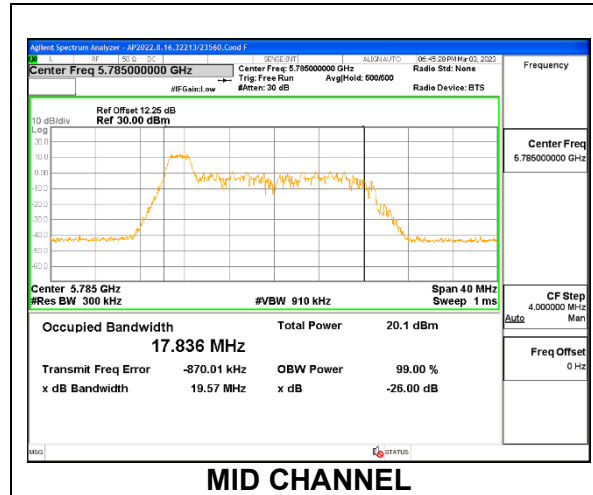


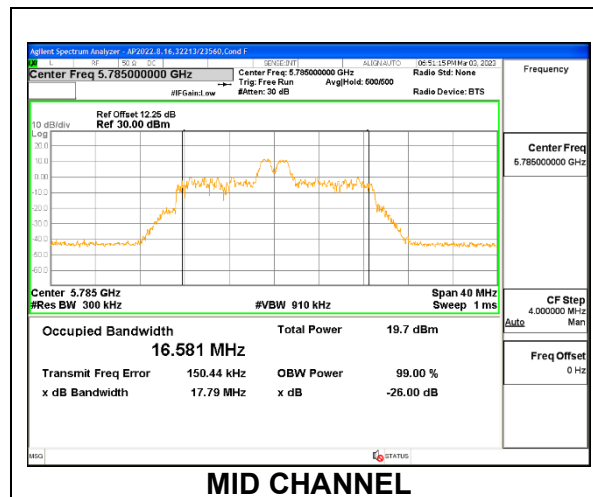
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	18.141
Mid	5785	17.836
High	5825	18.252



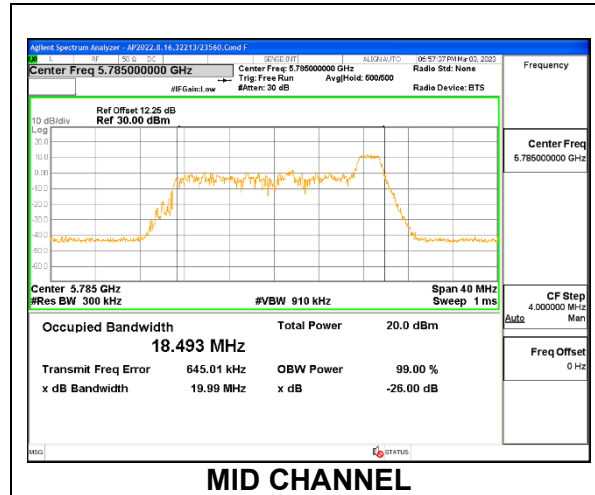
1TX Antenna 5 MODE: 26-Tone, RU Index 4

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	16.727
Mid	5785	16.581
High	5825	16.949



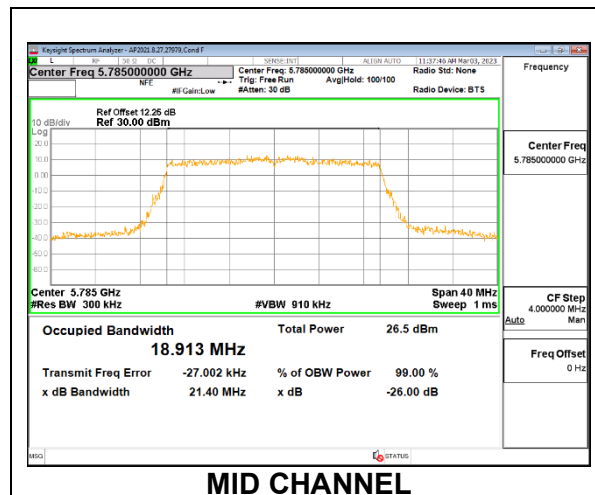
1TX Antenna 5 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	18.465
Mid	5785	18.493
High	5825	18.250



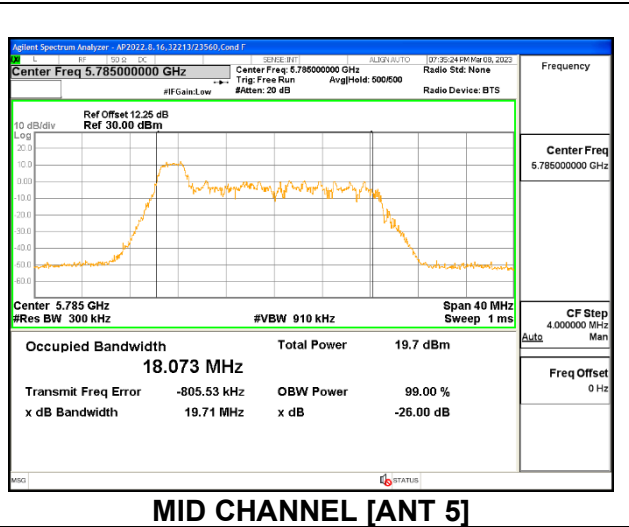
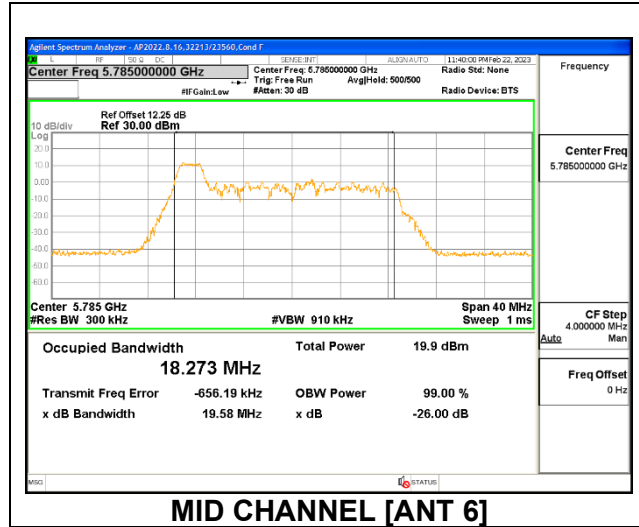
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	18.914
Mid	5785	18.913
High	5825	18.980



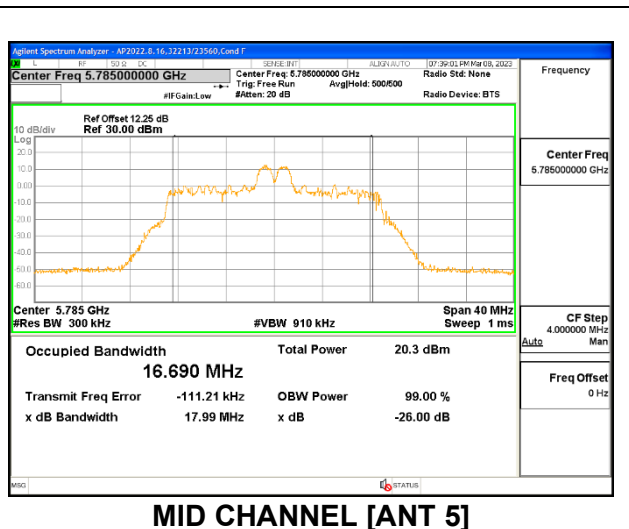
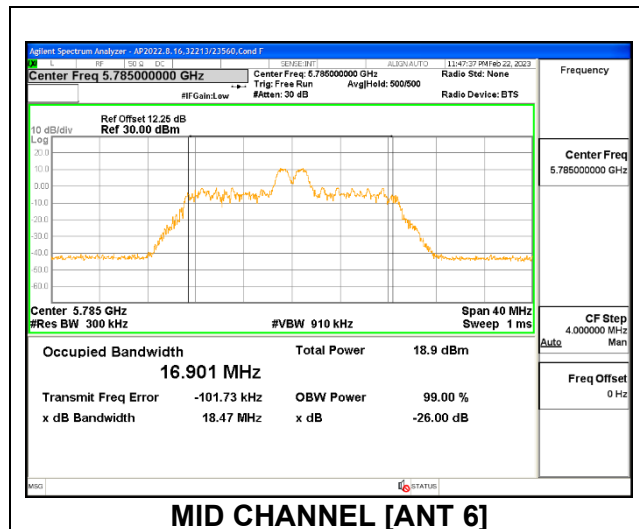
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5745	18.163	18.079
Mid	5785	18.273	18.073
High	5825	18.214	18.165



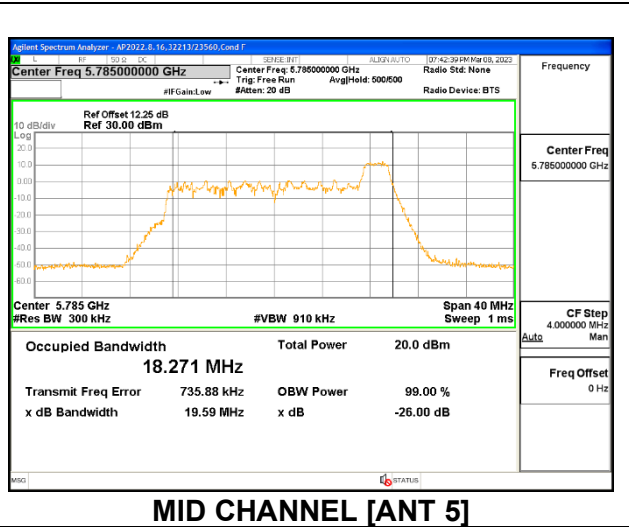
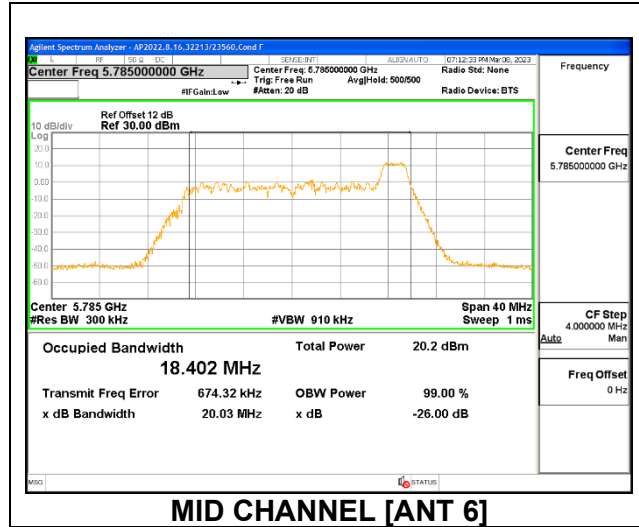
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 4

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5745	16.994	16.797
Mid	5785	16.901	16.690
High	5825	16.981	16.384



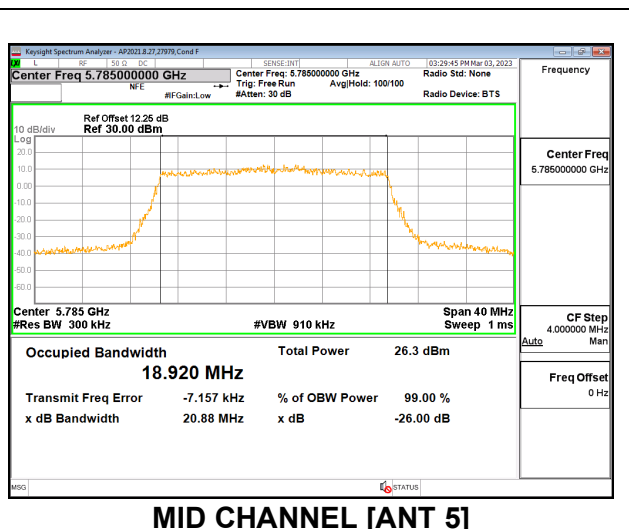
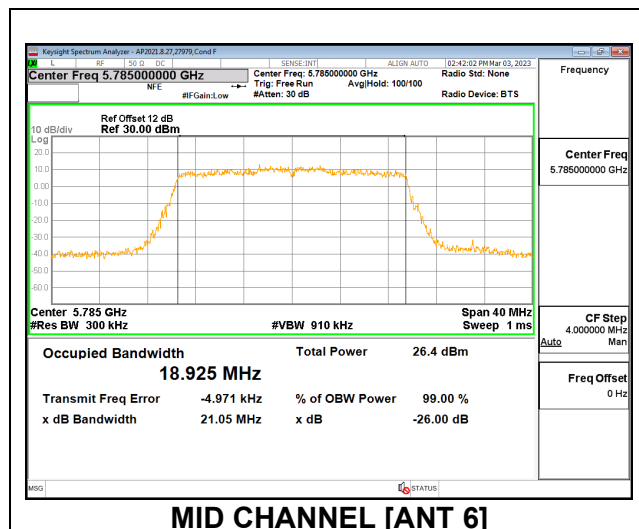
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5745	18.400	18.315
Mid	5785	18.402	18.271
High	5825	18.448	18.307



2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

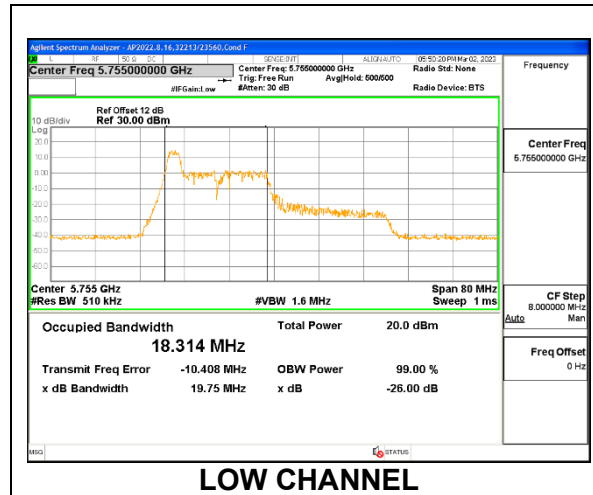
Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5745	18.963	18.948
Mid	5785	18.925	18.920
High	5825	18.944	18.928



