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Appendix B: 802.11ax Test Plot

FCC ID
A3LSMA736B

REVISION HISTORY

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	February 15, 2022	Initial Release

Note:

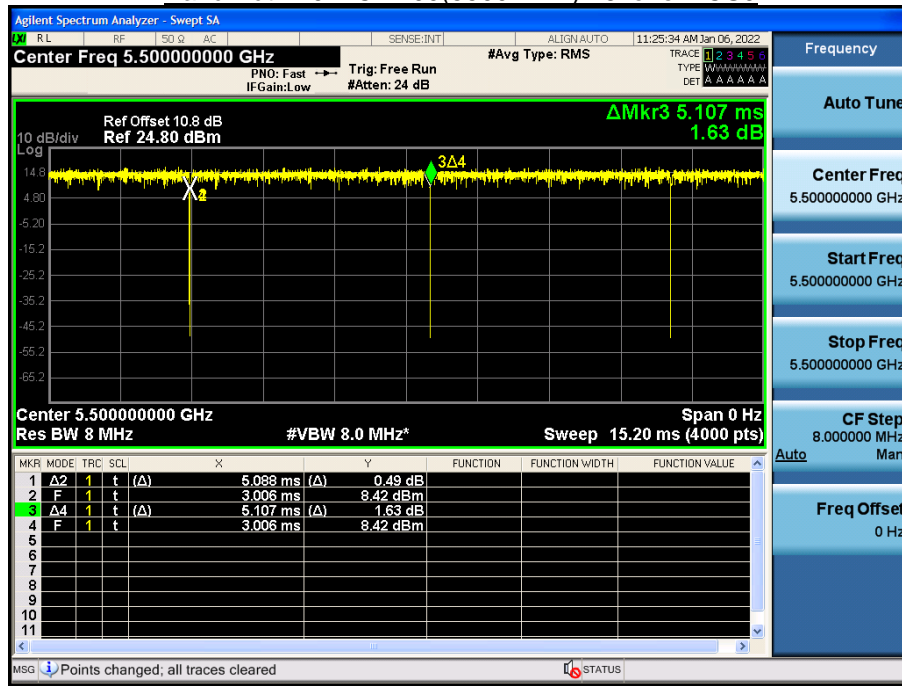
In order to simplify the report, attached plots were only the most lowest datarate.

1. Duty Cycle

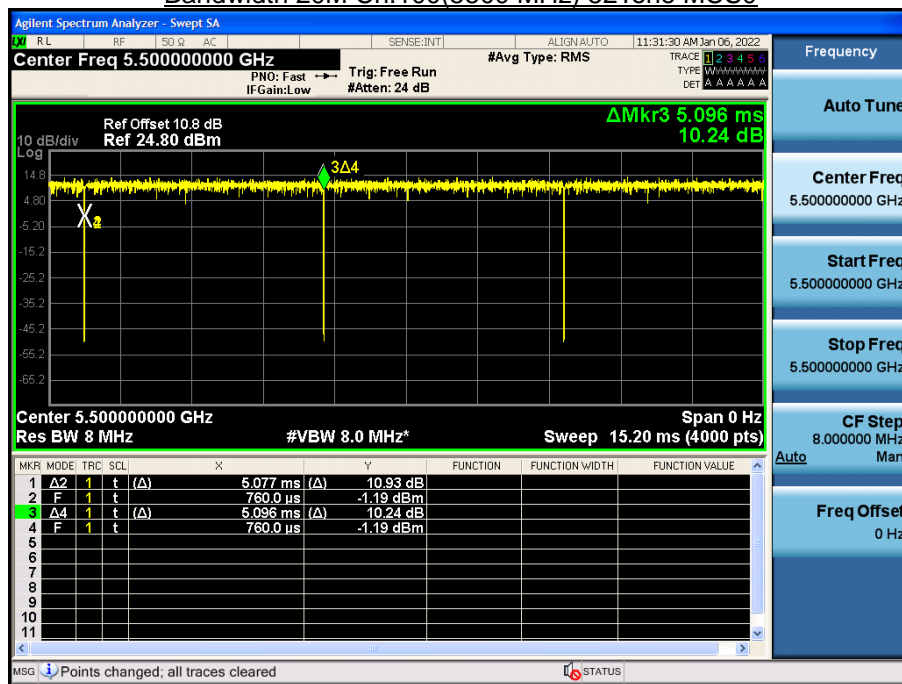
Note:

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

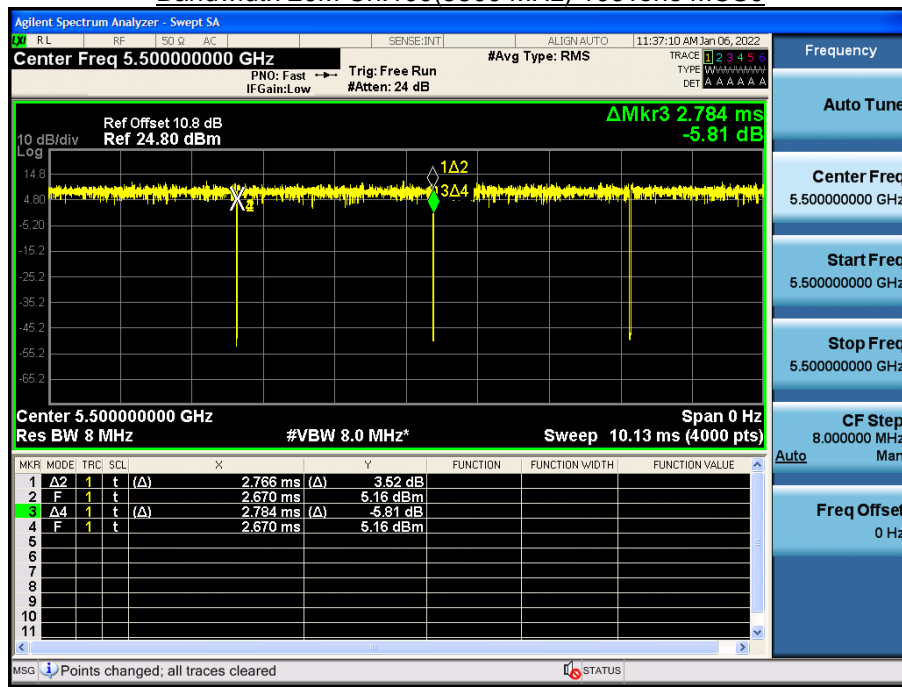
Bandwidth 20M Ch.100(5500 MHz) 26Tone MCS0



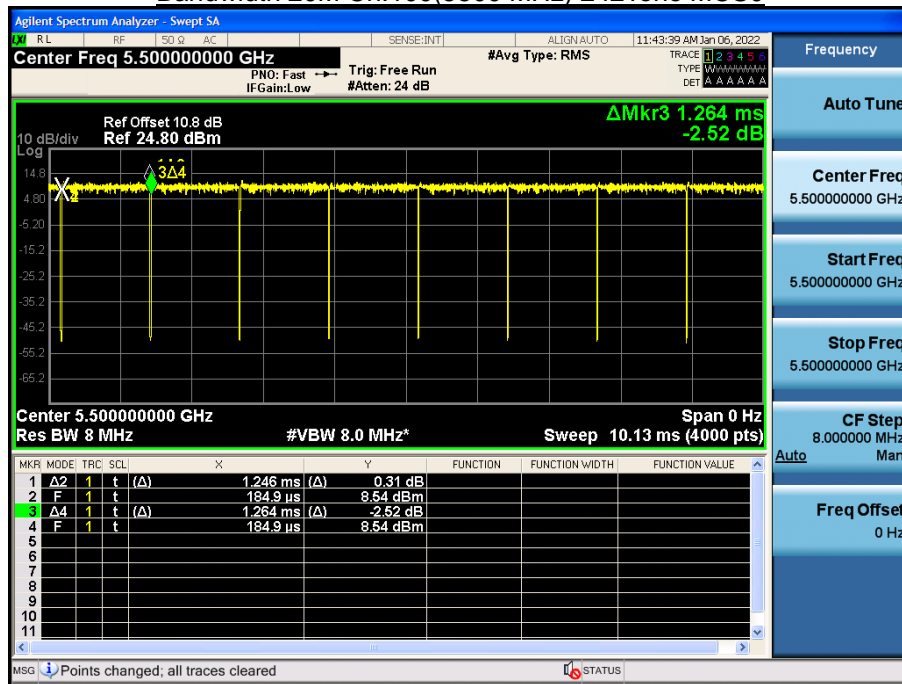
Bandwidth 20M Ch.100(5500 MHz) 52Tone MCS0



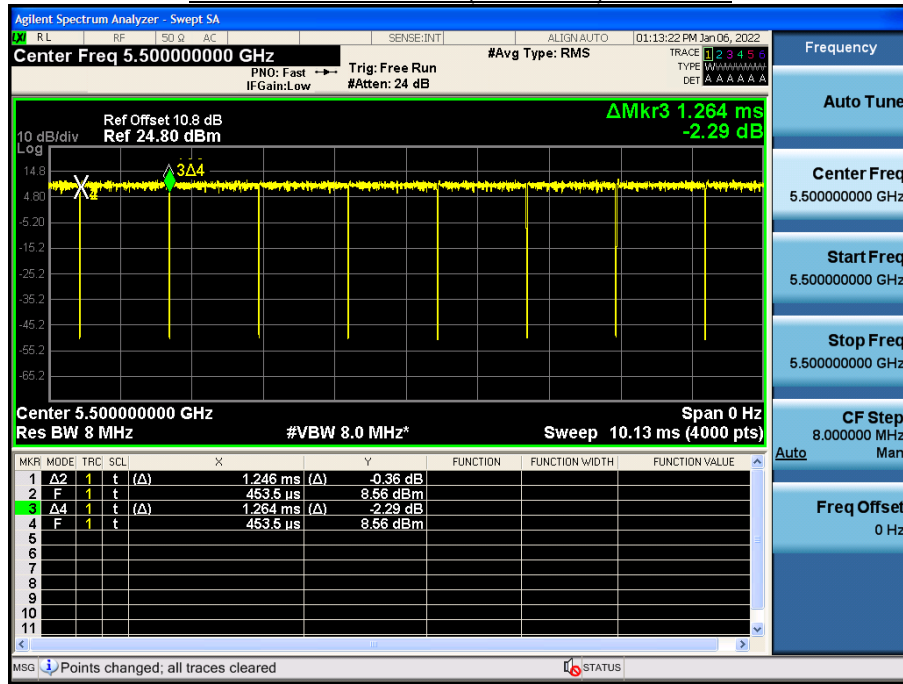
Bandwidth 20M Ch.100(5500 MHz) 106Tone MCS0



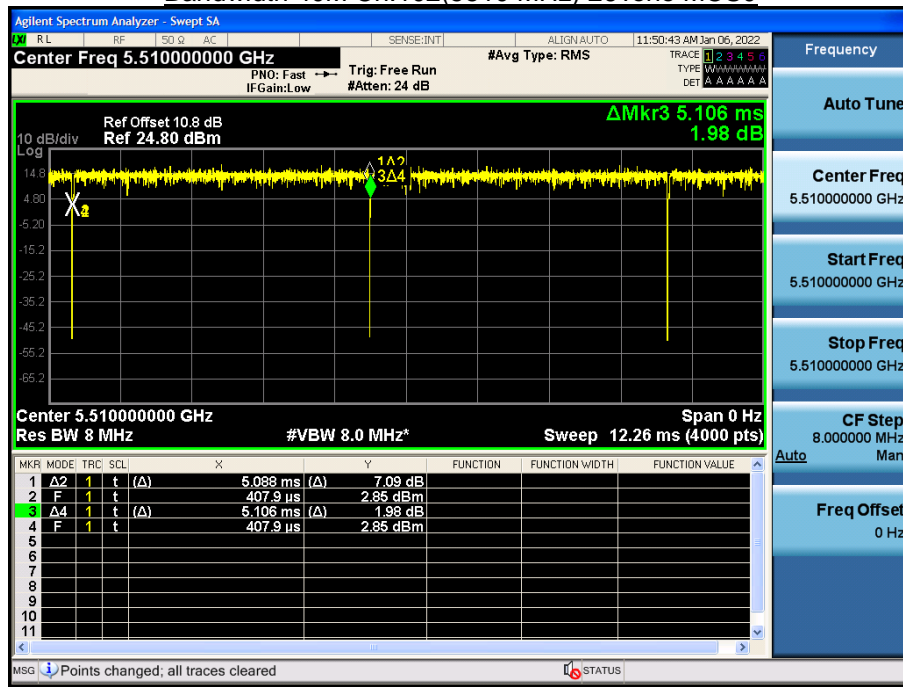
Bandwidth 20M Ch.100(5500 MHz) 242Tone MCS0



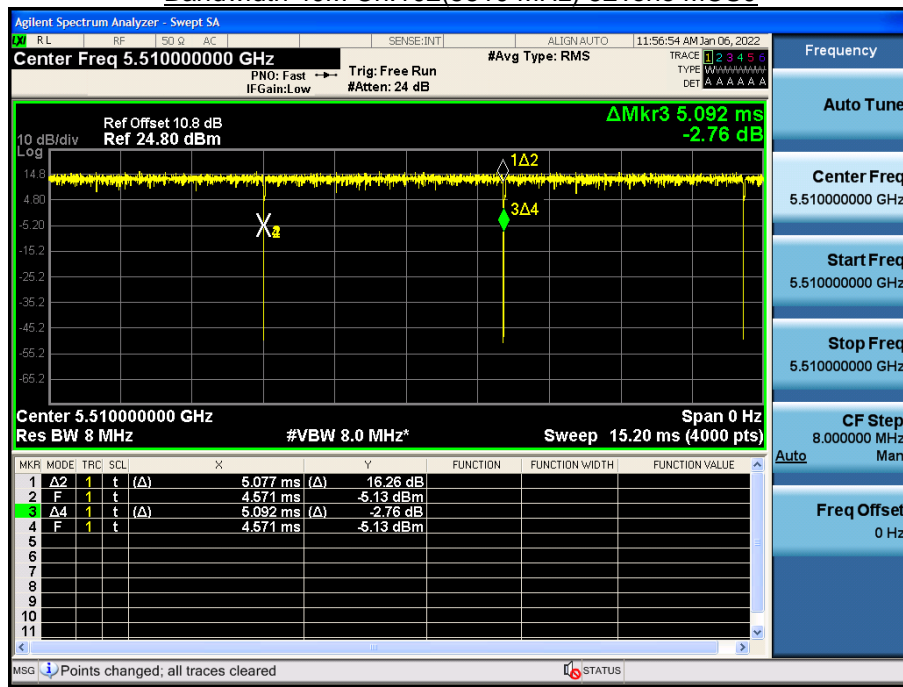
Bandwidth 20M Ch.100(5500 MHz) SU MCS0



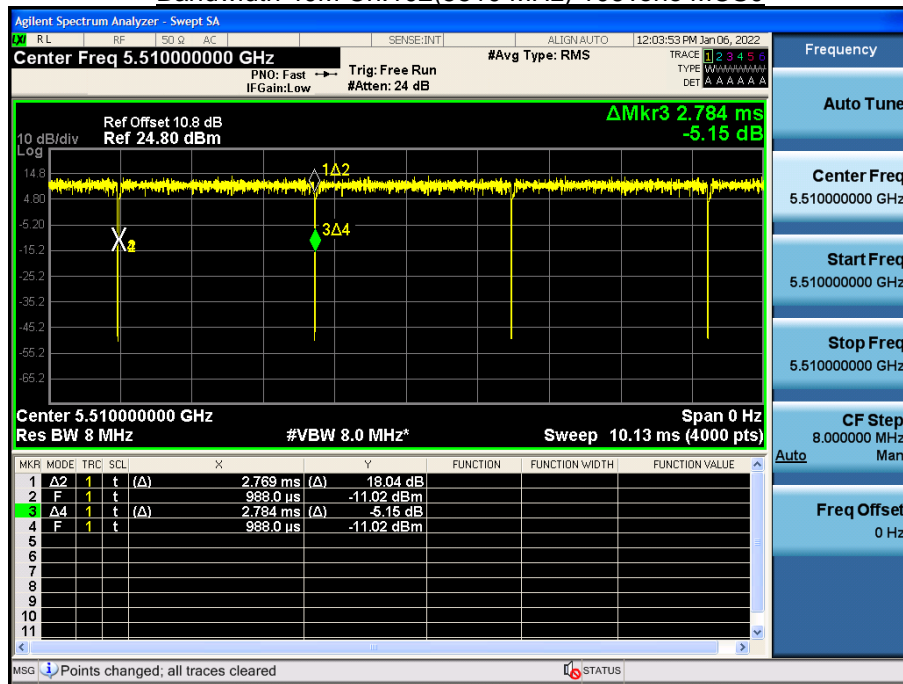
Bandwidth 40M Ch.102(5510 MHz) 26Tone MCS0



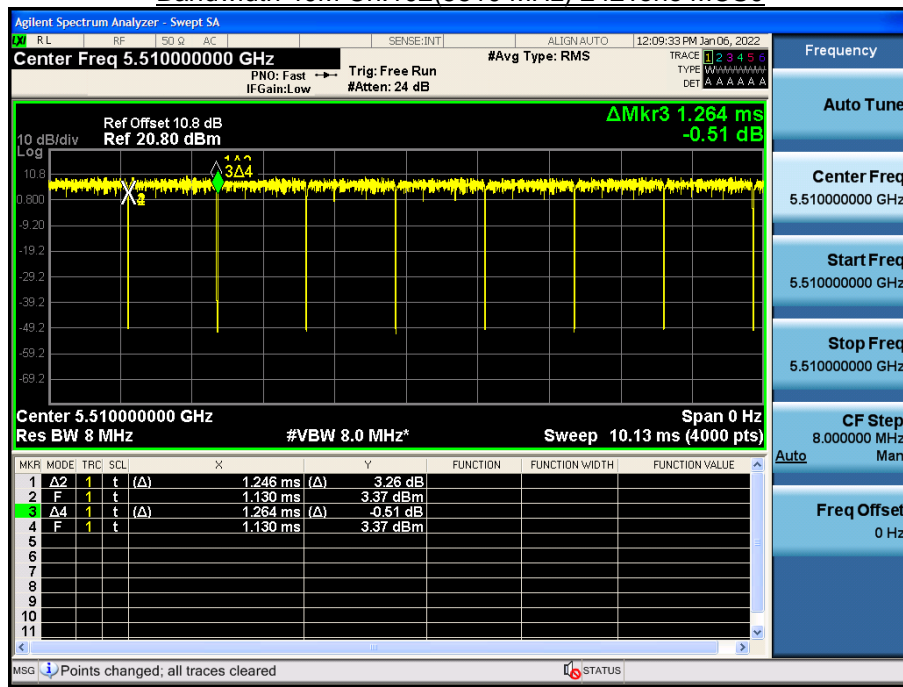
Bandwidth 40M Ch.102(5510 MHz) 52Tone MCS0



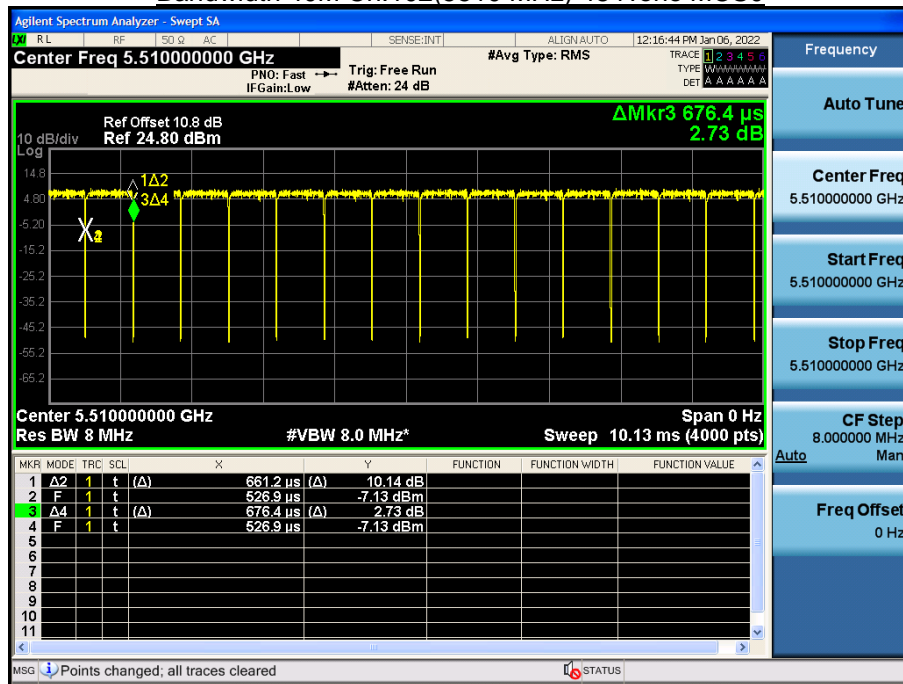
Bandwidth 40M Ch.102(5510 MHz) 106Tone MCS0



