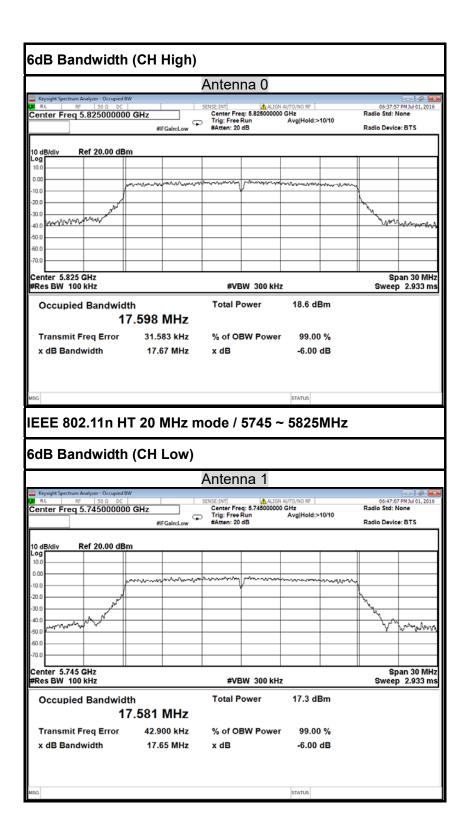
Compliance Certification Services (Shenzhen) Inc. Reference No.: C161219Z09-RP1-2 Report No.: C161220Z01-RP1-2



FCC ID: 2AF5PMX1200 Page 58 / 256 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services. 6dB Bandwidth (CH Mid) Antenna 1 SENSE:INT ALIGN AUTO/NO RF
Center Freq: 5.785000000 GHz
Trig: Free Run Avg|Hold:>10/10
#Atten: 20 dB Center Freq 5.785000000 GHz Radio Device: BTS Ref 20.00 dBm Center 5.785 GHz #Res BW 100 kHz Span 30 MHz Sweep 2.933 ms #VBW 300 kHz **Total Power** 17.8 dBm Occupied Bandwidth 17.580 MHz Transmit Freq Error 33.357 kHz % of OBW Power 99.00 % x dB Bandwidth 17.67 MHz x dB -6.00 dB 6dB Bandwidth (CH High) Ante<u>nna</u> 1 Center Freq: 5.825000000 GHz
Trig: Free Run
#Atten: 20 dB
Avg|Hold:>10/10 Span 30.000 MHz Radio Device: BTS Ref 20.00 dBm mun Center 5.825 GHz #Res BW 100 kHz Span 30 MHz #VBW 300 kHz Sweep 2.933 ms **Total Power** 15.8 dBm Occupied Bandwidth 17.586 MHz Transmit Freq Error 34.017 kHz % of OBW Power 99.00 % x dB Bandwidth 17.67 MHz -6.00 dB x dB

Reference No.: C161219Z09-RP1-2 Report No.: C161220Z01-RP1-2 IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz 6dB Bandwidth (CH Low) Antenna 0 SENSE:INT ALIGN AUTO/NO RF Center Freq: 5.755000000 GHz
Trig: Free Run Avg|Hold:>10/10 #Atten: 20 dB 06:40:49 PMJul 01, 2016 Radio Std: None Span 60.000 MHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm A Mary Waller 1-yenengeneral Center 5.755 GHz Span 60 MHz Res BW 100 kHz #VBW 300 kHz Occupied Bandwidth **Total Power** 17.8 dBm 35.947 MHz Transmit Freq Error 27.868 kHz % of OBW Power 99.00 % x dB Bandwidth 36.35 MHz -6.00 dB STATUS 6dB Bandwidth (CH High) Antenna 0 SCHSE:INT ALIGN AUTO/N
Center Freq: 5.795000000 GHz
Trig: Free Run
#Atten: 20 dB Center Freq 5.795000000 GHz Avg|Hold:>10/10 Radio Device: BTS Ref 20.00 dBm mary plant Center 5.795 GHz #Res BW 100 kHz Span 60 MHz #VBW 300 kHz Sweep 5.8 ms Occupied Bandwidth **Total Power** 17.5 dBm 35.955 MHz Transmit Freq Error 23.674 kHz % of OBW Power 99.00 % x dB Bandwidth 36.40 MHz x dB -6.00 dB

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STATUS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz 6dB Bandwidth (CH Low) Antenna 1 Center Freq: 5.755000000 GHz
Trig: Free Run
Avg Center Freq 5.755000000 GHz Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center 5.755 GHz #Res BW 100 kHz Span 60 MHz **#VBW 300 kHz** Sweep 5.8 ms Occupied Bandwidth **Total Power** 17.6 dBm 35.948 MHz Transmit Freq Error 13.657 kHz % of OBW Power 99.00 % x dB Bandwidth 36.40 MHz x dB -6.00 dB 6dB Bandwidth (CH High) Antenna 1 Center Freq: 5.795000000 GHz
Trig: Free Run
#Atten: 20 dB
Auto/No RF
Avg|Hold:>10/10 06:44:17 PMJul 01, 2016 Radio Std: None Span 60.000 MHz Radio Device: BTS Ref 20.00 dBm Span 60 MHz #VBW 300 kHz **Total Power** 17.1 dBm Occupied Bandwidth 35.941 MHz Transmit Freq Error 7.227 kHz % of OBW Power 99.00 % x dB Bandwidth 36.39 MHz x dB -6.00 dB

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STATUS

IEEE 802.11ac 80 MHz mode / 5775MHz 6dB Bandwidth Antenna 0 Span 120.00 MHz Ref 20.00 dBm wyrananhopend and a second Span 120 MHz Sweep 11.53 ms Center 5.775 GHz #Res BW 100 kHz #VBW 300 kHz **Total Power** 16.5 dBm Occupied Bandwidth 74.788 MHz Transmit Freq Error -17.464 kHz % of OBW Power 99.00 % x dB x dB Bandwidth 75.51 MHz -6.00 dB IEEE 802.11ac 80 MHz mode / 5775MHz 6dB Bandwidth Antenna 1 SENSE:INT ALIGN AUTO/NO RF
Center Freq: 5.775000000 GHz
Trig: Free Run Avg|Hold:>10/10
#Atten: 20 dB Span 120.00 MHz Radio Device: BTS Ref 20.00 dBm Span 120 MHz Sweep 11.53 ms Center 5.775 GHz #Res BW 100 kHz #VBW 300 kHz Occupied Bandwidth **Total Power** 15.9 dBm 74.836 MHz Transmit Freq Error -136.82 kHz % of OBW Power 99.00 % x dB Bandwidth 75.29 MHz x dB -6.00 dB

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6.3 ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the OFDM mode is used.

MEASUREMENT PARAMETERS

Measuremen	t parameter
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

LIMITS

FCC	IC						
Antenna Gain							
6 dBi							

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TEST RESULTS

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V_{nom}	Lowest channel 5180MHz	Highest channel 5240MHz	Lowest channel 5180MHz	Highest channel 5240MHz			
		Anten	nna 0	Antenna 1				
Conducted power with OFDM modul		-0.40	-1.69	1.87	2.53			
Radiated power [dBm] Measured with OFDM modulation		2.83	2.83 1.05		4.73			
Gain [dBi] Calculated		3.23 2.74		2.64	2.20			
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)						

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IEEE 802.11a mode / 5260~ 5320MHz

T _{nom}	V _{nom}	Lowest channel Highest channel Lowest channel 5260MHz 5320MHz 5260MHz			Highest channel 5320MHz			
		Anten	ına 0	Antenna 1				
Conducted power [dBm] Measured with OFDM modulation		2.91	2.67	2.56	2.42			
Radiated power [dBm] Measured with OFDM modulation		5.03	4.86	4.97	4.69			
Gain [dBi] Calculated		2.12	2.19	2.41	2.27			
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)						

IEEE 802.11a mode / 5500 ~ 5700MHz

<u> 002:114 1110</u>	4070000 0700						
T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz	Lowest channel 5500MHz	Highest channel 5700MHz		
		Anter	nna 0	Antenna 1			
Conducted power with OFDM modu	r [dBm] Measured llation	2.47	2.32	3.44	2.44		
Radiated power [a with OFDM modu		5.09	4.97	5.98	4.86		
Gain [dBi] Calcula	ated	2.62	2.65	2.54	2.42		
Measurement und	certainty	± 1.5 dB (cond.) / ± 3 dB (rad.)					

