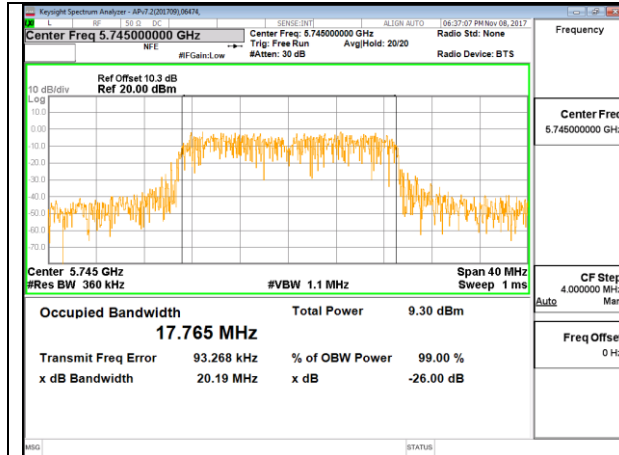
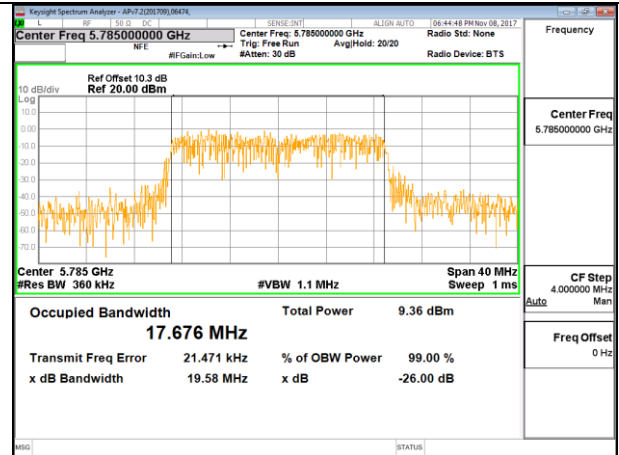


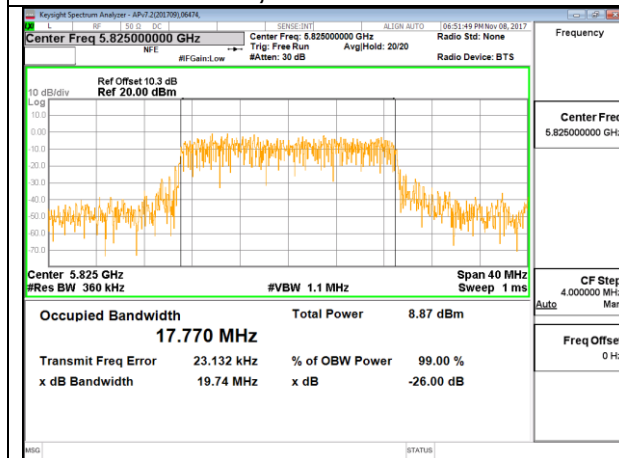
Channel	Frequency (MHz)	99% dB BW ANT1 (MHz)	99% dB BW ANT2 (MHz)
Low	5745	17.765	17.644
Mid	5785	17.676	17.610
High	5825	17.770	17.615