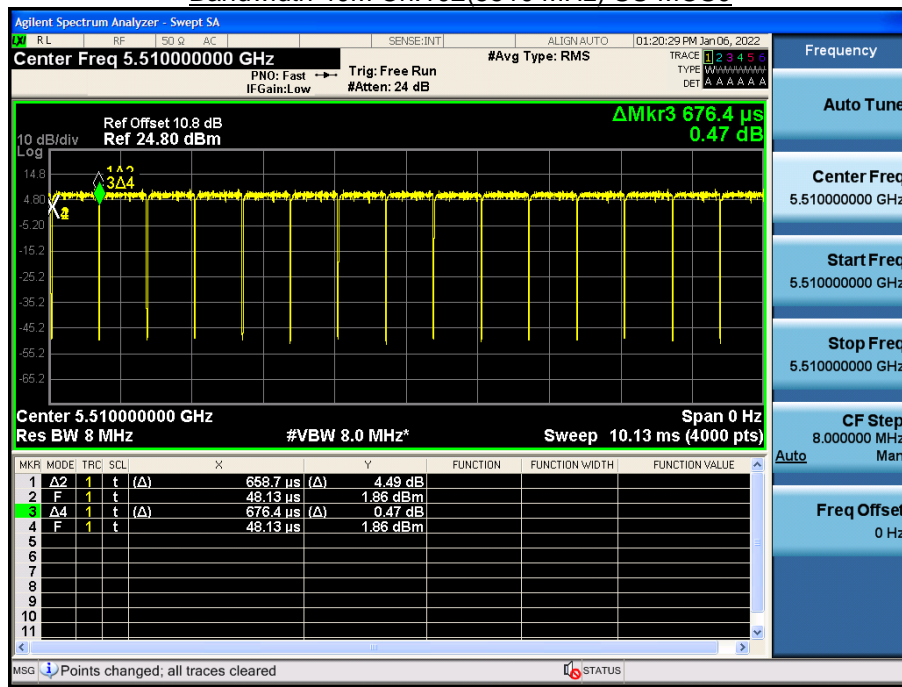
Bandwidth 40M Ch.102(5510 MHz) 242Tone MCS0



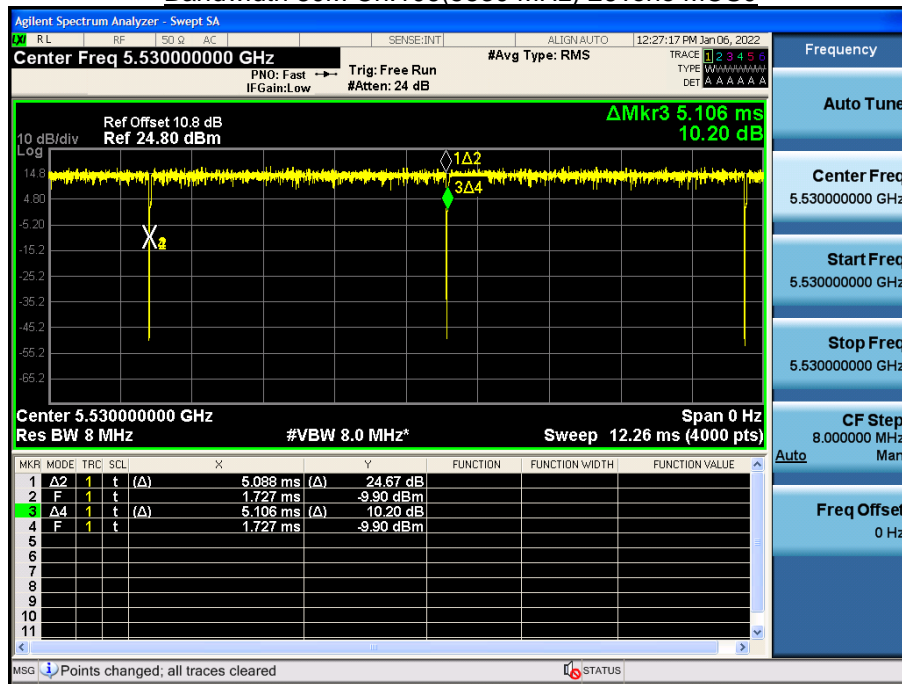
Bandwidth 40M Ch.102(5510 MHz) 484Tone MCS0



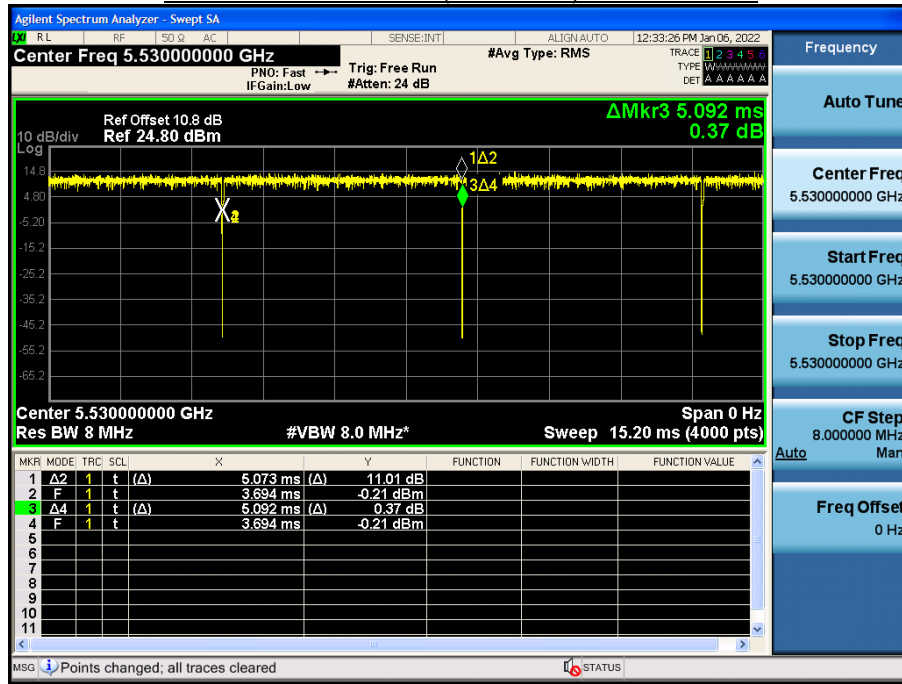
Bandwidth 40M Ch.102(5510 MHz) SU MCS0



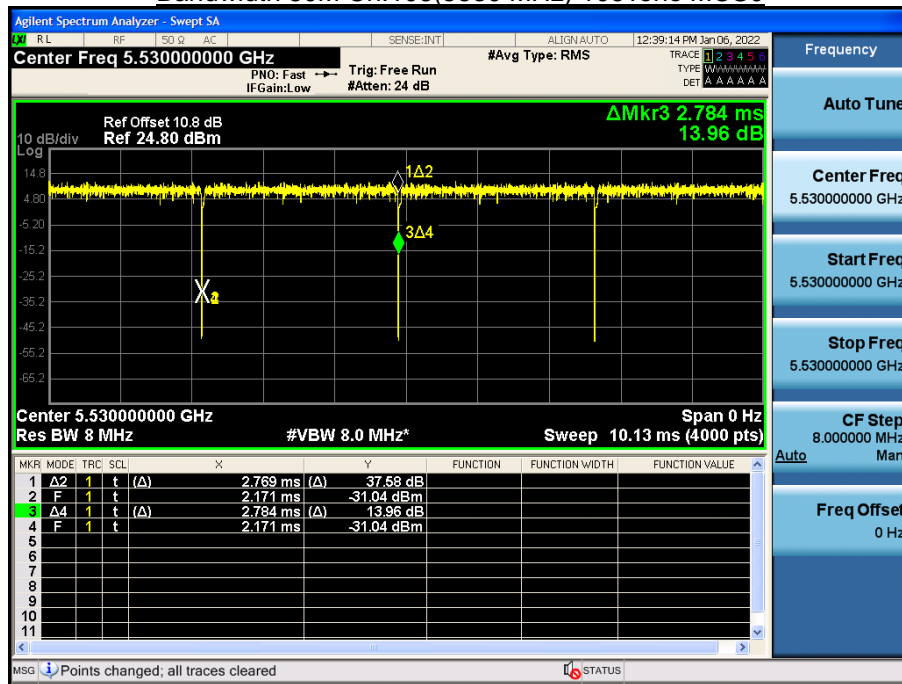
Bandwidth 80M Ch.106(5530 MHz) 26Tone MCS0



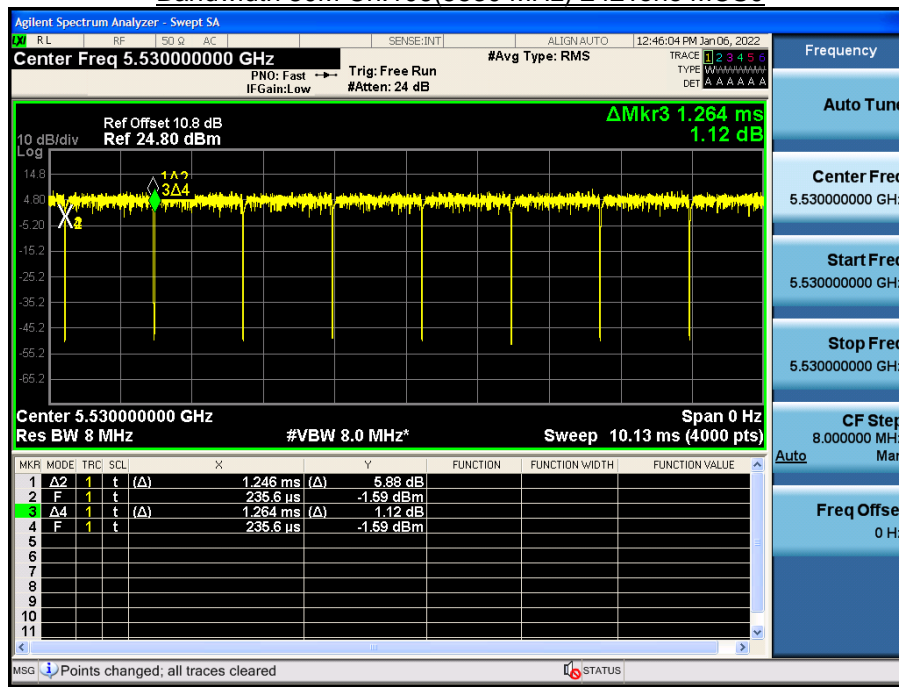
Bandwidth 80M Ch.106(5530 MHz) 52Tone MCS0



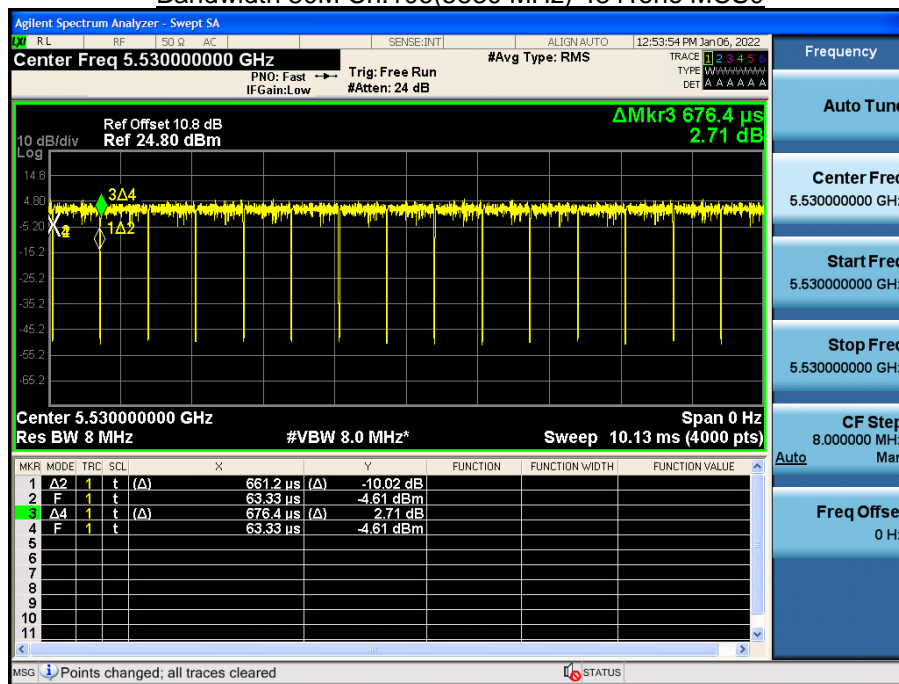
Bandwidth 80M Ch.106(5530 MHz) 106Tone MCS0



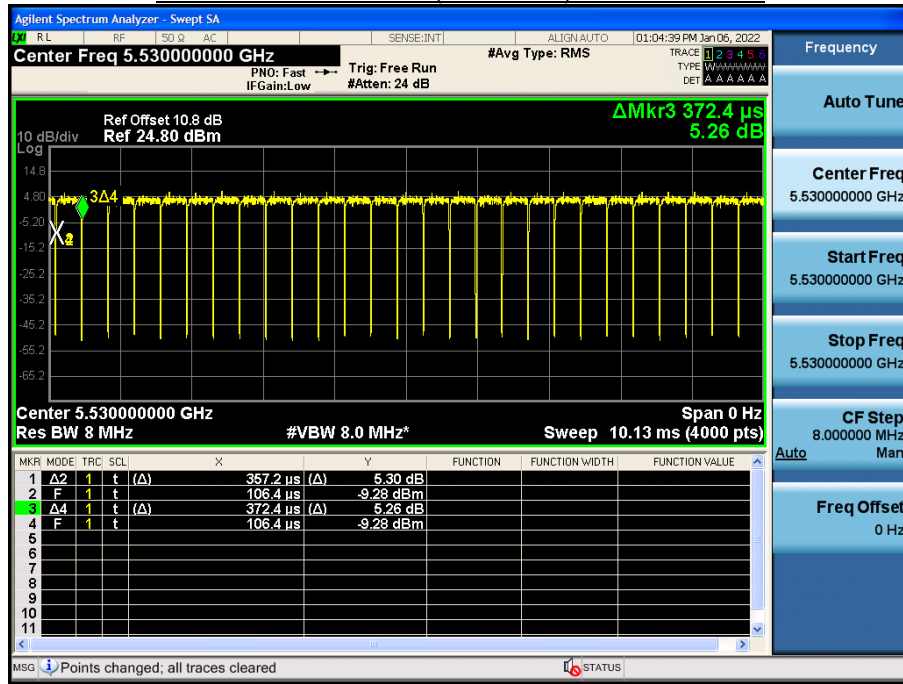
Bandwidth 80M Ch.106(5530 MHz) 242Tone MCS0



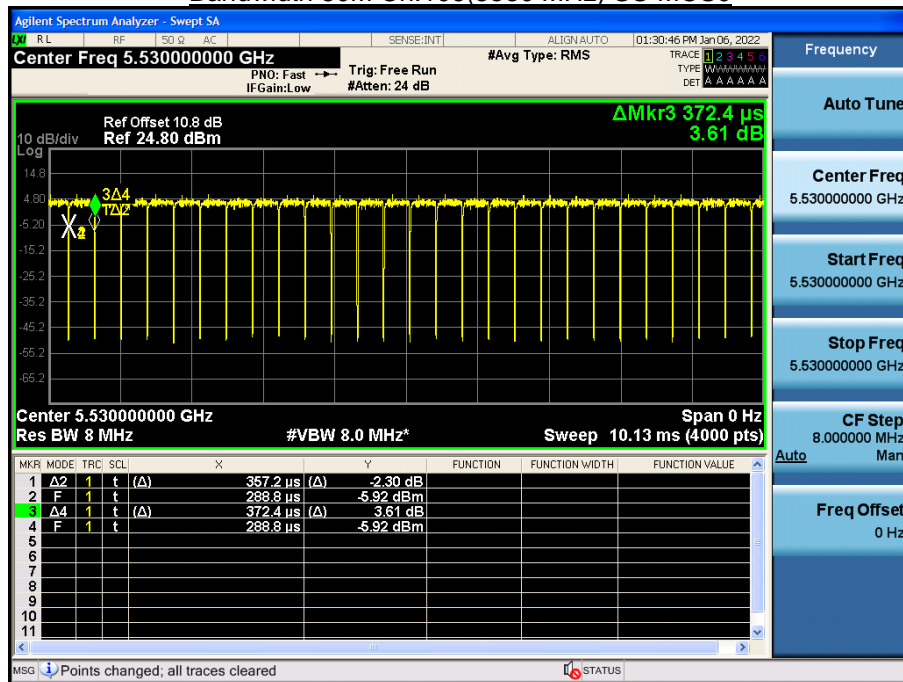
Bandwidth 80M Ch.106(5530 MHz) 484Tone MCS0



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



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

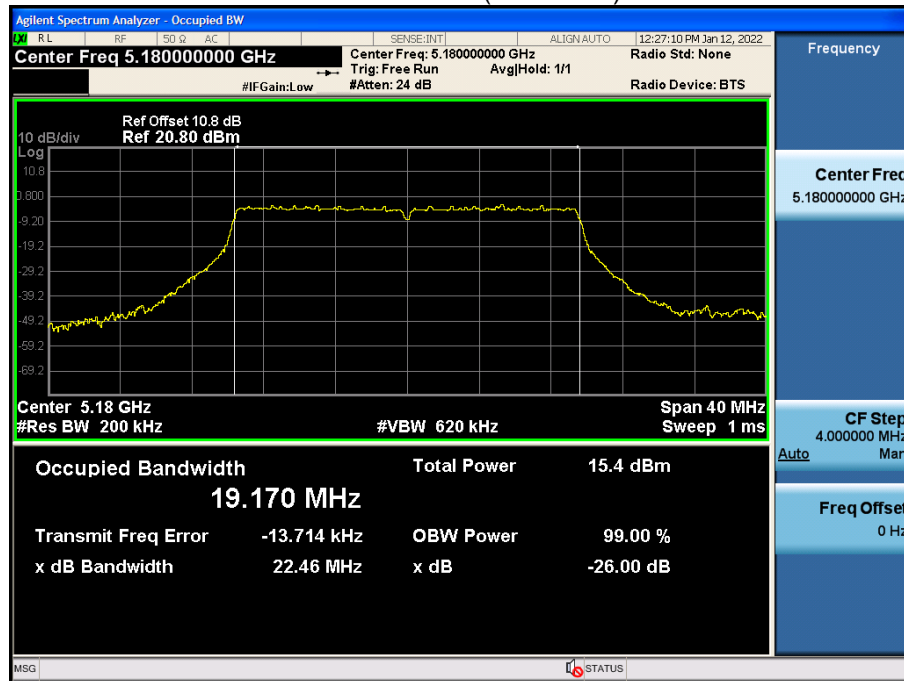


2. 26 dB Bandwidth

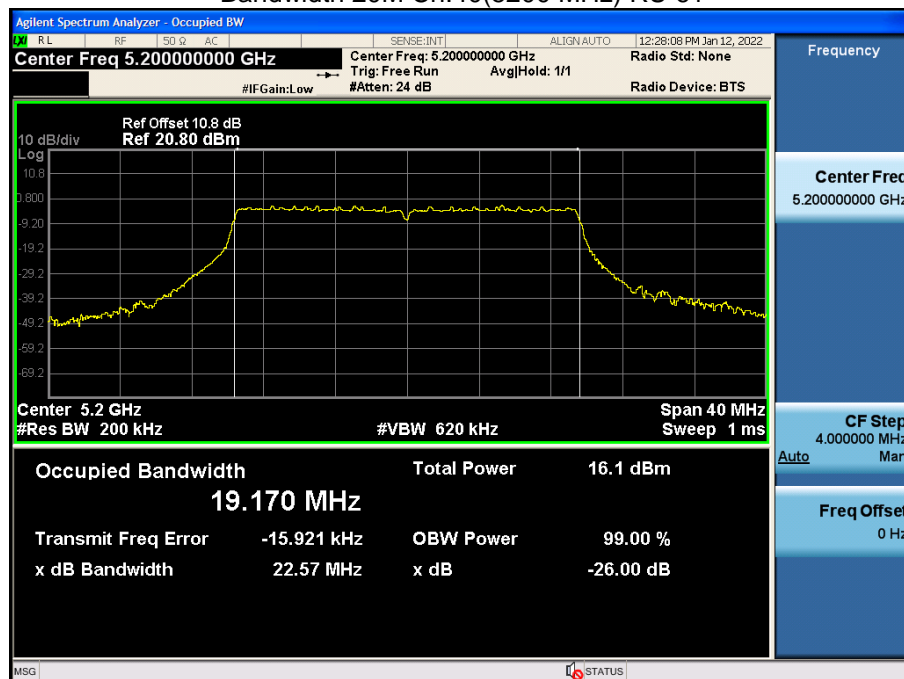
Note:

