



TEST REPORT

Product Trade mark Model/Type reference Serial Number Report Number FCC ID

Date of Issue Test Standards

Test result

- Photo Printer
- rock space

: DHP511

- : N/A
- : EED32O81359003
- 2AUA9-RQZY014
- Oct. 19, 2022
- : 47 CFR Part 15 Subpart E
- PASS

Prepared for: ng Excellent Te

Shenzhen Renqing Excellent Technology Co., Ltd. 104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China

> Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

mark cher Reviewed by: Compiled by: Mark Chen Tom Chen ERNATI avon M proved by Date: Oct. 19, 2022 Aaron Ma Check No.: 5407310822 **Report Seal**



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PHOTOGRAPHS OF TEST SETUP			

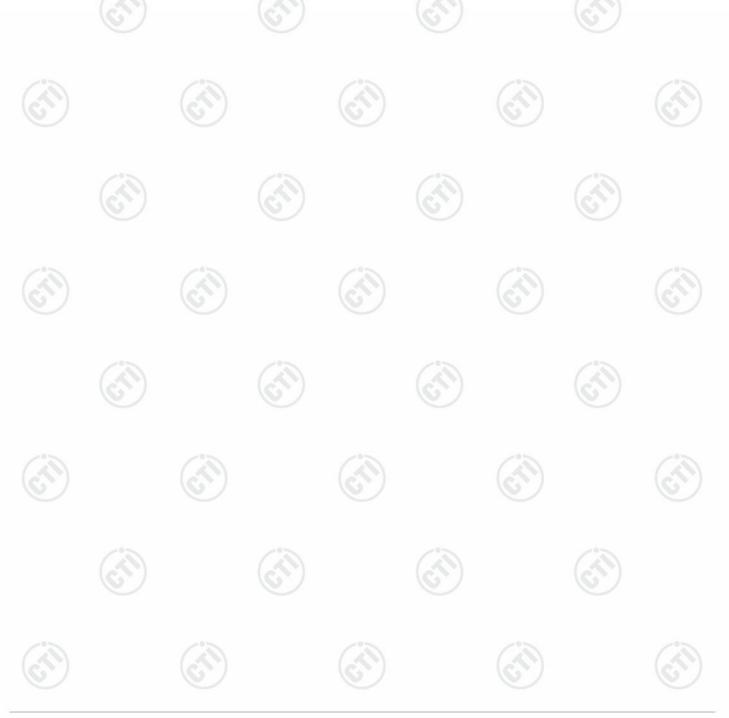






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Version No.	Date	Description	
00	Oct. 19, 2022	Original	
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Test Cump and and

4 Test Summary Test Item	Toot Doguiroment	Result
Test item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(6)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth		PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Remark:		(\mathcal{A})

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





5 General Information

5.1 Client Information

Applicant:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address of Applicant:	104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen Renqing Excellent Technology Co., Ltd.
Address of Manufacturer:	104, No.15, Longfu Industrial Zone, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, China
Factory:	Dongguan Kaifa Technology Co., Ltd
Address of Factory:	Kaifa Park of CEC Industry Base, No.2 Junma road, Chigang Community Humen town, Dongguan City, Guangdong Province, China

5.2 General Description of EUT

Product Name:	Photo Printe	r	
Model No.(EUT):	DHP511	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~
Trade mark:	rock space		
Product Type:	🗌 Mobile	Portable	0
Type of Modulation:	IEEE 802.11	2.11n(HT20/HT40): OFDM (64QAM, 16QAM, a: OFDM (BPSK, QPSK, 16QAM, 64QAM) ac(HT20/HT40/HT80): OFDM (BPSK, QPSK	. ,
Operating Frequency	U-NII-1: 518 U-NII-3: 574		
Operating Temperature:`	0℃ to +35℃	2	
Antenna Type:	PCB Antenn	a	10
Antenna Gain:	0.34 dBi	(ZS) (ZS)	$(\mathcal{E}^{(n)})$
Function	SISO .	2x2 MIMO 🗌 Beamforming 🔲 TPC	
Power Supply:	Adapter	Model:DSA-38PFE-24FUS 240160 Input:100-240V~50/60Hz 1.0A Output:24V1.6A 38.4W)
Test voltage:	AC 120V		
Sample Received Date:	Aug. 31, 202	22	
Sample tested Date:	Aug. 31, 202	22 to Sep. 15, 2022	-0-





Operation Frequency each of channel

802.11a/802.11n/802.11ac (20MHz) Frequency/Channel Operations:

	U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)	
36	5180	149	5745	
40	5200	153	5765	
44	5220	157	5785	
48	5240	161	5805	
- (6		165	5825	

802.11n/802.11ac (40MHz) Frequency/Channel Operations:

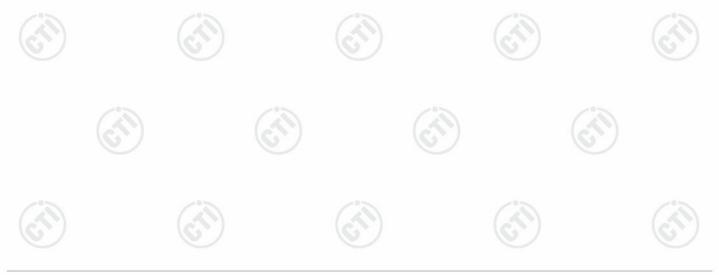
U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
46	5230	159	5795

802.11ac (80MHz) Frequency/Channel Operations:

		U-NII-1 U-NII-3		U-NII-3
13	Channel	Frequency(MHz)	Channel	Frequency(MHz)
	42	5210	155	5775

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:



3









5.3 Test Configuration

EUT Test Software Settings	\$:		
Software:	dbgmon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	123
EUT Power Grade:	Default	(3)	6
Use test software to set the lo transmitting of the EUT.	owest frequency, the middle freque	ency and the highest frequency keep	C
Test Mode:			
the EUT in transmitting opera	ation, which was shown in this test te in lowest channel, and found	•	
was worst case.			
Mode			
	•	Data rate	
802.11		Data rate 6 Mbps	
802.11 802.11n(H	la		
	la IT20)	6 Mbps	(Å
802.11n(H	la IT20) IT40)	6 Mbps MCS0	Ś
802.11n(H 802.11n(H	la IT20) IT40) /HT20)	6 Mbps MCS0 MCS0	Ê

5.4 Test Environment

Operating Environment:			
Radiated Spurious Emission	s:		
Temperature:	22~25.0 °C		
Humidity:	50~56 % RH	(C)	(O)
Atmospheric Pressure:	1010mbar		
Conducted Emissions:			
Temperature:	22~26.0 °C		
Humidity:	50~56 % RH	S) (C	7
Atmospheric Pressure:	1010mbar		/
RF Conducted:			
Humidity:	50~55 % RH	(°))	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Atmospheric Pressure:	1010mbar		(\mathcal{A})
	NT (Normal Temperature)	22~25.0 °C	V
Temperature:	LT (Low Temperature)	0 °C	
	HT (High Temperature)	35.0 °C	
	NV (Normal Voltage)	AC 120V/60Hz	0
Working Voltage of the EUT:	LV (Low Voltage)	AC 100V/60Hz)
	HV (High Voltage)	AC 240V/50Hz	







5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	СТІ
	1000	(C.)		C

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted.

FCC Designation No.: CN1164

5.7 **Deviation from Standards**

None.

Abnormalities from Standard Conditions 5.8

None.

Other Information Requested by the Customer 5.9

None.

