

### CTC Laboratories, Inc.

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# **TEST REPORT**

Report No...... CTC20210133E16

FCC ID-----: **XUJPADVII** 

Applicant ....:: LAUNCH TECH CO., LTD

Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Address.....

Longgang, Shenzhen, Guangdong, P.R. China

Manufacturer..... LAUNCH TECH CO., LTD

Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Address.....

Longgang, Shenzhen, Guangdong, P.R. China

**Automotive Diagnosis Tool, Automotive intelligent** Product Name .....:

diagnostic tools

Trade Mark .....: LAUNCH

Model/Type reference .....: X-431 PAD VII

Listed Model(s)..... X-431 Throttle III

Standard .....: FCC CFR Title 47 Part 15 Subpart E 15. 407

Date of receipt of test sample...: Feb. 03, 2021

Date of testing.....: Feb. 04, 2021 ~ Mar. 28, 2021

Date of issue..... Mar. 29, 2021

**PASS** Result....:

Compiled by:

Terry Su Miller Ma (Printed name+signature) Terry Su

Supervised by:

(Printed name+signature) Miller Ma

Approved by:

(Printed name+signature) Walter Chen

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

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

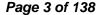
Shenzhen, Guangdong, China

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### 1. TEST SUMMARY

### 1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Part 15, Subpart E(15.407)</u> — for 802.11a/n/ac, the test procedure follows the FCC KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

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RSS-247 Issue 2 February 2017 — Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen — General Requirements for Compliance of Radio Apparatus

### 1.2. Report version

Revised No.	Date of issue	Description
01	Mar. 29, 2021	Original

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: <a href="mailto:yz.cnca.cn">yz.cnca.cn</a>

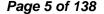


1.3. Test Description

FCC Part 15 Subpart E (15.407) / RSS-247 Issue 2 February 2017						
Test Item	Test r	equire	Result	Test		
rest item	FCC	IC	Result	Engineer		
Antenna Requirement	15.203	1	Pass	Rod Luo		
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Eva Feng		
Band Edge Emissions	15.407(b)	RSS-247 6.2.1.2 RSS-247 6.2.2.2 RSS-247 6.2.4.2	Pass	Rod Luo		
26dB Bandwidth & 99% Bandwidth	15.407(a) (5)	RSS-247 6.2.1.2	Pass	Rod Luo		
6dB Bandwidth (only for UNII-3)	15.407(e)	RSS-247 6.2.4.1	Pass	Rod Luo		
Peak Output Power	15.407(a)	RSS-247 6.2.1.1 RSS-247 6.2.4.1	l Dace			
Power Spectral Density	15.407(a)	RSS-247 6.2	Pass	Rod Luo		
Transmitter Radiated Spurious Emission	15.407(b) &15.209	RSS-Gen 8.9 RSS-247 6.2.1.2 RSS-247 6.2.4.2	Pass	Rod Luo		
Frequency Stability	15.407(g)	1	Pass	Rod Luo		
Dynamic Frequency Selection (DFS)	15.407(h)	RSS-247 6.3	N/A	N/A		

Note: "N/A" is not applicable.

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/IEC17025:2017 General Requirements) f or 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 (FCC) 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.



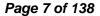
**Test Items Measurement Uncertainty Notes** Transmitter power conducted 0.42 dB (1) Transmitter power Radiated 2.14 dB (1) Conducted spurious emissions 9kHz~40GHz 1.60 dB (1) Radiated spurious emissions 9kHz~40GHz 2.20 dB (1) Conducted Emissions 9kHz~30MHz 3.08 dB (1) Radiated Emissions 30~1000MHz 4.51 dB (1) Radiated Emissions 1~18GHz 5.84 dB (1) Radiated Emissions 18~40GHz 6.12 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

	Temperature	22 °C ~ 28°C
Normal Condition	Relative humidity	50% ~ 65%
Condition	Voltage	The equipment shall be the nominal voltage for which the equipment was designed.
Extreme	Temperature	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer
Condition	Voltage	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer

Normal Condition	T <sub>N</sub> =Normal Temperature	22 °C ~ 28°C
Extreme Condition	T <sub>L</sub> =Lower Temperature	-10 °C
Extreme Condition	T <sub>H</sub> =Higher Temperature	50 °C





2. GENERAL INFORMATION

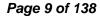
## 2.1. Client Information

Applicant:	LAUNCH TECH CO., LTD
Address:	Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Longgang, Shenzhen, Guangdong, P.R. China
Manufacturer:	LAUNCH TECH CO., LTD
Address:	Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Longgang, Shenzhen, Guangdong, P.R. China



2.2. General Description of EUT

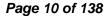
Product Name:	Automotive	Automotive Diagnosis Tool, Automotive intelligent diagnostic tools						
Trade Mark:	LAUNCH	LAUNCH						
Model/Type reference:	X-431 PAD	X-431 PAD VII						
Listed Model(s):	X-431 Thrott	tle III						
Mode different:			cal in the same F s product name					
Power supply:		om AC/DC Adar 9400mAh Li-io						
Adapter 1 Model:	FJ-SW2017	1204000D I0V~ 50/60Hz 1						
Adapter 2 Model:	PSY1204000 Input:100-240V~ 50/60Hz 1.3A Output: 12Vdc/4A							
Hardware version:	PL280_V2.0							
Software version:	V1.0.5.2021	0323						
Antenna type:	FPC Antenn	a						
Antenna gain:	U-NII-1: 2.76 U-NII-3: 5.56							
Technical index for 5G WIFI								
Operation Band:	⊠U-NII-1	□U-NII-2A	□U-NII-2C		⊠U-NII-	-3		
Operation Fraguency Bango:	U-NII-1:	5150MHz~52	50MHz					
Operation Frequency Range:	U-NII-3:	5725MHz~58	50MHz					
	802.11a	⊠ 20MHz						
Support bandwidth:	802.11n	⊠ 20MHz	⊠ 40MHz					
	802.11ac							
Modulation:	802.11a: OFDM (BIT/SK, QPSK, BPSK, 16QAM) 802.11n: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM) 802.11ac: OFDM (BIT/SK, QPSK, BPSK, 16QAM, 64QAM, 256QAM)							
Bit Rate of Transmitter:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300Mbps 802.11ac: at most 866.7 Mbps							





2.3. Accessory Equipment information

Equipment Information						
Name	Model	Model S/N				
1	1	1	1			
1	1	1	1			
Cable Information						
Name	Shielded Type	Ferrite Core	Length			
1	1	1	1			
Test Software Information						
Name	1	1	1			
Engineering mode	1	1	1			





## 2.4. Operation state

Operation Frequency List:

	20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Band (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	36	5180	20 5100	5190		
11 NIII 1	40	5200	38 5190		42	5210
U-NII-1	44	5220	46	<b>E</b> 220	42	5210
	48	5240	46 5230			
	149	5745	151	5755		5775
	153	5765	151	5755		
U-NII-3	157	5785			155 5795	
	161	5805	159	5795		
	165	5825				



#### Test channel is below:

0	T (	20MHz		40MHz		80MHz	
Operating Band	Test Channel	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	CH∟	36	5180	38	5190	1	1
U-NII-1	CH <sub>M</sub>	40	5200	/	/	42	5210
	СНн	48	5240	46	5230	1	1
	CH∟	149	5745	151	5755	1	1
U-NII-3	CH <sub>M</sub>	157	5785	/	1	155	5775
	CH <sub>H</sub>	165	5825	159	5795	1	/

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#### **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)
802.11a	6Mbps
802.11n(HT20)/ 802.11n(HT40)	HT-MCS0
802.11ac(VHT20)/ 802.11ac(VHT40)	VHT-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.

### For DFS test items

The EUT has been tested under test mode condition. The Applicant provides software to control the EUT for staying in DFS mode for testing.

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



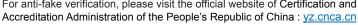


**Measurement Instruments List** 

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	1	Dec. 25, 2021			
11	300328 v2.2.2 test system	TONSCEND	v2.6	1	1			

Radiate	ed Emission and Transmi	tter spurious emissior	าร		
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









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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

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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

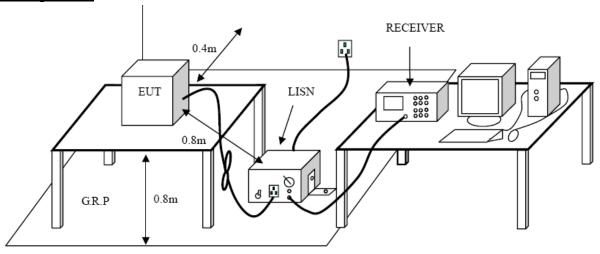
### **Limit**

### FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS – Gen 8.8:

Fraguency range (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				

<sup>\*</sup> Decreases with the logarithm of the frequency.

### **Test Configuration**

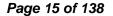


### **Test Procedure**

- 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 50 ohm /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**

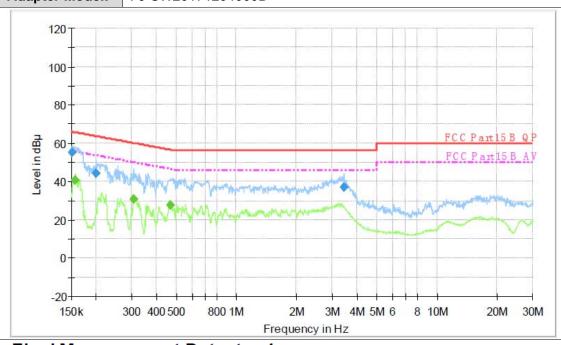
Please refer to the clause 2.4.



Test Voltage: AC 120V/60 Hz

Terminal: Line

Adapter Model: FJ-SW20171204000D

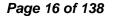


### **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
ſ	0.151200	55.2	1000.00	9.000	On	L1	10.1	10.7	65.9	
Ī	0.199150	44.1	1000.00	9.000	On	L1	10.1	19.5	63.6	
	3.430220	36.9	1000.00	9.000	On	L1	10.2	19.1	56.0	

### Final Measurement Detector 2

	Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Ì	0.157360	40.9	1000.00	9.000	On	L1	10.1	14.7	55.6	
Ī	0.306500	30.7	1000.00	9.000	On	L1	10.1	19.4	50.1	
Ī	0.466090	27.9	1000.00	9.000	On	L1	10.1	18.7	46.6	



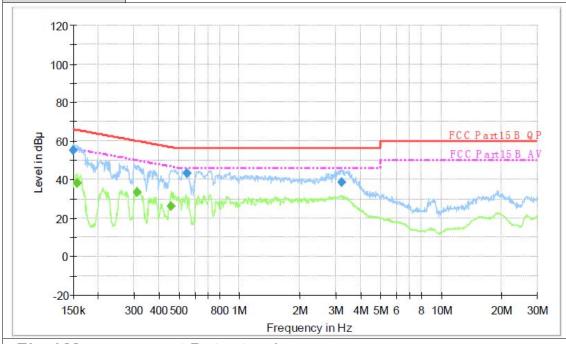


Test Voltage: AC 120V/60 Hz

Terminal: Neutral

Adapter Model: FJ-SW20171204000D

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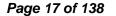


### **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Г	0.150000	55.0	1000.00	9.000	On	N	10.1	11.0	66.0	
Г	0.546780	43.1	1000.00	9.000	On	N	10.1	12.9	56.0	
	3.205160	38.6	1000.00	9.000	On	N	10.2	17.4	56.0	

### Final Measurement Detector 2

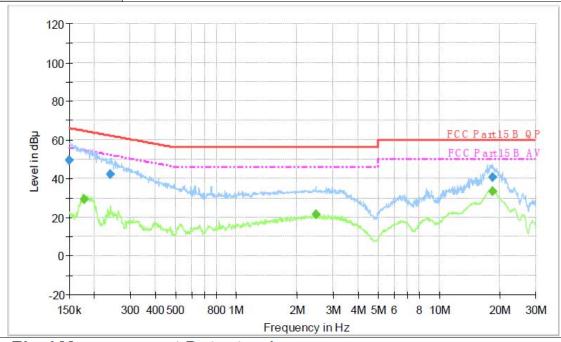
	Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
ı	0.156110	38.2	1000.00	9.000	On	N	10.1	17.5	55.7	
	0.310190	33.4	1000.00	9.000	On	N	10.1	16.6	50.0	
	0.458700	26.0	1000.00	9.000	On	N	10.1	20.7	46.7	





Test Voltage: AC 120V/60 Hz
Terminal: Line
Adapter Model: PSY1204000

Report No.: CTC20210133E16

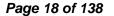


### **Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.150600	49.4	1000.00	9.000	On	L1	10.1	16.6	66.0	
0.240250	42.0	1000.00	9.000	On	L1	10.1	20.1	62.1	
18.343480	40.6	1000.00	9.000	On	L1	10.6	19.4	60.0	

### Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.178800	29.5	1000.00	9.000	On	L1	10.1	25.0	54.5	
2.462770	21.5	1000.00	9.000	On	L1	10.2	24.5	46.0	
18.416860	33.6	1000.00	9.000	On	L1	10.6	16.4	50.0	



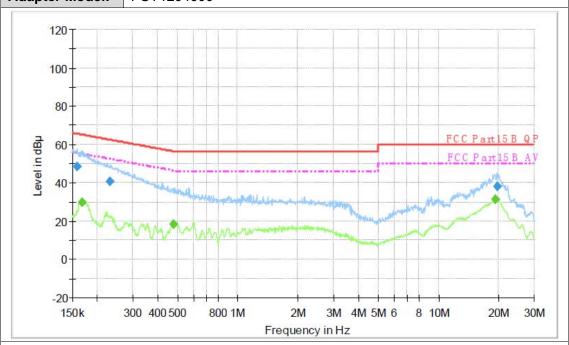


Test Voltage: AC 120V/60 Hz

Terminal: Neutral

Adapter Model: PSY1204000

Report No.: CTC20210133E16



## **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
	0.157990	48.3	1000.00	9.000	On	N	10.1	17.3	65.6	
Ī	0.231770	40.7	1000.00	9.000	On	N	10.1	21.7	62.4	
	19.631560	38.3	1000.00	9.000	On	N	10.6	21.7	60.0	

