

TESTING CENTRE TE	TEST REPOR	T					
FCC ID:	2AC23-DCT2B	(0)					
Test Report No::	TCT220105E050	CT220105E050					
Date of issue:	Feb. 15, 2022						
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB					
Testing location/ address:	TCT Testing Industrial Park Fug Street, Bao'an District Shenzher Republic of China	iao 5th Industrial Zone, Fuhai n, Guangdong, 518103, People's					
Applicant's name::	Hui Zhou Gaoshengda Technol	ogy Co., LTD					
Address:	NO.75 Zhongkai Development A	Area, Huizhou, Guangdong, China					
Manufacturer's name:	Hui Zhou Gaoshengda Technol	ogy Co., LTD					
Address:	NO.75 Zhongkai Development A	Area, Huizhou, Guangdong, China					
Standard(s)::	FCC CFR Title 47 Part 15 Subp KDB 662911 D01 Multiple Trans KDB 789033 D02 General U-NI v02r01	smitter Output v02r01					
Test item description:	WIFI+BT Module						
Trade Mark:	N/A C	N/A C					
Model/Type reference:	DCT2BM2501						
Rating(s)::	DC 3.3V						
Date of receipt of test item	Jan. 05, 2022						
Date (s) of performance of test:	Jan. 05, 2022 ~ Feb. 15, 2022	(3)					
Tested by (+signature):	Brews XU	Frent Marin					
Check by (+signature):	Beryl ZHAO	BOY CTO					

General disclaimer:

Approved by (+signature): Tomsin

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1. General Product Information

1.1. EUT description

Test item description:	WIFI+BT Module
Model/Type reference:	DCT2BM2501
Sample Number:	TCT220105E022-0101
Operation Frequency:	Band 1: 5180 MHz~5240 MHz Band 2A: 5260 MHz~5320 MHz Band 2C: 5500 MHz~5700 MHz Band 3: 5745 MHz~5825 MHz
Channel Bandwidth::	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz, 80MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type:	256QAM, 64QAM, 16QAM, BPSK, QPSK
Antenna Type:	PCB Antenna
Antenna Gain:	Band 1: Antenna 0: 3.51dBi, Antenna 1: 3.13dBi Band 2A: Antenna 0: 3.84dBi, Antenna 1: 3.40dBi Band 2C: Antenna 0: 3.83dBi, Antenna 1: 3.97dBi Band 3: Antenna 0: 3.97dBi, Antenna 1: 3.95dBi
Rating(s):	DC 3.3V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

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1.3. Test Frequency

Band 1

20MHz		40MHz		80	MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		(.c)
48	5240				

Band 2A

20MHz		40MHz		80	MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260	54	5270	58	5290
60	5300	62	5310		
64	5320	()	(C)		(C)

Band 2C

20N	20MHz		40MHz		MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500	102	5510	106	5530
120	5600	118	5590	122	5610
140	5700	134	5670		

Band 3

20N	20MHz		40MHz		MHz
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745	151	5755	155	5775
157	5785	159	5795		
165	5825				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS

§15.407(g)

Note:

1. PASS: Test item meets the requirement.

Frequency Stability

- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.
- 5. For the band 5.15-5.25 GHz, EUT meet the requirements of 15.407(a)(ii).

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PASS



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3. General Information

3.1. Test environment and mode

Operating Environment:			
Temperature:	25.0 °C		
Humidity:	56 % RH		
Atmospheric Pressure:	1010 mbar		
Test Software:			
Software Information:	QATool_Dbg		
Power Level:	1D		
Test Mode:			
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations with max. duty cycle.		

The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

was worst case.	
Mode	Data rate
802.11a(SISO)	6 Mbps
802.11n(HT20) (MIMO)	6.5 Mbps
802.11n(HT40) (MIMO)	13.5 Mbps
802.11ac(VHT20) (MIMO)	6.5 Mbps
802.11ac(VHT40) (MIMO)	13.5 Mbps
802.11ac(VHT80) (MIMO)	29.3 Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation



3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Notebook Computer	G3 3500	00342-36088-9983 2-AAOEM	/	DELL

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an

District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

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Test Results and Measurement Data

5.1. Antenna requirement

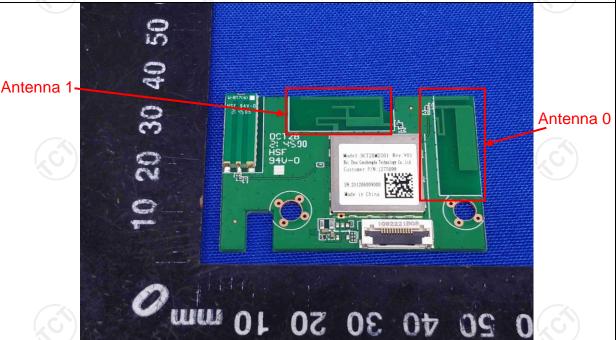
Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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.

E.U.T Antenna:

The EUT has two PCB antennas which permanently attached and unique coupling to the intentional radiator.



Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

Unequal antenna gains, with equal transmit powers, if transmit signals are correlated, then Directional gain of B1= $10\log[(10^{3.51/20}+10^{3.13/20})^2/2] = 6.33dBi;$ Directional gain of B2A = $10\log[(10^{3.84/20}+10^{3.40/20})^2/2] = 6.63dBi;$

Directional gain of B2A = $10\log[(10^{-4.10})^{-7.2}] = 6.03dBi$, Directional gain of B2C = $10\log[(10^{3.83/20}+10^{3.97/20})^2/2] = 6.91dBi$; Directional gain of B3 = $10\log[(10^{3.97/20}+10^{3.95/20})^2/2] = 6.97dBi$.

Note: Above directional gain not applicable to power measurements.

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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207				
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
	Frequency range (MHz)	Limit (c	Áverage			
Limits:	0.15-0.5 0.5-5 5-30	66 to 56* 56 60	56 to 46* 46 50			
	Reference	e Plane				
Test Setup:	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne	AC power E.U.T AC power Filter AC power Test table/Insulation plane EMI Receiver				
Test Mode:	Transmitting Mode					
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Result:	PASS					
1.(4)	(.0)	(.0)				



5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022			
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Mar. 11, 2022			
Line-5	тст	CE-05	N/A	Jul. 07, 2022			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

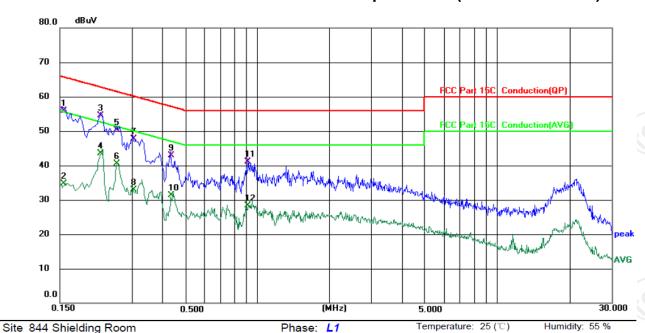


5.2.3. Test data

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Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Please refer to following diagram for individual



Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Notebook Computer Input AC 120 V/60 Hz)

									V/OC 112	-)	
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
	1		0.1556	46.28	9.60	55.88	65.70	-9.82	QP		
ζ	2		0.1556	25.07	9.60	34.67	55.70	-21.03	AVG		
) -	3	*	0.2220	45.05	9.37	54.42	62.74	-8.32	QP		
-	4		0.2220	34.18	9.37	43.55	52.74	-9.19	AVG		
	5		0.2580	41.04	9.35	50.39	61.50	-11.11	QP		
	6		0.2580	31.24	9.35	40.59	51.50	-10.91	AVG		
-	7		0.3020	38.37	9.32	47.69	60.19	-12.50	QP		
-	8		0.3020	23.58	9.32	32.90	50.19	-17.29	AVG		
	9		0.4340	33.71	9.22	42.93	57.18	-14.25	QP		
<	10		0.4340	22.16	9.22	31.38	47.18	-15.80	AVG		
) -	11		0.9180	31.82	9.28	41.10	56.00	-14.90	QP		
-	12		0.9180	19.00	9.28	28.28	46.00	-17.72	AVG		

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

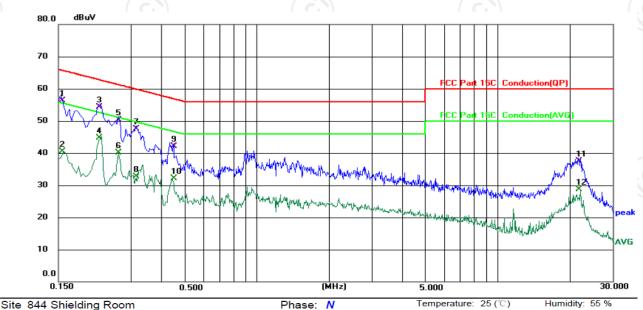
Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Notebook Computer Input AC 120

V/60 Hz)

_	V/00 H2)										
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
	1		0.1548	46.69	9.59	56.28	65.74	-9.46	QP		
	2		0.1548	30.93	9.59	40.52	55.74	-15.22	AVG		
	3		0.2220	45.06	9.31	54.37	62.74	-8.37	QP		
	4	*	0.2220	35.45	9.31	44.76	52.74	-7.98	AVG		
	5		0.2660	41.04	9.34	50.38	61.24	-10.86	QP		
	6		0.2660	30.72	9.34	40.06	51.24	-11.18	AVG		
	7		0.3140	38.22	9.34	47.56	59.86	-12.30	QP		
	8		0.3140	23.46	9.34	32.80	49.86	-17.06	AVG		
	9		0.4500	32.79	9.24	42.03	56.88	-14.85	QP		
	10		0.4500	22.95	9.24	32.19	46.88	-14.69	AVG		
	11		21.6940	27.80	9.79	37.59	60.00	-22.41	QP		
-	12		21.6940	18.97	9.79	28.76	50.00	-21.24	AVG		

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a transmit with antenna 0) was submitted only.



5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046				
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E				
	Frequency Band (MHz)	Limit			
	5180 - 5240	24dBm(250mW) for client device			
Limit:	5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz			
	5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz			
	5745 - 5825	30dBm(1W)			
Test Setup:	Power meter EUT				
Test Mode:	Transmitting mode w	vith modulation			
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				
Remark:	Conducted output power= measurement power +10log(1/x), X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power				



5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022	
Power Meter	Agilent	E4418B	GB43312526	Jul. 07, 2022	
Power Sensor	Agilent	E9301A	MY41497725	Jul. 07, 2022	
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022	



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5.3.3. Test Data

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Configuration Bar	nd 1 (5180 - 5240	MHz) / Anten	na 0+Antenna 1				
Mode	Test channel		m Conducted (Autput Power (dBr	Limit	Result		
Wiodo		Ant0	Ant1	Total	(dBm)	. 100011	
11a	CH36	14.06	14.63	1	24	PASS	
11a	CH40	13.55	14.26	1	24	PASS	
11a	CH48	14.36	14.50	1	24	PASS	
11n(HT20)	CH36	11.37	12.12	14.77	24	PASS	
11n(HT20)	CH40	11.05	10.75	13.91	24	PASS	
11n(HT20)	CH48	11.63	10.87	14.28	24	PASS	
11n(HT40)	CH38	12.13	13.51	15.88	24	PASS	
11n(HT40)	CH46	12.85	13.47	16.18	24	PASS	
11ac(VHT20)	CH36	11.41	12.27	14.87	24	PASS	
11ac(VHT20)	CH40	10.91	12.15	14.58	24	PASS	
11ac(VHT20)	CH48	11.50	12.08	14.81	24	PASS	
11ac(VHT40)	CH38	12.37	13.47	15.97	24	PASS	
11ac(VHT40)	CH46	12.99	13.21	16.11	24	PASS	
11ac(VHT80)	CH42	11.37	12.14	14.78	24	PASS	

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for Nant ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(Nant/Nss) dB or 3 dB, whichever is less, for 20-MHz channel widths with Nant≥ 5.

Because $N_{ANT}=2$, so $Array\ Gain=0$, $Directional\ gain=G_{ANT}+Array\ Gain<6dBi$, power limit=24dBm.