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

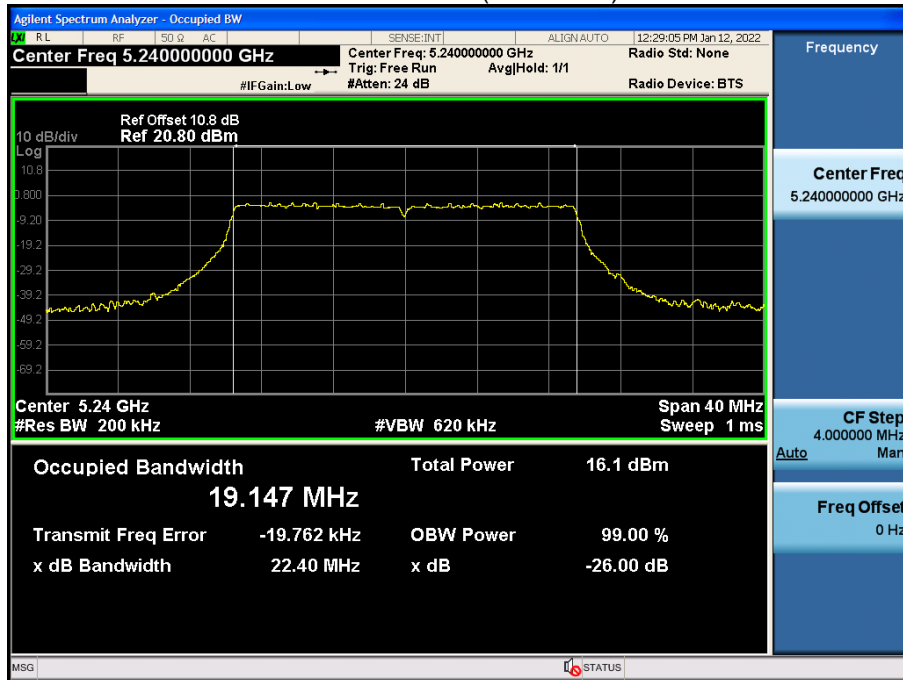
Bandwidth 20M Ch.36(5180 MHz) RU 61



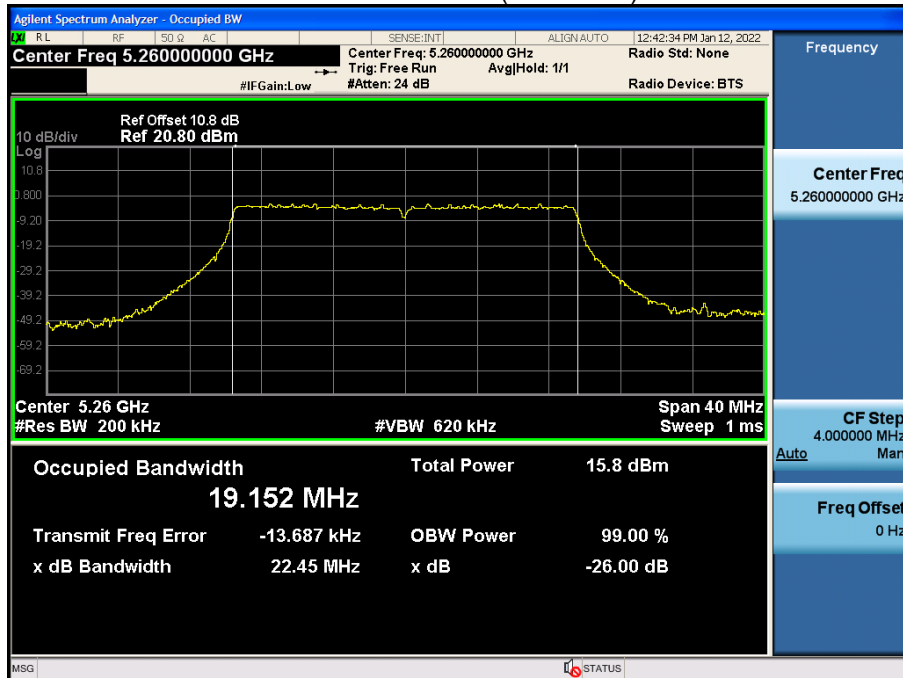
Bandwidth 20M Ch.40(5200 MHz) RU 61



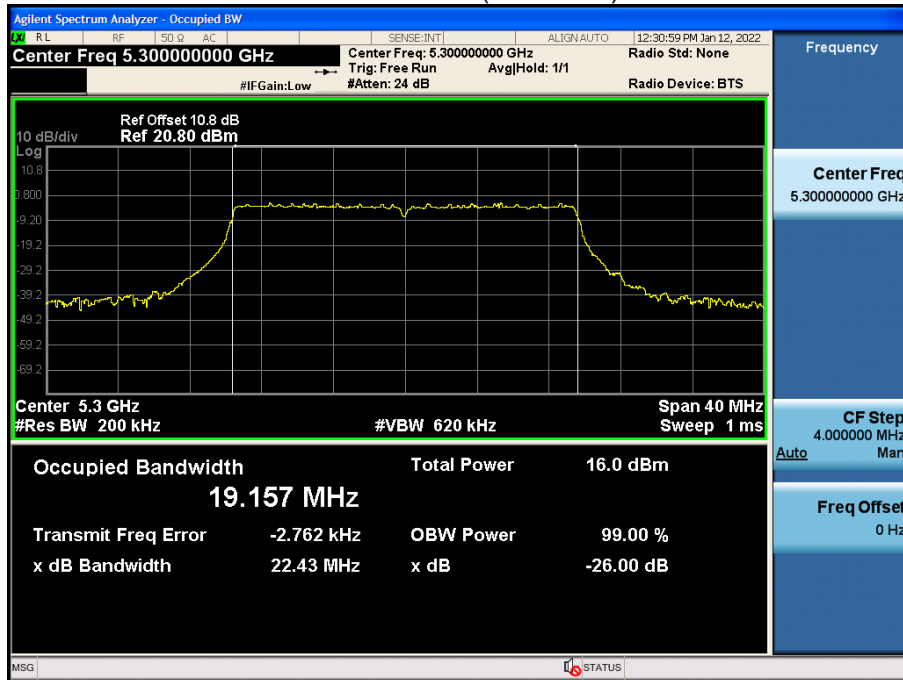
Bandwidth 20M Ch.48(5240 MHz) RU 61



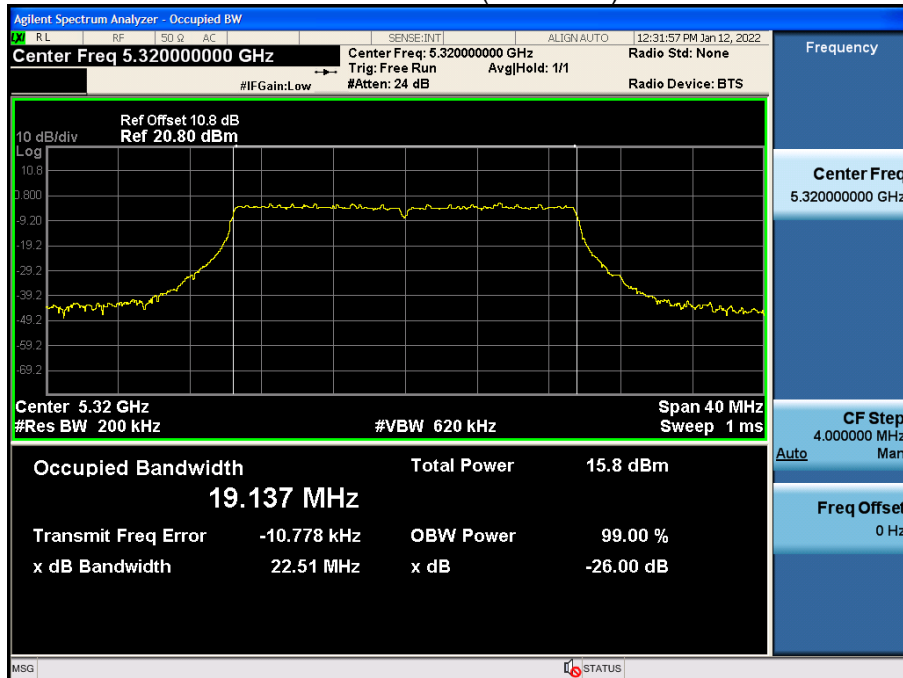
Bandwidth 20M Ch.52(5260 MHz) SU



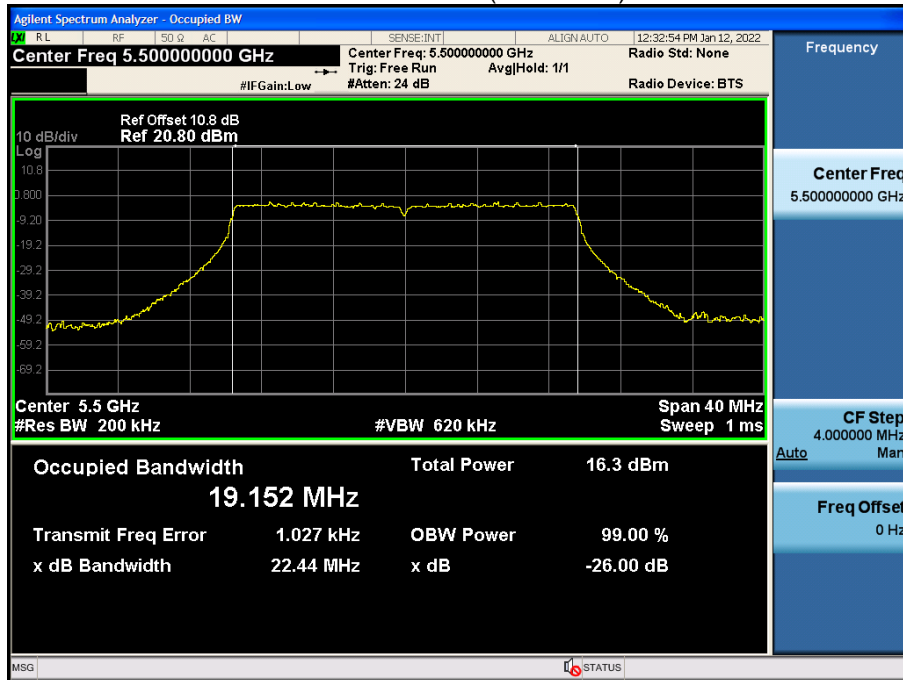
Bandwidth 20M Ch.60(5300 MHz) RU 61



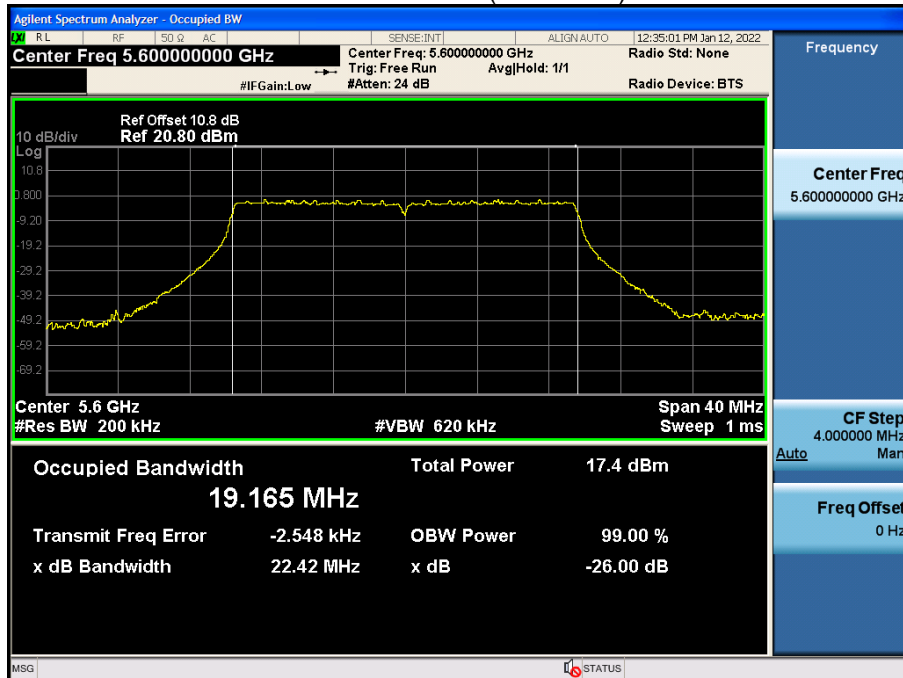
Bandwidth 20M Ch.64(5320 MHz) RU 61



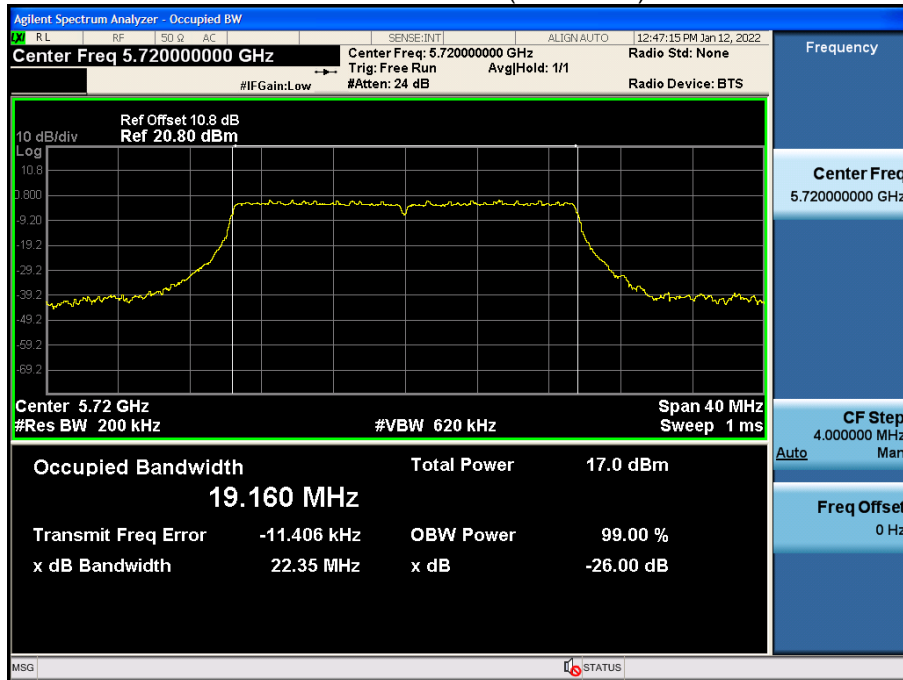
Bandwidth 20M Ch.100(5500 MHz) RU 61



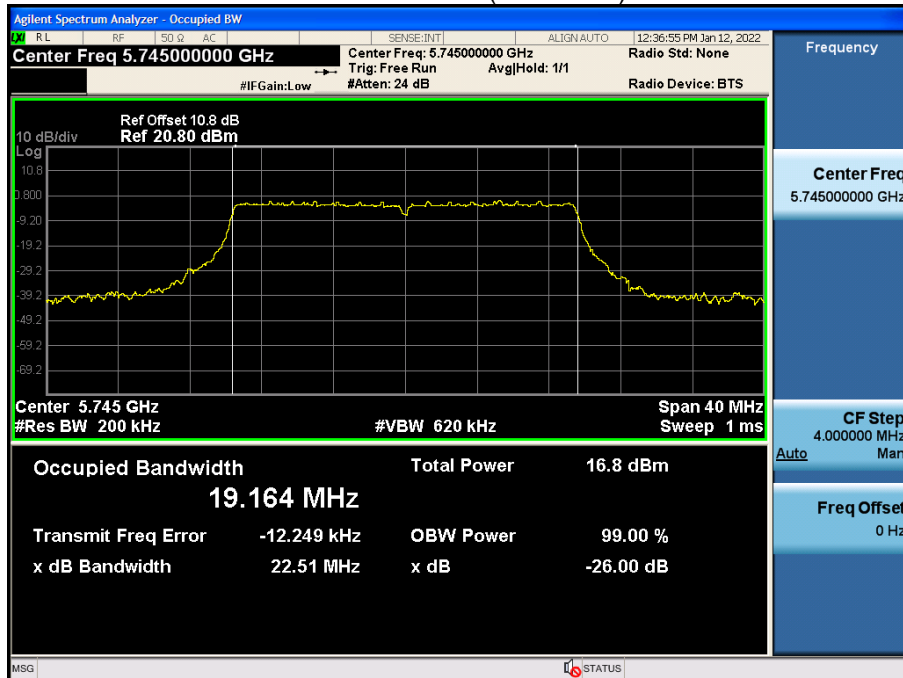
Bandwidth 20M Ch.120(5600 MHz) RU 61



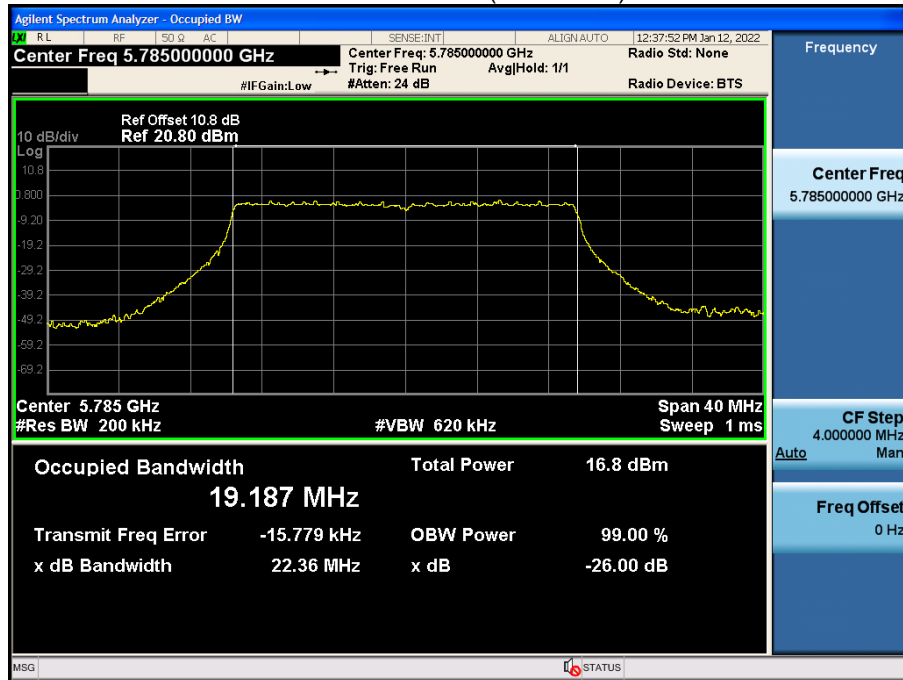