Measurement Uncertainty (95% confidence levels, k=2) 5.10

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
	PE power, conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
3	Radiated Spundus emission test	4.8dB (1GHz-18GHz)
\sim		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%











6 Equipment List

		RF test	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	120765	12-22-2021	12-21-2022
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518		
				6	(1)

	Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)			
Receiver	R&S	ESCI	100435	05-04-2022	05-05-2023			
Temperature/ Humidity Indicator	Defu	TH128	/	<u>()</u>	6			
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023			
Barometer	changchun	DYM3	1188					







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(4)	1	<>>)	(4)	1.6	10
	3M Semi-an	echoic Chamber (2)	- Radiated distu	rbance Test	
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	ТДК	SAC-3		05-22-2022	05-21-2025
Receiver	R&S	ESCI7	100938-003	10-14-2021	10-13-2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05-22-2022	05-21-2023
Multi device Controller	maturo	NCD/070/10711112		- (2	o
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-17-2021	04-16-2024
Microwave Preamplifier	Agilent	8449B	3008A02425	06-20-2022	06-19-2023







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		3M full-anechoi	c Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023	
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023	
Fully Anechoic Chamber	TDK	FAC-3	<u> </u>	01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	-		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		0	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710	- 6	9	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001			
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	(A)	-(2)	
Cable line	Times	HF160-KMKM-3.00M	393493-0001	<u> </u>		













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Radio Technical Requirements Specification

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203				
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					
electrical connector is proh	nibited.				
electrical connector is proh EUT Antenna:	Nibited. Please see Internal photos				









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6.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	weep time=auto	150
Limit:	Frequency range (MHz)	Limit (d	BuV)
	Trequency range (IMTZ)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm	n of the frequency.	
Test Setup:	Shielding Room	AE	Test Receiver
	 room. 2) The EUT was connected Impedance Stabilization Naimpedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the ra 3) The tabletop EUT was pla ground reference plane. An placed on the horizontal gr 4) The test was performed wit the EUT shall be 0.4 m vertical ground reference reference plane. The LISN unit under test and bom mounted on top of the grout the closest points of the L and associated equipment 5) In order to find the maximu and all of the interface cat 	etwork) which provides cables of all other SN 2, which was bonde is the LISN 1 for the was used to connect r ating of the LISN was r iced upon a non-meta nd for floor-standing an ound reference plane. The vertical ground ref from the vertical ground ref from the vertical ground plane was bonded 1 was placed 0.8 m ded to a ground ref und reference plane. LISN 1 and the EUT. was at least 0.8 m from um emission, the relation	s a $50\Omega/50\mu$ H + 5Ω line units of the EUT we d to the ground referen- unit being measured. nultiple power cables to not exceeded. llic table 0.8m above to rangement, the EUT we erence plane. The rear nd reference plane. The rearce plane for LIS from the boundary of to erence plane for LIS his distance was betwe All other units of the EU m the LISN 2. we positions of equipment
T (14)	ANSI C63.10: 2013 on con		
Test Mode:	All modes were tested, only th		nannel of 6Mbps for
 Toot Dooulto:	802.11a was recorded in the r	epon.	
Test Results:	Pass	(°>)	/°2

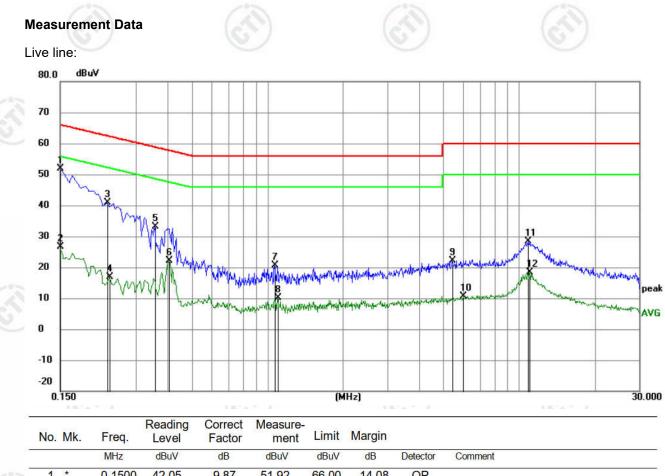








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	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	42.05	9.87	51.92	66.00	-14.08	QP	
2	0.1500	16.74	9.87	26.61	56.00	-29.39	AVG	
3	0.2310	30.84	9.93	40.77	62.41	-21.64	QP	
4	0.2355	7.03	9.94	16.97	52.25	-35.28	AVG	
5	0.3570	23.24	10.01	33.25	58.80	-25.55	QP	
6	0.4065	12.10	9.97	22.07	47.72	-25.65	AVG	
7	1.0679	10.76	9.83	20.59	56.00	-35.41	QP	
8	1.0949	0.19	9.83	10.02	46.00	-35.98	AVG	
9	5.4240	12.29	9.78	22.07	60.00	-37.93	QP	
10	6.0225	0.75	9.78	10.53	50.00	-39.47	AVG	
11	10.8600	18.59	9.81	28.40	60.00	-31.60	QP	
12	11.0040	8.46	9.81	18.27	50.00	-31.73	AVG	

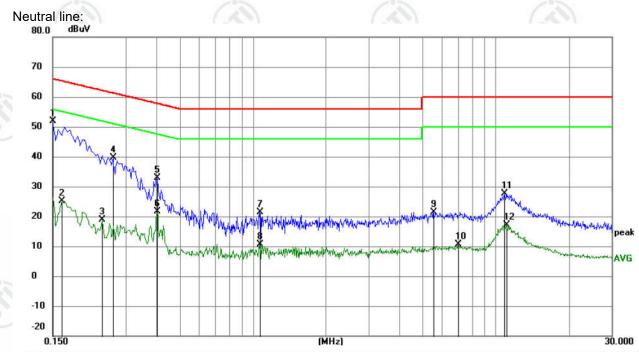
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





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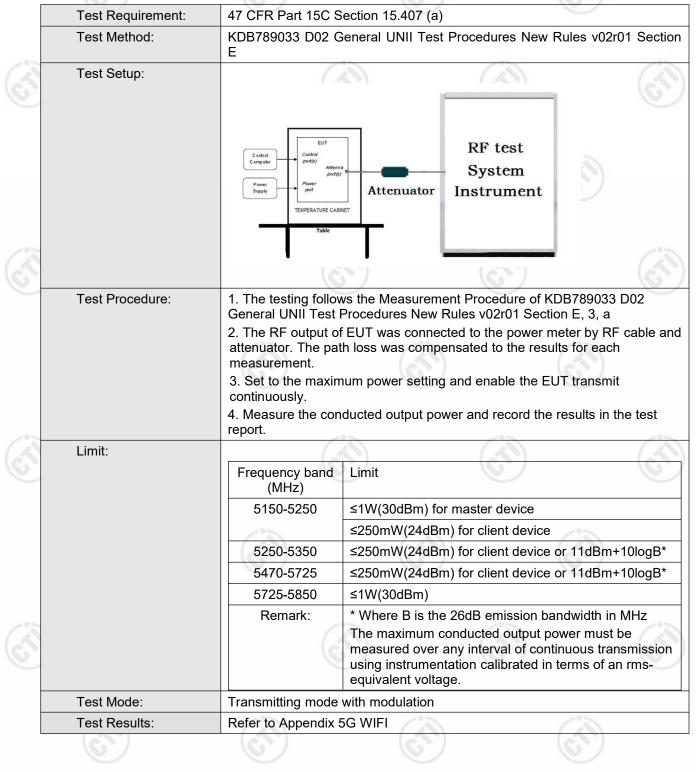
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	42.07	9.87	51.94	66.00	-14.06	QP	
2	0.1635	15.35	9.87	25.22	55.28	-30.06	AVG	
3	0.2400	8.84	9.95	18.79	52.10	-33.31	AVG	
4	0.2670	29.53	10.00	39.53	61.21	-21.68	QP	
5	0.4020	22.95	9.97	32.92	57.81	-24.89	QP	
6	0.4020	11.65	9.97	21.62	47.81	-26.19	AVG	
7	1.0680	11.53	9.83	21.36	56.00	-34.64	QP	
8	1.0680	0.75	9.83	10.58	46.00	-35.42	AVG	
9	5.5500	11.64	9.78	21.42	60.00	-38.58	QP	
10	6.9900	0.74	9.79	10.53	50.00	-39.47	AVG	
11	10.9005	17.86	9.81	27.67	60.00	-32.33	QP	
12	11.0760	7.21	9.81	17.02	50.00	-32.98	AVG	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



6.3 Maximum Conducted Output Power







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6.4 6dB Emisson Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.407 (e)
	Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Ś	Test Setup:	
		Control Composition Power Supply Temperature cabnet Table
(Å		Remark: Offset=Cable loss+ attenuation factor.
	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.
13	Limit:	≥ 500 kHz
	Test Mode:	Transmitting mode with modulation
	Test Results:	Refer to Appendix 5G WIFI



