

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China Tel: +86-755- 27521059 Fax: +86-755- 27521011 Http://www.sz-ctc.org.cn

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1601	17			

Report No. CTC20210023E12

FCC ID-----: 2APPZ-I56A

Applicant-----: Fanvil Technology Co., Ltd

Address...... 10/F Block A, Dualshine Global Science Innovation Center,

Honglang North 2nd Road, Bao'an District, Shenzhen, China

Manufacturer Fanvil Technology Co., Ltd

Address...... 10/F Block A, Dualshine Global Science Innovation Center,

Honglang North 2nd Road, Bao'an District, Shenzhen, China

Product Name: Indoor Station

Trade Mark------ Fanvil

Model/Type reference·····: i56A Listed Model(s) ······ NA

Standard-----: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample...: Jan. 15, 2021

Date of testing...... Jan. 16, 2021 to Jan. 30, 2021

Date of issue..... Feb. 3, 2021

Result..... PASS

Compiled by:

(Printed name+signature) Lucy Lan

lucy low

Supervised by:

(Printed name+signature) Miller Ma

Miller Mo

Approved by:

(Printed name+signature) Walter Chen

Testing Laboratory Name.....: CTC Laboratories, Inc.

Address. 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,

Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247:</u> Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	Feb. 3, 2021	Original

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn





1.3. Test Description

FCC Part 15 Subpart C (15.247)				
Took Hom	Standard Section	Result	To at Euroin and	
Test Item	FCC	Kesuit	Test Engineer	
Antenna Requirement	15.203	Pass	Lucy Lan	
Conducted Emission	15.207	Pass	Jon Huang	
Band Edge Emissions	15.247(d)	Pass	Lucy Lan	
6dB Bandwidth	15.247(a)(2)	Pass	Lucy Lan	
Conducted Max Output Power	15.247(b)(3)	Pass	Lucy Lan	
Power Spectral Density	15.247(e)	Pass	Lucy Lan	
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	Lucy Lan	

Note: The measurement uncertainty is not included in the test result.





1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

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

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Indus try Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (F CC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

1.5. 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 CTC Laboratories, Inc. 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.

Below is the best measurement capability for CTC Laboratories, Inc.





Test Items Measurement Uncertainty Notes Transmitter power conducted 0.42 dB (1)2.14 dB Transmitter power Radiated (1) Conducted spurious emissions 9kHz~40GHz 1.60 dB (1) Radiated spurious emissions 9kHz~40GHz 2.20 dB (1) Conducted Emissions 9kHz~30MHz 3.20 dB (1) Radiated Emissions 30~1000MHz 4.70 dB (1)Radiated Emissions 1~18GHz 5.00 dB (1) Radiated Emissions 18~40GHz 5.54 dB (1) Occupied Bandwidth (1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

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

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa





2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Fanvil Technology Co., Ltd
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer:	Fanvil Technology Co., Ltd
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

2.2. General Description of EUT

Product Name:	Indoor Station		
Trade Mark:	Fanvil Fanvi		
Model/Type reference:	i56A		
Listed Model(s):	NA		
Power supply:	12Vdc, 1A (optional) or 48Vdc, 0.3A (POE)		
Hardware version:	N/A		
Software version:	N/A		
WIFI 802.11b/ g/ n(HT20)/ n(HT40)			
Modulation:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK, QPSK, 16QAM, 64QAM)		
Operation frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz		
Channel number:	802.11b/g/n(HT20):11channels 802.11n(HT40):7channels		
Channel separation:	5MHz		
Antenna type:	FPC Antenna		
Antenna gain:	3dBi		

Accreditation Administration of the People's Republic of China: yz.cnca.cn





2.3. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40)

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	HT-MCS0
802.11n(HT40)	HT-MCS0

Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.



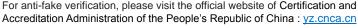
2.4. Measurement Instruments List

Tonsce	Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2021	
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021	
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021	
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021	
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021	
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021	
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021	
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021	
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021	
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/	

Radiate	Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021	
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021	
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021	
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021	
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021	
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021	
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021	
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021	
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021	
10	Antenna Mast	UC	UC3000	N/A	N/A	
11	Turn Table	UC	UC3000	N/A	N/A	
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021	
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX 102	DA1580	Dec. 25, 2021	
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021	
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021	
16	RF Connection Cable	Chengdu E-Microwave			Dec. 25, 2021	
17	High pass filter	Compliance	BSU-6	34202	Dec. 25, 2021	

CTC Laboratories, Inc.









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		Direction systems			
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3		Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conduc	Conducted Emission										
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until						
1	LISN	R&S	ENV216	101112	Dec. 25, 2021						
2	LISN	R&S	ENV216	101113	Dec. 25, 2021						
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021						

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.