Configuration Band 2A (5260 - 5320 MHz) / Antenna 0+Antenna 1										
Mode	Test		Conducted out Power (d		26 dB Bandwidth	11dBm+ 10logB	Limit	Result		
	channel	Ant0	Ant1	Total	(MHz)	(dBm)	(dBm)			
11a	CH52	13.33	14.57	1	25.61	25.08	24	PASS		
11a	CH60	13.15	14.33	1	20.77	24.17	24	PASS		
11a	CH64	13.72	14.17	/	20.27	24.07	24	PASS		
11n(HT20)	CH52	12.33	13.35	15.88	23.83	24.77	24	PASS		
11n(HT20)	CH60	12.06	13.11	15.63	20.58	24.13	24	PASS		
11n(HT20)	CH64	12.57	13.02	15.81	20.46	24.11	24	PASS		
11n(HT40)	CH54	12.11_	14.09	16.22	41.27	27.16	24	PASS		
11n(HT40)	CH62	12.64	14.15	16.47	40.32	27.06	24	PASS		
11ac(VHT20)	CH52	12.32	13.26	15.83	24.53	24.90	24	PASS		
11ac(VHT20)	CH60	12.03	13.10	15.61	20.74	24.17	24	PASS		
11ac(VHT20)	CH64	12.56	12.82	15.70	20.48	24.11	24	PASS		
11ac(VHT40)	CH54	12.15	14.34	16.39	41.89	27.22	24	PASS		
11ac(VHT40)	CH62	12.59	14.17	16.46	40.72	27.10	24	PASS		
11ac(VHT80)	CH58	11.25	13.16	15.32	79.69	30.01	24	PASS		

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \ge 5$. Because $N_{\text{ANT}} = 2$, so Array Gain = 0, Directional gain = $G_{\text{ANT}} + A_{\text{TRAY}} = 0$ Gain $C_{\text{ANT}} = 0$ Gain C_{ANT}

Note: The maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz



Configuration Ba	Test	Maximum	Conducted ut Power (c	(Average)	26 dB Bandwidth	11dBm+ 10logB	Limit	Result
Mode	channel	Ant0	Ant1	Total	(MHz)	(dBm)	(dBm)	Result
11a	CH100	14.78	14.25	1	20.56	24.13	24	PASS
11a	CH120	14.37	14.07	1	20.17	24.05	24	PASS
11a	CH140	14.46	14.16	/	20.23	24.06	24	PASS
11n(HT20)	CH100	13.56	13.28	16.43	20.55	24.13	24	PASS
11n(HT20)	CH120	13.18	13.03	16.12	20.57	24.13	24	PASS
11n(HT20)	CH140	13.34	13.09	16.23	20.50	24.12	24	PASS
11n(HT40)	CH102	13.91	13.48	16.71	40.67	27.09	24	PASS
11n(HT40)	CH118	13.33	13.30	16.33	40.63	27.09	24	PASS
11n(HT40)	CH134	13.19	13.21	16.21	40.44	27.07	24	PASS
11ac(VHT20)	CH100	13.60	13.11	16.37	20.53	24.12	24	PASS
11ac(VHT20)	CH120	13.11	13.09	16.11	20.58	24.13	24	PASS
11ac(VHT20)	CH140	13.32	13.00	16.17	20.51	24.12	24	PASS
11ac(VHT40)	CH102	13.86	12.80	16.37	40.69	27.09	24	PASS
11ac(VHT40)	CH118	13.39	12.63	16.04	40.53	27.08	24	PASS
11ac(VHT40)	CH134	13.27	12.55	15.94	40.43	27.07	24	PASS
11ac(VHT80)	CH106	12.83	11.78	15.35	79.95	30.03	24	PASS
11ac(VHT80)	CH122	12.06	11.36	14.73	80.01	30.03	24	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for Nant≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \ge 5$. Because $N_{\text{ANT}} = 2$, so Array Gain = 0, Directional gain = $G_{\text{ANT}} + A$ rray Gain < 6dBi, power limit = 24dBm.

Note : The maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm \pm 10 log B, where B is the 26 dB emission bandwidth in megahertz

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Configuration Band 3 (5745 - 5825 MHz) / Antenna 0+Antenna 1									
Mode	Test channel	Maximun Ou	Limit	Result					
Wiode		Ant0	Ant1	Total	(dBm)	rtoodit			
11a	CH149	14.61	14.04	/	30	PASS			
11a	CH157	14.68	14.29	/	30	PASS			
11a	CH165	14.16	14.17	/	30	PASS			
11n(HT20)	CH149	13.54	13.56	16.56	30	PASS			
11n(HT20)	CH157	13.53	13.53	16.54	30	PASS			
11n(HT20)	CH165	13.16	12.97	16.08	30	PASS			
11n(HT40)	CH151	13.65	13.64	16.66	30	PASS			
11n(HT40)	CH159	13.76	13.79	16.79	30	PASS			
11ac(VHT20)	CH149	13.49	13.48	16.50	30	PASS			
11ac(VHT20)	CH157	13.41	13.64	16.54	30	PASS			
11ac(VHT20)	CH165	13.03	13.16	16.11	30	PASS			
11ac(VHT40)	CH151	13.39	13.64	16.53	30	PASS			
11ac(VHT40)	CH159	13.33	13.85	16.61	30	PASS			
11ac(VHT80)	CH155	12.30	12.69	15.51	30	PASS			

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for Nant≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \ge 5$. Because $N_{ANT}=2$, so Array Gain = 0, Directional gain = G_{ANT} + Array Gain < 6dBi, power limit = 30dBm.



5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049					
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 					
Test Result:	PASS					

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

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5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section					
rest Requirement.	2.1049					
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D					
Limit:	No restriction limits					
Test Setup:						
	Spectrum Analyzer					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. Measure and record the results in the test report. 					
Test Result:	PASS					

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

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5.6. Power Spectral Density

5.6.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
Combiner Box	Ascentest	AT890-RFB	N/A	Jul. 07, 2022

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5.6.3. Test data

Configuration Bar	nd 1 (5180 - 5240	MHz) / Anten	na 0+Antenna 1			
Mode	Toot channel	Pov	ver Spectral Dens	sity	Limit	Result
Wode	Test channel	Ant0	Ant1	Total	(dBm/MHz)	Result
11a	CH36	3.44	4.07	/	11	PASS
11a	CH40	3.08	3.70	/	11	PASS
11a	CH48	3.74	3.90	160	11	PASS
11n(HT20)	CH36	0.40	0.76	3.59	10.67	PASS
11n(HT20)	CH40	0.37	0.21	3.30	10.67	PASS
11n(HT20)	CH48	0.58	0.19	3.40	10.67	PASS
11n(HT40)	CH38	-1.66	-0.13	2.18	10.67	PASS
11n(HT40)	CH46	-0.80	-0.17	2.54	10.67	PASS
11ac(VHT20)	CH36	0.32	0.81	3.58	10.67	PASS
11ac(VHT20)	CH40	0.26	0.82	3.56	10.67	PASS
11ac(VHT20)	CH48	0.38	0.77	3.59	10.67	PASS
11ac(VHT40)	CH38	-1.50	-0.21	2.20	10.67	PASS
11ac(VHT40)	CH46	-0.76	-0.45	2.41	10.67	PASS
11ac(VHT80)	CH42	-5.22	-4.52	-1.85	10.67	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01: For power spectral density (PSD) measurements when antenna gains are not equal, Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] dBi = 6.33 > 6$, So $\lim_{t \to 1} 1 - (6.33-6) = 10.67$



Configuration Bar	nd 2A (5260-5320	MHz) /Antenna	0+Antenna 1			
Mode	Test channel	Powe	Power Spectral Density			
Mode	rest charmer	Ant0	Ant1	Total	(dBm/MHz)	Result
11a	CH52	3.10	4.02	/	11	PASS
11a	CH60	2.66	3.86	1	11.0	PASS
11a	CH64	3.23	3.71	/	11	PASS
11n(HT20)	CH52	1.63	2.63	5.17	10.37	PASS
11n(HT20)	CH60	1.35	2.52	4.98	10.37	PASS
11n(HT20)	CH64	1.96	2.32	5.15	10.37	PASS
11n(HT40)	CH54	-1.52	0.43	2.57	10.37	PASS
11n(HT40)	CH62	-1.04	0.41	2.76	10.37	PASS
11ac(VHT20)	CH52	1.69	2.58	5.17	10.37	PASS
11ac(VHT20)	CH60	1.44	2.38	4.95	10.37	PASS
11ac(VHT20)	CH64	1.86	2.21	5.05	10.37	PASS
11ac(VHT40)	CH54	-1.48	0.62	2.71	10.37	PASS
11ac(VHT40)	CH62	-1.07	0.52	2.81	10.37	PASS
11ac(VHT80)	CH58	-5.34	-3.44	-1.28	10.37	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01: For power spectral density (PSD) measurements when antenna gains are not equal, Directional gain = $10 \log[(10^{G^{1/20}} + 10^{G^{2/20}})^2 / N_{ANT}] dBi = 6.63 > 6$, So $\lim_{t \to \infty} (6.63-6) = 10.37$





Configuration Bar			ver Spectral Dens	sitv		
Mode	Test channel		ver Spectral Dens	Sily	Limit	Result
		Ant0	Ant1	Total	(dBm/MHz)	
11a	CH100	4.21	3.84	/	11	PASS
11a	CH120	3.89	3.64	1	11.0	PASS
11a	CH140	3.93	3.49	/	11	PASS
11n(HT20)	CH100	2.98	2.55	5.78	10.09	PASS
11n(HT20)	CH120	2.48	2.32	5.41	10.09	PASS
11n(HT20)	CH140	2.63	2.38	5.52	10.09	PASS
11n(HT40)	CH102	0.19	-0.10	3.06	10.09	PASS
11n(HT40)	CH118	-0.28	-0.32	2.71	10.09	PASS
11n(HT40)	CH134	-0.59	-0.44	2.50	10.09	PASS
11ac(VHT20)	CH100	2.96	2.46	5.73	10.09	PASS
11ac(VHT20)	CH120	2.46	2.33	5.41	10.09	PASS
11ac(VHT20)	CH140	2.49	2.27	5.39	10.09	PASS
11ac(VHT40)	CH102	0.20	-0.83	2.73	10.09	PASS
11ac(VHT40)	CH118	-0.20	-0.95	2.45	10.09	PASS
11ac(VHT40)	CH134	-0.45	-1.13	2.23	10.09	PASS
11ac(VHT80)	CH106	-3.94	-4.99	-1.42	10.09	PASS
11ac(VHT80)	CH122	-4.66	-5.41	-2.01	10.09	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01:

For power spectral density (PSD) measurements when antenna gains are not equal, Directional gain = $10 \log[(10^{G^{1/20}} + 10^{G^{2/20}})^2 / N_{ANT}] dBi = 6.91 > 6$, So limit=11 - (6.91-6) = 10.09



Configuration Bar	nd 3(5745-5825M	Hz) / Antenna	0+Antenna 1			
Mada	Took ahammal	Powe	er Spectral Dens	sity	Limit	Desuit
Mode	Test channel	Ant0	Ant1	Total	(dBm/MHz)	Result
11a	CH149	1.40	0.87	1	30	PASS
11a	CH157	1.48	1.08	1	30	PASS
11a	CH165	0.94	0.87	/	30	PASS
11n(HT20)	CH149	0.12	0.14	3.14	29.03	PASS
11n(HT20)	CH157	0.18	0.31	3.26	29.03	PASS
11n(HT20)	CH165	-0.35	-0.33	2.67	29.03	PASS
11n(HT40)	CH151	-2.70	-2.71	0.31	29.03	PASS
11n(HT40)	CH159	-2.70	-2.49	0.42	29.03	PASS
11ac(VHT20)	CH149	0.02	0.10	3.07	29.03	PASS
11ac(VHT20)	CH157	0.01	0.39	3.21	29.03	PASS
11ac(VHT20)	CH165	-0.29	-0.20	2.77	29.03	PASS
11ac(VHT40)	CH151	-3.00	-2.72	0.15	29.03	PASS
11ac(VHT40)	CH159	-2.99	-2.62	0.21	29.03	PASS
11ac(VHT80)	CH155	-7.31	-6.84	-4.06	29.03	PASS

Refer to KDB 662911 D01 Multiple Transmitter Output v02r01: For power spectral density (PSD) measurements when antenna gains are not equal, Directional gain = $10 \log[(10^{G^{1/20}} + 10^{G^{2/20}})^2 / N_{ANT}] dBi=6.97 > 6$, So limit=30 - (6.97-6) = 29.03



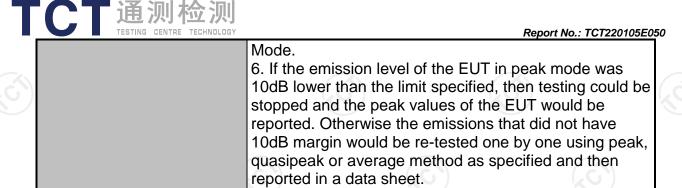


5.7. Band edge

5.7.1. Test Specification

		/			
Test Requirement:	FCC CFR47 Pa	rt 15E Sectio	n 15.407		
Test Method:	ANSI C63.10 20)13			
	In un-restricted ba For Band 1&2A&2 For Band 3:		Z	(0)	
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	
	< 5650	-27	5850~5855	27~15.6	
Limit:	5650~5700	-27~10	5855~5875	15.6~10	
Lilling.	5700~5720	10~15.6	5875~5925	10~-27	
	5720~5725	15.6~27	> 5925	-27	
	E[dBµV/m] = EIR In restricted band:	(,0)			
	Detect		Limit@		
	Peak AVG		74dBµ 54dBµ		
Test Made:	(Turmana)	Ground Reference Pa	Arbar Contolor	WORNDAMM	
Test Mode:					
Test Procedure:	Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The tabl was rotated 360 degrees to determine the position of th highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold				

