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Free	juency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)		
5150-5250		-27	68.3		
5250-5350		-27	68.3		
5	5470-5725	-27	68.3		
	Below 5650	-27	68.3		
	5650-5700	-27~10	68.3~105.3		
	5700-5720	10~15.6	105.3~110.9		
5725-	5720-5725	15.6~27	110.9~68.3		
5725- 5850	5725-5850	27	122.3		
3630	5850-5855	27~15.6	122.3~110.9		
	5855-5875	15.6~10	110.9~105.3		
	5875-5925	10~-27	105.3~68.3		
	Above 5925	-27	68.3		

TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 1.5m above 1GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed...

5. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
1GHz-18GHz	Double Ridged Horn Antenna	3

6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
	Peak Value: RBW=1MHz/VBW=3MHz,	
1GHz-18GHz	Sweep time=Auto	Peak
10112-100112	Average Value: RBW=1MHz/VBW=10Hz,	reak
	Sweep time=Auto	

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

TEST RESULTS

Remark: We tested at all modes at the antenna single transmitting mode and the Mimo mode, and recored the worst data at the Mimo mode of the 802.11a Mode.

For Radiated Bandedge Measurement

	802.11 a/ Channel 36 :5180 MHz										
Freq	Read	Antenna	Preamp	Cable	Result	Limit	Margin	Detector	Polarization		
(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)				
	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)					
5150	36.58	35.58	29.04	8.28	51.4	68.3	-16.9	Peak	Horizontal		
5150	26.95	35.58	29.04	8.28	41.77	54	-12.23	AV	Horizontal		
5180	88.66	35.55	29.02	8.3	103.49			Peak	Horizontal		
5180	86.96	35.55	29.02	8.3	101.79			AV	Horizontal		
5150	34.54	35.58	29.04	8.28	49.36	68.3	-18.94	Peak	Vertical		
5150	23.87	35.58	29.04	8.28	38.69	54	-15.31	AV	Vertical		
5180	86.39	35.55	29.02	8.3	101.22			Peak	Vertical		
5180	85.54	35.55	29.02	8.3	100.37			AV	Vertical		

802.11 a/ Channel 48 :5240 MHz											
Freq	Read	Antenna	Preamp	Cable	Result	Limit	Margin	Detector	Polarization		
(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)				
	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)					
5240	85.47	35.51	29.05	8.32	100.25			Peak	Horizontal		
5240	83.28	35.51	29.05	8.32	98.06			AV	Horizontal		
5350	35.53	35.42	29.06	8.39	50.28	68.3	-18.02	Peak	Horizontal		
5350	26.81	35.42	29.06	8.39	41.56	54	-12.44	AV	Horizontal		
5240	84.33	35.51	29.05	8.32	99.11			Peak	Vertical		
5240	83.57	35.51	29.05	8.32	98.35			AV	Vertical		
5350	36.32	35.42	29.06	8.39	51.07	68.3	-17.23	Peak	Vertical		
5350	23.67	35.42	29.06	8.39	38.42	54	-15.58	AV	Vertical		

802.11 a/ Channel 149 :5745 MHz										
Freq	Read	Antenna	Preamp	Cable	Result	Limit	Margin	Detector	Polarization	
(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)			
	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)				
5725	38.96	35.69	29.13	8.65	54.17	122.3	-68.13	Peak	Horizontal	
5725	29.54	35.69	29.13	8.65	44.75			AV	Horizontal	
5745	78.42	35.7	29.14	8.69	93.67			Peak	Horizontal	
5745	77.45	35.7	29.14	8.69	92.7			AV	Horizontal	
5725	37.48	35.69	29.13	8.65	52.69	122.3	-69.61	Peak	Vertical	
5725	27.28	35.69	29.13	8.65	42.49			AV	Vertical	
5745	76.32	35.7	29.14	8.69	91.57			Peak	Vertical	
5745	73.14	35.7	29.14	8.69	88.39			AV	Vertical	

	802.11 a/ Channel 165 :5825 MHz											
Freq	Read	Antenna	Preamp	Cable	Result	Limit	Margin	Detector	Polarization			
(MHz)	Level	Factor	Factor	Loss	Level	Line	(dB)					
	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)						
5825	77.42	35.82	29.16	8.77	92.85			Peak	Horizontal			
5825	75.81	35.82	29.16	8.77	91.24			AV	Horizontal			
5850	38.21	35.85	29.18	8.8	53.68	122.3	-68.62	Peak	Horizontal			
5850	23.96	35.85	29.18	8.8	39.43			AV	Horizontal			
5825	76.28	35.82	29.16	8.77	91.71			Peak	Vertical			
5825	73.22	35.82	29.16	8.77	88.65			AV	Vertical			
5850	33.82	35.85	29.18	8.8	49.29	122.3	-73.01	Peak	Vertical			
5850	24.45	35.85	29.18	8.8	39.92			AV	Vertical			