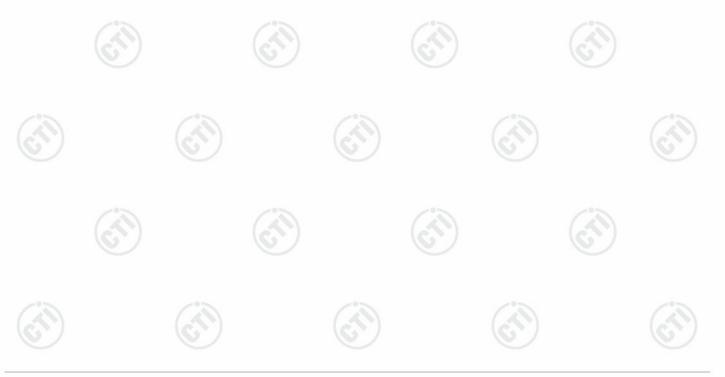




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6.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.407 (a)
	Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
S.	Test Setup:	
		Control Computer Supply Forwer Supply Table
1		Remark: Offset=Cable loss+ attenuation factor.
<u>_</u>	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) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. Measure and record the results in the test report.
	Limit:	No restriction limits
	Test Mode:	Transmitting mode with modulation
1 T A	Test Results:	Refer to Appendix 5G WIFI







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6.6 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C S	ection 15.407 (a))	
	Test Method:	KDB789033 D02 G	eneral UNII Test	Procedures New F	Rules v02r01 Section F
3	Test Setup:	-	· > .	102	
		Control Computer Power Supply TEMPERATURE CABI	Attenuator	RF test – System Instrument	
1		• Remark: Offset=Ca	• ble loss+ attenua	ation factor	
S.	Test Procedure:	bandwidth. 1. Set R Auto, Detector = R 2. Allow the sweeps	BW = 510 kHz/1 MS. s to continue unti	MHz, VBW ≥ 3*RE I the trace stabilize	•
	Limit:		(2)		
		Frequency band (MHz)	Limit)	©
				Hz for master devic	e
		(MHz)	≤17dBm in 1MF	Hz for master devic Hz for client device	e
<u>(</u>		(MHz)	≤17dBm in 1MF ≤11dBm in 1MF		e
(Å		(MHz) 5150-5250	≤17dBm in 1MF ≤11dBm in 1MF ≤11dBm in 1MF	Iz for client device	e
(X)		(MHz) 5150-5250 5250-5350	≤17dBm in 1MF ≤11dBm in 1MF ≤11dBm in 1MF	Hz for client device Hz for client device Hz for client device	e
Ś		(MHz) 5150-5250 5250-5350 5470-5725	≤17dBm in 1MH ≤11dBm in 1MH ≤11dBm in 1MH ≤11dBm in 1MH ≤30dBm in 500 The maximum p a conducted en	Hz for client device Hz for client device Hz for client device kHz power spectral den hission by direct co	sity is measured as
i i i	Test Mode:	(MHz) 5150-5250 5250-5350 5470-5725 5725-5850	≤17dBm in 1MH ≤11dBm in 1MH ≤11dBm in 1MH ≤11dBm in 1MH ≤30dBm in 500 The maximum a conducted en calibrated test i	Hz for client device Hz for client device Hz for client device kHz power spectral den hission by direct co	sity is measured as nnection of a



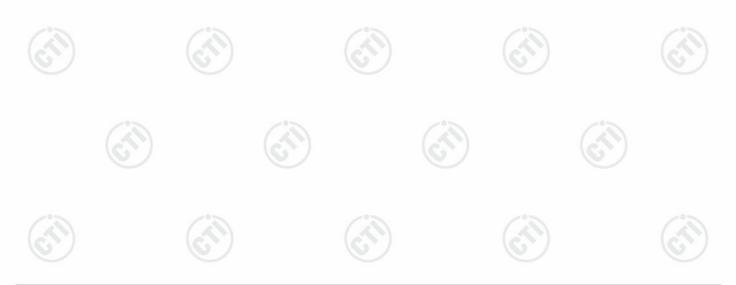




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6.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)
Test Method:	ANSI C63.10: 2013
Test Setup:	
	Control Computer Power Supply Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. Turn the EUT on and couple its output to a spectrum analyzer. 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. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. 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.
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 Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix 5G WIFI
(C)	



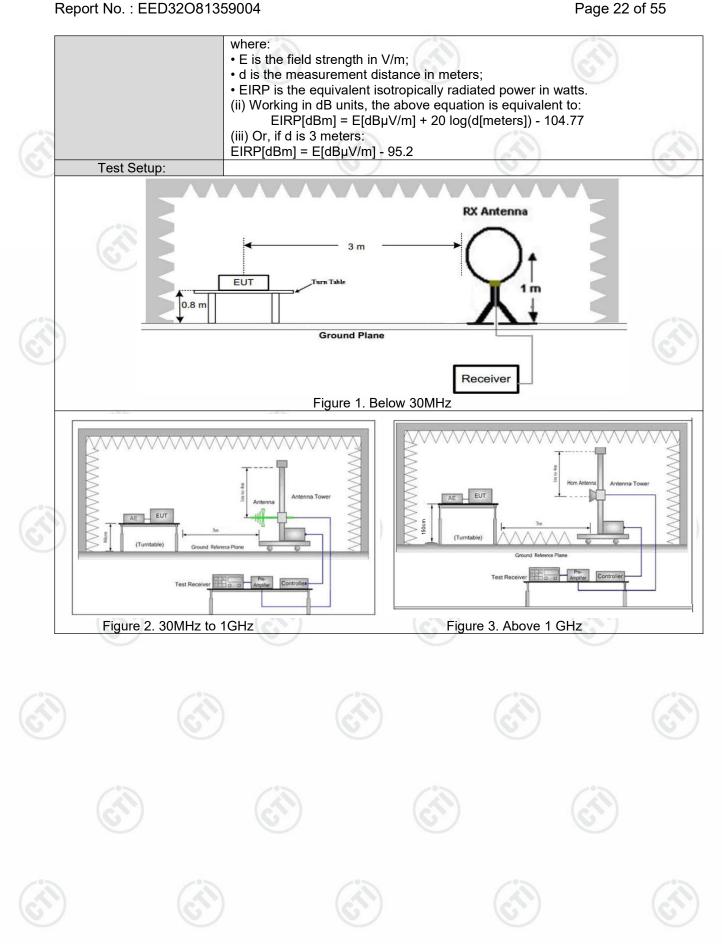


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6.8 Radiated Emission

Test Method:	47 CFR Part 15C Sect	ion 15.209 and F	Part 15E Se	ction 15.407	(D)
	ANSI C63.10 2013				
Test Site:	Measurement Distance	e: 3m (Semi-Ane	choic Chan	nber)	
Receiver Setup:	Frequency	Detector	RBW	V VBW	Remark
	0.009MHz-0.090MH		10kH	z 30kHz	Peak
	0.009MHz-0.090MH	Iz Average	10kH	z 30kHz	Average
	0.090MHz-0.110MH			z 30kHz	Quasi-peak
	0.110MHz-0.490MH	lz Peak	10kH	z 30kHz	Peak
	0.110MHz-0.490MH	Iz Average	10kH	z 30kHz	Average
	0.490MHz -30MHz	z Quasi-pea	ak 10kH	z 30kHz	Quasi-peak
	30MHz-1GHz	Quasi-pea	ak 100 kł	Hz 300kHz	Quasi-peak
		Peak	1MH	z 3MHz	Peak
	Above 1GHz	Peak	1MH	z 10kHz	Average
Limit:		· · · ·		· · · ·	·
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m
	0.009MHz-0.490MHz	2400/F(kHz)	6) -	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	*(1) For transmitters outside of the 5.15-5				
		5.35 GHz band erating in the 5.2 band shall not exc operating in the 5.725 GHz band erating in the 5.7 be limited to a lev and edge increas and edge, and f ly to a level of 15	shall not 5-5.35 GHz ceed an e.i. 5.47-5.72 d shall not 25-5.85 GH vel of -27 c sing linearly rom 25 MH 5.6 dBm/MI	exceed an z band: All em r.p. of -27 dE 5 GHz band: exceed an Hz band: IBm/MHz at 7 v to 10 dBm/M Hz above or b Hz at 5 MHz	e.i.r.p. of -2 hissions outsid 3m/MHz. All emission e.i.r.p. of -2 75 MHz or mor MHz at 25 MH below the ban above or belo









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Test Procedure:	 a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna
<u>8</u>	 d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified
	 Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel and the highest channel
3	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the
2	worst case.Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass

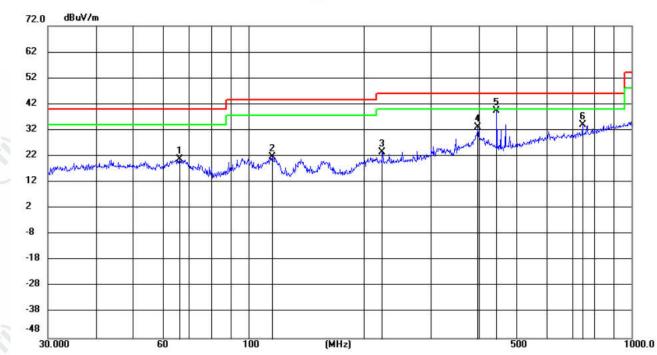




Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lower channel of 6Mbps antenna 1 of 802.11a was recorded in the report.