3. TEST ITEM AND RESULTS

3.1. Conducted Emission

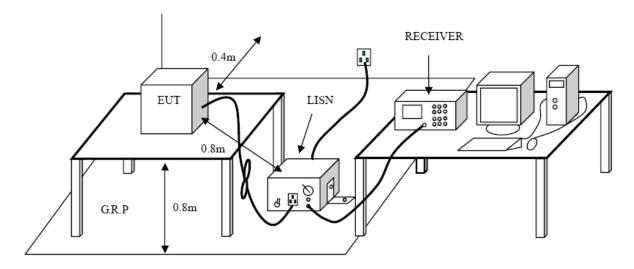
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rongo (MHz)	Limit (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 Configuration



Test Procedure

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

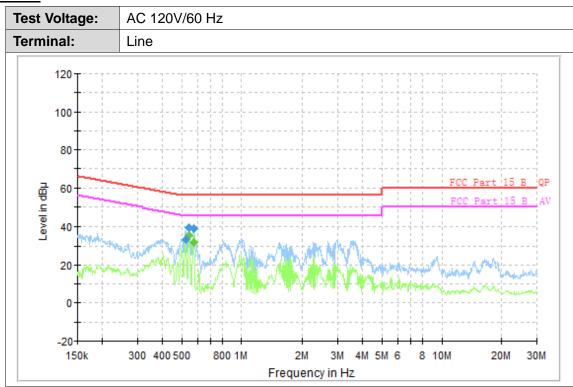




Test Mode:

Please refer to the clause 2.3.

Test Results



Final Measurement Detector 1

-	 Frequency ↓ 	QuasiPeak↓	Meas.	Bandwidth ↓	Filter.	Line.	Corr. ↓	Margin ↓	Limit ↓	Comment.
١	(MHz). ₁	(dB µ V). ₁	Time ↓	(kHz).1			(dB).1	(dB)	(dB µ	
-			(ms).1						V).1	
	0.525380.1	33.5.1	1000.00	9.000.1	On.	L1. ₃	10.4.	22.5.1	56.0.	a
	0.544600.1	39.6.	1000.00	9.000.1	On.	L1. ₁	10.4.	16.4.	56.0.1	.1
	0.573610.1	38.9.1	1000.00	9.000.1	On.1	L1. ₁	10.4.	17.1.	56.0.1	a

Final Measurement Detector 2

-	Frequency ↓ (MHz).₁	Average ↓ (dB µ V).	Meas. Time ↓ (ms).₁	Bandwidth ↓ (kHz).₁	Filter.	Line.	Corr.↓ (dB).₁	Margin ↓ (dB).₁	Limit↓ (dB μ V).₁	Comment. ₁
E	0.523290.1	33.2.1	1000.00	9.000.1	On.	L1. ₁	10.4.	12.8.	46.0.1	.1
•	0.544600.1	35.6.	1000.00	9.000.1	On.	L1. ₁	10.4.	10.4.	46.0.1	a
E	0.573610.1	32.0.1	1000.00	9.000.1	On.1	L1. ₁	10.4.	14.0.	46.0.1	a

20M

30M

8 10M



Test Voltage: AC 120V/60 Hz

Terminal: Neutral

FCC Part 15 B QP
FCC Part 15 B AV

Final Measurement Detector 1-

300 400 500

800 1M

20

150k

				•					
 Frequency ↓ 	QuasiPeak↓	Meas.	Bandwidth ↓	Filter.	Line.	Corr. ↓	Margin ↓	Limit ↓	Comment.
(MHz). ₁	(dB µ V).₁	Time ↓	(kHz).1			(dB).1	(dB).1	(dB μ	
		(ms).1						V).1	
 0.538120.₁ 	32.8.1	1000.00	9.000.1	On.	N _a	10.7.	23.2.	56.0.1	a
 0.573610.1 	37.7.1	1000.00	9.000.1	On.1	N _a	10.7.	18.3.	56.0.1	a
 2.843400.1 	32.5.1	1000.00	9.000.1	On.	N _{.1}	10.7.	23.5.1	56.0.1	a

Frequency in Hz

3M 4M 5M 6

Final Measurement Detector 2

Frequency ↓ (MHz).,	Average ↓ (dB µ V).,	Meas. Time ↓ (ms).	Bandwidth ↓ (kHz).₁	Filter.	Line.	Corr.↓ (dB).₁	Margin ↓ (dB).₁	Limit↓ (dB μ V).₁	Comment.
 0.540270.1 	24.5.1	1000.00	9.000.1	On.	N. ₃	10.7.1	21.5.	46.0.1	a
 0.573610.1 	25.2.1	1000.00	9.000.1	On.	N. ₃	10.7.1	20.8.	46.0.	a
2.843400.1	15.4.	1000.00	9.000.1	On.	N.1	10.7.	30.6.	46.0.1	a.



