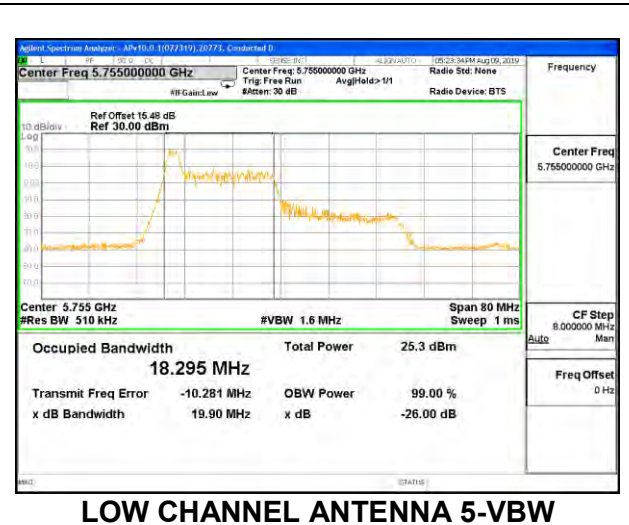
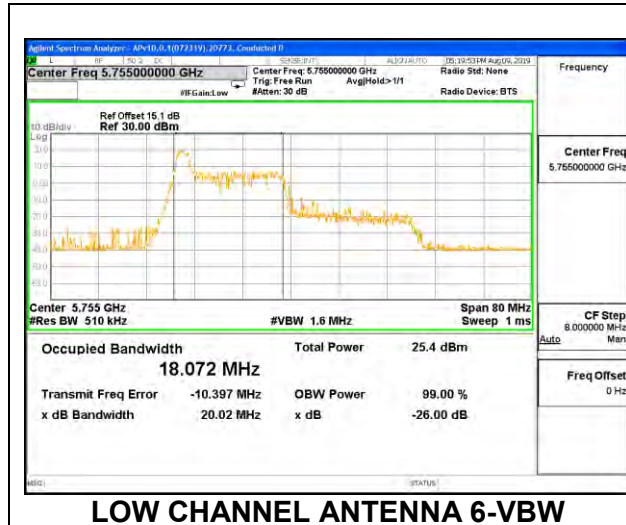


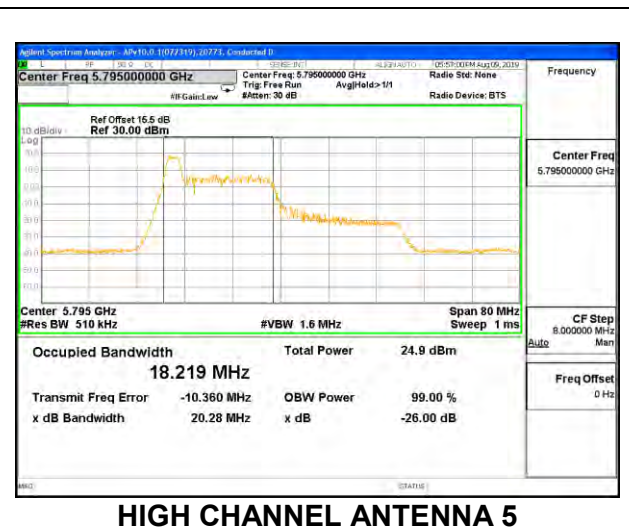
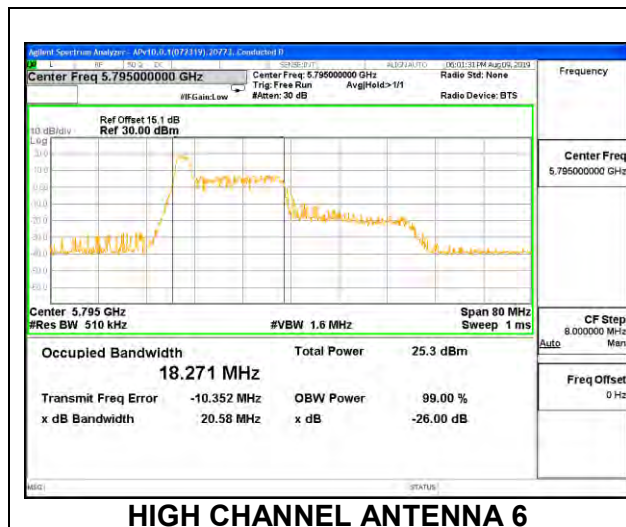
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	18.0720	18.2950
High	5795	18.2710	18.2190

LOW CHANNEL



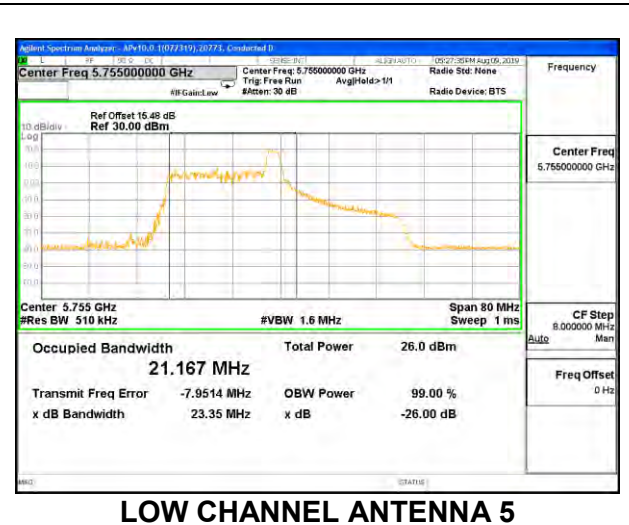
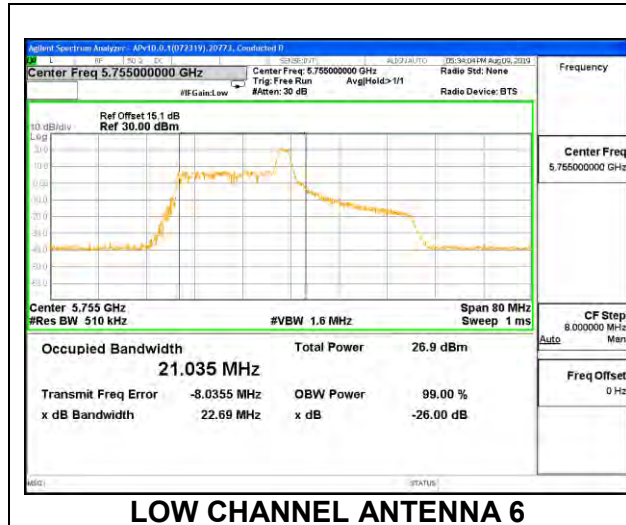
HIGH CHANNEL



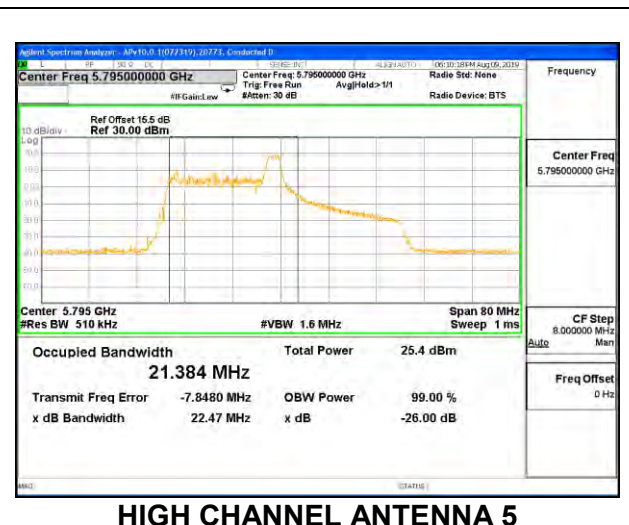
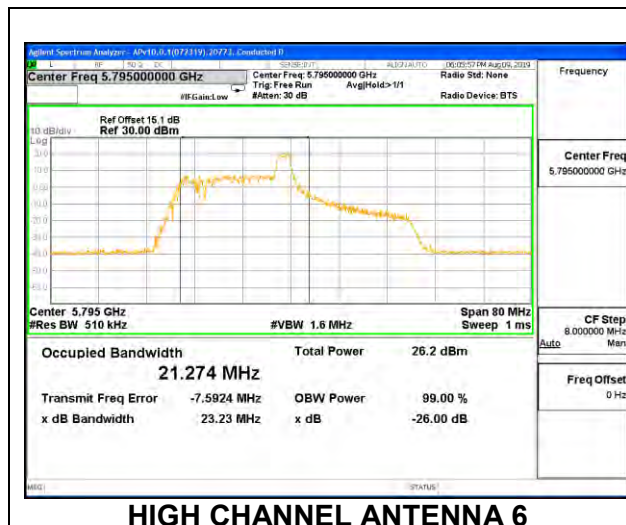
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 8

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	21.0350	21.1670
High	5795	21.2740	21.3840

LOW CHANNEL



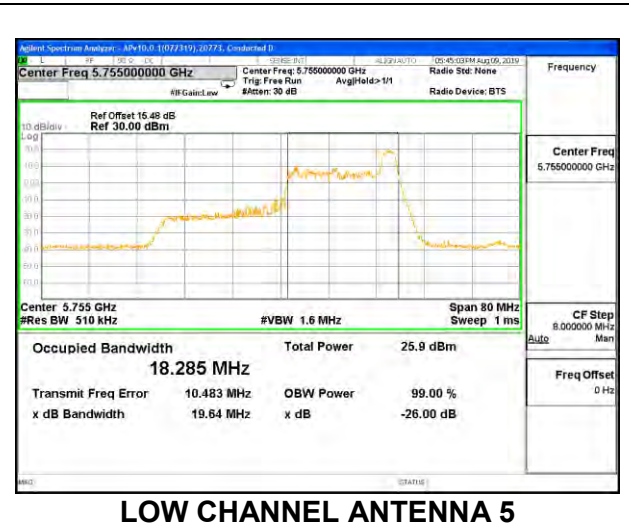
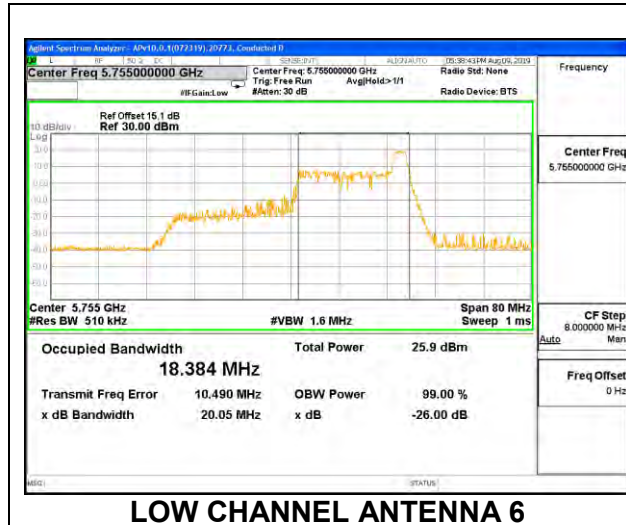
HIGH CHANNEL



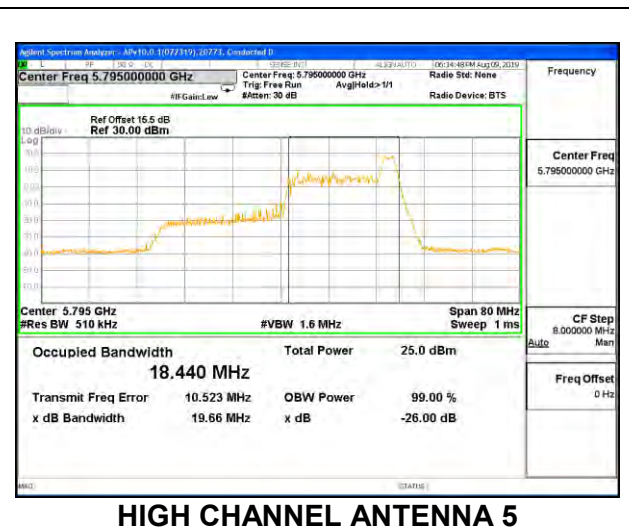
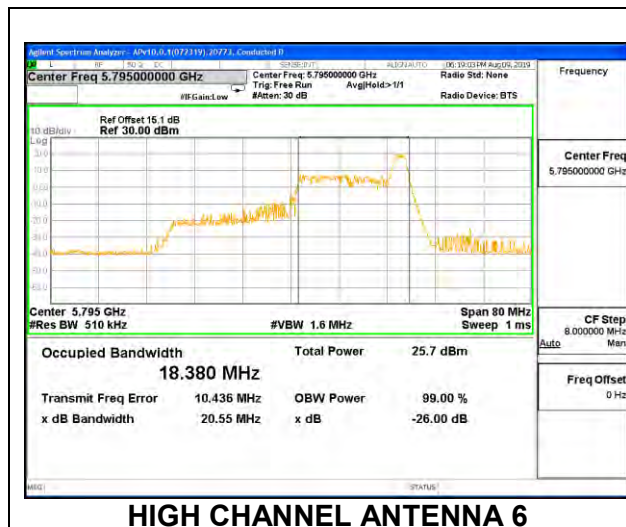
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 17

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5755	18.3840	18.2850
High	5795	18.3800	18.4400

LOW CHANNEL



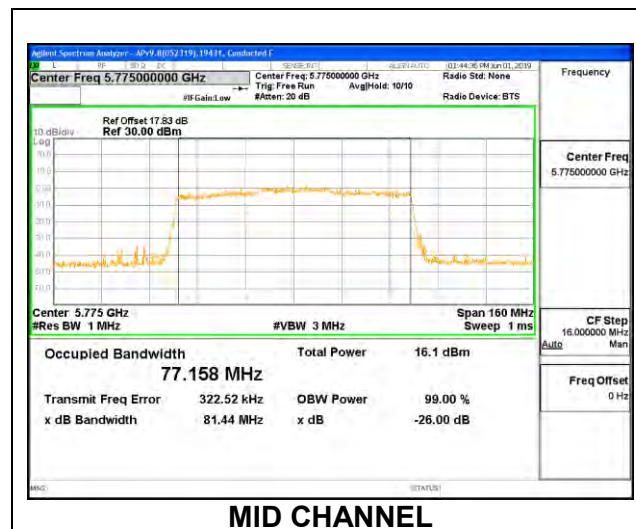
HIGH CHANNEL



8.3.24. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

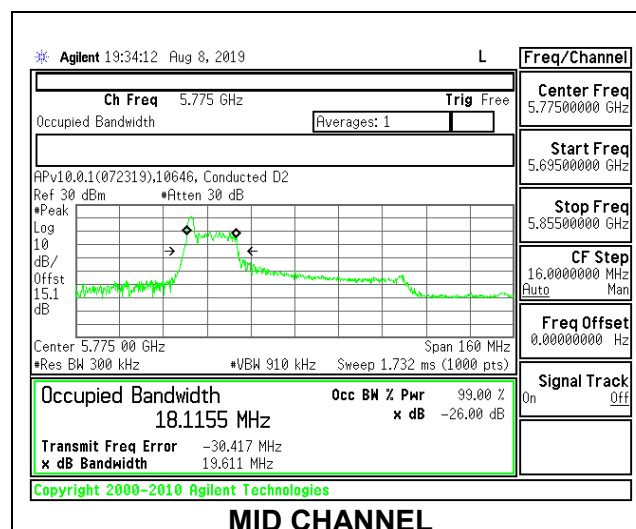
1TX Antenna 6 MODE – 996-Tones, RU Index 67

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	77.1580



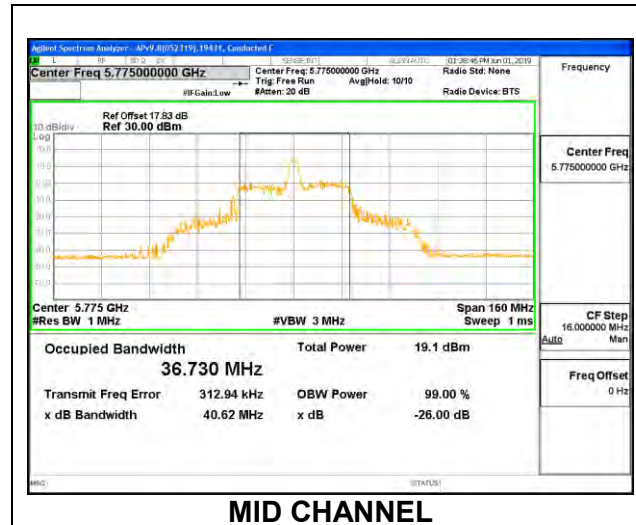
1TX Antenna 6 MODE – 26-Tones, RU Index 0

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.1155



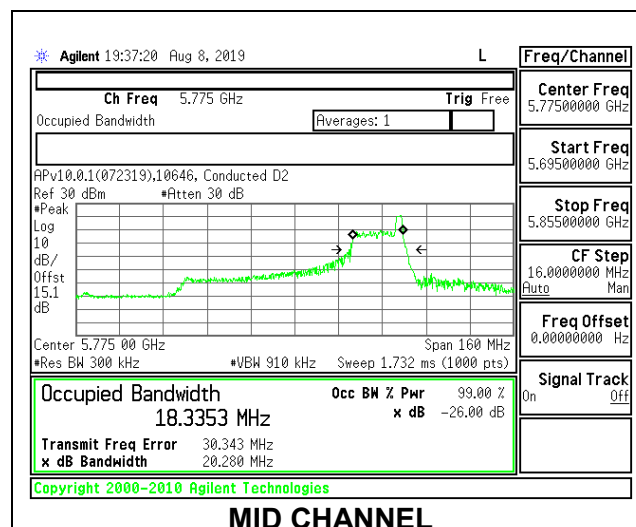
1TX Antenna 6 MODE – 26-Tones, RU Index 18

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	36.7300



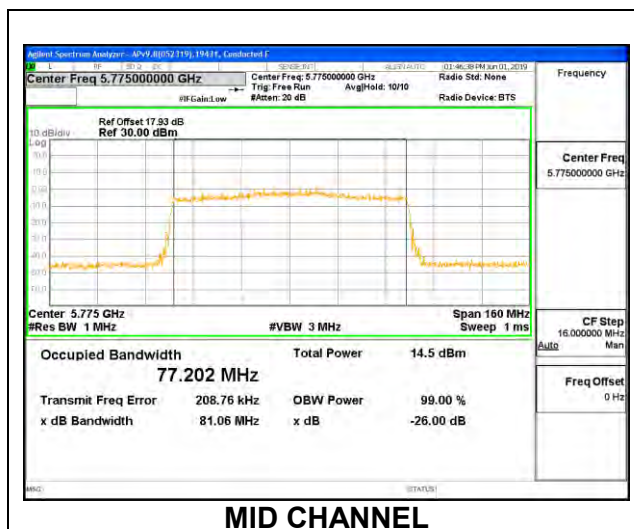
1TX Antenna 6 MODE – 26-Tones, RU Index 36

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.3353



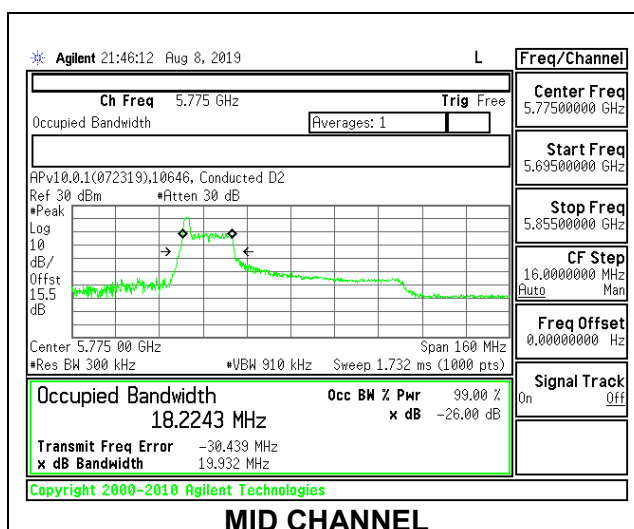
1TX Antenna 5 MODE – 996-Tones, RU Index 67

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	77.2020



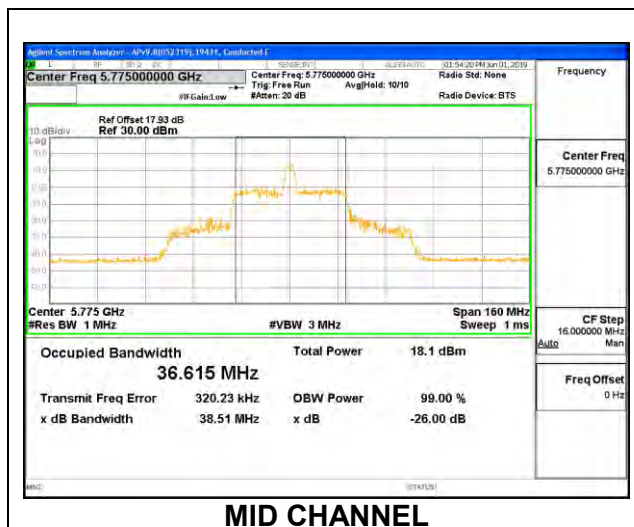
1TX Antenna 5 MODE – 26-Tones, RU Index 0

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.2243



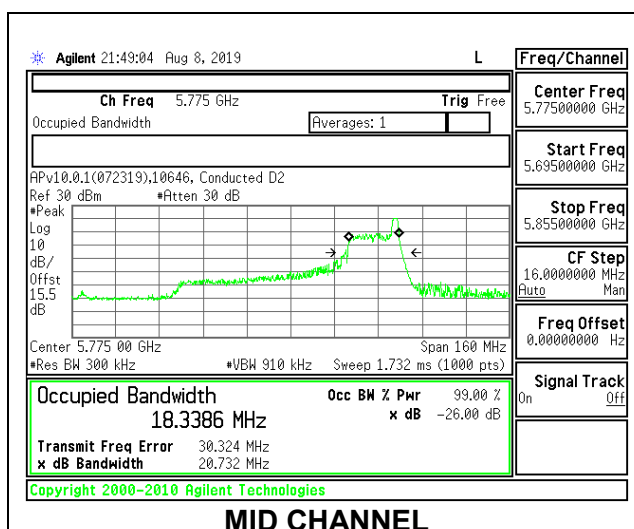
1TX Antenna 5 MODE – 26-Tones, RU Index 18

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	36.6150



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

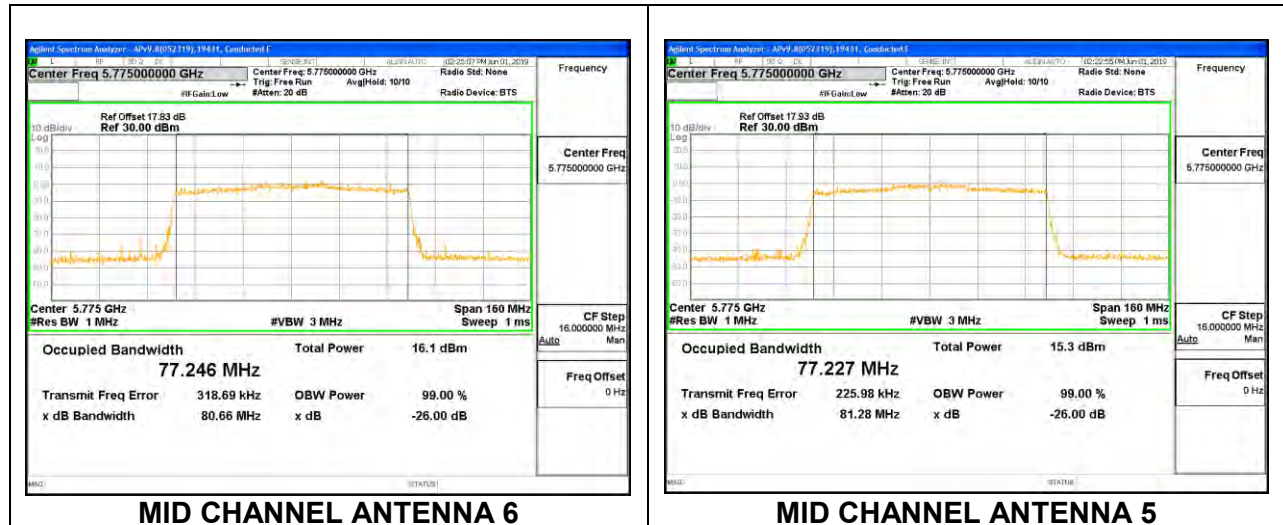
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	18.3386



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

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	77.2460	77.2270

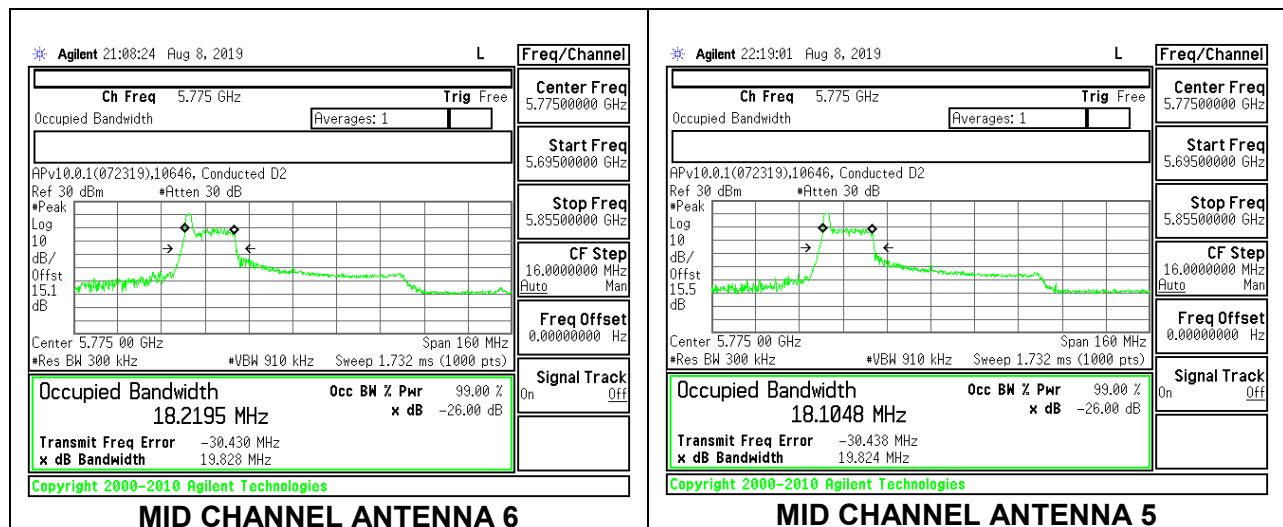
MID CHANNEL



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

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	18.2195	18.1048

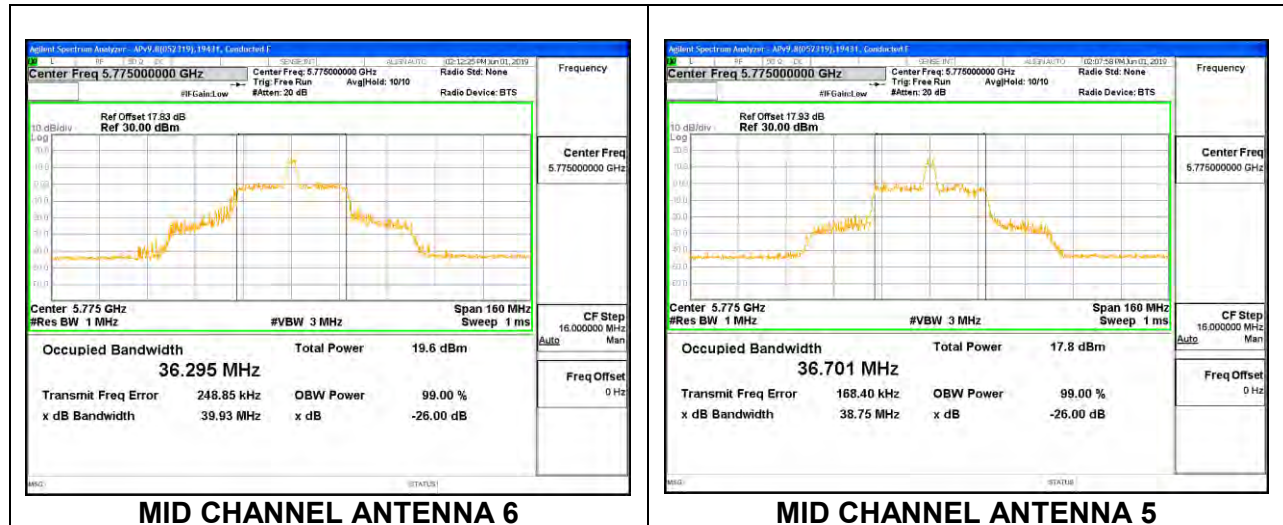
MID CHANNEL



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

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	36.2950	36.7010

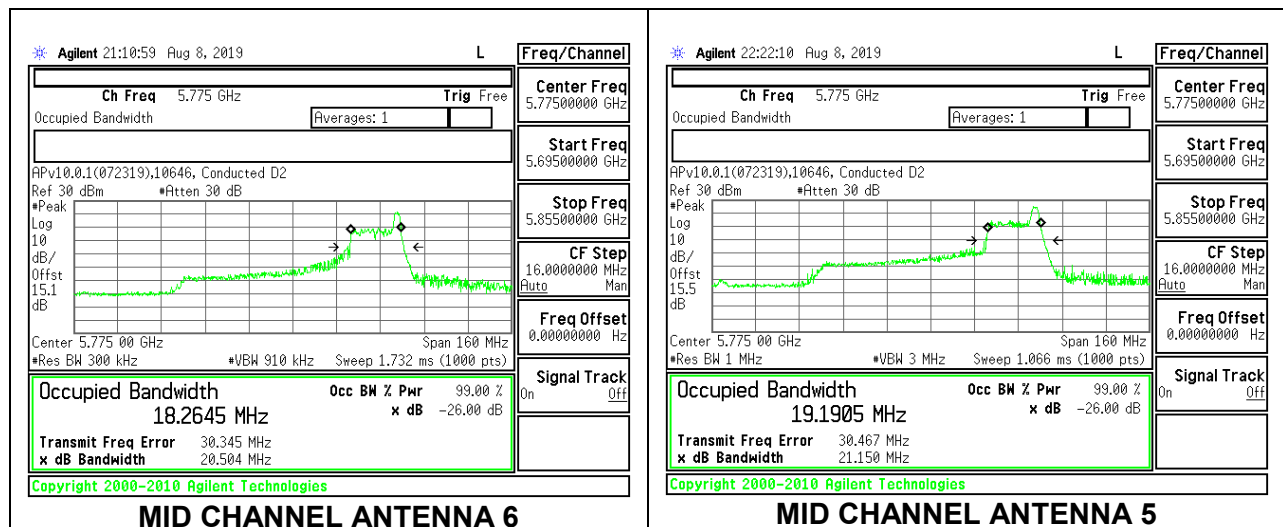
MID CHANNEL



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

Channel	Frequency (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Mid	5775	18.2645	19.1905

