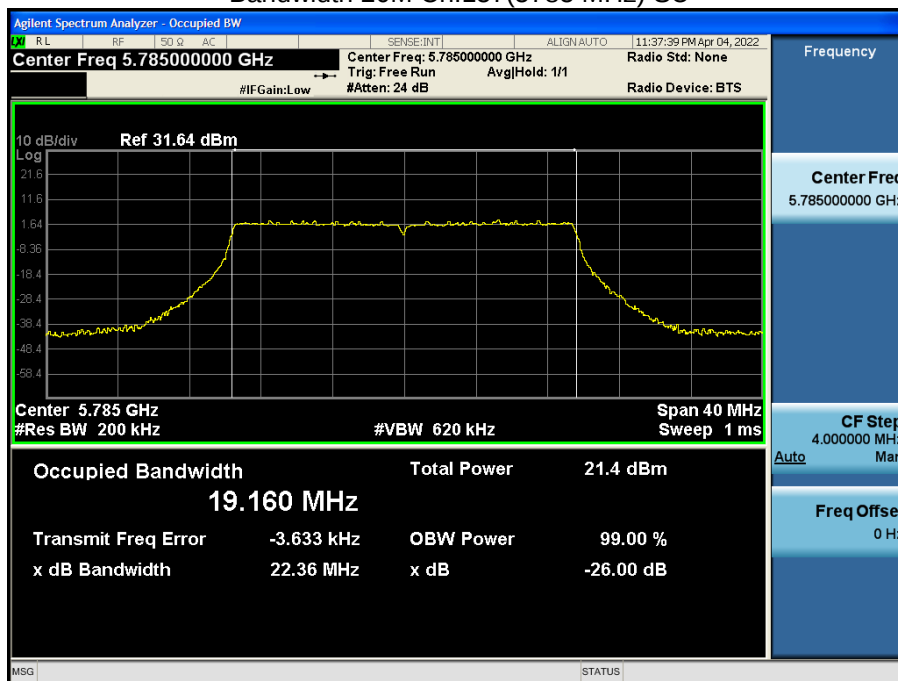
Bandwidth 20M Ch.144(5720 MHz) SU



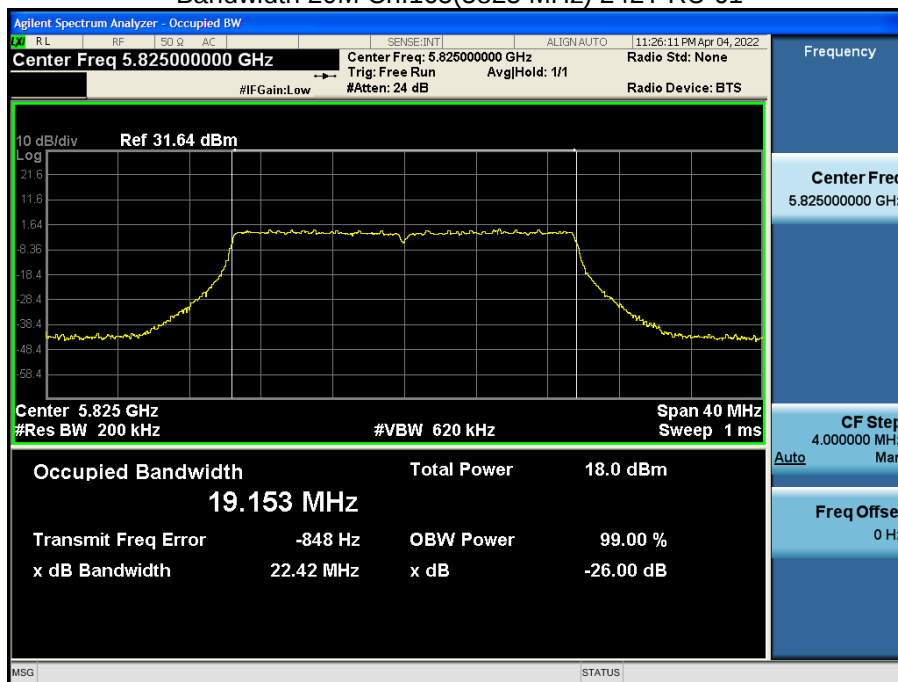
Bandwidth 20M Ch.149(5745 MHz) SU



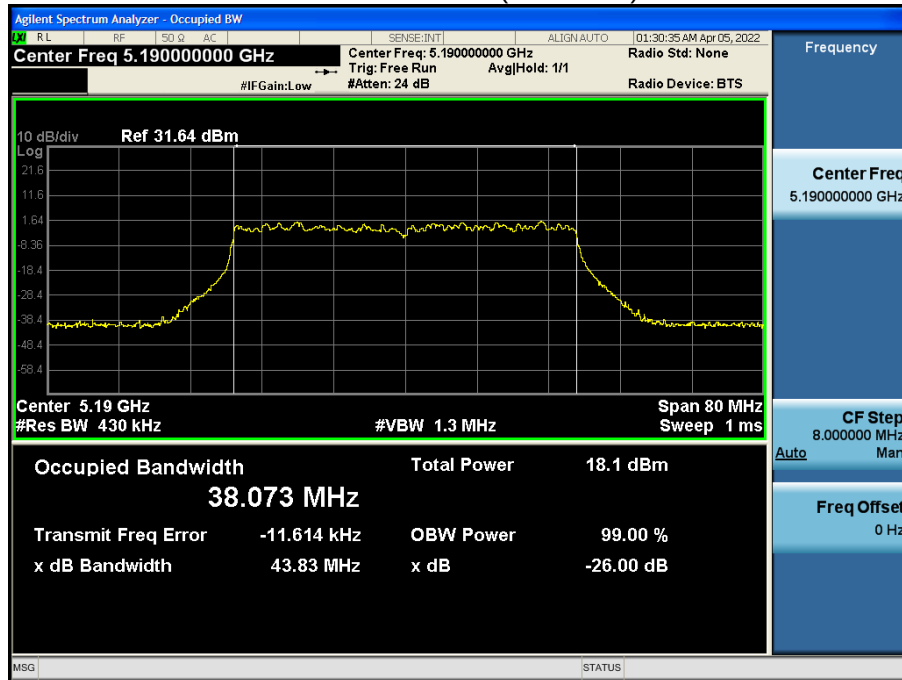
Bandwidth 20M Ch.157(5785 MHz) SU



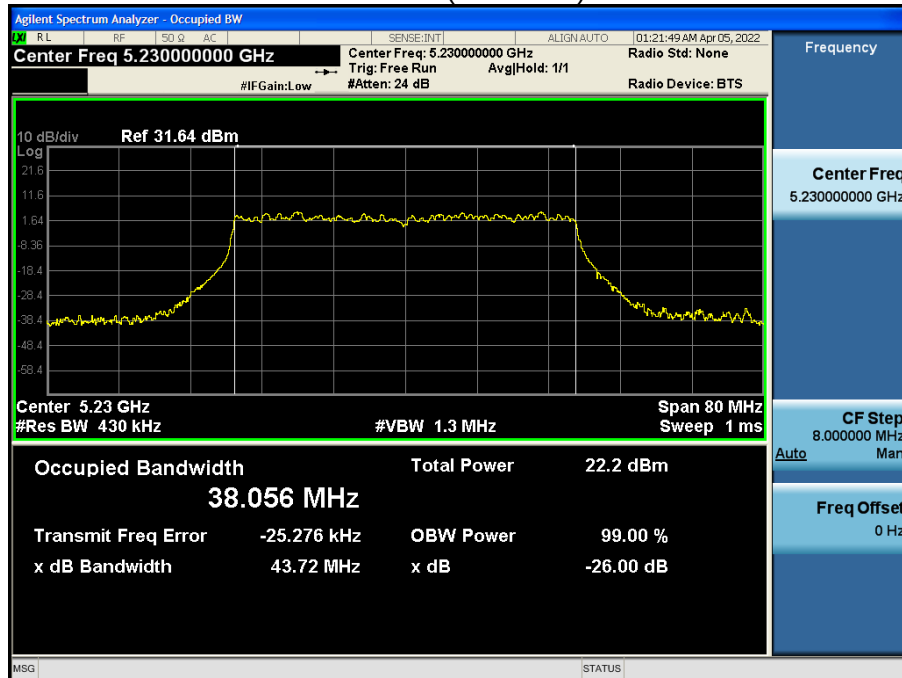
Bandwidth 20M Ch.165(5825 MHz) 242T RU 61



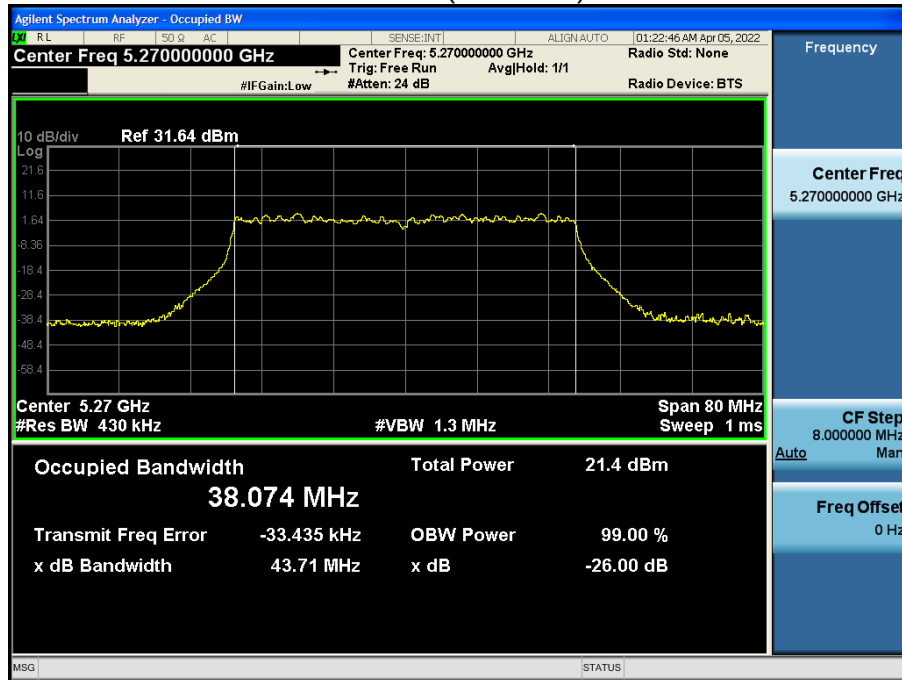
Bandwidth 40M Ch.38(5190 MHz) SU



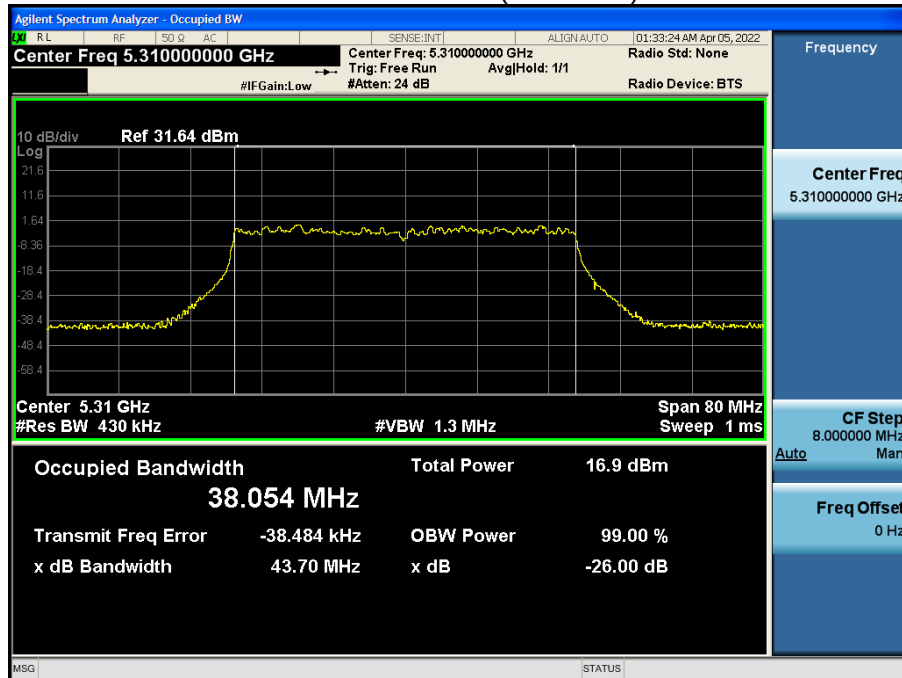
Bandwidth 40M Ch.46(5230 MHz) 484T RU 65



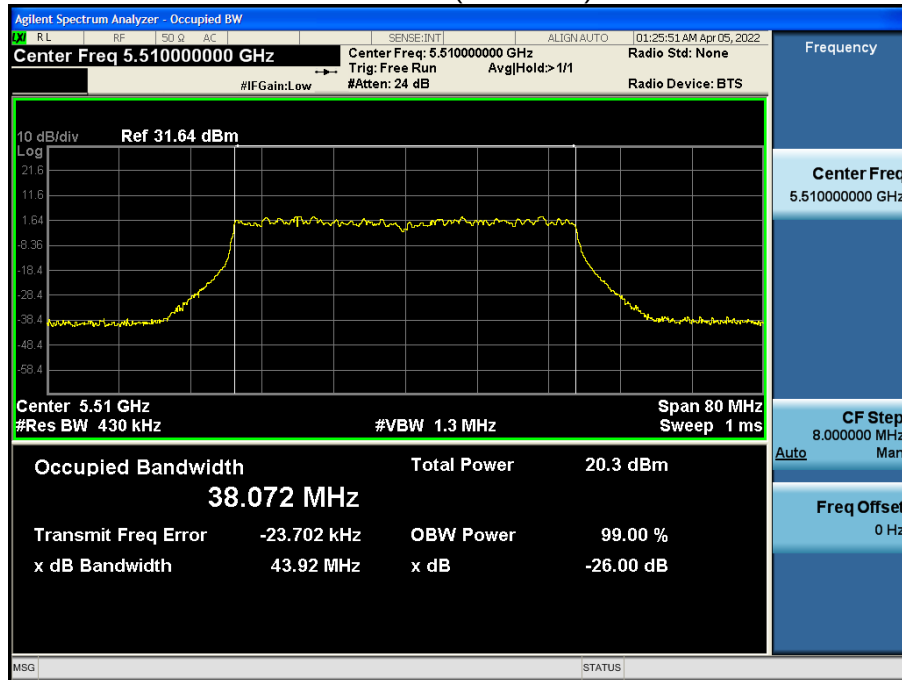
Bandwidth 40M Ch.54(5270 MHz) 484T RU 65



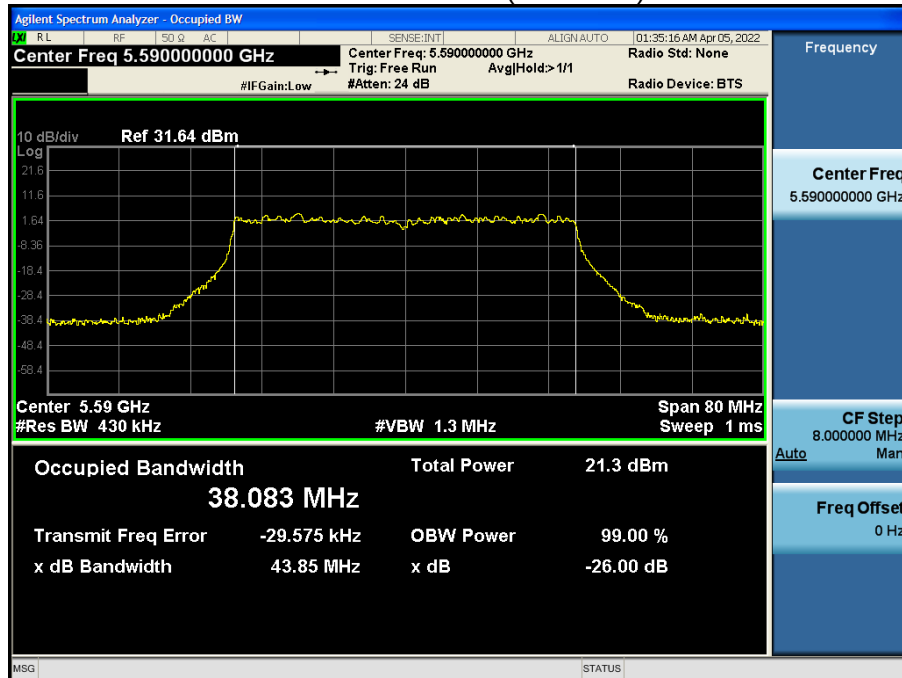
Bandwidth 40M Ch.62(5310 MHz) SU



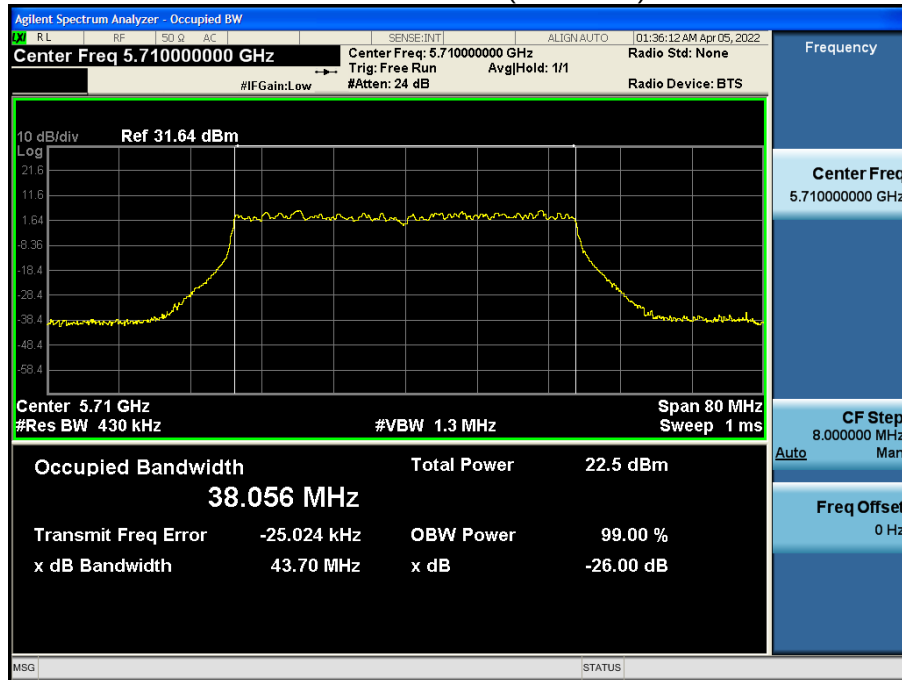
Bandwidth 40M Ch.102(5510 MHz) 484T RU 65



