

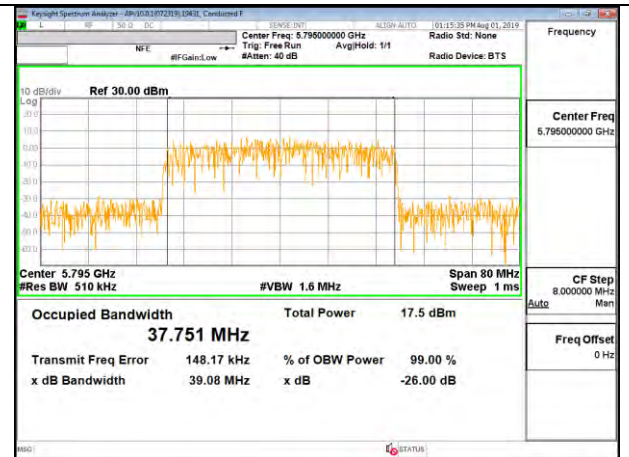
8.3.23. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE – 484 Tones, RU Index 65

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	37.553
High	5795	37.751



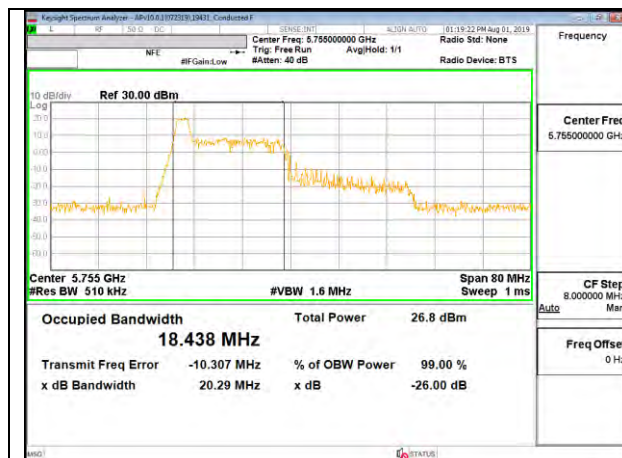
LOW CHANNEL



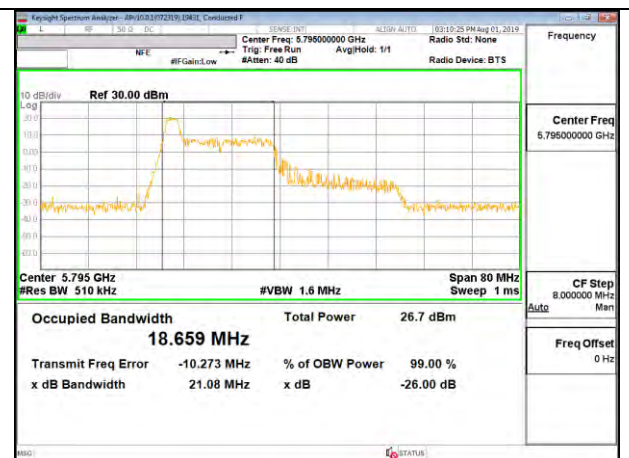
HIGH CHANNEL

1TX Antenna 6 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	18.438
High	5795	18.659



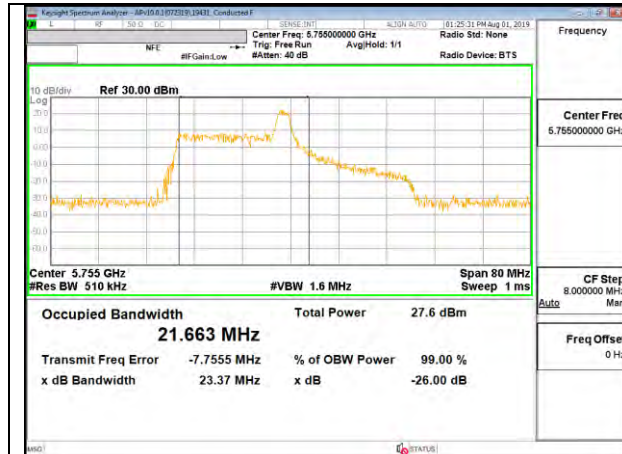
LOW CHANNEL



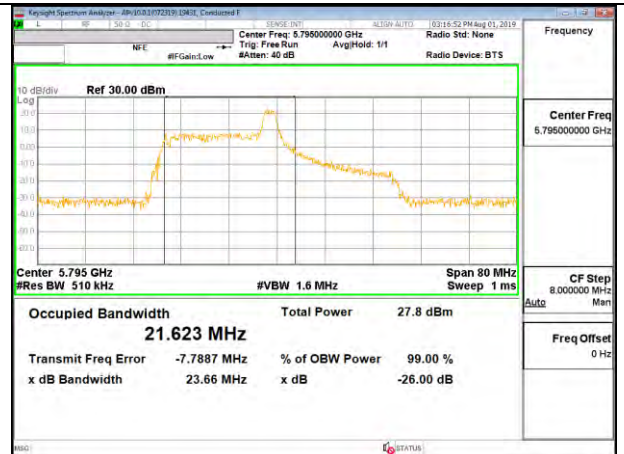
HIGH CHANNEL

1TX Antenna 6 MODE – 26 Tones, RU Index 8

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	21.663
High	5795	21.623



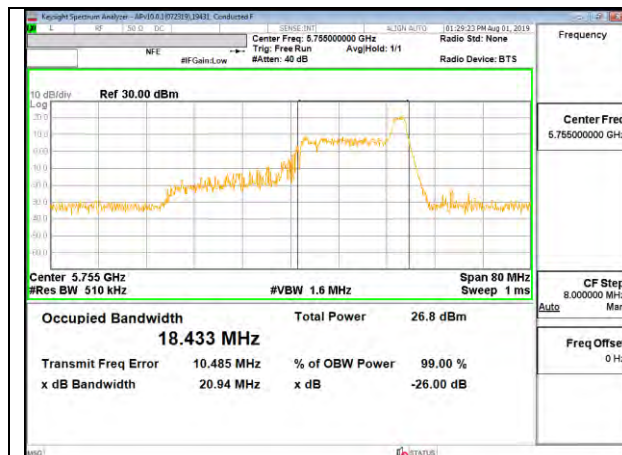
LOW CHANNEL



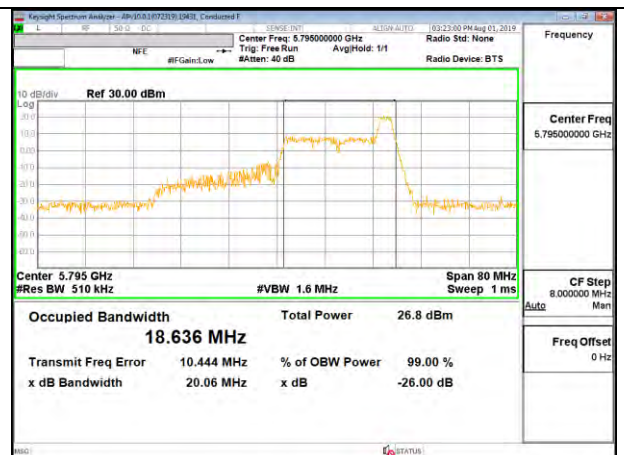
HIGH CHANNEL

1TX Antenna 6 MODE – 26 Tones, RU Index 17

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	18.433
High	5795	18.636



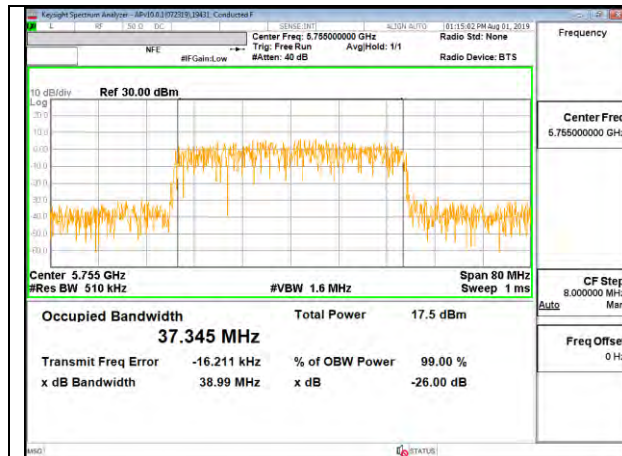
LOW CHANNEL



HIGH CHANNEL

1TX Antenna 5 MODE – 484 Tones, RU Index 65

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	37.345
High	5795	37.778



LOW CHANNEL



HIGH CHANNEL

1TX Antenna 5 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5755	16.623
High	5795	18.453



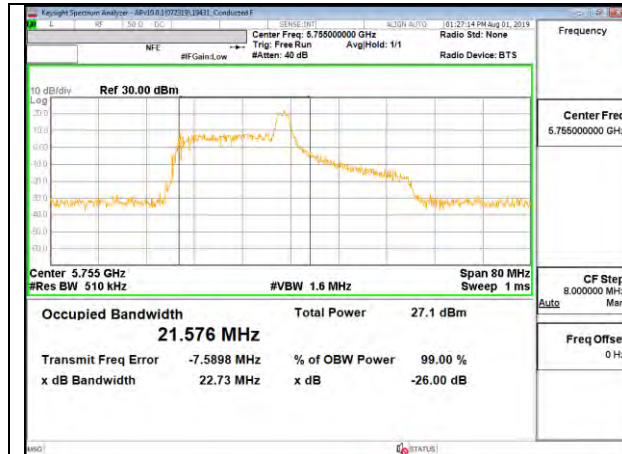
LOW CHANNEL



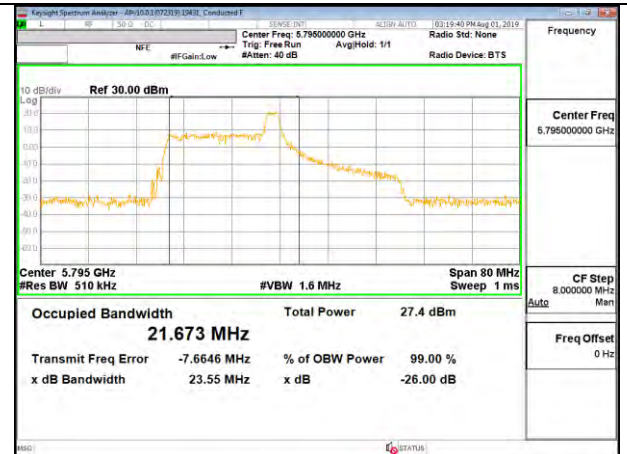
HIGH CHANNEL

1TX Antenna 5 MODE – 26 Tones, RU Index 8

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	21.576
High	5795	21.673



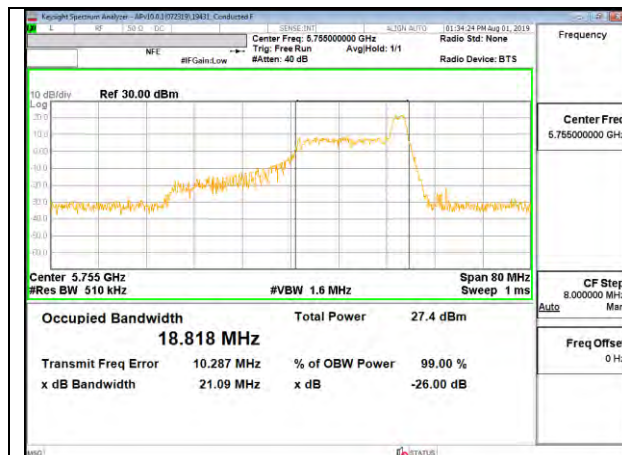
LOW CHANNEL



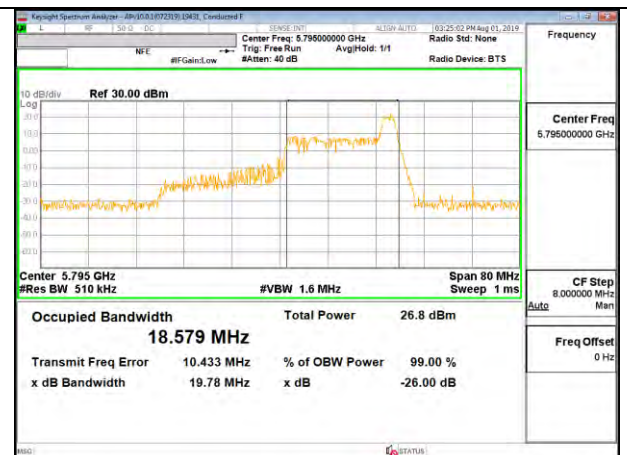
HIGH CHANNEL

1TX Antenna 5 MODE – 26 Tones, RU Index 17

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	18.818
High	5795	18.579



LOW CHANNEL



HIGH CHANNEL

2TX Antenna 6 + Antenna 5 CDD MODE – 242 Tones, RU Index 65

Channel	Frequency (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5755	37.608	35.872
High	5795	37.798	37.812



LOW CHANNEL ANT 6



LOW CHANNEL ANT 5



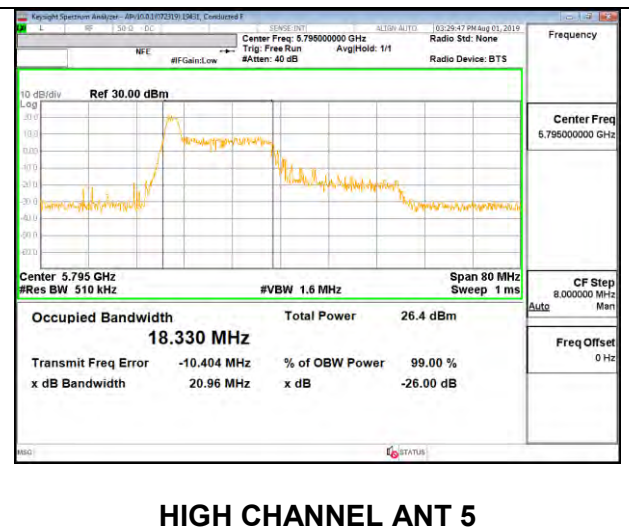
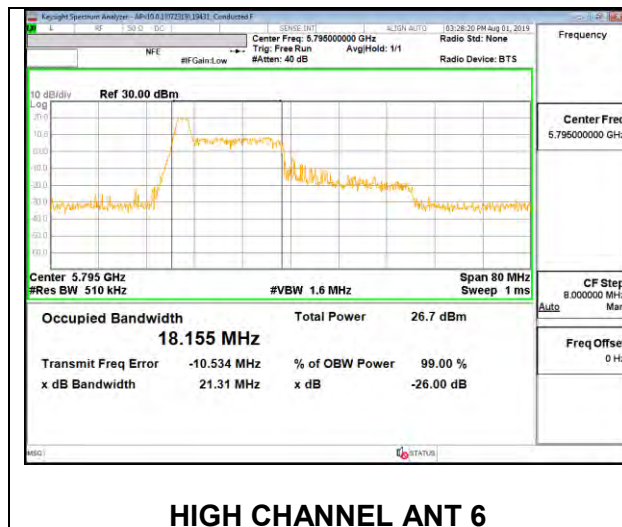
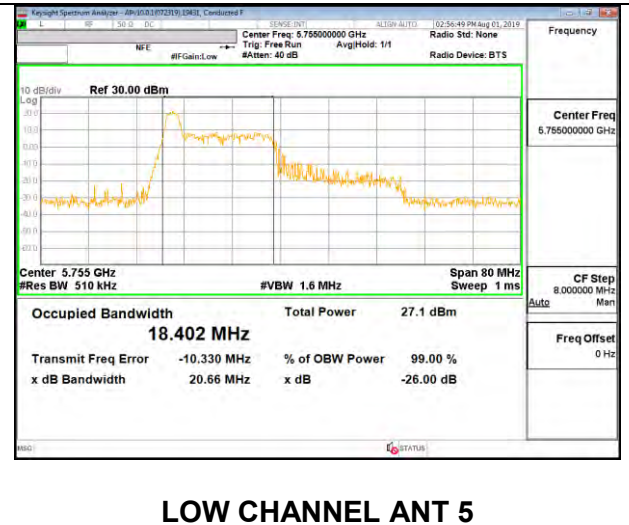
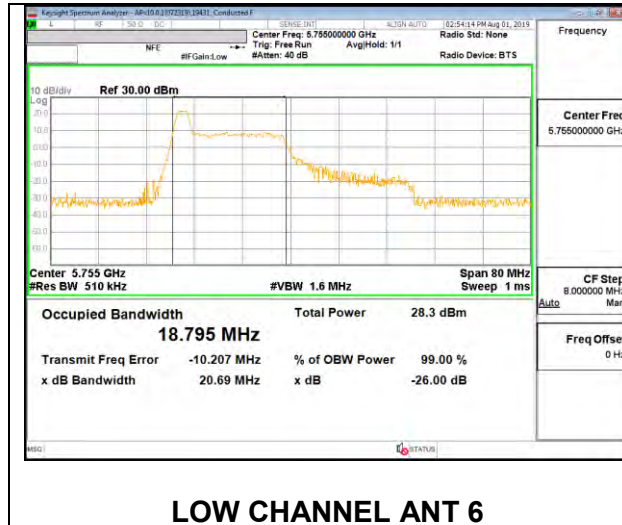
HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

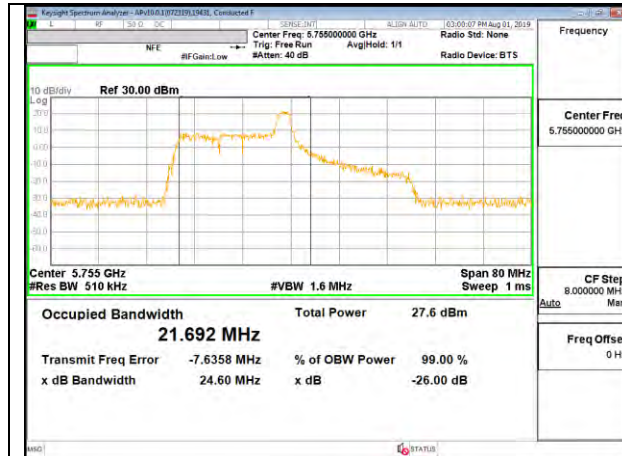
2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 0

Channel	Frequency	99% Bandwidth	99% Bandwidth
	(MHz)	ANT 6 (MHz)	ANT 5 (MHz)
Low	5755	18.795	18.402
High	5795	18.155	18.330

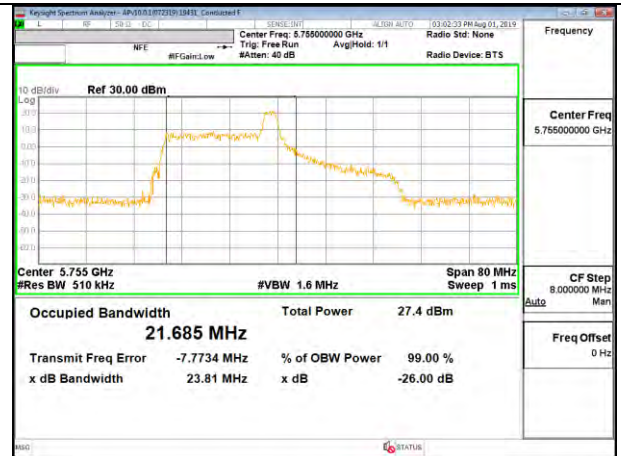


2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 8

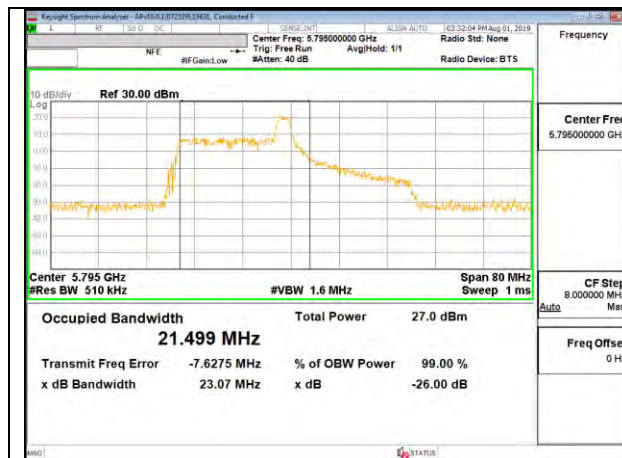
Channel	Frequency (MHz)	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Low	5755	21.692	21.685
High	5795	21.499	21.673



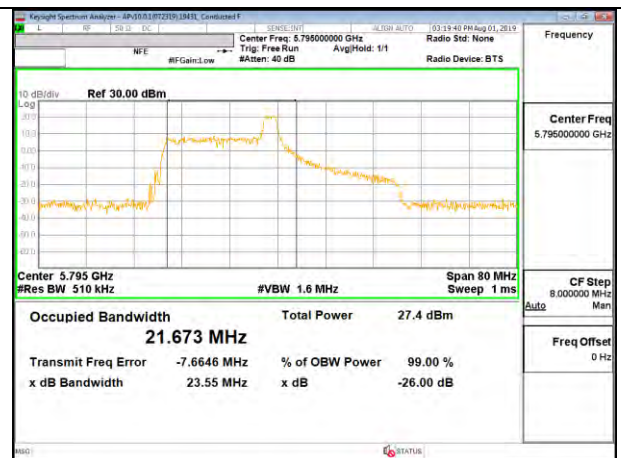
LOW CHANNEL ANT 6



LOW CHANNEL ANT 5



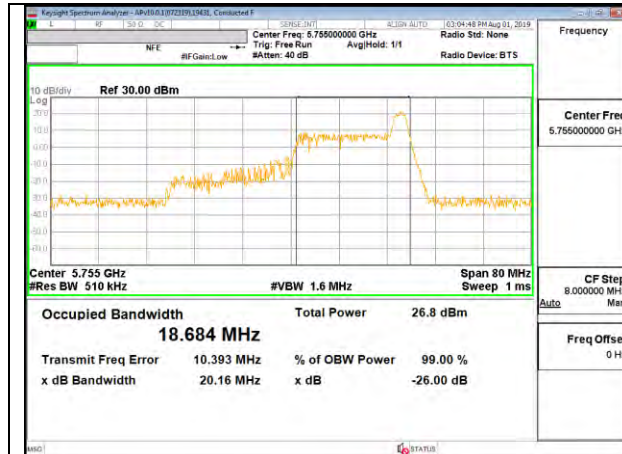
HIGH CHANNEL ANT 6



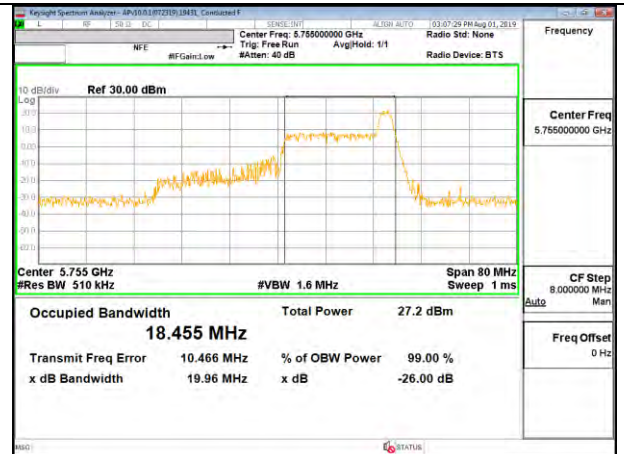
HIGH CHANNEL ANT 5

2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 17

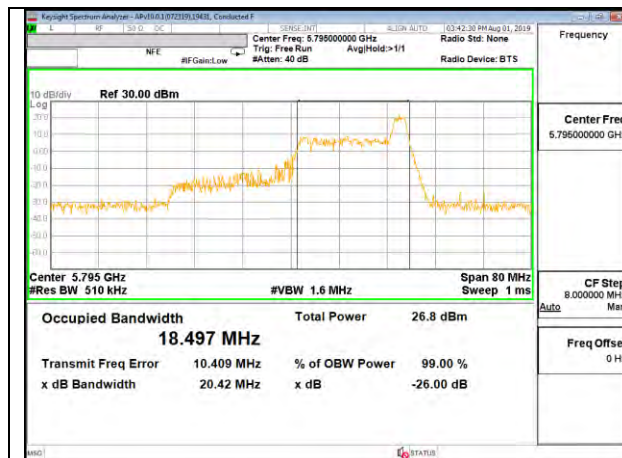
Channel	Frequency	99% Bandwidth	99% Bandwidth
	(MHz)	ANT 6 (MHz)	ANT 5 (MHz)
Low	5755	18.684	18.455
High	5795	18.497	18.624



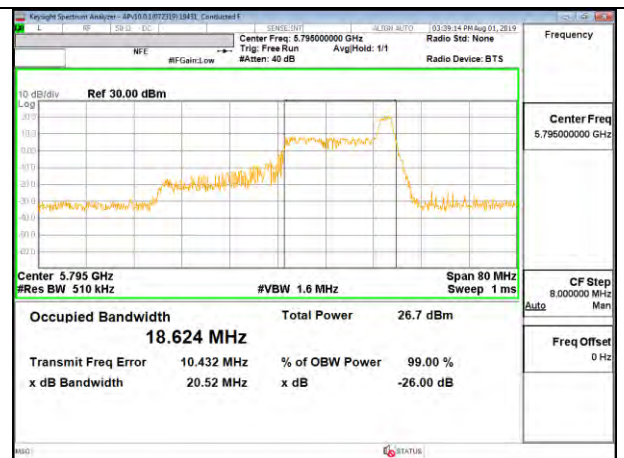
LOW CHANNEL ANT 6



LOW CHANNEL ANT 5



HIGH CHANNEL ANT 6

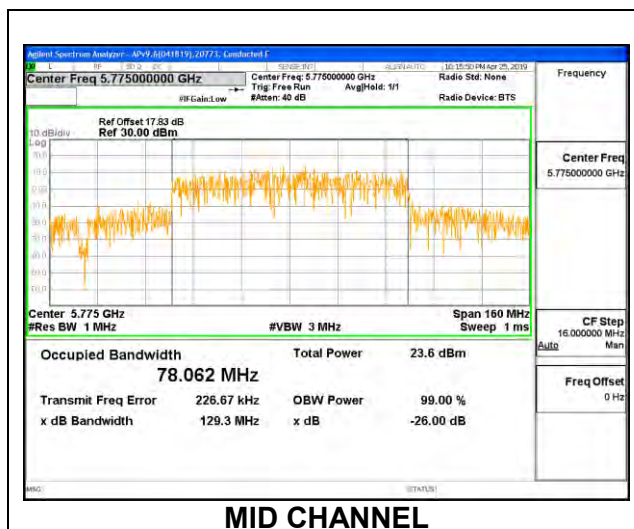


HIGH CHANNEL ANT 5

8.3.24. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

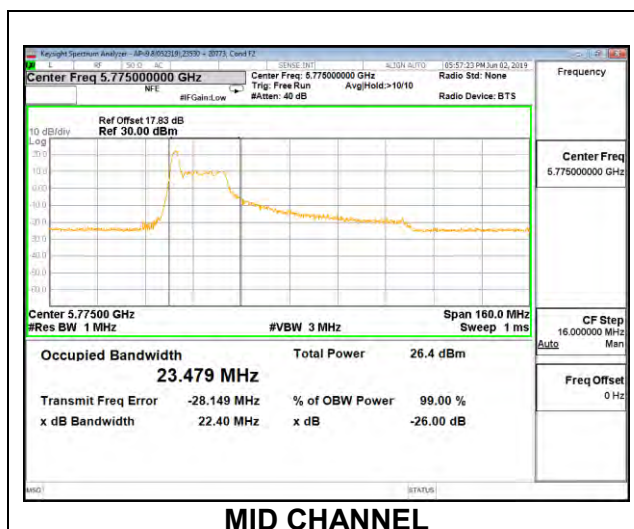
1TX Antenna 6 MODE – 996 Tones, RU Index 67

