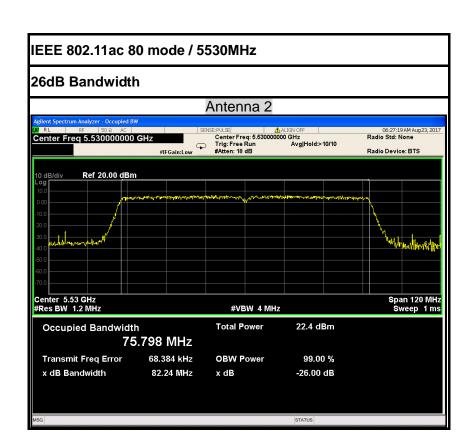


FCC ID: VW7SR616A Page 66 / 331

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6.2 6dB BANDWIDTH MEASUREMENT

6.2.1 LIMITS

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Report No.: C170704Z01-RP1-2

6.2.2 TEST INSTRUMENTS

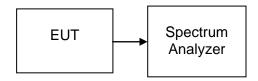
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018

6.2.3 TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

6.2.4 TEST SETUP



FCC ID: VW7SR616A Page 68 / 331

6.2.5 TEST RESULTS

No non-compliance noted

Test Data

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

Channel	Channel Frequency		6dB Bandwidth(B) (MHz)			Test Result
• · · · · · · · · · · · · · · · · · · ·	(MHz)	Antenna 0	Antenna 1	Antenna 2	(kHz)	Tool Hoodil
Low	5745	16.37	16.37	16.36		PASS
Mid	5785	16.44	16.38	16.34	>500	PASS
High	5825	16.37	16.37	16.39		PASS

Report No.: C170704Z01-RP1-2

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

	Frequency	60	dB Bandwidth(Limit		
Channel	(MHz)	Antenna 0	(MHz) Antenna 1	Antenna 2	(kHz)	Test Result
Low	5745	17.63	17.62	17.64		PASS
Mid	5785	17.60	17.61	17.60	>500	PASS
High	5825	17.65	17.65	17.54		PASS

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

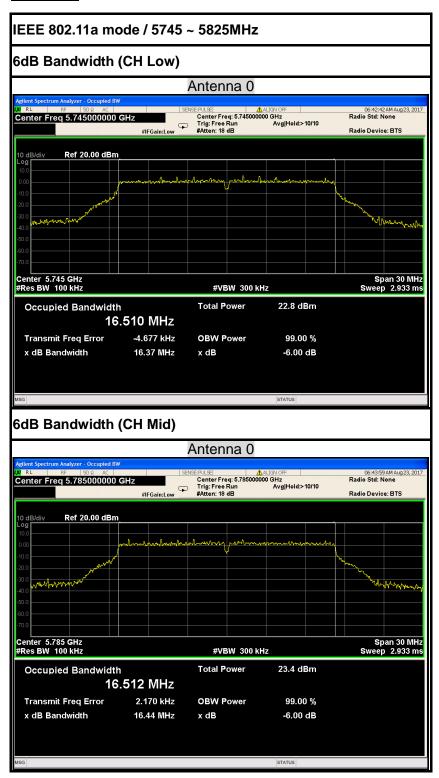
Channel	Frequency	6dB Bandwidth(B) (MHz)		Limit	Test Result	
<u> </u>	(MHz)		Antenna 1	Antenna 2	(kHz)	
Low	5755	36.07	36.38	36.37	. F00	PASS
High	5795	36.37	36.12	36.12	>500	PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency	6dB Bandwidth(B) (MHz)		Limit	Test Result	
Gilainici	(MHz)	Antenna 0	Antenna 1	Antenna 2	(kHz)	1001 Hoodin
	5775	75.62	75.33	75.62	>500	PASS

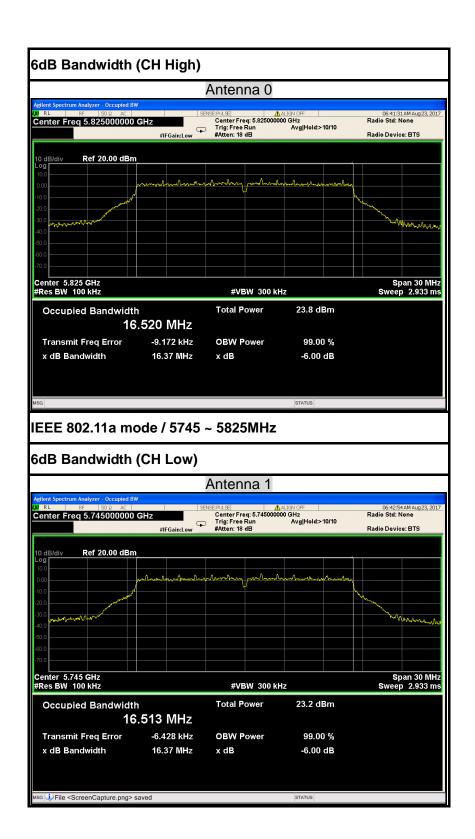
FCC ID: VW7SR616A Page 69 / 331

Test Plot

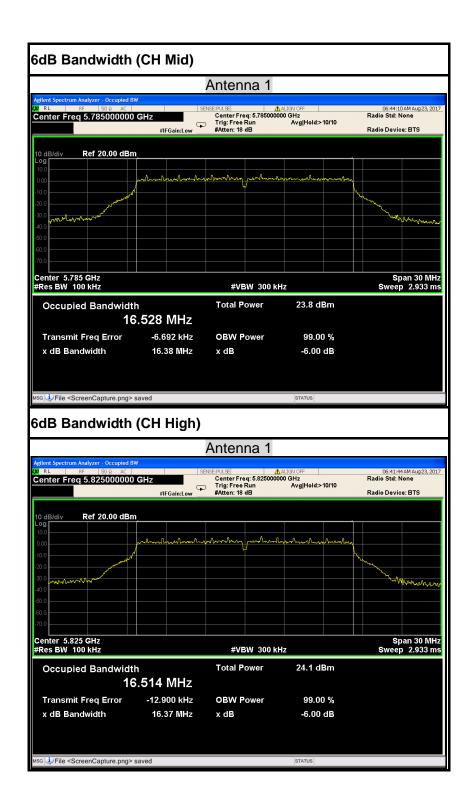


FCC ID: VW7SR616A Page 70 / 331

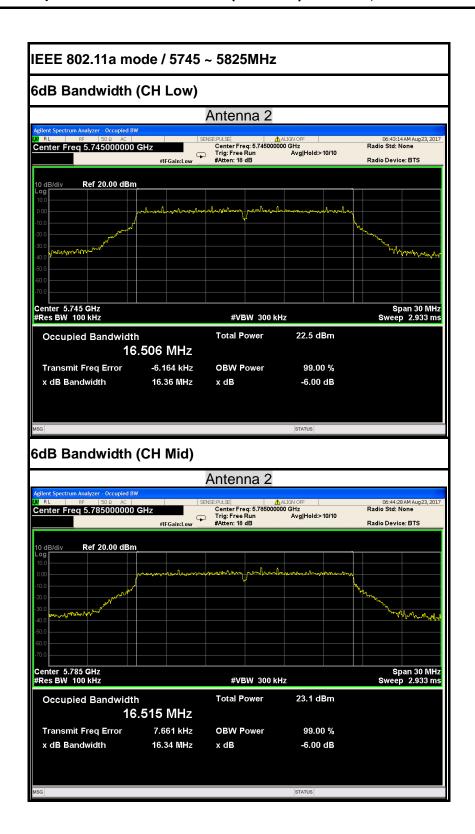
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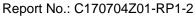


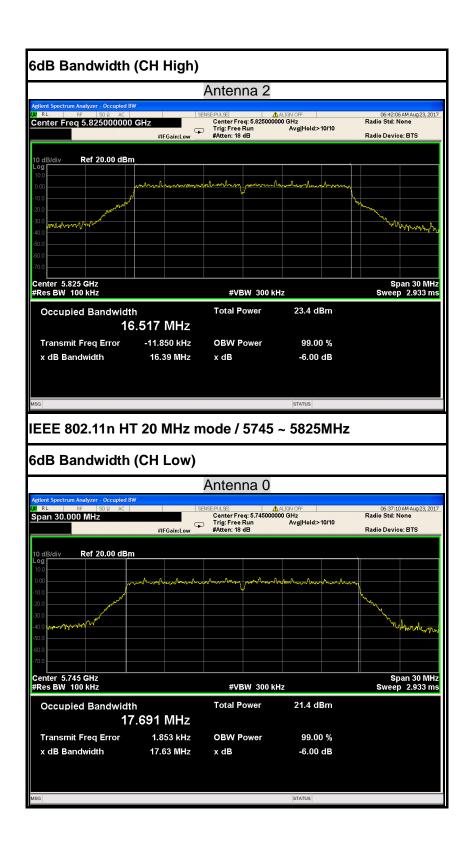
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FCC ID: VW7SR616A Page 72 / 331