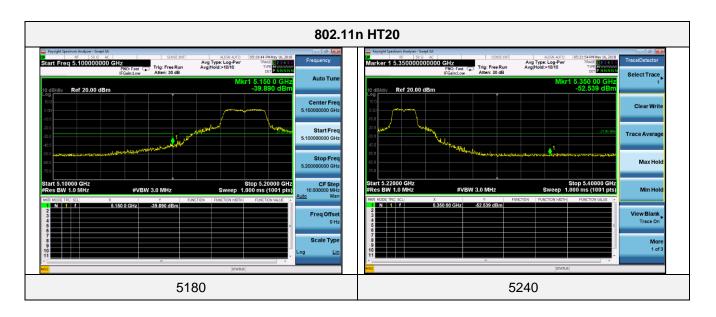
REMARKS:

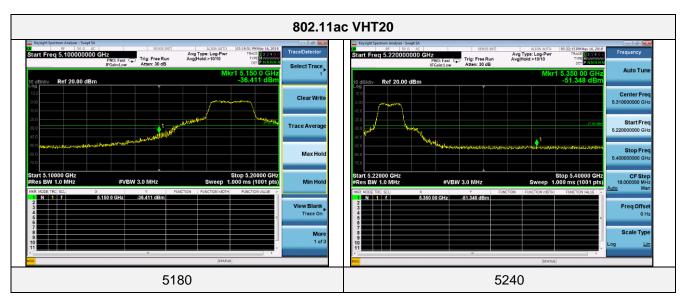
- 1. Result Level = Read Level + Antenna Factor + Cable loss Preamp Factor.
- 2. The other emission levels were very low against the limit.
- 3. The average measurement was not performed when the peak measured data under the limit of average detection
- 4. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=10Hz/Sweep time=Auto/Detector=Peak;

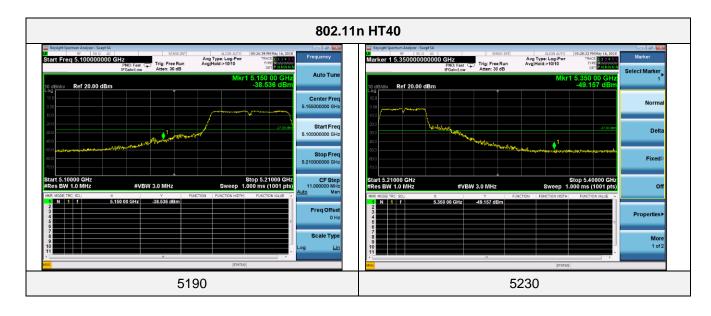
For Conducted Bandedge Measurement

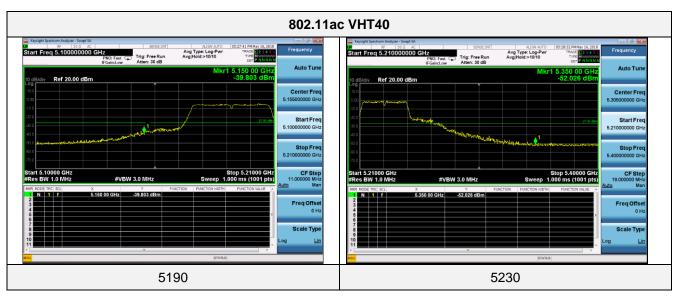
5.2G Antenna 1

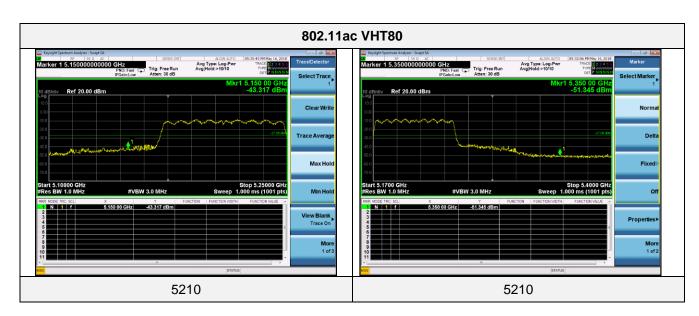












5.2G Antenna 2

