7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.3.2. TEST INSTRUMENTS

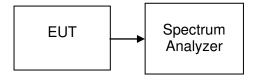
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY55370330	02/21/2016	02/20/2017

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 1:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 x RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. TEST SETUP



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7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	8104		PASS
Mid	2437	8108	>500	PASS
High	2462	8113		PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15100		PASS
Mid	2437	15110	>500	PASS
High	2462	15100		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15120		PASS
Mid	2437	15120	>500	PASS
High	2462	15120		PASS

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Test mode: IEEE 802.11n HT20 MHz (Antenna 0)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15120		PASS
Mid	2437	15110	>500	PASS
High	2462	15950		PASS

Test mode: IEEE 802.11n HT20 MHz (Antenna 1)

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2412	15120		PASS
Mid	2437	15120	>500	PASS
High	2462	15110		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 0)

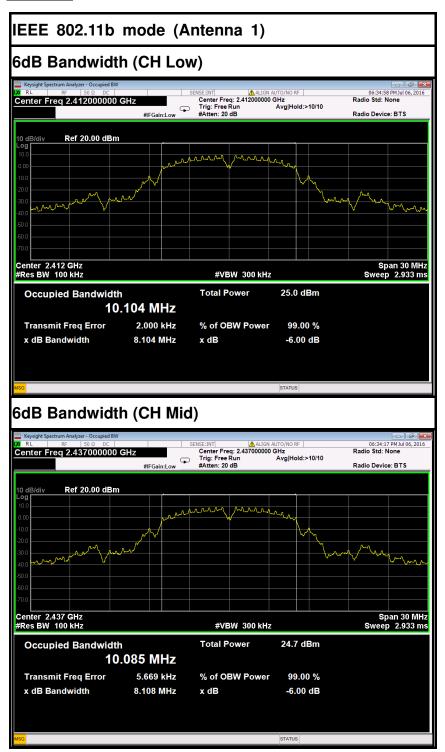
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	36300		PASS
Mid	2437	35790	>500	PASS
High	2452	35790		PASS

Test mode: IEEE 802.11n HT40 MHz (Antenna 1)

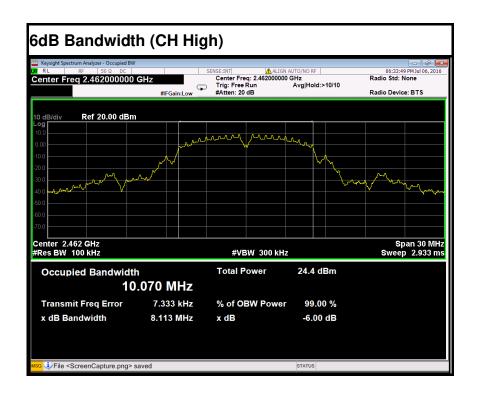
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Low	2422	36340		PASS
Mid	2437	35820	>500	PASS
High	2452	36340		PASS

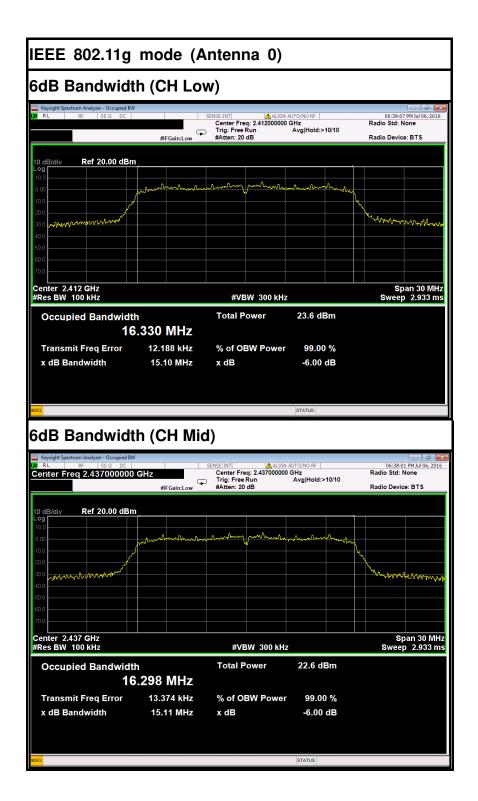
FCC ID: VW7SR515A Page 61 / 113

Test Plot

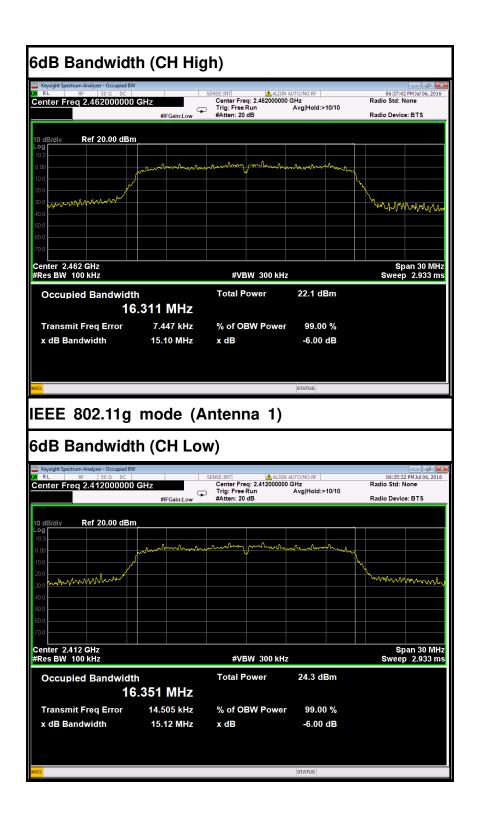


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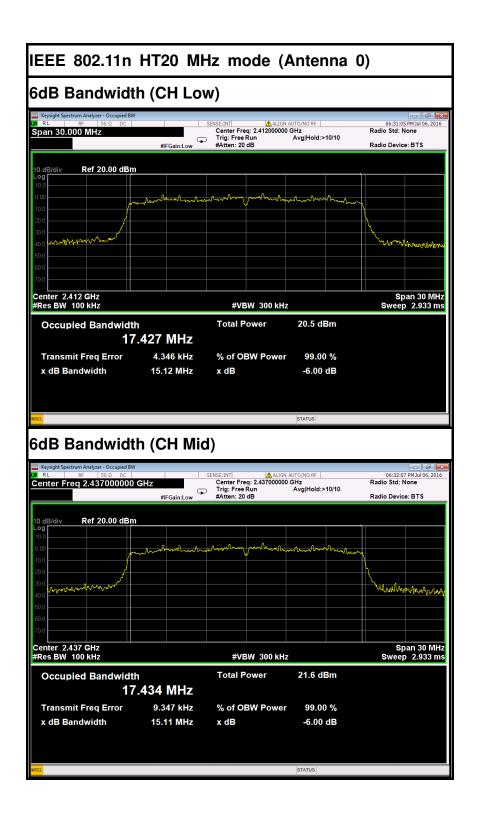
FCC ID: VW7SR515A Page 64 / 113