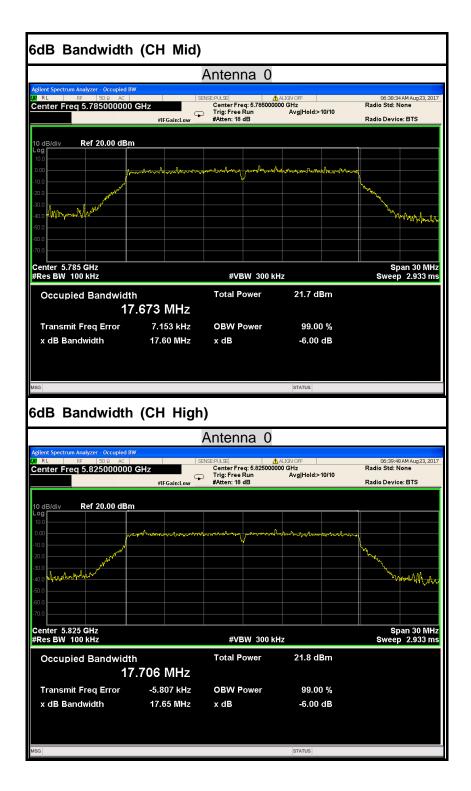


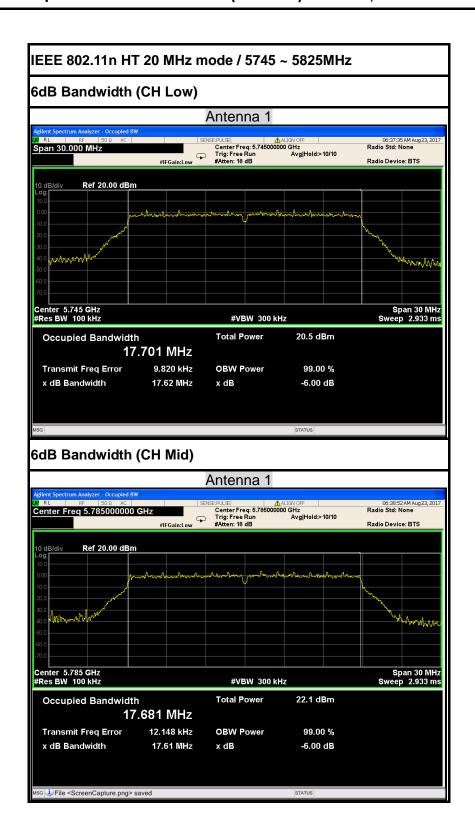




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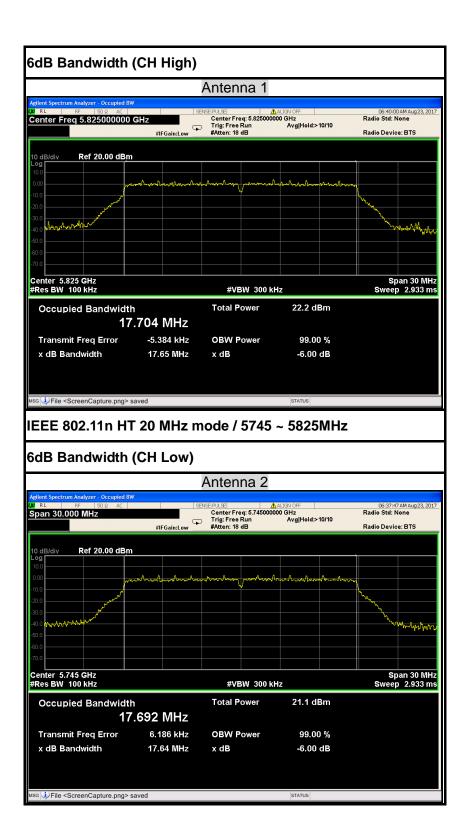




FCC ID: VW7SR616A Page 76 / 331

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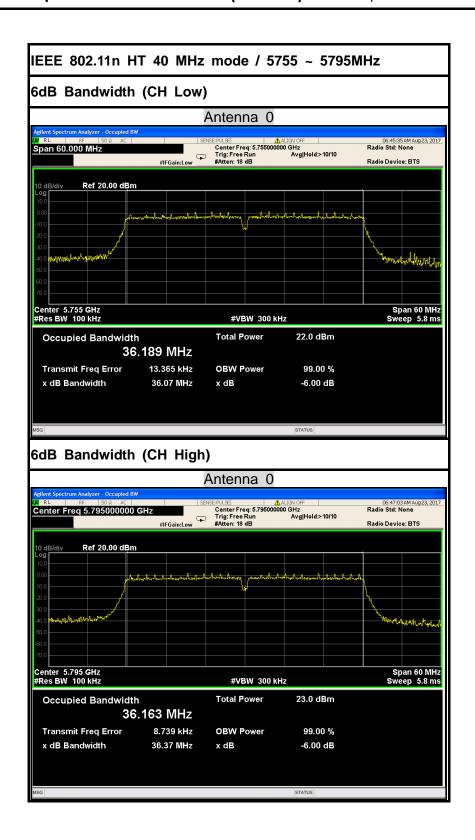
FCC ID: VW7SR616A Page 77 / 331

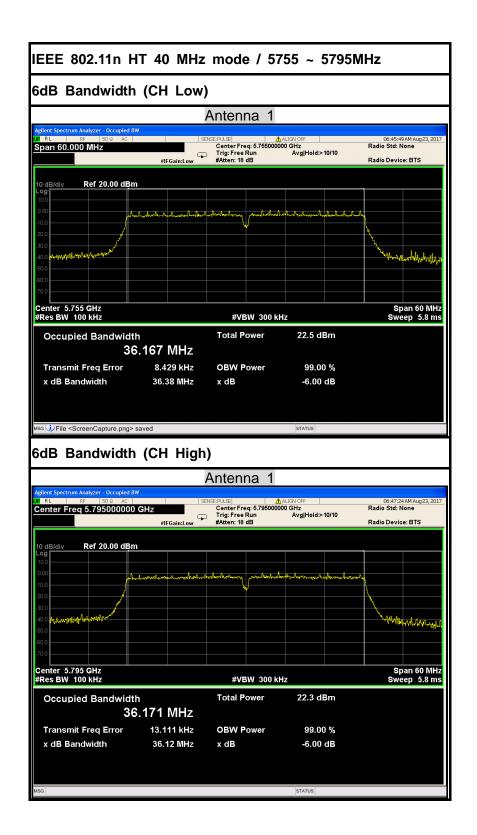
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6dB Bandwidth (CH Mid) Antenna 2 Center Freq: 5.78500000 GHz Trig: Free Run #IFGain:Low #Atten: 18 dB Avg|Hold>10/10 06:39:11 AM Aug 23, 2017 Radio Std: None Radio Device: BTS Ref 20.00 dBm Span 30 MHz Sweep 2.933 ms Center 5.785 GHz #Res BW 100 kHz #VBW 300 kHz **Total Power** 20.8 dBm Occupied Bandwidth 17.697 MHz Transmit Freq Error 12.335 kHz **OBW Power** 99.00 % x dB Bandwidth 17.60 MHz -6.00 dB x dB 6dB Bandwidth (CH High) Antenna 2 Center Freq: 5.825000000 GHz Trig: Free Run #Atten: 18 dB ALIGN OFF Avg|Hold>10/10 06:40:20 AM Aug 23, 2017 Radio Std: None Center Freq 5.825000000 GHz Radio Device: BTS Ref 20.00 dBm Span 30 MHz Sweep 2.933 ms Center 5.825 GHz #Res BW 100 kHz #VBW 300 kHz 21.4 dBm **Total Power** Occupied Bandwidth 17.694 MHz Transmit Freq Error -6.819 kHz **OBW Power** 99.00 % x dB Bandwidth 17.54 MHz x dB -6.00 dB

FCC ID: VW7SR616A Page 78 / 331

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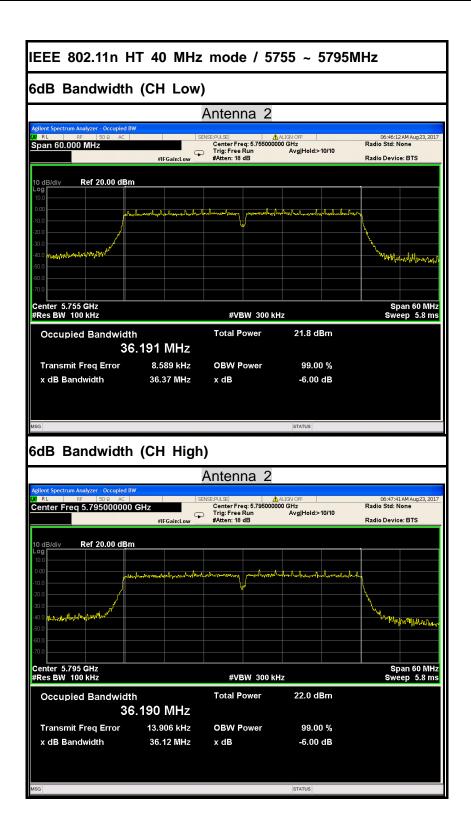