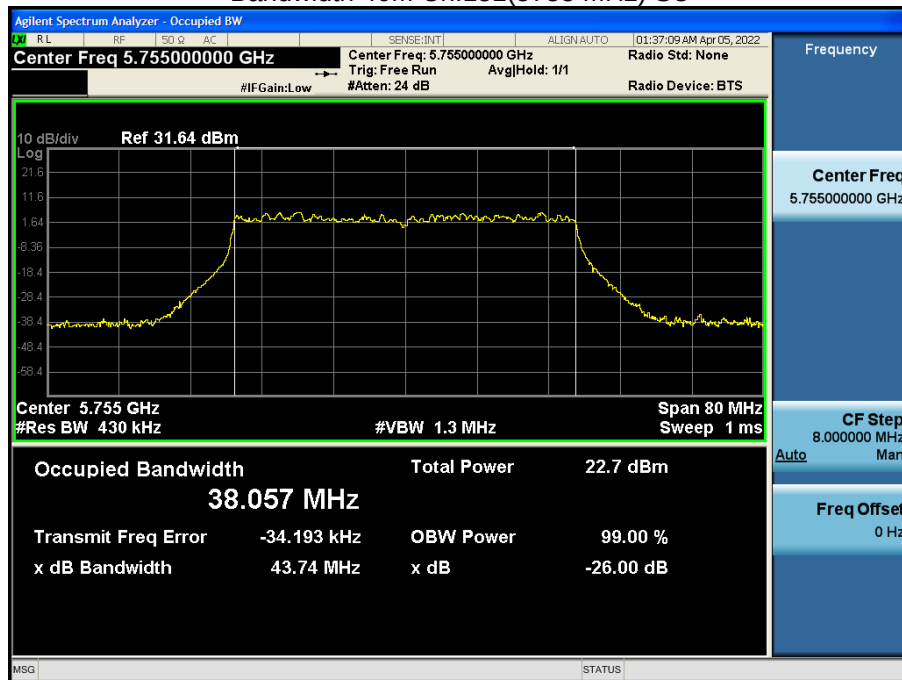
Bandwidth 40M Ch.118(5590 MHz) SU



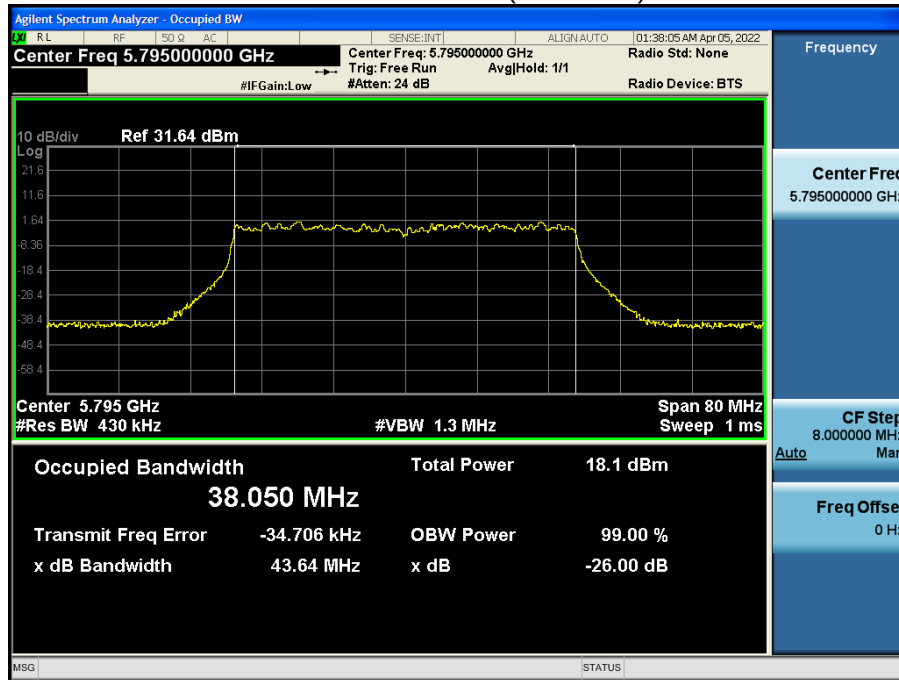
Bandwidth 40M Ch.142(5710 MHz) SU



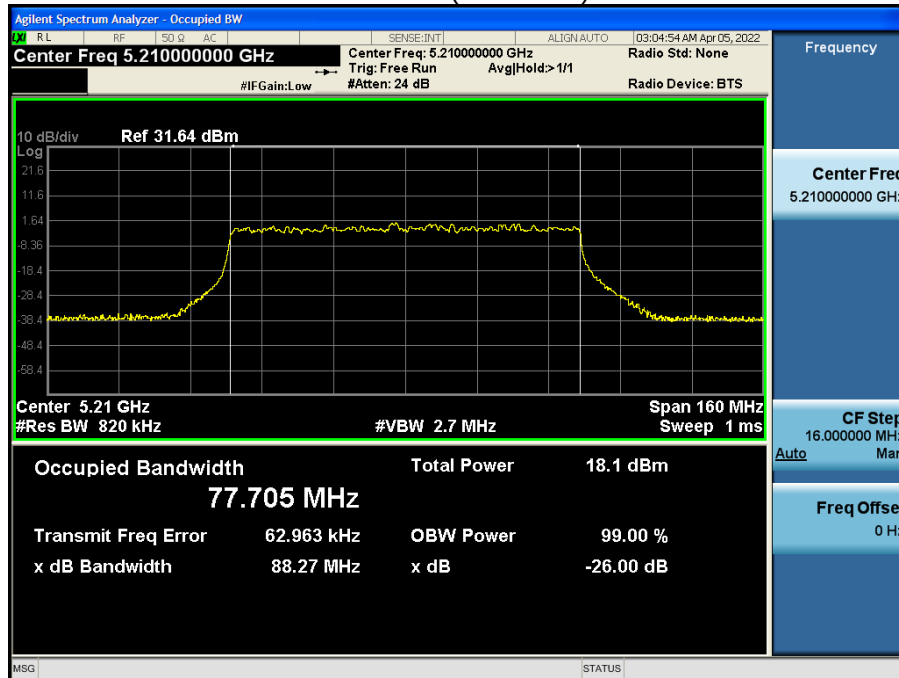
Bandwidth 40M Ch.151(5755 MHz) SU



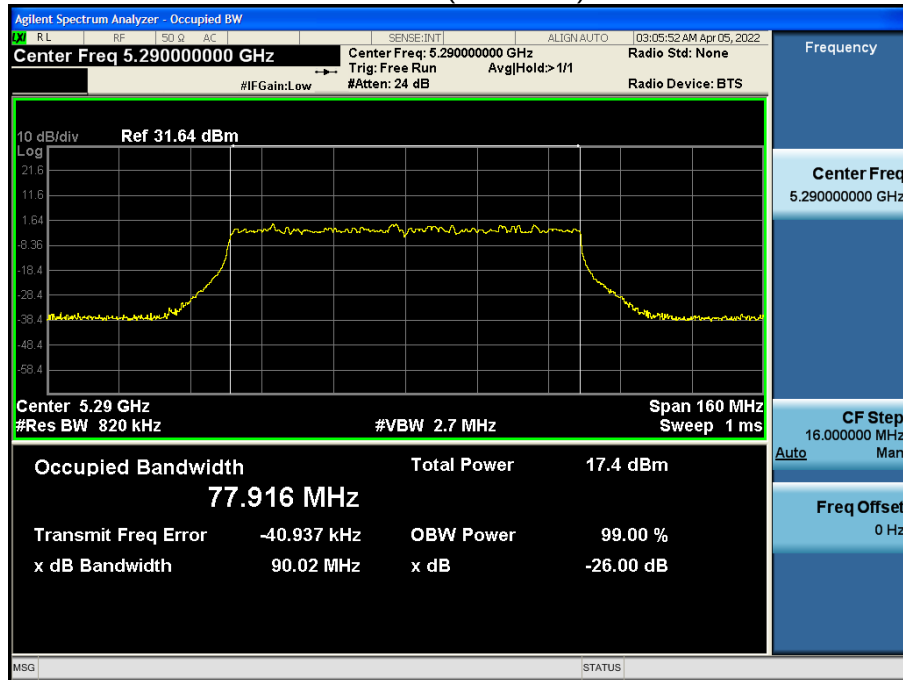
Bandwidth 40M Ch.159(5795 MHz) SU



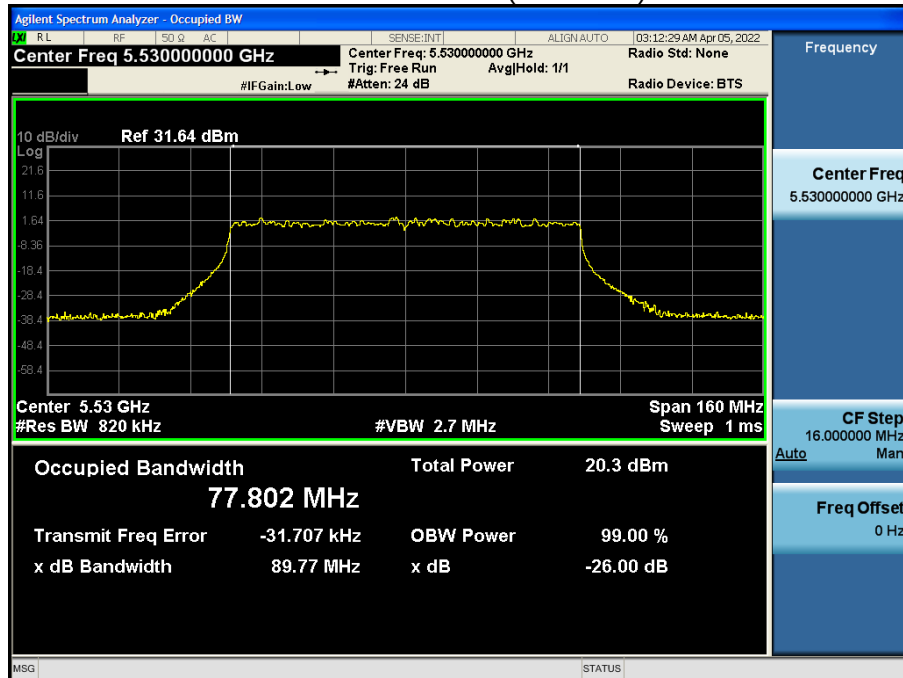
Bandwidth 80M Ch.42(5210 MHz)996T RU 67



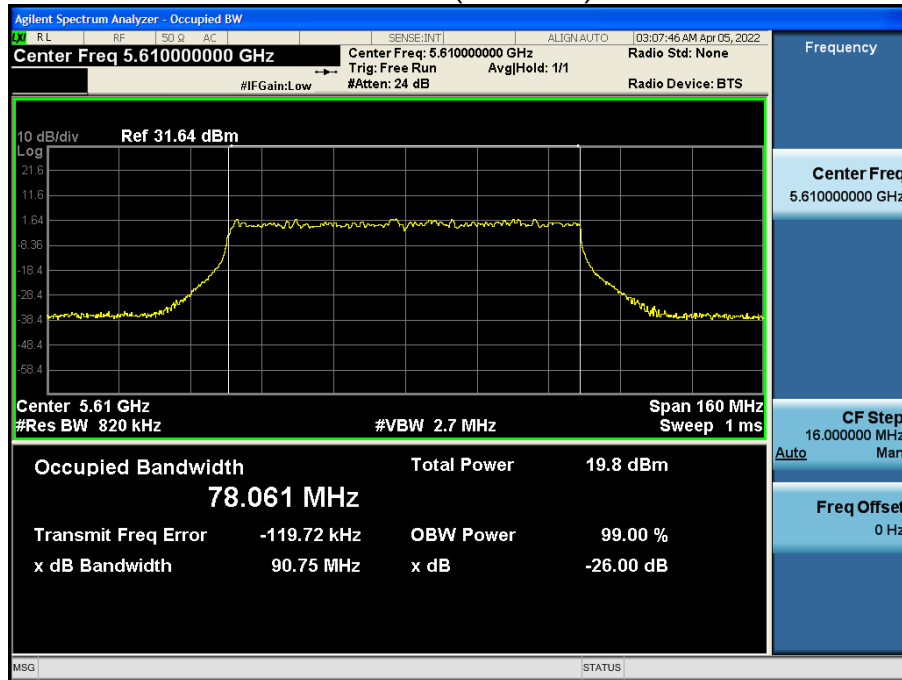
Bandwidth 80M Ch.58(5290 MHz) 996T RU 67



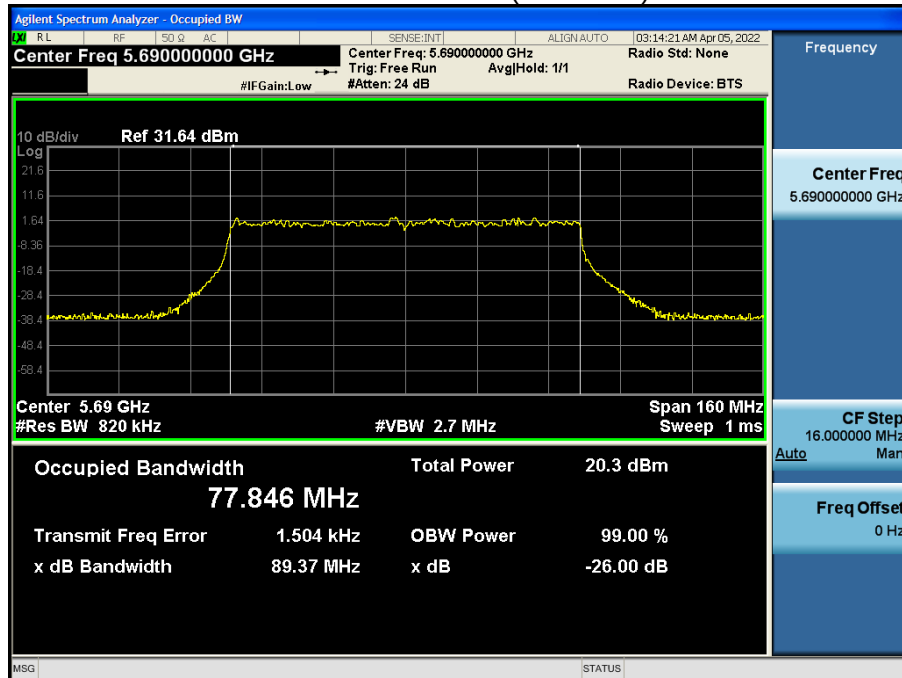
Bandwidth 80M Ch.106(5530 MHz) SU



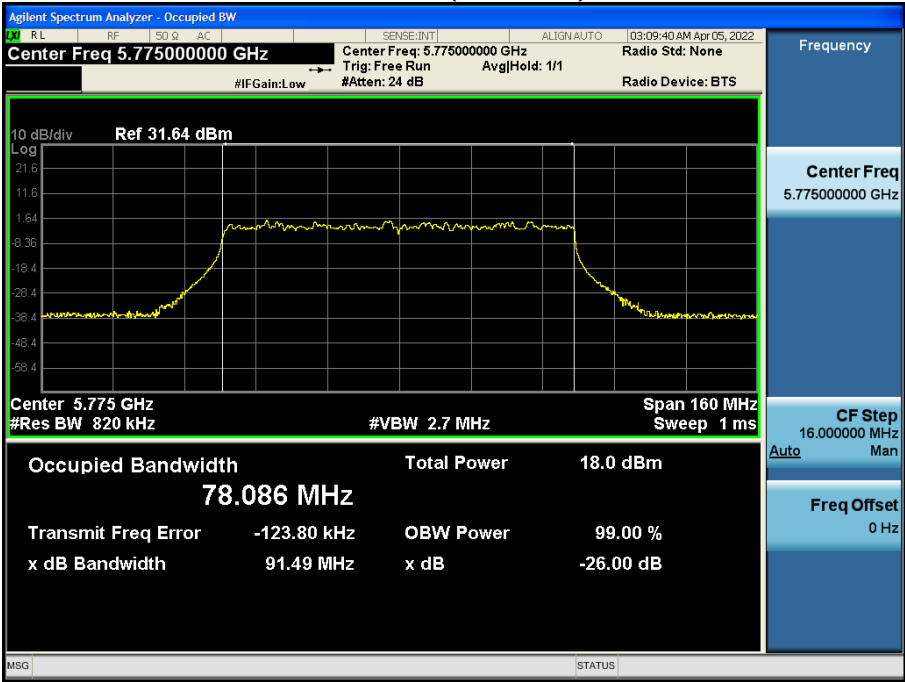
Bandwidth 80M Ch.122(5610 MHz) 996T RU 67



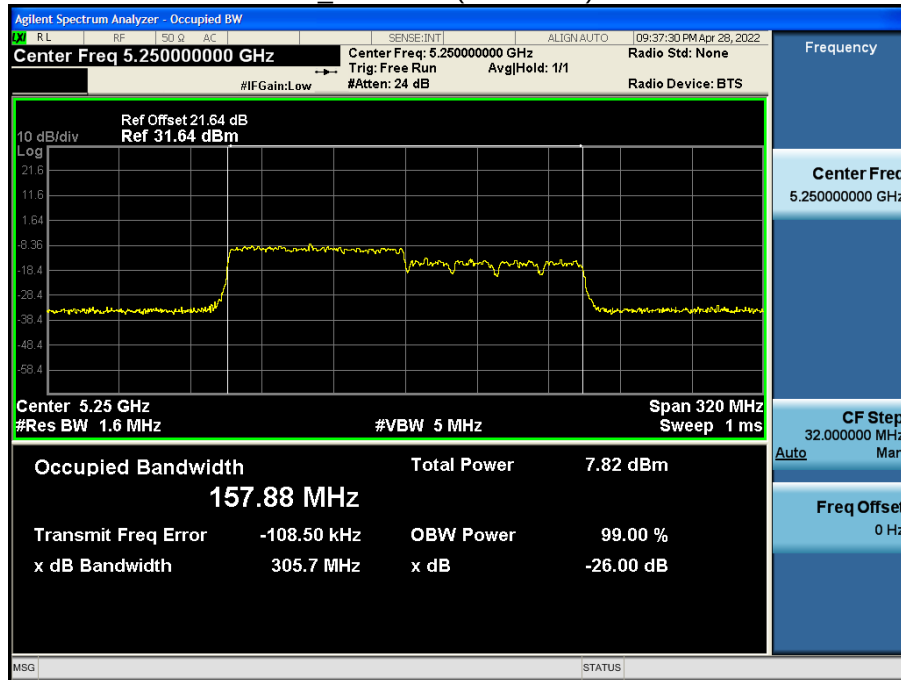
Bandwidth 80M Ch.138(5690 MHz)SU



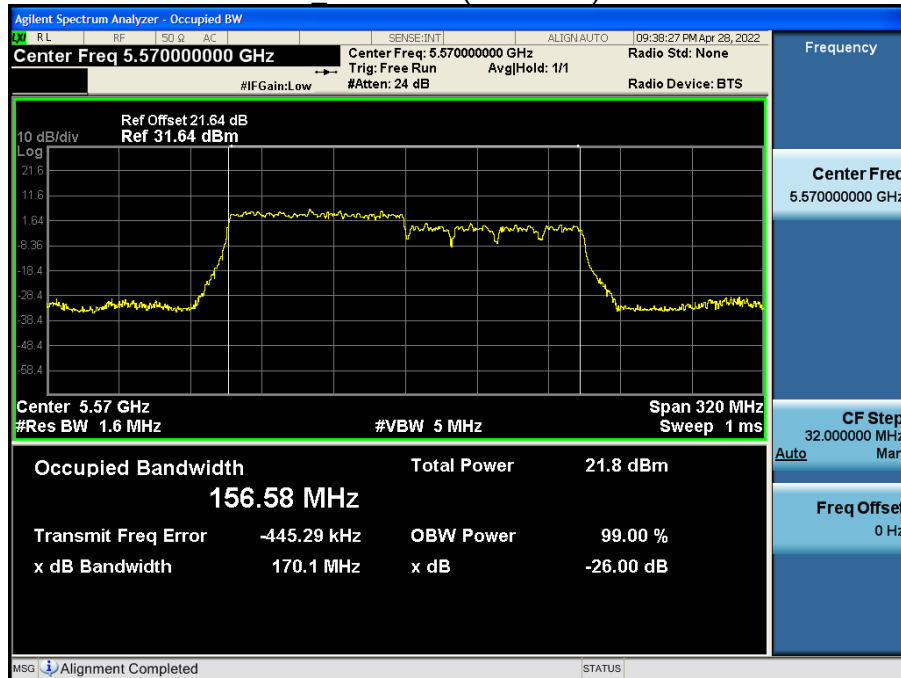
Bandwidth 80M Ch.155(5775 MHz) 996T RU 67



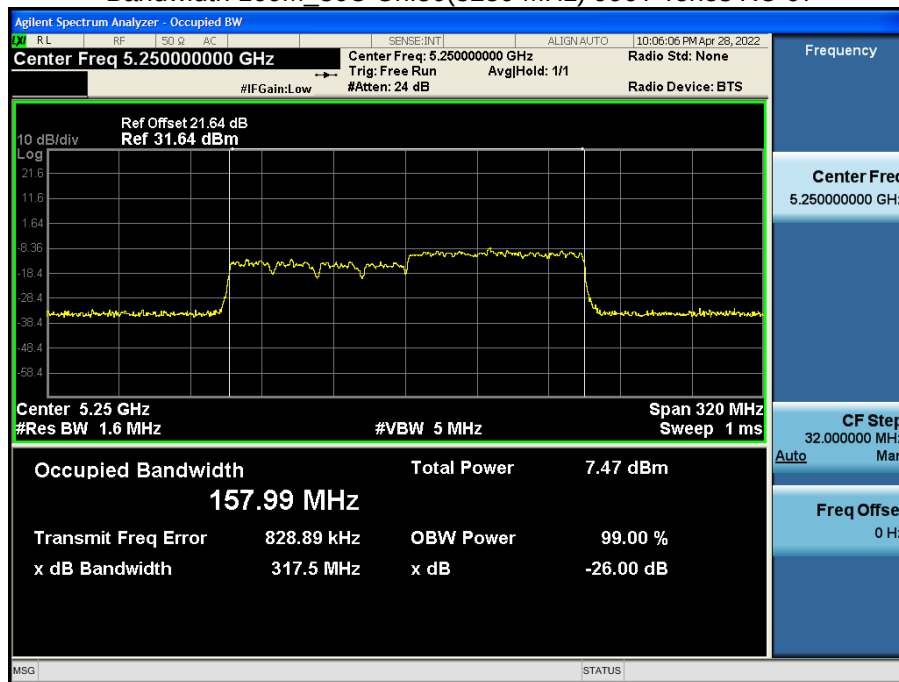
Bandwidth 160M 80L Ch.50(5250 MHz) 996Tones RU 67



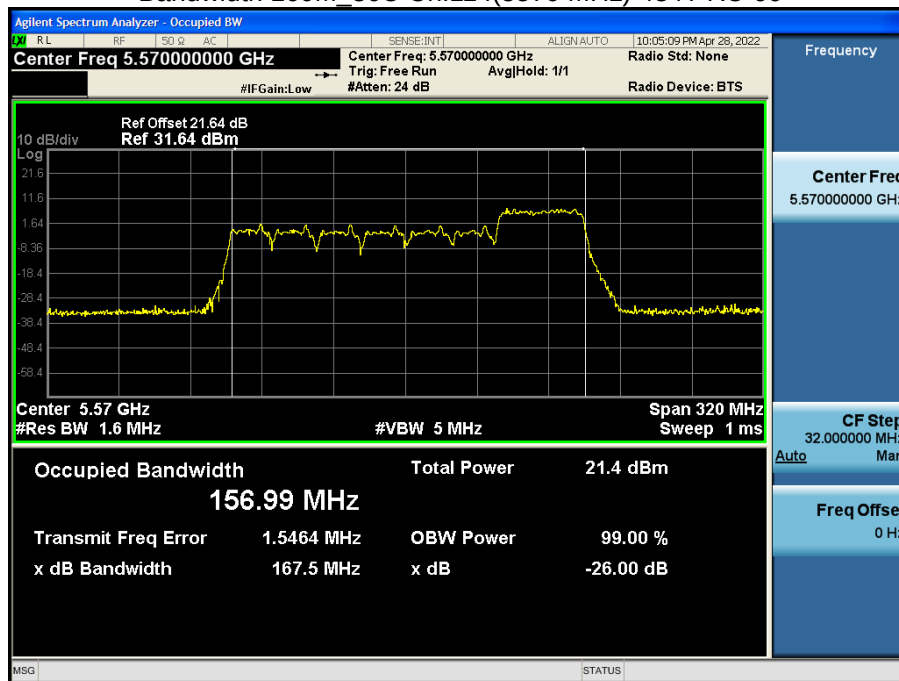
Bandwidth 160M 80L Ch.114(5570 MHz) 996Tones RU 67



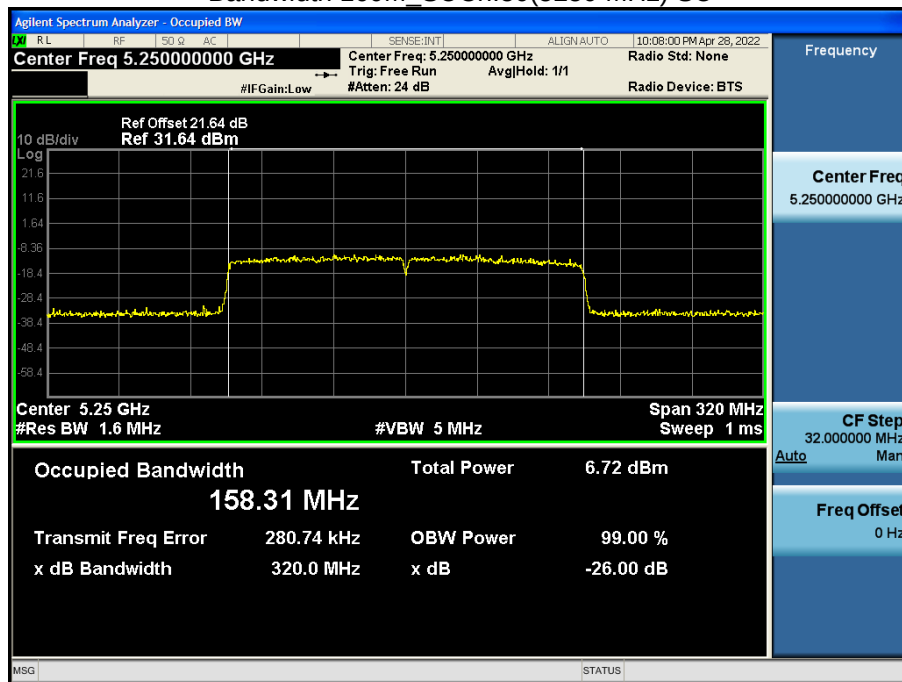
Bandwidth 160M 80U Ch.50(5250 MHz) 996T Tones RU 67