### Final Measurement Detector 2

	equency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0	).167740	29.7	1000.00	9.000	On	N	10.1	25.4	55.1	
0	).481210	18.5	1000.00	9.000	On	N	10.1	27.8	46.3	
19	9.166930	31.4	1000.00	9.000	On	N	10.6	18.6	50.0	



### 3.2. Radiated Emission

### Limit

### FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS-Gen 8.9

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 CH7	54.00	Average
Above 1 GHz	74.00	Peak

#### Note:

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

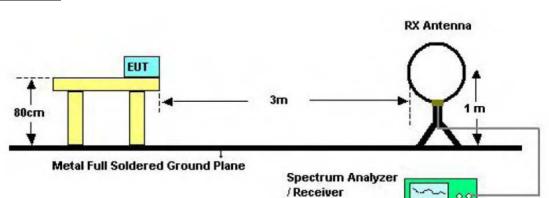
### Limits of unwanted emission out of the restricted bands

### FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

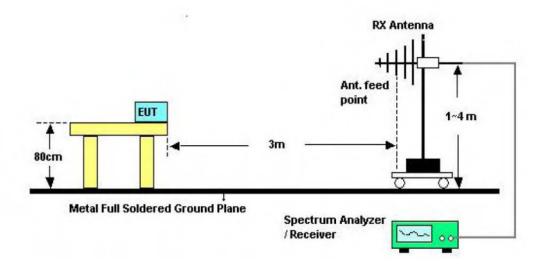
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)		
5150~5250	-27	68.2		
5250~5350	-27	68.2		
5470~5725	-27	68.2		
	-27(Note 2)	68.2		
E70E . E00E	10(Note 2)	105.2		
5725~5825	15.6(Note 2)	110.8		
	27(Note 2)	122.2		

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:  $E = \frac{1000000\sqrt{30P}}{3}$  uV/m, where P is the eirp (Watts)

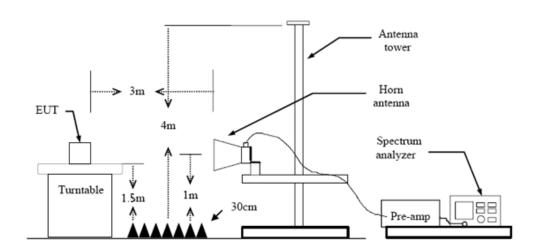
2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.



Below 30MHz Test Setup



Below 1000MHz Test Setup



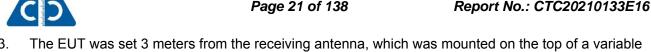
Above 1GHz Test Setup

### **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.

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- height antenna tower. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna 4.
- 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
  - (1) 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≥1/T Peak detector for Average value.

Note 1: For the 1/T& Duty Cycle please refer to clause Duty Cycle.

### **Test Mode**

Please refer to the clause 2.4.

### **Test Result**

### 9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

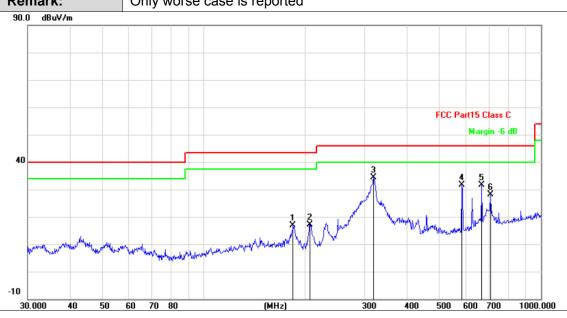
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





Ant. Pol.: Horizontal TX 802.11a Mode 5180MHz (U-NII-1) **Test Mode:** 

Remark: Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	183.8440	-19.57	36.55	16.98	43.50	-26.52	QP
2	206.3976	-20.67	37.83	17.16	43.50	-26.34	QP
3	318.8170	-17.44	51.86	34.42	46.00	-11.58	QP
4	582.7425	-12.53	44.14	31.61	46.00	-14.39	QP
5	668.1423	-11.24	42.81	31.57	46.00	-14.43	QP
6	709.1823	-10.63	38.83	28.20	46.00	-17.80	QP

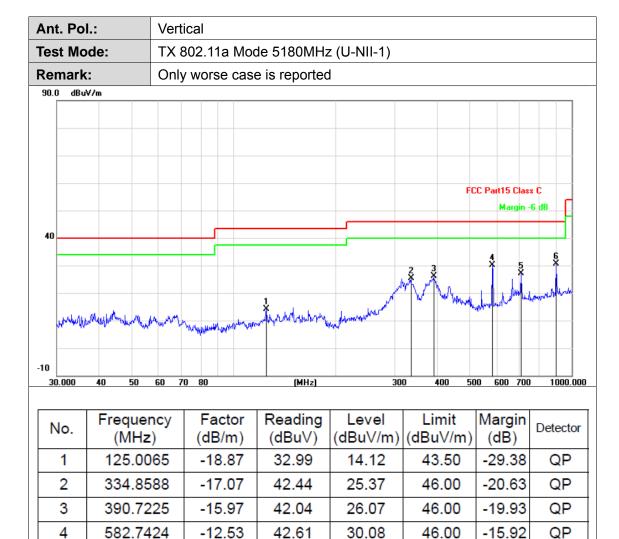
### Remarks:

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

2.Margin value = Level -Limit value







### Remarks:

5

6

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

37.71

38.98

27.08

30.70

46.00

46.00

-18.92

-15.30

QΡ

QP

-10.63

-8.28

2.Margin value = Level -Limit value

709.1821

900.1474

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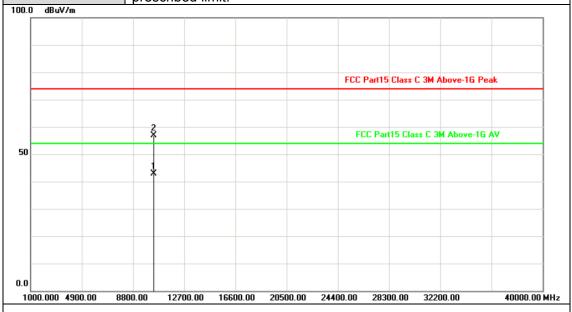


Ant. Pol.: Horizontal

Test Mode: TX 802.11a Mode 5180MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	10360.417	6.64	36.30	42.94	54.00	-11.06	AVG
2	10360.667	6.64	50.33	56.97	74.00	-17.03	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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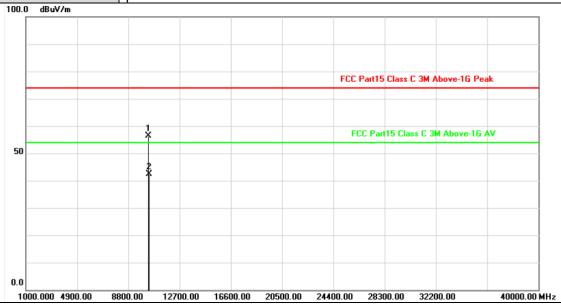


Ant. Pol.: Vertical

Test Mode: TX 802.11a Mode 5180MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	10359.510	6.64	49.65	56.29	74.00	-17.71	peak
2	10360.782	6.64	35.78	42.42	54.00	-11.58	AVG

### Remarks:

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

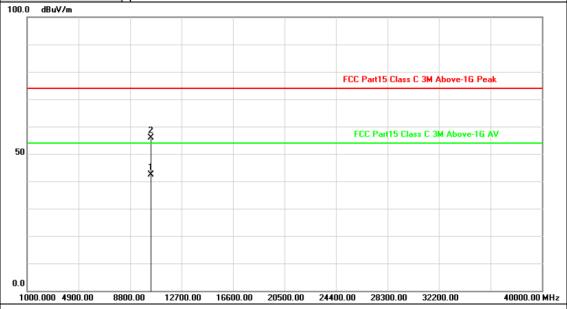
2.Margin value = Level -Limit value

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Ant. Pol.: Horizontal **Test Mode:** TX 802.11a Mode 5200MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10400.058	6.76	35.65	42.41	54.00	-11.59	AVG
2	10400.808	6.76	49.01	55.77	74.00	-18.23	peak

### Remarks:

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

2.Margin value = Level -Limit value



Ant. Pol.:

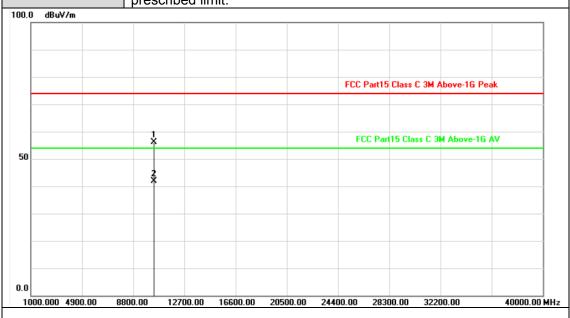
Test Mode:

TX 802.11a Mode 5200MHz (U-NII-1)

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	l .	_	Level (dBuV/m)		Margin (dB)	Detector
1	10399.792	6.76	49.37	56.13	74.00	-17.87	peak
2	10400.215	6.76	35.22	41.98	54.00	-12.02	AVG

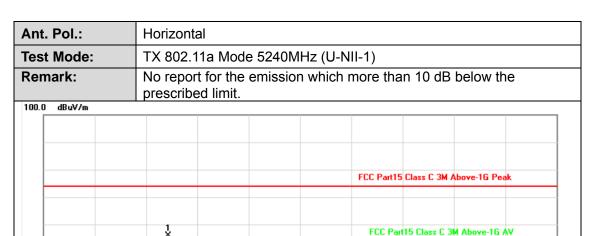
### Remarks:

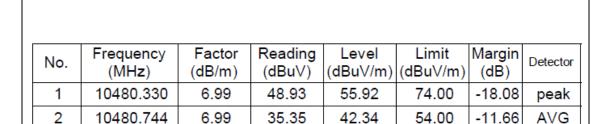
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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20500.00

24400.00

28300.00

32200.00

40000.00 MHz

### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

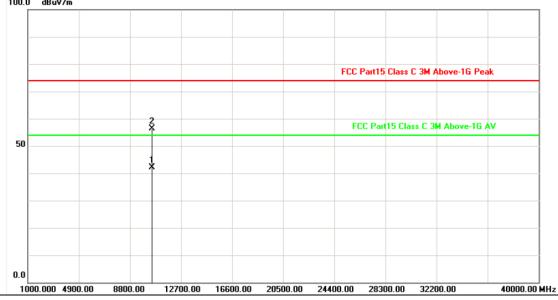
12700.00

16600.00



Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5240MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit. 100.0 dBuV/m

Report No.: CTC20210133E16



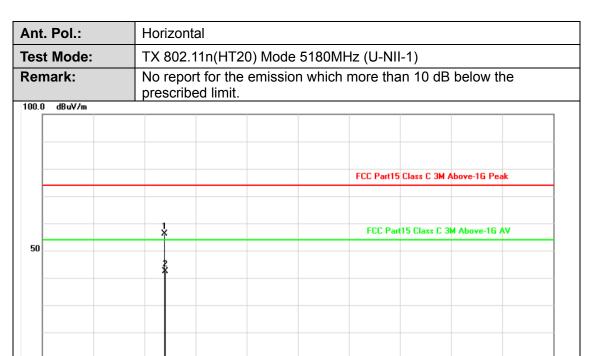
No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)	l	Margin (dB)	Detector
1	10479.240	6.99	35.26	42.25	54.00	-11.75	AVG
2	10479.952	6.99	49.28	56.27	74.00	-17.73	peak

### Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10359.442	6.64	49.47	56.11	74.00	-17.89	peak
2	10360.920	6.64	35.79	42.43	54.00	-11.57	AVG

20500.00

24400.00

28300.00

32200.00

40000.00 MHz

### Remarks:

1000.000 4900.00

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

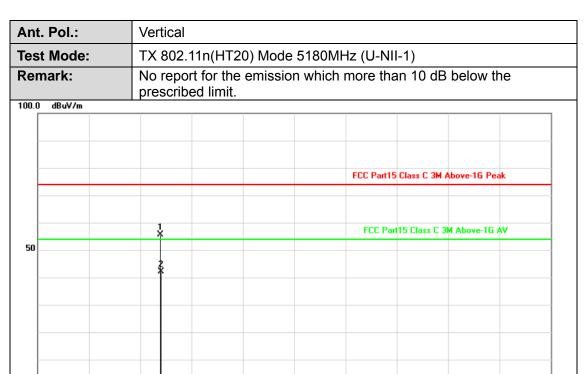
2.Margin value = Level -Limit value

8800.00

12700.00

16600.00





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10359.696	6.64	49.06	55.70	74.00	-18.30	peak
2	10360.442	6.64	35.57	42.21	54.00	-11.79	AVG

20500.00

24400.00

28300.00

32200.00

40000.00 MHz

### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

12700.00

16600.00

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40000.00 MHz



Ant. Pol.: Horizontal **Test Mode:** TX 802.11n(HT20) Mode 5200MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit. 100.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)	l	Margin (dB)	Detector
1	10399.157	6.75	50.05	56.80	74.00	-17.20	peak
2	10399.401	6.75	35.53	42.28	54.00	-11.72	AVG

12700.00 16600.00 20500.00 24400.00 28300.00

#### Remarks:

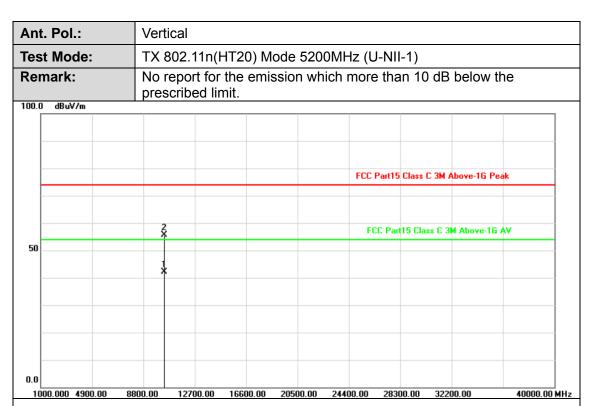
1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00