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	J		Highest channel 5825MHz			
		Anten	na 0	Antenna 1				
Conducted power with OFDM modu		2.79	2.60	3.01	2.28			
Radiated power [dBm] Measured with OFDM modulation		5.26	5.17	5.86	5.09			
Gain [dBi] Calculated		2.47	2.57	2.85	2.81			
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)						

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6.4 OUTPUT POWER

6.4.1 LIMIT

According to §15.407(a)& FCC R&O FCC 14 - 30,

- (1) For the band 5.15-5.25 GHz.
- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 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 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (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.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

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(3) For the 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. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high

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Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

gain directional antennas are used exclusively for fixed, point-to-point operations.

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Specified Limit of the Output Power

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			og(B) B)	11 + 10* (dB	• • •	Maximum (Output Po	wer Limit
	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	
Low	5260	19.60	19.35	12.92	12.87	23.92	23.87	23.92	23.92
Mid	5300	19.27	19.40	12.85	12.88	23.85	23.88	23.85	23.88
High	5320	19.35	19.38	12.87	12.87	23.87	23.87	23.87	23.87

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	(IVIEZ)			10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	
Low	5500	19.61	19.36	12.92	12.87	23.92	23.87	23.92	23.87	
Mid	5580	19.40	19.50	12.88	12.90	23.88	23.90	23.88	23.90	
High	5700	19.57	19.75	12.92	12.96	23.92	23.96	23.92	23.96	

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)		26 dB Bandwidth (B) (MHz)		og(B) B)	11 + 10 [*] (dB	• • •	Maximum (Output Po	wer Limit
	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	
Low	5260	19.66	19.91	12.94	12.99	23.94	23.99	23.94	23.99
Mid	5300	19.74	19.71	12.95	12.95	23.95	23.95	23.95	23.95
High	5320	20.02	19.91	13.01	12.99	24.01	23.99	24.00	23.99

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			og(B) B)	11 + 10 [*] (dB	• • •	Maximum (Output Po	wer Limit
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5500	19.79	19.75	12.96	12.96	23.96	23.96	23.96	23.96
Mid	5580	20.08	19.83	13.03	12.97	24.03	23.97	24.00	23.97
High	5700	19.76	19.76	12.96	12.96	23.96	23.96	23.96	23.96

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IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)			og(B) B)	11 + 10*Log(B) (dBm)		Maximum (Output Po	wer Limit
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5270	39.15	39.13	15.93	15.93	26.93	26.93	24.00	24.00
High	5310	38.74	39.28	15.88	15.94	26.88	26.94	24.00	24.00

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		requency (MHz) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5510	39.08	38.76	15.92	15.88	26.92	26.88	24.00	24.00
Mid	5550	39.18	39.31	15.93	15.95	26.93	26.95	24.00	24.00
High	5670	39.09	39.27	15.92	15.94	26.92	26.94	24.00	24.00

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)		26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	
	5290	78.71	78.76	16.00	18.96	29.96	29.96	24.00	24.00	

IEEE 802.11ac 80 mode / 5530MHz

Chann	Channel Frequency (MHz) 26 dB Ban (MI		` '		O()		• • •		
			Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
	5530	78.77	78.76	16.00	18.96	29.96	29.96	24.00	24.00

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	_	_		_
642	MFASURF	MENT FOI	IIPMENT	HSFD

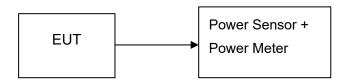
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017

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Remark: Each piece of equipment is scheduled for calibration once a year.

6.4.3 TEST CONFIGURATIONS

The EUT was connected to a Power Meter through a 50 Ω RF cable.



6.4.4 TEST PROCEDURE

Set span to encompass the entire emission bandwidth (EBW) of the signal.

Set RBW = 1 MHz / Set VBW = 3 MHz.

Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run". Trace average 100 traces in power averaging mode. Compute

power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

6.4.5 TEST RESULTS

No non-compliance noted

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6.4.6 TEST DATA

IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)		AVG Output Power (W)		Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Antenna 0	Antenna 1	(ubiii)	
Low	5180	11.76	14.04	0.01500	0.02535		PASS
Mid	5200	10.23	14.94	0.01054	0.03119	30.00	PASS
High	5240	10.47	14.69	0.01114	0.02944		PASS

IEEE 802.11a mode / 5260~ 5320MHz

	222 0021114 1110407 0220 111112									
Channel		Frequency (MHz)	y AVG Output Power (dBm) AVG Output Power (W)		Limit (dBm)	Result				
		(1411 12)	Antenna 0	Antenna 1	Antenna 0	Antenna 1	(ubiii)			
Lo	ow	5260	15.08	14.71	0.03221	0.02958		PASS		
M	/lid	5300	14.83	14.78	0.03041	0.03006	23.85	PASS		
Hi	igh	5320	14.83	14.58	0.03041	0.02871		PASS		

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVG Output Power (dBm) (W)				Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Antenna 0	Antenna 1	(ubiii)	
Low	5500	14.64	15.60	0.02911	0.03631		PASS
Mid	5580	15.08	14.85	0.03221	0.03055	23.87	PASS
High	5700	14.49	14.60	0.02812	0.02884		PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	-	out Power Bm)	AVG Outp (V		Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Antenna 0	Antenna 1	(ubiii)	
Low	5745	14.94	15.17	0.03119	0.03289		PASS
Mid	5785	14.73	15.03	0.02972	0.03184	30.00	PASS
High	5825	14.76	14.44	0.02992	0.02780		PASS

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IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

Channel Frequency (MHz)		AVO	G Output Pov (dBm)	ver	AVG Output Power	Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
Low	5180	12.79	8.74	14.23	0.02649		PASS
Mid	5200	13.58	11.05	15.51	0.03554	30.00	PASS
High	5240	13.61	12.03	15.90	0.03892		PASS

IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

Channel	Frequency (MHz)	AVO	AVG Output Power (dBm)		AVG Output Power (dBm)		Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
Low	5260	15.19	15.06	18.14	0.06510		PASS
Mid	5300	15.63	15.17	18.42	0.06944	23.94	PASS
High	5320	15.66	15.31	18.50	0.07078		PASS

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVO	G Output Pow (dBm)	/er	AVG Output Power	Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
Low	5500	13.17	15.01	17.20	0.05244		PASS
Mid	5580	12.31	15.14	16.96	0.04968	23.96	PASS
High	5700	13.07	15.32	17.35	0.05432		PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	AVG Output Power (dBm) AVG Outpu		(dRm)		Result	
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
Low	5745	17.42	15.08	19.42	0.08742		PASS
Mid	5785	14.95	15.89	18.46	0.07008	30.00	PASS
High	5825	15.27	14.93	18.11	0.06477		PASS

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IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubili)	
Low	5190	14.34	14.61	17.49	0.05607	30.00	PASS
High	5230	14.01	15.50	17.83	0.06066	30.00	PASS

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
Low	5270	14.52	15.50	18.05	0.06380	24.00	PASS
High	5310	14.86	14.51	17.70	0.05887	24.00	PASS