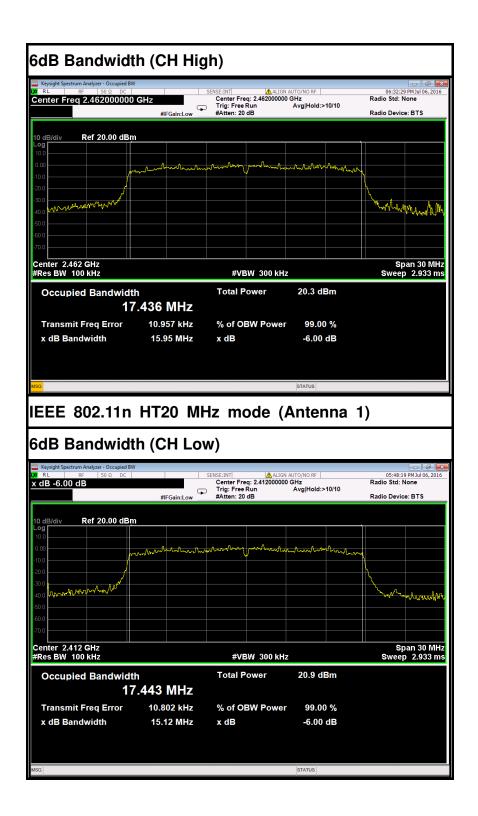
FCC ID: VW7SR515A Page 65 / 113



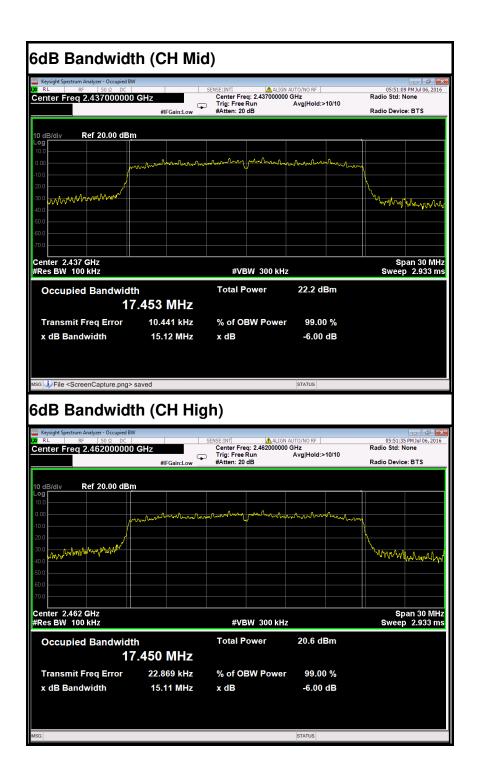
FCC ID: VW7SR515A Page 66 / 113



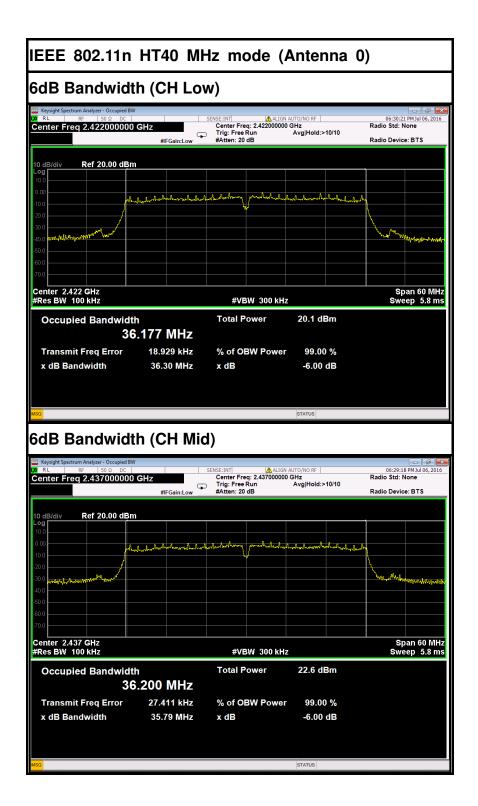
FCC ID: VW7SR515A Page 67 / 113



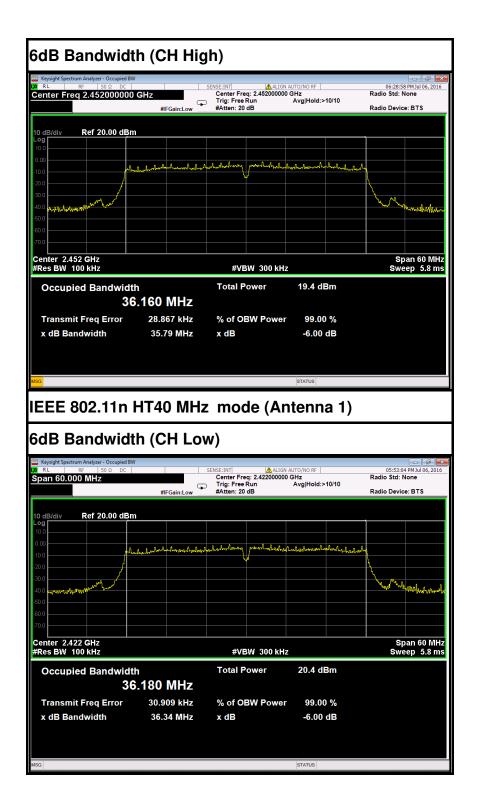
FCC ID: VW7SR515A Page 68 / 113



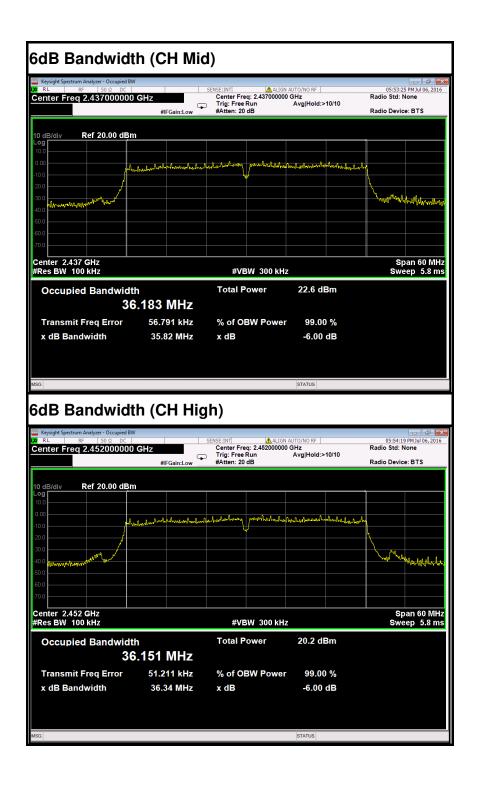
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7.4. ANTENNA GAIN

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 DSSS mode is used.

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			
6dE	3i		

TEST RESULTS

Please refer to the antenna report.

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7.5. PEAK OUTPUT POWER

7.5.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.5.2. TEST INSTRUMENTS

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

7.5.3. TEST PROCEDURES (please refer to measurement standard)

9.1.1 RBW ≥ DTS bandwidth

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS bandwidth*.