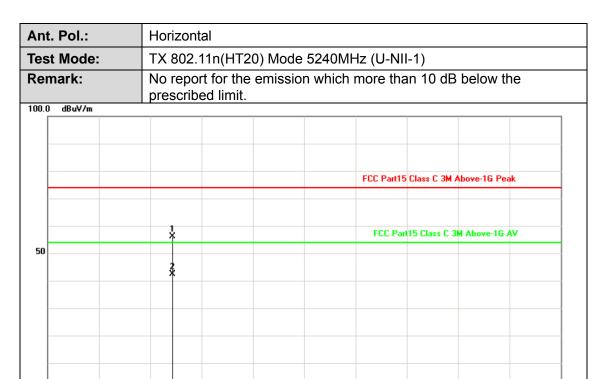
No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	10399.346	6.75	35.39	42.14	54.00	-11.86	AVG
2	10399.596	6.76	48.76	55.52	74.00	-18.48	peak

#### Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10479.859	6.99	49.16	56.15	74.00	-17.85	peak
2	10480.644	6.99	35.39	42.38	54.00	-11.62	AVG

16600.00 20500.00 24400.00 28300.00

32200.00

40000.00 MHz

### Remarks:

1000.000 4900.00

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

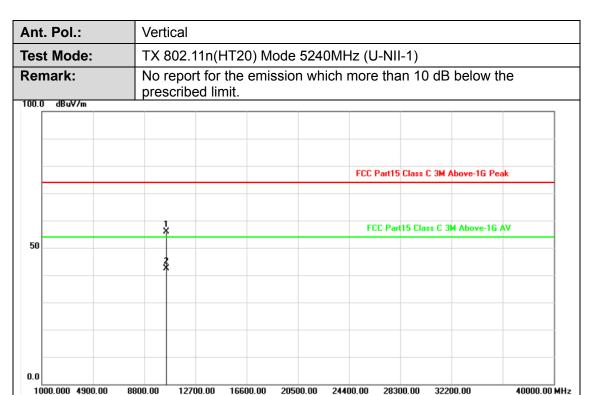
2.Margin value = Level -Limit value

8800.00

12700.00

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10479.385	6.99	48.83	55.82	74.00	-18.18	peak
2	10480.487	6.99	35.35	42.34	54.00	-11.66	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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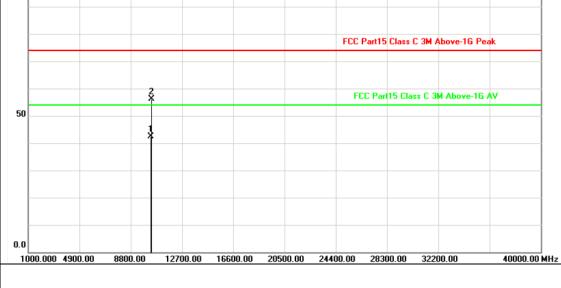
Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak



N	0.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
	1	10359.849	6.64	35.76	42.40	54.00	-11.60	AVG
	2	10360.074	6.64	49.43	56.07	74.00	-17.93	peak

#### Remarks:

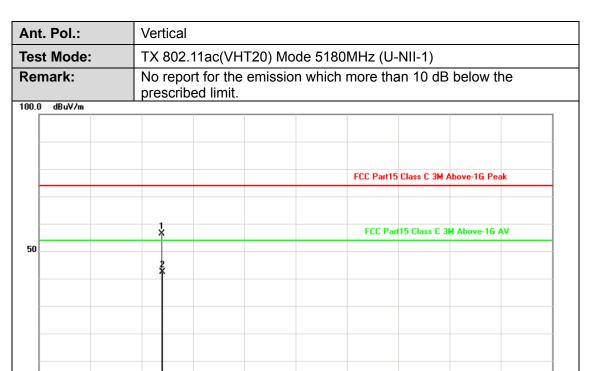
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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40000.00 MHz





No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	10359.458	6.64	49.65	56.29	74.00	-17.71	peak
2	10360.894	6.64	35.75	42.39	54.00	-11.61	AVG

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

## Remarks:

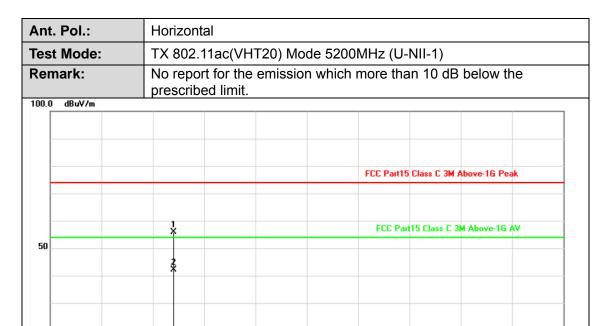
1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10399.215	6.75	49.24	55.99	74.00	-18.01	peak
2	10400.612	6.76	35.30	42.06	54.00	-11.94	AVG

16600.00 20500.00 24400.00 28300.00

32200.00

40000.00 MHz

## Remarks:

1000.000 4900.00

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

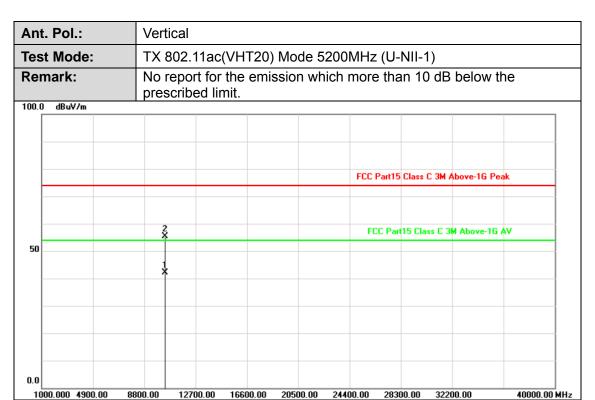
2.Margin value = Level -Limit value

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8800.00

12700.00





No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	10399.801	6.76	35.32	42.08	54.00	-11.92	AVG
2	10400.003	6.76	48.56	55.32	74.00	-18.68	peak

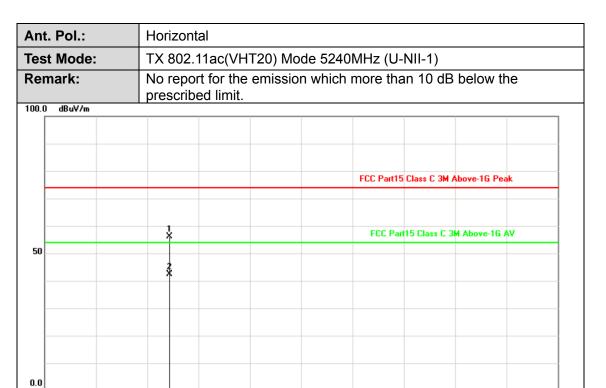
## Remarks:

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

2.Margin value = Level -Limit value

40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10479.580	6.99	49.10	56.09	74.00	-17.91	peak
2	10480.830	6.99	35.33	42.32	54.00	-11.68	AVG

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

## Remarks:

1000.000 4900.00

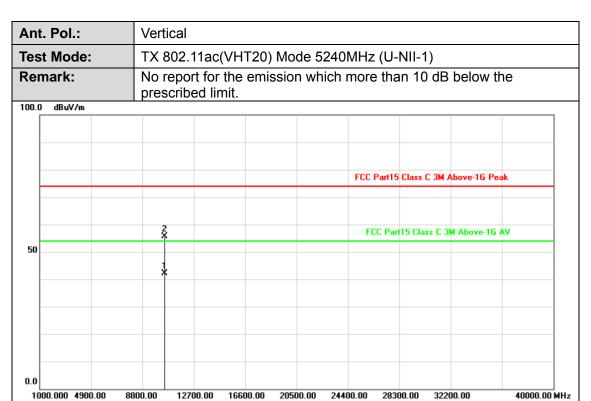
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

8800.00

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10480.183	6.99	35.23	42.22	54.00	-11.78	AVG
2	10480.689	6.99	48.76	55.75	74.00	-18.25	peak

# Remarks:

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

2.Margin value = Level -Limit value

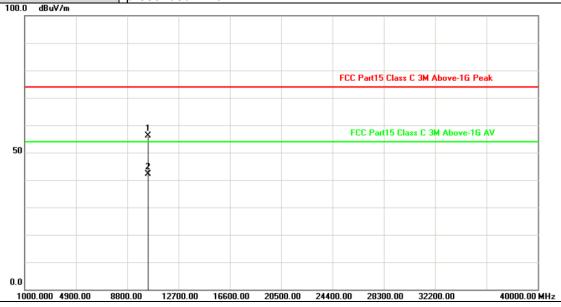


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5190MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10380.103	6.70	49.41	56.11	74.00	-17.89	peak
2	10380.609	6.70	35.41	42.11	54.00	-11.89	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

4000<u>0.00</u> MHz



Ant. Pol.: Vertical

Test Mode: TX 802.11n(HT40) Mode 5190MHz (U-NII-1)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10379.301	6.70	49.75	56.45	74.00	-17.55	peak
2	10380 218	6.70	35 50	42 20	54 00	-11 80	A\/G

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

#### Remarks:

1000.000 4900.00

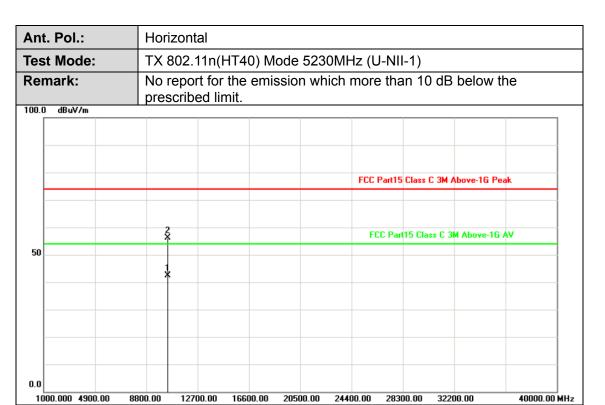
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

8800.00

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	10459.369	6.94	35.45	42.39	54.00	-11.61	AVG
2	10460.465	6.94	49.25	56.19	74.00	-17.81	peak

## Remarks:

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

2.Margin value = Level -Limit value

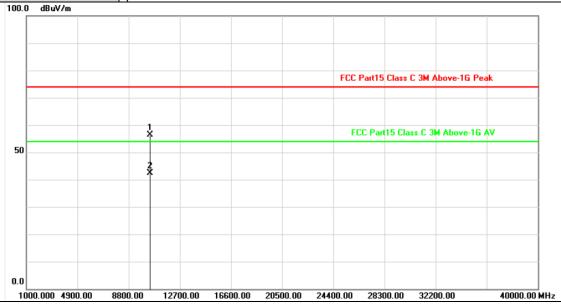


Ant. Pol.: Vertical

Test Mode: TX 802.11n(HT40) Mode 5230MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	10459.740	6.94	49.35	56.29	74.00	-17.71	peak
2	10460.138	6.94	35.45	42.39	54.00	-11.61	AVG

## Remarks:

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

2.Margin value = Level -Limit value

40000.00 MHz



Test Mode: TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10379.606	6.70	35.44	42.14	54.00	-11.86	AVG
2	10380.080	6.70	49.48	56.18	74.00	-17.82	peak

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

# Remarks:

1000.000 4900.00

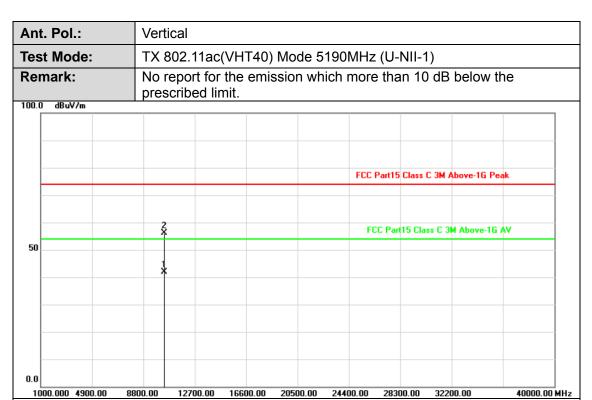
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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8800.00





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10379.157	6.70	35.29	41.99	54.00	-12.01	AVG
2	10379.314	6.70	49.33	56.03	74.00	-17.97	peak

#### Remarks:

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

2.Margin value = Level -Limit value

中国国家认证认可监督管理委员会

40000.00 MHz



Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	10459.096	6.93	49.16	56.09	74.00	-17.91	peak
2	10460.125	6.94	35.38	42.32	54.00	-11.68	AVG

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

# Remarks:

0.0

1000.000 4900.00

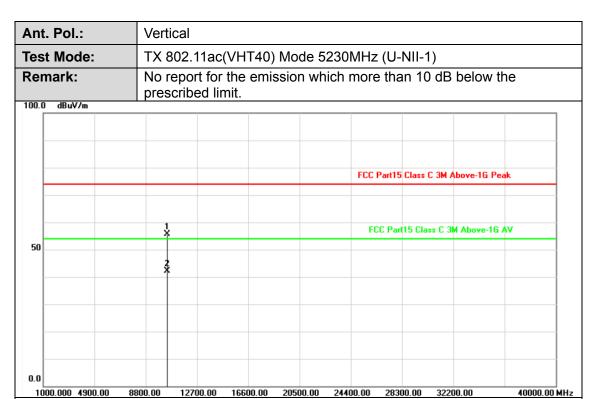
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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8800.00





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l	Margin (dB)	Detector
1	10459.997	6.94	48.75	55.69	74.00	-18.31	peak
2	10460.875	6.95	35.29	42.24	54.00	-11.76	AVG

## Remarks:

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

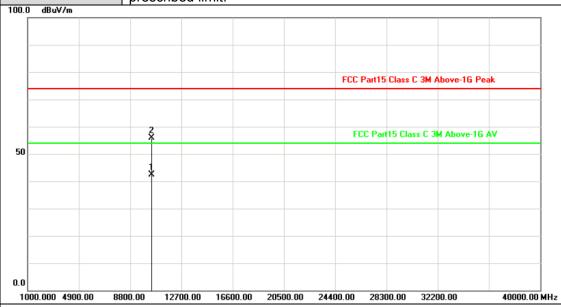
2.Margin value = Level -Limit value

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Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	10419.702	6.82	35.62	42.44	54.00	-11.56	AVG
2	10419.705	6.82	49.17	55.99	74.00	-18.01	peak

