



Shenzhen CTA Testing Technology Co., Ltd.
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

FCC PART 15 SUBPART CTEST REPORT

FCC PART 15.247

Report Reference No.....: CTA24072303304

FCC ID.....: 2AG7C-6062T

Compiled by

(position+printed name+signature)...: File administrators Jinghua Xiao

Supervised by

(position+printed name+signature)...: Test Engineer Lushan Kong

Approved by

(position+printed name+signature)...: Manager Eric Wang

Date of issue.....: Jul.25, 2024

Representative Laboratory Name.: Shenzhen CTA Testing Technology Co., Ltd.

Address.....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: Hangzhou Meari Technology Co., Ltd.

Address.....: Building 4, Huiding Intelligent Innovation Center, No. 825, Ruquan Road, Changhe Street, Binjiang District, Hangzhou, Zhejiang, China

Test specification.....:

Standard.....: FCC Part 15.247

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Test item description.....: Baby Monitor

Trade Mark.....: N/A

Manufacturer.....: Hangzhou Meari Technology Co., Ltd.

Model/Type reference.....: Alnanny-Cam

Listed Models: Alnanny, Alnanny 2-Cam Kit, Alnanny A4, Alnanny A4 Kit, Alnanny A4-2Cam Kit, Alnanny A5Pro, Alnanny A5Pro Kit, Alnanny A5Pro-2cam Kit, Baby 3S, Baby 3T, Baby 3Q, Baby 3F, Baby 3T, Baby 3SM, Baby 3TM, Baby 3QM, Baby 3FM, Alnanny D3, Alnanny D3 kit, Alnanny D3-2Cam Kit, Baby 16T, Baby 16TM

Operation Frequency.....: From 2412MHz to 2462MHz

Hardware Version: BABY3T-T5MB-GC5-REV2_2

Software Version.....: N/A

Rating.....: DC 5.0V/1.0A by Adapter

Result.....: PASS

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

TEST REPORT

Test Report No. :	CTA24072303304	Jul.25, 2024
		Date of issue

Equipment under Test : Baby Monitor

Model /Type : Alnanny-Cam

Listed model : Alnanny,Alnanny 2-Cam Kit,Alnanny A4,Alnanny A4 Kit,Alnanny A4-2Cam Kit,Alnanny A5Pro,Alnanny A5Pro Kit,Alnanny A5Pro-2cam Kit,Baby 3S,Baby 3T,Baby 3Q,Baby 3F,Baby 3T,Baby 3SM,Baby 3TM,Baby 3QM,Baby 3FM,Alnanny D3,Alnanny D3 kit,Alnanny D3-2Cam Kit,Baby 16T,Baby 16TM

Applicant : **Hangzhou Meari Technology Co., Ltd.**

Address : Building 4,Huiding Intelligent Innovation Center,No. 825,Ruquan Road,Changhe Street,Binjiang District,Hangzhou,Zhejiang,China

Manufacturer : **Hangzhou Meari Technology Co., Ltd.**

Address : 4F of Building 1 and 2-4F of Building 2, No. 91 Chutian Road, Xixing Street, Binjiang District, Hangzhou, Zhejiang, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 DTS Meas Guidance v05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Jun.10, 2024
Testing commenced on	:	Jun.10, 2024
Testing concluded on	:	Jul.23, 2024

2.2. Product Description

Product Name	Baby Monitor
Trade Mark	N/A
Model/Type reference	Alnanny-Cam
List Models	Alnanny,Alnanny 2-Cam Kit,Alnanny A4,Alnanny A4 Kit,Alnanny A4-2Cam Kit,Alnanny A5Pro,Alnanny A5Pro Kit,Alnanny A5Pro-2cam Kit,Baby 3S,Baby 3T,Baby 3Q,Baby 3F,Baby 3T,Baby 3SM,Baby 3TM,Baby 3QM,Baby 3FM,Alnanny D3,Alnanny D3 kit,Alnanny D3-2Cam Kit,Baby 16T,Baby 16TM
Model Declaration	PCB board, structure and internal of these model(s) are the same, Only the model name different , So no additional models were tested.
Power supply:	DC 5.0V/1.0A by Adapter
Sample ID	CTA240723033-1#& CTA240723033-2#
Bluetooth	
Operation frequency	2402-2480MHz
Channel Number	40 channels for Bluetooth (DTS)
Channel Spacing	2MHz for Bluetooth (DTS)
Modulation Type	GFSK for Bluetooth (DTS)
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM; 802.11ax: OFDMA
Antenna Description	FPC antenna, 3.37 dBi(Max.)for 2.4G Band
SRD	
Frequency Range	905-925MHz
Channel Number	11Channel
Channel Spacing	2MHz
Modulation Type	OFDM
Antenna Description	FPC antenna, -0.83 dBi(Max.)for 2.4G Band

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 5.0V

2.4. Short description of the Equipment under Test (EUT)

This is a Baby Monitor .

For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

The application provider specific test software to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n/ax: 11 channels are provided to the EUT.

Antenna	Chain 0		Chain 1		Simultaneously
Bandwidth Mode	20MHz	40MHz	20MHz	40MHz	/
IEEE 802.11b	☒	☐	☐	☐	☐
IEEE 802.11g	☒	☐	☐	☐	☐
IEEE 802.11n	☒	☐	☐	☐	☐
IEEE 802.11ax	☒	☐	☐	☐	☐

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

The EUT has been tested under operating condition.

AC main conducted emission pre-test voltage at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

AC main conducted emission pre-test at charge from PC modes, recorded worst case;

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be IEEE 802.11g mode (MCH).

AX mode tested all RU, only worst case mode (Full RU) recorded in report.

2.6. Block Diagram of Test Setup



2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AG7C-6062T** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (IPOP order) provided by application.

2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPA-46B050100UU	--	IC
Zhuzhou Dachuan Electronic Technology Co.,Ltd.	Adapter	DCT07W050100US-C1	--	IC

2.10. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
SD Card Port	1	N/A

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China.