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ 3 RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

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9.1.2 Integrated band power method

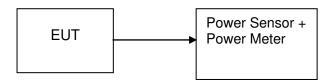
This procedure may be used when the maximum available RBW of the measurement instrument is less than the *DTS bandwidth*.

- a) Set the RBW = 1 MHz.
- b) Set the VBW ≥ 3 RBW
- c) Set the span \geq 1.5 x DTS bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

9.1.3 PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

7.5.4. TEST SETUP



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7.5.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	21.43	0.13900			PASS
Mid	2437	21.68	0.14723	1	Peak	PASS
High	2462	21.30	0.13490			PASS
Low	2412	17.31	0.05383			PASS
Mid	2437	17.48	0.05598	1	AVG	PASS
High	2462	17.22	0.05272			PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	24.67	0.29309			PASS
Mid	2437	24.51	0.28249	1	Peak	PASS
High	2462	24.32	0.27040			PASS
Low	2412	16.62	0.04592			PASS
Mid	2437	16.54	0.04508	1	AVG	PASS
High	2462	15.92	0.03908			PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak / AVG	Result
Low	2412	25.76	0.37670			PASS
Mid	2437	25.68	0.36983	1	Peak	PASS
High	2462	25.12	0.32509			PASS
Low	2412	17.38	0.05470			PASS
Mid	2437	17.49	0.05610	1	AVG	PASS
High	2462	16.97	0.04977			PASS

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Test mode: IEEE 802.11n HT20 MHz(Combine with Antenna 0 and Antenna 1)

Report No.: C160412Z05-RP1-1

Channel	Frequency (MHz)	Ot	utput Powei (dBm)	r	Output Power	Limit (W)	Peak /	Result
	(Antenna 0	Antenna 1	Total	(W)	(**)	7110	
Low	2412	24.57	25.10	27.85	0.61001			PASS
Mid	2437	23.89	24.82	27.39	0.54830	1	Peak	PASS
High	2462	23.46	24.21	26.86	0.48545			PASS
Low	2412	14.41	15.23	17.85	0.06095			PASS
Mid	2437	14.08	14.97	17.56	0.05699	1	AVG	PASS
High	2462	13.45	14.28	16.90	0.04892			PASS

Test mode: IEEE 802.11n HT40 MHz(Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	Ot	utput Powei (dBm)	r	Output Power	Limit (W)	Peak /	Result
	(141112)	Antenna 0	Antenna 1	Total	(W)	(**)	AVO	
Low	2422	22.13	22.86	25.52	0.35650			PASS
Mid	2437	23.76	24.32	27.06	0.50808	1	Peak	PASS
High	2452	21.89	22.58	25.26	0.33566			PASS
Low	2422	12.03	12.81	15.45	0.03506			PASS
Mid	2437	13.76	14.64	17.23	0.05288	1	AVG	PASS
High	2452	11.98	12.61	15.32	0.03402			PASS

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7.6. BAND EDGES MEASUREMENT

7.6.1. LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

7.6.2. TEST INSTRUMENTS

	Radiated Emission Test Site 966 (2)											
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration							
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	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	09/25/2015	09/24/2016							
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017							
Horn Antenna	SCHWARZBECK	BBHA9120	D286	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 / CC	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.

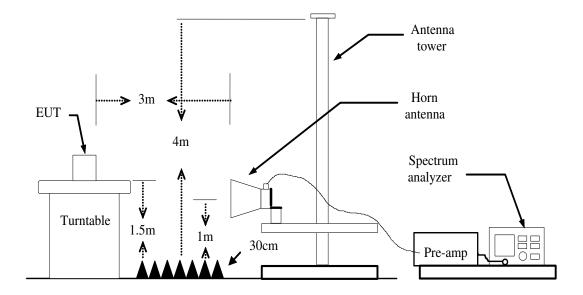
- 2. The FCC Site Registration number is 101879.
- 3. N.C.R = No Calibration Required.

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7.6.3. TEST PROCEDURES (please refer to measurement standard)

- 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=1MHz / 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.

7.6.4. TEST SETUP



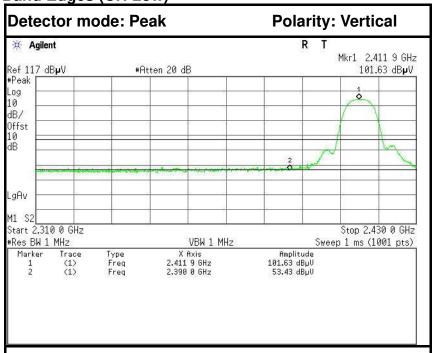
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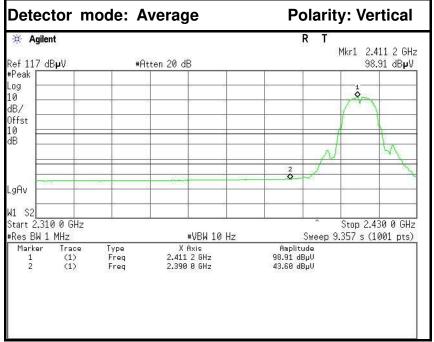
7.6.5. TEST RESULTS

Test Plot

IEEE 802.11b mode (Antenna 1)

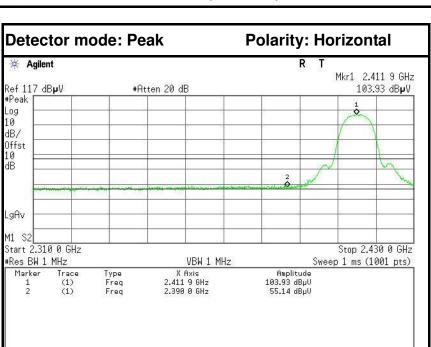
Band Edges (CH Low)

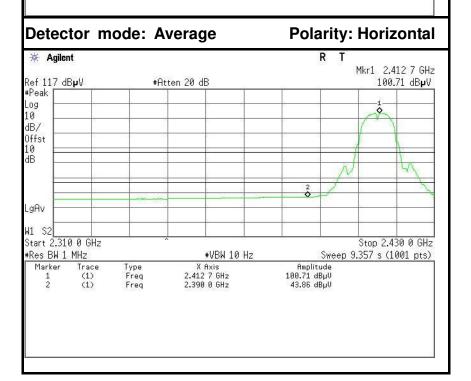




No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	46.83	-6.60	53.43	74.00	-20.57	Peak	Vertical
2	2390.0000	37.00	-6.60	43.60	54.00	-10.40	Average	Vertical

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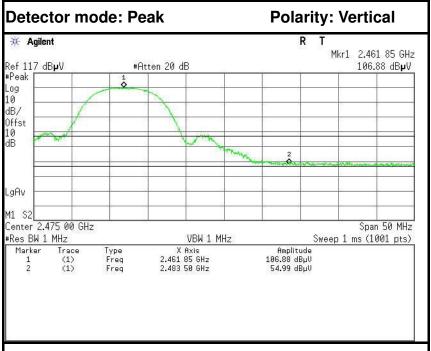