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	78.062



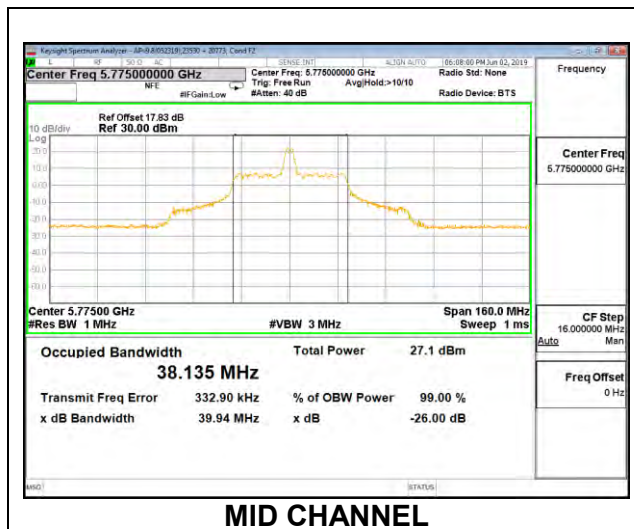
1TX Antenna 6 MODE – 26 Tones, RU Index 0

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	23.479



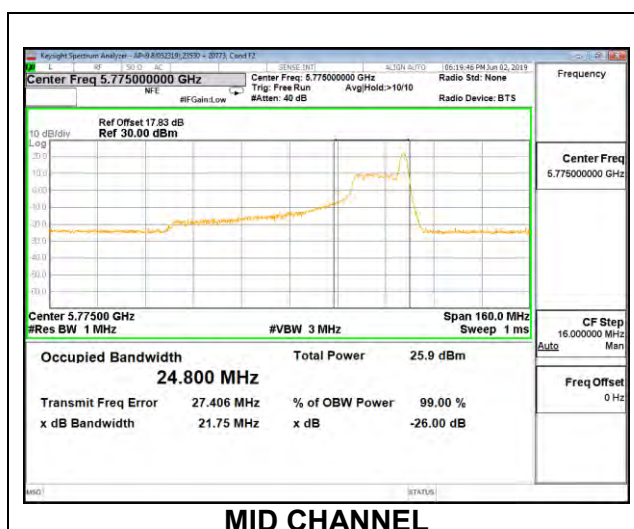
1TX Antenna 6 MODE – 26 Tones, RU Index 18

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	38.135



1TX Antenna 6 MODE – 26 Tones, RU Index 36

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	24.800



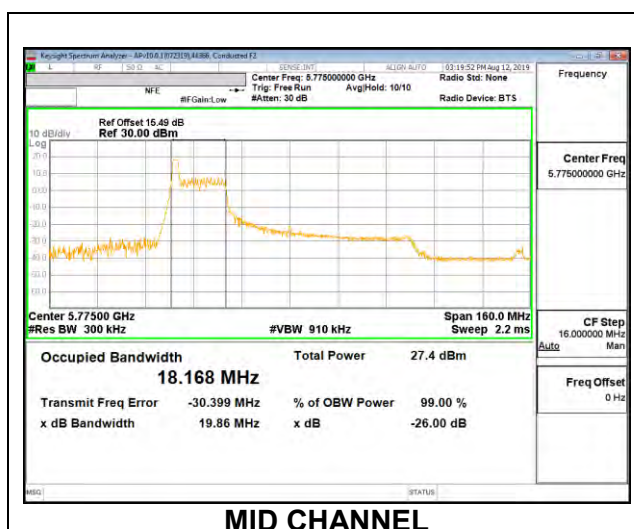
1TX Antenna 5 MODE – 996 Tones, RU Index 67

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	77.605



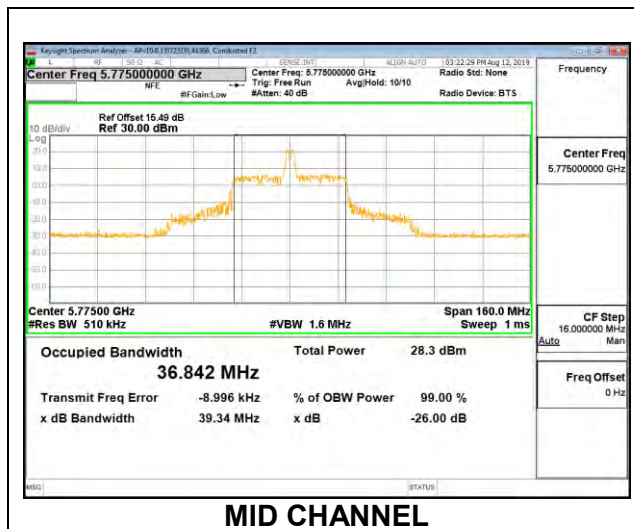
1TX Antenna 5 MODE – 26 Tones, RU Index 0

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.168



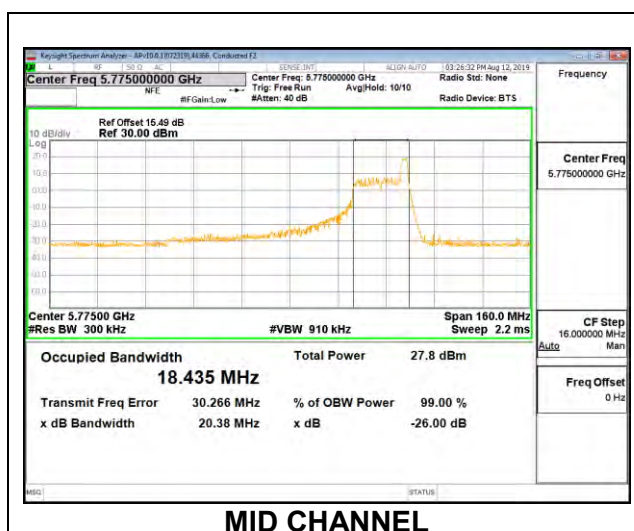
1TX Antenna 5 MODE – 26 Tones, RU Index 18

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	36.842



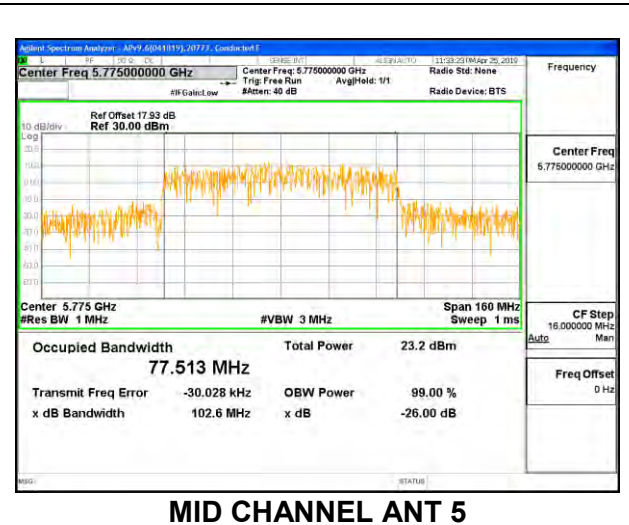
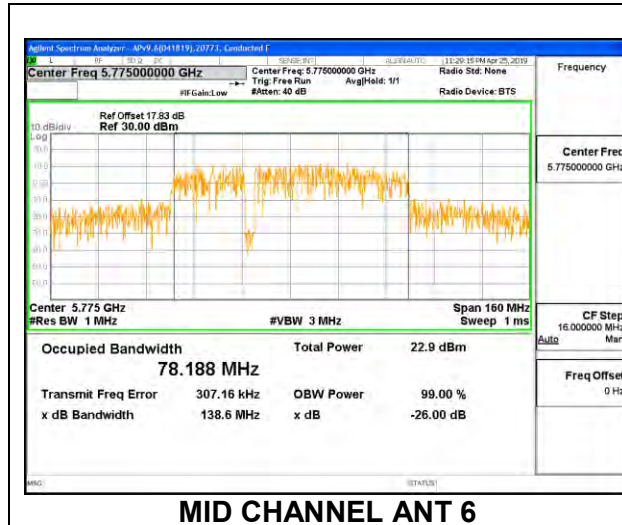
1TX Antenna 5 MODE – 26 Tones, RU Index 36

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.435



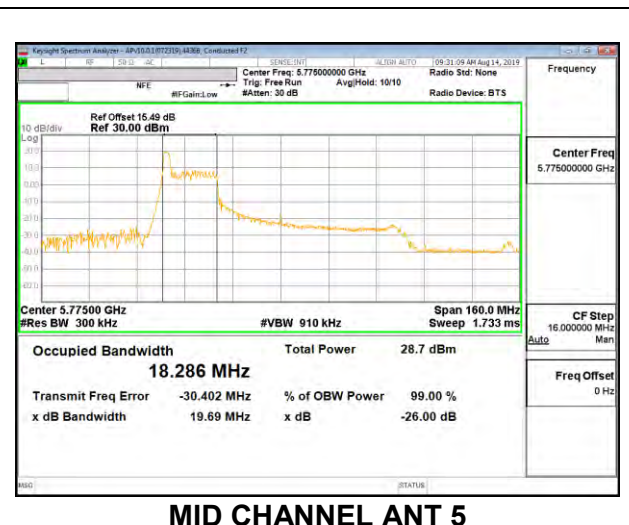
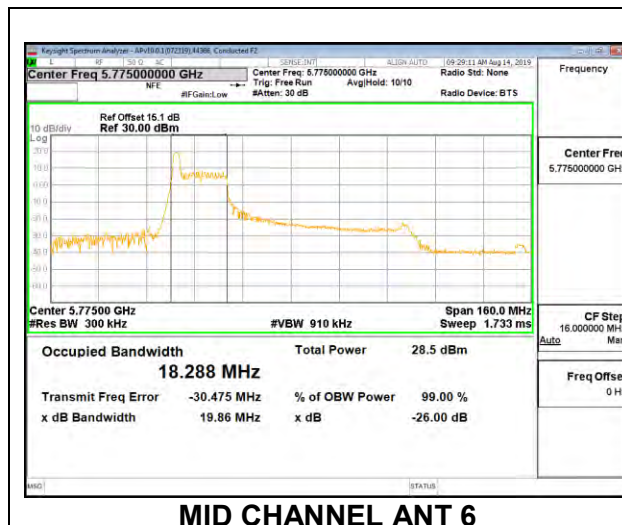
2TX Antenna 6 + Antenna 5 CDD MODE – 996 Tones, RU Index 67

Channel	Frequency	99% Bandwidth	99% Bandwidth
	(MHz)	ANT 6	ANT 5
		(MHz)	(MHz)
Mid	5775	78.188	77.513



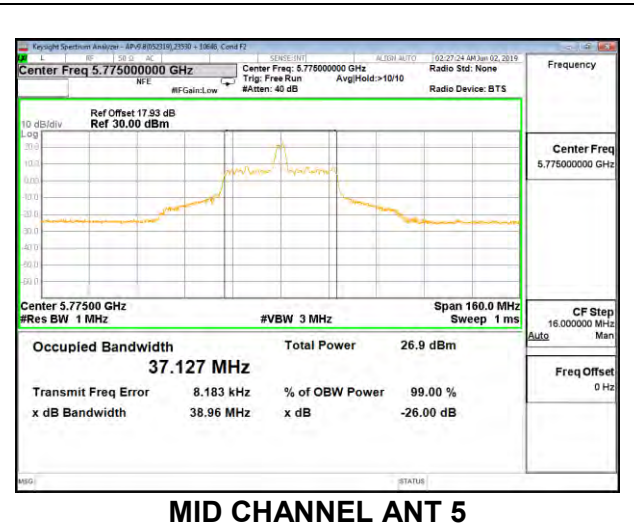
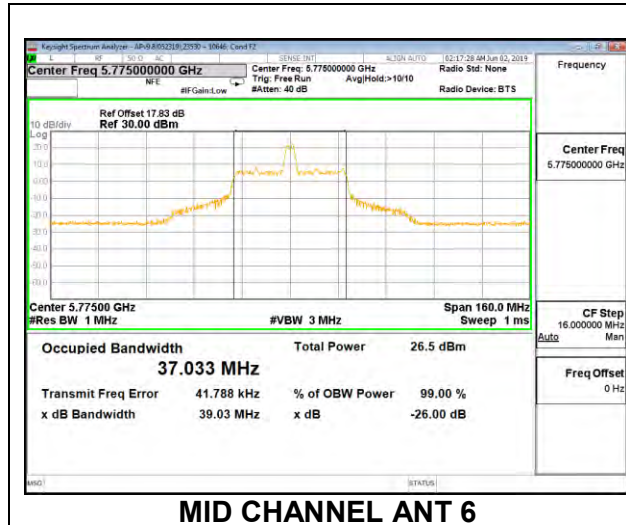
2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 0

Channel	Frequency	99% Bandwidth	99% Bandwidth
	(MHz)	ANT 6	ANT 5
		(MHz)	(MHz)
Mid	5775	18.288	18.286



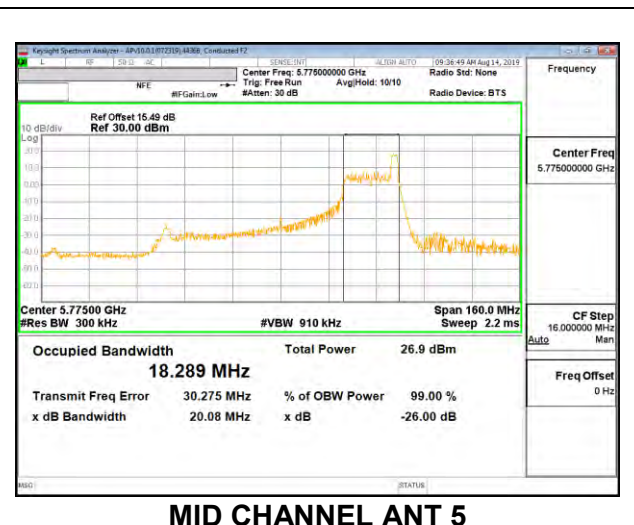
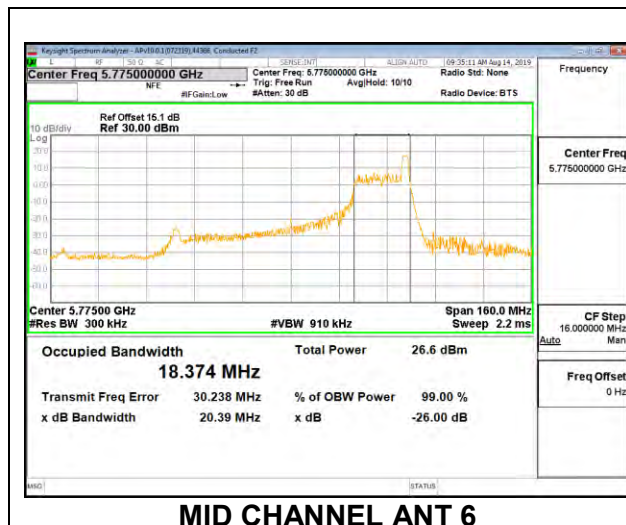
2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 18

Channel	Frequency	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Mid	5775	37.033	37.127



2TX Antenna 6 + Antenna 5 CDD MODE – 26 Tones, RU Index 36

Channel	Frequency	99% Bandwidth ANT 6 (MHz)	99% Bandwidth ANT 5 (MHz)
Mid	5775	18.374	18.289



8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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

RESULTS

Note: No 6dB emission bandwidth located after 5725MHz

11ax HE20 Mode RU index 0, 4
11ax HE40 Mode RU index 0, 8
11ax HE80 Mode RU index 0, 18

8.4.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

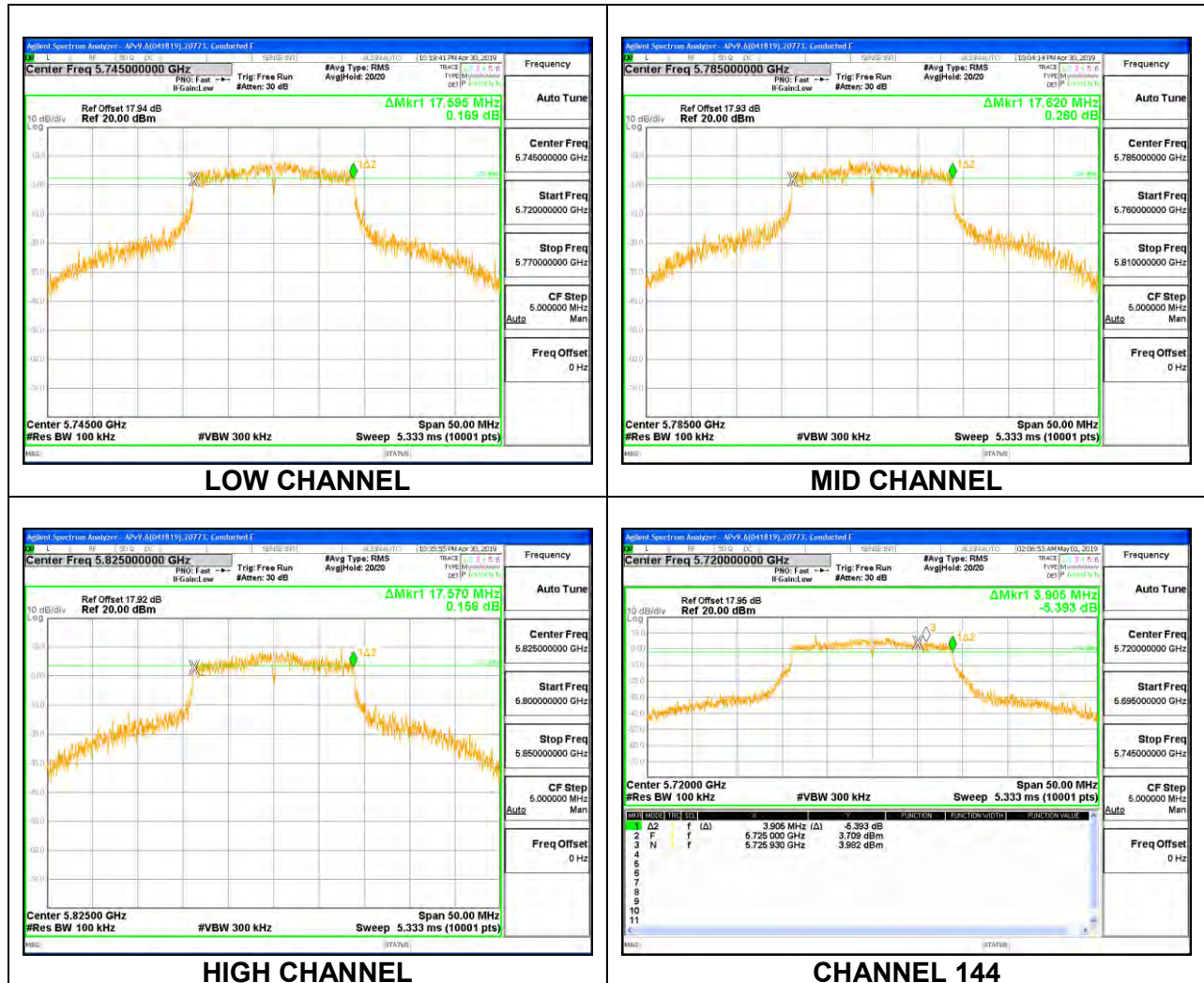
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.635	0.5
Mid	5785	16.050	0.5
High	5825	17.320	0.5
144	5720	3.905	0.5



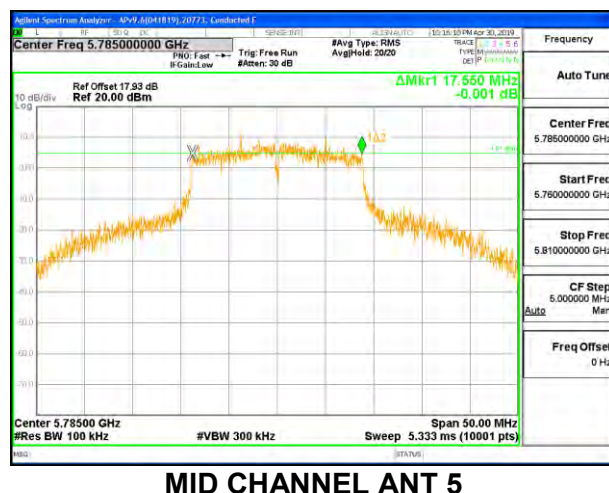
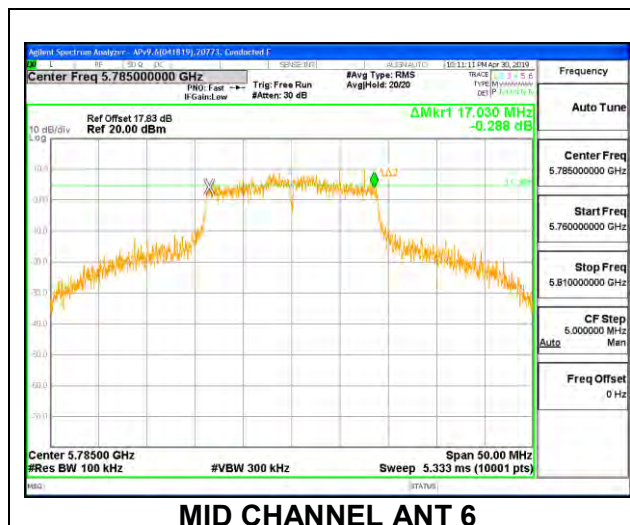
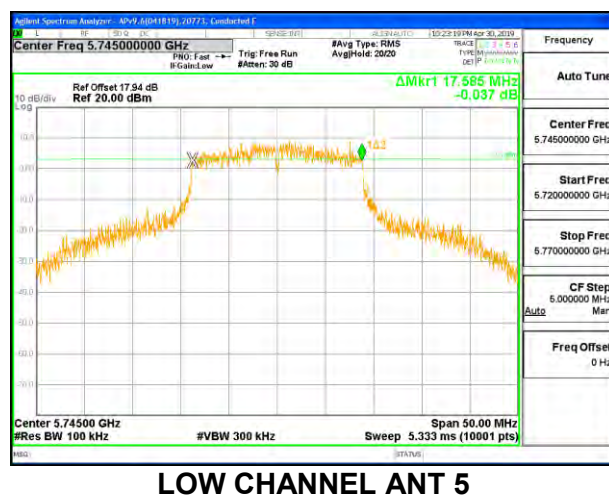
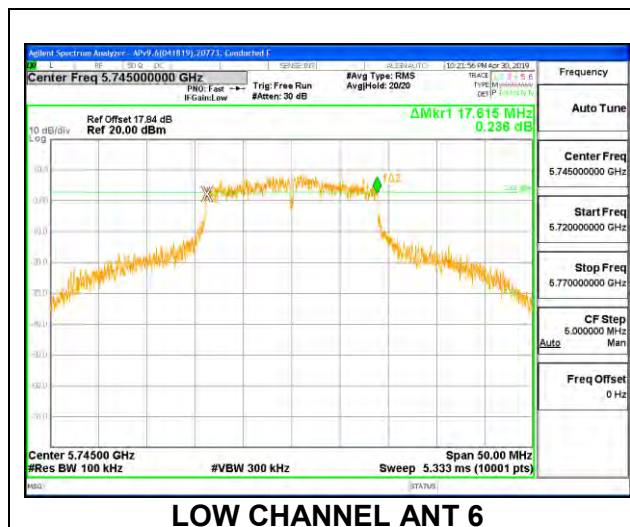
1TX Antenna 5 MODE