3.2. Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

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

3.5. Test Description

Applied Standard: RSS-247 Issue 3 / RSS-Gen Issue 5				
FCC Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	CTA240723033-1#	Compliant	Appendix C
§15.247(b)	Maximum Conducted Output Power	CTA240723033-1#	Compliant	Appendix C
§15.247(e)	Power Spectral Density	CTA240723033-1#	Compliant	Appendix C
§15.247(a)(2)	6dB Bandwidth	CTA240723033-1#	Compliant	Appendix C
§2.1047	99% Occupied Bandwidth	CTA240723033-1#	Compliant	Appendix C
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	CTA240723033-1#	Compliant	Appendix C
§15.209, §15.247(d)	Radiated Spurious Emissions	CTA240723033-1# CTA240723033-2#	Compliant	Note 1
§15.205	Emissions at Restricted Band	CTA240723033-1#	Compliant	Appendix C
§15.207(a)	AC Conducted Emissions	CTA240723033-2#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	CTA240723033-1#	Compliant	Note 1
§15.247(i) §2.1091	RF Exposure	/	Compliant	Note 2

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (MPE Report).
5. We tested all test mode and recorded worst case in report

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9kHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5Mbps	3/6/09
	11ax(20MHz)/OFDMA	8.6Mbps	1/6/11
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9
	11ax(20MHz)/OFDMA	8.6Mbps	1/11

3.6. Equipments Used during the Test

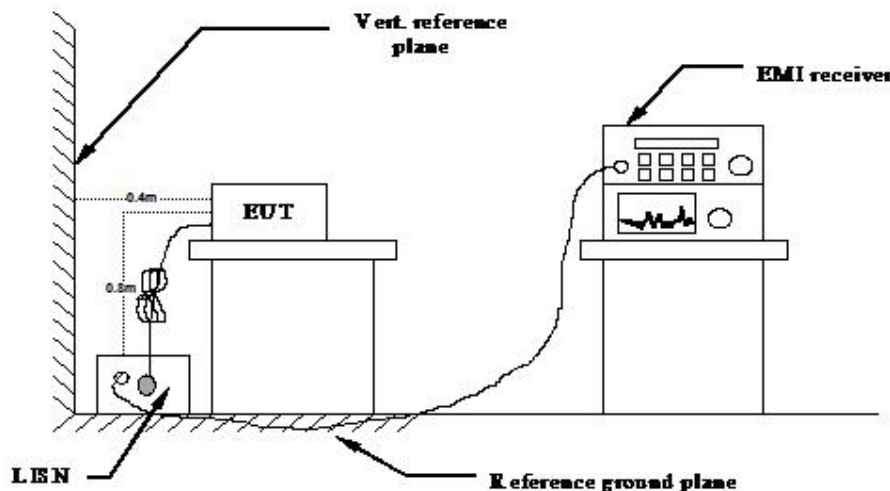
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2023/07/31	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/07/31	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/07/31	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/07/31	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/07/31	2024/08/01
Spectrum Analyzer	R&S	FSP	CTA-337	2023/07/31	2024/08/01
Vector Signa generator	Agilent	N5182A	CTA-305	2023/07/31	2024/08/01
Analog Signal Generator	R&S	SML03	CTA-304	2023/07/31	2024/08/01
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2023/07/31	2024/08/01
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/07/31	2024/08/01
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/18
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/14
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/18
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2024/08/05	2024/08/06
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/07/31	2024/08/01
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/07/31	2024/08/01
Directional coupler	NARDA	4226-10	CTA-303	2023/07/31	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/07/31	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/07/31	2024/08/01
Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/07/31	2024/08/01
Power Sensor	Agilent	U2021XA	CTA-405	2023/07/31	2024/08/01
Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/07/31	2024/08/01
EMI Test Software	Tonscend	JS32-CE	5.0.0.2	/	/
EMI Test Software	Tonscend	JS32-RE	5.0.0.1	/	/
RF Test Software	Tonscend	JS1120-1	3.1.65	/	/
RF Test Software	Tonscend	JS1120-3	3.1.46	/	/

Note: The Cal.Interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020.
- 4 The EUT received DC 5.0V power, the adapter received AC120V/60Hz or AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to §15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

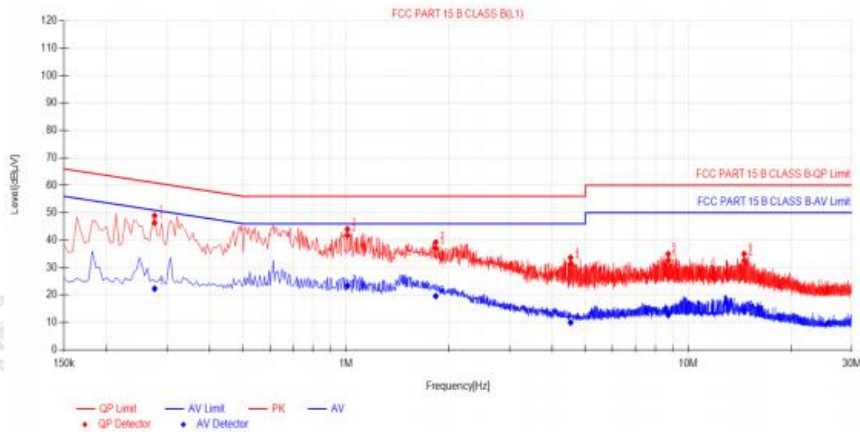
TEST RESULTS

Remark: We measured Conducted Emission at 802.11b/802.11g/802.11n HT20/802.11ax HE20 mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	24℃	Humidity	55%
Test Engineer	Lushan Kong	Configurations	IEEE 802.11g (MCH)