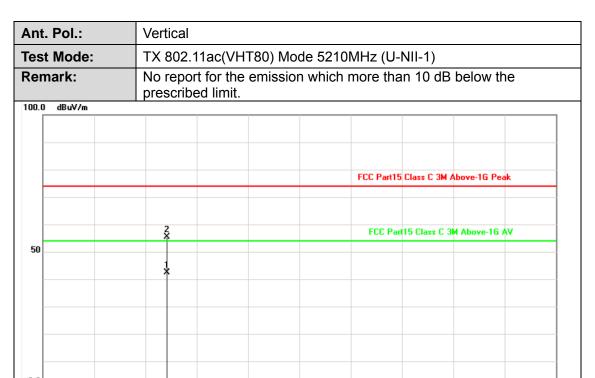
### Remarks:

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

2.Margin value = Level -Limit value

40000.00 MHz





No.	Frequency (MHz)		Reading (dBuV)				Detector
1	10420.006	6.82	35.50	42.32	54.00	-11.68	AVG
2	10420.821	6.82	48.64	55.46	74.00	-18.54	peak

20500.00 24400.00 28300.00

## Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

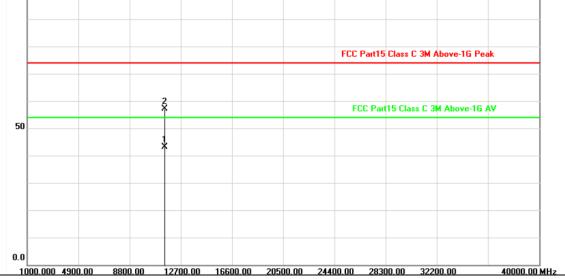
12700.00

16600.00



Ant. Pol.: Horizontal **Test Mode:** TX 802.11a Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 100.0 dBuV/m

Report No.: CTC20210133E16

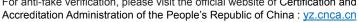


No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	11489.731	7.44	35.65	43.09	54.00	-10.91	AVG
2	11489.974	7.44	49.65	57.09	74.00	-16.91	peak

#### Remarks:

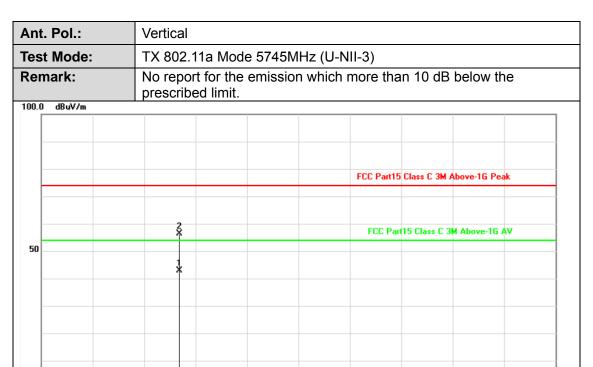
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value









No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	11490.769	7.44	35.49	42.93	54.00	-11.07	AVG
2	11490.978	7.44	48.95	56.39	74.00	-17.61	peak

20500.00

24400.00

28300.00

32200.00

40000.00 MHz

### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

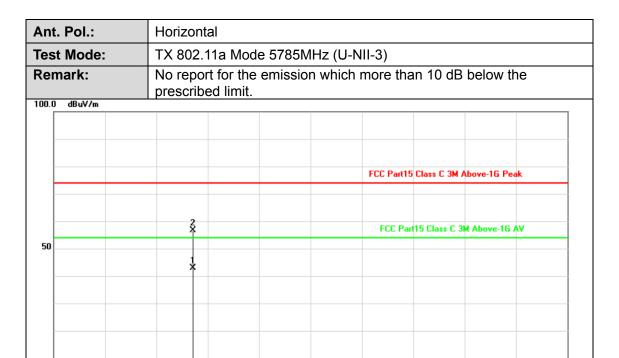
8800.00

12700.00

16600.00

40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11569.000	7.39	35.37	42.76	54.00	-11.24	AVG
2	11569.458	7.39	49.26	56.65	74.00	-17.35	peak

16600.00 20500.00 24400.00 28300.00 32200.00

12700.00

8800.00

#### Remarks:

0.0

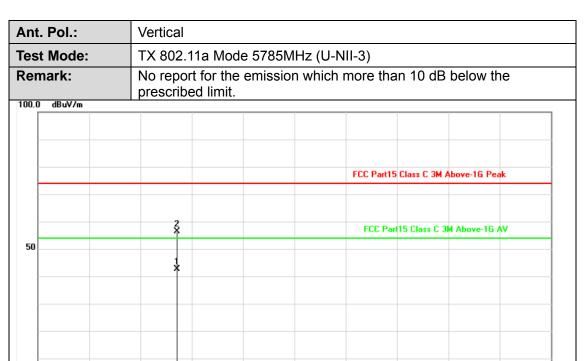
1000.000 4900.00

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

2.Margin value = Level -Limit value

40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)			Detector
1	11569.042	7.39	35.14	42.53	54.00	-11.47	AVG
2	11569.458	7.39	48.91	56.30	74.00	-17.70	peak

20500.00

24400.00

28300.00

32200.00

### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

12700.00

16600.00

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40000.00 MHz



50

1000.000 4900.00

Ant. Pol.: Horizontal

Test Mode: TX 802.11a Mode 5825MHz (U-NII-3)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	1	Limit (dBuV/m)	Margin (dB)	Detector
1	11649.795	7.34	49.12	56.46	74.00	-17.54	peak
2	11650.080	7.33	35.40	42.73	54.00	-11.27	AVG

16600.00 20500.00 24400.00 28300.00

#### Remarks:

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

2.Margin value = Level -Limit value

8800.00

12700.00

Accreditation Administration of the People's Republic of China: <a href="mailto:yz.cnca.cn">yz.cnca.cn</a>



Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5825MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 100.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak FCC Part15 Class C 3M Above-1G AV 50

No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	11649.657	7.34	35.44	42.78	54.00	-11.22	AVG
2	11650.417	7.33	48.87	56.20	74.00	-17.80	peak

20500.00

24400.00 28300.00

32200.00

40000.00 MHz

## Remarks:

0.0

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

12700.00

16600.00

40000.00 MHz



Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT20) Mode 5745MHz (U-NII-3)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 AV

No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
INO.	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	11489.471	7.44	49.78	57.22	74.00	-16.78	peak
2	11490.494	7.44	35.66	43.10	54.00	-10.90	AVG

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

#### Remarks

0.0

1000.000 4900.00

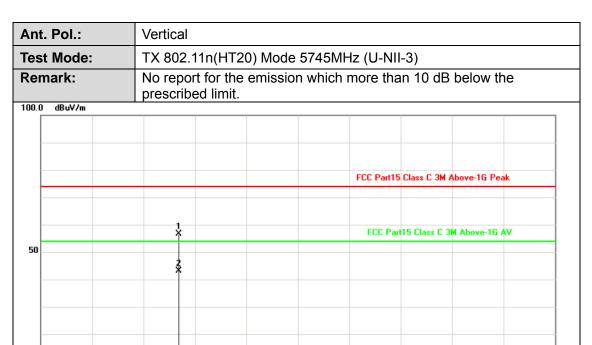
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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8800.00





No.	Frequency (MHz)	Factor (dB/m)	_	Level (dBuV/m)		Margin (dB)	Detector
1	11490.054	7.44	49.25	56.69	74.00	-17.31	peak
2	11490.112	7.44	35.58	43.02	54.00	-10.98	AVG

20500.00

24400.00

28300.00

32200.00

40000.00 MHz

## Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

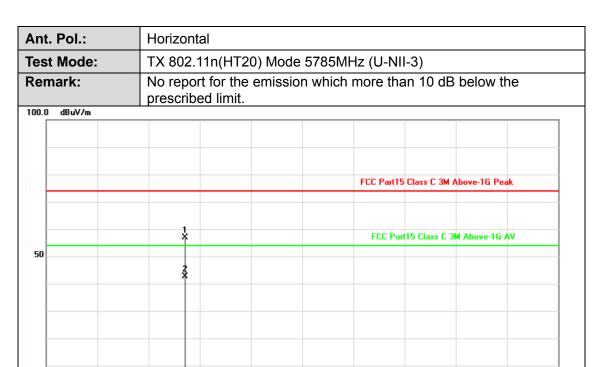
12700.00

16600.00

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40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11569.510	7.39	49.49	56.88	74.00	-17.12	peak
2	11569.827	7.39	35.29	42.68	54.00	-11.32	AVG

16600.00 20500.00 24400.00 28300.00 32200.00

#### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

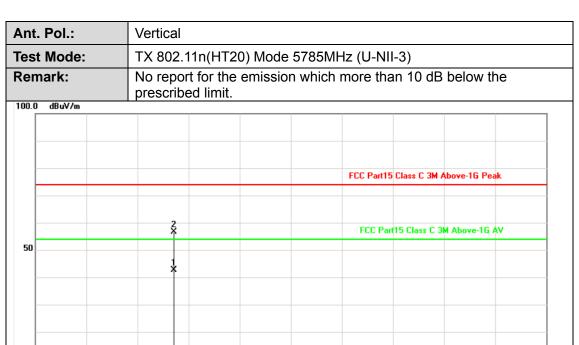
8800.00

12700.00

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

40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11569.154	7.39	35.13	42.52	54.00	-11.48	AVG
2	11569.699	7.39	49.27	56.66	74.00	-17.34	peak

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

#### Remarks:

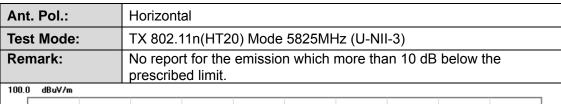
1000.000 4900.00

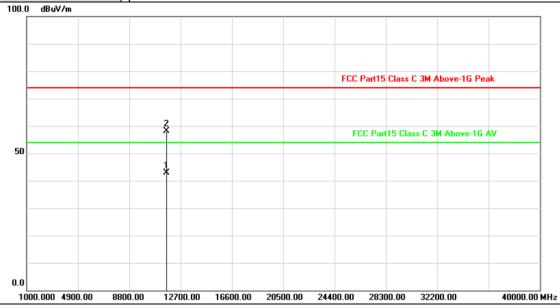
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

8800.00







No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)		Margin (dB)	Detector
1	11649.282	7.34	35.46	42.80	54.00	-11.20	AVG
2	11650.321	7.33	50.69	58.02	74.00	-15.98	peak

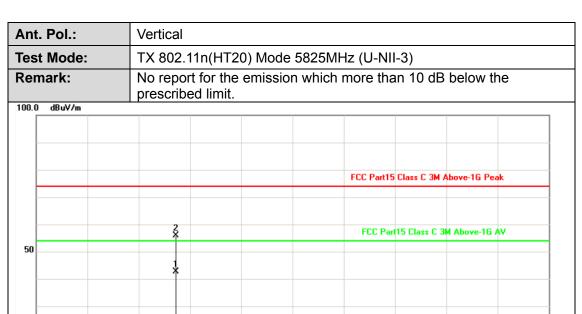
## Remarks:

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

2.Margin value = Level -Limit value

40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	l .	Margin (dB)	Detector
1	11649.606	7.34	35.39	42.73	54.00	-11.27	AVG
2	11650.859	7.33	48.46	55.79	74.00	-18.21	peak

16600.00 20500.00

24400.00

28300.00

32200.00

## Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

12700.00

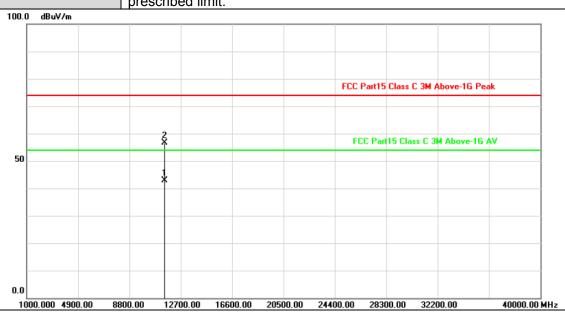


Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11490.308	7.44	35.40	42.84	54.00	-11.16	AVG
2	11490.702	7.44	49.30	56.74	74.00	-17.26	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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Ant. Pol.: Vertical **Test Mode:** TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 100.0 dBuV/m FCC Part15 Class C 3M Above-1G Peak FCC Part15 Class C 3M Above-1G AV 50

No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector
1	11489.990	7.44	48.96	56.40	74.00	-17.60	peak
2	11490.583	7.44	35.64	43.08	54.00	-10.92	AVG

20500.00

24400.00

32200.00

40000.00 MHz

## Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

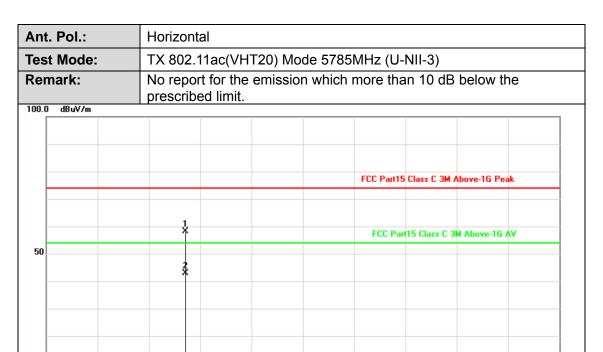
12700.00

16600.00

32200.00

40000.00 MHz





No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	11570.304	7.39	50.86	58.25	74.00	-15.75	peak
2	11570.994	7.39	35.53	42.92	54.00	-11.08	AVG

16600.00 20500.00 24400.00 28300.00

## Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

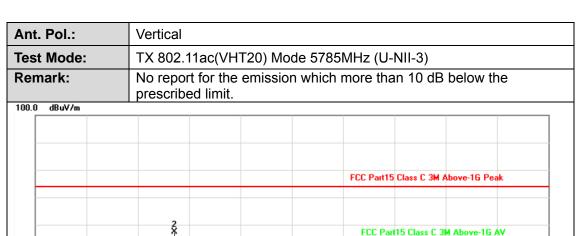
8800.00

12700.00

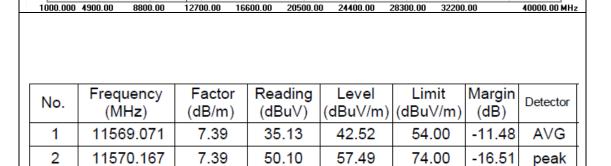
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Report No.: CTC20210133E16