Report No.: TCT220105E050



PASS

Test Result:





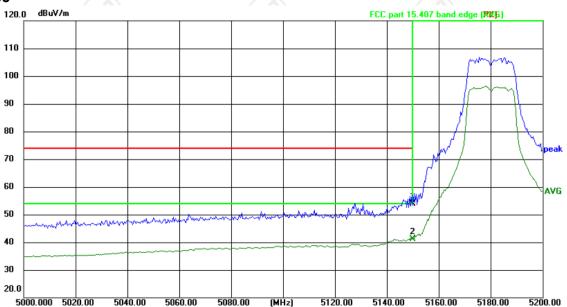
5.7.2. Test Instruments

	Radiated Er	nission Test Sit	e (966)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
EMI Test Receiver	R&S	ESIB7	100197	Jul. 07, 2022	
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022	
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022	
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Mar. 11, 2022	
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Apr. 08, 2022	
Pre-amplifier	HP	8447D	2727A05017	Jul. 07, 2022	
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022	
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023	
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022	
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

Report No.: TCT220105E050

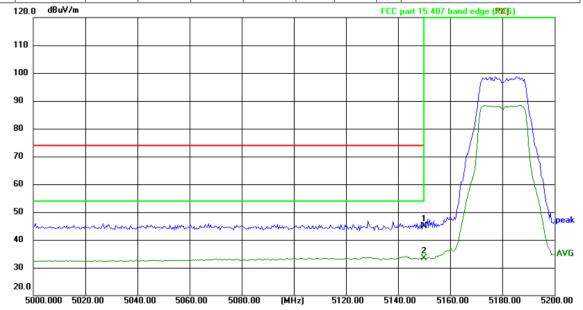


5.7.3. Test Data AC-5180



Site Polarization: Horizontal Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

	•		• , ,						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	61.99	-8.04	53.95	74.00	-20.05	peak	Р	
2 *	5150.000	49.15	-8.04	41.11	54.00	-12.89	AVG	Р	



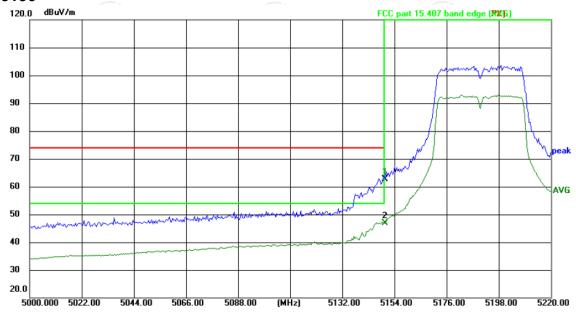
Site Polarization: Vertical Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	52.98	-8.04	44.94	74.00	-29.06	peak	Р	
2 *	5150.000	41.36	-8.04	33.32	54.00	-20.68	AVG	Р	

Report No.: TCT220105E050

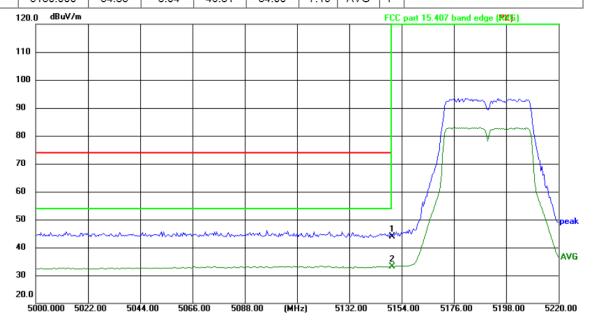


AC40-5190



Site Polarization: Horizontal Temperature: 24($^{\circ}$) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	70.64	-8.04	62.60	74.00	-11.40	peak	Р	
2 *	5150 000	54 85	-8 04	46.81	54 00	-7.19	AVG	Р	

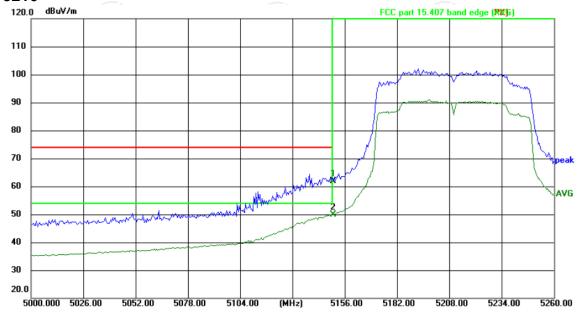


Site Polarization: Vertical Temperature: 24($^{\circ}$) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	52.01	-8.04	43.97	74.00	-30.03	peak	Р	
2 *	5150.000	41.09	-8.04	33.05	54.00	-20.95	AVG	Р	

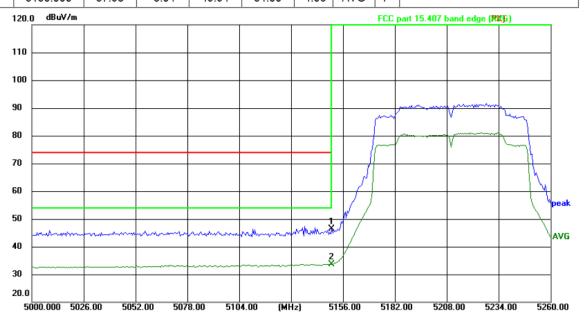


AC80-5210



Site Polarization: Horizontal Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

	-								
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	5150.000	69.85	-8.04	61.81	74.00	-12.19	peak	Р	
2 *	5150.000	57.98	-8.04	49.94	54.00	-4.06	AVG	Р	

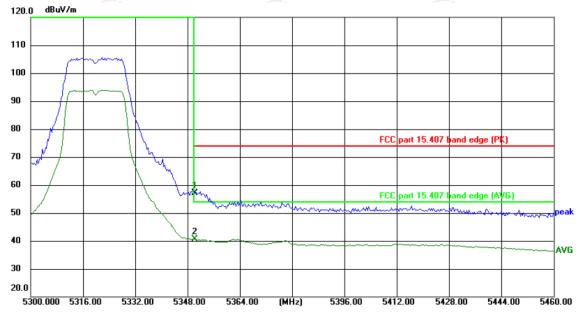


Site Polarization: Vertical Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5150.000	54.53	-8.04	46.49	74.00	-27.51	peak	Р	
2 *	5150.000	41.66	-8.04	33.62	54.00	-20.38	AVG	Р	

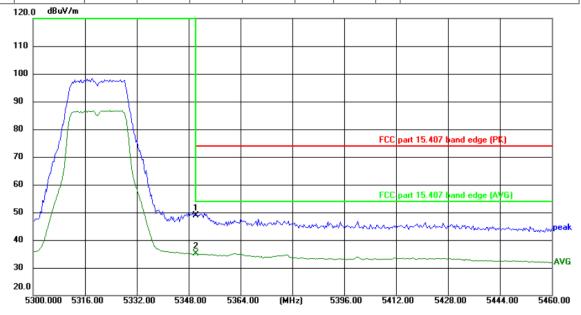


AC20-5320



24(℃) Site Polarization: Horizontal Temperature: Power: AC 120 V/60 Hz Limit: FCC part 15.407 band edge (PK) Humidity: 52 % Frequency Reading Factor Level Limit Margin Detector P/F

No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 5350.000 65.20 -8.09 57.11 74.00 1 -16.89 Ρ peak 2 5350.000 48.67 -8.09 40.58 54.00 -13.42 AVG Р

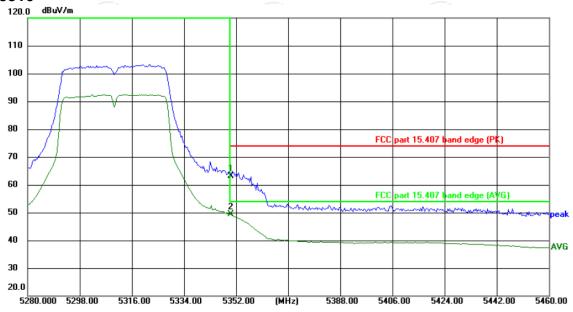


Site Polarization: Vertical Temperature: 24($^{\circ}$) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	5350.000	57.04	-8.09	48.95	74.00	-25.05	peak	Р	
2 *	5350.000	43.19	-8.09	35.10	54.00	-18.90	AVG	Р	

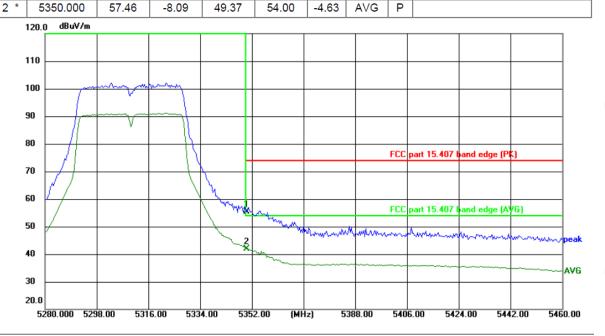


AC40-5310



Site Polarization: Horizontal Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

Reading Limit Frequency Factor Level Margin No. Detector P/F Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 5350,000 71.19 -8.09 63.10 74.00 -10.90 Р peak

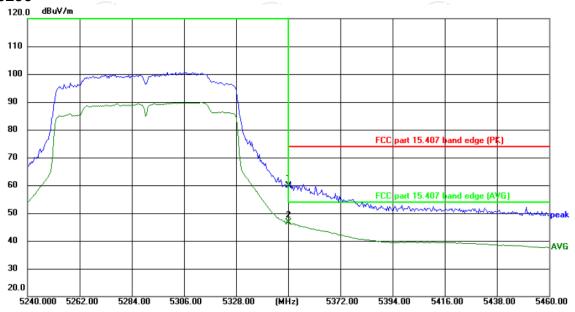


Site Polarization: Vertical Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

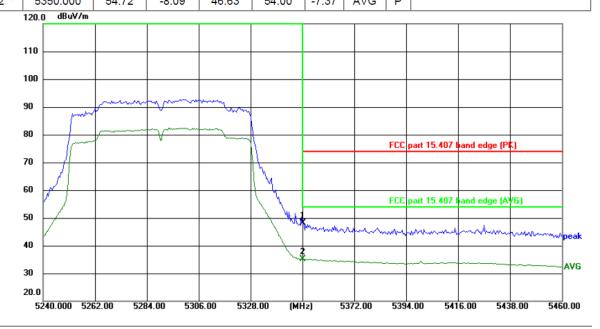
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	63.36	-8.09	55.27	74.00	-18.73	peak	Р	
2 *	5350.000	50.09	-8.09	42.00	54.00	-12.00	AVG	Р	



AC80-5290



Site Polarization: Horizontal Temperature: 24(℃) AC 120 V/60 Hz Limit: FCC part 15.407 band edge (PK) Power: Humidity: 52 % Frequency Reading Factor Level Limit Margin P/F No. Detector Remark (dB) (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) 5350.000 67.95 74.00 -8.09 59.86 -14.14 Р 1 peak 5350.000 54.00 -7.37 Р 2 54.72 -8.09 46.63 AVG

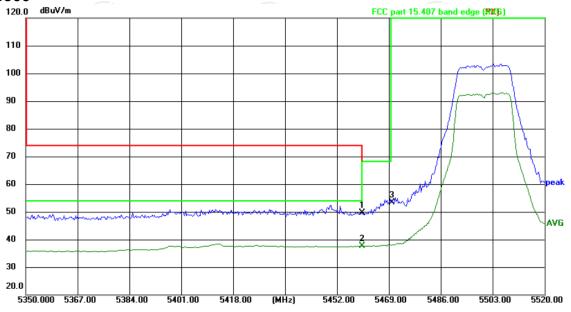


Site Polarization: Vertical Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5350.000	56.18	-8.09	48.09	74.00	-25.91	peak	Р	
2 *	5350.000	43.19	-8.09	35.10	54.00	-18.90	AVG	Р	



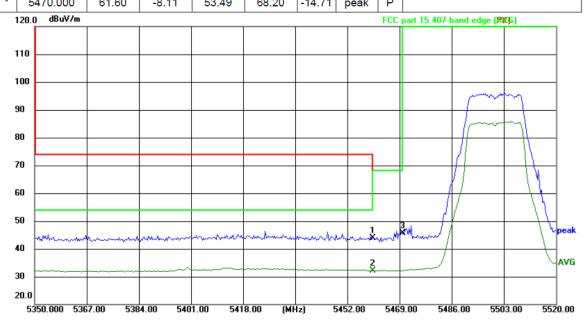
AC20-5500



Site Polarization: Horizontal Temperature: 24(°C)

Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

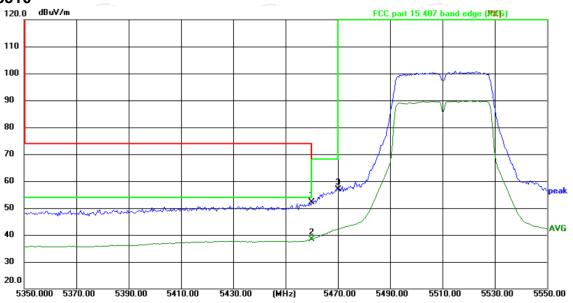
Emme.	r oo part ro.	TOT Dulla	Juge (i it)		1 0110				
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	57.71	-8.11	49.60	68.20	-18.60	peak	Р	
2	5460.000	45.63	-8.11	37.52	54.00	-16.48	AVG	Р	
3 *	5470 000	61.60	_Q 11	53.40	68.20	-1/ 71	noak	Ь	



Site					Polari	zation:	Vertica	al	Temperature: 24(°C)
Limit:	FCC part 15.4	107 band e	edge (PK)		Power	r: AC	120 V/60	Hz	Humidity: 52 %
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	52.04	-8.11	43.93	68.20	-24.27	peak	Р	
2 *	5460.000	40.25	-8.11	32.14	54.00	-21.86	AVG	Р	
3	5470.000	53.84	-8.11	45.73	68.20	-22.47	peak	Р	

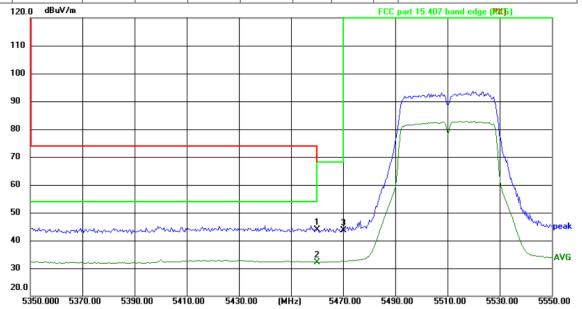


AC40-5510



Site Polarization: Horizontal Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

Entitie.	i oo pait io	for balla c	age (i it)		1 0 11 0				
No.	Frequency (MHz)	Reading (dBuV)	l .	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	5460.000	60.20	-8.11	52.09	68.20	-16.11	peak	Р	
2	5460.000	46.61	-8.11	38.50	54.00	-15.50	AVG	Р	
3 *	5470.000	64.93	-8.11	56.82	68.20	-11.38	peak	Р	

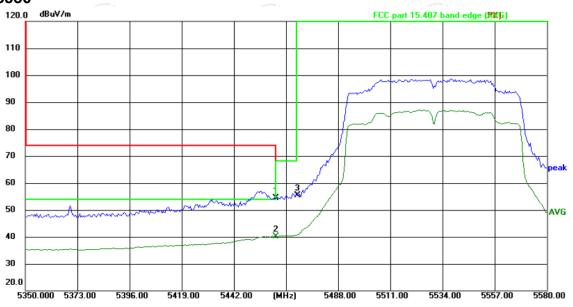


Site Polarization: Vertical Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	5460.000	51.87	-8.11	43.76	68.20	-24.44	peak	Р	
2 *	5460.000	40.29	-8.11	32.18	54.00	-21.82	AVG	Р	
3	5470.000	51.76	-8.11	43.65	68.20	-24.55	peak	Р	

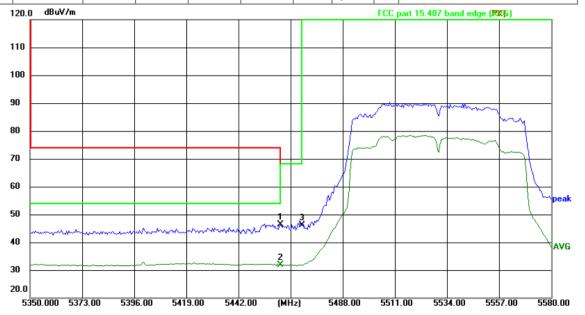


AC80-5530



Site Polarization: Horizontal Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

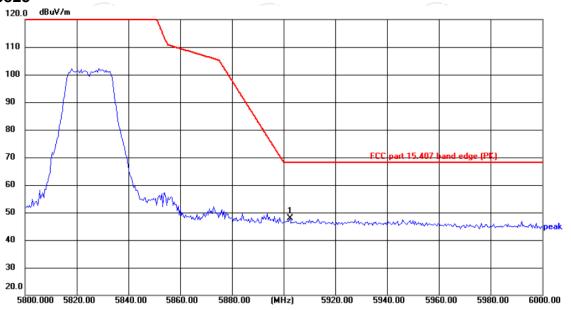
	. Co part io.		Juge (/	,					*
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	5460.000	62.42	-8.11	54.31	68.20	-13.89	peak	Р	
2	5460.000	48.24	-8.11	40.13	54.00	-13.87	AVG	Р	
3 *	5470.000	63.43	-8.11	55.32	68.20	-12.88	peak	Р	



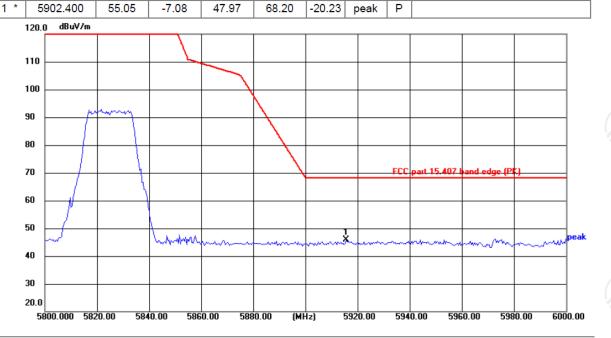
Site					Polari	zation:	Vertica	al	Temperature: 24(°℃)	
Limit:	FCC part 15.4	107 band e	edge (PK)		Power	r: AC	120 V/60	Humidity: 52 %		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
1 *	5460.000	54.56	-8.11	46.45	68.20	-21.75	peak	Р		
2	5460.000	39.89	-8.11	31.78	54.00	-22.22	AVG	Р		
3	5470.000	54.30	-8.11	46.19	68.20	-22.01	peak	Р		



AC20-5825



Site Temperature: 24(℃) Polarization: Horizontal Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 % Margin Frequency Reading Factor Level Limit Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB)

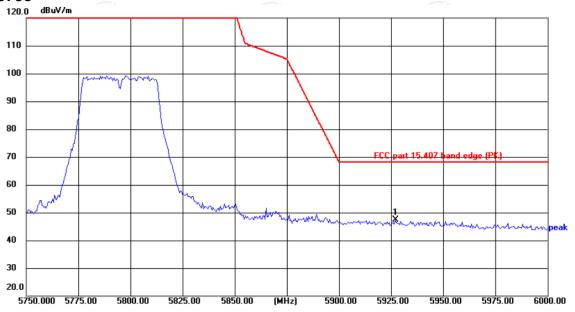


Site Polarization: Vertical Temperature: 24($^{\circ}$ C) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5915.600	52.86	-7.05	45.81	68.20	-22.39	peak	Р	

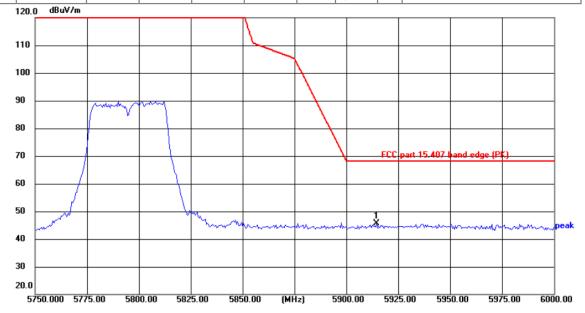


AC40-5795



Site Polarization: Horizontal Temperature: 24($^{\circ}$) Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

Frequency Reading Factor Level Limit Margin No. Detector P/F Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 54.44 -7.02 47.42 68.20 1 * 5927.000 -20.78 peak Р



Site Polarization: Vertical Temperature: 24(°C)
Limit: FCC part 15.407 band edge (PK) Power: AC 120 V/60 Hz Humidity: 52 %

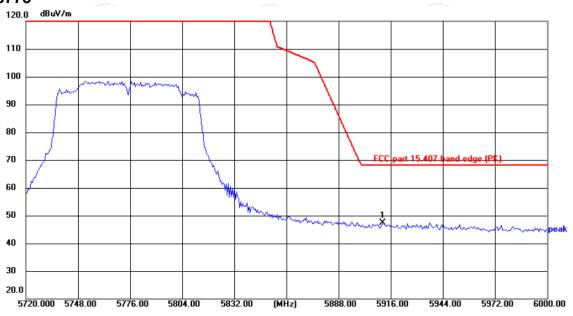
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5914.500	52.57	-7.05	45.52	68.20	-22.68	peak	Р	



AC80-5775

40

30 20.0



Site Polarization: Horizontal Temperature: 24(℃) Limit: FCC part 15.407 band edge (PK) AC 120 V/60 Hz Humidity: 52 % Power: Frequency Reading Factor Level Limit Margin No. Detector P/F Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 54.52 47.46 68.20 1 * 5911.520 -7.06 -20.74 peak Р dBuV/m 120.0 110 100 90 80 70 60 50

Site			Polari	zation:	Vertica	al	Temperature: 24(°ℂ)		
Limit:	FCC part 15.4	107 band e		Power: AC 120 V/60 Hz			Humidity: 52 %		
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	5918.800	52.59	-7.04	45.55	68.20	-22.65	peak	Р	

(MHz)

5888.00

5916.00

5944.00

5972.00

Note: All modulation (802.11a, 802.11n, 802.11ac) have been tested, only the worst case in 802.11ac be reported.

5832.00

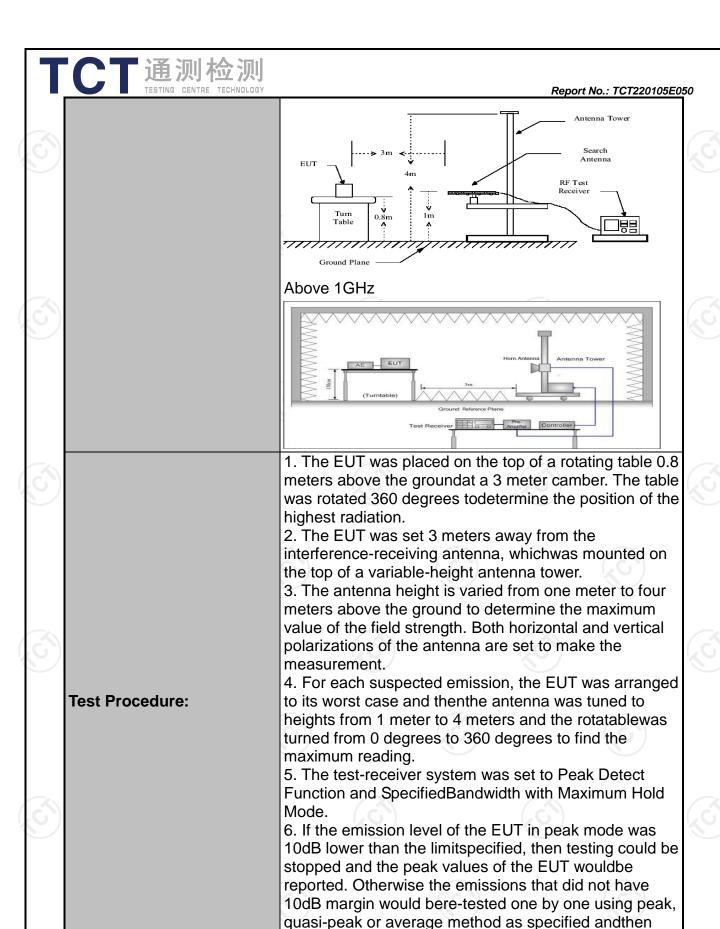
5804.00



5.8. Unwanted Emissions

5.8.1. Test Specification

		<u> </u>		KO)	
Test Requirement:	FCC CFR47	Part 15 S	Section 15.	407 & 1	5.209 & 15.205
Test Method:	KDB 789033	D02 v02	r01		
Frequency Range:	9kHz to 40G	Hz	(C)		(20)
Measurement Distance:	3 m	•			
Antenna Polarization:	Horizontal &	Vertical			
Operation mode:	Transmitting	mode wit	h modulat	ion	
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-peal Quasi-peal		VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value
	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quasi-peak Value
		Peak	1MHz	3MHz	Peak Value
	Above 1GHz	Peak	1MHz	10Hz	Average Value
Limit:	general field below table, In restricted Frequer Above 7 Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960 In un-restrict	bands:	Detective Pea AVC Field Strengtl (microvolts/m 2400/F(KHz) 24000/F(KHz) 30 100 150 200 500	h neter)	Limit@3m 74dBµV/m 54dBµV/m Measurement Distance (meters) 300 3 30 3 3 3
Test setup:	For radiated	Distance = 3m Turn table	s below 30	OMHz	Pre -Amplifier Receiver



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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

reported in a data sheet.