Test Graph



		Level	Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	66.2661	9.46	11.37	20.83	40.00	-19.17	peak	200	4	
2 1	115.7256	10.06	11.84	21.90	43.50	-21.60	peak	100	286	
3 2	223.7333	9.03	14.60	23.63	46.00	-22.37	peak	200	4	
4 3	397.6334	13.70	19.34	33.04	46.00	-12.96	peak	100	3	
5 * 4	444.8514	18.96	20.36	39.32	46.00	-6.68	peak	100	18	
6 7	744.8660	8.49	25.48	33.97	46.00	-12.03	peak	100	232	









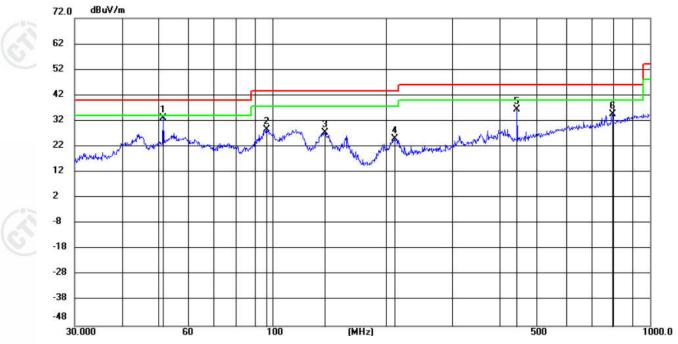
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	51.4807	19.11	14.16	33.27	40.00	-6.73	peak	100	4	
2		96.7749	14.99	13.60	28.59	43.50	-14.91	peak	100	299	
3		137.9028	18.22	9.23	27.45	43.50	-16.05	peak	100	278	
4		210.0482	11.04	14.13	25.17	43.50	-18.33	peak	100	139	
5		444.8514	16.16	20.36	36.52	46.00	-9.48	peak	100	53	
6		793.3960	8.50	26.27	34.77	46.00	-11.23	peak	100	4	





Transmitter Emission above 1GHz

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 a mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case was recorded in the

Mode	:	8	02.11 a Tran	smitting		Chann	el:	5180MHz		
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1434.5435	1.49	40.11	41.60	68.20	26.60	PASS	Horizontal	PK	
2	2453.7954	4.81	39.73	44.54	68.20	23.66	PASS	Horizontal	PK	
3	3933.9934	9.08	36.87	45.95	68.20	22.25	PASS	Horizontal	PK	
4	8282.0141	-10.99	54.21	43.22	68.20	24.98	PASS	Horizontal	PK	
5	11790.2645	-6.16	53.93	47.77	68.20	20.43	PASS	Horizontal	PK	
6	15000.6500	-0.95	50.82	49.87	68.20	18.33	PASS	Horizontal	PK	
7	1194.7195	0.81	41.30	42.11	68.20	26.09	PASS	Vertical	PK	
8	2100.6601	5.04	38.57	43.61	68.20	24.59	PASS	Vertical	PK	
9	3952.6953	9.18	37.30	46.48	68.20	21.72	PASS	Vertical	PK	
10	9104.8802	-8.61	53.72	45.11	68.20	23.09	PASS	Vertical	PK	
11	11786.8143	-6.14	53.68	47.54	68.20	20.66	PASS	Vertical	PK	
12	14356.6178	0.17	49.11	49.28	68.20	18.92	PASS	Vertical	PK	

1	Mode:			802.11 a Trar	smitting		Channe	el:	5200MHz	
3	NO	Freq. [MHz]	Facto [dB]	D a a dia a	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1356.9857	1.32	40.72	42.04	68.20	26.16	PASS	Horizontal	PK
	2	2411.9912	4.47	39.29	43.76	68.20	24.44	PASS	Horizontal	PK
	3	3290.4290	7.35	38.18	45.53	68.20	22.67	PASS	Horizontal	PK
	4	9191.1346	-7.80	52.63	44.83	68.20	23.37	PASS	Horizontal	PK
	5	11816.1408	-6.08	53.59	47.51	68.20	20.69	PASS	Horizontal	PK
	6	14354.3177	0.15	50.13	50.28	68.20	17.92	PASS	Horizontal	PK
12	7	1523.1023	1.78	39.65	41.43	68.20	26.77	PASS	Vertical	PK
3	8	2472.4973	4.96	39.60	44.56	68.20	23.64	PASS	Vertical	PK
-	9	3523.1023	7.48	38.12	45.60	68.20	22.60	PASS	Vertical	PK
	10	9168.7084	-8.01	53.86	45.85	68.20	22.35	PASS	Vertical	PK
	11	11898.9449	-5.45	5 54.14	48.69	68.20	19.51	PASS	Vertical	PK
	12	15898.8449	0.11	51.10	51.21	68.20	16.99	PASS	Vertical	PK
	I	(67)		67		165			500	·]











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				(1)		1.1		1		
	Mode:			802.11 a Tran	smitting		Channe	el:	5240MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
10	1	1399.3399	1.44	41.68	43.12	68.20	25.08	PASS	Horizontal	PK
3	2	2173.2673	4.23	39.41	43.64	68.20	24.56	PASS	Horizontal	PK
N.	3	3050.6051	6.68	38.92	45.60	68.20	22.60	PASS	Horizontal	PK
	4	9126.7313	-8.41	53.61	45.20	68.20	23.00	PASS	Horizontal	PK
	5	12441.7721	-4.12	52.77	48.65	68.20	19.55	PASS	Horizontal	PK
	6	16591.7546	1.27	51.30	52.57	68.20	15.63	PASS	Horizontal	PK
	7	1619.9120	2.56	39.20	41.76	68.20	26.44	PASS	Vertical	PK
	8	2338.8339	4.17	39.35	43.52	68.20	24.68	PASS	Vertical	PK
	9	3316.2816	7.42	38.21	45.63	68.20	22.57	PASS	Vertical	PK
10	10	7551.7276	-10.89	54.52	43.63	68.20	24.57	PASS	Vertical	PK
4	11	9736.2618	-7.42	53.01	45.59	68.20	22.61	PASS	Vertical	PK
0	12	13661.9831	-1.70	50.71	49.01	68.20	19.19	PASS	Vertical	PK

	Mode	:	8	302.11 a Tran	smitting		Channe	el:	5745MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	1272.8273	1.49	40.50	41.99	68.20	26.21	PASS	Horizontal	PK
	2	2121.5622	5.36	40.30	45.66	68.20	22.54	PASS	Horizontal	PK
că.	3	3050.6051	7.39	39.63	47.02	68.20	21.18	PASS	Horizontal	PK
4	4	7884.6923	-11.26	54.63	43.37	68.20	24.83	PASS	Horizontal	PK
2	5	10289.8860	-6.33	53.38	47.05	68.20	21.15	PASS	Horizontal	PK
	6	14325.8884	-0.16	50.66	50.50	68.20	17.70	PASS	Horizontal	PK
	7	1374.5875	1.77	40.90	42.67	68.20	25.53	PASS	Vertical	PK
	8	2106.1606	5.55	39.31	44.86	68.20	23.34	PASS	Vertical	PK
	9	3341.0341	8.25	37.92	46.17	68.20	22.03	PASS	Vertical	PK
	10	8337.8225	-10.88	53.72	42.84	68.20	25.36	PASS	Vertical	PK
Ī	11	11181.5788	-5.85	52.41	46.56	68.20	21.64	PASS	Vertical	PK
	12	12459.6973	-4.17	52.22	48.05	68.20	20.15	PASS	Vertical	PK