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	equency (dBm) Power		•		•		Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(uBIII)			
Low	5510	14.77	14.46	17.63	0.05792		PASS		
Mid	5550	13.95	14.50	17.24	0.05302	24.00	PASS		
High	5670	14.41	14.54	17.49	0.05605		PASS		

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Total	(dBm)	(dBiii)	
Low	5755	15.63	14.28	18.02	0.06335	30.00	PASS
High	5795	14.19	14.47	17.34	0.05423	30.00	PASS

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IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
	5210	13.62	12.43	16.08	0.04051	30.00	PASS

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
	5290	11.94	12.52	15.25	0.03350	24.00	PASS

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Total	(dBm)	(abiii)	
	5530	13.15	12.58	15.88	0.03877	24.00	PASS

IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power	Limit (dBm)	Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(dBm)	(ubiii)	
	5775	13.82	12.54	16.24	0.04205	30.00	PASS

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6.5 BAND EDGES MEASUREMENT

6.5.1 LIMIT

According to §15.407(b)

- (1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

6.5.2 MEASUREMENT EQUIPMENT USED

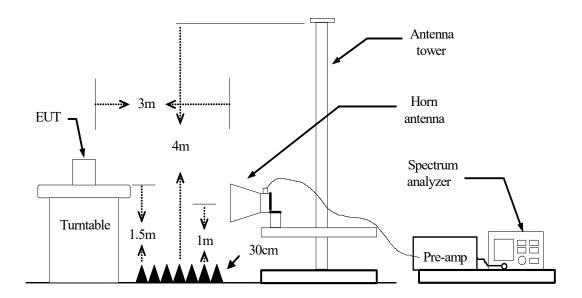
Radiated Emission Test Site 966(2)										
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration					
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017					
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017					
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017					
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017					
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017					
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017					
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017					
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017					
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R					
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R					
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R					
Controller	СТ	N/A	N/A	N.C.R	N.C.R					
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017					
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2								

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The FCC Site Registration number is 101879.
- 3. N.C.R = No Calibration Required.

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6.5.3 TEST CONFIGURATION



6.5.4 TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1 / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

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6.5.5 TEST RESULT

IEEE 802.11a mode / 5500 ~ 5700MHz

Antenna 0:

- Operating Frequency: 5500-5700MHz
 CH Low: 5500MHz, CH High: 5700MHz
- 3. 26dB bandwidth: CH Low: 19.61MHz, CH High: 19.57MHz
- 4. Frequency Range: 5490.1950MHz, 5709.7850MHz

Antenna 1:

- 1. Operating Frequency: 5500-5700MHz
- 2. CH Low: 5500MHz, CH High: 5700MHz
- 3. 26dB bandwidth: CH Low: 19.36MHz, CH High: 19.75MHz
- 4. Frequency Range: 5490.3200MHz, 5709.8750MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

Antenna 0:

- 1. Operating Frequency: 5745-5825MHz
- 2. CH Low: 5745MHz, CH High: 5825MHz
- 3. 26dB bandwidth: CH Low: 19.41MHz, CH High: 19.25MHz
- 4. Frequency Range: 5735.2950MHz, 5834.6250MHz

Antenna 1:

- 1. Operating Frequency: 5745-5825MHz
- 2. CH Low: 5745MHz, CH High: 5825MHz
- 3. 26dB bandwidth: CH Low: 19.83MHz, CH High: 19.70MHz
- 4. Frequency Range: 5735.0850MHz, 5834.8500MHz

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IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Antenna 0:

- 1. Operating Frequency: 5500-5700MHz
- 2. CH Low: 5500MHz, CH High: 5700MHz
- 3. 26dB bandwidth: CH Low: 19.79MHz, CH High: 19.76MHz
- 4. Frequency Range: 5490.1050MHz, 5709.8800MHz

Antenna 1:

- 1. Operating Frequency: 5500-5700MHz
- 2. CH Low: 5500MHz, CH High: 5700MHz
- 3. 26dB bandwidth: CH Low: 19.75MHz, CH High: 19.76MHz
- 4. Frequency Range: 5490.1250MHz, 5709.8800MHz

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Antenna 0:

- 1. Operating Frequency: 5745-5825MHz
- 2. CH Low: 5745MHz, CH High: 5825MHz
- 3. 26dB bandwidth: CH Low: 19.82MHz, CH High: 19.95MHz
- 4. Frequency Range: 5735.0900MHz, 5834.9750MHz

Antenna 1:

- 1. Operating Frequency: 5745-5825MHz
- 2. CH Low: 5745MHz, CH High: 5825MHz
- 3. 26dB bandwidth: CH Low: 19.89MHz, CH High: 19.82MHz
- 4. Frequency Range: 5735.0550MHz, 5834.9100MHz

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IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Antenna 0:

- 1. Operating Frequency: 5510-5670MHz
- 2. CH Low: 5510MHz, CH High: 5670MHz
- 3. 26dB bandwidth: CH Low: 39.08MHz, CH High: 39.09MHz
- 4. Frequency Range: 5490.4600MHz, 5689.5450MHz

Antenna 1:

- 1. Operating Frequency: 5510-5670MHz
- 2. CH Low: 5510MHz, CH High: 5670MHz
- 3. 26dB bandwidth: CH Low: 38.76MHz, CH High: 39.27MHz
- 4. Frequency Range: 5490.6200MHz, 5689.6350MHz

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Antenna 0:

- 1. Operating Frequency: 5755-5795MHz
- 2. CH Low: 5755MHz, CH High: 5795MHz
- 3. 26dB bandwidth: CH Low: 39.36MHz, CH High: 39.37MHz
- 4. Frequency Range: 5735.3200MHz, 5814.6850MHz

Antenna 1:

- 1. Operating Frequency: 5755-5795MHz
- 2. CH Low: 5755MHz, CH High: 5795MHz
- 3. 26dB bandwidth: CH Low: 38.84MHz, CH High: 39.27MHz
- 4. Frequency Range: 5735.5800MHz, 5814.6350MHz

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IEEE 802.11ac 80 mode / 5530MHz

Antenna 0:

1. Operating Frequency: 5530MHz

2. CH: 5530MHz

3. 26dB bandwidth: CH: 78.77MHz

4. Frequency Range: 5490.6150MHz, 5569.3850MHz

Antenna 1:

1. Operating Frequency: 5530MHz

2. CH: 5530MHz

3. 26dB bandwidth: CH: 78.76MHz

4. Frequency Range: 5490.6200MHz, 5569.3800MHz

IEEE 802.11ac 80 mode / 5775MHz

Antenna 0:

1. Operating Frequency: 5775MHz

2. CH: 5775MHz

3. 26dB bandwidth: CH: 78.94MHz

4. Frequency Range: 5735.5300MHz, 5814.4700MHz

Antenna 1:

1. Operating Frequency: 5775MHz

2. CH: 5775MHz

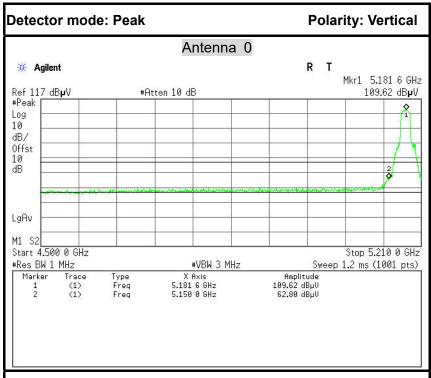
3. 26dB bandwidth: CH: 78.64MHz

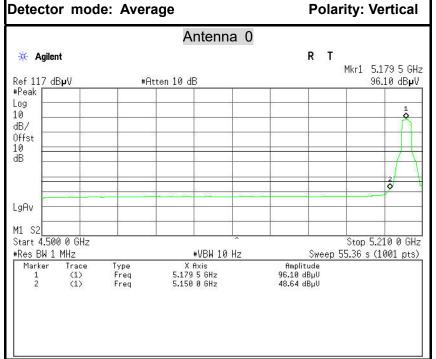
4. Frequency Range: 5735.6800MHz, 5814.3200MHz

Because the mentioned conditions the Fundamental Frequency Range was far away from the Restricted bands in the table published in 15.205,, the test is not applicable.