PASS

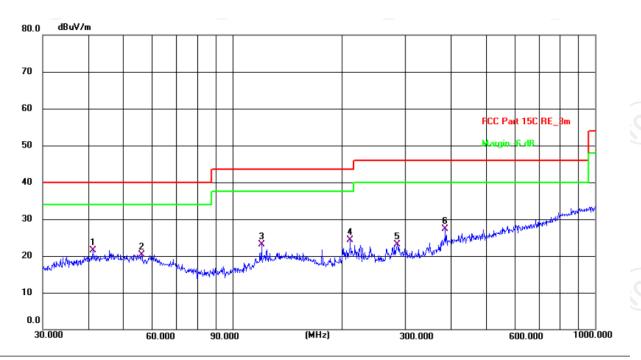
Test results:



5.8.2. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

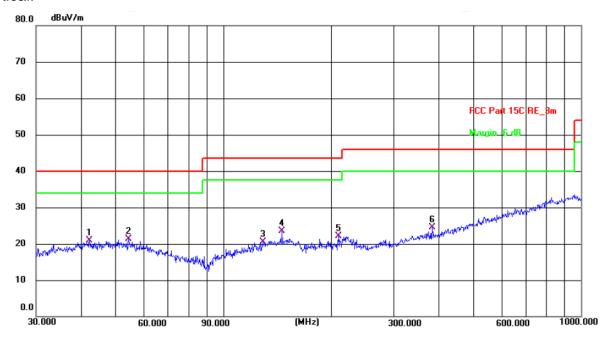


Site #2 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 23.8(C) Humidity: 47 % Limit: FCC Part 15C RE_3m Power: DC 5 V(Notebook Computer Input AC 120 V/60 Hz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1 *	41.2764	7.61	13.98	21.59	40.00	-18.41	QP	Р	
2	56.1974	7.02	13.38	20.40	40.00	-19.60	QP	Р	
3	120.2766	11.07	11.98	23.05	43.50	-20.45	QP	Р	
4	211.5261	13.28	10.94	24.22	43.50	-19.28	QP	Р	
5	284.9766	8.98	14.08	23.06	46.00	-22.94	QP	Р	
6	386.6338	10.52	16.79	27.31	46.00	-18.69	QP	Р	



Vertical:



Site #2 3m Anechoic Chamber Polarization: Vertical Temperature: 23.8(C) Humidity: 47 %

Limit: FCC Part 15C RE_3m Power: DC 5 V(Notebook Computer Input AC 120 V/60 Hz)

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
Ì	1	42.3021	6.93	13.95	20.88	40.00	-19.12	QP	Р	
Ī	2 *	54.4515	7.84	13.49	21.33	40.00	-18.67	QP	Р	
ľ	3	129.4677	7.85	12.57	20.42	43.50	-23.08	QP	Р	
ľ	4	145.8608	10.17	13.29	23.46	43.50	-20.04	QP	Р	
	5	210.0481	11.25	10.86	22.11	43.50	-21.39	QP	Р	
1	6	383.9318	7.90	16.69	24.59	46.00	-21.41	QP	Р	

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80) and the worst case Mode (Lowest channel and 802.11a) was submitted only.
- 3.Measurement (dBμV) = Reading level + Correction Factor , correction Factor= Antenna Factor + Cable loss Pre-amplifier.







			M		ype: Band	1			
					5180MHz				
requency	Ant. Pol.	Peak	AV reading	Correction	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	Η	38.55		8.02	46.57		68.2		-21.63
15540	Н	39.38		9.87	49.25		74	54	-4.75
(Н				(<i></i>	
							•		
10360	V	37.34		8.02	45.36		68.2		-22.84
15540	V	39.77		9.87	49.64		74	54	-4.36
	V								
	•			11a CH40	5200MHz				
		Peak		Correction		on Level			
Frequency	Ant. Pol.	reading	AV reading	Factor	Peak	AV	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	Н	40.89		7.97	48.86		68.2		-19.34
15600	XH.	38.50		9.83	48.33		74	54	-5.67
	GH		(.011		40	
							I		
10400	V	40.78		7.97	48.75		68.2		-19.45
15600	V	38.16		9.83	47.99		74	54	-6.01
13000	V	30.10		9.00	47.33		74		-0.01
	V				: 5240MHz				
		Daal							
requency	Ant. Pol.	Peak reading	AV reading	Correction Factor		n Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	38.45		7.97	46.42		68.2		-21.78
15720	NH III	38.73	-4- (1)	9.83	48.56		74	54	-5.44
13720	CH -	30.73		9.03	40.50	<u> </u>		1	-5.44
						-7-			
10100	1/	20.00		7.07	47.05	I	C0 0		20.55
10480	V	39.68		7.97	47.65		68.2		-20.55
15720	V	36.90		9.83	46.73		74	54	-7.27
	V								
					136: <u>5180M</u>		ı		
Frequency	Ant. Pol.	Peak	AV reading	Correction		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak	AV (dDu)//m)	(dBµV/m)	(dBµV/m)	(dB)
10000	- 11					(dBµV/m)	60.0		40.40
10360	H	41.76		8.02	49.78		68.2	 	-18.42
15540	H	38.35	(50)	9.87	48.22	.G")	74	54	-5.78
	Н								
			1		I	1	1		
10360	V	42.02		8.02	50.04		68.2		-18.16
15540	V	38.96		9.87	48.83		74	54	-5.17
	V	7-		(<u> </u>		7-		/
			11r	n(HT20) Ch	H40: 5200M				
requency	Ant. Pol.	Peak	AV reading	Correction		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading	(dBµV)	Factor	Peak	AV	(dBµV/m)	(dBµV/m)	(dB)
` '		(dBµV)	(GDp V)	(dB/m)	(dBµV/m)	(dBµV/m)	` '	(αυμ ۷/111)	<u> </u>
10400	H	41.60	- 	7.97	49.57		68.2	/ A	-18.63
15600	, C H	38.55	(- G)	9.83	48.38	, C- 	74	54	-5.62
	H		-4-			<u></u>			
10400	V	41.42		7.97	49.39		68.2		-18.81
15600	V	38.81		9.83	48.64		74	54	-5.36
	V			((/
A 1	•		i		1 0 1	Ī	1 1 . 5 4 1		

『通测检测

Report No.: TCT220105E050 Peak Correction **Emission Level** AV reading Peak limit Frequency Ant. Pol. **AV** limit Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB)(dBµV) (dB/m) (dBµV/m) (dBµV/m) 7.97 10480 41.51 68.2 -18.72 Н 49.48 15720 Н 39.33 9.83 49.16 74 54 -4.84 Η ٧ 10480 41.20 7.97 68.2 -19.03 ---49.17 ------15720 V 39.79 *ֈ*--, 49.62 4 -4.38 9.83 74 54 V -4-11n(HT40) CH38: 5190MHz Peak Correction **Emission Level** Ant. Pol. **AV** reading Peak limit Frequency **AV** limit Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) dBµV/m) (dBµV/m) 10380 Η 40.54 7.75 48.29 68.2 -19.91 15570 Н 37.86 9.87 47.73 74 54 -6.27 Н ------------------------V 10380 40.81 *[*---7.75 48.56 44-68.2 -19.64 ٧ 9.87 38.72 74 54 -5.41 15570 48.59 ٧ 11n(HT40) CH46: 5230MHz **Emission Level** Peak Correction Ant. Pol. Frequency AV reading Peak limit **AV limit** Margin reading Factor Peak (MHz) H/V $(dB\mu V)$ $(dB\mu V/m)$ (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBuV/m) 10460 41.51 7.97 49.48 68.2 -18.72 Н Η 37.80 9.83 47.63 ---74 54 -6.37 15690 Η 10460 ٧ 41.44 7.97 49.41 68.2 -18.79 15690 38.36 9.83 48.19 74 54 -5.81

	V									
			11a	c(VHT20) C	H36: 5180ľ	MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
10360	Н	41.51		8.02	49.53		68.2		-18.67	
15540	Н	38.42		9.87	48.29		74	54	-5.71	
	Н							/,		
	. ()		(.C.)		(.C)		(,c)		
10360	V	39.15		8.02	47.17	-/-	68.2	-4-	-21.03	
15540	V	39.36		9.87	49.23		74	54	-4.77	
	V									
	11ac(VHT20) CH40: 5200MHz									

		· • •		,	(456.11)	(426 17)			
10400	Н	40.26		7.97	48.23		68.2		-19.97
15600	Н	39.39		9.83	49.22		74	54	-4.78
/	Н		7					-/-	
	(0)		KO)	((0)		KO	
10400	V	39.15		7.97	47.12		68.2		-21.08
15600	V	38.23		9.83	48.06		74	54	-5.94
	V								

Emission Level

Peak

Peak limit

 $(dB\mu V/m) \mid (dB\mu V/m)$

AV limit

Margin

(dB)

Correction

Factor

(dB/m)

Peak

reading

(dBµV)

Ant. Pol.

H/V

Frequency

(MHz)

AV reading

(dBµV)



		Dools	T	_ `	H48: 5240				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10480	Н	37.41		7.97	45.38		68.2		-22.82
15720	H	38.26		9.83	48.09		74	54	-5.91
/	₹H		(/	/		K	
	(O)					((0)		(20)	
10480	V	39.29		7.97	47.26		68.2		-20.94
15720	V	38.75		9.83	48.58		74	54	-5.42
	V								
			11a	c(VHT40) C	H38: 5190	MHz			
	Ant Dal	Peak	A \ /	Correction	Emissio	n Level	Daala lissit	A	N.4 = ==::=
Frequency (MHz)	Ant. Pol. H/V	reading	AV reading (dBµV)	Factor	Peak	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
` ,		(dBµV)	(35,17)	(dB/m)	(dBµV/m)	(dBµV/m)	` ' '	(32,711)	` ,
10380	H	40.99		7.75	48.74		68.2		-19.46
15570	Н	39.18		9.87	49.05		74	54	-4.95
(H		1 (-C)		(·C -}-		<u> </u>	
				7					
10380	V	39.09		7.75	46.84		68.2		-21.36
15570	V	38.84		9.87	48.71		74	54	-5.29
	V								
			11a	, ,	H46: 5230I				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10460	Н	39.35		7.97	47.32		68.2		-20.88
15690	Н	39.12	<i>/</i> /\	9.83	48.95	<u> </u>	74	54	-5.05
	O H		(20)			(O 1)		[20]	
10460	V	39.58		7.97	47.55		68.2		-20.65
15690	V	38.39		9.83	48.22		74	54	-5.78
	V				×				/
			1	1ac(VHT80) CH42:521	0			
	And Dal	Peak	A \ /	Correction	Emissio	n Level	Da ala lissait	A	N.4 = ===!:=
requency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10420	TA H	41.91	- 	7.96	49.87	X	68.2	- 	-18.33
15630	C H	40.48	(- C)	9.84	50.32	.C 	74	54	-3.68
1	Н					<u></u>			
<u></u>		-		•	•	•	-		
10420	V	41.65		7.96	49.61		68.2		-18.59
15630	V	39.39		9.84	49.23		74	54	-4.77
	V	(6-7		(c					(

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





			Mo		ype: Band 2	2A			
					: 5260MHz				
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	on Level	Peak limit	AV limit	Margin
Frequency (MHz)	H/V	reading (dBµV)	(dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10520	Н	38.08		7.97	46.05		68.2		-22.15
15780	H	36.73		9.83	46.56		74	54	-7.44
(Н				(
				7			•		
10520	V	42.15		7.97	50.12		68.2		-18.08
15780	V	38.82		9.83	48.65		74	54	-5.35
	V								
	•				: 5300MHz				
		Peak		Correction		on Level	I		
Frequency	Ant. Pol.	reading	AV reading	Factor	Peak	AV	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10560	H	38.94		7.98	46.92		74	54	-7.08
15840	XH	38.68		9.85	48.53	/\	74	54	-5.47
13640	GH	30.00		9.00	40.33				-5.47
	7		170			KY T		770	
40500	· //	20.00		7.00	47.04		7.4	F.4	0.00
10560	V	39.66		7.98	47.64		74	54	-6.36
15840	V	38.28		9.85	48.13		74	54	-5.87
	V				Z				
					: 5320MHz				
Frequency	Ant. Pol.	Peak	AV reading	Correction		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10640	Н	40.49		7.98	48.47		74	54	-5.53
15960	H	37.12	A)	9.85	46.97	-	74	54	-7.03
(OH		(70)			(0.1		120	
							I.		/
10640	V	39.71		7.98	47.69		74	54	-6.31
15960	V	35.53		9.85	45.38		74	54	-8.62
				5.00	40.00				
	V			n/UT20) C	52: 5260MF				
		Peak		Correction		on Level			
Frequency	Ant. Pol.	reading	Av reading	Factor	Peak	AV	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10520	Ц	` ,		,			68.2		19.64
	H	41.59		7.97	49.56				-18.64
15780	H	38.66	- (50)	9.83	48.49	(C ²)	74	54	-5.51
1	Н								
40=			, 			1			
10520	V	38.18		7.97	46.15		68.2		-22.05
15780	V	36.50		9.83	46.33		74	54	-7.67
	V			(/
			11r	n(HT20) Ch	160: 5300M	lHz			
Frequency	Ant Dal	Peak	Λ\/ ro o dire	Correction	Emissio	on Level	Dook limit	Λ\/ lima : t	Morain
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10560							71	EA	6.07
10560	H	39.65		7.98	47.63		74	54	-6.37
15840	CH	38.71	(2 0)	9.85	48.56	<u> </u>	74	54	-5.44
}	Н					-/-			
		40.29		7.98	48.27		74	54	-5.73
10560	\/				- TU.E.		, , , ,	U-T	0.10
10560	V						7/	5.1	-4.42
10560 15840	V V	39.73		9.85	49.58		74	54	-4.42