FCC ID: VW7SR616A Page 80 / 331

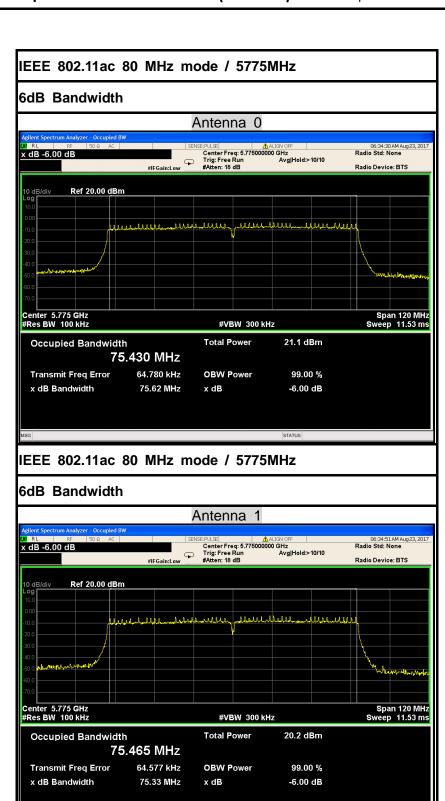
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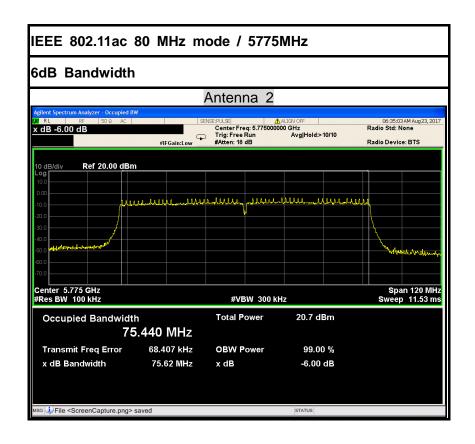




FCC ID: VW7SR616A Page 81 / 331

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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 UNII devices, the IEEE 802.11a mode is used.

Report No.: C170704Z01-RP1-2

MEASUREMENT PARAMETERS

Measurement 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				

FCC ID: VW7SR616A Page 84 / 331

TEST RESULTS

Antenna 0

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz	
Conducted power [dBm] Measured with OFDM modulation		2.73	3.16	
Radiated power [dBm] Measured with OFDM modulation		5.26	5.81	
Gain [dBi] Calculated		2.53	2.65	
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

Report No.: C170704Z01-RP1-2

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz	
Conducted power [dBm] Measured with OFDM modulation		5.72	5.80	
Radiated power [dBm] Measured with OFDM modulation		8.21	8.51	
Gain [dBi] Calculated		2.49 2.71		
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz	
Conducted power [dBm] Measured with OFDM modulation		4.96	4.74	
Radiated power [dBm] Measured with OFDM modulation		7.25	7.15	
Gain [dBi] Calculated		2.29	2.41	
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz	
Conducted power [dBm] Measured with OFDM modulation		5.28	5.18	
Radiated power [dBm] Measured with OFDM modulation		7.23	7.31	
Gain [dBi] Calculated		1.95	2.13	
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

FCC ID: VW7SR616A Page 85 / 331

Antenna 1

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz	
Conducted power [dBm] Measured with OFDM modulation		2.90	3.04	
Radiated power [dBm] Measured with OFDM modulation		5.15	5.26	
Gain [dBi] Calculated		2.25 2.22		
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

Report No.: C170704Z01-RP1-2

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz				
Conducted power with OFDM modu		5.77	5.55				
Radiated power [own with OFDM modules]		7.42	7.18				
Gain [dBi] Calculated		1.65	1.63				
Measurement und	certainty	± 1.5 dB (cond.) / ± 3 dB (rad.)					

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power with OFDM modul		4.79	4.77
Radiated power [c		6.19	7.26
Gain [dBi] Calculated		1.40	2.49
Measurement und	certainty	± 1.5 dB (cond.) / ± 3 dB (rad.)

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power with OFDM modul		5.34	5.16
Radiated power [c		7.15	7.26
Gain [dBi] Calculated		1.81	2.10
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)

FCC ID: VW7SR616A Page 86 / 331 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Antenna 2

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz				
Conducted power with OFDM modu		2.32	2.42				
Radiated power [c with OFDM modu		4.82	5.18				
Gain [dBi] Calculated		2.50	2.76				
Measurement und	certainty	± 1.5 dB (cond.) / ± 3 dB (rad.)					

Report No.: C170704Z01-RP1-2

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power with OFDM modul		5.55	5.42
Radiated power [c		7.53	7.89
Gain [dBi] Calculated		1.98	2.47
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power with OFDM modu		5.18	5.05
Radiated power [c with OFDM modu		7.25	7.26
Gain [dBi] Calculated		2.07	2.21
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V_{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power with OFDM modul		5.54	5.34
Radiated power [d with OFDM modul		7.26	7.26
Gain [dBi] Calculated		1.72	1.92
Measurement unc	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)

FCC ID: VW7SR616A Page 87 / 331

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).

Report No.: C170704Z01-RP1-2

- (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.

FCC ID: VW7SR616A Page 88 / 331

(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.

Report No.: C170704Z01-RP1-2

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.

FCC ID: VW7SR616A Page 89 / 331 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Specified Limit of the Output Power

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

Channel	Frequency (MHz)		26 dB Bandwidth (B) (MHz) Antenna			10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	0 1 2			1	2	0	1	2	
Low	5260	21.47	21.47	21.19	13.32	13.32	13.26	24.32	24.32	24.26	24.00	24.00	24.00	
Mid	5300	21.35	21.34	21.11	13.29	13.29	13.24	24.29	24.29	24.24	24.00	24.00	24.00	
High	5320	21.46	21.17	21.13	13.32	13.26	13.25	24.32	24.26	24.25	24.00	24.00	24.00	

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

Channel	Frequency (MHz)		Bandw (MHz) Antenn			10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0 1 2			0	1	2	0	1	2	
Low	5500	21.01	21.20	21.19	13.22	13.26	13.26	24.22	24.26	24.26	24.00	24.00	24.00	
Mid	5580	21.01	21.13	21.10	13.22	13.25	13.24	24.22	24.25	24.24	24.00	24.00	24.00	
High	5700	21.41	21.29	21.40	13.31	13.28	13.30	24.31	24.28	24.30	24.00	24.00	24.00	

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

Channel	Frequency (MHz)		26 dB Bandwidth (B) (MHz) Antenna			10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	1	2	0	1	2	0	1	2	
Low	5260	21.33	21.23	21.33	13.29	13.27	13.29	24.29	24.27	24.29	24.00	24.00	24.00	
Mid	5300	21.24	21.35	21.25	13.27	13.29	13.27	24.27	24.29	24.27	24.00	24.00	24.00	
High	5320	21.33	20.98	21.36	13.29	13.22	13.30	24.29	24.22	24.30	24.00	24.00	24.00	

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

Channel	Frequency (MHz)		26 dB Bandwidth (B) (MHz) Antenna			10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	0 1 2			1	2	0	1	2	
Low	5500	21.24	21.26	21.23	13.27	13.28	13.27	24.27	24.28	24.27	24.00	24.00	24.00	
Mid	5580	21.26	21.07	21.32	13.28	13.24	13.29	24.28	24.24	24.29	24.00	24.00	24.00	
High	5700	21.39	21.46	21.45	13.30	13.32	13.31	24.30	24.32	24.31	24.00	24.00	24.00	

FCC ID: VW7SR616A Page 90 / 331

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

Channel	Frequency (MHz)		Bandw (MHz) Antenn	idth (B) a		10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	0 1 2		0	1	2	0	1	2	
Low	5270	40.34	40.51	40.32	16.06	16.08	16.06	27.06	27.08	27.06	24.00	24.00	24.00	
High	5310	40.25	40.63	40.32	16.05	16.09	16.06	27.05	27.09	27.06	24.00	24.00	24.00	

Report No.: C170704Z01-RP1-2

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

Channel	Frequency (MHz)	(MHz) Antenna			10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	1	2	0	1	2	0	1	2
Low	5510	40.37	40.64	40.23	16.06	16.09	16.05	27.06	27.09	27.05	24.00	24.00	24.00
Mid	5550	40.25	40.65	40.65	16.05	16.09	16.09	27.05	27.09	27.09	24.00	24.00	24.00
High	5670	40.16	40.43	40.27	16.04	16.07	16.05	27.04	27.07	27.05	24.00	24.00	24.00

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz) Antenna				10*Log(B) (dB) Antenna			11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna		
		0	1	2	0	1	2	0	1	2	0	1	2	
	5290	81.94	82.01	81.70	19.13	19.14	19.12	30.13	30.14	30.12	24.00	24.00	24.00	

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz) Antenna			10*Log(B) (dB) Antenna		11 + 10*Log(B) (dBm) Antenna			Maximum Conducted Output Power Limit (dBm) Antenna			
	0		1	2	0	1	2	0	1	2	0	1	2
	5530	82.42	82.66	82.24	19.16	19.17	19.15	30.16	30.17	30.15	24.00	24.00	24.00