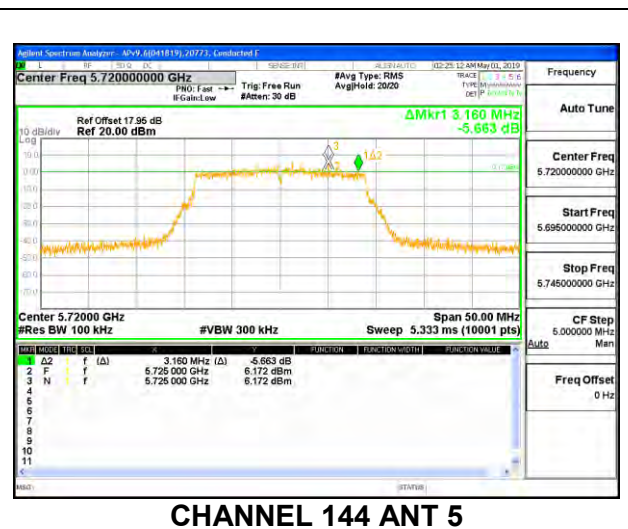
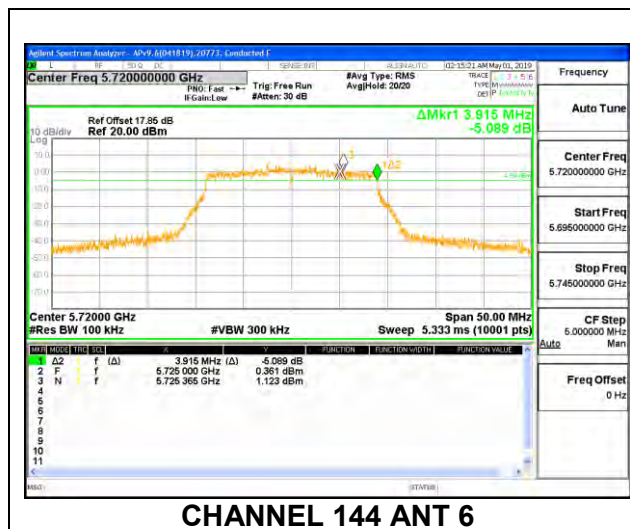
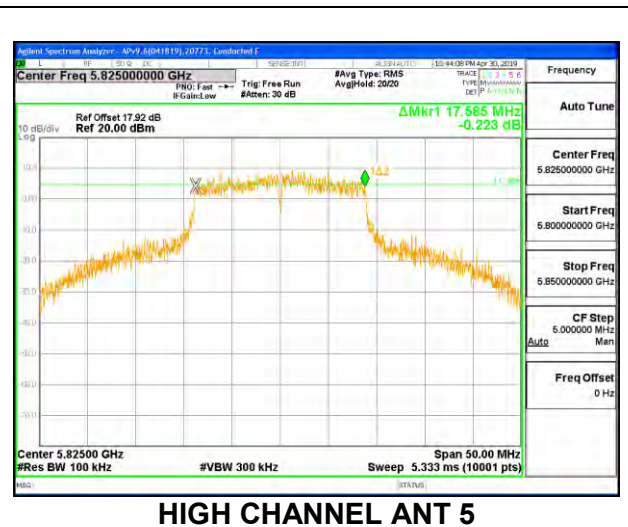
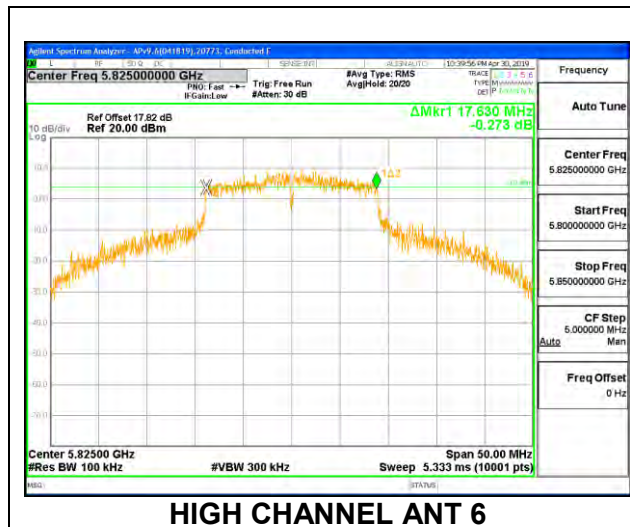
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.595	0.5
Mid	5785	17.620	0.5
High	5825	17.570	0.5
144	5720	3.905	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5745	17.615	17.585	0.5
Mid	5785	17.030	17.550	0.5
High	5825	17.630	17.585	0.5
144	5720	3.915	3.160	0.5





8.4.2. 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	35.340	0.5
High	5795	35.680	0.5
142	5710	3.280	0.5



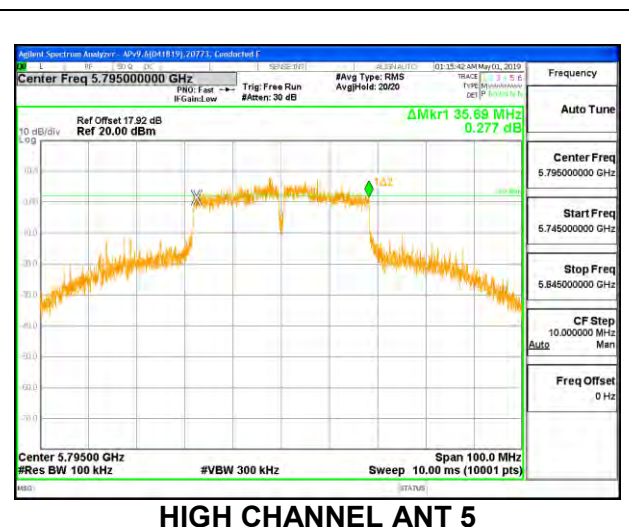
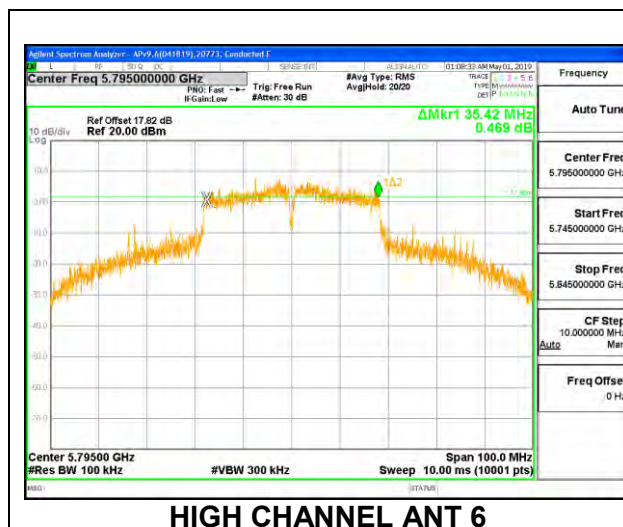
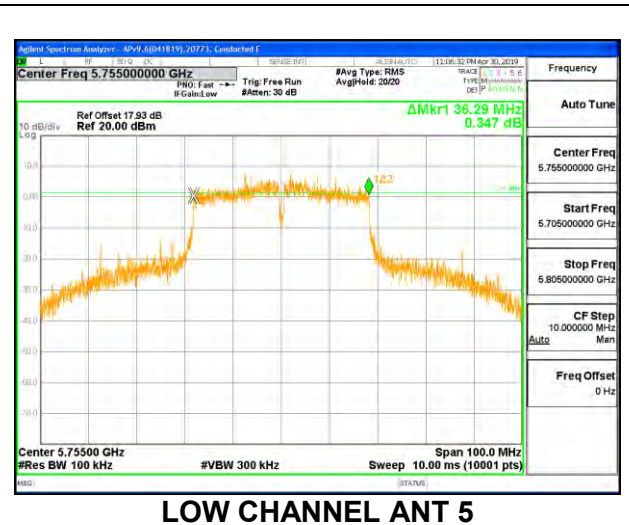
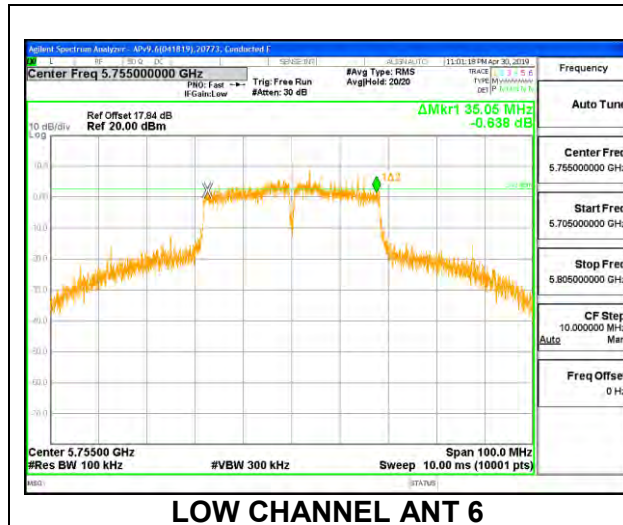
1TX Antenna 5 MODE

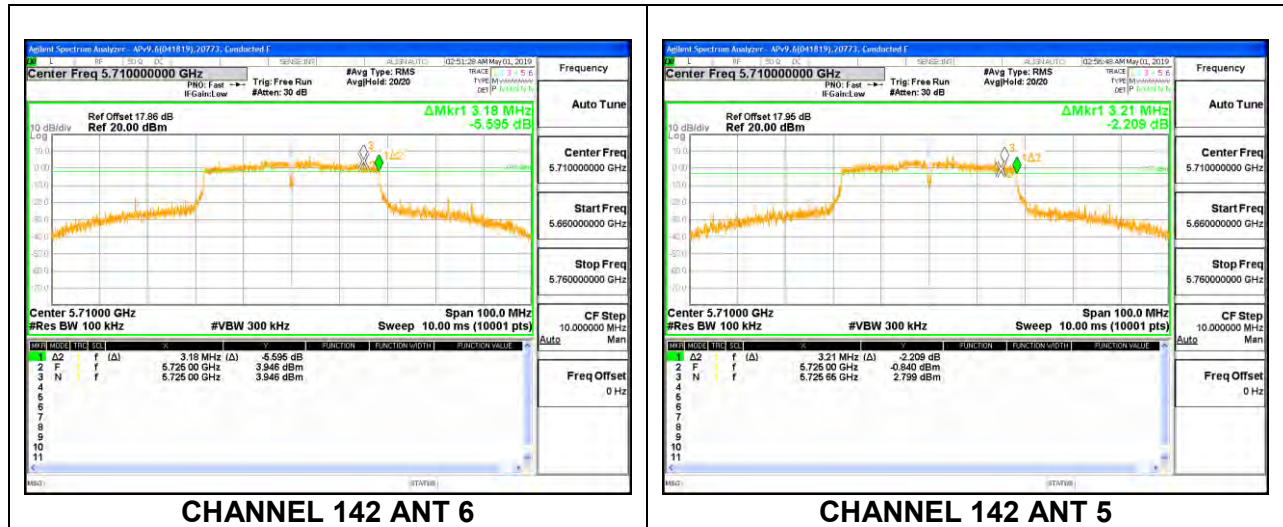
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	35.300	0.5
High	5795	36.330	0.5
142	5710	2.860	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5755	35.050	36.290	0.5
High	5795	35.420	35.690	0.5
142	5710	3.180	3.210	0.5

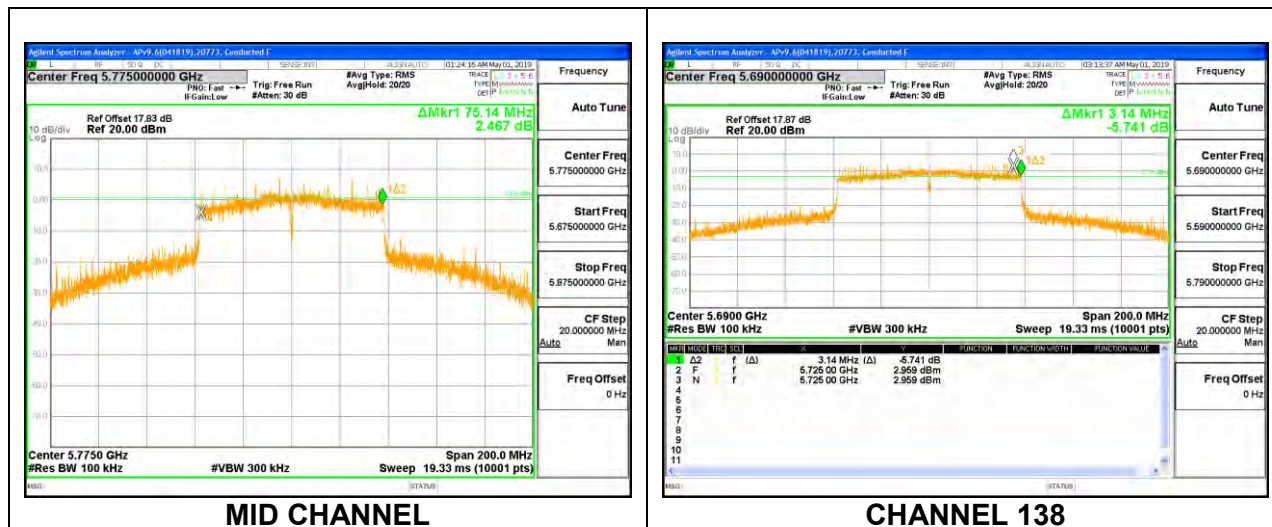




8.4.3. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

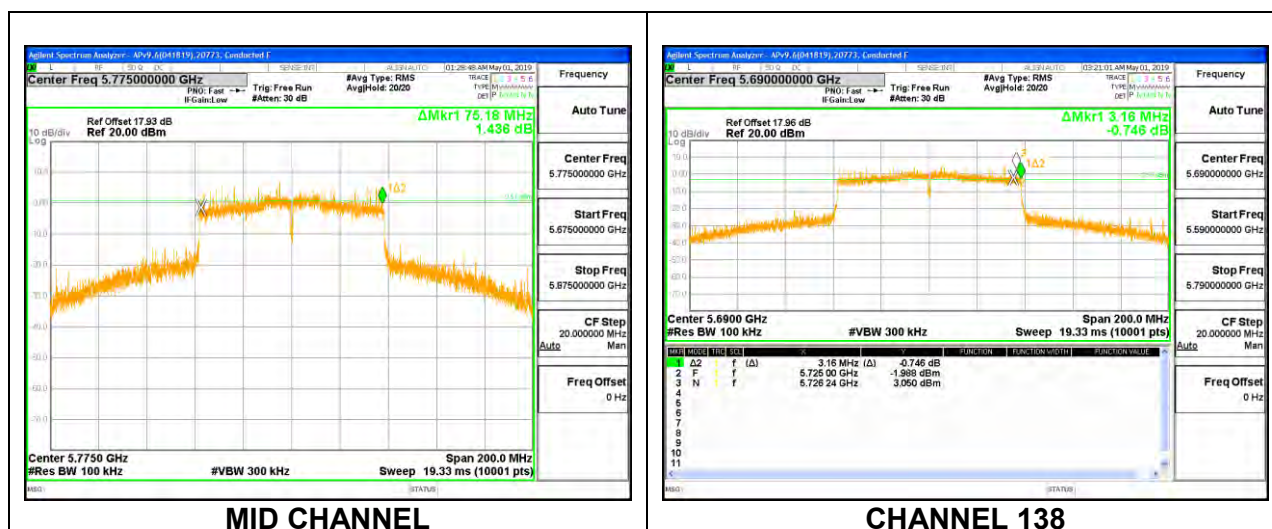
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.140	0.5
138	5690	3.140	0.5



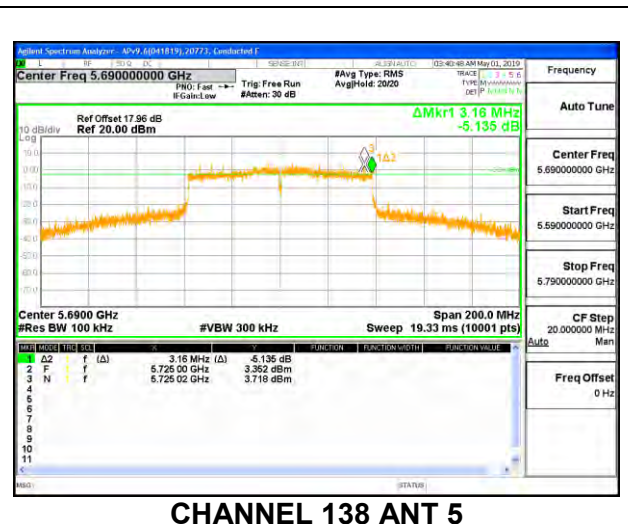
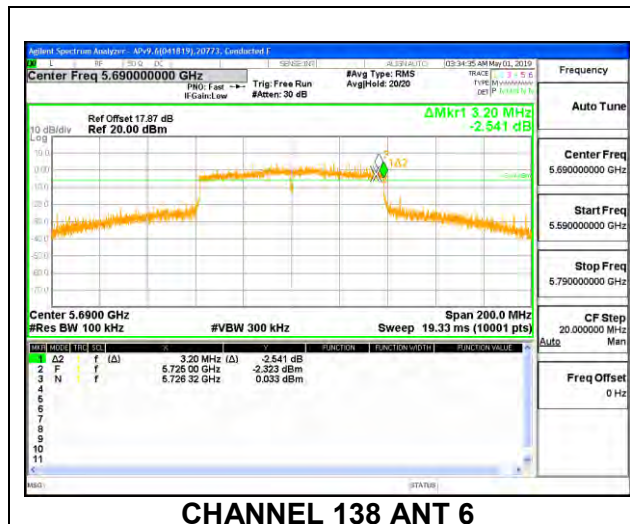
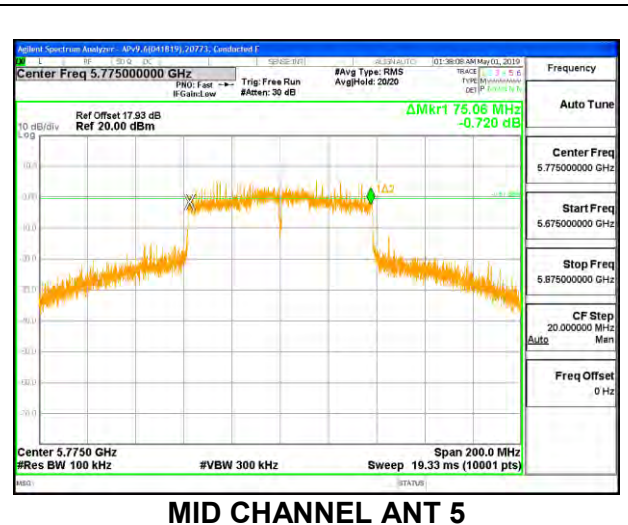
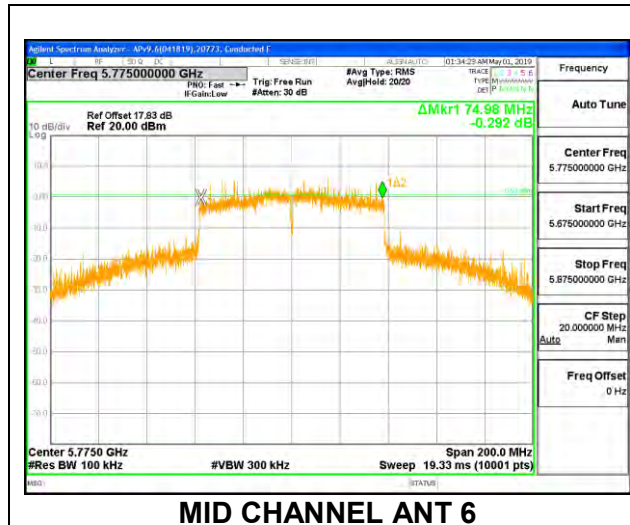
1TX Antenna 5 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.180	0.5
138	5690	3.160	0.5



2TX Antenna 6 + Antenna 5 CDD MODE

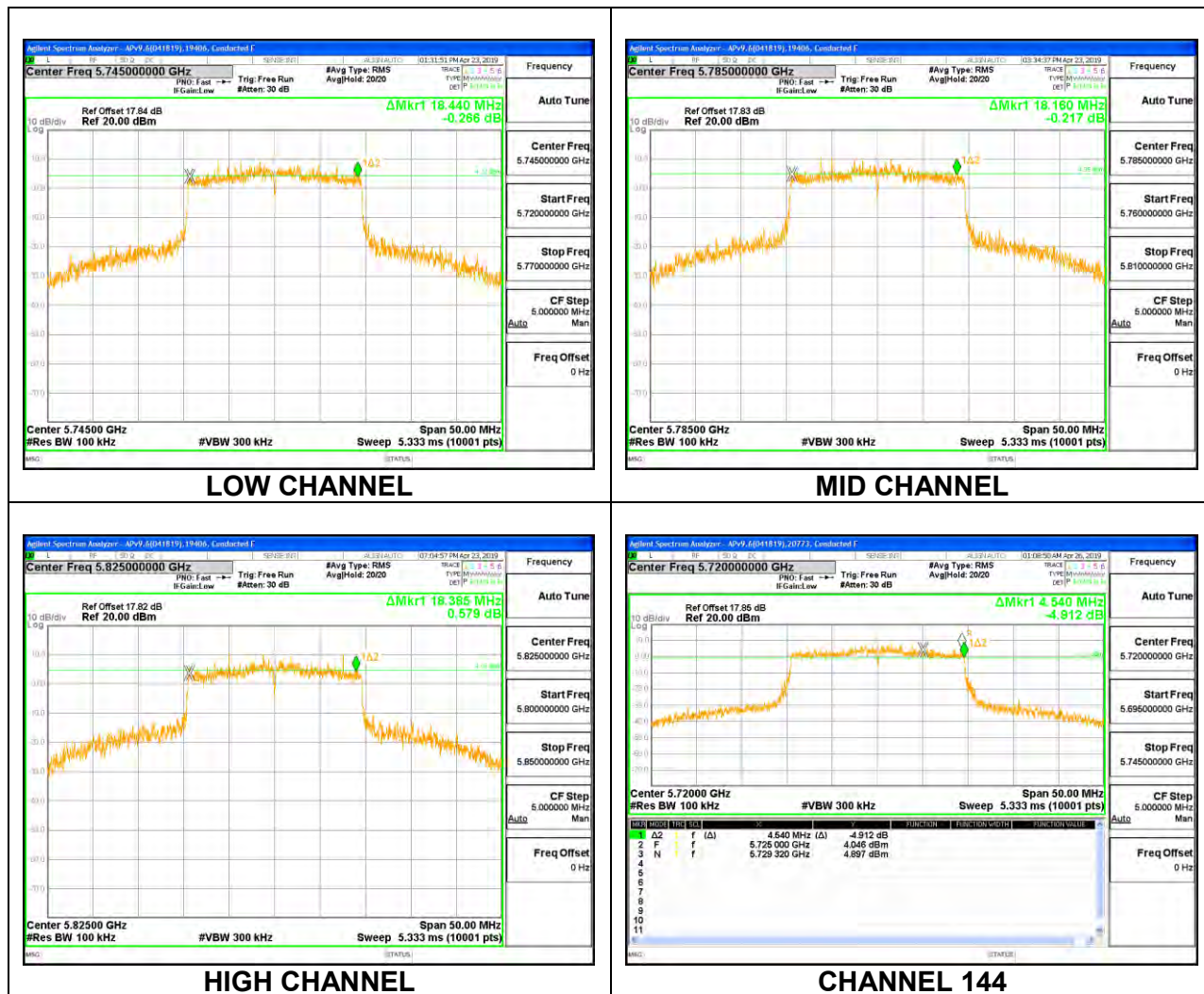
Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Mid	5775	74.980	75.060	0.5
138	5690	3.200	3.160	0.5



8.4.4. 802.11ax HE20 MODE IN THE 5.8 GHz BAND

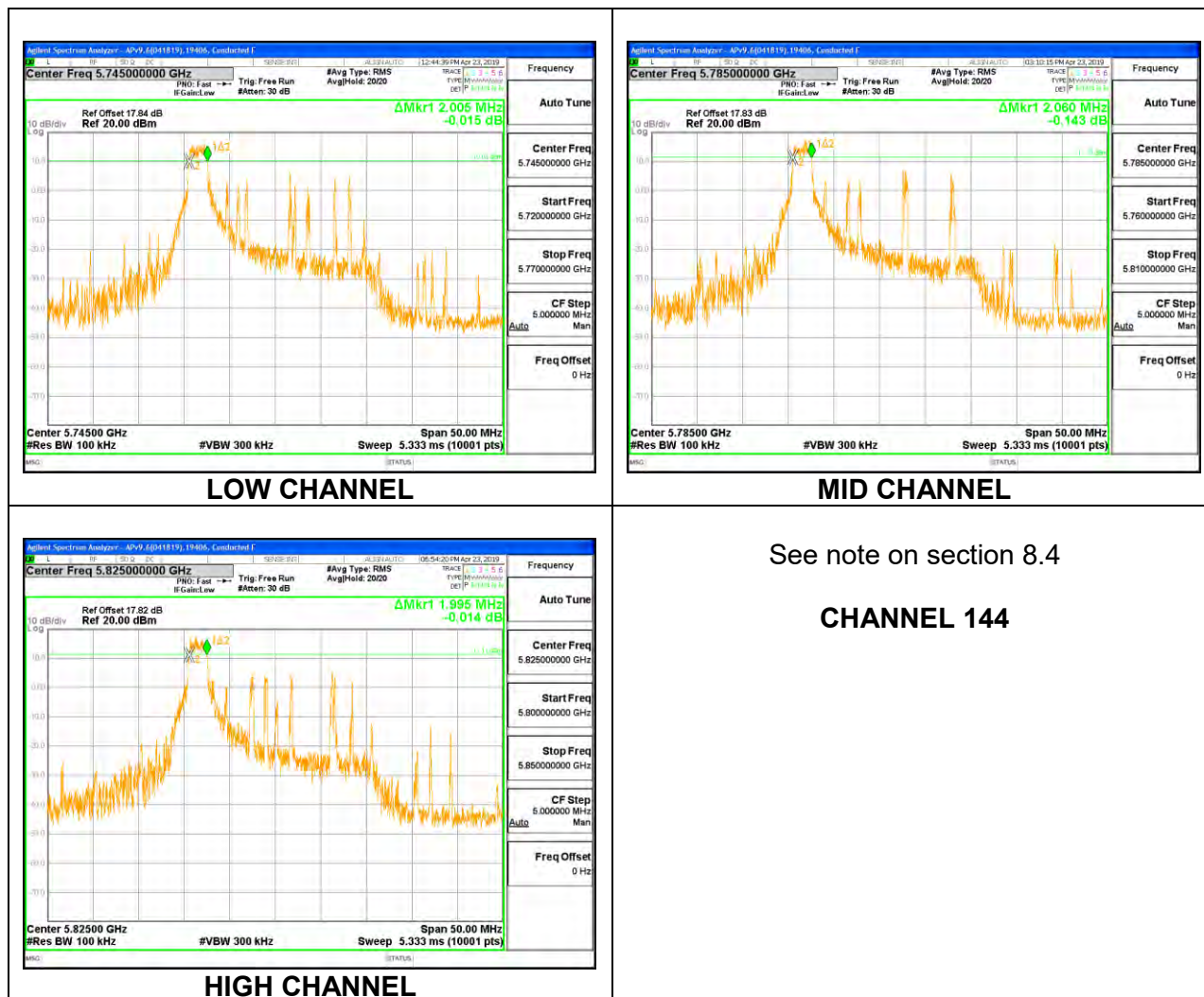
1TX Antenna 6 MODE – 242 Tones, RU Index 61

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	18.440	0.5
Mid	5785	18.160	0.5
High	5825	18.385	0.5
144	5720	4.540	0.5