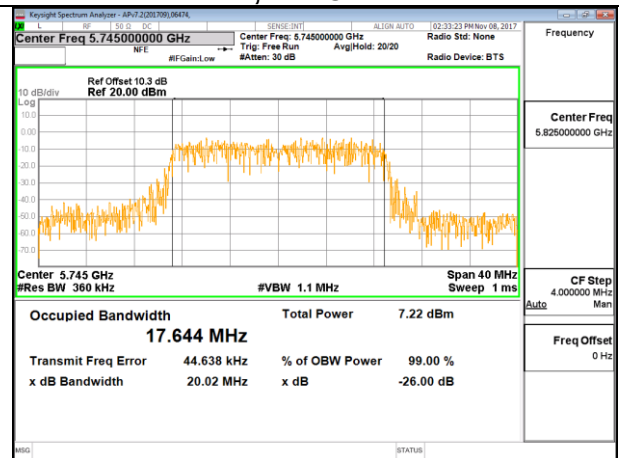
ANT 1, LOW CHANNEL



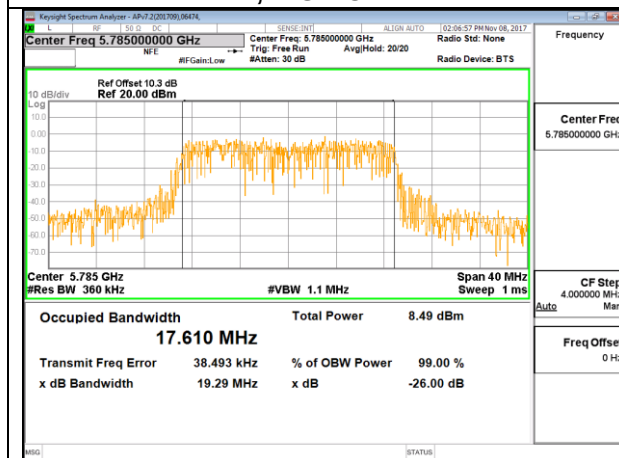
ANT 1, MID CHANNEL



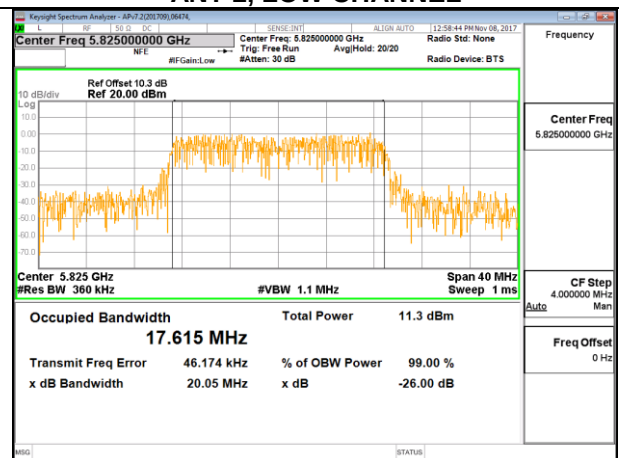
ANT 1, HIGH CHANNEL



ANT 2, LOW CHANNEL



ANT 2, MID CHANNEL



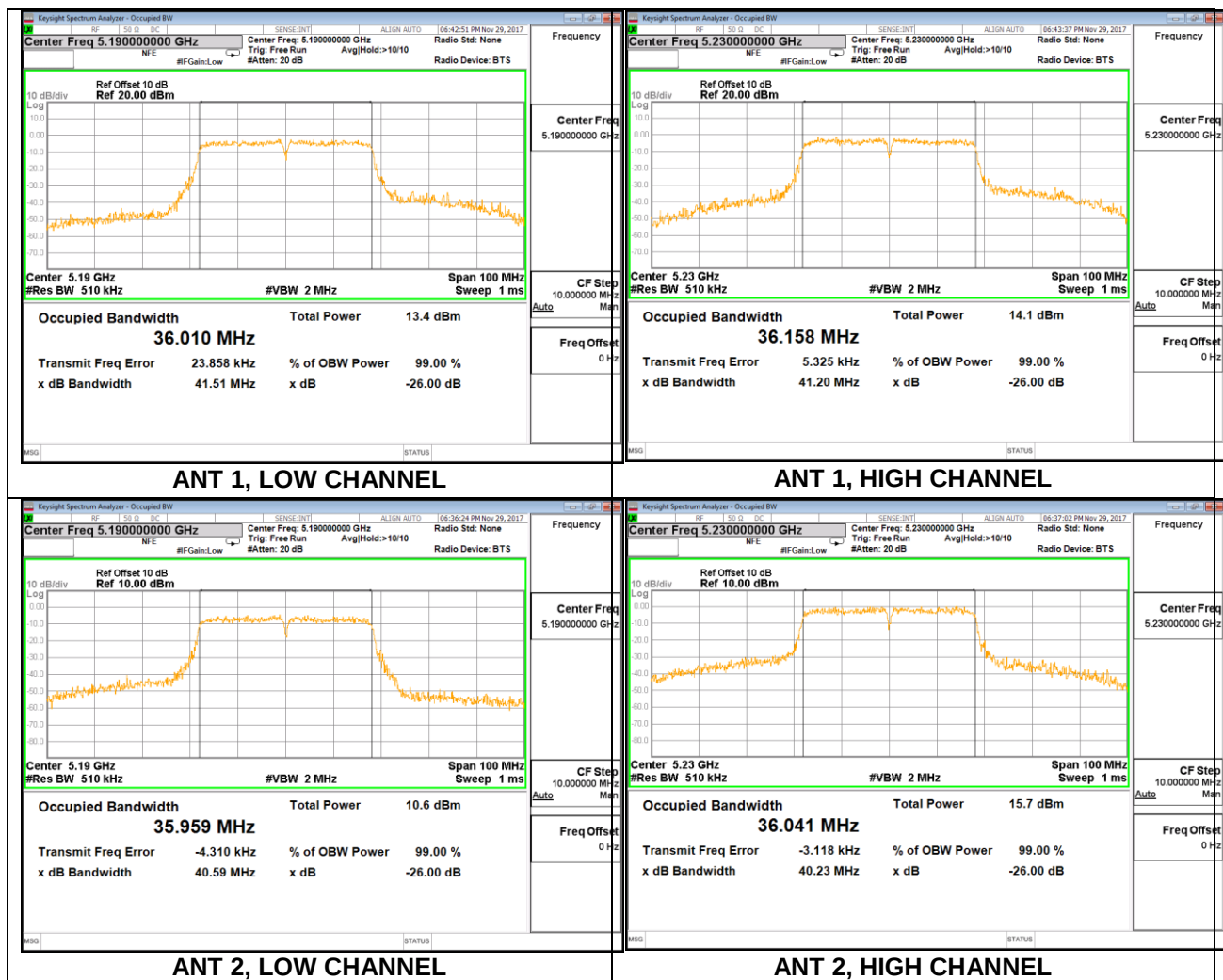
ANT 2, HIGH CHANNEL

6.2.5. 802.11ac HT40 CDD MODE

6.2.5.1. UNII-1 BAND

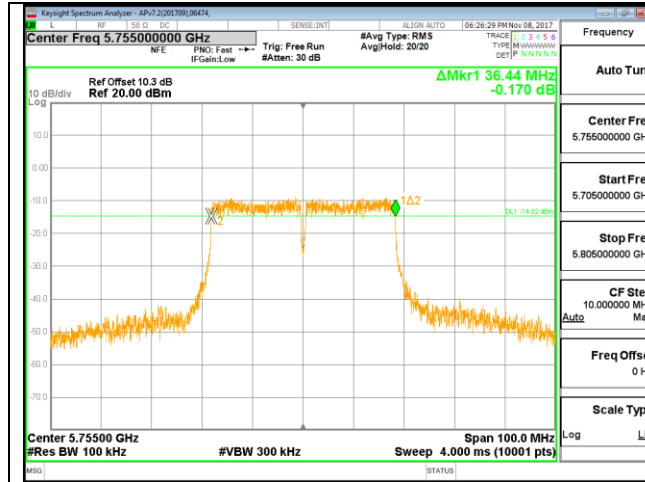
Channel	Frequency (MHz)	26 dB BW ANT1 (MHz)	26 dB BW ANT2 (MHz)
Low	5190	41.51	40.59
High	5230	41.20	40.23

Channel	Frequency (MHz)	99% dB BW ANT1 (MHz)	99% dB BW ANT2 (MHz)
Low	5190	36.010	35.959
High	5230	36.158	36.401

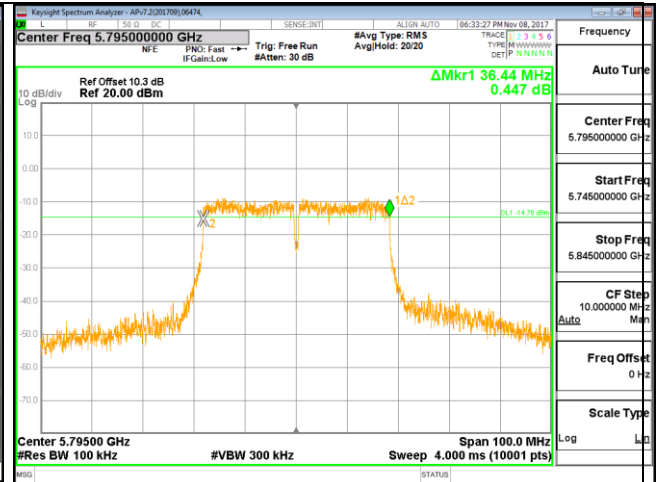


6.2.5.2. UNII-3 BAND

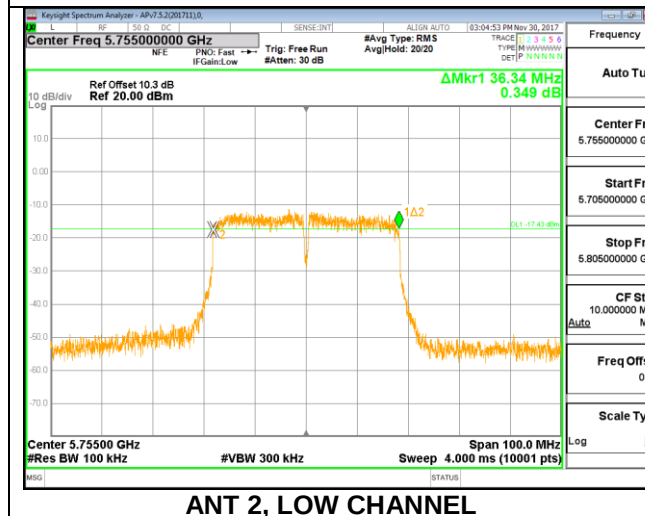
Channel	Frequency (MHz)	6 dB BW ANT1 (MHz)	6 dB BW ANT2 (MHz)	Limit (KHz)	Result
Low	5755	36.44	36.34	500	PASS
High	5795	36.44	36.33	500	PASS



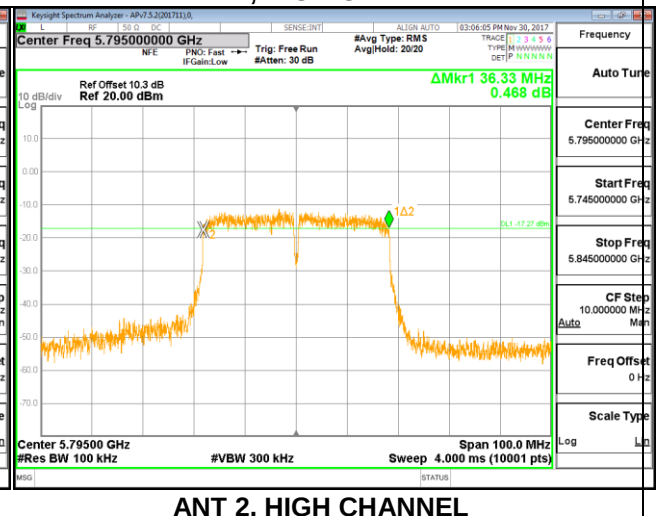
ANT 1, LOW CHANNEL



ANT 1, HIGH CHANNEL

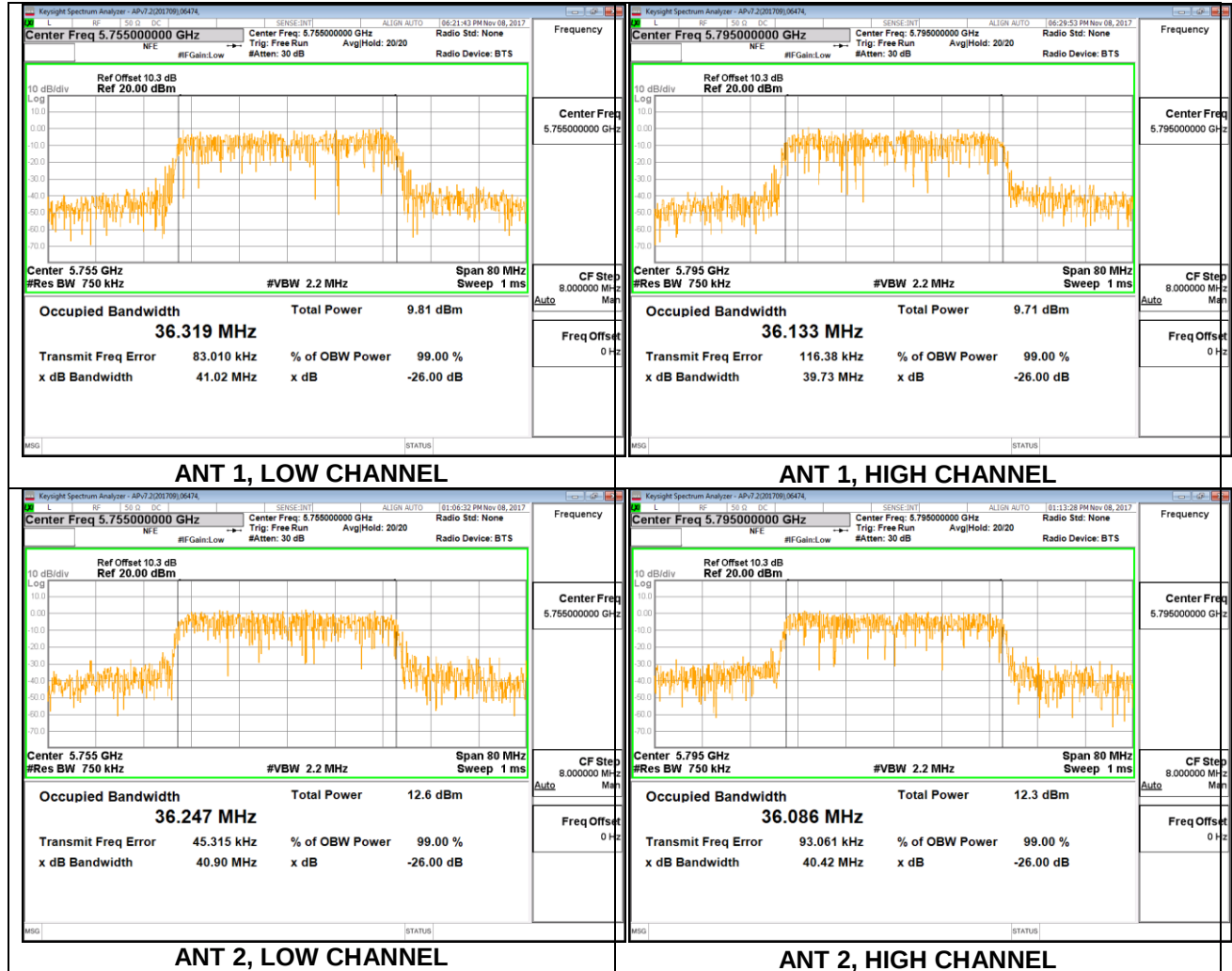


ANT 2, LOW CHANNEL



ANT 2, HIGH CHANNEL

Channel	Frequency (MHz)	99% dB BW ANT1 (MHz)	99% dB BW ANT2 (MHz)
Low	5755	36.319	36.247
High	5795	36.133	36.086

