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FCC Test Report

Shenzhen Qianyan Technology LTD Applicant

No.3301, Block C, Section 1, Chuangzhi

Yuncheng Building, Liuxian Avenue, Xili **Address**

Community, Xili Street, Nanshan District,

Shenzhen, 518000, China

Govee Smart TV Backlight 3S Product Name

Report Date Mar. 27, 2024











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TEST REPORT

Applicant Shenzhen Qianyan Technology LTD

Manufacturer Shenzhen Qianyan Technology LTD

Product Name Govee Smart TV Backlight 3S

Test Model No. H6098D

Reference Model No.

Trade Mark Govee

Input: 12V-0.4A Rating(s)

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	Jan. 25, 2024
Date of Test	Jan. 25 ~ Mar. 23, 2024
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Prepared by	ek Anborek Anborek Anbore
And Arek Anbotes And	(Nianxiu Chen)
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Approved & Authorized Signer	Aribo Oto Anborek Anbore Anborek
Anbotek Anbotek Anbotek	(Edward Pan)









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Revision History

Report Vers	ion		Description			Issued Date
R00	Anbo	ek Aupo,	Original Issue.	hote. An	abotek	Mar. 27, 2024
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botek Anbote	. e.k	Anborek A	nbotek Anbote ntek	Ambotek	Anbot	er Anborek

Note:

This is a Class II application which was based on the original report 18220WC30225101. The difference between the original device and current one described as following:

1. Added model H6098D with different adapters, lamp lengths, and camera housing lengths. The changes are not related with the other RF parameters, only conducted emission and radiation spurious emission were retested.





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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	: 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

1.2. Description of Device (EUT)

Product Name	:	Govee Smart TV Backlight 3S
Test Model No.	:	H6098D
Reference Model No.	:	N/A Arib tek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Govee Andrew Andrew Andrew Andrew
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
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)
Modulation Type	:	 ⊠ 802.11b: DSSS (CCK, DQPSK, DBPSK) ⊠ 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) ⊠ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	:	FPC antenna
Antenna Gain(Peak)	:	4.88 dBi
Pomark:		And

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.

Differences in model accessories:

Model No.	Length of light string	Camera	Adapter	Differences
HOOOD	5m	135mm	Model No.: YXTG36US-1203000 Input:100-240V~50/60Hz 1.0A Max Output: 12V 3.0A 36.0W	Anbotek Anbotek Anbotek
H6098D	5m	135mm	Model: BI36GL-120300-AdU Input: 100-240V~ 50/60Hz 1A Output: 12V 3A	Only the adapter is different.

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1.3. Auxiliary Equipment Used During Test

Description			Rat	ting(s)						
1 botek	Anbor	bu.	J-	Anboten	AUR	40.	botek	Anbo	bu.	stek

1.4. Description of Test Configuration

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07 N	2442	3501°10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	100	

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.





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1.5. Description Of Test Setup

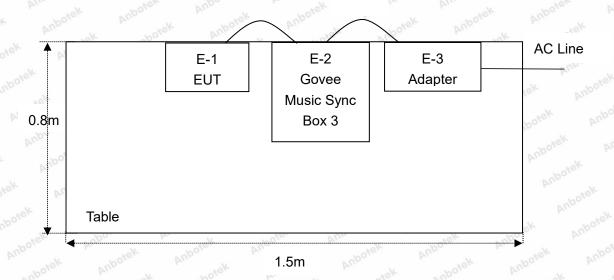
E-1 E-2 E-3 AC Line LISN

O.8m

Table

1.5m

RE



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbo 1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 12, 2023	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 12, 2023	1 Year
5. _{An}	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 12, 2023	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	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 12, 2023	1 Year
, 11.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A M	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 16, 2023	1 Year
18.	Power Meter	Agilent	N1914A	MY50001102	Oct. 20, 2023	1 Year
19.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 26, 2023	1 Year





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1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.







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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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2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS





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3. Conducted Emission Test

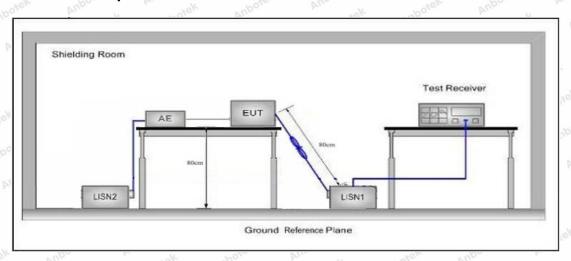
3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15	5.207	hotek Anbores Anbo				
	Fraguency	Maximum RF Line Voltage (dBuV)					
Test Limit	Frequency	Quasi-peak Level	Average Level				
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	Anbore 46 Anb				
	5MHz~30MHz	Mek Am 60	tek nbote 50 Anbo				

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.