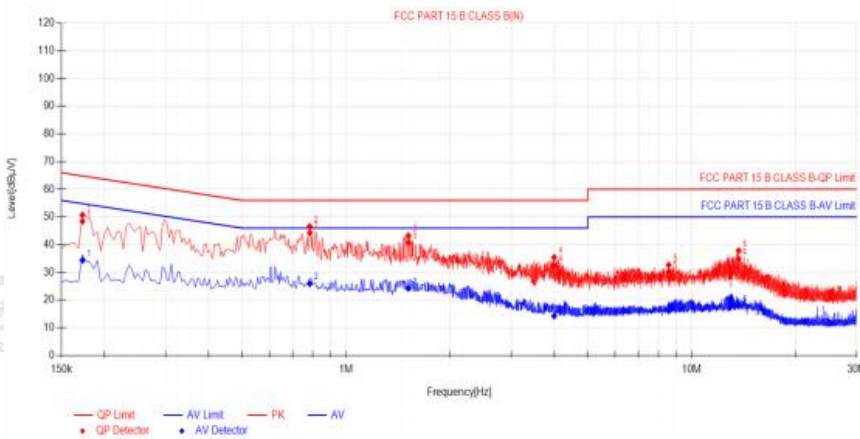
Adapter: TPA-46B050100UU

Power supply:	AC 120V/60Hz	Polarization	L
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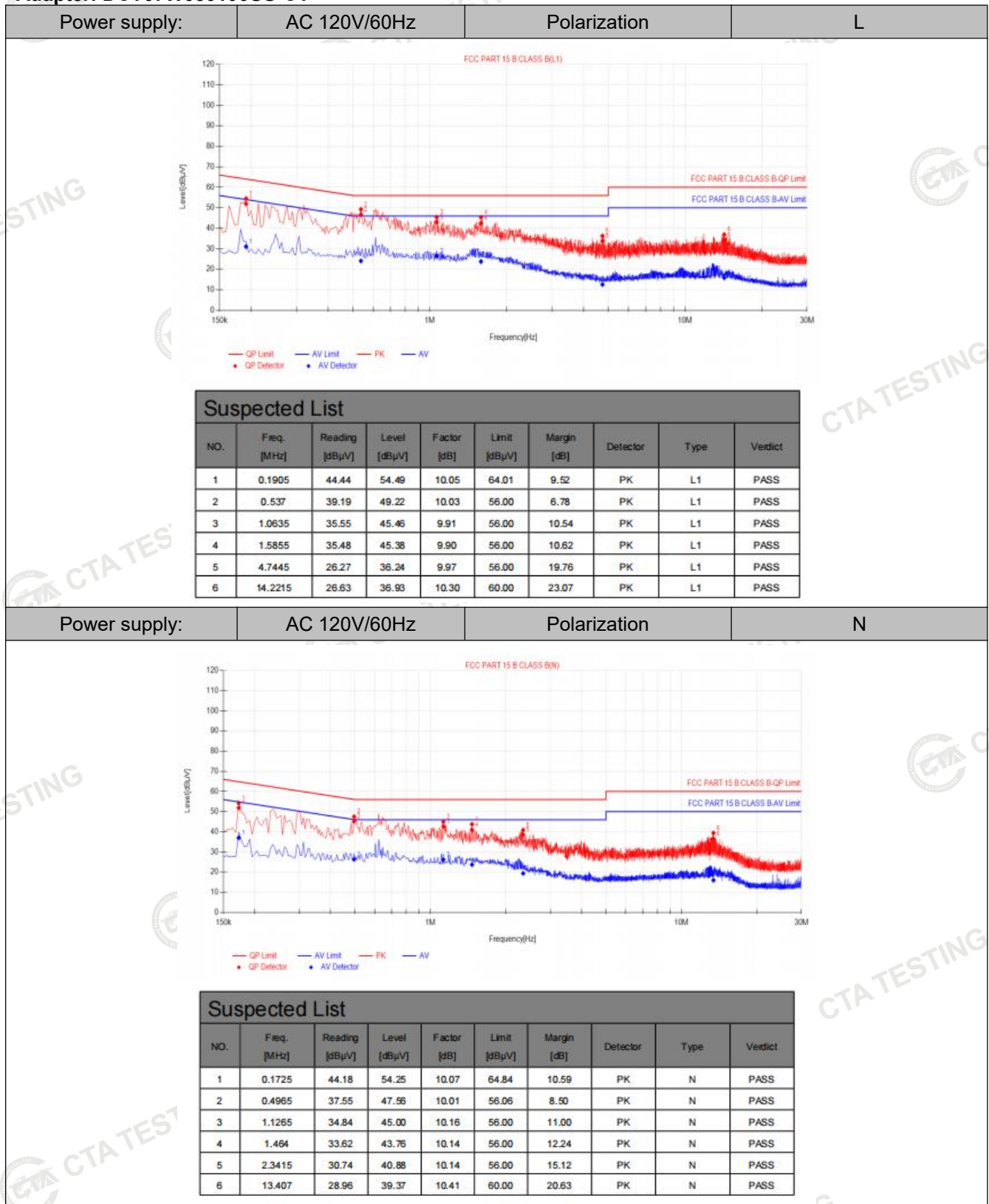
NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Type	Verdict
1	0.276	40.01	48.95	9.94	60.94	11.99	PK	L1	PASS
2	1.0095	35.10	44.01	9.91	56.00	11.99	PK	L1	PASS
3	1.8285	30.32	39.24	9.92	56.00	16.76	PK	L1	PASS
4	4.5285	24.64	33.60	9.96	56.00	22.40	PK	L1	PASS
5	8.7315	25.68	34.95	10.27	60.00	25.05	PK	L1	PASS
6	14.5545	25.67	34.97	10.30	60.00	25.03	PK	L1	PASS

Power supply:	AC 120V/60Hz	Polarization	N
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NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Detector	Type	Verdict
1	0.1725	40.68	50.75	10.07	64.84	14.09	PK	N	PASS
2	0.7845	36.46	46.59	10.13	56.00	9.41	PK	N	PASS
3	1.5135	33.15	43.28	10.13	56.00	12.72	PK	N	PASS
4	3.9975	25.36	35.48	10.12	56.00	20.52	PK	N	PASS
5	8.5785	22.28	32.69	10.41	60.00	27.31	PK	N	PASS
6	13.668	27.42	37.83	10.41	60.00	22.17	PK	N	PASS