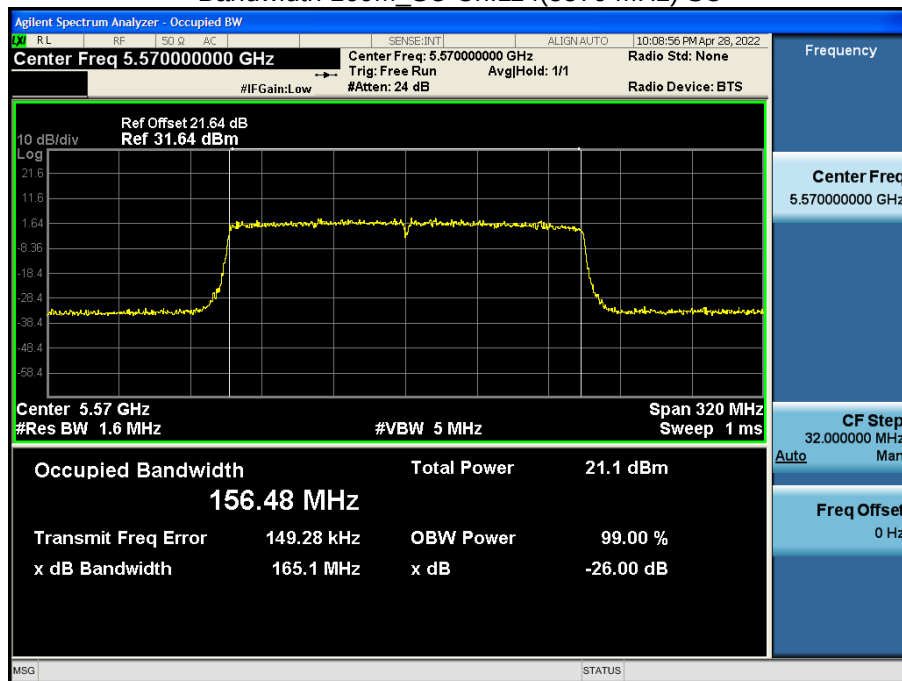
Bandwidth 160M 80U Ch.114(5570 MHz) 484T RU 66



Bandwidth 160M_SUC.h.50(5250 MHz) SU



Bandwidth 160M_SU Ch.114(5570 MHz) SU



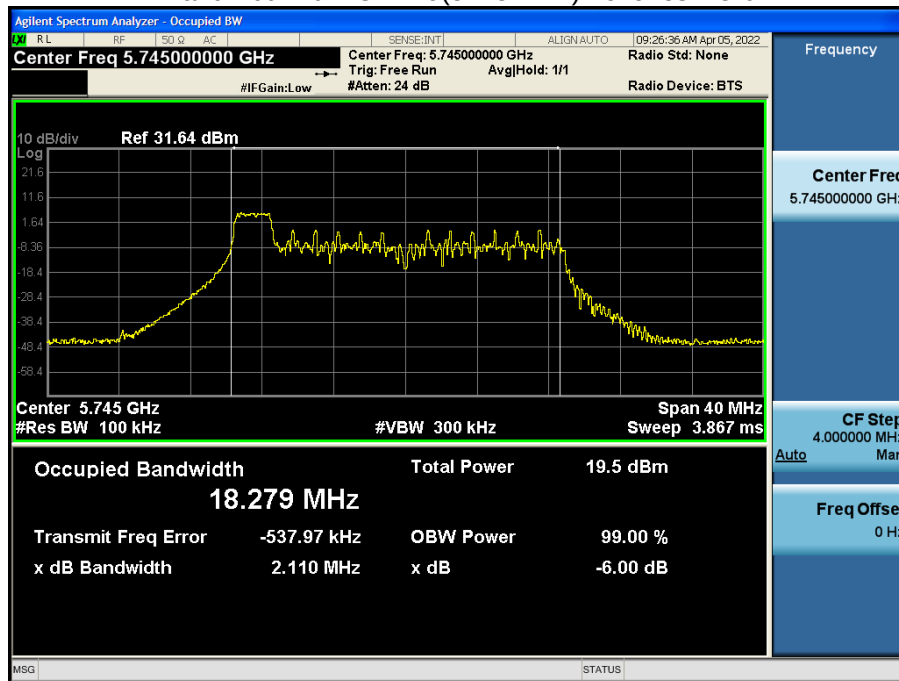
3. 6dB Bandwidth

Note:

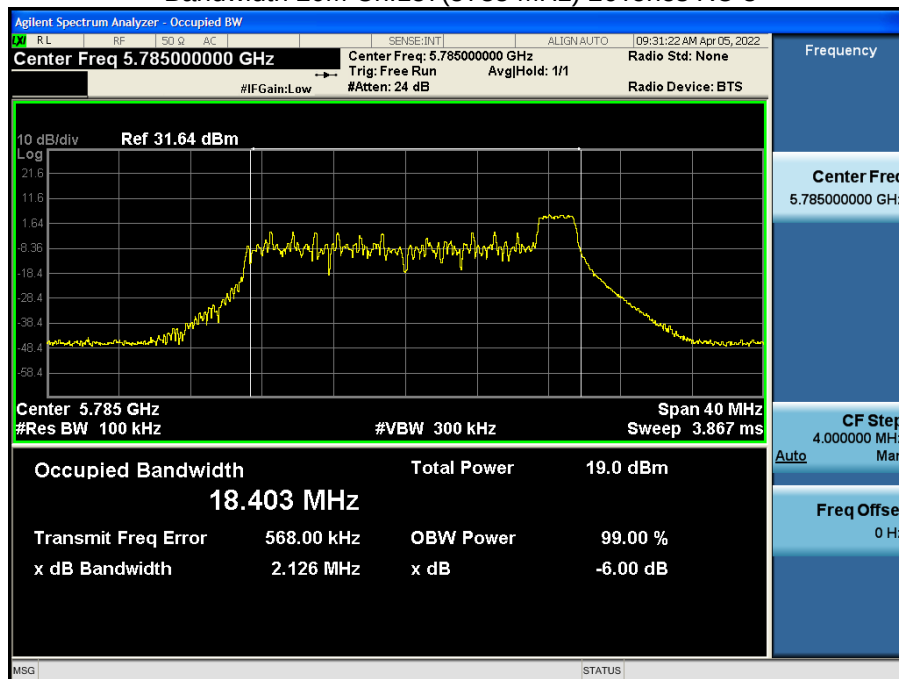
1. In order to simplify the report, attached plots were only the most narrow channel.

3.1 SISO Ant1

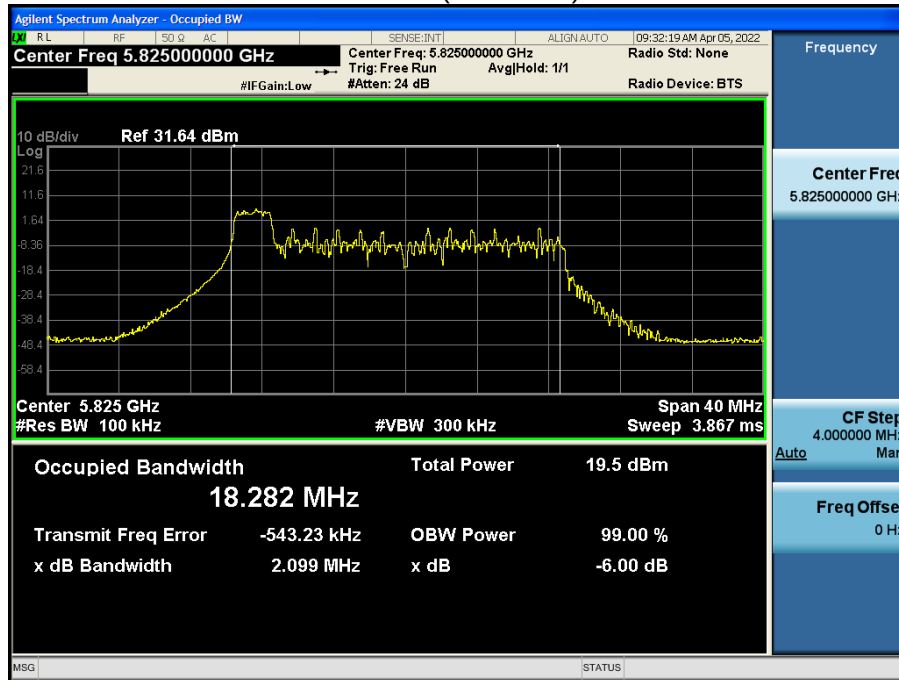
Bandwidth 20M Ch.149(5745 MHz) 26Tones RU 0



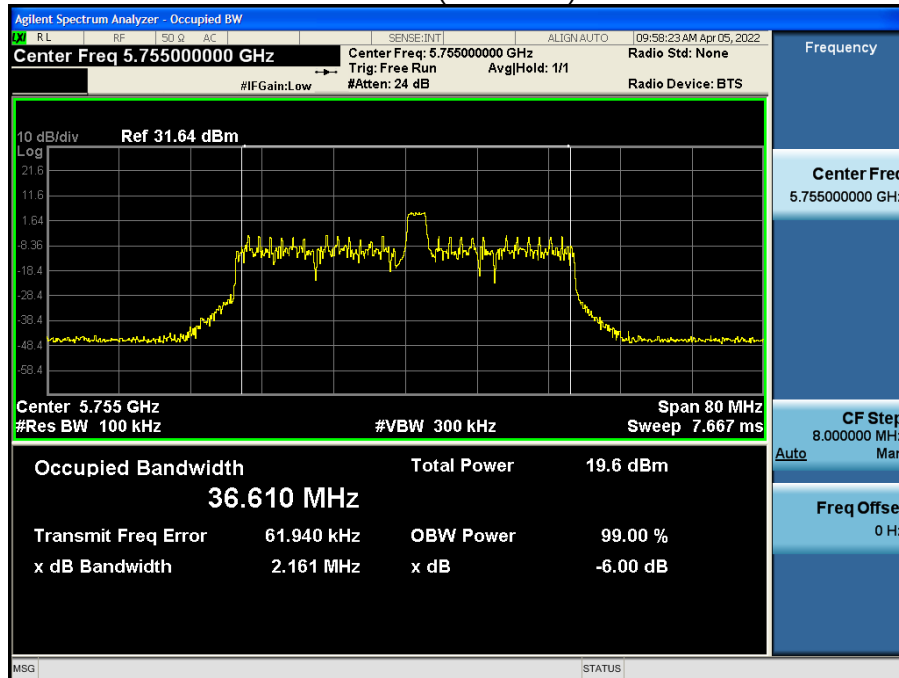
Bandwidth 20M Ch.157(5785 MHz) 26Tones RU 8



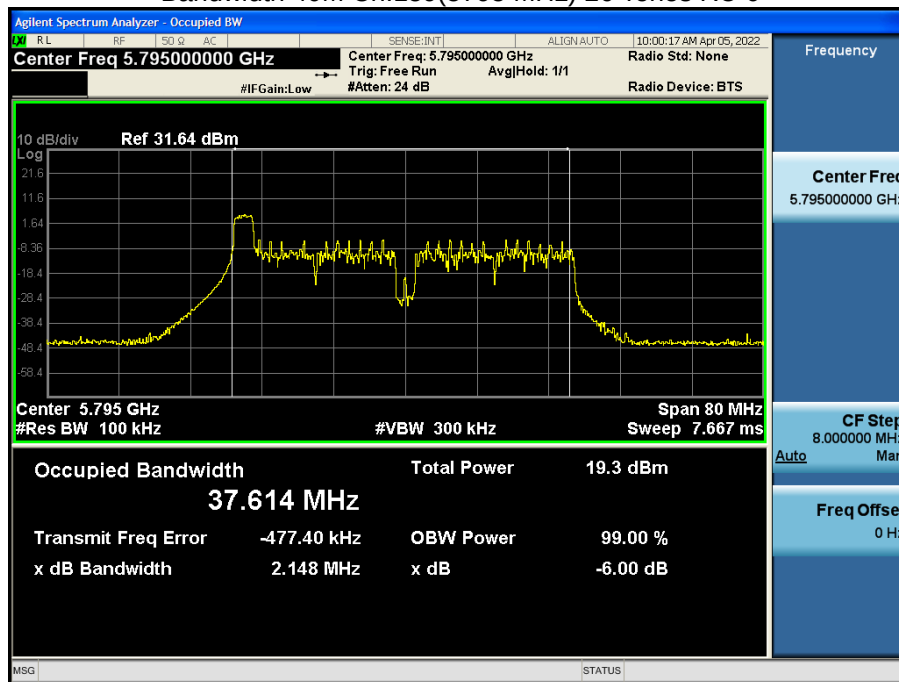
Bandwidth 20M Ch.165(5825 MHz) 26Tones RU 0



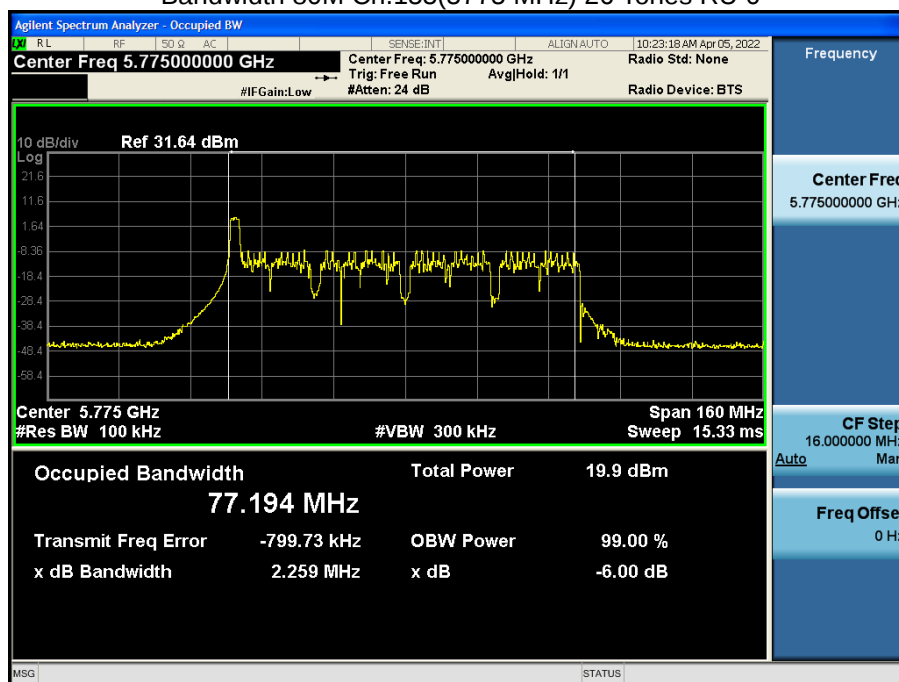
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 9



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

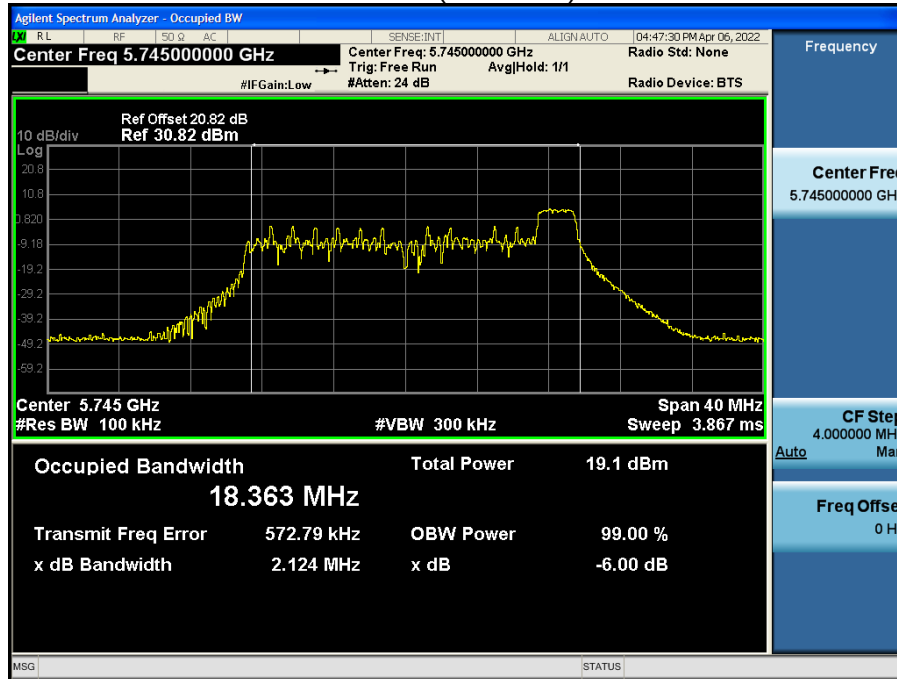


Bandwidth 80M Ch.155(5775 MHz) 26 Tones RU 0

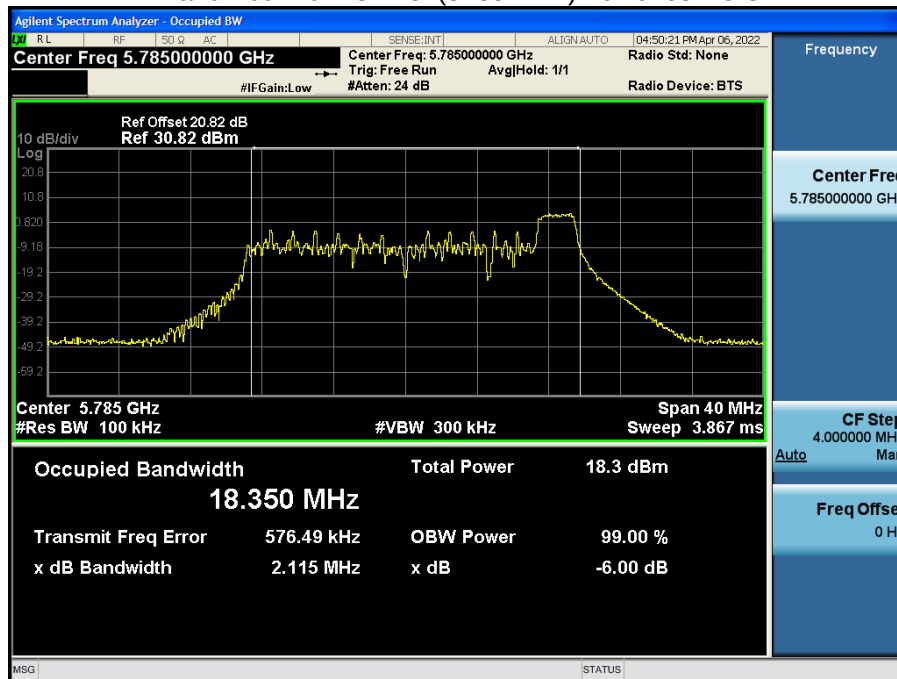


3.2 SISO Ant2

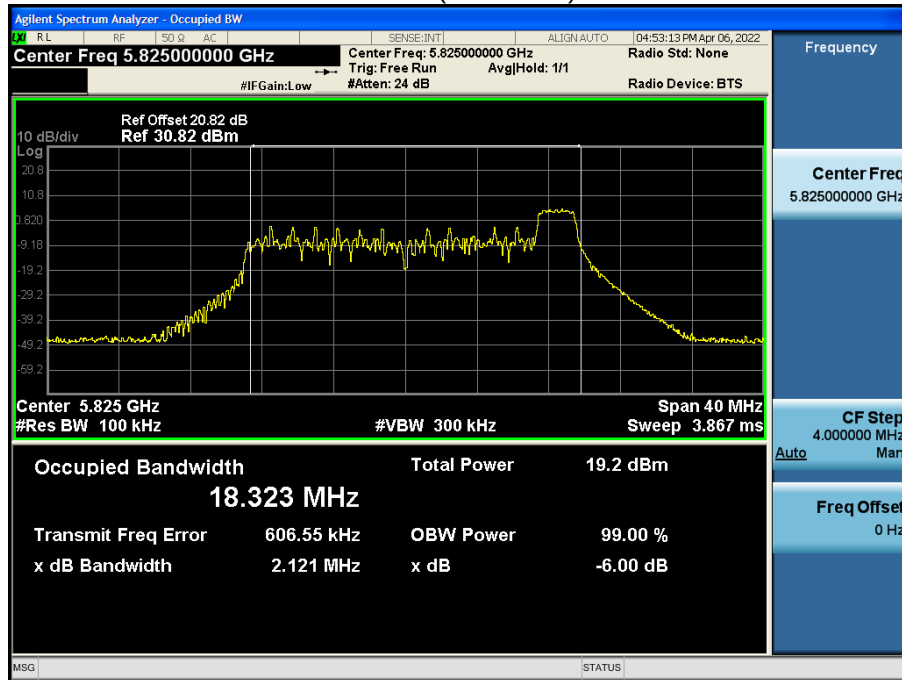
Bandwidth 20M Ch.149(5745 MHz) 26 Tones RU 8



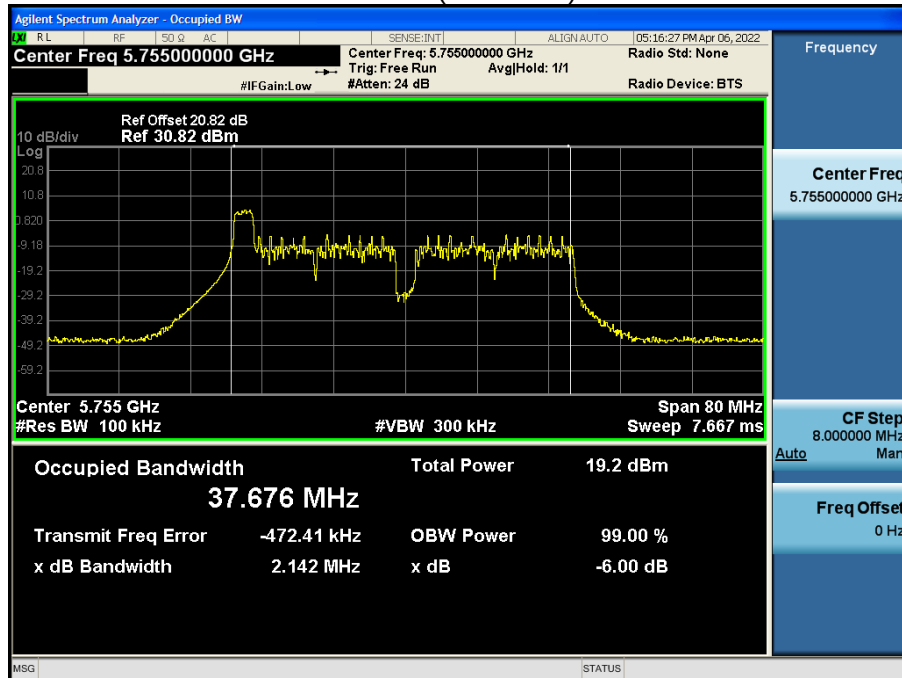
Bandwidth 20M Ch.157(5785 MHz) 26 Tones RU 8



