

FCC PART 15 SUBPART C TEST REPORT					
FCC PART 15.247					
Report Reference No: FCC ID	GTS20220530010-1-1 2A76F-LBC1				
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Date of issue	Aug.01, 2022				
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Applicant's name	Shenzhen Jingfei Technology Co. ,Ltd.				
Address	Room 201 No. 4th Huanguannan Road Guanlan Subdistrict Longhua District Shenzhen City Guangdong Province China				
Test specification:					
Standard:	FCC Part 15.247: Operation within the bands 902-928 MHz, 2400- 2483.5 MHz and 5725-5850 MHz				
TRF Originator	Shenzhen Global Test Service Co.,Ltd.				
Master TRF	Dated 2014-12				
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Test item description	Surveillance cameras				
Trade Mark	N/A				
Manufacturer	Shenzhen Jingfei Technology Co. ,Ltd.				
Model/Type reference:	LBC1				
Listed Models	LBC2, LBC3, LBC4, LBC5, LBC6, LBC7, LBC8, LBC9, LBC10				
Operation Frequency	From 2412MHz to 2462MHz				
Hardware Version	N/A				
Software Version	N/A				
Rating	AC 110-240V, 50/60Hz				
Result	PASS				

# **TEST REPORT**

	Test Report No. :	GTS20220530010-1-1		Aug.01, 2022
Equ	uipment under Test	:	Surveillance cameras	
Мо	del /Type	:	LBC1	
List	ted model	:	LBC2, LBC3, LBC4, LBC5, LBC6,	LBC7, LBC8, LBC9, LBC10
Ар	plicant	:	Shenzhen Jingfei Technology C	o. ,Ltd.
Ado	dress	:	Room 201 No. 4th Huanguannan I District Shenzhen City Guangdong	Road Guanlan Subdistrict Longhua 9 Province China
Ма	nufacturer	:	Shenzhen Jingfei Technology C	o. ,Ltd.
Ado	dress	:	Room 201 No. 4th Huanguannan I District Shenzhen City Guangdong	Road Guanlan Subdistrict Longhua 9 Province 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:

<u>FCC Rules Part 15.247</u>: 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. <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices <u>KDB 558074 D01 DTS Meas Guidance v05r02</u>: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

# 2. <u>SUMMARY</u>

# 2.1. General Remarks

Date of receipt of test sample	:	Jun. 09, 2022
Testing commenced on	:	Jun. 09, 2022
Testing concluded on	:	Jul. 29, 2022

# 2.2. Product Description

Product Name	Surveillance cameras
Trade Mark	N/A
Model/Type reference	LBC1
List Models	LBC2, LBC3, LBC4, LBC5, LBC6, LBC7, LBC8, LBC9, LBC10
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:	AC 110-240V, 50/60Hz
Sample ID	GTS20220530010-1-S0001-1#& GTS20220530010-1-S0001-2#
WIFI(2.4G Band)	
Frequency Range	2412MHz ~ 2462MHz
Channel Spacing	5MHz
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz) 7 Channel for 40MHz bandwidth(2422~2452MHz)
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM
Antenna Description	Internal Antenna, 3.80dBi(Max.) for 2.4G Band

## 2.3. Equipment Under Test

## Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	${\color{black}\bullet}$	120V / 60Hz
		0	12 V DC	0	24 V DC
		0	O Other (specified in blank below)		

AC 120.0V

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

This is a Surveillance cameras .

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 KDLBC158074 test requirement.

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

Antenna	Chai	in 0	Chain 1		Simultaneously
Bandwidth Mode	20MHz	40MHz	20MHz	40MHz	/
IEEE 802.11b	Ø				
IEEE 802.11g	Ø				
IEEE 802.11n	$\square$	$\checkmark$			

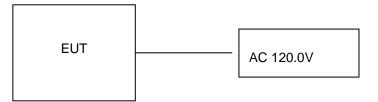
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

The EUT has been tested under operating condition.

AC main conducted emission pre-test voltage at both AC 120V/60Hz and AC 240V/60Hz, 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).

# 2.6. Block Diagram of Test Setup



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

This submittal(s) (test report) is intended for FCC ID: 2A76F-LBC1 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 (ADB instructions) provided by application.

# 2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate

# 2.10. External I/O Cable

I/O Port Description	Quantity	Cable

# 2.11. Modifications

No modifications were implemented to meet testing criteria.

# 3. <u>TEST ENVIRONMENT</u>

# 3.1. Address of the test laboratory

#### Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China.

# 3.2. Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

# 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 Global Test Service 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 GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 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: FCC Part 15 Subpart C				
ISED Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	GTS20220530010-1-S0001-1#	/	/
§15.247(b)	Maximum Conducted Output Power	GTS20220530010-1-S0001-1#	Compliant	Note 1
§15.247(e)	Power Spectral Density	GTS20220530010-1-S0001-1#	Compliant	Appendix A
§15.247(a)(2)	6dB Bandwidth	GTS20220530010-1-S0001-1#	Compliant	Appendix A
§2.1047	99% Occupied Bandwidth	GTS20220530010-1-S0001-1#	Compliant	Appendix A
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20220530010-1-S0001-1#	Compliant	Appendix A
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20220530010-1-S0001-1# GTS20220530010-1-S0001-2#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20220530010-1-S0001-1#	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	GTS20220530010-1-S0001-2#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20220530010-1-S0001-1#	Compliant	Note 1
§15.247(i)§2.1 091	RF Exposure	/	Compliant	Note 2

#### Remark:

- The measurement uncertainty is not included in the test result. 1.
- NA = Not Applicable; NP = Not Performed 2.
- 3.
- Note 1 Test results inside test report; Note 2 Test results in other test report (MPE Report). 4.
- 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	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 <sup>th</sup> Harmonic	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5Mbps	3/6/09
	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
Band Edge	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9

# 3.6. Equipments Used during the Test

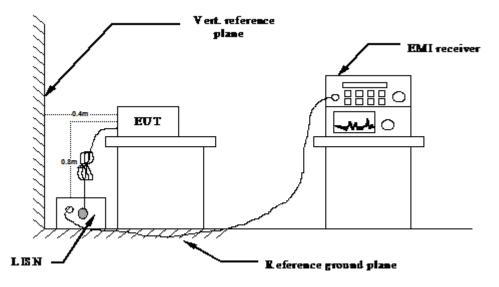
	_		1		
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESCI7	101102	2021/09/19	2022/09/18
Spectrum Analyzer	Agilent	N9020A	MY48010425	2021/09/19	2022/09/18
Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Vector Signal generator	Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Signal generator	Agilent	N5182A	3610AO1069	2021/09/19	2022/09/18
Climate Chamber	ESPEC	EL-10KA	A20120523	2021/09/19	2022/09/18
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2021/11/07	2022/11/06
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2021/10/10	2022/11/09
Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021/11/07	2022/11/06
Amplifier	Schwarzbeck	BBV 9743	#202	2021/08/08	2022/08/07
Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
Temperature/Humidi ty Meter	Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	KL142031	2022/07/13	2023/07/12
High-Pass Filter	K&L	41H10- 1375/U12750- O/O	KL142032	2022/07/13	2023/07/12
RF Cable(below 1GHz)	HUBER+SUHNE R	RG214	RE01	2022/07/13	2023/07/12
RF Cable(above 1GHz)	HUBER+SUHNE R	RG214	RE02	2022/07/13	2023/07/12
Data acquisition card	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
Automated filter bank	Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/
Note: The Cal.Interval	was one year				

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 C63.10-2013.