Bandwidth 20M Ch.144(5720 MHz) SU



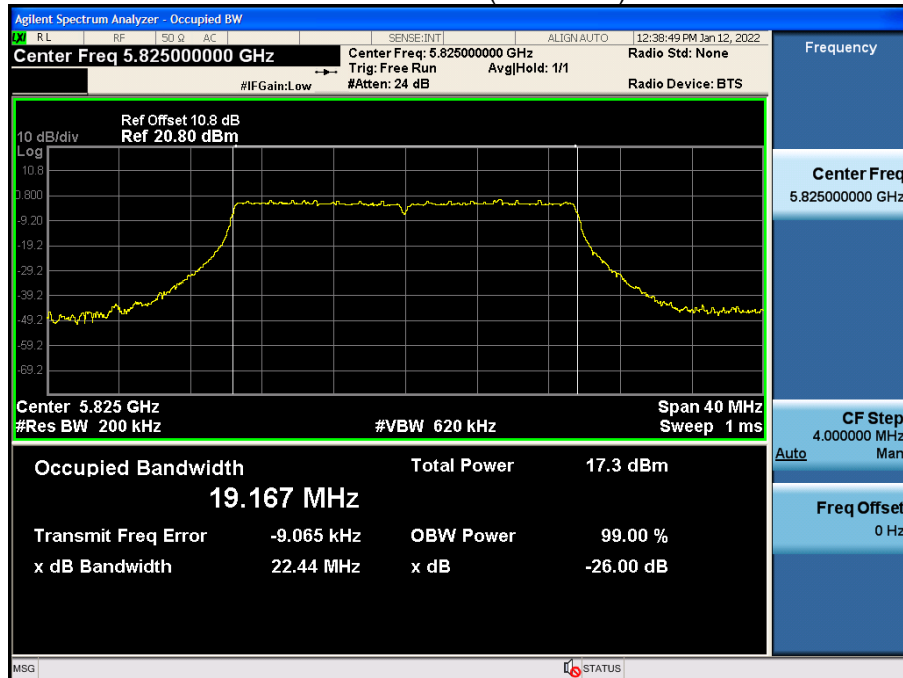
Bandwidth 20M Ch.149(5745 MHz) RU 61



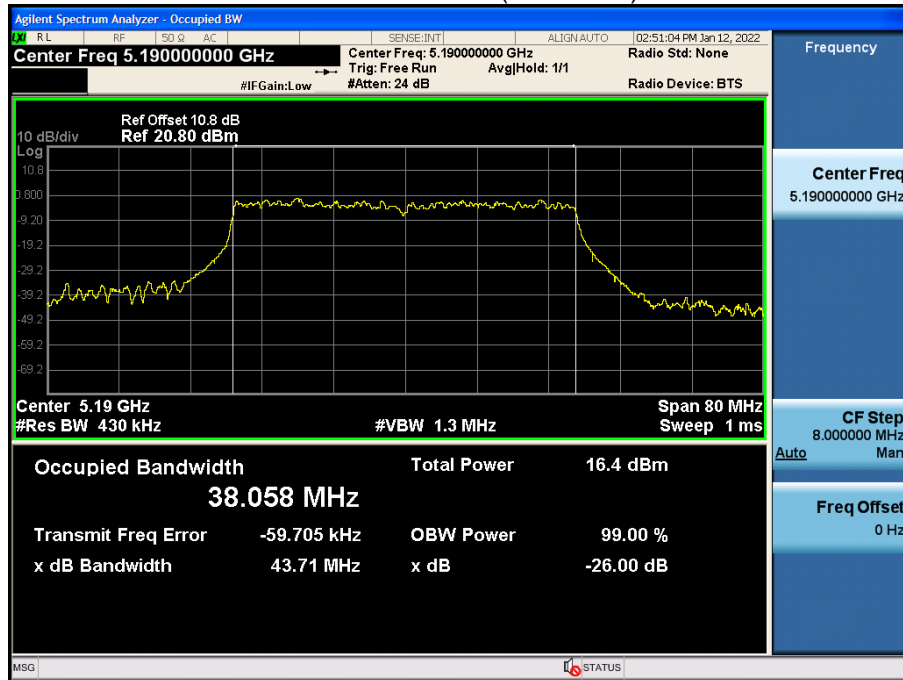
Bandwidth 20M Ch.157(5785 MHz) RU 61



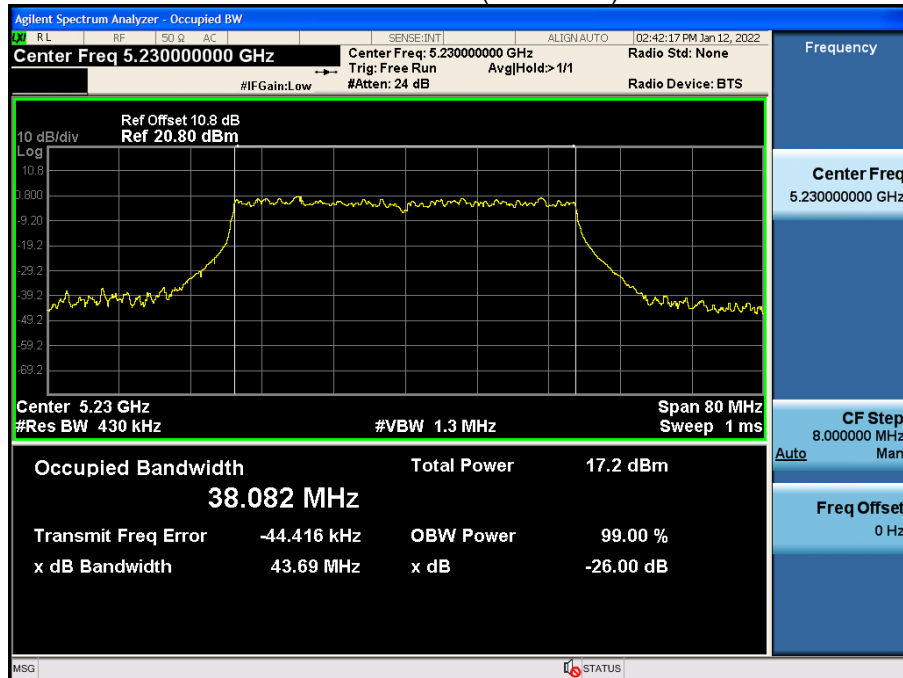
Bandwidth 20M Ch.165(5825 MHz) RU 61



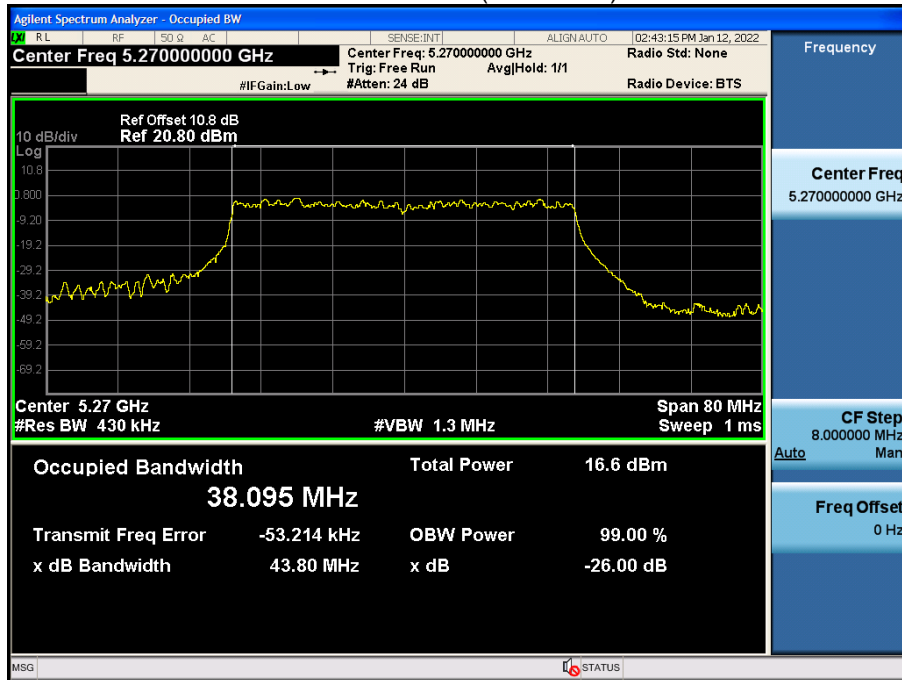
Bandwidth 40M Ch.38(5190 MHz) SU



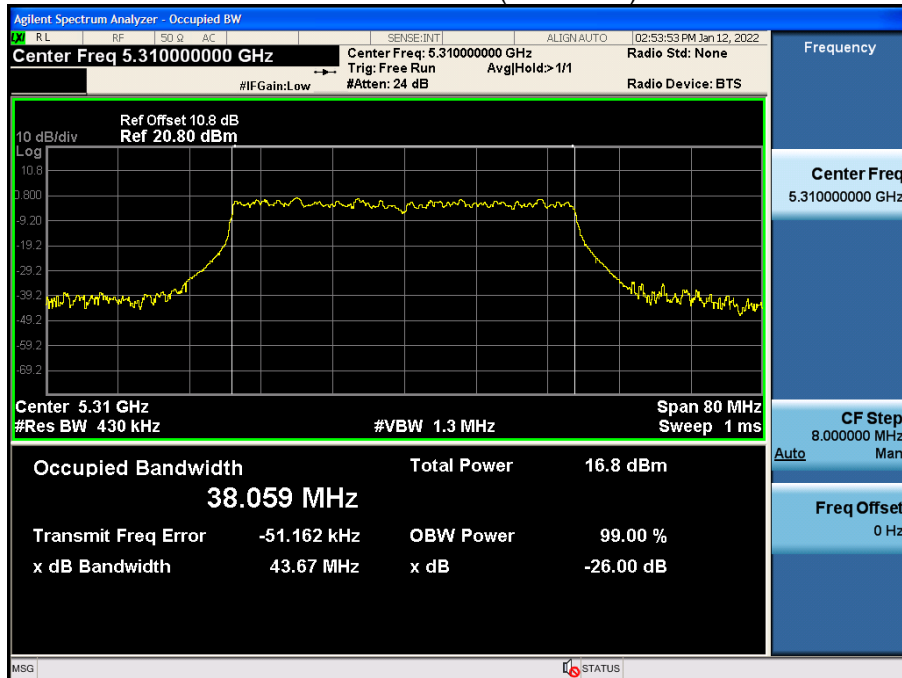
Bandwidth 40M Ch.46(5230 MHz) RU 65



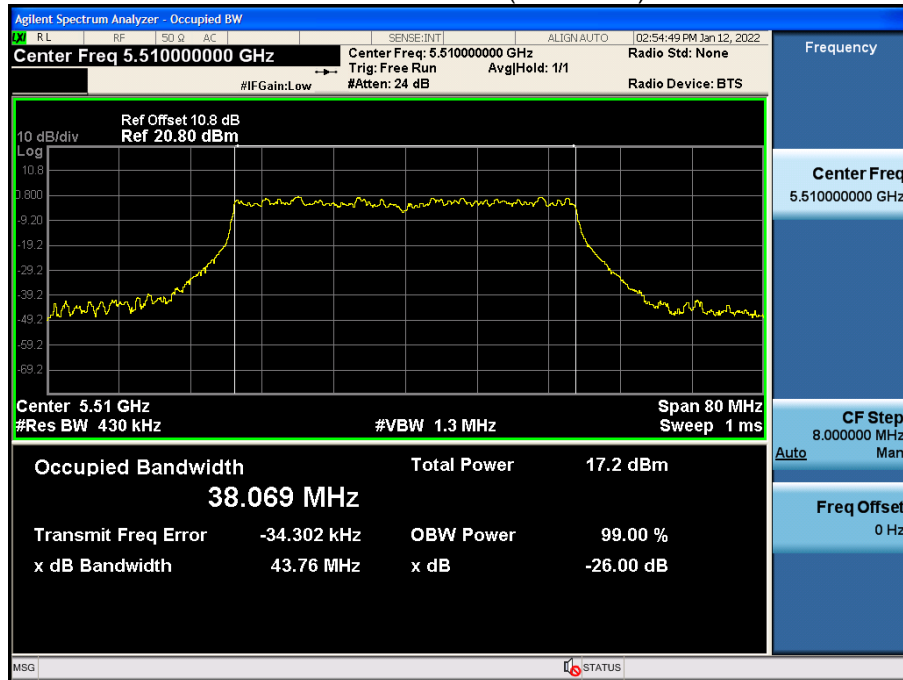
Bandwidth 40M Ch.54(5270 MHz) RU 65



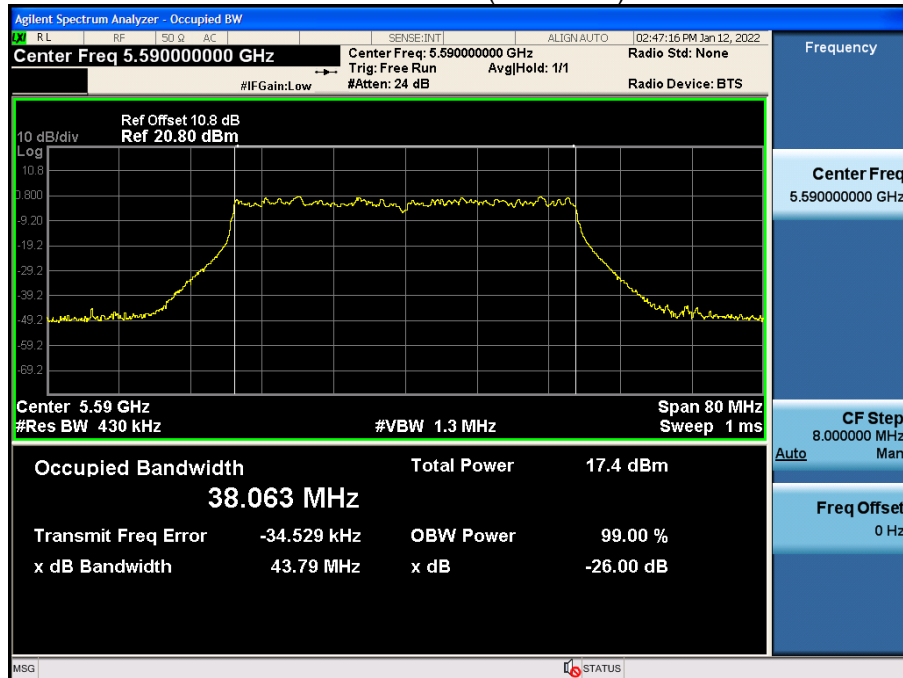
Bandwidth 40M Ch.62(5310 MHz) SU



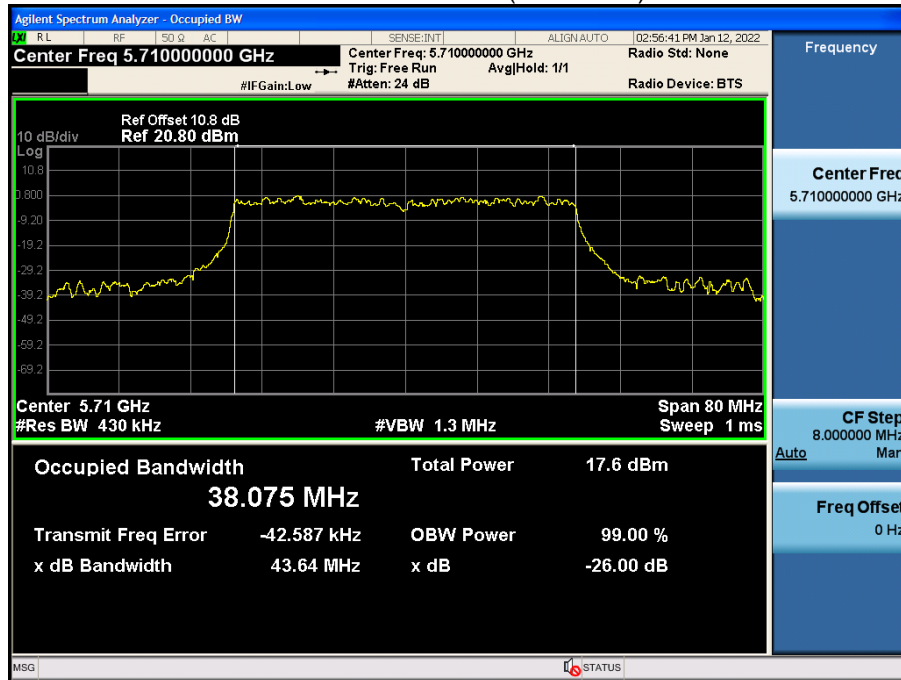
Bandwidth 40M Ch.102(5510 MHz) SU



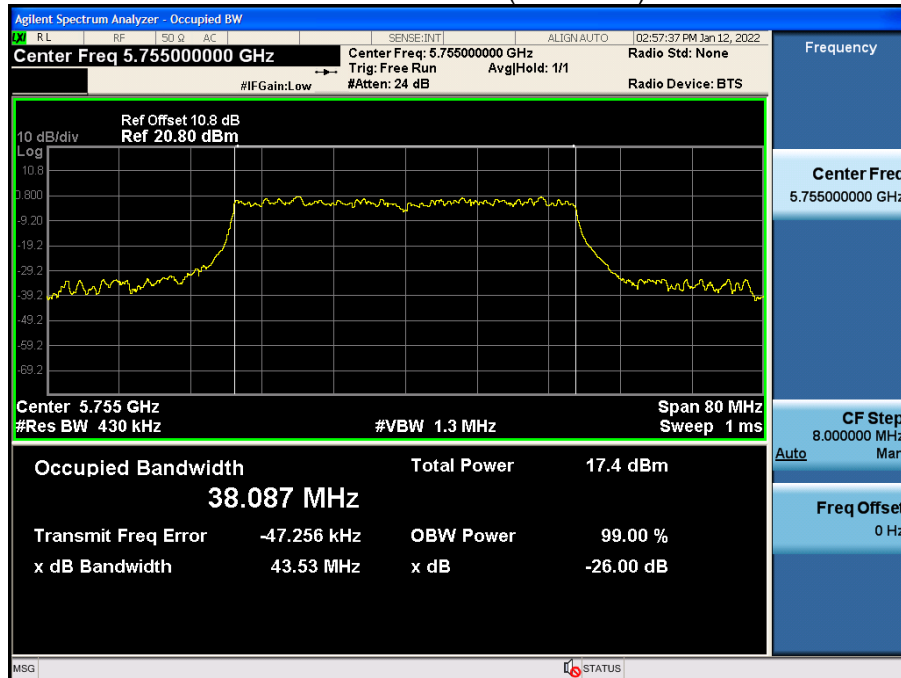
Bandwidth 40M Ch.118(5590 MHz) RU 65



