



Radio Test Report

Report No.:STS2506303W04

Issued for

Buddi Limited

Talbot House 17 Church Street Rickmansworth, WD3 1DE
United Kingdom

Product Name: Smart Tag 5

Brand Name: buddi

Model Name: S1-BUD-2-TENX-B-TEEU-MIA

Series Model(s): 3430020

FCC ID: ZDLST11

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name : Buddi Limited
Address..... : Talbot House 17 Church Street Rickmansworth, WD3 1DE United Kingdom
Manufacturer's Name..... : Buddi Limited
Address..... : Talbot House 17 Church Street Rickmansworth, WD3 1DE United Kingdom

Product Description

Product Name : Smart Tag 5
Brand Name : buddi
Model Name..... : S1-BUD-2-TENX-B-TEEU-MIA
Series Model(s) : 3430020
Test Standards : FCC Part 15.247

Test Procedure..... : ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test..... :

Date of receipt of test item..... : 10 June 2025
Date (s) of performance of tests..... : 10 June 2025 ~ 23 June 2025
Date of Issue : 23 June 2025
Test Result : **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)



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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	23 June 2025	STS2506303W04	ALL	Initial Issue

Note:

- (1) The conducted data in the original report and the current report have not changed.
- (2) The current report only updates the radiated emission.



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Test Item	Judgment	Remark
15.209	Radiated Spurious Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2020.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart Tag 5	
Brand Name	buddi	
Model Name	S1-BUD-2-TENX-B-TEEU-MIA	
Series Model(s)	3430020	
Model Difference	The difference only in the model name.	
Product Description	The EUT is a Smart Tag 5	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps
	Number of Channel:	802.11b/g/n20: 11CH
	Antenna Type:	SMD antenna
	Antenna Gain:	-0.8 dBi
Channel List	Please refer to the Note 3.	
Adapter	Model: On Body Charger Dock Input: AC 100-240V 47-63Hz 0.4A Output: DC 5.99V 2000mA Model: On Body Charger V4 Input: DC 5.99V, 2000mA Output: DC 5V, 800mA	
Battery	Model: HCP623536TNFC-1S2P Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity:1800mAh	
Rating	Input: DC 5V, 800mA	
Hardware version number	V15.11	
Software version number	1.41.15	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Operation Frequency of channel	
802.11b/g/n(20MHz)	
Channel	Frequency
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for available U.S. voltage (For battery 3.7V) for which the device is capable of operation, and the worst case of battery 3.7V is shown in the report.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	-0.8	Default	The EUT has signal transmission when it is powered on
		802.11g		Default	
		802.11n(HT20)		Default	



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
	N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FENG	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			



3. EMC EMISSION TEST

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6



13.36-13.41			
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For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

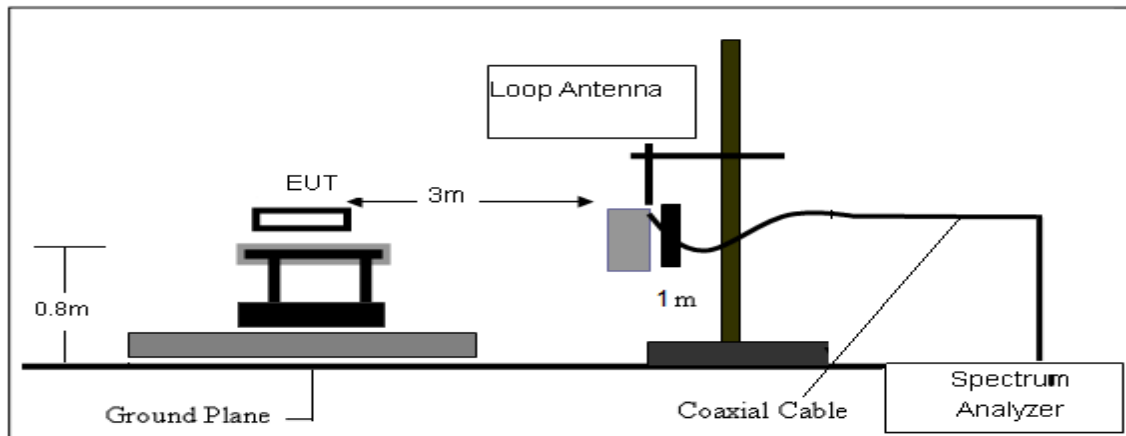
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