9.2.27. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

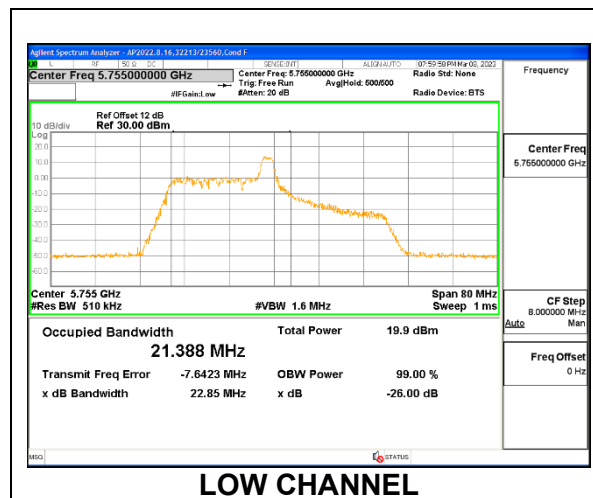
1TX Antenna 6 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	18.314
High	5795	18.372



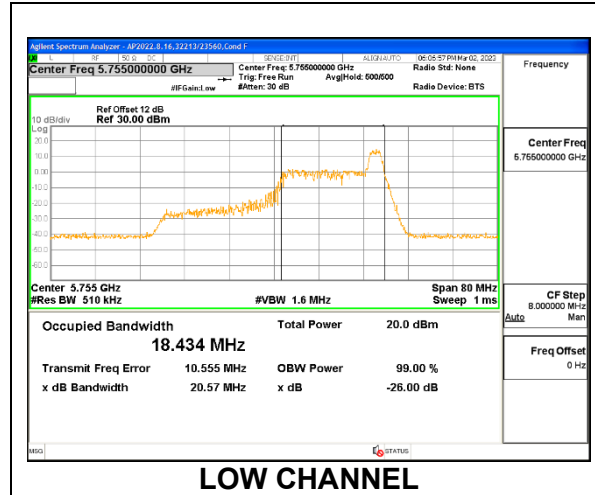
1TX Antenna 6 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	21.388
High	5795	21.576



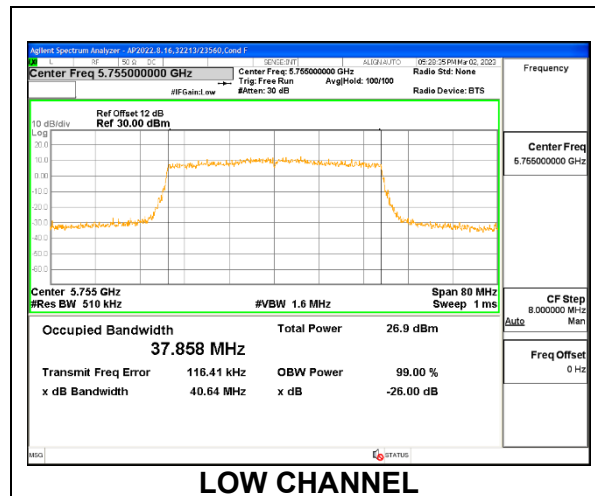
1TX Antenna 6 MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	18.434
High	5795	18.589



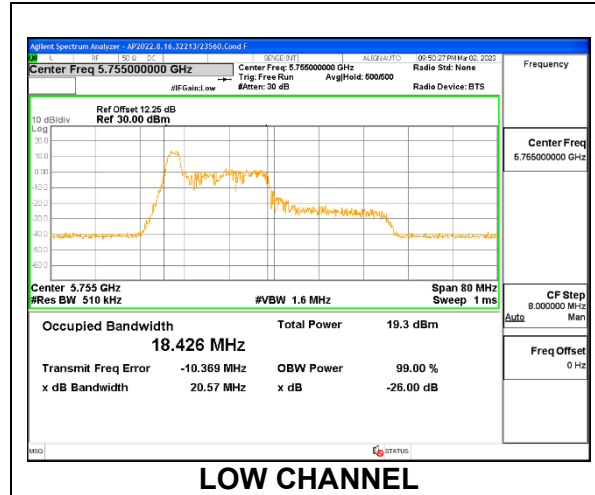
1TX Antenna 6 MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	37.858
High	5795	37.833



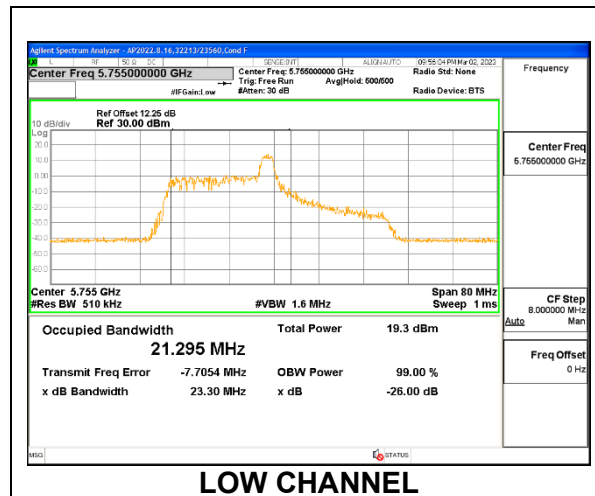
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	18.426
High	5795	18.203



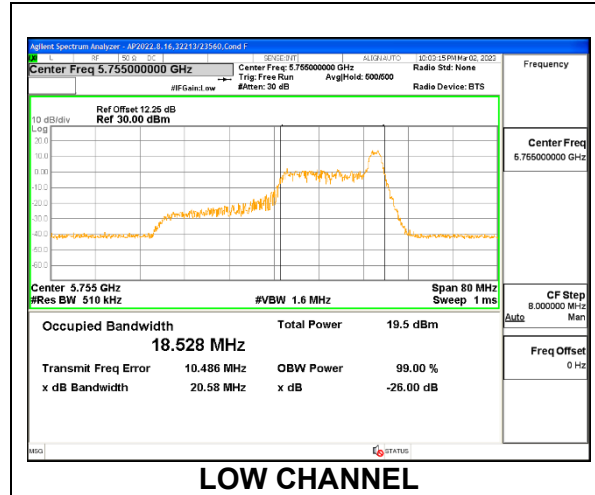
1TX Antenna 5 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	21.295
High	5795	21.411



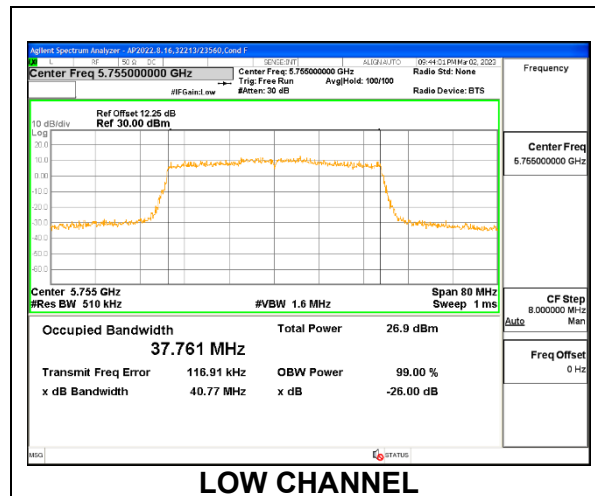
1TX Antenna 5 MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	18.528
High	5795	18.377



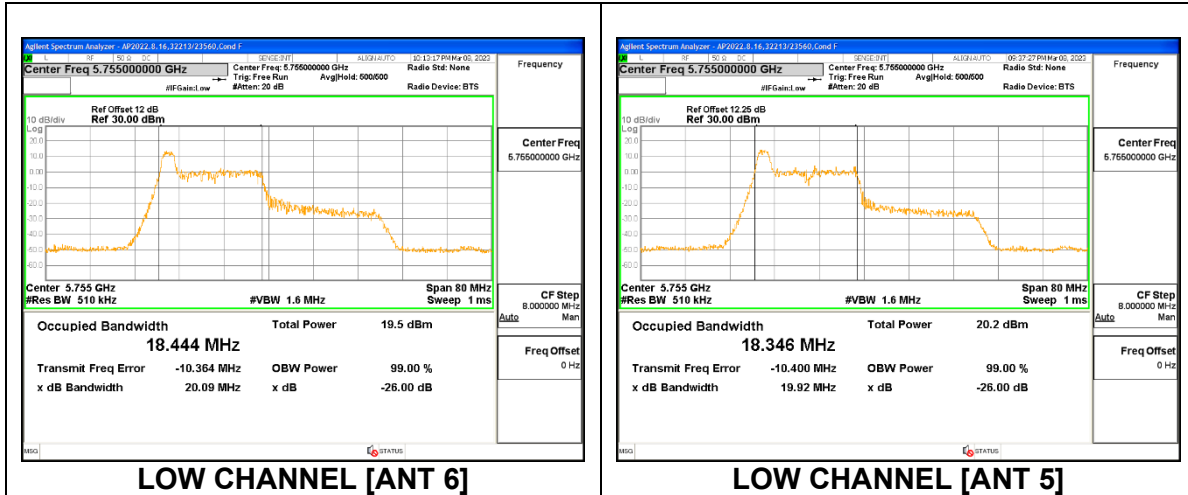
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	37.761
High	5795	37.813



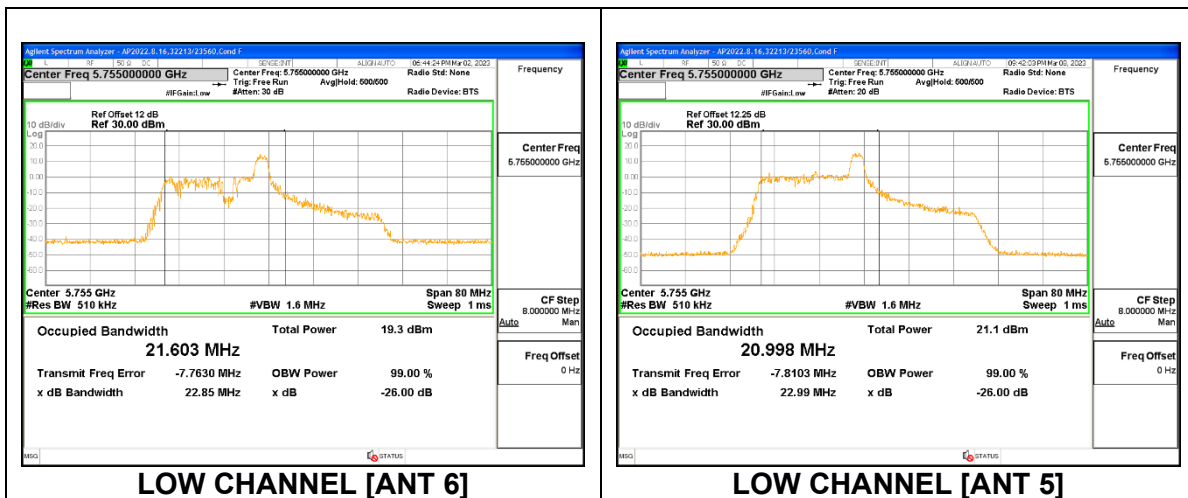
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	18.444	18.346
High	5795	18.390	18.165



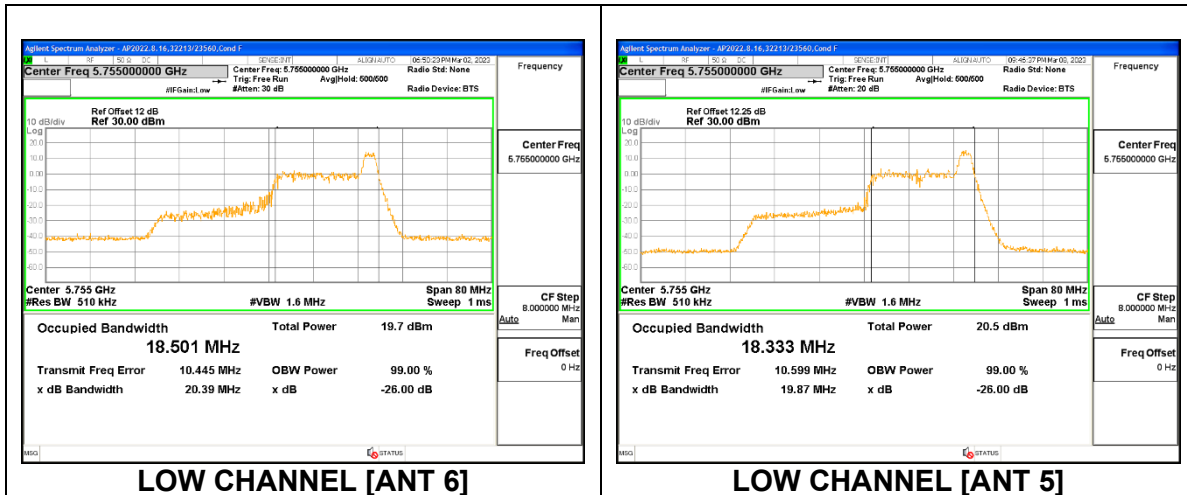
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	21.603	20.998
High	5795	21.528	20.856



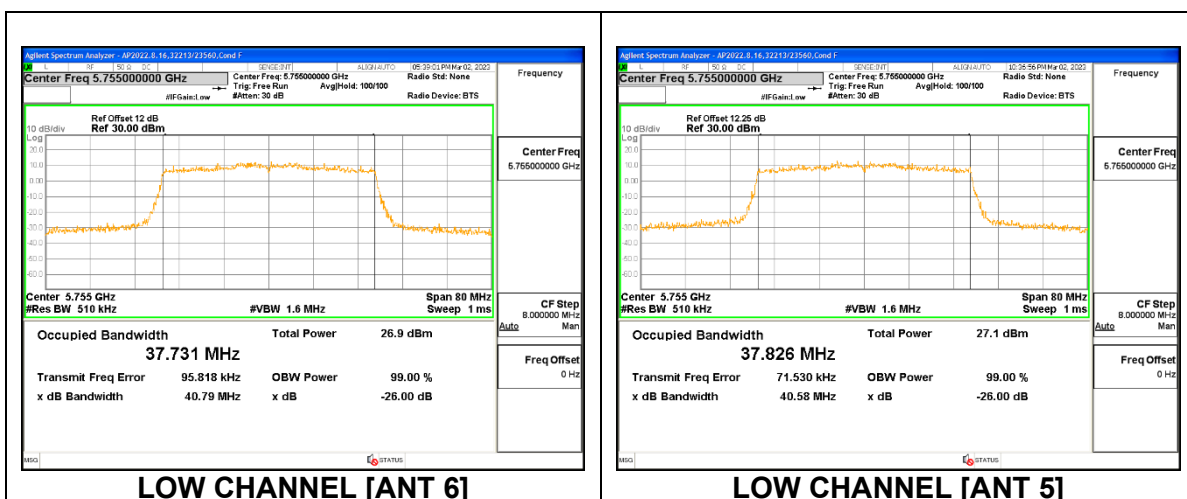
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	18.501	18.333
High	5795	18.422	18.241