MID CHANNEL



8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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

RESULTS

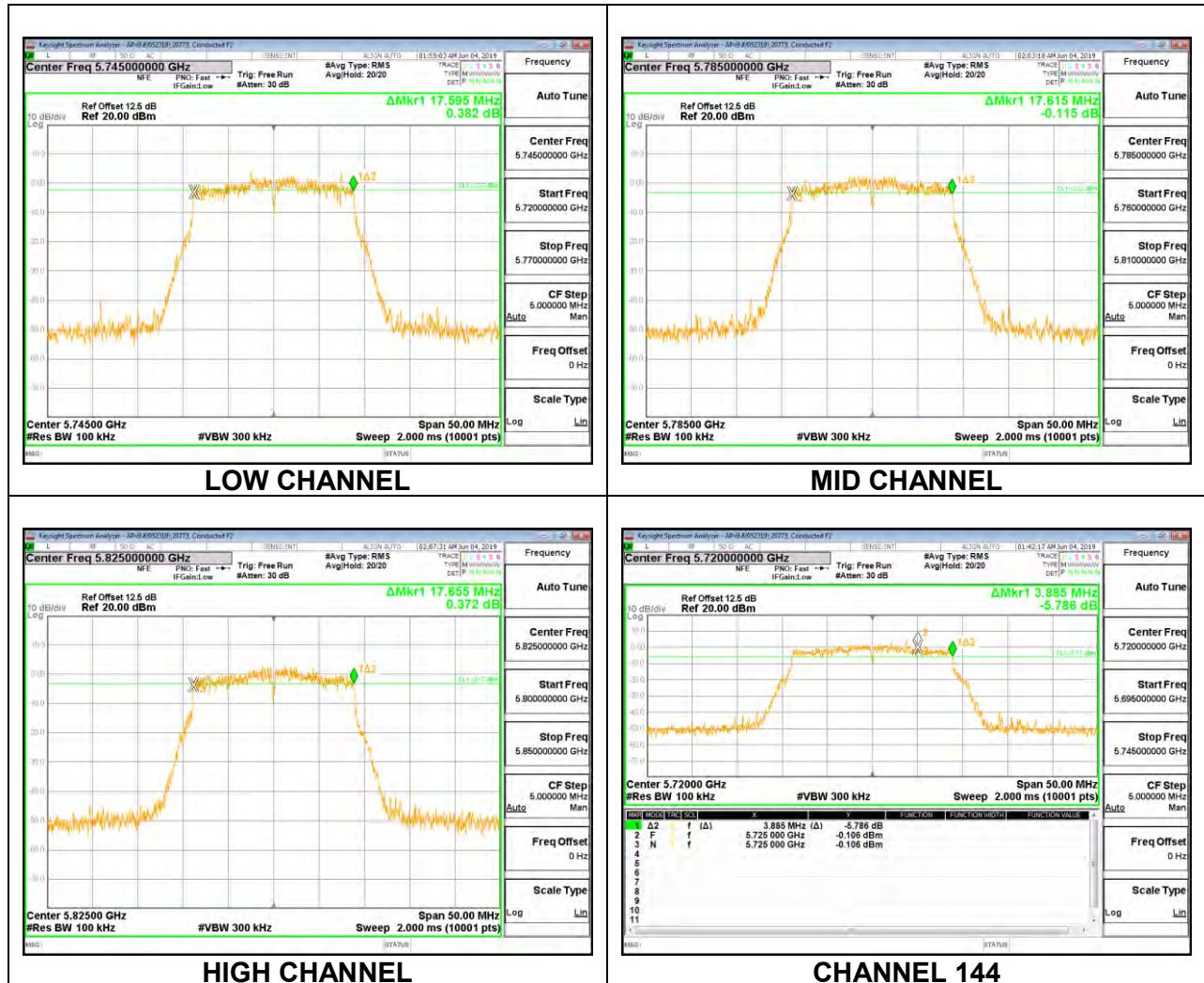
Note: No 6dB emission bandwidth after 5725MHz in following settings:

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

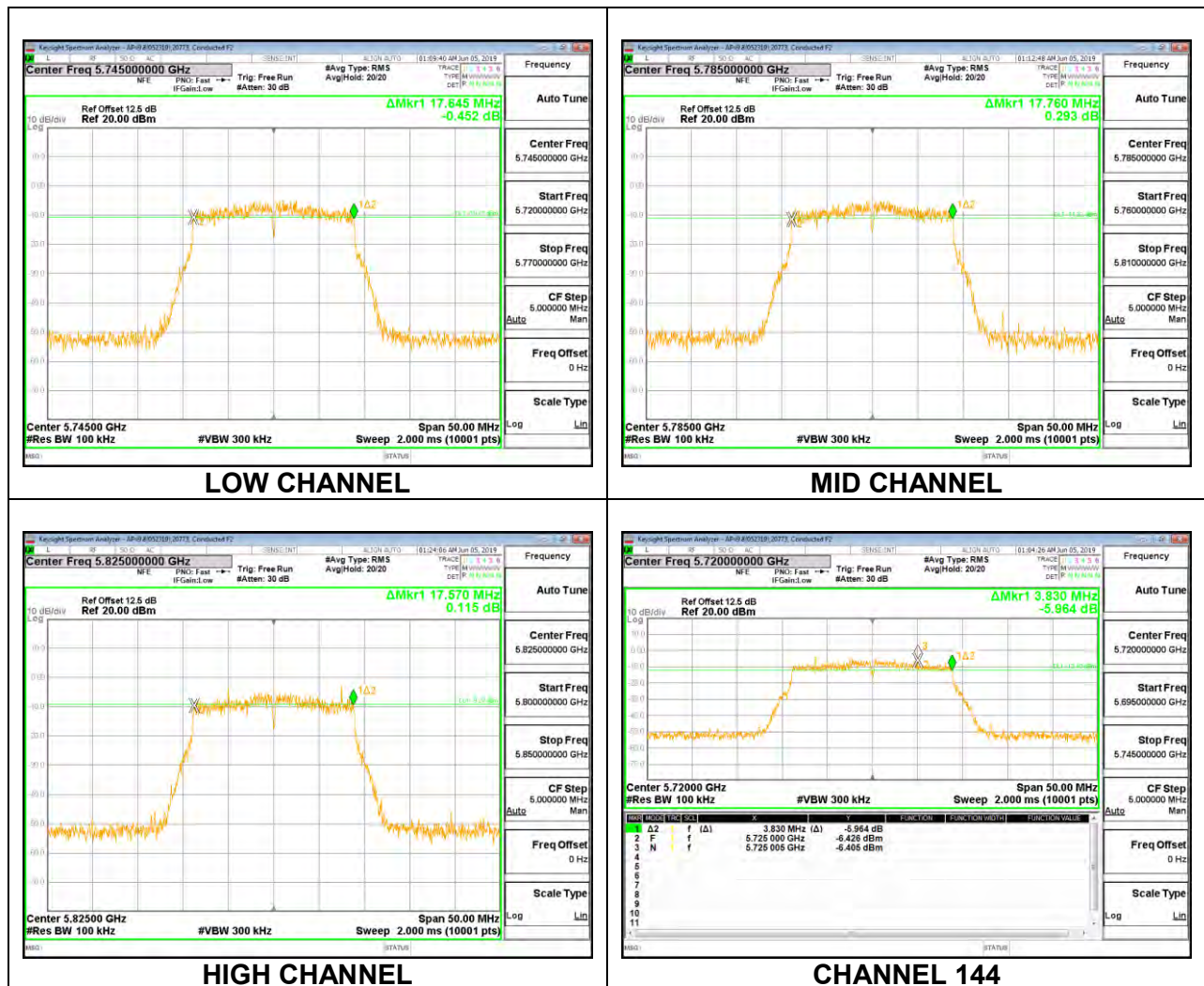
1TX Antenna 6 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	17.595	0.5
Mid	5785	17.615	0.5
High	5825	17.655	0.5
144	5720	3.885	0.5



1TX Antenna 5 MODE

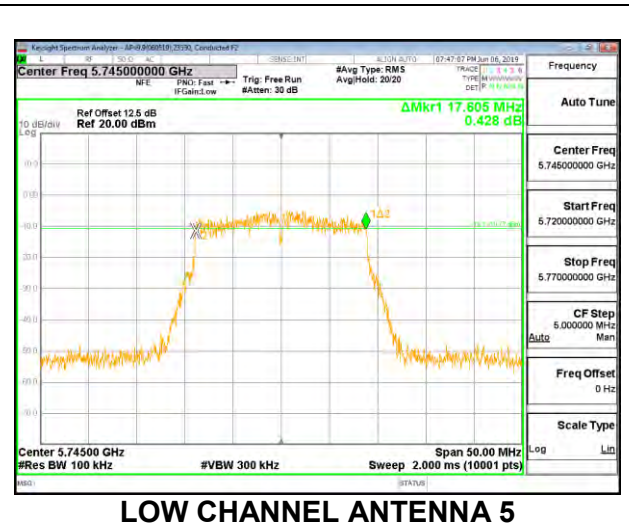
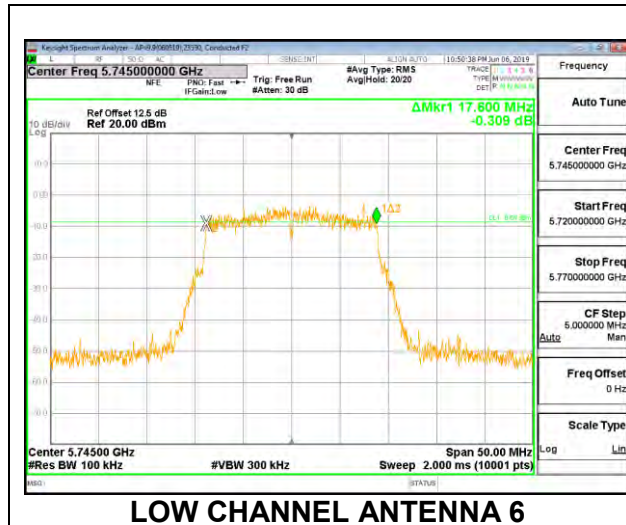
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	17.645	0.5
Mid	5785	17.760	0.5
High	5825	17.570	0.5
144	5720	3.830	0.5



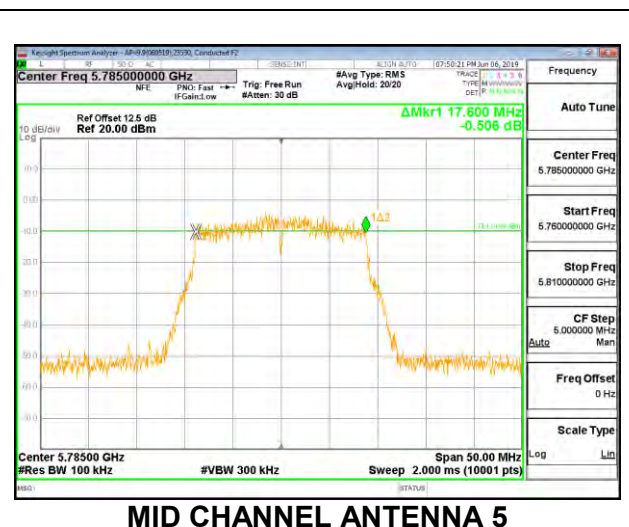
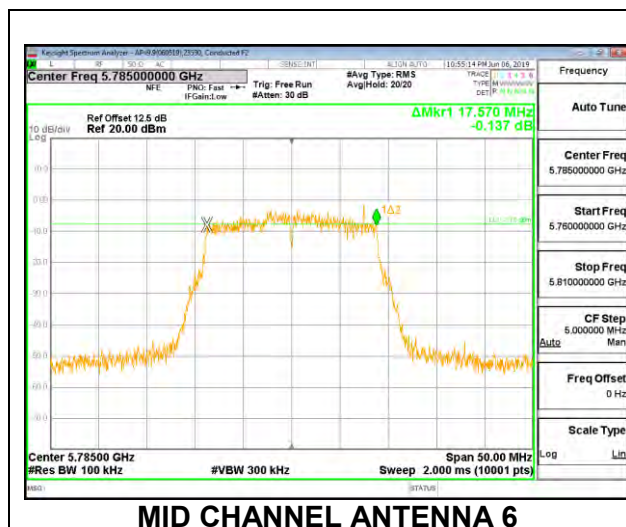
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	17.600	17.605	0.5
Mid	5785	17.570	17.600	0.5
High	5825	17.590	17.600	0.5
144	5720	3.860	3.845	0.5

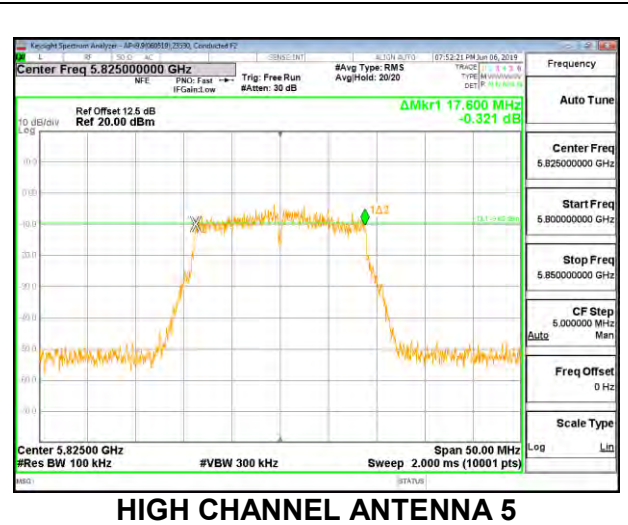
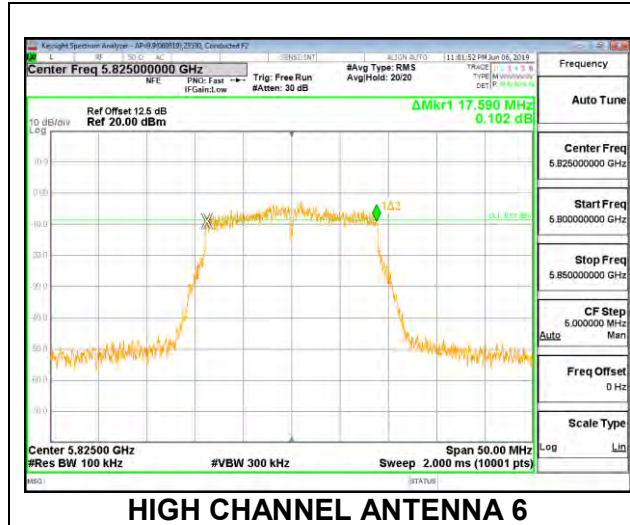
LOW CHANNEL



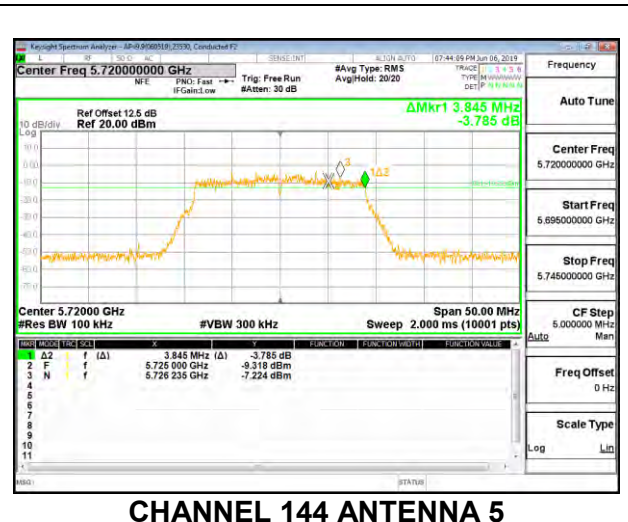
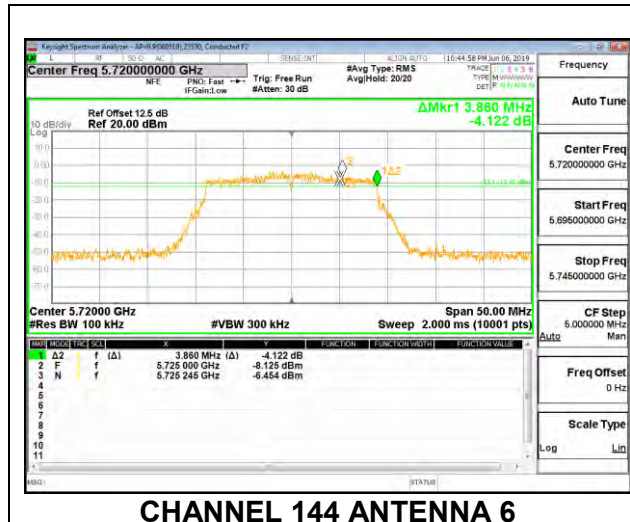
MID CHANNEL



HIGH CHANNEL



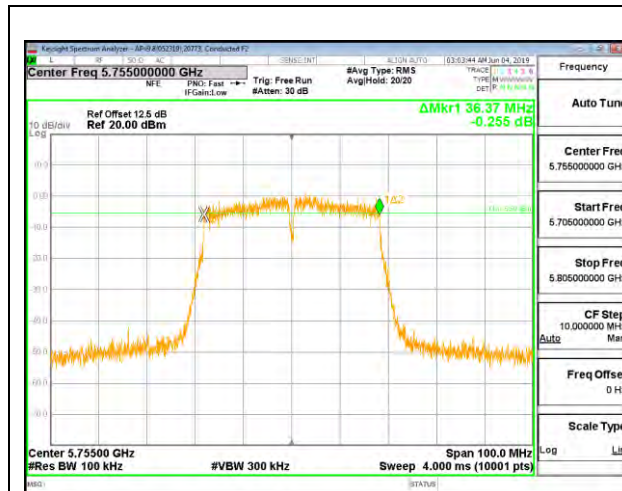
CHANNEL 144



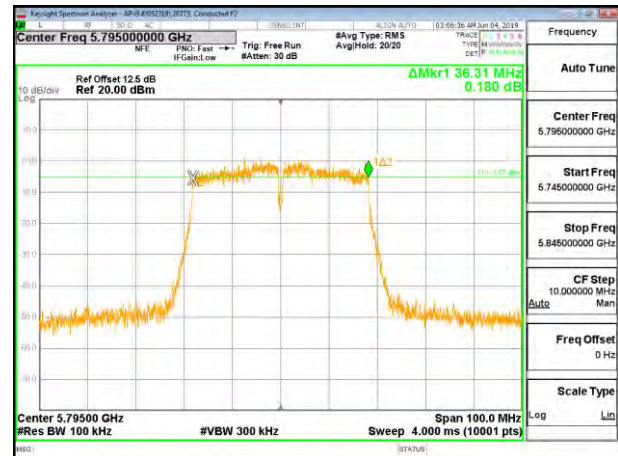
8.4.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE

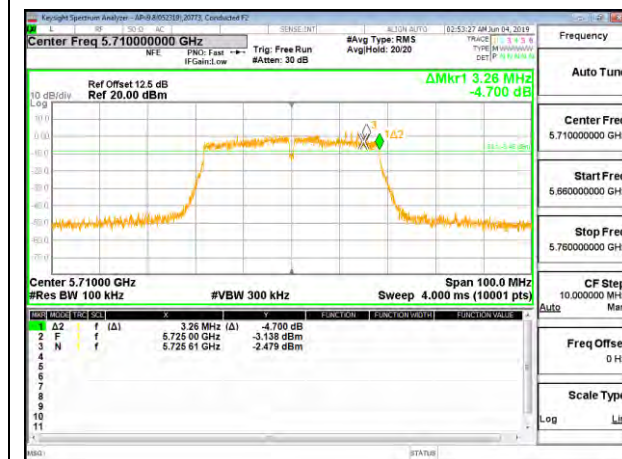
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	36.370	0.5
High	5795	36.310	0.5
142	5710	3.260	0.5



LOW CHANNEL



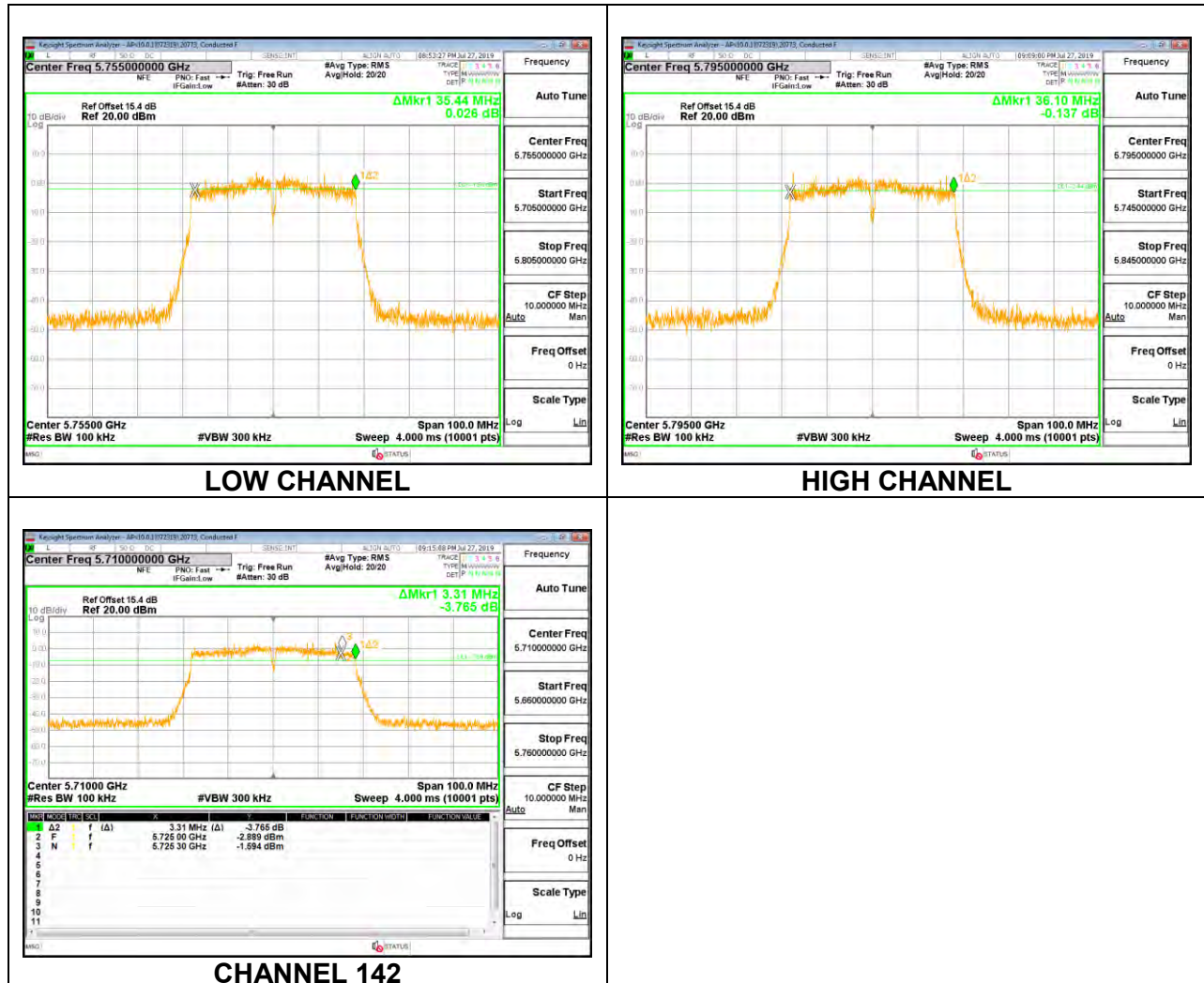
HIGH CHANNEL



CHANNEL 142

1TX Antenna 5 MODE

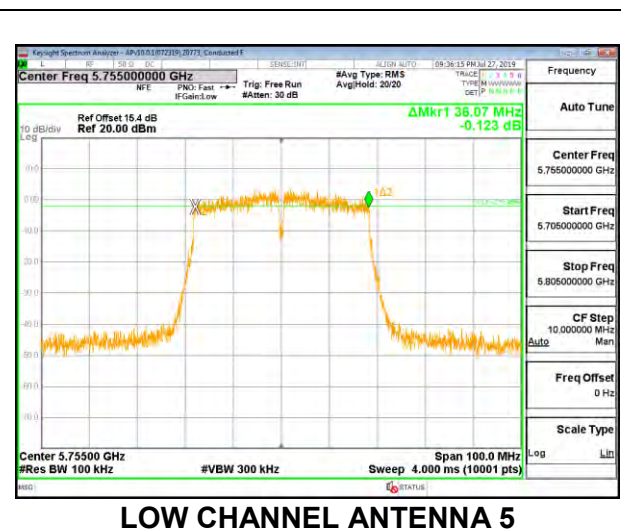
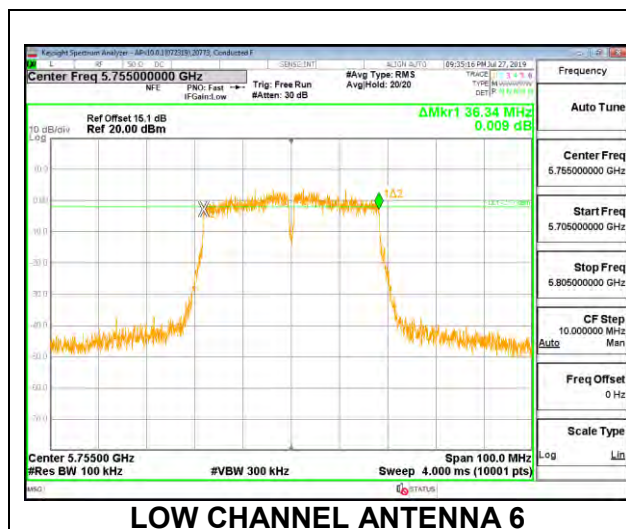
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	35.440	0.5
High	5795	36.100	0.5
142	5710	3.310	0.5