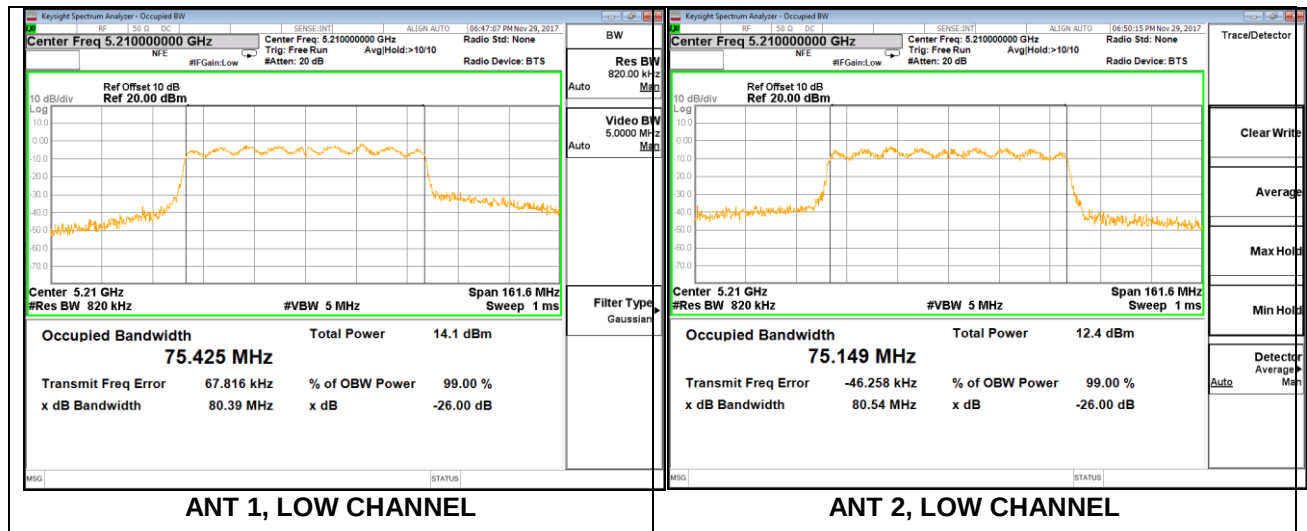


6.2.6. 802.11ac HT80 CDD MODE

6.2.6.1. UNII-1 BAND

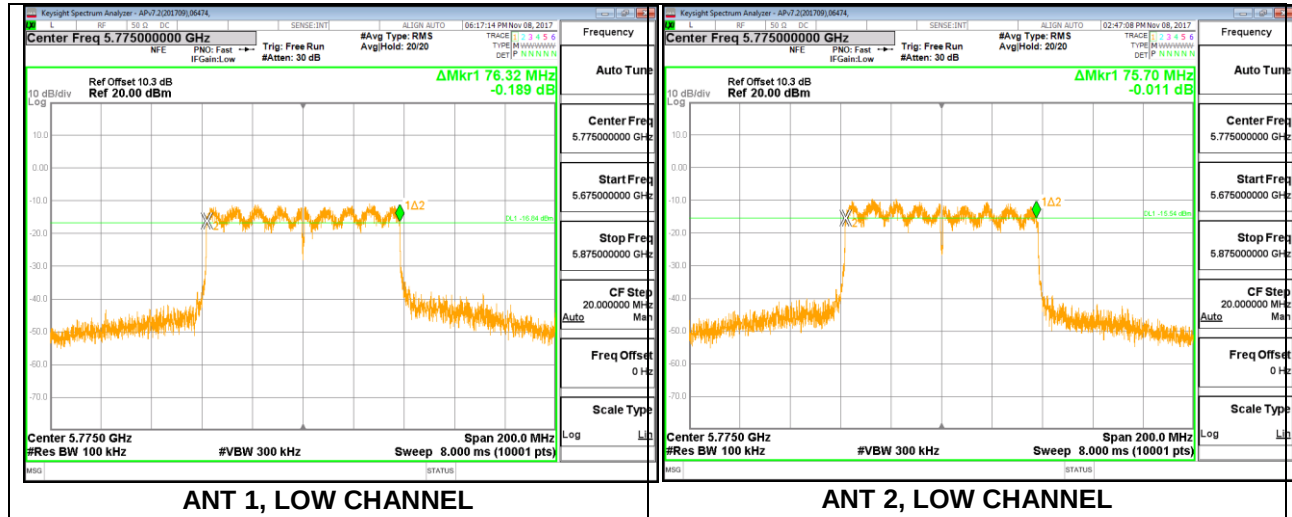
Channel	Frequency (MHz)	26 dB BW ANT1 (MHz)	26 dB BW ANT2 (MHz)
Low	5210	80.39	80.54

Channel	Frequency (MHz)	99% dB BW ANT1 (MHz)	99% dB BW ANT2 (MHz)
Low	5210	75.425	75.149

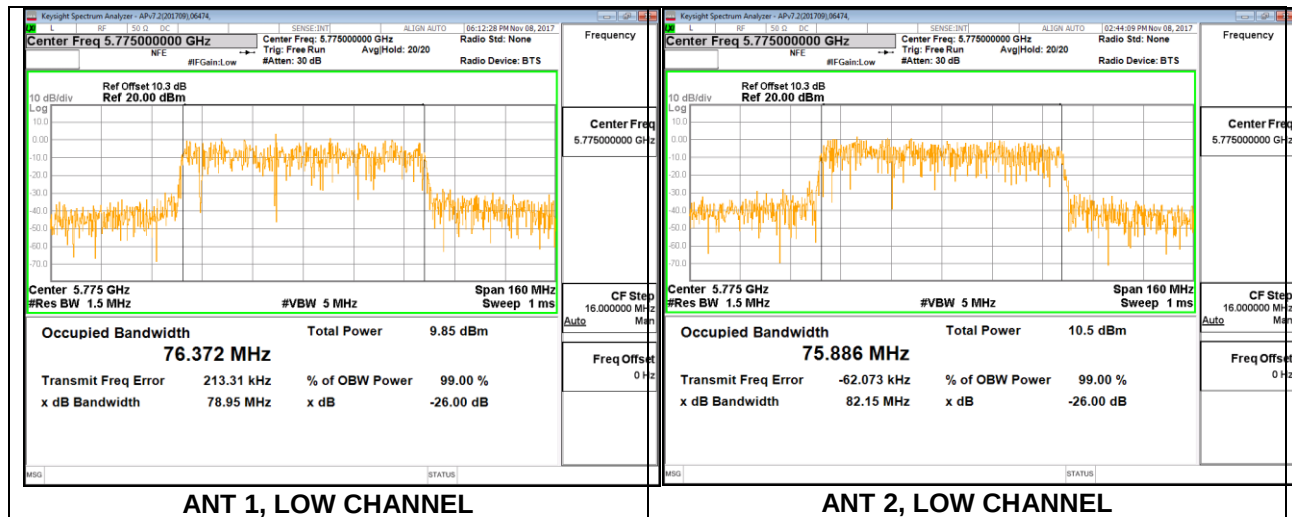


6.2.6.2. UNII-3 BAND

Channel	Frequency (MHz)	6 dB BW ANT1 (MHz)	6 dB BW ANT2 (MHz)	Limit (KHz)	Result
Low	5775	76.32	75.70	500	PASS



Channel	Frequency (MHz)	99% dB BW ANT1 (MHz)	99% dB BW ANT2 (MHz)
Low	5775	76.372	75.886



6.3. MAXIMUM CONDUCTED OUTPUT POWER

LIMITS

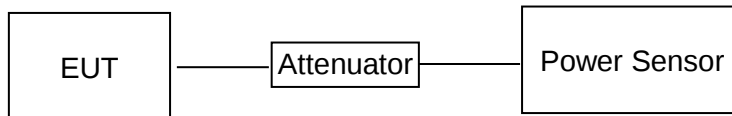
FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices :250mW (24dBm)	5150-5250
	For RSS:e.i.r.p. power: not exceed 200 mW(23dBm) or $10 + 10 \log_{10} B$	
	250mW (24dBm)	5250-5350
	250mW (24dBm)	For FCC:5470-5725 For IC:5470-5600 5650-5725
	1 Watt (30dBm)	5725-5850

TEST PROCEDURE

Refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Connect the EUT to the a broadband peak RF power meter, the power meter shall have a video bandwidth that is greater than or equal to the bandwidth and shall utilize a fast-responding diode detector.