FCC ID: VW7SR616A Page 91 / 331

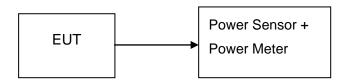
6.4.2 MEASUREMENT EQUIPMENT USED

	ame of uipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Pow	er Meter	Anritsu	ML2495A	1204003	02/21/2017	02/20/2018
Pow	er Sensor	Anritsu	MA2411B	1126150	02/21/2017	02/20/2018

Report No.: C170704Z01-RP1-2

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

6.4.3 TEST CONFIGURATIONS



6.4.4 TEST PROCEDURE

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

6.4.5 TEST RESULTS

No non-compliance noted

FCC ID: VW7SR616A Page 92 / 331

6.4.6 TEST DATA

IEEE 802.11a mode / 5180 ~ 5240MHz

Channel	(MHz)		Output Po (dBm)	wer	AV	G Output Po (W)	wer	Limit (dBm)	Result
	(1411 12)	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	(uBiii)	
Low	5180	15.94	16.13	15.55	0.03926	0.04102	0.03589		PASS
Mid	5200	16.12	16.09	15.56	0.04093	0.04064	0.03597	30.00	PASS
High	5240	16.39	16.30	15.68	0.04355	0.04266	0.03698		PASS

IEEE 802.11a mode / 5260~ 5320MHz

Channel	Channel Frequency (MHz)		Output Po (dBm)	wer	AV	G Output Po (W)	wer	Limit (dBm)	Result
	(141112)	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	(aBiii)	
Low	5260	19.04	19.09	18.81	0.08017	0.08110	0.07603		PASS
Mid	5300	19.18	18.91	18.54	0.08279	0.07780	0.07145	24.00	PASS
High	5320	19.12	18.81	18.67	0.08166	0.07603	0.07362		PASS

IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVO	AVG Output Power (dBm)		AV	G Output Po (W)	wer	Limit (dBm)	Result
	(111112)	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	(uBiii)	
Low	5500	18.18	18.05	18.44	0.06577	0.06383	0.06982		PASS
Mid	5580	18.33	18.23	18.40	0.06808	0.06653	0.06918	24.00	PASS
High	5700	18.05	18.05	18.35	0.06383	0.06383	0.06839		PASS

IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	nel Frequency (MHz)		G Output Po (dBm)	wer	AV	G Output Po (W)	wer	Limit (dBm)	Result
	(141112)	Antenna 0	Antenna 1	Antenna 2	Antenna 0	Antenna 1	Antenna 2	(aBiii)	
Low	5745	18.55	18.61	18.74	0.07161	0.07261	0.07482		PASS
Mid	5785	18.42	18.39	18.74	0.06950	0.06902	0.07482	30.00	PASS
High	5825	18.38	18.42	18.65	0.06887	0.06950	0.07328		PASS

FCC ID: VW7SR616A Page 93 / 331 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

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

Channel	Channel Frequency (MHz)		-	out Power Bm)		AVG Output Power (W)	Limit (dBm)	Result
	(141112)	Antenna 0	Antenna 1	Antenna 2	Total	Tower (W)	(aBiii)	
Low	5180	7.41	7.88	8.00	12.54	0.01796		PASS
Mid	5200	7.40	7.58	8.04	12.45	0.01759	28.23	PASS
High	5240	7.34	7.61	7.96	12.42	0.01744		PASS

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

Channel	(MHz)		AVG Outp (dE	out Power Bm)		AVG Output Power (W)	Limit (dBm)	Result
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	i olioi (ii)	(aBiii)	
Low	5260	12.61	12.84	16.66	19.23	0.08381		PASS
Mid	5300	12.46	12.43	16.60	19.08	0.08083	22.23	PASS
High	5320	12.42	12.41	16.55	19.03	0.08006		PASS

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

Channel	Frequency (MHz)		-	out Power Bm)		AVG Output Power (W)	Limit (dBm)	Result
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	i olici (ii)	(uBiii)	
Low	5500	16.67	16.39	15.80	21.07	0.12802		PASS
Mid	5580	16.28	16.37	15.85	20.94	0.12427	22.23	PASS
High	5700	16.40	16.10	15.81	20.88	0.12250		PASS

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

Channel	Frequency (MHz)		AVG Outp (dE	out Power Bm)		AVG Output Power (W)	Limit (dBm)	Result
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	i olioi (ii)	(aBiii)	
Low	5745	16.58	16.55	16.35	21.27	0.13384		PASS
Mid	5785	16.60	16.48	16.14	21.18	0.13129	28.23	PASS
High	5825	16.33	16.33	16.25	21.07	0.12808		PASS

FCC ID: VW7SR616A Page 94 / 331 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services. Compliance Certification Services (Snenznen) Inc. Report No.: C170704Z01-RP1-2

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

Channel	Frequency (MHz)			out Power Bm)	AVG Output Power (W)	Limit (dBm)	Result	
	(1411 12)	Antenna 0	Antenna 1	Antenna 2	Total	Tower (W)	(42)	
Low	5190	10.52	10.23	10.68	15.25	0.03351	28 23	PASS
High	5230	10.46	10.04	10.86	15.24	0.03340	28.23	PASS

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

Channel	Frequency (MHz)		AVG Outp	out Power Bm)	AVG Output Power (W)	Limit (dBm)	Result	
	(141112)	Antenna 0	Antenna 1	Antenna 2	Total	Tower (W)	(uBiii)	
Low	5270	13.83	14.14	15.96	19.52	0.08954	22.23	PASS
High	5310	14.03	13.94	15.94	19.51	0.08933	22.23	PASS

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

Channel	Frequency (MHz)		-	out Power Bm)	AVG Output Power (W)	Limit (dBm)	Result	
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	i olioi (ii)	(33111)	
Low	5510	16.69	16.96	14.53	20.96	0.12470		PASS
Mid	5550	16.67	16.94	14.12	20.85	0.12171	22.23	PASS
High	5670	16.73	16.61	14.13	20.75	0.11879		PASS

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

Channel	Frequency (MHz)		AVG Output Power (dBm)				Limit (dBm)	Result
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	Power (W)	(uBiii)	
Low	5775	16.74	16.64	14.18	20.77	0.11952	28 23	PASS
High	5795	16.77	16.75	14.12	20.82	0.12067	28.23	PASS

FCC ID: VW7SR616A Page 95 / 331

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IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	(dBm)		AVG Output Power (W)	Limit (dBm)	Result		
	(2)	Antenna 0	Antenna 1	Antenna 2	Total	1 01101 (11)	(42)	
	5210	13.10	13.23	13.05	17.90	0.06164	28.23	PASS

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total	1 0 11 0 1 (11)	(3.3111)	
	5290	15.62	15.54	14.01	19.89	0.09746	22.23	PASS

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)		AVG Outp (dE		AVG Output Power (W)	Limit (dBm)	Result	
	(111112)	Antenna 0	Antenna 1	Antenna 2	Total	i olioi (ii)	(uBiii)	
	5530	16.42	16.45	14.22	20.59	0.11443	22.23	PASS

IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)				AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Antenna 2	Total	1 0 11 0 1 (11)	(4.2111)	
	5775	16.36	16.72	14.15	20.65	0.11624	28.23	PASS

FCC ID: VW7SR616A Page 96 / 331

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.

Report No.: C170704Z01-RP1-2

6.5.2 MEASUREMENT EQUIPMENT USED

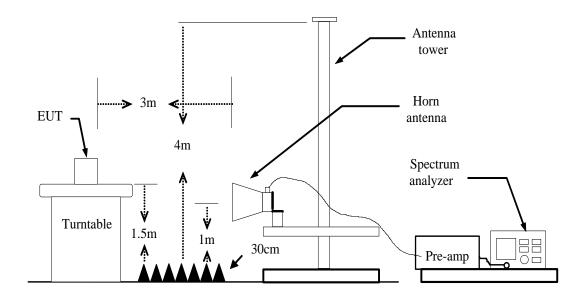
	Radiated Er	mission Test S	Site 966 (2)		
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/27/2017	02/27/2018
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/27/2017	02/27/2018
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	02/21/2017	02/20/2018
Test S/W	FARAD		LZ-RF / CCS	S-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.