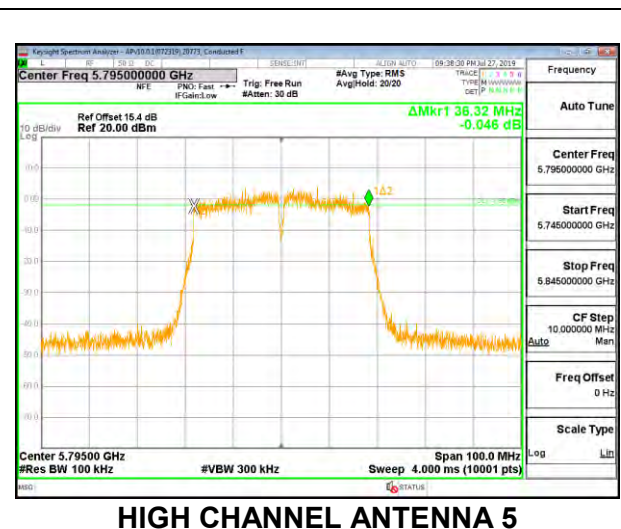
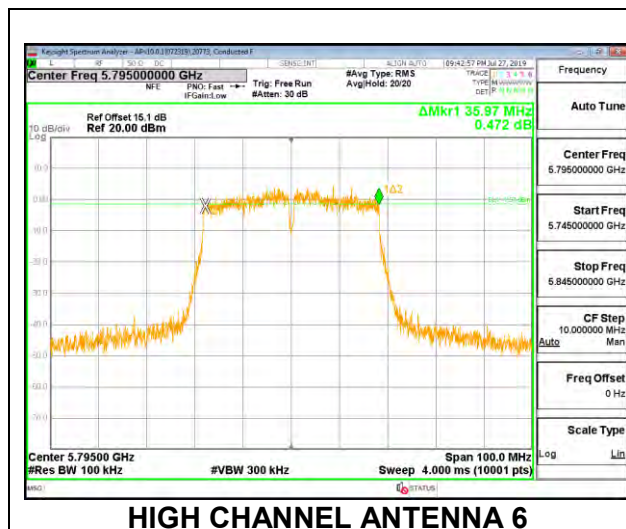
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	36.340	36.070	0.5
High	5795	35.970	36.320	0.5
142	5710	3.210	3.280	0.5

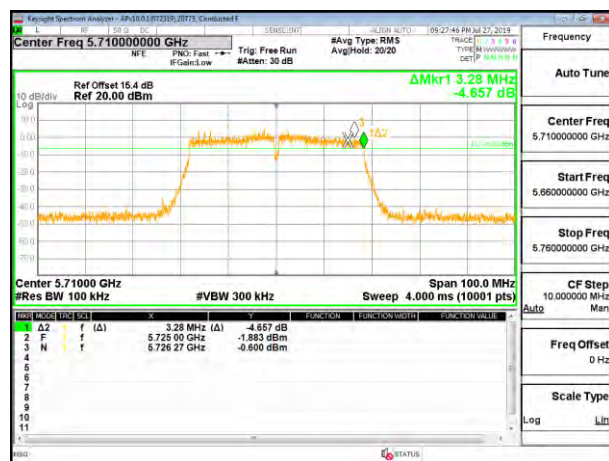
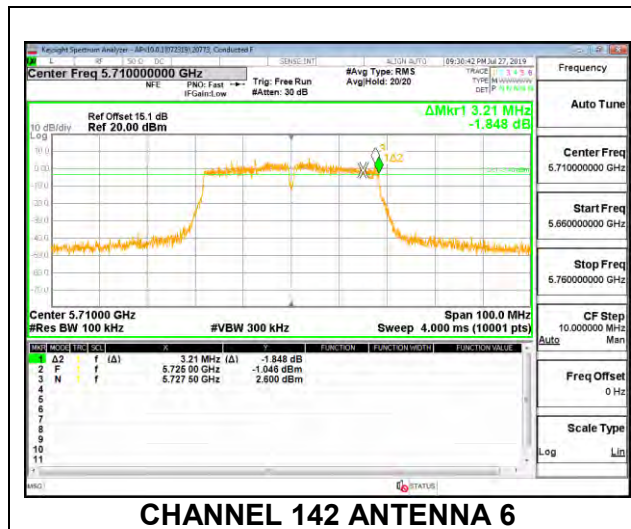
LOW CHANNEL



HIGH CHANNEL



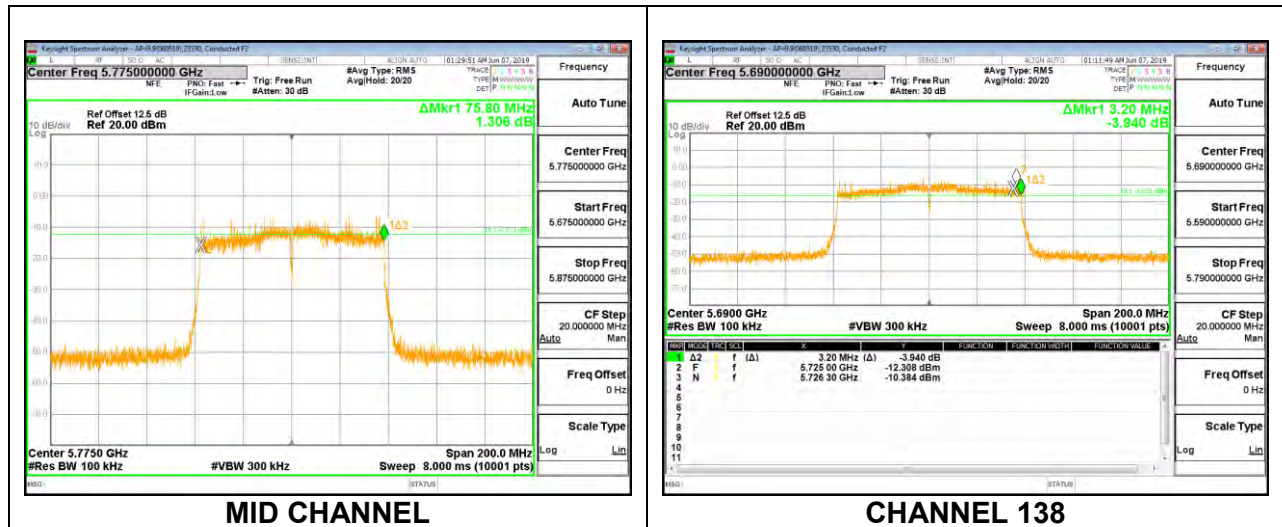
CHANNEL 142



8.4.3. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

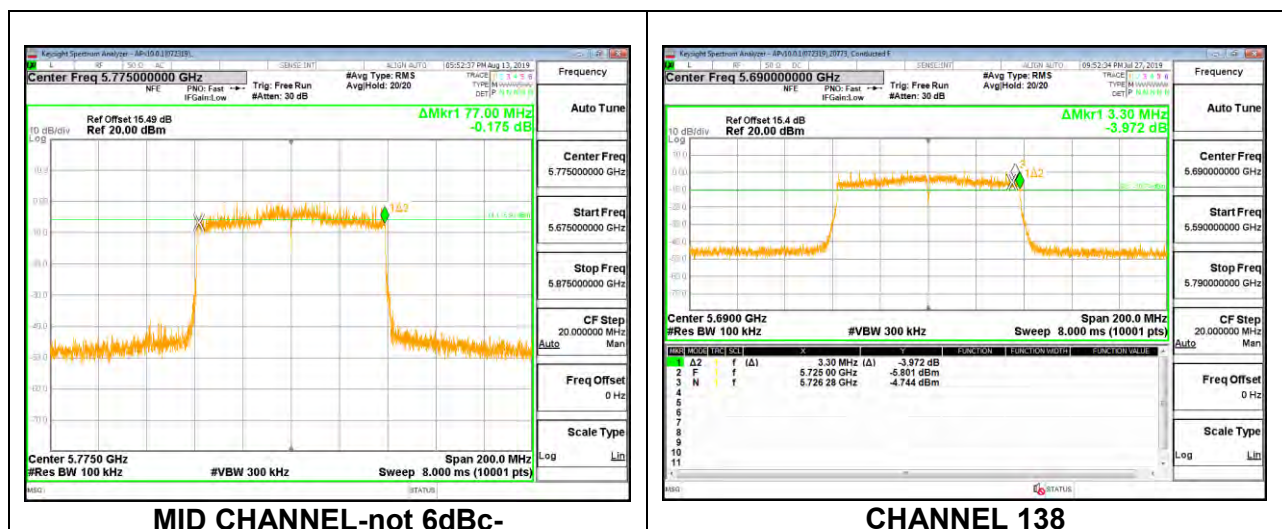
1TX Antenna 6 MODE

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	75.800	0.5
138	5690	3.200	0.5



1TX Antenna 5 MODE

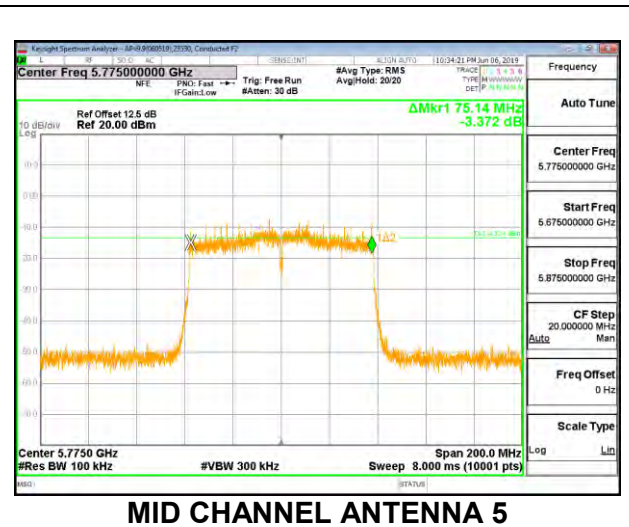
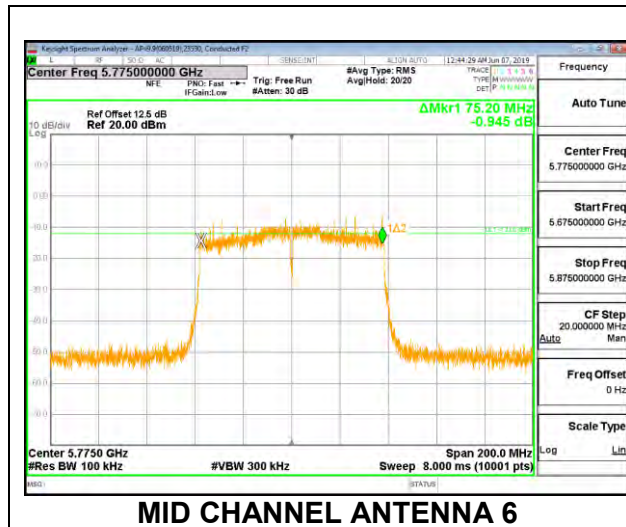
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	77.000	0.5
138	5690	3.300	0.5



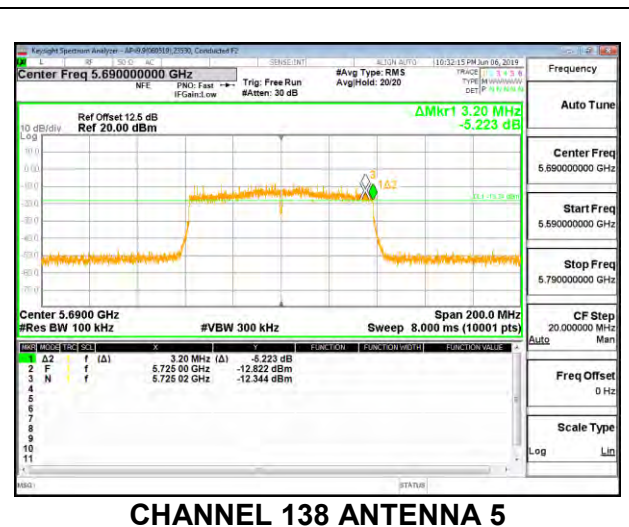
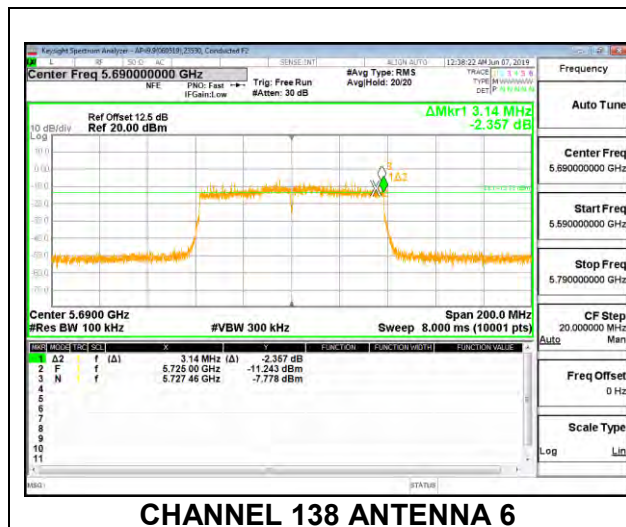
2TX Antenna 6 + Antenna 5 CDD MODE

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	75.200	75.140	0.5
138	5690	3.140	3.200	0.5

MID CHANNEL



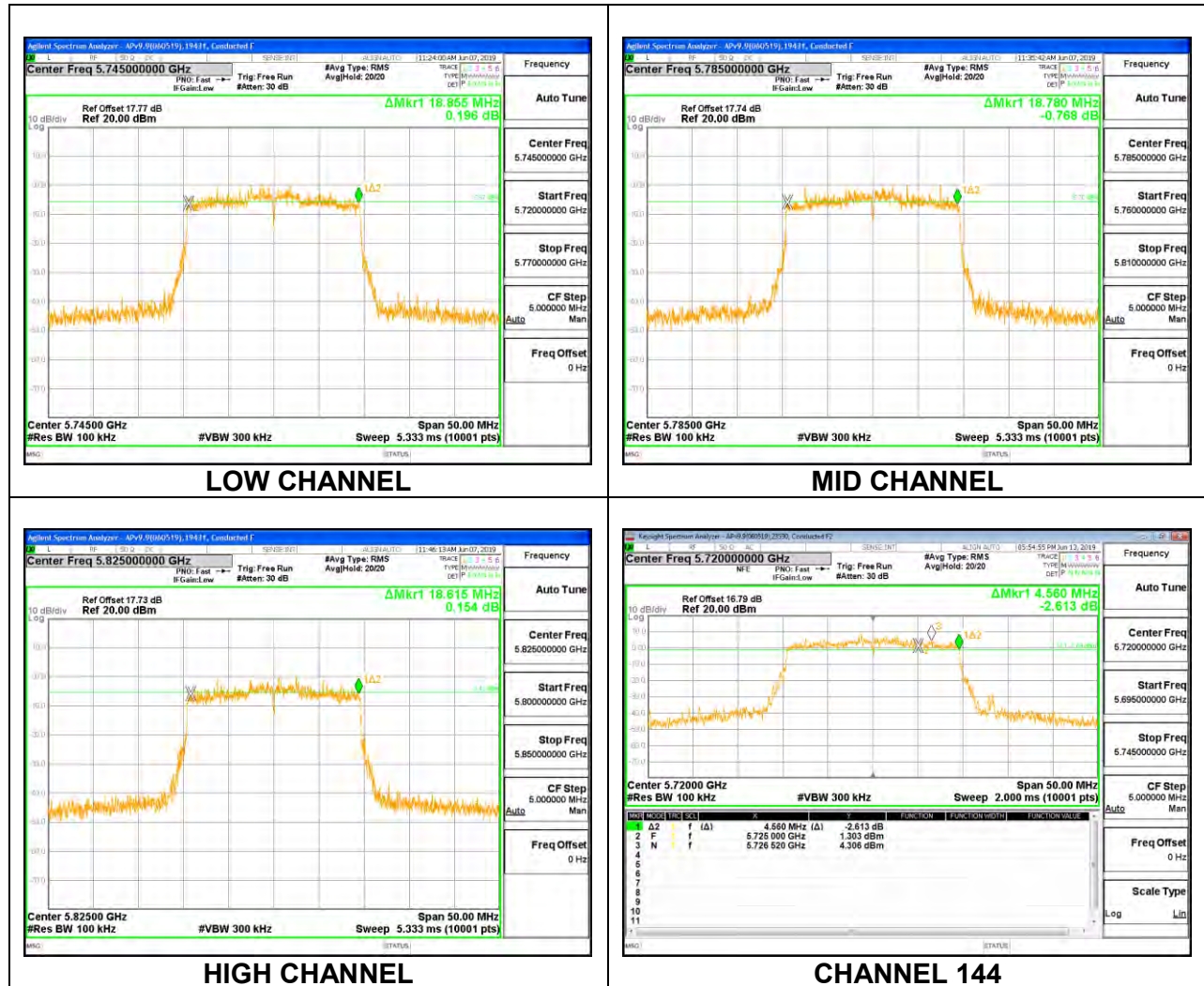
CHANNEL 138



8.4.4. 802.11ax HE20 MODE IN THE 5.8 GHz BAND

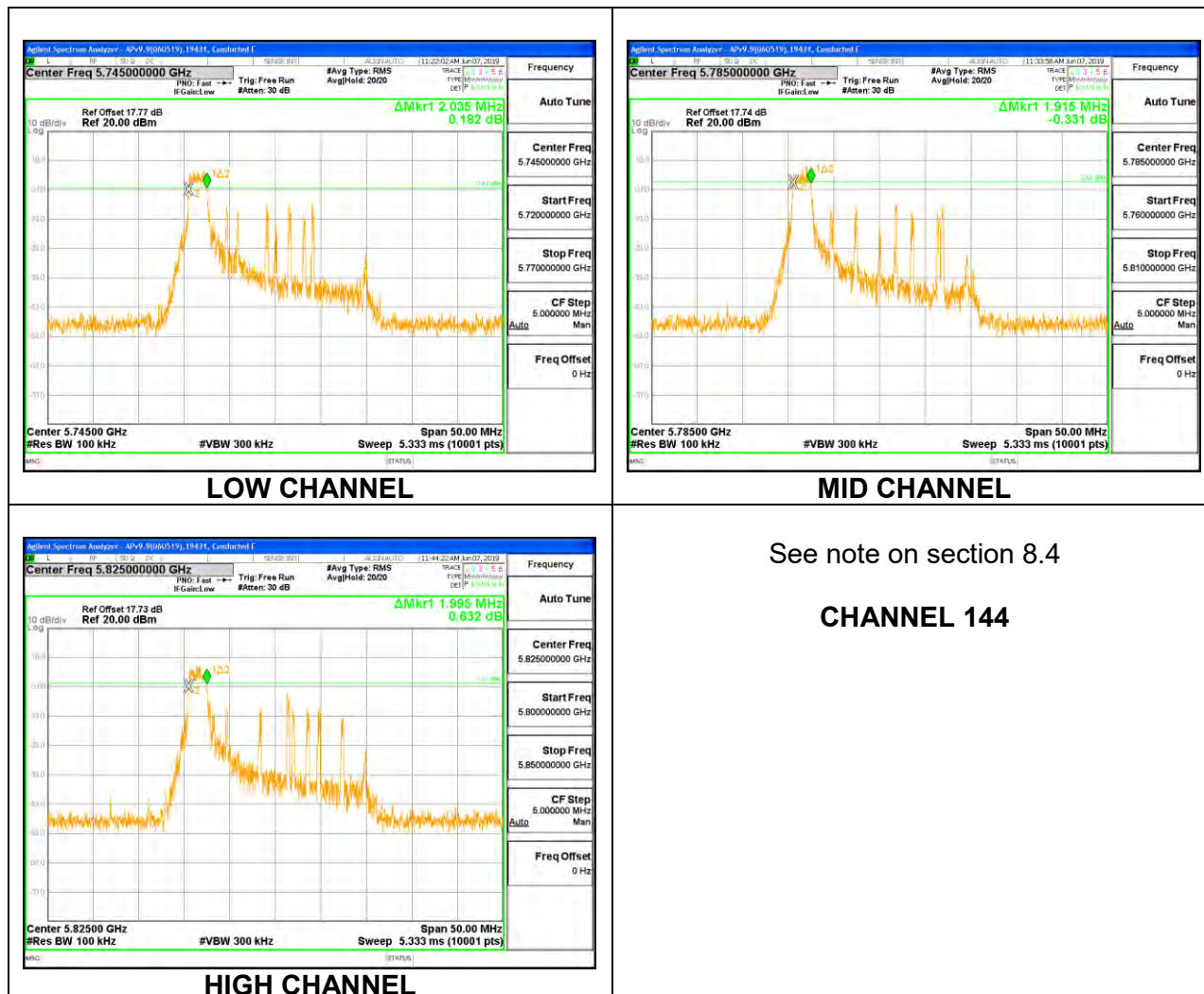
1TX Antenna 6 MODE – 242-Tones, RU Index 61

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	18.855	0.5
Mid	5785	18.780	0.5
High	5825	18.615	0.5
144	5720	4.560	0.5



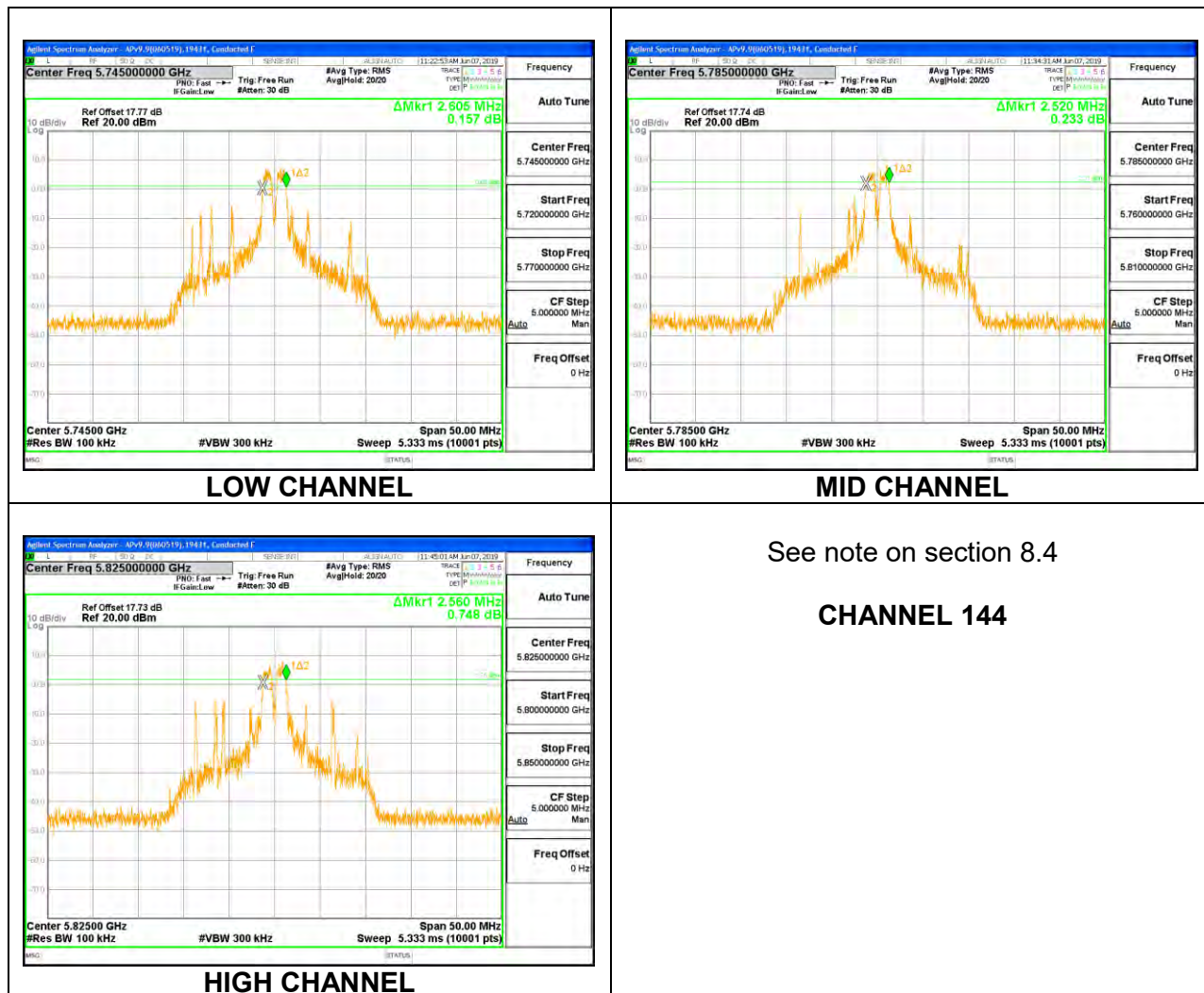
1TX Antenna 6 MODE – 26-Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.035	0.5
Mid	5785	1.915	0.5
High	5825	1.995	0.5



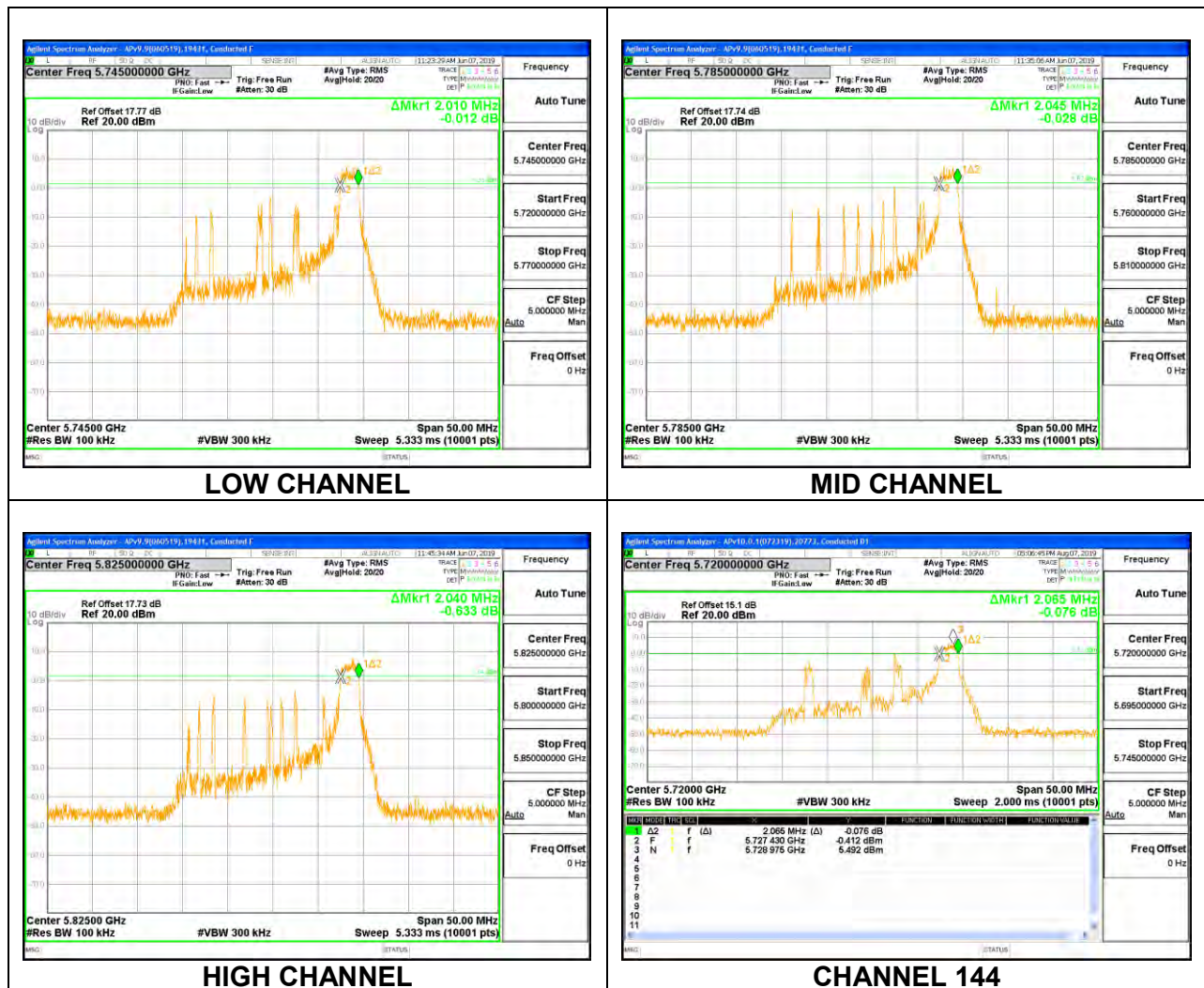
1TX Antenna 6 MODE – 26-Tones, RU Index 4

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	2.605	0.5
Mid	5785	2.520	0.5
High	5825	2.560	0.5



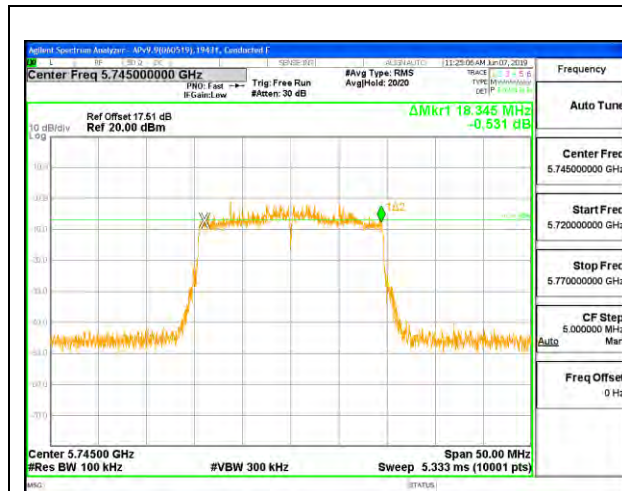
1TX Antenna 6 MODE – 26-Tones, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.010	0.5
Mid	5785	2.045	0.5
High	5825	2.040	0.5
144	5720	2.065	0.5