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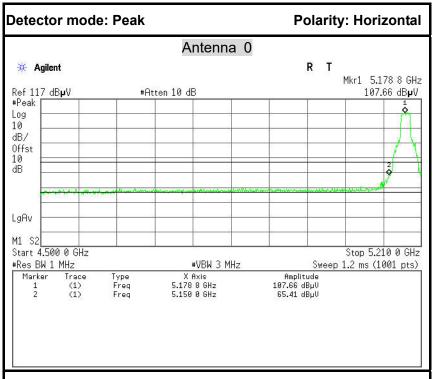
Test Plot | IEEE 802.11a mode / 5180MHz

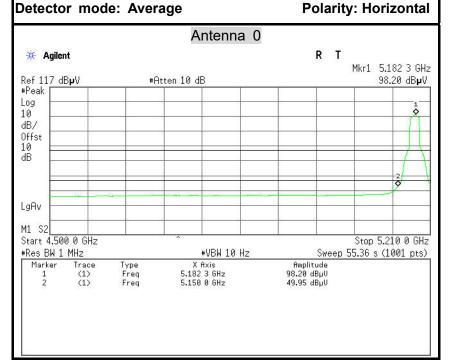




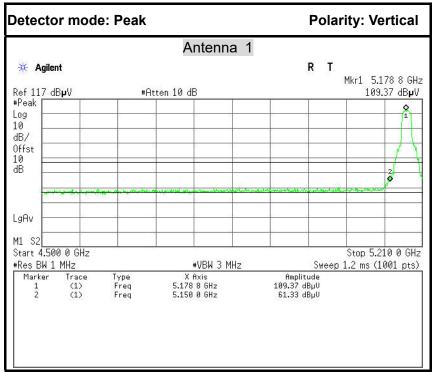


Reference No.: C161219Z09-RP1-2

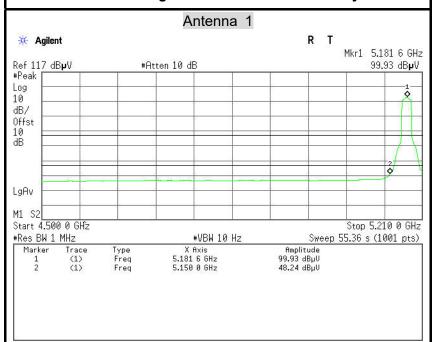




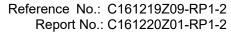
IEEE 802.11a mode / 5180MHz

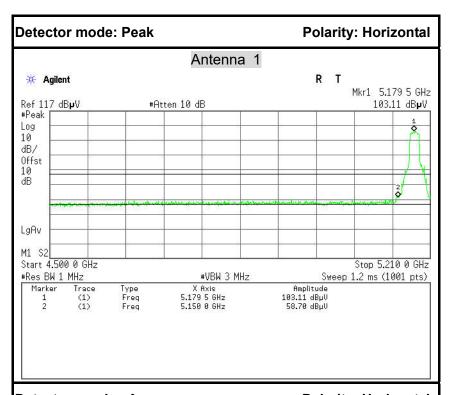


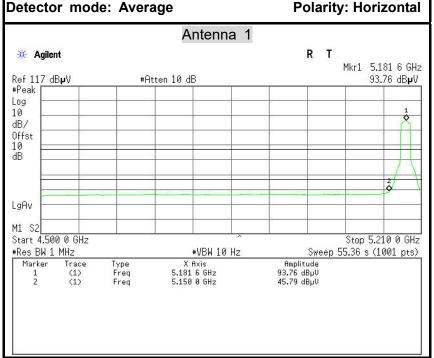
Detector mode: Average **Polarity: Vertical**



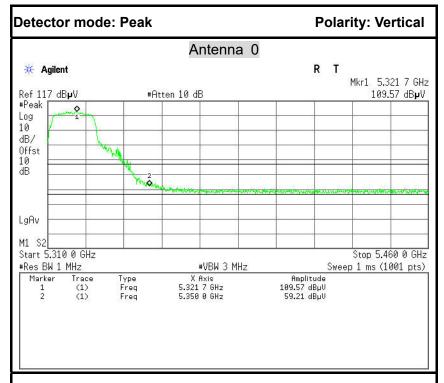
FCC ID: 2AF5PMX1200 Page 82 / 256 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