FCC ID: VW7SR616A Page 97 / 331

6.5.3 TEST CONFIGURATION



Report No.: C170704Z01-RP1-2

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=1/T / Sweep=AUTO / Detector=Peak
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

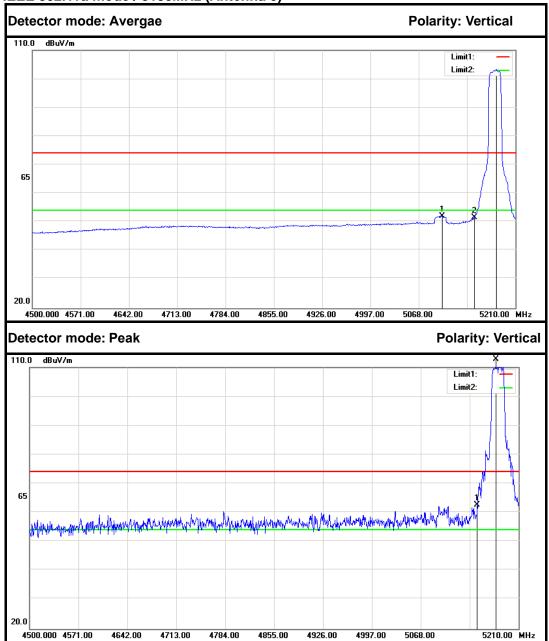
FCC ID: VW7SR616A Page 98 / 331

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6.5.5 TEST RESULT

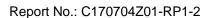
Test Plot

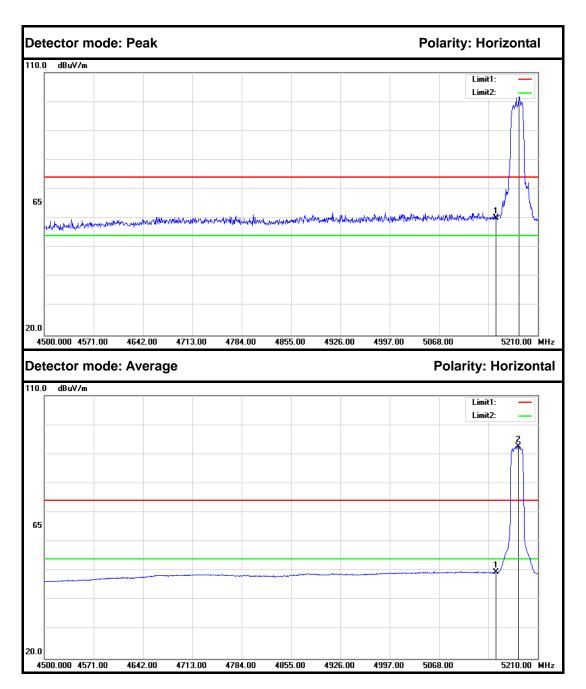
IEEE 802.11a mode / 5180MHz (Antenna 0)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5102.080	46.94	5.16	52.10	54.00	-1.90	Average	Vertical
2	5150.000	46.40	5.25	51.65	54.00	-2.35	Average	Vertical
3	5182.310	97.97	5.30	103.27			Average	Vertical
1	5150.000	57.31	5.25	62.56	74.00	-11.44	Peak	Vertical
2	5177.340	107.69	5.30	112.99			Peak	Vertical

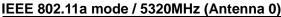
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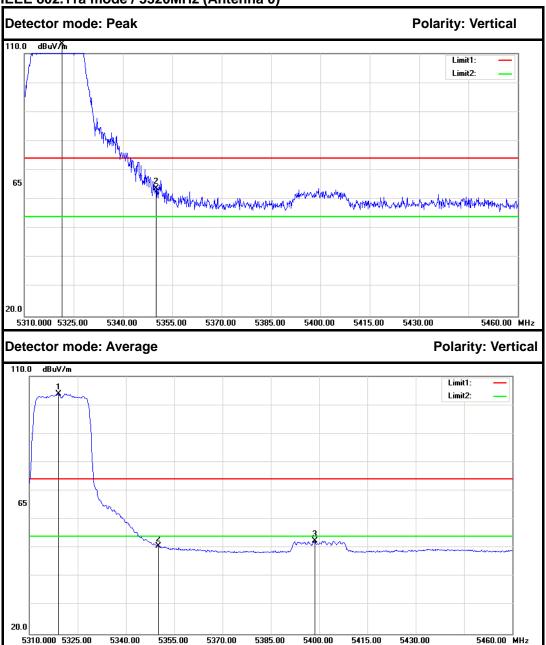




No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.87	5.25	60.12	74.00	-13.88	Peak	Horizontal
2	5183.020	96.40	5.31	101.71			Peak	Horizontal
1	5150.000	44.24	5.25	49.49	54.00	-4.51	Average	Horizontal
2	5181.600	87.33	5.30	92.63			Average	Horizontal

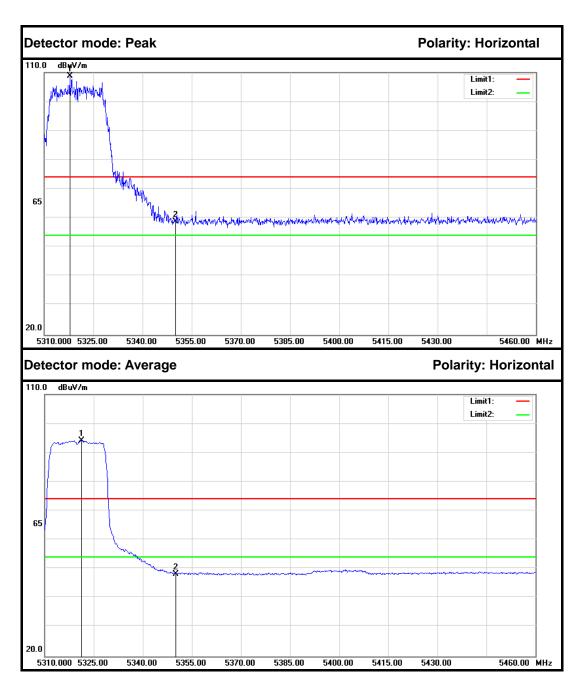
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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5321.400	107.83	5.55	113.38			Peak	Vertical
2	5350.000	58.27	5.60	63.87	74.00	-10.13	Peak	Vertical
1	5319.150	98.31	5.55	103.86			Average	Vertical
2	5350.000	45.11	5.60	50.71	54.00	-3.29	Average	Vertical
3	5398.650	46.79	5.69	52.48	54.00	-1.52	Average	Vertical

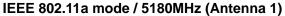
FCC ID: VW7SR616A Page 101 / 331

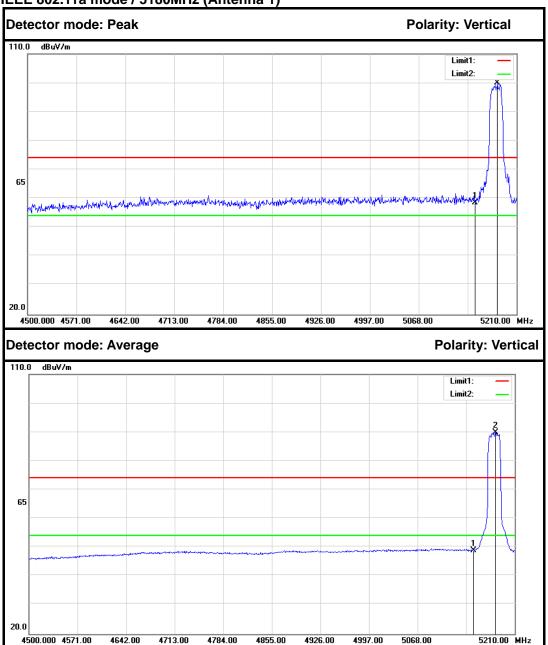


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5317.800	103.10	5.55	108.65			Peak	Horizontal
2	5350.000	53.30	5.60	58.90	74.00	-15.10	Peak	Horizontal
1	5321.250	88.61	5.55	94.16			Average	Horizontal
2	5350.000	42.72	5.60	48.32	54.00	-5.68	Average	Horizontal

FCC ID: VW7SR616A Page 102 / 331

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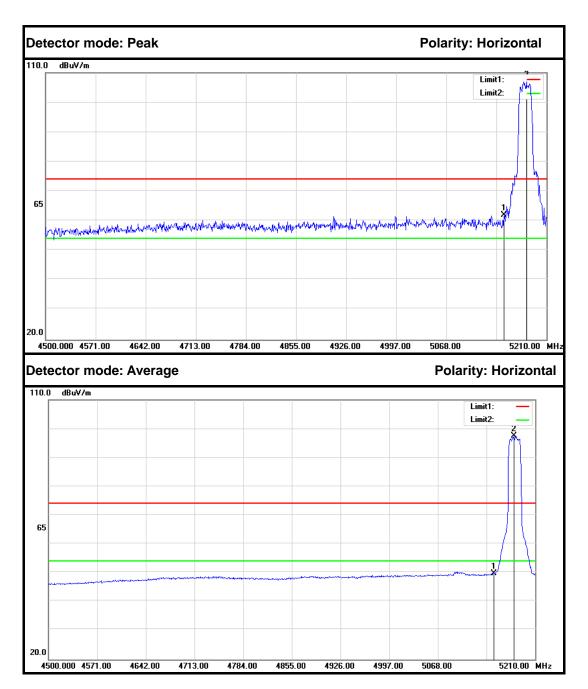




No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	53.40	5.25	58.65	74.00	-15.35	Peak	Vertical
2	5182.310	94.68	5.30	99.98			Peak	Vertical
1	5150.000	43.75	5.25	49.00	54.00	-5.00	Average	Vertical
2	5181.600	84.67	5.30	89.97			Average	Vertical