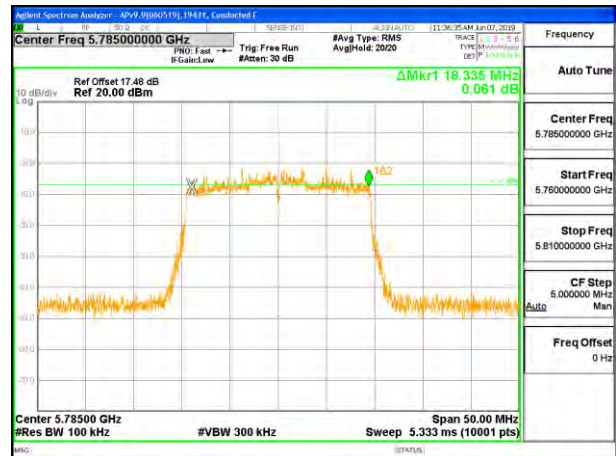


1TX Antenna 5 MODE – 242-Tones, RU Index 61

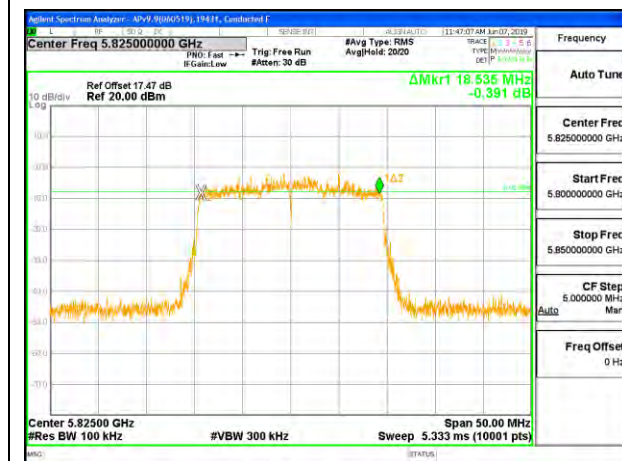
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	18.345	0.5
Mid	5785	18.335	0.5
High	5825	18.535	0.5
144	5720	3.865	0.5



LOW CHANNEL



MID CHANNEL



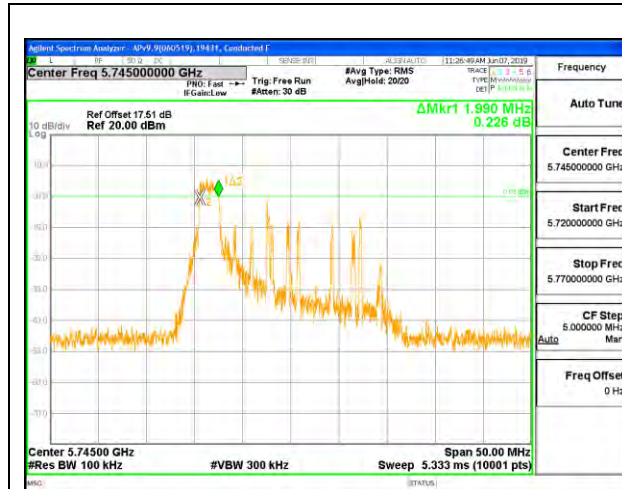
HIGH CHANNEL



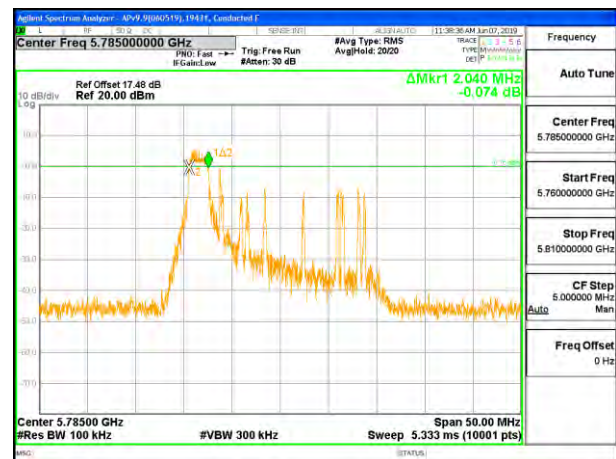
CHANNEL 144

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

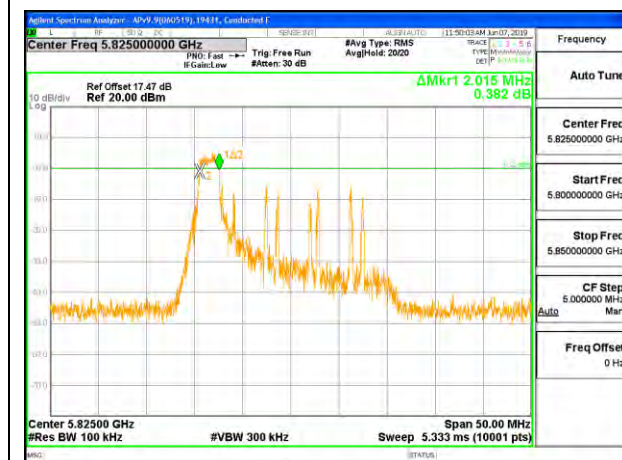
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	1.990	0.5
Mid	5785	2.040	0.5
High	5825	2.015	0.5



LOW CHANNEL



MID CHANNEL



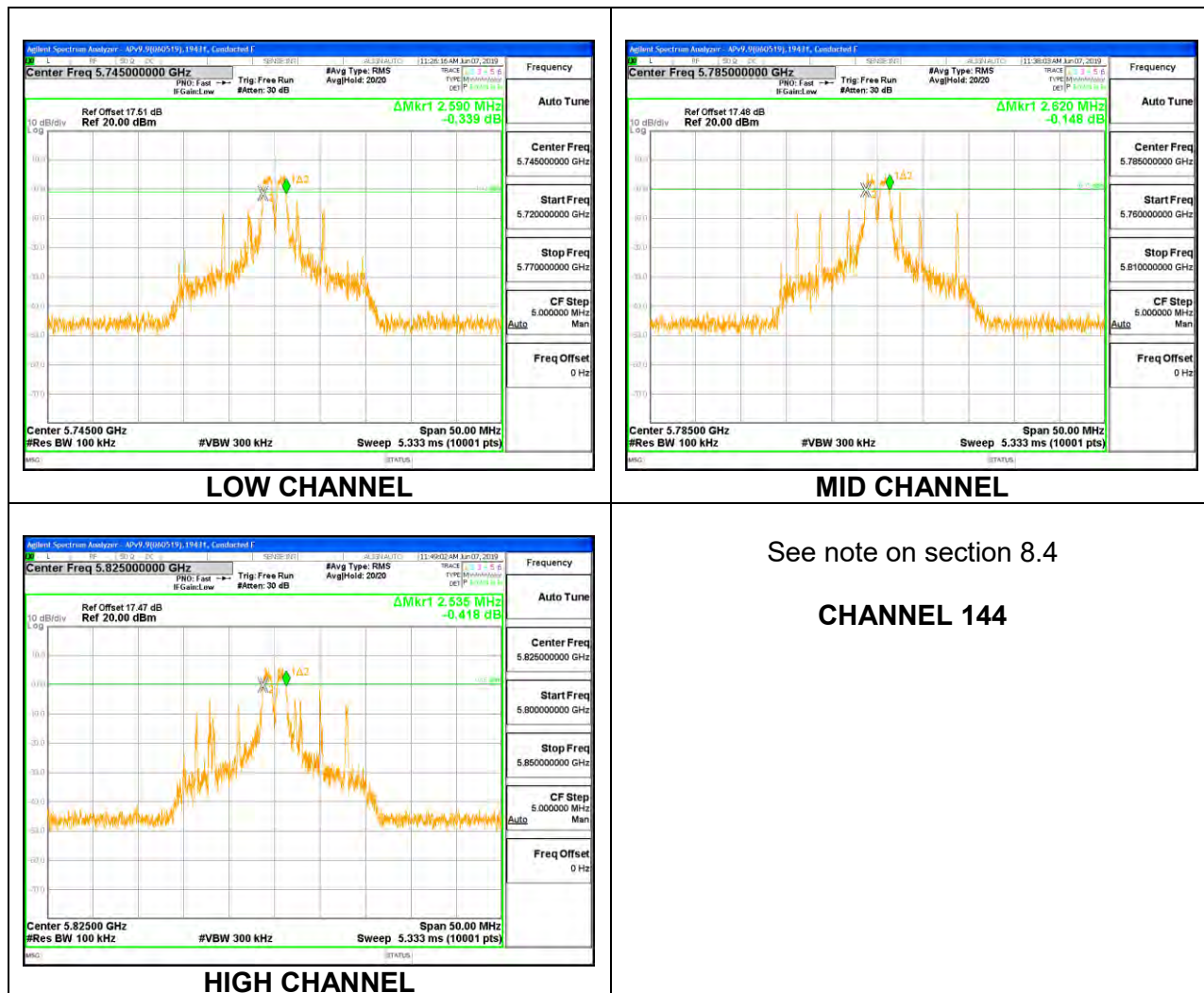
HIGH CHANNEL

See note on section 8.4

CHANNEL 144

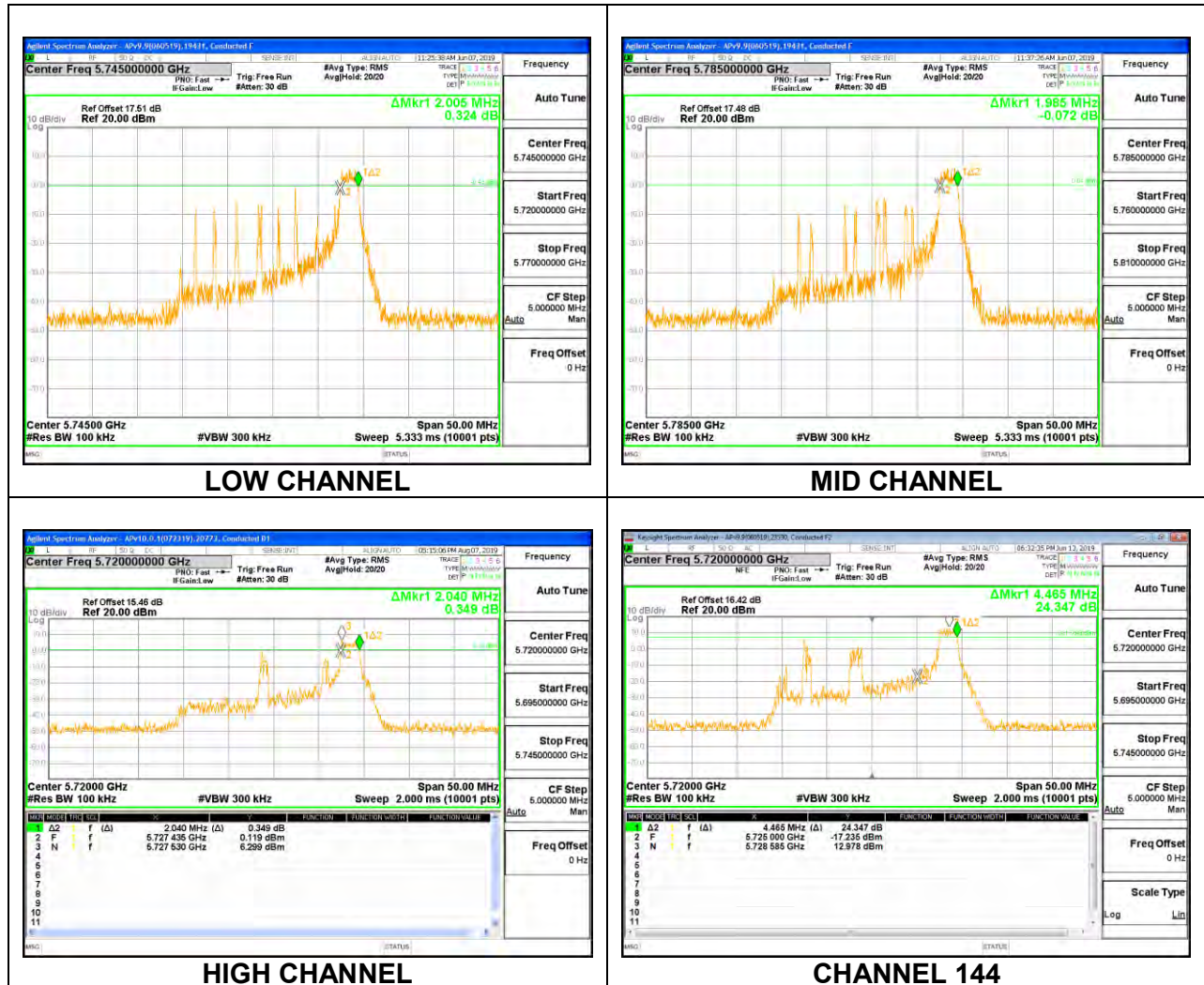
1TX Antenna 5 MODE – 26-Tones, RU Index 4

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	2.590	0.5
Mid	5785	2.620	0.5
High	5825	2.535	0.5



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

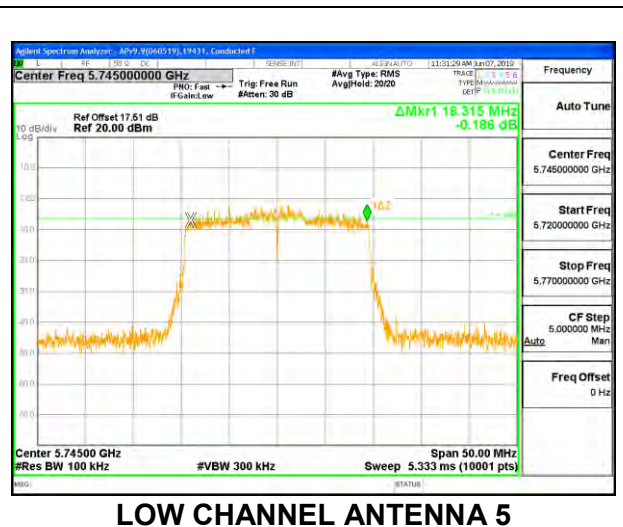
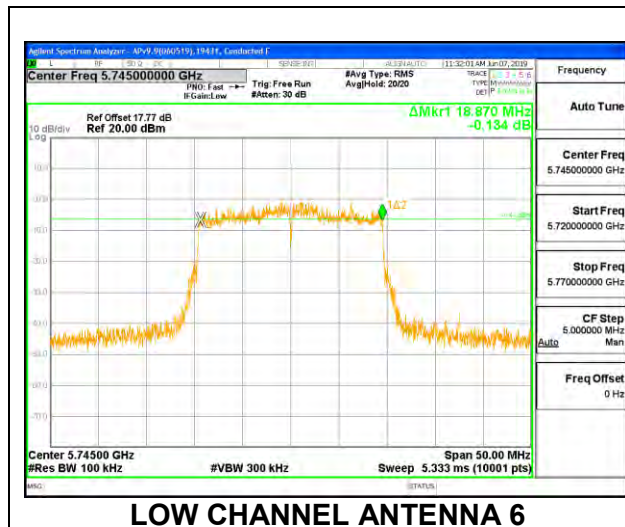
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5745	2.005	0.5
Mid	5785	1.985	0.5
High	5825	1.965	0.5
144	5720	2.040	0.5



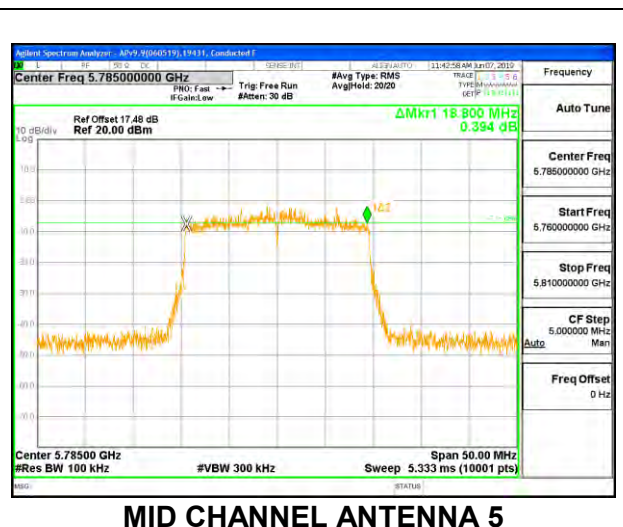
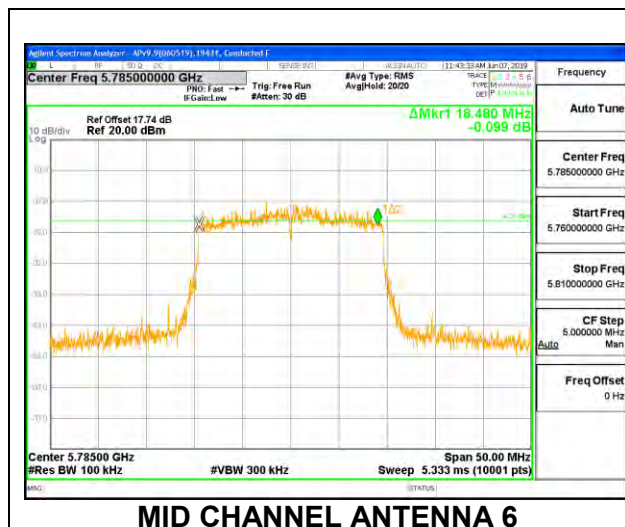
2TX Antenna 6 + Antenna 5 OFDMA MODE – 242-Tones, RU Index 61

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	18.870	18.315	0.5
Mid	5785	18.480	18.800	0.5
High	5825	18.530	17.880	0.5
144	5720	4.530	4.500	0.5

LOW CHANNEL



MID CHANNEL



Agilent Spectrum Analyzer - N99-V1604D119, EN411, Conducted F

Center Freq 5.825000000 GHz

Ref Offset 17.73 dB
Ref 20.00 dBm

DMkr1 18.530 MHz
-0.101 dB

Center Freq 5.825000000 GHz

Start Freq 5.800000000 GHz

Stop Freq 5.850000000 GHz

CF Step 5.000000 MHz

Auto

Freq Offset 0 Hz

Center 5.82500 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 5.333 ms (10001 pts)

Span 50.00 MHz

STATUS

HIGH CHANNEL ANTENNA 6

Agilent Spectrum Analyzer - N99-V1604D119, EN411, Conducted F

Center Freq 5.825000000 GHz

Ref Offset 17.47 dB
Ref 20.00 dBm

DMkr1 17.880 MHz
0.498 dB

Center Freq 5.825000000 GHz

Start Freq 5.800000000 GHz

Stop Freq 5.850000000 GHz

CF Step 5.000000 MHz

Auto

Freq Offset 0 Hz

Center 5.82500 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 5.333 ms (10001 pts)

Span 50.00 MHz

STATUS

HIGH CHANNEL ANTENNA 5

Channel 144 Antenna 4

Center Freq 5.72000000 GHz
 Ref OffSet 16.79 dB
 Ref 20.00 dBm
 ΔMrk1 4.530 MHz
 -2.825 dB

Center Freq 5.72000000 GHz
 Start Freq 5.695000000 GHz
 Stop Freq 5.745000000 GHz
 CF Step 5.000000 MHz
 #Res BW 100 kHz
 #VBW 300 kHz
 Sweep 2.000 ms (10001 pts)

Row	MODE	TRIG	SCA	F	Δ	dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ	f	Δ	4.530 MHz	Δ	-2.825 dB			
2	F	f		5.720 000 GHz		-1.889 dBm			
3	N	f		5.725 270 GHz		4.918 dBm			

Channel 144 Antenna 5

Center Freq 5.72000000 GHz
 Ref OffSet 16.42 dB
 Ref 20.00 dBm
 ΔMrk1 4.500 MHz
 -1.286 dB

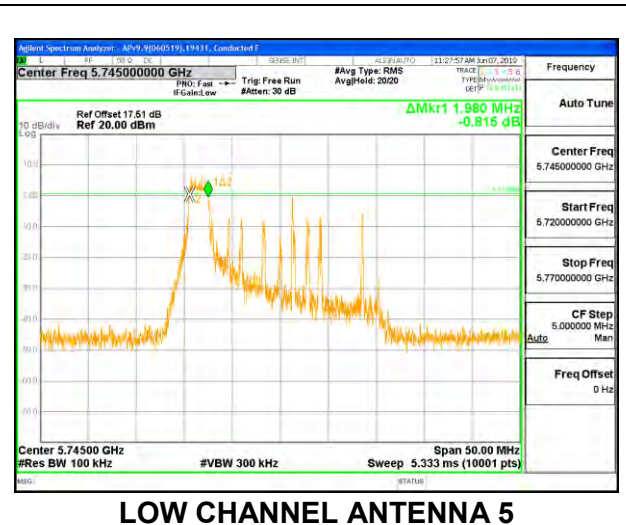
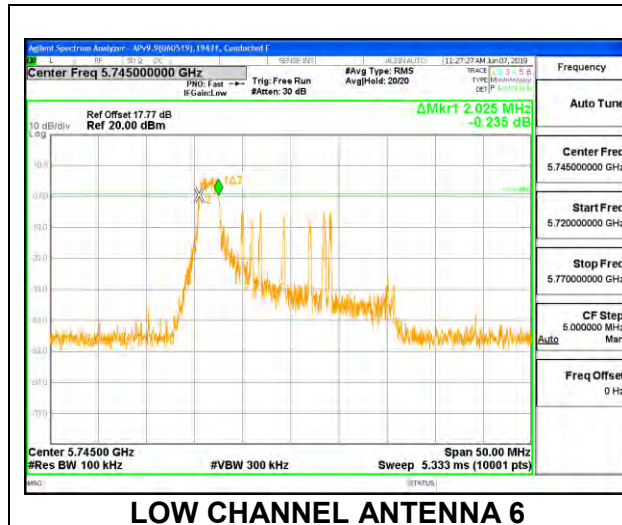
Center Freq 5.72000000 GHz
 Start Freq 5.695000000 GHz
 Stop Freq 5.745000000 GHz
 CF Step 5.000000 MHz
 #Res BW 100 kHz
 #VBW 300 kHz
 Sweep 2.000 ms (10001 pts)

Row	MODE	TRIG	SCA	F	Δ	dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ	f	Δ	4.500 MHz	Δ	-1.286 dB			
2	F	f		5.720 000 GHz		-0.885 dBm			
3	N	f		5.727 450 GHz		3.752 dBm			

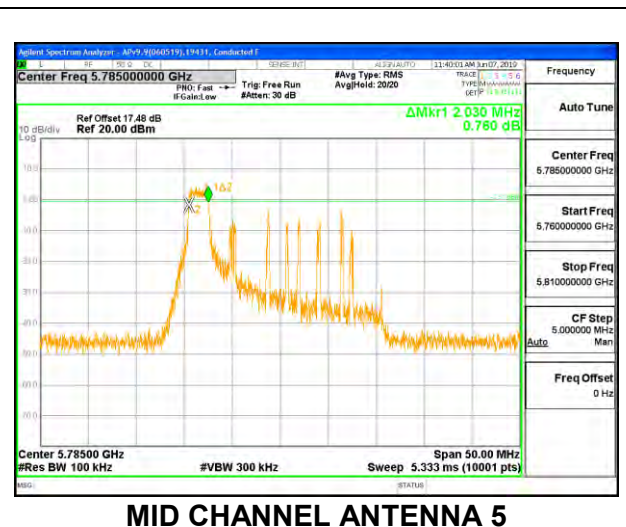
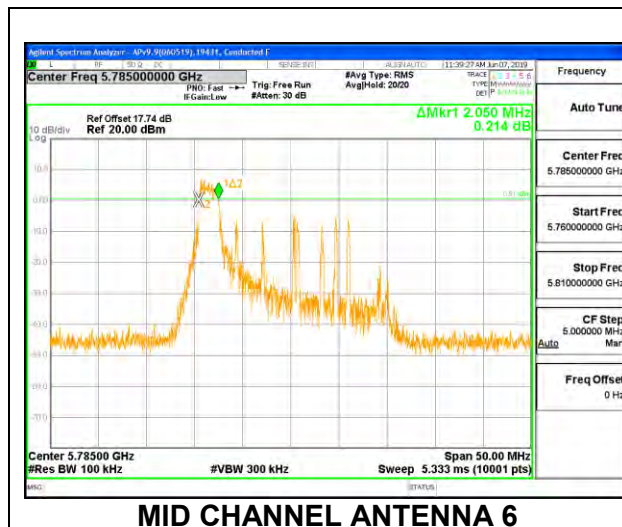
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.025	1.980	0.5
Mid	5785	2.050	2.030	0.5
High	5825	2.000	2.035	0.5

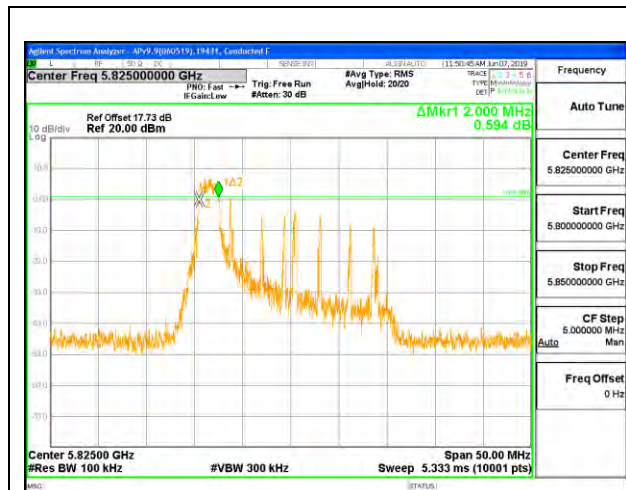
LOW CHANNEL



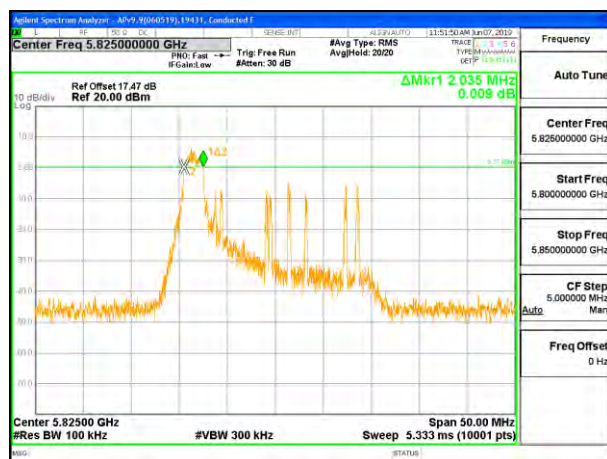
MID CHANNEL



HIGH CHANNEL



HIGH CHANNEL ANTENNA 6



HIGH CHANNEL ANTENNA 5

CHANNEL 144

See note on section 8.4

CHANNEL 144 ANT 6

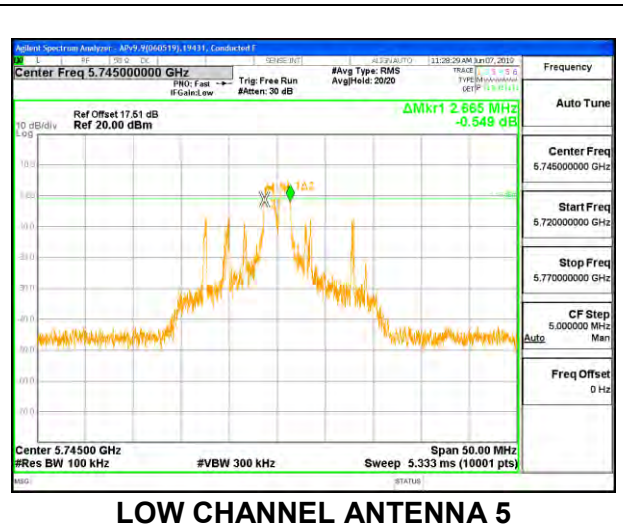
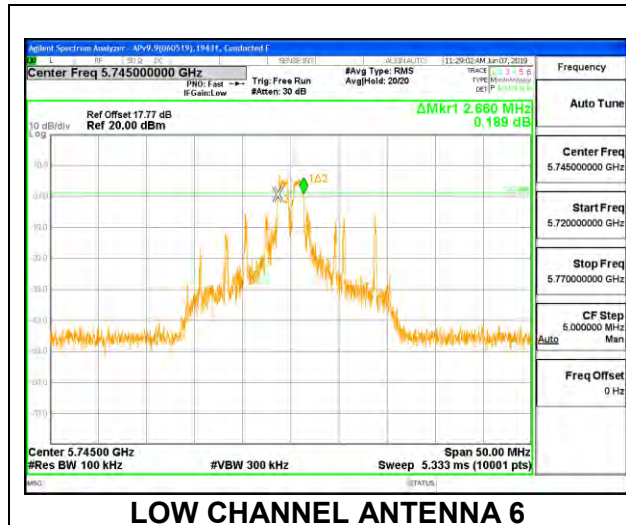
See note on section 8.4