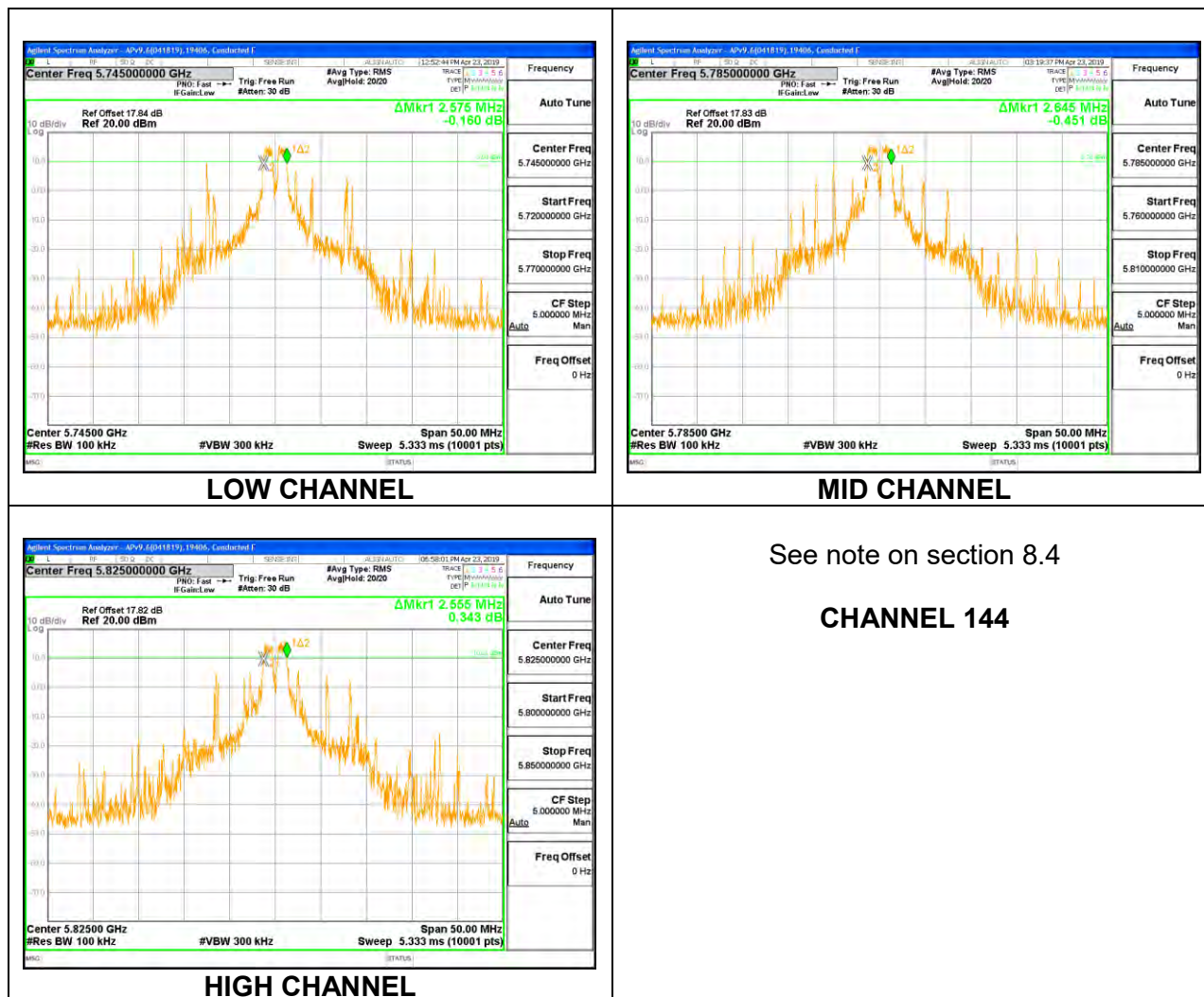
1TX Antenna 6 MODE – 26 Tones, RU Index 0

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	2.005	0.5
Mid	5785	2.060	0.5
High	5825	1.995	0.5



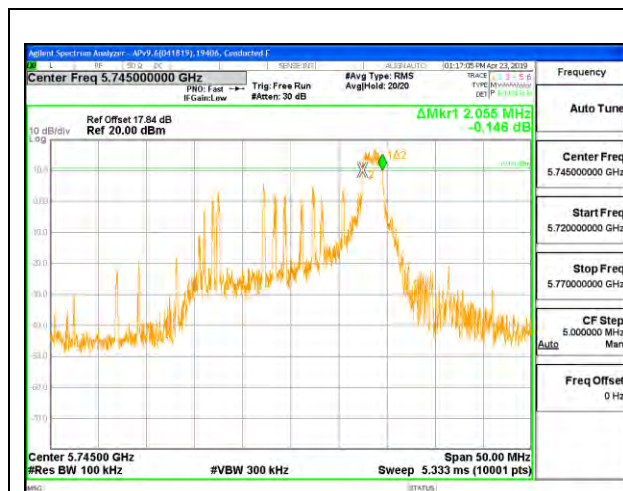
1TX Antenna 6 MODE – 26 Tones, RU Index 4

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.575	0.5
Mid	5785	2.645	0.5
High	5825	2.555	0.5

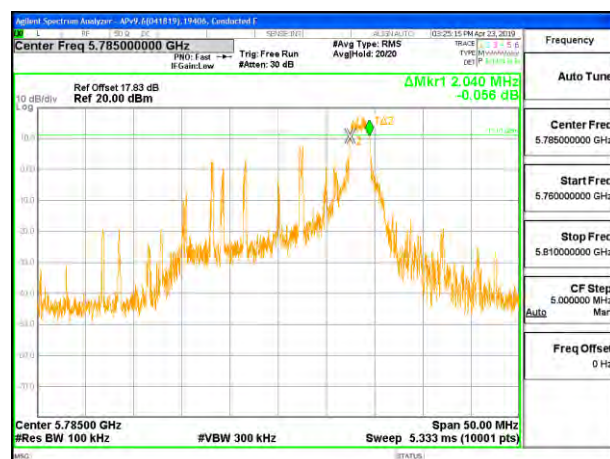


1TX Antenna 6 MODE – 26 Tones, RU Index 8

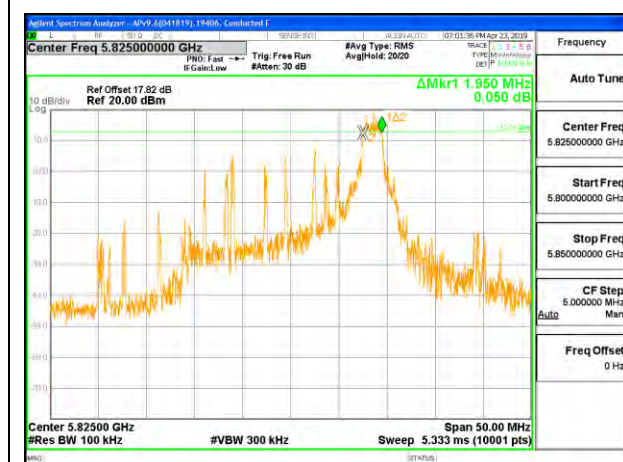
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.055	0.5
Mid	5785	2.040	0.5
High	5825	1.950	0.5
144	5720	1.990	0.5



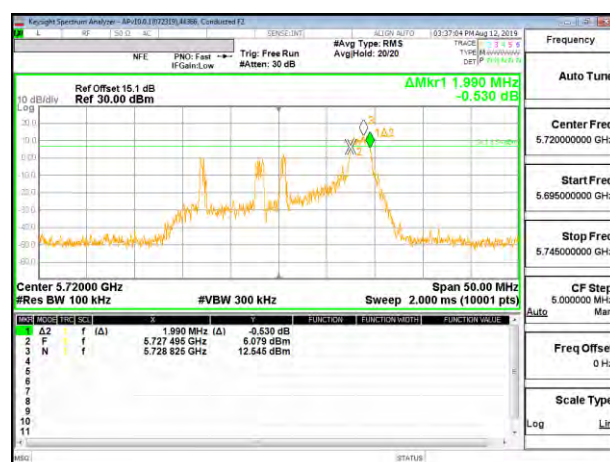
LOW CHANNEL



MID CHANNEL



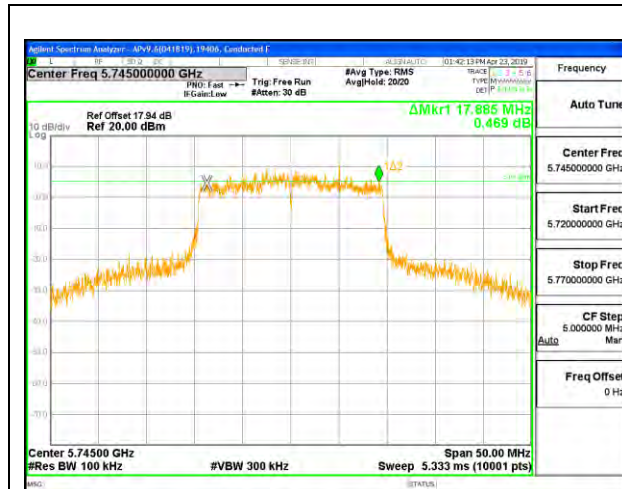
HIGH CHANNEL



CHANNEL 144

1TX Antenna 5 MODE – 242 Tones, RU Index 61

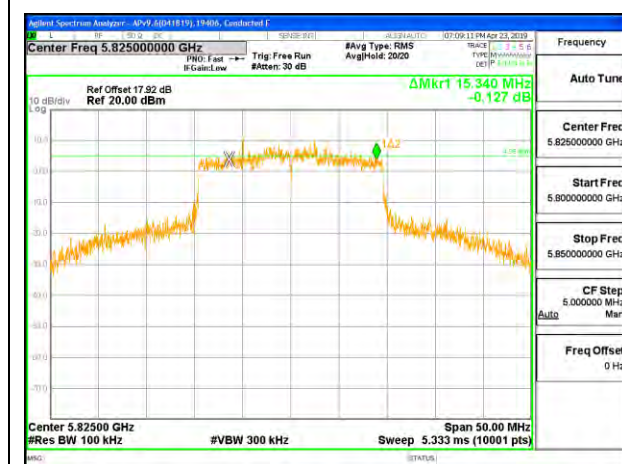
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	17.885	0.5
Mid	5785	18.240	0.5
High	5825	15.340	0.5
144	5720	4.590	0.5



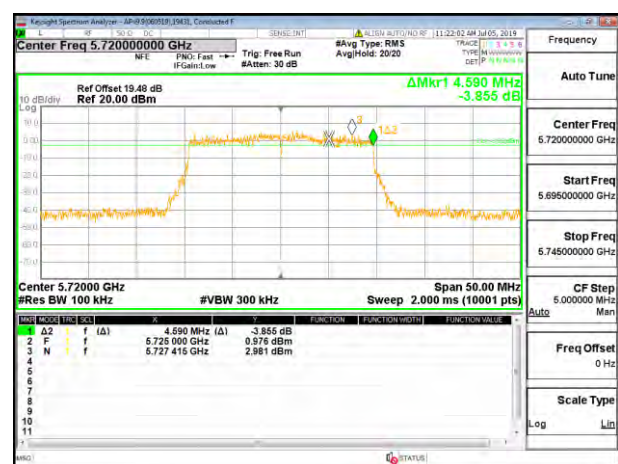
LOW CHANNEL



MID CHANNEL



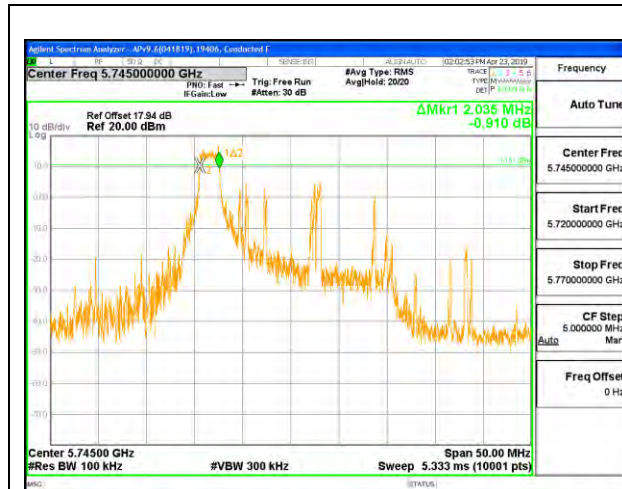
HIGH CHANNEL



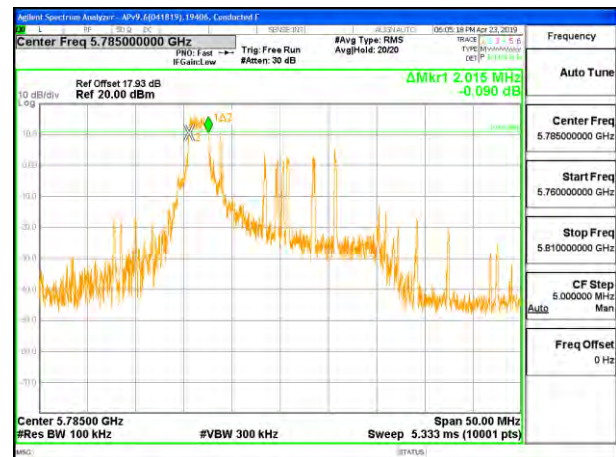
CHANNEL 144

1TX Antenna 5 MODE – 26 Tones, RU Index 0

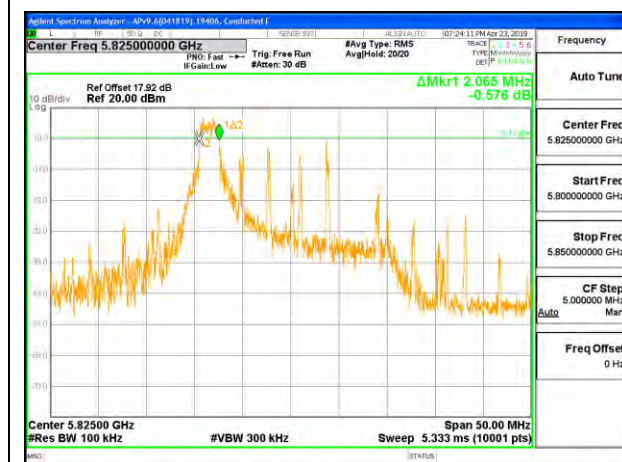
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.035	0.5
Mid	5785	2.015	0.5
High	5825	2.065	0.5



LOW CHANNEL



MID CHANNEL



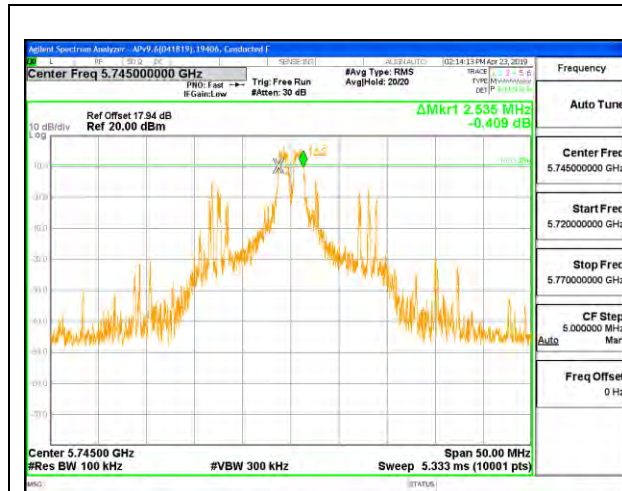
HIGH CHANNEL

See note on section 8.4

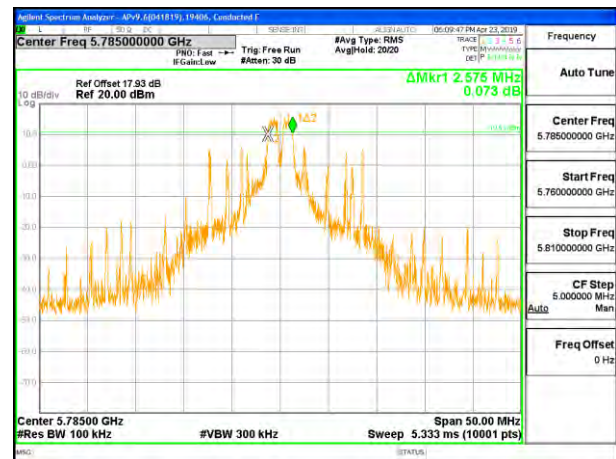
CHANNEL 144

1TX Antenna 5 MODE – 26 Tones, RU Index 4

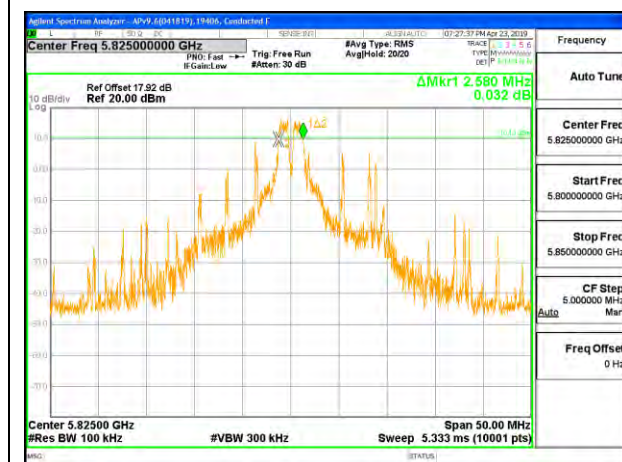
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	2.535	0.5
Mid	5785	2.575	0.5
High	5825	2.580	0.5



LOW CHANNEL



MID CHANNEL



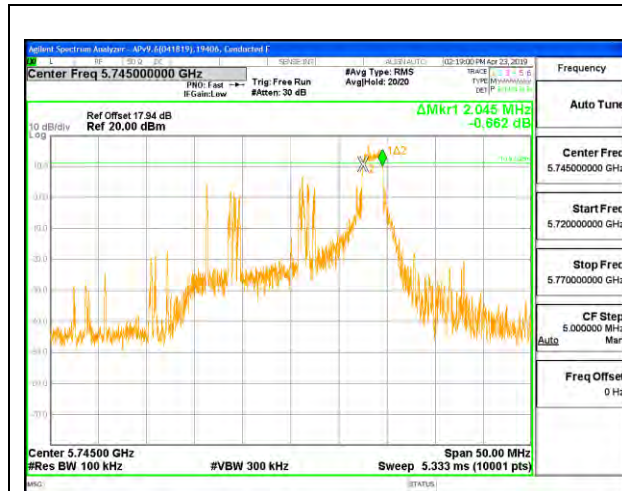
HIGH CHANNEL

See note on section 8.4

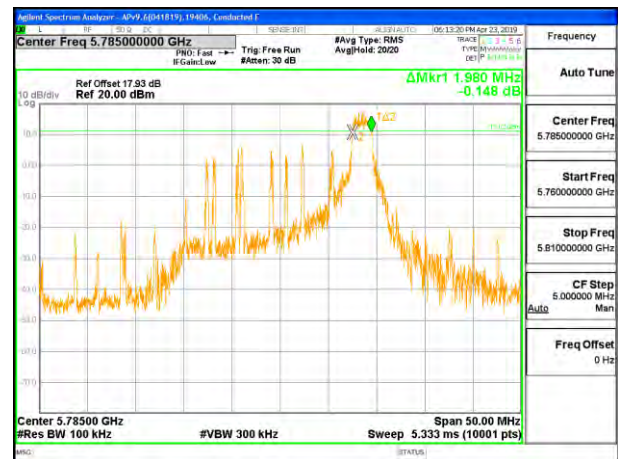
CHANNEL 144

1TX Antenna 5 MODE – 26 Tones, RU Index 8

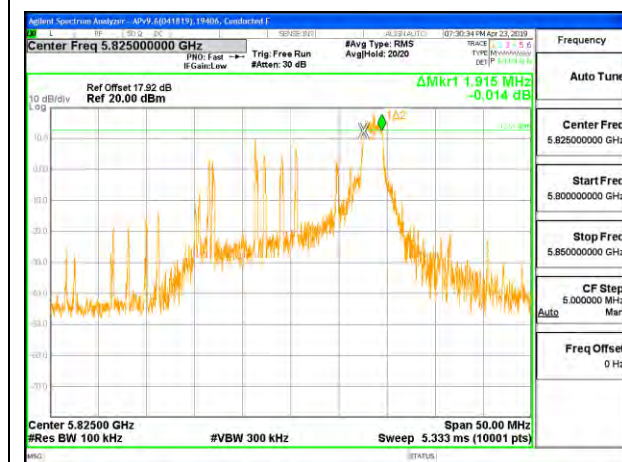
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	2.045	0.5
Mid	5785	1.980	0.5
High	5825	1.915	0.5
144	5720	2.055	0.5



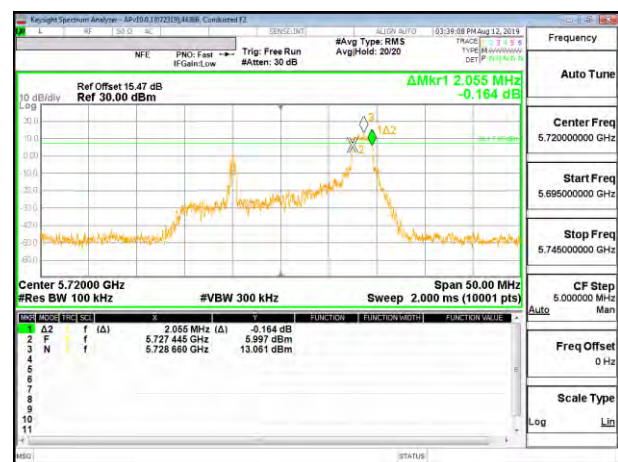
LOW CHANNEL



MID CHANNEL



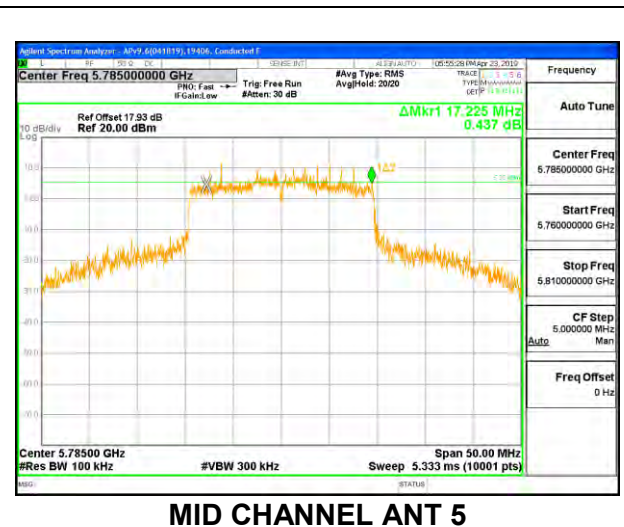
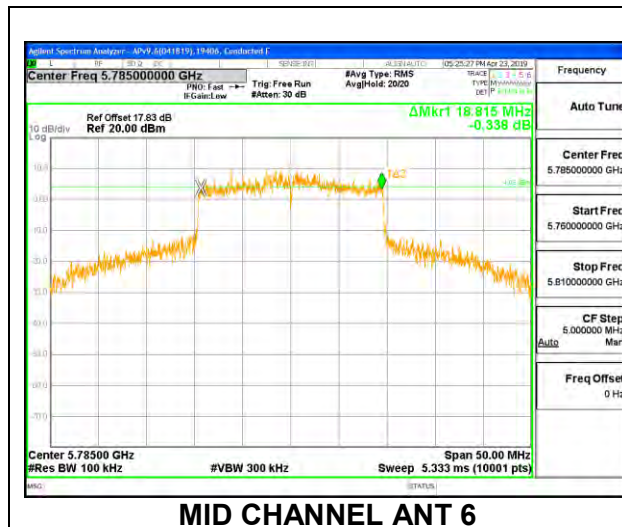
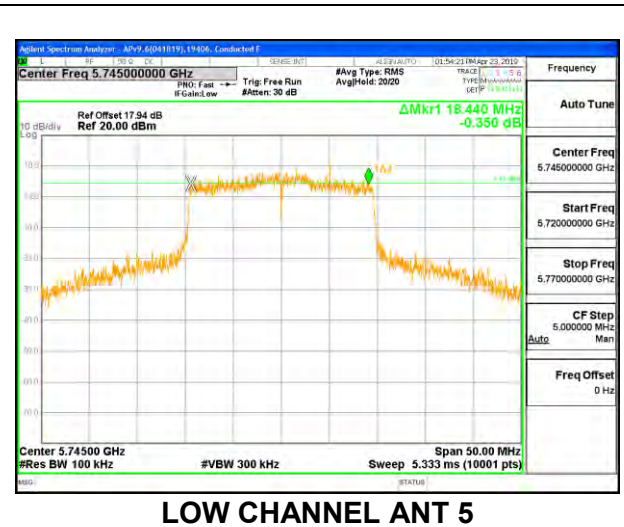
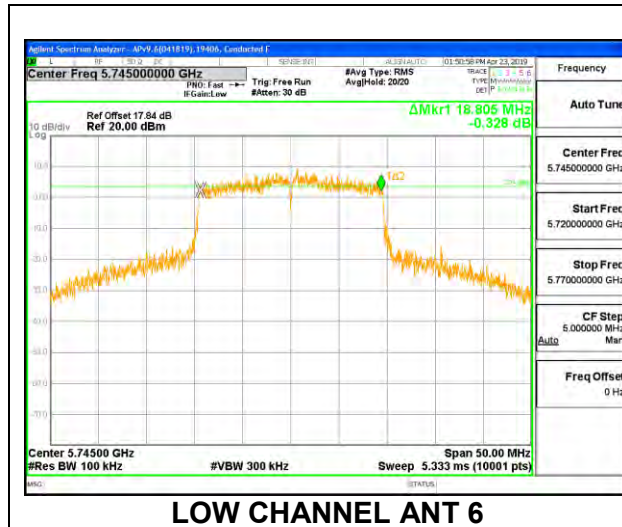
HIGH CHANNEL