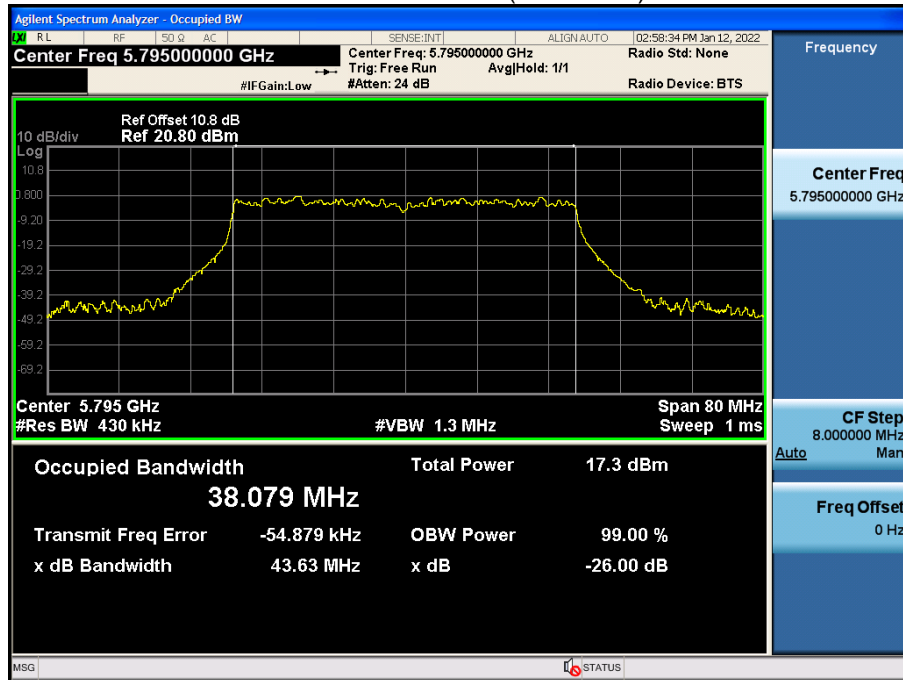
Bandwidth 40M Ch.142(5710 MHz) SU



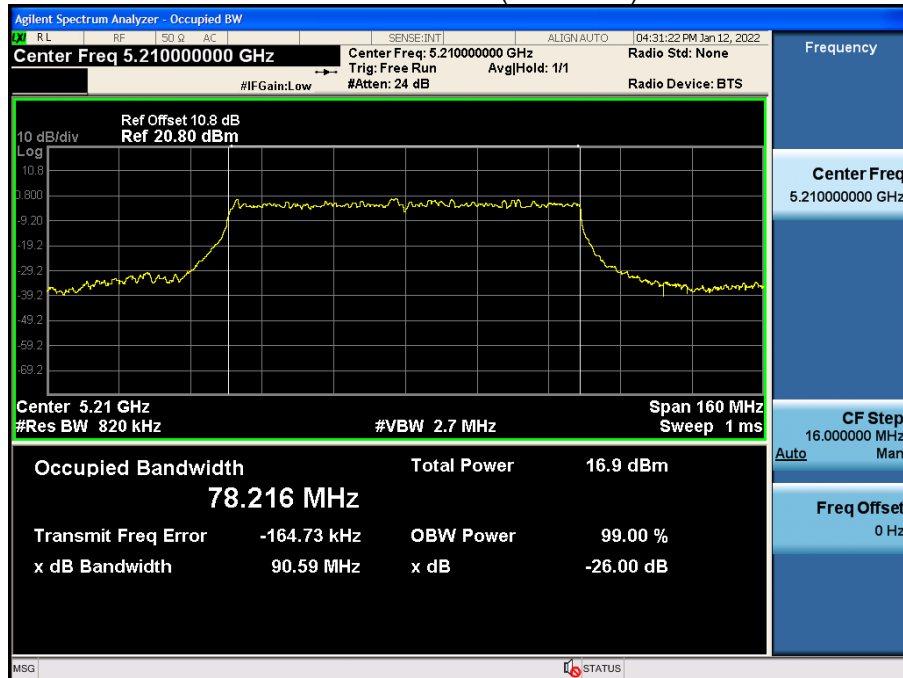
Bandwidth 40M Ch.151(5755 MHz) SU



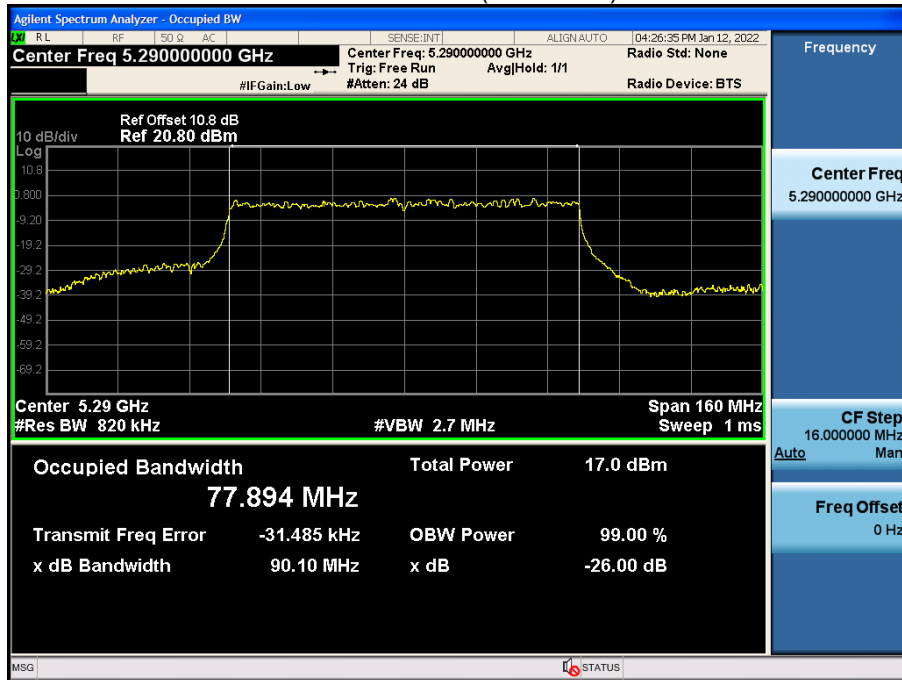
Bandwidth 40M Ch.159(5795 MHz) SU



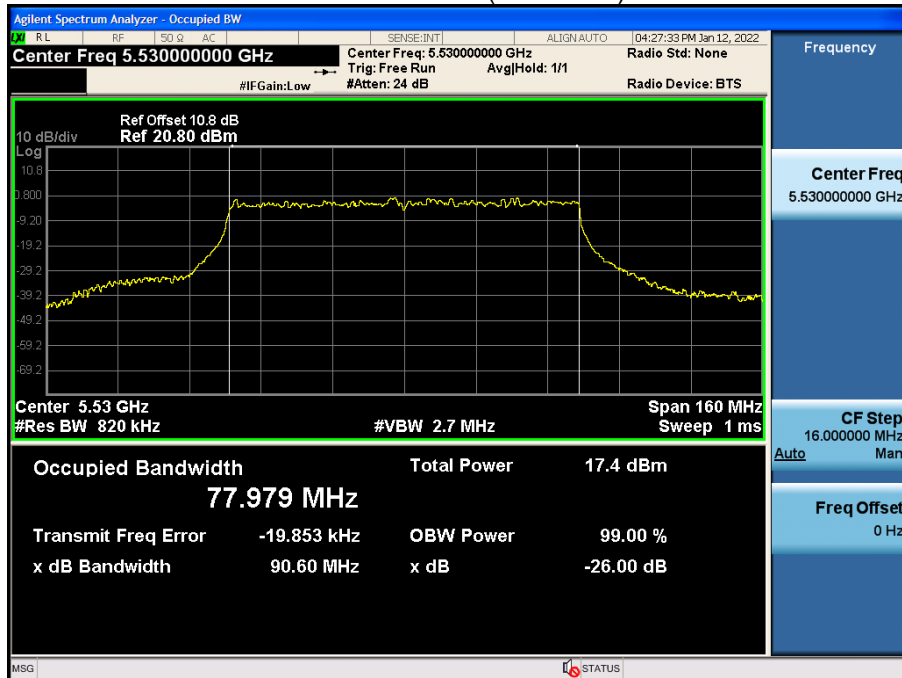
Bandwidth 80M Ch.42(5210 MHz) SU



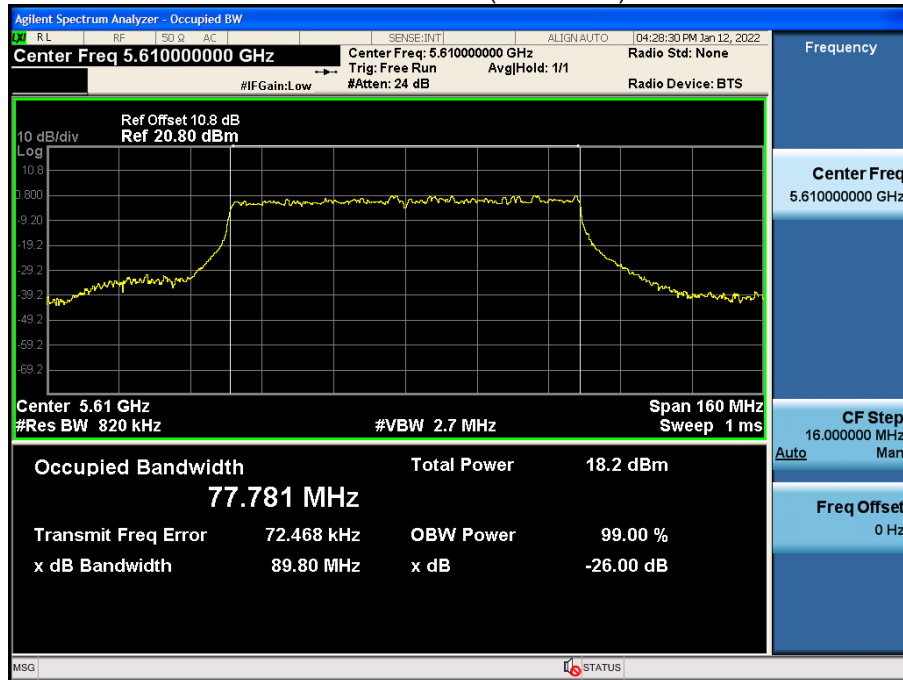
Bandwidth 80M Ch.58(5290 MHz) RU 67



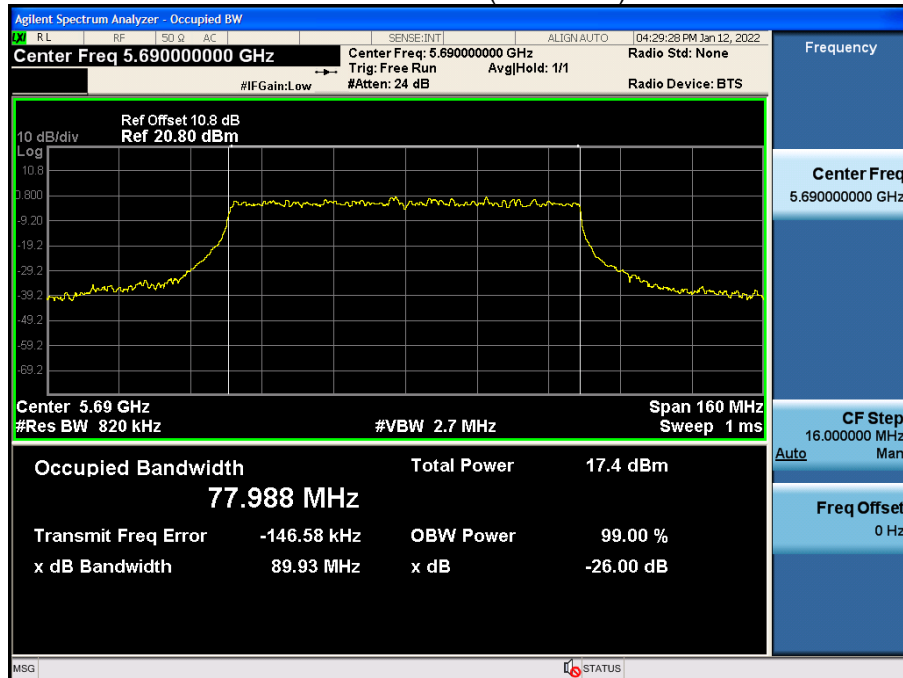
Bandwidth 80M Ch.106(5530 MHz) RU 67



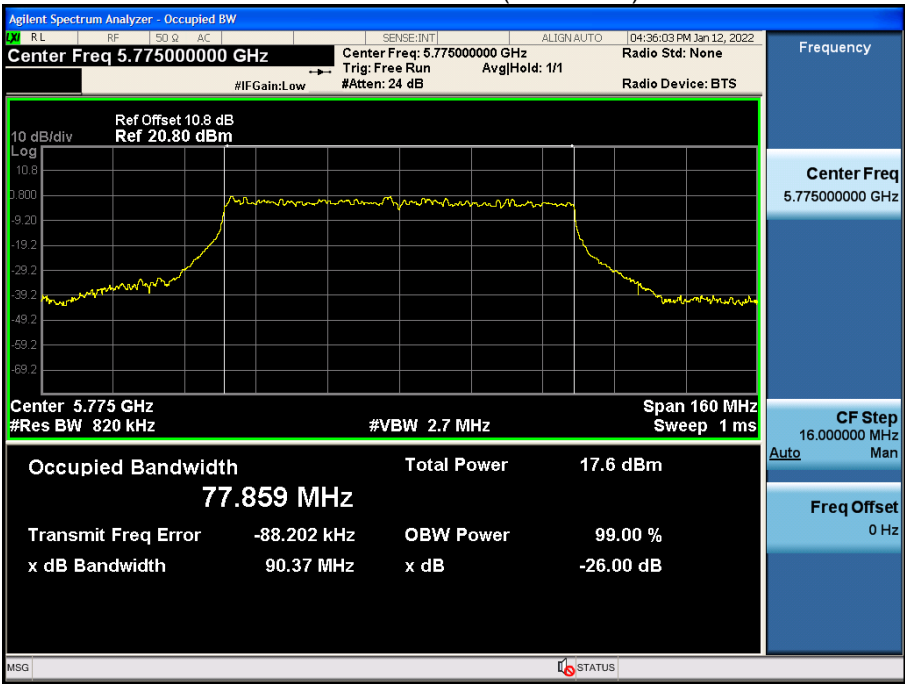
Bandwidth 80M Ch.122(5610 MHz) RU 67



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



Bandwidth 80M Ch.155(5775 MHz) SU

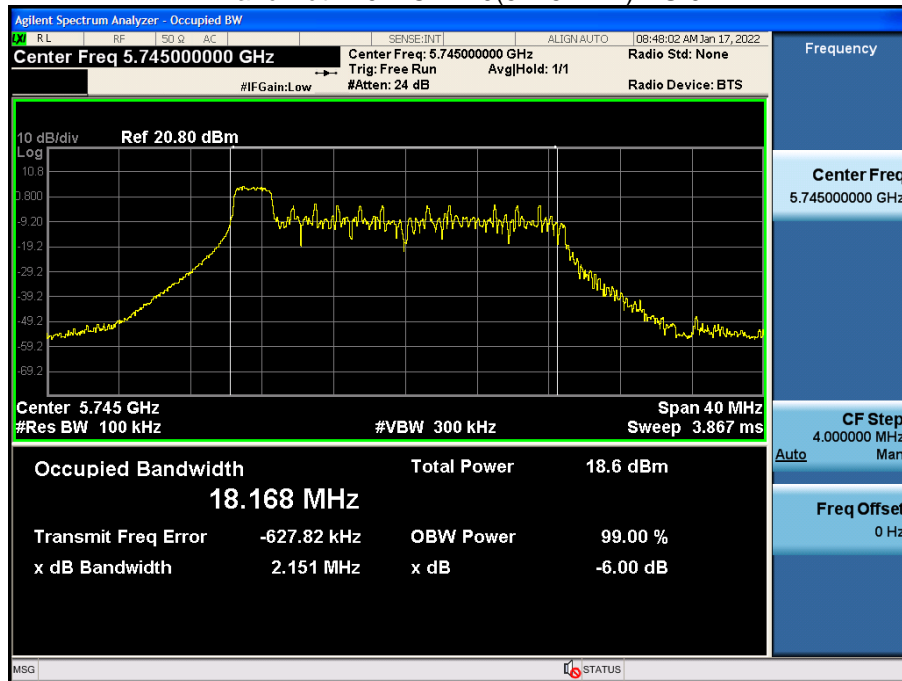


3. 6 dB Bandwidth

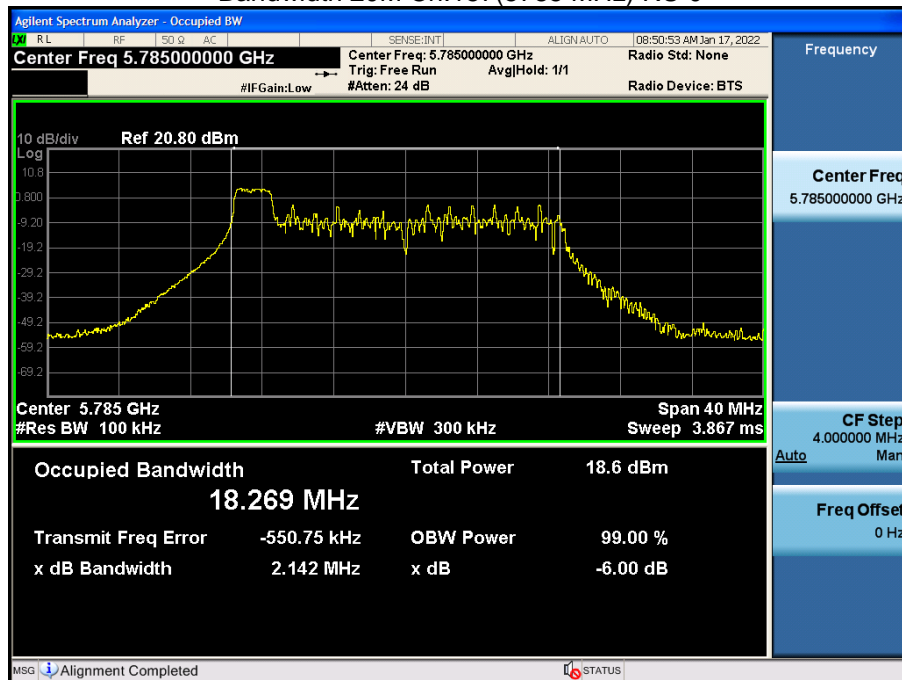
Note:

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

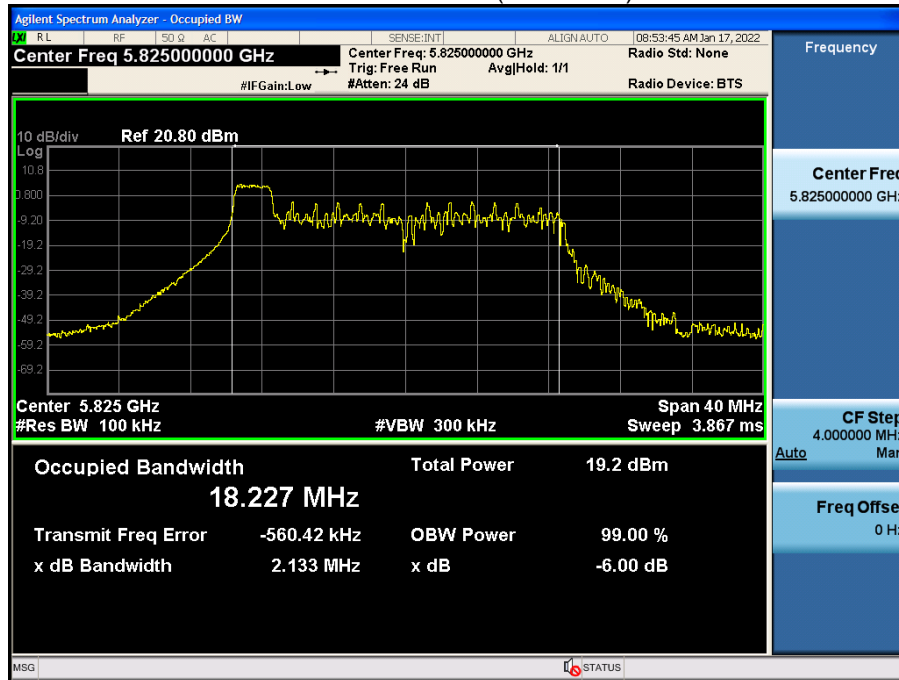
Bandwidth 20M Ch.149(5745 MHz) RU 0



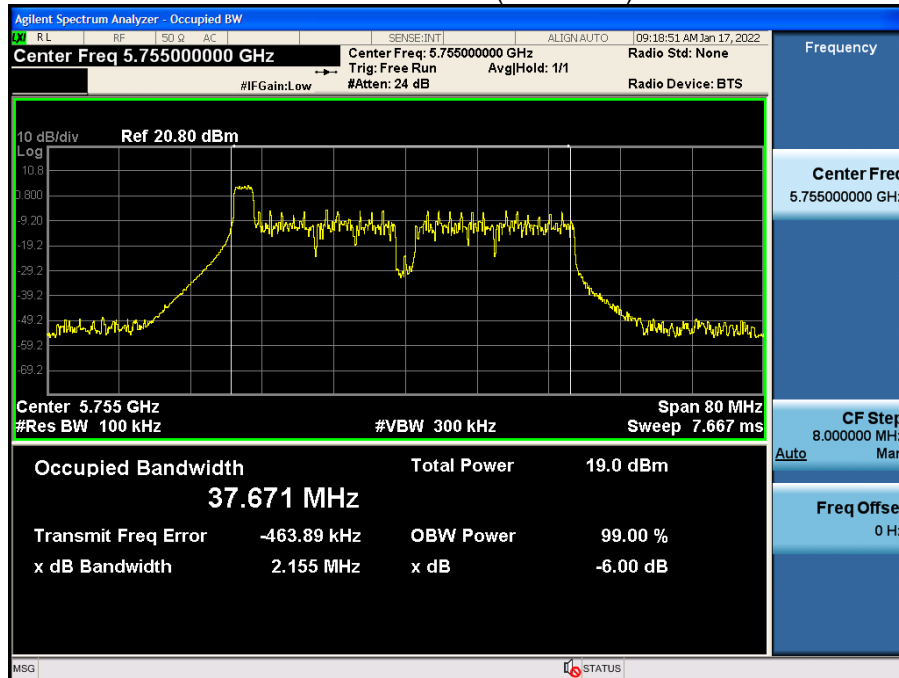
Bandwidth 20M Ch.157(5785 MHz) RU 0



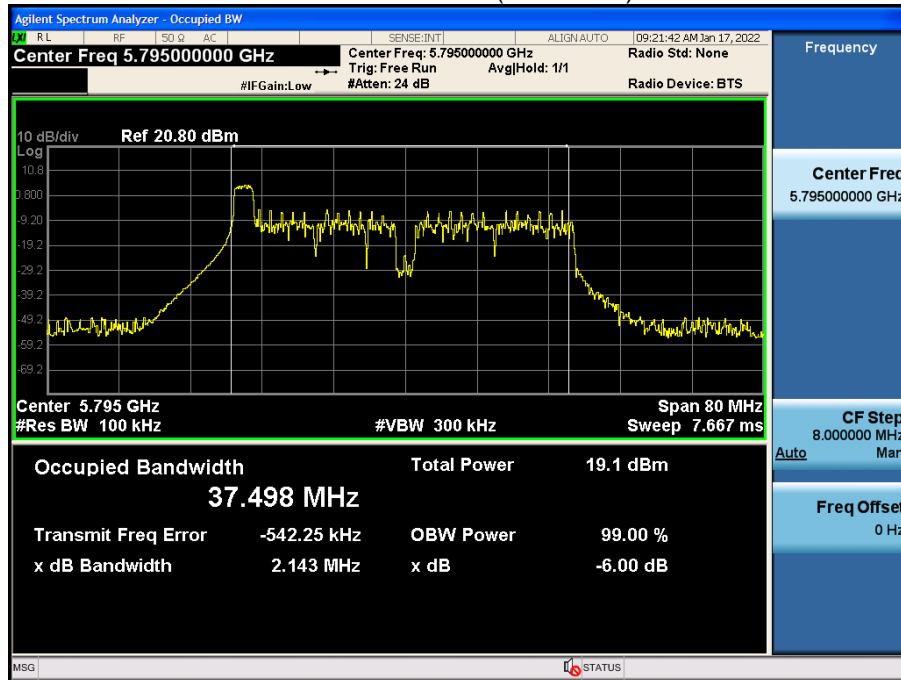
Bandwidth 20M Ch.165(5825 MHz) RU 0



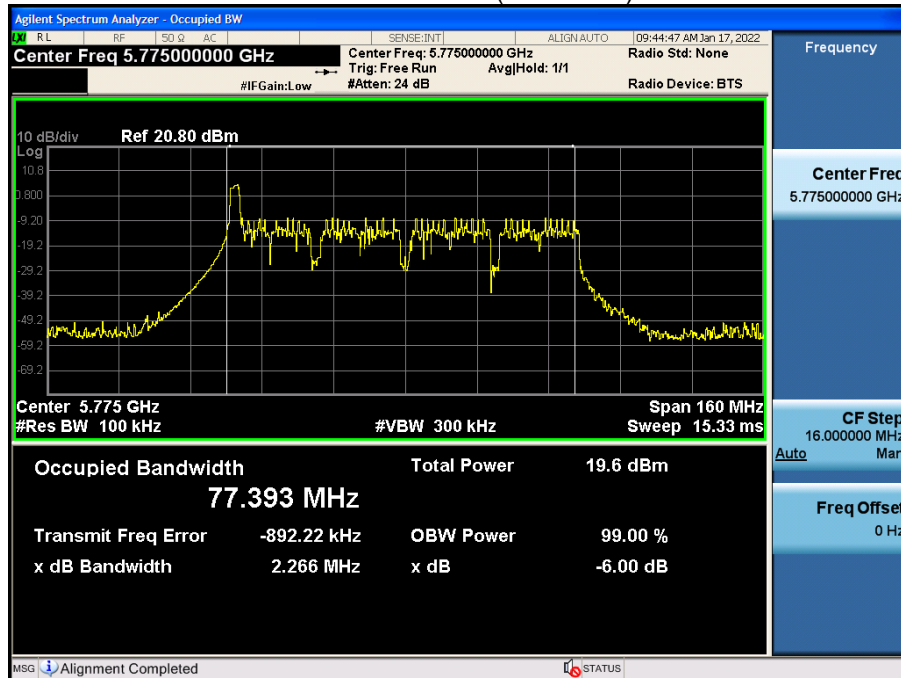
Bandwidth 40M Ch.151(5755 MHz) RU 0



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



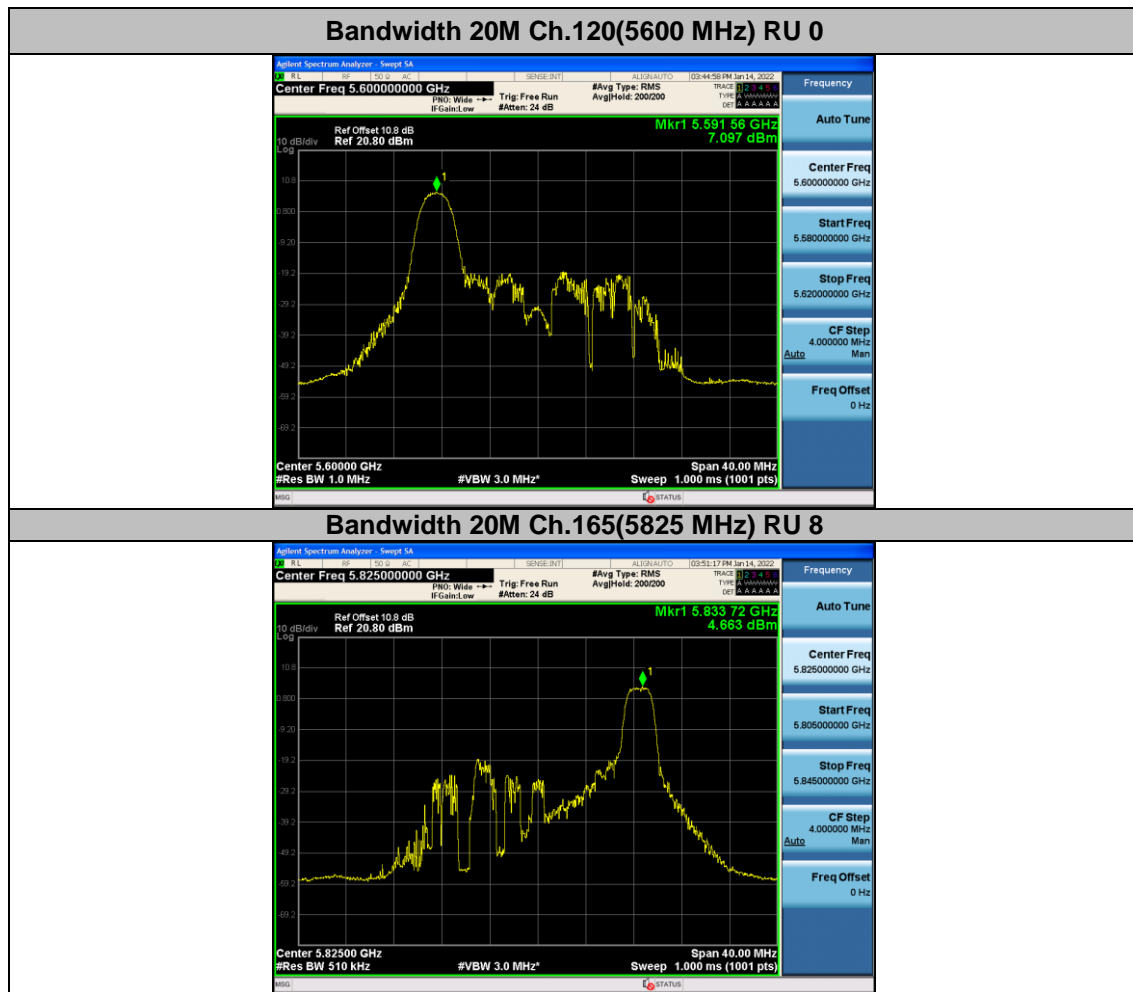
Bandwidth 80M Ch.155(5775 MHz) RU 0



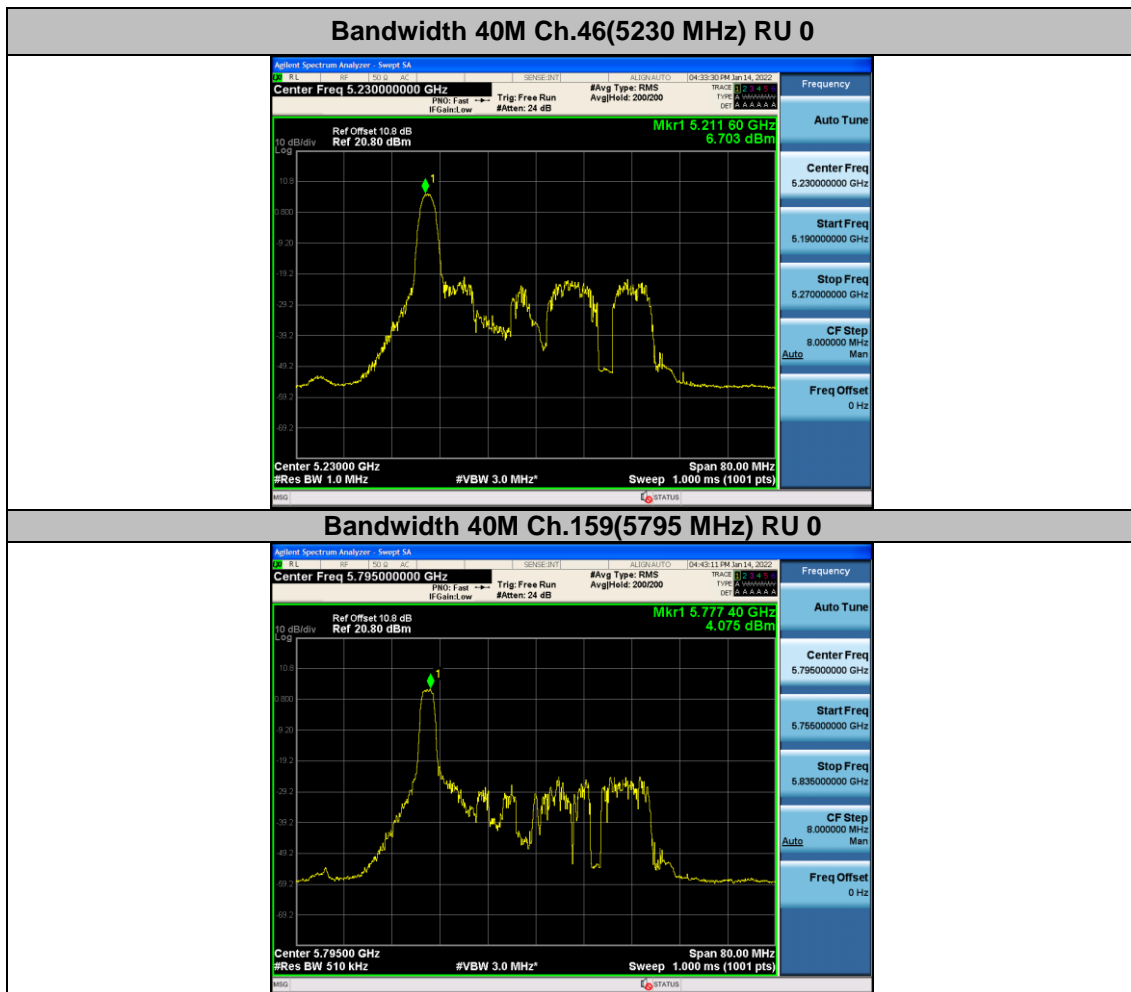
4. Power Spectral Density

Note:

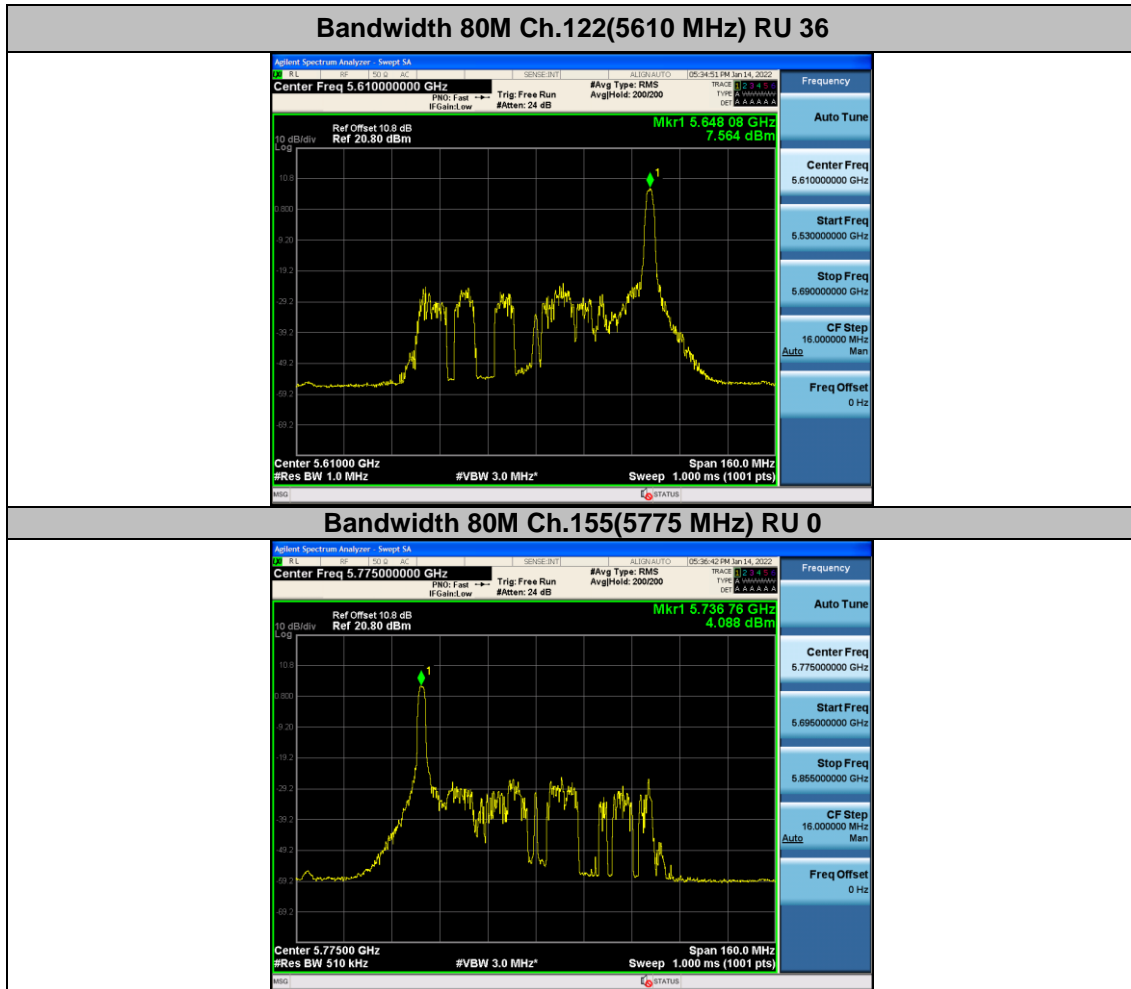
1. In order to simplify the report, attached plots were only channel of highest PSD.
2. Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)



Frequency [MHz]	Measured PSD [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]
5 600	7.097	0.016	7.113
5 825	4.663	0.016	4.679



Frequency [MHz]	Measured PSD [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]
5 230	6.703	0.016	6.719
5 795	4.075	0.016	4.091



Frequency [MHz]	Measured PSD [dBm]	Duty Cycle Factor [dB]	Total PSD [dBm]
5 610	7.564	0.016	7.580
5 775	4.088	0.016	4.104

5. Straddle Channel

5.1 26 dB Bandwidth

Note:

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

(26 dB) Bandwidth 20M Ch.144(5720 MHz) RU 37



UNII 2C	5725 [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725.00	5708.72	16.28

Note:

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

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



UNII 3	Measured Frequency [MHz]	5725 [MHz]	26dB Bandwidth [MHz]
	5731.28	5725.00	6.28

Note:

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

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

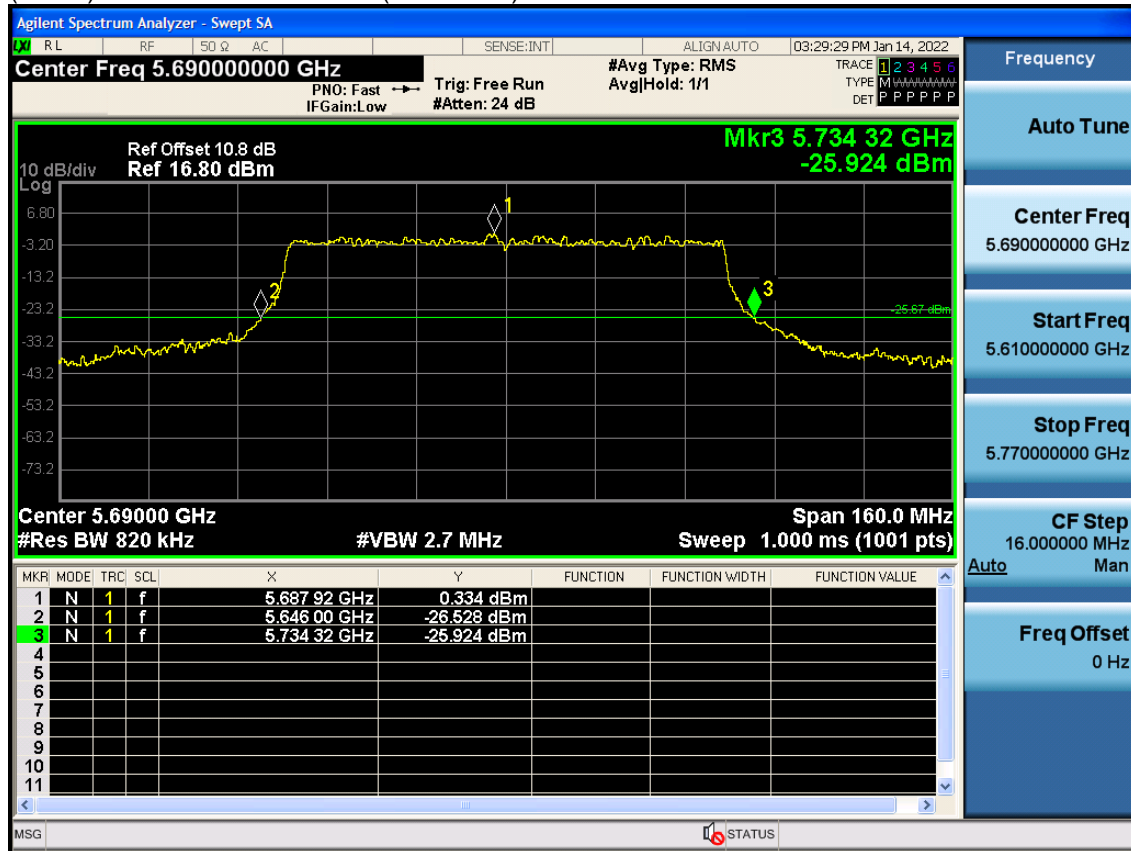


UNII 2C	5725 [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725.00	5688.48	36.52
UNII 3	Measured Frequency [MHz]	5725 [MHz]	26dB Bandwidth [MHz]
	5732.16	5725.00	7.16