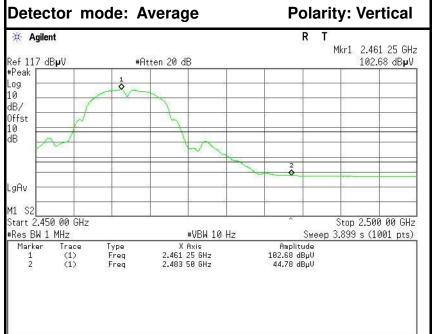


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	48.54	-6.60	55.14	74.00	-18.86	Peak	Horizontal
2	2390.0000	37.26	-6.60	43.86	54.00	-10.14	Average	Horizontal

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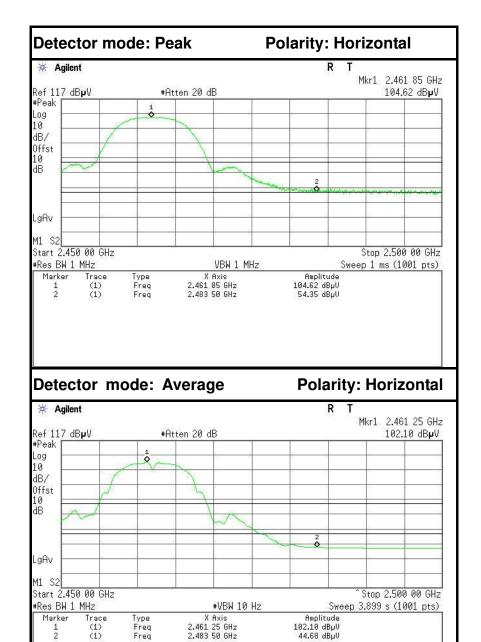






No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.75	-6.24	54.99	74.00	-19.01	Peak	Vertical
2	2483.5000	38.54	-6.24	44.78	54.00	-9.22	Average	Vertical

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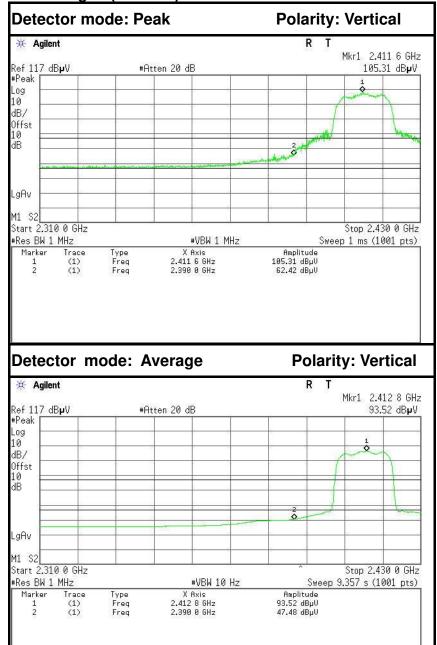
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	48.11	-6.24	54.35	74.00	-19.65	Peak	Horizontal
2	2483.5000	38.44	-6.24	44.68	54.00	-9.32	Average	Horizontal

(1) (1)

FCC ID: VW7SR515A Page 83 / 113 eation Canicos (Chanzhan) Inc

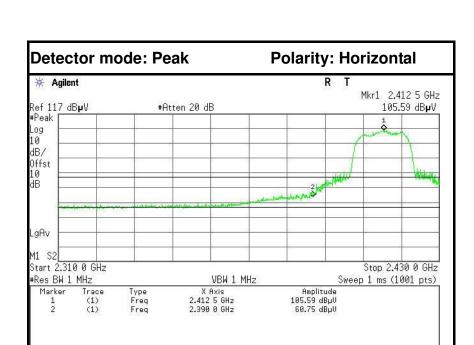
IEEE 802.11g mode (Antenna 0)

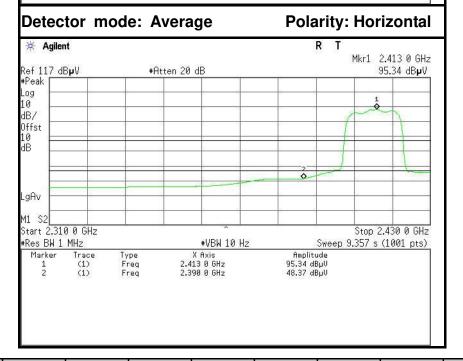
Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	55.82	-6.60	62.42	74.00	-11.58	Peak	Vertical
2	2390.0000	40.88	-6.60	47.48	54.00	-6.52	Average	Vertical

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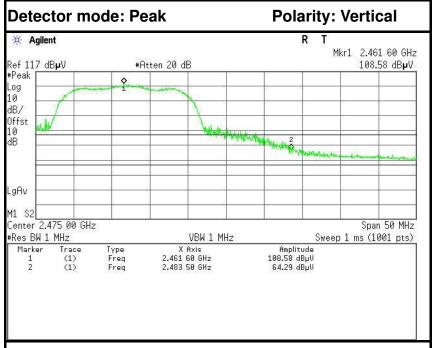


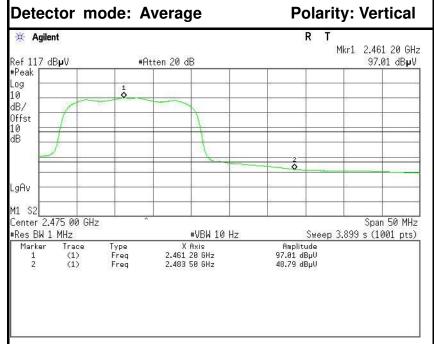


No	Frequence (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.000	0 54.15	-6.60	60.75	74.00	-13.25	Peak	Horizontal
2	2390.000	0 41.77	-6.60	48.37	54.00	-5.63	Average	Horizontal

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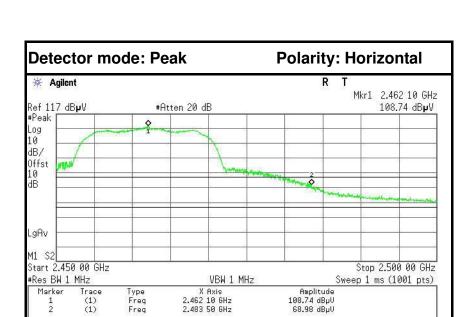


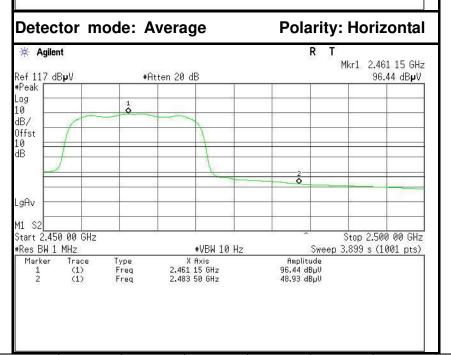




No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	58.05	-6.24	64.29	74.00	-9.71	Peak	Vertical
2	2483.5000	42.55	-6.24	48.79	54.00	-5.21	Average	Vertical