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						1.1		1	10	
	Mode:	:		802.11 a Tran	smitting		Channe	el:	5785MHz	
	NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1	1633.1133	2.99	39.64	42.63	68.20	25.57	PASS	Horizontal	PK
ධ	2	2678.2178	6.03	39.67	45.70	68.20	22.50	PASS	Horizontal	PK
2	3	3907.0407	9.75	36.98	46.73	68.20	21.47	PASS	Horizontal	PK
	4	9116.8078	-8.50	53.48	44.98	68.20	23.22	PASS	Horizontal	PK
	5	11853.2235	-5.80	53.55	47.75	68.20	20.45	PASS	Horizontal	PK
	6	14351.1901	0.11	49.83	49.94	68.20	18.26	PASS	Horizontal	PK
	7	1430.6931	1.85	40.50	42.35	68.20	25.85	PASS	Vertical	PK
	8	2675.4675	6.02	39.97	45.99	68.20	22.21	PASS	Vertical	PK
	9	3305.2805	8.31	38.86	47.17	68.20	21.03	PASS	Vertical	PK
10	10	7850.1900	-11.29	54.94	43.65	68.20	24.55	PASS	Vertical	PK
A	11	11974.3650	-4.99	52.24	47.25	68.20	20.95	PASS	Vertical	PK
0	12	14301.3534	-0.43	50.35	49.92	68.20	18.28	PASS	Vertical	PK

	Mode	:		802.11 a Tran	smitting		Channe	el:	5825MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	1393.8394	1.81	40.40	42.21	68.20	25.99	PASS	Horizontal	PK
	2	2067.1067	5.45	39.51	44.96	68.20	23.24	PASS	Horizontal	PK
cii	3	3482.3982	8.33	38.52	46.85	68.20	21.35	PASS	Horizontal	PK
4	4	8319.4213	-10.95	54.30	43.35	68.20	24.85	PASS	Horizontal	PK
2	5	11272.0515	-6.33	53.87	47.54	68.20	20.66	PASS	Horizontal	PK
	6	15958.9973	-0.08	50.88	50.80	68.20	17.40	PASS	Horizontal	PK
	7	1419.1419	1.84	40.17	42.01	68.20	26.19	PASS	Vertical	PK
	8	2399.8900	4.86	40.00	44.86	68.20	23.34	PASS	Vertical	PK
	9	3376.2376	8.19	37.62	45.81	68.20	22.39	PASS	Vertical	PK
	10	8978.0319	-8.59	52.22	43.63	68.20	24.57	PASS	Vertical	PK
	11	11821.7881	-6.03	52.82	46.79	68.20	21.41	PASS	Vertical	PK
	12	15943.6629	-0.03	50.94	50.91	68.20	17.29	PASS	Vertical	PK







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	Mode	:	80)2.11 n(HT4	0) Transmitti	ng	Chann	el:	5190MHz	
~	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
é	1	1432.3432	1.49	39.81	41.30	68.20	26.90	PASS	Horizontal	PK
~	2	1975.2475	4.51	39.59	44.10	68.20	24.10	PASS	Horizontal	PK
	3	2913.6414	6.33	38.73	45.06	68.20	23.14	PASS	Horizontal	PK
	4	7586.8043	-10.63	54.04	43.41	68.20	24.79	PASS	Horizontal	PK
	5	9659.7830	-7.47	53.80	46.33	68.20	21.87	PASS	Horizontal	PK
	6	12462.4731	-4.17	53.53	49.36	68.20	18.84	PASS	Horizontal	PK
	7	1476.8977	1.55	40.17	41.72	68.20	26.48	PASS	Vertical	PK
	8	2423.5424	4.56	39.54	44.10	68.20	24.10	PASS	Vertical	PK
-	9	3295.3795	7.37	38.42	45.79	68.20	22.41	PASS	Vertical	PK
	10	9137.0819	-8.31	53.76	45.45	68.20	22.75	PASS	Vertical	PK
S	11	12423.9462	-4.07	52.46	48.39	68.20	19.81	PASS	Vertical	PK
	12	15905.1703	0.11	51.07	51.18	68.20	17.02	PASS	Vertical	PK

								<u>~~</u>	
Mod	e:	4	802.11 n(HT4	0) Transmitti	ng	Channe	el:	5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1625.9626	2.60	39.38	41.98	68.20	26.22	PASS	Horizontal	PK
2	2531.9032	5.17	39.21	44.38	68.20	23.82	PASS	Horizontal	PK
3	3254.1254	7.20	38.79	45.99	68.20	22.21	PASS	Horizontal	PK
4	8495.3498	-10.59	53.32	42.73	68.20	25.47	PASS	Horizontal	PK
5	11218.1109	-5.87	52.52	46.65	68.20	21.55	PASS	Horizontal	PK
6	13095.0048	-3.13	52.42	49.29	68.20	18.91	PASS	Horizontal	PK
7	1488.4488	1.56	41.26	42.82	68.20	25.38	PASS	Vertical	PK
8	2334.9835	4.16	39.49	43.65	68.20	24.55	PASS	Vertical	PK
9	3254.1254	7.20	39.36	46.56	68.20	21.64	PASS	Vertical	PK
10	9235.4118	-7.67	52.46	44.79	68.20	23.41	PASS	Vertical	PK
11	12274.4387	-5.38	53.72	48.34	68.20	19.86	PASS	Vertical	PK
12	15901.7201	0.12	50.97	51.09	68.20	17.11	PASS	Vertical	PK
						~	1		











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Mode:	1 2 3 1		802.11 n(HT4	0) Transmitti	na	Chann	ol.	5755MHz	
NO	Freq. [MHz]	Factor [dB]	``	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1431.7932	1.85	40.62	42.47	68.20	25.73	PASS	Horizontal	PK
2	2478.5479	5.32	39.25	44.57	68.20	23.63	PASS	Horizontal	PK
3	3836.6337	9.49	38.57	48.06	68.20	20.14	PASS	Horizontal	PK
4	8850.7567	-9.19	52.64	43.45	68.20	24.75	PASS	Horizontal	PK
5	13145.9097	-3.05	51.54	48.49	68.20	19.71	PASS	Horizontal	PK
6	16611.4741	1.38	51.18	52.56	68.20	15.64	PASS	Polarity Horizontal Horizontal Horizontal Horizontal	PK
7	1378.9879	1.78	40.27	42.05	68.20	26.15	PASS	Vertical	PK
8	2389.9890	4.83	39.92	44.75	68.20	23.45	PASS	Vertical	PK
9	3052.8053	7.40	38.97	46.37	68.20	21.83	PASS	Vertical	PK
10	8860.7240	-9.21	51.95	42.74	68.20	25.46	PASS	Vertical	PK
11	11209.9473	-5.80	52.77	46.97	68.20	21.23	PASS	Vertical	PK
12	15505.8671	0.47	50.12	50.59	68.20	17.61	PASS	Vertical	PK

	Mode	:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	5795MHz	
	NO	Freq. [MHz]	Facto [dB]	Deeding	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1448.8449	1.87	40.35	42.22	68.20	25.98	PASS	Horizontal	PK
1	2	2420.2420	4.98	39.90	44.88	68.20	23.32	PASS	Horizontal	PK
6	3	3863.0363	9.58	37.51	47.09	68.20	21.11	PASS	Horizontal	PK
2	4	9661.1774	-7.48	3 52.97	45.49	68.20	22.71	PASS	Horizontal	PK
	5	12452.7969	-4.15	5 52.64	48.49	68.20	19.71	PASS	Horizontal	PK
	6	16281.0187	0.91	50.44	51.35	68.20	16.85	PASS	Horizontal	PK
	7	1647.9648	3.13	39.14	42.27	68.20	25.93	PASS	Vertical	PK
	8	2396.5897	4.85	41.57	46.42	68.20	21.78	PASS	Vertical	PK
	9	3881.7382	9.64	36.81	46.45	68.20	21.75	PASS	Vertical	PK
	10	9234.8823	-7.67	7 52.59	44.92	68.20	23.28	PASS	Vertical	PK
	11	11146.3098	-6.10	53.26	47.16	68.20	21.04	PASS	Vertical	PK
	12	13742.4162	-2.03	51.11	49.08	68.20	19.12	PASS	Vertical	PK
25	1.1		105		10.7	1	1657			Cr J

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

2) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.