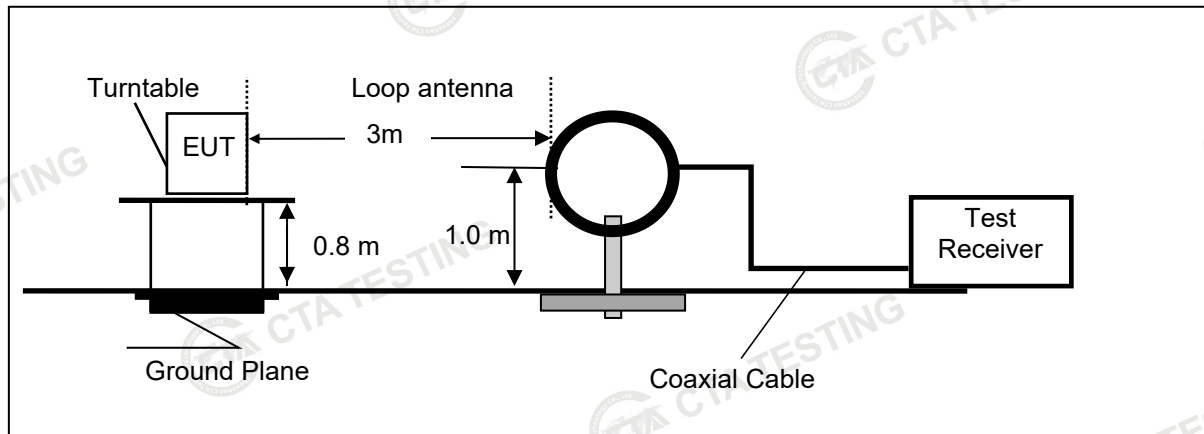
Adapter: DCT07W050100US-C1



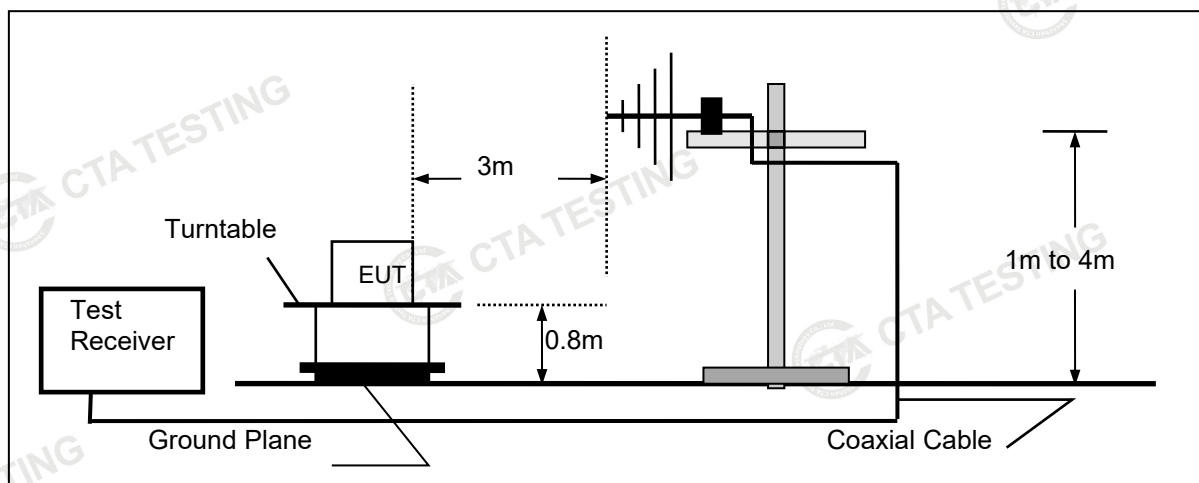
4.2. Radiated Emission

TEST CONFIGURATION

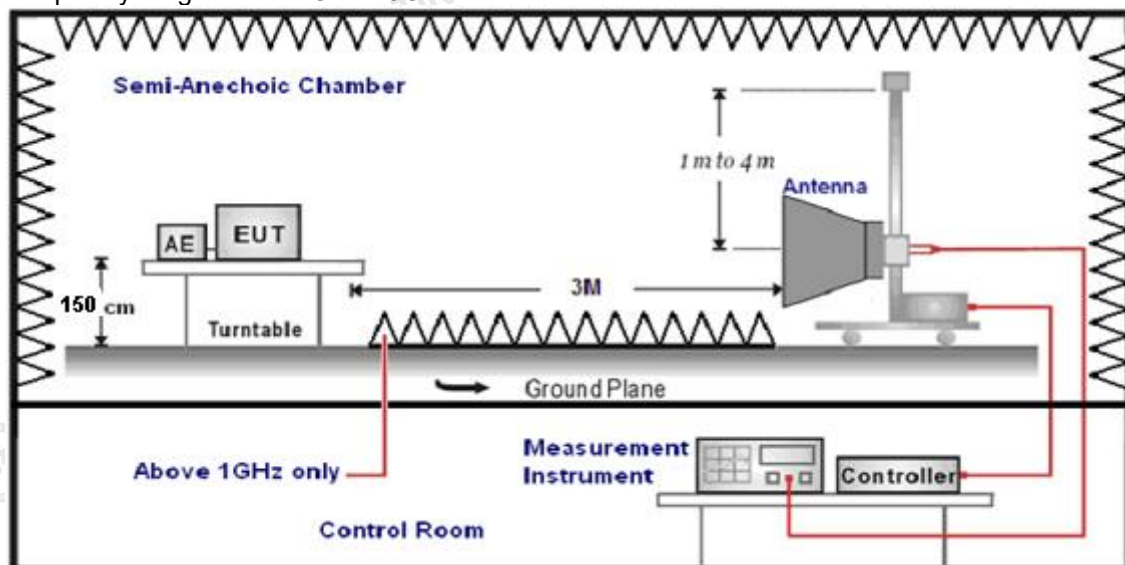
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 30MHz – 1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 30MHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

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	

$$Transd = AF + CL - AG$$

RADIATION LIMIT

For intentional device, according to §15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark: We measured Radiated Emission at 802.11b/802.11g/802.11n HT20/802.11ax HE20 mode from 9 KHz to 25GHz in AC120V and the worst case was recorded.

Temperature	24℃	Humidity	55%
Test Engineer	Lushan Kong	Configurations	IEEE 802.11g (MCH)

For 9 KHz~30MHz

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

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

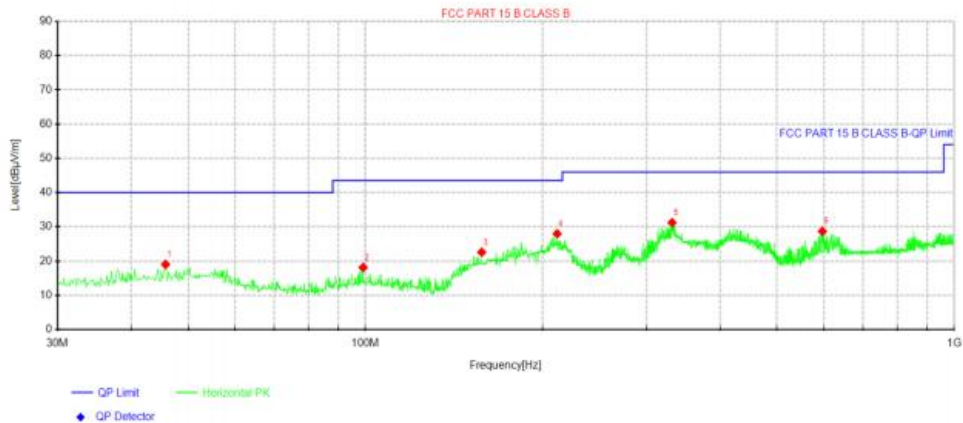
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