3.2. Radiated Emission

Limit

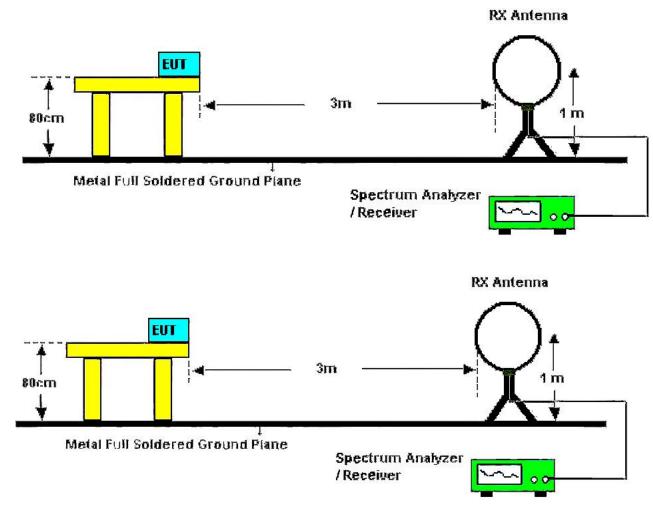
FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Abovo 1 CHz	54.00	Average
Above 1 GHz	74.00	Peak

Conducted Emission limit: The highest point of the operating frequency waveform down 20dB Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration

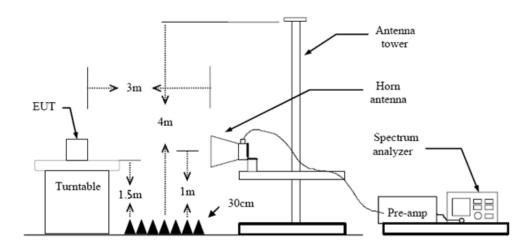


Below 30MHz Test Setup

Below 1000MHz Test Setup

可监督管理委员会





Above 1GHz Test Setup

Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
- Span shall wide enough to fully capture the emission being measured;
- (2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=3MHz RMS detector for Average value.

Test Mode

Please refer to the clause 2.3.

Test Result

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

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

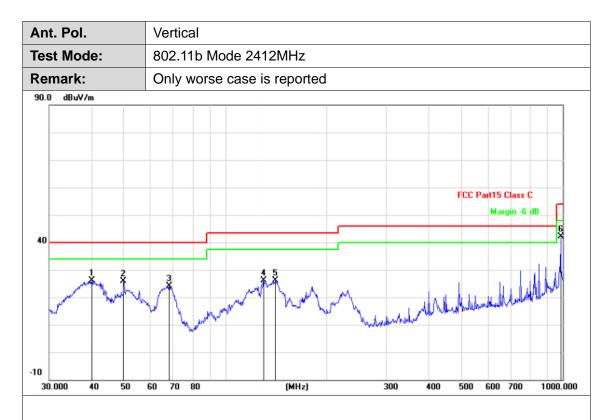
30MHz-1GHz

Ant. I	Pol.	Horizontal							
Test	Mode:	802.11b Mode 2412MHz	302.11b Mode 2412MHz						
Rema	ark:	Only worse case is reported							
90.0	dBuV/m								
-10			FCC Part15 Class C Margin -6 dB						
30.0	00 40 !	60 70 80 (MHz) 300	0 400 500 600 700 1000.00						

N	0.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	40.1347	-17.30	31.89	14.59	40.00	-25.41	QP
	2	69.1140	-20.24	37.96	17.72	40.00	-22.28	QP
	3	180.6488	-19.30	39.31	20.01	43.50	-23.49	QP
	4	223.7333	-20.06	41.86	21.80	46.00	-24.20	QP
	5	400.4318	-15.77	46.28	30.51	46.00	-15.49	QP
	6	750.1082	-10.08	41.20	31.12	46.00	-14.88	QP

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.1347	-17.30	43.54	26.24	40.00	-13.76	QP
2	49.8814	-17.77	43.66	25.89	40.00	-14.11	QP
3	68.1514	-20.05	44.28	24.23	40.00	-15.77	QP
4	129.9226	-18.49	44.62	26.13	43.50	-17.37	QP
5	140.8351	-17.57	43.80	26.23	43.50	-17.27	QP
6	986.0717	-6.97	49.06	42.09	54.00	-11.91	QP

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

21000.00

26000.00 MHz

Adobe 1GHz

Ant. Pol.	Horizontal	Horizontal						
Test Mode:	TX B Mode 2412MF	łz						
Remark:	No report for the emprescribed limit.	ission which more than 10 dB below the						
110.0 dBuV/m								
		FCC Part15 Class C 3M Above-1G Peak						
60		FCC Part15 Class C 3M Above-1G AV						
		FLL Part 5 Class C 3M Above-16 AV						
	*							
	2							
	*							