### Remarks:

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

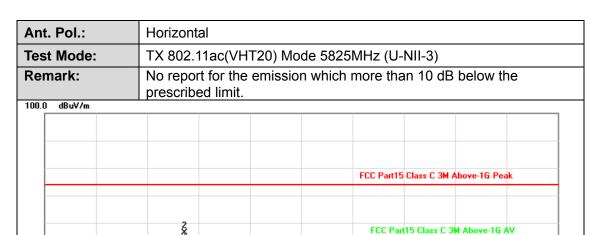
2.Margin value = Level -Limit value

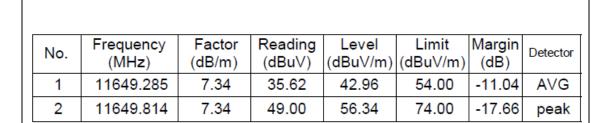
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50

1000.000 4900.00





16600.00 20500.00 24400.00 28300.00

32200.00

40000.00 MHz

## Remarks:

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

2.Margin value = Level -Limit value

8800.00

12700.00



Ant. Pol.:

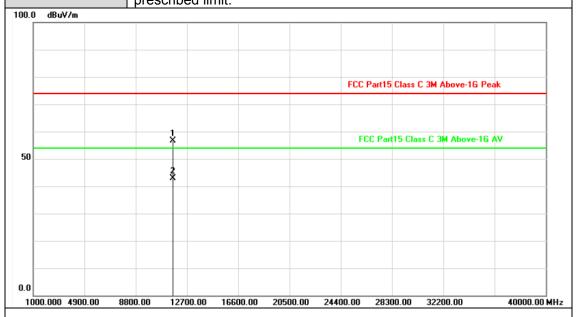
Test Mode:

TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11649.029	7.34	49.33	56.67	74.00	-17.33	peak
2	11650.542	7.33	35.56	42.89	54.00	-11.11	AVG

# Remarks:

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

2.Margin value = Level -Limit value

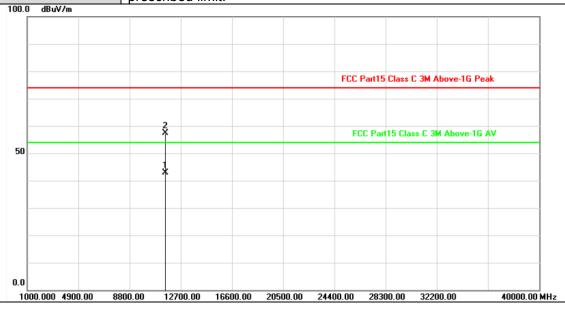


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5755MHz (U-NII-3)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11509.090	7.42	35.56	42.98	54.00	-11.02	AVG
2	11509.962	7.43	49.84	57.27	74.00	-16.73	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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40000.00 MHz



Ant. Pol.:

Test Mode:

TX 802.11n(HT40) Mode 5755MHz (U-NII-3)

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11509.474	7.42	49.46	56.88	74.00	-17.12	peak
2	11509.712	7.43	35.32	42.75	54.00	-11.25	AVG

20500.00

24400.00

28300.00

32200.00

# Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

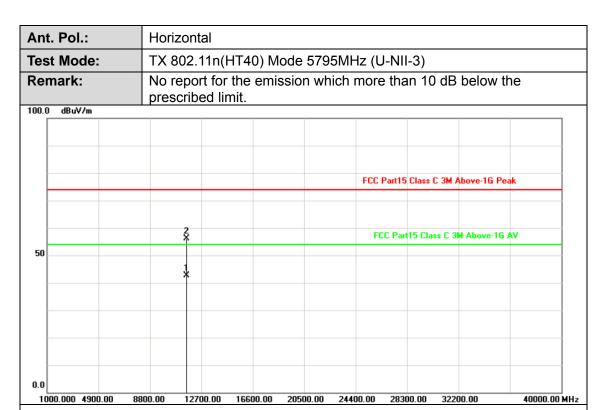
8800.00

12700.00

16600.00

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11589.657	7.37	35.34	42.71	54.00	-11.29	AVG
2	11589.981	7.37	48.76	56.13	74.00	-17.87	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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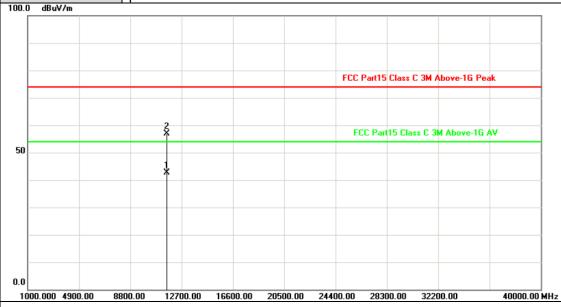


Ant. Pol.: Vertical

Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)		Level (dBuV/m)			Detector
1	11589.353	7.37	35.14	42.51	54.00	-11.49	AVG
2	11590.503	7.37	49.39	56.76	74.00	-17.24	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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32200.00

40000.00 MHz



Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-1G Peak

FCC Part15 Class C 3M Above-1G AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11509.192	7.42	49.67	57.09	74.00	-16.91	peak
2	11510.433	7.43	35.42	42.85	54.00	-11.15	AVG

20500.00 24400.00 28300.00

#### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

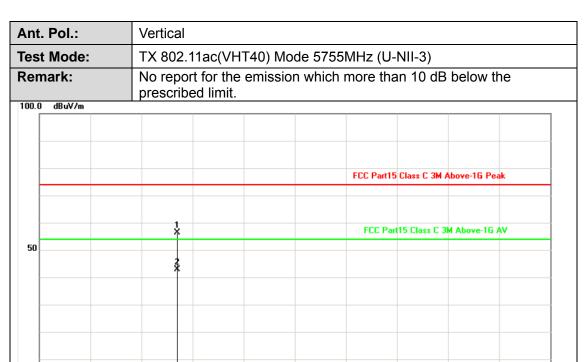
12700.00

16600.00

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40000.00 MHz





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	11509.696	7.43	49.01	56.44	74.00	-17.56	peak
2	11509.862	7.43	35.34	42.77	54.00	-11.23	AVG

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

#### Remarks:

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

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40000.00 MHz



Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)

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

100.0 dBuV/m

FCC Part15 Class C 3M Above-16 Peak

FCC Part15 Class C 3M Above-16 AV

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11589.458	7.37	35.26	42.63	54.00	-11.37	AVG
2	11589.897	7.37	48.89	56.26	74.00	-17.74	peak

12700.00 16600.00 20500.00 24400.00 28300.00 32200.00

## Remarks:

0.0

1000.000 4900.00

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

2.Margin value = Level -Limit value

8800.00

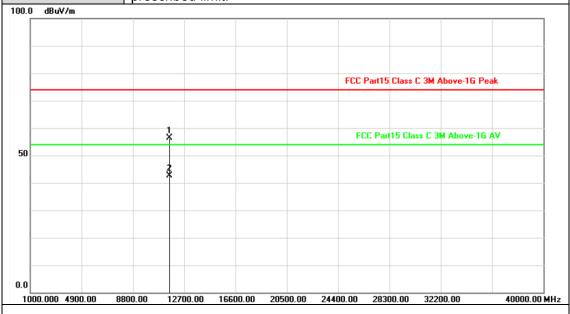


Ant. Pol.: Vertical

Test Mode: TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)

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

Report No.: CTC20210133E16



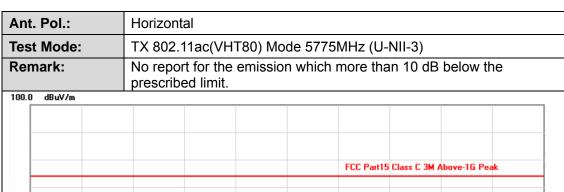
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	11589.272	7.37	48.89	56.26	74.00	-17.74	peak
2	11590.606	7.37	35.19	42.56	54.00	-11.44	AVG

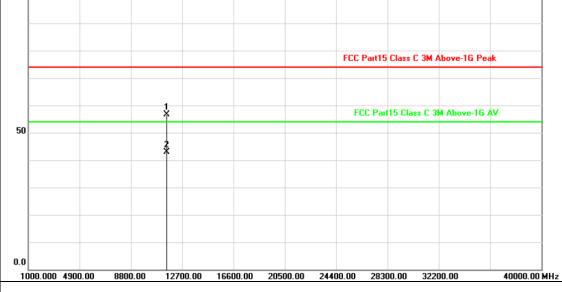
## Remarks:

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)		Margin (dB)	Detector
1	11550.301	7.39	49.21	56.60	74.00	-17.40	peak
2	11550.715	7.39	35.41	42.80	54.00	-11.20	AVG

## Remarks:

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

2.Margin value = Level -Limit value



Ant. Pol.:

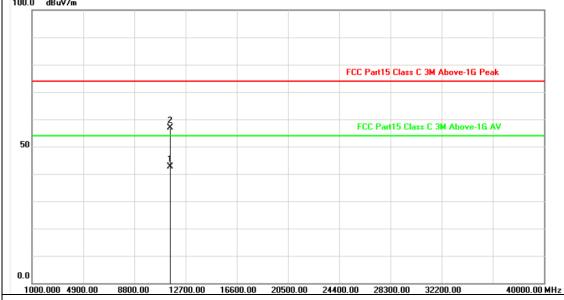
Test Mode:

TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)

Remark:

No report for the emission which more than 10 dB below the prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11549.196	7.41	35.21	42.62	54.00	-11.38	AVG
2	11550.163	7.39	49.52	56.91	74.00	-17.09	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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# 3.3. Band Edge Emissions

### **Limit**

## Limits of unwanted emission out of the restricted bands

## FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

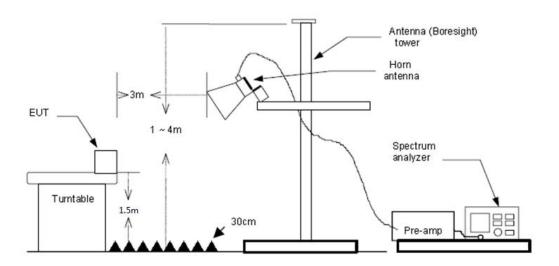
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)		
5150~5250	-27	68.2		
5250~5350	-27	68.2		
5470~5725	-27	68.2		
	-27(Note 2)	68.2		
5725~5825	10(Note 2)	105.2		
3725~5025	15.6(Note 2)	110.8		
	27(Note 2)	122.2		

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:  $E = \frac{1000000\sqrt{30P}}{1000000\sqrt{30P}}$  where B is the eirp (Wette)

strength:  $E = \frac{1000000\sqrt{30P}}{3}$  uV/m, where P is the eirp (Watts)

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

## **Test Configuration**



#### **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

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5. The receiver set as follow:

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

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Appendix E: Duty Cycle

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## **Test Mode**

Please refer to the clause 2.4.

#### **Test Results**

۹nt.	Pol.:	Horizontal	
Гest	Mode:	TX 802.11a Mode	5180MHz (U-NII-1)
Rem	nark:	No report for the e prescribed limit.	mission which more than 10 dB below the
100.0	dBuV/m		
			FCC Part15 Class C 3M Above-16 Peak
			FCC Gar(15 Class © 3M Above-16 AV
50			3
0.0	4.000 5034.00	5054.00 5074.00 5094.0	0 5114.00 5134.00 5154.00 5174.00 5214.00

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	-1.92	57.37	55.45	74.00	-18.55	peak
2	5150.000	-1.92	41.39	39.47	54.00	-14.53	AVG

## Remarks:

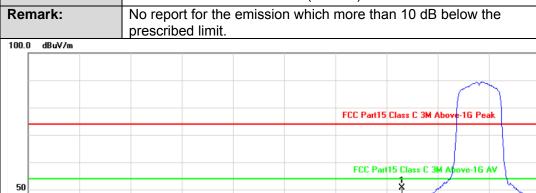
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

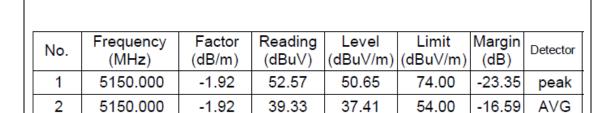
2.Margin value = Level -Limit value



Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5180MHz (U-NII-1)

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5104.00

5124.00

5144.00

5164.00

5204.00 MHz

#### Remarks:

0.0

5004.000 5024.00

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

2.Margin value = Level -Limit value

5044.00

5064.00

5084.00

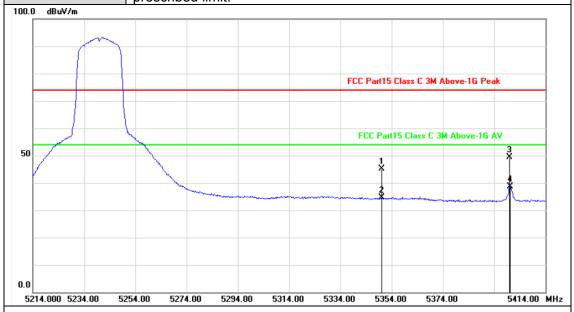


Ant. Pol.: Horizontal

Test Mode: TX 802.11a Mode 5240MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	46.58	45.13	74.00	-28.87	peak
2	5350.000	-1.45	36.01	34.56	54.00	-19.44	AVG
3	5400.000	-1.33	50.83	49.50	74.00	-24.50	peak
4	5400.200	-1.33	39.97	38.64	54.00	-15.36	AVG