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

For 30MHz-1GHz

Adapter: TPA-46B050100UU

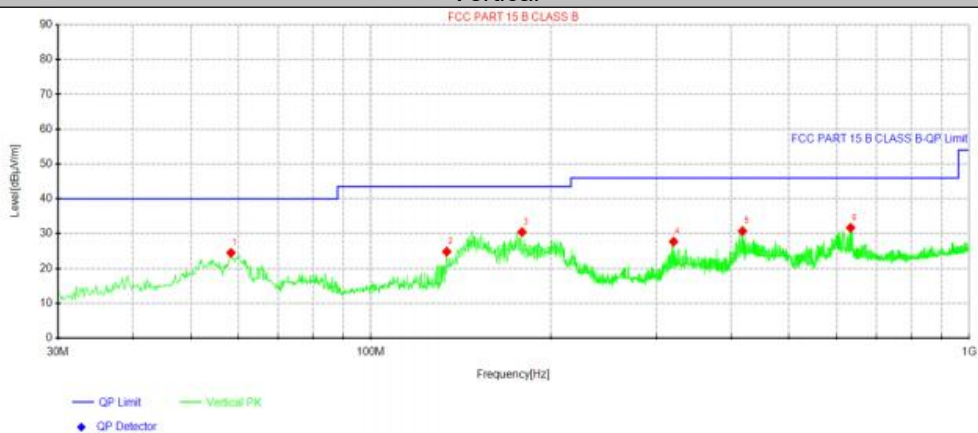
Horizontal



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.7625	30.41	19.02	-11.39	40.00	20.98	100	183	Horizontal
2	99.1125	31.21	18.11	-13.10	43.50	25.39	100	360	Horizontal
3	157.555	38.29	22.59	-15.70	43.50	20.91	100	3	Horizontal
4	211.632	40.68	27.98	-12.70	43.50	15.52	100	90	Horizontal
5	331.791	42.05	31.22	-10.83	46.00	14.78	100	3	Horizontal
6	596.965	34.75	28.71	-6.04	46.00	17.29	100	193	Horizontal

Vertical

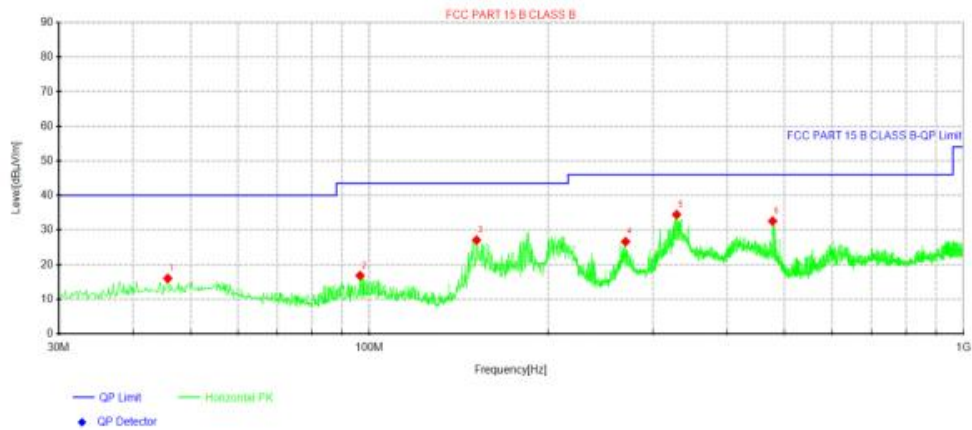


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.3725	36.88	24.51	-12.37	40.00	15.49	100	189	Vertical
2	133.911	41.01	24.83	-16.18	43.50	18.67	100	339	Vertical
3	178.895	45.06	30.45	-14.61	43.50	13.05	100	214	Vertical
4	320.636	38.67	27.72	-10.95	46.00	18.28	100	97	Vertical
5	418	40.73	30.74	-9.99	46.00	15.26	100	109	Vertical
6	633.582	37.33	31.69	-5.64	46.00	14.31	100	214	Vertical

Adapter: DCT07W050100US-C1

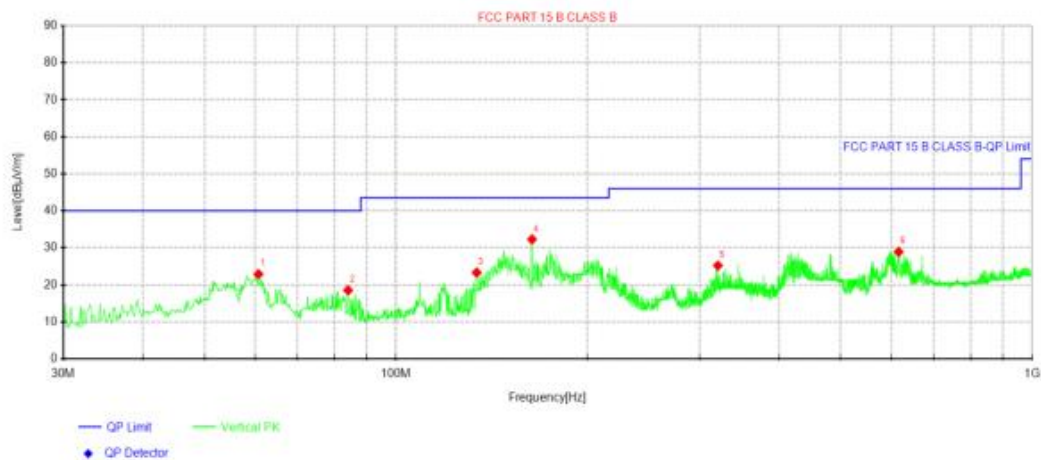
Horizontal



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.7625	27.41	16.02	-11.39	40.00	23.98	100	183	Horizontal
2	96.445	30.45	16.85	-13.60	43.50	26.65	100	344	Horizontal
3	151.492	42.57	27.08	-15.49	43.50	16.42	100	3	Horizontal
4	269.953	38.28	26.66	-11.62	46.00	19.34	100	3	Horizontal
5	329.002	45.33	34.47	-10.86	46.00	11.53	100	3	Horizontal
6	477.291	41.95	32.61	-9.34	46.00	13.39	100	193	Horizontal