FCC ID: VW7SR616A Page 103 / 331

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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.61	5.25	61.86	74.00	-12.14	Peak	Horizontal
2	5181.600	101.70	5.30	107.00			Peak	Horizontal
1	5150.000	44.53	5.25	49.78	54.00	-4.22	Average	Horizontal
2	5179.470	92.21	5.30	97.51			Average	Horizontal

FCC ID: VW7SR616A Page 104 / 331

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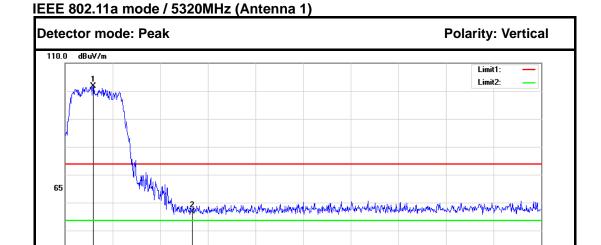
5310.000 5325.00

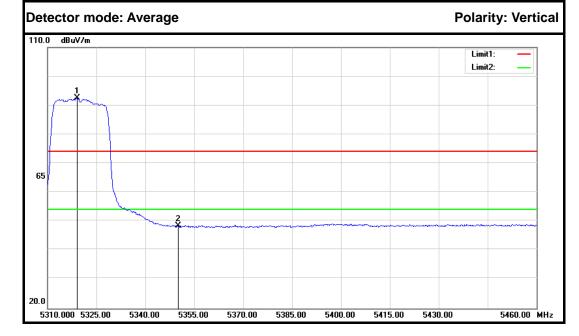
5340.00

5355.00

5370.00

Report No.: C170704Z01-RP1-2





5385.00

5400.00

5415.00

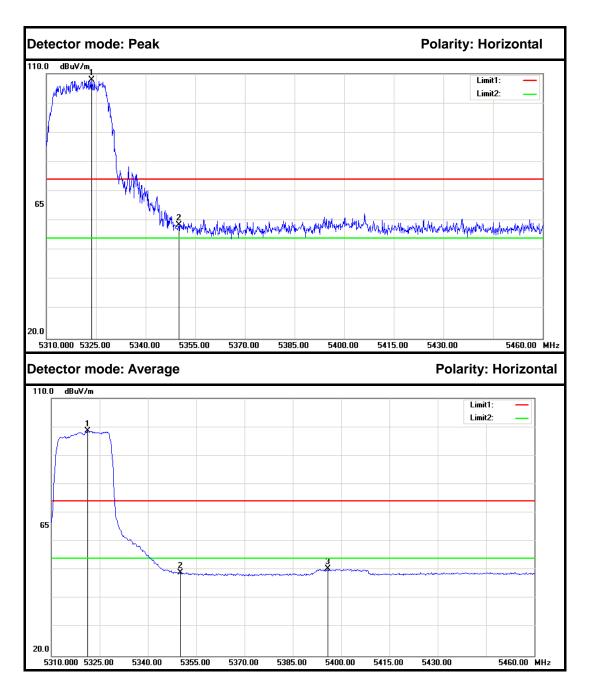
5430.00

5460.00 MHz

No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5318.850	96.26	5.55	101.81			Peak	Vertical
2	5350.000	51.60	5.60	57.20	74.00	-16.80	Peak	Vertical
1	5319.150	86.99	5.55	92.54			Average	Vertical
2	5350.000	42.76	5.60	48.36	54.00	-5.64	Average	Vertical

FCC ID: VW7SR616A Page 105 / 331

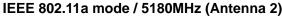
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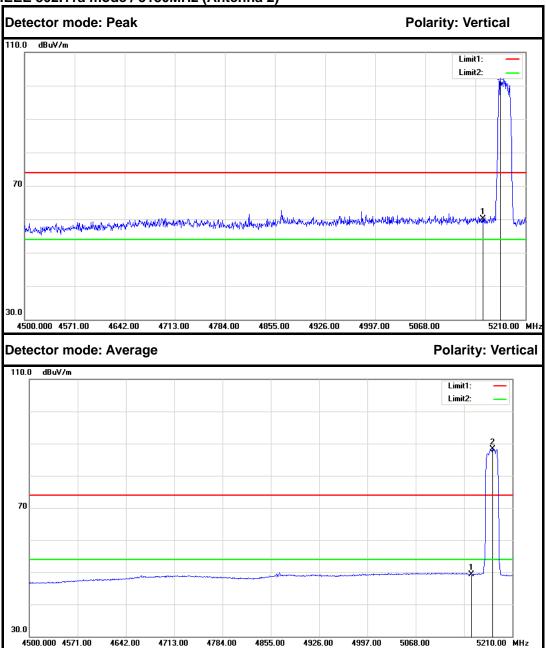


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5323.650	102.27	5.56	107.83			Peak	Horizontal
2	5350.000	53.06	5.60	58.66	74.00	-15.34	Peak	Horizontal
1	5321.250	93.13	5.55	98.68			Average	Horizontal
2	5350.000	43.45	5.60	49.05	54.00	-4.95	Average	Horizontal
3	5395.950	44.77	5.68	50.45	54.00	-3.55	Average	Horizontal

FCC ID: VW7SR616A Page 106 / 331

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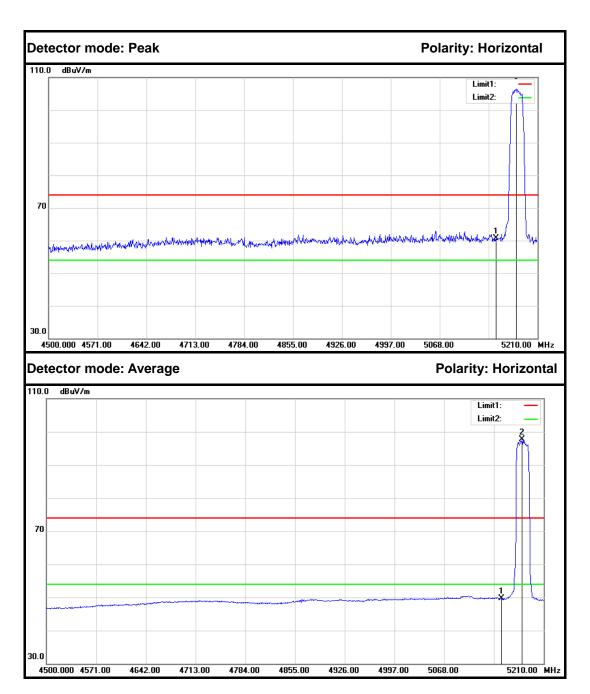


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.90	5.25	60.15	74.00	-13.85	Peak	Vertical
2	5174.500	96.98	5.29	102.27			Peak	Vertical
1	5150.000	44.06	5.25	49.31	54.00	-4.69	Average	Vertical
2	5180.890	82.96	5.30	88.26			Average	Vertical

FCC ID: VW7SR616A Page 107 / 331

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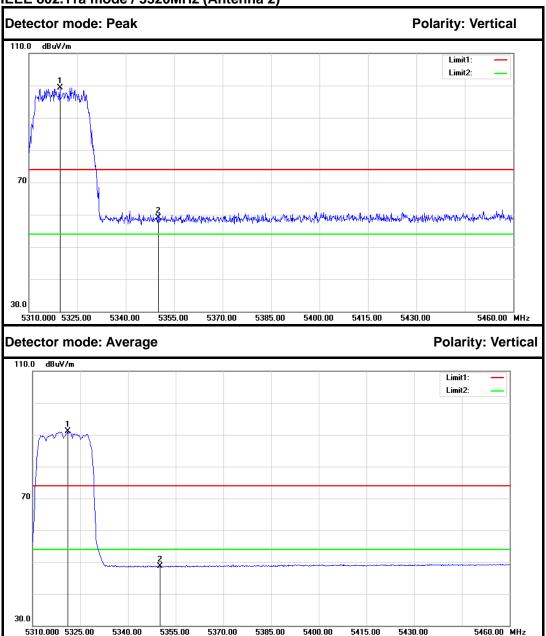


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	55.54	5.25	60.79	74.00	-13.21	Peak	Horizontal
2	5178.760	101.12	5.30	106.42			Peak	Horizontal
1	5150.000	44.43	5.25	49.68	54.00	-4.32	Average	Horizontal
2	5179.470	92.33	5.30	97.63			Average	Horizontal

