

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 C TEST REPORT

FCC PART 15.247

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Date of issue Oct. 17, 2023

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

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name...... Shenzhen Intelligence.Ally Technology Co.,Ltd.

3001-3004, Building 6, Shenzhen International Innovation Valley,

China

Test specification:

Standard..... FCC Part 15.247

TRF Originator...... Shenzhen CTA Testing Technology Co., Ltd.

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Test item description ALLYBOTC2

Trade Mark N/A

Manufacturer Shenzhen Intelligence.Ally Technology Co.,Ltd.

Model/Type reference C44P2DV2

Modulation Type...... CCK/DSSS/OFDM

Operation Frequency..... From 2412 - 2462MHz

Rating DC 25.6V From battery and AC100V-240V 50/60Hz

Result PASS

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TEST REPORT

Equipment under Test ALLYBOTC2

Model /Type C44P2DV2

Listed Models C44P2DV2-1, CC201, C44P2DV2-2, CC201-1, co-botic45

Applicant Shenzhen Intelligence. Ally Technology Co., Ltd.

3001-3004, Building 6, Shenzhen International Innovation Valley, Dashi Address

1st Road, Xi li Street, Nanshan District, Shenzhen, Guangdong, China

Manufacturer Shenzhen Intelligence. Ally Technology Co., Ltd.

Address		: 3001-3004, Building 6, Shenzhen International Innovation Valley, Dashi 1st Road, Xi li Street, Nanshan District, Shenzhen, Guangdong, China		
CTATES!	TESTIN			
Test	Result:	PASS		

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. CTATESTING

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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 C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices KDB558074 D01 v05r02: Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

CTATE

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2 SUMMARY

2.1 General Remarks

2.1 General Remarks		
Date of receipt of test sample		Oct. 07, 2023
Testing commenced on		Oct. 07, 2023
Testing concluded on	:	Oct. 17, 2023

2.2 Product Description

Product Description:	ALLYBOTC2
Model/Type reference:	C44P2DV2
Power supply:	DC 25.6V From battery and AC100V-240V 50/60Hz
testing sample ID:	CTA231007006-1# (Engineer sample) CTA231007006-2# (Normal sample)
Hardware version:	V1.0
Software version:	V1.0
WIFI:	
Supported type:	802.11b/802.11g/802.11n(H20)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20): OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11
Channel separation:	5MHz
Antenna type:	Internal antenna
Antenna gain:	2.00 dBi

2.3 Equipment Under Test

Power supply system utilised

Power supply system utilise			STING
Power supply voltage	: (230V / 50 Hz	○ 120V / 60Hz
		12 V DC	○ 24 V DC
	•	Other (specified in blan	k below)

DC 25.6V From battery and AC100V-240V 50/60Hz

Short description of the Equipment under Test (EUT)

This is a ALLYBOTC2.

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

2.5 EUT operation mode

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

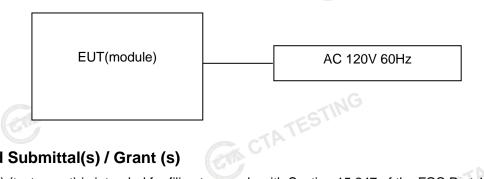
IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

Channel F	Frequency(MHz) Channe	I Frequency(MHz)
-----------	-----------------------	------------------

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2412	8	2447
2417	9	2452
2422	10	2457
2427	JG 11	2462
2432	1110	
2437		·G
2442		TING
CAN	CTP CTP	TEST
	2417 2422 2427 2432 2437	2417 9 2422 10 2427 11 2432 2437 2442

Block Diagram of Test Setup 2.6



Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

Modifications 2.8

No modifications were implemented to meet testing criteria. CTATESTING

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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.

Environmental conditions

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

Radiated Emission:

tadiatoa Efficoloff.	
Temperature:	25 ° C
Humidity:	45 %
	2000
Atmospheric pressure:	950-1050mbar

Conducted testing:

onadoted teeting.	
Temperature:	25 ° C
1	
Humidity:	44 %
-55	111.
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission

-51"
950-1050mbar
STIN
950-1050mbar
24 ° C
(SVI)
44 %
950-1050mbar
CTATESTING

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3.4 Test Description

	FCC PART 15.247			
	FCC Part 15.207 AC Power Conducted Emission			
	FCC Part 15.247(a)(2)	6dB Bandwidth	PASS	
	FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS	
	FCC Part 15.247(b)	Maximum Peak Conducted Output Power	PASS	
	FCC Part 15.247(e)	Power Spectral Density	PASS	
	FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS	
CIL	FCC Part 15.247(d)	Band Edge	PASS	
	FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS	

Data Rate Used:

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	11b/DSSS	1 Mbps	1/6/11
Power Spectral Density 6dB Bandwidth	11g/OFDM	6 Mbps	1/6/11
Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11b/DSSS	1 Mbps	1/11
Band Edge	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11

3.5 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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " 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.:

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)

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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.