2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

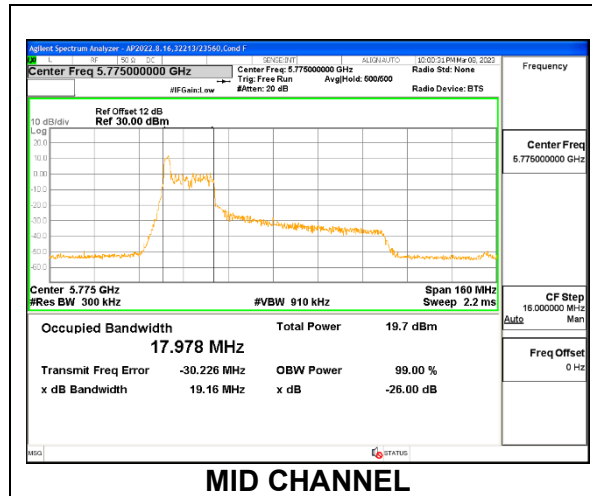
Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	37.731	37.826
High	5795	37.850	37.771



9.2.28. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

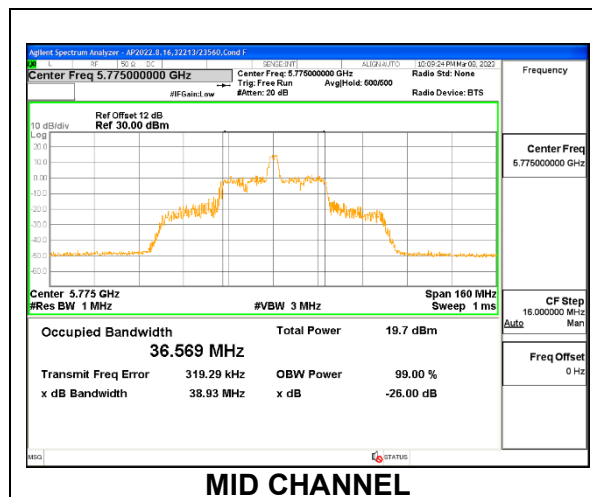
1TX Antenna 6 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	17.978



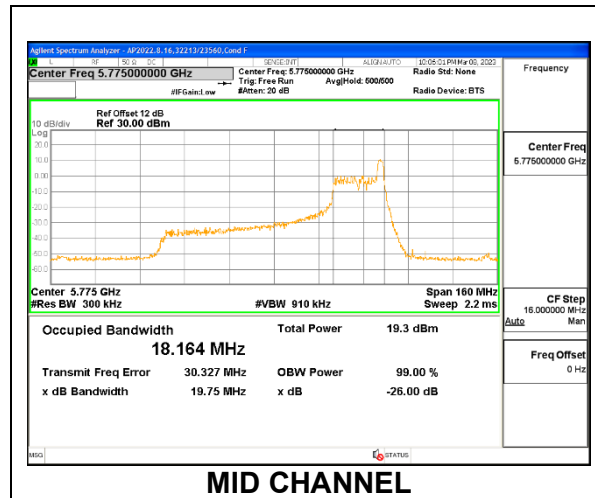
1TX Antenna 6 MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	36.569



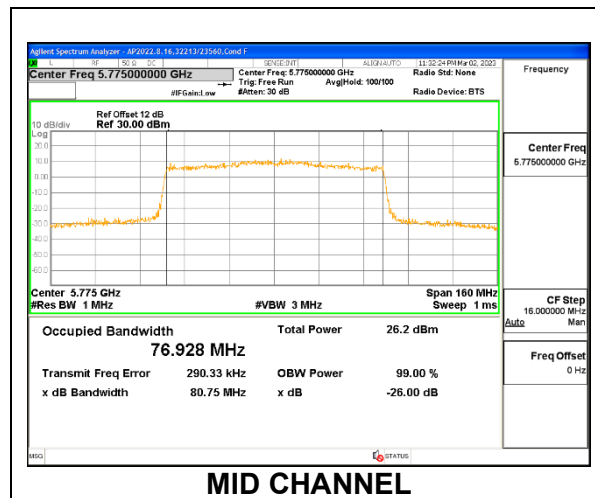
1TX Antenna 6 MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	18.164



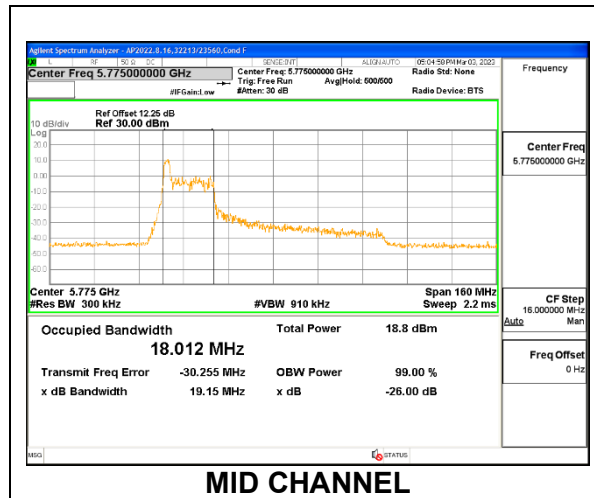
1TX Antenna 6 MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	76.928



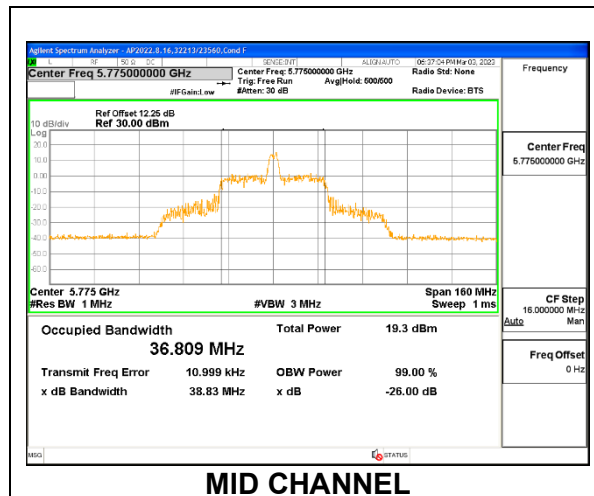
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	18.012



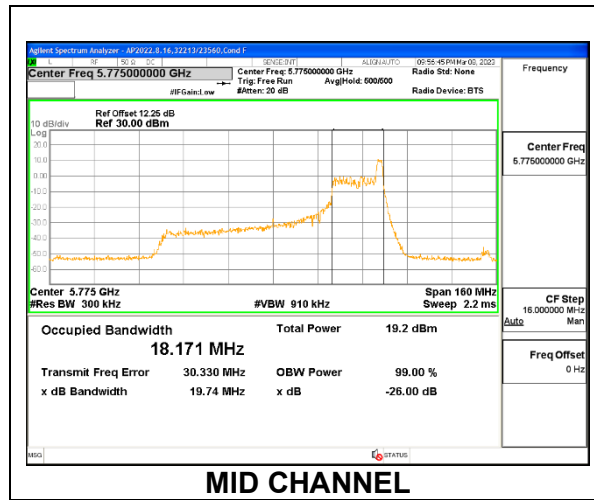
1TX Antenna 5 MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	36.809



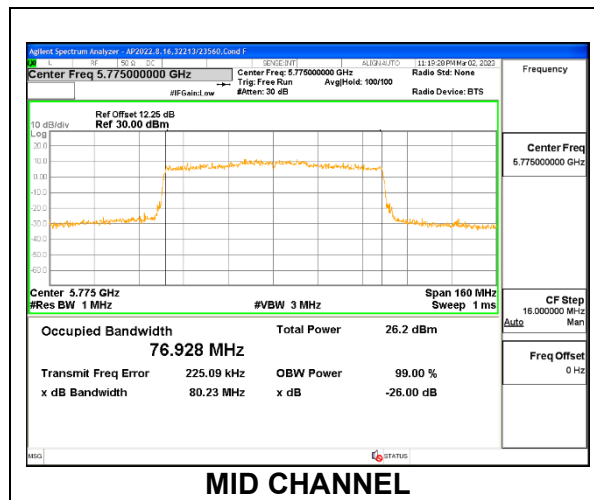
1TX Antenna 5 MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	18.171



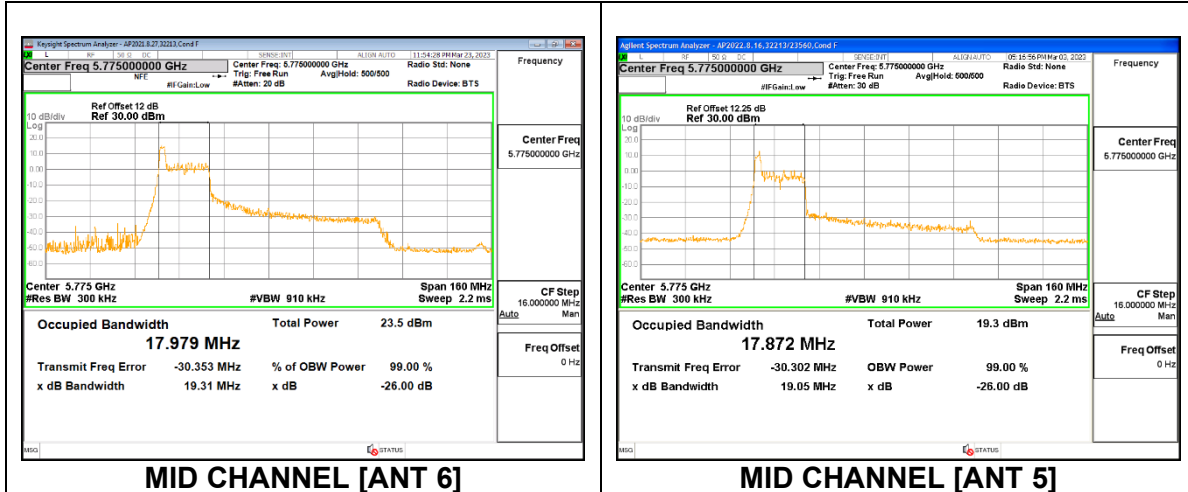
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	76.928



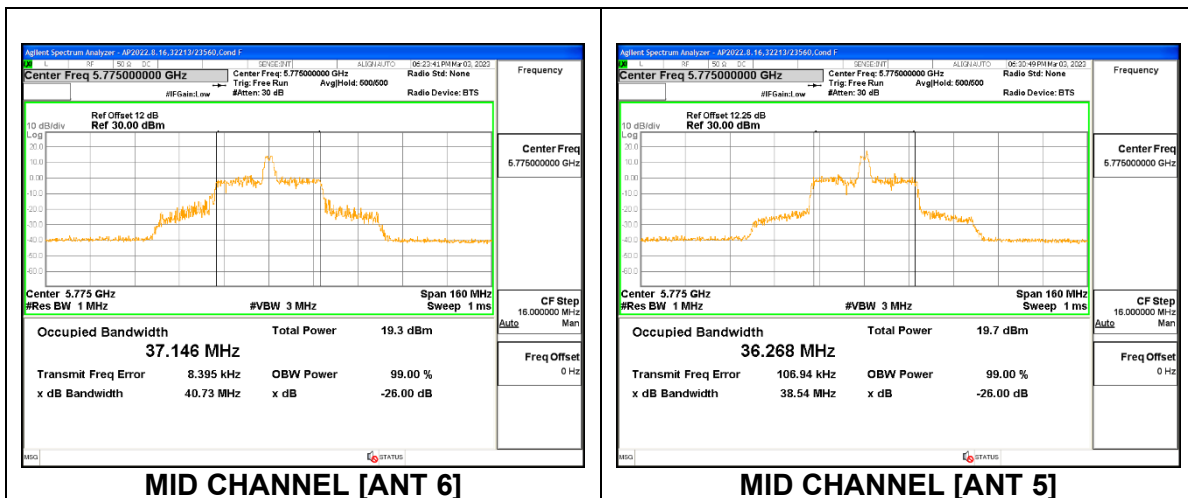
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	17.979	17.872



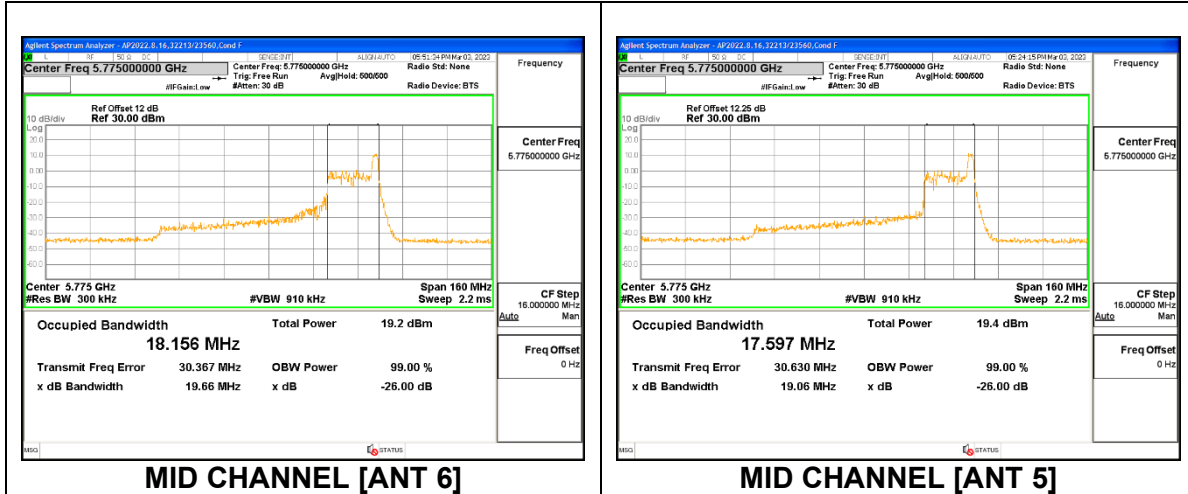
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	37.146	36.268



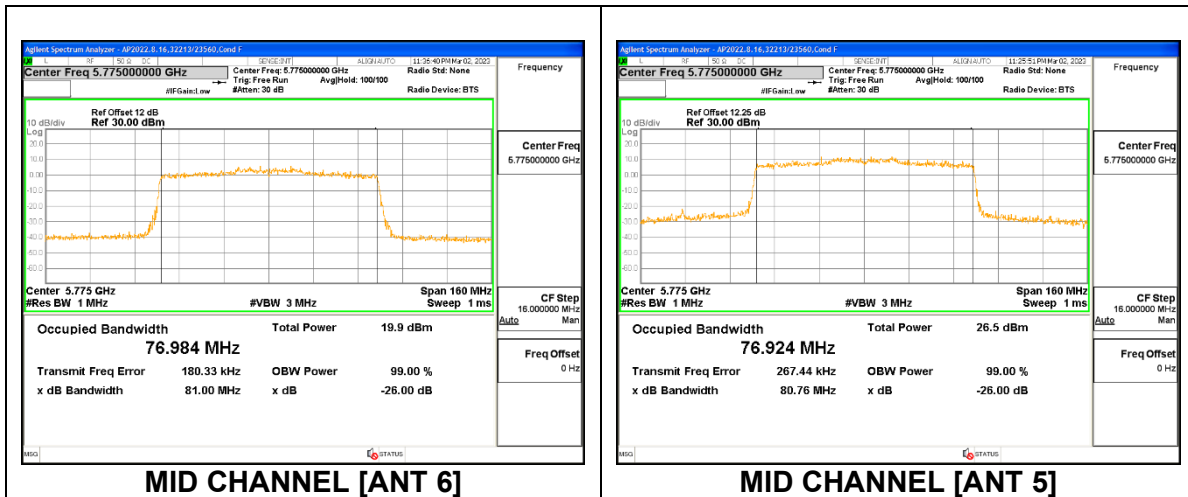
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	18.156	17.597