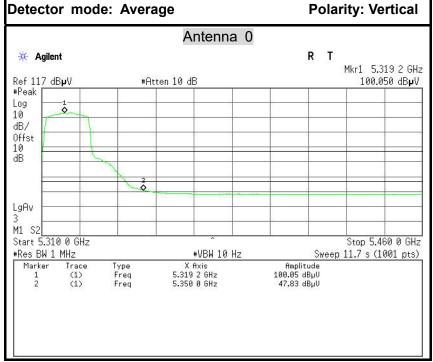




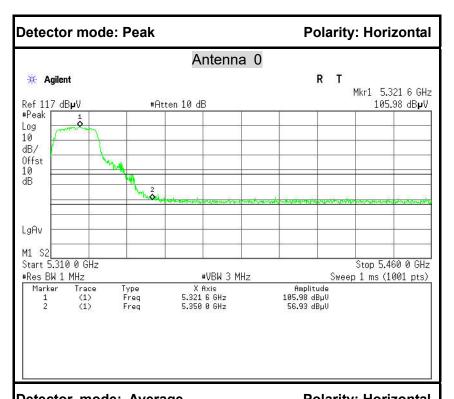


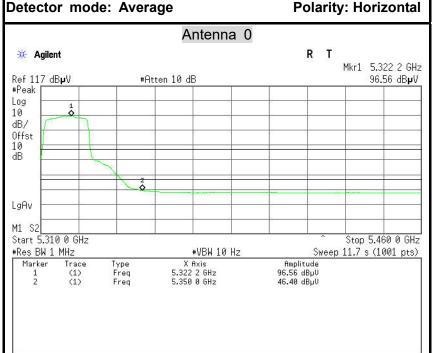
IEEE 802.11a mode / 5320MHz



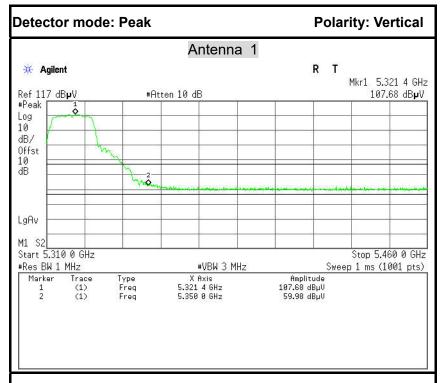






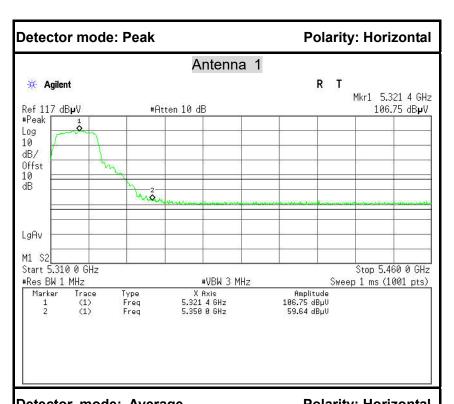


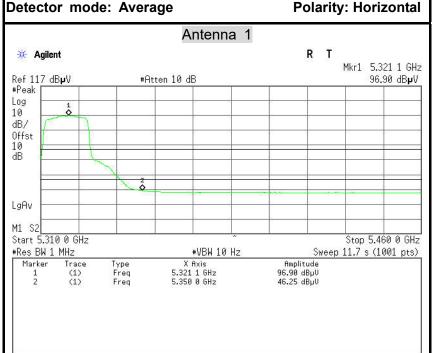
IEEE 802.11a mode / 5320MHz



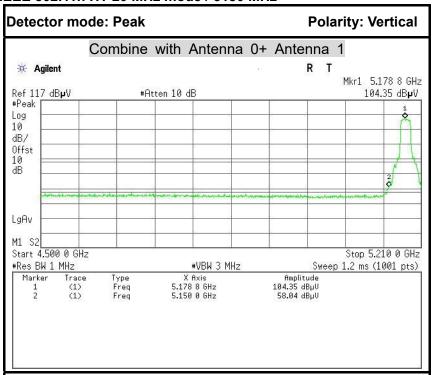
Detector mode: Average **Polarity: Vertical** Antenna 1 * Agilent R Т Mkr1 5.319 2 GHz Ref 117 dB**µ**V #Peak **|** 98.13 dBpV #Atten 10 dB Log 10 dB/ Offst 10 ďΒ LgAv M1 S2 Start 5.310 0 GHz Stop 5.460 0 GHz #Res BW 1 MHz #VBW 10 Hz Sweep 11.7 s (1001 pts) Type Freq Freq X Axis 5.319 2 GHz 5.350 0 GHz Amplitude 98.13 dBµV 46.81 dBµV Marker Trace (1) (1)

Compliance Certification Services (Shenzhen) Inc. Reference No.: C161219Z09-RP1-2 Report No.: C161220Z01-RP1-2

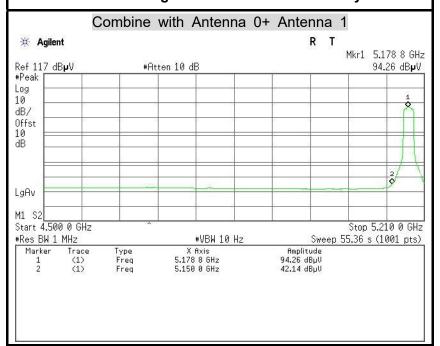


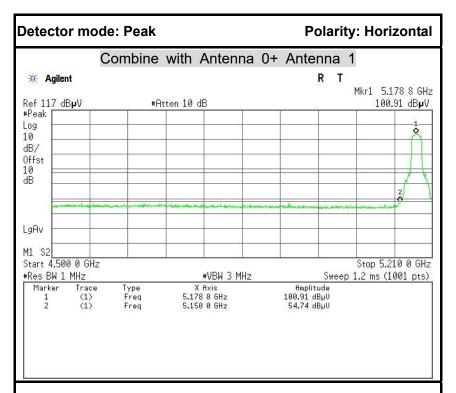


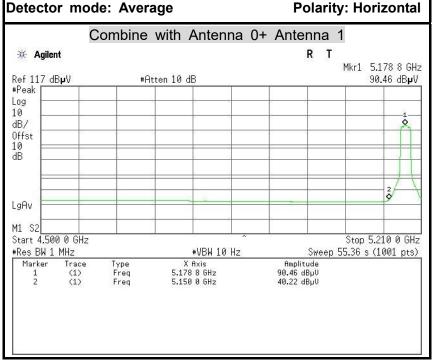
IEEE 802.11n HT 20 MHz mode / 5180 MHz



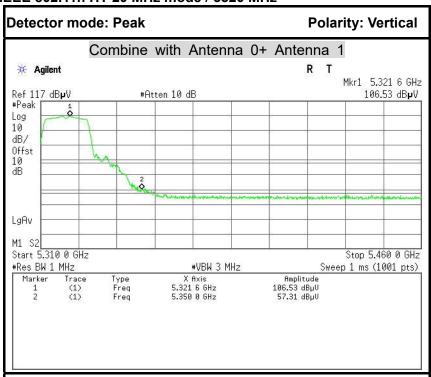




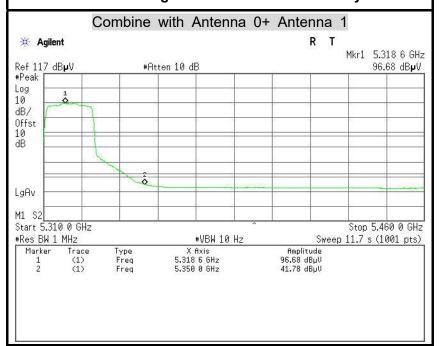




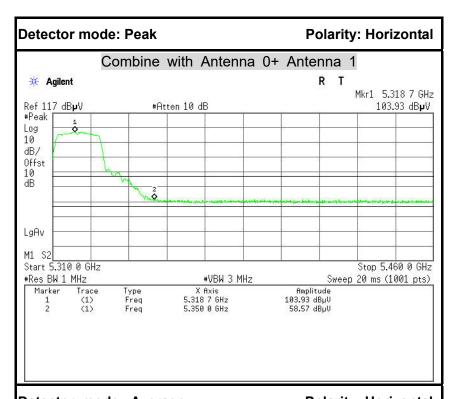
IEEE 802.11n HT 20 MHz mode / 5320 MHz

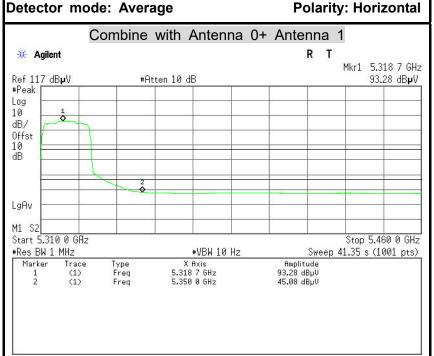






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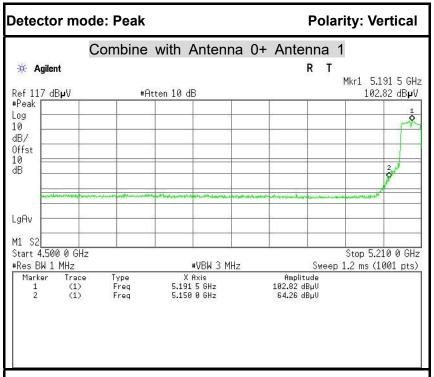




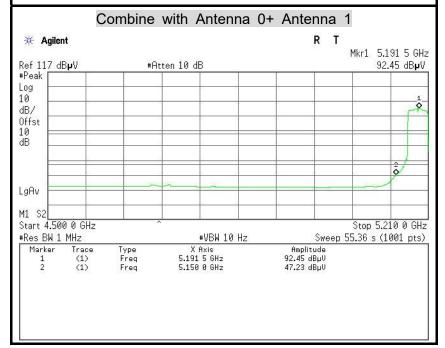
Report No.: C161220Z01-RP1-2

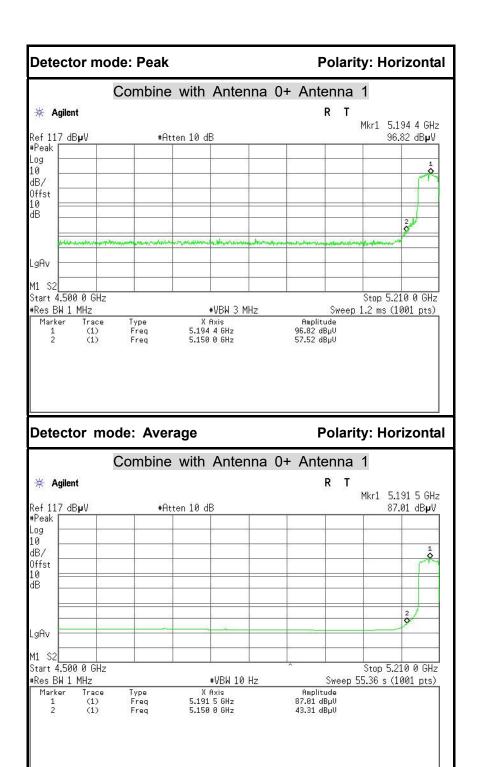
Reference No.: C161219Z09-RP1-2

IEEE 802.11n HT 40 MHz mode / 5190 MHz



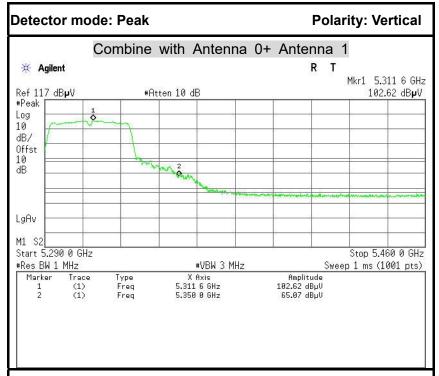
Detector mode: Average Polarity: Vertical