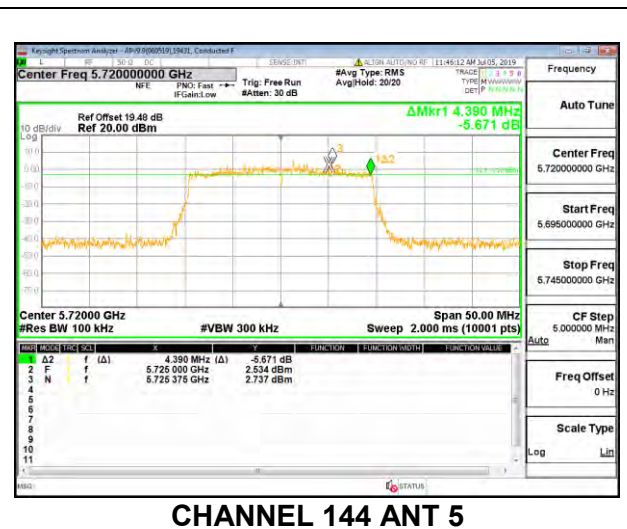
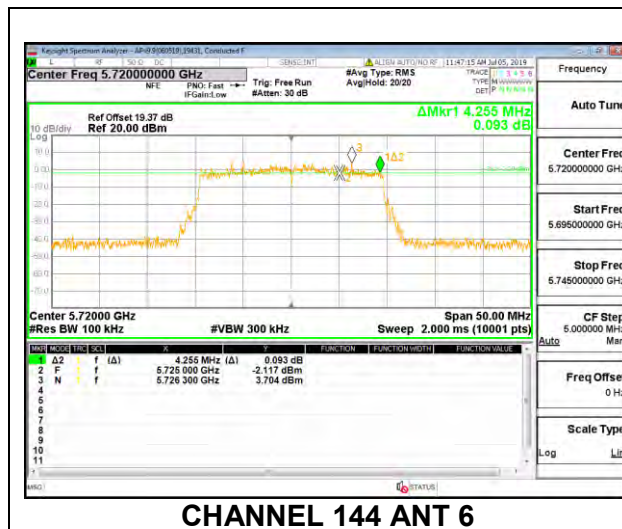
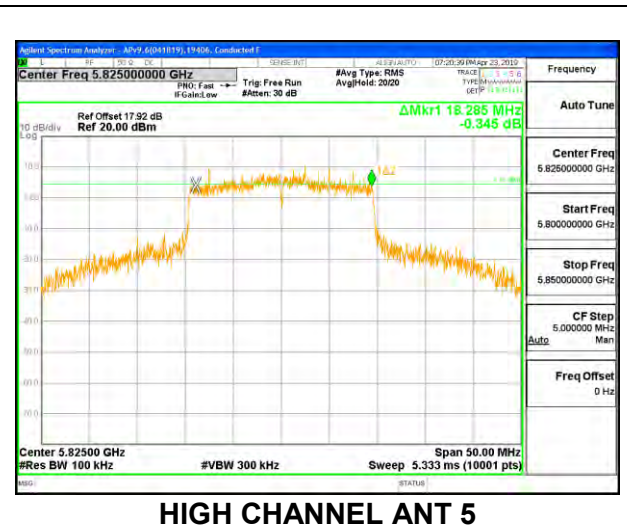
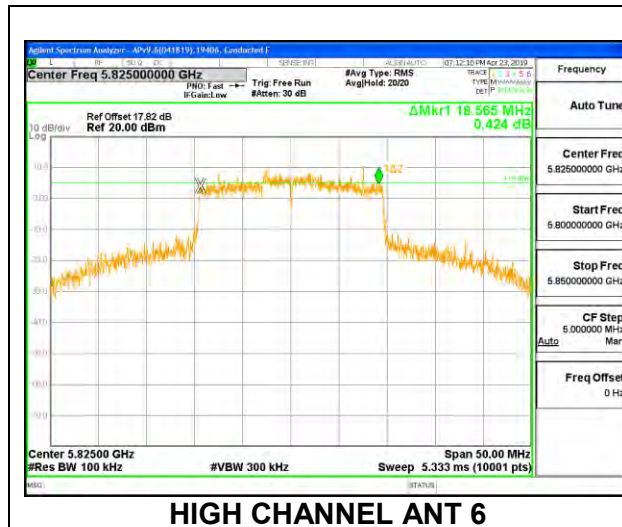


CHANNEL 144

2TX Antenna 6 + Antenna 5 OFDMA MODE – 242 Tones, RU Index 61

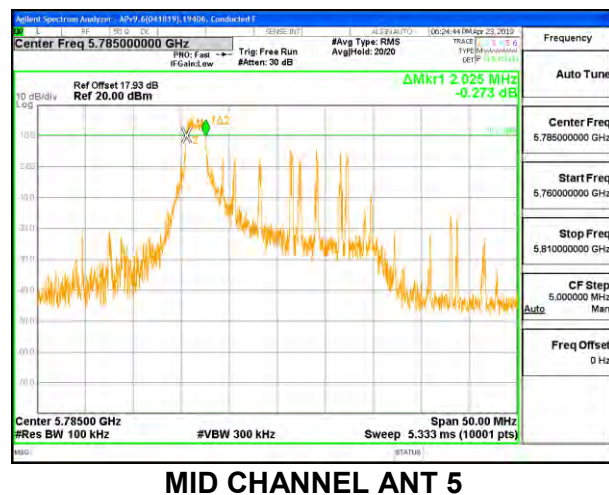
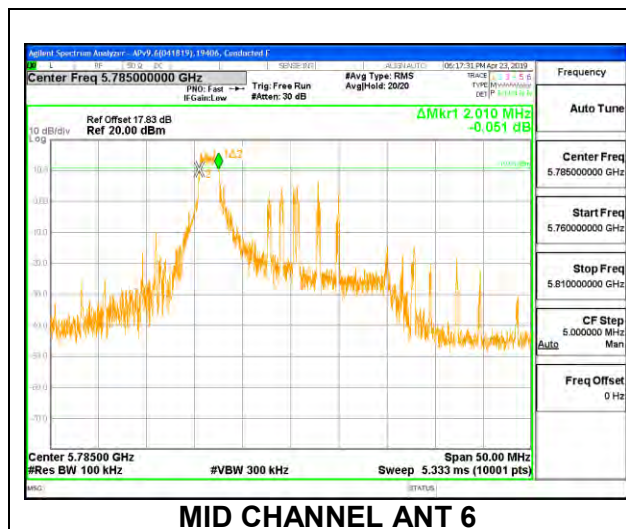
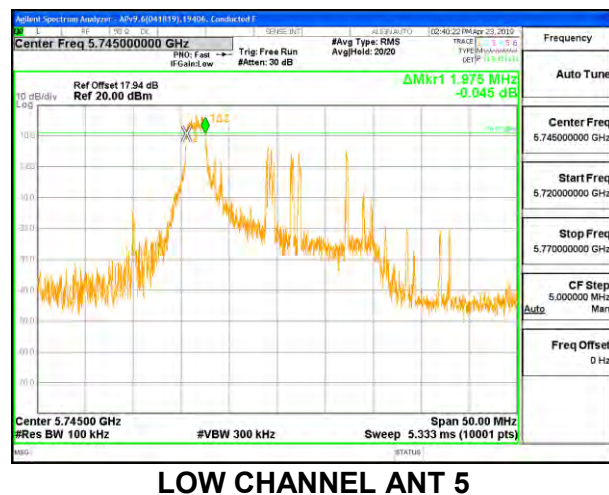
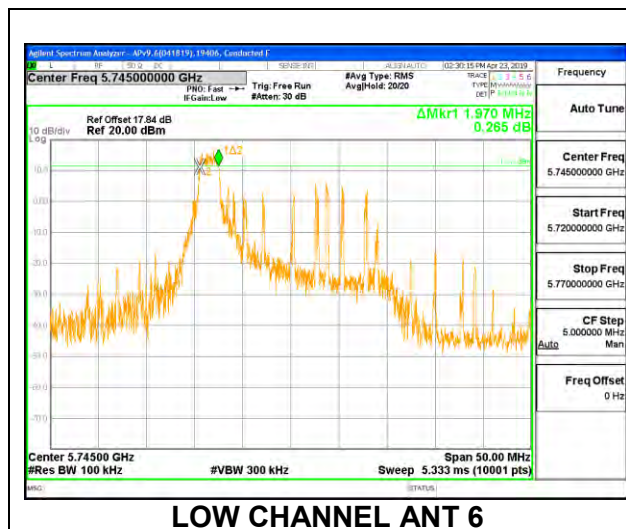
Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5745	18.805	18.440	0.5
Mid	5785	18.815	17.225	0.5
High	5825	18.565	18.285	0.5
144	5720	4.255	4.390	0.5

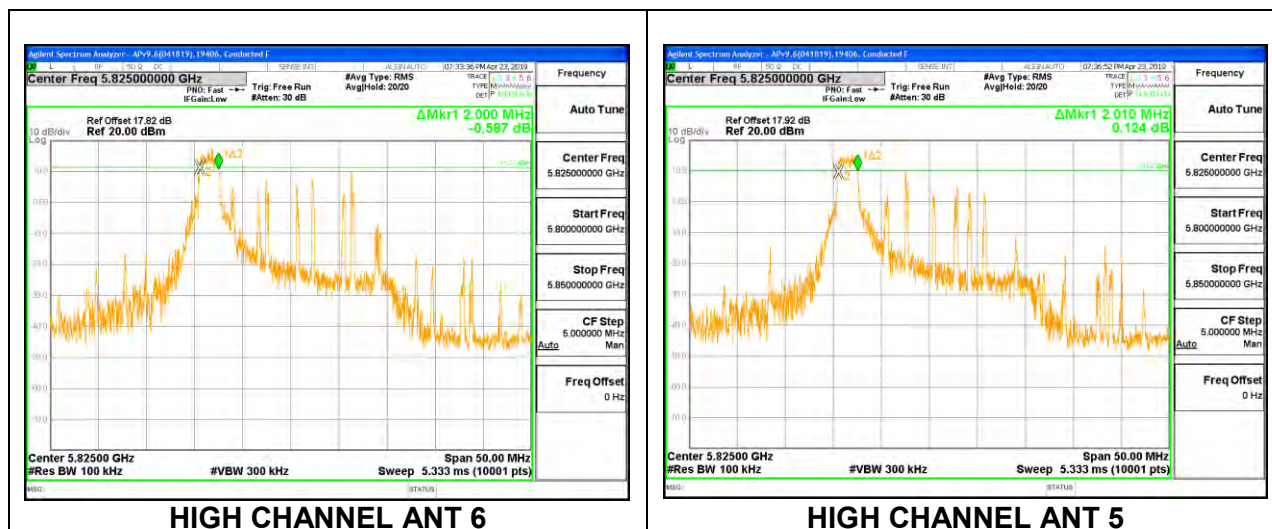




2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5745	1.970	1.975	0.5
Mid	5785	2.010	2.025	0.5
High	5825	2.000	2.010	0.5





See note on section 8.4

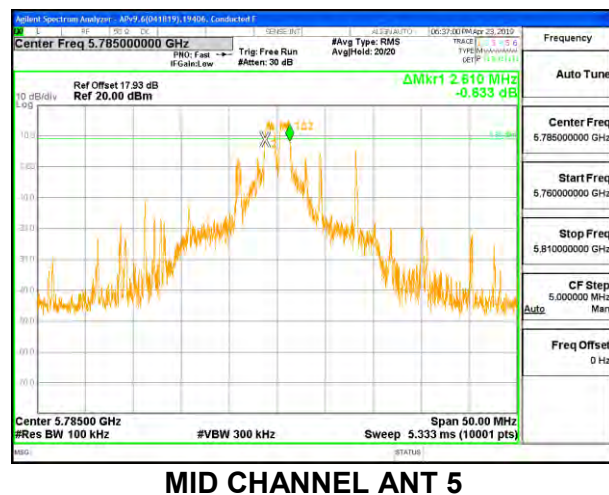
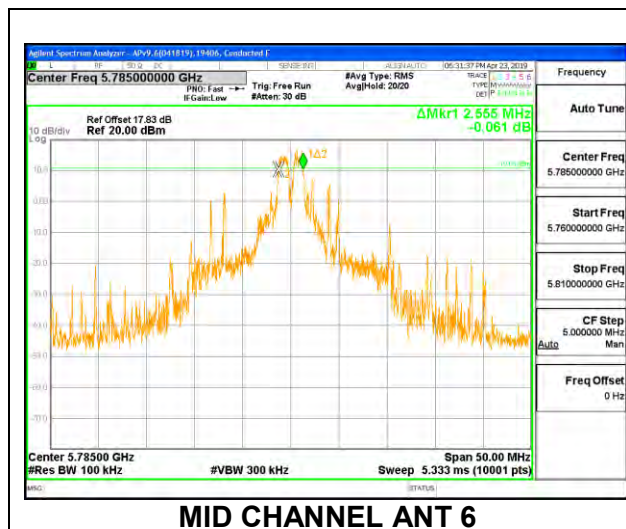
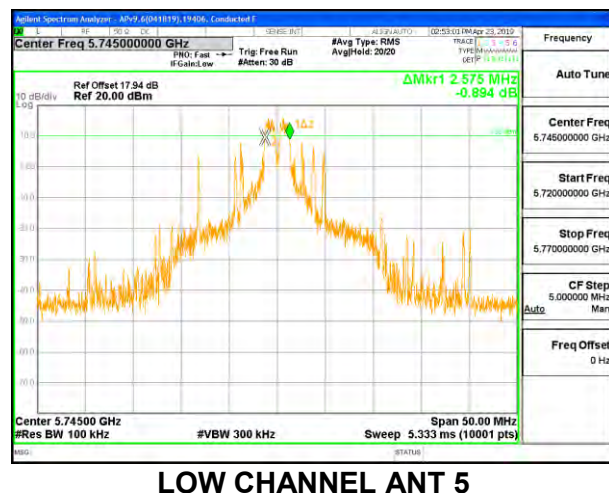
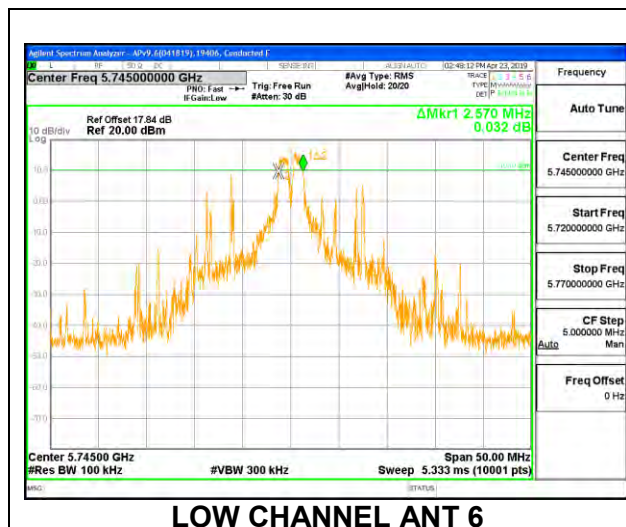
CHANNEL 144 ANT 6

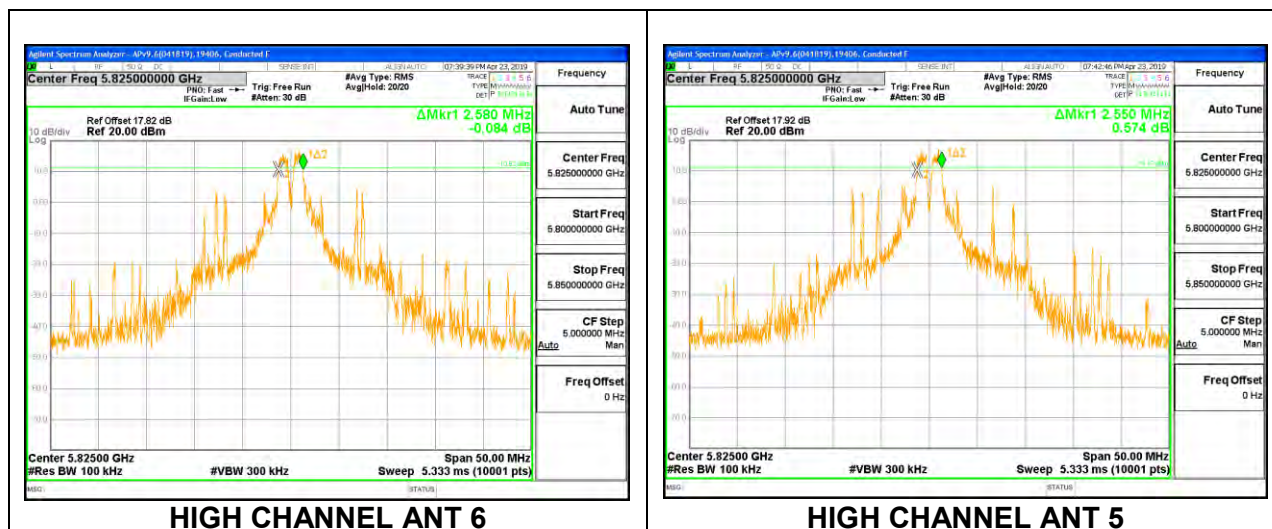
See note on section 8.4

CHANNEL 144 ANT 5

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 4

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.570	2.575	0.5
Mid	5785	2.555	2.610	0.5
High	5825	2.580	2.550	0.5





See note on section 8.4

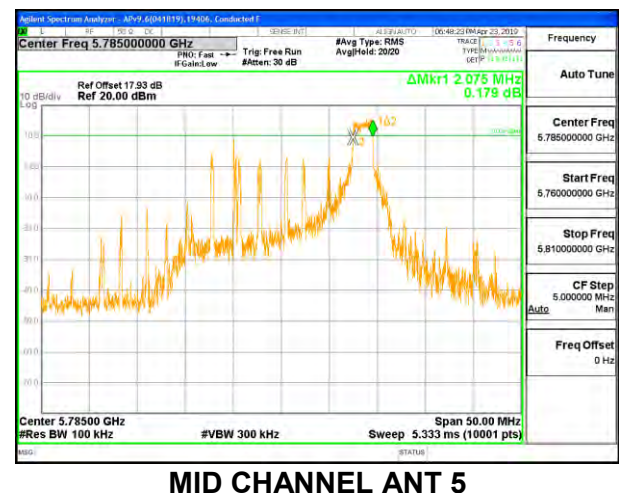
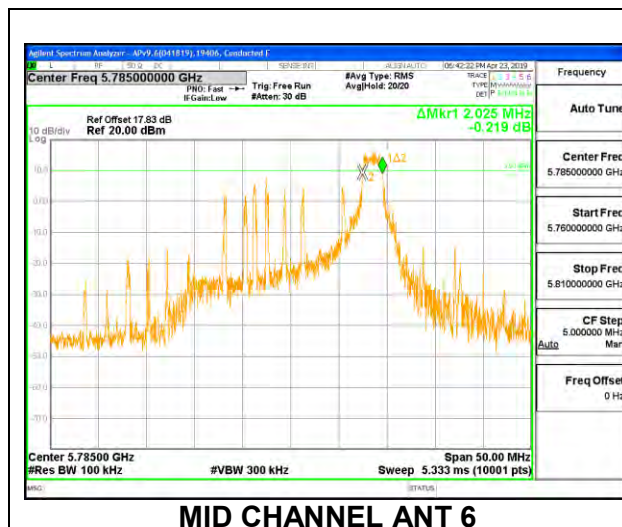
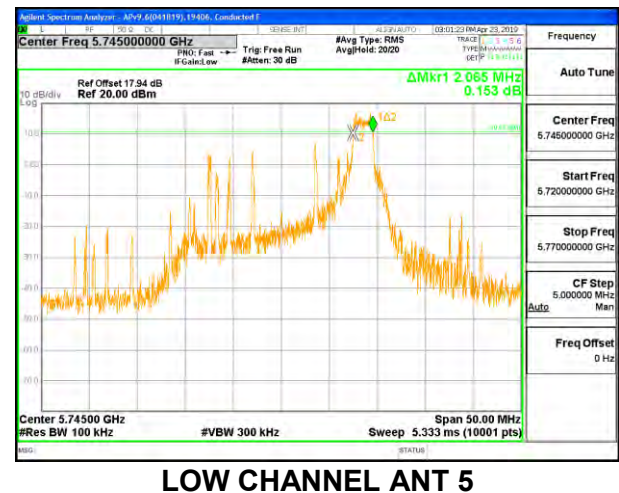
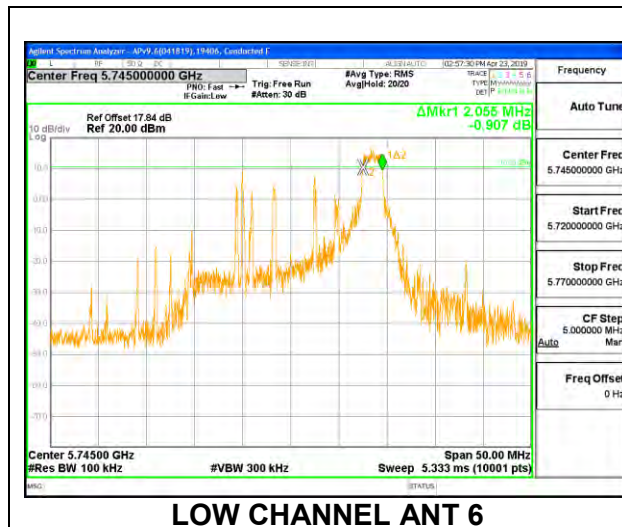
CHANNEL 144 ANT 6

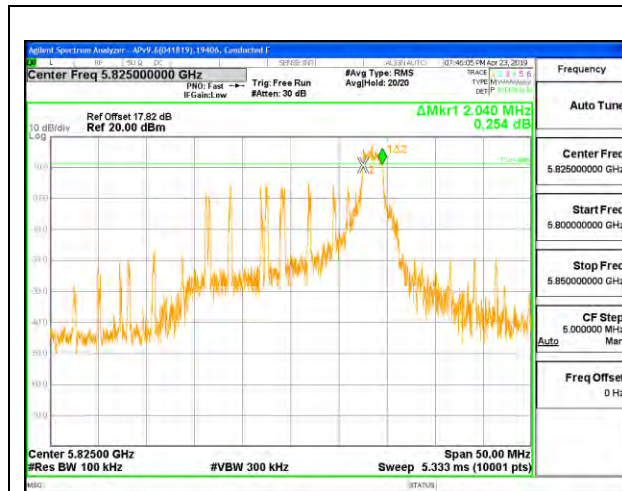
See note on section 8.4

CHANNEL 144 ANT 5

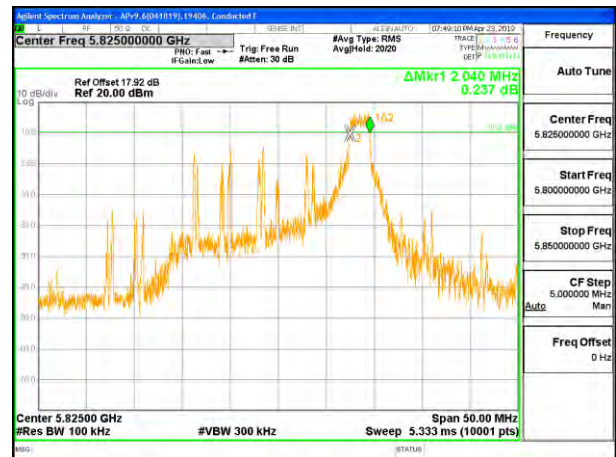
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 8

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.055	2.065	0.5
Mid	5785	2.025	2.075	0.5
High	5825	2.040	2.040	0.5
144	5720	2.005	2.075	0.5

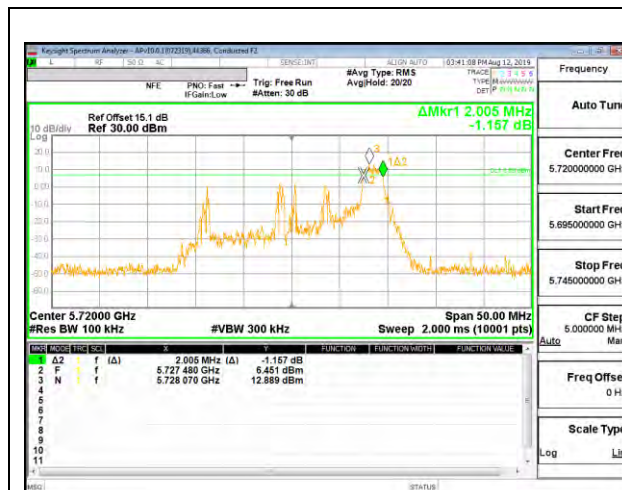




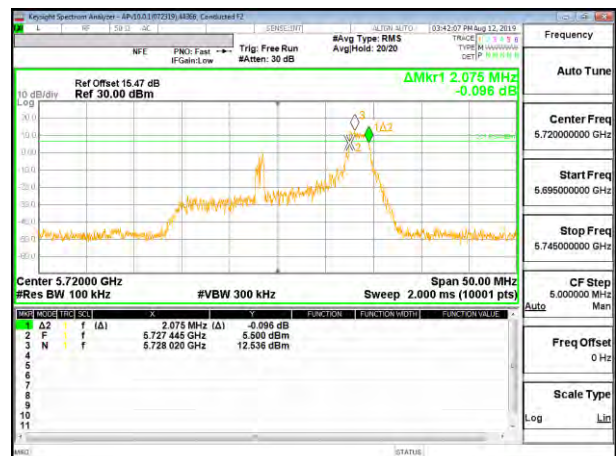
HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5