2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	76.984	76.924



9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

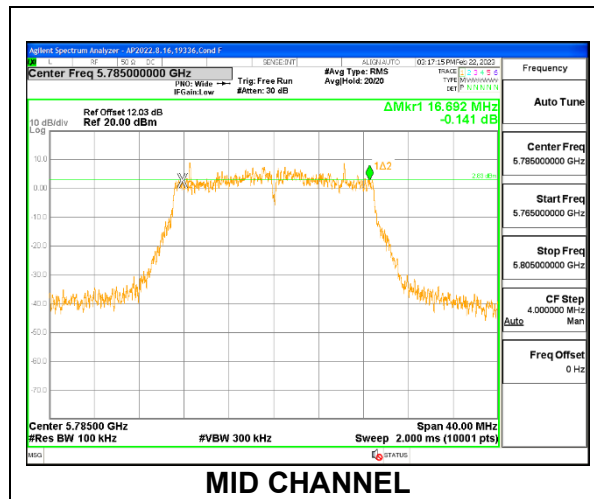
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

9.3.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE

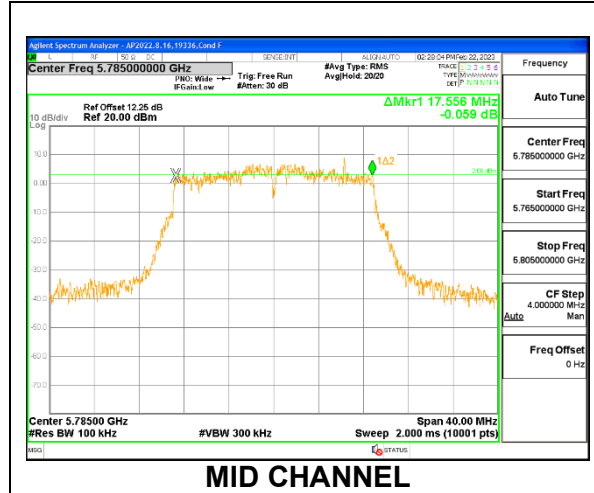
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.532	0.5
Mid	5785	16.692	0.5
High	5825	17.544	0.5
144	5720	3.892	0.5



MID CHANNEL

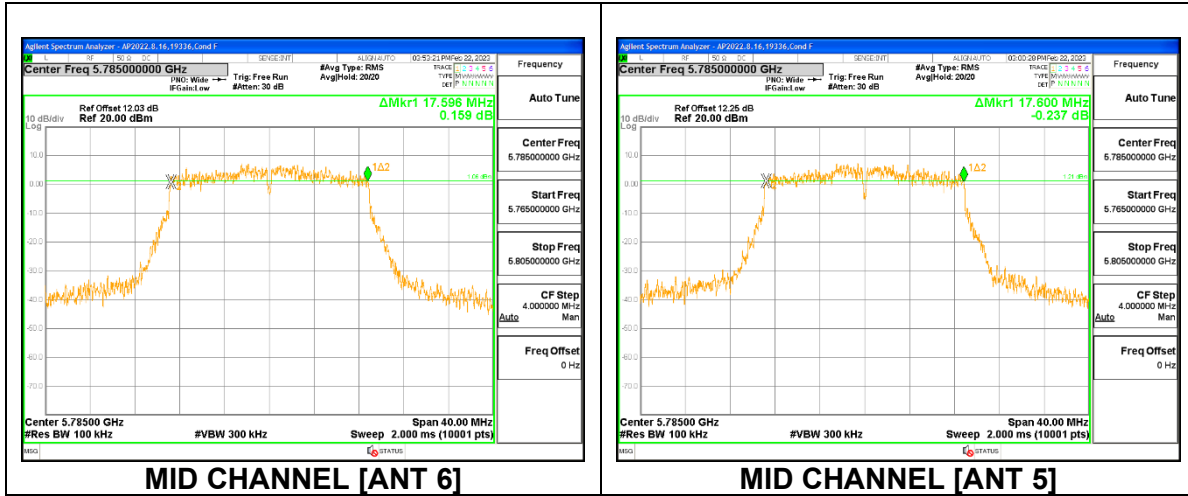
1TX Antenna 5 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.580	0.5
Mid	5785	17.556	0.5
High	5825	17.152	0.5
144	5720	3.904	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

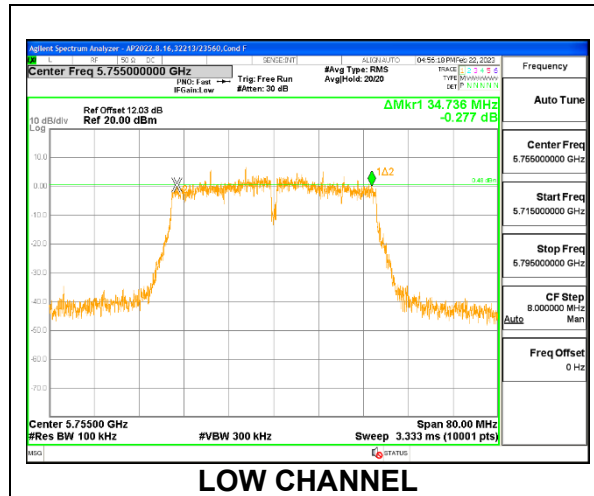
Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	17.604	17.568	0.5
Mid	5785	17.596	17.600	0.5
High	5825	14.664	17.552	0.5
144	5720	3.816	3.796	0.5



9.3.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

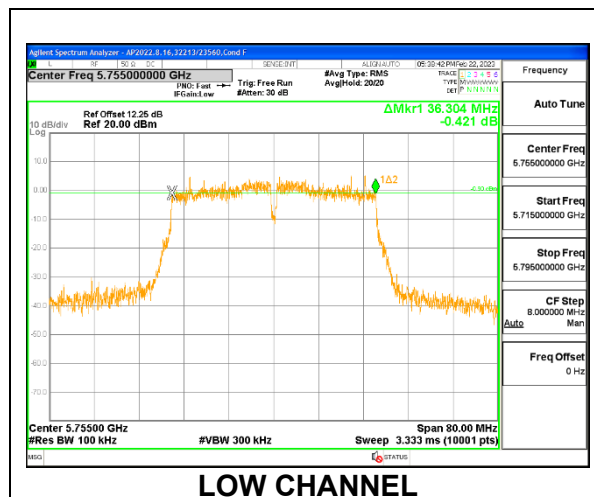
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	34.736	0.5
High	5795	34.824	0.5
142	5710	3.280	0.5



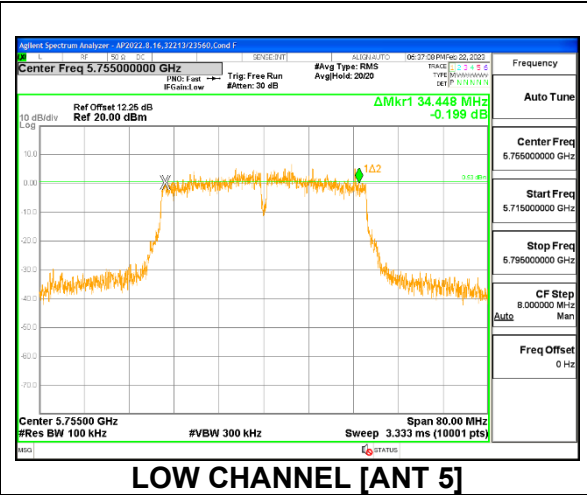
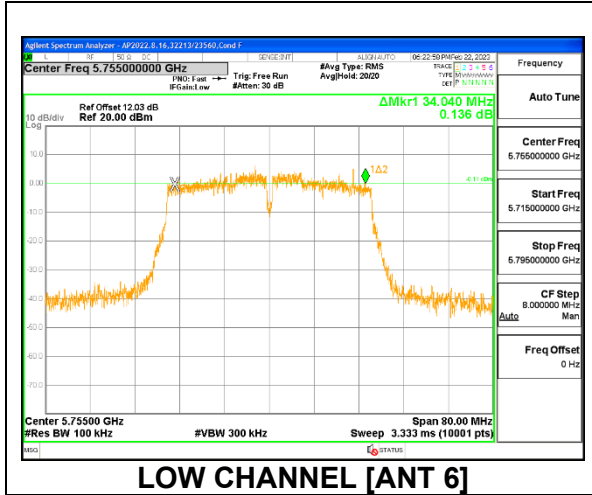
1TX Antenna 5 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	36.304	0.5
High	5795	34.928	0.5
142	5710	3.216	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

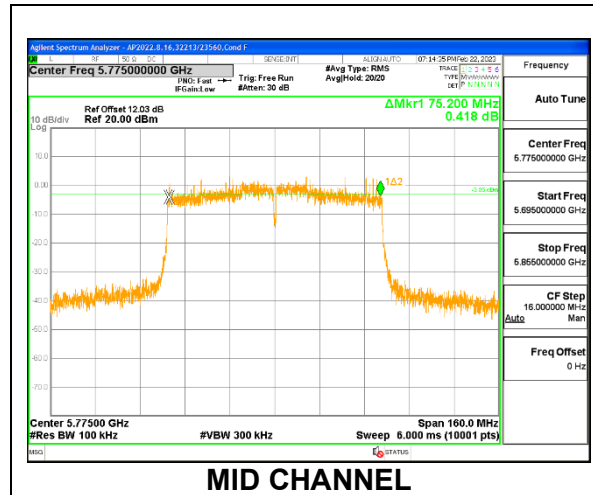
Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	34.040	34.448	0.5
High	5795	35.112	34.744	0.5
142	5710	3.200	3.184	0.5



9.3.3. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

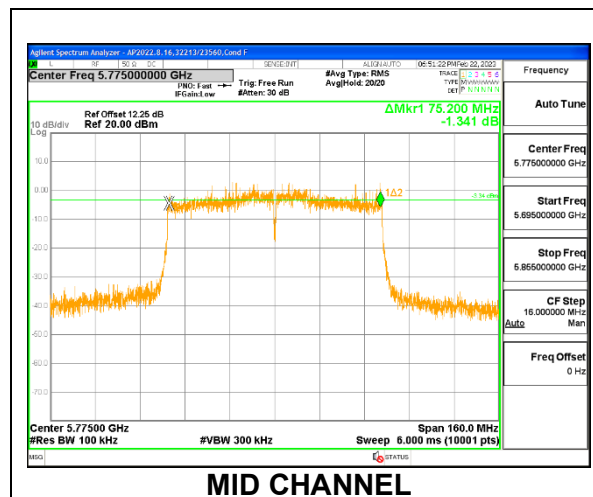
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.200	0.5
138	5690	3.192	0.5



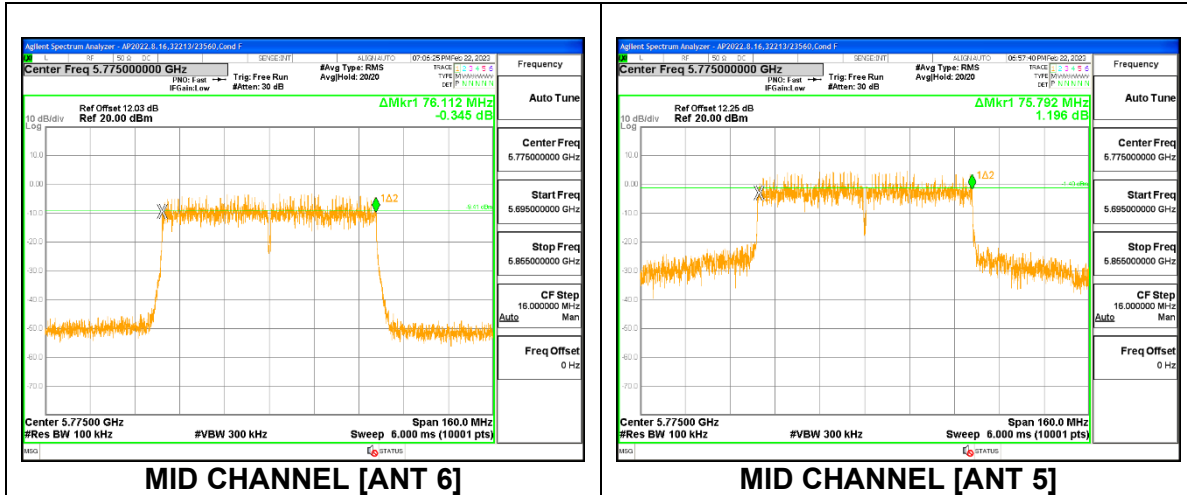
1TX Antenna 5 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.200	0.5
138	5690	3.224	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

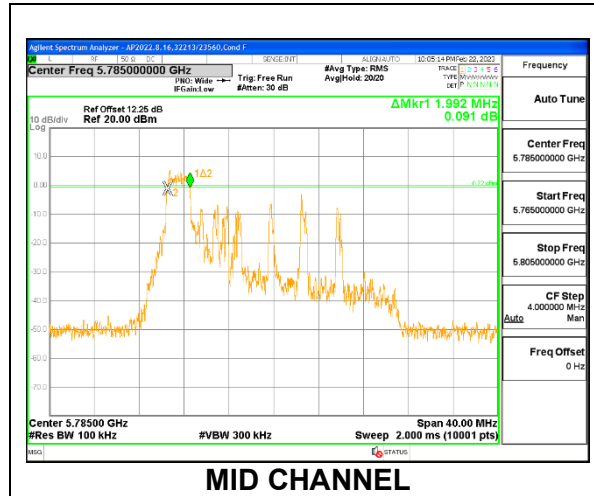
Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	76.112	75.792	0.5
138	5690	3.160	3.224	0.5