TEST SETUP



RESULTS

6.3.1. 802.11a SISO MODE

6.3.1.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5180	1	13.85	N/A	17.59	24	23
		2	13.90		17.64		
Middle	5200	1	13.95		17.69		
		2	13.71		17.45		
High	5240	1	13.86		17.60		
		2	13.73		17.47		

6.3.1.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5745	1	12.39	N/A	30	30
		2	13.95			
Middle	5785	1	13.83			
		2	13.76			
High	5825	1	13.93			
		2	14.08			

- NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
 2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
 3. About correction Factor please refer to section 6.1

6.3.2. 802.11n HT20 CDD MODE

6.3.2.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5180	1	12.85	15.88	19.62	24	23
		2	12.88				
Middle	5200	1	12.97	15.92	19.66		
		2	12.85				
High	5240	1	12.91	15.89	19.63		
		2	12.85				

6.3.2.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5745	1	12.95	16.02	30	30
		2	13.07			
Middle	5785	1	12.91	15.79		
		2	12.64			
High	5825	1	12.56	15.70		
		2	12.82			

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN

2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor

3. About correction Factor please refer to section 6.1

6.3.3. 802.11n HT40 CDD MODE

6.3.3.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5190	1	10.40	14.19	17.93	24	23
		2	11.84				
High	5230	1	12.97	15.87	19.61		
		2	12.75				

6.3.3.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5755	1	13.05	16.03	30	30
		2	12.99			
High	5795	1	12.91	15.92		
		2	12.91			

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
 2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
 3. About correction Factor please refer to section 6.1

6.3.4. 802.11ac HT20 CDD MODE

6.3.4.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5180	1	9.85	12.91	16.65	24	23
		2	9.95				
Middle	5200	1	10.05	13.02	16.76		
		2	9.96				
High	5240	1	10.05	12.90	16.64		
		2	9.73				

6.3.4.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5745	1	10.01	13.04	30	30
		2	10.12			
Middle	5785	1	10.15	12.96		
		2	9.44			
High	5825	1	10.02	12.86		
		2	9.27			

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN

2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor

3. About correction Factor please refer to section 6.1

6.3.5. 802.11ac HT40 CDDMODE

6.3.5.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5190	1	9.23	12.35	16.09	24	23
		2	9.45				
High	5230	1	10.03	12.97	16.71		
		2	9.88				

6.3.5.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5755	1	10.11	13.17	30	30
		2	10.50			
High	5795	1	10.14	13.13		
		2	10.21			

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
 2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
 3. About correction Factor please refer to section 6.1

6.3.6. 802.11ac HT80 CDD MODE

6.3.6.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		EIRP For IC (dBm)	FCC Limit (dBm)	IC Limit (dBm)
			Single	Total			
Low	5210	1	10.11	13.11	16.85	24	23
		2	10.08				

6.3.6.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANT	Maximum AVG Conducted Output Power (dBm)		FCC Limit (dBm)	IC Limit (dBm)
			Single	Total		
Low	5775	1	9.12	12.13	30	30
		2	9.11			

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
 2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
 3. About correction Factor please refer to section 6.1

6.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250
	For RSS:10dBm/MHz	
	11dBm/MHz	5250-5350
	11dBm/MHz	For FCC:5470-5725 For IC:5470-5600 5650-5725
	30dBm/500kHz	5725-5850

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500KHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

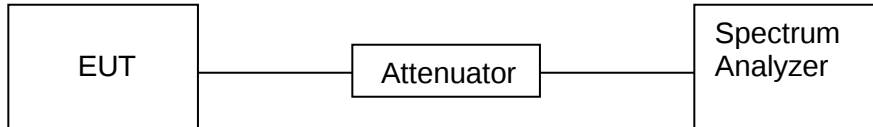
Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.

2. The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is - 3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

TEST SETUP



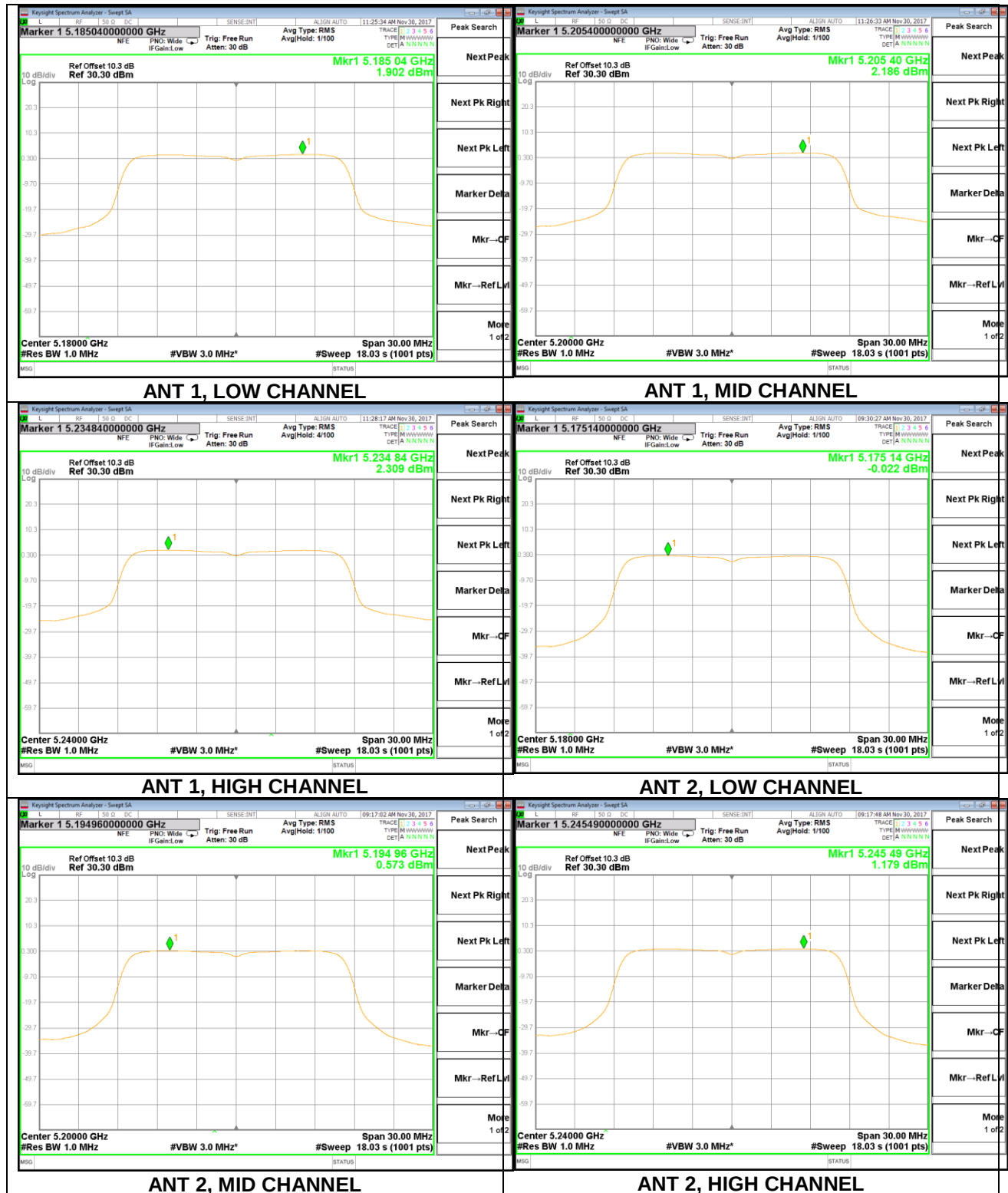
RESULTS

6.4.1. 802.11a SISO MODE

6.4.1.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANT	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
			Single	Total		
Low	5180	1	1.902	N/A	11	11
		2	-0.022			
Middle	5200	1	2.186			
		2	0.573			
High	5240	1	2.309			
		2	1.179			

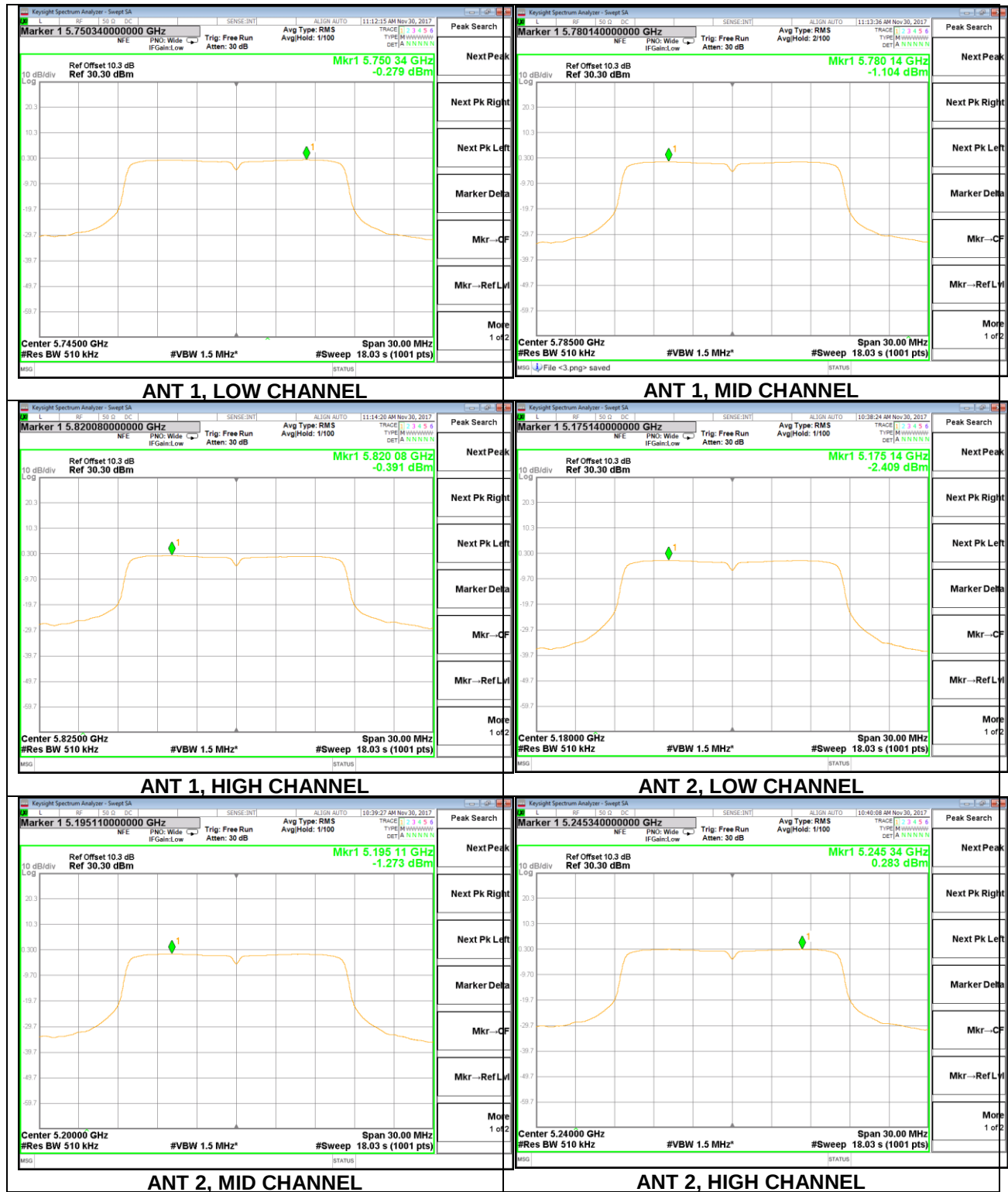
Note: 1. PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1