Vertical



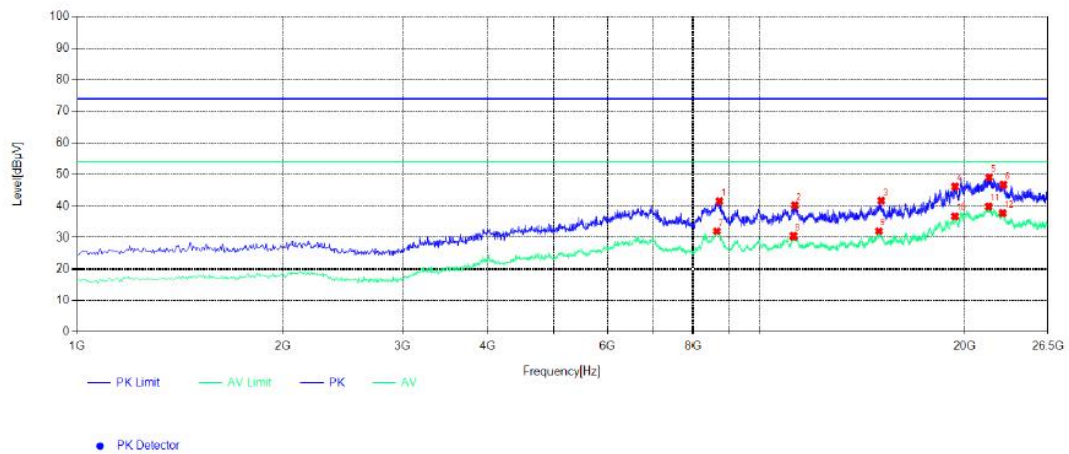
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	60.7975	35.85	22.90	-12.95	40.00	17.10	100	0	Vertical
2	84.0775	34.57	18.55	-16.02	40.00	21.45	100	214	Vertical
3	133.911	39.51	23.33	-16.18	43.50	20.17	100	339	Vertical
4	163.617	47.81	32.30	-15.51	43.50	7.70	100	294	Vertical
5	320.636	36.17	25.22	-10.95	46.00	20.78	100	97	Vertical
6	616.85	34.64	28.94	-5.70	46.00	17.06	100	178	Vertical

For Greater than 1GHz

Horizontal (802.11b-2412MHz)

Test Graph



Suspected List

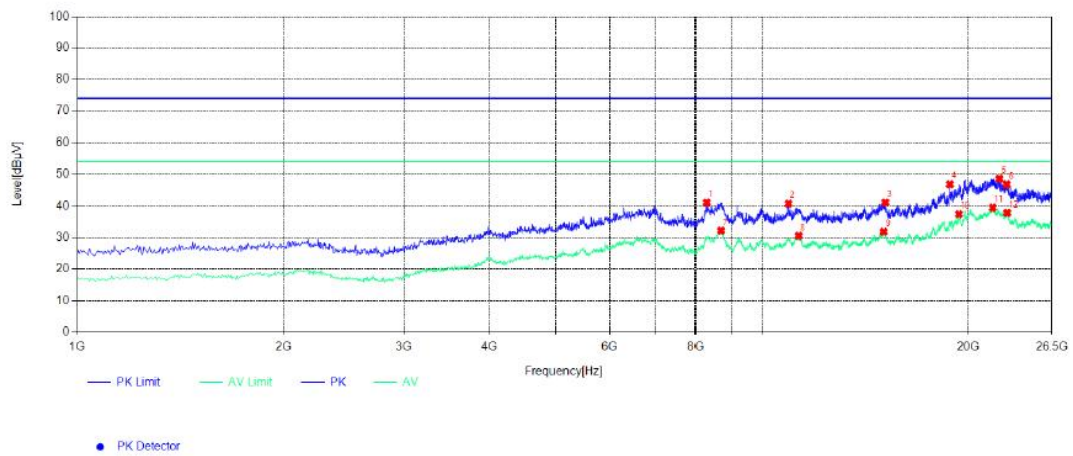
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8725.94	41.22	-0.25	40.97	74	33.03	150	146	PK	Horizontal	PASS
2	11263.09	38.13	0.97	39.09	74	34.91	150	104	PK	Horizontal	PASS
3	15011.99	38.52	1.42	39.94	74	34.06	150	101	PK	Horizontal	PASS
4	19347.92	44.34	1.69	46.02	74	27.98	150	106	PK	Horizontal	PASS
5	21826.94	45.72	2.25	47.97	74	26.03	150	265	PK	Horizontal	PASS
6	22786.02	44.01	3.06	47.07	74	26.93	150	33	PK	Horizontal	PASS
7	8650.91	31.08	-0.14	30.94	54	23.06	150	174	AV	Horizontal	PASS
8	11282.94	29.75	0.80	30.54	54	23.46	150	254	AV	Horizontal	PASS
9	15078.06	29.26	1.24	30.50	54	23.50	150	217	AV	Horizontal	PASS
10	19342.92	34.24	1.76	36.00	54	18.00	150	220	AV	Horizontal	PASS
11	21709.99	37.64	2.36	40.00	54	14.00	150	84	AV	Horizontal	PASS
12	22745.05	35.39	2.68	38.07	54	15.93	150	256	AV	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical(802.11b-2412MHz)

Test Graph



Suspected List

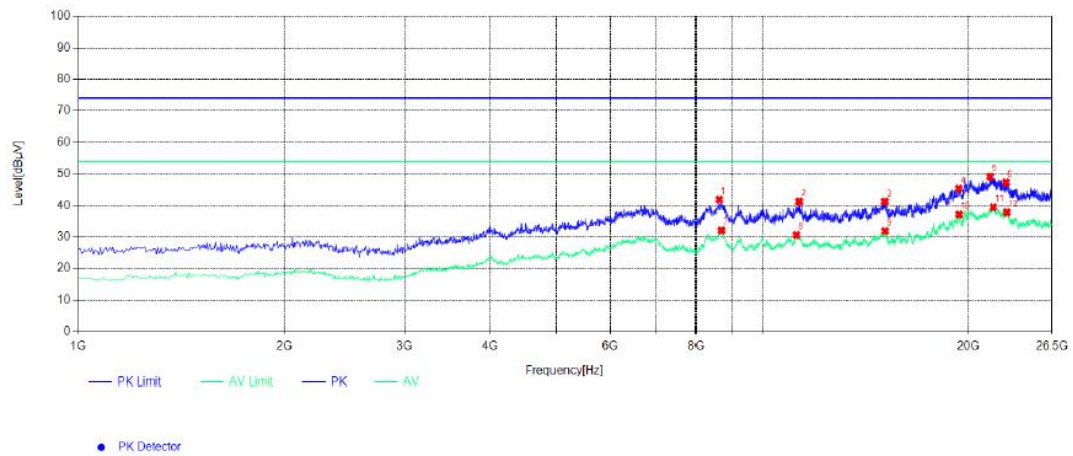
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8289.02	41.10	-0.10	41.00	74	33.00	150	135	PK	Vertical	PASS
2	11262.92	38.15	0.76	38.91	74	35.09	150	126	PK	Vertical	PASS
3	15008.84	38.53	1.41	39.94	74	34.06	150	85	PK	Vertical	PASS
4	19345.44	44.16	1.81	45.97	74	28.03	150	112	PK	Vertical	PASS
5	21823.07	45.77	2.29	48.06	74	25.94	150	280	PK	Vertical	PASS
6	22785.77	43.93	3.01	46.94	74	27.06	150	49	PK	Vertical	PASS
7	8724.92	31.33	-0.36	30.97	54	23.03	150	150	AV	Vertical	PASS
8	11281.80	29.78	0.69	30.46	54	23.54	150	249	AV	Vertical	PASS
9	15077.30	28.98	1.53	30.51	54	23.49	150	242	AV	Vertical	PASS
10	19343.50	34.15	1.90	36.05	54	17.95	150	229	AV	Vertical	PASS
11	21707.75	37.82	2.17	39.99	54	14.01	150	87	AV	Vertical	PASS
12	22745.59	35.30	2.67	37.96	54	16.04	150	267	AV	Vertical	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Horizontal (802.11b-2437MHz)