No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4823.793	-2.76	50.36	47.60	74.00	-26.40	peak
2	4823.846	-2.76	38.32	35.56	54.00	-18.44	AVG

13500.00

16000.00

18500.00

Remarks:

10.0

1000.000 3500.00

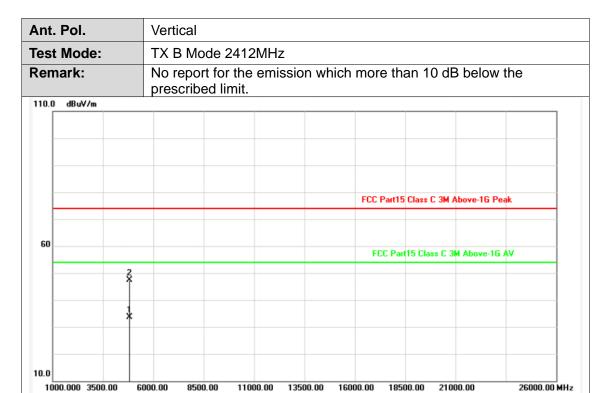
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

8500.00

6000.00

11000.00





No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	4823.885	-2.76	36.31	33.55	54.00	-20.45	AVG
2	4824.111	-2.76	50.02	47.26	74.00	-26.74	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

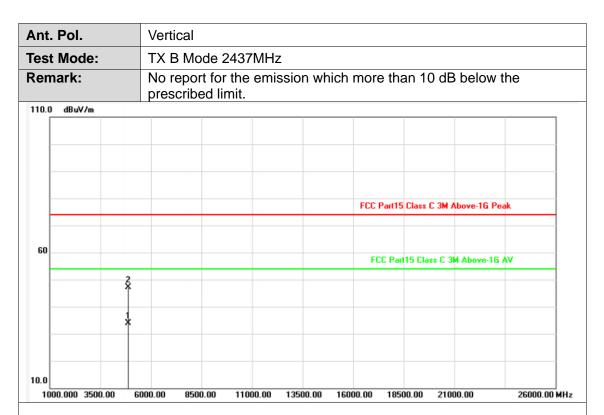


Ant. Pol. Horizontal **Test Mode:** TX B Mode 2437MHz No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak 60 FCC Part15 Class C 3M Above-1G AV 1000.000 3500.00 6000.00 8500.00 18500.00 21000.00 26000.00 MHz 11000.00 13500.00 16000.00

No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4873.293	-2.61	49.06	46.45	74.00	-27.55	peak
2	4873.644	-2.61	34.93	32.32	54.00	-21.68	AVG

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.029	-2.61	36.53	33.92	54.00	-20.08	AVG
2	4874.466	-2.61	49.78	47.17	74.00	-26.83	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Accreditation Administration of the People's Republic of China: yz.cnca.cn

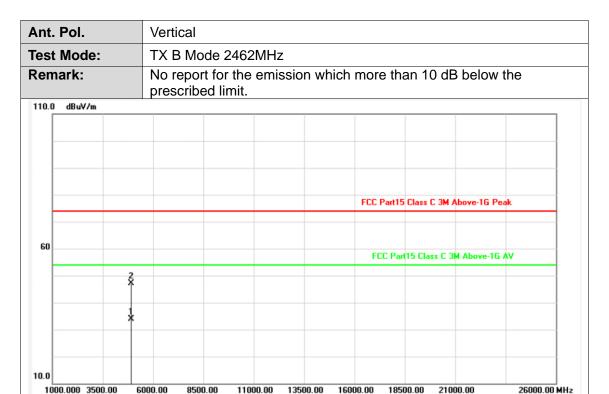


Ant. Pol. Horizontal **Test Mode:** TX B Mode 2462MHz No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak 60 FCC Part15 Class C 3M Above-16 AV 1000.000 3500.00 6000.00 21000.00 26000.00 MHz 8500.00 11000.00 13500.00 16000.00 18500.00

No.	Frequency (MHz)	I		Level (dBuV/m)		Margin (dB)	Detector
1	4923.548	-2.47	36.00	33.53	54.00	-20.47	AVG
2	4924.212	-2.47	50.00	47.53	74.00	-26.47	peak

