

FCC Test Report

Report No. : 1812C50037012502

Applicant : Shenzhen Qianyan Technology LTD

No.3301,Block C,Section 1,Chuangzhi

Address Yuncheng Building,Liuxian Avenue,Xili

Community, Xili Street, Nanshan District,

Shenzhen, 518000, China

Product Name : Govee Cone Tree Lights

Report Date : Mar. 25, 2025

Shenzhen Anbotek Compliance Laboratory Limited





FCC ID: 2A7VD-H6840

Contents

1. General Information	5
1.1. Client Information	5
1.2. Description of Device (EUT)	5
1.3. Auxiliary Equipment Used During Test	6
1.4. Description of Test Configuration	6
1.5. Description Of Test Setup	7
1.6. Test Equipment List	8
1.7. Measurement Uncertainty	9
1.8. Description of Test Facility	9
1.9. Disclaimer	10
2. Summary of Test Results	11
3. Conducted Emission Test	12
3.1. Test Standard and Limit	12
3.2. Test Setup	12
3.3. Test Procedure	12
3.4. Test Data	12
4. Radiation Spurious Emission and Band Edge Test	15
4.1. Test Standard and Limit	15
4.2. Test Setup	15
4.3. Test Procedure	16
4.4. Test Data	17
5. Maximum Conducted Output Power Test	23
5.1. Test Standard and Limit	23
5.2. Test Setup	23
5.3. Test Procedure	23
5.4. Test Data	24
6. Antenna Requirement	25
6.1. Test Standard and Requirement	25
6.2. Antenna Connected Construction	
APPENDIX I TEST SETUP PHOTOGRAPH	
APPENDIX II EXTERNAL PHOTOGRAPH	26
APPENDIX III INTERNAL PHOTOGRAPH	26



FCC ID: 2A7VD-H6840

TEST REPORT

Applicant : Shenzhen Qianyan Technology LTD

Manufacturer : Shenzhen Qianyan Technology LTD

Product Name : Govee Cone Tree Lights

Model No. : H6840, H8840

Trade Mark : Govee

Rating(s) : Input: 5V=3A

Test Standard(s) : FCC Part15 Subpart C, Section 15.247

Test Method(s) : ANSI C63.10: 2020, KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Feb. 07, 2025	
Date of Test	Feb. 07, 2025 to Feb. 18, 2025	
Prepared By	Cecilia Chen	
	(Cecilia Chen)	
Approved & Authorized Signer	Augo Chen	
	(Hugo Chen)	

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FCC ID: 2A7VD-H6840

Revision History

Report Version	Description	Issued Date	
R00	Original Issue.(Note 1)	Mar. 25, 2025	

Note 1:

This is a Class II application which was based on the original report 182512C400470102. Test sample: Govee Cone Tree Lights, test model: H6840. The difference between the original device and current one described as following:

1. Add models: "H8840".

The changes are not related with the other RF parameters, only conducted emission and radiation spurious emission were retested for model "H8840".

Code:AB-RF-05-b

Hotline 400-003-0500 www.anbotek.com



FCC ID: 2A7VD-H6840

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Qianyan Technology LTD		
Address	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China		
Manufacturer	:	henzhen Qianyan Technology LTD		
Address	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China		

1.2. Description of Device (EUT)

Product Name	:	Govee Cone Tree Lights			
Model No.		H6840, H8840			
		(Note: According to the model differences on page 6.)			
Trade Mark	:	Govee			
Test Power Supply	:	AC 120V, 60Hz for Adapter			
Test Sample No.	:	H8840: 1-1-1(Normal Sample)			
RF Specification	RF Specification				
Operation Mode	:	⊠802.11b ⊠802.11g ⊠802.11n(HT20) □802.11n(HT40)			
Operation Frequency	:	2412~2462MHz			
Number of Channel	:	11 Channel for 20MHz bandwidth (2412~2462MHz)			
		⊠ 802.11b: DSSS (CCK, DQPSK, DBPSK)			
Modulation Type		── 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Woddiation Typo		_ , , , , , , , , , , , , , , , , , , ,			
Antenna Type	:	PCB Antenna			
Antenna Gain(Peak)	:	3.98dBi			
Pamark: 1) All of the DE specification are provided by sustamor. 2) For a more detailed features					