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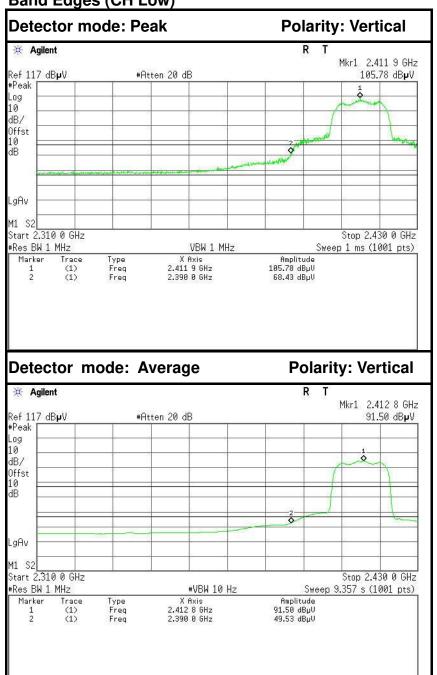


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pol e
1	2483.5000	62.74	-6.24	68.98	74.00	-5.02	Peak	Horizontal
2	2483.5000	42.69	-6.24	48.93	54.00	-5.07	Average	Horizontal

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IEEE 802.11g mode (Antenna 1)

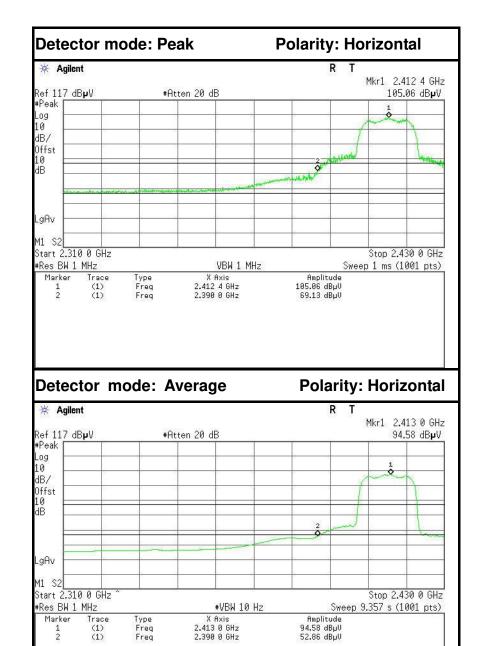
Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pol e
1	2390.0000	61.83	-6.60	68.43	74.00	-5.57	Peak	Vertical
2	2390.0000	42.93	-6.60	49.53	54.00	-4.47	Average	Vertical

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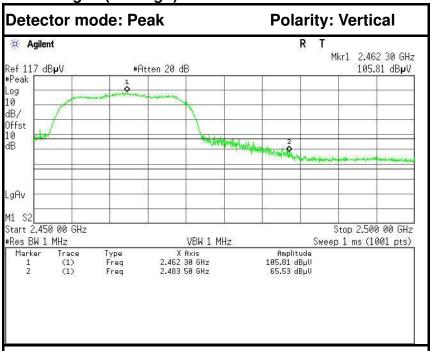


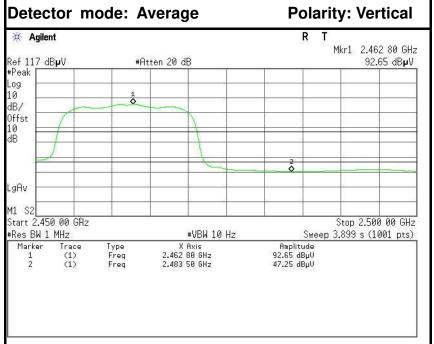


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pol e
1	2390.0000	62.53	-6.60	69.13	74.00	-4.87	Peak	Horizontal
2	2390.0000	46.26	-6.60	52.86	54.00	-1.14	Average	Horizontal

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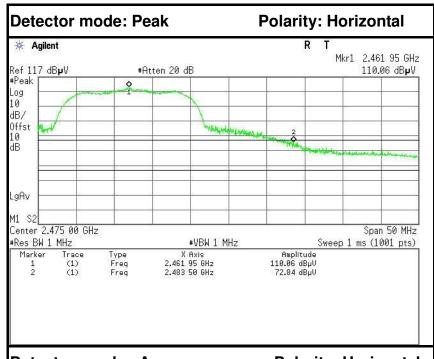


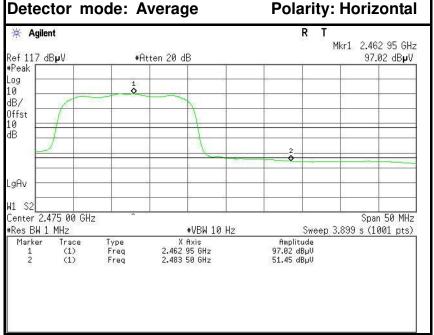




No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	59.29	-6.24	65.53	74.00	-8.47	Peak	Vertical
2	2483.5000	41.01	-6.24	47.25	54.00	-6.75	Average	Vertical

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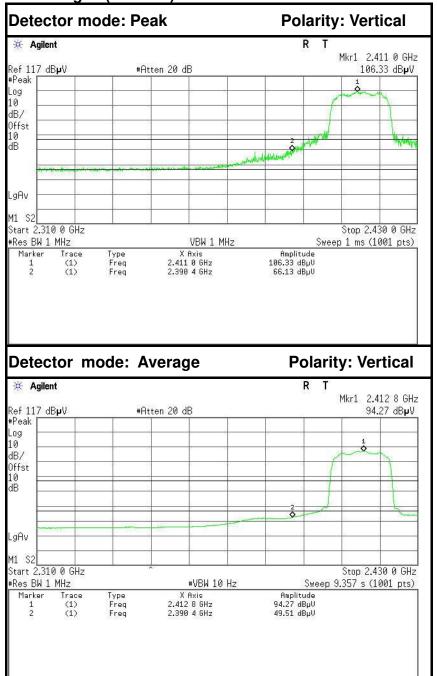


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	66.60	-6.24	72.84	74.00	-1.16	Peak	Horizontal
2	2483.5000	45.21	-6.24	51.45	54.00	-2.55	Average	Horizontal

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IEEE 802.11n HT20 MHz mode (Combine with Antenna 0 and Antenna 1)

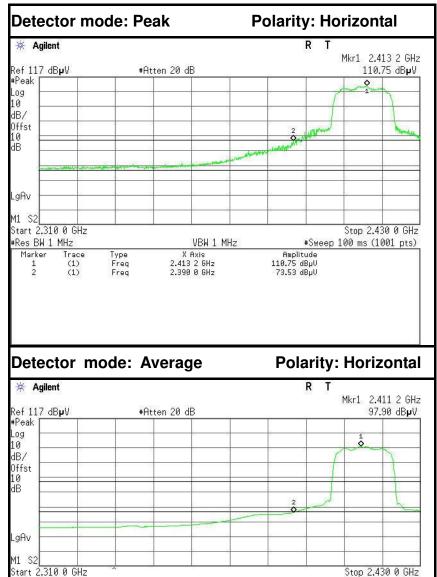
Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	59.53	-6.60	66.13	74.00	-7.87	Peak	Vertical
2	2390.0000	42.91	-6.60	49.51	54.00	-4.49	Average	Vertical

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No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	66.93	-6.60	73.53	74.00	-0.47	Peak	Horizontal