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.

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Conducted Emission Test Data

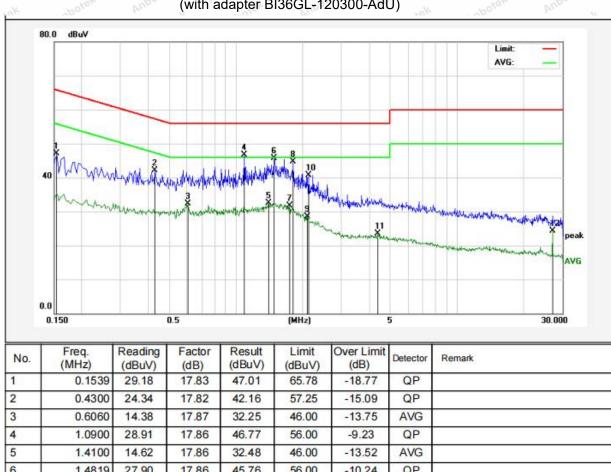
Test Site: 1# Shielded Room 802.11b (2462MHz) **Operating Condition:**

Test Specification: AC 120V, 60Hz for Adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 21.4°C/52%RH

(with adapter BI36GL-120300-AdU)



2	0.4300	24.34	17.82	42.16	57.25	-15.09	QP		
3	0.6060	14.38	17.87	32.25	46.00	-13.75	AVG		
4	1.0900	28.91	17.86	46.77	56.00	-9.23	QP		
5	1.4100	14.62	17.86	32.48	46.00	-13.52	AVG		
6	1.4819	27.90	17.86	45.76	56.00	-10.24	QP		
7	1.7460	13.83	17.85	31.68	46.00	-14.32	AVG		
8	1.8180	26.85	17.86	44.71	56.00	-11.29	QP		
9	2.1099	10.57	17.85	28.42	46.00	-17.58	AVG		
10	2.1380	22.87	17.85	40.72	56.00	-15.28	QP		
11	4.3859	5.70	17.85	23.55	46.00	-22.45	AVG		
12	26.9980	5.80	18.59	24.39	50.00	-25.61	AVG		
_	20.37		- 05					DAY:	- 6357





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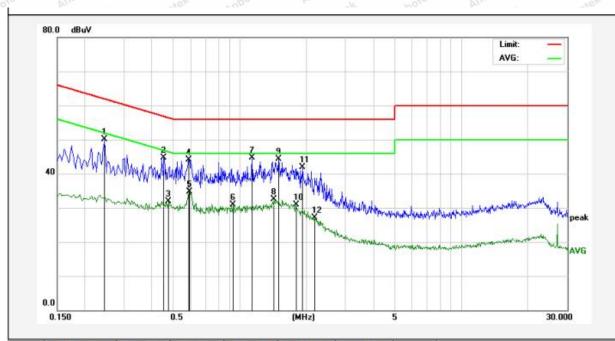
Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 802.11b (2462MHz)

Test Specification: AC 120V, 60Hz for Adapter

Comment: Neutral Line Temp.($^{\circ}$ C)/Hum.($^{\circ}$ RH): 21.4 $^{\circ}$ C/52 $^{\circ}$ RH

(with adapter BI36GL-120300-AdU)



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2460	32.27	17.82	50.09	61.89	-11.80	QP	
2	0.4540	26.86	17.84	44.70	56.80	-12.10	QP	
3	0.4780	14.04	17.85	31.89	46.37	-14.48	AVG	
4	0.5899	26.31	17.86	44.17	56.00	-11.83	QP	
5	0.5940	16.84	17.86	34.70	46.00	-11.30	AVG	
6	0.9340	13.12	17.86	30.98	46.00	-15.02	AVG	
7	1.1380	26.75	17.86	44.61	56.00	-11.39	QP	
8	1.4299	14.59	17.86	32.45	46.00	-13.55	AVG	
9	1.4980	26.43	17.85	44.28	56.00	-11.72	QP	
10	1.7980	13.14	17.86	31.00	46.00	-15.00	AVG	
11	1.9220	24.02	17.85	41.87	56.00	-14.13	QP	
12	2.1740	9.17	17.85	27.02	46.00	-18.98	AVG	