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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FCC ID: 2A7VD-H6840

Model differences:

Model No.	Adapter	Software Version
H6840		6.2.30
H8840 (Only the software APP version is different from "H6840". (Different APP versions have different lighting effects.))	Manufacturer: Dongguan Rico Electronic Co.,Ltd Model: RKPO-UL0503000IP44-3 Input: 100-240V~50/60Hz 0.5A Output: 5V=3000mA 15W	V6.6.10

1.3. Auxiliary Equipment Used During Test

Description	Rating(s)

1.4. Description of Test Configuration

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Note:

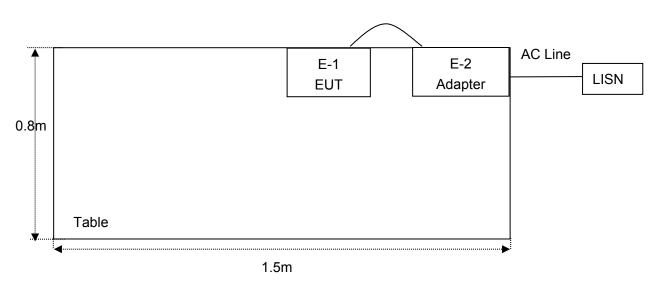
- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. For 802.11b, 802.11g, and 802.11n(HT20) modes were test with channel 1, 6, 11.



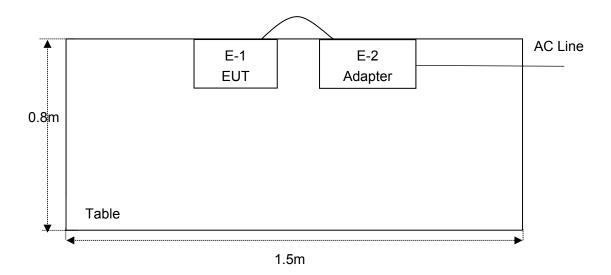
FCC ID: 2A7VD-H6840

1.5. Description Of Test Setup

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Report No.: 1812C50037012502 FCC ID: 2A7VD-H6840

1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cai. interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Sept. 09, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 13, 2025	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 13, 2025	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 14, 2025	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Sept. 09, 2024	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 13, 2025	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Sept. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Jan. 22, 2024	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 14, 2025	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Sept. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	Jan. 14, 2025	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 10, 2024	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sept. 09, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

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FCC ID: 2A7VD-H6840

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Conducted Output Power	0.76dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.



FCC ID: 2A7VD-H6840

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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FCC ID: 2A7VD-H6840

2. Summary of Test Results

Standard Section	Test Item	Result		
15.203/15.247(c)	Antenna Requirement PAS			
15.207	Conducted Emission	PASS		
15.205/15.209	Radiated Spurious Emission	PASS		
15.247(b)(3) Maximum Conduct Output Power PASS				
Remark: "N/A" is an abbreviation for Not Applicable.				



FCC ID: 2A7VD-H6840

3. Conducted Emission Test

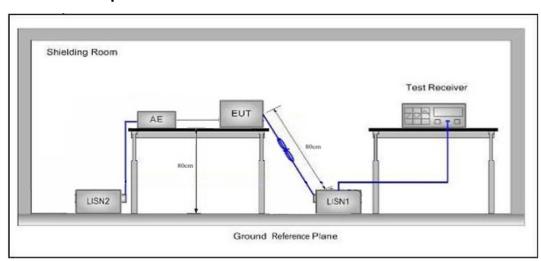
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207			
	Fraguanay	Maximum RF Line Voltage (dBuV)		
	Frequency	Quasi-peak Level	Average Level	
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
	500kHz~5MHz	56	46	
	5MHz~30MHz	60	50	

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.