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 AC 120V power, the 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

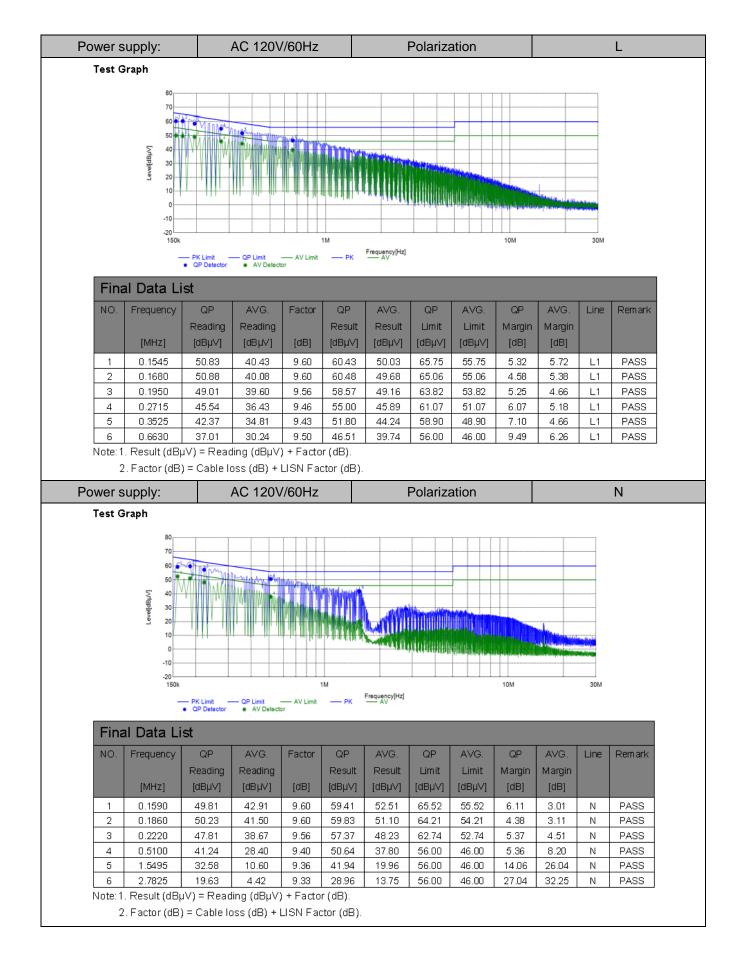
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (c	dBuV)	
Frequency range (MHz)	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 HT20/802.11n HT40 mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

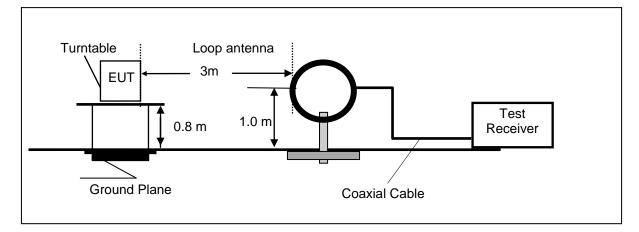
Temperature	<b>25</b> ℃	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11g (MCH)



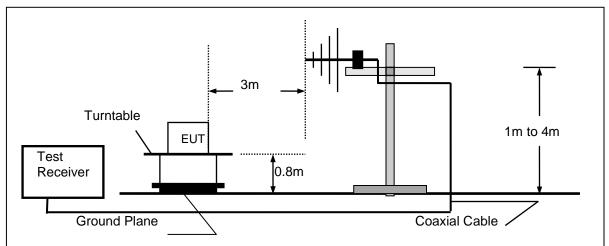
# 4.2. Radiated Emission

## **TEST CONFIGURATION**

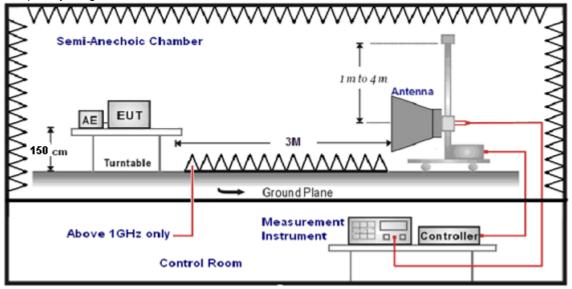
Frequency range 9 KHz – 30MHz



#### Frequency range 30MHz – 1000MHz



#### Frequency range above 1GHz-25GHz



#### TEST PROCEDURE

- 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 Anternna	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 the100kHz 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	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

#### TEST RESULTS

Remark: We measured Radiated Emission at 802.11b/802.11g/802.11n HT20/802.11n HT40 mode from 30 MHz to 25GHz in AC120V and the worst case was recorded.

Temperature	<b>25</b> ℃	Humidity	60%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11g (MCH)

#### For 9 KHz~30MHz

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

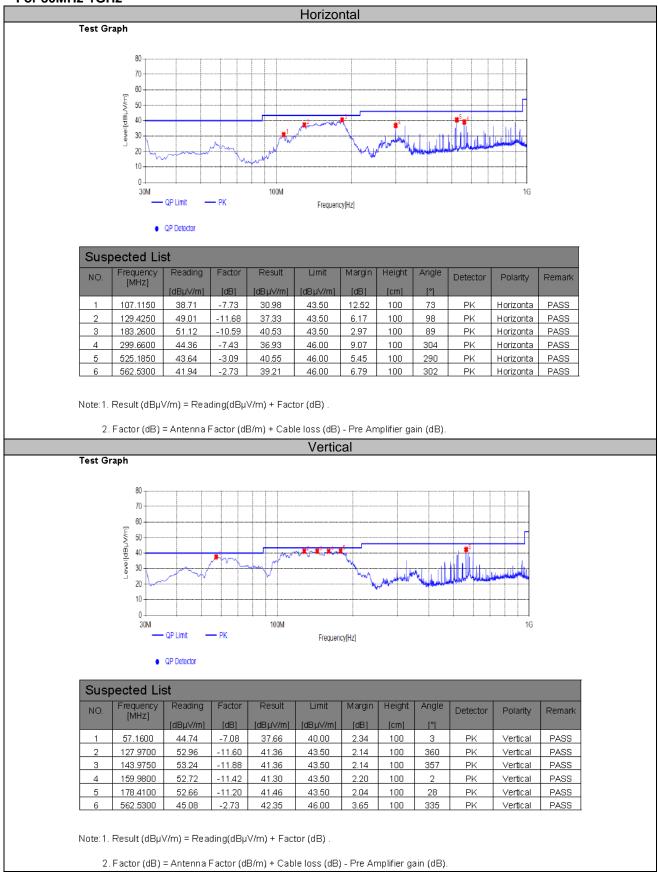
Note:

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 (specific distance / test distance) (dB);

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

#### For 30MHz-1GHz



IEEE 802.11b

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	50.80	32.44	30.25	7.95	60.94	74.00	-13.06	Peak	Horizontal
4824.00	35.94	32.44	30.25	7.95	46.08	54.00	-7.92	Average	Horizontal
4824.00	53.60	32.44	30.25	7.95	63.74	74.00	-10.26	Peak	Vertical
4824.00	35.49	32.44	30.25	7.95	45.63	54.00	-8.37	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	50.80	32.52	30.31	8.12	61.13	74.00	-12.87	Peak	Horizontal
4874.00	37.29	32.52	30.31	8.12	47.62	54.00	-6.38	Average	Horizontal
4874.00	52.40	32.52	30.31	8.12	62.73	74.00	-11.27	Peak	Vertical
4874.00	35.26	32.52	30.31	8.12	45.59	54.00	-8.41	Average	Vertical

Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	51.92	32.68	30.27	7.88	62.21	74.00	-11.79	Peak	Horizontal
4924.00	35.79	32.68	30.27	7.88	46.08	54.00	-7.92	Average	Horizontal
4924.00	50.11	32.68	30.27	7.88	60.40	74.00	-13.60	Peak	Vertical
4924.00	30.69	32.68	30.27	7.88	40.98	54.00	-13.02	Average	Vertical