Test Graph



Suspected List

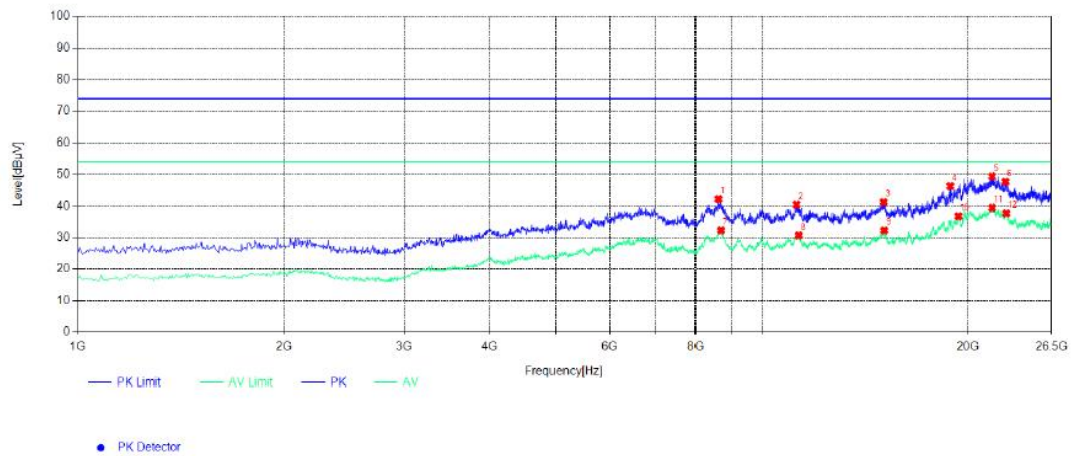
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8706.92	40.88	0.05	40.92	74	33.08	150	175	PK	Horizontal	PASS
2	11304.02	38.20	0.71	38.91	74	35.09	150	111	PK	Horizontal	PASS
3	15009.81	38.70	1.22	39.93	74	34.07	150	109	PK	Horizontal	PASS
4	19320.79	43.98	1.97	45.95	74	28.05	150	96	PK	Horizontal	PASS
5	21744.92	45.69	2.23	47.92	74	26.08	150	251	PK	Horizontal	PASS
6	22745.85	44.15	2.93	47.08	74	26.92	150	37	PK	Horizontal	PASS
7	8696.86	31.12	-0.16	30.96	54	23.04	150	196	AV	Horizontal	PASS
8	11198.43	29.74	0.75	30.48	54	23.52	150	264	AV	Horizontal	PASS
9	15092.36	28.87	1.53	30.40	54	23.60	150	226	AV	Horizontal	PASS
10	19346.01	34.22	1.85	36.07	54	17.93	150	214	AV	Horizontal	PASS
11	21735.13	37.62	2.41	40.03	54	13.97	150	120	AV	Horizontal	PASS
12	22768.55	35.41	2.64	38.05	54	15.95	150	259	AV	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical(802.11b-2437MHz)

Test Graph



Suspected List

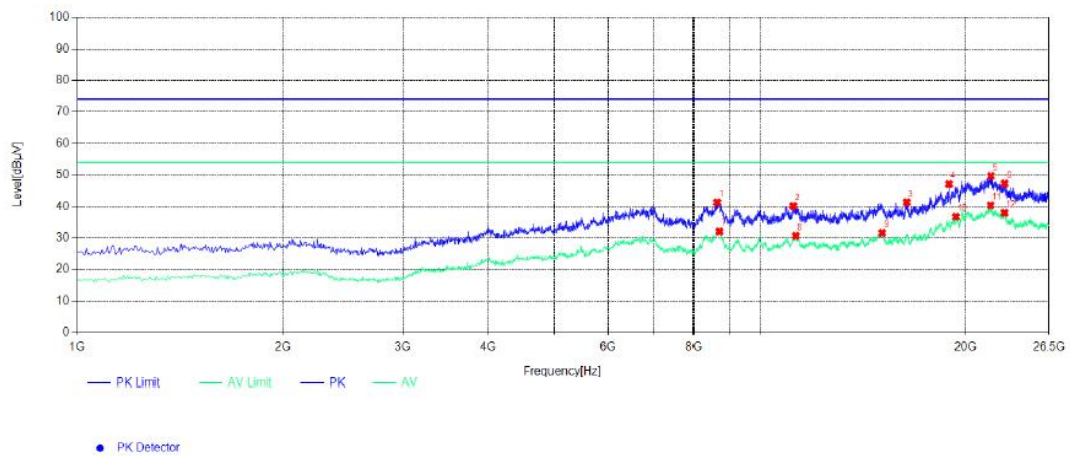
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8626.02	40.77	0.10	40.87	74	33.13	150	145	PK	Vertical	PASS
2	11236.91	38.02	1.00	39.02	74	34.98	150	107	PK	Vertical	PASS
3	14957.35	38.50	1.46	39.97	74	34.03	150	88	PK	Vertical	PASS
4	19346.63	44.25	1.66	45.91	74	28.09	150	107	PK	Vertical	PASS
5	21719.36	45.53	2.53	48.06	74	25.94	150	258	PK	Vertical	PASS
6	22766.96	44.32	2.69	47.01	74	26.99	150	56	PK	Vertical	PASS
7	8695.96	31.08	0.00	31.09	54	22.91	150	153	AV	Vertical	PASS
8	11301.34	29.35	1.09	30.44	54	23.56	150	251	AV	Vertical	PASS
9	14961.79	29.09	1.41	30.50	54	23.50	150	228	AV	Vertical	PASS
10	19354.02	34.01	1.95	35.96	54	18.04	150	228	AV	Vertical	PASS
11	21784.70	37.77	2.17	39.93	54	14.07	150	82	AV	Vertical	PASS
12	22838.71	35.15	2.89	38.04	54	15.96	150	275	AV	Vertical	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Horizontal (802.11b-2462MHz)