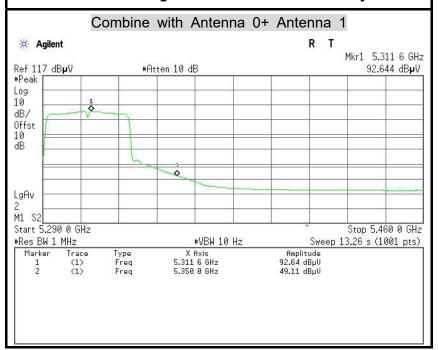


Services (Shenzhen) Inc. Reference No.: C161219Z09-RP1-2
Report No.: C161220Z01-RP1-2

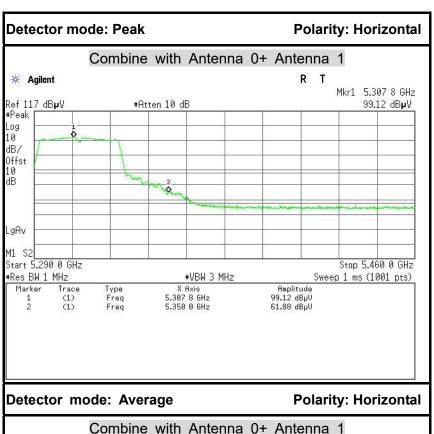
IEEE 802.11n HT 40 MHz mode / 5310 MHz

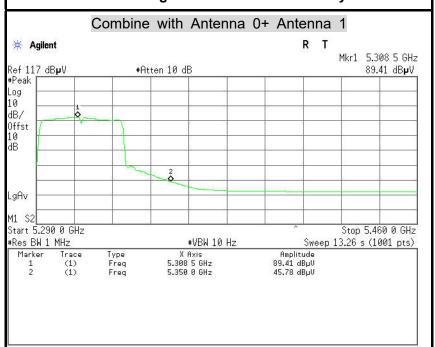


Detector mode: Average Polarity: Vertical



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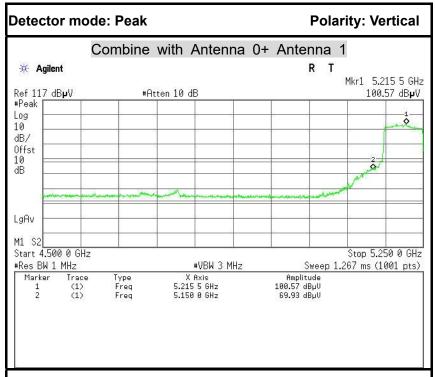




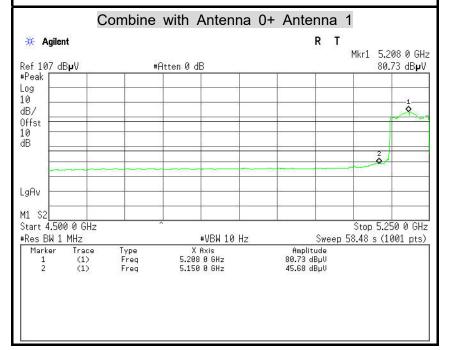
FCC ID: 2AF5PMX1200 Page 95 / 256 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

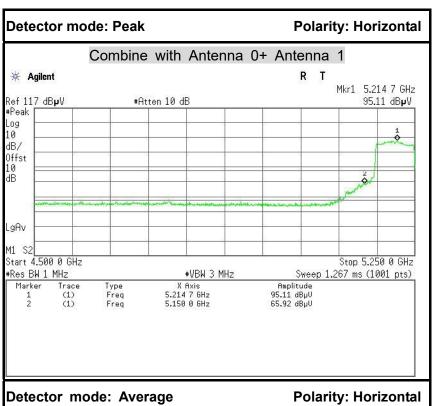
NZhen) Inc. Reference No.: C161219Z09-RP1-2 Report No.: C161220Z01-RP1-2

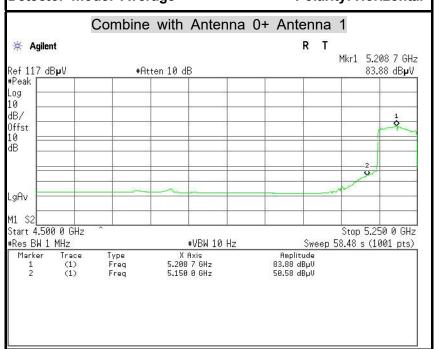
IEEE 802.11ac 80 mode / 5210 MHz



Detector mode: Average Polarity: Vertical

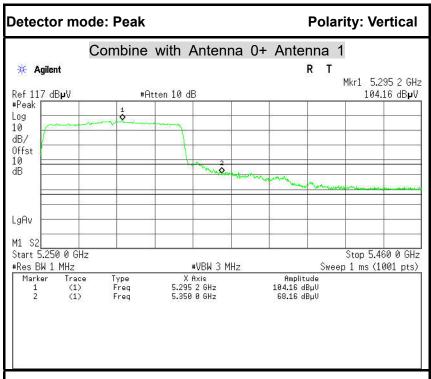




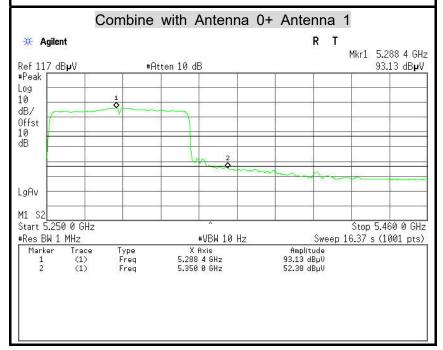


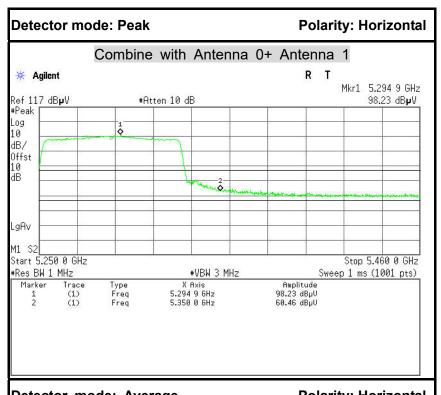
on Services (Shenzhen) Inc. Reference No.: C161219Z09-RP1-2
Report No.: C161220Z01-RP1-2

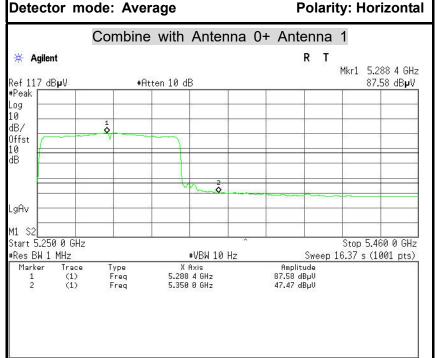
IEEE 802.11ac 80 mode / 5290 MHz



Detector mode: Average Polarity: Vertical







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6.6 PEAK POWER SPECTAL DENSITY

6.6.1 LIMIT

According to §15.407(a) & FCC R&O FCC 14-30

- (1) For the band 5.15-5.25 GHz.
- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 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 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (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.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

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(3) For the 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. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

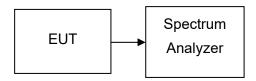
6.6.2MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

Remark: Each piece of equipment is scheduled for calibration once a year.