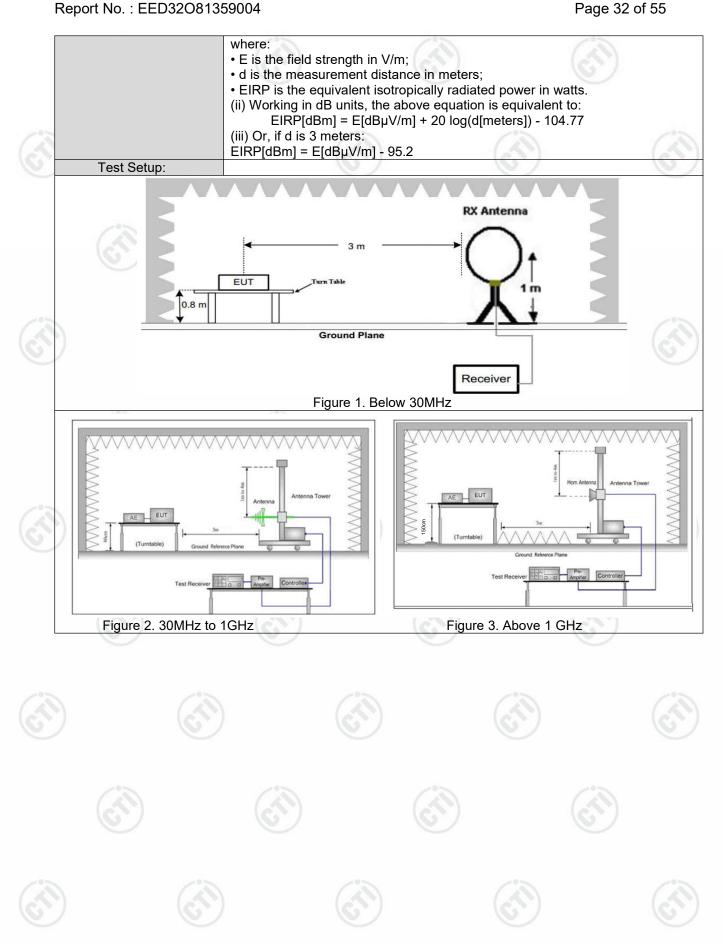


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6.9 Radiated Emission which fall in the restricted bands

	Test Requirement:	47 CFR Part 15C Section	on 15.209 and F	Part 15E S	ection 15.407	(b)					
	Test Method:	ANSI C63.10 2013									
	Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)									
1	Receiver Setup:	Frequency	Detector	RB\	N VBW	Remark					
<		0.009MHz-0.090MH	Iz Peak	10kł	Hz 30kHz	Peak					
2		0.009MHz-0.090MH	Iz Average	10k	Hz 30kHz	Average					
		0.090MHz-0.110MH	Iz Quasi-pea	ak 10kH	Hz 30kHz	Quasi-peak					
		0.110MHz-0.490MH	lz Peak	10kH	Hz 30kHz	Peak					
		0.110MHz-0.490MH	Iz Average	10kł	Hz 30kHz	Average					
		0.490MHz -30MHz	Quasi-pea	ak 10kH	Hz 30kHz	Quasi-peak					
		30MHz-1GHz	Quasi-pea	ak 100 k	Hz 300kHz	Quasi-peak					
		Above 1GHz	Peak	1MH	lz 3MHz	Peak					
			Peak	1MF	lz 10kHz	Average					
	Limit:										
3		Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m					
		0.009MHz-0.490MHz	2400/F(kHz)	6	9 -	300					
		0.490MHz-1.705MHz	24000/F(kHz)	-	-	30					
		1.705MHz-30MHz	30	-	-	30					
		30MHz-88MHz	100	40.0	Quasi-peak	3					
		88MHz-216MHz	150	43.5	Quasi-peak	3					
		216MHz-960MHz	200	46.0	Quasi-peak	3					
		960MHz-1GHz	500	54.0	Quasi-peak	3					
2		Above 1GHz	500	54.0	Average	3					
20		outside of the 5.15-5 dBm/MHz. (2) For transmitters ope of the 5.15-5.35 GHz b (3) For transmitters of outside of the 5.47-5 dBm/MHz. (4) For transmitters ope (i) All emissions shall b above or below the ba above or below the ba edge increasing linearl the band edge, and fr linearly to a level of 27 Remark: The emission measurements emplo frequency bands 9-90 emission limits in thes an average detector, the second second second the second second second second second second second second second second second second second second the second secon	erating in the 5.2 and shall not ex- perating in the .725 GHz band erating in the 5.7 be limited to a lev- ind edge increas and edge, and f y to a level of 19 rom 5 MHz abo dBm/MHz at the on limits showr ying a CISPR DkHz, 110-490k e three bands a	5-5.35 GH ceed an e. 5.47-5.72 shall no 25-5.85 G vel of -27 sing linearl rom 25 M 5.6 dBm/M ve or belo band edg n in the quasi-pea Hz and a ure based	Iz band: All ei i.r.p. of -27 d 25 GHz band of exceed an Hz band: dBm/MHz at y to 10 dBm/ Hz above or 1Hz at 5 MHz ow the band le. above table ak detector above 1000 on measuren	missions outsic Bm/MHz. I: All emission e.i.r.p. of -2 75 MHz or mon MHz at 25 MH below the bar above or belo edge increasin are based of except for th MHz. Radiate nents employin					
10		the maximum permittee under any condition of Note: (i) EIRP = ((E*d)^2) / 3	d average limits modulation.								







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Test Procedure:	 meters a was rota radiation. 2) Above meters a was rota radiation. 2) Above meters a was rota radiation. Note: Fo Place th determin distance, of emissi oriented to be hig the emiss maximum which m for maxir 1 m to 4 k. The EU antenna, tower. I. The anter ground the test for measure m. For each and then the test for meter) a degrees n. The test-Bandwidio. If the emission of the emission of the emission of the test for meter and then the test for meter and then the test for meter and then the test for meter and then the test for meter and test for meter an	bove the ground at a 3 meter ated 360 degrees to deter a 1G: The EUT was placed bove the ground at a 3 meter ated 360 degrees to deter ated 360 degrees to deter are measurement antenna a ed to be a source of emiss while keeping the measure ons at each frequency of sig for maximum response. The her or lower than the EUT, d sion and staying aimed at the n signal. The final measurem aximizes the emissions. The num emissions shall be rest m above the ground or referent T was set 3 meters awa which was mounted on the enna height is varied from o to determine the maximum al and vertical polarizations of ment. In suspected emission, the E the antenna was tuned to h frequency of below 30MHz, for and the rotatable table was to find the maximum reading receiver system was set to F th with Maximum Hold Mode ission level of the EUT in per- cified, then testing could be all be reported. Otherwise the would be re-tested one by method as specified and the EUT in the lowest channel, the ation measurements are per- smitting mode, and found the set.	way from each area of the EUT ions at the specified measurement ment antenna aimed at the source nificant emissions, with polarization e measurement antenna may have epending on the radiation pattern of e emission source for receiving the nent antenna elevation shall be that e measurement antenna elevation ricted to a range of heights of from ence ground plane. y from the interference-receiving e top of a variable-height antenna ne meter to four meters above the value of the field strength. Both of the antenna are set to make the UT was arranged to its worst case eights from 1 meter to 4 meters (for the antenna was tuned to heights 1 s turned from 0 degrees to 360 Peak Detect Function and Specified at mode was 10dB lower than the stopped and the peak values of the e emissions that did not have 10dB y one using peak, quasi-peak or in reported in a data sheet.
Test Mode:		mode with modulation	
Test Results:	Pass		