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Conducted Emission Test Data

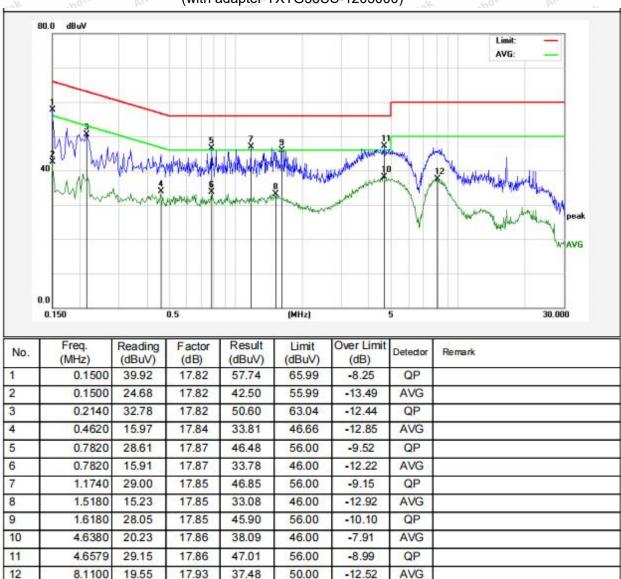
Test Site: 1# Shielded Room Operating Condition: 802.11b (2462MHz)

Test Specification: AC 120V, 60Hz for Adapter

Comment: Live Line

Temp.(°C)/Hum.(%RH): 21.4°C/52%RH

(with adapter YXTG36US-1203000)







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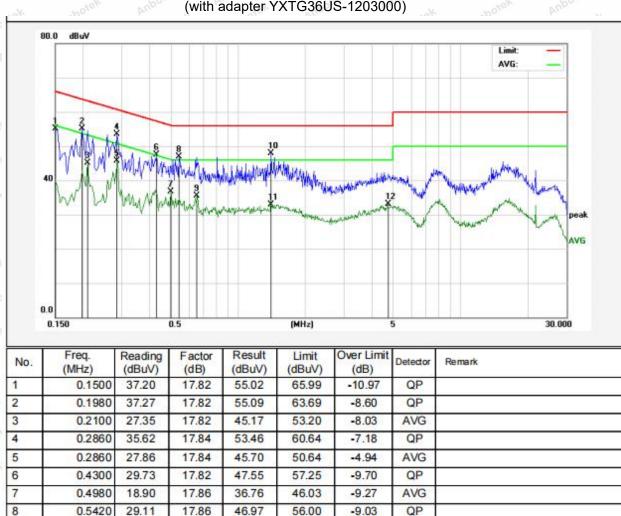
Conducted Emission Test Data

Test Site: 1# Shielded Room **Operating Condition:** 802.11b (2462MHz)

Test Specification: AC 120V, 60Hz for Adapter

Comment: **Neutral Line** Temp.(°C)/Hum.(%RH): 21.4°C/52%RH

(with adapter YXTG36US-1203000)



0.6540

1.4060

1.4060

4.7020

17.67

30.11

15.13

15.23

9

10

11

12



17.87

17.86

17.86

17.86

35.54

47.97

32.99

33.09

46.00

56.00

46.00

46.00

-10.46

-8.03

-13.01

-12.91

AVG

QP

AVG

AVG



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15	5.209 and 15.205	ou yek nob	otek Anbot	bus bus
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	k Anbotek	Aupo	300
	0.490MHz-1.705MHz	24000/F(kHz)	otek - Anbotel	Vupo.	30,000
	1.705MHz-30MHz	30	shotek - Anbr	Ver Tupo	nek 30 mbote
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	totek 3 Ant
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3rek
	960MHz~1000MHz	Anbore 500 Anbo	54.0	Quasi-peak	3 hotek
	Above 1000MHz	500	54.0	Average	3 botel
	Above 1000MHz	Anhotel A	74.0	Peak Mar	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