9.3.4. 802.11ax HE20 MODE IN THE 5.8 GHz BAND

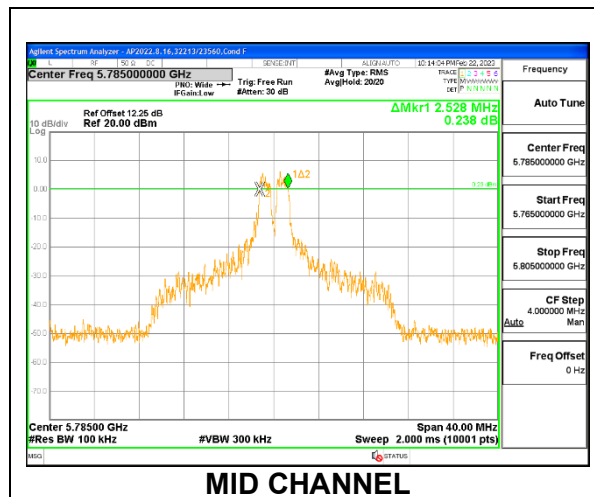
1TX Antenna 6 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	1.9988	0.5
Mid	5785	1.992	0.5
High	5825	2.028	0.5



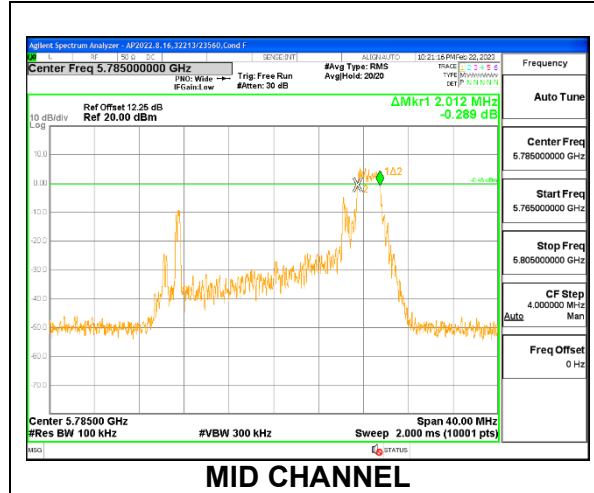
1TX Antenna 6 MODE: 26-Tone, RU Index 4

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.652	0.5
Mid	5785	2.528	0.5
High	5825	2.520	0.5



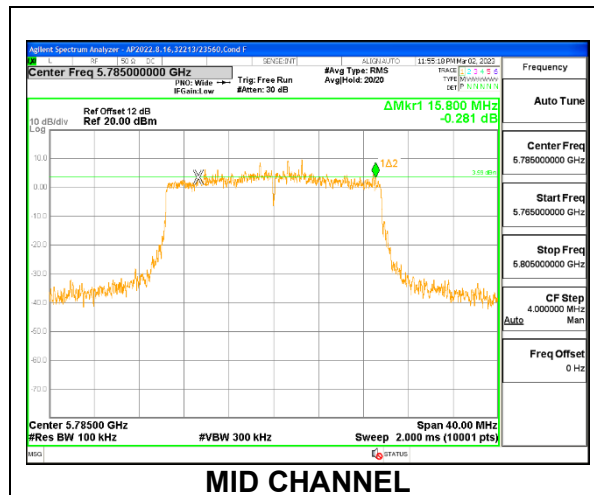
1TX Antenna 6 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	1.992	0.5
Mid	5785	2.012	0.5
High	5825	1.980	0.5
144	5720	2.000	0.5



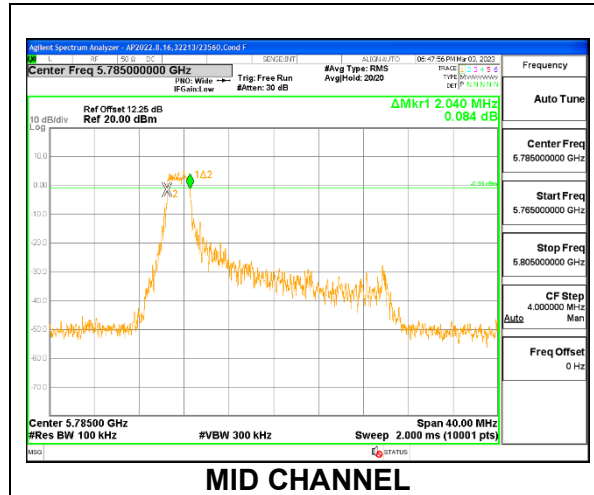
1TX Antenna 6 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	18.560	0.5
Mid	5785	15.800	0.5
High	5825	16.868	0.5
144	5720	4.532	0.5



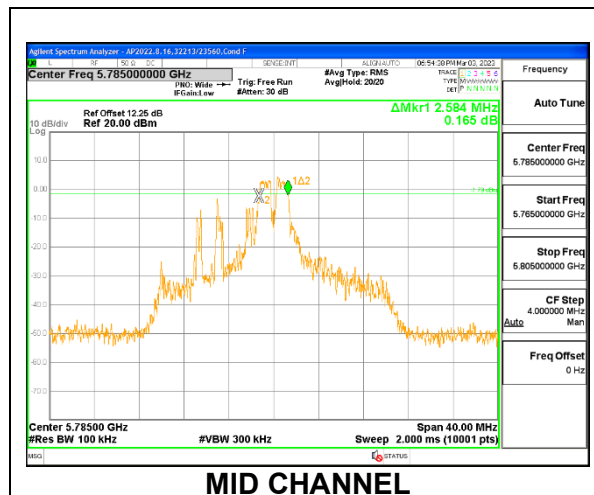
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.000	0.5
Mid	5785	2.040	0.5
High	5825	1.960	0.5



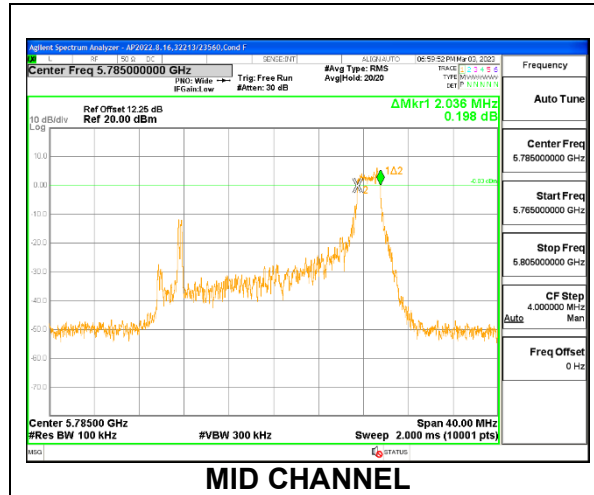
1TX Antenna 5 MODE: 26-Tone, RU Index 4

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.556	0.5
Mid	5785	2.584	0.5
High	5825	2.620	0.5



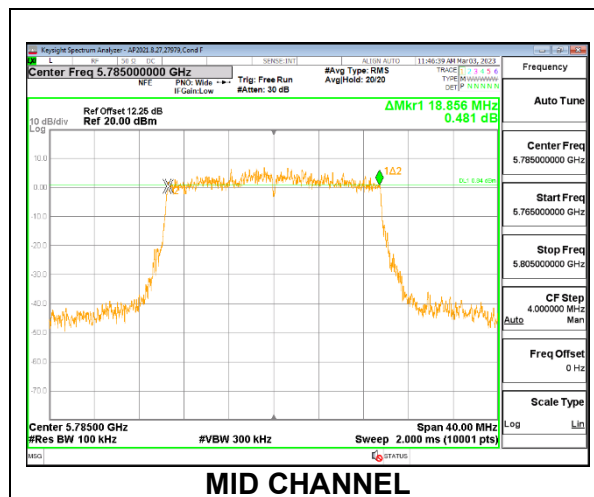
1TX Antenna 5 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.020	0.5
Mid	5785	2.036	0.5
High	5825	2.012	0.5
144	5720	2.000	0.5



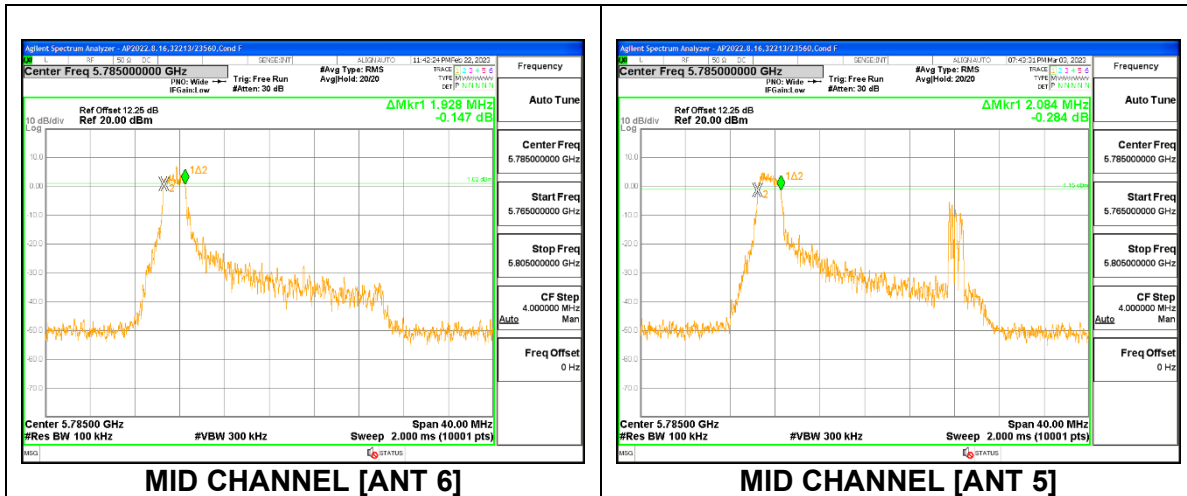
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	16.844	0.5
Mid	5785	18.856	0.5
High	5825	18.468	0.5
144	5720	4.368	0.5



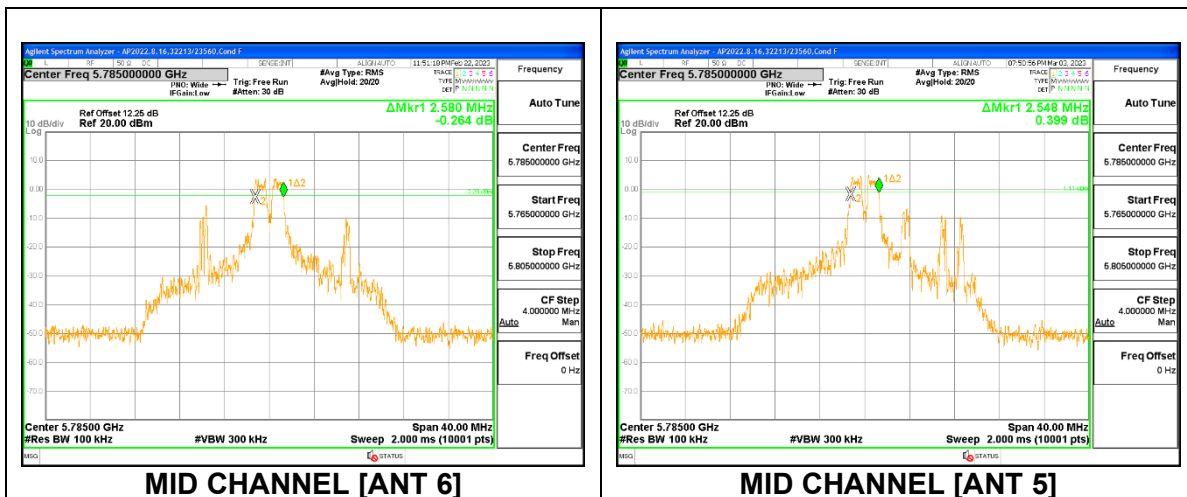
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.032	2.036	0.5
Mid	5785	1.928	2.084	0.5
High	5825	1.984	2.036	0.5



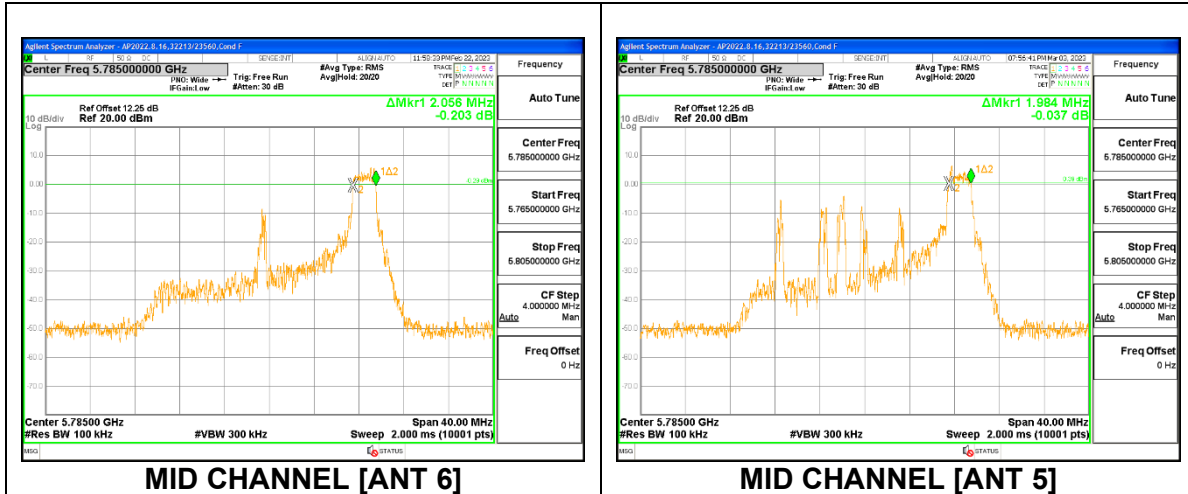
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 4

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.568	2.640	0.5
Mid	5785	2.580	2.548	0.5
High	5825	2.624	2.556	0.5



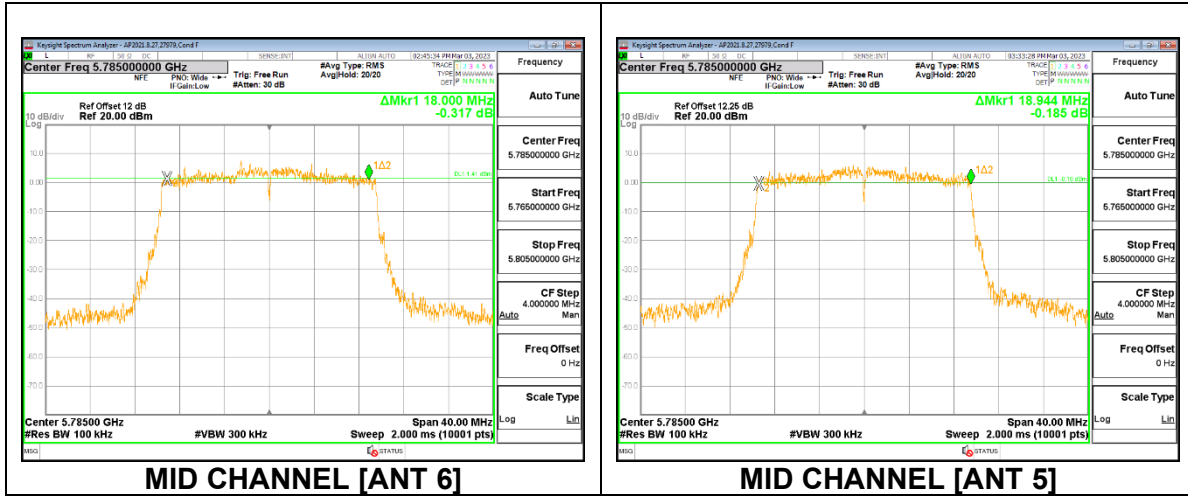
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	1.960	2.008	0.5
Mid	5785	2.056	1.984	0.5
High	5825	2.000	2.064	0.5
144	5720	1.984	2.000	0.5