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15840

10560

15840

Н

Н

37.51

37.51

36.68

Report No.: TCT220105E050 Peak Correction **Emission Level** AV reading Frequency Ant. Pol. Peak limit **AV** limit Margin reading Factor Peak (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dB/m) (dBµV) (dBµV/m) (dBµV/m) 7.98 -7.47 10640 Н 38.55 46.53 74 54 -8.25 15960 Н 35.90 9.85 45.75 74 54 Η ٧ 47.97 10640 39.99 ---7.98 ---74 54 -6.0315960 4 74 -4.89 V 39.26 *Į*... 9.85 49.11 54 ٧ 11n(HT40) CH54: 5270MHz Peak Correction **Emission Level** AV reading Ant. Pol. Peak limit **AV** limit Frequency Margin reading Factor Peak AV (dB) (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB/m) (dBµV) dBµV/m) (dBµV/m) 10540 Η 41.58 7.97 49.55 68.2 -18.65 15810 Н 37.73 9.83 47.56 74 54 -6.44 Η ------------------------10540 V 37.96 7.97 45.93 68.2 -22.27 77-54 15810 ٧ 36.78 M. 9.83 46.61 _/_ 74 -7.39٧ ---11n(HT40) CH62: 5310MHz Peak Correction **Emission Level** Ant. Pol. AV reading Frequency Peak limit **AV** limit Margin reading Factor Peak H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (MHz) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10620 Η 40.89 7.98 48.87 74 54 -5.13 15930 Н 38.73 9.85 48.58 74 54 -5.42Н ---10620 38.21 7.98 46.19 74 54 -7.81 15930 V 36.86 9.85 46.71 74 54 -7.29V -------------------------11ac(VHT20) C52: 5260MHz Peak Correction **Emission Level AV** limit Ant. Pol. **AV** reading Peak limit Frequency Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB)(dBµV) (dB/m) (dBµV/m) dBµV/m 10520 Η 40.35 7.97 48.32 68.2 -19.8815780 Η 39.80 9.83 49.63 74 -4.37Н ---------------10520 V 40.61 7.97 48.58 68.2 -19.62___ -4-15780 36.83 9.83 46.66 74 54 -7.34V 11ac(VHT20) CH60: 5300MHz **Emission Level** Peak Correction AV reading Ant. Pol. Peak limit **AV** limit Frequency Margin reading Factor AV Peak (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 39.46 74 -6.56 10560 Н ---7.98 47.44 54 ---

54

54

54

-6.64

-8.51

-7.47

74

74

74

47.36

45.49

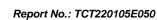
46.53

9.85

7.98

9.85

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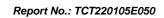




			11a	c(VHT20) C	H64: 5320	MHz			
requency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10640	Н	40.73		7.98	48.71		74	54	-5.29
15960	Н	39.51		9.85	49.36		74	54	-4.64
/	Н		<i>[,</i> [/			<i>(,</i> ()	
		T	KO,		1			(C)	
10640	V	40.38		7.98	48.36		74	54	-5.64
15960	V	36.99		9.85	46.84		74	54	-7.16
	V								
			11a	c(VHT40) C	H54: 5270	MHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction		n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10540	Н	40.54		7.97	48.51		68.2		-19.69
15810	Z/H	37.67	75 (k)	9.83	47.50	X	74	54	-6.50
(CH.		(, -C)		(· C) - } -		(, C)	
				/					
10540	V	39.70		7.97	47.67		68.2		-20.53
15810	V	37.98		9.83	47.81		74	54	-6.19
	V				Z				
			11a	c(VHT40) C	H60: 5310	MHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10620	H	38.59		7.98	46.57		74	54	-7.43
15930 /	Н	37.64	/	9.85	47.49	-	74	54	-6.51
	Н		1			7-		*	
10620	V	38.63		7.98	46.61		74	54	-7.39
15930	V	37.87		9.85	47.72		74	54	-6.28
\	V				<u> </u>				(
			118	ac(VHT80)	C58:5290N	lHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10580	₹H	41.85	7	7.98	49.83	\ -	74	54	-4.17
15870	C H	39.12	[-0,	9.85	48.97	(C-)	74	54	-5.03
	Н								
10580	V	40.37		7.98	48.35		74	54	-5.65
15870	V	38.20		9.85	48.05		74	54	-5.95
~)	V	(.e)		(, (()		$(-\epsilon)$		(,

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





					ype: Band 2): 5500MHz				
		Peak		Correction		on Level			
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11000	Н	39.34		8.03	47.37		74	54	-6.63
16500	Н	39.91		9.76	49.67		68.2		-18.53
(Н		<i></i>		(C -1-		4	
		l .					l .		
11000	V	40.56		8.03	48.59		74	54	-5.41
16500	V	40.33		9.76	50.09		68.2		-18.11
	V								
· .				11a CH120): 5600MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)		Correction Factor (dB/m)	Emissio Peak	n Level AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11200	ш			,	(dBµV/m) 48.11	(dBµV/m)	74	ΕΛ	F 00
11200 16800	H	40.07		8.04 9.74			74 68.2	54	-5.89 19.11
		40.35	7		50.09			7.63	-18.11
(<u>CH</u>		+0			(0-)		470	
44000	\ <u>\</u>	00.04		0.04	40.05		7.4	F4 1	7 7 7 7
11200	V	38.21		8.04	46.25		74	54	-7.75
16800	V	39.59		9.74	49.33		68.2		-18.87
Z\	V	 X\			Z\		 X\		
): 5700MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11400	Н	38.67		8.05	46.72		74	54	-7.28
17100	Н	40.45	<u>-</u>	9.72	50.17		68.2	-/- <	-18.03
	(OH		70			(0.1		160	
11400	V	38.50		8.05	46.55		74	54	-7.45
17100	V	40.97		9.72	50.69		68.2		-17.51
	V								
	•		11n	(HT20) CH	100: 5500N	ЛН ₂			
		Peak		Correction		on Level			
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11000	,Н	40.79		8.03	48.82		74	54	-5.18
16500	Н	39.16	4	9.76	48.92	777	68.2	-4- 6	-19.28
	Н		-4-			7		-40	
11000	V	38.33		8.03	46.36		74	54	-7.64
16500	V	41.46		9.76	51.22		68.2		-16.98
\\	V			(/
			11n	(HT20) CH	120: 5600N	ЛНz			
Гиоли	Amt D. I	Peak		Correction		on Level	Decl. l''	A) / 15 11	N. 4 1
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11200	/AH	39.87	- 	8.04	47.91		74	54	-6.09
16800	CH.	40.33	(. C)	9.74	50.07	`C -7	68.2	40°	-18.13
	Н					<u>_</u>			
	\/	38.75	 	0.04	46.70	1	71	ΕΛ	7.04
11000		3 と / 5		8.04	46.79		74	54	-7.21
11200	V			0.74	40.00		CC C		40.07
11200 16800	V V	39.19		9.74	48.93		68.2		-19.27

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11000

16500

39.01

39.47

Report No.: TCT220105E050 Peak Correction **Emission Level** AV reading Frequency Ant. Pol. Peak limit **AV** limit Margin reading Factor Peak (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dB/m) (dBµV) (dBµV/m) (dBµV/m) 11400 -6.34Н 39.61 8.05 47.66 74 54 17100 Н 40.74 9.72 50.46 68.2 -17.74 Η ٧ -7.21 11400 38.74 ---8.05 46.79 ---74 54 17100 V 4 68.2 39.93 *Į*... 9.72 49.65 -18.55٧ _/_ 11n(HT40)CH102: 5510MHz Peak Correction **Emission Level** AV reading Ant. Pol. Peak limit **AV** limit Frequency Margin reading Factor Peak AV H/V (dB)(MHz) (dBµV) (dBµV/m) (dBµV/m) (dB/m) (dBµV) dBµV/m) (dBµV/m) 11020 Η 39.25 8.03 47.28 74 54 -6.7216530 Н 39.40 9.76 49.16 68.2 -19.04 Η ------------------------11020 V 39.43 8.03 47.46 4 74 -6.54 54 16530 ٧ 37.97 M. 9.76 47.73 _/_ 68.2 -20.47 ٧ ------11n(HT40) CH118: 5590MHz Peak Correction **Emission Level** Ant. Pol. AV reading Frequency Peak limit **AV** limit Margin reading Factor Peak A۷ H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (MHz) $(dB\mu V)$ (dB/m) (dBµV/m) (dBµV/m) 11180 Η 39.32 8.04 47.36 74 54 -6.64 16770 Н 39.11 9.74 48.85 68.2 -19.35Н ---11180 37.89 8.04 45.93 74 54 -8.07 16770 V 41.05 9.74 50.79 68.2 -17.41 ١/ -------------------------11n(HT40) CH134: 5670MHz Peak Correction **Emission Level** Ant. Pol. **AV** limit **AV** reading Peak limit Frequency Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB)(dBµV) (dB/m) (dBµV/m) dBµV/m 11340 Η 40.74 8.05 48.79 74 54 -5.21 17010 Η 41.95 9.72 51.67 68.2 -16.53 Н ---------------11340 V 39.07 8.05 47.12 74 54 -6.88 ___ -/-17010 38.38 9.72 48.10 68.2 -20.10 V 11ac(VHT20) CH100: 5500MHz **Emission Level** Peak Correction AV reading Ant. Pol. Peak limit **AV** limit Frequency Margin reading Factor AV Peak (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 37.90 74 -8.07 11000 Н ---8.03 45.93 54 ---16500 39.73 49.49 68.2 -18.71 Н 9.76 ---Н __ ___