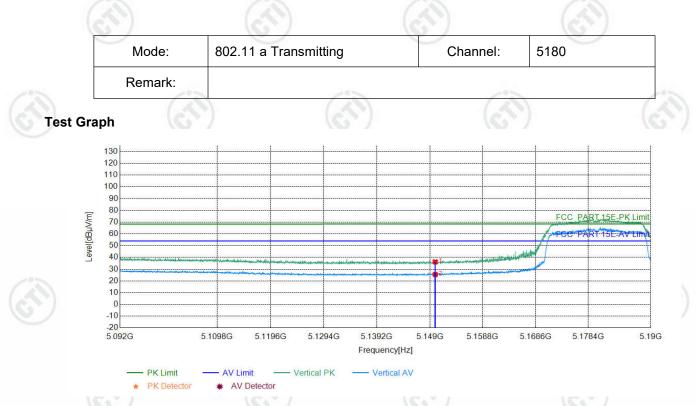


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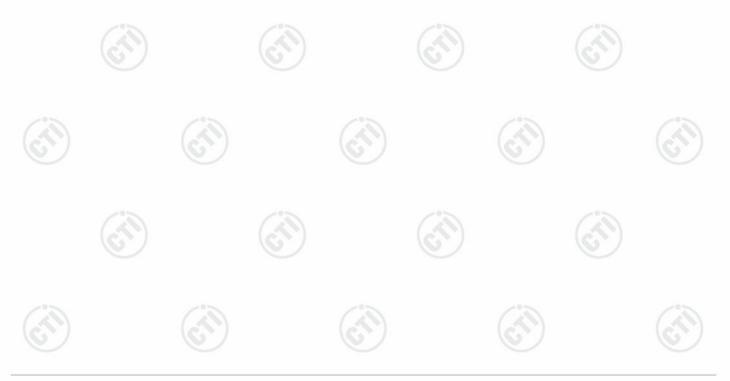




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	Suspe	cted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(c)	1	5150.0000	-15.08	51.28	36.20	68.44	32.24	PASS	Vertical	PK
S.	2	5150.0000	-15.08	40.53	25.45	54.00	28.55	PASS	Vertical	AV

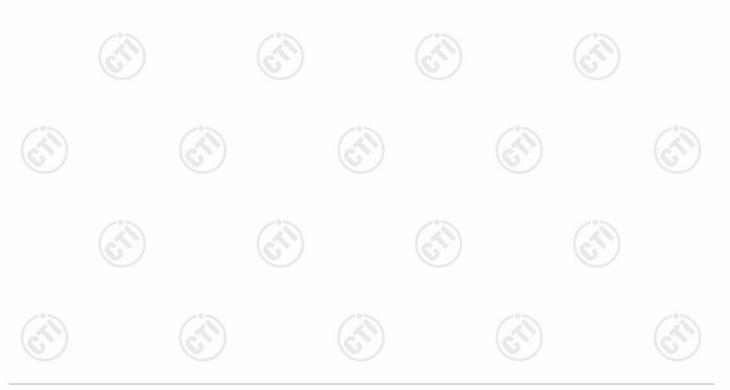




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Susp	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5743.8844	13.84	62.05	75.89	122.20	46.31	PASS	Horizontal	PK

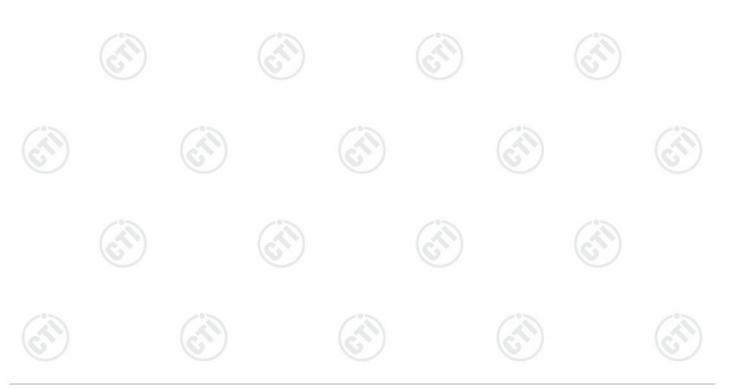




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	Suspec	ted List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	5746.8859	13.85	63.09	76.94	122.20	45.26	PASS	Vertical	PK

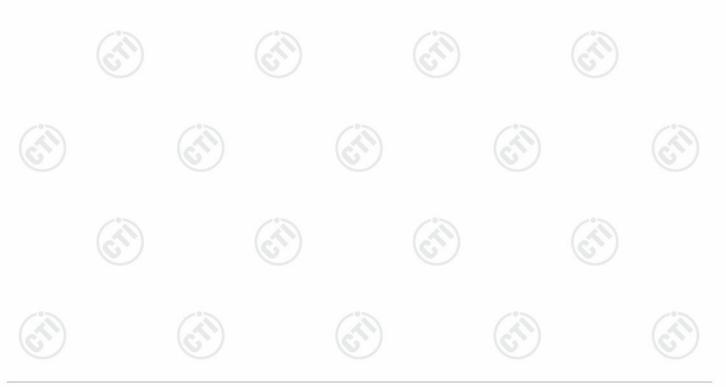




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	Suspec	ted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	5784.2171	13.91	62.29	76.20	122.20	46.00	PASS	Horizontal	PK
	1									

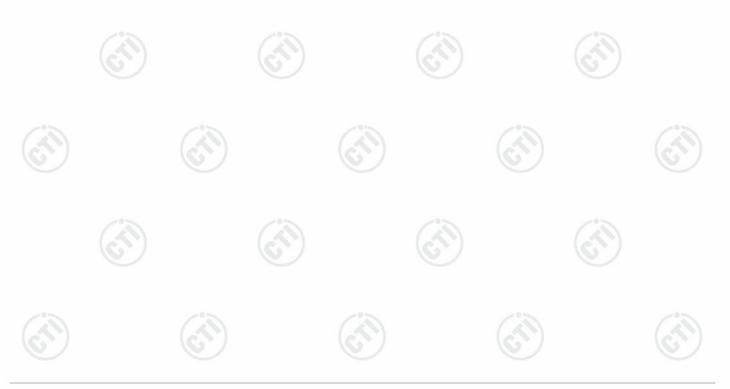




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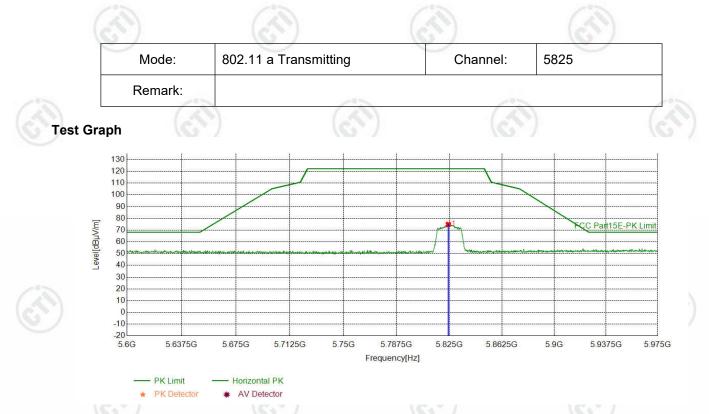


	Suspe	cted List								
~ 5	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	5783.8419	13.91	62.87	76.78	122.20	45.42	PASS	Vertical	PK

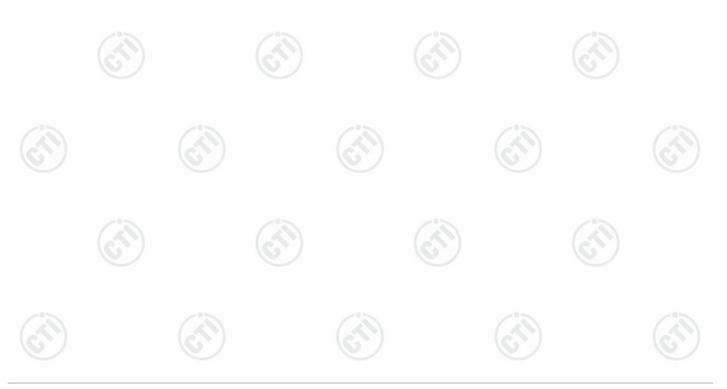




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Suspe	ected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5824.1746	14.03	60.91	74.94	122.20	47.26	PASS	Horizontal	PK