53.39

#VBW 10 Hz

X Axis 2.411 2 GHz 2.390 0 GHz

#Res BW 1 MHz

Trace

46.79

Marker

2390.0000

2

Type Freq Freq

-6.60

Sweep 9.357 s (1001 pts)

Amplitude 97.90 dBµV 53.39 dBµV

54.00

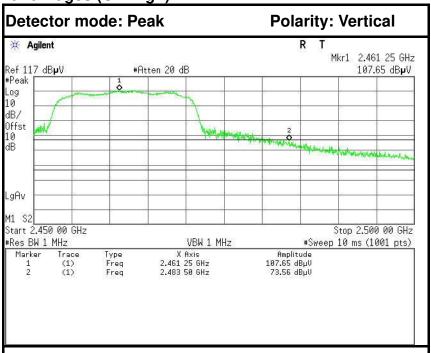
-0.61

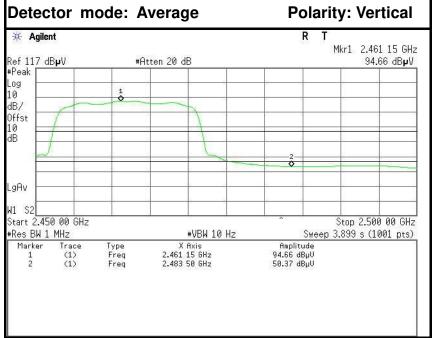
Average

Horizontal

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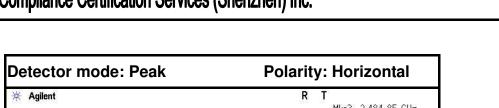


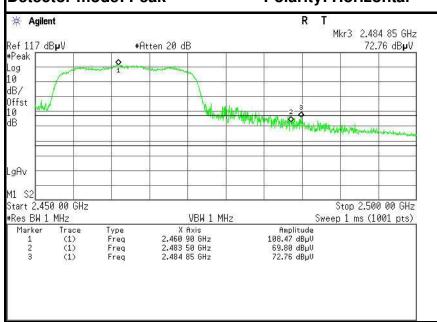


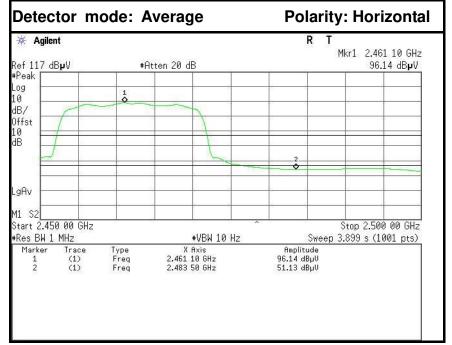


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	67.32	-6.24	73.56	74.00	-0.44	Peak	Vertical
2	2483.5000	44.13	-6.24	50.37	54.00	-3.63	Average	Vertical

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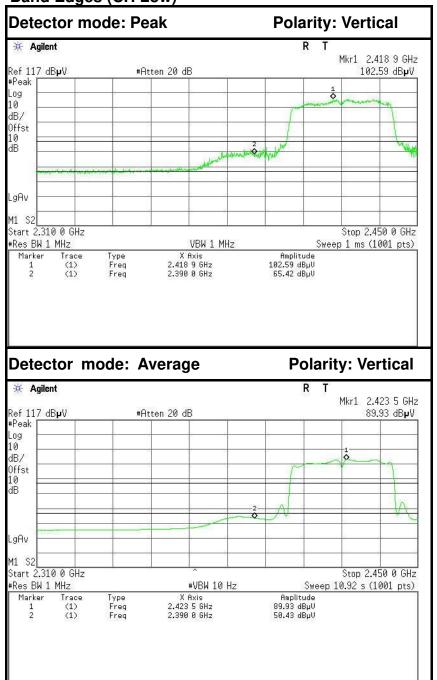


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	63.56	-6.24	69.80	74.00	-4.20	Peak	Horizontal
2	2483.5000	44.89	-6.24	51.13	54.00	-2.87	Average	Horizontal

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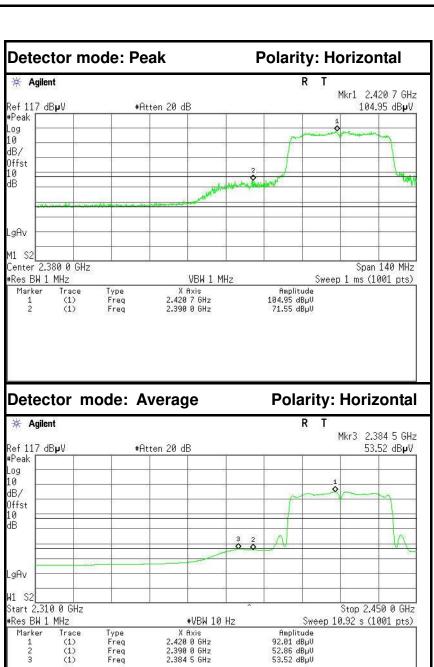
IEEE 802.11n HT40 MHz mode (Combine with Antenna 0 and Antenna 1)

Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	58.82	-6.60	65.42	74.00	-8.58	Peak	Vertical
2	2390.0000	43.83	-6.60	50.43	54.00	-3.57	Average	Vertical

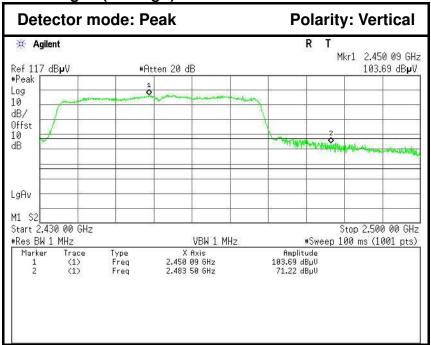
FCC ID: VW7SR515A Page 96 / 113 This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.



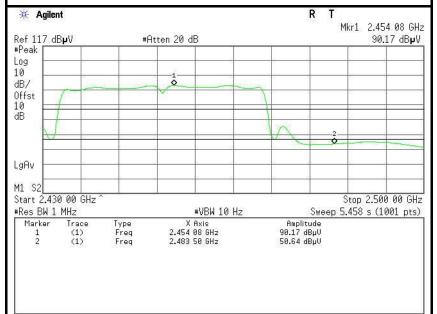
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	64.95	-6.60	71.55	74.00	-2.45	Peak	Horizontal
2	2390.0000	46.26	-6.60	52.86	54.00	-1.14	Average	Horizontal

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Band Edges (CH High)



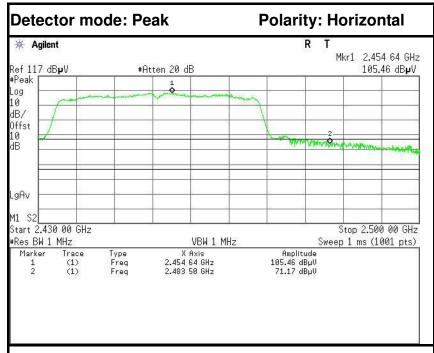
Detector mode: Average Polarity: Vertical