-6.96

-18.97

54

74

68.2

8.03

9.76

47.04

49.23





			11ac	(VHT20) CI	H120: 5600	MHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11200	Н	40.29		8.04	48.33		74	54	-5.67
16800	Н	39.60		9.74	49.34		68.2		-18.86
/	Н		<i>(,</i> (1)		(<u> </u>		(<u>-</u> -)	
			KO)					(VO)	
11200	V	39.52		8.04	47.56		74	54	-6.44
16800	V	39.70		9.74	49.44		68.2		-18.76
	V								
			11ac	(VHT20) CI	H140: 5700	MHz			
requency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11400	Н	39.81		8.05	47.86		74	54	-6.14
17100	// H	38.72	(A)	9.72	48.44		68.2	7	-19.76
(, G H		 C		(, G 2 }-		[- C]	
				7	~				
11400	V	40.82		8.05	48.87		74	54	-5.13
17100	V	39.36		9.72	49.08		68.2		-19.12
	V			-					
			11ac	(VHT40) CI	H102: 5510	MHz			
Fraguanay	Ant Dol	Peak	AV/ roading	Correction	Emissic	n Level	Pook limit	۸۱/ limit	Margin
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
		reading	AV reading (dBµV)	Factor	Peak	AV	Peak limit (dBµV/m)		
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	` ′
(MHz) 11020	H/V H	reading (dBµV) 38.15	(dBµV)	Factor (dB/m) 8.03	Peak (dBµV/m) 46.18	AV (dBµV/m)	(dBµV/m) 74	(dBµV/m) 54	(dB) -7.82
(MHz) 11020 16530	H/V H H	reading (dBµV) 38.15 39.28	(dBµV)	Factor (dB/m) 8.03 9.76	Peak (dBµV/m) 46.18 49.04	AV (dBµV/m) 	(dBµV/m) 74 68.2	(dBµV/m) 54 	-7.82 -19.16
(MHz) 11020 16530	H/V H H H	reading (dBµV) 38.15 39.28 	(dBµV)	Factor (dB/m) 8.03 9.76	Peak (dBµV/m) 46.18 49.04	AV (dBµV/m) 	(dBµV/m) 74 68.2	(dBµV/m) 54 	-7.82 -19.16
11020 16530	H/V H H H V V	reading (dBµV) 38.15 39.28	(dBµV)	Factor (dB/m) 8.03 9.76	Peak (dBµV/m) 46.18 49.04	AV (dBµV/m) 	(dBμV/m) 74 68.2 	(dBµV/m) 54 	-7.82 -19.16
11020 16530 	H/V H H H	reading (dBµV) 38.15 39.28 	(dBµV)	Factor (dB/m) 8.03 9.76 8.03	Peak (dBµV/m) 46.18 49.04 49.12	ΑV (dBμV/m) 	(dBµV/m) 74 68.2 74	(dBµV/m) 54 54	(dB) -7.82 -19.16
11020 16530 11020 16530	H/V H H H V V	reading (dBµV) 38.15 39.28 41.09 38.30	(dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76	Peak (dBµV/m) 46.18 49.04 49.12 48.06	ΑV (dBμV/m) 	(dBµV/m) 74 68.2 74 68.2	(dBµV/m) 54 54	(dB) -7.82 -19.16 -4.88 -20.14
11020 16530 11020 16530 	H/V H H V V V	reading (dBµV) 38.15 39.28 41.09 38.30	(dBµV) 11	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40)	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:55	ΑV (dBμV/m) 	(dBµV/m) 74 68.2 74 68.2	(dBµV/m) 54 54	(dB) -7.82 -19.164.88 -20.14
11020 16530 11020 16530 	H/V H H H V V	reading (dBµV) 38.15 39.28 41.09 38.30	(dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40)	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:55	AV (dBµV/m) 90 on Level AV	(dBµV/m) 74 68.2 74 68.2	(dBµV/m) 54 54	(dB) -7.82 -19.164.88 -20.14
11020 16530 11020 16530 	H/V H H V V V Ant. Pol.	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading	(dBµV) 11 AV reading	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:559 Emissio	AV (dBµV/m) 90 on Level AV	(dBµV/m) 74 68.2 74 68.2	(dBµV/m) 54 54 AV limit	(dB) -7.82 -19.164.88 -20.14 Margin
11020 16530 11020 16530 Frequency (MHz)	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading (dBµV)	(dBµV) 11 AV reading (dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor (dB/m)	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:559 Emission Peak (dBµV/m)	AV (dBµV/m) 90 on Level AV (dBµV/m)	(dBµV/m) 74 68.2 74 68.2 Peak limit (dBµV/m)	(dBµV/m) 54 54 AV limit (dBµV/m)	(dB) -7.82 -19.164.88 -20.14 Margin (dB)
11020 16530 11020 16530 Frequency (MHz) 11180	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading (dBµV) 38.62	(dBµV) 11 AV reading (dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor (dB/m) 8.04	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:55 Emissic Peak (dBµV/m) 46.66	AV (dBµV/m) 90 on Level AV (dBµV/m)	(dBµV/m) 74 68.2 74 68.2 Peak limit (dBµV/m) 74	(dBµV/m) 54 54 AV limit (dBµV/m) 54	(dB) -7.82 -19.164.88 -20.14 Margin (dB) -7.34
11020 16530 11020 16530 Frequency (MHz) 11180	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading (dBµV) 38.62 36.74	(dBµV) 11 AV reading (dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor (dB/m) 8.04 9.74	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:559 Emissic Peak (dBµV/m) 46.66 46.48	AV (dBµV/m) 90 on Level AV (dBµV/m) 	(dBµV/m) 74 68.2 74 68.2 Peak limit (dBµV/m) 74 68.2	(dBµV/m) 54 54 AV limit (dBµV/m) 54	-7.82 -19.16 -4.88 -20.14 Margin (dB) -7.34 -21.72
11020 16530 11020 16530 Frequency (MHz) 11180	H/V H H V V V V Ant. Pol. H/V H H V	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading (dBµV) 38.62 36.74	(dBµV) 11 AV reading (dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor (dB/m) 8.04 9.74	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:559 Emissic Peak (dBµV/m) 46.66 46.48	AV (dBµV/m) 90 on Level AV (dBµV/m) 	(dBµV/m) 74 68.2 74 68.2 Peak limit (dBµV/m) 74 68.2	(dBµV/m) 54 54 AV limit (dBµV/m) 54	-7.82 -19.16 -4.88 -20.14 Margin (dB) -7.34 -21.72
11020 16530 11020 16530 Frequency (MHz) 11180 16770	H/V H H H V V V Ant. Pol. H/V H H	reading (dBµV) 38.15 39.28 41.09 38.30 Peak reading (dBµV) 38.62 36.74	(dBµV) AV reading (dBµV)	Factor (dB/m) 8.03 9.76 8.03 9.76 ac(VHT40) Correction Factor (dB/m) 8.04 9.74	Peak (dBµV/m) 46.18 49.04 49.12 48.06 CH118:555 Emissic Peak (dBµV/m) 46.66 46.48	AV (dBµV/m) 90 on Level AV (dBµV/m) 	(dBµV/m) 74 68.2 74 68.2 Peak limit (dBµV/m) 74 68.2	(dBµV/m) 54 54 AV limit (dBµV/m) 54	-7.82 -19.16 -4.88 -20.14 (dB) -7.34 -21.72



			11ac	(VHT40) CH	1134: 5670	MHz			
Frequency (MHz)	Ant. Pol. H/V	(dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11340	Н	37.73		8.05	45.78		74	54	-8.22
17010	Н	36.01		9.72	45.73		68.2		-22.47
	/H		7			/		- 	
()	(G)		(20)		()	(G)		(°C,)	
11340	V	37.82	-32	8.05	45.87		74	54	-8.13
17010	V	39.37		9.72	49.09		68.2		-19.11
	V								
			11ac	(VHT80) CI	H106: 5530	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11060	Н	39.45		8.03	47.48		74	54	-6.52
16590	Н	40.78		9.75	50.53		68.2		-17.67
/	H		<i>/</i> _		/			<i>f</i> ^	
		•	NO.)				KO)	
11060	V	40.01		8.03	48.04		74	54	-5.96
16590	V	41.77		9.75	51.52		68.2		-16.68
	V								
			11a	(HT80) CH	122: 5610N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11220	Н	41.40		8.05	49.45		74	54	-4.55
16830	,Н	38.57		9.72	48.29		68.2		-19.91
(Н				(<u> </u>		<i>(</i>)	
· ·		•					•	'(
11220	V	39.28		8.05	47.33		74	54	-6.67
16830	V	39.99		9.72	49.71		68.2		-18.49
	V								

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



	Modulation Type: Band 3										
				11a	(HT20) CH						
Frequ (MF		Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
114	.90	Н	38.09		8.09	46.18		74	54	-7.82	
172	35	Н	37.55		9.67	47.22	-	68.2		-20.98	
	- /	H		<i>f (</i>)		(_		<i>f</i>		
				'K'	/	1					
114	90	V	40.94		8.09	49.03		74	54	-4.97	
172	17235 V 41.07 9.67 50.74 68.217.46										
	V										

			11a	(HT20) CH	157: 5785N	ЛНz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11570	H	39.35		8.10	47.45		74	54	-6.55
17355	, C H	39.47	(C)	9.65	49.12	, C, 2 }	68.2	(- 0)	-19.08
	Н								
11570	V	39.08		8.10	47.18		74	54	-6.82
17355	V	39.74		9.65	49.39		68.2		-18.81
	V	((((

			11a	(HT20) CH	161: 5825N	ИHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	CO H	38.43	170	8.12	46.55	KO-7	74	54	-7.45
17475	H	36.65		9.62	46.27		68.2		-21.93
	Н								
11650	V	39.24		8.12	47.36		74	54	-6.64
17475	V	38.83		9.62	48.45		68.2		-19.75
/	V			(<i></i>				

	11n(HT20) CH151: 5745MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
11510	H	39.44		8.09	47.53	1	74	54	-6.47			
17265	Η	38.59		9.67	48.26		68.2		-19.94			
	H											
					-11							
11510	V	39.49		8.09	47.58		74	54	-6.42			
17265	V	38.07		9.67	47.74		68.2		-20.46			
	V											



	11n(HT20) CH157: 5785MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
11570	Η	38.66		8.10	46.76		74	54	-7.24				
17355	Η	40.08		9.65	49.73		68.2		-18.47				
	Н					-							
11570	V	38.61		8.10	46.71	-7-	74	54	-7.29				
17355	V	39.82		9.65	49.47	1	68.2		-18.73				
	V												

			11n	(HT20) CH	165: 5825N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	Η	38.94		8.12	47.06		74	54	-6.94
17475	H	37.65	-7-	9.62	47.27		68.2		-20.93
(, C H		[- C]		((C)		4. 0	
				7					
11650	V	36.25		8.12	44.37		74	54	-9.63
17475	V	39.83		9.62	49.45		68.2		-18.75
	V								

	11n(HT40) CH151: 5755MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
11510	H	40.73	7	8.09	48.82		74	54	-5.18		
17265	H	41.18	Ľ.O	9.67	50.85	√O-1	68.2	740	-17.35		
	Ŧ										
11510	V	40.45		8.09	48.54		74	54	-5.46		
17265	V	38.86		9.67	48.53		68.2		-19.67		
)	V			(, ((* 6				(2)		

	11n(HT40) CH159: 5795MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
11590	Н	39.14	-4-	8.10	47.24		74	54	-6.76		
17385	Н	38.06		9.65	47.71		68.2		-20.49		
	Н										
11590	V	37.96		8.10	46.06		74	54	-7.94		
17385	V	38.20		9.65	47.85		68.2		-20.35		
	V)			-)				



	11ac(VHT20) CH149: 5745MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
11490	Η	40.69		8.09	48.78		74	54	-5.22		
17235	Η	41.75		9.67	51.42		68.2		-16.78		
	H										
11490	V	40.24		8.09	48.33	-/-	74	54	-5.67		
17235	V	42.16		9.67	51.83		68.2		-16.37		
	V										

11ac(VHT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11570	Н	38.47		8.10	46.57		74	54	-7.43
17355	H	37.09	(A)	9.65	46.74	/ 	68.2		-21.46
(, C H		1-O')	(,C -		(-, C)	
				/					
11570	V	37.82		8.10	45.92		74	54	-8.08
17355	V	39.01		9.65	48.66		68.2		-19.54
Z	V				Z				/
		(.C)		(.0		•	(.C)		(,
			4.4	() (I ITOO) O	11405 5005				

	11ac(VHT20) CH165: 5825MHz										
Frequency (MHz)	Ant. Pol. H/V	reading (dBμV) (dBμV) (dBμV/m) (dBμV/m) (dBμV/m)				Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
11650	H	40.13	7	8.12	48.25		74	54	-5.75		
17475	H	38.85	Ϋ́O	9.62	48.47	(O-1	68.2	740	-19.73		
	Н					<u></u>					
11650	V	39.76		8.12	47.88		74	54	-6.12		
17475	V	41.32		9.62	50.94		68.2		-17.26		
(V			(· (``ر		j J				

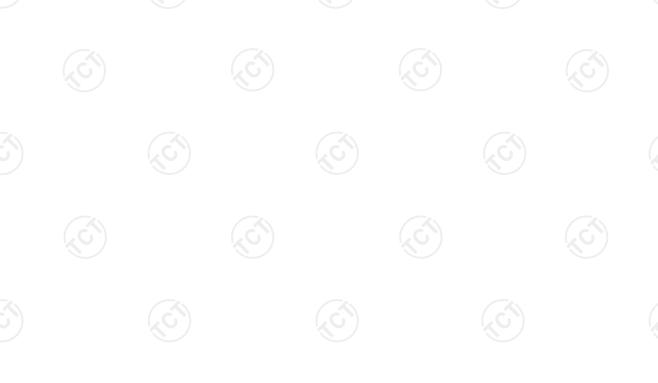
	11ac(VHT40) CH151: 5755MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ing (dRu\/) Factor Peak AV (dRu\//m)		AV limit (dBµV/m)	Margin (dB)					
11510	Н	40.17	-4-	8.09	48.26		74	54	-5.74		
17265	Н	38.28		9.67	47.95		68.2		-20.25		
	Н										
******			1			<u> </u>					
11510	V	40.80		8.09	48.89		74	54	-5.11		
17265	V	36.45		9.67	46.12		68.2		-22.08		
	V):									



	11ac(VHT40) CH159: 5795MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11590	I	40.34		8.10	48.44		74	54	-5.56	
17385	I	37.58		9.65	47.23		68.2		-20.97	
	T									
11590	V	40.36	-4	8.10	48.46	-/-	74	54	-5.54	
17385	V	39.27		9.65	48.92		68.2		-19.28	
	V									
			11ac	(VHT80) C	H155: 5775	MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11550	Н	40.66		8.09	48.75		74	54	-5.25	
17325	Н	42.13		9.66	51.79		68.2		-16.41	
	H		-7					K		
	.C'		(,0)			, G ')		(,0)		
11550	V	41.69		8.09	49.78	-2-	74	54	-4.22	
17325	V	39.72		9.66	49.38		68.2		-18.82	
	V									

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at Antenna 0 and Antenna 1, the worst case was found. Only the test data of Antenna 0 was shown in this report.