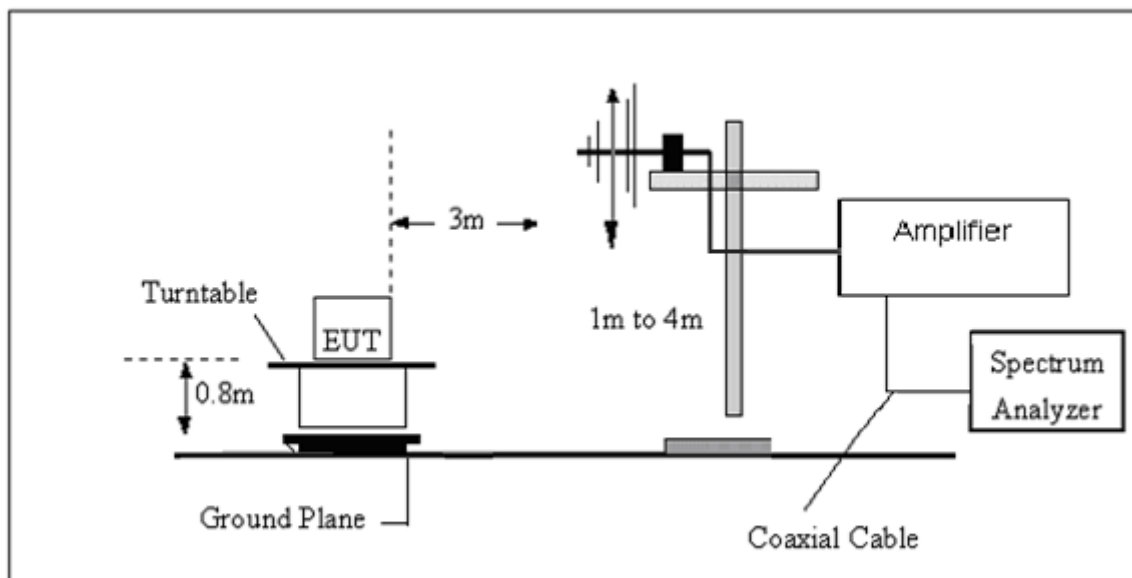
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.1.3 TEST SETUP

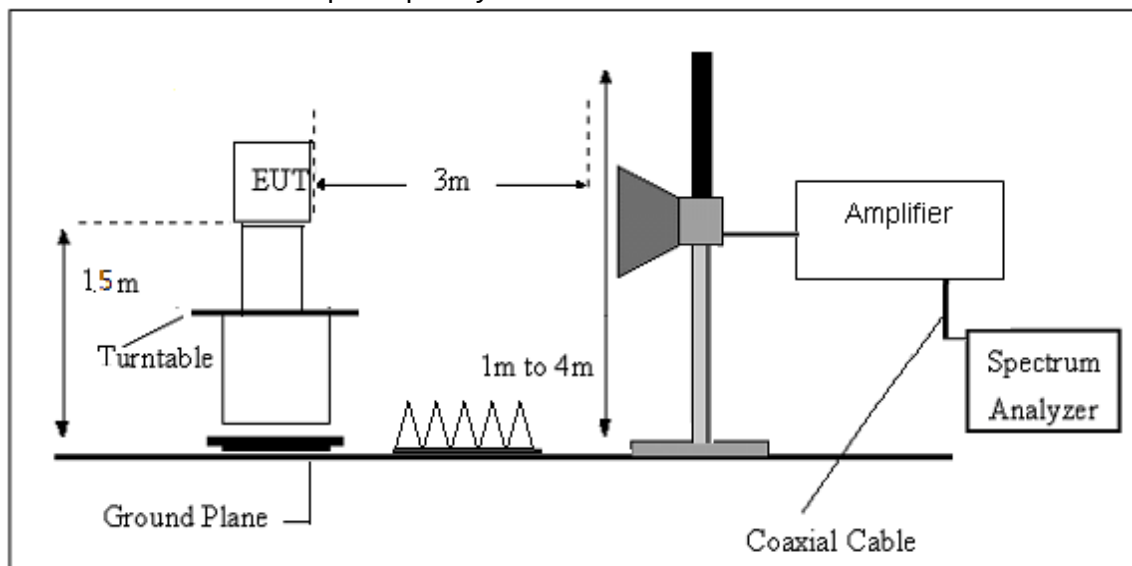
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.1.4 EUT OPERATING CONDITIONS



Please refer to section 3.1.4 of this report.