CHANNEL 144 ANT 5

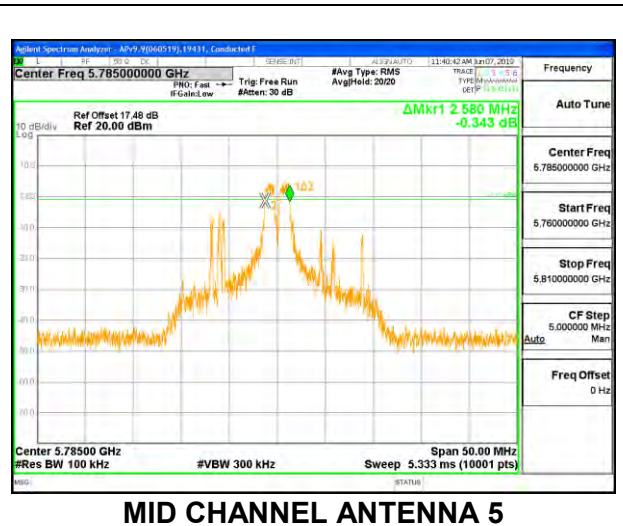
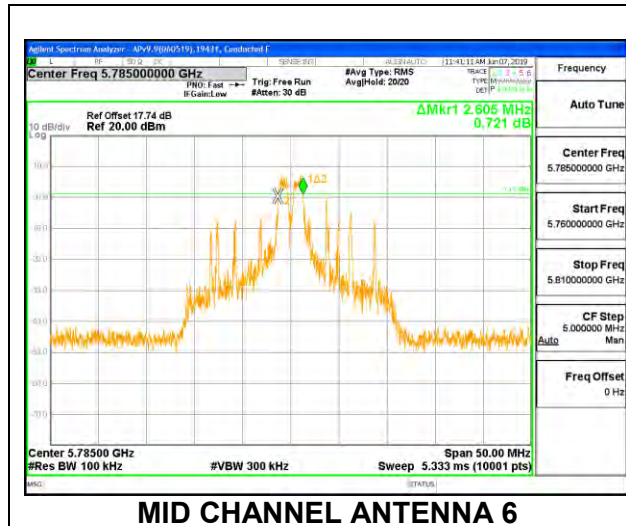
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 4

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.660	2.665	0.5
Mid	5785	2.605	2.580	0.5
High	5825	2.515	2.555	0.5

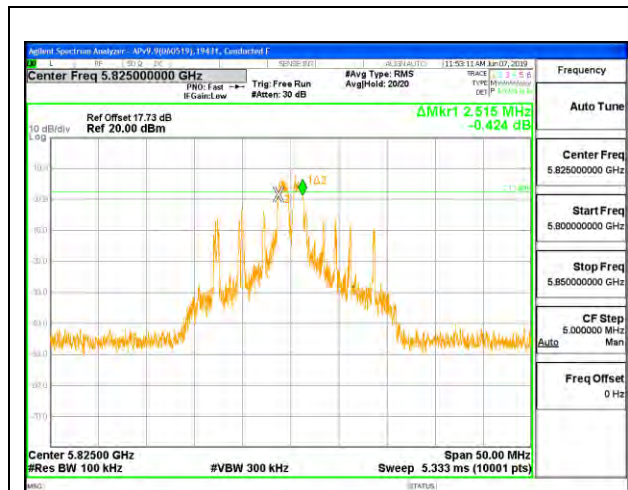
LOW CHANNEL



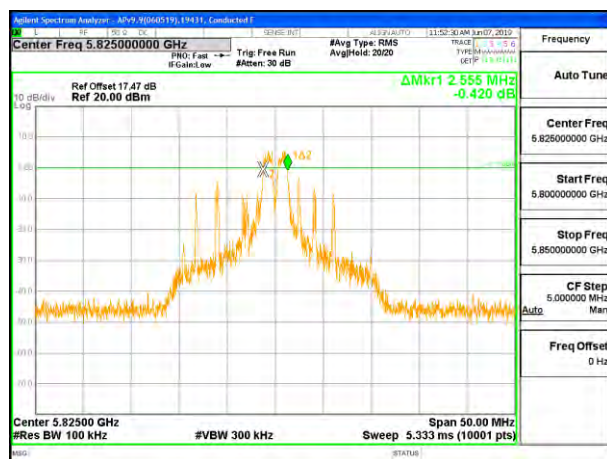
MID CHANNEL



HIGH CHANNEL



HIGH CHANNEL ANTENNA 6



HIGH CHANNEL ANTENNA 5

CHANNEL 144

See note on section 8.4

CHANNEL 144 ANT 6

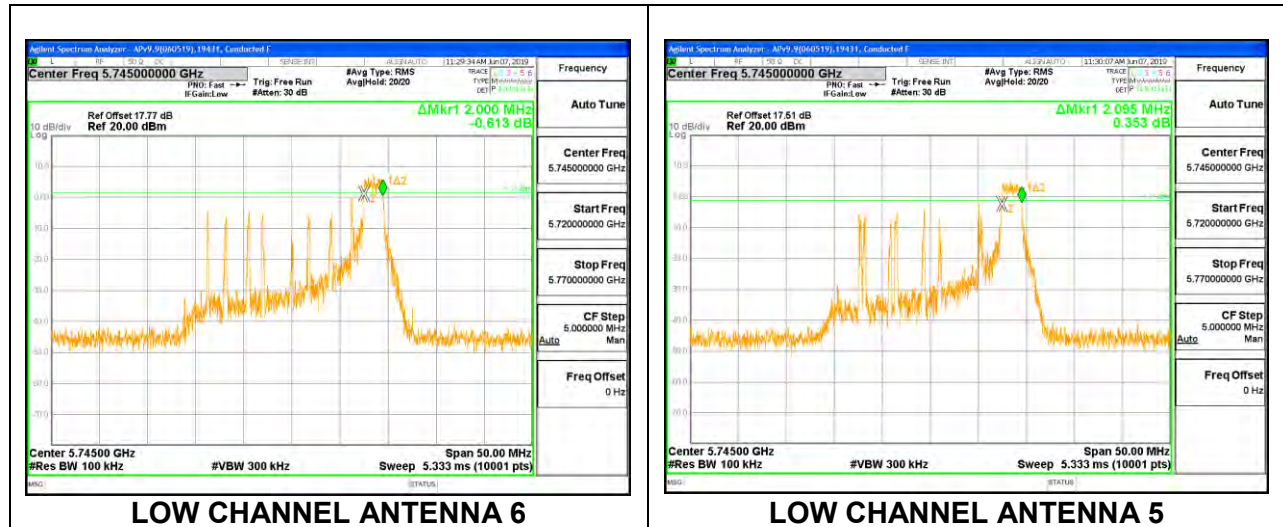
See note on section 8.4

CHANNEL 144 ANT 5

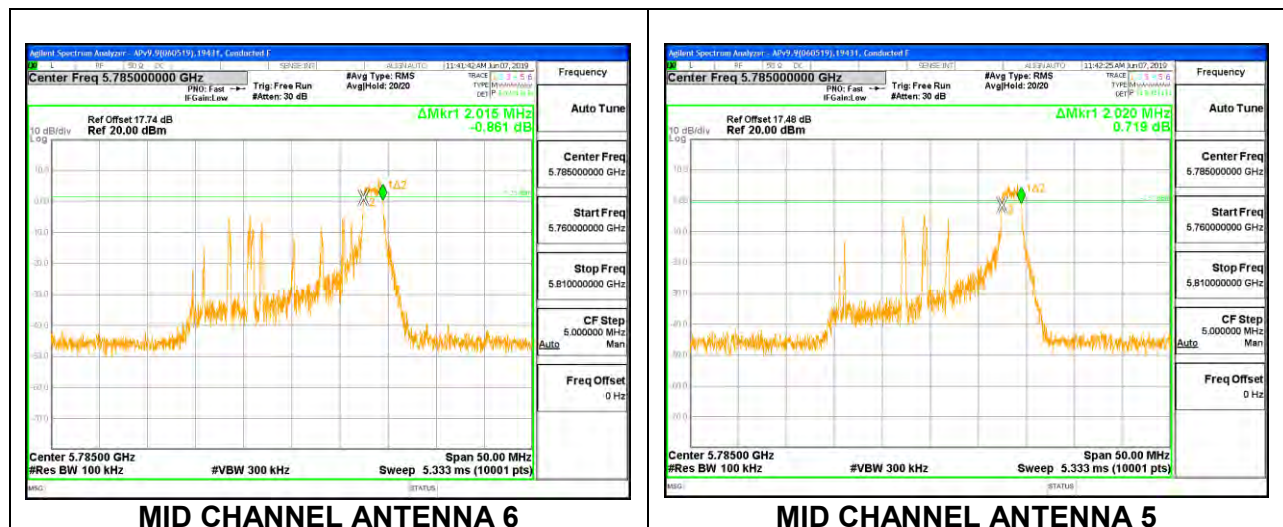
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 8

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5745	2.000	2.095	0.5
Mid	5785	2.015	2.020	0.5
High	5825	2.015	2.095	0.5
144	5720	2.030	2.025	0.5

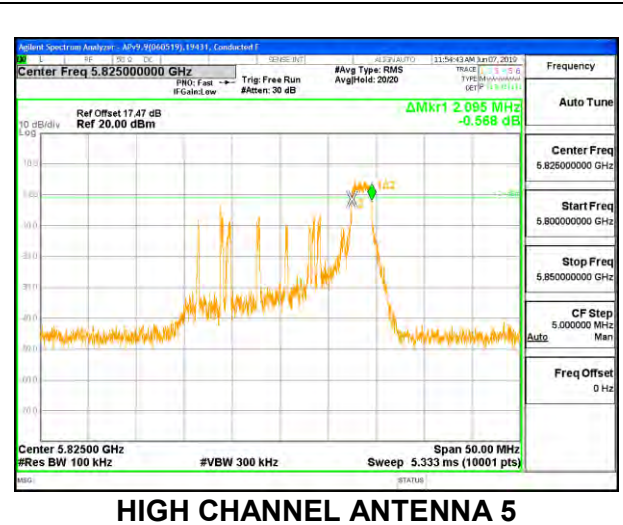
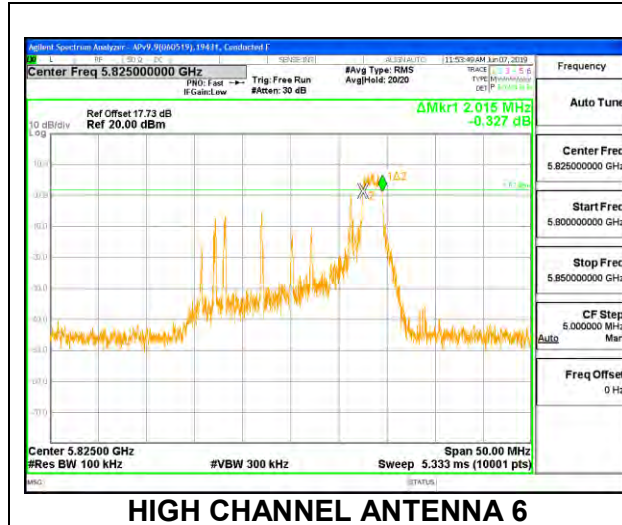
LOW CHANNEL



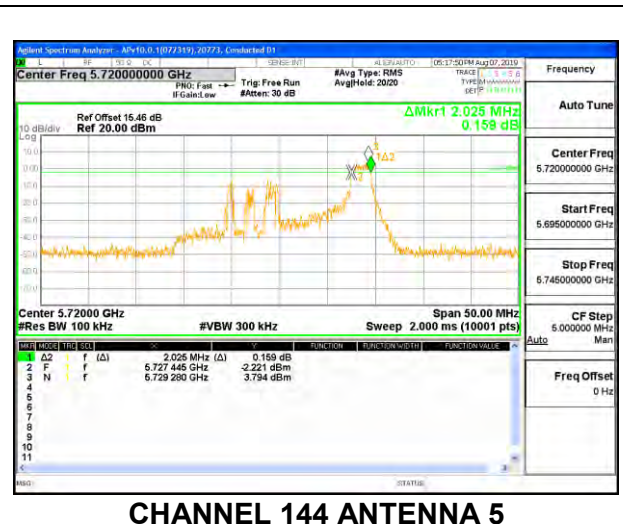
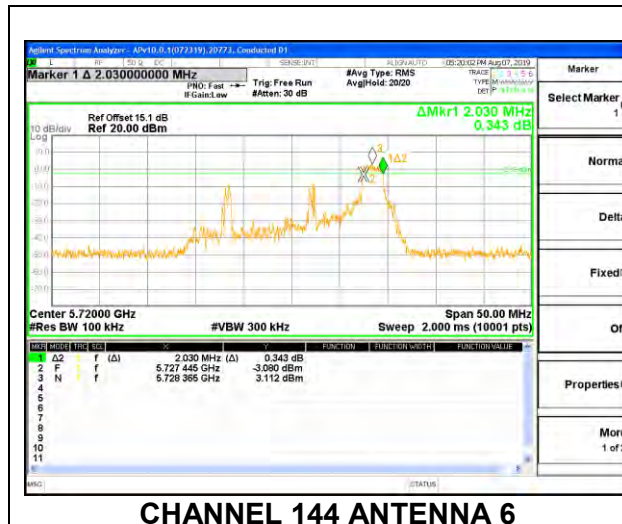
MID CHANNEL



HIGH CHANNEL



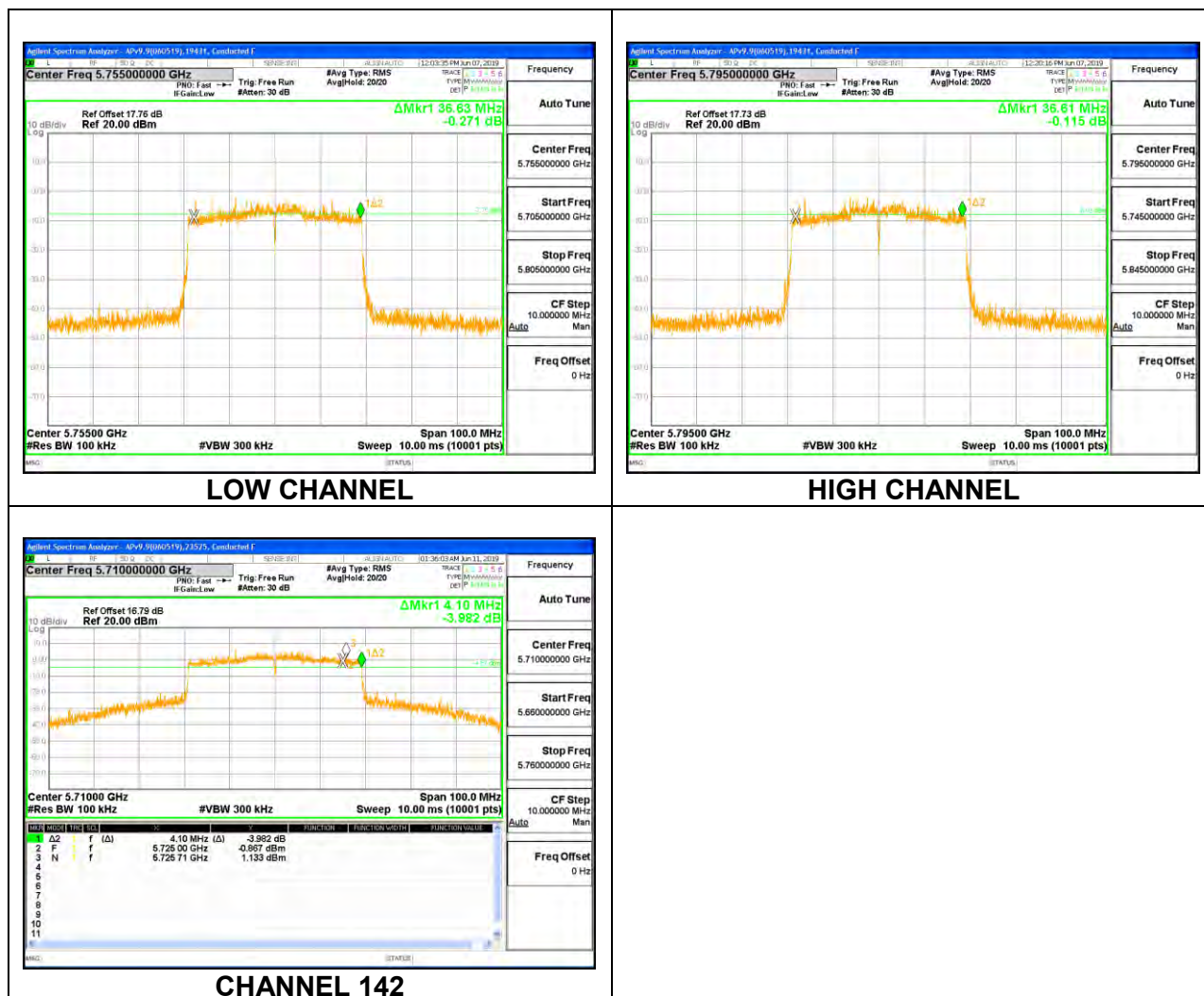
CHANNEL 144



8.4.5. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

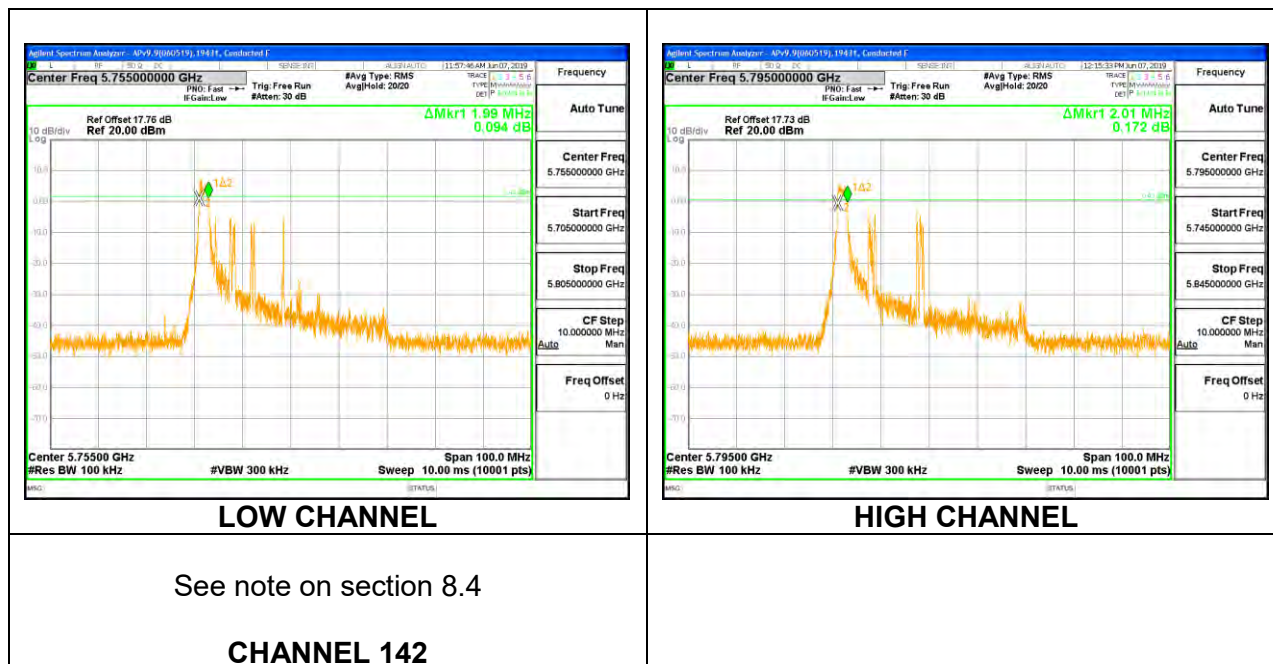
1TX Antenna 6 MODE – 484-Tones, RU Index 65

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	36.630	0.5
High	5795	36.610	0.5
142	5710	4.100	0.5



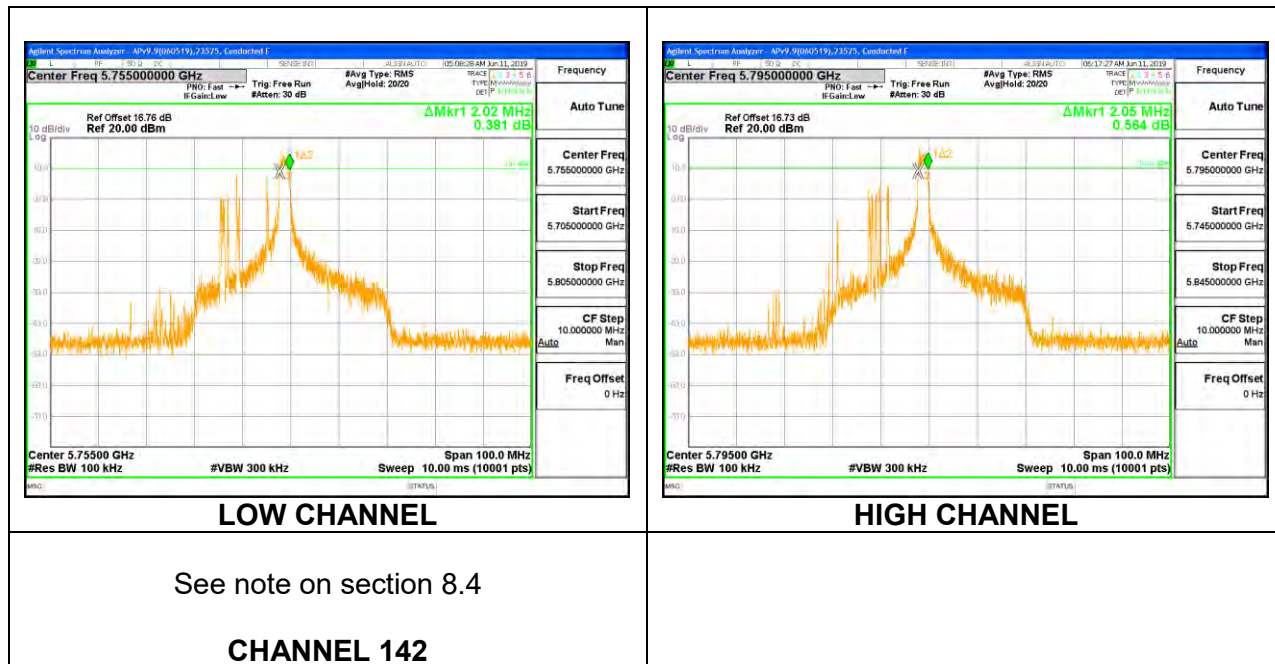
1TX Antenna 6 MODE – 26-Tones, RU Index 0

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	1.990	0.5
High	5795	2.010	0.5



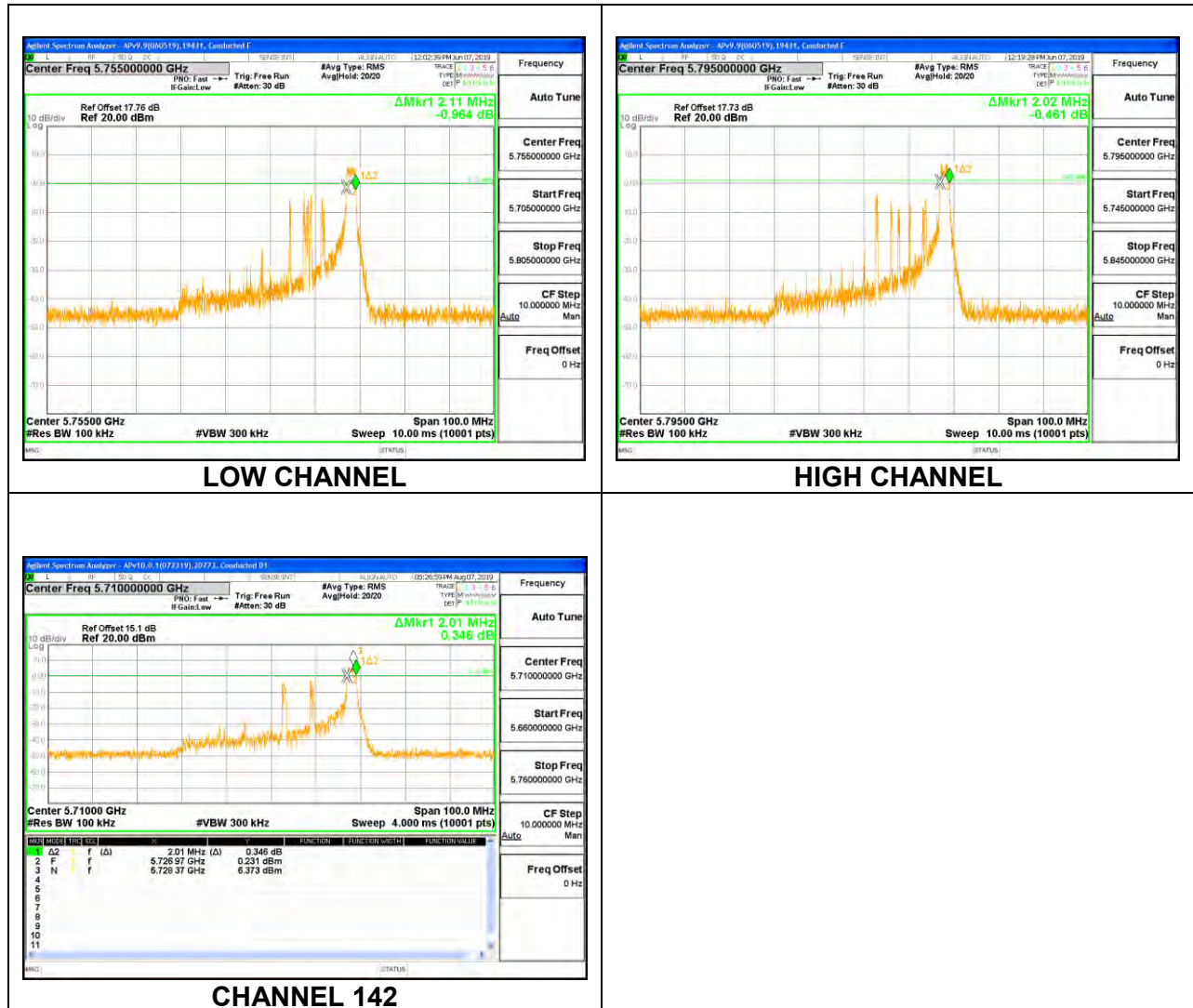
1TX Antenna 6 MODE – 26-Tones, RU Index 8

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.020	0.5
High	5795	2.050	0.5



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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.110	0.5
High	5795	2.020	0.5
142	5710	2.010	0.5