IEEE 802.11g

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	50.51	32.44	30.25	7.95	60.65	74.00	-13.35	Peak	Horizontal
4824.00	36.30	32.44	30.25	7.95	46.44	54.00	-7.56	Average	Horizontal
4824.00	54.10	32.44	30.25	7.95	64.24	74.00	-9.76	Peak	Vertical
4824.00	35.86	32.44	30.25	7.95	46.00	54.00	-8.00	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	49.62	32.52	30.31	8.12	59.95	74.00	-14.05	Peak	Horizontal
4874.00	37.08	32.52	30.31	8.12	47.41	54.00	-6.59	Average	Horizontal
4874.00	51.82	32.52	30.31	8.12	62.15	74.00	-11.85	Peak	Vertical
4874.00	36.92	32.52	30.31	8.12	47.25	54.00	-6.75	Average	Vertical

#### Report No.: GTS20220530010-1-1

## Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	50.40	32.68	30.27	7.88	60.69	74.00	-13.31	Peak	Horizontal
4924.00	35.39	32.68	30.27	7.88	45.68	54.00	-8.32	Average	Horizontal
4924.00	48.60	32.68	30.27	7.88	58.89	74.00	-15.11	Peak	Vertical
4924.00	31.80	32.68	30.27	7.88	42.09	54.00	-11.91	Average	Vertical

## IEEE802.11 n HT20

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4824.00	50.12	32.44	30.25	7.95	60.26	74.00	-13.74	Peak	Horizontal
4824.00	36.55	32.44	30.25	7.95	46.69	54.00	-7.31	Average	Horizontal
4824.00	53.83	32.44	30.25	7.95	63.97	74.00	-10.03	Peak	Vertical
4824.00	35.06	32.44	30.25	7.95	45.20	54.00	-8.80	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	50.64	32.52	30.31	8.12	60.97	74.00	-13.03	Peak	Horizontal
4874.00	37.97	32.52	30.31	8.12	48.30	54.00	-5.70	Average	Horizontal
4874.00	52.38	32.52	30.31	8.12	62.71	74.00	-11.29	Peak	Vertical
4874.00	36.63	32.52	30.31	8.12	46.96	54.00	-7.04	Average	Vertical

Channel 11 / 2462 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	50.90	32.68	30.27	7.88	61.19	74.00	-12.81	Peak	Horizontal
4924.00	36.35	32.68	30.27	7.88	46.64	54.00	-7.36	Average	Horizontal
4924.00	50.09	32.68	30.27	7.88	60.38	74.00	-13.62	Peak	Vertical
4924.00	32.17	32.68	30.27	7.88	42.46	54.00	-11.54	Average	Vertical

IEEE802.11 n HT40

Channel 3 / 2422 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4844.00	50.26	32.44	30.25	7.95	60.40	74.00	-13.60	Peak	Horizontal
4844.00	36.49	32.44	30.25	7.95	46.63	54.00	-7.37	Average	Horizontal
4844.00	52.99	32.44	30.25	7.95	63.13	74.00	-10.87	Peak	Vertical
4844.00	36.26	32.44	30.25	7.95	46.40	54.00	-7.60	Average	Vertical

#### Report No.: GTS20220530010-1-1

# Channel 6 / 2437 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	50.67	32.52	30.31	8.12	61.00	74.00	-13.00	Peak	Horizontal
4874.00	37.57	32.52	30.31	8.12	47.90	54.00	-6.10	Average	Horizontal
4874.00	51.85	32.52	30.31	8.12	62.18	74.00	-11.82	Peak	Vertical
4874.00	36.90	32.52	30.31	8.12	47.23	54.00	-6.77	Average	Vertical

Channel 09/ 2452 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4904.00	51.62	32.68	30.27	7.88	61.91	74.00	-12.09	Peak	Horizontal
4904.00	35.05	32.68	30.27	7.88	45.34	54.00	-8.66	Average	Horizontal
4904.00	50.30	32.68	30.27	7.88	60.59	74.00	-13.41	Peak	Vertical
4904.00	32.23	32.68	30.27	7.88	42.52	54.00	-11.48	Average	Vertical

## REMARKS:

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Collection 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. -- Mean the PK detector measured value is below average limit.
  5. The other emission levels were very low against the limit.

# 4.3. Maximum Peak Output Power

#### TEST CONFIGURATION



#### TEST PROCEDURE

According to KDB558074 D01 15.247 Measurement Guidance v05r02 Section 8.3.1 Maximum peak conducted output power, 8.3.1.3 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.

#### <u>LIMIT</u>

The Maximum Peak Output Power Measurement is 30dBm.

#### TEST RESULTS

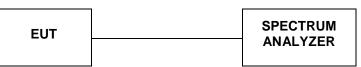
Temperature	<b>25</b> ℃	Humidity	45%
Test Engineer	Jenny Zeng	Configurations	IEEE 802.11b/g/n

Туре	Channel	Output power PK (dBm)	Limit (dBm)	Result	
	01	19.65			
802.11b	06	19.72	30.00	Pass	
	11	19.58			
	01	23.28			
802.11g	06	23.50	30.00	Pass	
	11	24.11			
	01	23.36			
802.11n(HT20)	06	23.31	30.00	Pass	
	11	24.06			
802.11n(HT40)	03	23.46			
	06	24.14	30.00	Pass	
	09	24.32			

Note: 1.The test results including the cable lose. Duty cycle used in all test items: 100%

# 4.4. 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:  $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$ .
- 4. Set the VBW  $\geq$  3 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 A.3.

# 4.5. 99% and 6dB Bandwidth

## **TEST CONFIGURATION**

EUT	SPECTRUM ANALYZER

#### 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 KDLBC158074 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)  $\ge$  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.

# <u>LIMIT</u>

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 A.1.

Please refer to Appendix A.2.

# 4.6. 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 20 dB 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.
- 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)
- 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 = EIRP - 20log D + 104.8

where:

E = electric field strength in  $dB\mu V/m$ ,

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.