2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

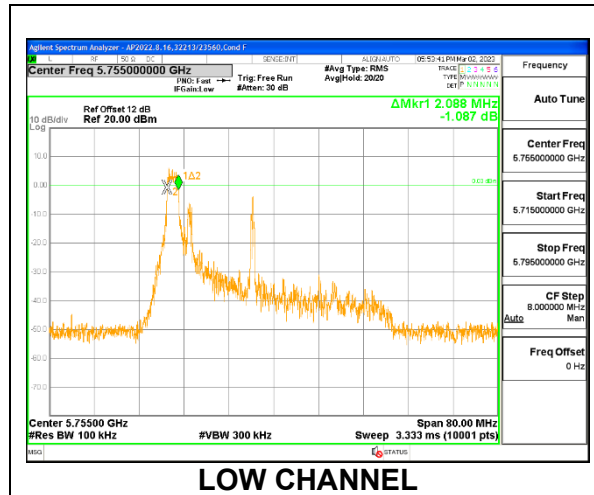
Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	17.028	18.900	0.5
Mid	5785	18.000	18.944	0.5
High	5825	18.764	18.856	0.5
144	5720	4.600	4.480	0.5



9.3.5. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

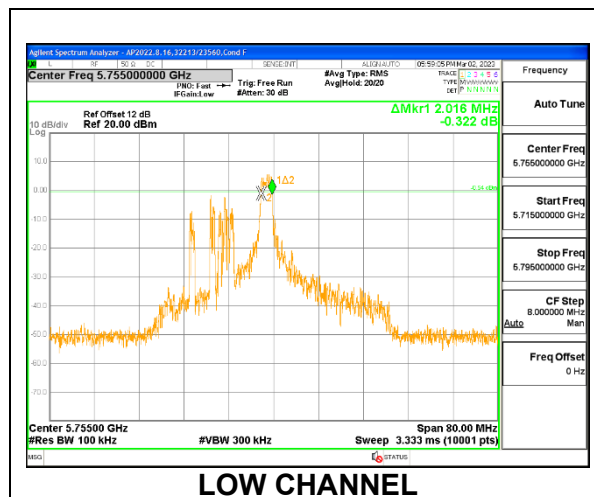
1TX Antenna 6 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.088	0.5
High	5795	1.992	0.5



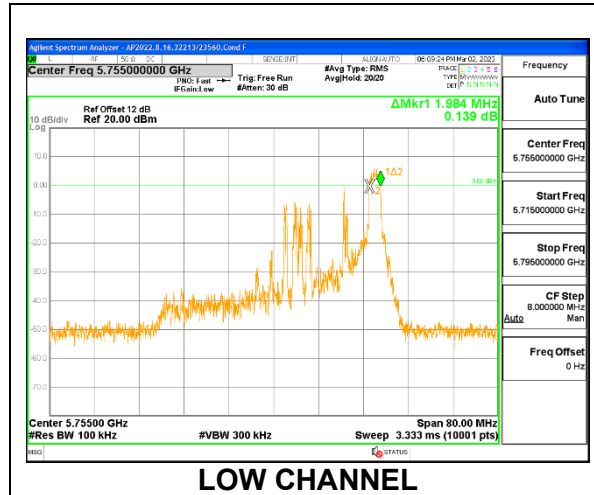
1TX Antenna 6 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.016	0.5
High	5795	2.032	0.5



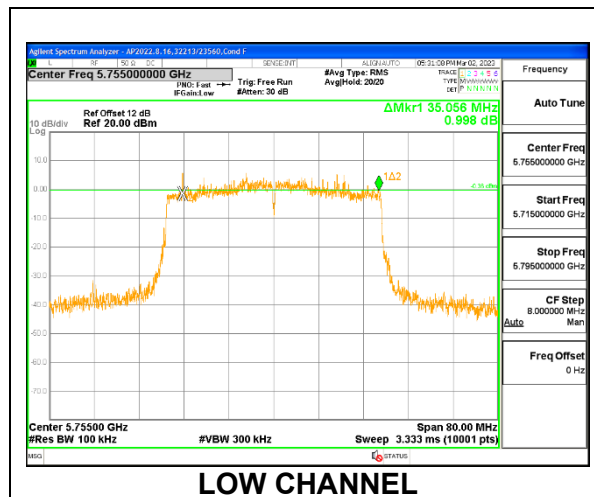
1TX Antenna 6 MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	1.984	0.5
High	5795	2.008	0.5
142	5710	2.016	0.5



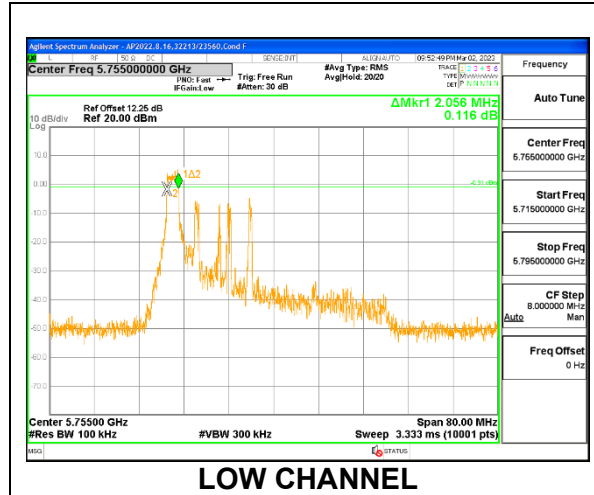
1TX Antenna 6 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	35.056	0.5
High	5795	36.392	0.5
142	5710	4.048	0.5



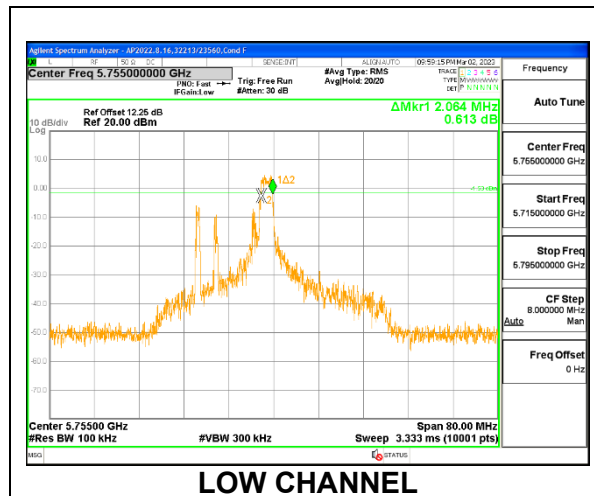
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.056	0.5
High	5795	2.048	0.5



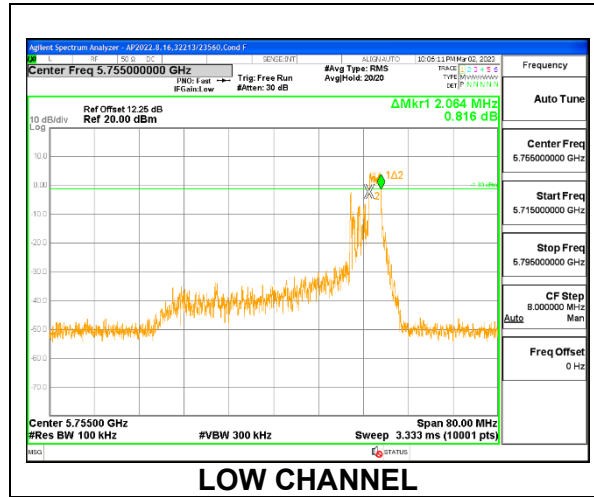
1TX Antenna 5 MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.064	0.5
High	5795	2.008	0.5



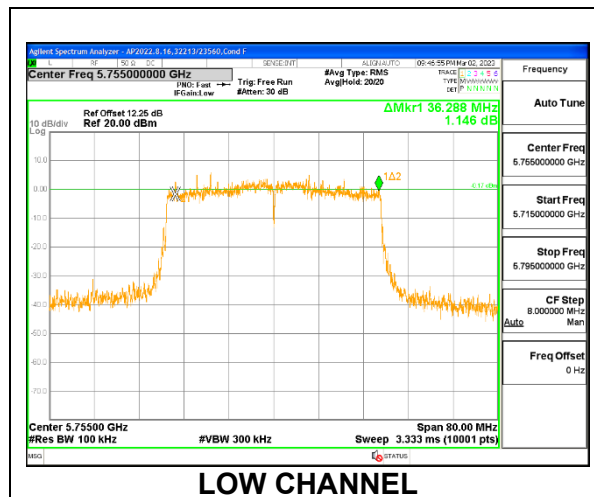
1TX Antenna 5 MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.064	0.5
High	5795	1.968	0.5
142	5710	2.056	0.5



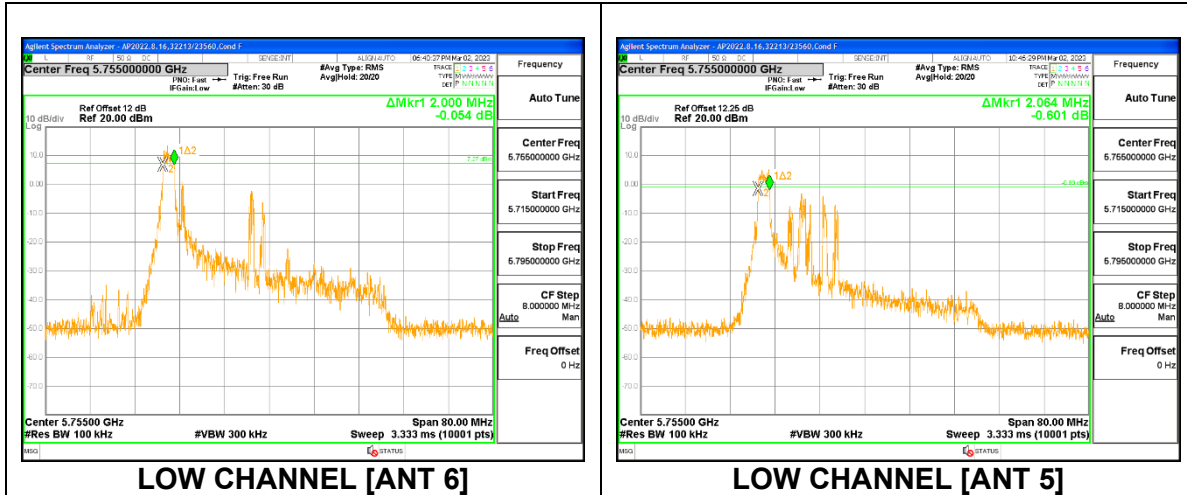
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	36.288	0.5
High	5795	37.496	0.5
142	5710	4.368	0.5



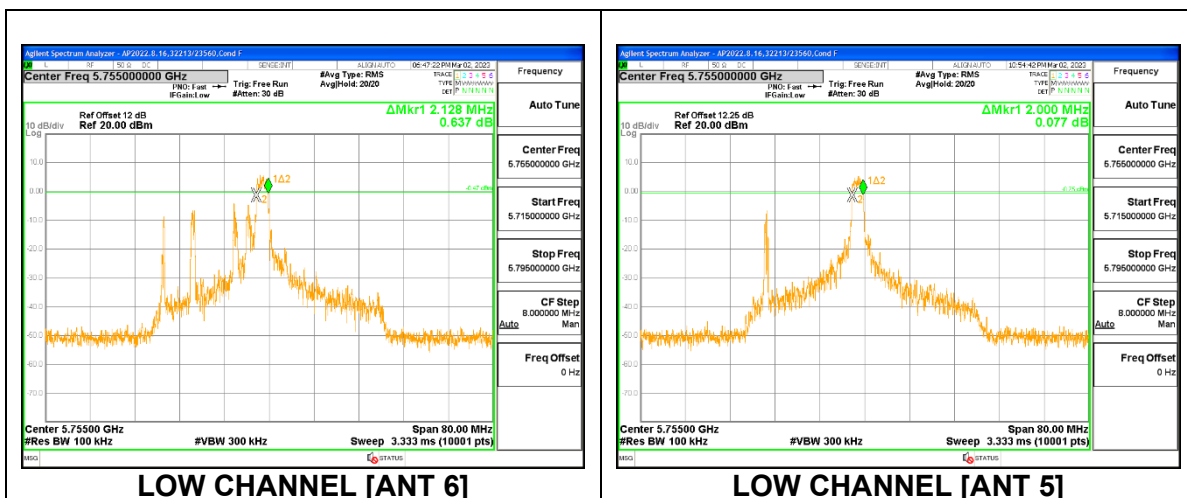
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.000	2.064	0.5
High	5795	2.008	2.024	0.5



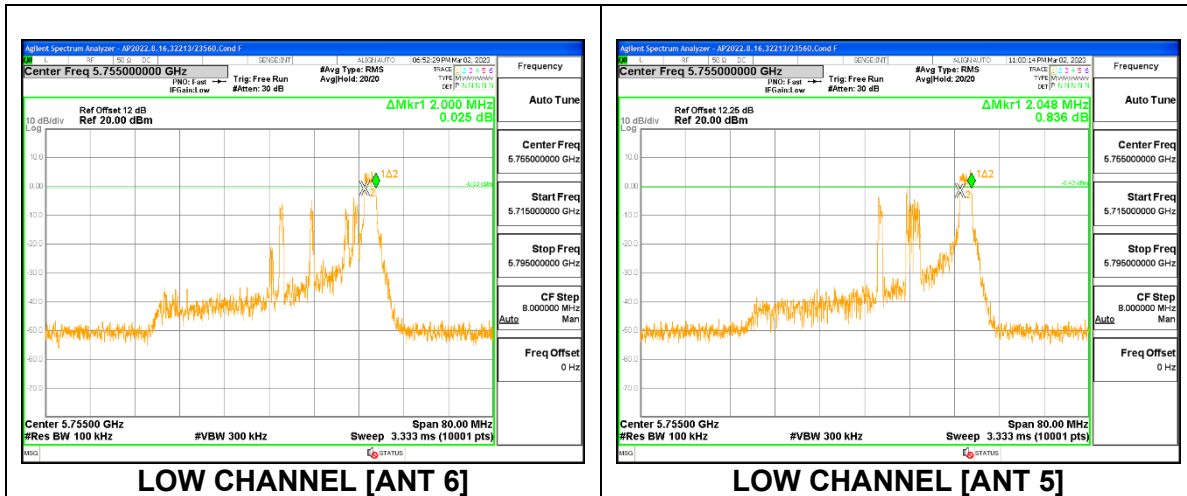
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.128	2.000	0.5
High	5795	2.056	2.056	0.5