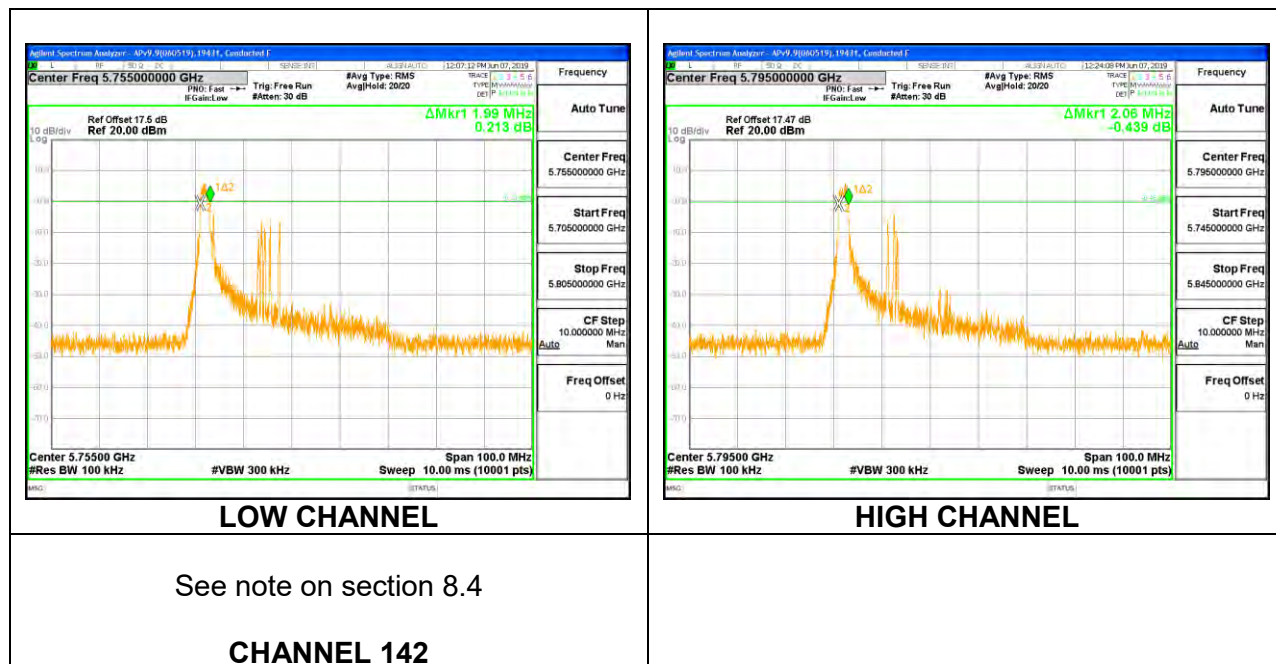
1TX Antenna 5 MODE – 484-Tones, RU Index 65

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	37.560	0.5
High	5795	36.920	0.5
142	5710	4.060	0.5



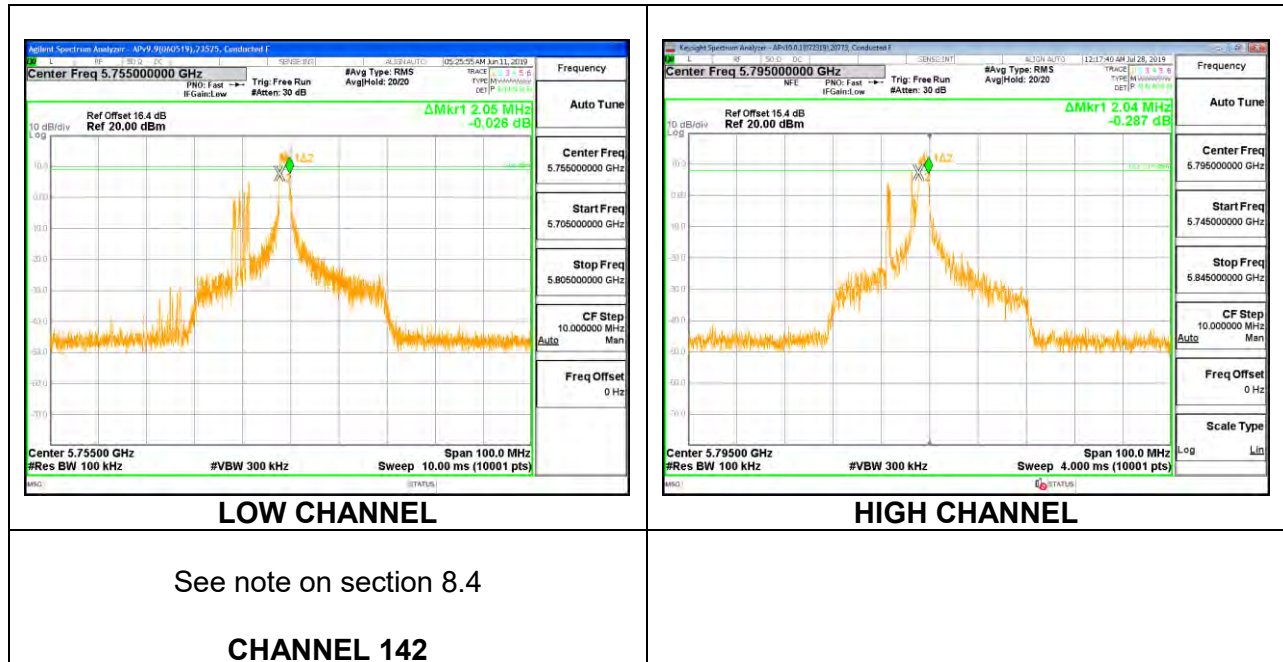
1TX Antenna 5 MODE – 26-Tones, RU Index 0

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



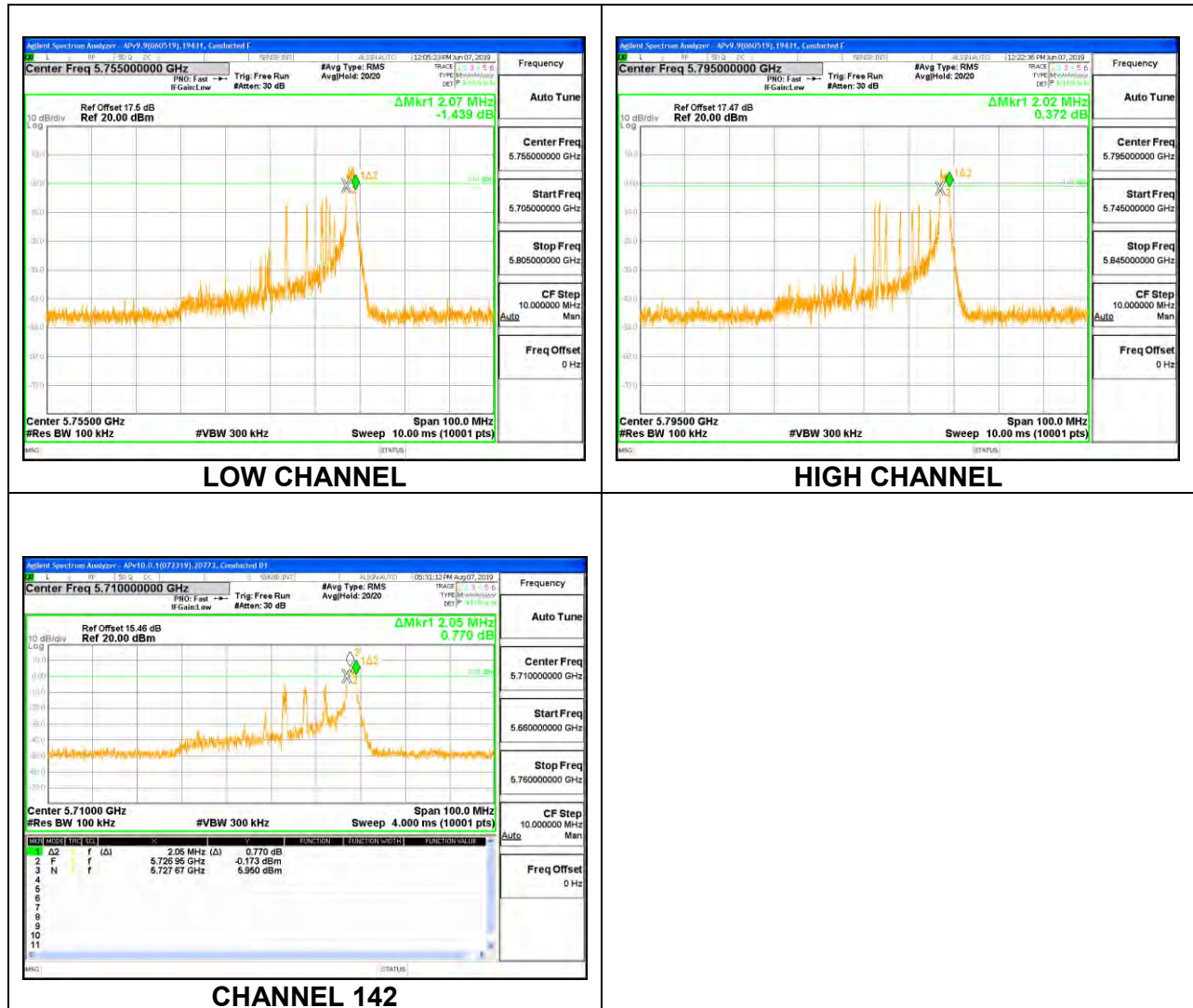
1TX Antenna 5 MODE – 26-Tones, RU Index 8

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	2.050	0.5
High	5795	2.040	0.5



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

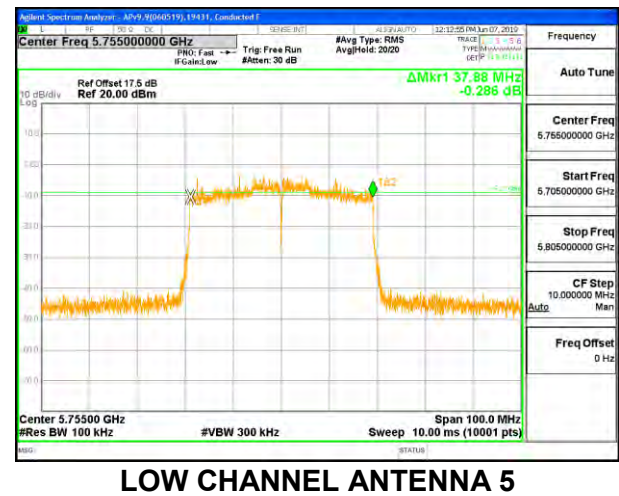
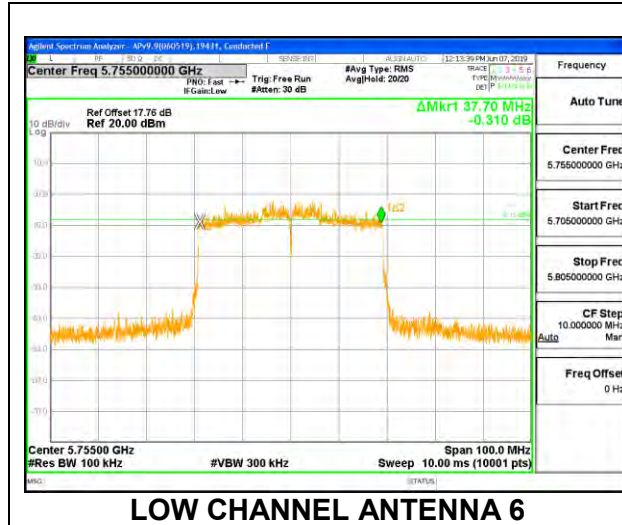
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	5755	2.070	0.5
High	5795	2.020	0.5
142	5710	2.050	0.5



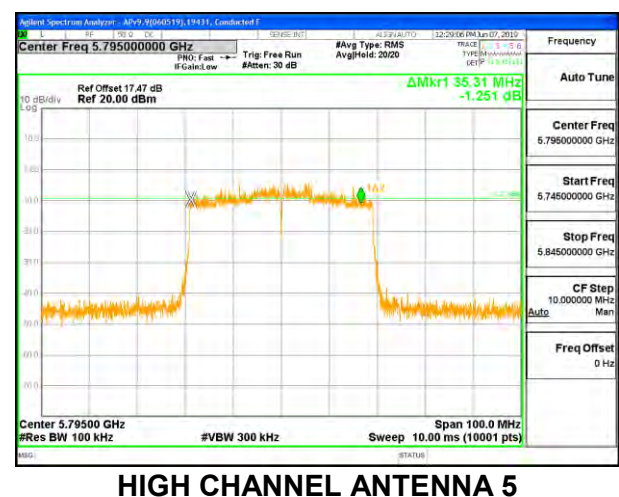
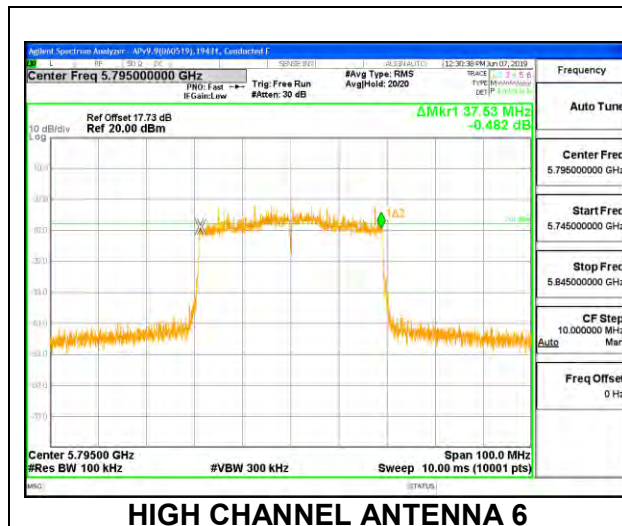
2TX Antenna 6 + Antenna 5 OFDMA MODE – 484-Tones, RU Index 65

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	37.700	37.880	0.5
High	5795	37.530	35.310	0.5
142	5710	3.930	3.980	0.5

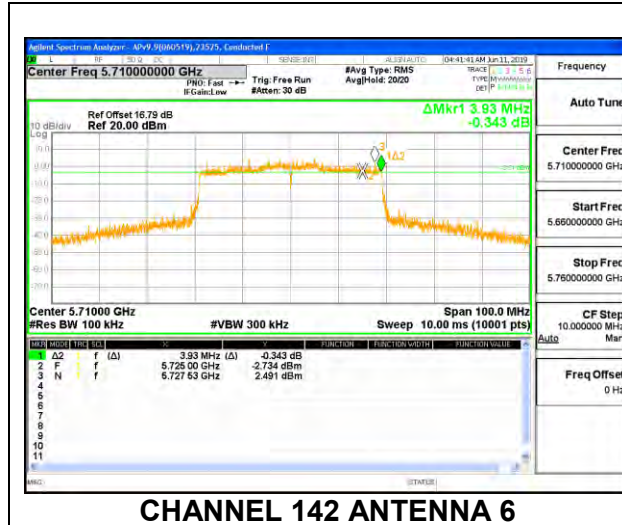
LOW CHANNEL



HIGH CHANNEL



CHANNEL 142



CHANNEL 142 ANTENNA 6

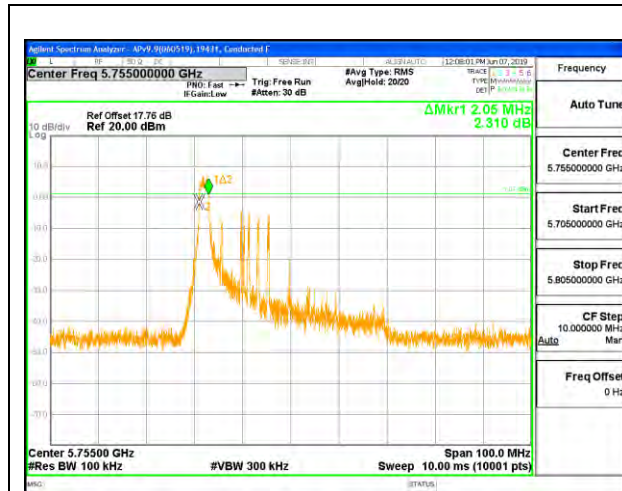


CHANNEL 142 ANTENNA 5

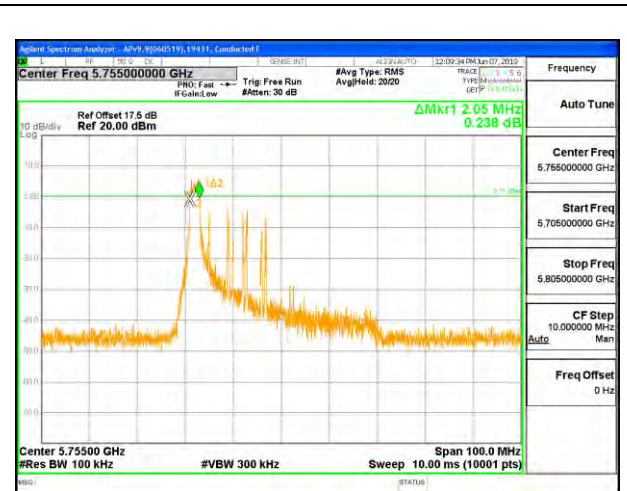
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.050	2.050	0.5
High	5795	2.030	2.080	0.5

LOW CHANNEL

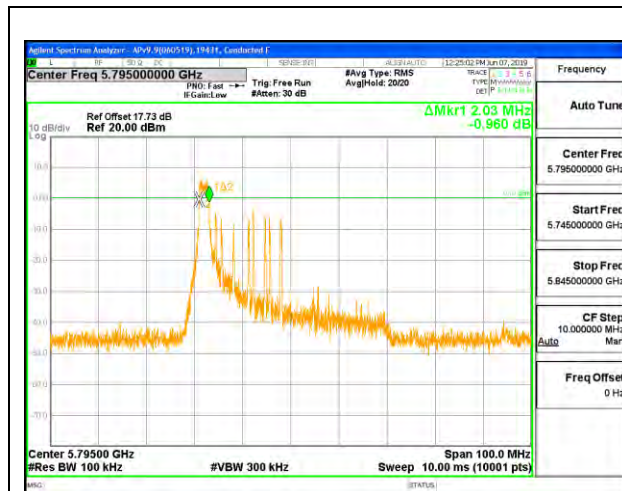


LOW CHANNEL ANTENNA 6

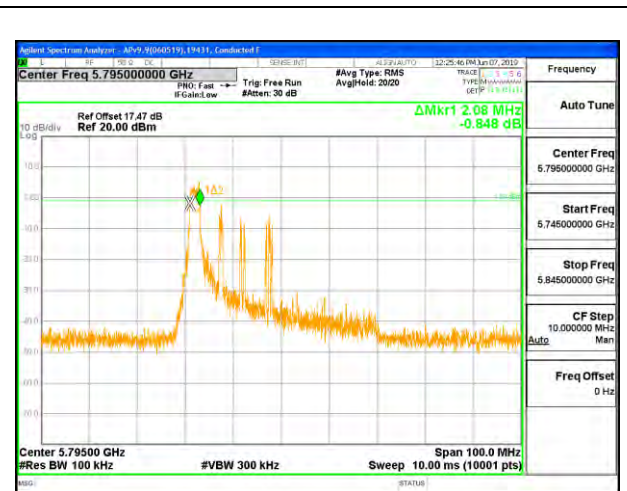


LOW CHANNEL ANTENNA 5

HIGH CHANNEL



HIGH CHANNEL ANTENNA 6



HIGH CHANNEL ANTENNA 5

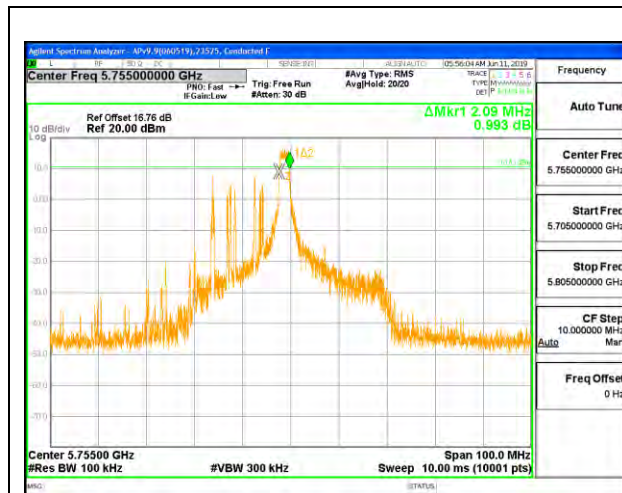
CHANNEL 142

See note on section 8.4 CHANNEL 142 ANTENNA 6	See note on section 8.4 CHANNEL 142 ANTENNA 5
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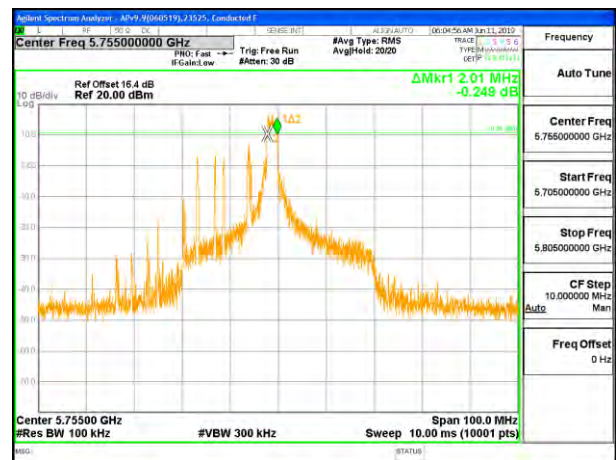
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 8

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.090	2.010	0.5
High	5795	2.040	2.070	0.5

LOW CHANNEL

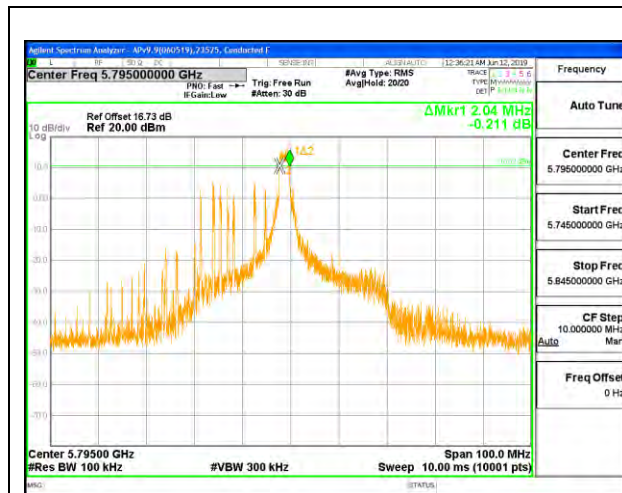


LOW CHANNEL ANTENNA 6

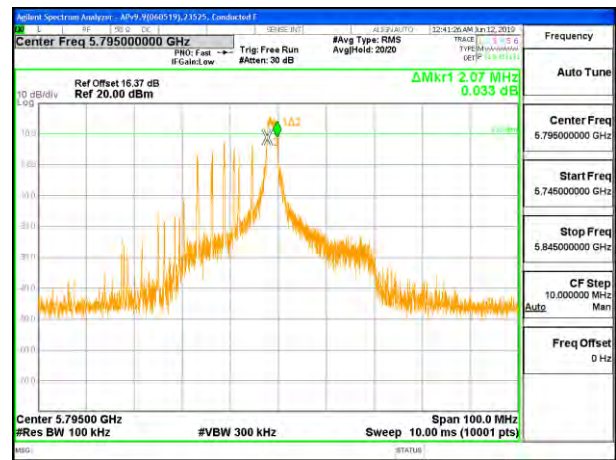


LOW CHANNEL ANTENNA 5

HIGH CHANNEL



HIGH CHANNEL ANTENNA 6



HIGH CHANNEL ANTENNA 5

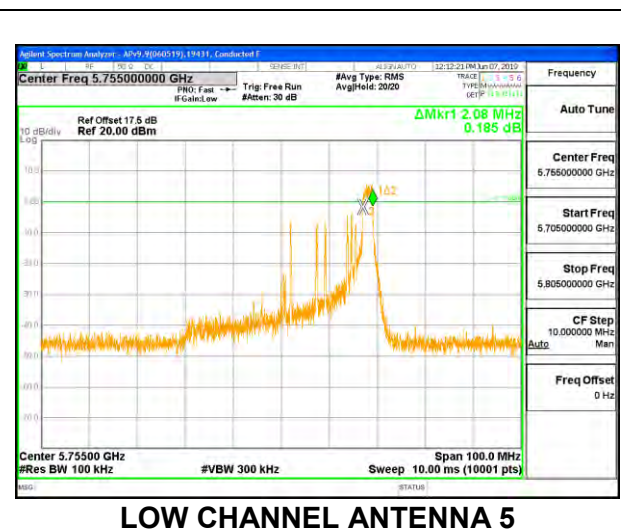
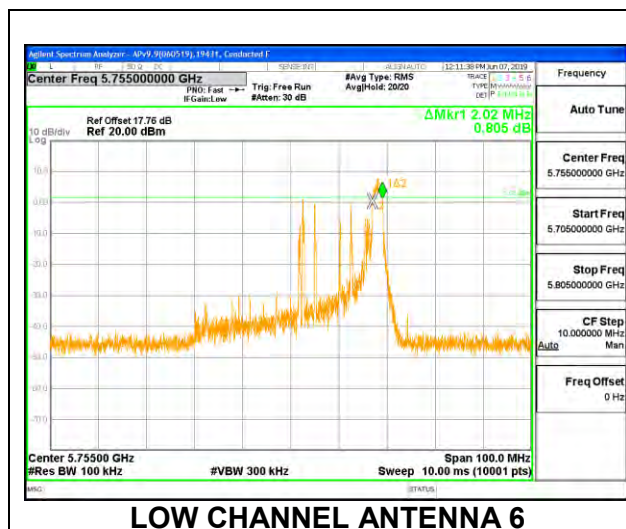
CHANNEL 142

See note on section 8.4 CHANNEL 142 ANTENNA 6	See note on section 8.4 CHANNEL 142 ANTENNA 5
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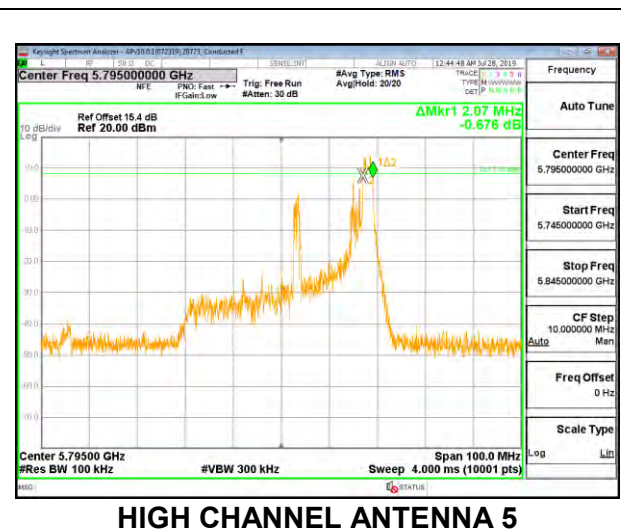
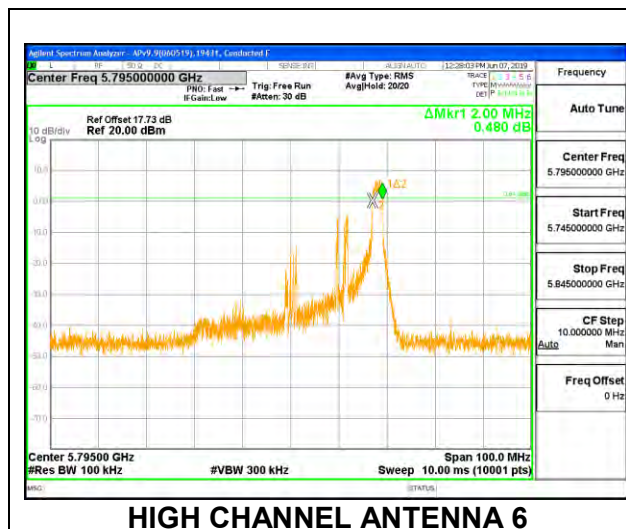
2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 17

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Low	5755	2.020	2.080	0.5
High	5795	2.000	2.070	0.5
142	5710	2.000	2.010	0.5