## <u>LIMIT</u>

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

# 4.6.1 For Radiated Bandedge Measurement

Test Engineer      Jenny Zeng      Configurations      IEEE 802.11b/g/n        B02.11b        Frequency(MHz):      2412      Polarity:      HORIZONTAL        Frequency(MHz):      2412      Polarity:      Antenna      Cable      Raw      Antenna      Cable      Pre      Correction        2390.00      35.36      AV      54.00      -18.64      1      88      40.67      27.49      3.32      36.12      -5.31        Frequency(MHz):      2412      Polarity:      VAUID      Pask      Antenna      Cable Pre      Correction        (MHz):      Envision      Limit      Margin      Antenna      Table      Raw      Antenna      Cable Pre      Correction      Factor		Temperature		23.8°C			Humidity			53.7%			
802.11b      Polarity:      HORIZONTAL        Frequency      Emission (dBuV/m)      Limit (dBuV/m)      Margin (dBuV/m)      Antenna (dBuV/m)      Raw (dBuV/m)      Antenna (dBuV/m)      Correction (dBuV/m)        2390.00      46.14      PK      74.00      -27.86      1      88      51.45      27.49      3.32      36.12      -5.31        2390.00      35.36      AV      54.00      -18.64      1      88      61.45      27.49      3.32      36.12      -5.31        Frequency(MHz):      2412      Antenna      Table Angle (DBUV/m)      Antenna      Cable Pre      Correction Factor amplifit      Factor        2380.00      31.42      AV      54.00      -22.58      1      298      36.73      27.49      3.32      36.12      -5.31        Frequency(IMHz):      2462      Polarity:      HORIZONTAL      Factor	Test Engineer		Jenny Zeng			Configurations			IEEE 802.11b/g/n				
Frequency (MHz)      Emission (dBU/Vm)      Limit (dBU/Vm)      Margin (dB)      Antenna Height (dBU/Vm)      Table Nagle (dBU/V)      Raw Value (dBU/Vm)      Antenna Factor      Cable Factor      Pre- contractor (dBV/m)      Correction (dB)        2390.00      46.14      PK      74.00      -27.86      1      88      51.45      27.49      3.32      36.12      -5.31        3290.00      35.38      AV      54.00      -18.64      1      88      61.45      27.49      3.32      36.12      -5.31        Frequency (MHz)      Limit (dBU/Vm)      Margin (dB)      Antenna (dB)      Table (m)      Raw (Degree)      Antenna Factor      Factor      Factor      Factor      Correction (dB/m)      Factor					, ,	802.1	Ū.			Ŭ			
Prequency (MHz)      Level (dBu//m)      Limit (dBU/m)      Margin (m)      Height (m)      Angle (Degree)      Value (dBu/m)      Factor (dB/m)      Factor (dB	Frequenc	y(MHz):			2412			Polarity:		ŀ	NTAL		
(MHz)      Level (dBuV/m) (dBuV/m)      (dBuV/m) (dBuV/m)      (dBuV/m) (dBUV/m) <th< td=""><td>Frequency</td><td></td><td></td><td>Limit</td><td>Margin</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Frequency			Limit	Margin								
2390.00      46.14      PK      74.00      -27.86      1      88      51.45      27.49      3.32      36.12      -5.31        2390.00      35.36      AV      54.00      -18.64      1      88      51.45      27.49      3.32      36.12      -5.31        Frequency(MHz):      Limit (dBU/m)      Margin (dB)      Antenna Cable Pre- Correction (dBw/)      Value (dBw/)      48.47      Antenna Cable Pre- Correction (dBw/)      63.73      27.49      3.32      36.12      -5.31        2390.00      50.80      PK      74.00      -22.58      1      298      56.11      27.49      3.32      38.12      -5.31        Frequency (MHz):      2462      Polarity:      Height (dBW/m)      Antenna Table (MB) (dB/m)      Raw Antenna Cable Pre- (dB/m)      Correction Factor Factor amplifit Factor (dB/m)      Factor Factor amplifit Factor (dB/m)      2483.50      3.38      36.55      -5.72        2483.50      43.92      PK      74.00      -22.86      1      130      36.68      -7.45      3.38      36.55      -5.72        2483.50      49.72      PK						-	0						
2390.00      35.36      AV      54.00      -18.64      1      88      40.67      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission (BWV/m)      Limit (BWV/m)      Margin (GB)      Antenna (GB)      Antenna (GB)      Antenna (GB)      Antenna (GB)      Antenna (GB)      Cable (GB/m)      Pre- (GB/m)      Correction Factor        2390.00      31.42      AV      54.00      -22.26      1      298      36.73      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission (BWV/m)      Limit (BWV/m)      Margin (dB)      Antenna (dB)      Table (Degree)      Raw Antenna Table (MHz)      Antenna Factor      Table (BWV/m)      Natenna Factor      Sa.8      36.55      -5.72        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        Frequency (MHz)      Emission Level      Limit (BWV/m)      Margin (GB)      Antenna Table (m)      Table (Degree)      Natenna Table (M)      Antenna Table (M)      Antenna Table (M)      Antenna Table (BWV)      Antenna Table (M)	2390.00			74.00	-27.86			· · · /	· · /	· · /		· /	
Frequency(MHz):      2412      Polarity:      VERTICAL        Frequency (MHz)      Limit (BUV/m)      Limit (BUV/m)      Antenna (BUV/m)      Table (BUV/m)      Antenna (BUV/m)      Table (BUV/m)      Antenna (BB/m)      Antenna (AB/m)      Antenna (AB/m)      Antenna (BB/m)      Antenna (													
Frequency (MHz)      Emission (BWV/m)      Limit (BWV/m)      Margin (BB)      Antenna (BB)      Table (Angle (Degree)      Raw (Algund (BW)      Antenna Factor      Cable (BW)      Pre- (BZ/m)      Correction Factor        2390.00      50.80      PK      74.00      -22.20      1      298      56.11      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level      Limit (BWV/m)      Antenna (BWV/m)      Antenna (BWV/m)      Table (BWV/m)      Polarity:      HORIZONTAL        Frequency (MHz)      Emission Level      Limit (BWV/m)      Antenna (BWV/m)      Antenna (BWV/m)      Table (BWV/m)      Antenna (BWV/m)      Antenna (BWV/m)      Antenna (BWV/m)      Antenna (BWV/m)      Cable (BWV/m)      Pre- (BWV/m)      Correction (BB/m)        2483.50      33.88      AV      54.00      -22.11      1      190      51.02      27.45      3.38      36.55      -5.72        Frequency (MHz)      Limit (BWV/m)      Margin (BWV/m)      Antenna (ABWV/m)      Antenna (ABWV/m)      Antenna (ABWV/m)      Antenna (ABWV/m)      Antenna (ABWV/m)      Antenna (BWV/m)      Antenna (ABWV/m)      Antenna (ABWV/m)						-							
Frequency (MHz)      Level (BUV/m)      Limit (BUV/m)      Margin (BB)      Height (m)      Angle (Degree)      Value (BUV)      Factor (BB/m)      Factor (BB/m)        2390.00      50.80      PK      74.00      -23.20      1      298      56.11      27.49      3.32      36.12      -5.31        2390.00      31.42      AV      54.00      -22.58      1      298      56.11      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level      Limit (BUV/m)      Margin (dB)      Antenna Height (BU/m)      Table (Mm)      Raw Antenna Angle (BUV/m)      Antenna Height (BUV/m)      Raw Angle (BUV/m)      Antenna (BM/m)      Cable Antenna Angle (BUV/m)      VERTICAL        Frequency (MHz)      Emission Level (BUV/m)      Limit (BUV/m)      Margin (AB)      Antenna Antenna Bable (BUV/m)      Table (BM/m)      Antenna Cable (BUV/m)      Cable Pre- (BU/m)      Correction Factor        2483.50      49.72      PK      74.00      -24.28      1      133      36.65      -5.72        2483.50      49.72      PK      74.00      -24.28      1      133      36.08 <td></td> <td></td> <td>sion</td> <td></td> <td></td> <td>Antenna</td> <td>Table</td> <td>-</td> <td>Antenna</td> <td>Cable</td> <td>Pre-</td> <td>Correction</td>			sion			Antenna	Table	-	Antenna	Cable	Pre-	Correction	
2390.00      31.42      AV      54.00      -22.58      1      298      56.11      27.49      3.32      36.12      -5.31        2390.00      31.42      AV      54.00      -22.58      1      298      36.73      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission (abuVm)      Limit (dBuV/m)      Margin (dB)      Antenna (dB)      Antenna (dB)      Raw (ng)      Antenna (AbuVm)      Antenna (dB)      Correction (abuVm)      Factor        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        2483.50      49.72      PK      74.00      -24.28      1      133      55.44      27.45      3.38      36.55      -5.72        2483.50      49.72      PK      74.00      -24.28      1      133      36.08      27.45      3.38      36.5		Lev	el								amplifi		
2390.00      31.42      AV      54.00      -22.58      1      298      36.73      27.49      3.32      36.12      -5.31        Frequency(MHz):      2483.50      Antenna      Table (BUV)      Antenna      Table (MBUV)      Correction (ABUM)        Yere (MHz)      Correction (ABUM)      Correction (ABUM)        Yere (ABUV/m)      Yere (ABUM)      Correction (ABUM)        Yere (ABUM)	. ,			, ,	. ,	(m)		. ,	· · /	、 <i>/</i>		· · ·	