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6.6.3 TEST CONFIGURATION



6.6.4 TEST PROCEDURE

- Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. For devices operating in the bands 5.15-5.25 GHz, Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = 30MHz, Sweep=1ms

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- For devices operating in the bands 5.725-5.85 GHz, Set the spectrum analyzer as 3. RBW = 500kHz, VBW = 1.5MHz, Span = 30MHz, Sweep=1ms
- 4. Record the max. reading.
- Repeat the above procedure until the measurements for all frequencies are completed 5.

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6.6.5 TEST RESULTS

Test Data

Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	Frequency (dBr		Limit (dBm)	Ma	Result	
	(111112)	Antenna 0	Antenna 1	(uBiii)	Antenna 0	Antenna 1	
Low	5180	5.816	5.961		-11.184	-11.039	PASS
Mid	5200	5.643	5.856	17	-11.357	-11.144	PASS
High	5240	5.445	5.746		-11.555	-11.254	PASS

Test mode: IEEE 802.11a mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)		cvl I limit I		Mai	Margin		
	(111112)	Antenna 0	Antenna 1	(uBiii)	Antenna 0	Antenna 1			
Low	5260	7.482	4.713		-3.518	-6.287	PASS		
Mid	5300	7.474	5.427	11	-3.526	-5.573	PASS		
High	5320	7.371	5.344		-3.629	-5.656	PASS		

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PP (dE	SD Bm)	Limit (dBm)	Margin		Result
	(141112)	Antenna 0	Antenna 1	(ubiii)	Antenna 0	Antenna 1	
Low	5500	7.194	5.013		-3.806	-5.987	PASS
Mid	5580	8.278	5.169	11	-2.722	-5.831	PASS
High	5700	6.363	7.041		-4.637	-3.959	PASS

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)		PPSD (dBm)		Limit (dBm)	Mar	Result	
	(111112)	Antenna 0	Antenna 1		(aBiii)	Antenna 0	Antenna 1	
Low	5745	7.341	6.896	-3.01		-12.669	-13.114	PASS
Mid	5785	7.016	6.064	-3.01	17	-12.994	-13.946	PASS
High	5825	6.587	4.974	-3.01		-13.423	-15.036	PASS

Remark: factor =10*log10(500/RBW)

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Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)		SD Bm)	Total (dBm)	Limit (dBm)	Margin	Result
	(111112)	Antenna 0	Antenna 1	(abiii)	(aBiii)		
Low	5180	3.313	3.705	6.524		-10.476	PASS
Mid	5200	3.539	3.253	6.409	17.00	-10.591	PASS
High	5240	2.959	3.890	6.460		-10.540	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

Channel	Frequency	requency (dBm)		Total (dBm)	Limit (dBm)	Margin	Result
	(111112)	Antenna 0	Antenna 1	(aBiii)	(aBiii)		
Low	5260	4.049	5.259	7.706		-3.294	PASS
Mid	5300	7.822	1.686	8.768	11.00	-2.232	PASS
High	5320	7.773	1.709	8.733		-2.267	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)		PPSD (dBm)		Limit (dBm)	Margin	Result
	(141112)	Antenna 0	Antenna 1	(dBm)	(dBiii)		
Low	5500	7.315	4.579	9.169		-1.831	PASS
Mid	5580	7.867	4.772	9.600	11.00	-1.400	PASS
High	5700	7.381	6.641	10.037		-0.963	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margin	Result
	(1411 12)	Antenna 0	Antenna 1		(uDiii)	(abiii)		
Low	5745	7.850	6.508	-3.01	7.231		-9.769	PASS
Mid	5785	9.325	5.649	-3.01	7.865	17.00	-9.135	PASS
High	5825	9.772	5.781	-3.01	8.220		-8.780	PASS

Remark: factor =10*log10(500/RBW)

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Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	(uBiii)		Total (dBm)	Limit (dBm)	Margin	Result
	(12)	Antenna 0	Antenna 1	(42)	(42)		
Low	5190	4.440	2.501	6.588	17.00	-10.412	PASS
High	5230	3.546	1.972	5.840	17.00	-11.160	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margin	Result
	(12)	Antenna 0	Antenna 1	(42)	(4.2)		
Low	5270	4.702	2.798	6.864	11.00	-4.136	PASS
High	5310	3.473	3.414	6.454	11.00	-4.546	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)				Limit (dBm)	Margin	Result
	(111112)	Antenna 0	Antenna 1	(aBiii)	(aBiii)		
Low	5510	3.467	1.366	5.553		-5.447	PASS
Mid	5550	2.492	1.762	5.153	11.00	-5.847	PASS
High	5670	3.245	1.966	5.663		-5.337	PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margin	Result
	(101112)	Antenna 0	Antenna 1		(45111)	(uDiii)		
Low	5755	2.417	3.312	-3.01	2.888	17.00	-14.112	PASS
High	5795	5.146	2.665	-3.01	4.081		-12.919	PASS

Remark: factor =10*log10(500/RBW)

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Test mode: IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	(4.2)	(3.2)		
	5210	-0.465	-0.279	2.639	17.00	-14.361	PASS

Test mode: IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1	(42)	(42)		
	5290	-3.806	-2.365	-0.016	11.00	-11.016	PASS

Test mode: IEEE 802.11ac 80 mode / 5530MHz

	Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
l			Antenna 0	Antenna 1	(42)	(42)		
ĺ		5530	-2.054	-3.664	0.225	11.00	-10.775	PASS

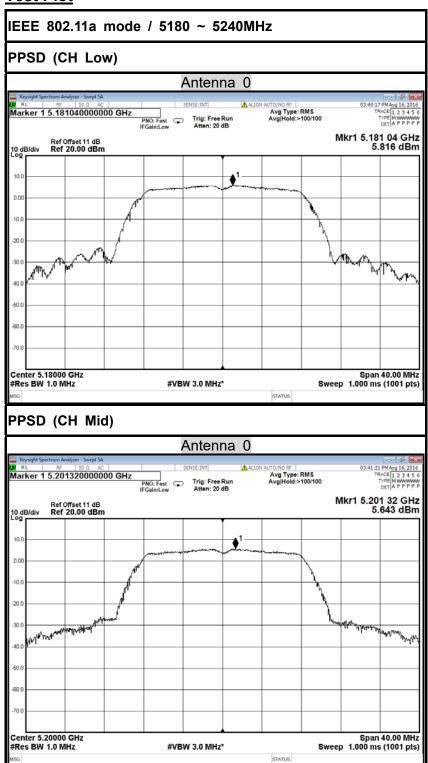
Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1		()	(4.2)		
	5775	1.206	-1.411	-3.01	0.092	17.00	-16.908	PASS

Remark: factor =10*log10(500/RBW)

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Test Plot



Span 40.00 MHz Sweep 1.000 ms (1001 pts)

Center 5.26000 GHz #Res BW 1.0 MHz

Center 5.32000 GHz

Span 40.00 MHz Sweep 1.000 ms (1001 pts)