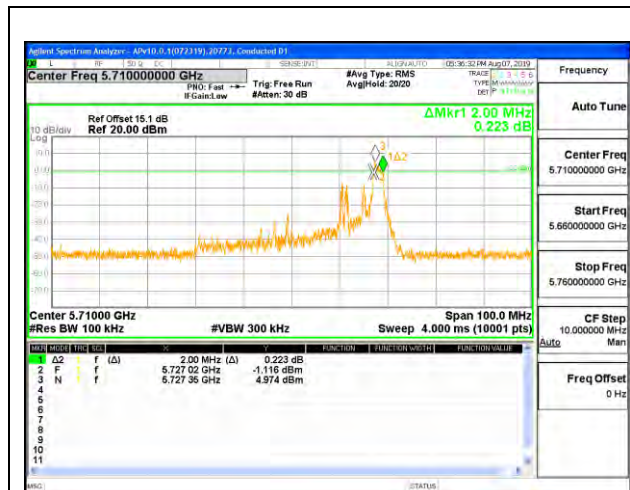
LOW CHANNEL



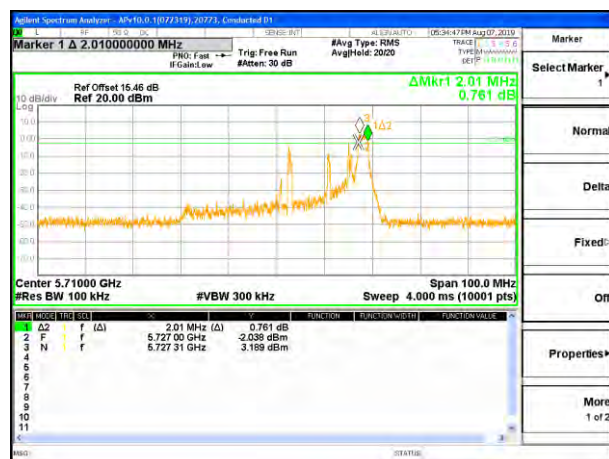
HIGH CHANNEL



CHANNEL 142



CHANNEL 142 ANTENNA 6

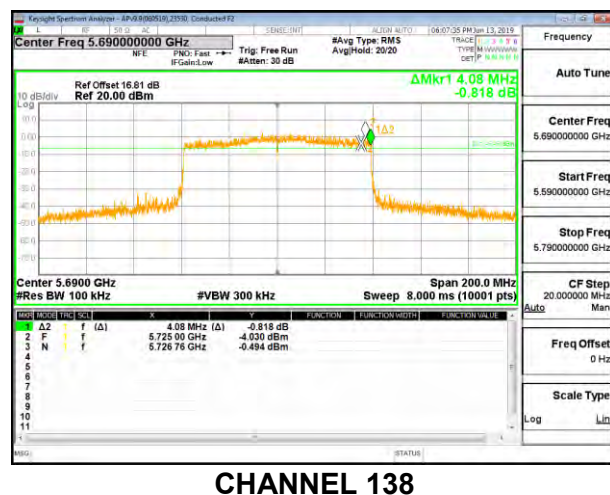
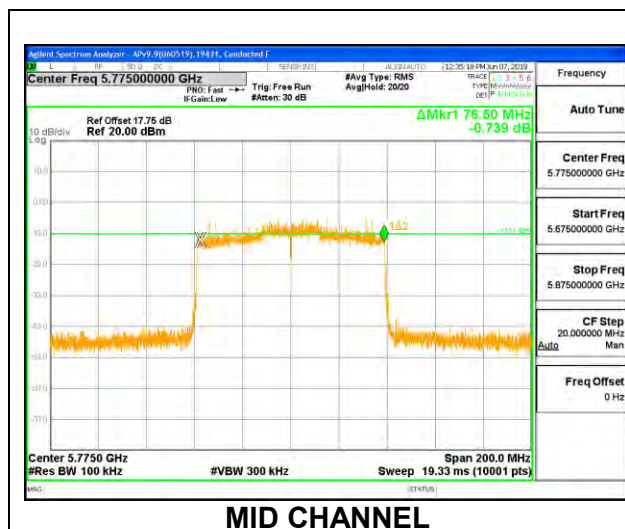


CHANNEL 142 ANTENNA 5

8.4.6. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

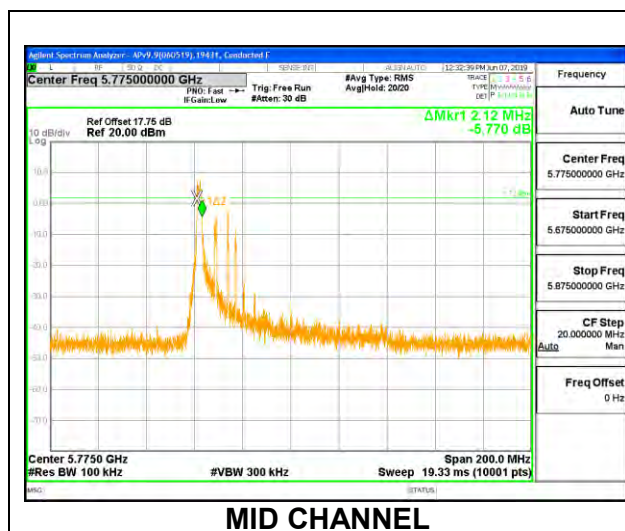
1TX Antenna 6 MODE – 996-Tones, RU Index 67

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	76.500	0.5
138	5690	4.080	0.5



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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.120	0.5

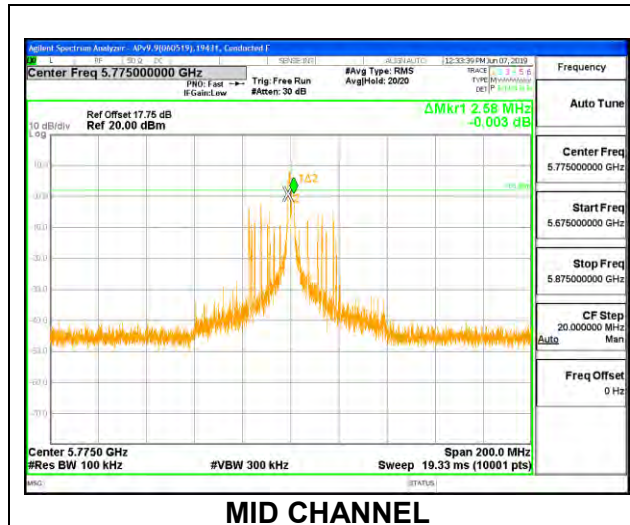


See note on section 8.4

CHANNEL 138

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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.580	0.5

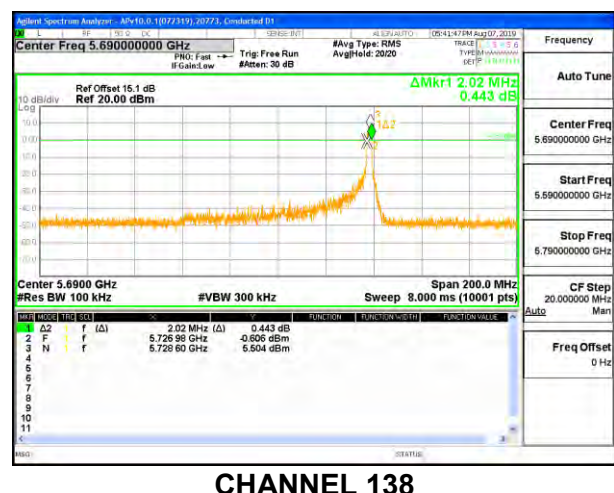
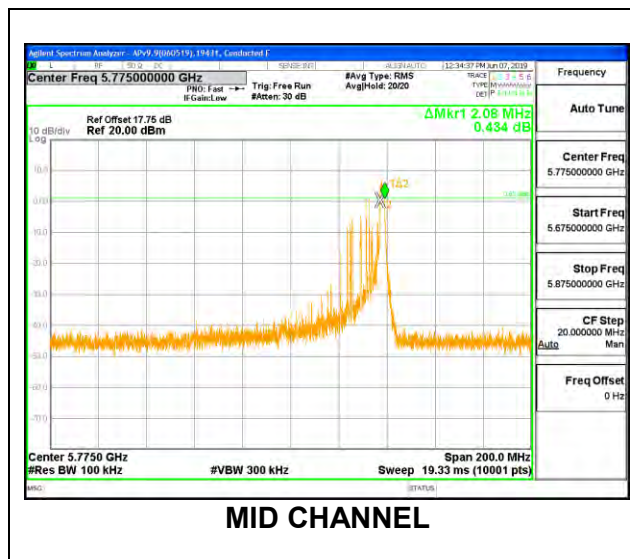


See note on section 8.4

CHANNEL 138

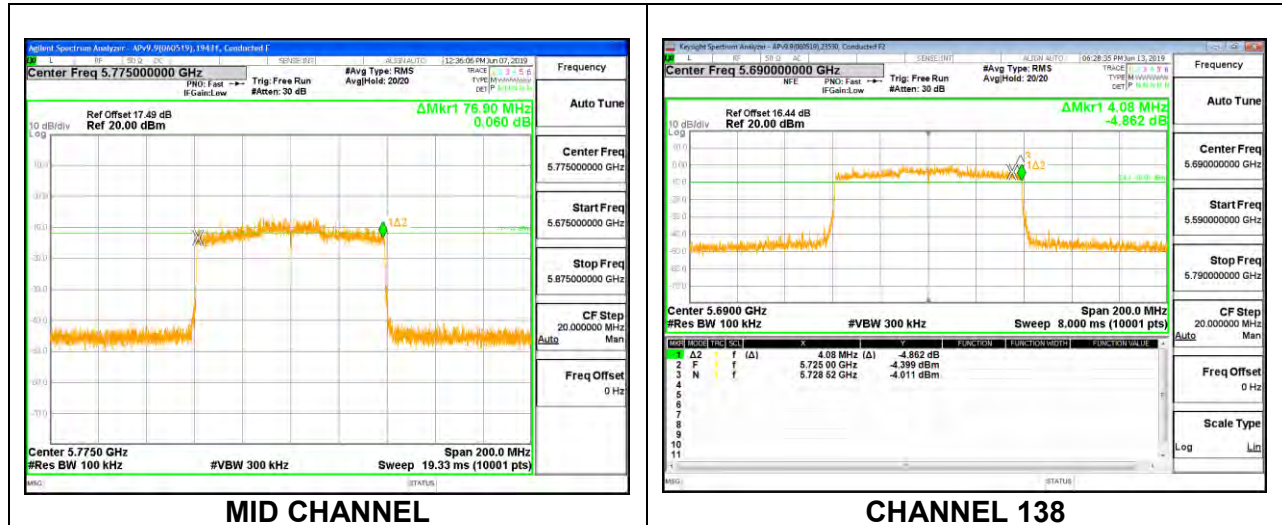
1TX Antenna 6 MODE – 26-Tones, RU Index 36

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	2.080	0.5
138	5690	2.020	0.5



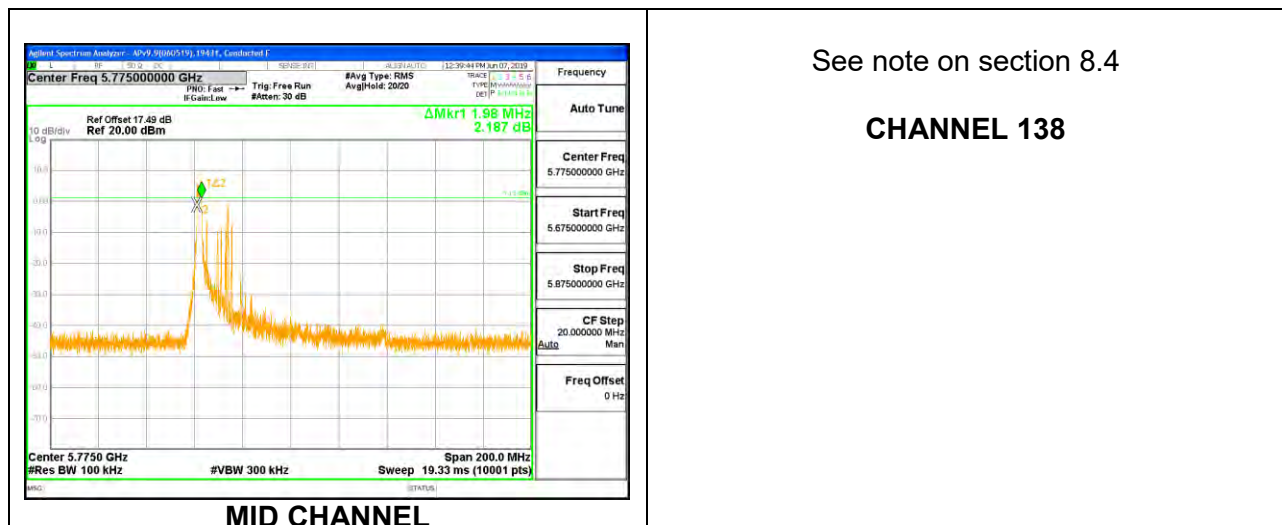
1TX Antenna 5 MODE – 996-Tones, RU Index 67

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	76.900	0.5
138	5690	4.080	0.5



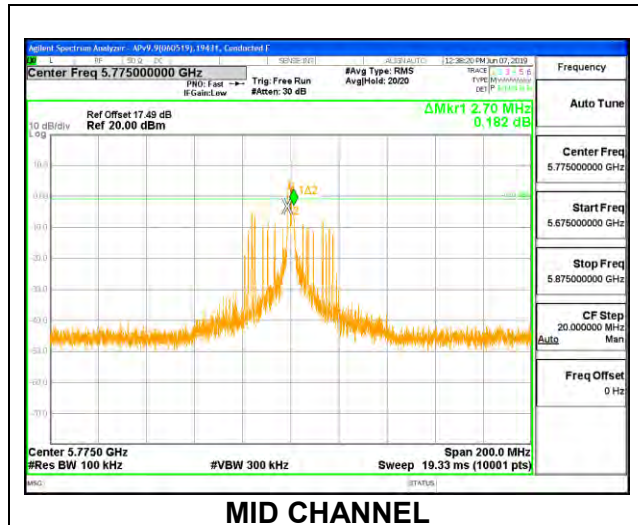
1TX Antenna 5 MODE – 26-Tones, RU Index 0

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	1.980	0.5



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

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	2.700	0.5

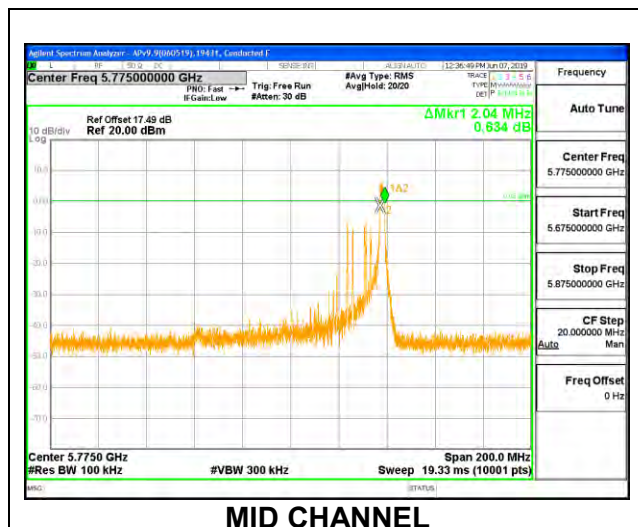


See note on section 8.4

CHANNEL 138

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

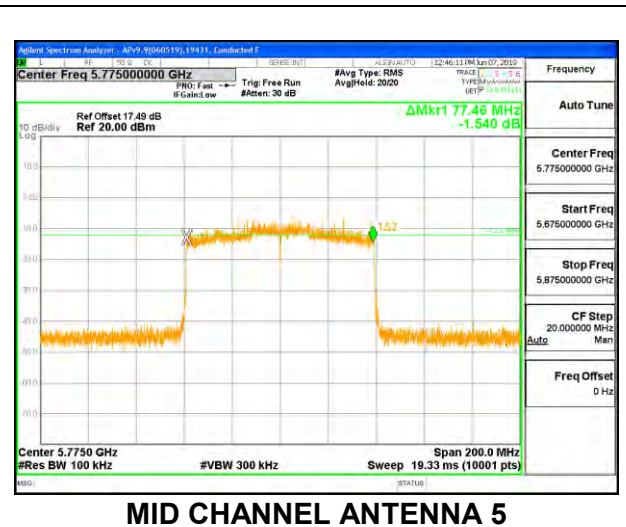
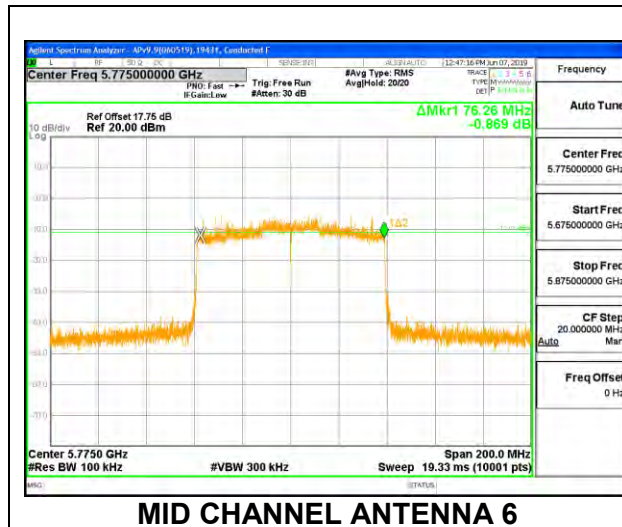
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Mid	5775	2.040	0.5
138	5690	2.080	0.5



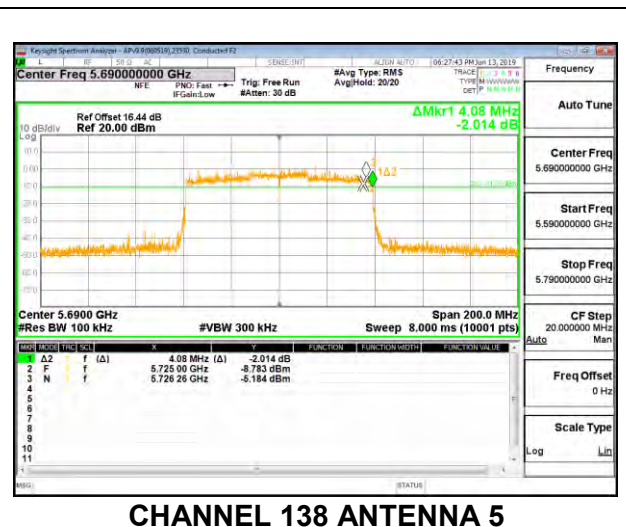
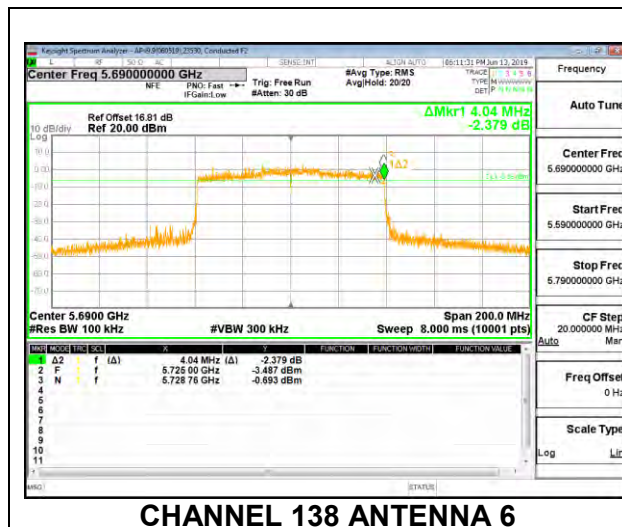
2TX Antenna 6 + Antenna 5 OFDMA MODE – 996-Tones, RU Index 67

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	76.260	77.460	0.5
138	5690	4.040	4.080	0.5

MID CHANNEL



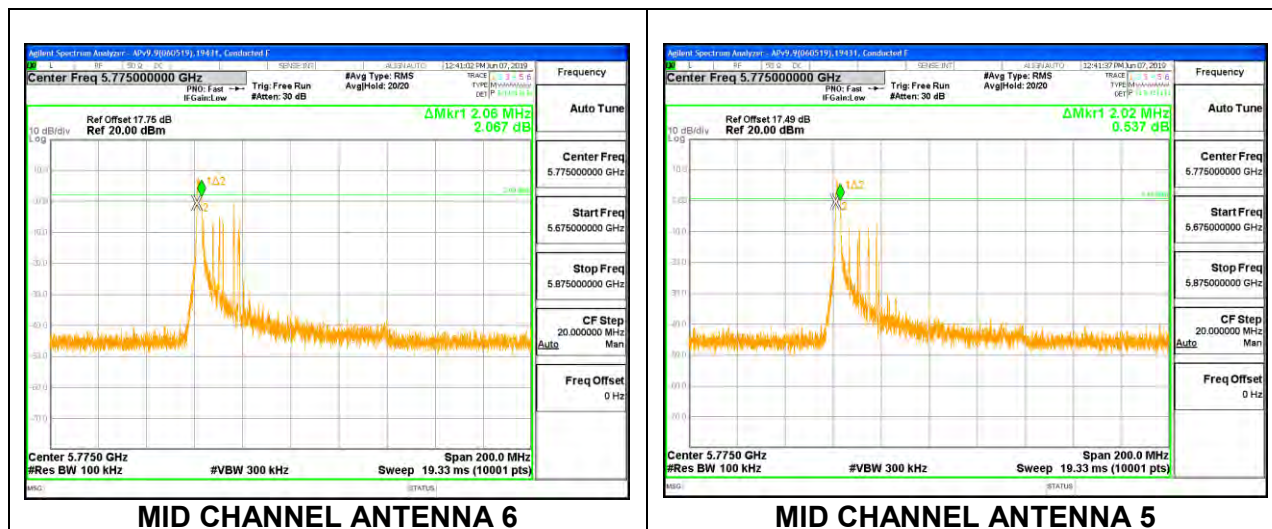
CHANNEL 138



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

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.060	2.020	0.5

MID CHANNEL



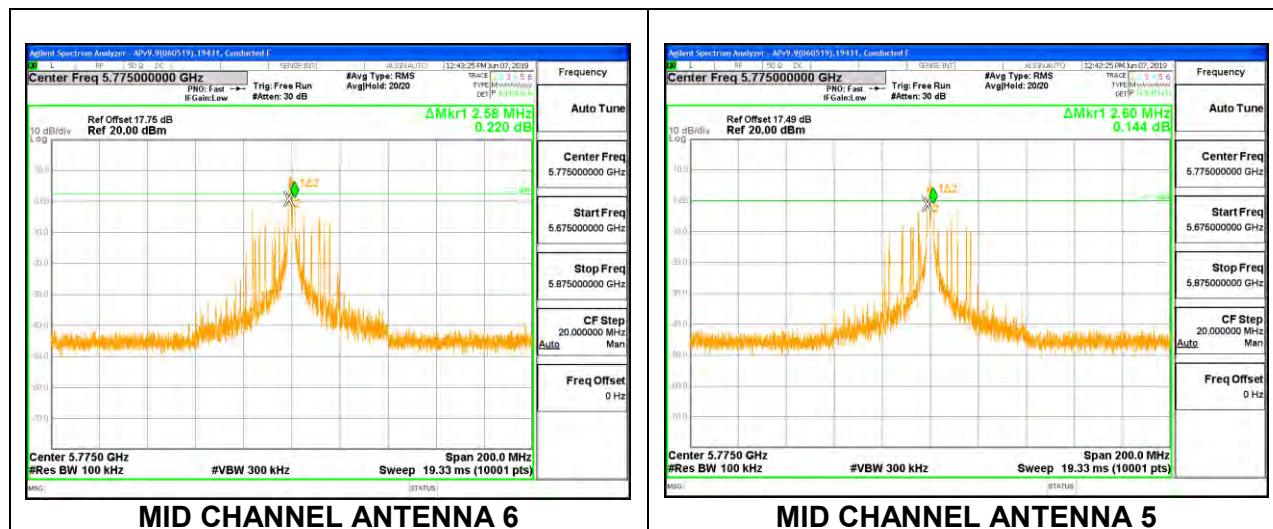
CHANNEL 138

See note on section 8.4 CHANNEL 138 ANTENNA 6	See note on section 8.4 CHANNEL 138 ANTENNA 5
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2TX Antenna 6 + Antenna 5 OFDMA MODE – 26-Tones, RU Index 18

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.580	2.600	0.5

MID CHANNEL



CHANNEL 138

See note on section 8.4 CHANNEL 138 ANTENNA 6	See note on section 8.4 CHANNEL 138 ANTENNA 5
--	--

Channel	Frequency (MHz)	6 dB BW Antenna 6 (MHz)	6 dB BW Antenna 5 (MHz)	Minimum Limit (MHz)
Mid	5775	2.060	2.040	0.5
138	5690	2.020	2.060	0.5

MID CHANNEL ANTENNA 6

MID CHANNEL ANTENNA 5

Channel 138 Antenna 6

Agilent Spectrum Analyzer: Adv10.0.1077319.70773, Conducted 01

Center Freq 5.690000000 GHz

Ref Offset 15.1 dB
Ref 20.00 dBm

ΔMkr1 2.02 MHz
0.465 dB

Center Freq 5.690000000 GHz

Start Freq 5.690000000 GHz

Stop Freq 5.790000000 GHz

Center 5.6900 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 8.000 ms (10001 pts)

CF Step 20.000000 MHz

Freq Offset 0 Hz

Channel 138 Antenna 5

Agilent Spectrum Analyzer: Adv10.0.1077319.70773, Conducted 01

Center Freq 5.690000000 GHz

Ref Offset 15.45 dB
Ref 20.00 dBm

ΔMkr1 2.06 MHz
0.777 dB

Center Freq 5.690000000 GHz

Start Freq 5.590000000 GHz

Stop Freq 5.790000000 GHz

Center 5.6900 GHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 8.000 ms (10001 pts)

CF Step 20.000000 MHz

Freq Offset 0 Hz

8.5. 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 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.b (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

For all straddle channels, full bandwidth power is reported in the 5.6GHz section. The combined 5.6GHz and 5.8GHz power already passed the worst case 5.6GHz 24dBm limit, therefore there is no need to provide the 5.8GHz power.