Frequency (MHz)      Emission Level (BUV/m)      Limit (dBU/m)      Margin (dB)      Antenna Height (m)      Table (Degree)      Raw Value (BUV)      Antenna Factor      Correction Factor        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        2483.50      33.89      AV      54.00      -28.70      1      190      39.61      27.45      3.38      36.55      -5.72        2483.50      33.89      AV      54.00      -28.70      1      190      39.61      27.45      3.38      36.55      -5.72        2483.50      39.72      PK      74.00      -24.28      1      133      55.44      27.45      3.38      36.55      -5.72        2483.50      49.72      PK      74.00      -24.28      1      133      36.08      27.45      3.38      36.55      -5.72        2483.50      49.72      PK      74.00      -28.09      1      131      36.08      27.45      3.38      36.55      -5.72 </td <td></td>													
Frequency (MHz)      Emission Level (BBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna (dB)      Table Angle (m)      Raw Value (BBuV/ (BB)      Antenna Factor (dBw/)      Calle Factor (dBw/)      Pre- Factor (dBw/)      Correction Factor (dBw/)        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        2483.50      33.89      AV      54.00      -20.11      1      190      39.61      27.45      3.38      36.55      -5.72        Frequency(MHz):      2462      Polarity:      VETICAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Antenna (dB)      Table (Degree)      Raw (dBuV)      Antenna S6.54      27.45      3.38      36.55      -5.72        2483.50      49.72      PK      74.00      -24.28      1      133      36.08      27.45      3.38      36.55      -5.72        2483.50      30.36      AV      54.00      -23.64      1      133      36.02      27.45      3.38      36.55			AV	54.00		1	298		27.49				
Frequency (MHz)      Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Height (m)      Angle (Degree)      Value (dBuV      Factor (dB)      Factor (dB	Frequenc				2462	1.		-	Ι.		-		
(MH2)      (dBuV/m)      (dB)      (m)      (Degree)      (dBV)      (dB/m)      (dB)      er      (dB/m)        2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        2483.50      33.89      AV      54.00      -20.11      1      190      39.61      27.45      3.38      36.55      -5.72        Frequency      Emission Level      Limit (dBuV/m)      Margin (dB)      Antenna (dB)      Antenna (dB)      Antenna (dB)      Antenna (dB)      Factor      Factor      Correction Factor      Factor      Factor      Factor      Correction Factor      Factor      Factor      Factor      Correction Factor      Factor      Factor      GB/m/m	Frequency			Limit	Margin								
2483.50      45.30      PK      74.00      -28.70      1      190      51.02      27.45      3.38      36.55      -5.72        Frequency(MHz):      2462      Polarity:      VERTICAL        Frequency(MHz):      Limit (BuV/m)      Margin (dBUV/m)      Antenna (GBU      Raw (Antenna (GBU)      Antenna (GBU)      Correction (GB/m)      Factor (GB/m)      Correction (GB/m)        2483.50      30.36      AV      54.00      -23.64      1      133      36.08      27.45      3.38      36.55      -5.72        2483.50      30.36      AV      54.00      -23.64      1      133      36.08      27.45      3.38      36.55      -5.72        Prequency(MHz):      Polarity:      HORIZONTAL        Frequency(MHz):      Polarity:      HORIZONTAL        Frequency(MHz):      2412      Polarity:      HORIZONTAL        Gene (MWz):      2412      Polarity:      Correction Factor amplifi        Correction      Fre	(MHz)			(dBuV/m)		•	•				-		
2483.50      33.89      AV      54.00      -20.11      1      190      39.61      27.45      3.38      36.55      -5.72        Frequency (MHz)      Emission (dBUV/m)      Limit (dBUV/m)      Margin (dB)      Antenna (dB)      Table (Megree)      Raw (dBW)      Antenna (dBW)      Correction (aB/m)      Correction (aB/m) <thcorrection (aB/m)      Correction (aB/m)</thcorrection 	2483.50	,	,	74 00	-28 70	. ,	,	、 ,	、 ,	、 ,		· · ·	
Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBV/m)      Margin (dB)      Antenna (dB)      Table (m)      Raw (dBV)      Antenna (dBV)      Correction (dBV)        2483.50      49.72      PK      74.00      -24.28      1      133      55.44      27.45      3.38      36.55      -5.72        2483.50      30.36      AV      54.00      -23.64      1      133      36.08      27.45      3.38      36.55      -5.72        Bolarity:      HORIZONTAL        Frequency (MHz):      Limit (dBuV/m)      Margin (dBV/m)      Antenna (dBV)      Table (m)      Raw (Degree)      Antenna Cable      Pre- Factor      Correction Factor      Factor      Correction Factor      Factor      Correction Factor      Factor      Correction Factor      Factor      Cable      Pre- Correction      Correction Factor      Factor      Cable      Pre- Core													
Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBv/m)      Margin (dB)      Antenna (dB)      Table (m)      Raw (Degree)      Antenna (dB/m)      Correction Factor      Factor (dB/m)      Colle (dB/m)      Pre- (dB/m)      Correction Factor        Ya90.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -													
(MHz)      Level (dBuV/m)      (dBuV/m) (dBuV/m)      (dB) (dB)      Artigie (m)      Artigie (Degree)      Value (dBUV)      Pactor (dB/m)      Pactor (dB/m) </td <td>-</td> <td></td> <td>sion</td> <td>Limit</td> <td>Morgin</td> <td>Antenna</td> <td>Table</td> <td>-</td> <td>Antenna</td> <td>Cable</td> <td>Pre-</td> <td>Correction</td>	-		sion	Limit	Morgin	Antenna	Table	-	Antenna	Cable	Pre-	Correction	
2483.50      49.72      PK      74.00      -24.28      1      133      55.44      27.45      3.38      36.55      -5.72        2483.50      30.36      AV      54.00      -23.64      1      133      36.08      27.45      3.38      36.55      -5.72        BOL:11g        Frequency (MHz):      2412      Polarity:      HORIZONTAL        Stack      Antenna      Table      Raw      Antenna      Cable      Pre      Correction      Factor      Factor      GB///M      GB///M <t< td=""><td></td><td></td><td></td><td></td><td></td><td>•</td><td>-</td><td></td><td></td><td></td><td>amplifi</td><td></td></t<>						•	-				amplifi		
2483.50      30.36      AV      54.00      -23.64      1      133      36.08      27.45      3.38      36.55      -5.72        B02.11g        Frequency (MHz)      Emission Level (BBU/m)      Limit (BBU/m)      Margin (BB)      Antenna Height (MB)      Table Angle (m)      Raw (Degree)      Antenna Factor      Cable Factor      Pre- Factor      Correction Factor        2390.00      45.91      PK      74.00      -28.09      1      131      51.22      27.49      3.32      36.12      -5.31        2390.00      34.31      AV      54.00      -19.69      1      131      39.62      27.49      3.32      36.12      -5.31        Frequency(IMHz):      Z412      Polarity:      VERTICAL        Frequency(IMHz)      Limit (BBU/m)      Margin (dB)      Antenna Height (m)      Table (m)      Raw Value      Antenna Factor      Cable Pre- Icorrection      Correction Factor      Factor      Factor      Correction Factor      Factor      Factor      Correction Factor      Factor      Factor      Cable Pre- Icable      Correction Factor      Factor	. ,			` '	、 <i>,</i>	, ,		· · · /	· · /	、 <i>/</i>		· · ·	
802.11g        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Angle (Degree)      Raw Value (dBuV/m)      Antenna Factor      Pre- Factor      Correction Factor        2390.00      45.91      PK      74.00      -28.09      1      131      51.22      27.49      3.32      36.12      -5.31        2390.00      34.31      AV      54.00      -19.69      1      131      39.62      27.49      3.32      36.12      -5.31        Frequency(MHz):        VERTICAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table (Degree)      Raw (Aulue (dBW)      Antenna Factor      Factor Factor      Pre- (dB/m)      Correction Factor        2390.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -5.31        Correction Frequency(MHz):      Z462      Polarity:      VERTICAL        Frequency((MHz):	-	1 1								-			
Frequency (MHz):      2412      Polarity:      HORIZONTAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Angle (Degree)      Raw Value (dBW)      Antenna Factor amplifi      Factor ampl	2483.50	30.36	AV	54.00	-23.64	-		36.08	27.45	3.38	36.55	-5.72	
Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table (ng)      Raw Value (dBuV)      Antenna Factor (dB/m)      Correction Factor (dB/m)        2390.00      45.91      PK      74.00      -28.09      1      131      51.22      27.49      3.32      36.12      -5.31        2390.00      34.31      AV      54.00      -19.69      1      131      39.62      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dB      Margin (dB)      Antenna Height (dB)      Table Antenna Height (m)      Raw Angle (Degree)      Antenna (dBuV)      Rave (dBuV)      Antenna Factor (dB/m)      Cable Factor (dB/m)      Pre- (dB/m)      Correction Factor (dB/m)        2390.00      50.82      PK      74.00      -23.18      1      103      36.13      27.49      3.32      36.12      -5.31        2390.00      29.63      AV      54.00      -23.18      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency (MHz)      Ewel (dBuV/m)      Li	Frequenc	v(MHz)·								HORIZONTAL			
Frequency (MHz)      Level (dBuV/m)      Limit (dBV/m)      Margin (dB)      Height (m)      Angle (Degree)      Value (dBuV)      Factor (dB/m)      Factor (dB)      Factor (dB/m)      Factor (dB/m			sion			Antenna	Table	-	Antenna		-		
Construction      Construction<													
2390.00      34.31      AV      54.00      -19.69      1      131      39.62      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (dB)      Table Angle (m)      Raw (dBuV)      Antenna Factor (dBuV)      Antenna Factor (dB/m)      Correction Factor (dB/m)        2390.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -5.31        2390.00      50.82      PK      74.00      -23.18      1      103      34.94      27.49      3.32      36.12      -5.31        2390.00      29.63      AV      54.00      -24.37      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dB      Margin (dB)      Antenna Height (dB)      Table Angle (Degree)      Raw Value (dBUV)      Antenna Factor (dB/m)      Cable Factor (dB/m)      Pre- (dB/m)      Correction Factor (dB/m)        2483.50      44.82      PK      74.00      -29	(IVIHZ)	(dBu∖	//m)	(abuv/m)	(aB)	(m)	(Degree)	(dBuV)	(dB/m)	(dB)	er	(dB/m)	
Frequency(MHz):      2412      Polarity:      VERTICAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (dB)      Table (m)      Raw Value (Degree)      Antenna Factor (dB/W)      Cable Factor (dB/M)      Pre- Factor (dB/m)      Correction Factor (dB/m)        2390.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -5.31        2390.00      29.63      AV      54.00      -24.37      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dB)      Margin (dB)      Antenna Height (dB)      Table Angle (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Cable Pre- Factor amplifi Factor (dB/m)      Correction Factor (dB/m)        2483.50      44.82      PK      74.00      -29.18      1      191      50.54      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.5													
Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Angle (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Antenna Factor (dB/m)      Pre- (dB/m)      Correction Factor (dB/m)        2390.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -5.31        2390.00      29.63      AV      54.00      -24.37      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table (Degree)      Raw Value (Degree)      Antenna Factor (dBW)      Pre- (dBW)      Correction Factor (dB/m)        2483.50      44.82      PK      74.00      -29.18      1      191      39.34      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)			AV	54.00		1	131		27.49	3.32			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Frequenc				2412	I		-	T				
(MHz)      Level (dBuV/m)      (dBuV/m)      (dB)      Height (m)      Ange (Degree)      Value (dBuV)      Factor (dB/m)      Factor	Frequency			Limit	Margin								
2390.00      50.82      PK      74.00      -23.18      1      103      56.13      27.49      3.32      36.12      -5.31        2390.00      29.63      AV      54.00      -24.37      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency(MHz):      2462      Polarity:      HORIZONTAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (dB)      Table Angle (Degree)      Raw (dBuV)      Antenna Factor (dB/m)      Pre- Factor (dB/m)      Correction Factor (dB/m)        2483.50      44.82      PK      74.00      -29.18      1      191      50.54      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72         Frequenc						•					-		
2390.00      29.63      AV      54.00      -24.37      1      103      34.94      27.49      3.32      36.12      -5.31        Frequency(MHz):      2462      Polarity:      HORIZONTAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Angle (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Pre- reator (dB/m)      Correction Factor (dB/m)        2483.50      44.82      PK      74.00      -29.18      1      191      50.54      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        Frequency(MHz):      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Pre- factor (dB/m)      Cor	2300.00		· ·	74.00	-22.18	, ,	· • /	, ,	、 ,	、 /		. ,	
Frequency (MHz)Emission Level (dBuV/m)Limit (dBuV/m)Margin (dB)Antenna Height (dB)Raw Antenna Height (m)Antenna (dBuV)Raw (dBuV)Antenna Factor (dBuV)Correction Factor (dBwV)2483.5044.82PK74.00-29.18119150.5427.453.3836.55-5.722483.5033.62AV54.00-20.38119139.3427.453.3836.55-5.72Frequency(MHz):Z462Polarity:VerricalFrequency (MHz)Emission Level (dBuV/m)Limit (dBuV/m)Margin (dB)Antenna Height (dB)Table Angle (dB)Raw ValueAntenna Factor (dBuV)Cable Pre- Correction Factor (dB/m)2483.5049.13PK74.00-24.87115954.8527.453.3836.55-5.72													
Frequency (MHz)Emission Level (dBuV/m)Limit (dBuV/m)Margin (dB)Antenna Height (dB)Table Angle (m)Raw Value (dBuV)Antenna Factor (dBuV)Cable Factor (dB/m)Pre- Factor (dB/m)Correction Factor (dB/m)2483.5044.82PK74.00-29.18119150.5427.453.3836.55-5.722483.5033.62AV54.00-20.38119139.3427.453.3836.55-5.72Frequency (MHz)Emission Level (dBuV/m)Limit (dB)Margin (dB)Antenna Height (dB)Table Angle (MB)Raw Value (dBuV)Antenna Factor (dB/m)Pre- (dB/m)Correction Factor (dB/m)2483.5049.13PK74.00-24.87115954.8527.453.3836.55-5.72													
Frequency (MHz)      Level (dBuV/m)      Limit (dBuV/m)      Imargin (dB)      Height (m)      Angle (Degree)      Value (dBuV)      Factor (dB/m)      Factor (dB)      amplifi er      Factor (dB/m)        2483.50      44.82      PK      74.00      -29.18      1      191      50.54      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Pre- (dB/m)      Correction Factor (dB/m)        2483.50      49.13      PK      74.00      -24.87      1      159      54.85      27.45      3.38      36.55      -5.72			sion			Antenna	Table	-	Antenna	Cable	Pre-	Correction	
2483.50      44.82      PK      74.00      -29.18      1      191      50.54      27.45      3.38      36.55      -5.72        2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        Frequency(MHz):      2462      Polarity:      VERTICAL        Frequency(MHz):      2462      Polarity:      VERTICAL        Frequency(MHz):      2462      Polarity:      VERTICAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Degree)      Raw Value (dBuV)      Antenna Factor (dBm)      Pre- (dB/m)      Correction Factor (dB/m)      Factor (dB/m)        2483.50      49.13      PK      74.00      -24.87      1      159      54.85      27.45      3.38      36.55      -5.72							Angle						
2483.50      33.62      AV      54.00      -20.38      1      191      39.34      27.45      3.38      36.55      -5.72        Frequency(MHz):      2462      Polarity:      VERTICAL        Frequency (MHz)      Emission Level (dBuV/m)      Limit (dBuV/m)      Margin (dB)      Antenna Height (m)      Table Angle (Degree)      Raw Value (dBuV)      Antenna Factor (dB/m)      Pre- Factor (dB/m)      Correction Factor (dB/m)        2483.50      49.13      PK      74.00      -24.87      1      159      54.85      27.45      3.38      36.55      -5.72	. ,		,	, ,		(m)		, ,	· · ·	、 ,		. ,	
Frequency(MHz):2462Polarity:VERTICALFrequency (MHz)Emission Level (dBuV/m)Limit (dBuV/m)Margin (dB)Antenna Height (dB)Table Angle (m)Raw Value (dBuV)Antenna Factor (dBuV)Raw Factor (dBuV)Antenna Factor (dBuV)Correction Factor (dB/m)2483.5049.13PK74.00-24.87115954.8527.453.3836.55-5.72						-							
Frequency (MHz)Emission Level (dBuV/m)Limit (dBuV/m)Margin (dB)Antenna Height (dB)Table Angle (Degree)Raw Value (dBuV)Antenna Factor (dBuV)Cable Factor (dB,m)Pre- amplifi (dB,m)Correction Factor (dB,m)2483.5049.13PK74.00-24.87115954.8527.453.3836.55-5.72				54.00		1	191		27.45	3.38			
Frequency (MHz)Level (dBuV/m)Limit (dBuV/m)Margin (dB)Height (dB)Angle (Degree)Value (dBuV)Factor (dBuV)Factor (dB,m)Factor (dB,m)Factor (dB,m)2483.5049.13PK74.00-24.87115954.8527.453.3836.55-5.72	Frequenc				2462	1.		-	1				
(MHZ)      (dBuV/m)      (dB)      (m)      (Degree)      (dBuV)      (dB/m)      (dB)      er      (dB/m)        2483.50      49.13      PK      74.00      -24.87      1      159      54.85      27.45      3.38      36.55      -5.72	Frequency			Limit	Margin								
2483.50 49.13 PK 74.00 -24.87 1 159 54.85 27.45 3.38 36.55 -5.72	(MHz)	Level		(dBuV/m)	(dB)	-	-						
	2483.50		,	74.00	-24.87	, ,	,	, ,	· · ·	、 /		. ,	
		30.04	AV	54.00	-23.96	1	159	35.76	27.45	3.38	36.55	-5.72	