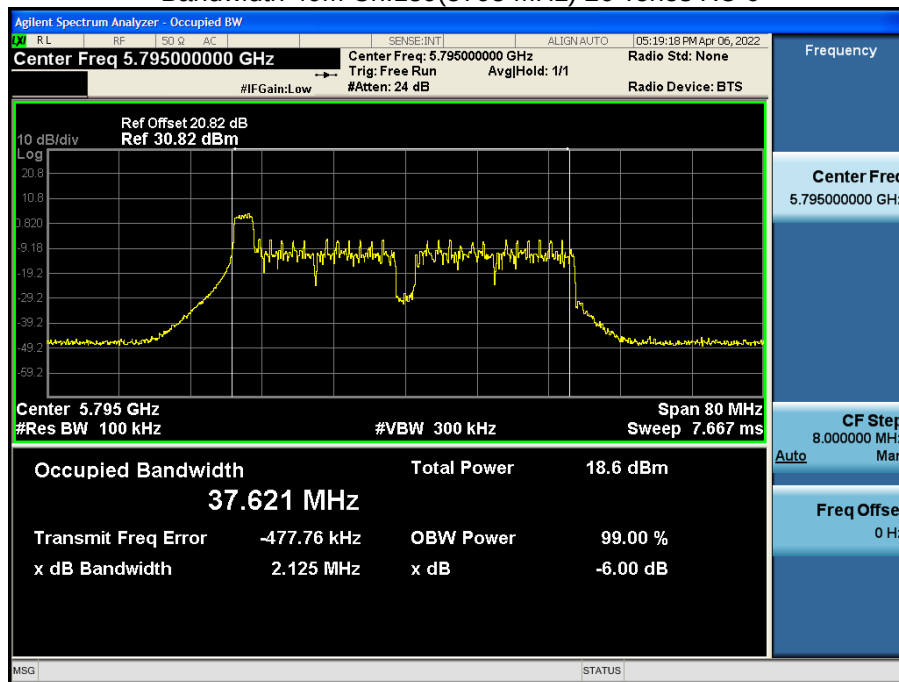
Bandwidth 20M Ch.165(5825 MHz) 26 Tones RU 8



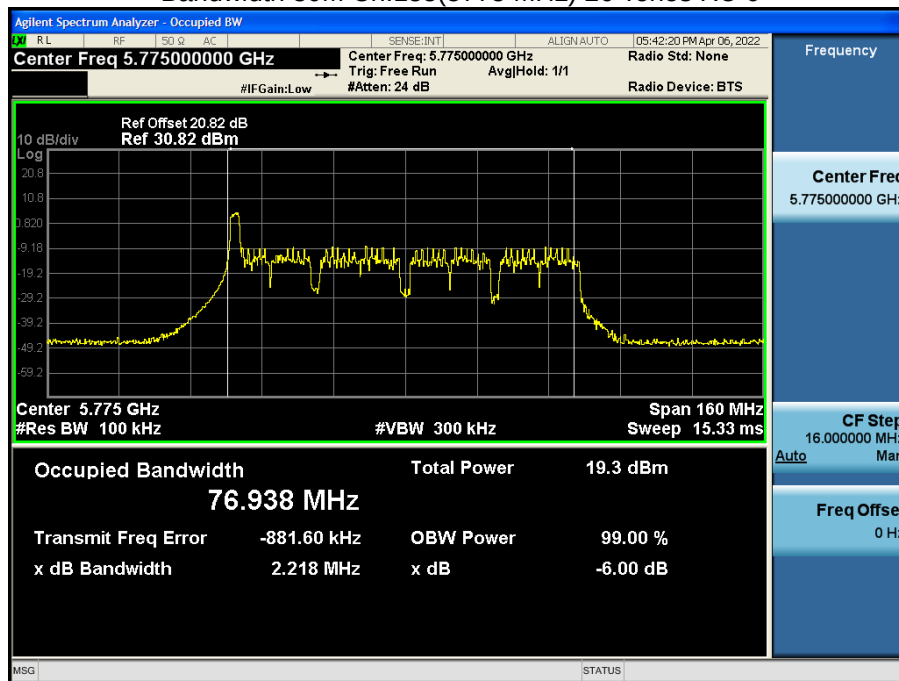
Bandwidth 40M Ch.151(5755 MHz) 26 Tones RU 0



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



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



4. Power Spectral Density

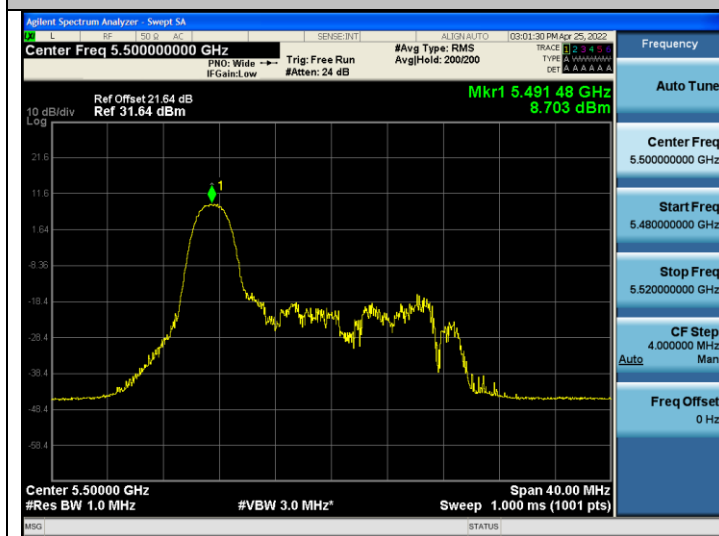
Note:

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

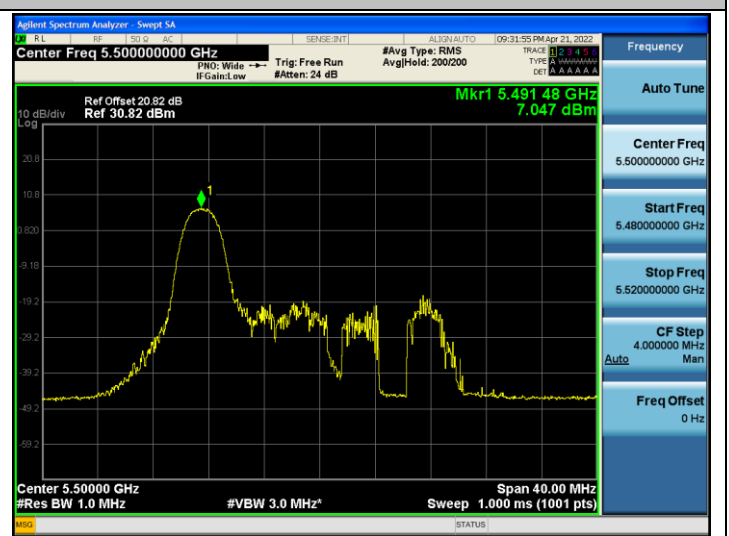
4.1 SUM (SISO Ant 1 + SISO Ant 2)

Bandwidth 20M Ch.100(5500 MHz) 26 Tones RU 0

Ant1



Ant2



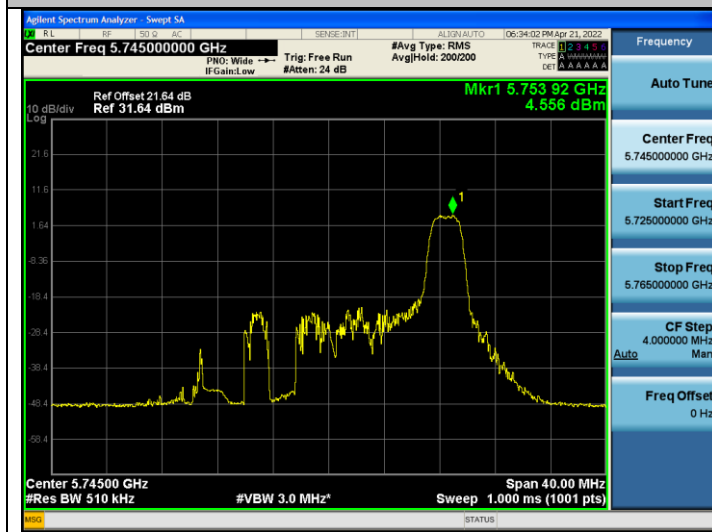
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.964	0.03	10.994

Note:

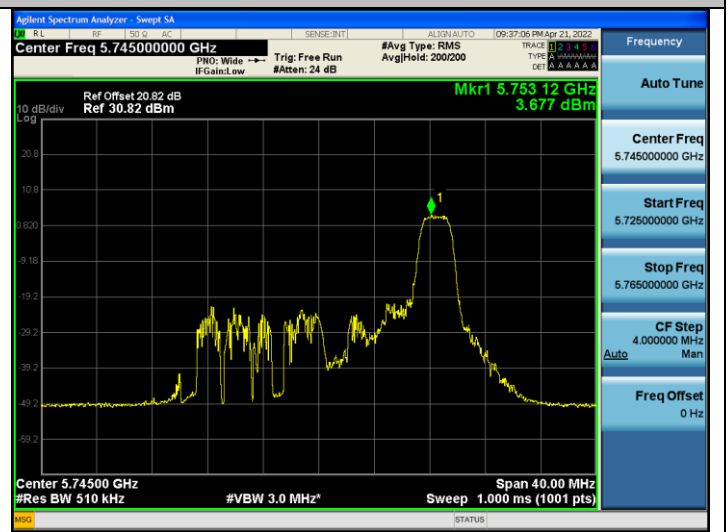
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

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

Ant1



Ant2



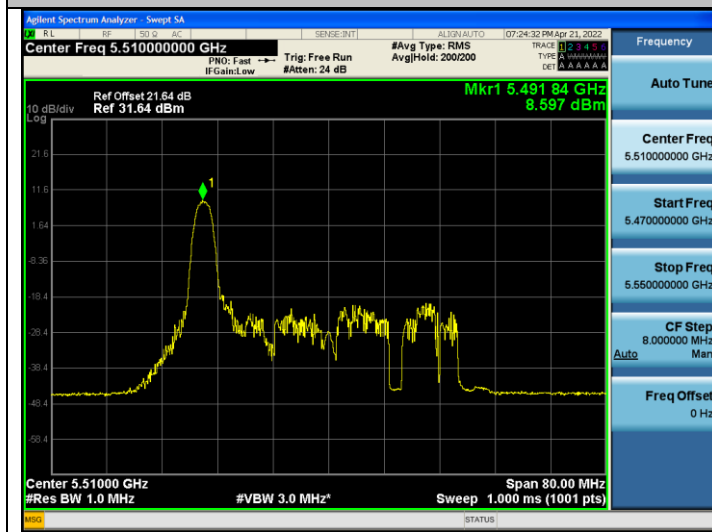
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.149	0.030	7.179

Note:

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

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

Ant1



Ant2



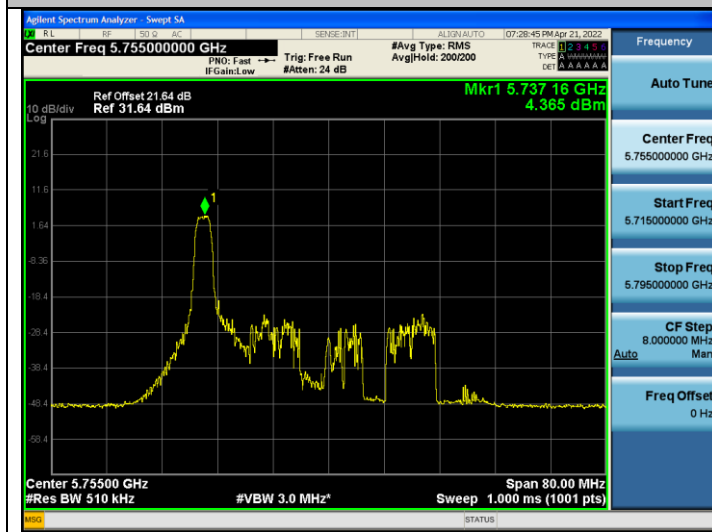
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.859	0.030	10.889

Note:

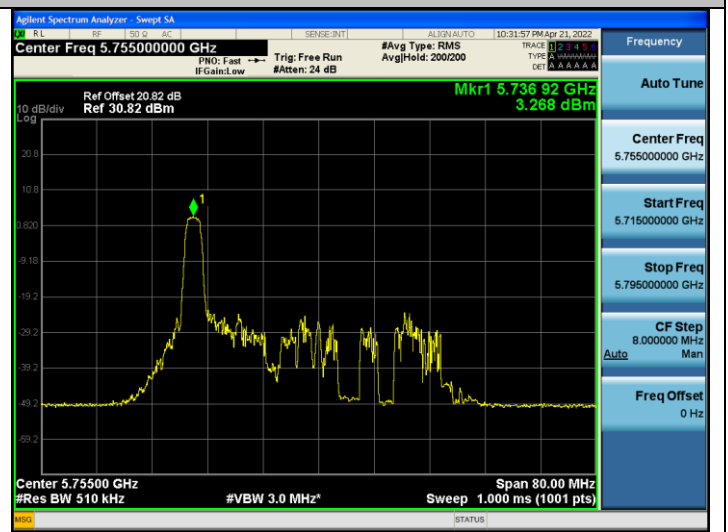
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

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

Ant1



Ant2



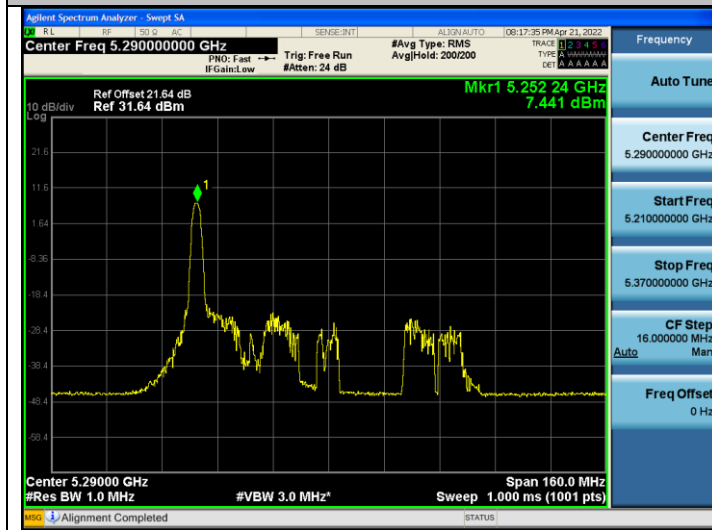
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.861	0.030	6.891

Note:

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

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

Ant1



Ant2



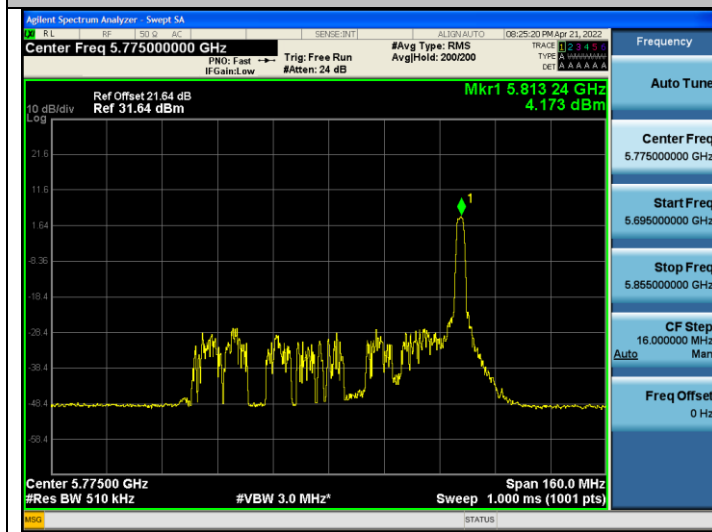
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.599	0.025	10.624

Note:

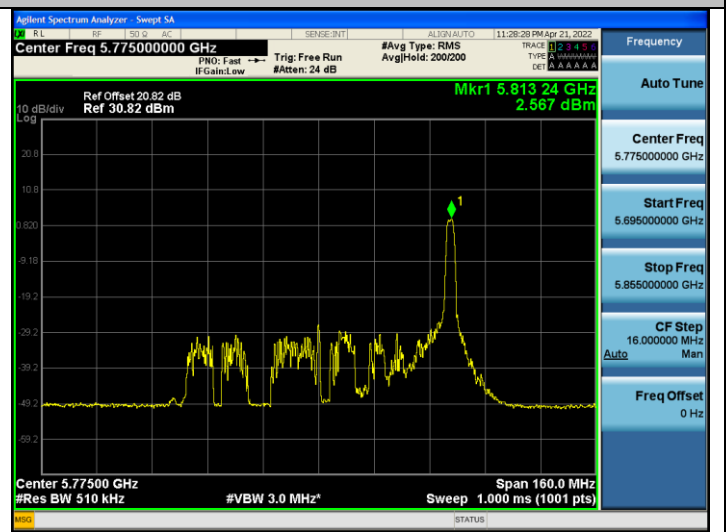
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

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

Ant1



Ant2



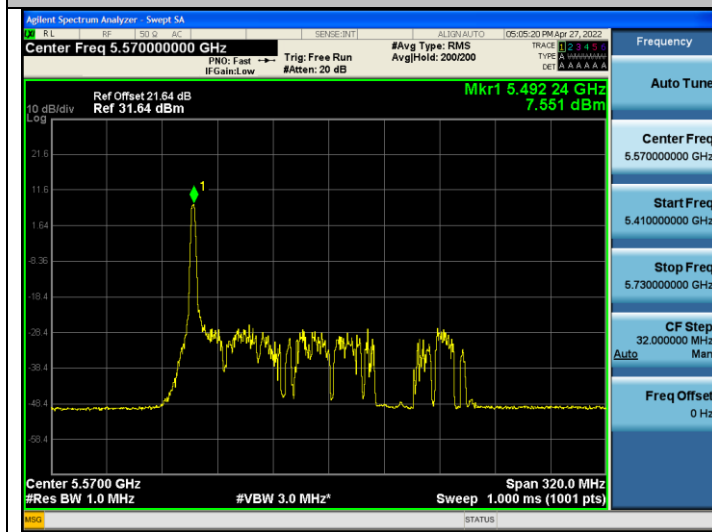
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.454	0.025	6.479

Note:

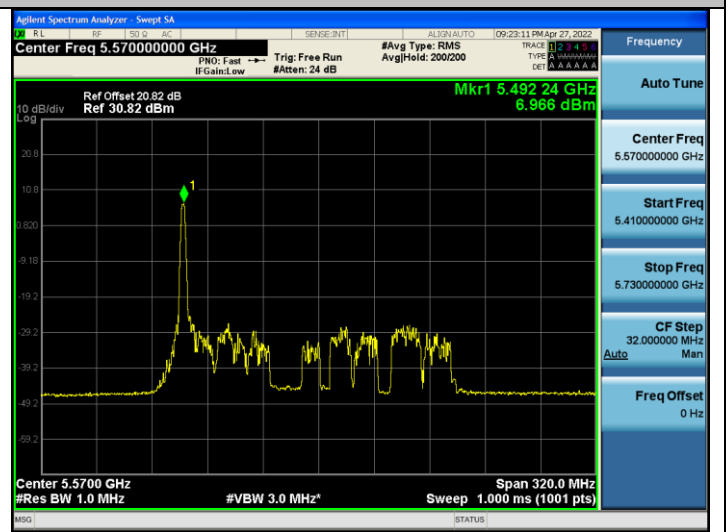
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

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

Ant1



Ant2



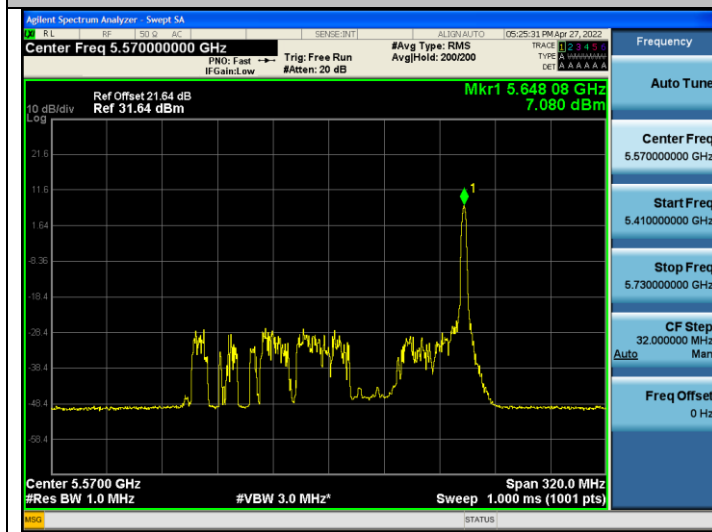
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
10.279	0.025	10.304

Note:

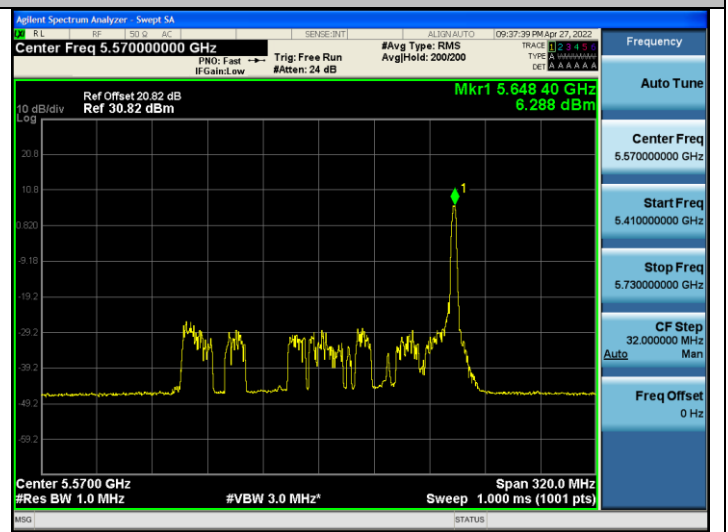
Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