3.1.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.1.6 TEST RESULT

9KHz-30MHz

Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



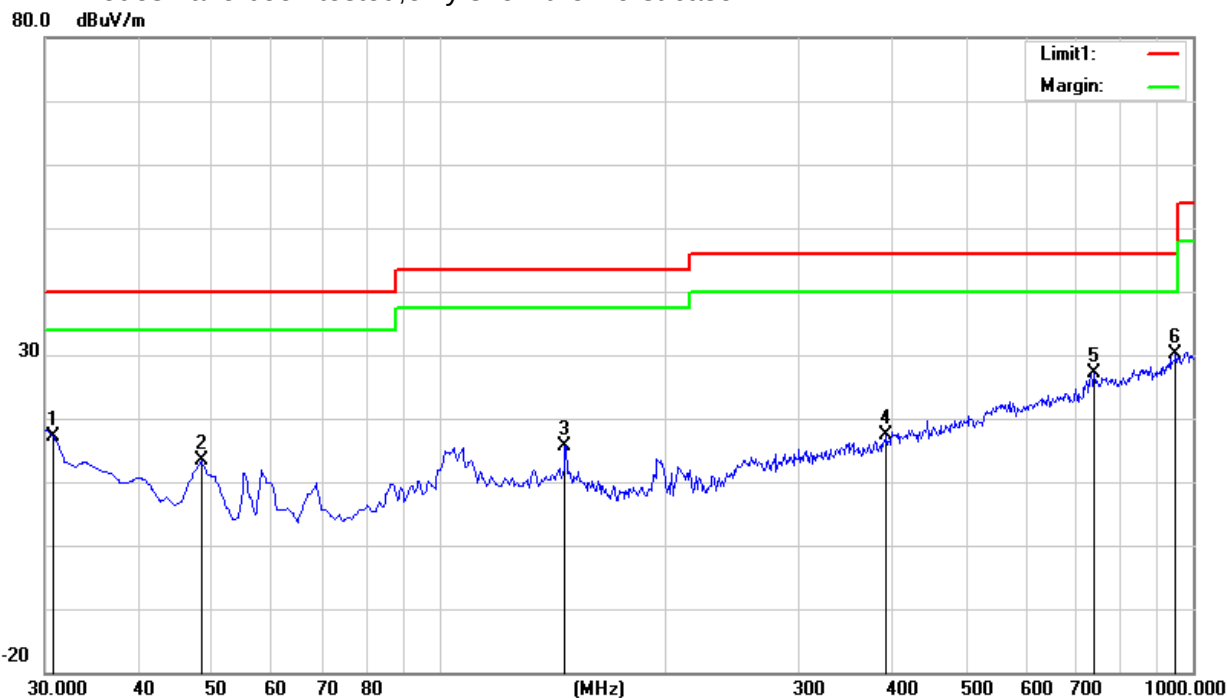
(30MHz - 1000MHz)

Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.7455	30.45	-13.24	17.21	40.00	-22.79	peak
2	48.4300	35.71	-22.44	13.27	40.00	-26.73	peak
3	147.3700	34.13	-18.42	15.71	43.50	-27.79	peak
4	392.7800	28.92	-11.46	17.46	46.00	-28.54	peak
5	741.0100	29.16	-2.11	27.05	46.00	-18.95	peak
6	951.5000	28.54	1.62	30.16	46.00	-15.84	peak

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.