FCC ID: 2A7VD-H6840

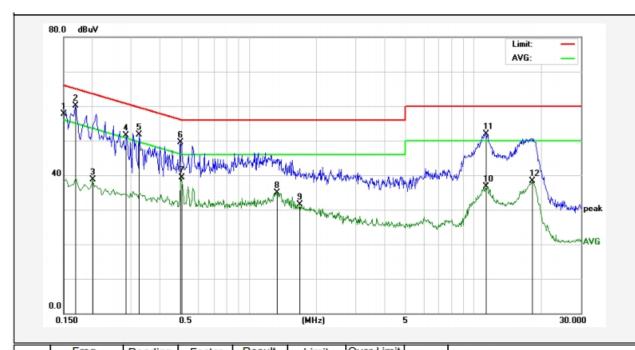
Conducted Emission Test Data

Test Site: 1# Shielded Room

Operating Condition: 802.11n(HT20) 2412MHz Test Specification: AC 120V, 60Hz for Adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 22.1°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	39.86	17.82	57.68	65.99	-8.31	QP	
2	0.1693	42.26	17.83	60.09	64.99	-4.90	QP	
3	0.2017	20.79	17.83	38.62	53.54	-14.92	AVG	
4	0.2847	33.74	17.83	51.57	60.68	-9.11	QP	
5	0.3251	33.89	17.82	51.71	59.57	-7.86	QP	
6	0.4966	31.62	17.85	49.47	56.06	-6.59	QP	
7	0.5020	21.43	17.85	39.28	46.00	-6.72	AVG	
8	1.3307	17.09	17.84	34.93	46.00	-11.07	AVG	
9	1.6891	13.69	17.84	31.53	46.00	-14.47	AVG	
10	11.3170	18.69	18.03	36.72	50.00	-13.28	AVG	
11	11.3771	33.92	18.03	51.95	60.00	-8.05	QP	
12	18.2316	20.01	18.26	38.27	50.00	-11.73	AVG	





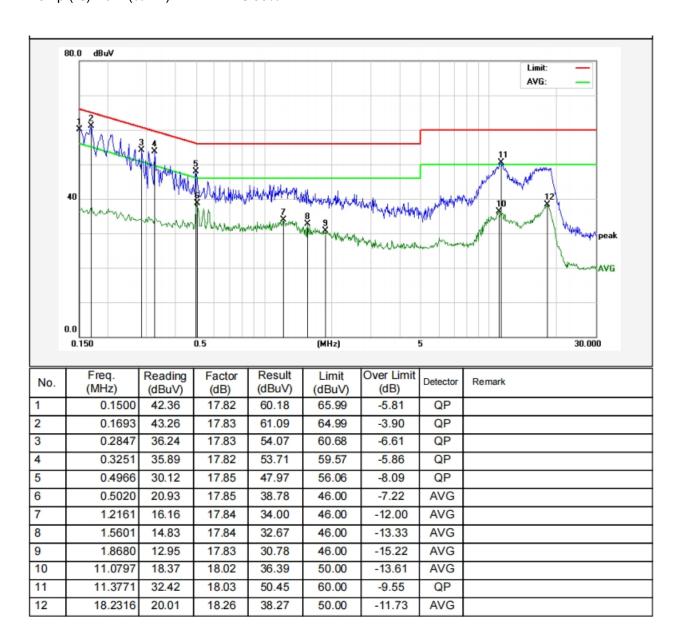
FCC ID: 2A7VD-H6840

Conducted Emission Test Data

Test Site: 1# Shielded Room

Operating Condition: 802.11n(HT20) 2412MHz
Test Specification: AC 120V, 60Hz for Adapter