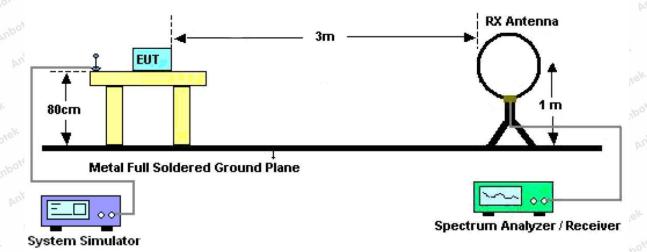


Figure 1. Below 30MHz







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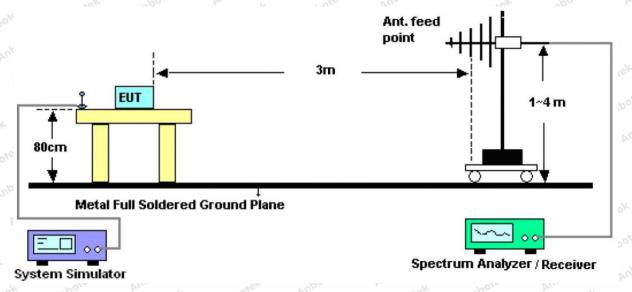


Figure 2. 30MHz to 1GHz

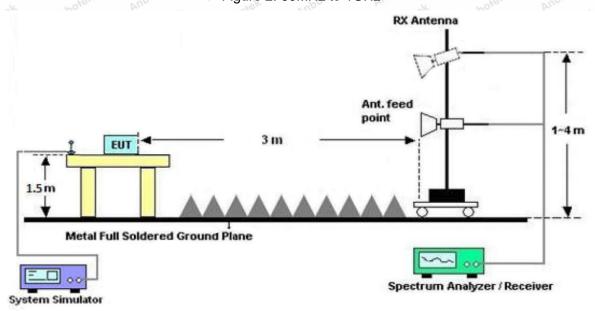


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m 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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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.







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Test Results (30~1000MHz)

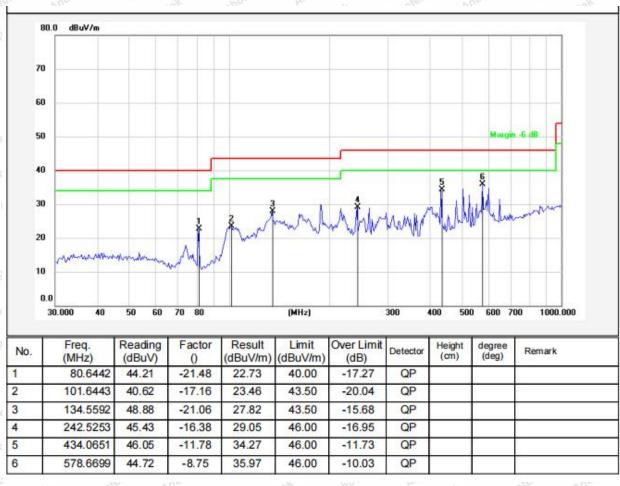
Test Mode: 802.11b (2462MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 20.1°C/49%RH

(with adapter BI36GL-120300-AdU)







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Test Results (30~1000MHz)

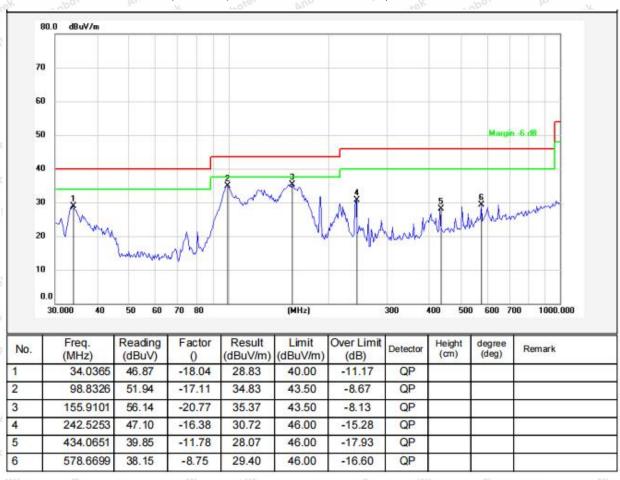
Test Mode: 802.11b (2462MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 20.1°C/49%RH

(with adapter BI36GL-120300-AdU)







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Test Results (30~1000MHz)