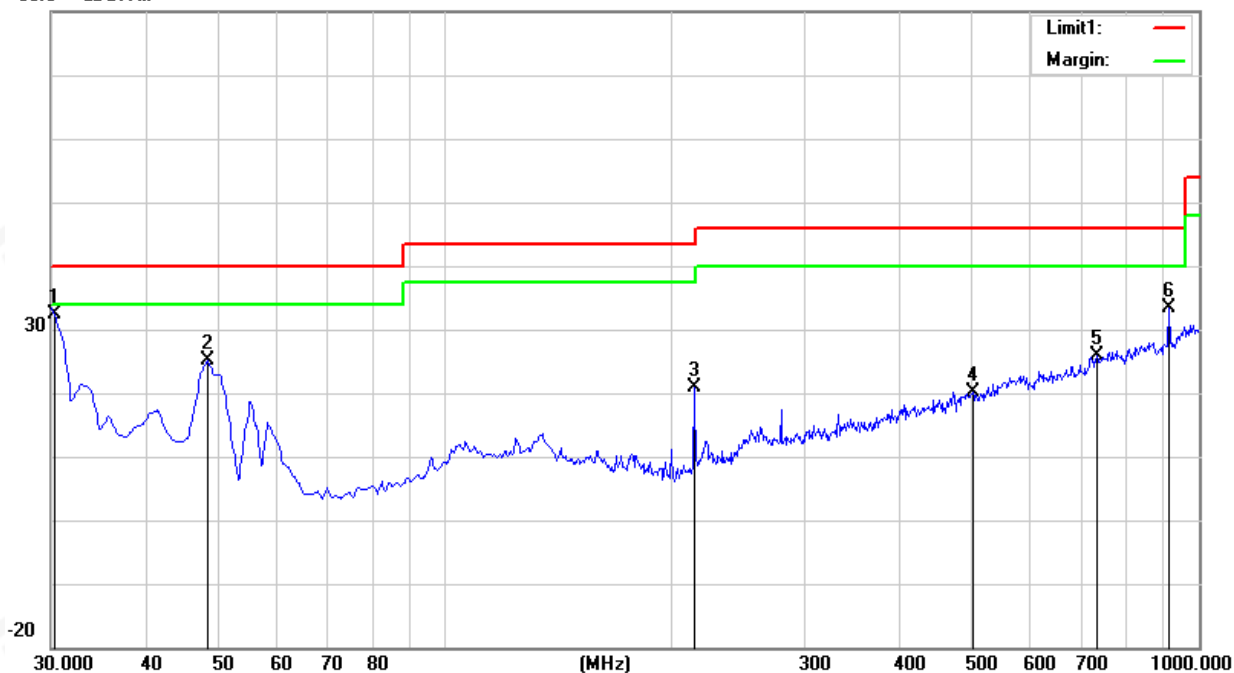
Temperature:	23.1℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 9 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.3173	45.39	-13.01	32.38	40.00	-7.62	peak
2	48.4300	47.57	-22.44	25.13	40.00	-14.87	peak
3	214.3000	41.04	-20.21	20.83	43.50	-22.67	peak
4	501.4200	28.19	-8.00	20.19	46.00	-25.81	peak
5	733.2500	28.20	-2.35	25.85	46.00	-20.15	peak
6	913.6700	33.47	-0.13	33.34	46.00	-12.66	peak

Remark:.