2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 17

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.000	2.048	0.5
High	5795	2.032	2.040	0.5
142	5710	2.064	2.016	0.5

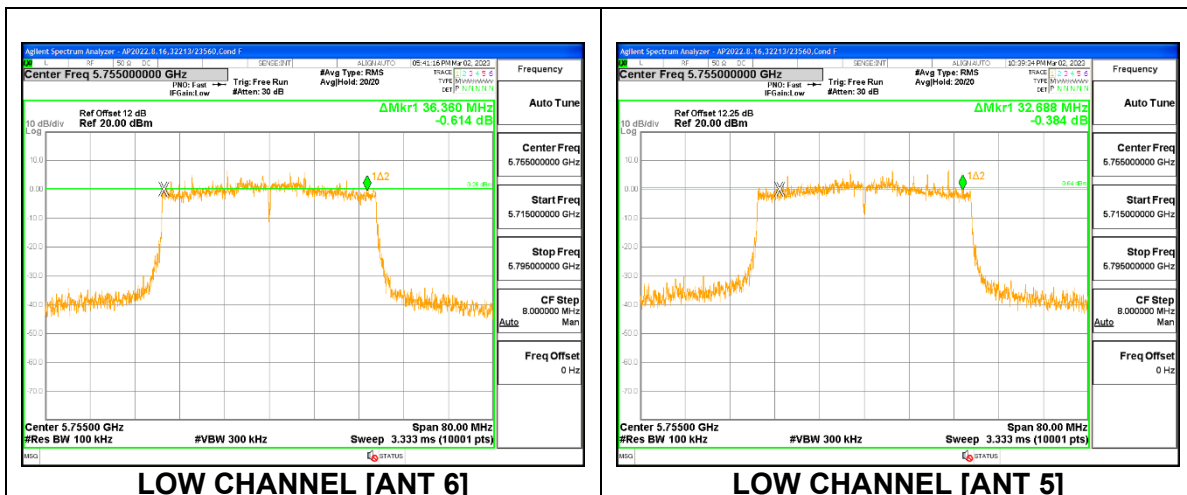


LOW CHANNEL [ANT 6]

LOW CHANNEL [ANT 5]

2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	36.360	32.688	0.5
High	5795	36.088	36.624	0.5
142	5710	3.840	3.912	0.5



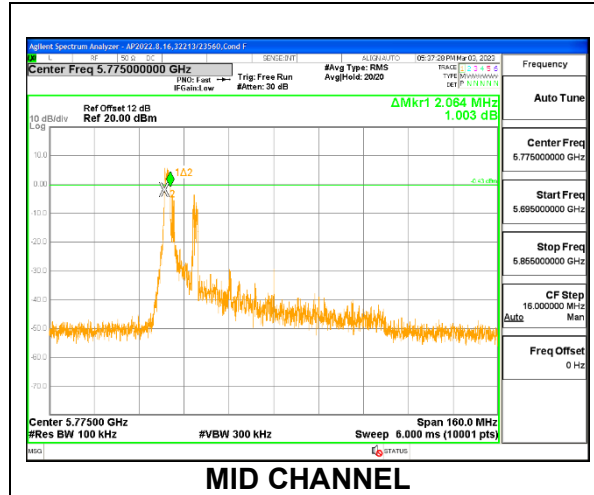
LOW CHANNEL [ANT 6]

LOW CHANNEL [ANT 5]

9.3.6. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

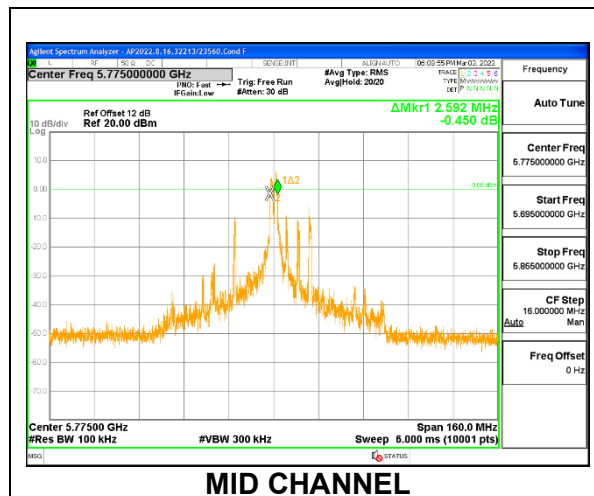
1TX Antenna 6 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.064	0.5



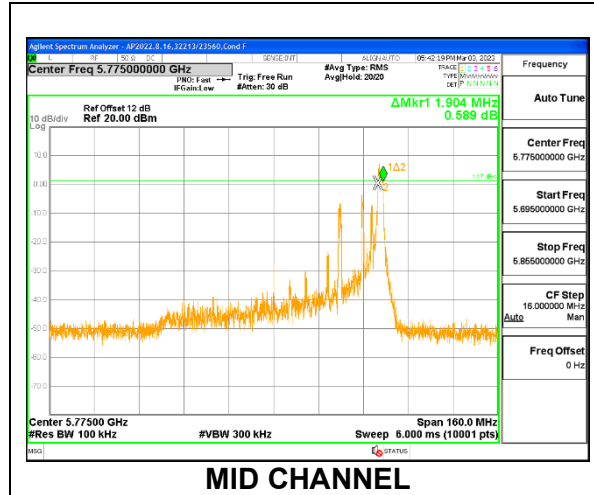
1TX Antenna 6 MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.592	0.5



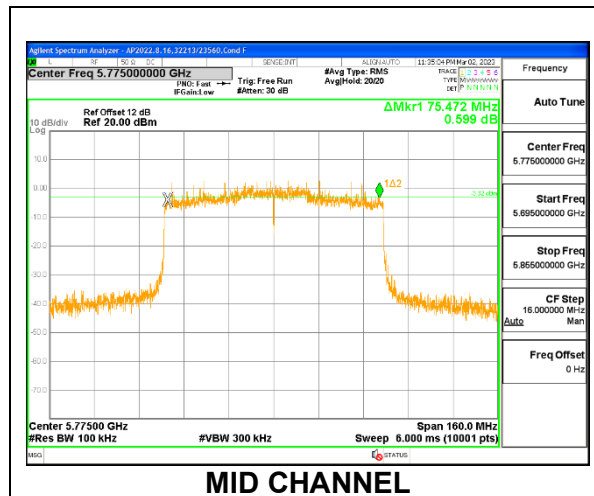
1TX Antenna 6 MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	1.904	0.5
138	5690	1.952	0.5



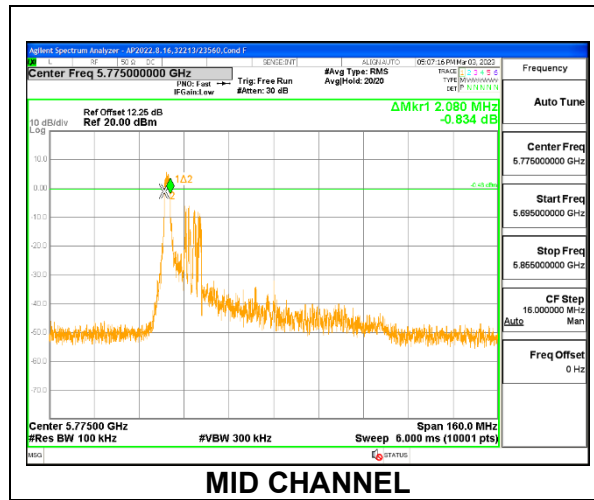
1TX Antenna 6 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.472	0.5
138	5690	3.992	0.5



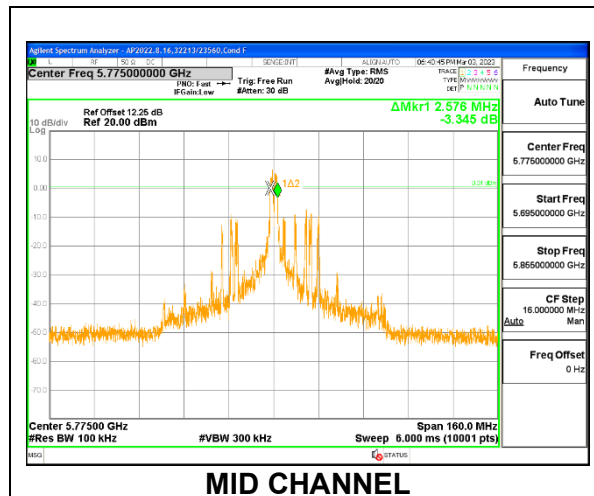
1TX Antenna 5 MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.080	0.5



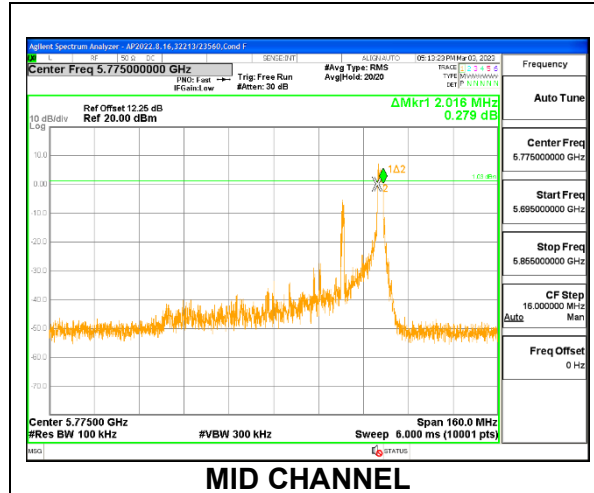
1TX Antenna 5 MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.576	0.5



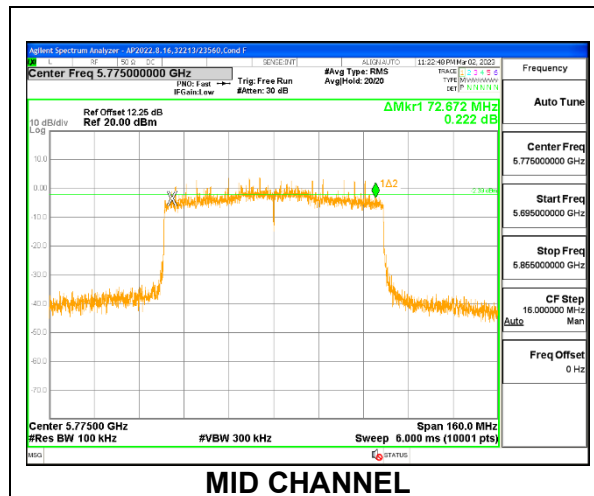
1TX Antenna 5 MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.016	0.5
138	5690	2.048	0.5



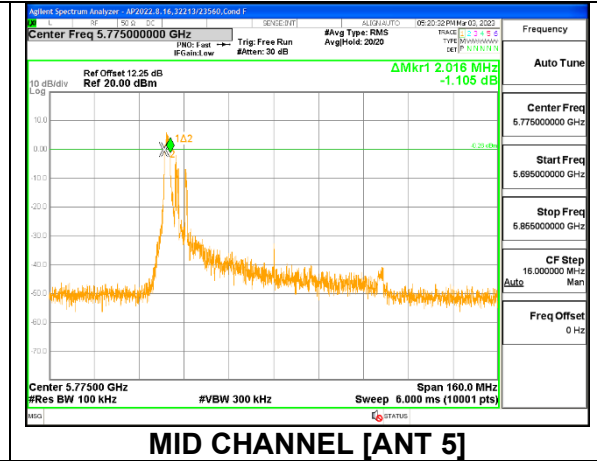
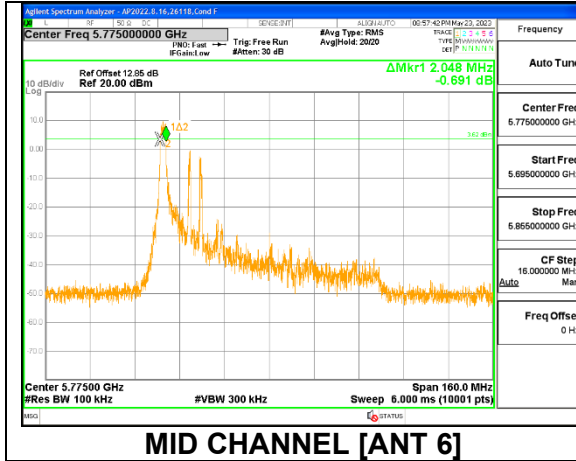
1TX Antenna 5 MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	72.672	0.5
138	5690	3.800	0.5



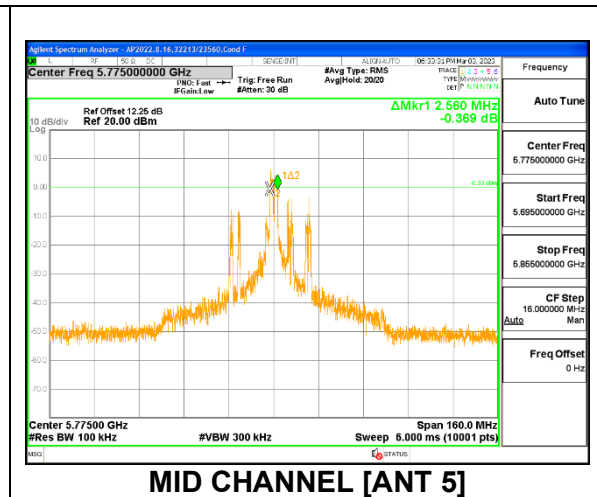
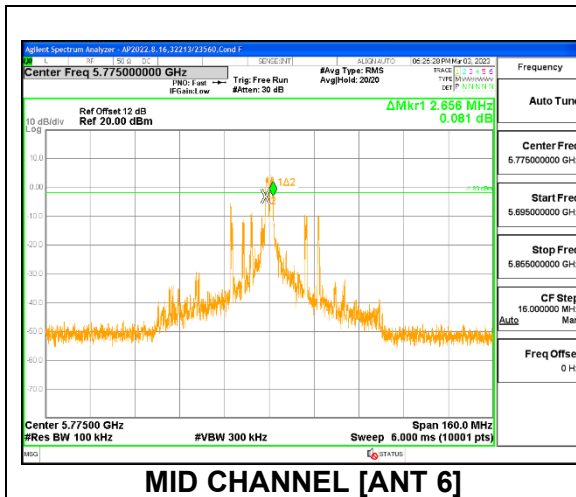
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.048	2.016	0.5