Test Graph



Suspected List

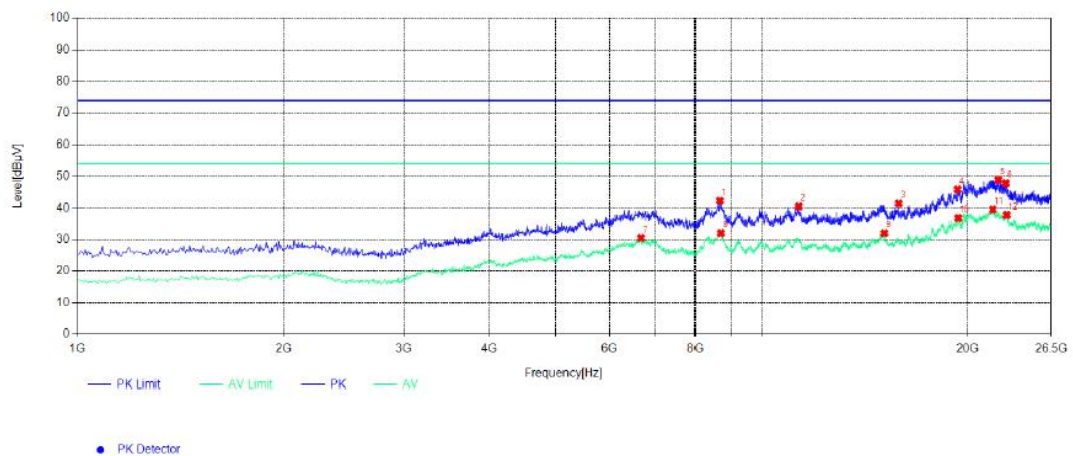
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8640.92	41.11	-0.20	40.91	74	33.09	150	154	PK	Horizontal	PASS
2	11263.01	37.97	0.99	38.96	74	35.04	150	121	PK	Horizontal	PASS
3	16232.90	38.62	1.32	39.94	74	34.06	150	82	PK	Horizontal	PASS
4	19352.22	44.15	1.93	46.08	74	27.92	150	100	PK	Horizontal	PASS
5	19891.42	45.68	2.26	47.93	74	26.07	150	251	PK	Horizontal	PASS
6	22830.73	44.18	2.77	46.95	74	27.05	150	24	PK	Horizontal	PASS
7	8627.76	31.07	-0.06	31.01	54	22.99	150	168	AV	Horizontal	PASS
8	11291.57	29.66	0.76	30.43	54	23.57	150	267	AV	Horizontal	PASS
9	14974.76	29.30	1.27	30.56	54	23.44	150	240	AV	Horizontal	PASS
10	19352.53	34.10	1.85	35.94	54	18.06	150	219	AV	Horizontal	PASS
11	21745.87	37.84	2.19	40.03	54	13.97	150	112	AV	Horizontal	PASS
12	22732.11	35.09	2.83	37.92	54	16.08	150	247	AV	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Vertical(802.11b-2462MHz)

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	8671.04	41.22	-0.21	41.01	74	32.99	150	134	PK	Vertical	PASS
2	11319.02	38.17	0.77	38.94	74	35.06	150	130	PK	Vertical	PASS
3	15151.48	38.44	1.54	39.98	74	34.02	150	111	PK	Vertical	PASS
4	19354.84	44.07	1.97	46.04	74	27.96	150	110	PK	Vertical	PASS
5	21915.27	45.61	2.38	47.99	74	26.01	150	292	PK	Vertical	PASS
6	22804.64	44.34	2.66	47.00	74	27.00	150	42	PK	Vertical	PASS
7	6671.03	31.05	0.03	31.08	54	22.92	150	178	AV	Vertical	PASS
8	8699.75	29.70	0.84	30.54	54	23.46	150	270	AV	Vertical	PASS
9	15100.88	29.02	1.53	30.55	54	23.45	150	210	AV	Vertical	PASS
10	19344.50	34.12	1.93	36.05	54	17.95	150	210	AV	Vertical	PASS
11	21795.78	37.48	2.48	39.96	54	14.04	150	95	AV	Vertical	PASS
12	22762.24	35.25	2.74	37.99	54	16.01	150	283	AV	Vertical	PASS

Note: 1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. The other emission levels were very low against the limit.
5. Measured used 2.4GHz band filter to avoid power amplifier overload.

NOTE: All the modes have been tested and recorded worst mode in the report(Adapter: TPA-46B050100UU).

4.3. On Time and Duty Cycle

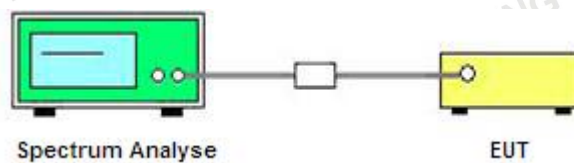
LIMIT

None; for reporting purpose only.

TEST PROCEDURE

1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=5ms;
3. Detector = peak;
4. Trace mode = Single hold.

TEST CONFIGURATION



TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.1.

4.4. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power, 9.1.2. and Average conducted output power, 9.2.3.1.

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.

The maximum Average conducted output power may be measured using a wide band RF power meter with a Thermocouple detector or equivalent. 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.

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.4.

4.5. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 Method PKPSD (peak PSD) This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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 $\geq 3 \text{ RBW}$.
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.

LIMIT

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.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.5.

4.6. 99% and 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.2.

Please refer to Appendix C.3.

4.7. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 §15.205(c)).

TEST PROCEDURE

According to KDB 558074 D01 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
12. Compare the resultant electric field strength level to the applicable regulatory limit.
13. Perform radiated spurious emission test dures until all measured frequencies were complete.

LIMIT

Below -20dB of the highest emission level in operating band.

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).

TEST RESULTS

4.7.1 For Conducted at Restricted Band Measurement

For reporting purpose only.

Please refer to Appendix C.8.

4.7.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix C.6.

4.7.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix C.7.

4.8. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Information

The antenna is FPC Antenna, through the buckle stretched out, The directional gains of antenna used for transmitting is 3.37dBi.

Reference to the Test Report: **CTA24072303302.**

5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: CTA24072303302.

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: CTA24072303302.

.....End of Report.....