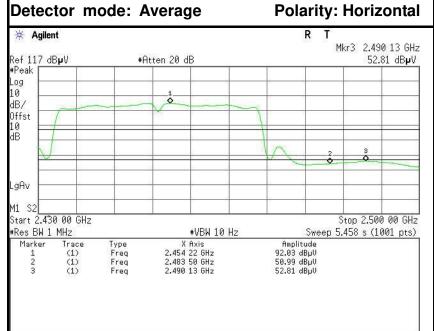


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	64.98	-6.24	71.22	74.00	-2.78	Peak	Vertical
2	2483.5000	44.40	-6.24	50.64	54.00	-3.36	Average	Vertical

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No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	64.93	-6.24	71.17	74.00	-2.83	Peak	Horizontal
2	2483.5000	44.75	-6.24	50.99	54.00	-3.01	Average	Horizontal

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7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.7.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

7.7.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY55370330	02/21/2016	02/20/2017

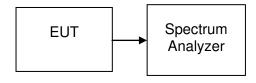
7.7.3. TEST PROCEDURES (please refer to measurement standard)

§15.247(e)specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e.,if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

10.2 Method PKPSD (peak PSD)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.7.4. TEST SETUP



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7.7.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-5.30		PASS
Mid	2437	-6.19	8	PASS
High	2462	-5.75		PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-8.42		PASS
Mid	2437	-8.70	8	PASS
High	2462	-9.47		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-7.69		PASS
Mid	2437	-9.76	8	PASS
High	2462	-9.07		PASS

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Test mode: IEEE 802.11n HT20 MHz (Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)		PPSD (dBm)		Limit (dBm)	Test Result
	(IVIT12)	Antenna 0	Antenna 1	Total	(ubili)	
Low	2412	-11.05	-11.15	-8.09		PASS
Mid	2437	-10.62	-10.20	-7.40	8	PASS
High	2462	-12.73	-12.38	-9.54		PASS

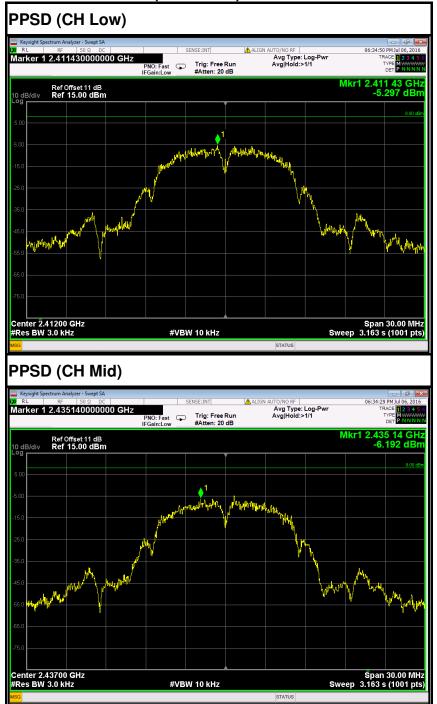
Test mode: IEEE 802.11n HT40 MHz (Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)		PPSD (dBm)		Limit (dBm)	Test Result
	(IVITIZ)	Antenna 0	Antenna 1	Total	(ubiii)	
Low	2422	-15.01	-15.82	-12.39		PASS
Mid	2437	-13.30	-13.99	-10.62	8	PASS
High	2452	-17.08	-17.10	-14.08		PASS

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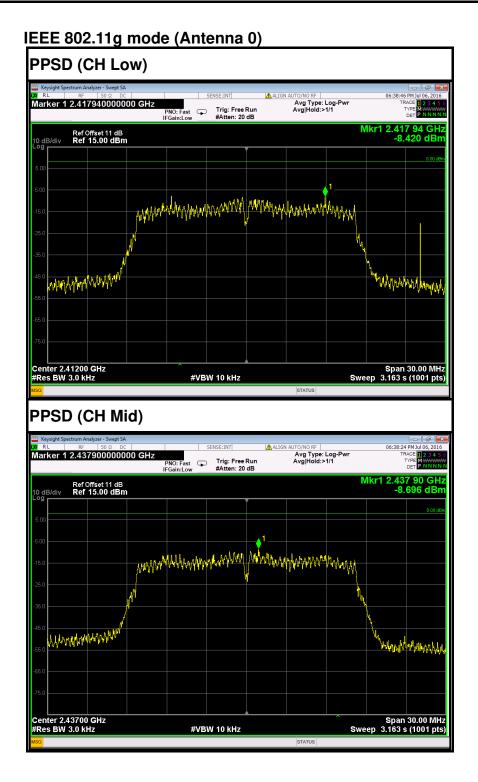
Test Plot

IEEE 802.11b mode (Antenna 1)



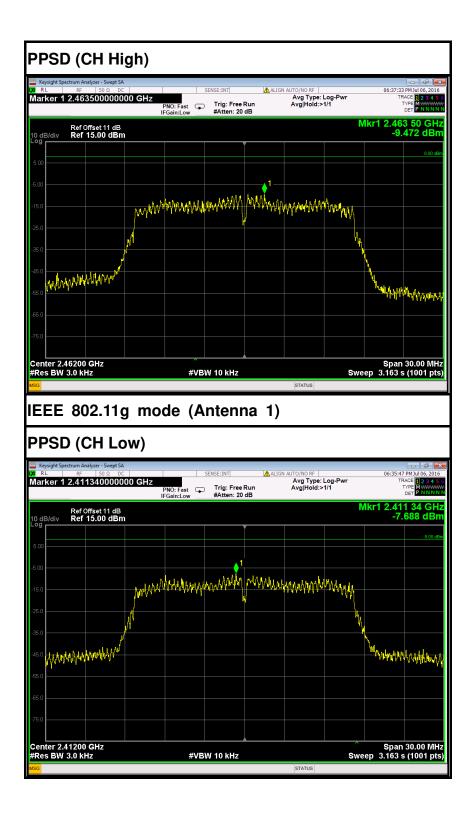
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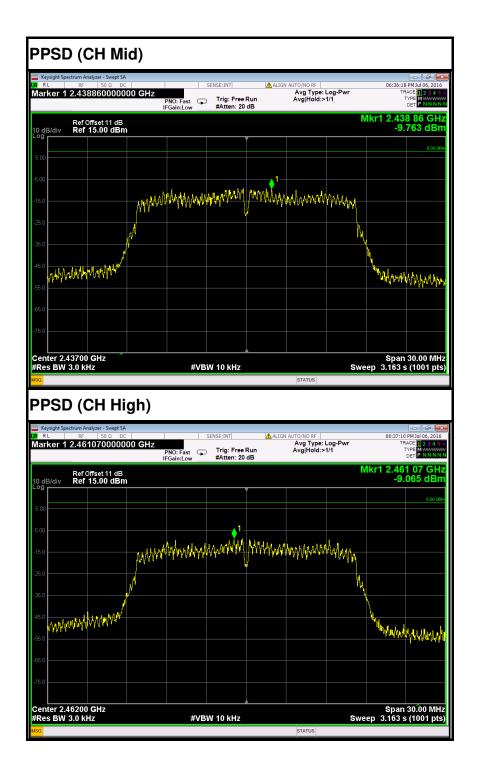