6.4.1.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)
			Single	Total		
Low	5745	1	-0.279	N/A	30	30
		2	-2.409			
Middle	5785	1	-1.104			
		2	-1.273			
High	5825	1	-0.391			
		2	0.283			

Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

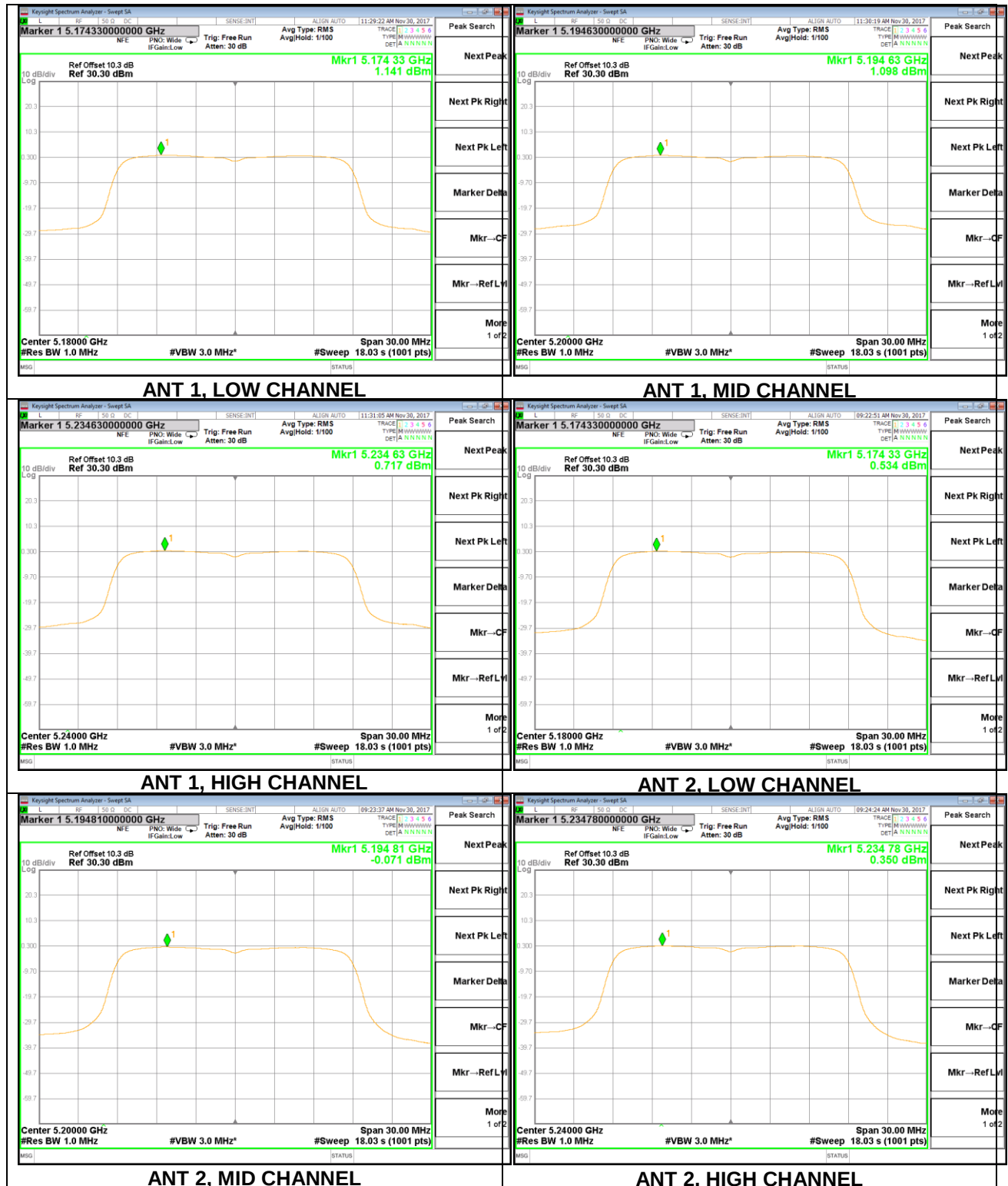


6.4.2. 802.11n HT20 CDD MODE

6.4.2.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANTEN NA	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
			Single	Total		
Low	5180	1	1.141	3.86	11	11
		2	0.534			
Middle	5200	1	1.098	3.56		
		2	-0.071			
High	5240	1	0.717	3.55		
		2	0.350			

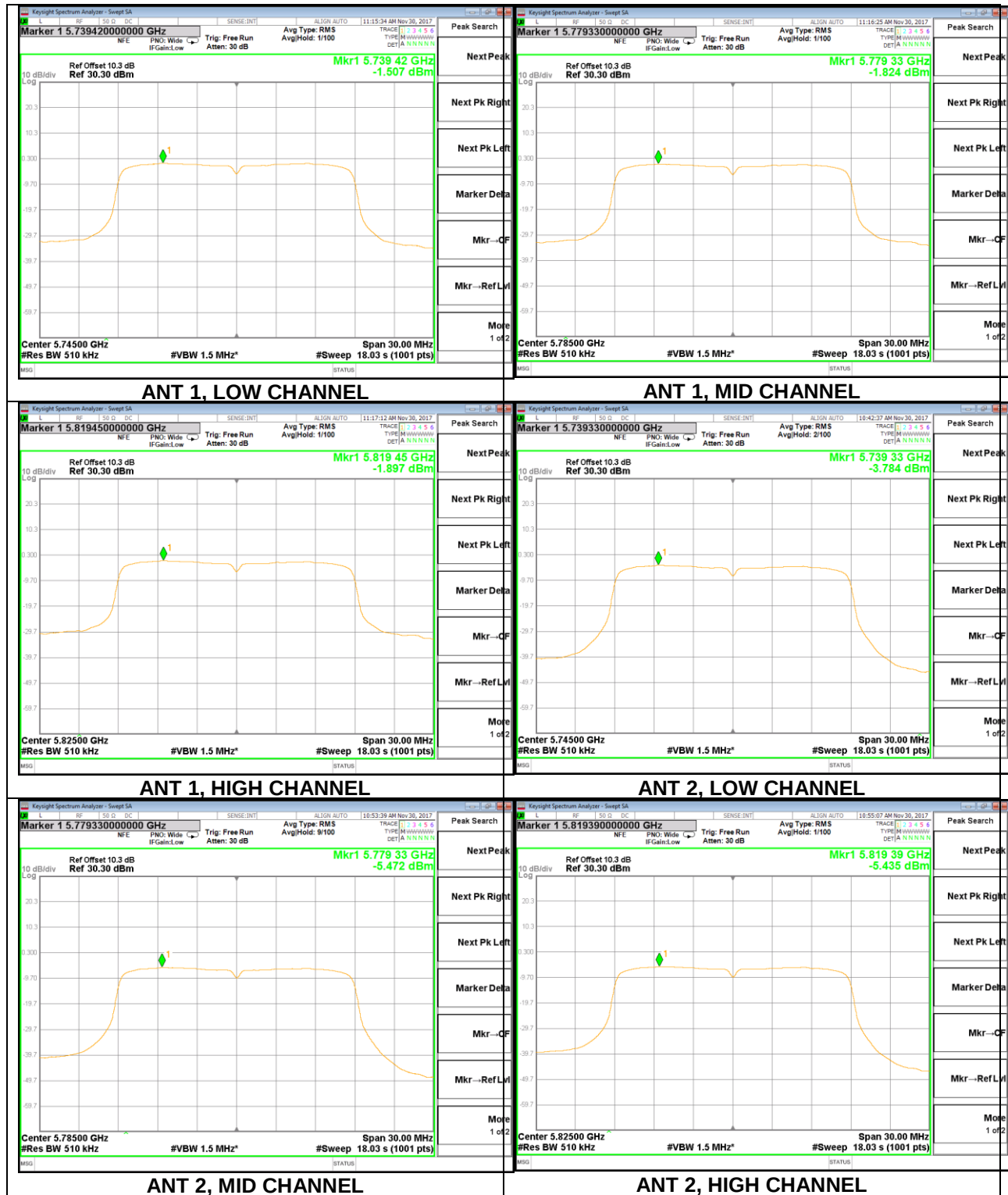
Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1