Comment: Neutral Line Temp.(°C)/Hum.(%RH): 22.1°C/50%RH





FCC ID: 2A7VD-H6840

4. Radiation Spurious Emission and Band Edge Test

4.1. Test Standard and Limit

Test Standard FCC Part15 C Section 15.209 and 15.205								
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3			
	88MHz~216MHz	150	43.5	Quasi-peak	3			
	216MHz~960MHz	200	46.0	Quasi-peak	3			
	960MHz~1000MHz	500	54.0	Quasi-peak	3			
	Above 1000MHz	500	54.0	Average	3			
	Above 1000IVIHZ	-	74.0	Peak	3			

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

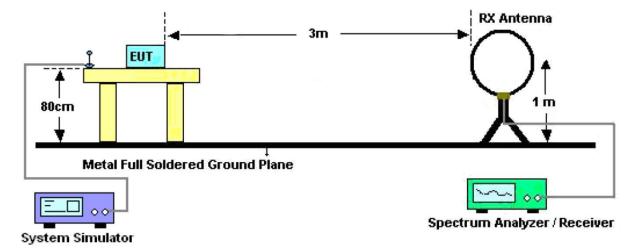


Figure 1. Below 30MHz

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FCC ID: 2A7VD-H6840

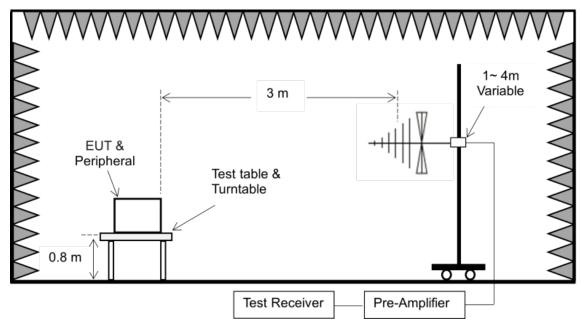


Figure 2. 30MHz to 1GHz

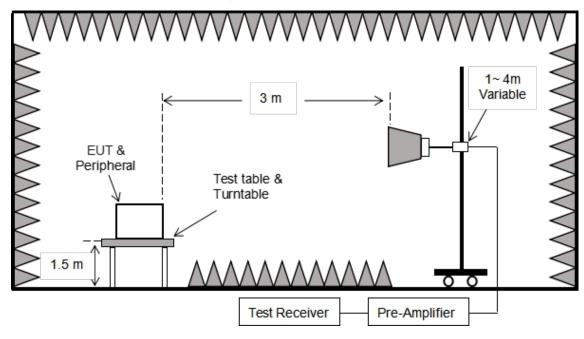


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.1m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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FCC ID: 2A7VD-H6840

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

- -VBW=10Hz, When duty cycle is no less than 98 percent
- –VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

Hotline



FCC ID: 2A7VD-H6840

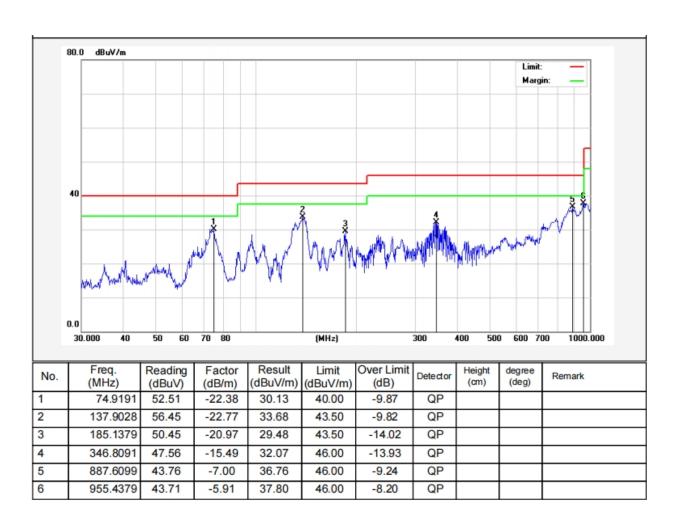
Test Results (30~1000MHz)