802.11n HT20											
Frequency(MHz):				2412		Polarity:			HORIZONTAL		
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	45.99	ΡK	74.00	-28.01	1	118	51.30	27.49	3.32	36.12	-5.31
2390.00	34.92	AV	54.00	-19.08	1	118	40.23	27.49	3.32	36.12	-5.31
Frequenc	y(MHz):			2412			Polarity:			VERTI	CAL
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	49.35	PK	74.00	-24.65	1	223	54.66	27.49	3.32	36.12	-5.31
2390.00	30.71	AV	54.00	-23.29	1	223	36.02	27.49	3.32	36.12	-5.31
Frequenc	Frequency(MHz):			2462		Polarity:			HORIZONTAL		
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	46.07	ΡK	74.00	-27.93	1	321	51.79	27.45	3.38	36.55	-5.72
2483.50	33.52	AV	54.00	-20.48	1	321	39.24	27.45	3.38	36.55	-5.72
Frequenc	Frequency(MHz): 2462		Polarity: VERTICAL					CAL			
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	49.91	PK	74.00	-24.09	1	201	55.63	27.45	3.38	36.55	-5.72
2483.50	29.26	AV	54.00	-24.74	1	201	34.98	27.45	3.38	36.55	-5.72

# 802.11n HT20

#### 802.11n HT40

Frequency(MHz):		2422			Polarity:			HORIZONTAL			
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)		Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	46.88	PK	74.00	-27.12	1	157	52.19	27.49	3.32	36.12	-5.31
2390.00	34.30	AV	54.00	-19.70	1	157	39.61	27.49	3.32	36.12	-5.31
Frequenc	y(MHz):			2422			Polarity:	1		VERTI	CAL
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)		Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2390.00	50.76	PK	74.00	-23.24	1	281	56.07	27.49	3.32	36.12	-5.31
2390.00	31.40	AV	54.00	-22.60	1	281	36.71	27.49	3.32	36.12	-5.31
Frequenc	y(MHz):		2452			Polarity:			HORIZONTAL		
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)		Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	45.75	ΡK	74.00	-28.25	1	243	51.47	27.45	3.38	36.55	-5.72
2483.50	33.57	AV	54.00	-20.43	1	243	39.29	27.45	3.38	36.55	-5.72
Frequenc	Frequency(MHz): 2452		Polarity: VERTICA				CAL				
Frequency (MHz)	Emiss Lev (dBu\	el	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)		Cable Factor (dB)	Pre- amplifi er	Correction Factor (dB/m)
2483.50	49.37	PK	74.00	-24.63	1	187	55.09	27.45	3.38	36.55	-5.72
2483.50	30.04	AV	54.00	-23.96	1	187	35.76	27.45	3.38	36.55	-5.72

# 4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix A.4.

#### 4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix A.5.

# 4.7. 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 Internal Aantenna, through the buckle stretched out, The directional gains of antenna used for transmitting is 3.80dBi.