Note:

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

(26 dB) Bandwidth 80M Ch.138(5690 MHz) RU 67



UNII 2C	5725 [MHz]	Measured Frequency [MHz]	26dB Bandwidth [MHz]
	5725.00	5646.00	79.00
UNII 3	Measured Frequency [MHz]	5725 [MHz]	26dB Bandwidth [MHz]
	5734.32	5725	9.32

Note:

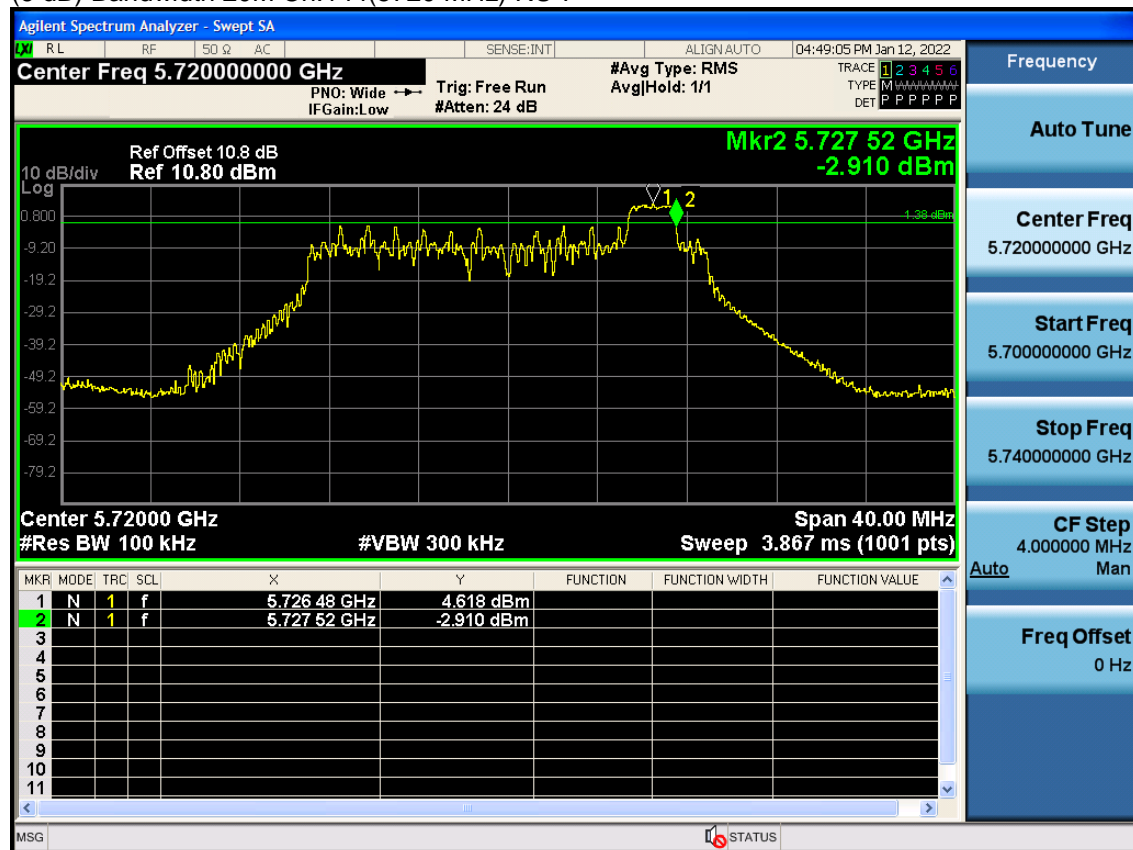
1. [UNII 2C] 26 dB Bandwidth = 5725 MHz - Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] - 5725 MHz

5.2 6 dB Bandwidth

Note:

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

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



Measured Frequency [MHz]	Measured Frequency [MHz]	6dB Bandwidth [MHz]
5727.52	5725.00	2.52

Note:

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

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

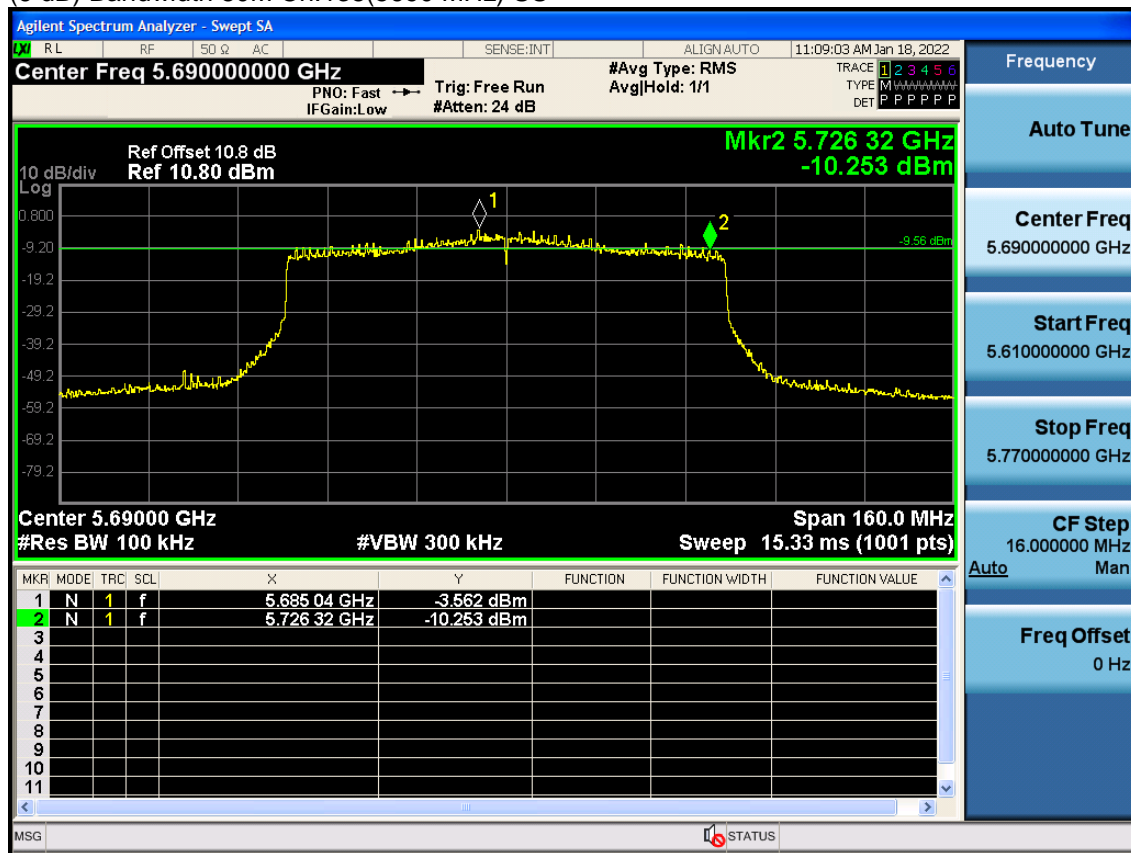


Measured Frequency [MHz]	Measured Frequency [MHz]	6dB Bandwidth [MHz]
5727.04	5725.00	2.04

Note:

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

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



Measured Frequency [MHz]	Measured Frequency [MHz]	6dB Bandwidth [MHz]
5726.32	5725.00	1.32

Note:

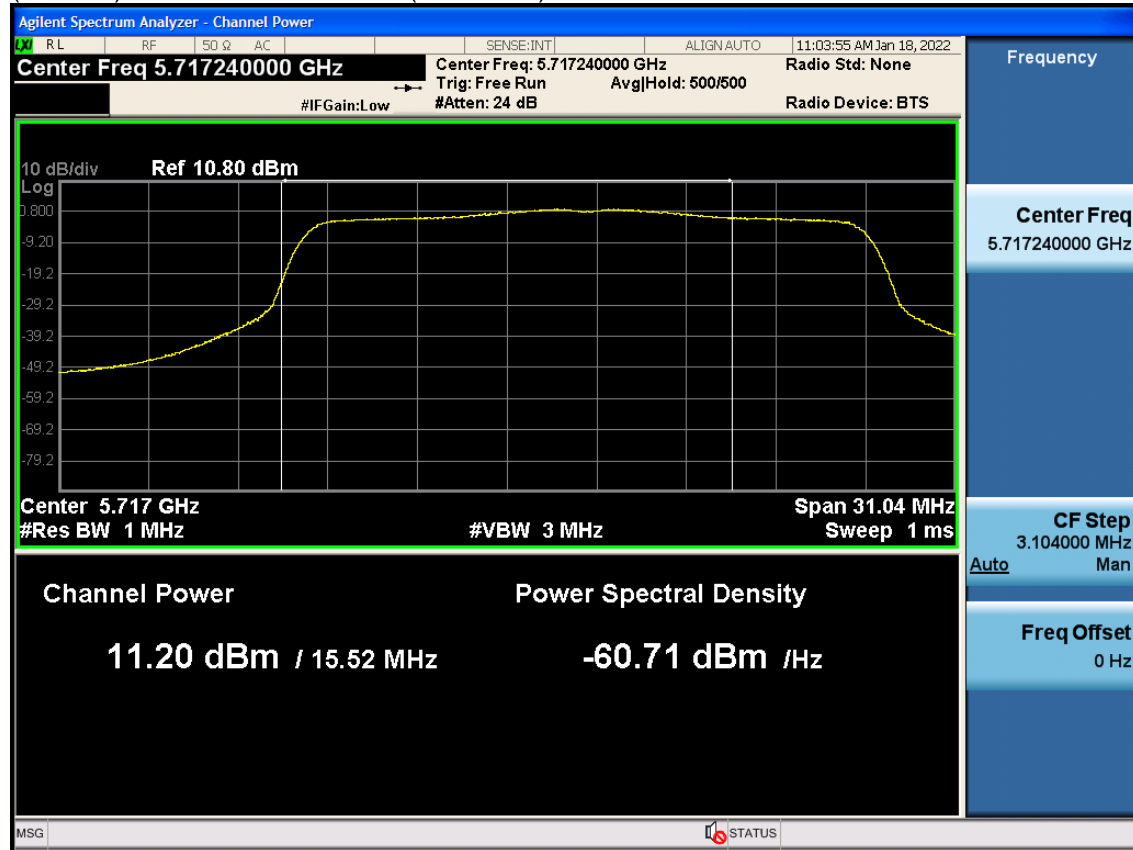
6 dB Bandwidth = Measured Frequency[MHz] – 5725_MHz

5.3 Output Power

Note:

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

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

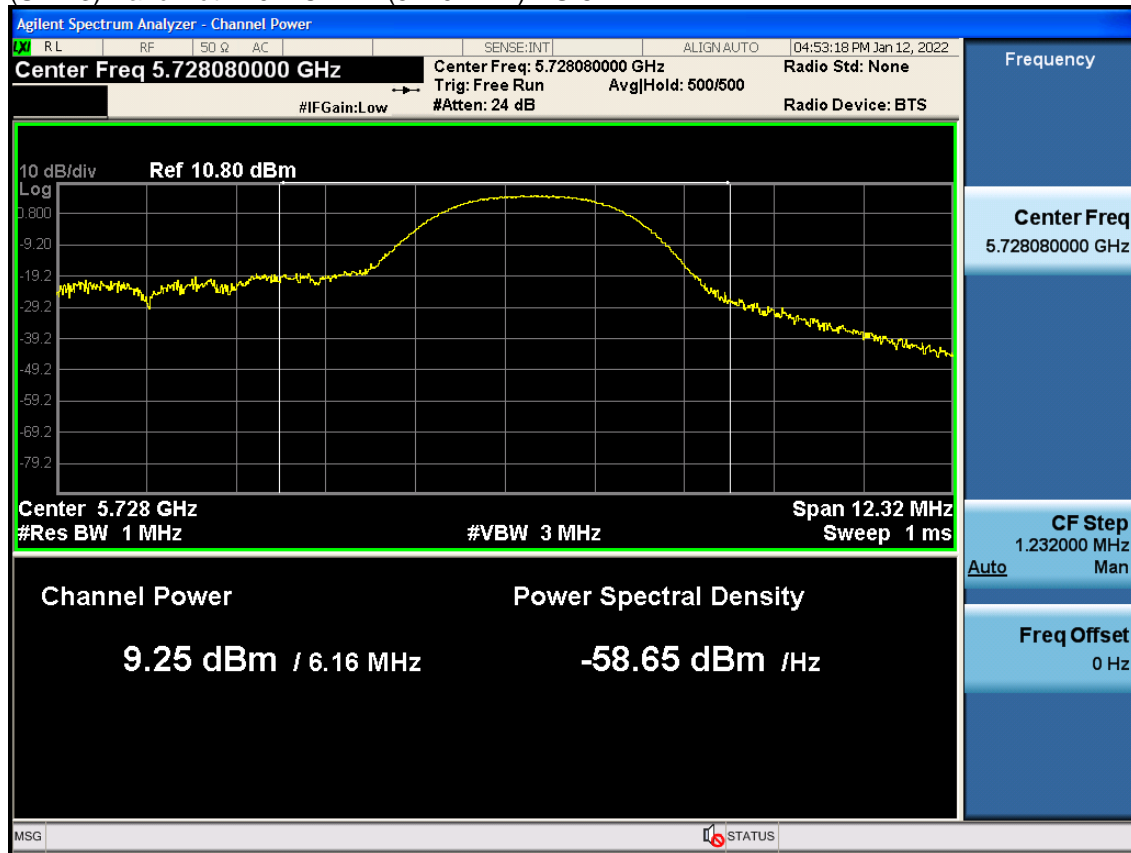


Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.20	0.061	11.26

Note:

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

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

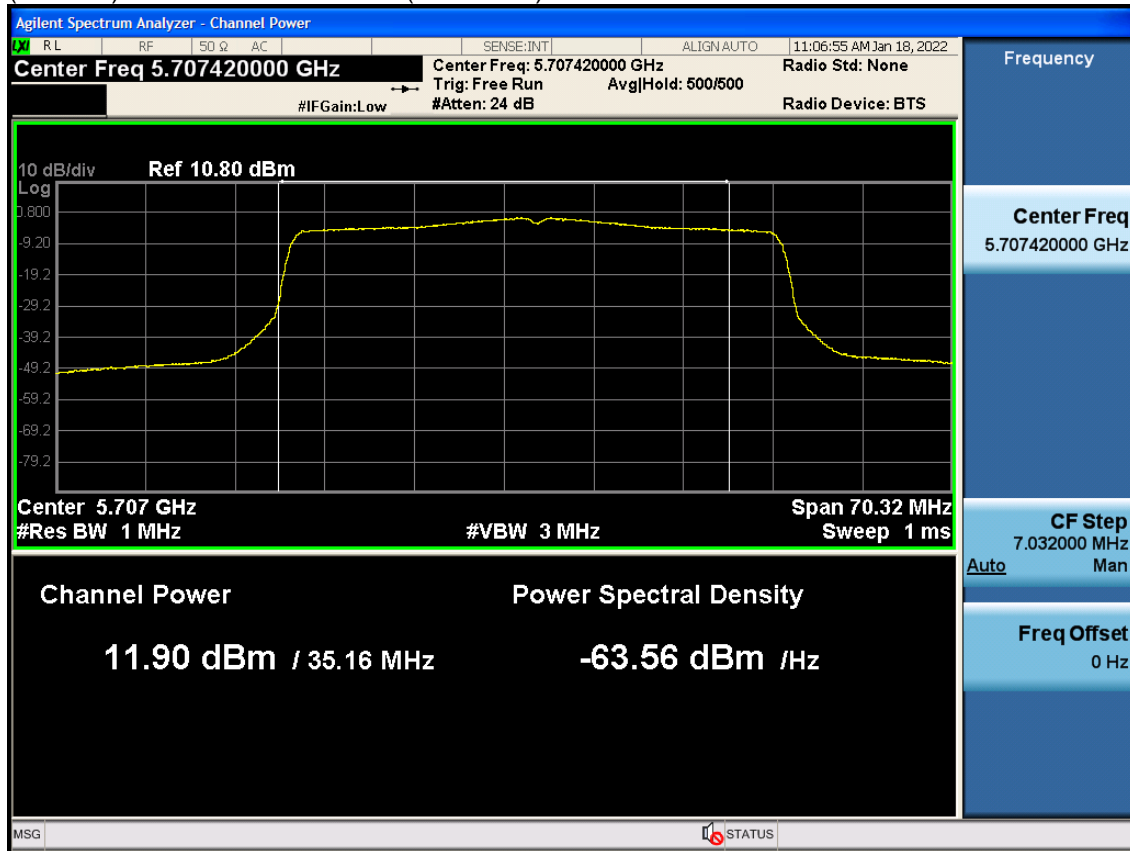


Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
9.25	0.016	9.27

Note:

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

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

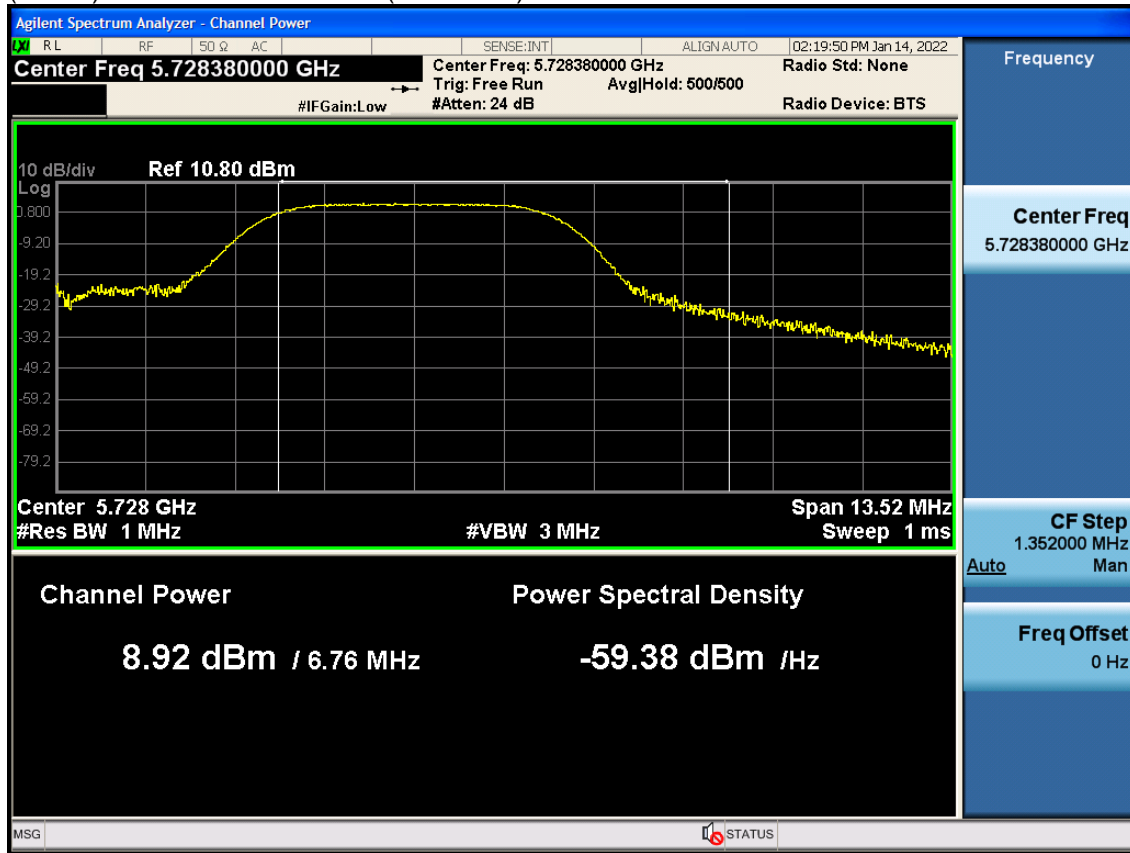


Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
11.90	0.115	12.02

Note:

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

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

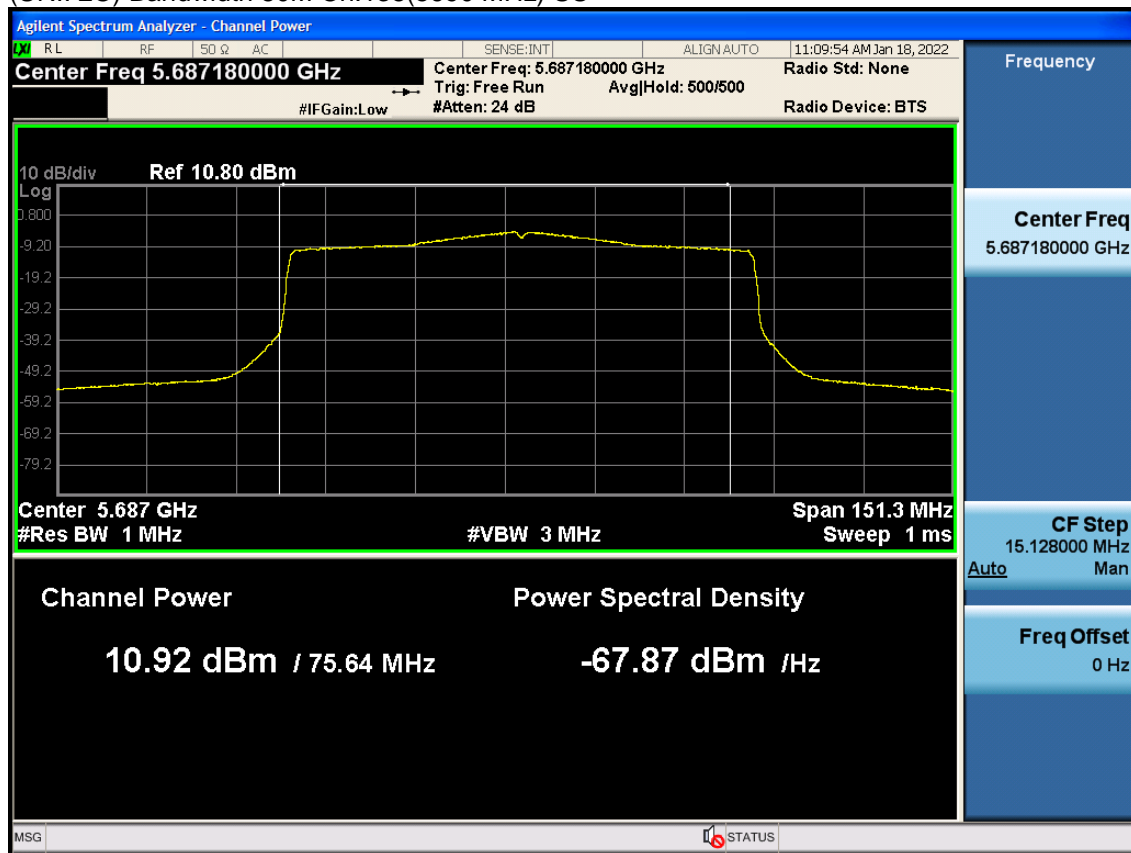


Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.92	0.013	8.93

Note:

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

(UNII 2C) Bandwidth 80M Ch.138(5690 MHz) SU

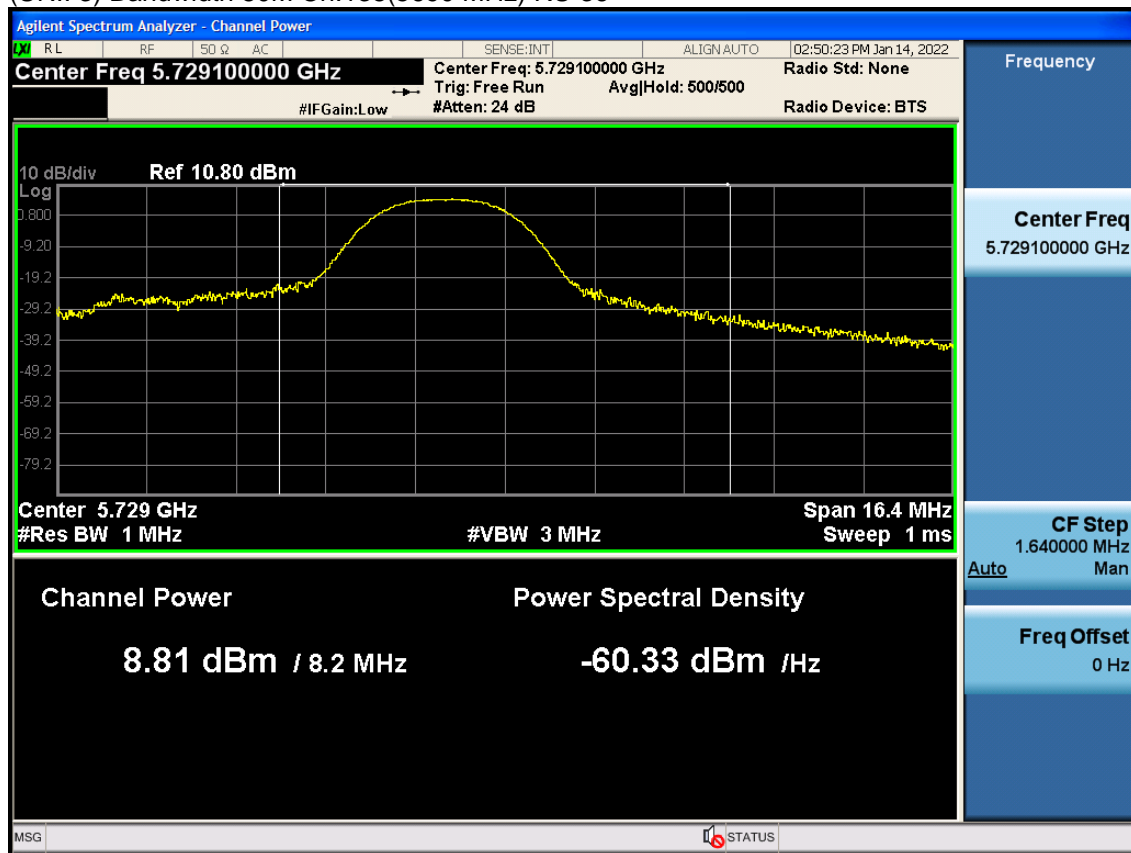


Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
10.92	0.181	11.10

Note:

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

(UNII 3) Bandwidth 80M Ch.138(5690 MHz) RU 36



Measured Level (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)
8.81	0.016	8.83

Note:

Total Power (dBm) = Measured Level (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.

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



Measured Level (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.732	0.016	6.748

Note:

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

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

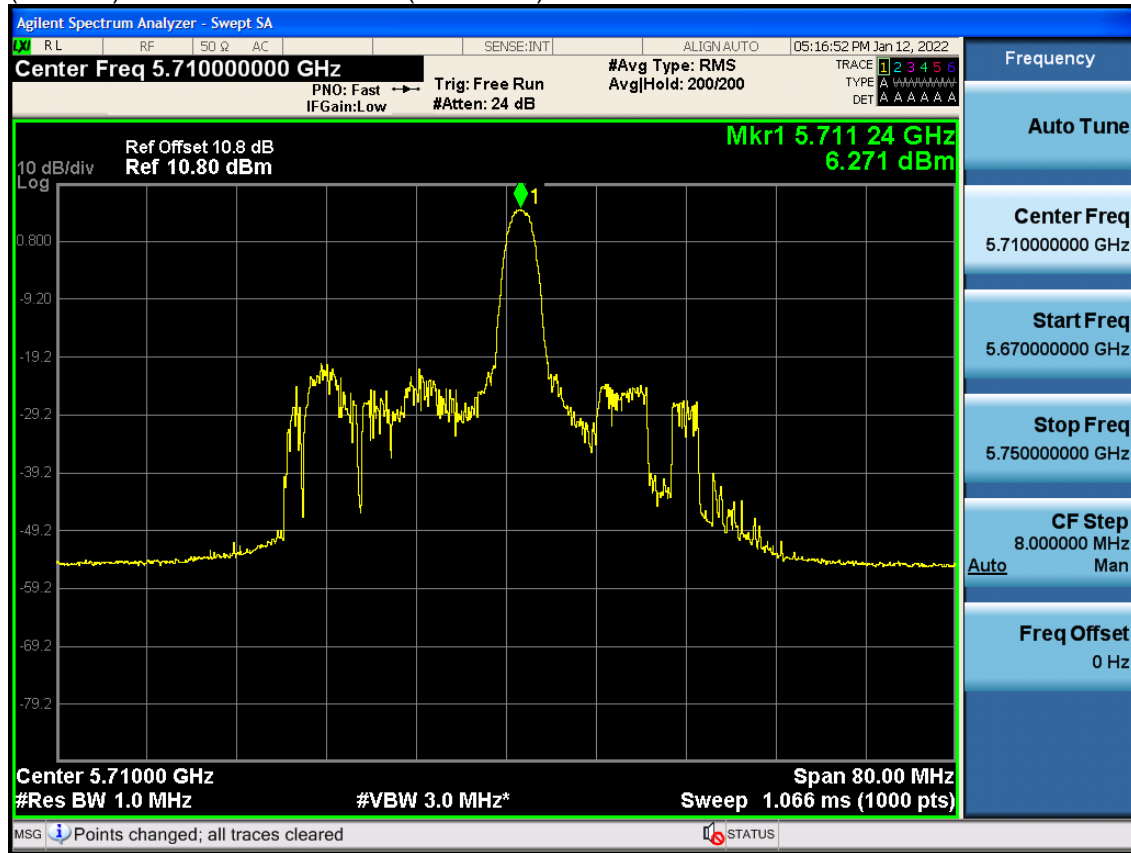


Measured Level (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.837	0.016	3.853

Note:

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

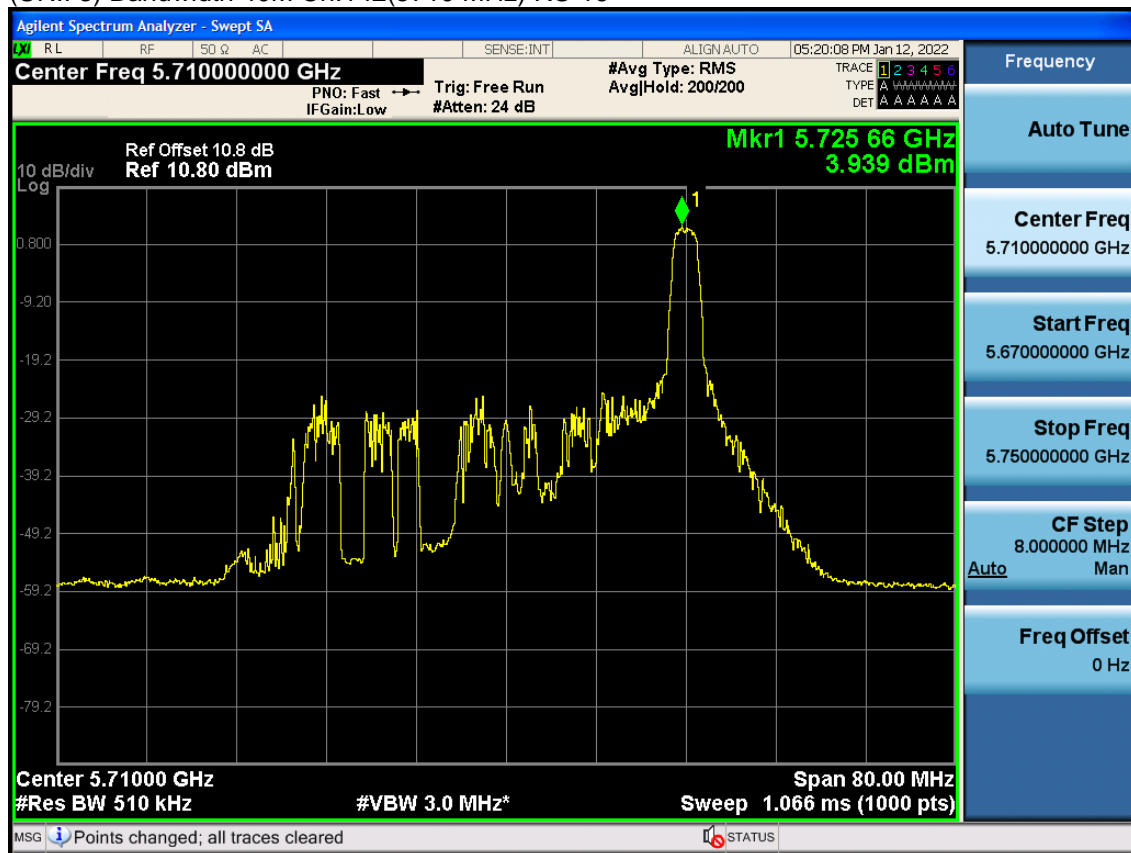
(UNII 2C) Bandwidth 40M Ch.142(5710 MHz) RU 9



Note:

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

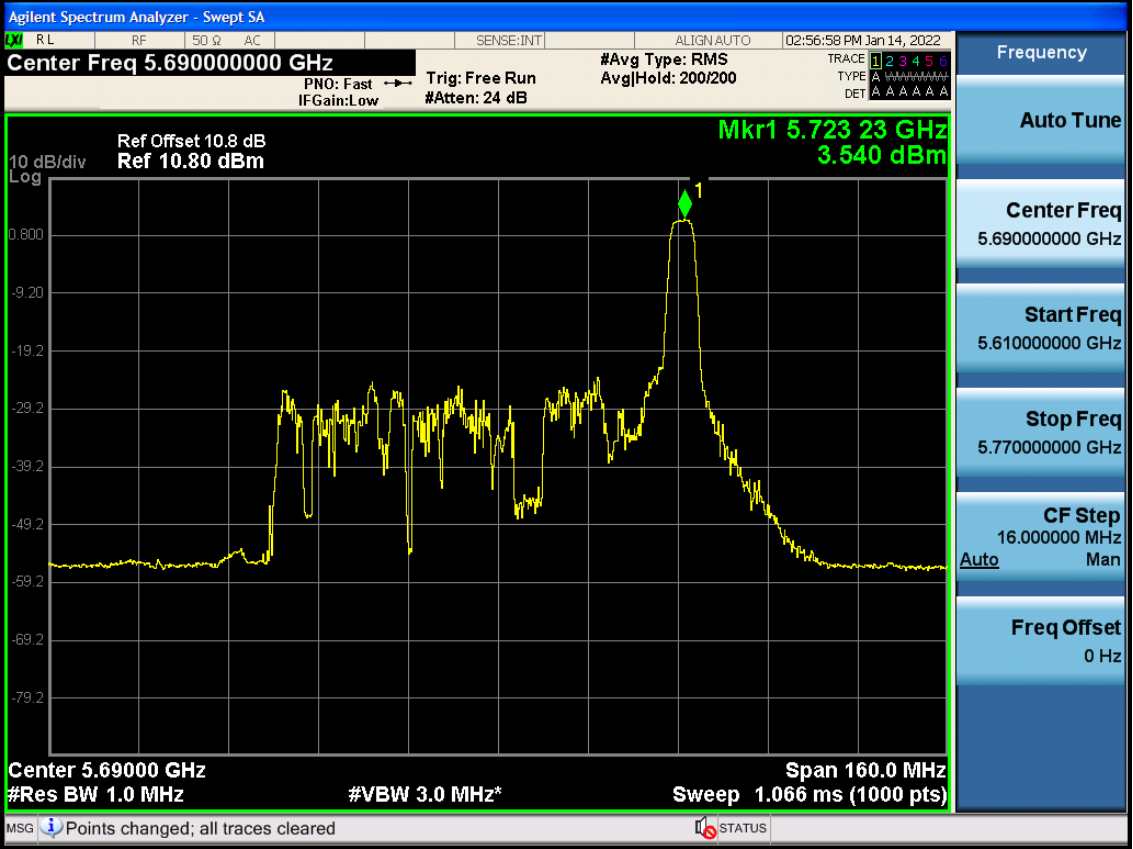
(UNII 3) Bandwidth 40M Ch.142(5710 MHz) RU 16



Note:

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

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

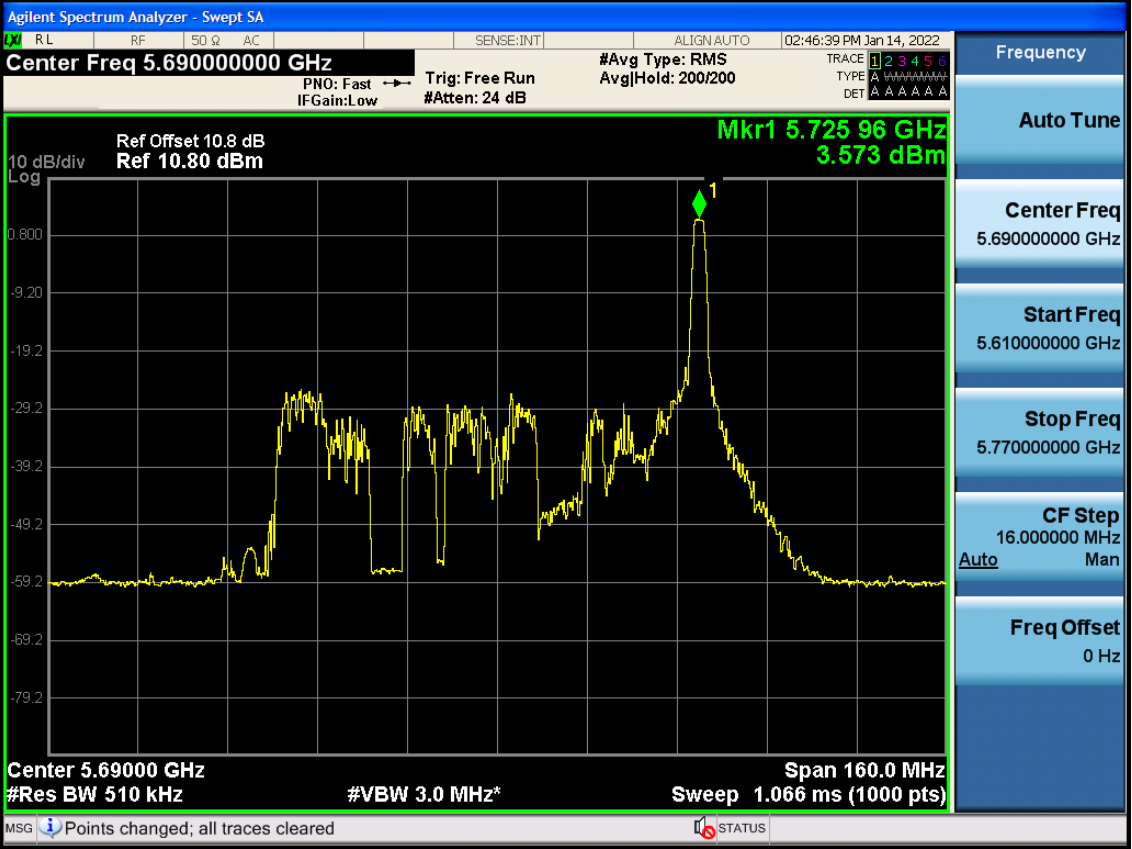


Measured Level (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.540	0.016	3.556

Note:

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

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



Measured Level (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
3.573	0.016	3.589

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