6.4.2.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)
			Single	Total		
Low	5745	1	-1.507	0.51	11	11
		2	-3.784			
Middle	5785	1	-1.824	-0.27		
		2	-5.472			
High	5825	1	-1.897	-0.30		
		2	-5.435			

Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

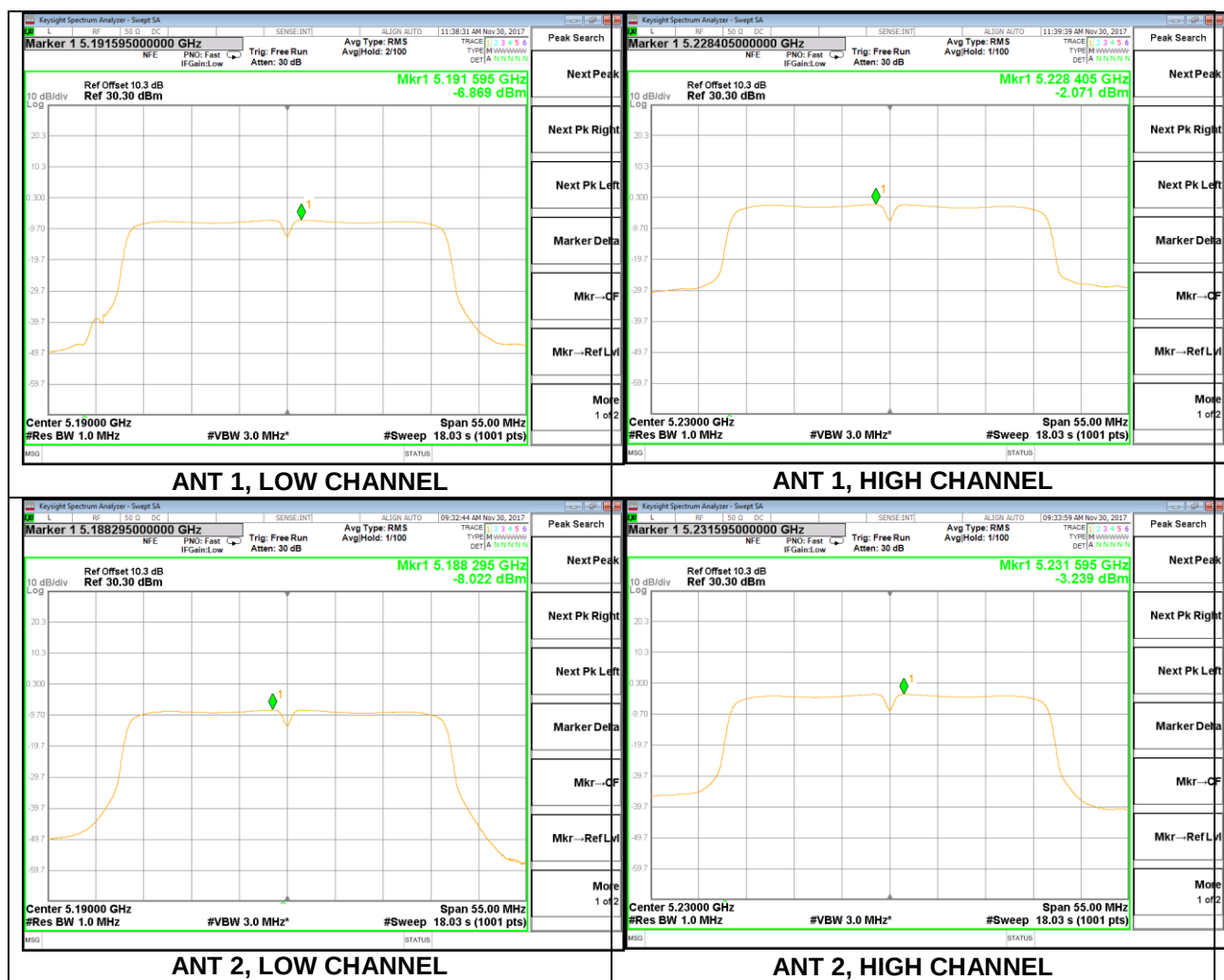


6.4.3. 802.11n HT40 CDD MODE

6.4.3.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANTEN NA	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)		
			Single	Total				
Low	5190	1	-6.869	-4.40	11	11		
		2	-8.022					
High	5230	1	-2.071	0.39			11	11
		2	-3.239					

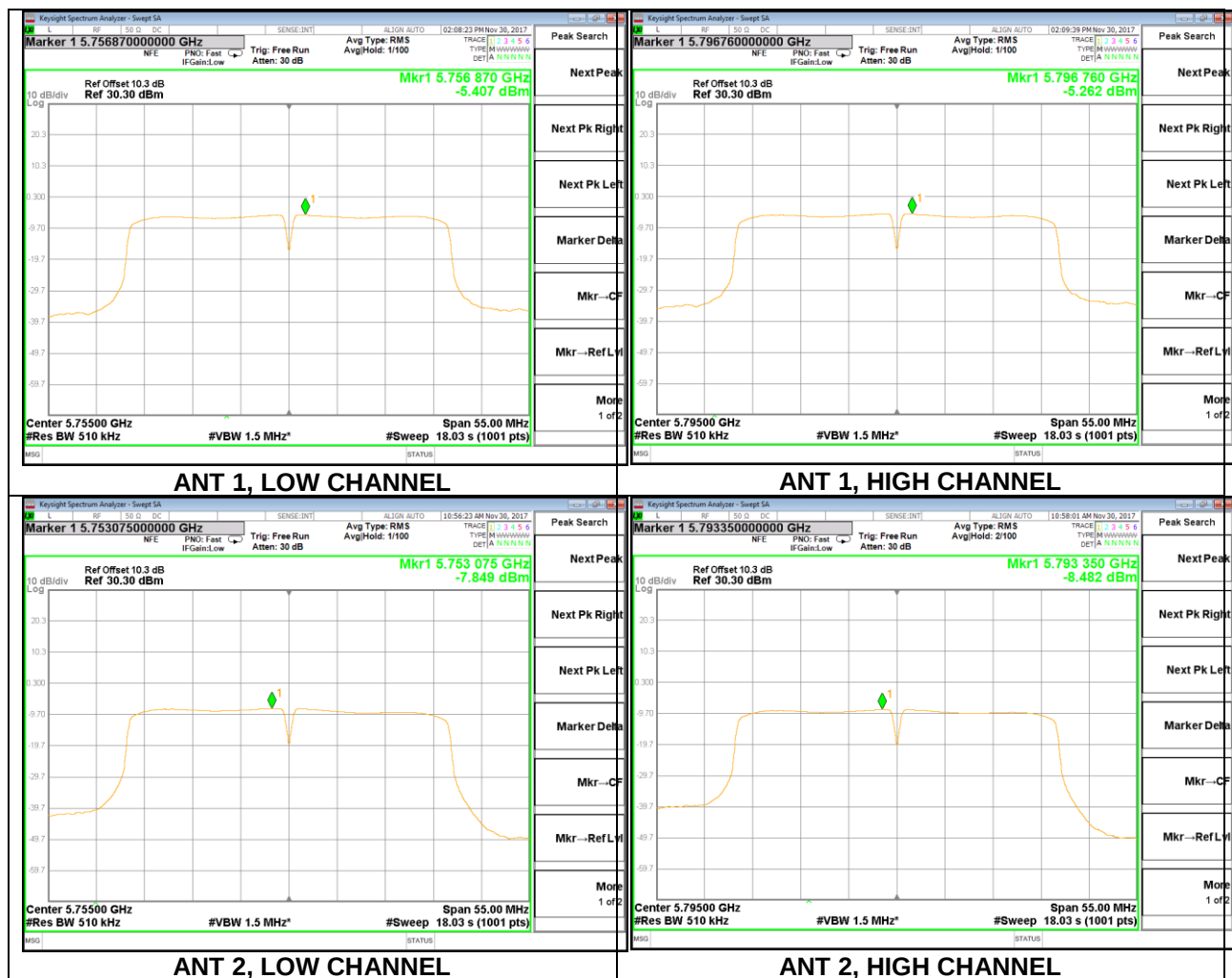
Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1



6.4.3.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)		
			Single	Total				
Low	5755	1	-5.407	-3.45	11	11		
		2	-7.849					
High	5795	1	-5.262	-3.57			11	11
		2	-8.482					

Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

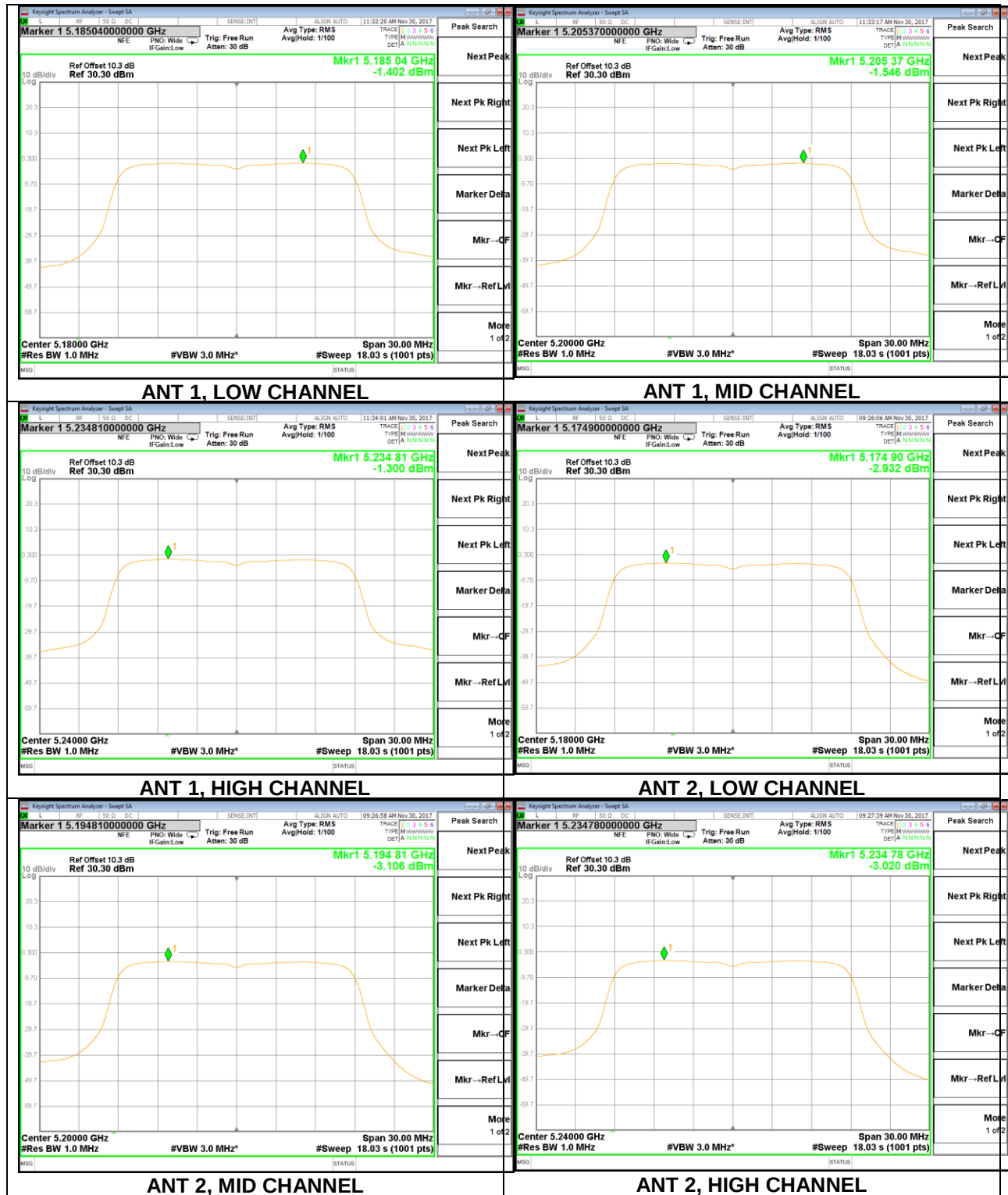


6.4.4. 802.11ac HT20 CDD MODE**6.4.4.1. UNII-1 BAND**

Test Channel	Frequency (MHz)	ANTEN NA	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
			Single	Total		
Low	5180	1	-1.402	0.91	11	11
		2	-2.932			
Middle	5200	1	-1.546	0.75		
		2	-3.106			
High	5240	1	-1.300	0.93		
		2	-3.020			

Note: 1.PSD=Meas. Level+ Correction Factor

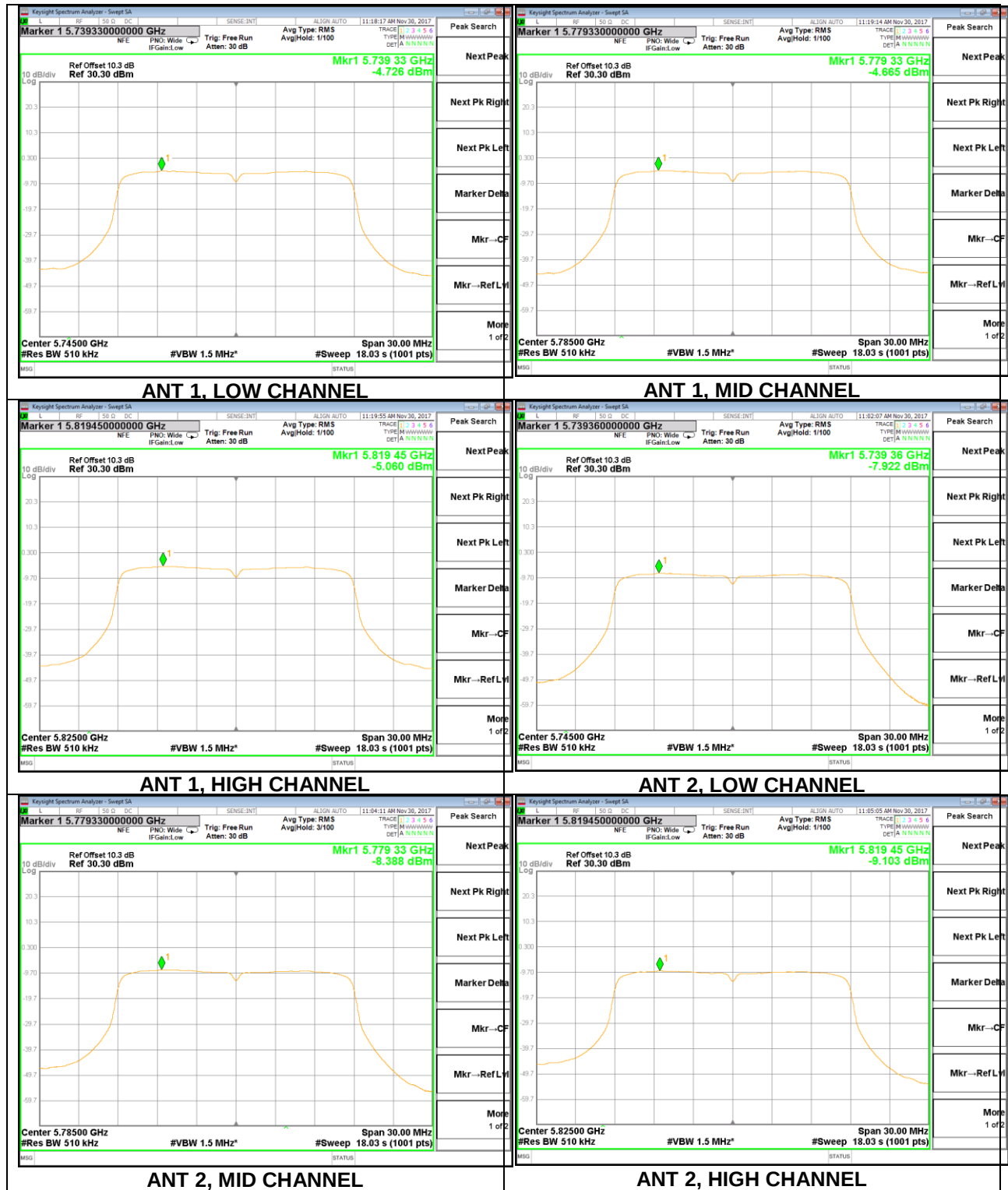
2. About correction Factor please refer to section 6.1



6.4.4.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)
			Single	Total		
Low	5745	1	-4.726	-3.03	11	11
		2	-7.922			
Middle	5785	1	-4.665	-3.13		
		2	-8.388			
High	5825	1	-5.060	-3.62		
		2	-9.103			