FCC ID: VW7SR616A Page 108 / 331

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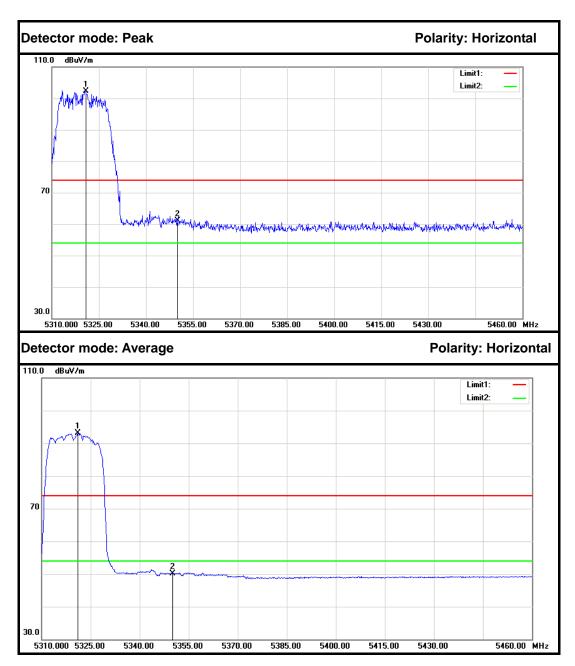
IEEE 802.11a mode / 5320MHz (Antenna 2)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5319.600	93.82	5.55	99.37			Peak	Vertical
2	5350.000	53.54	5.60	59.14	74.00	-14.86	Peak	Vertical
1	5321.100	85.48	5.55	91.03			Average	Vertical
2	5350.000	43.04	5.60	48.64	54.00	-5.36	Average	Vertical

FCC ID: VW7SR616A Page 109 / 331

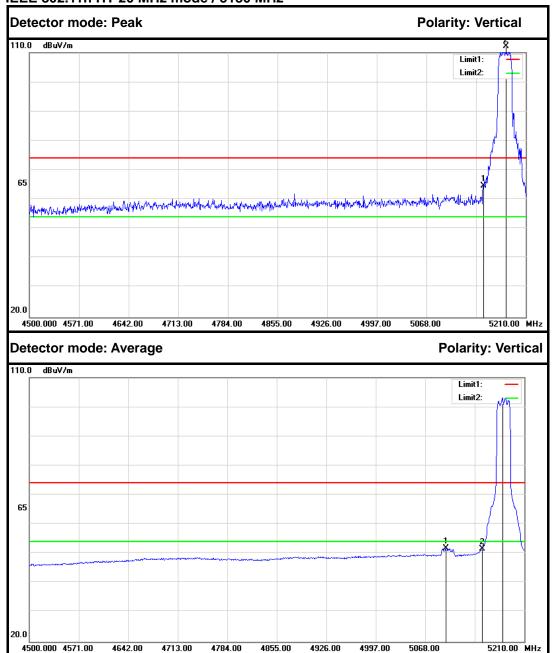
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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5320.800	96.75	5.55	102.30			Peak	Horizontal
2	5350.000	55.54	5.60	61.14	74.00	-12.86	Peak	Horizontal
1	5321.100	87.48	5.55	93.03			Average	Horizontal
2	5350.000	44.54	5.60	50.14	54.00	-3.86	Average	Horizontal

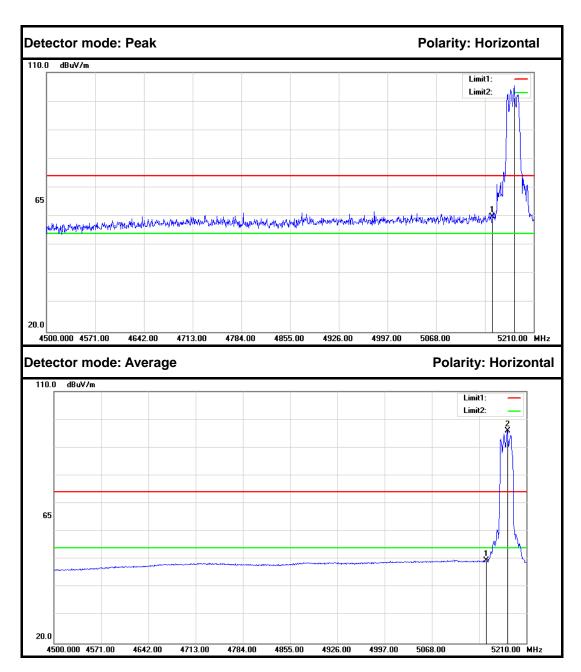
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Combine with Antenna 0 and Antenna 1 and Antenna 2 IEEE 802.11n HT 20 MHz mode / 5180 MHz



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	59.47	5.25	64.72	74.00	-9.28	Peak	Vertical
2	5181.600	106.89	5.30	112.19			Peak	Vertical
1	5097.820	46.73	5.15	51.88	54.00	-2.12	Average	Vertical
2	5150.000	46.43	5.25	51.68	54.00	-2.32	Average	Vertical
3	5178.760	97.74	5.30	103.04			Average	Vertical

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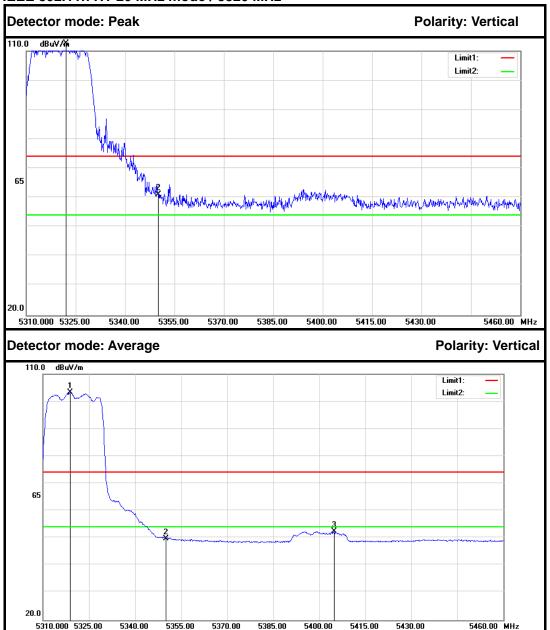


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	54.78	5.25	60.03	74.00	-13.97	Peak	Horizontal
2	5181.600	99.99	5.30	105.29			Peak	Horizontal
1	5150.000	44.29	5.25	49.54	54.00	-4.46	Average	Horizontal
2	5181.600	90.59	5.30	95.89			Average	Horizontal

FCC ID: VW7SR616A Page 112 / 331

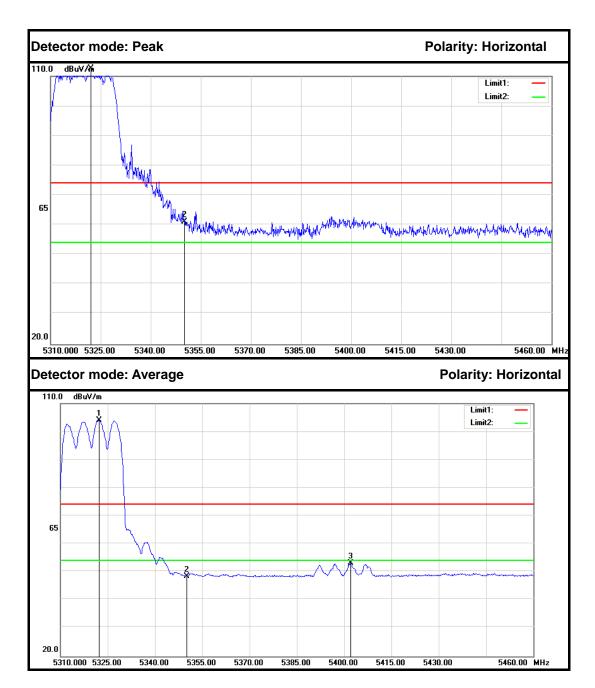
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IEEE 802.11n HT 20 MHz mode / 5320 MHz



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.150	107.28	5.55	112.83			Peak	Vertical
2	5350.000	55.37	5.60	60.97	74.00	-13.03	Peak	Vertical
1	5318.850	97.78	5.55	103.33			Average	Vertical
2	5350.000	44.24	5.60	49.84	54.00	-4.16	Average	Vertical
3	5404.800	46.73	5.70	52.43	54.00	-1.57	Average	Vertical

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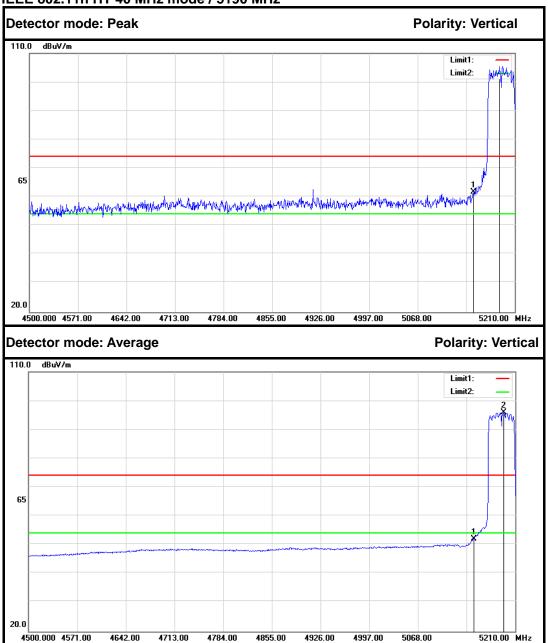