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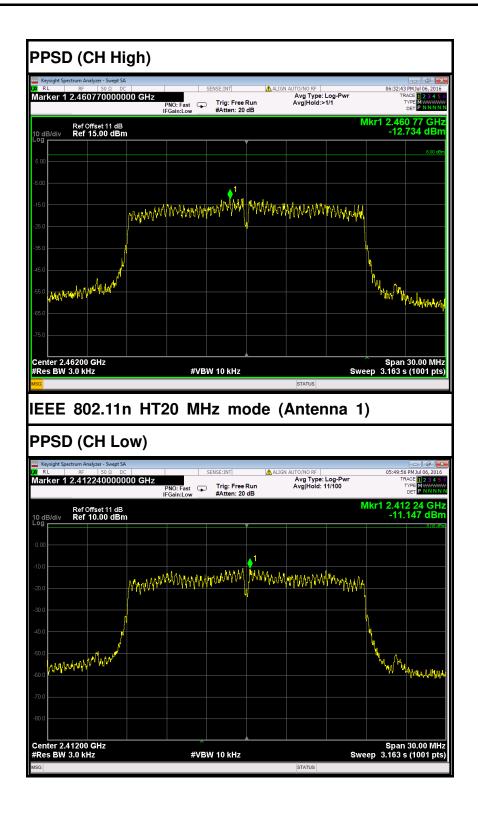
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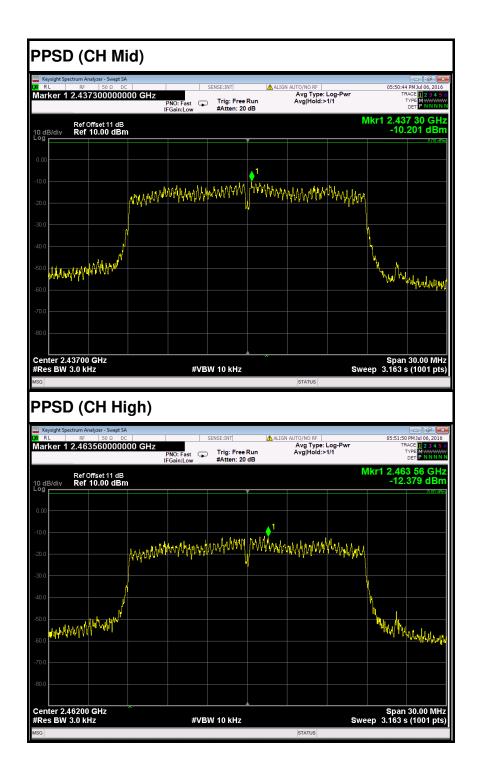
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IEEE 802.11n HT20 MHz mode (Antenna 0) PPSD (CH Low) Marker 1 2.410740000000 GHz Avg Type: Log-Pwr Avg|Hold:>1/1 PNO: Fast Trig: Free Run IFGain:Low #Atten: 20 dB 2.410 74 GH -11.048 dBr Ref Offset 11 dB Ref 15.00 dBm MWMWWWWWWWWWWWWWW hardray Center 2.41200 GHz #Res BW 3.0 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts) **#VBW 10 kHz** PPSD (CH Mid) Avg Type: Log-Pwi Avg|Hold:>1/1 Marker 1 2.437600000000 GHz 2.437 60 GH -10.621 dBr Ref Offset 11 dB Ref 15.00 dBm Andron Angraphy Marparty Center 2.43700 GHz #Res BW 3.0 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts) #VBW 10 kHz

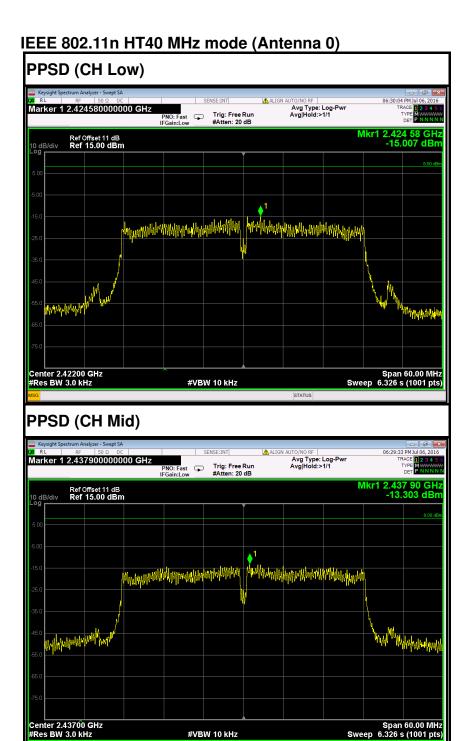
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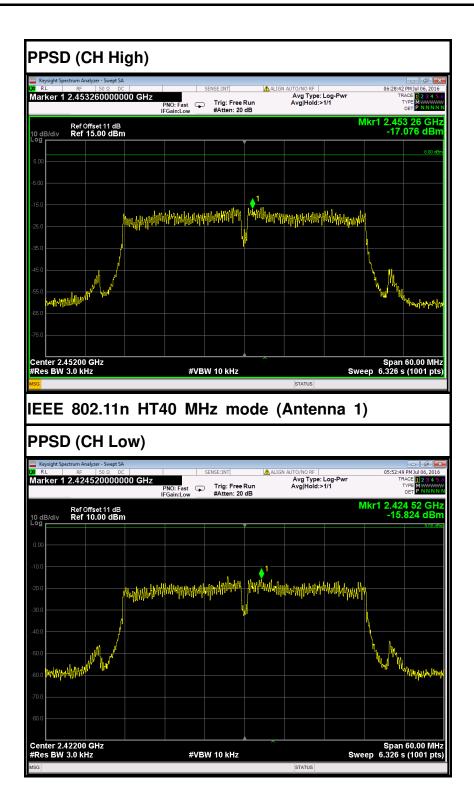


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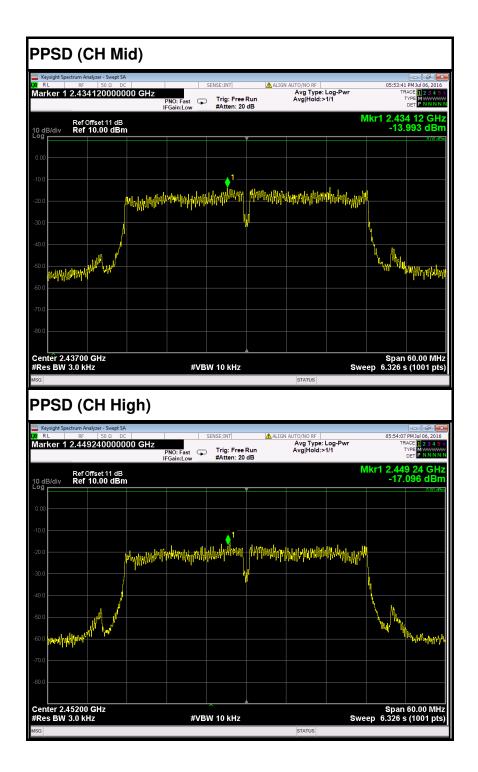


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