CHANNEL 144 ANT 6

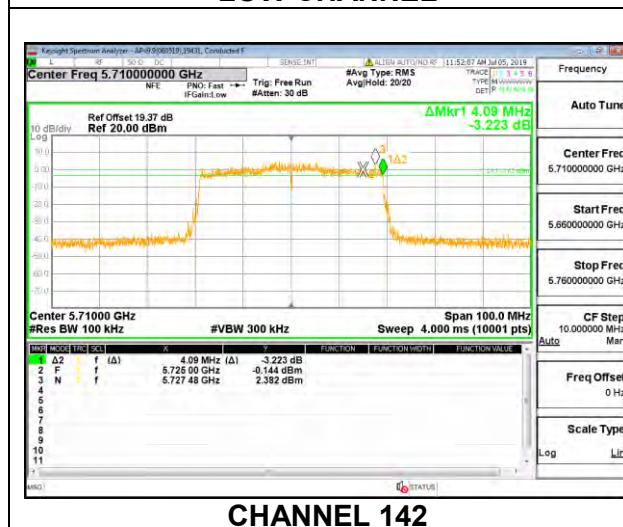
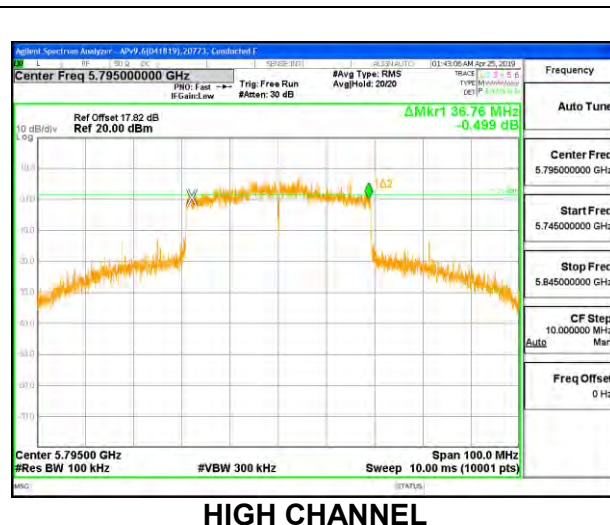
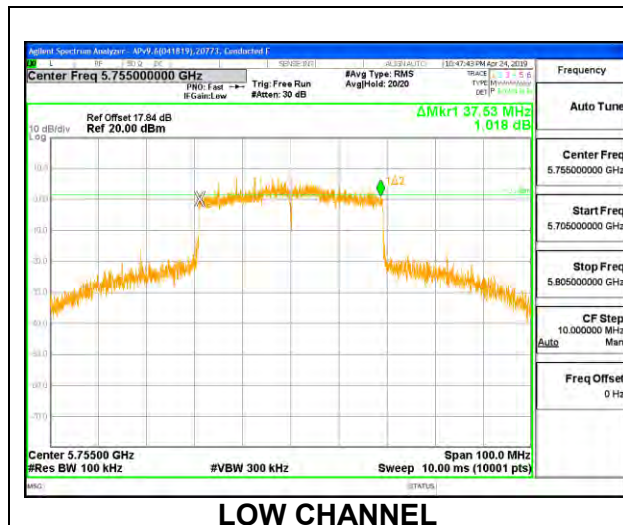


CHANNEL 144 ANT 5

8.4.5. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

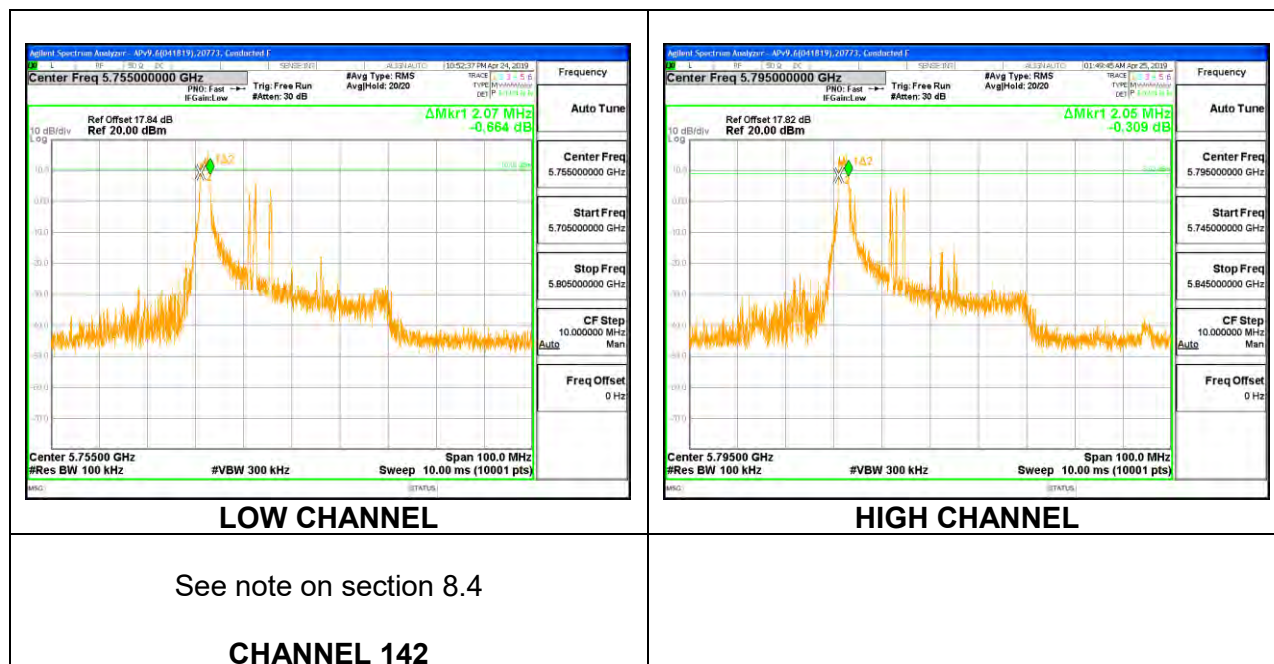
1TX Antenna 6 MODE – 484 Tones, RU Index 65

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	37.530	0.5
High	5795	36.760	0.5
142	5710	4.090	0.5



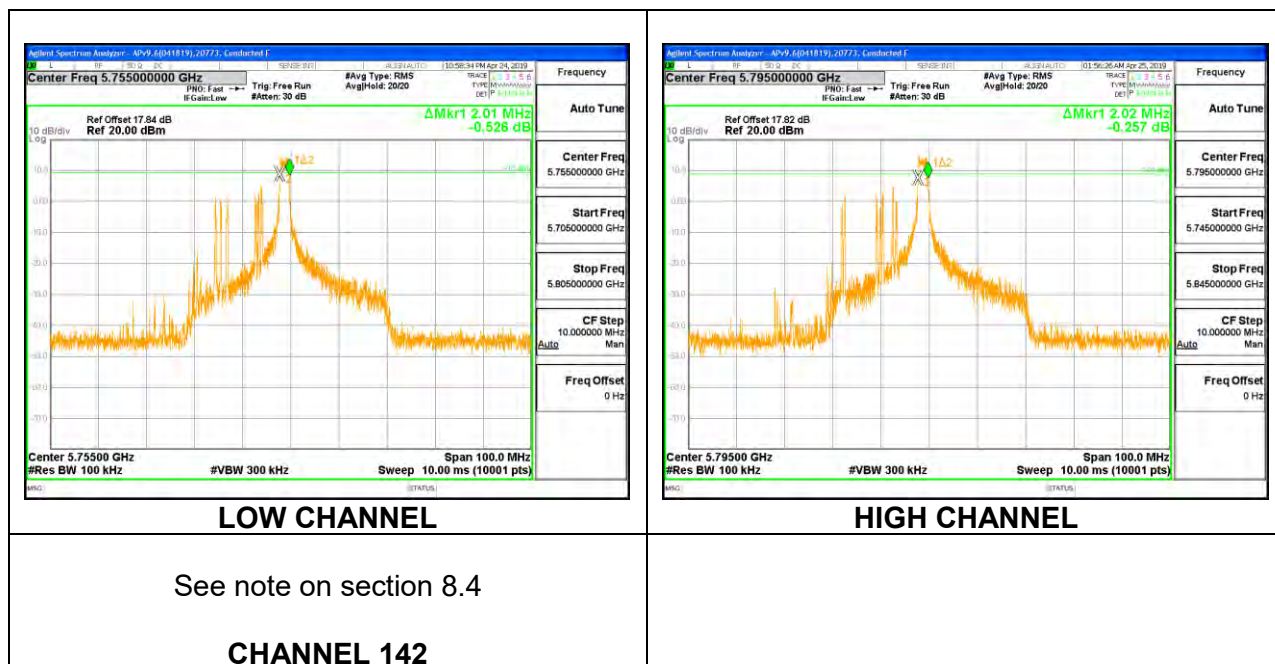
1TX Antenna 6 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.070	0.5
High	5795	2.050	0.5



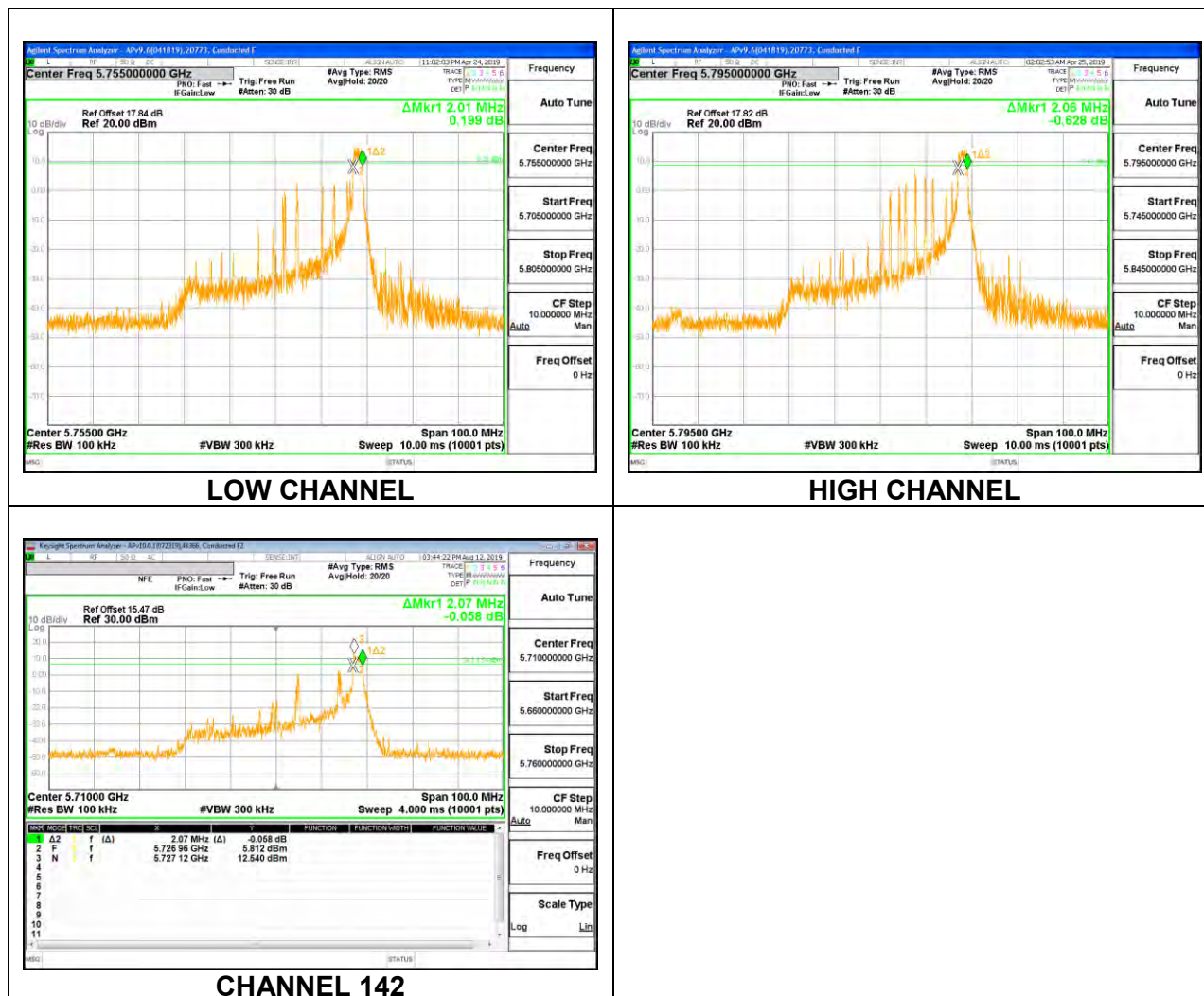
1TX Antenna 6 MODE – 26 Tones, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.010	0.5
High	5795	2.020	0.5



1TX Antenna 6 MODE – 26 Tones, RU Index 17

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	2.010	0.5
High	5795	2.060	0.5
142	5710	2.070	0.5

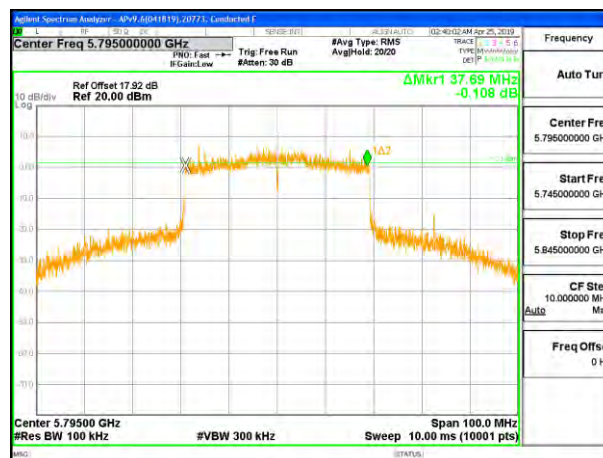


1TX Antenna 5 MODE – 484 Tones, RU Index 65

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	37.870	0.5
High	5795	37.690	0.5
142	5710	3.640	0.5



LOW CHANNEL



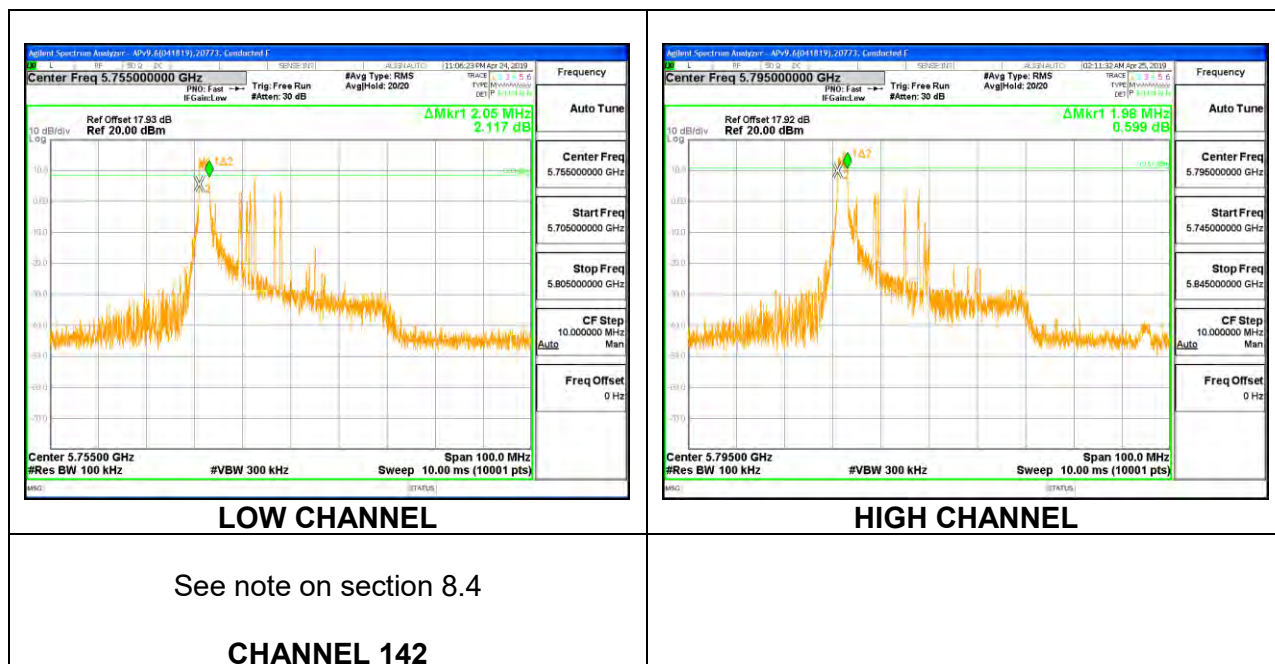
HIGH CHANNEL



CHANNEL 142

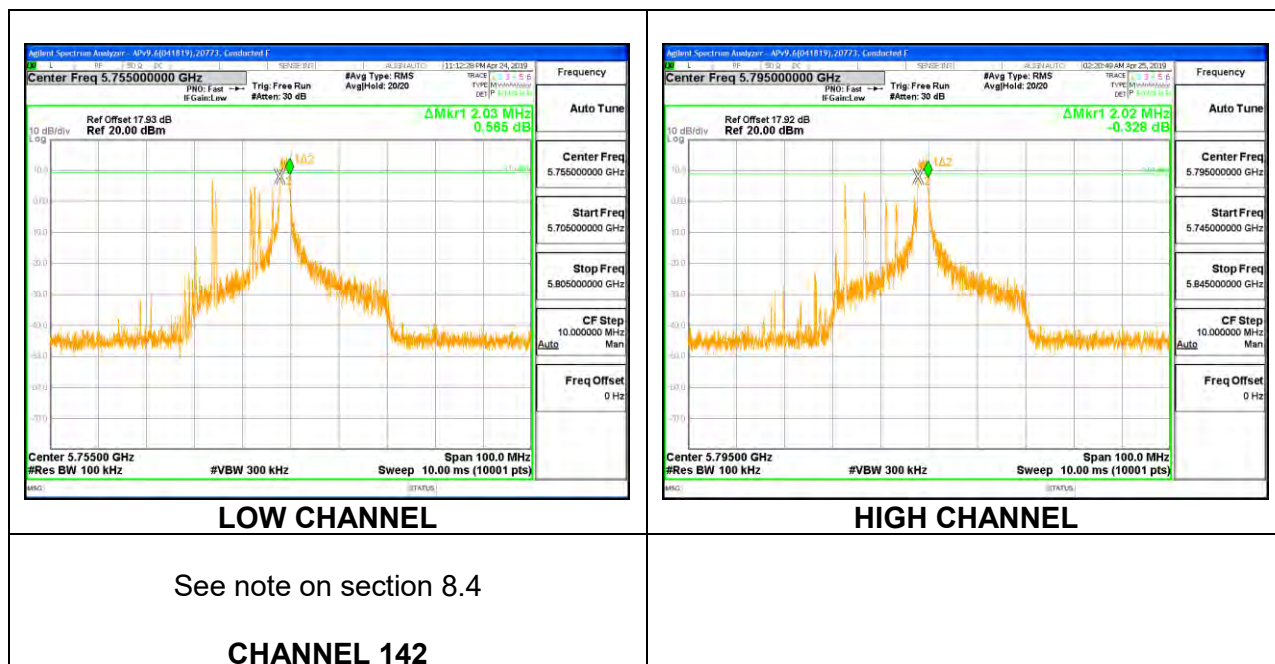
1TX Antenna 5 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.050	0.5
High	5795	1.980	0.5



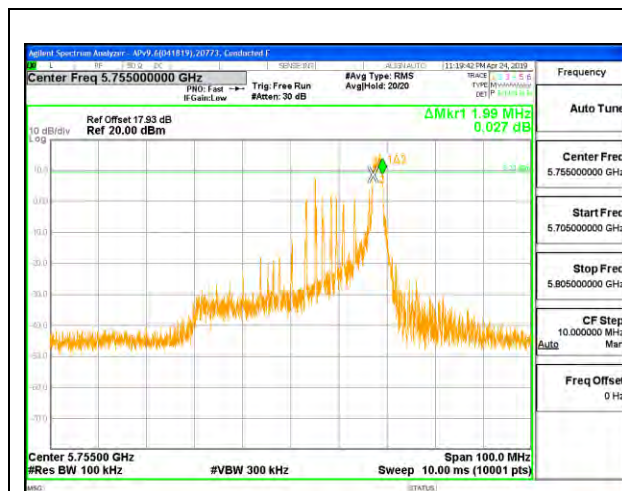
1TX Antenna 5 MODE – 26 Tones, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.030	0.5
High	5795	2.020	0.5

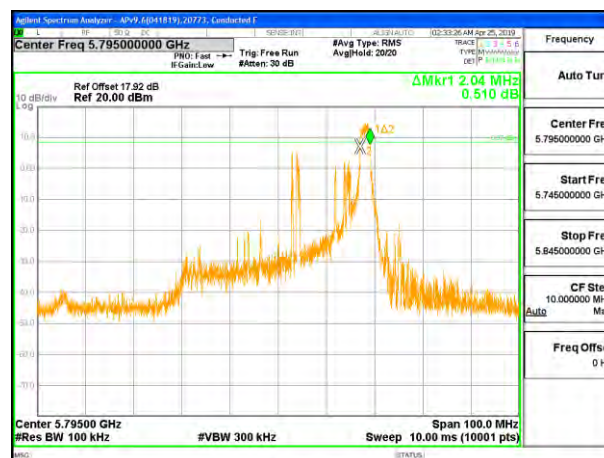


1TX Antenna 5 MODE – 26 Tones, RU Index 17

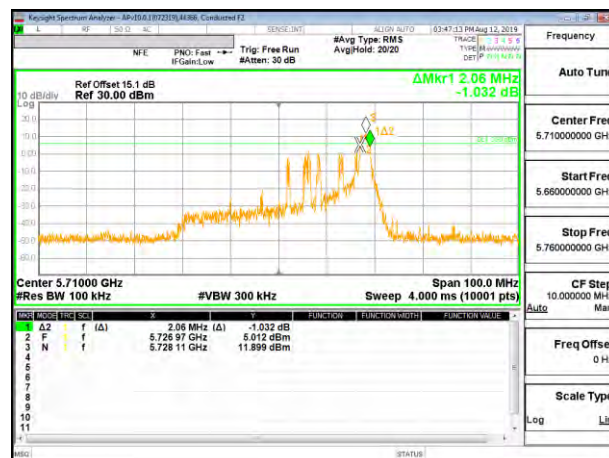
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	1.990	0.5
High	5795	2.040	0.5
142	5710	2.060	0.5



LOW CHANNEL



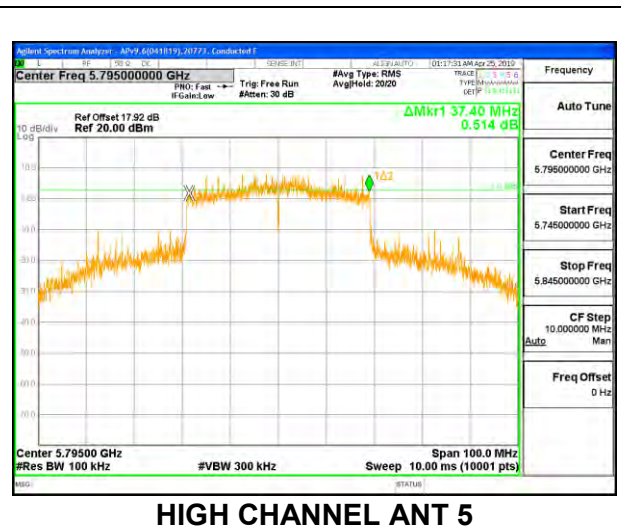
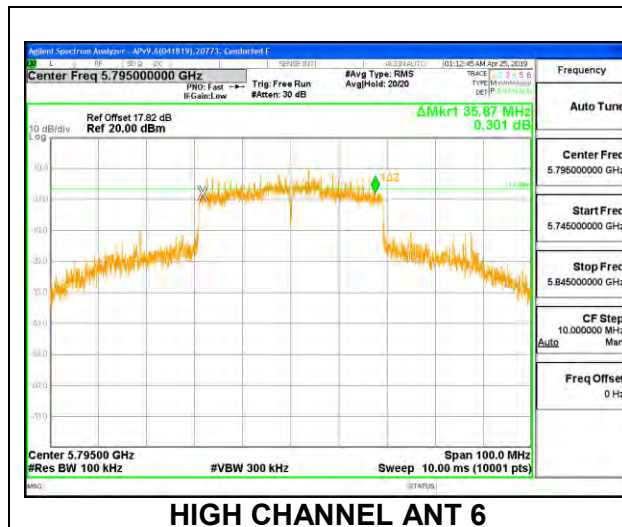
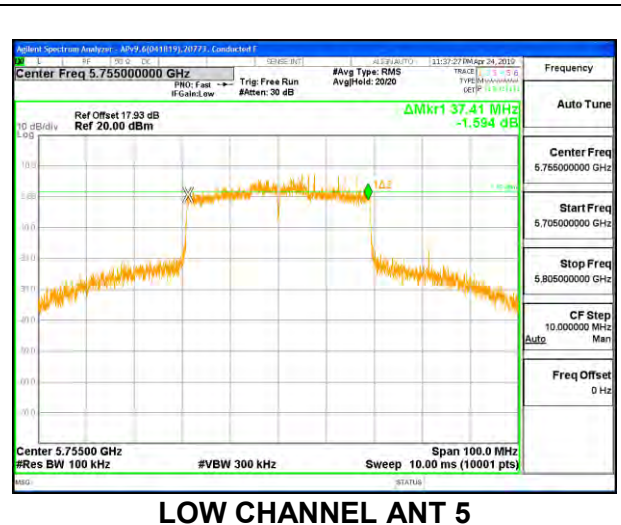
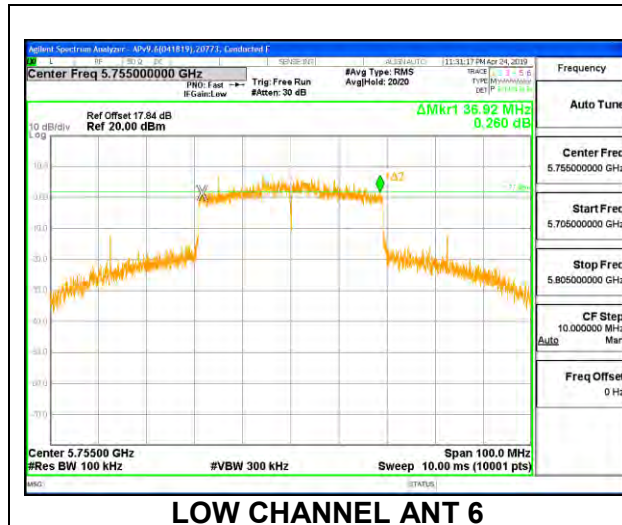
HIGH CHANNEL