Note: 1. PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

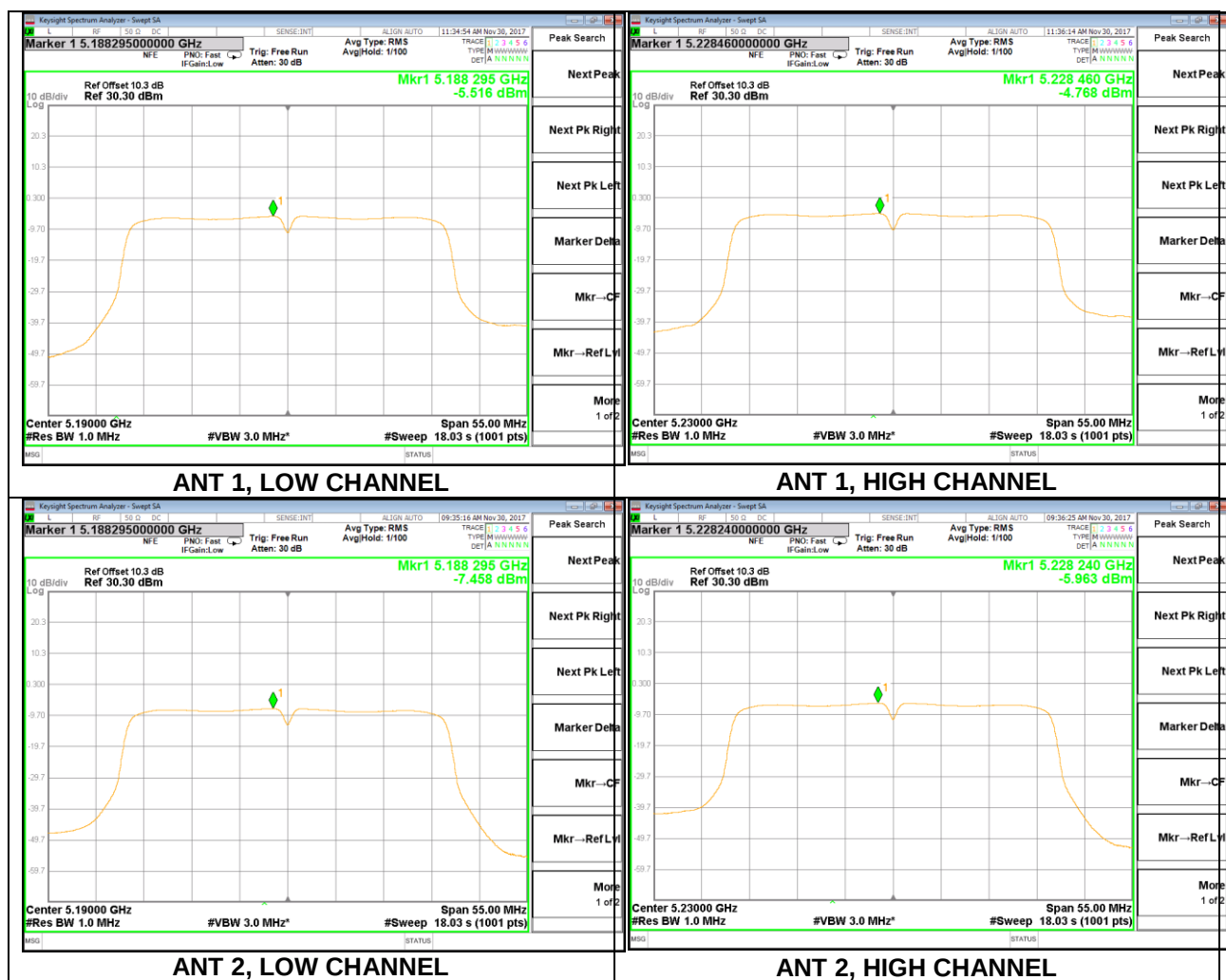


6.4.5. 802.11ac HT40 CDD MODE

6.4.5.1. UNII-1 BAND

Test Channel	Frequency (MHz)	ANTEN NA	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)		
			Single	Total				
Low	5190	1	-5.516	-3.37	11	11		
		2	-7.458					
High	5230	1	-4.768	-2.31				
		2	-5.963					

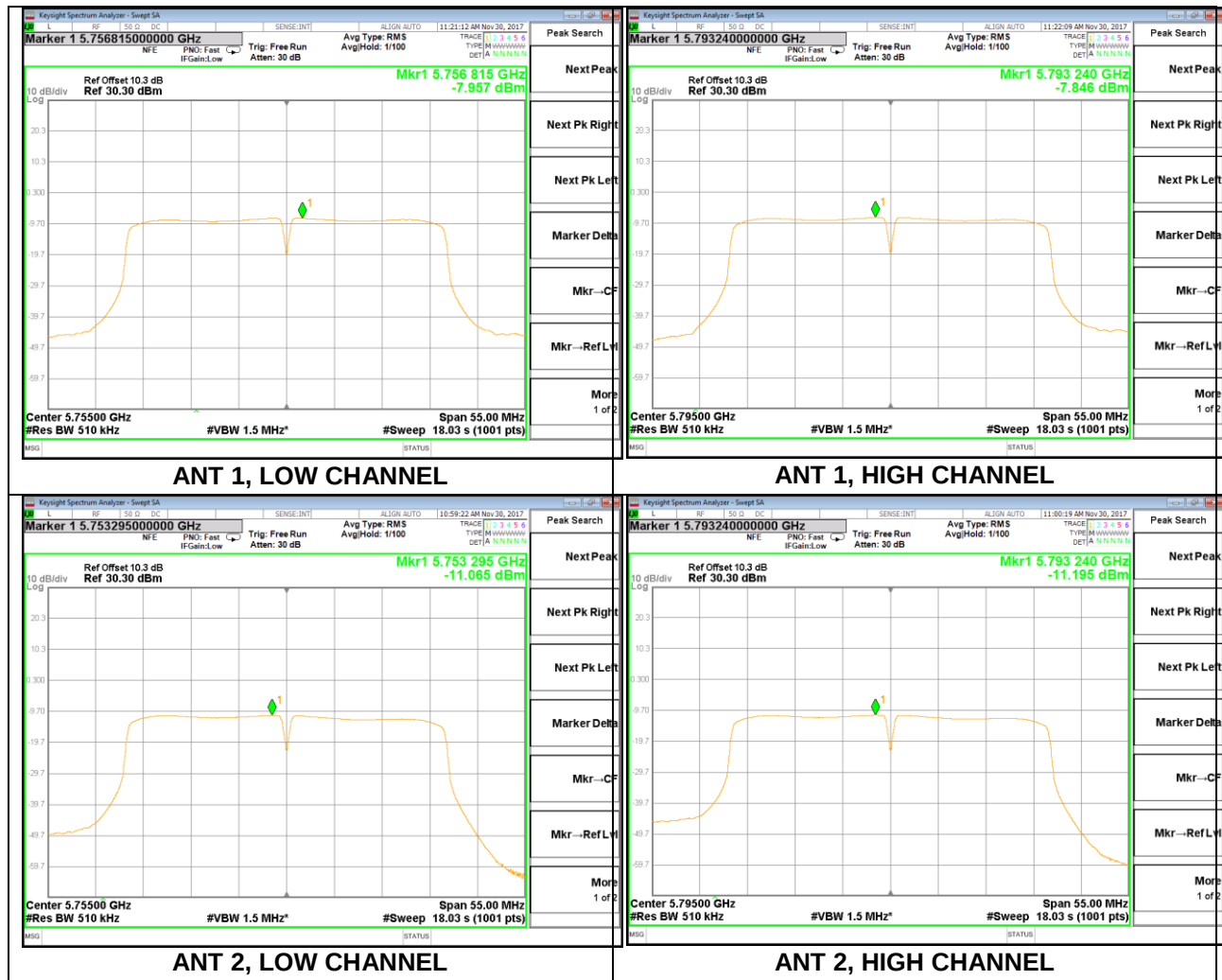
Note: 1. PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1



6.4.5.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)		
			Single	Total				
Low	5755	1	-7.957	-6.23	11	11		
		2	-11.065					
High	5795	1	-7.846	-6.20				
		2	-11.195					

Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

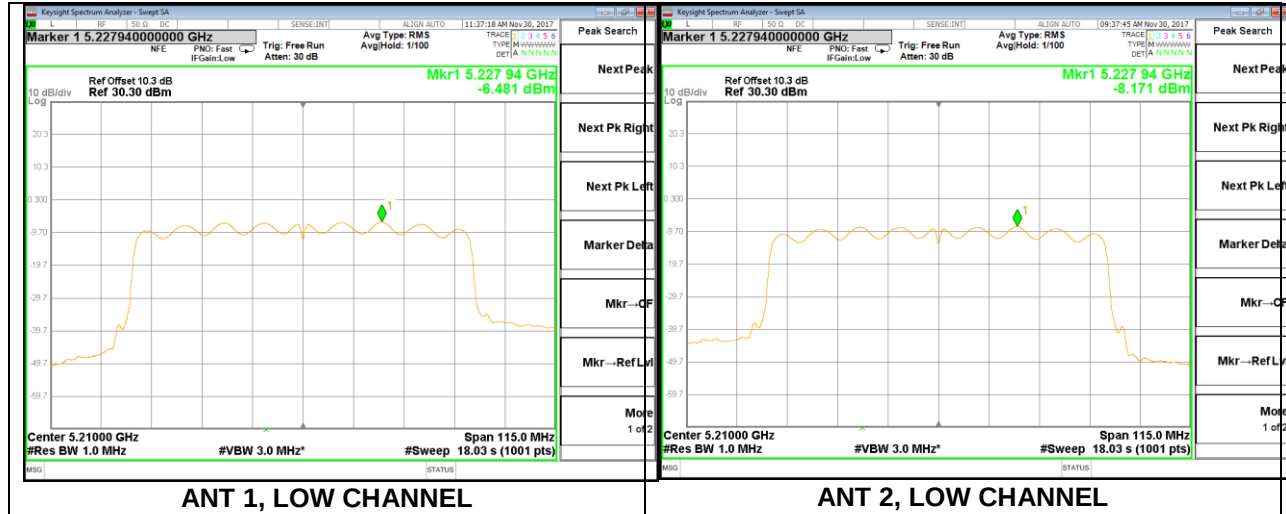


6.4.6. 802.11ac HT80 CDD MODE**6.4.6.1. UNII-1 BAND**

Test Channel	Frequency (MHz)	ANTEN NA	Meas. Level (dBm/MHz)		FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
			Single	Total		
Low	5210	1	-6.481	-4.2	11	11
		2	-8.171			

Note: 1.PSD=Meas. Level+ Correction Factor

2. About correction Factor please refer to section 6.1



6.4.6.2. UNII-3 BAND

Test Channel	Frequency (MHz)	ANTE NNA	Meas. Level (dBm/500KHz)		FCC Limit (dBm/500KHz)	IC Limit (dBm/500KHz)
			Single	Total		
Low	5775	1	-10.472	-8.0	11	11
		2	-11.665			

Note: 1.PSD=Meas. Level+ Correction Factor
2. About correction Factor please refer to section 6.1