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

80.0 dBuV/m





(1000MHz-25GHz) Spurious emission Requirements

Above 1000 MHz										
Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11n20/2412 MHz)										
3264.84	61.75	44.70	6.70	28.20	-9.80	51.95	74.00	-22.05	PK	Vertical
3264.84	50.35	44.70	6.70	28.20	-9.80	40.55	54.00	-13.45	AV	Vertical
3264.58	61.86	44.70	6.70	28.20	-9.80	52.06	74.00	-21.94	PK	Horizontal
3264.58	50.27	44.70	6.70	28.20	-9.80	40.47	54.00	-13.53	AV	Horizontal
4824.56	58.56	44.20	9.04	31.60	-3.56	55.00	74.00	-19.00	PK	Vertical
4824.56	49.93	44.20	9.04	31.60	-3.56	46.37	54.00	-7.63	AV	Vertical
4824.45	59.47	44.20	9.04	31.60	-3.56	55.91	74.00	-18.09	PK	Horizontal
4824.45	49.83	44.20	9.04	31.60	-3.56	46.27	54.00	-7.73	AV	Horizontal
5359.80	49.23	44.20	9.86	32.00	-2.34	46.89	74.00	-27.11	PK	Vertical
5359.80	40.31	44.20	9.86	32.00	-2.34	37.96	54.00	-16.04	AV	Vertical
5359.80	48.12	44.20	9.86	32.00	-2.34	45.77	74.00	-28.23	PK	Horizontal
5359.80	39.40	44.20	9.86	32.00	-2.34	37.05	54.00	-16.95	AV	Horizontal
7235.74	54.78	43.50	11.40	35.50	3.40	58.18	74.00	-15.82	PK	Vertical
7235.74	43.98	43.50	11.40	35.50	3.40	47.38	54.00	-6.62	AV	Vertical
7235.94	54.64	43.50	11.40	35.50	3.40	58.04	74.00	-15.96	PK	Horizontal
7235.94	43.93	43.50	11.40	35.50	3.40	47.33	54.00	-6.67	AV	Horizontal
Middle Channel (802.11n20/2437 MHz)										
3264.83	61.39	44.70	6.70	28.20	-9.80	51.59	74.00	-22.41	PK	Vertical
3264.83	50.44	44.70	6.70	28.20	-9.80	40.64	54.00	-13.36	AV	Vertical
3264.72	60.82	44.70	6.70	28.20	-9.80	51.02	74.00	-22.98	PK	Horizontal
3264.72	50.70	44.70	6.70	28.20	-9.80	40.90	54.00	-13.10	AV	Horizontal
4874.52	58.35	44.20	9.04	31.60	-3.56	54.79	74.00	-19.21	PK	Vertical
4874.52	49.65	44.20	9.04	31.60	-3.56	46.09	54.00	-7.91	AV	Vertical
4874.45	59.56	44.20	9.04	31.60	-3.56	56.00	74.00	-18.00	PK	Horizontal
4874.45	49.18	44.20	9.04	31.60	-3.56	45.62	54.00	-8.38	AV	Horizontal
5359.82	49.38	44.20	9.86	32.00	-2.34	47.04	74.00	-26.96	PK	Vertical
5359.82	40.31	44.20	9.86	32.00	-2.34	37.97	54.00	-16.03	AV	Vertical
5359.74	47.15	44.20	9.86	32.00	-2.34	44.81	74.00	-29.19	PK	Horizontal
5359.74	38.11	44.20	9.86	32.00	-2.34	35.76	54.00	-18.24	AV	Horizontal
7310.97	54.44	43.50	11.40	35.50	3.40	57.84	74.00	-16.16	PK	Vertical
7310.97	44.75	43.50	11.40	35.50	3.40	48.15	54.00	-5.85	AV	Vertical
7310.82	54.27	43.50	11.40	35.50	3.40	57.67	74.00	-16.33	PK	Horizontal
7310.82	44.32	43.50	11.40	35.50	3.40	47.72	54.00	-6.28	AV	Horizontal
High Channel (802.11n20/2462 MHz)										
3264.84	61.07	44.70	6.70	28.20	-9.80	51.27	74.00	-22.73	PK	Vertical
3264.84	51.16	44.70	6.70	28.20	-9.80	41.36	54.00	-12.64	AV	Vertical
3264.76	60.84	44.70	6.70	28.20	-9.80	51.04	74.00	-22.96	PK	Horizontal
3264.76	51.09	44.70	6.70	28.20	-9.80	41.29	54.00	-12.71	AV	Horizontal
4924.43	58.73	44.20	9.04	31.60	-3.56	55.17	74.00	-18.83	PK	Vertical
4924.43	50.52	44.20	9.04	31.60	-3.56	46.96	54.00	-7.04	AV	Vertical
4924.35	58.46	44.20	9.04	31.60	-3.56	54.90	74.00	-19.10	PK	Horizontal
4924.35	49.71	44.20	9.04	31.60	-3.56	46.15	54.00	-7.85	AV	Horizontal
5359.68	49.22	44.20	9.86	32.00	-2.34	46.88	74.00	-27.12	PK	Vertical
5359.68	39.88	44.20	9.86	32.00	-2.34	37.54	54.00	-16.46	AV	Vertical
5359.62	47.89	44.20	9.86	32.00	-2.34	45.55	74.00	-28.45	PK	Horizontal
5359.62	38.46	44.20	9.86	32.00	-2.34	36.11	54.00	-17.89	AV	Horizontal
7385.84	54.93	43.50	11.40	35.50	3.40	58.33	74.00	-15.67	PK	Vertical
7385.84	44.50	43.50	11.40	35.50	3.40	47.90	54.00	-6.10	AV	Vertical
7385.71	54.25	43.50	11.40	35.50	3.40	57.65	74.00	-16.35	PK	Horizontal
7385.71	44.81	43.50	11.40	35.50	3.40	48.21	54.00	-5.79	AV	Horizontal

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20) the worst case is 802.11n20.
Emission Level = Reading + Factor
Margin = Emission Level-Limit
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

4.2 EUT ANTENNA

The EUT antenna is SMD antenna. It complies with the standard requirement.



APPENDIX 1-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※