#### Remarks:

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

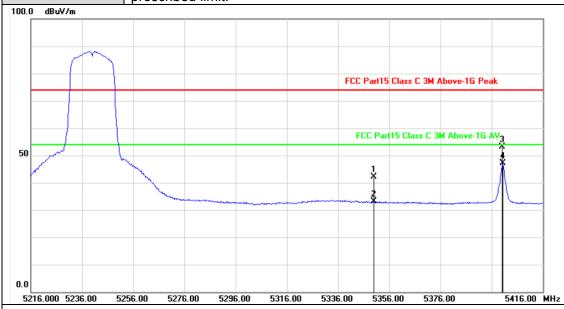
2.Margin value = Level -Limit value

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Ant. Pol.: Vertical **Test Mode:** TX 802.11a Mode 5240MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	43.63	42.18	74.00	-31.82	peak
2	5350.000	-1.45	34.60	33.15	54.00	-20.85	AVG
3	5400.200	-1.33	54.37	53.04	74.00	-20.96	peak
4	5400.400	-1.33	48.43	47.10	54.00	-6.90	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

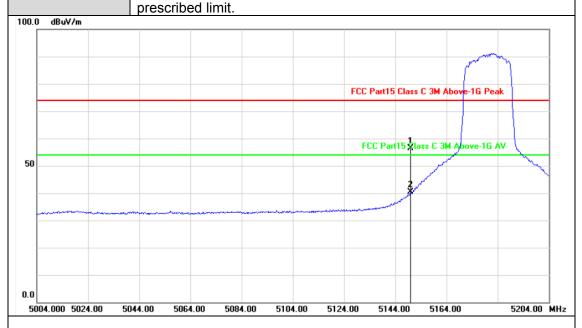


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT20) Mode 5180MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	5150.000	-1.92	58.35	56.43	74.00	-17.57	peak
2	5150.000	-1.92	42.18	40.26	54.00	-13.74	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

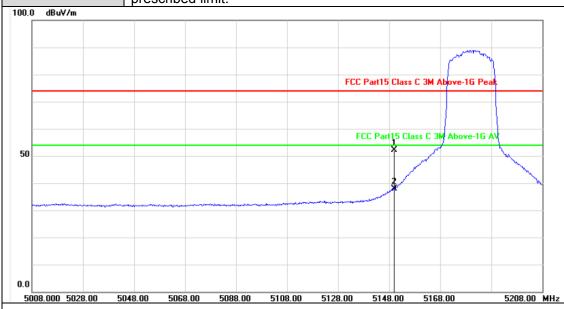


Ant. Pol.: Vertical

Test Mode: TX 802.11n(HT20) Mode 5180MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)		Reading (dBuV)			Margin (dB)	Detector
1	5150.000	-1.92	54.01	52.09	74.00	-21.91	peak
2	5150.000	-1.92	39.83	37.91	54.00	-16.09	AVG

## Remarks:

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

2.Margin value = Level -Limit value

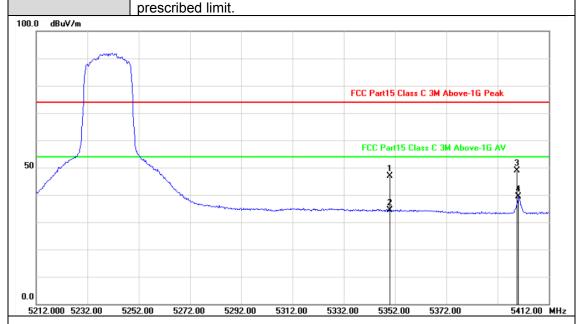


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT20) Mode 5240MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	48.44	46.99	74.00	-27.01	peak
2	5350.000	-1.45	35.94	34.49	54.00	-19.51	AVG
3	5399.600	-1.33	50.12	48.79	74.00	-25.21	peak
4	5400.200	-1.33	40.66	39.33	54.00	-14.67	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

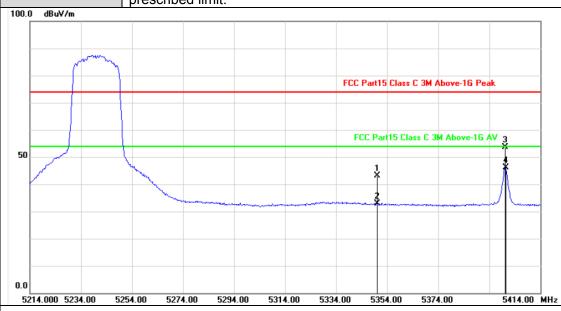


Ant. Pol.:

Test Mode: TX 802.11n(HT20) Mode 5240MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	44.52	43.07	74.00	-30.93	peak
2	5350.000	-1.45	34.27	32.82	54.00	-21.18	AVG
3	5400.200	-1.33	54.98	53.65	74.00	-20.35	peak
4	5400.400	-1.33	47.55	46.22	54.00	-7.78	AVG

#### Remarks:

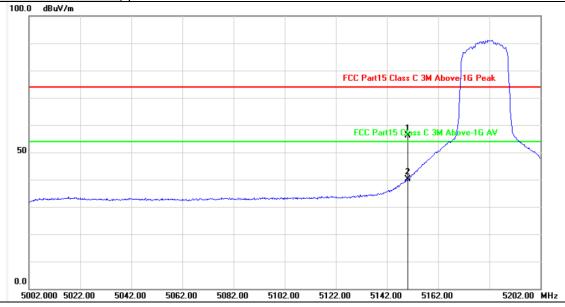
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	l	_	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	-1.92	57.93	56.01	74.00	-17.99	peak
2	5150.000	-1.92	41.95	40.03	54.00	-13.97	AVG

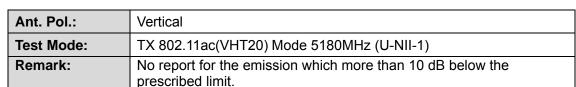
#### Remarks:

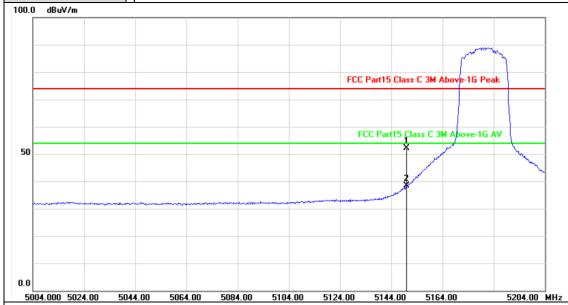
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)				Limit (dBuV/m)		Detector
1	5150.000	-1.92	54.11	52.19	74.00	-21.81	peak
2	5150.000	-1.92	40.37	38.45	54.00	-15.55	AVG

#### Remarks:

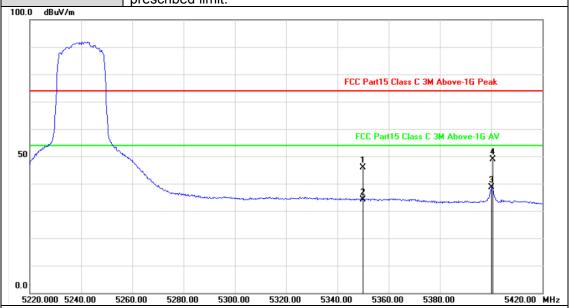
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	47.44	45.99	74.00	-28.01	peak
2	5350.000	-1.45	35.65	34.20	54.00	-19.80	AVG
3	5400.200	-1.33	39.92	38.59	54.00	-15.41	AVG
4	5400.600	-1.33	50.11	48.78	74.00	-25.22	peak

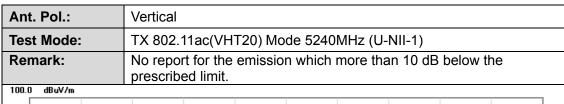
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

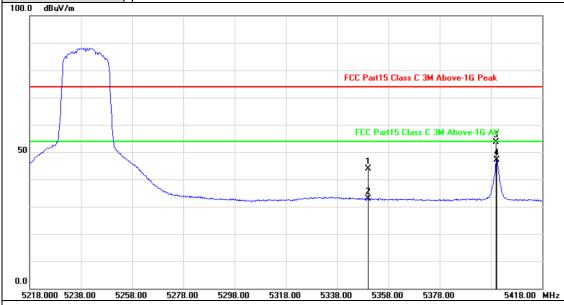
2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	45.29	43.84	74.00	-30.16	peak
2	5350.000	-1.45	34.21	32.76	54.00	-21.24	AVG
3	5400.000	-1.33	54.92	53.59	74.00	-20.41	peak
4	5400.200	-1.33	48.40	47.07	54.00	-6.93	AVG

#### Remarks:

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

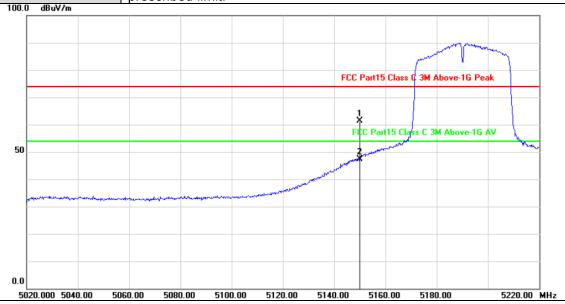


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5190MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	-1.92	63.18	61.26	74.00	-12.74	peak
2	5150.000	-1.92	49.32	47.40	54.00	-6.60	AVG

### Remarks:

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

2.Margin value = Level -Limit value

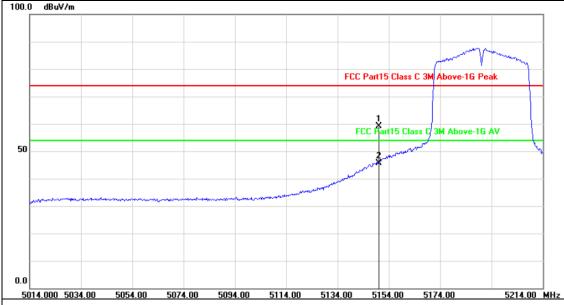


Ant. Pol.:

Test Mode: TX 802.11n(HT40) Mode 5190MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	-1.92	61.17	59.25	74.00	-14.75	peak
2	5150.000	-1.92	47.59	45.67	54.00	-8.33	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

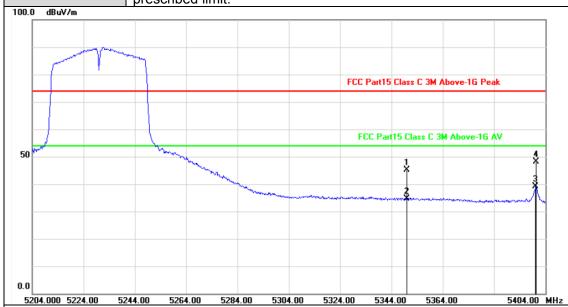


Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5230MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	46.52	45.07	74.00	-28.93	peak
2	5350.000	-1.45	36.05	34.60	54.00	-19.40	AVG
3	5400.200	-1.33	40.35	39.02	54.00	-14.98	AVG
4	5400.400	-1.33	49.47	48.14	74.00	-25.86	peak

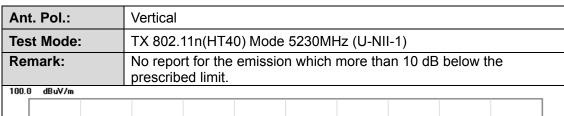
## Remarks:

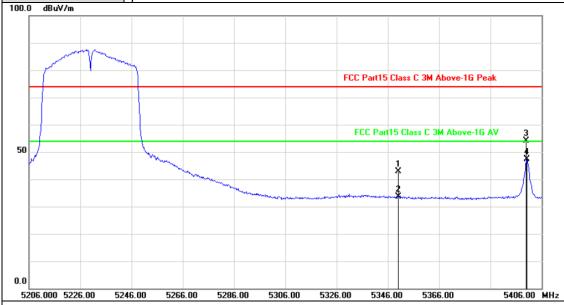
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	44.40	42.95	74.00	-31.05	peak
2	5350.000	-1.45	35.00	33.55	54.00	-20.45	AVG
3	5400.000	-1.33	55.40	54.07	74.00	-19.93	peak
4	5400.200	-1.33	48.61	47.28	54.00	-6.72	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

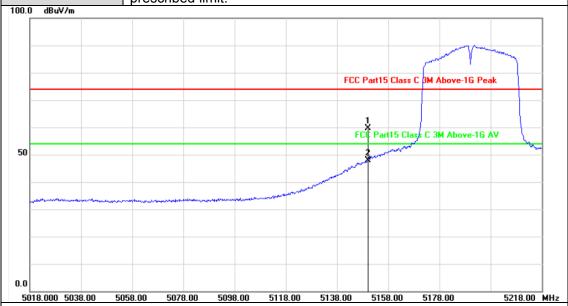


Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)			Level (dBuV/m)			Detector
1	5150.000	-1.92	61.61	59.69	74.00	-14.31	peak
2	5150.000	-1.92	49.71	47.79	54.00	-6.21	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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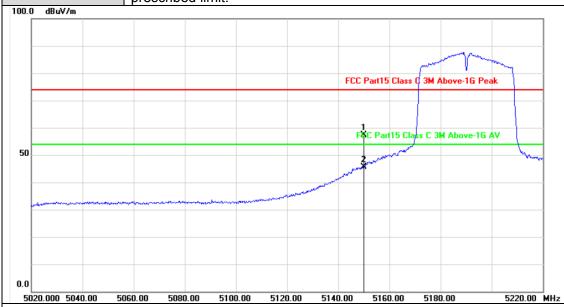


Ant. Pol.: Vertical

Test Mode: TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	-1.92	59.42	57.50	74.00	-16.50	peak
2	5150.000	-1.92	47.65	45.73	54.00	-8.27	AVG

#### Remarks:

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

2.Margin value = Level -Limit value

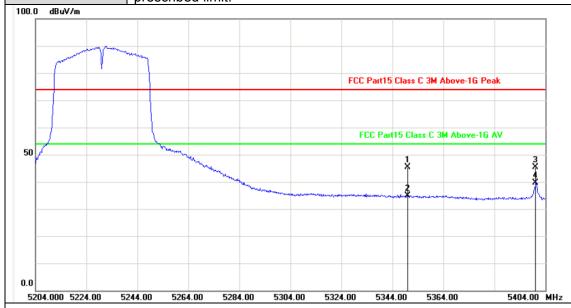


Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	46.95	45.50	74.00	-28.50	peak
2	5350.000	-1.45	36.28	34.83	54.00	-19.17	AVG
3	5400.000	-1.33	46.65	45.32	74.00	-28.68	peak
4	5400.200	-1.33	40.99	39.66	54.00	-14.34	AVG