Test plots as follows:

Test mode:	802.11ac	(HT20)	Freque	ency(MHz):	5180
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta	Result
Temperature (C)	voitage(vDC)	Frequen	cy(MHz)	Frequency(F	lz)
45		5180	.0095	9500	PASS
35		5180	.0061	6100	PASS
25	3.3V	5179	.9874	-12600	PASS
15	3.34	5179	.9982	-1800	PASS
5		5180	.0037	3700	PASS
0		5180	.0046	4600	PASS
	2.97V	5179	.9833	-16700	PASS
20	3.3V	5180	.0030	3000	PASS
	3.63V	5179	.9828	-17200	PASS

Test mode:	802.11ac(HT20) Frequ	ency(MHz):	5200
Temperature (°C)	Voltage(VDC)	Measurement	Delta	Result
remperature (O)	voitage(vDO)	Frequency(MHz)	Frequency(Hz)	Nesult
45		5200.0096	9600	PASS
35		5200.0084	8400	PASS
25	3.3V	5200.0071	7100	PASS
15	3.3 V	5200.0045	4500	PASS
5		5199.9980	-2000	PASS
0		5199.9879	-12100	PASS
	2.97V	5199.9952	-4800	PASS
20	3.3V	5200.0033	3300	PASS
	3.63V	5200.0057	5700	PASS

Test mode:	802.11ac	(HT20)	Freque	ency(MHz):		5240
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result
Temperature (C)	voltage(vDC)	Frequen	cy(MHz)	Frequency(I	Hz)	Nesuit
45		5240.	.0047	4700		PASS
35		5240.	.0022	2200		PASS
25	3.3V	5240.	.0025	2500		PASS
15	3.3 V	5239.	.9991	-900		PASS
5		5239.	.9986	-1400	7	PASS
0		5239.	.9977	-2300	(, ()	PASS
	2.97V	5240.	.0034	3400		PASS
20	3.3V	5240.	.0013	1300		PASS
	3.63V	5239.	.9980	-2000		PASS





Test mode:	802.11ad	(HT20)	Freque	ency(MHz):	5745
Tomporoture (°C)	Voltage(VDC)	Measu	rement	Delta	Result
Temperature (°C)	voltage(vDC)	Frequen	cy(MHz)	Frequency(H	fz) Result
45		5745	.0015	1500	PASS
35		5745	.0011	1100	PASS
25	3.3V	5744	.9960	-4000	PASS
15	3.31	5744	.9958	-4200	PASS
5		5745	.0033	3300	PASS
0		5745	.0047	4700	PASS
	2.97V	5745	.0079	7900	PASS
20	3.3V	5745	.0072	7200	PASS
	3.63V	5745	.0026	2600	PASS

Test mode:	802.11ac	(HT20)	HT20) Frequency(MHz):			5785
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result
remperature (C)	voltage(vDC)	Frequen	cy(MHz)	Frequency(I	Hz)	Nesuit
45		5785	.0085	8500		PASS
35		5785	.0036	3600		PASS
25	3.3V	5785	.0021	2100	C_{i}	PASS
15	3.31	5784	.9980	-2000		PASS
5		5785	.0029	2900		PASS
0		5784	.9977	-2300		PASS
(.6)	2.97V	5785	.0056	5600		PASS
20	3.3V	5785	.0024	2400		PASS
	3.63V	5784	.9973	-2700		PASS

Test mode:	802.11ac	(HT20) Frequ	uency(MHz):	5825
Temperature (°C)	Voltage(VDC)	Measurement	Delta	Result
Temperature (C)	voitage(vDC)	Frequency(MHz) Frequency(Hz)	Nesuit
45		5824.9805	-19500	PASS
35		5825.0081	8100	PASS
25	3.3V	5824.9952	-4800	PASS
15	3.31	5824.9987	-1300	PASS
5		5825.0019	1900	PASS
0		5825.0043	4300	PASS
-)	2.97V	5825.0048	4800	PASS
20	20 3.3V		-1600	PASS
	3.63V	5825.0026	2600	PASS



Test mode:	802.11ac	802.11ac(HT40) Frequency(MH		T40) Frequency(MHz):		5190	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
remperature (C)	voltage(vDC)	Frequen	cy(MHz)	Frequency(H	Hz)	Resuit	
45		5190	.0122	12200		PASS	
35		5190	.0116	11600		PASS	
25	3.3V	5190	.0103	10300		PASS	
15	3.31	5190	.0037	3700		PASS	
5		5190	.0060	6000		PASS	
0		5190	.0078	7800		PASS	
	2.97V	5189	.9911	-8900		PASS	
20	3.3V	5189	.9975	-2500	5)	PASS	K
	3.63V	5190	.0049	4900		PASS	

Test mode:	802.11ac(HT40) Freque	ency(MHz):	5230
Temperature (°C)	Voltage(VDC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5230.0118	11800	PASS
35		5230.0123	12300	PASS
25	3.3V	5230.0091	9100	PASS
15	3.31	5229.9980	-2000	PASS
5		5229.9989	-1100	PASS
0		5230.0056	5600	PASS
(G)	2.97V	5230.0047	4700	PASS
20	3.3V	5230.0024	2400	PASS
	3.63V	5229.9972	-2800	PASS

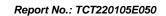
Test mode:	802.11ac(HT40) Frequency(MHz):			5755		
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
Temperature (C)	voltage(vDC)	Frequen	cy(MHz)	Frequency(I	Hz)	Nesuit	
45		5755.	0107	10700		PASS	
35		5755.	.0021	2100		PASS	
25	3.3V	5755	.0115	11500		PASS	
15	3.3 V	5755.	.0099	9900		PASS	
5		5755.	.0032	3200		PASS	
0		5755.	.0074	7400		PASS	
	2.97V	5755.	0046	4600	(O	PASS	
20	3.3V	5755.	0038	3800		PASS	
	3.63V	5755.	.0069	6900		PASS	



Test mode:	802.11	lac(HT40)	Frequency(MHz):		5795
Temperature (°C)	Voltage(VD	() Measu	rement	Delta	Result
remperature (C)	voltage(vD	Frequen	cy(MHz)	Frequency(H	lz) Result
45		5794	.9804	-19600	PASS
35		5794	.9845	-15500	PASS
25	3.3V	5795	.0041	4100	PASS
15	3.31	5795	.0036	3600	PASS
5		5795	.0022	2200	PASS
0		5795	.0067	6700	PASS
	2.97V		.0053	5300	PASS
20	3.3V	5794	.9989	-1100	PASS
	3.63V	5795	.0080	8000	PASS

Test mode:		802.11ac(V	/HT80)	HT80) Frequency(MHz): 52		5210		
Temperature (°C)	Vo	ltage(VDC)	Measu	rement	D	elta	Result	
Temperature (C)	VC	mage(VDC)	Frequen	cy(MHz)	Freque	ency(Hz)) Nesuit	
45			5209	.9805	-19	9500	PASS	
35			5209.	.9841	-15	900	PASS	
25		3.3V	5210.	.0047	47	700	PASS	
15		3.3 V	5210.	.0034	34	400	PASS	
5			5210.	.0028	28	300	PASS	
0_			5210.	.0060	60	000	PASS	
(20)		2.97V	5210.0052		5210.0052 5200		PASS	
20		3.3V	5209	.9989	-1	100	PASS	•
		3.63V	5210.	.0086	86	600	PASS	

Test mode:	802.11ac(VHT80)	HT80) Frequency(MHz):			5775	
Temperature (°C)	Voltage(VDC)	Measur	ement	Delta		Result	
remperature (C)	voitage(vDC)	Frequenc	cy(MHz)	Frequency(I	Hz)	Kesuit	
45		5775.	0042	4200		PASS	
35	(,C)	5774.	9977	-2300		PASS	
25	3.3V	5775.	0046	4600		PASS	
15	3.3 V	5775.	0035	3500		PASS	
5		5774.	9968	-3200		PASS	
0		5775.	0061	6100		PASS	
	2.97V	5775.	0059	5900		PASS	X
20	20 3.3V		9984	-1600		PASS	•
	3.63V	5775.	0800	8000		PASS	





Appendix A: Test Result of Conducted Test

Antenna 0

Duty Cycle

	Duty Cycle									
	Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)					
	NVNT	а	5180	Ant0	99.42					
	NVNT	а	5200	Ant0	99.43					
	NVNT	а	5240	Ant0	99.43					
	NVNT	n20	5180	Ant0	99.38					
	NVNT	n20	5200	Ant0	99.34					
	NVNT	n20	5240	Ant0	99.39					
	NVNT	n40	5190	Ant0	99.40					
	NVNT	n40	5230	Ant0	99.20					
7	NVNT	ac20	5180	Ant0	98.79					
	NVNT	ac20	5200	Ant0	98.80					
	NVNT	ac20	5240	Ant0	98.80					
	NVNT	ac40	5190	Ant0	98.80					
	NVNT	ac40	5230	Ant0	98.40					
	NVNT	ac80	5210	Ant0	98.64					
	NVNT	а	5260	Ant0	99.39					
	NVNT	а	5300	Ant0	99.40					
1	NVNT	а	5320	Ant0	99.40					
J	NVNT	n20	5260	Ant0	99.33					
	NVNT	n20	5300	Ant0	99.36					
	NVNT	n20	5320	Ant0	99.31					
	NVNT	n40	5270	Ant0	99.40					
	NVNT	n40	5310	Ant0	99.16					
	NVNT	ac20	5260	Ant0	98.69					
	NVNT	ac20	5300	Ant0	98.72					
	NVNT	ac20	5320	Ant0	98.72					
7	NVNT	ac40	5270	Ant0	98.80					
Į	NVNT	ac40	5310	Ant0	98.83					
	NVNT	ac80	5290	Ant0	98.59					
	NVNT	а	5500	Ant0	99.39					
	NVNT	а	5600	Ant0	99.39					
	NVNT	а	5700	Ant0	99.40					
	NVNT	n20	5500	Ant0	99.38					
	NVNT	n20	5600	Ant0	99.32					
	NVNT	n20	5700	Ant0	99.35					
1	NVNT	n40	5510	Ant0	98.69					
ľ	NVNT	n40	5590	Ant0	98.64					
	NVNT	n40	5670	Ant0	98.70					
	NVNT	ac20	5500	Ant0	98.74					
	NVNT	ac20	5600	Ant0	98.72					
	NVNT	ac20	5700	Ant0	98.72					
	NVNT	ac40	5510	Ant0	98.83					

TCT通测检测
TESTING CENTRE TECHNOLOGY

				Report No
NVNT	ac40	5590	Ant0	98.40
NVNT	ac40	5670	Ant0	98.83
NVNT	ac80	5530	Ant0	98.58
NVNT	ac80	5610	Ant0	98.62
NVNT	а	5745	Ant0	99.39
NVNT	а	5785	Ant0	99.39
NVNT	а	5825	Ant0	99.34
NVNT	n20	5745	Ant0	99.31
NVNT	n20	5785	Ant0	99.37
NVNT	n20	5825	Ant0	99.30
NVNT	n40	5755	Ant0	99.20
NVNT	n40	5795	Ant0	99.20
NVNT	ac20	5745	Ant0	98.71
NVNT	ac20	5785	Ant0	98.72
NVNT	ac20	5825	Ant0	98.71
NVNT	ac40	5755	Ant0	98.80
NVNT	ac40	5795	Ant0	98.83
NVNT	ac80	5775	Ant0	98.58
	NVNT NVNT NVNT NVNT NVNT NVNT NVNT NVNT	NVNT ac40 NVNT ac80 NVNT a NVNT a NVNT a NVNT n20 NVNT n20 NVNT n20 NVNT n40 NVNT n40 NVNT ac20 NVNT ac20 NVNT ac20 NVNT ac40 NVNT ac40	NVNT ac40 5670 NVNT ac80 5530 NVNT ac80 5610 NVNT a 5745 NVNT a 5785 NVNT a 5825 NVNT n20 5745 NVNT n20 5785 NVNT n20 5825 NVNT n40 5755 NVNT n40 5795 NVNT ac20 5745 NVNT ac20 5785 NVNT ac20 5825 NVNT ac40 5755 NVNT ac40 5795	NVNT ac40 5670 Ant0 NVNT ac80 5530 Ant0 NVNT ac80 5610 Ant0 NVNT a 5745 Ant0 NVNT a 5785 Ant0 NVNT n20 5745 Ant0 NVNT n20 5785 Ant0 NVNT n20 5825 Ant0 NVNT n40 5755 Ant0 NVNT n40 5795 Ant0 NVNT ac20 5745 Ant0 NVNT ac20 5785 Ant0 NVNT ac20 5825 Ant0 NVNT ac40 5755 Ant0 NVNT ac40 5795 Ant0