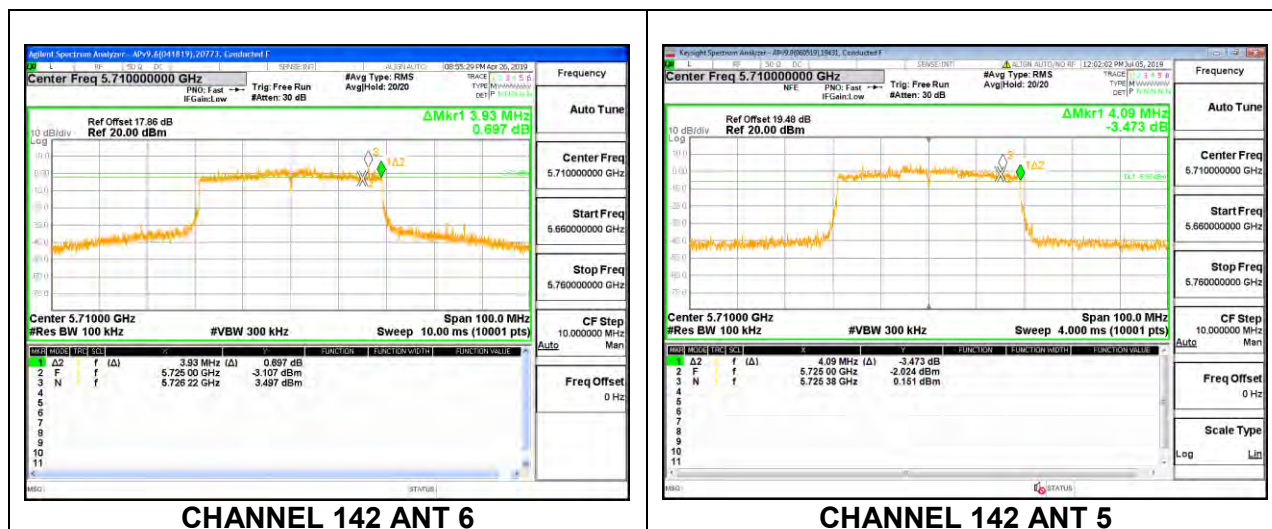


CHANNEL 142

2TX Antenna 6 + Antenna 5 OFDMA MODE – 484 Tones, RU Index 65

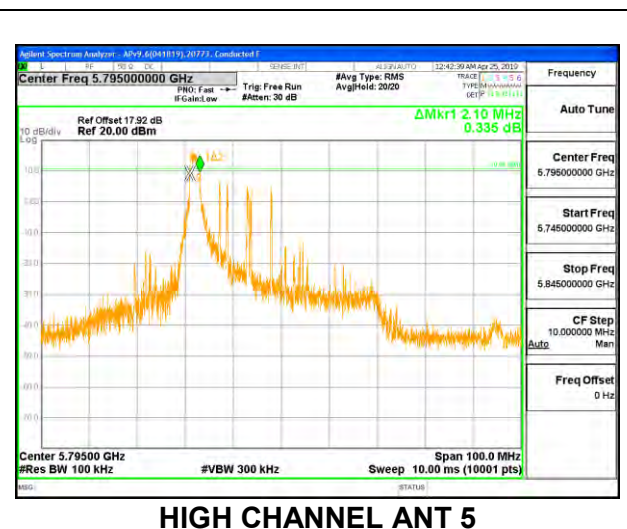
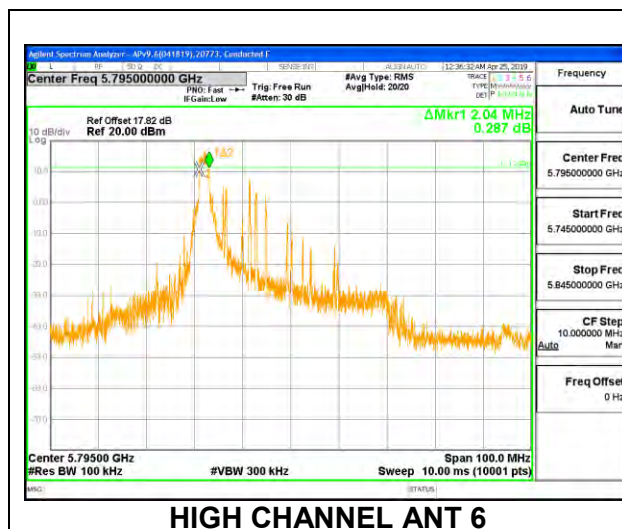
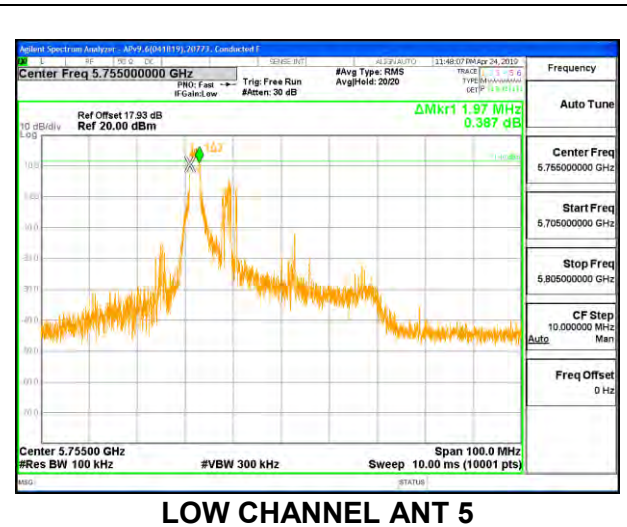
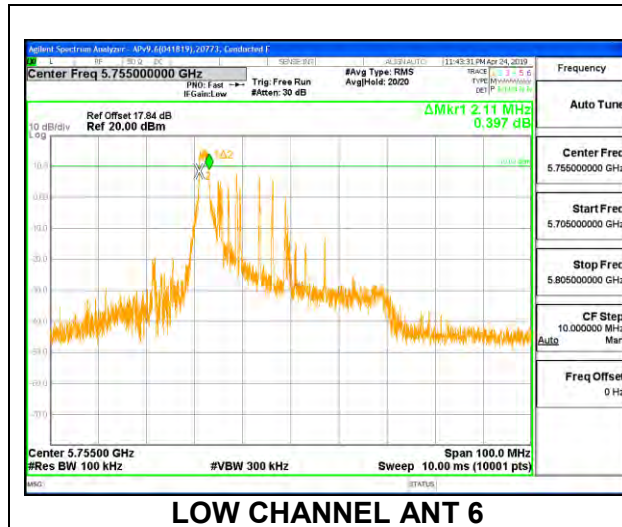
Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5755	36.920	37.410	0.5
High	5795	35.870	37.400	0.5





2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.110	1.970	0.5
High	5795	2.040	2.100	0.5

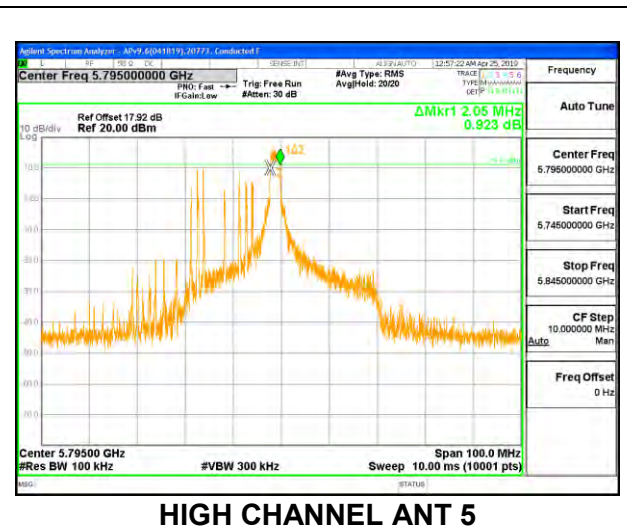
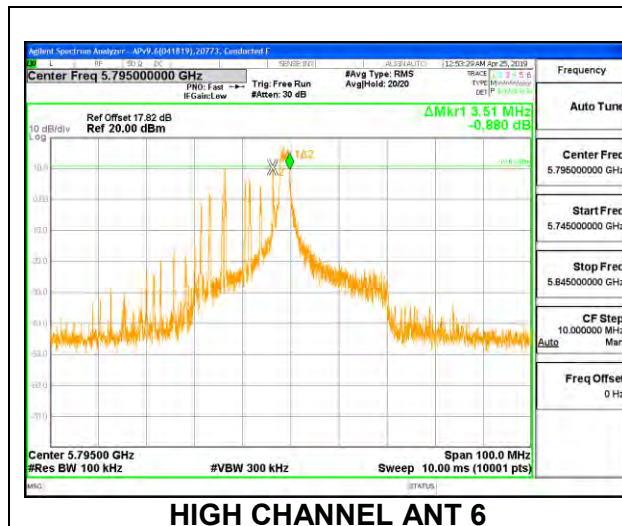
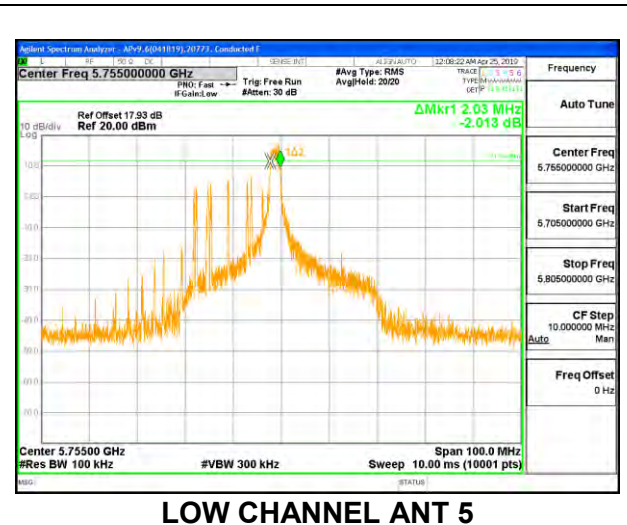
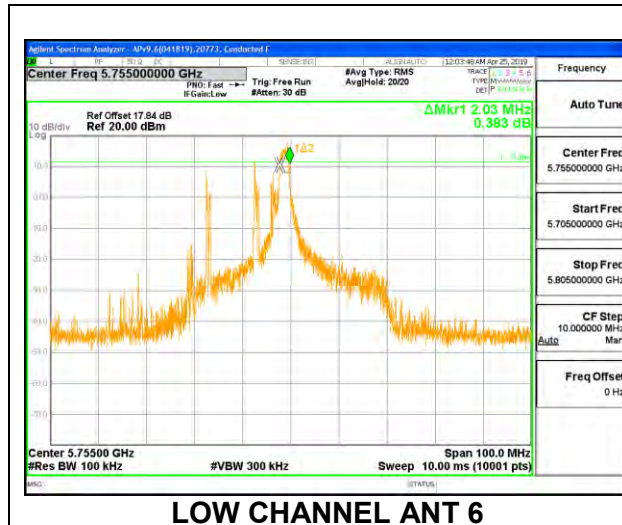


See note on section 8.4
CHANNEL 142 ANT 6

See note on section 8.4
CHANNEL 142 ANT 5

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 8

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.030	2.030	0.5
High	5795	3.510	2.050	0.5



See note on section 8.4

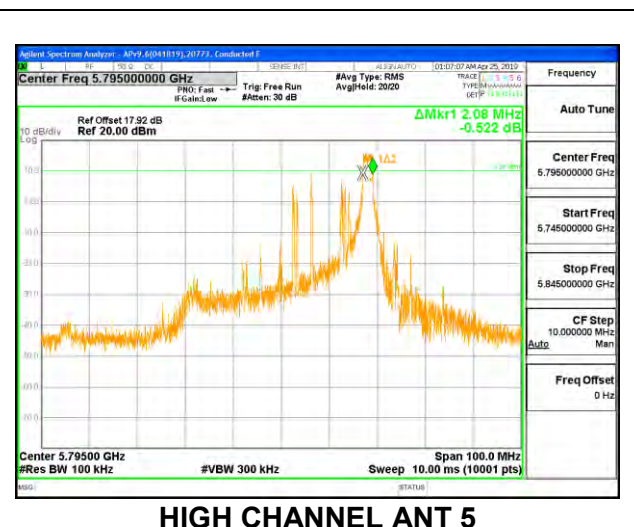
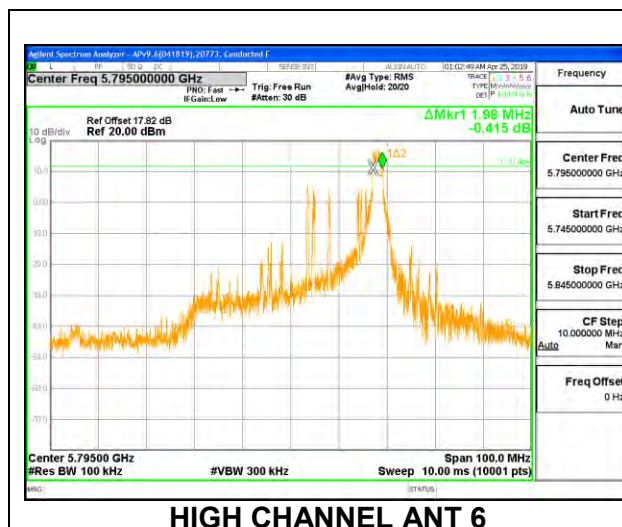
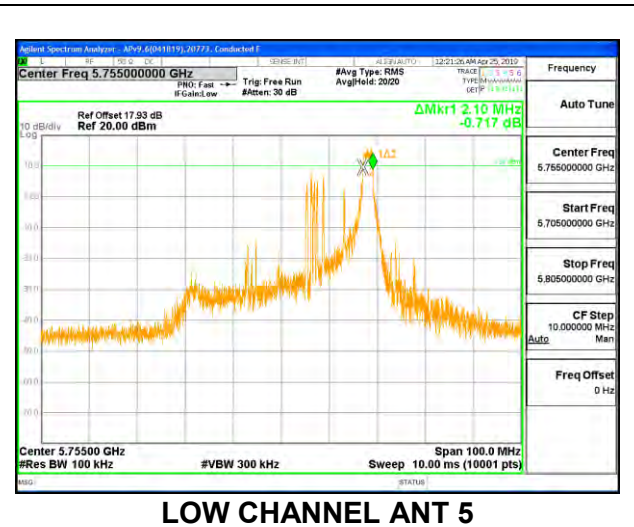
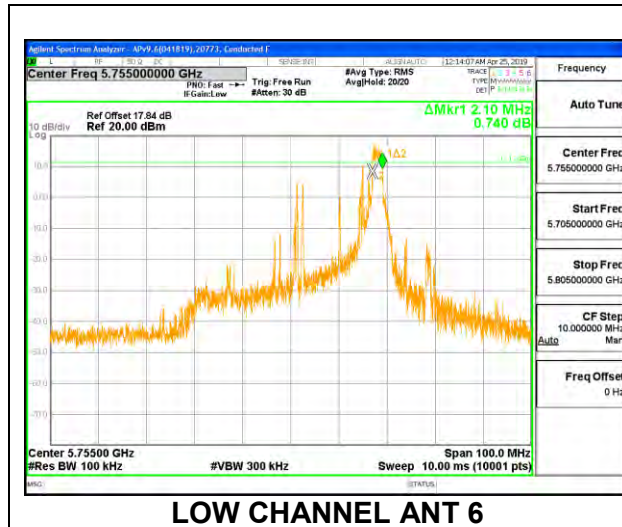
CHANNEL 142 ANT 6

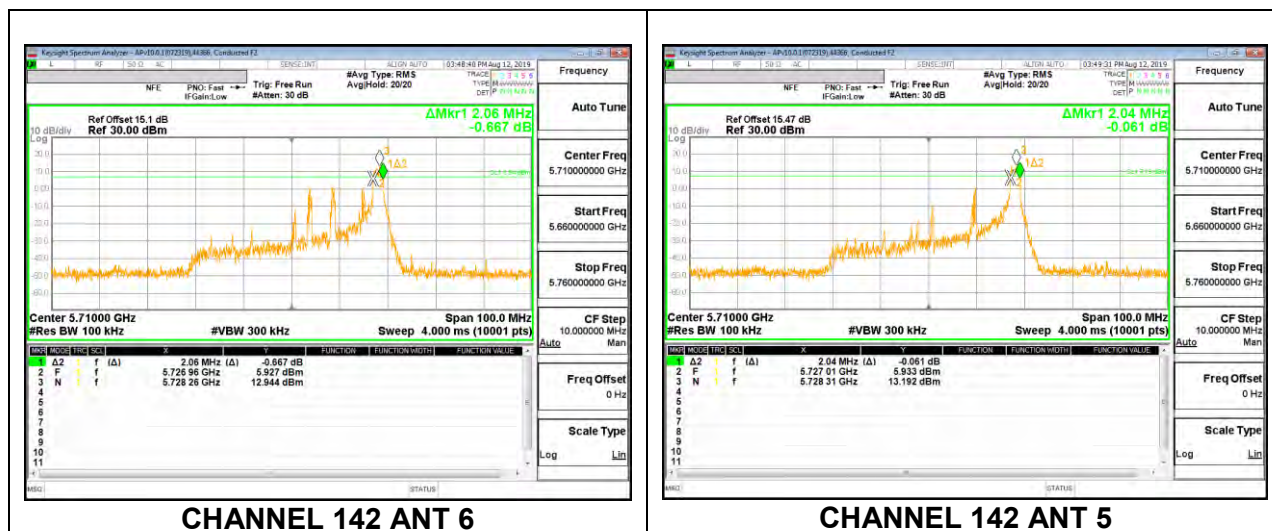
See note on section 8.4

CHANNEL 142 ANT 5

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 17

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.100	2.100	0.5
High	5795	1.980	2.080	0.5
142	5710	2.060	2.040	0.5





8.4.6. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

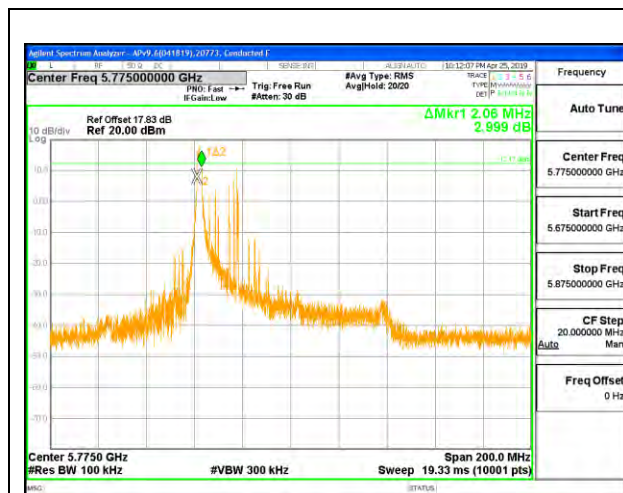
1TX Antenna 6 MODE – 996 Tones, RU Index 67

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	74.740	0.5
138	5690	3.960	0.5



1TX Antenna 6 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.060	0.5

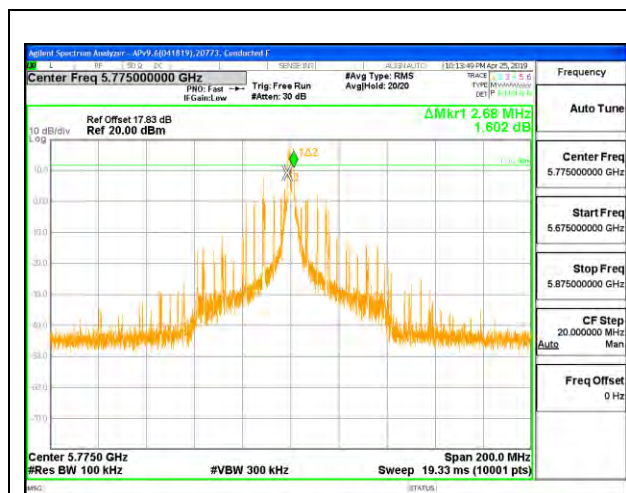


See note on section 8.4

CHANNEL 138

1TX Antenna 6 MODE – 26 Tones, RU Index 18

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.680	0.5



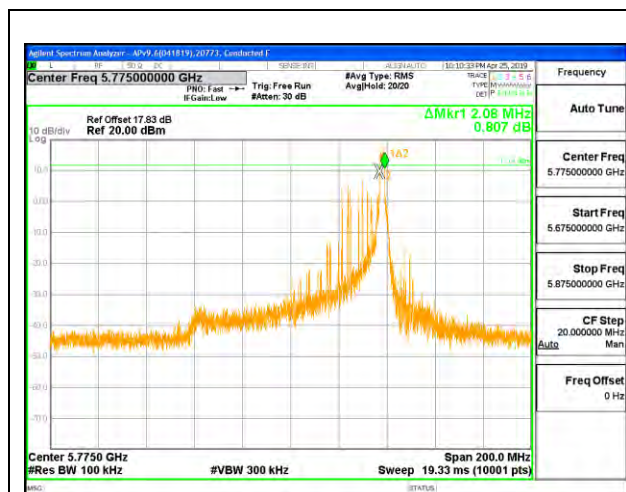
MID CHANNEL

See note on section 8.4

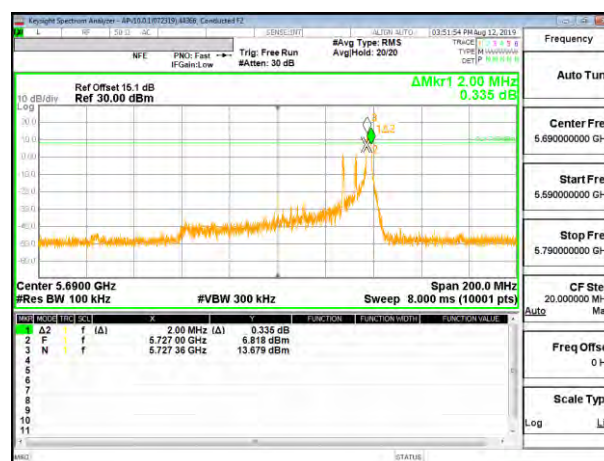
CHANNEL 138

1TX Antenna 6 MODE – 26 Tones, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.080	0.5
138	5690	2.000	0.5



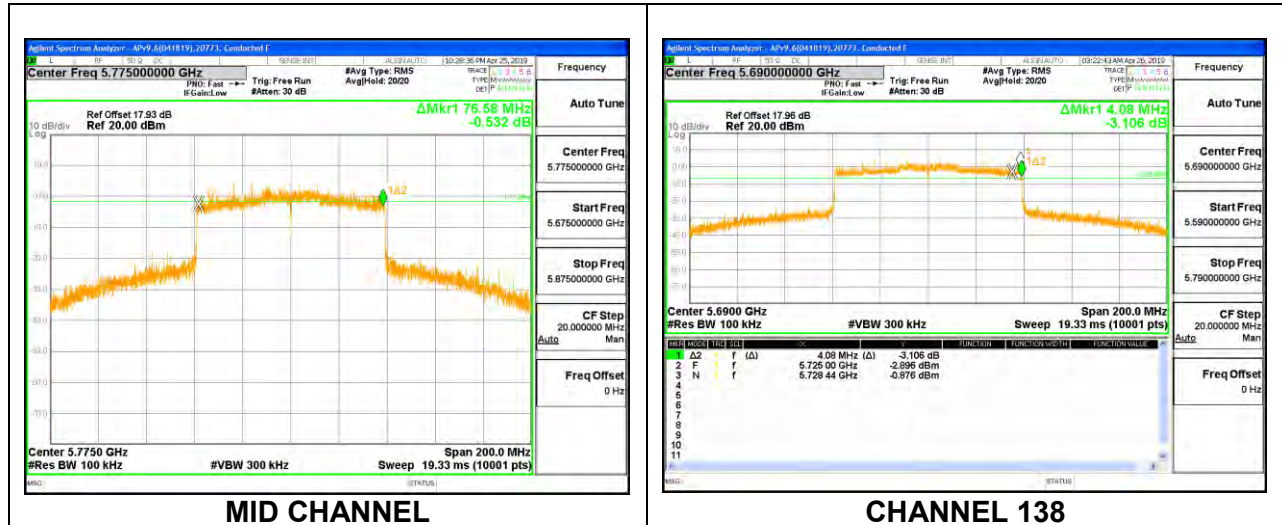
MID CHANNEL



CHANNEL 138

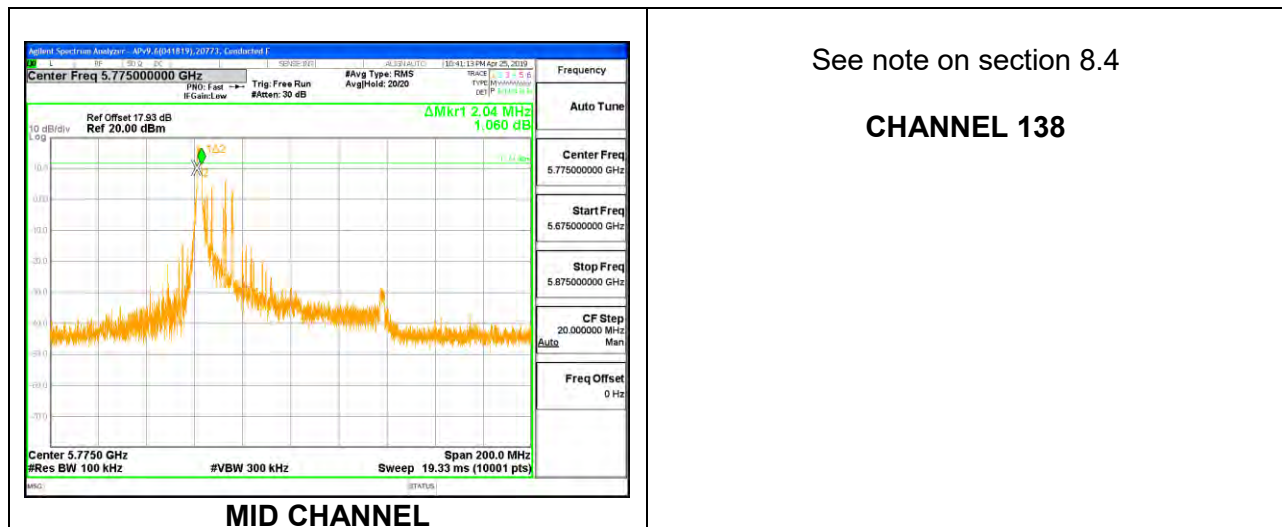
1TX Antenna 5 MODE – 996 Tones, RU Index 67

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	76.580	0.5
138	5690	4.080	0.5