#### Reference to the Internal photos.

# 5. TEST SETUP PHOTOS OF THE EUT

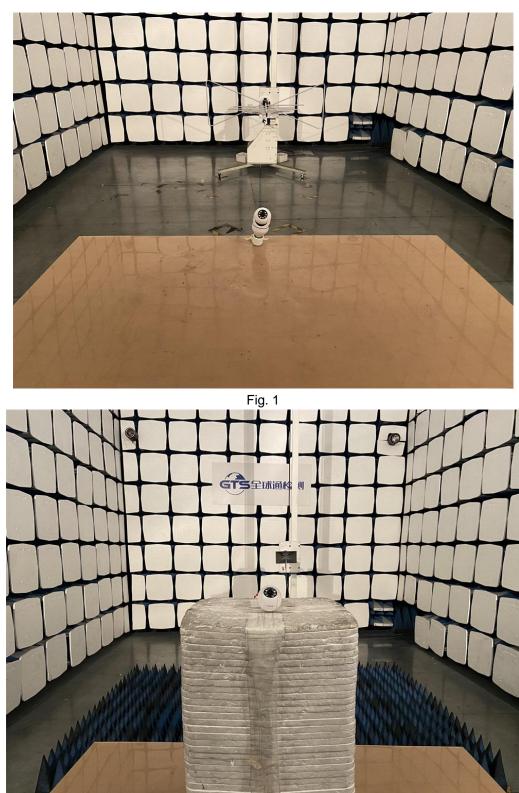


Photo of Radiated Emissions Measurement



Photo of Conducted Emission Measurement

# 6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT



Fig. 1



Fig. 2

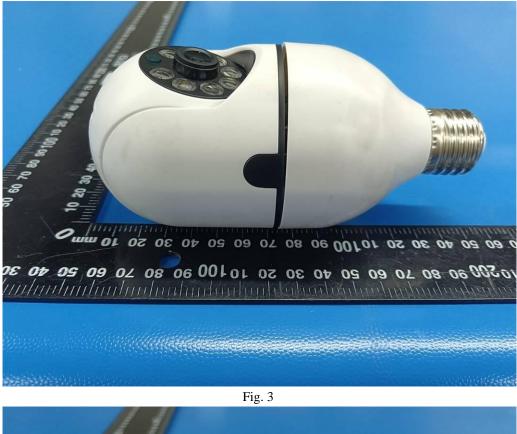
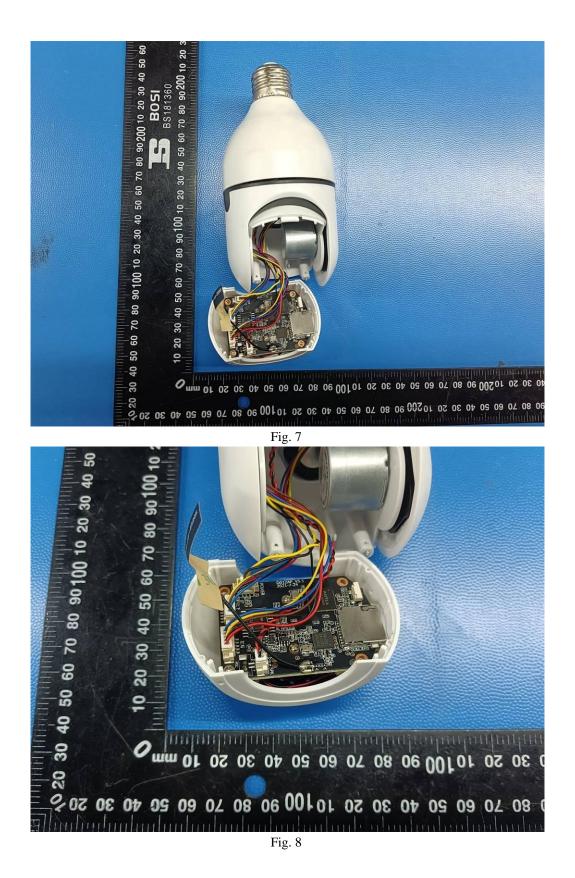


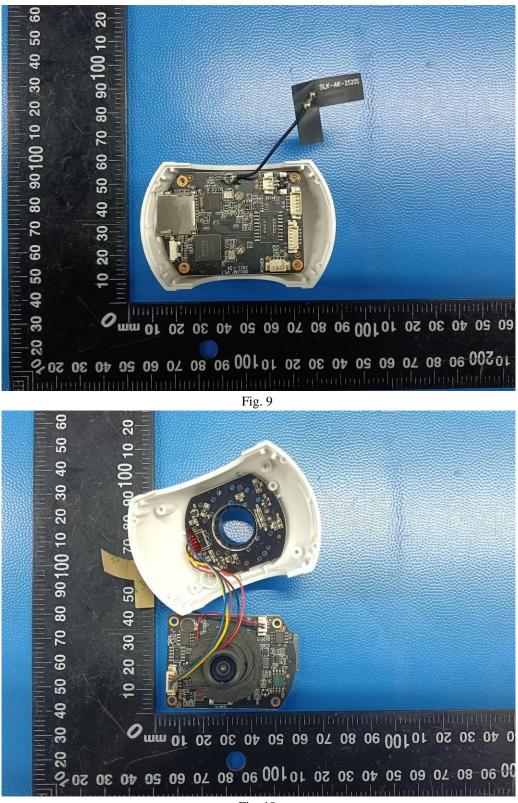


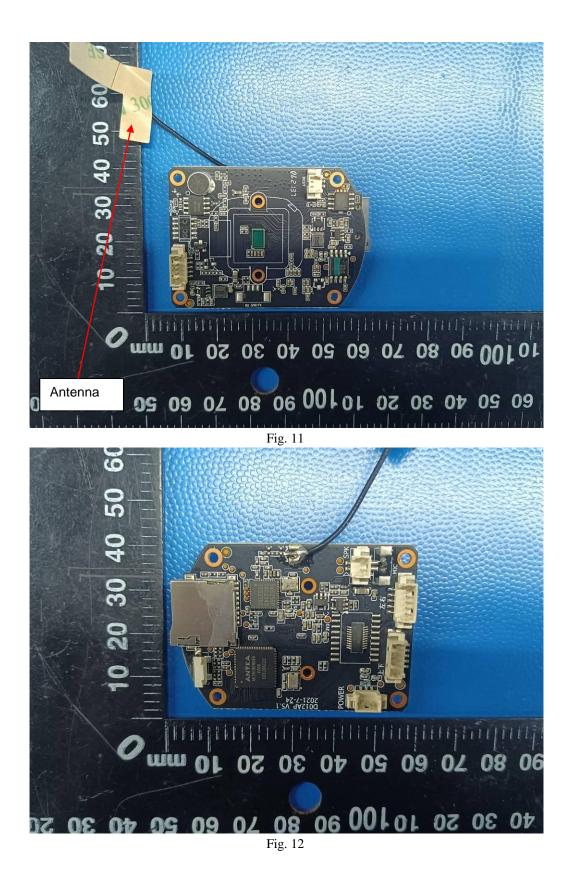


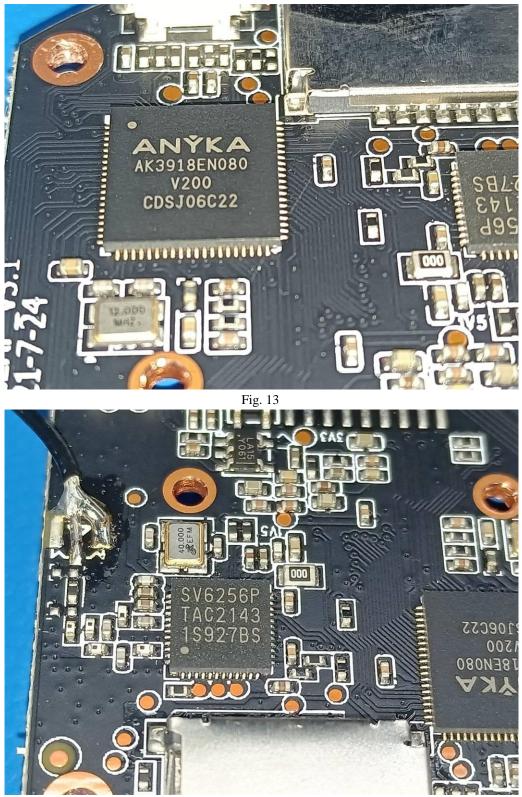


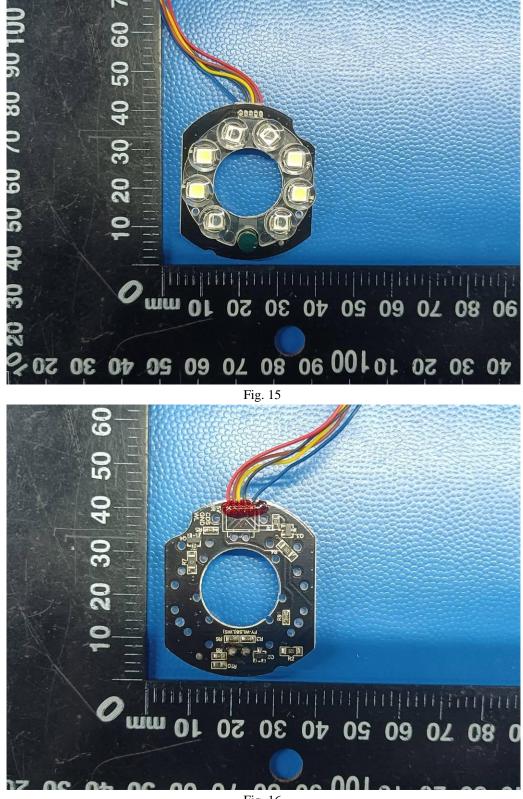
Fig. 6











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