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

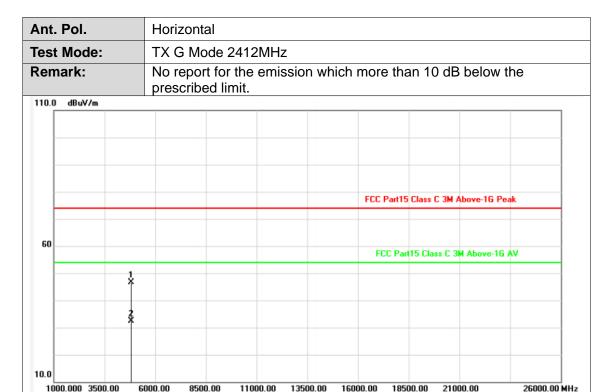




No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4923.885	-2.47	36.28	33.81	54.00	-20.19	AVG
2	4924.072	-2.47	49.55	47.08	74.00	-26.92	peak

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





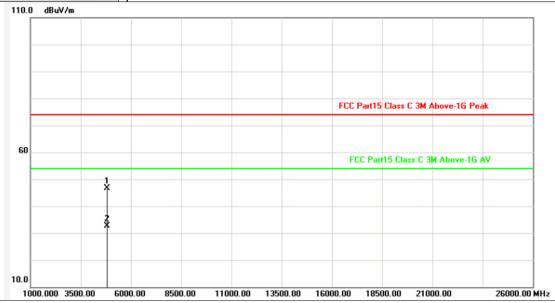
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4825.216	-2.76	49.38	46.62	74.00	-27.38	peak
2	4825.322	-2.76	35.14	32.38	54.00	-21.62	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Vertical **Test Mode:** TX G Mode 2412MHz No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m



No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4823.721	-2.76	49.30	46.54	74.00	-27.46	peak
2	4823.837	-2.76	35.40	32.64	54.00	-21.36	AVG

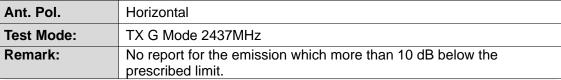
Remarks:

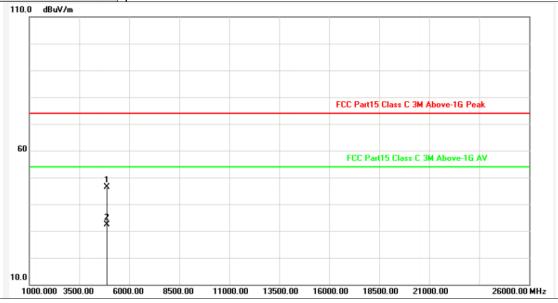
- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn









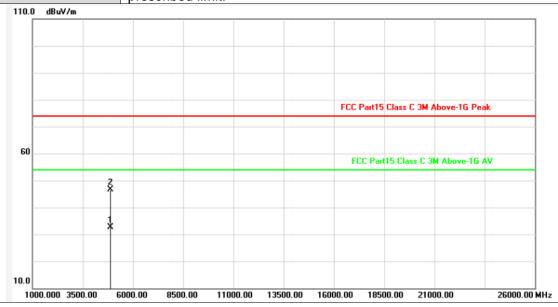
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.077	-2.61	49.09	46.48	74.00	-27.52	peak
2	4873.971	-2.61	35.02	32.41	54.00	-21.59	AVG

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Ant. Pol. Vertical **Test Mode:** TX G Mode 2437MHz No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210023E12



No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4873.644	-2.61	35.17	32.56	54.00	-21.44	AVG
2	4873.726	-2.61	49.15	46.54	74.00	-27.46	peak

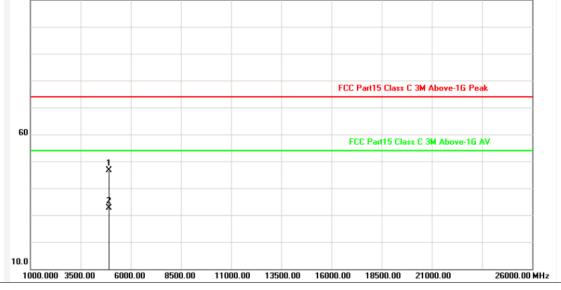
Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

Accreditation Administration of the People's Republic of China: yz.cnca.cn



Ant. Pol. Horizontal **Test Mode:** TX G Mode 2462MHz No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak



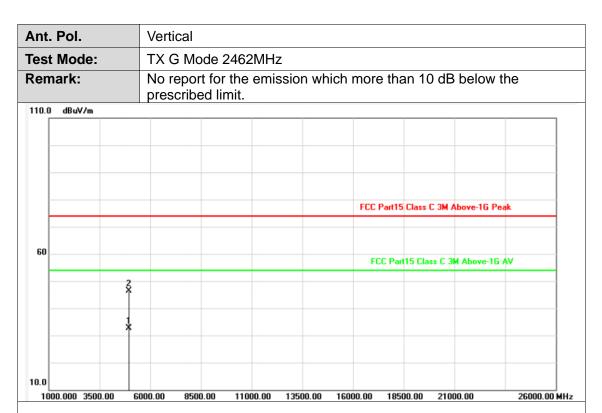
No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4922.572	-2.47	49.07	46.60	74.00	-27.40	peak
2	4923.558	-2.47	35.00	32.53	54.00	-21.47	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4959.264	-2.38	34.94	32.56	54.00	-21.44	AVG
2	4960.923	-2.38	48.82	46.44	74.00	-27.56	peak