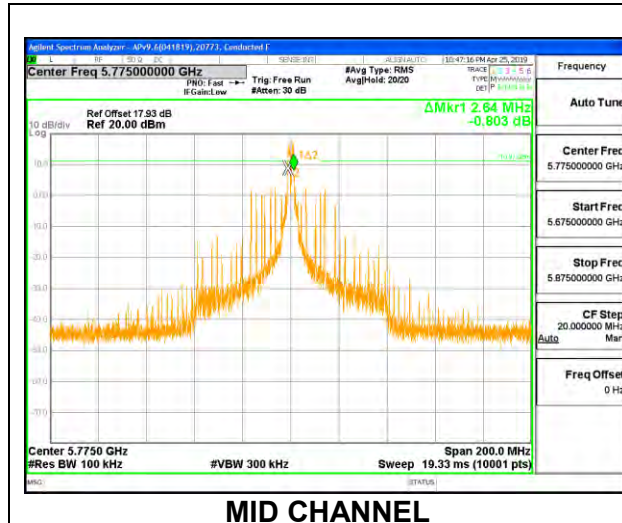
1TX Antenna 5 MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.040	0.5



1TX Antenna 5 MODE – 26 Tones, RU Index 18

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.640	0.5

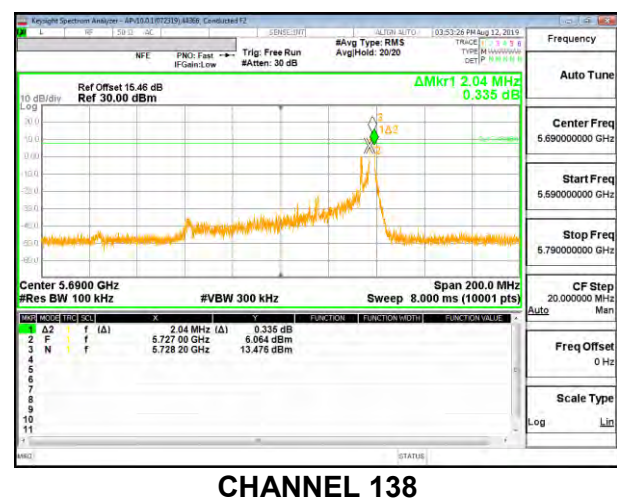
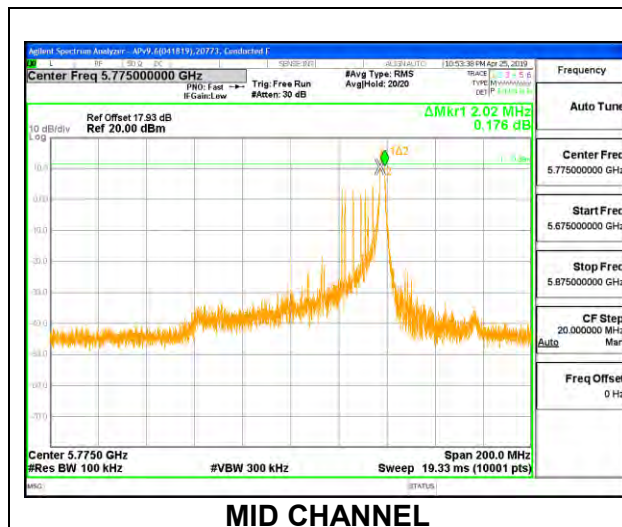


See note on section 8.4

CHANNEL 138

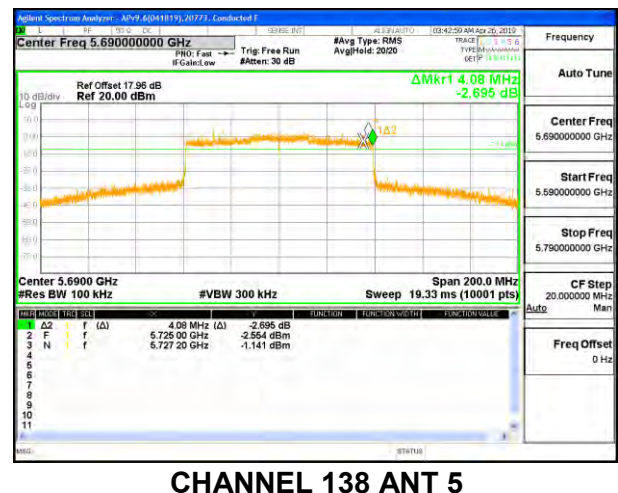
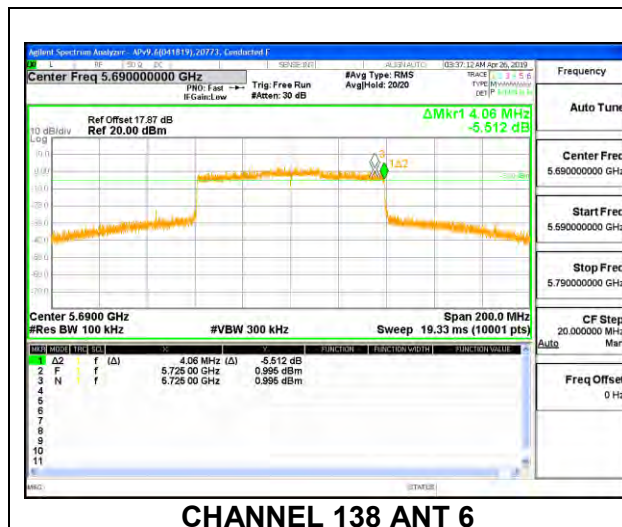
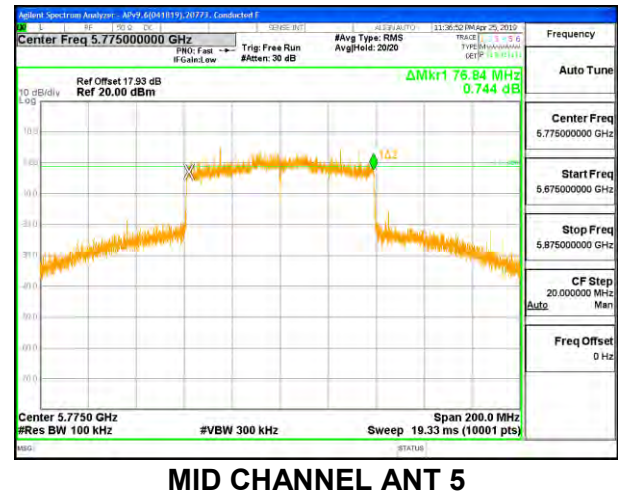
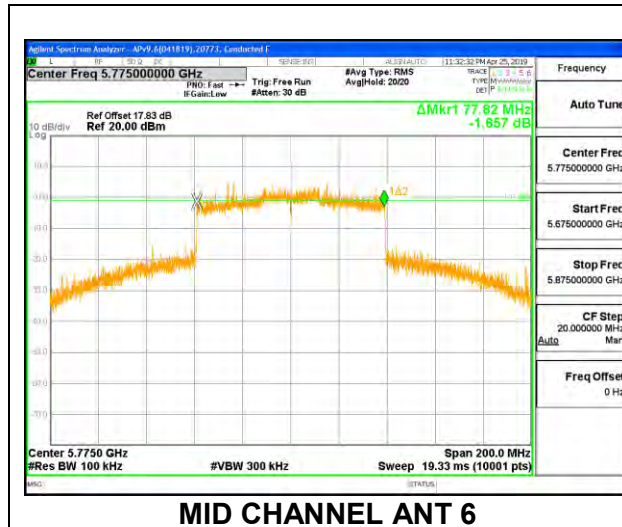
1TX Antenna 5 MODE – 26 Tones, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.020	0.5
138	5690	2.040	0.5



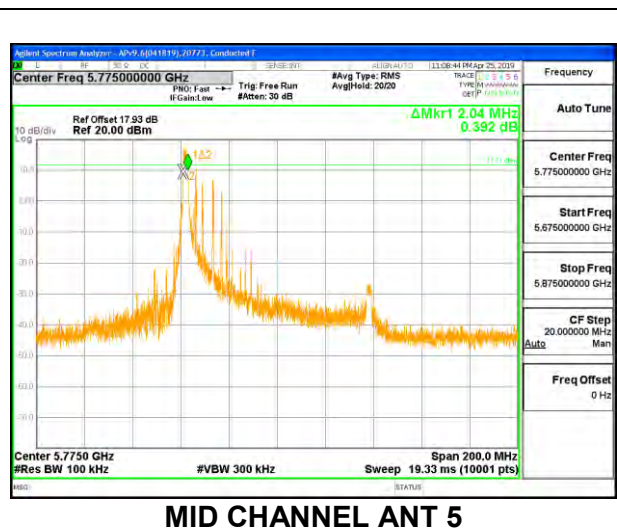
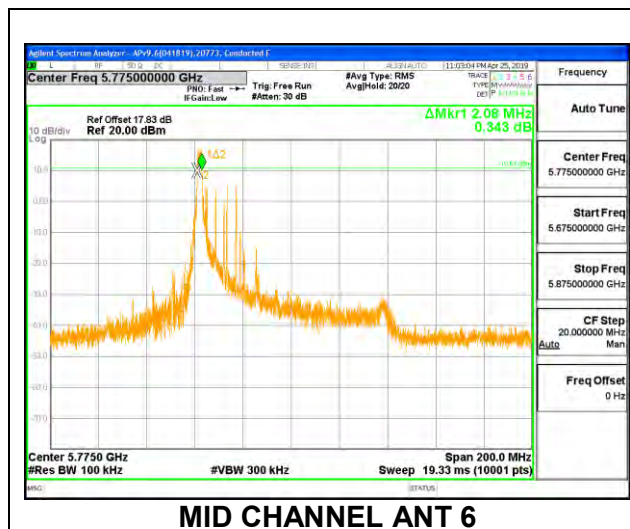
2TX Antenna 6 + Antenna 5 OFDMA MODE – 996 Tones, RU Index 67

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Mid	5775	77.820	76.840	0.5
138	5690	4.060	4.080	0.5



2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.080	2.040	0.5



See note on section 8.4

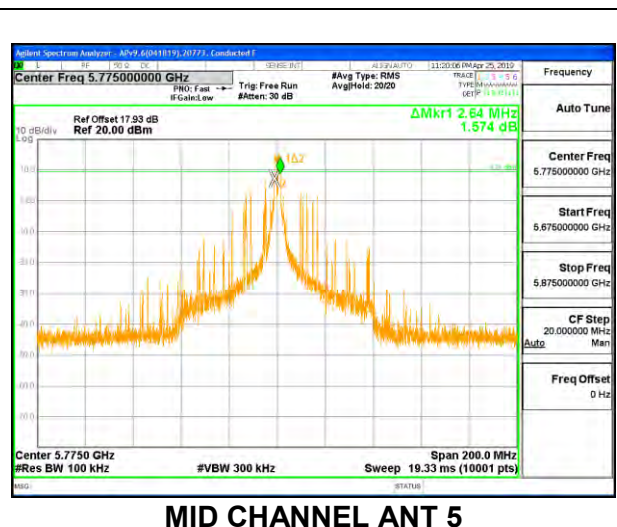
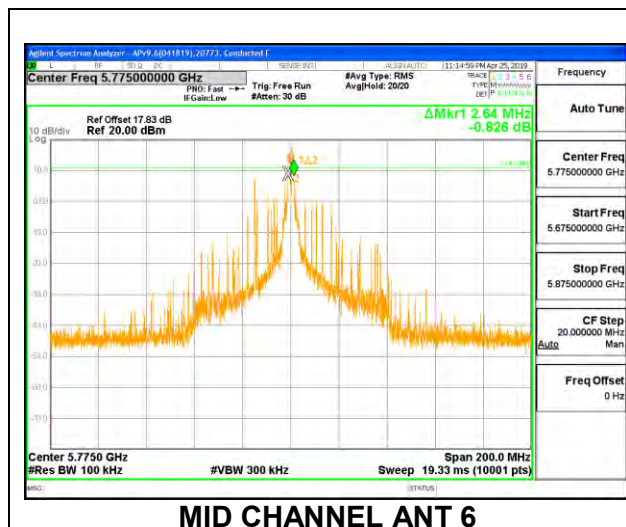
CHANNEL 138 ANT 6

See note on section 8.4

CHANNEL 138 ANT 5

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 18

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.640	2.640	0.5



See note on section 8.4

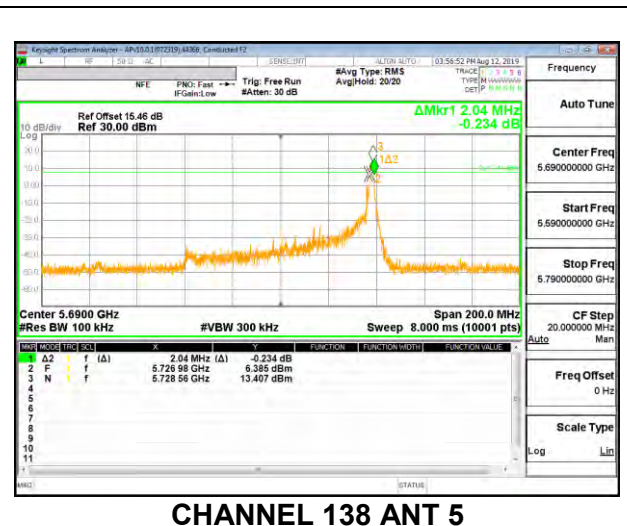
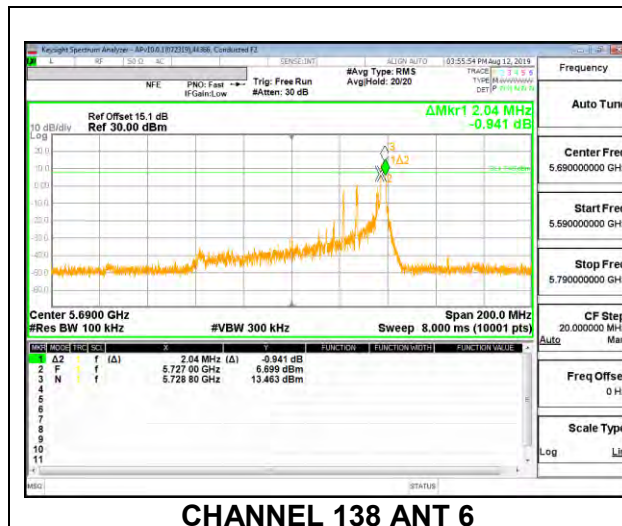
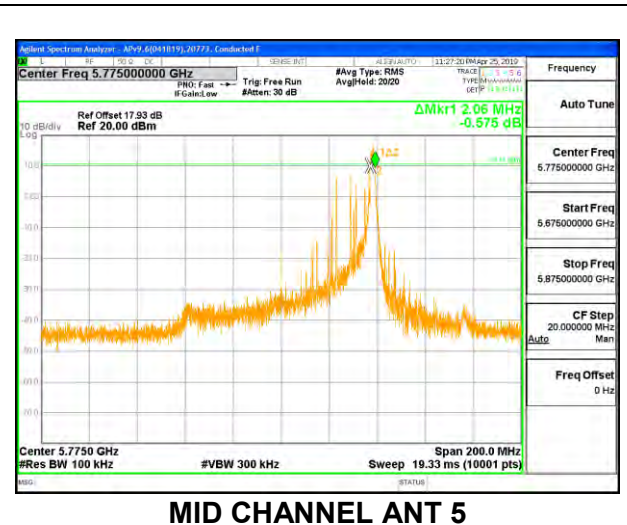
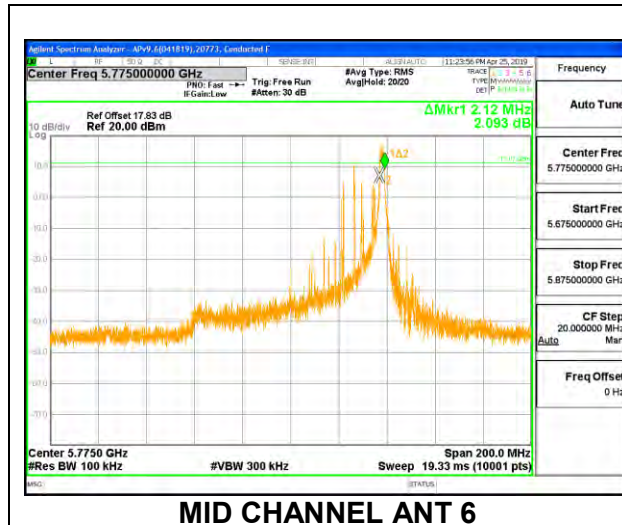
CHANNEL 138 ANT 6

See note on section 8.4

CHANNEL 138 ANT 5

2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 36

Channel	Frequency (MHz)	6 dB BW ANT 6 (MHz)	6 dB BW ANT 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.120	2.060	0.5
138	5690	2.040	2.040	0.5



8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz (pick the section that applies to your product)

(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 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) and for straddles channels KDB 789033 D02 v02r01, Section E.2.d (Method SA-1) was used.

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

11n HT20 and 11ax HE20 straddle channel 26dB bandwidth = (26dB 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)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	-4.2	-10.7	-6.33	-3.85
5.3	-4.0	-9.7	-5.98	-3.38
5.6	-1.6	-5.9	-3.24	-0.48
5.8	-2.3	-6.2	-3.83	-1.02

RESULTS

8.5.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND (FCC)

1TX Antenna 6 MODE (FCC) MOBILE

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)
Low	5180	21.95	-4.2
Mid	5200	22.15	-4.2
High	5240	21.95	-4.2

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	23.00	27.20	24.00	11.00	11.00
Mid	5200	24.00	23.00	27.20	24.00	11.00	11.00
High	5240	24.00	23.00	27.20	24.00	11.00	11.00

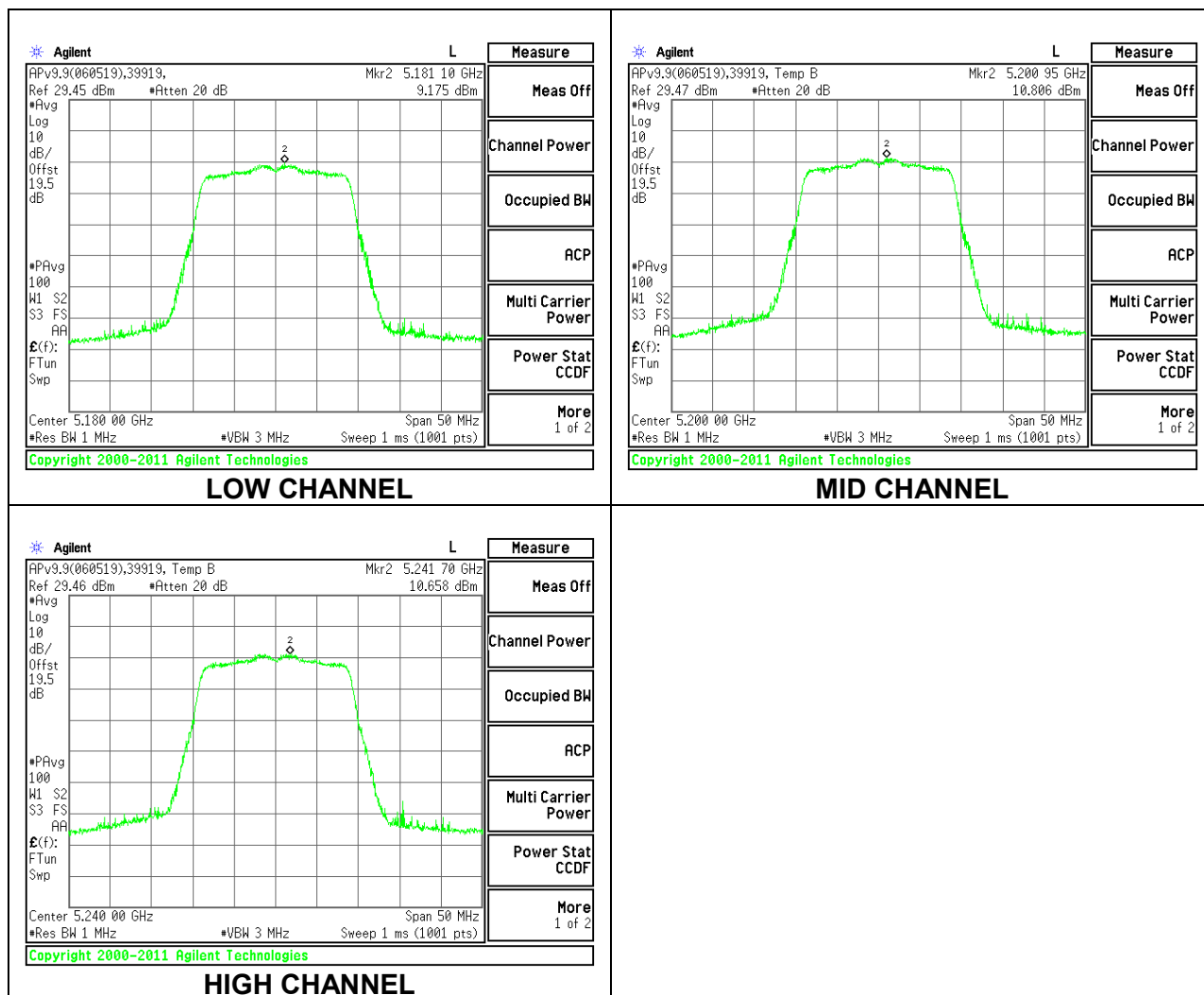
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.84	18.84	24.00	-5.16
Mid	5200	20.91	20.91	24.00	-3.09
High	5240	20.88	20.88	24.00	-3.12

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.175	9.18	11.00	-1.83
Mid	5200	10.806	10.81	11.00	-0.19
High	5240	10.658	10.66	11.00	-0.34



1TX Antenna 5 MODE (FCC) MOBILE

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)
Low	5180	22.25	-10.7
Mid	5200	22.35	-10.7
High	5240	22.15	-10.7

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	23.00	33.70	24.00	11.00	11.00
Mid	5200	24.00	23.00	33.70	24.00	11.00	11.00
High	5240	24.00	23.00	33.70	24.00	11.00	11.00

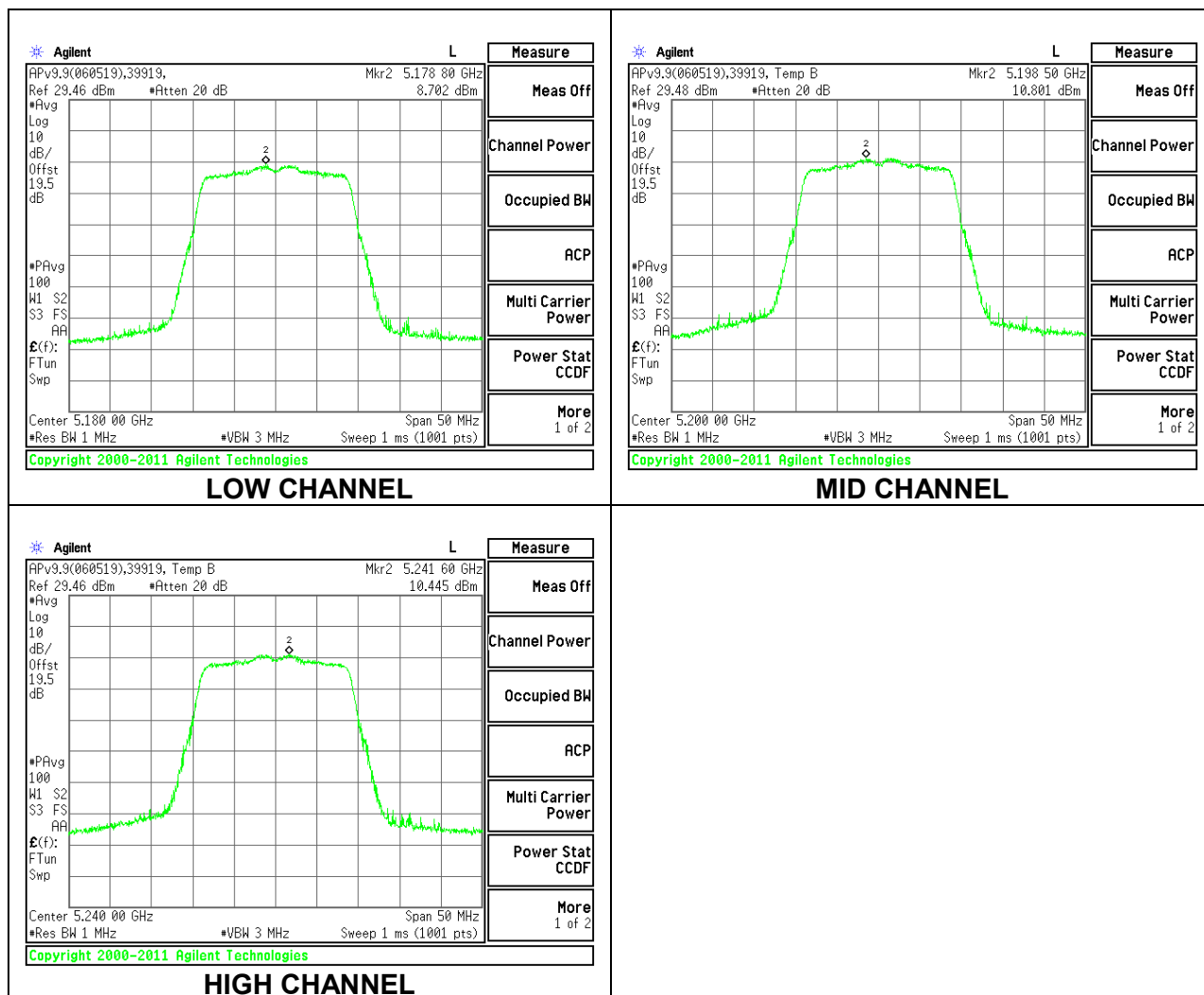
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.89	18.89	24.00	-5.11
Mid	5200	20.94	20.94	24.00	-3.06
High	5240	20.92	20.92	24.00	-3.08

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	8.702	8.70	11.00	-2.30
Mid	5200	10.801	10.80	11.00	-0.20
High	5240	10.445	10.45	11.00	-0.55



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

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	21.70	-6.33	-3.85
Mid	5200	21.65	-6.33	-3.85
High	5240	21.70	-6.33	-3.85

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	23.00	29.33	24.00	11.00	11.00
Mid	5200	24.00	23.00	29.33	24.00	11.00	11.00
High	5240	24.00	23.00	29.33	24.00	11.00	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	17.88	17.73	20.82	24.00	-3.18
Mid	5200	17.90	17.92	20.92	24.00	-3.08
High	5240	17.68	17.87	20.79	24.00	-3.21

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	7.799	7.653	10.74	11.00	-0.26
Mid	5200	7.827	7.885	10.87	11.00	-0.13
High	5240	7.553	7.758	10.67	11.00	-0.33