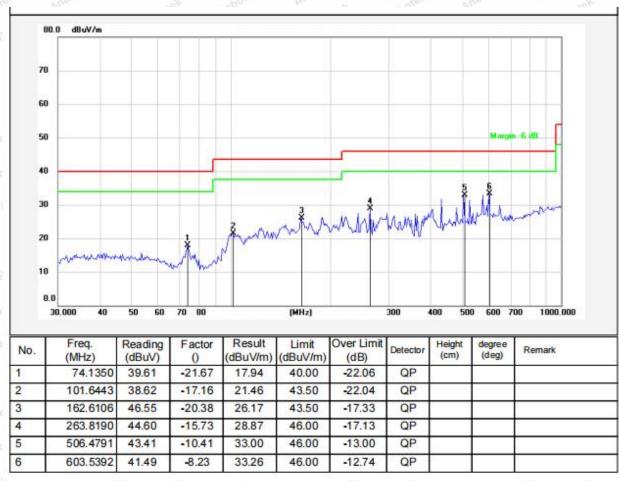
Test Mode: 802.11b (2462MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 20.1°C/49%RH

(with adapter YXTG36US-1203000)







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Test Results (30~1000MHz)

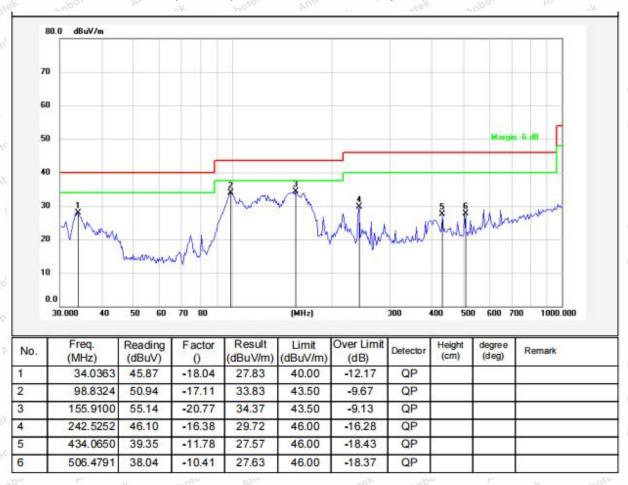
Test Mode: 802.11b (2462MHz)

Power Source: AC 120V, 60Hz for adapter

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 20.1°C/49%RH

(with adapter YXTG36US-1203000)







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Test Results (Above 1000MHz)

T 114 1 000 1	41 14 1	VUD.		-po,	b.,	Ac.		
Test Mode: 802.1	1b Mode		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	27.24	15.31	42.55	74.00	-31.45	Vertical		
7236.00	28.96	18.06	47.02	74.00	-26.98	Vertical		
9648.00	28.51	23.77	52.28	74.00	-21.72	Vertical		
12060.00	orek * anbo	Vice Vice	ek abotel	74.00	Projek.	Vertical		
14472.00	sek *	potek Anbo	-/r M	74.00	Vice	Vertical		
4824.00	26.77	15.31	42.08	74.00	-31.92	Horizontal		
7236.00	28.78	18.06	46.84	74.00	-27.16	Horizontal		
9648.00	27.67	23.77	51.44	74.00	-22.56	Horizontal		
12060.00	* hotek	Auper	hotek	74.00	VII.	Horizontal		
14472.00	rek * abot	ek Vupou	r Pur	74.00	Anbo.	Horizontal		
Average value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4824.00	19.26	15.31	34.57	54.00	-19.43	Vertical		
7236.00	20.74	18.06	38.80	54.00	-15.20	Vertical		
9648.00	20.41	23.77	44.18	54.00	-9.82	Vertical		
12060.00	te, * Vue	ek abote	k Aupo.	54.00	Anbore.	Vertical		
14472.00	botek * Ant	D. P	otek Anbot	54.00	ek nbotel	Vertical		
4824.00	19.28	15.31	34.59	54.00	-19.41	Horizontal		
7236.00	21.35	18.06	39.41	54.00	-14.59	Horizontal		
9648.00	19.41	23.77	43.18	54.00	-10.82	Horizontal		
12060.00	₽8po.	k hotek	Aupoie	54.00	nbotek	Horizontal		
14472.00	ek * Aupon	p.e.	Model	54.00	botek	Horizontal		





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Test Results (Above 1000MHz)