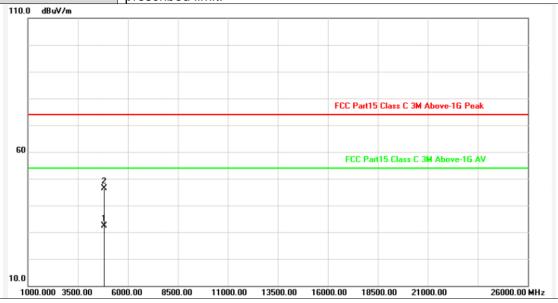
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol. Horizontal **Test Mode:** TX N20 Mode 2412MHz No report for the emission which more than 10 dB below the Remark: prescribed limit.

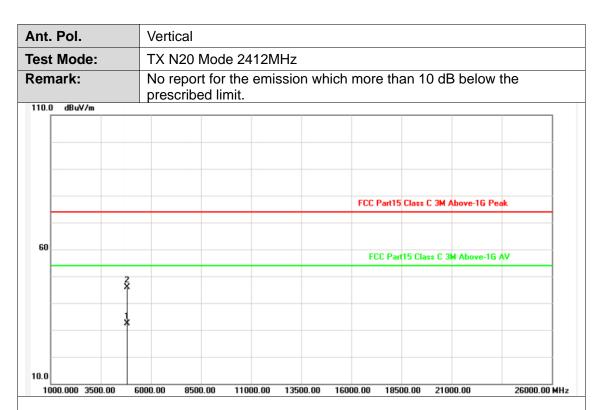
Report No.: CTC20210023E12



No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4823.880	-2.76	35.18	32.42	54.00	-21.58	AVG
2	4824.841	-2.76	49.19	46.43	74.00	-27.57	peak

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



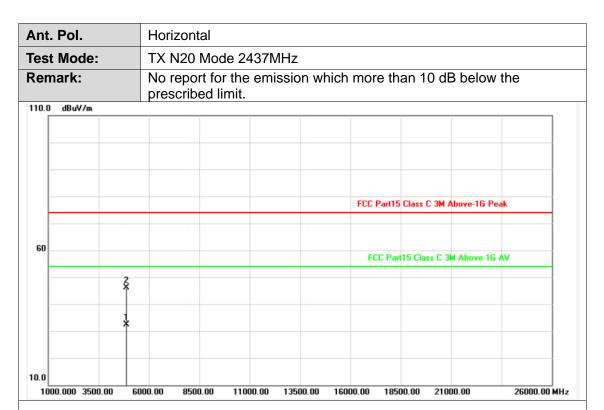


No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4823.620	-2.76	35.24	32.48	54.00	-21.52	AVG
2	4825.394	-2.76	48.70	45.94	74.00	-28.06	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

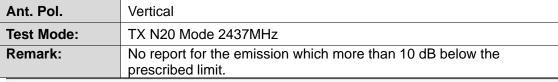


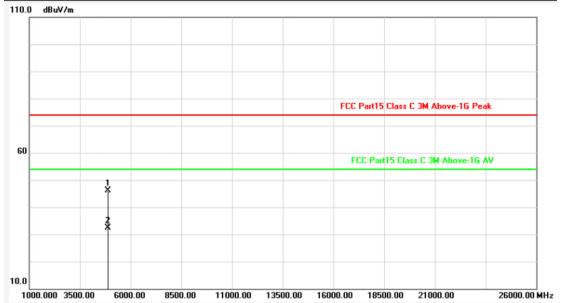


No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4872.923	-2.61	35.04	32.43	54.00	-21.57	AVG
2	4874.019	-2.61	48.71	46.10	74.00	-27.90	peak

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



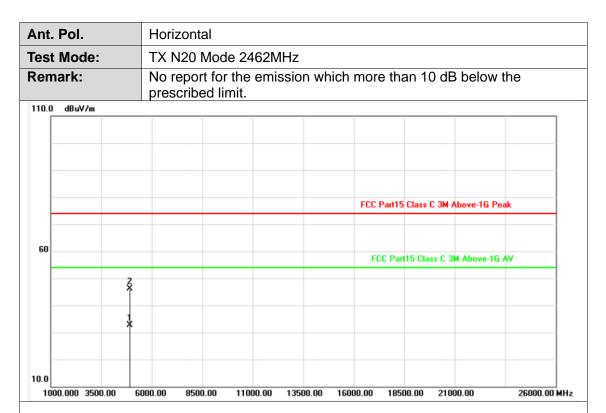




No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4874.019	-2.61	48.71	46.10	74.00	-27.90	peak
2	4874.505	-2.61	35.01	32.40	54.00	-21.60	AVG