Test Mode: 802.11n(HT20) 2412MHz

Power Source: AC 120V, 60Hz for Adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 25.3°C/54%RH





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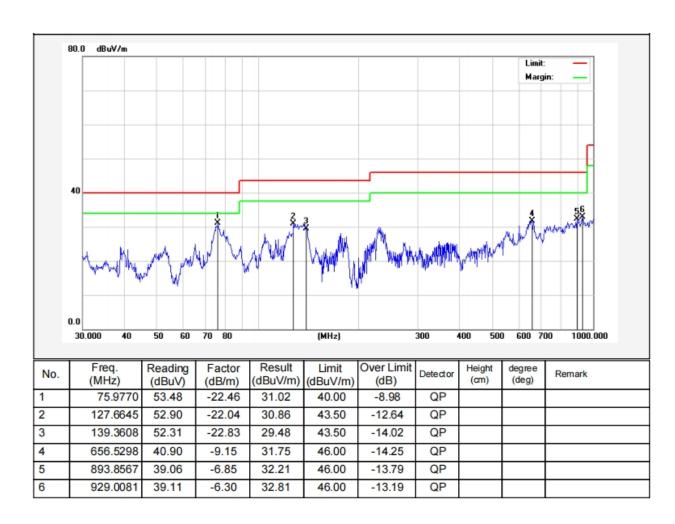
Test Results (30~1000MHz)

Test Mode: 802.11n(HT20) 2412MHz

Power Source: AC 120V, 60Hz for Adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 25.3°C/54%RH





FCC ID: 2A7VD-H6840

Test Results (Above 1000MHz)

Test Mode: 802.1	11n(HT20) Mc	de	Test channel: Lowest			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	31.46	15.31	46.77	74.00	-27.23	Vertical
7236.00	31.68	18.06	49.74	74.00	-24.26	Vertical
9648.00	33.67	23.77	57.44	74.00	-16.56	Vertical
12060.00	*			74.00		Vertical
14472.00	*			74.00		Vertical
4824.00	31.77	15.31	47.08	74.00	-26.92	Horizontal
7236.00	32.03	18.06	50.09	74.00	-23.91	Horizontal
9648.00	29.08	23.77	52.85	74.00	-21.15	Horizontal
12060.00	*			74.00		Horizontal
14472.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	22.55	15.31	37.86	54.00	-16.14	Vertical
7236.00	22.55	18.06	40.61	54.00	-13.39	Vertical
9648.00	23.92	23.77	47.69	54.00	-6.31	Vertical
12060.00	*			54.00		Vertical
14472.00	*			54.00		Vertical
4824.00	22.32	15.31	37.63	54.00	-16.37	Horizontal
7236.00	22.61	18.06	40.67	54.00	-13.33	Horizontal
9648.00	20.05	23.77	43.82	54.00	-10.18	Horizontal
12060.00	*			54.00		Horizontal
14472.00	*			54.00		Horizontal

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Report No.: 1812C50037012502 FCC ID: 2A7VD-H6840

Test Results (Above 1000MHz)

(Fin						
Test Mode: 802.1	11n(HT20) Mo	de	Test channel: Middle			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	32.83	15.41	48.24	74.00	-25.76	Vertical
7311.00	31.87	18.01	49.88	74.00	-24.12	Vertical
9748.00	33.99	23.79	57.78	74.00	-16.22	Vertical
12185.00	*			74.00		Vertical
14622.00	*			74.00		Vertical
4874.00	32.76	15.41	48.17	74.00	-25.83	Horizontal
7311.00	34.60	18.01	52.61	74.00	-21.39	Horizontal
9748.00	32.52	23.79	56.31	74.00	-17.69	Horizontal
12185.00	*			74.00		Horizontal
14622.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	23.53	15.41	38.94	54.00	-15.06	Vertical
7311.00	21.77	18.01	39.78	54.00	-14.22	Vertical
9748.00	24.69	23.79	48.48	54.00	-5.52	Vertical
12185.00	*			54.00		Vertical
14622.00	*			54.00		Vertical
4874.00	22.66	15.41	38.07	54.00	-15.93	Horizontal
7311.00	24.00	18.01	42.01	54.00	-11.99	Horizontal
9748.00	22.42	23.79	46.21	54.00	-7.79	Horizontal
12185.00	*			54.00		Horizontal
14622.00	*			54.00		Horizontal