20° Pr		VUD	- 1/0-	-100°	Pre-	- No.	
Test Mode: 802.1	1b Mode			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	27.19	15.41	42.60	74.00	-31.40	Vertical	
7311.00	27.31	18.01	45.32	74.00	-28.68	Vertical	
9748.00	28.45	23.79	52.24	74.00	-21.76	Vertical	
12185.00	oter * And	tek abot	Yupo,	74.00	Anbote	Vertical	
14622.00	abotek * An	0. V.	otek Anbo	74.00	ek abote	Vertical	
4874.00	26.57	15.41	41.98	74.00	-32.02	Horizontal	
7311.00	27.70	18.01	45.71	74.00	-28.29	Horizontal	
9748.00	27.97	23.79	51.76	74.00	-22.24	Horizontal	
12185.00	*	k polek	Anbore	74.00	Mpoter	Horizontal	
14622.00	tek * Anbor	r Pur	k Anbotel	74.00	abotek	Horizontal	
Average value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4874.00	18.01	15.41	33.42	54.00	-20.58	Vertical	
7311.00	18.21	18.01	36.22	54.00	-17.78	Vertical	
9748.00	18.70	23.79	42.49	54.00	-11.51	Vertical	
12185.00	tek *	tek Aupo,	ok hop	54.00	Yun Fek	Vertical	
14622.00	*	botek Anb	Le Burn	54.00	Anbo.	Vertical	
4874.00	17.67	15.41	33.08	54.00	-20.92	Horizontal	
7311.00	17.78	18.01	35.79	54.00	-18.21	Horizontal	
9748.00	18.68	23.79	42.47	54.00	-11.53	Horizontal	
12185.00	ak * abotely	Anbore	Vi.	54.00	Aupo.	Horizontal	
14622.00	*	lek vupoter	Aug	54.00	Anbo	Horizontal	





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Test Results (Above 1000MHz)

Test Mode: 802.1	1b Mode			Test channel: Highest			
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4924.00	27.05	15.51	42.56	74.00	-31.44	Vertical	
7386.00	27.25	17.97	45.22	74.00	-28.78	Vertical	
9848.00	27.89	23.82	51.71	74.00	-22.29	Vertical	
12310.00	oten * Anos	rek abo	sk Aupora	74.00	Anbotell	Vertical	
14772.00	abotek * An	/0. by	otek Anbo	74.00	tek aboti	Vertical	
4924.00	27.23	15.51	42.74	74.00	-31.26	Horizontal	
7386.00	28.05	17.97	46.02	74.00	-27.98	Horizontal	
9848.00	28.47	23.82	52.29	74.00	-21.71	Horizontal	
12310.00	*upo	k hotek	Anbore	74.00	upotek	Horizontal	
14772.00	otek * Wupo,	k hu	ik Anboter	74.00	abotek	Horizontal	
Average value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4924.00	17.84	15.51	33.35	54.00	-20.65	Vertical	
7386.00	17.65	17.97	35.62	54.00	-18.38	Vertical	
9848.00	19.14	23.82	42.96	54.00	-11.04	Vertical	
12310.00	stek * anb	otek Aupo	ak hot	54.00	And	Vertical	
14772.00	*	sbotek Ant	Die Burn	54.00	Sr. Yup	Vertical	
4924.00	17.48	15.51	32.99	54.00	-21.01	Horizontal	
7386.00	18.16	17.97	36.13	54.00	-17.87	Horizontal	
9848.00	18.91	23.82	42.73	54.00	-11.27	Horizontal	
12310.00	ek * abotel	Anbox	P. Potek	54.00	Aug	Horizontal	
14772.00	*	rek anbore	Ville	54.00	Pupe,	Horizontal	

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20) mode, and found the 802.11b 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.







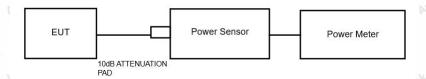
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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

	Test Standard	FCC Part15 C Secti	on 15.247 (b)(3)	An aborek	Anboten	Anbo
-0	Test Limit	1W (30dBm)	Anbotek	Anbo.	A. abotek	Anboten	And

5.2. Test Setup



5.3. Test Procedure

- 1. The Transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the power value.
- 3. Repeat above procedures on all channels needed to be tested.

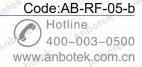
Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Pass

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

TestMode Antenna		Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	
Ans	abotek Ar	2412	16.53	≤30.00	
11B	Ant1	2437	16.60	≤30.00	
botek Anbore	Ann	2462	16.61	≤30.00	
aris otek anborr	Anbo rek	2412	15.86	≤30.00	
11G	Ant1	2437	16.07	≤30.00	
Anbo, A.	hotek Anbot	2462	16.15	≤30.00	
Anbore	And otek An	2412	15.87	≤30.00	
11N20SISO	Ant1	2437	16.00	≤30.00	
Lek abotek	Anbore	2462	16.22	≤30.00	







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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
	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
Requirement	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 FPC antenna which permanently attached, and the best case gain of the antenna is 4.88 dBi It complies with the standard requirement.







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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----