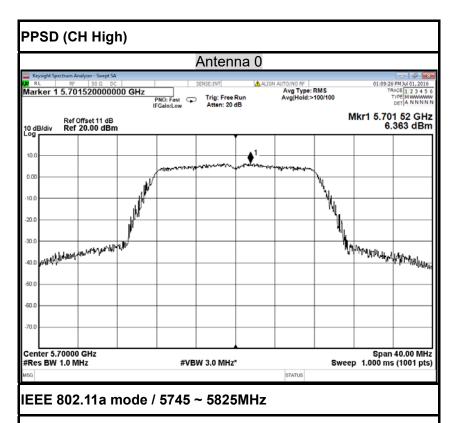
Report No.: C161220Z01-RP1-2

#VBW 3.0 MHz*

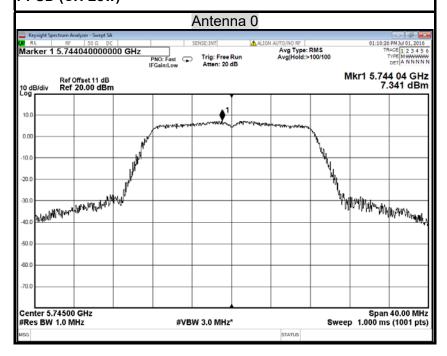
STATUS

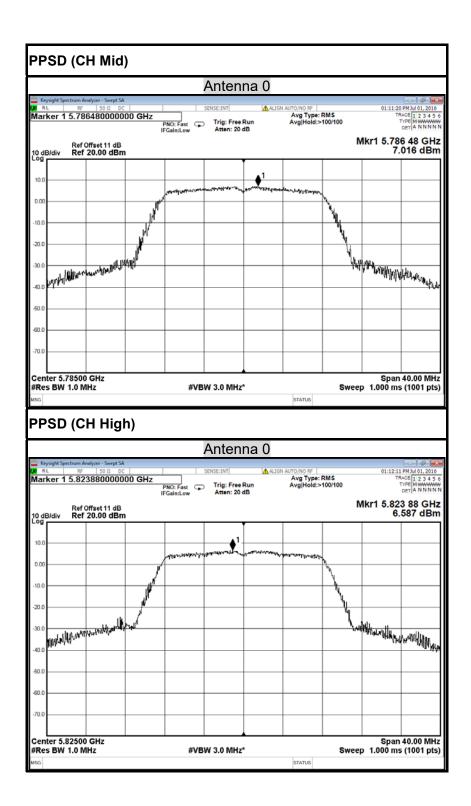
Span 40.00 MHz Sweep 1.000 ms (1001 pts)

Center 5.58000 GHz #Res BW 1.0 MHz



PPSD (CH Low)





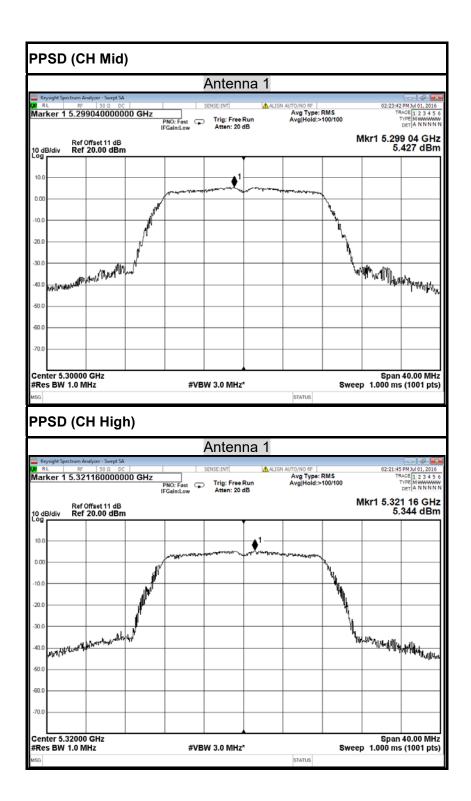
IEEE 802.11a mode / 5180 ~ 5240MHz PPSD (CH Low) Antenna 1 Marker 1 5.181240000000 GHz Avg Type: RMS Avg|Hold:>100/100 PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB Mkr1 5.181 24 GHz 5.961 dBm Ref Offset 11 dB Ref 20.00 dBm 0.00 The state of the s All literal and a part become place 40.0 Center 5.18000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz* PPSD (CH Mid) Antenna 1 Marker 1 5.1988000000000 GHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB Mkr1 5.198 80 GHz 5.856 dBm Ref Offset 11 dB Ref 20.00 dBm 10 dB/div 0.0 10. 30. PROPORTURAL PROPORTURAL 40. Center 5.20000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz*

STATUS

Span 40.00 MHz

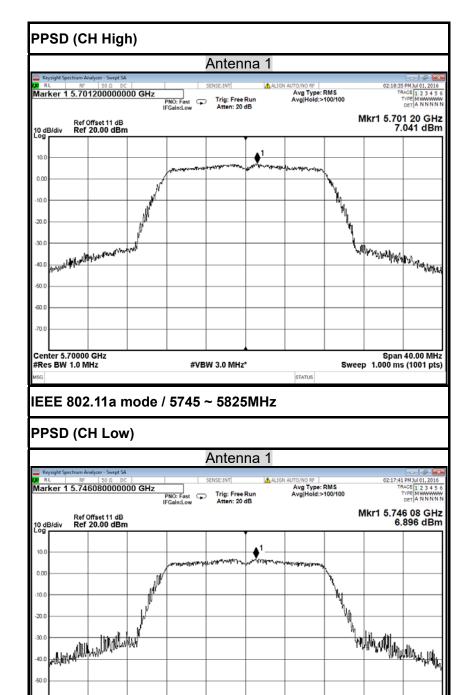
Sweep 1.000 ms (1001 pts)

Center 5.26000 GHz #Res BW 1.0 MHz



IEEE 802.11a mode / 5500 ~ 5700MHz PPSD (CH Low) Antenna 1 Marker 1 5.501120000000 GHz Avg Type: RMS Avg|Hold:>100/100 PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB Mkr1 5.501 12 GHz 5.013 dBm Ref Offset 11 dB Ref 20.00 dBm 0.00 THE WHITE AND THE STREET 40.0 Center 5.50000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz* PPSD (CH Mid) Antenna 1 Marker 1 5.581320000000 GHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB Mkr1 5.581 32 GHz 5.169 dBm Ref Offset 11 dB Ref 20.00 dBm 0.0 10. 30. 40. Center 5.58000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz*

STATUS



STATUS

Span 40.00 MHz Sweep 1.000 ms (1001 pts)

Center 5.74500 GHz #Res BW 1.0 MHz

Sweep 1.000 ms (1001 pts)

#Res BW 1.0 MHz

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz PPSD (CH Low) Antenna 0 Marker 1 5.178560000000 GHz Avg Type: RMS Avg|Hold>100/100 PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB DET A N N N N Mkr1 5.178 56 GHz 3.313 dBm Ref Offset 11 dB Ref 20.00 dBm 10 dB/div -20. 40.1 -50. Center 5.18000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts) #VBW 3.0 MHz* STATUS PPSD (CH Mid) Antenna 0 Marker 1 5.201200000000 GHz Avg Type: RMS Avg|Hold>100/100 PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB DET A N N N N Mkr1 5.201 20 GHz 3.539 dBm Ref Offset 11 dB Ref 20.00 dBm -10. -20. -50 Center 5.20000 GHz #Res BW 1.0 MHz Span 40.00 MHz Sweep 1.000 ms (1001 pts)

Reference No.: C161219Z09-RP1-2 Report No.: C161220Z01-RP1-2

#VBW 3.0 MHz*

STATUS

Span 40.00 MHz

Sweep 1.000 ms (1001 pts)

Center 5.26000 GHz #Res BW 1.0 MHz