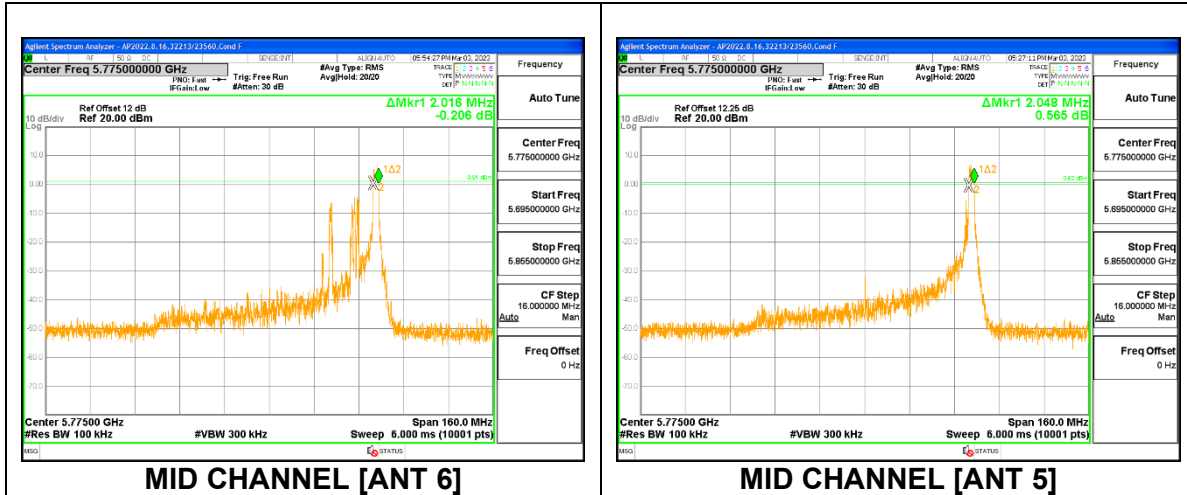
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 18

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.656	2.560	0.5



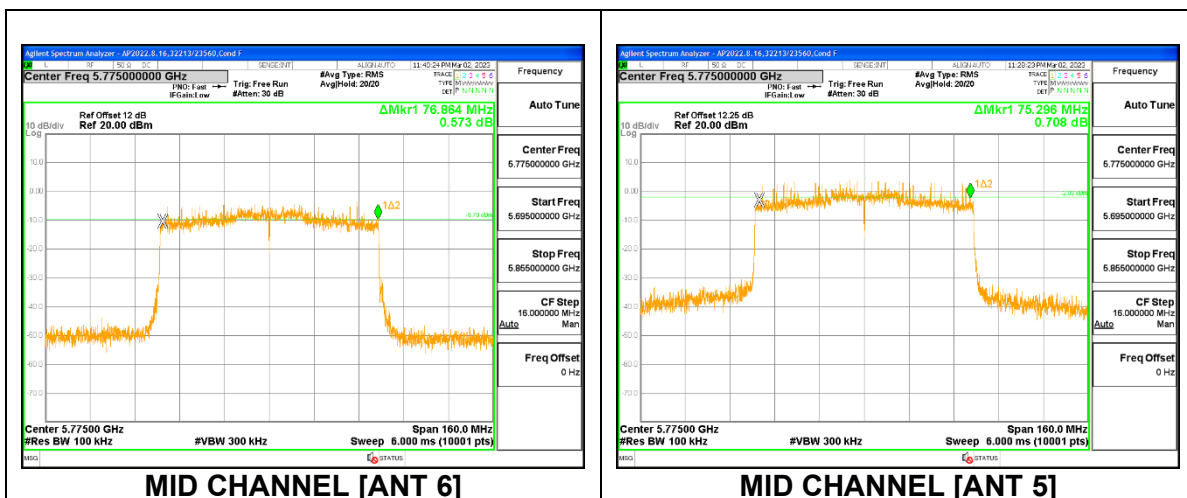
2TX Antenna 6 + Antenna 5 OFDMA MODE: 26-Tone, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.016	2.047	0.5
138	5690	1.984	2.064	0.5



2TX Antenna 6 + Antenna 5 OFDMA MODE: SU, Single User

Channel	Frequency (MHz)	6 dB Bandwidth Antenna 6 (MHz)	6 dB Bandwidth Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	76.864	75.296	0.5
138	5690	3.944	3.432	0.5



9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

For all straddle channels, full bandwidth power and PSD/MHz are reported in the 5.6GHz section because the combined 5.6GHz and 5.8GHz power and PSD/MHz already passed the worst-case 5.6GHz power and 5.8 GHz PSD/500kHz limits.

11n HT20 and 11ax HE20 straddle channel $26\text{dB bandwidth} = (26\text{dB BW}/2)+5$

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	Antenna 6 Gain (dBi)	Antenna 5 Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	-3.40	-6.00	-4.51	-1.59
5.3	-3.20	-6.00	-4.38	-1.48
5.6	-4.50	-3.70	-4.08	-1.08
5.8	-5.20	-3.60	-4.33	-1.35

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain= $10 \cdot \text{LOG}((10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})/2)$

Correlated directional Gain= $10 \cdot \text{LOG}(((10^{(\text{Ant6}/20)} + 10^{(\text{Ant5}/20)})^2)/2)$

Sample Calculation at 5.2GHz Band:

Ant6=-3.40, Ant5=-6.00

Uncorrelated Antenna gain= $10 \log[(10^{(-3.40/10)} + 10^{(-6.00/10)})/2] = -4.51 \text{dBi}$

Correlated Antenna gain= $10 \log[(10^{(-3.40/20)} + 10^{(-6.00/20)})^2/2] = -1.59 \text{dBi}$

9.4.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/27/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	-3.40	24.00	11.00
Mid	5200	-3.40	24.00	11.00
High	5240	-3.40	24.00	11.00

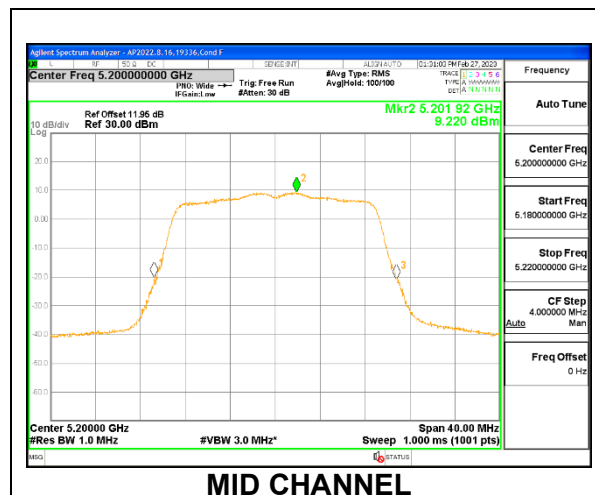
Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD
--------------------	------	----------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.73	18.73	24.00	-5.27
Mid	5200	19.22	19.22	24.00	-4.78
High	5240	19.23	19.23	24.00	-4.77

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	8.932	9.112	11.000	-1.888
Mid	5200	9.220	9.400	11.000	-1.600
High	5240	9.241	9.421	11.000	-1.579



1TX Antenna 5 MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/27/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	-6.00	24.00	11.00
Mid	5200	-6.00	24.00	11.00
High	5240	-6.00	24.00	11.00

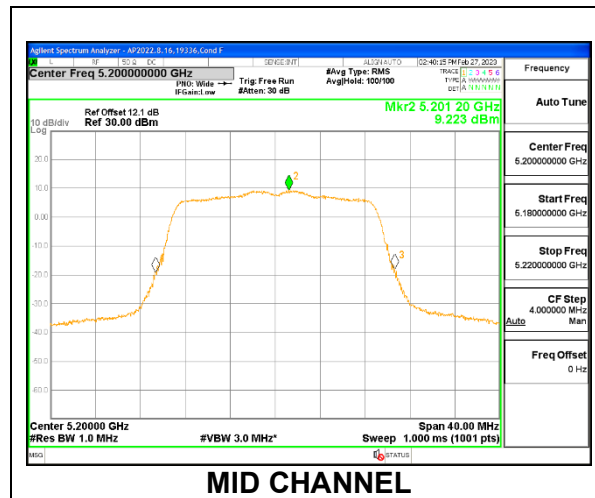
Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD
---------------------------	------	-----------------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.74	18.74	24.00	-5.26
Mid	5200	19.20	19.20	24.00	-4.80
High	5240	19.23	19.23	24.00	-4.77

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	8.838	9.018	11.000	-1.982
Mid	5200	9.223	9.403	11.000	-1.597
High	5240	9.382	9.562	11.000	-1.438



2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/27/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	-4.51	-1.59	24.00	11.00
Mid	5200	-4.51	-1.59	24.00	11.00
High	5240	-4.51	-1.59	24.00	11.00

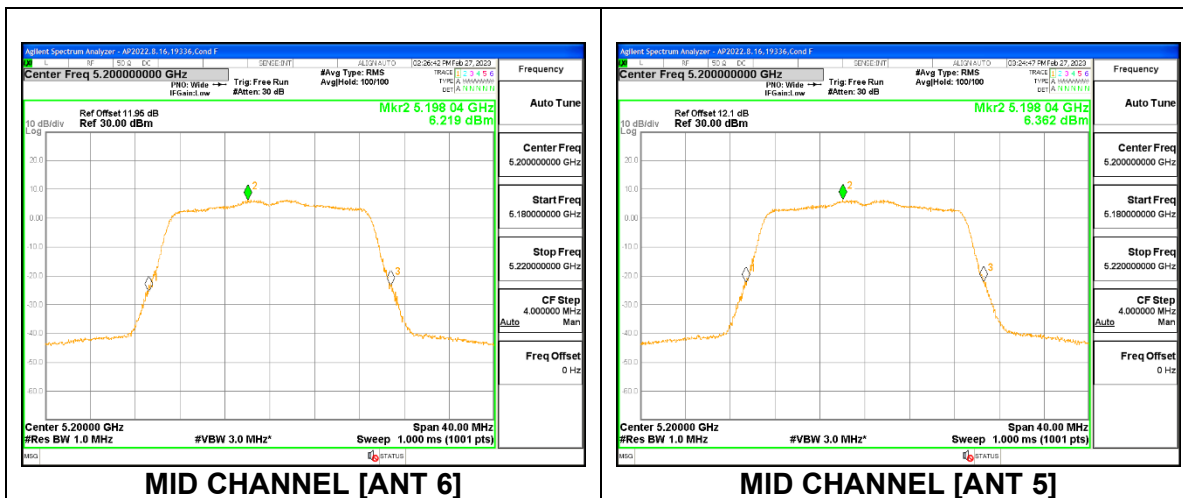
Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD
---------------------------	------	-----------------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	16.18	16.25	19.23	24.00	-4.77
Mid	5200	16.20	16.23	19.23	24.00	-4.77
High	5240	16.24	16.24	19.25	24.00	-4.75

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	6.174	6.446	9.502	11.000	-1.498
Mid	5200	6.219	6.362	9.481	11.000	-1.519
High	5240	6.515	6.462	9.679	11.000	-1.321



9.4.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/27/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5190	-3.40	24.00	11.00
High	5230	-3.40	24.00	11.00

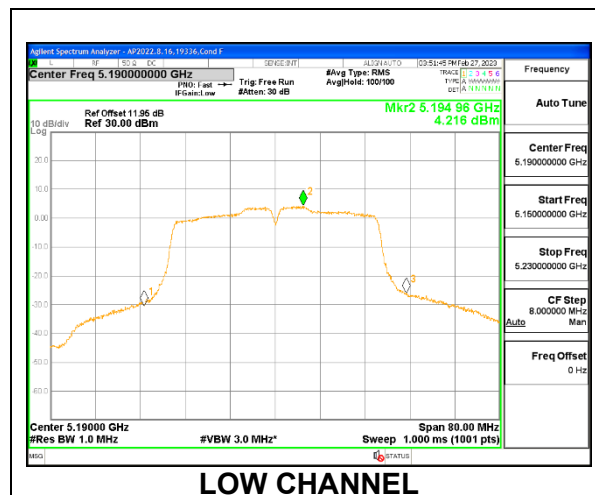
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
--------------------	------	----------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.20	17.20	24.00	-6.80
High	5230	20.22	20.22	24.00	-3.78

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5190	4.216	4.406	11.000	-6.594
High	5230	7.307	7.497	11.000	-3.503



1TX Antenna 5 MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/27/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5190	-6.00	24.00	11.00
High	5230	-6.00	24.00	11.00

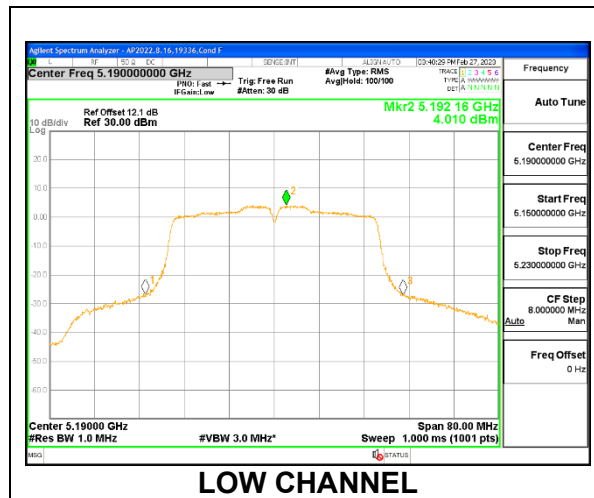
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
--------------------	------	----------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.17	17.17	24.00	-6.83
High	5230	20.24	20.24	24.00	-3.76

PSD Results

Channel	Frequency (MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5190	4.010	4.200	11.000	-6.800
High	5230	7.385	7.575	11.000	-3.425



2TX Antenna 6 + Antenna 5 CDD MODE (FCC) MOBILE

Test Engineer:	19336
Test Date:	02/28/2023

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-4.51	-1.59	24.00	11.00
High	5230	-4.51	-1.59	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
---------------------------	------	-----------------------------------------------

Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	15.74	15.72	18.74	24.00	-5.26
High	5230	18.75	18.73	21.75	24.00	-2.25

PSD Results

Channel	Frequency (MHz)	Antenna 6 Meas PSD (dBm/1MHz)	Antenna 5 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	2.895	2.641	5.970	11.000	-5.030
High	5230	5.981	5.956	9.169	11.000	-1.831