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

Ant1



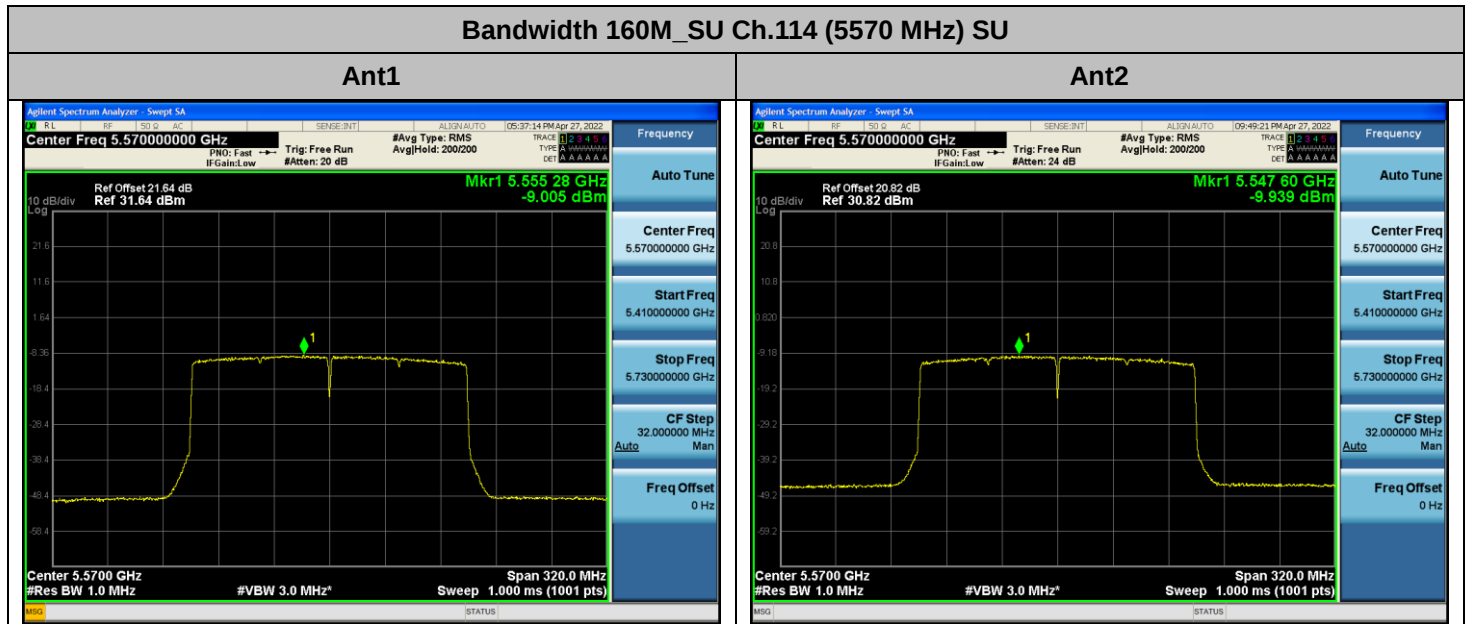
Ant2



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.713	0.025	9.738

Note:

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



SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-6.437	0.012	-6.425

Note:

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

5. Straddle Channel

5.1 26dB Bandwidth

Note:

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

5.1.1 SISO Ant1

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

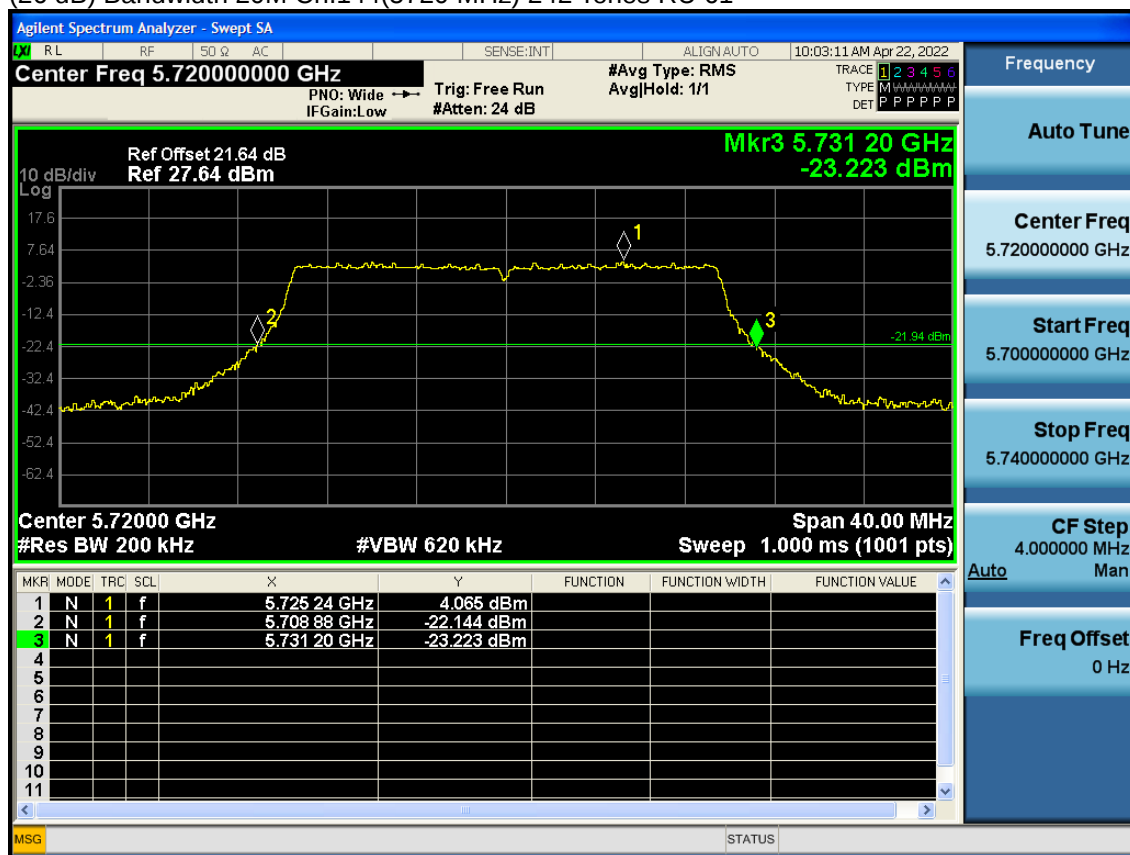


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5708.64	16.36

Note:

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

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

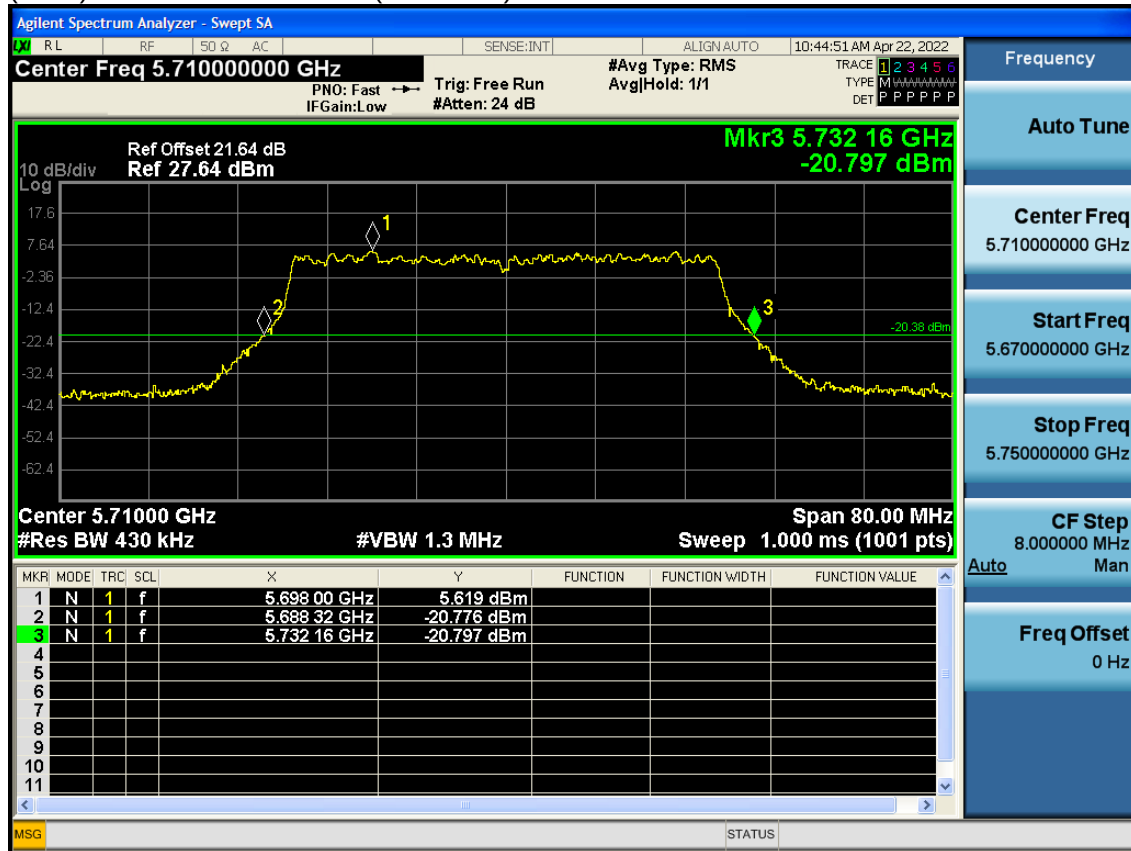


UNII 3	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5731.2	5725	6.20

Note:

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

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

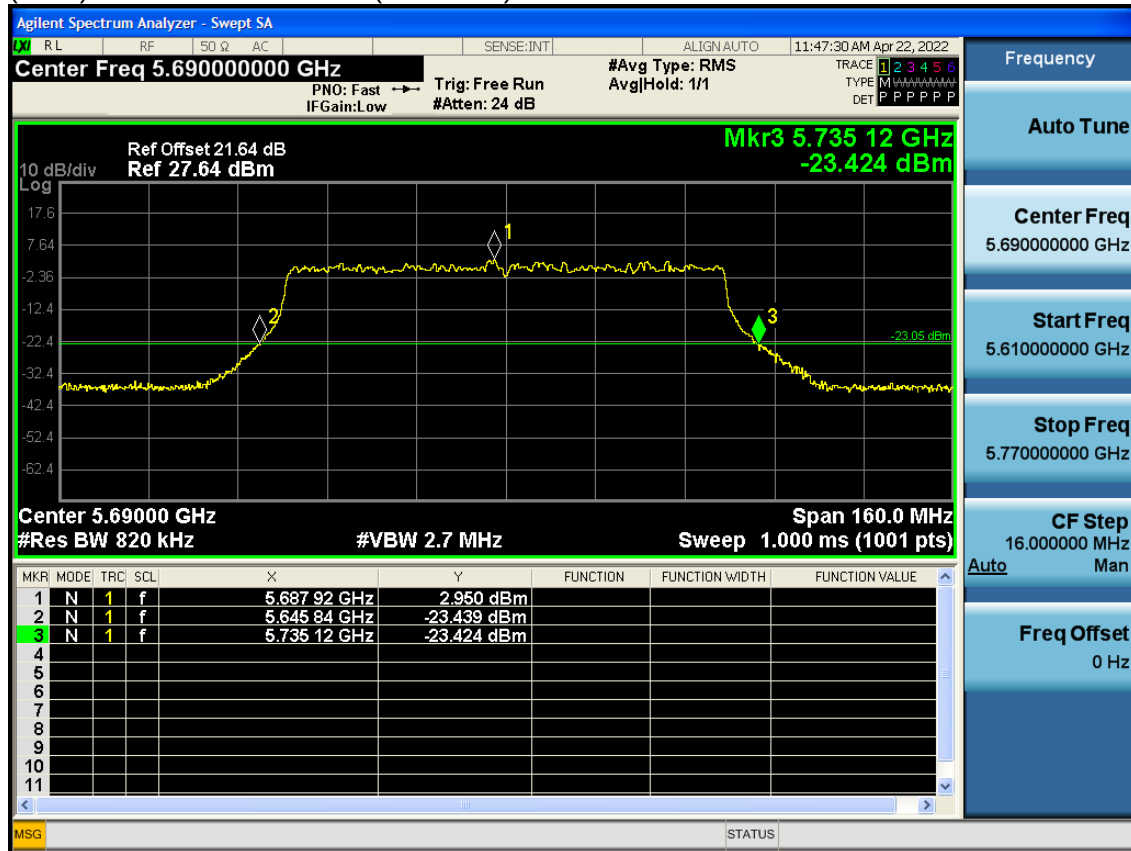


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5688.32	36.68
UNII 3	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5732.16	5725	7.16

Note:

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

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



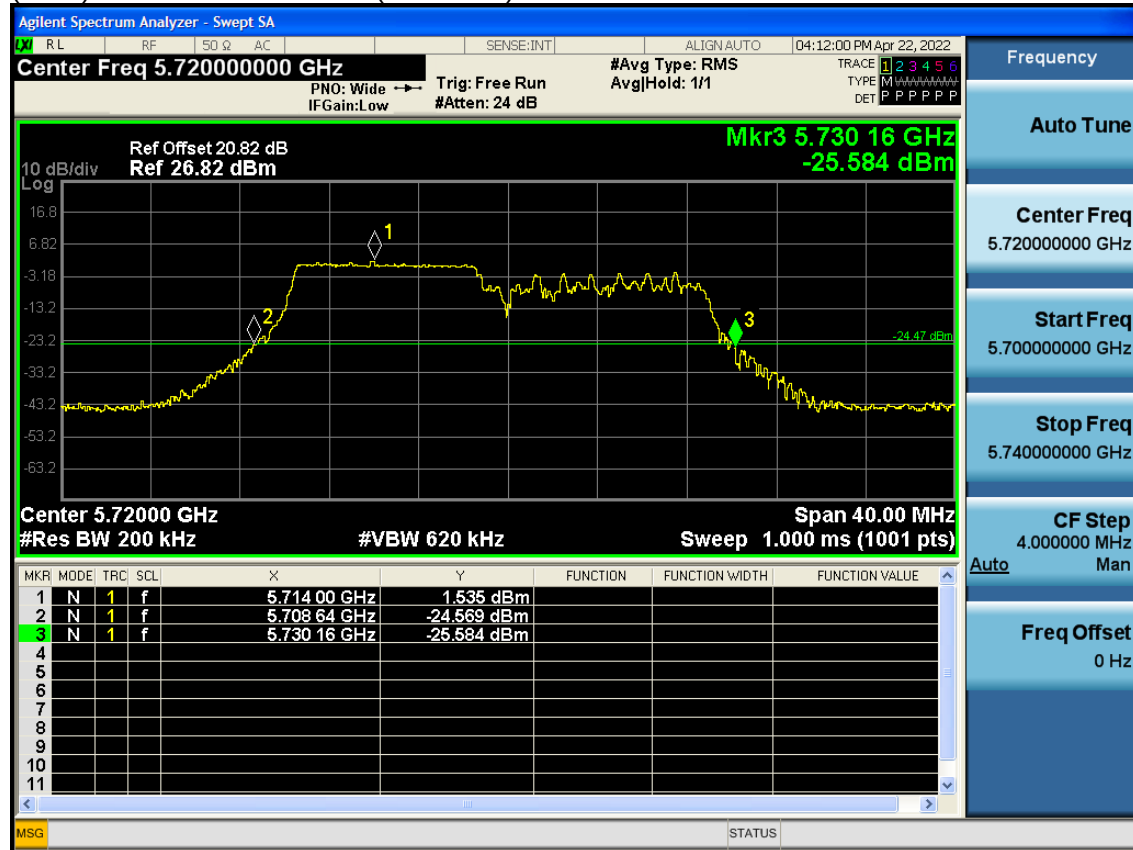
UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5645.84	79.16
UNII 3	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5735.12	5725	10.12

Note:

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

5.1.2 SISO Ant2

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



UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5708.64	16.36

Note:

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

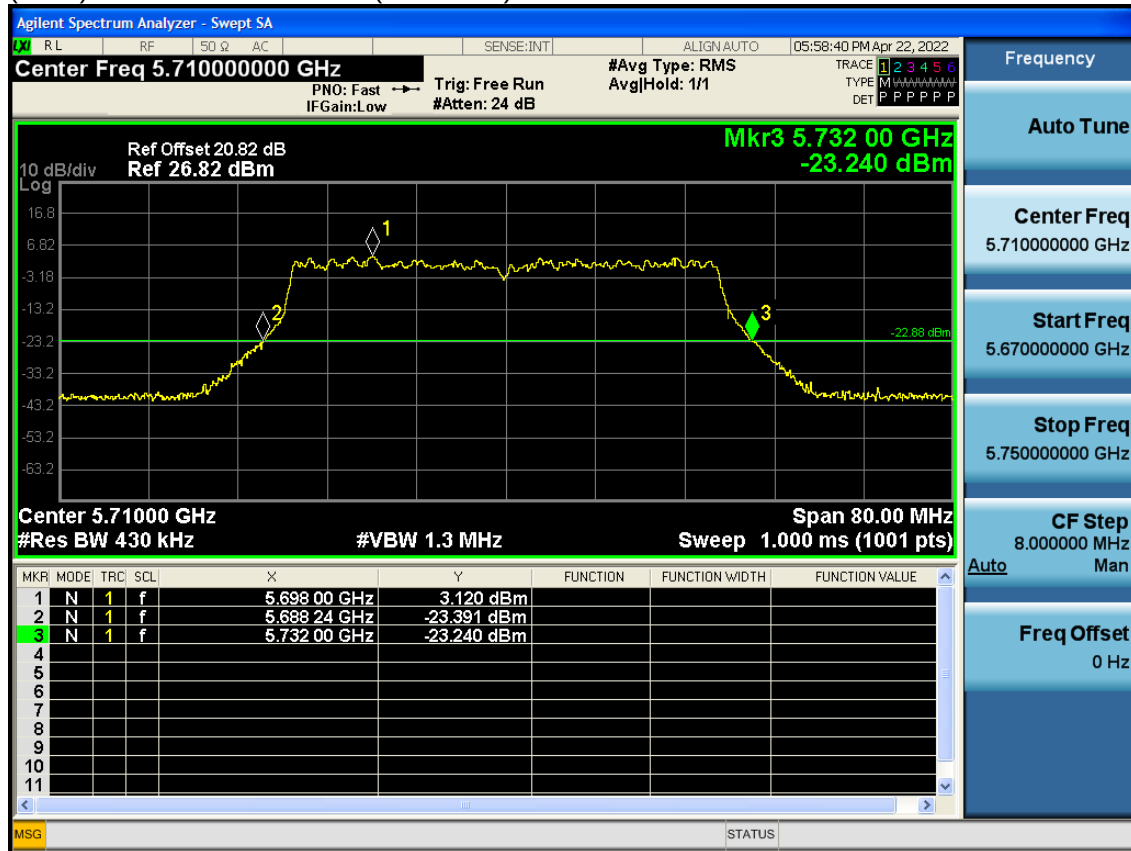
(26 dB) Bandwidth 20M Ch.144(5720 MHz) SU



UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5731.28	5725	6.28

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

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

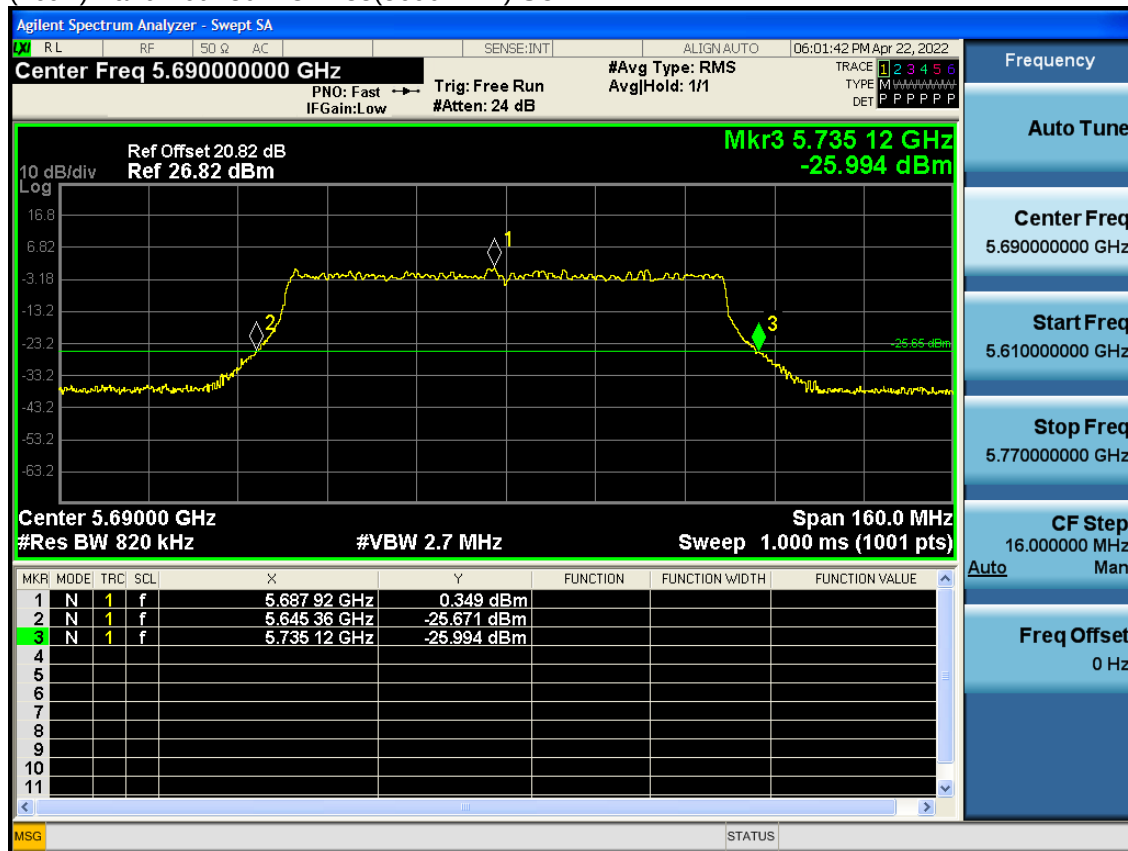


UNII 2C	Straddle Frequency [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725	5688.24	36.76
UNII 3	Measured Frequency [MHz]	Straddle Frequency [MHz]	26dB Bandwidth [MHz]
	5732	5725	7.00

Note:

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

(26dB) 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]
	5735.12	5725	10.12

Note:

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

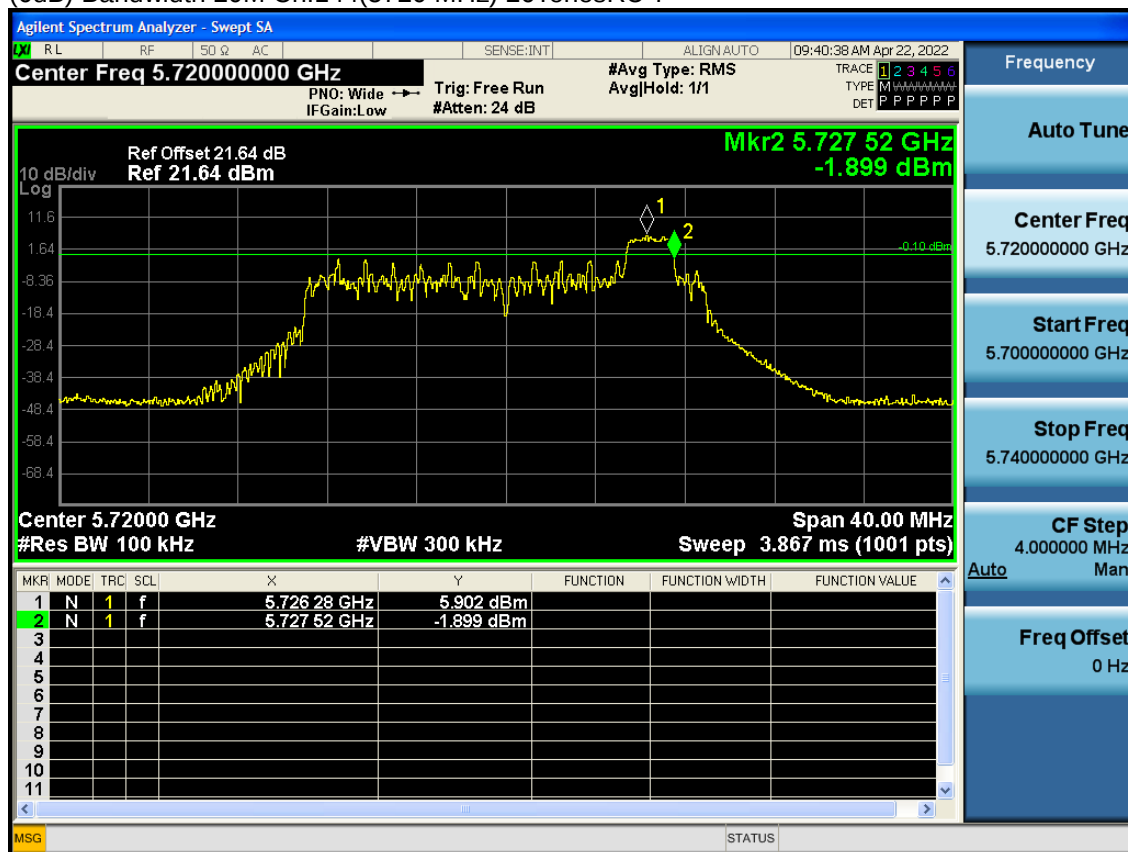
5.2 6dB Bandwidth

Note:

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

5.2.1 SISO Ant1

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

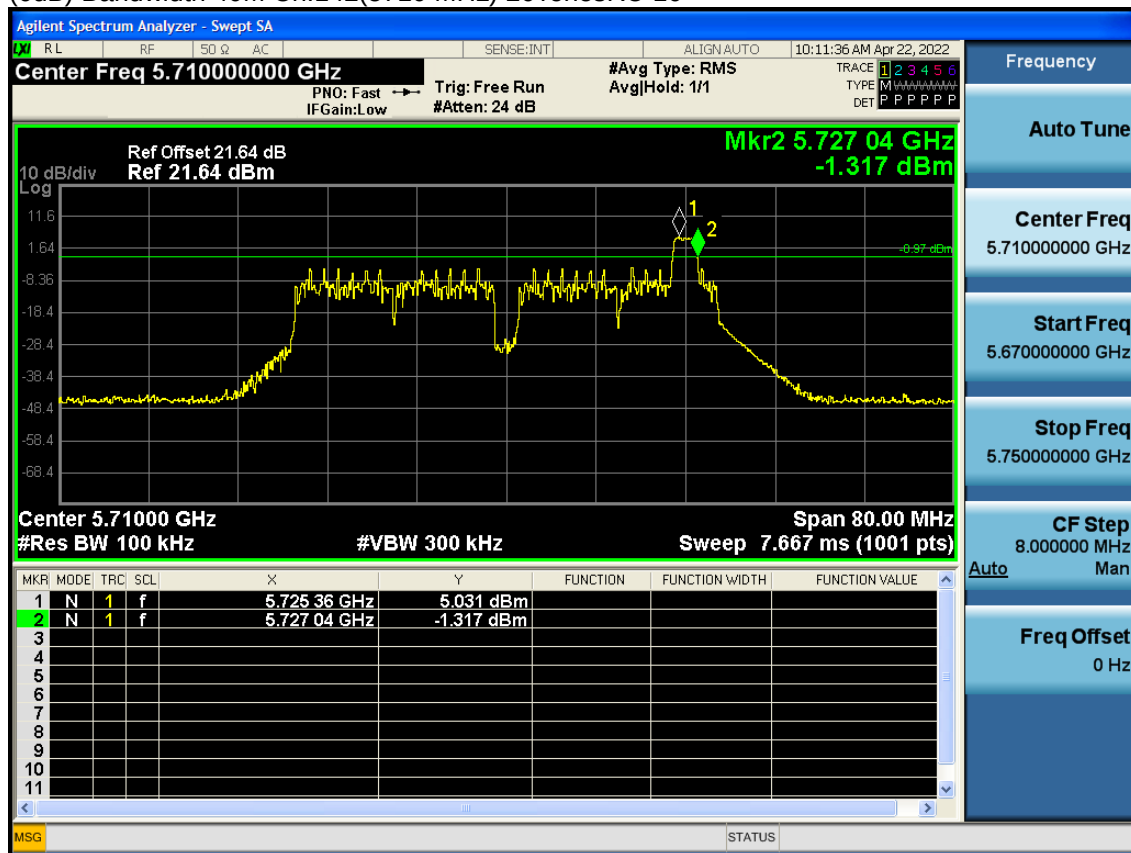


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

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

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

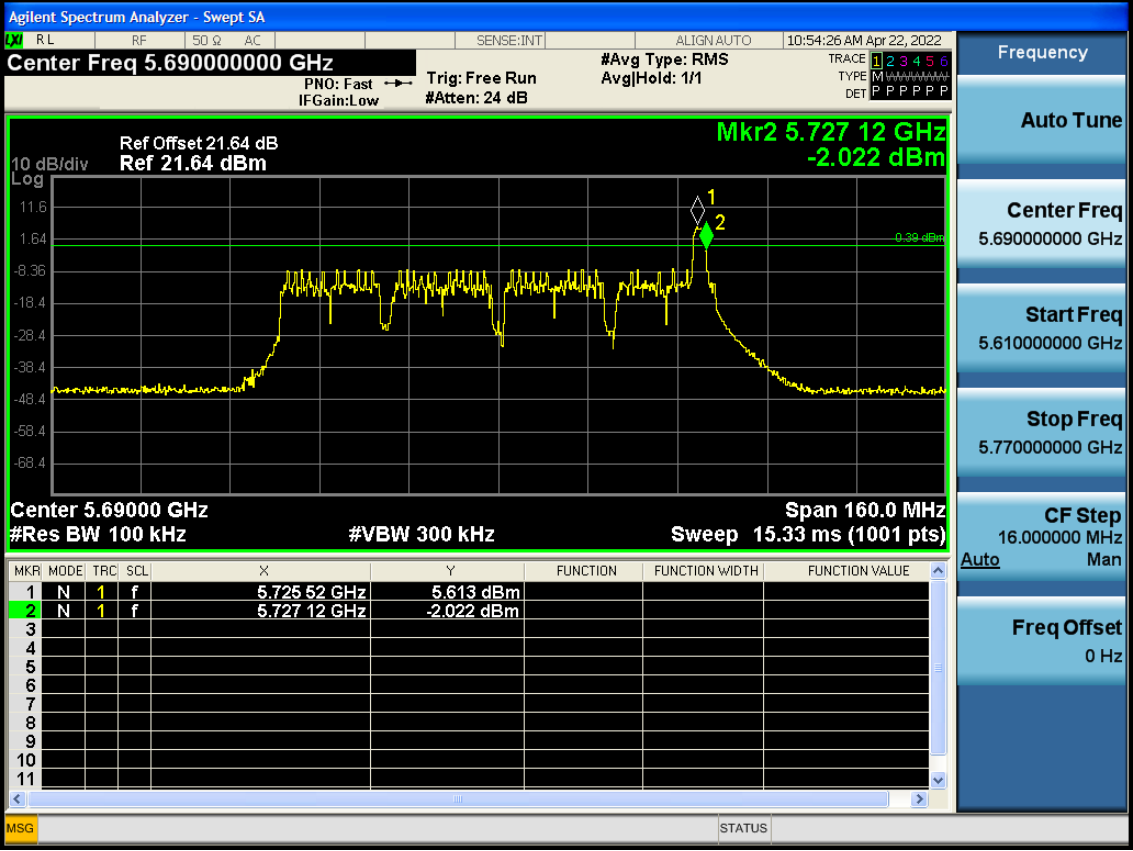


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

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

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

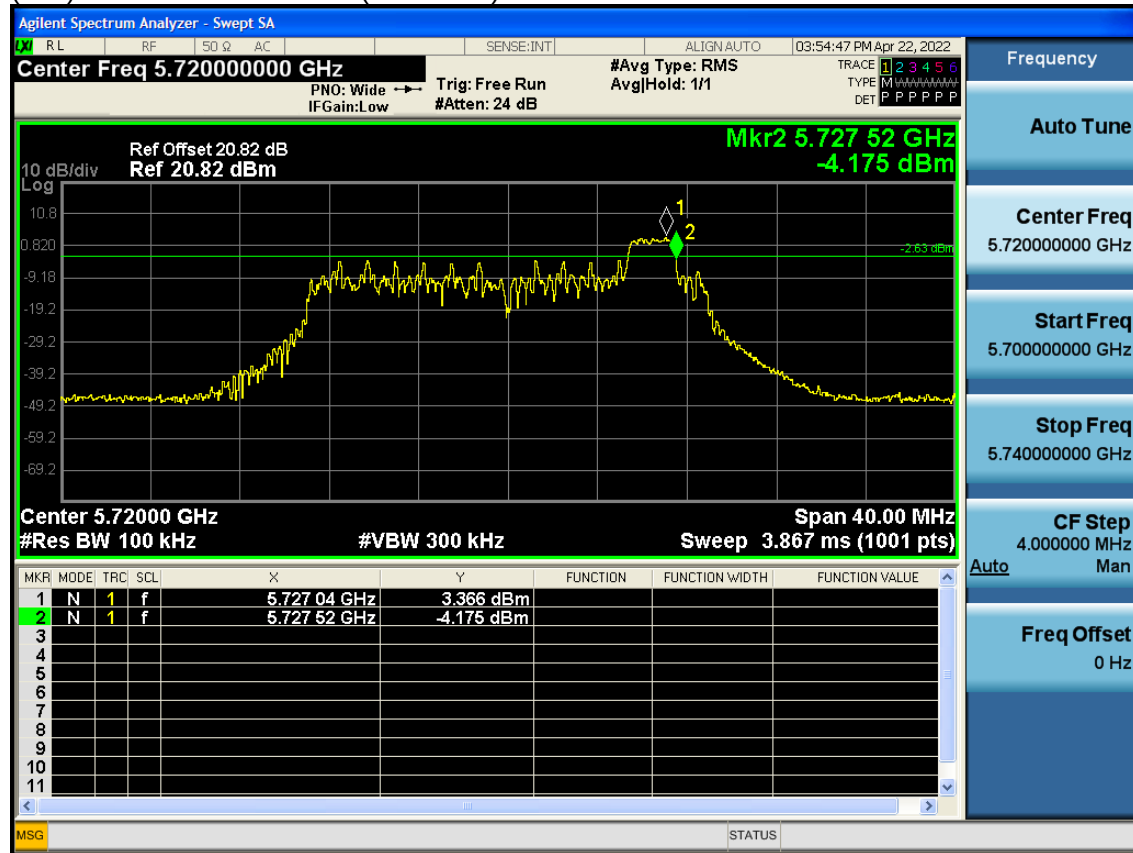


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.12	5725	2.12

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

5.2.2 SISO Ant2

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

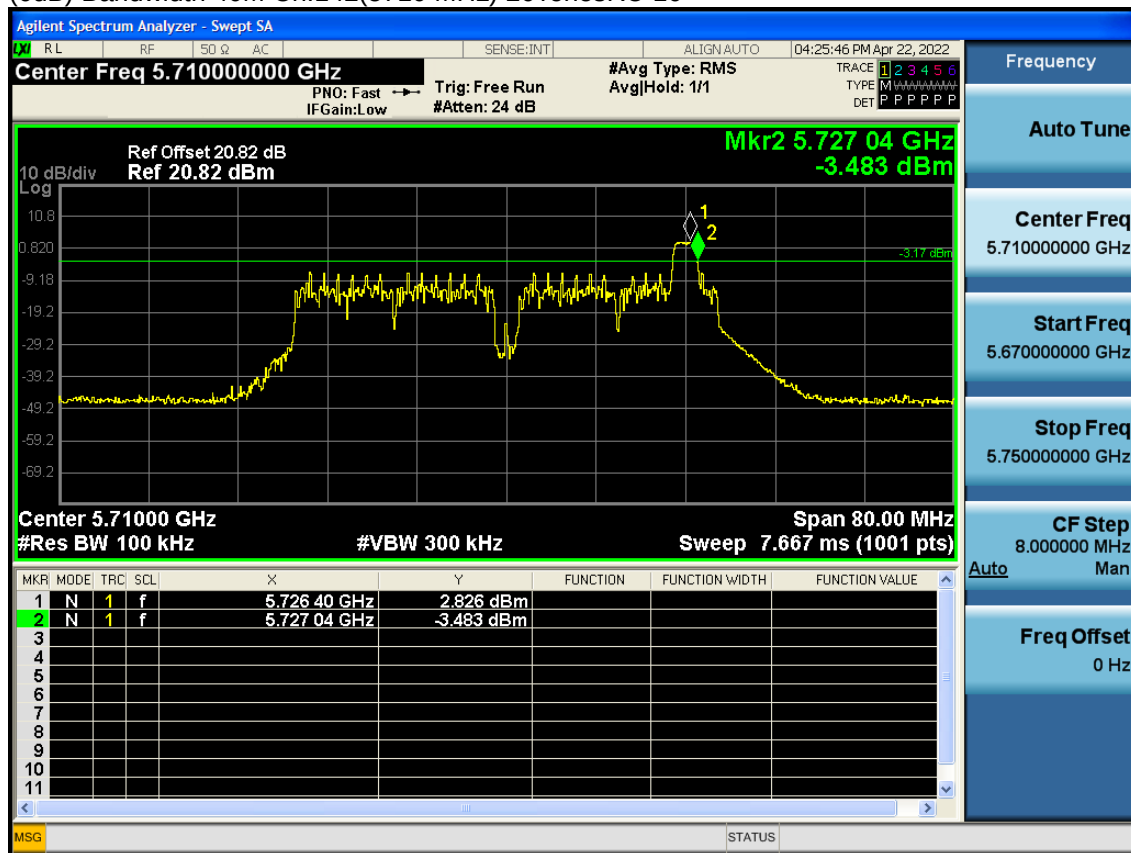


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725	2.52

Note:

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

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

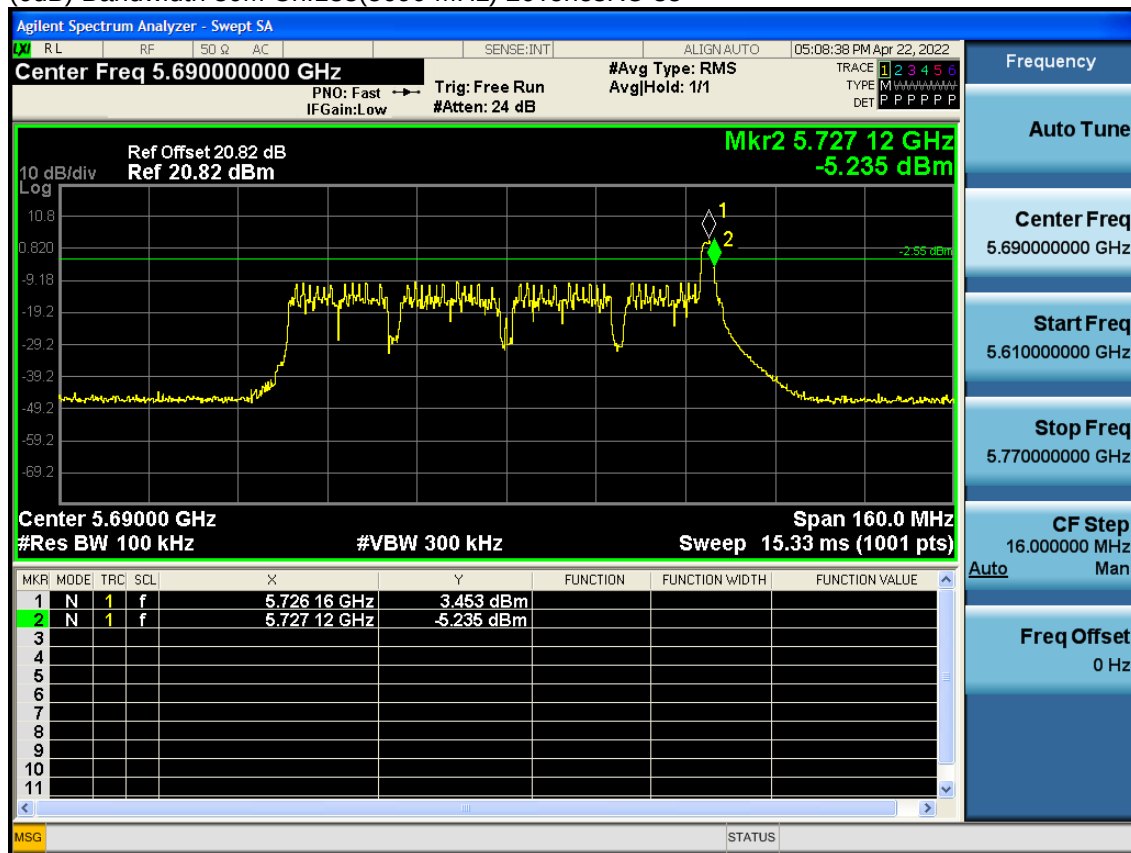


Measured Frequency [MHz]	Straddle Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725	2.04

Note:

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

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



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

Note:

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

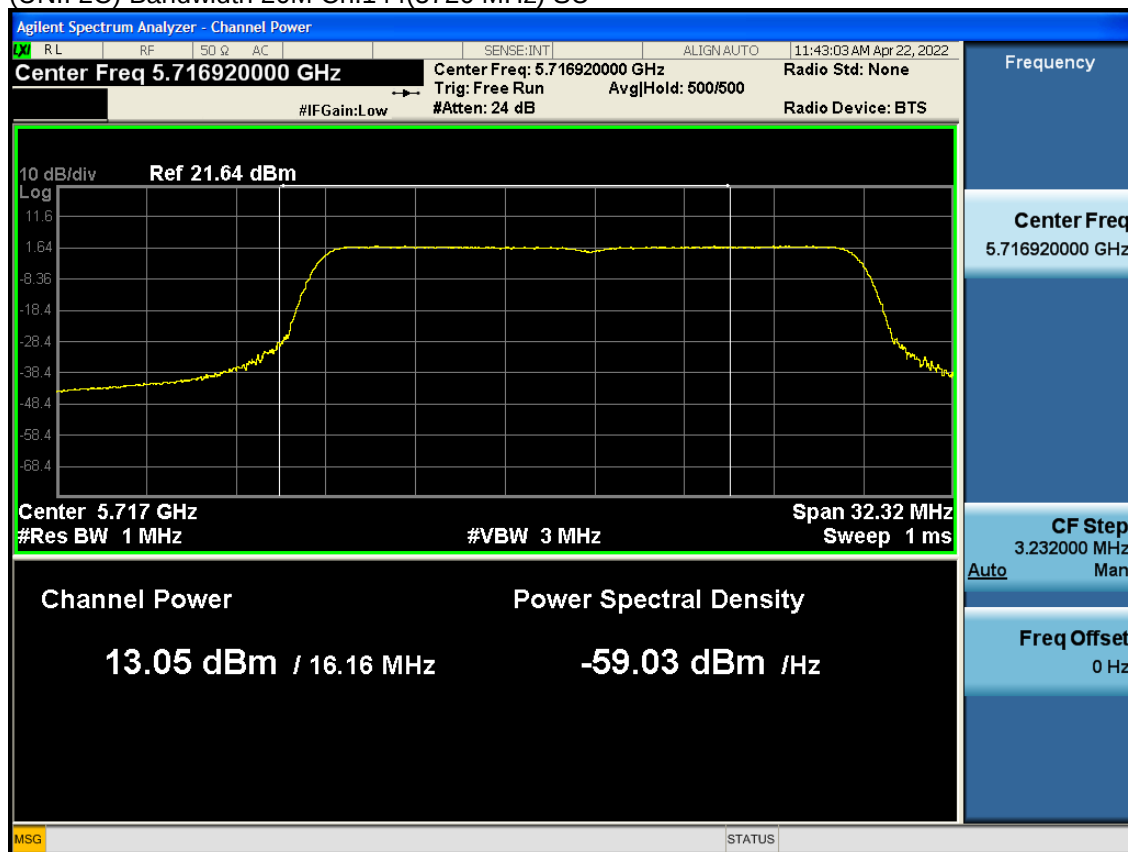
5.3 Output Power

Note:

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

5.3.1 SISO Ant1

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

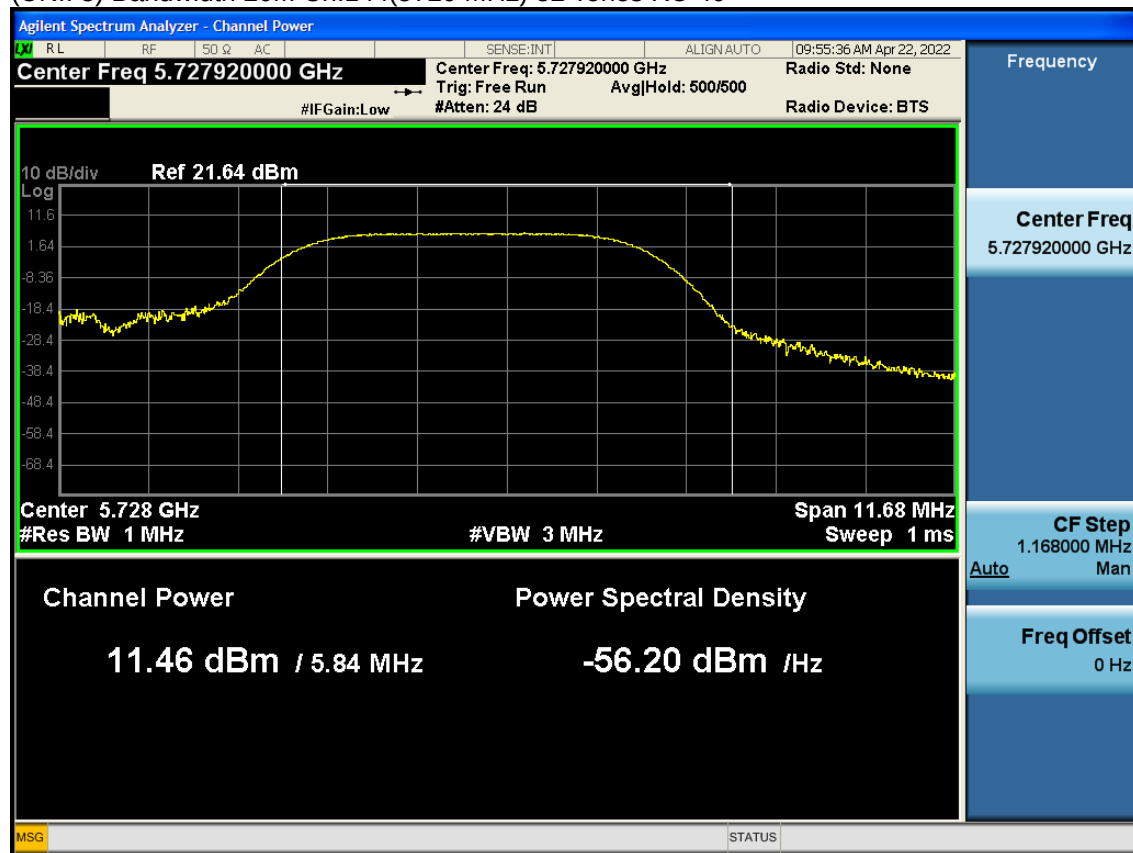


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.05	0.113	13.16

Note:

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

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

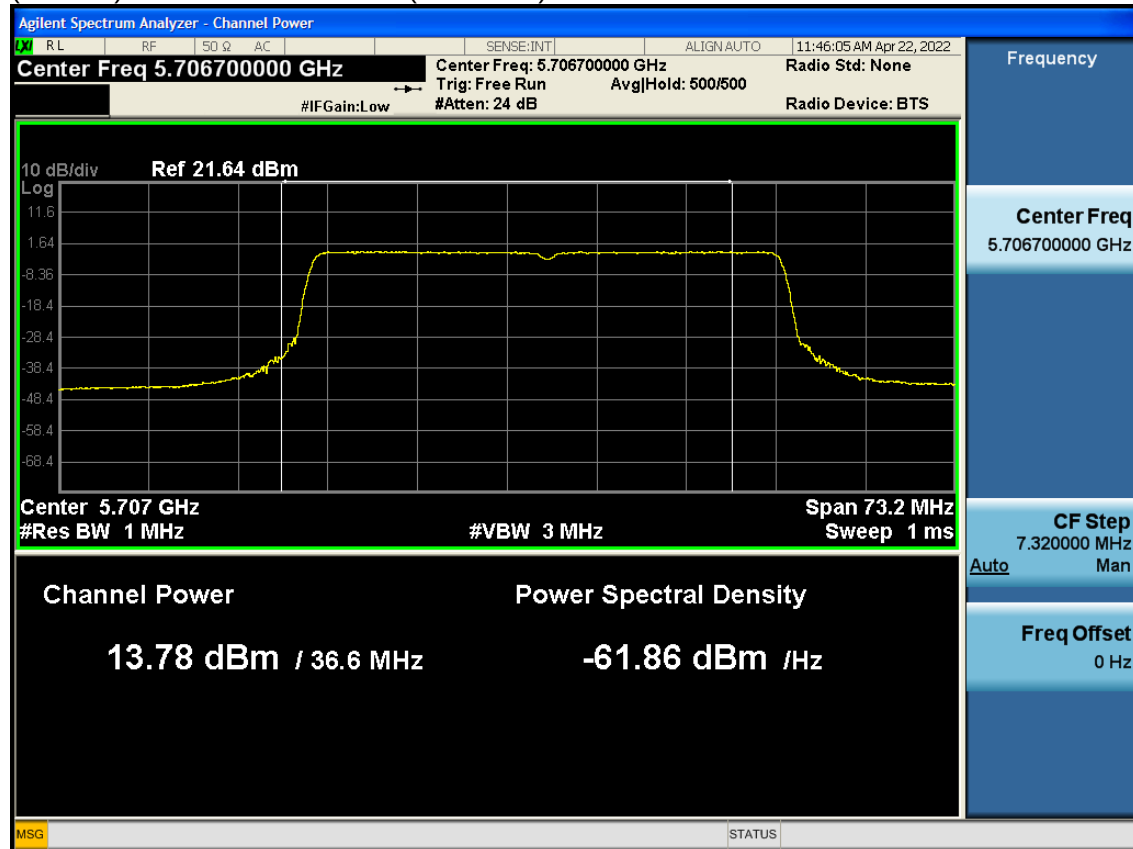


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.46	0.030	11.49

Note:

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

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

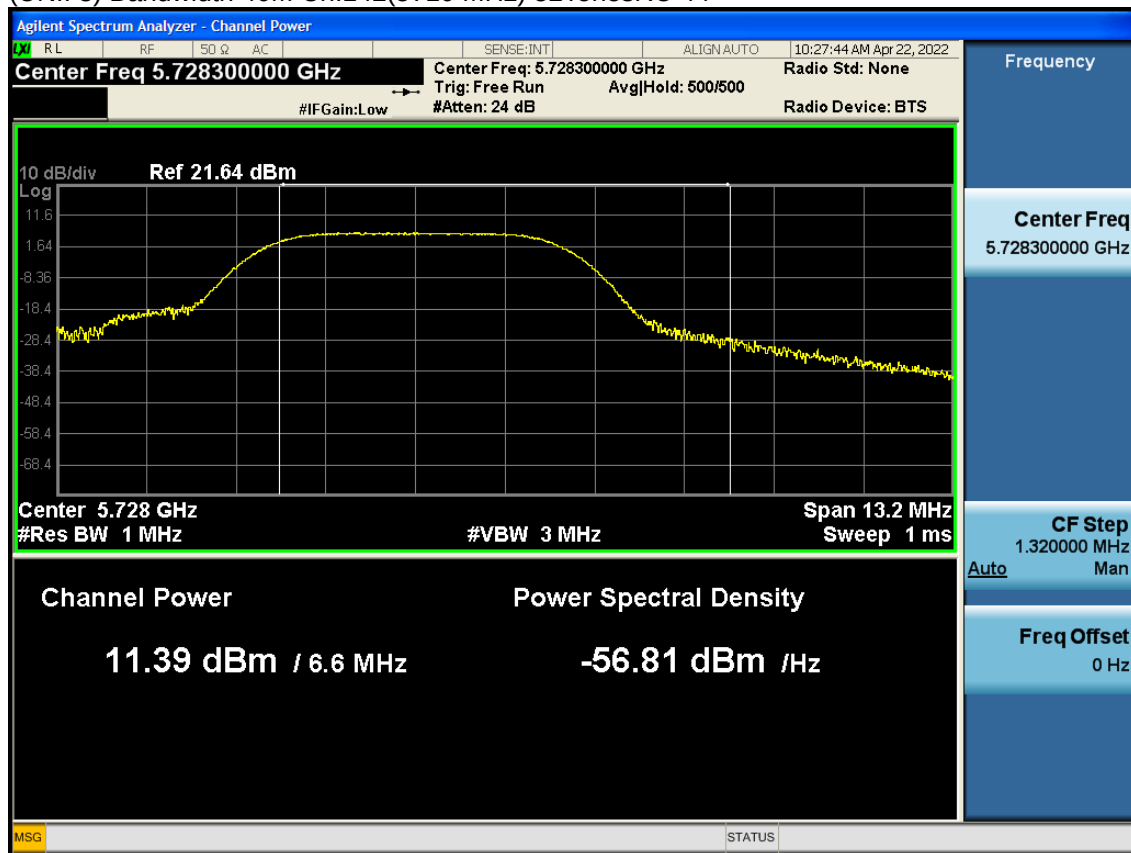


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
13.78	0.197	13.97

Note:

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

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

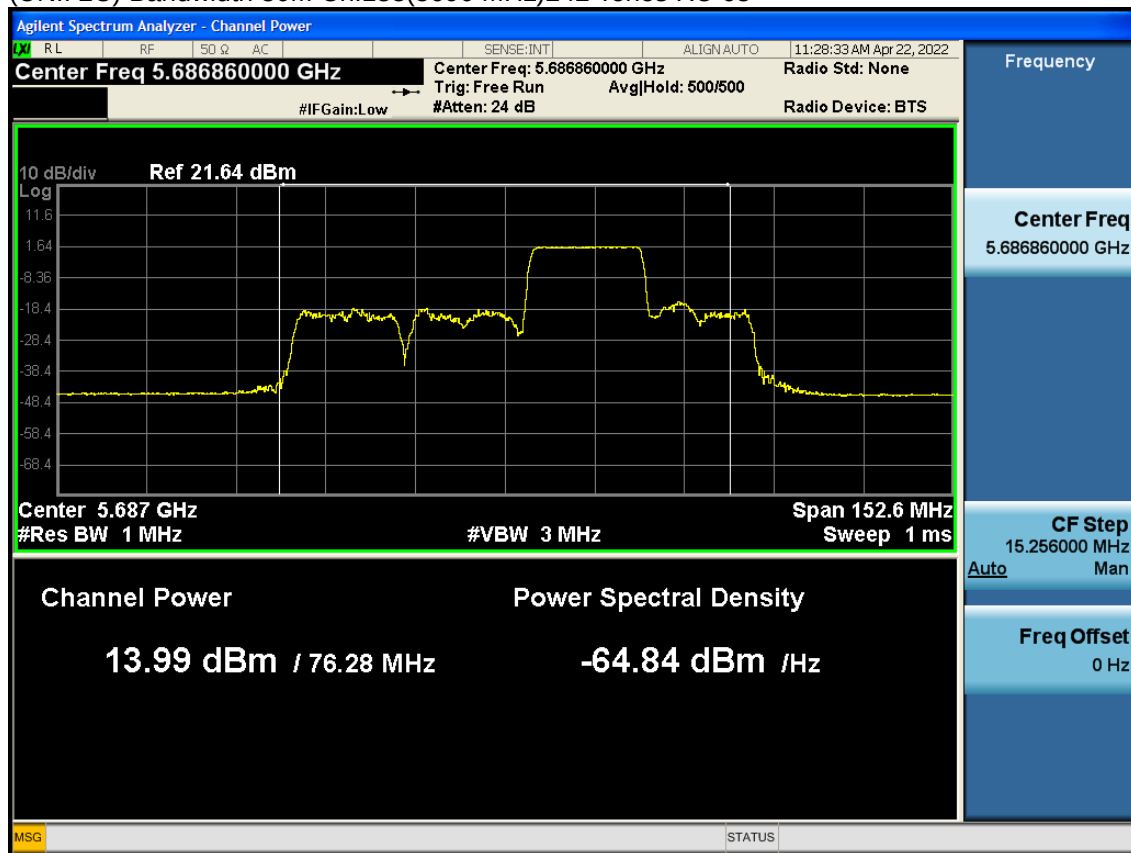


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.39	0.030	11.42

Note:

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

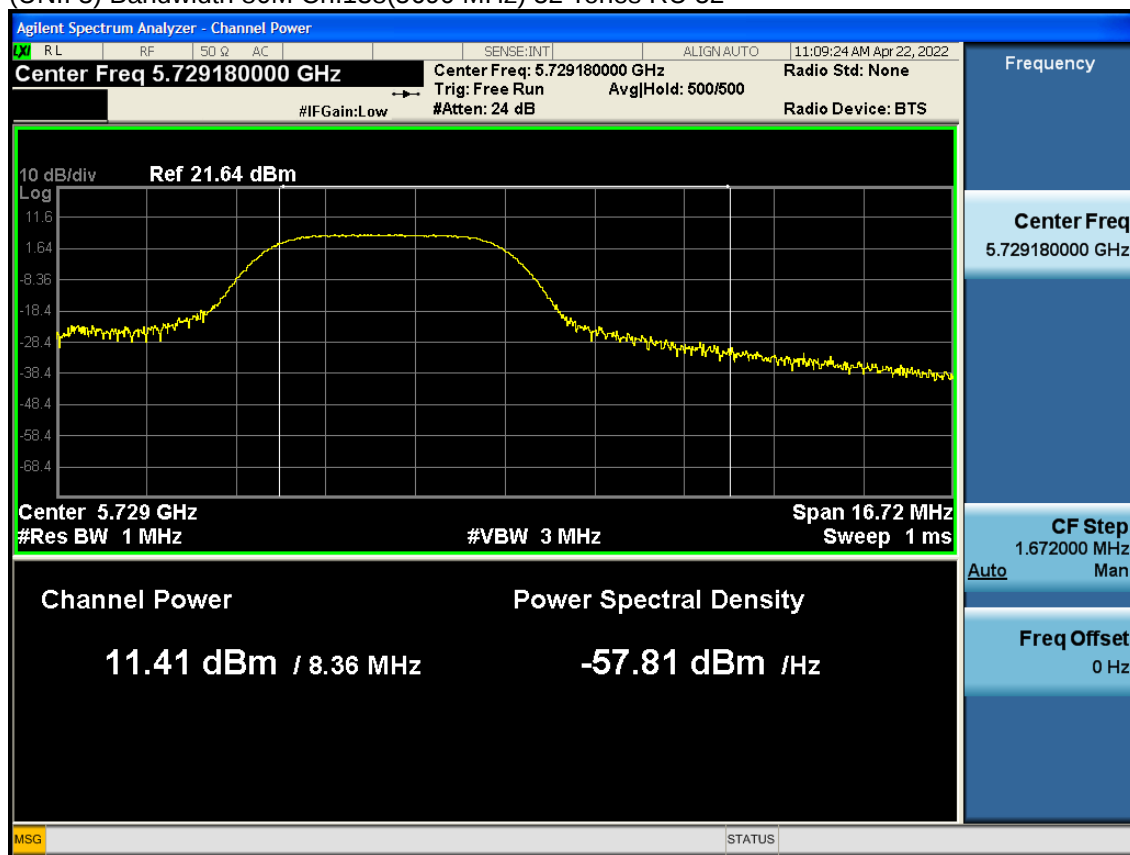
(UNII 2C) Bandwidth 80M Ch.138(5690 MHz)242 Tones RU 63



Note:

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

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

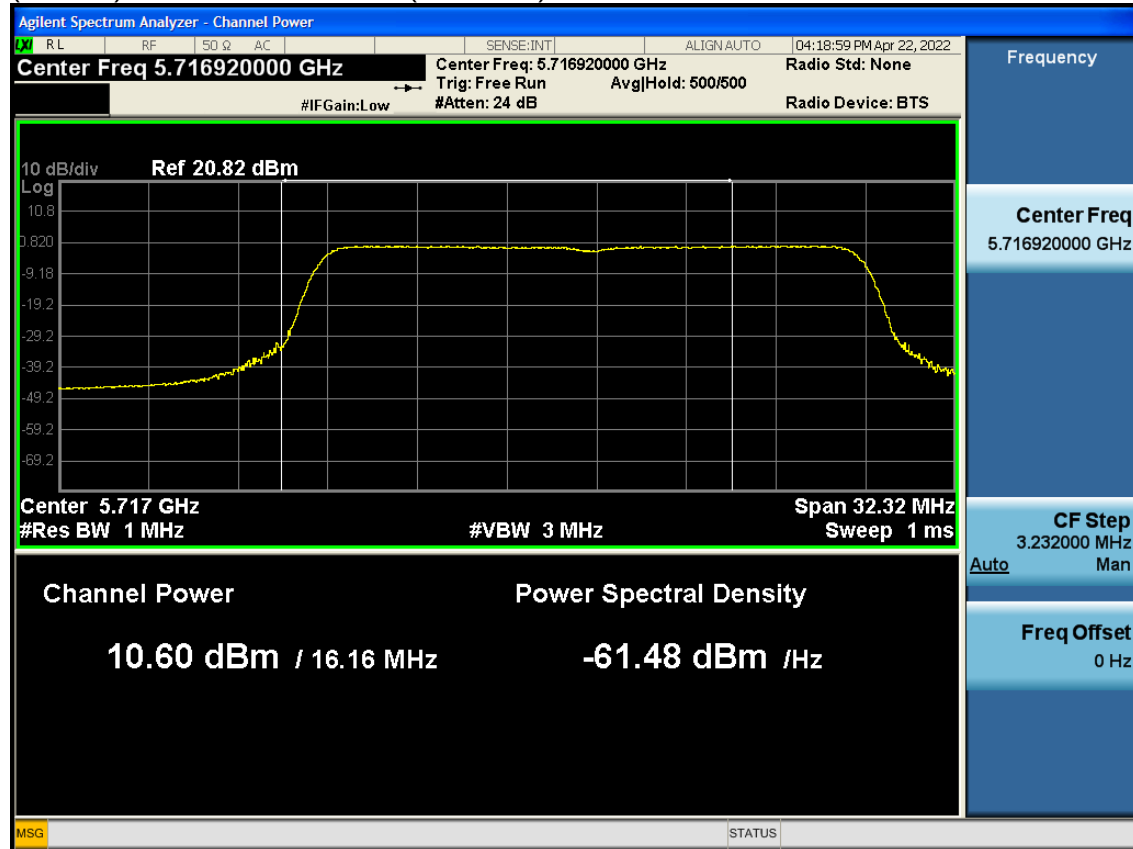


Note:

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

5.3.2 SISO Ant2

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

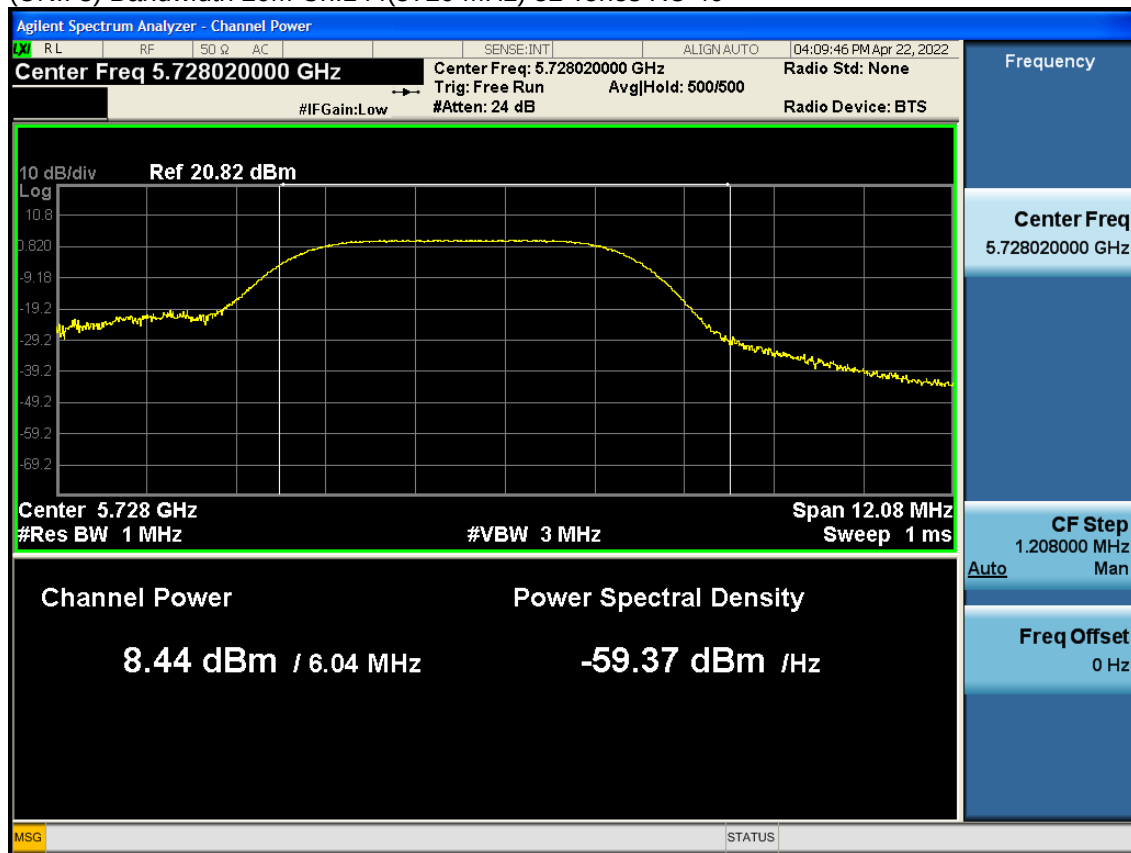


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.60	0.112	10.71

Note:

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

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

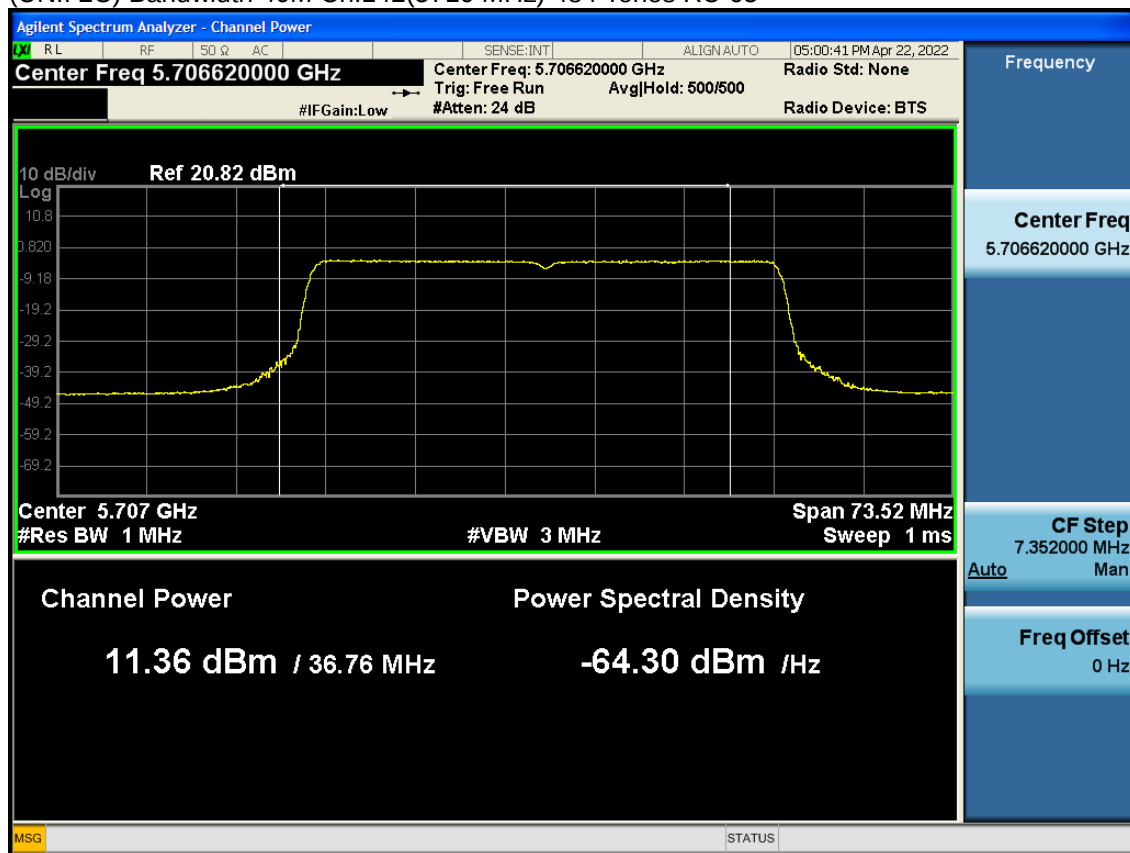


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.44	0.030	8.47

Note:

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

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

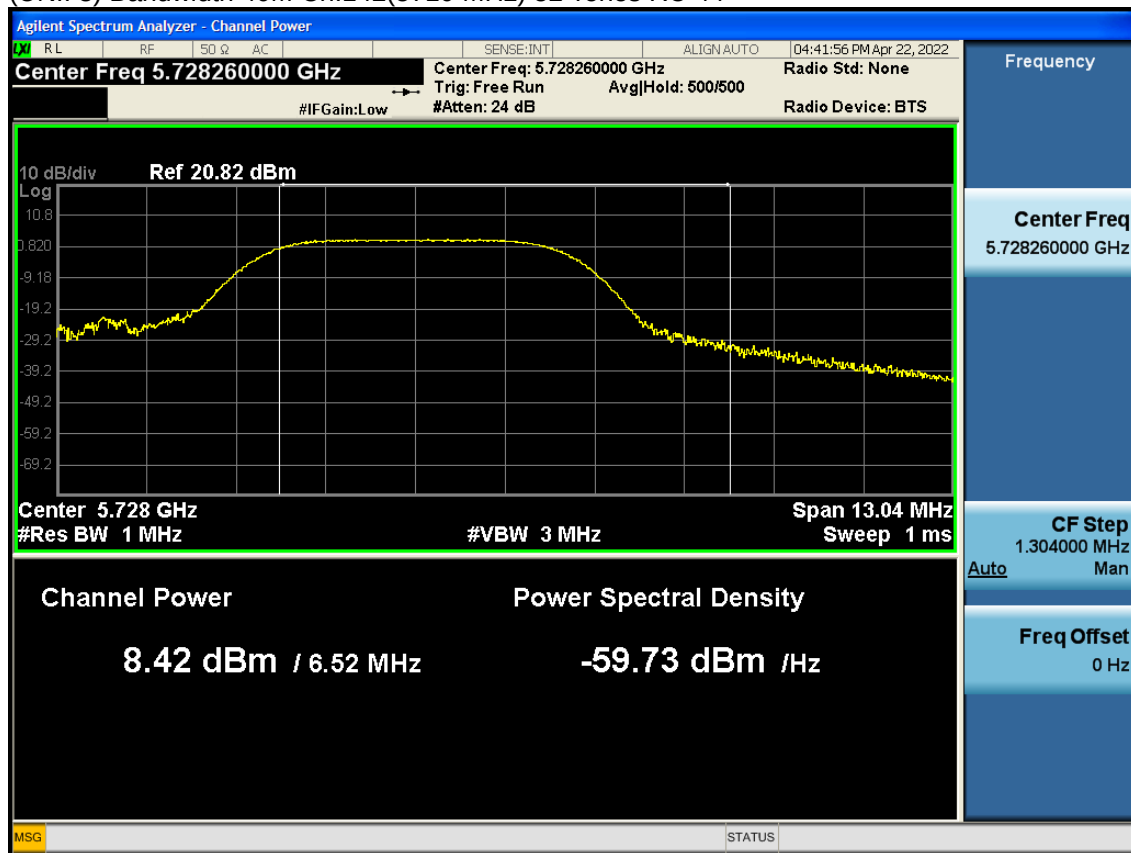


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.36	0.168	11.53

Note:

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

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

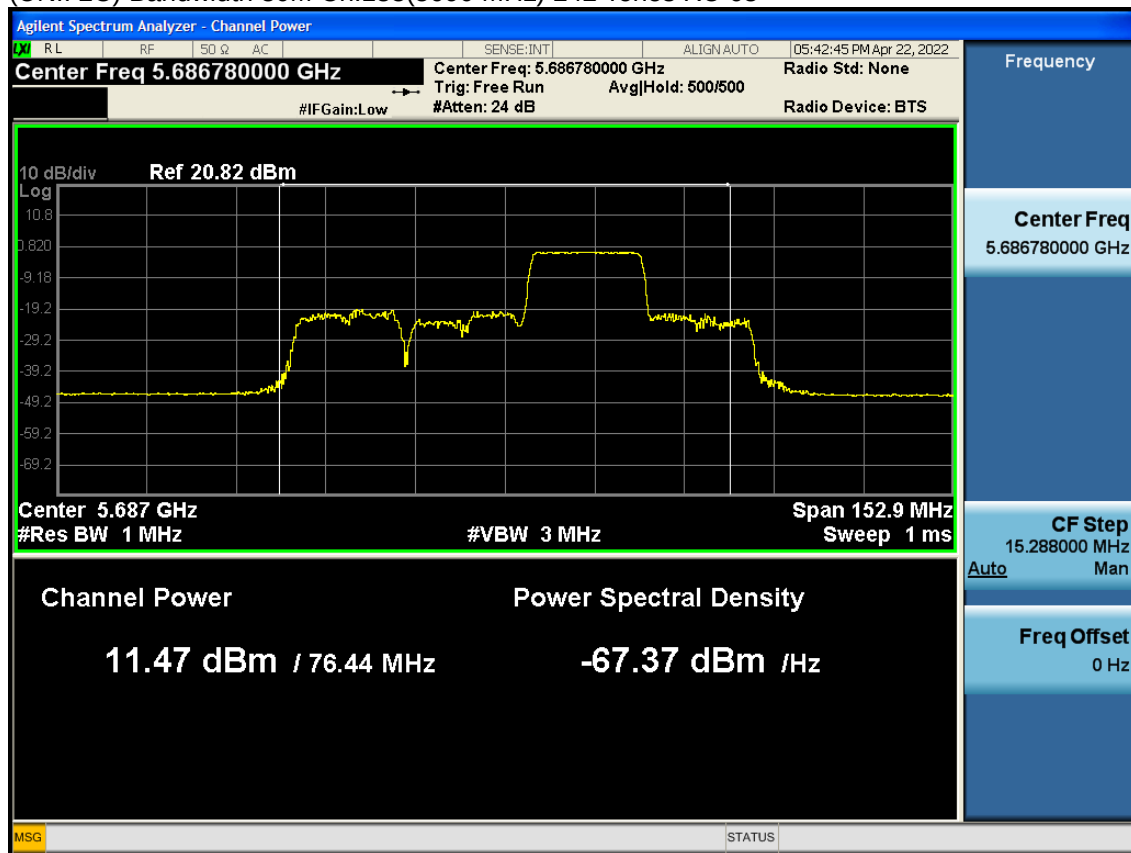


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.42	0.030	8.45

Note:

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

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

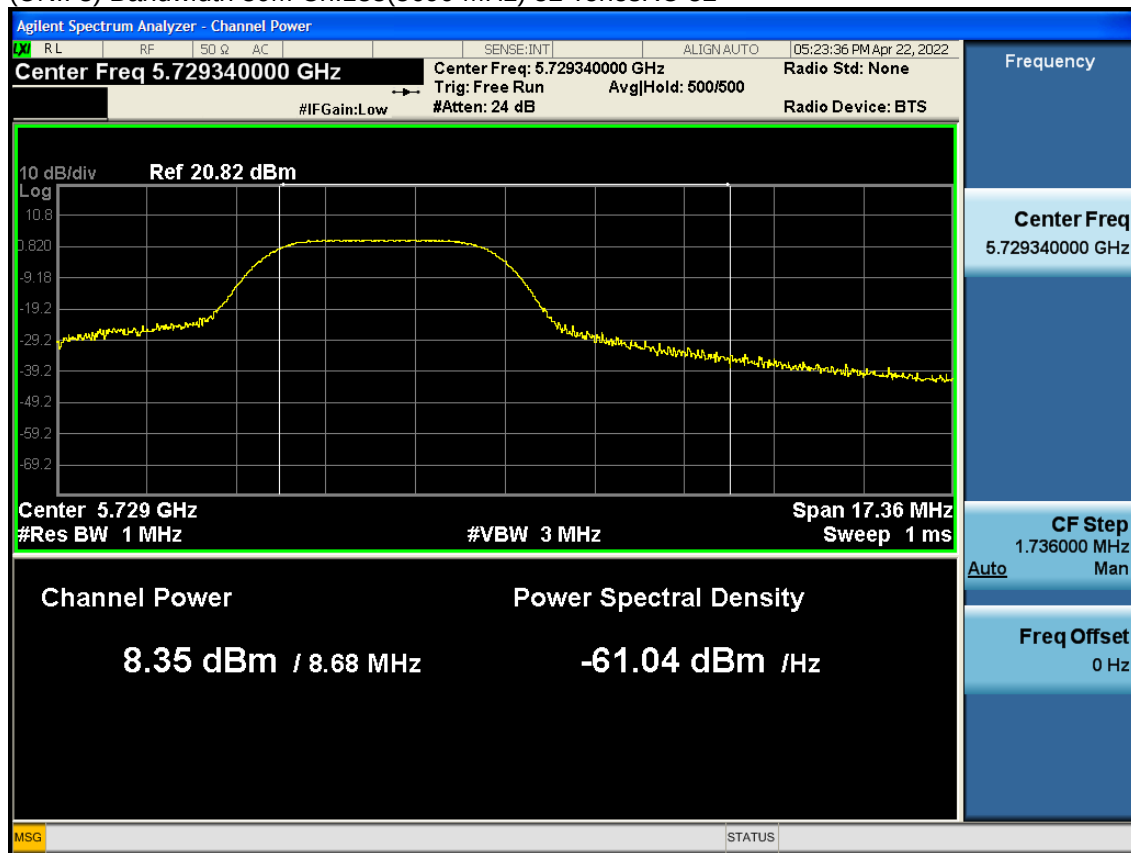


Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.47	0.097	11.57

Note:

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.35	0.025	8.38

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 SISO Ant1

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

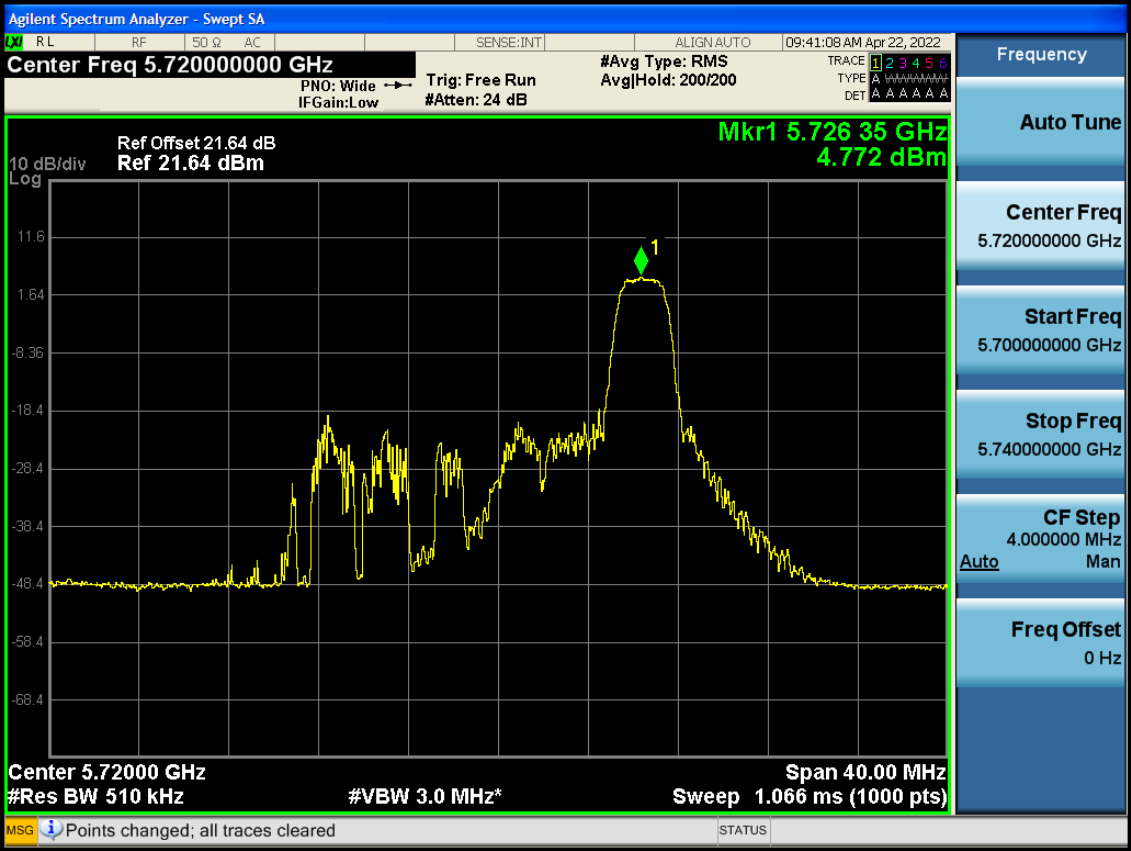


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.414	0.030	7.444

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)
4.772	0.030	4.802

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

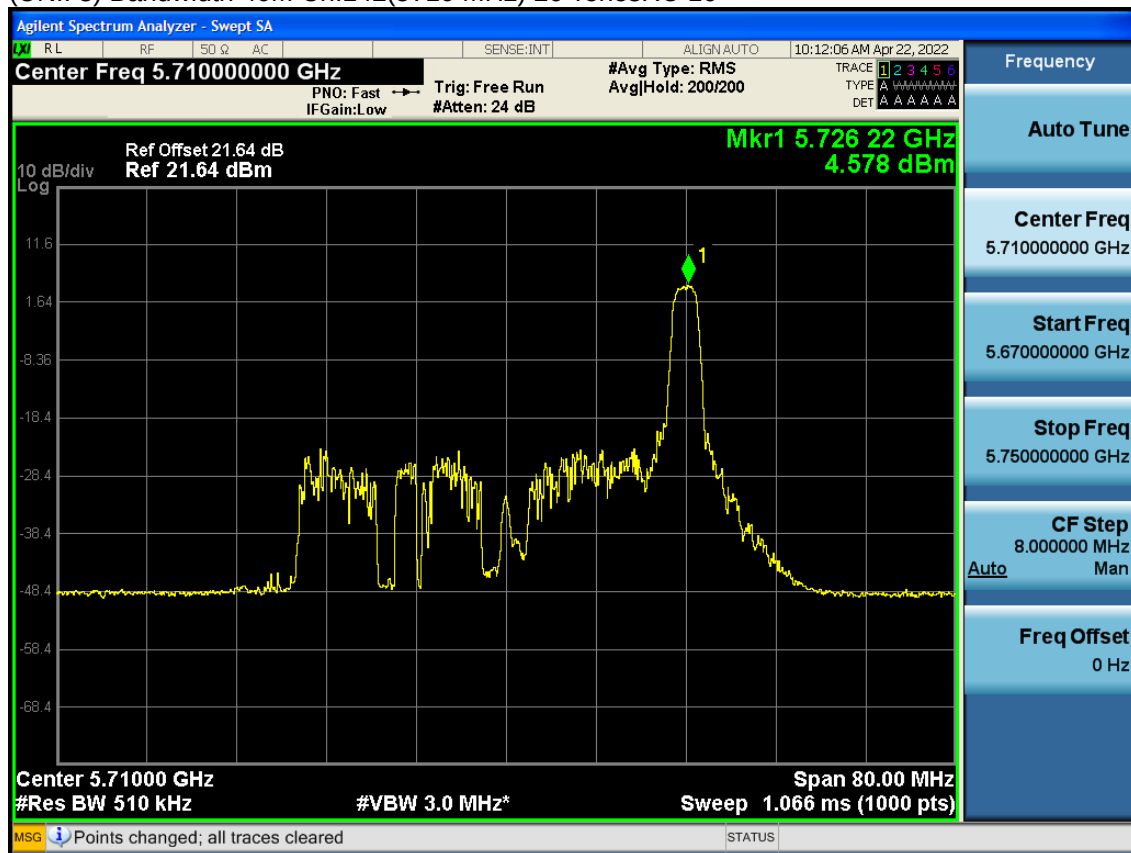
(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) 26 TonesRU 9



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.041	0.030	7.071

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.578	0.030	4.608

Note:

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

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



Note:

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.163	0.025	4.188

Note:

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

5.4.2 SISO Ant2

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

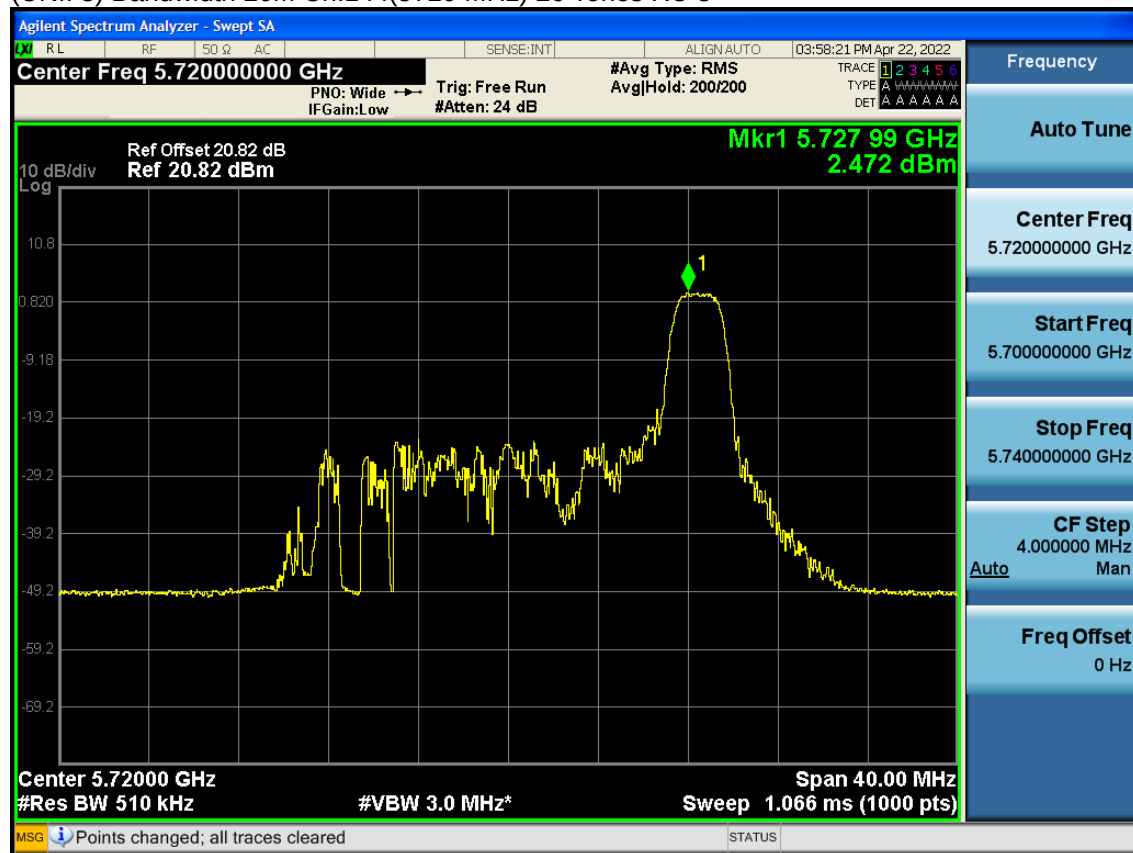


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.221	0.030	5.251

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)
2.472	0.030	2.502

Note:

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
4.838	0.030	4.868

Note:

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

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

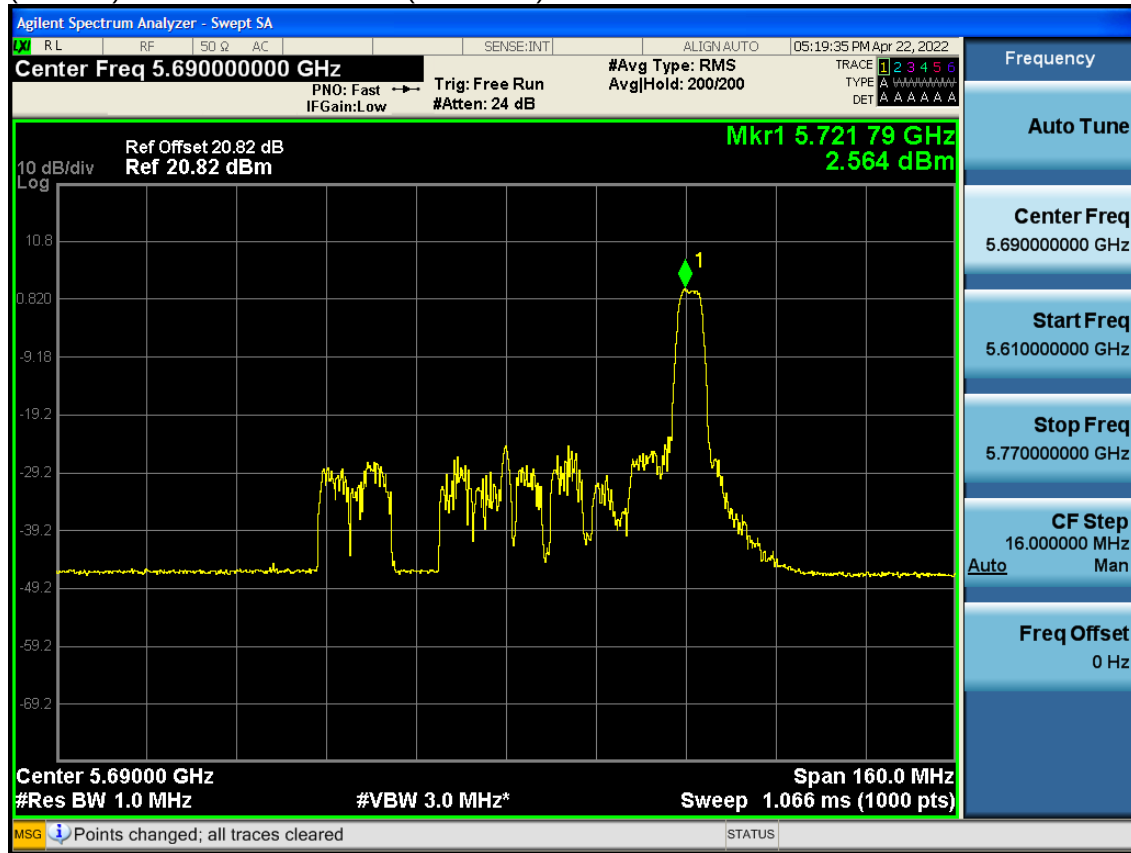


Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
2.398	0.030	2.428

Note:

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
2.564	0.025	2.589

Note:

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

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



Measured Value (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
1.814	0.025	1.839

Note:

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