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





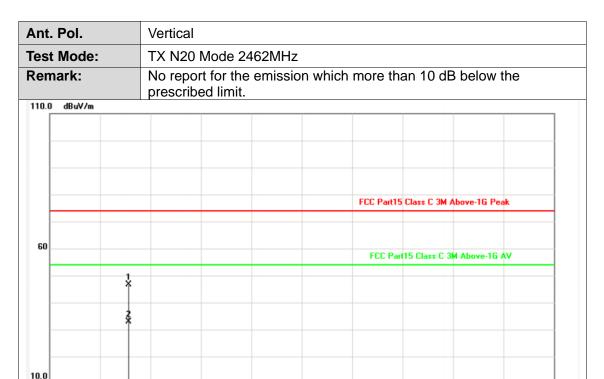
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4923.639	-2.47	35.11	32.64	54.00	-21.36	AVG
2	4923.779	-2.47	48.57	46.10	74.00	-27.90	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

26000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4922.716	-2.47	49.06	46.59	74.00	-27.41	peak
2	4924.990	-2.47	35.25	32.78	54.00	-21.22	AVG

13500.00

16000.00

18500.00

21000.00

Remarks:

1000.000 3500.00

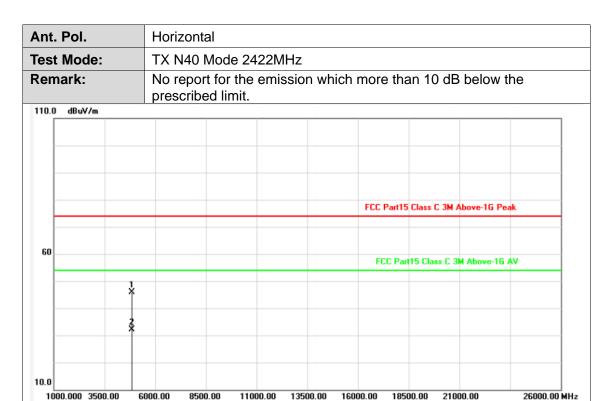
6000.00

8500.00

11000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



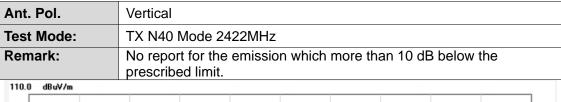


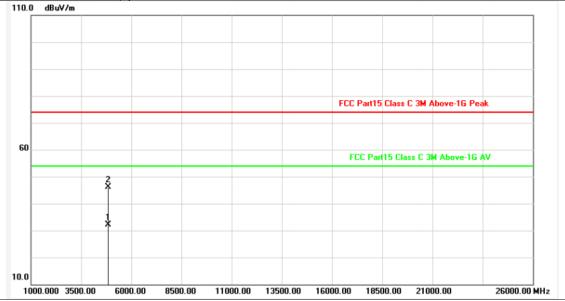
No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)		Margin (dB)	Detector
1	4844.428	-2.70	48.61	45.91	74.00	-28.09	peak
2	4845.313	-2.70	34.86	32.16	54.00	-21.84	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor







No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	4844.582	-2.70	34.90	32.20	54.00	-21.80	AVG
2	4844.813	-2.70	48.91	46.21	74.00	-27.79	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

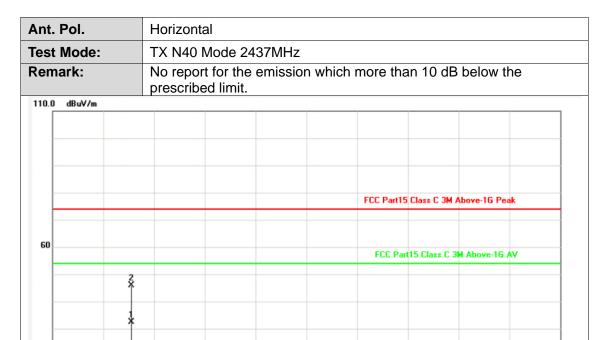
2.Margin value = Level -Limit value

21000.00

18500.00

26000.00 MHz





No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4874.736	-2.61	34.90	32.29	54.00	-21.71	AVG
2	4875.413	-2.61	48.53	45.92	74.00	-28.08	peak

13500.00

16000.00

Remarks:

10.0

1000.000 3500.00

6000.00

8500.00

11000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

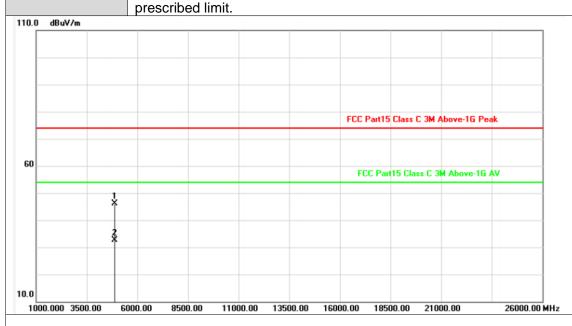


Ant. Pol. Vertical

Test Mode: TX N40 Mode 2437MHz

Remark: No report for the emission which more than 10 dB below the

Report No.: CTC20210023E12



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4873.365	-2.61	48.72	46.11	74.00	-27.89	peak
2	4874.649	-2.61	35.16	32.55	54.00	-21.45	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



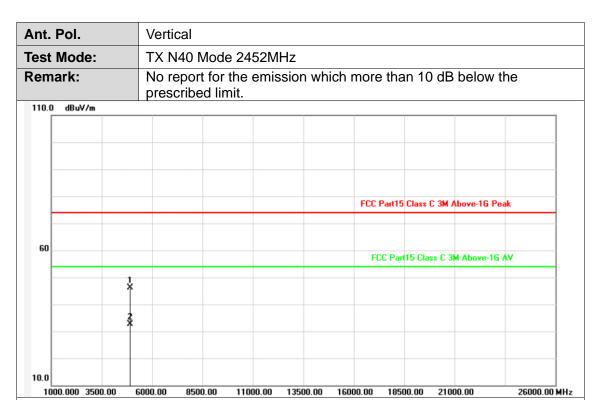
Ant. Pol. Horizontal **Test Mode:** TX N40 Mode 2452MHz No report for the emission which more than 10 dB below the Remark: prescribed limit. 110.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak 60 FCC Part15 Class C 3M Above-1G AV 10.0 1000.000 3500.00 6000.00 8500.00 11000.00 13500.00 16000.00 18500.00 21000.00 26000.00 MHz

No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	4903.159	-2.53	34.94	32.41	54.00	-21.59	AVG
2	4904.111	-2.53	48.97	46.44	74.00	-27.56	peak

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value





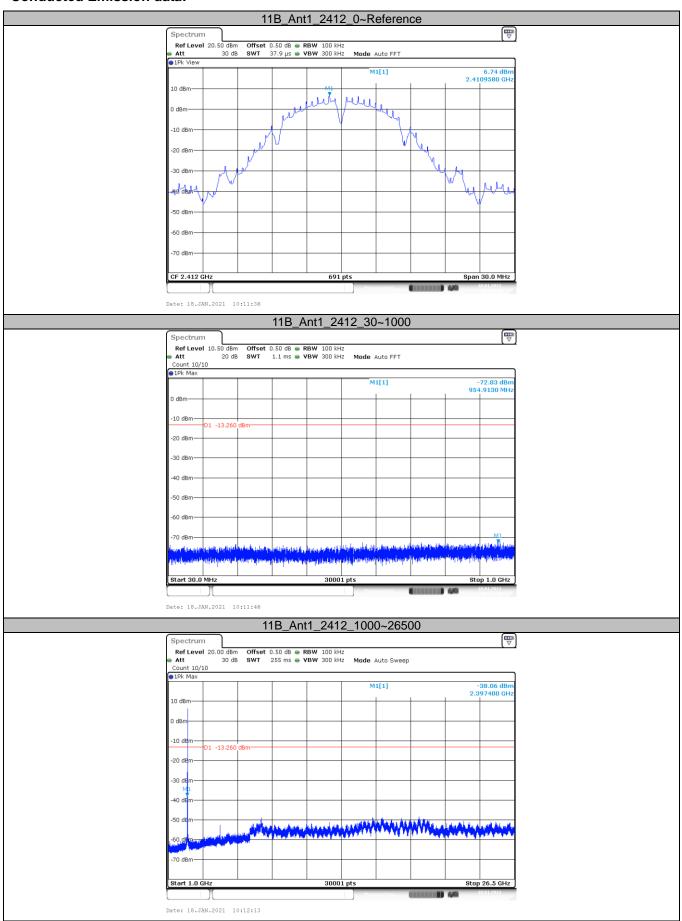
No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	4903.582	-2.53	48.72	46.19	74.00	-27.81	peak
2	4905.034	-2.53	35.09	32.56	54.00	-21.44	AVG

Remarks:

- 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 2.Margin value = Level -Limit value



Conducted Emission data:



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