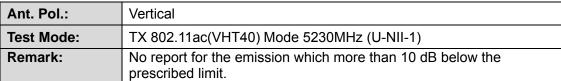
## Remarks:

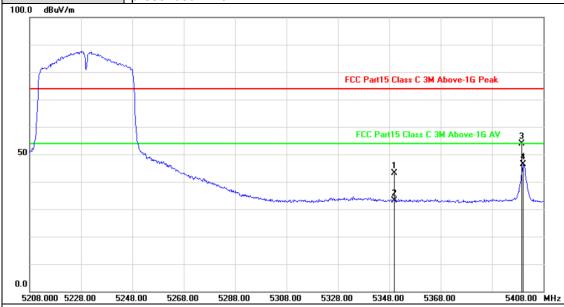
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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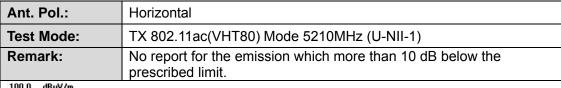
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	-1.45	44.60	43.15	74.00	-30.85	peak
2	5350.000	-1.45	34.68	33.23	54.00	-20.77	AVG
3	5399.600	-1.33	55.14	53.81	74.00	-20.19	peak
4	5400.200	-1.33	47.63	46.30	54.00	-7.70	AVG

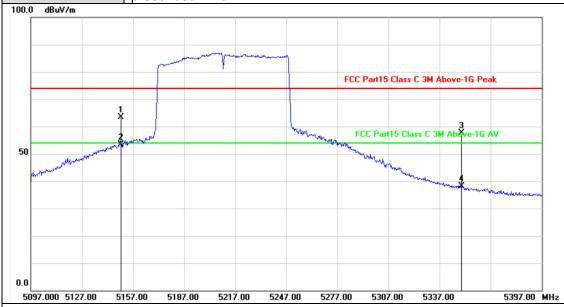
## Remarks:

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	5150.000	-1.92	65.29	63.37	74.00	-10.63	peak
2	5150.000	-1.92	55.37	53.45	54.00	-0.55	AVG
3	5350.000	-1.45	59.16	57.71	74.00	-16.29	peak
4	5350.000	-1.45	39.46	38.01	54.00	-15.99	AVG

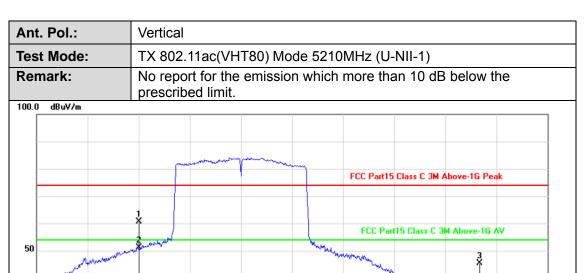
#### Remarks:

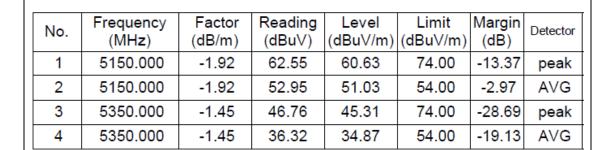
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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5240.00

5270.00

5300.00

5330.00

5390.00 MHz

#### Remarks:

0.0

5090.000 5120.00

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

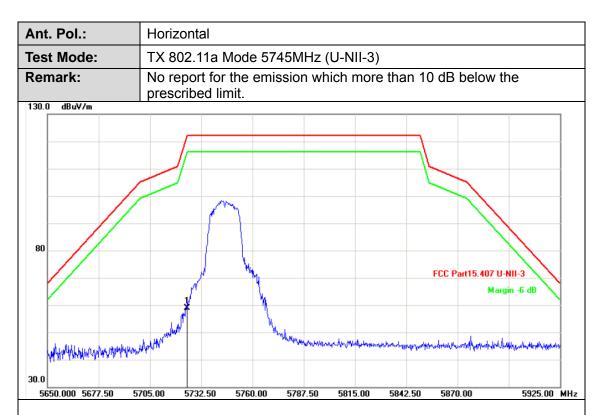
2.Margin value = Level -Limit value

5150.00

5180.00

5210.00





No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	59.11	58.88	122.20	-63.32	peak

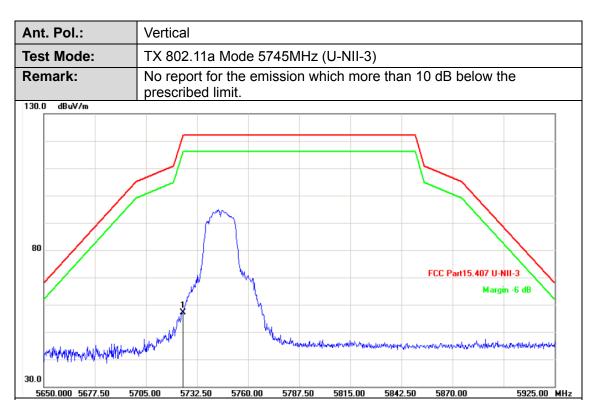
#### Remarks:

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

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	57.42	57.19	122.20	-65.01	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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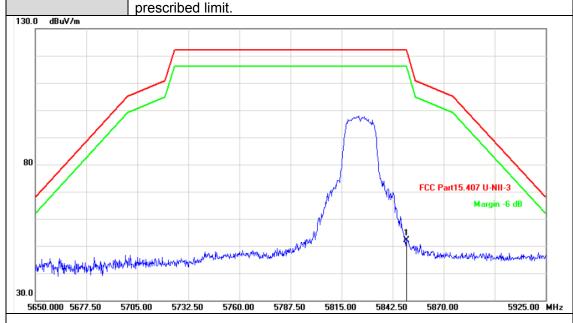


Ant. Pol.: Horizontal

Test Mode: TX 802.11a Mode 5825MHz (U-NII-3)

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

Report No.: CTC20210133E16



No.	Frequency (MHz)			Level (dBuV/m)		Margin (dB)	Detector	
1	5850.000	0.26	51.79	52.05	122.20	-70.15	peak	Ī

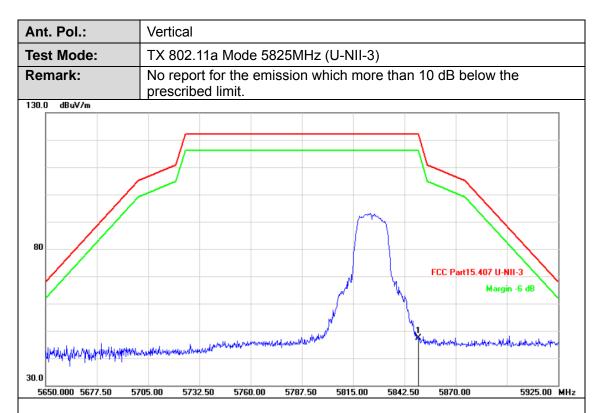
## Remarks:

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

2.Margin value = Level -Limit value

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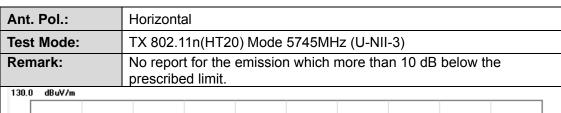
No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	47.03	47.29	122.20	-74.91	peak

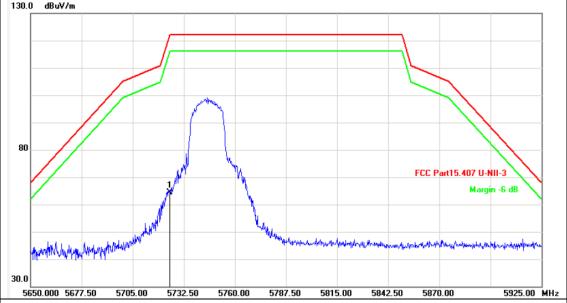
#### Remarks:

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

2.Margin value = Level -Limit value







No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5725.000	-0.23	64.73	64.50	122.20	-57.70	peak	

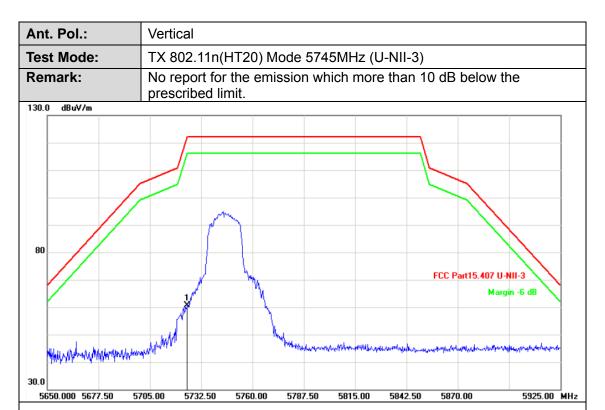
## Remarks:

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

2.Margin value = Level -Limit value

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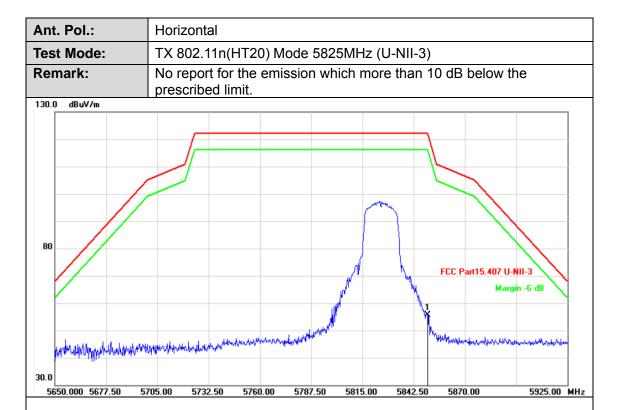
No.	Frequency (MHz)	l	Reading (dBuV)	I	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	60.77	60.54	122.20	-61.66	peak

## Remarks:

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

2.Margin value = Level -Limit value





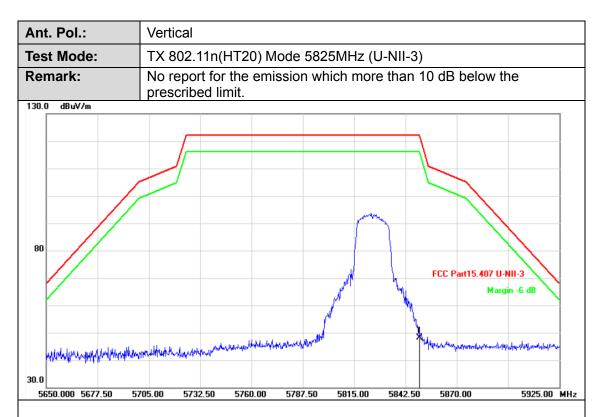
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	55.27	55.53	122.20	-66.67	peak

#### Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	47.83	48.09	122.20	-74.11	peak

#### Remarks:

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

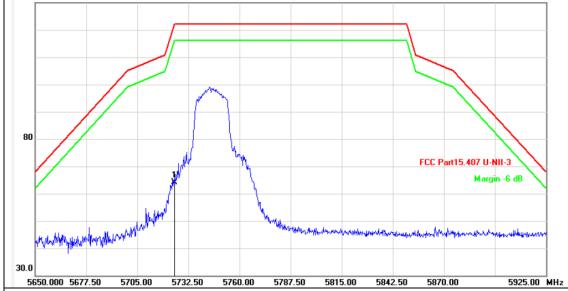
2.Margin value = Level -Limit value



Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)

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



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5725.000	-0.23	64.35	64.12	122.20	-58.08	peak	

#### Remarks:

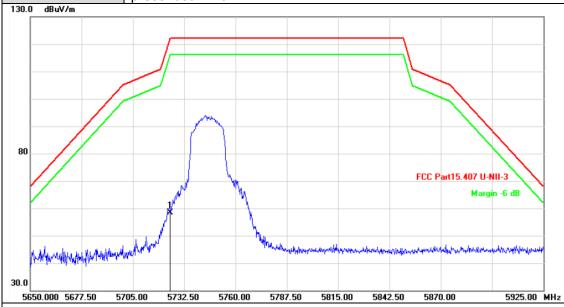
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Vertical **Test Mode:** TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20210133E16



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	58.59	58.36	122.20	-63.84	peak

#### Remarks:

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

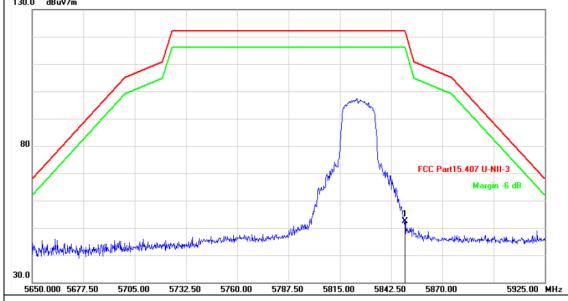
2.Margin value = Level -Limit value



Ant. Pol.: Horizontal

Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)

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



No.	Frequency (MHz)			Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	52.20	52.46	122.20	-69.74	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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Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)

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

130.0 dBuV/m

FCC Part15.407 U-NII-3

Margin -6 dB

No.	Frequency (MHz)		Reading (dBuV)		Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	46.86	47.12	122.20	-75.08	peak

5787.50

5815.00

5842.50

5870.00

5925.00 MHz

#### Remarks:

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

2.Margin value = Level -Limit value

446444444444444444444444444444

5705.00

5732.50

5760.00

5650.000 5677.50

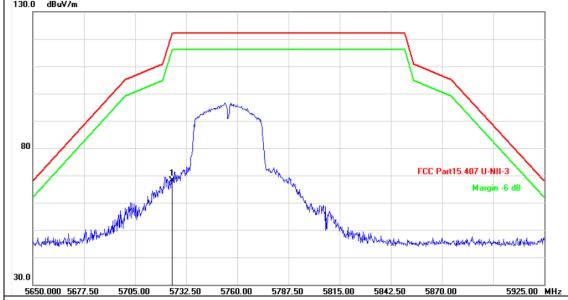
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Ant. Pol.: Horizontal

Test Mode: TX 802.11n(HT40) Mode 5755MHz (U-NII-3)

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



No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5725.000	-0.23	68.27	68.04	122.20	-54.16	peak	