Equipments Used during the Test

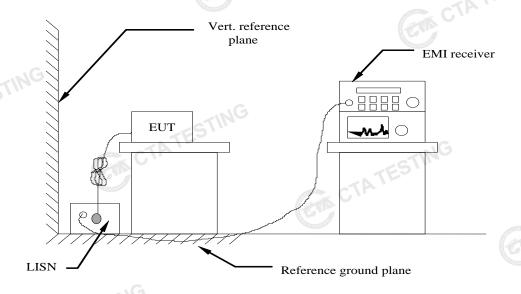
		using a cover Used during the	\P		ATESTING		
	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibrati Due Da	
	LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/	
	LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/	
ATE	EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/	
	EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/	
	Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/	
	Spectrum Analyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/	
	Vector Signal generator			CTA-305	2023/08/02	2024/08/	
	Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/0	
	Universal Radio Communication	CMW500	R&S	CTA-302	2023/08/02	2024/08	
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08	
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2021/08/07	2024/08/	
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2021/08/07	2024/08/	
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2021/08/07	2024/08/	
	Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/	
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/	
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08	
TE	Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/	
ATE	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08	
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08	
	Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08	
	Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/	
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/	

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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 C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and 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:

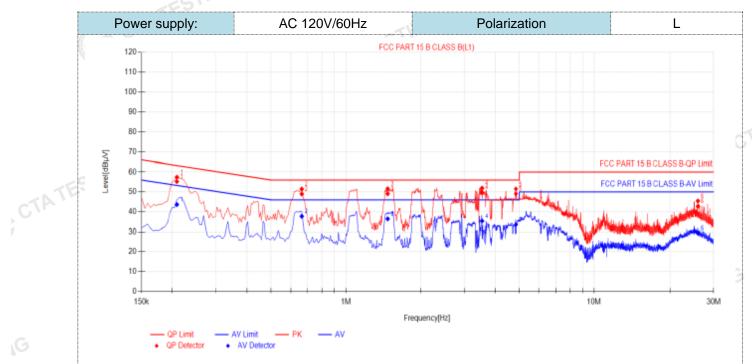
Frequency range (MHz)	Limit (dBuV)					
Frequency range (IVII 12)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
* Decreases with the logarithm of the frequency.						

Remark:

1. All modes of GFSK, $\Pi/4$ DQPSK were test at Low, Middle, and High channel; only the worst result of GFSK Middle Channel was reported as below:

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2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

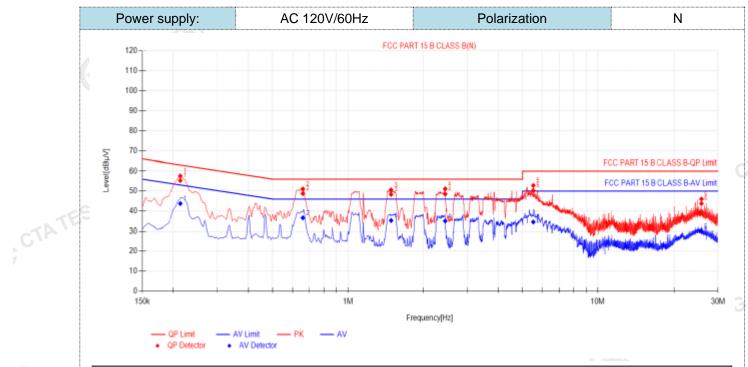


Final NO.	Freq.	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict	
1	0.2085	10.07	45.17	55.24	63.26	8.02	33.54	43.61	53.26	9.65	PASS	
2	0.663	9.96	39.00	48.96	56.00	7.04	27.74	37.70	46.00	8.30	PASS	
3	1.473	9.90	39.18	49.08	56.00	6.92	26.51	38.41	46.00	9.59	PASS	
4	3.534	9.96	39.86	49.82	56.00	6.18	25.37	35.33	46.00	10.67	PASS	
5	4.839	9.98	39.13	49.11	56.00	6.89	23.51	33.49	46.00	12.51	PASS	
6	25.8945	10.53	32.20	42.73	60.00	17.27	18.83	29.36	50.00	20.64	PASS	- \
6 25.8945 10.53 32.20 42.73 60.00 17.27 18.83 29.36 50.00 20.64 PASS Note:1).QP Value (dBμV)= QP Reading (dBμV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)												

CTATESTING

- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
 - 4). AVMargin(dB) = AV Limit (dB μ V) AV Value (dB μ V)

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	Final Data List												
	NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dΒμV]	AV Margin [dB]	Verdict	
	1	0.213	9.97	45.35	55.32	63.09	7.77	33.77	43.74	53.09	9.35	PASS	
	2	0.6585	10.10	38.70	48.80	56.00	7.20	26.49	36.59	46.00	9.41	PASS	
1 2	3	1.4865	10.13	38.20	48.33	56.00	7.67	25.12	35.25	46.00	10.75	PASS	
	4	2.445	10.12	38.41	48.53	56.00	7.47	24.88	35.00	46.00	11.00	PASS	
	5	5.514	10.17	40.15	50.32	60.00	9.68	24.31	34.48	50.00	15.52	PASS	
]	6	25.728	10.72	33.06	43.78	60.00	16.22	19.32	30.04	50.00	19.96	PASS	
Note:1).QP Value (dBμV)= QP Reading (dBμV)+ Factor (dB) 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB) 3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)													
3		Margin(dB) . AVMargin				-		•					