FCC ID: 2A7VD-H6840

Test Results (Above 1000MHz)

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Test Mode: 802.1	1n(HT20) Mo	de	Test channel: Highest			
Peak value:				<u>'</u>		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	31.00	15.51	46.51	74.00	-27.49	Vertical
7386.00	31.40	17.97	49.37	74.00	-24.63	Vertical
9848.00	33.96	23.82	57.78	74.00	-16.22	Vertical
12310.00	*			74.00		Vertical
14772.00	*			74.00		Vertical
4924.00	29.96	15.51	45.47	74.00	-28.53	Horizontal
7386.00	31.90	17.97	49.87	74.00	-24.13	Horizontal
9848.00	28.97	23.82	52.79	74.00	-21.21	Horizontal
12310.00	*			74.00		Horizontal
14772.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	21.93	15.51	37.44	54.00	-16.56	Vertical
7386.00	22.32	17.97	40.29	54.00	-13.71	Vertical
9848.00	24.47	23.82	48.29	54.00	-5.71	Vertical
12310.00	*			54.00		Vertical
14772.00	*			54.00		Vertical
4924.00	21.33	15.51	36.84	54.00	-17.16	Horizontal
7386.00	22.30	17.97	40.27	54.00	-13.73	Horizontal
9848.00	20.24	23.82	44.06	54.00	-9.94	Horizontal
12310.00	*			54.00		Horizontal
14772.00	*			54.00		Horizontal

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20) mode, and found the 802.11n(HT20) mode is worse case, the report only record this mode.
- 2. Result=Reading + Factor
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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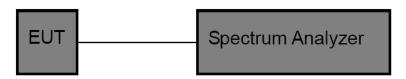
FCC ID: 2A7VD-H6840

5. Maximum Conducted Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	1W (30dBm)

5.2. Test Setup



5.3. Test Procedure

- 1. Measure the duty cycle D of the transmitter output signal.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- 4. Set VBW ≥ [3 × RBW].
- 5. Number of points in sweep ≥ [2 × span / RBW].
- 6. Sweep time = auto.
- 7. Detector = RMS
- 8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- 9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- 10. Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

Code:AB-RF-05-b

Hotline 400-003-0500 www.anbotek.com



FCC ID: 2A7VD-H6840

5.4. Test Data

Pass

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle	DC Factor	Result [dBm]	Limit [dBm]	Verdict
			[ubiii]	[%]	[dB]			
11B	Ant1	2412	14.40	94.05	0.27	14.67	≤30.00	PASS
11B	Ant1	2437	13.73	94.27	0.26	13.99	≤30.00	PASS
11B	Ant1	2462	12.03	93.95	0.27	12.30	≤30.00	PASS
11G	Ant1	2412	12.56	71.28	1.47	14.03	≤30.00	PASS
11G	Ant1	2437	12.44	72.02	1.43	13.87	≤30.00	PASS
11G	Ant1	2462	11.11	71.65	1.45	12.56	≤30.00	PASS
11N20SISO	Ant1	2412	14.37	70.65	1.51	15.88	≤30.00	PASS
11N20SISO	Ant1	2437	13.64	70.65	1.51	15.15	≤30.00	PASS
11N20SISO	Ant1	2462	12.22	71.43	1.46	13.68	≤30.00	PASS

Note: For pre-scan, the result is equal to original, so the original data is referenced.



FCC ID: 2A7VD-H6840

6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 3.98dBi. It complies with the standard requirement.

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FCC ID: 2A7VD-H6840

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

 End of Report	
-na or report	