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.150	107.28	5.55	112.83			Peak	Horizontal
2	5350.000	55.37	5.60	60.97	74.00	-13.03	Peak	Horizontal
1	5322.300	98.41	5.55	103.96			Average	Horizontal
2	5350.000	42.97	5.60	48.57	54.00	-5.43	Average	Horizontal
3	5402.100	47.49	5.70	53.19	54.00	-0.81	Average	Horizontal

FCC ID: VW7SR616A Page 114 / 331

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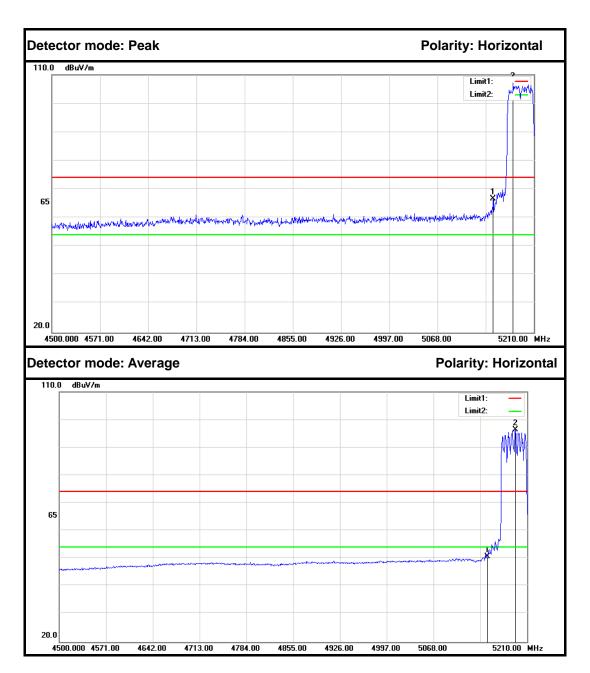
IEEE 802.11n HT 40 MHz mode / 5190 MHz



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.40	5.25	61.65	74.00	-12.35	Peak	Vertical
2	5187.280	100.06	5.31	105.37			Peak	Vertical
1	5150.000	46.79	5.25	52.04	54.00	-1.96	Average	Vertical
2	5193.670	90.58	5.32	95.90			Average	Vertical

FCC ID: VW7SR616A Page 115 / 331

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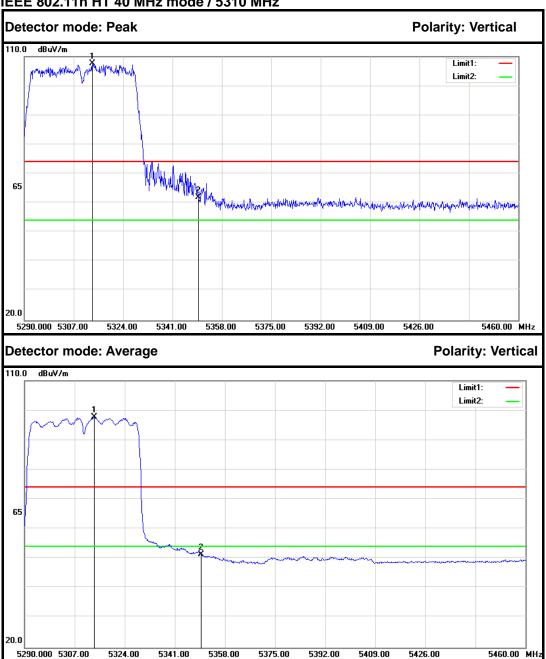


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	61.53	5.25	66.78	74.00	-7.22	Peak	Horizontal
2	5179.470	101.99	5.30	107.29			Peak	Horizontal
1	5150.000	45.45	5.25	50.70	54.00	-3.30	Average	Horizontal
2	5192.250	91.13	5.32	96.45			Average	Horizontal

FCC ID: VW7SR616A Page 116 / 331

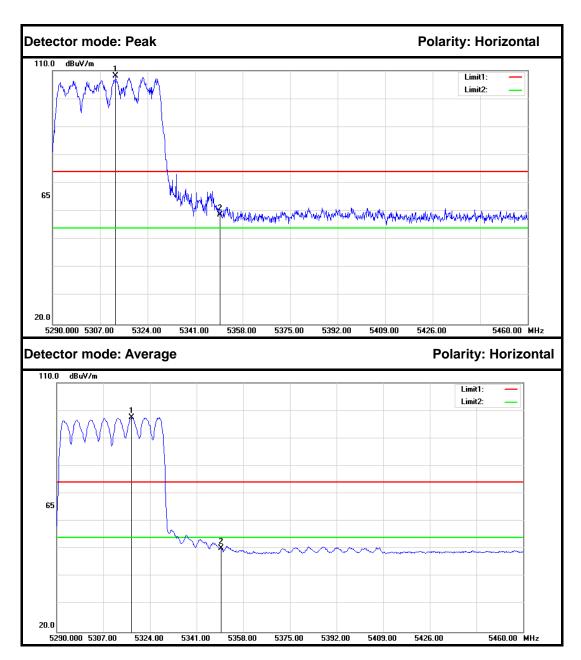
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IEEE 802.11n HT 40 MHz mode / 5310 MHz



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5313.460	102.13	5.54	107.67			Peak	Vertical
2	5350.000	56.27	5.60	61.87	74.00	-12.13	Peak	Vertical
1	5313.630	92.15	5.54	97.69			Average	Vertical
2	5350.000	45.81	5.60	51.41	54.00	-2.59	Average	Vertical

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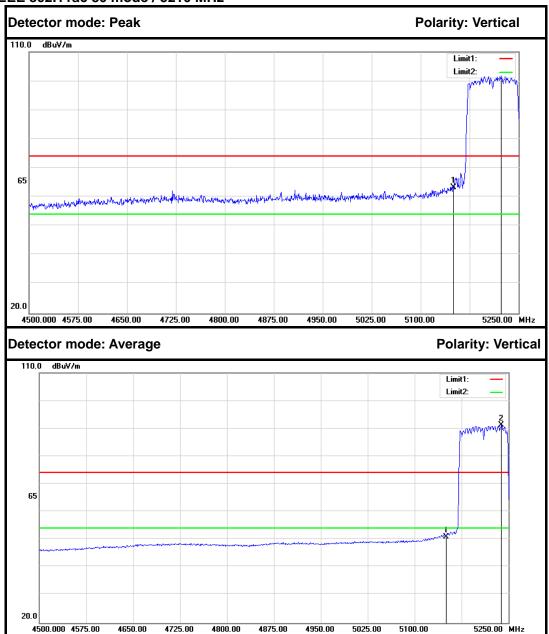
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5312.610	102.53	5.54	108.07			Peak	Horizontal
2	5350.000	53.30	5.60	58.90	74.00	-15.10	Peak	Horizontal
1	5317.370	92.00	5.54	97.54			Average	Horizontal
2	5350.000	44.56	5.60	50.16	54.00	-3.84	Average	Horizontal

FCC ID: VW7SR616A Page 118 / 331

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Sinenznen) Inc. Report No.: C170704Z01-RP1-2

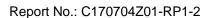
IEEE 802.11ac 80 mode / 5210 MHz

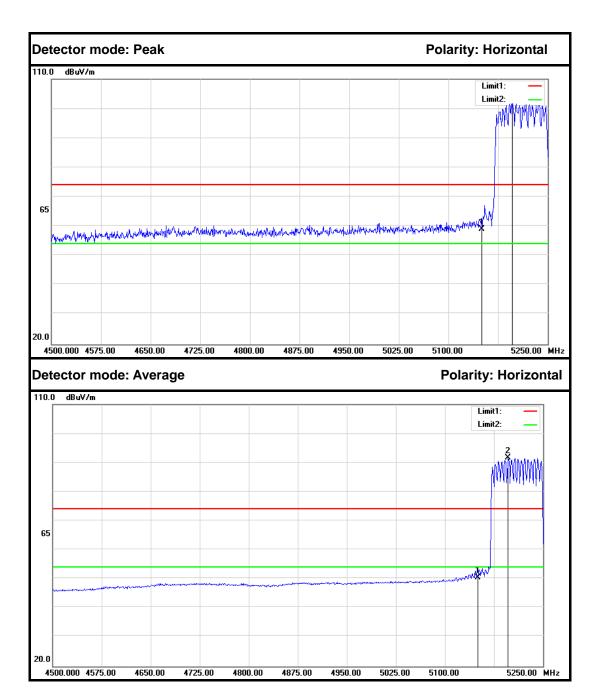


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	58.15	5.25	63.40	74.00	-10.60	Peak	Vertical
2	5223.000	96.42	5.38	101.80			Peak	Vertical
1	5150.000	45.80	5.25	51.05	54.00	-2.95	Average	Vertical
2	5238.750	85.71	5.40	91.11			Average	Vertical

FCC ID: VW7SR616A Page 119 / 331

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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	53.85	5.25	59.10	74.00	-14.90	Peak	Horizontal
2	5196.000	96.42	5.33	101.75			Peak	Horizontal
1	5150.000	45.30	5.25	50.55	54.00	-3.45	Average	Horizontal
2	5196.750	86.29	5.33	91.62			Average	Horizontal

FCC ID: VW7SR616A Page 120 / 331

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