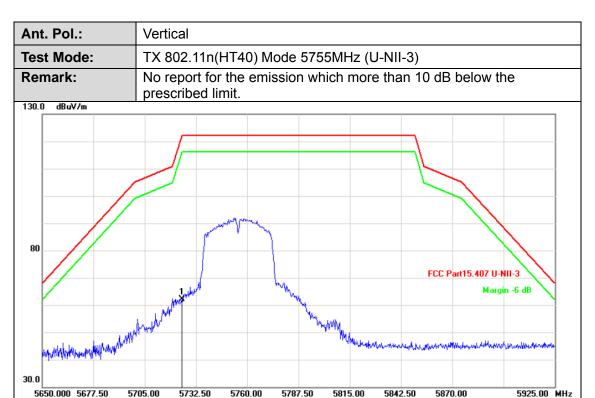
#### Remarks:

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

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	62.28	62.05	122.20	-60.15	peak

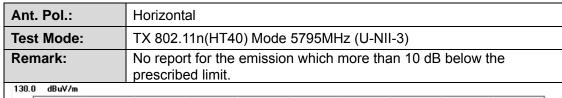
#### Remarks:

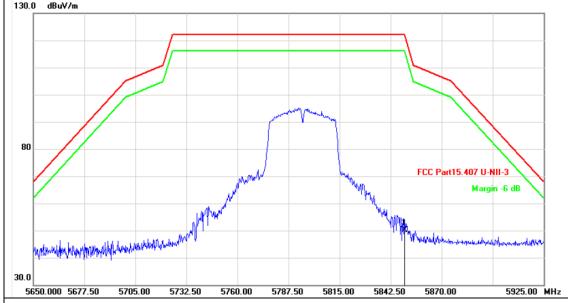
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5850.000	0.26	49.84	50.10	122.20	-72.10	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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Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3)

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

130.0 dBuV/m

FCC Part15.407 U-NII-3

Margin -6 dB

No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5850.000	0.26	46.05	46.31	122.20	-75.89	peak	Ī

5787.50

5815.00

5842.50

5870.00

5925.00 MHz

#### Remarks:

5650.000 5677.50

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

2.Margin value = Level -Limit value

5705.00

5732.50

5760.00

FCC Part15.407 U-NII-3

5870.00

Margin -6 dB

5925.00 MHz



Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)

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

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725 000	_0.23	67.80	67 57	122.20	-54 63	noak

5787.50

5815.00

5842.50

#### Remarks:

Anger in philosophy har profit all there has

5705.00

5732.50

5760.00

5650.000 5677.50

30.0

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

2.Margin value = Level -Limit value

Margin -6 dB

5925.00 MHz

5870.00



Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)

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

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	62.56	62.33	122.20	-59.87	peak

5787.50

5815.00

#### 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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5705.00

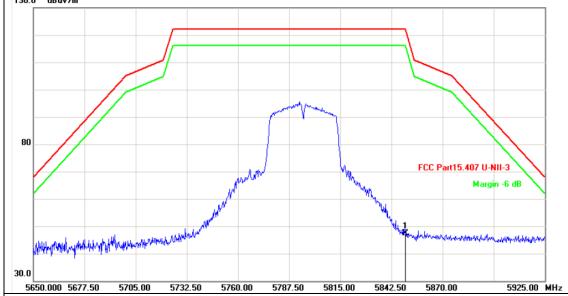
5732.50

5760.00

5650.000 5677.50



Ant. Pol.: Horizontal **Test Mode:** TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m

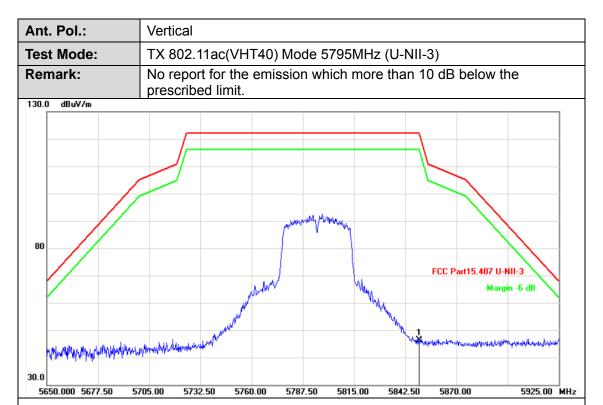


No.	Frequency (MHz)		Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	5850.000	0.26	47.16	47.42	122.20	-74.78	peak	

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	l	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.000	0.26	46.04	46.30	122.20	-75.90	peak

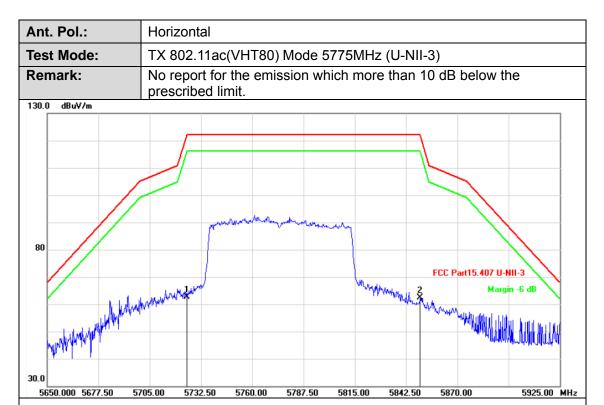
#### Remarks:

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

2.Margin value = Level -Limit value

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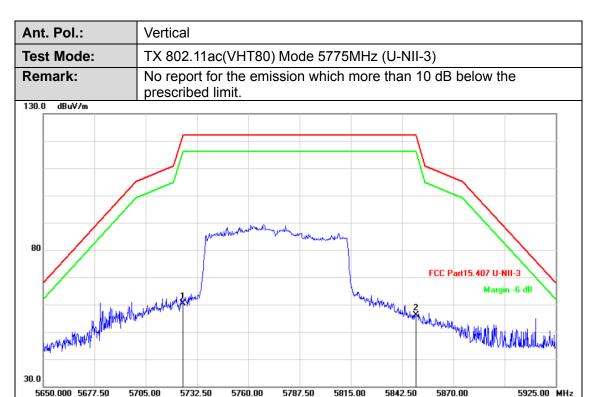
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	62.88	62.65	122.20	-59.55	peak
2	5850.000	0.26	62.23	62.49	122.20	-59.71	peak

#### Remarks:

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

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5725.000	-0.23	60.71	60.48	122.20	-61.72	peak
2	5850.000	0.26	55.91	56.17	122.20	-66.03	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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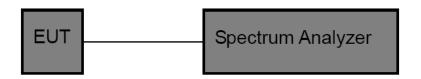


### 3.4. Bandwidth Test

#### **Limit**

FCC Part 15 Subpart C(15.407)/ RSS-247					
Test Item Limit Frequency Range (MHz)					
		5150~5250			
26 Bandwidth	N/A	5250~5350			
		5500~5700			
6 dB Bandwidth	>500kHz	5725~5850			

### **Test Configuration**



### **Test Procedure**

Please refer to According to KDB789033 D02, for the measurement methods.

### The setting of the spectrum analyser as below:

26dB Bandwidth Test				
Spectrum Parameters Setting				
Attenuation	Auto			
Span	>26 dB Bandwidth			
RBW	Approximately 1% of the emission bandwidth			
VBW	VBW>RBW			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			

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6dB Bandwidth Test				
Spectrum Parameters	Setting			
Attenuation	Auto			
Span	>6 dB Bandwidth			
RBW	100 kHz			
VBW	VBW>=3*RBW			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			
	99% Occupied Bandwidth Test			
Spectrum Parameters	Setting			
Attenuation	Auto			
RBW	1% to 5% of the OBW			
VBW	≥ 3RBW			
Detector	Peak			
Trace	Max Hold			

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

### **Test Mode**

Please refer to the clause 2.4.

### **Test Results**

Please see the Appendix A1, A2, A3.



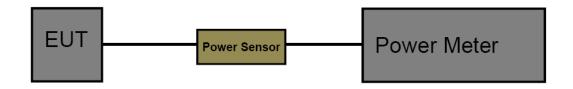
# 3.5. Output Power Test

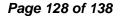
### <u>Limit</u>

FCC Part 15 Subpart E (15.407)						
Test Item Limit Frequency Range(N						
	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250				
Conducted Output Power	250mW (24dBm)	5250~5350				
	250mW (24dBm)	5500~5700				
	1 Watt (30dBm)	5725~5850				

			IC Power@PSD Lim	nit	
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles	output 10mer	30mW or 1.76 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	Spectral beastly	Spectral paisity
STSUME SESSIME	Other Devices		200mW or 10 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
	in vehicles		30mW or 1.76 + 10 × logsoB dBm, whichever is less (B=99% OBW in MHz)		
5250MHz-5350MHz	Other Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×logioB dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1₩		30dBm/500KHz	

### **Test Configuration**







#### **Test Procedure**

The measurement is acc of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

#### **Test Mode**

Please refer to the clause 2.4.

### **Test Result**

Please see the Appendix B.



### 3.6. Power Spectral Density Test

#### **Limit**

#### FCC Part 15 Subpart E(15.407)/ RSS-247

#### For the 5.15~5.25GHz band:

Outdoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If  $G_{Tx}$ >6dBi, then PSD =17-( $G_{Tx}$ -6).

Indoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If  $G_{Tx}$ >6dBi, then PSD =17-( $G_{Tx}$ -6).

Point-to-point AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If  $G_{Tx}$ >23dBi, then PSD =17-( $G_{Tx}$ -23).

Client devices

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If  $G_{Tx}$ >6dBi, then PSD =11-( $G_{Tx}$ -6).

#### For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If  $G_{Tx}$ >6dBi, then PSD =11-( $G_{Tx}$ -6).

### For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If  $G_{Tx}$ >6dBi, then PSD =11-( $G_{Tx}$ -6).

#### For the 5.725~5.85GHz band:

Point-to-multipoint systems (P2M)

The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. If  $G_{Tx}>6dBi$ , then PSD = $30-(G_{Tx}-6)$ .

Point-to-point systems (P2P)

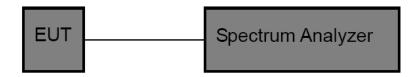
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G<sub>Tx</sub>: EUT Antenna gain.

		nit			
Frequency	Type of devices	Maximum Conducted	EIRP Output Power	Conducted Power	EIRP Power
rrequency	Type of devices	Output Power	EIM Output rower	Spectral Density	Spectral Density
5150MHz-5250MHz	in vehicles		30mW or 1.76 + 10 × log:0B dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or 10 + 10 × logioB dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
	in vehicles		30mW or 1.76 + 10 × logioB dBm, whichever is less (B=99% OBW in MHz)		
5250MHz-5350MHz	Other Devices	250mW or 11 + 10 × log:0B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1₩		30 dBm/500KHz	



#### **Test Configuration**



#### **Test Procedure**

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to: ≥ 3 RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### **Test Mode**

Please refer to the clause 2.4.

#### Test Result

Please see the Appendix C.



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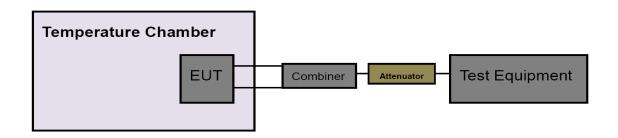


### 3.7. Frequency Stability Measurement

#### Limit

FCC Part 15 Subpart C(15.407)					
Test Item	Limit	Frequency Range(MHz)			
	Specified in the user's manual,	5150~5250			
Peak Excursion Measurement	the transmitter center frequency	5250~5350			
Peak Excursion Measurement	tolerance shall be ±20 ppm maximum for the 5 GHz band	5500~5700			
	(IEEE 802.11n specification)	5725~5850			

#### **Test Configuration**



#### **Test Procedure**

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

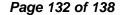
- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10MHz, VBW=10MHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 6.66V to 8.14V percent of the nominal value.
- (6) Extreme temperature is -10°C~40°C
- NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

#### **Test Mode**

Please refer to the clause 2.4.

#### **Test Result**

Please see the Appendix D.





### 3.8. Antenna Requirement

#### **Standard Requirement**

#### FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Test Result**

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.



## 3.9. Dynamic Frequency Selection(DFS)

#### Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

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	Operational Mode				
Requirement	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



#### 1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

#### 2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value	
Non-occupancy period	Minimum 30 minutes	
Channel Availability Check Time	60 seconds	
Channel Move Time	10 seconds See Note 1.	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### **RADAR TEST WAVEFORMS**

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



#### Table 5 Short Pulse Radar Test Waveforms

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Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
		Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\}$		
1	1	Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A		60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
	Agg	gregate (Radar Types 1	-4)	80%	120
Aggregate (Radar Types 1-4) 80% 120  Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time.					

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

would be Round up 
$$\left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18.$$

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698

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11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 - Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz.Next,the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

#### **Calibration of Radar Waveform**

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was

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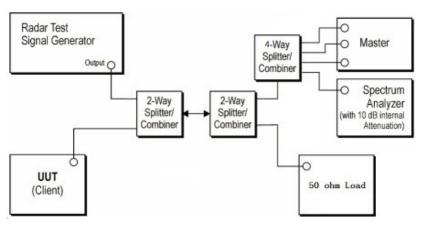


used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.

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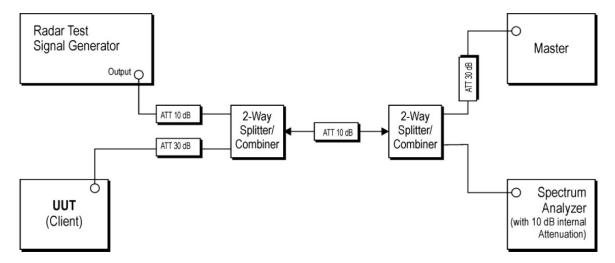
4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was - -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

### **Conducted Calibration Setup**



#### **Test Configuration**

Setup for Client with injection at the Master





Radar Waveform Calib	ration Result
Passed	Not Applicable

#### **Test Procedure**

- 1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
- 3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
- 7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Took Mode	
<u>Test Mode</u>	
Please refer to the clause 2.4.	
<u>Test Results</u>	
Passed	Not Applicable     ■     Not Applicable     Not Applicable
****	**************************************