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	-1.3	-5.8	-2.99	-0.25
5.3	-2.3	-7.1	-4.07	-1.36
5.6	-3.1	-5.6	-4.17	-1.25
5.8	-5.2	-9.4	-6.81	-4.04

RESULTS

8.5.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-1.30	24.00	11.00
Mid	5200	-1.30	24.00	11.00
High	5240	-1.30	24.00	11.00

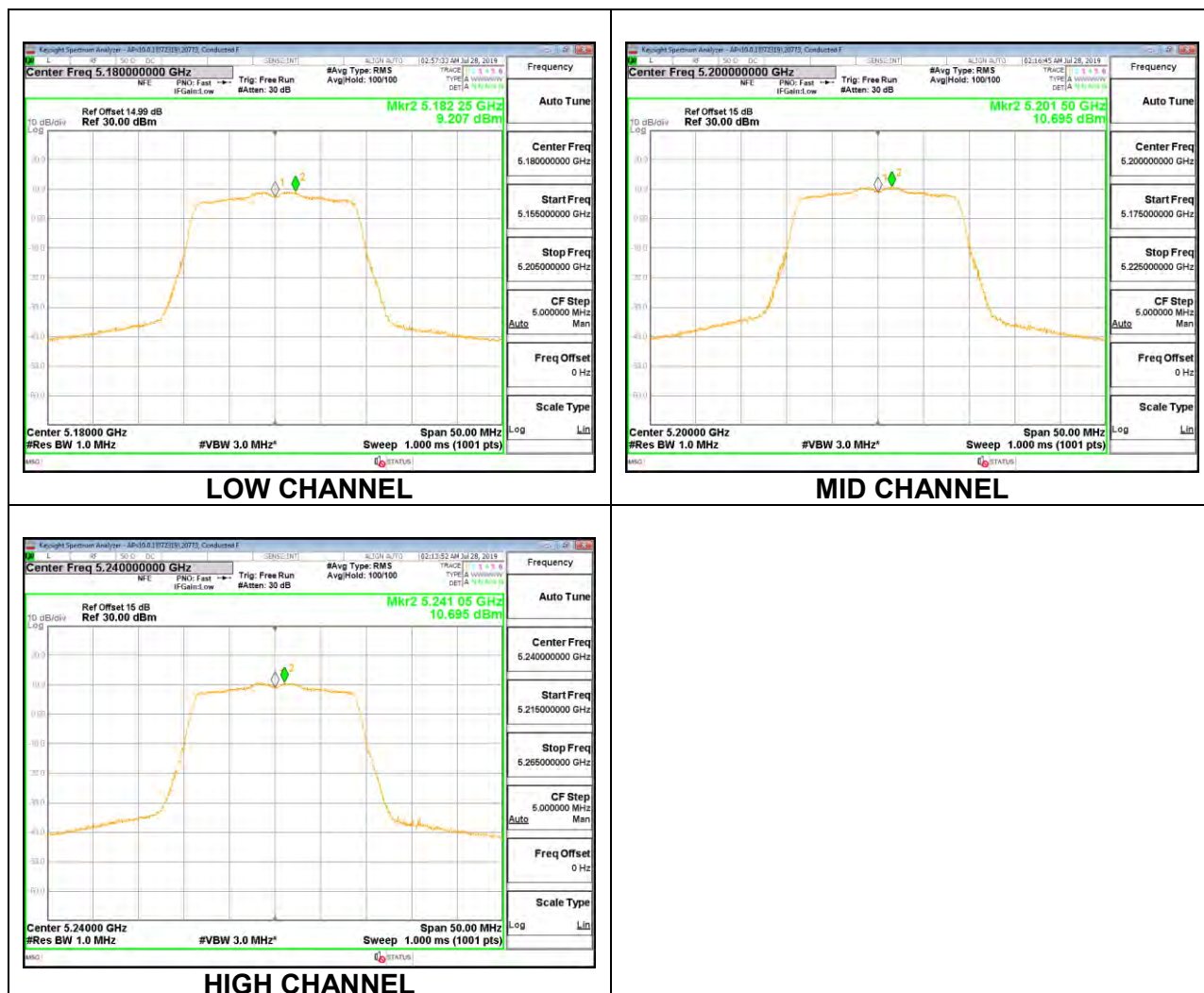
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.80	18.80	24.00	-5.20
Mid	5200	20.77	20.77	24.00	-3.23
High	5240	20.81	20.81	24.00	-3.19

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.21	9.21	11.00	-1.79
Mid	5200	10.70	10.70	11.00	-0.31
High	5240	10.70	10.70	11.00	-0.31



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-5.80	24.00	11.00
Mid	5200	-5.80	24.00	11.00
High	5240	-5.80	24.00	11.00

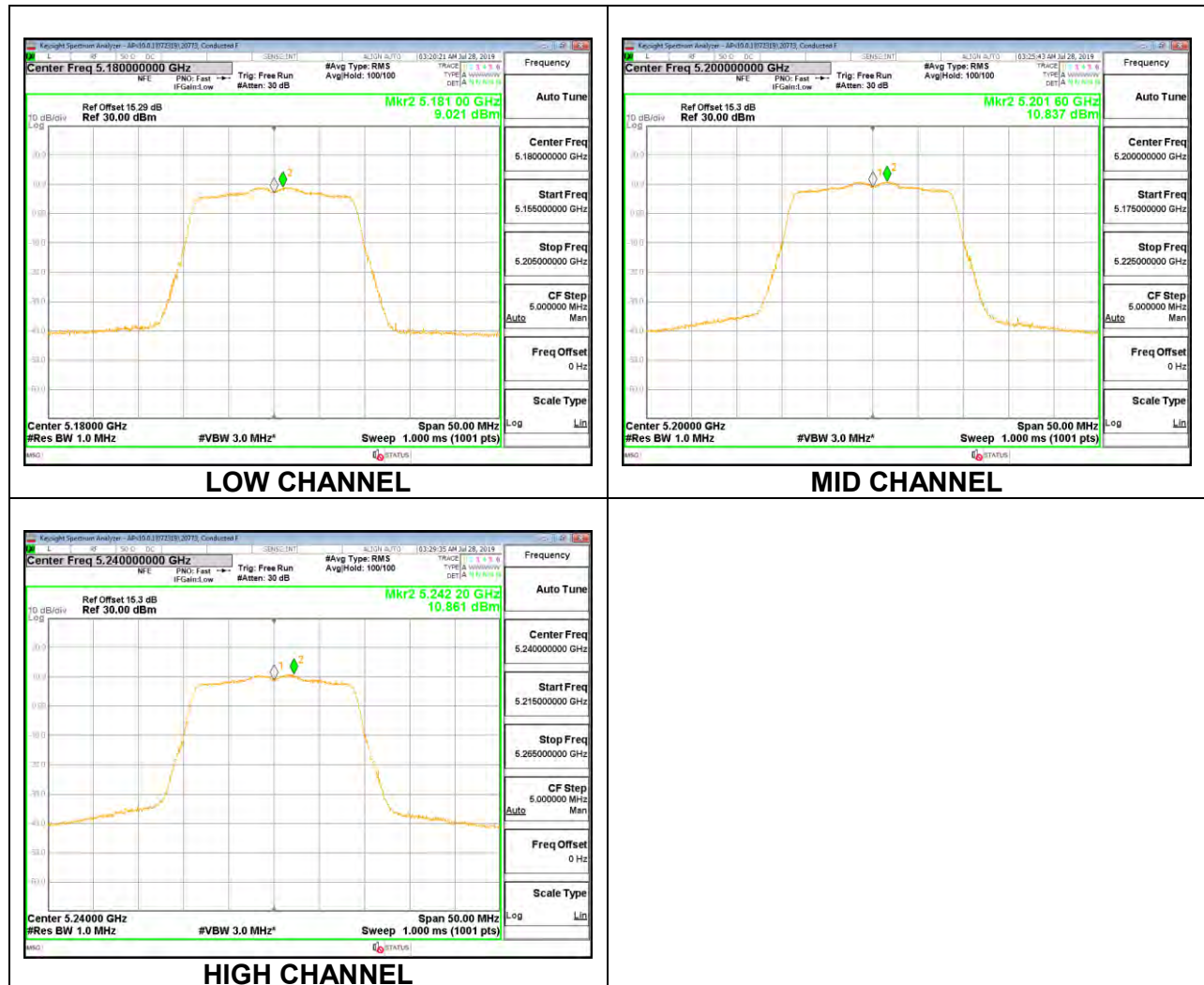
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	18.91	18.91	24.00	-5.09
Mid	5200	20.74	20.74	24.00	-3.26
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	9.02	9.02	11.00	-1.98
Mid	5200	10.84	10.84	11.00	-0.16
High	5240	10.86	10.86	11.00	-0.14



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

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	-2.99	-0.25	24.00	11.00
Mid	5200	-2.99	-0.25	24.00	11.00
High	5240	-2.99	-0.25	24.00	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)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	17.90	17.94	20.93	24.00	-3.07
Mid	5200	17.88	17.91	20.91	24.00	-3.09
High	5240	17.89	17.92	20.92	24.00	-3.08

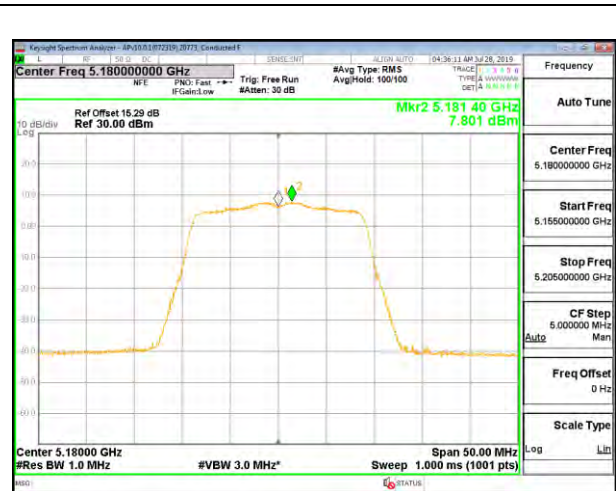
PSD Results

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	7.80	7.80	10.81	11.00	-0.19
Mid	5200	7.62	7.81	10.73	11.00	-0.27
High	5240	7.72	7.79	10.76	11.00	-0.24

LOW CHANNEL

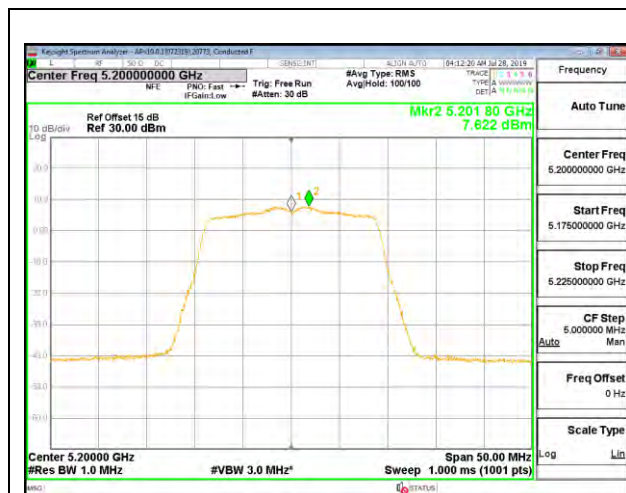


LOW CHANNEL ANTENNA 6



LOW CHANNEL ANTENNA 5

MID CHANNEL

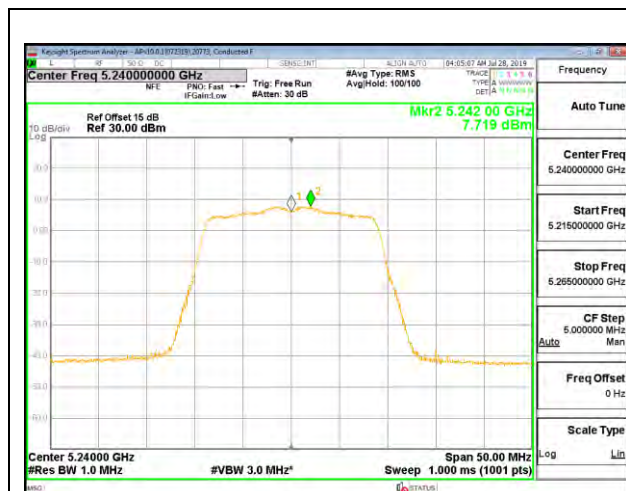


MID CHANNEL ANTENNA 6



MID CHANNEL ANTENNA 5

HIGH CHANNEL



HIGH CHANNEL ANTENNA 6



HIGH CHANNEL ANTENNA 5

8.5.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-1.30	24.00	11.00
High	5230	-1.30	24.00	11.00

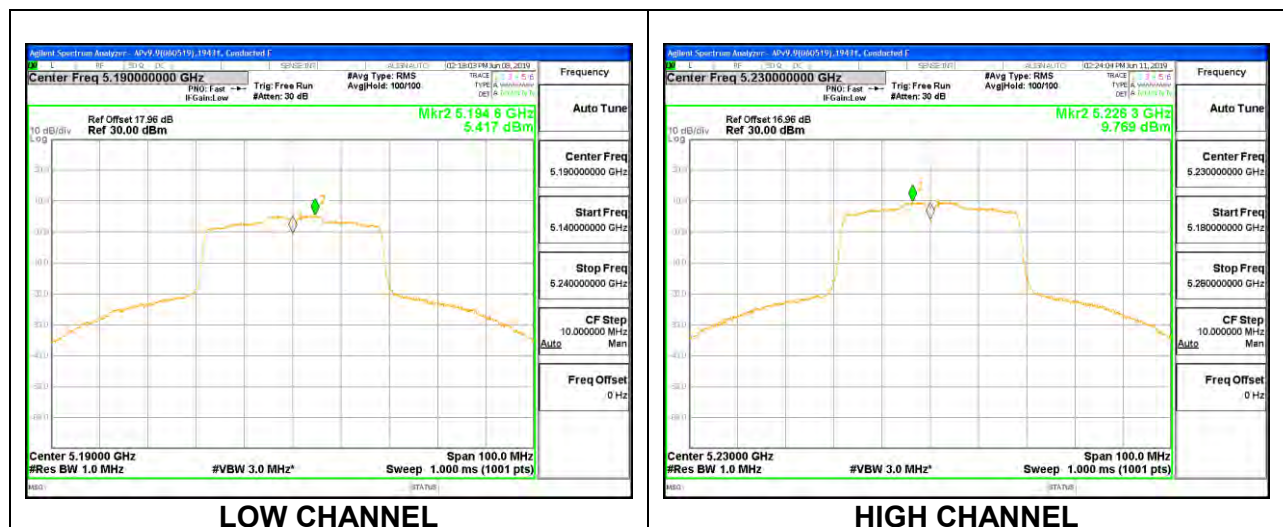
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.40	17.40	24.00	-6.60
High	5230	21.40	21.40	24.00	-2.60

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	5.42	5.54	11.00	-5.46
High	5230	9.77	9.89	11.00	-1.11



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	-5.80	24.00	11.00
High	5230	-5.80	24.00	11.00

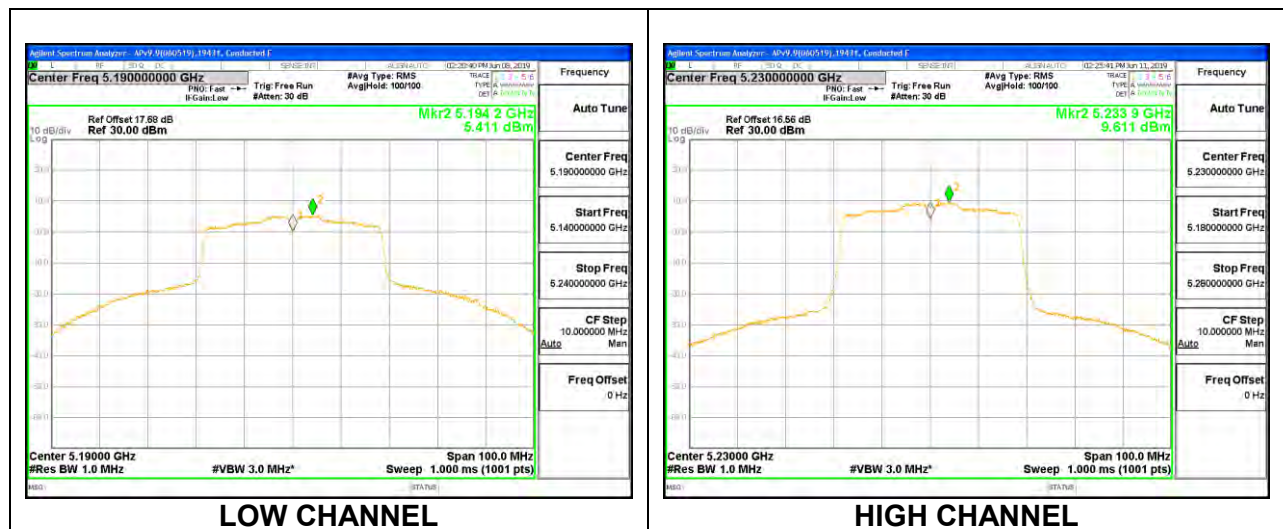
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	17.46	17.46	24.00	-6.54
High	5230	21.38	21.38	24.00	-2.62

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	5.41	5.53	11.00	-5.47
High	5230	9.61	9.73	11.00	-1.27



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

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	-2.99	-0.25	24.00	11.00
High	5230	-2.99	-0.25	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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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	16.79	16.88	19.85	24.00	-4.15
High	5230	19.98	19.99	23.00	24.00	-1.00

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	5.06	4.85	8.06	11.00	-2.94
High	5230	7.65	7.48	10.67	11.00	-0.33

LOW CHANNEL ANTENNA 6

LOW CHANNEL ANTENNA 5

HIGH CHANNEL ANTENNA 6

HIGH CHANNEL ANTENNA 5

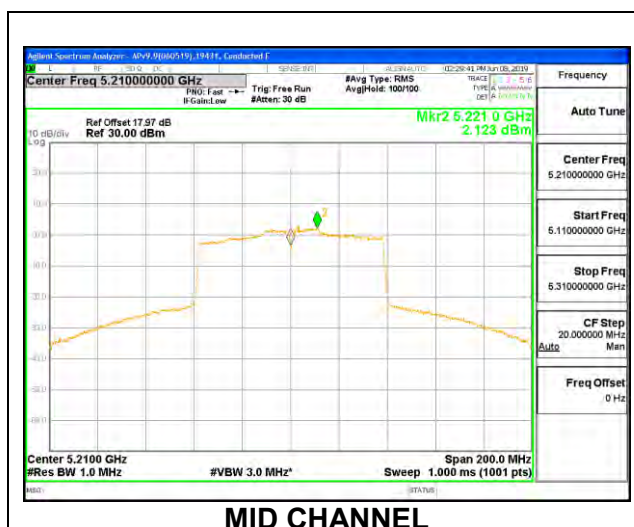
1TX Antenna 6 MODE (FCC) MOBILE

Channel	Frequency	Directional Gain	Power Limit	PSD Limit
	(MHz)	(dBi)	(dBm)	(dBm/ 1MHz)
Mid	5210	-1.30	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
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Channel	Frequency	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	16.78	16.78	24.00	-7.22

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	2.12	2.31	11.00	-8.69



1TX Antenna 5 MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-5.80	24.00	11.00

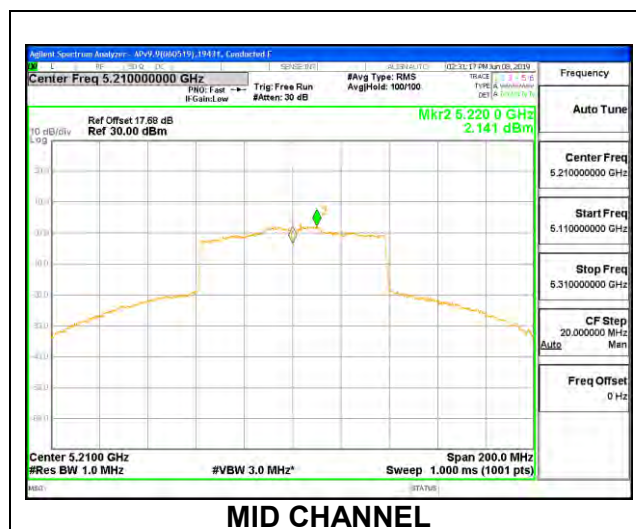
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	16.74	16.74	24.00	-7.26

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	2.14	2.33	11.00	-8.67



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

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	-2.99	-0.25	24.00	11.00

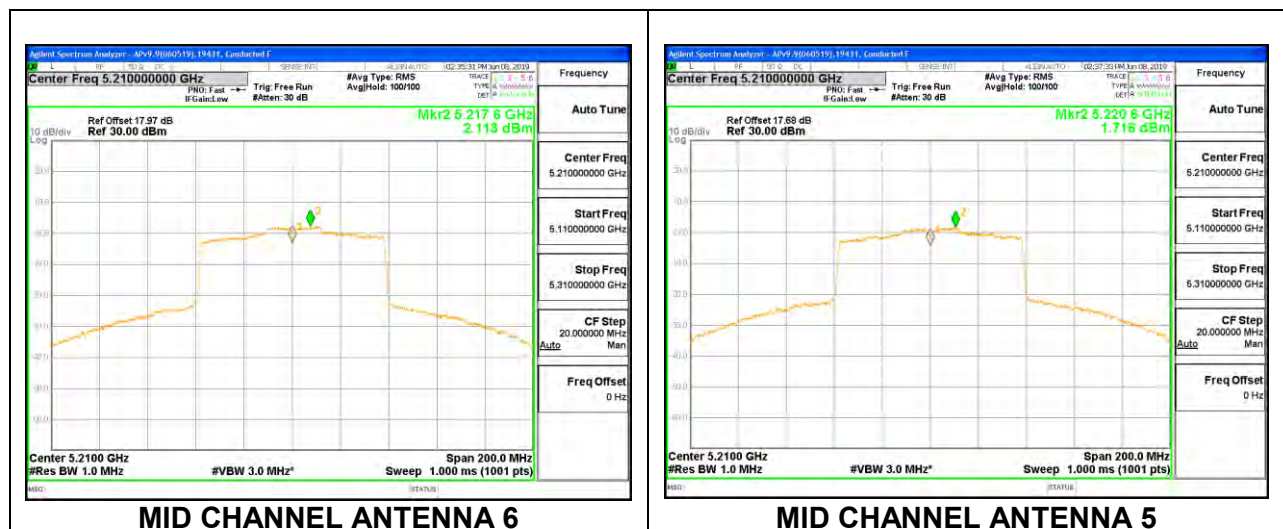
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Antenna 6 Meas Power (dBm)	Antenna 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	15.79	15.87	18.84	24.00	-5.16

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)
Mid	5210	2.11	1.72	5.12	11.00	-5.88



8.5.4. 802.11ax HE20 MODE IN THE 5.2 GHz BAND

1TX Antenna 6 MODE – 242-Tones, RU Index 61 (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-1.30	24.00	11.00
Mid	5200	-1.30	24.00	11.00
High	5240	-1.30	24.00	11.00

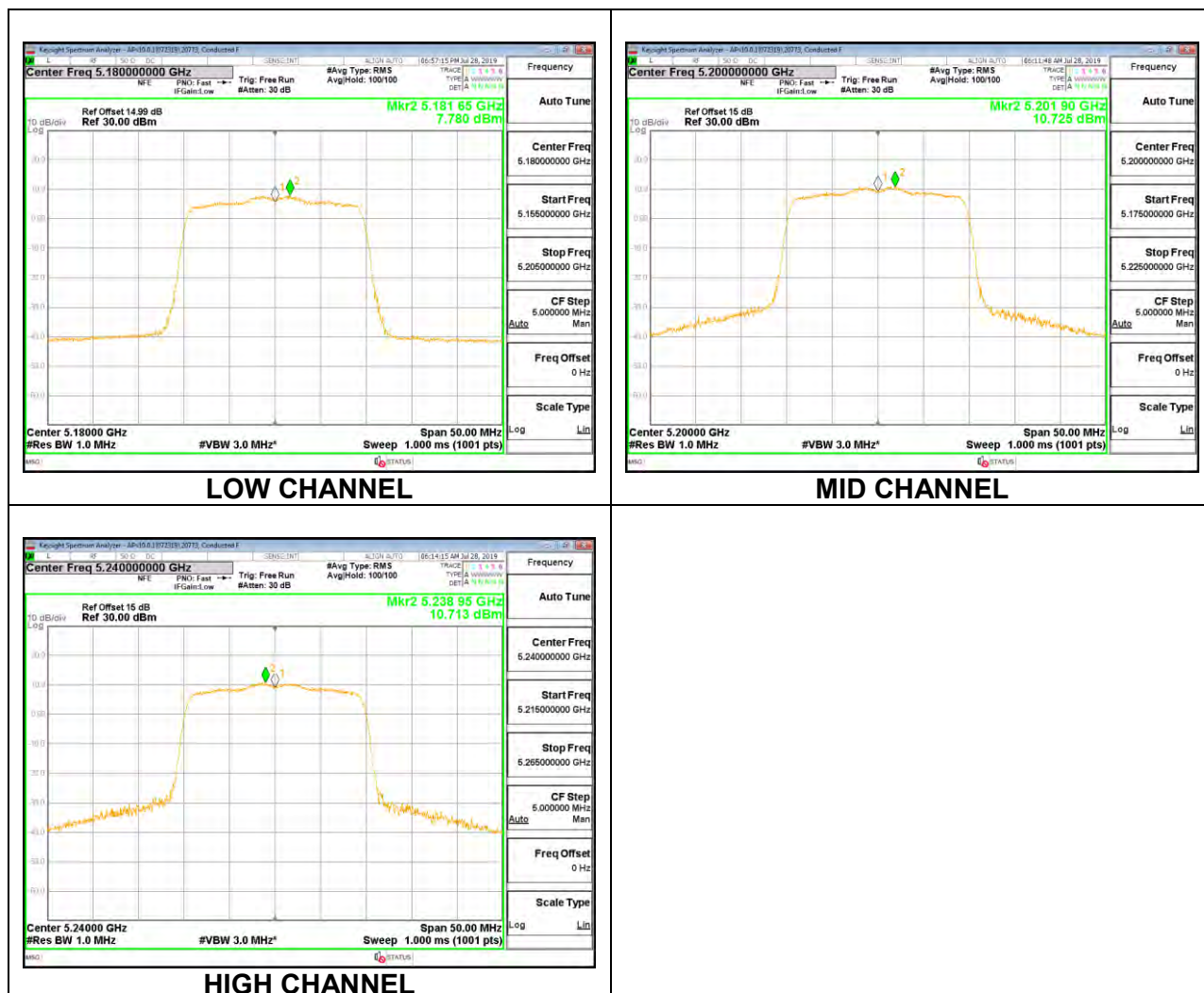
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	17.71	17.71	24.00	-6.29
Mid	5200	20.89	20.89	24.00	-3.11
High	5240	20.79	20.79	24.00	-3.21

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	7.78	7.78	11.00	-3.22
Mid	5200	10.73	10.73	11.00	-0.28
High	5240	10.71	10.71	11.00	-0.29



1TX Antenna 6 MODE – 26-Tones, RU Index 0 (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-1.30	24.00	11.00
Mid	5200	-1.30	24.00	11.00
High	5240	-1.30	24.00	11.00

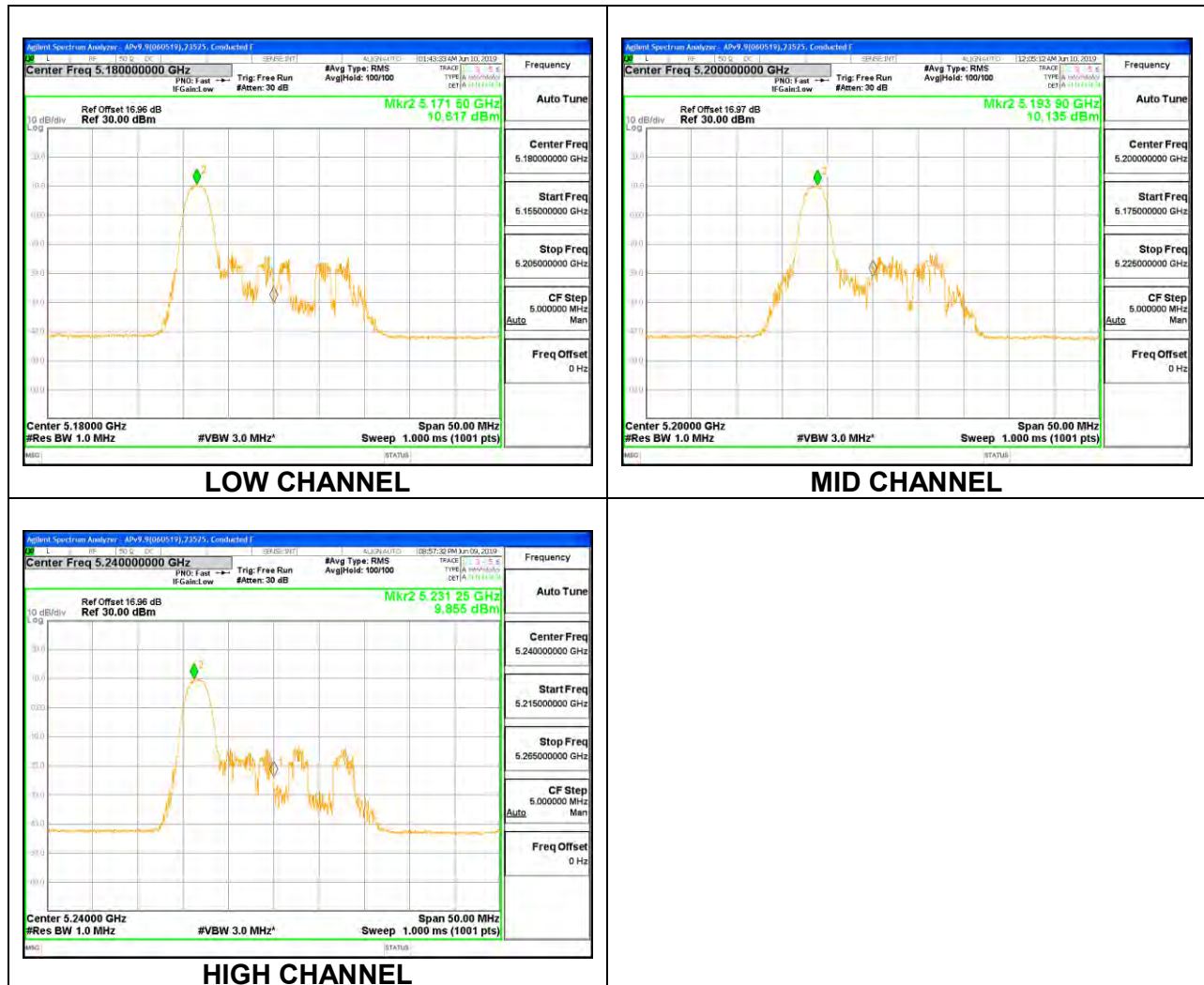
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	11.87	11.87	24.00	-12.13
Mid	5200	11.82	11.82	24.00	-12.18
High	5240	11.90	11.90	24.00	-12.10

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	10.62	10.62	11.00	-0.38
Mid	5200	10.14	10.14	11.00	-0.87
High	5240	9.86	9.86	11.00	-1.15



1TX Antenna 6 MODE – 26-Tones, RU Index 4 (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-1.30	24.00	11.00
Mid	5200	-1.30	24.00	11.00
High	5240	-1.30	24.00	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	11.82	11.82	24.00	-12.18
Mid	5200	11.88	11.88	24.00	-12.12
High	5240	11.79	11.79	24.00	-12.21

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.80	9.80	11.00	-1.20
Mid	5200	9.27	9.27	11.00	-1.73
High	5240	8.98	8.98	11.00	-2.02



1TX Antenna 6 MODE – 26-Tones, RU Index 8 (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-1.30	24.00	11.00
Mid	5200	-1.30	24.00	11.00
High	5240	-1.30	24.00	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	11.83	11.83	24.00	-12.17
Mid	5200	11.92	11.92	24.00	-12.08
High	5240	11.89	11.89	24.00	-12.11

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	10.87	10.87	11.00	-0.13
Mid	5200	10.69	10.69	11.00	-0.32
High	5240	9.82	9.82	11.00	-1.19



1TX Antenna 5 MODE – 242-Tones, RU Index 61 (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	-5.80	24.00	11.00
Mid	5200	-5.80	24.00	11.00
High	5240	-5.80	24.00	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	17.89	17.89	24.00	-6.11
Mid	5200	20.80	20.80	24.00	-3.20
High	5240	20.85	20.85	24.00	-3.15

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	7.79	7.79	11.00	-3.21
Mid	5200	10.65	10.65	11.00	-0.35
High	5240	10.63	10.63	11.00	-0.37