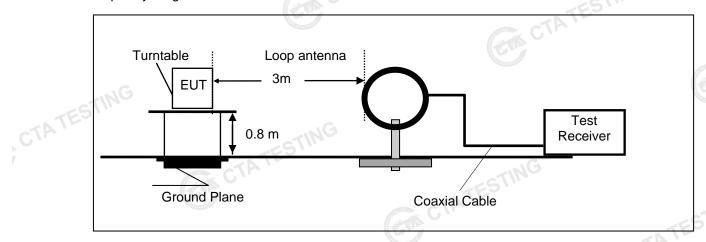
- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dB μ V) QP Value (dB μ V)
 - 4). AVMargin(dB) = AV Limit (dBμV) AV Value (dBμV) CTA TESTING

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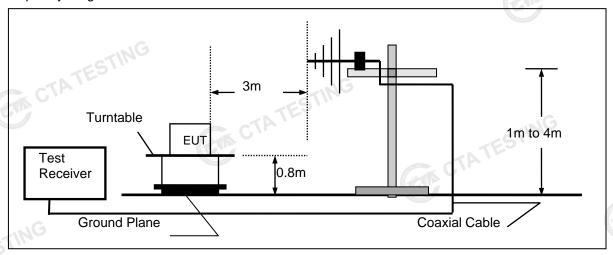
4.2 Radiated Emission

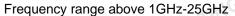
TEST CONFIGURATION

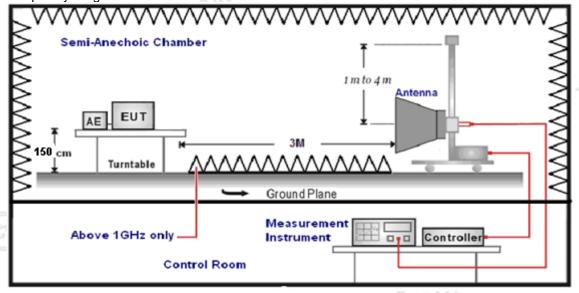
Frequency range 9 KHz – 30MHz



Frequency range 30MHz - 1000MHz







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TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz -1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz - 25GHz.
- 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.
- And also, each emission was to be maximized by changing the polarization of receiving 3. antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 25GHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance	CALL.
9KHz-30MHz	Active Loop Antenna	3	100 TO 10
30MHz-1GHz	Ultra-Broadband Antenna	3	
1GHz-18GHz	Double Ridged Horn Antenna	3	
18GHz-25GHz	Horn Anternna	1	

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

FS = RA + AF + CL - AG	CTATESTING
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	Radiated (dBµV/m)	Radiated (µV/m)
	(Meters)		
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(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

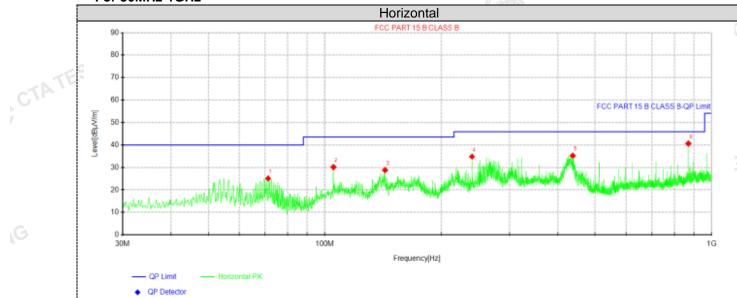
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TEST RESULTS

Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X
- 2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz



Su	spec	cted Data	List							
NIC		Freq.	Reading	Level	Factor	Limit	Margin	Height	Angle	Dolorita
NO	J.	[MHz]	[dBµV]	[dBµV/m]	[dB/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1		71.3462	40.50	25.23	-15.27	40.00	14.77	100	293	Horizontal
2	2	105.175	43.59	30.16	-13.43	43.50	13.34	100	360	Horizontal
3	3	143.247	44.95	28.85	-16.10	43.50	14.65	100	303	Horizontal
4	ļ	240.005	47.74	34.86	-12.88	46.00	11.14	100	112	Horizontal
5	5	437.521	45.46	35.31	-10.15	46.00	10.69	100	282	Horizontal
6	6	870.505	43.76	40.63	-3.13	46.00	5.37	100	21	Horizontal

Note:1).Level $(dB\mu V/m)$ = Reading $(dB\mu V)$ + Factor (dB/m)

- 2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) Pre Amplifier gain (dB)
- 3). Margin(dB) = Limit (dB μ V/m) Level (dB μ V/m) CTATE

CTA TESTING