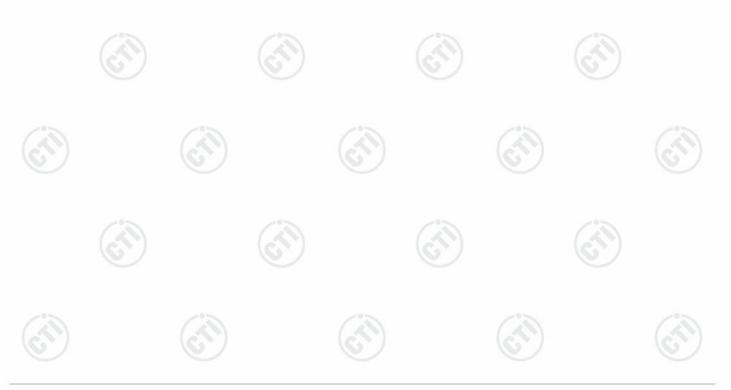




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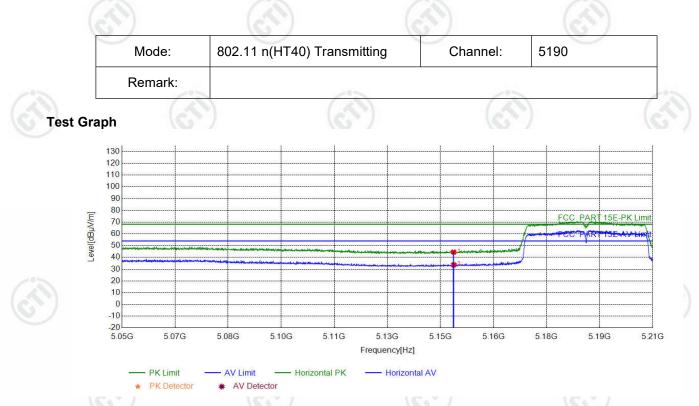


Suspe	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5824.5498	14.03	61.62	75.65	122.20	46.55	PASS	Vertical	PK

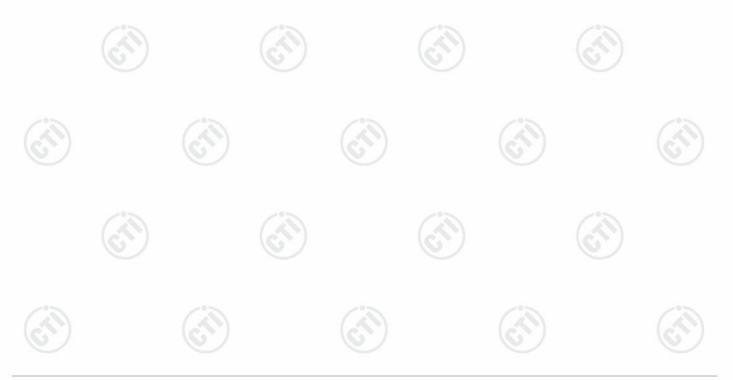




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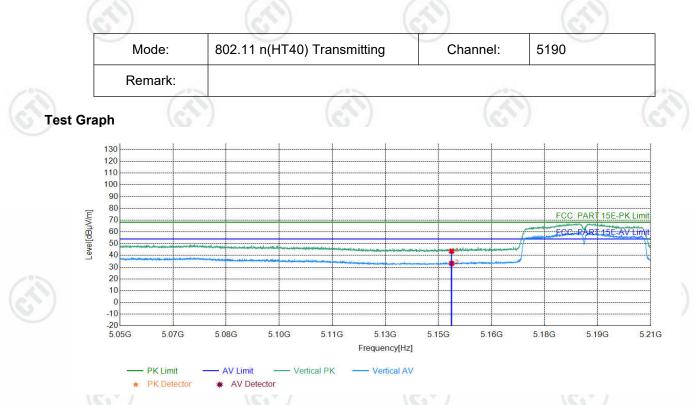


Suspec	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5150.0000	12.36	32.16	44.52	68.20	23.68	PASS	Horizontal	PK
2	5150.0000	12.36	21.26	33.62	54.00	20.38	PASS	Horizontal	AV





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	Suspec	ted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(a)	1	5150.0000	12.36	31.28	43.64	68.20	24.56	PASS	Vertical	PK
S.	2	5150.0000	12.36	20.82	33.18	54.00	20.82	PASS	Vertical	AV

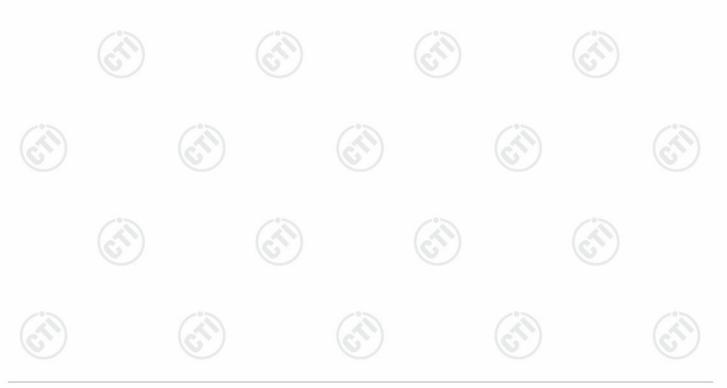




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Γ	Suspec	ted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	5753.6393	13.86	60.79	74.65	122.20	47.55	PASS	Horizontal	PK

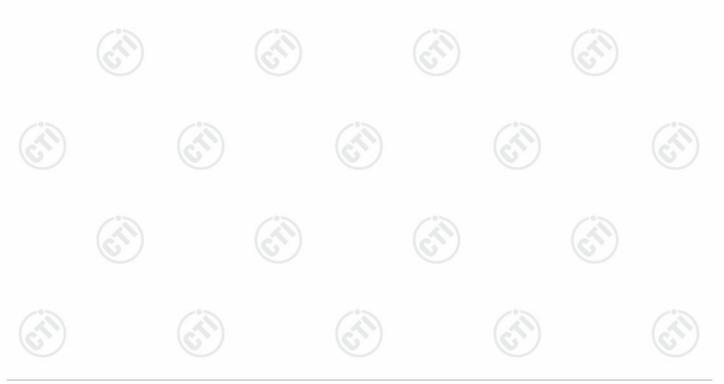




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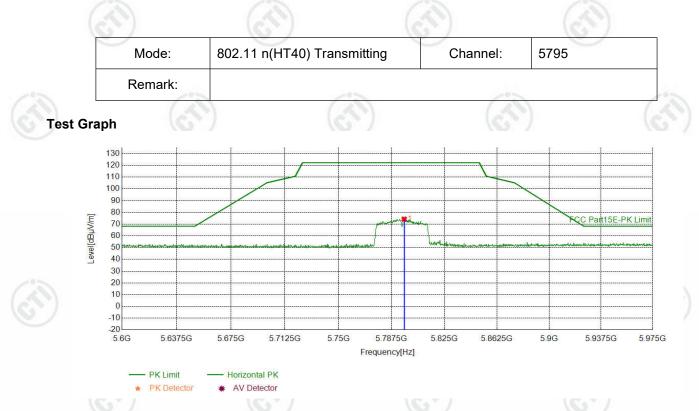


	Suspec	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
S	1	5764.8949	13.88	60.48	74.36	122.20	47.84	PASS	Vertical	PK

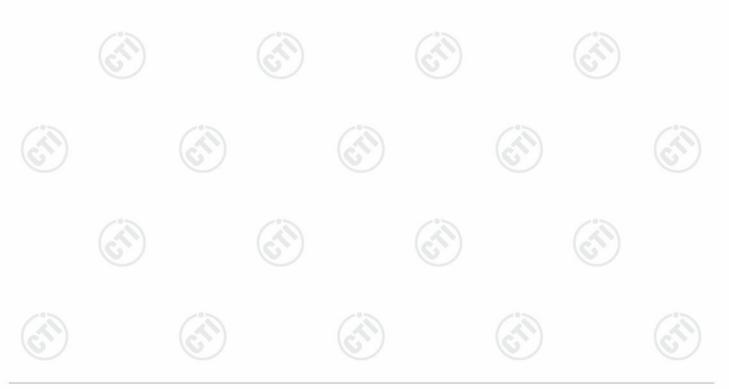




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	Suspected List												
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
2	1	5796.4107	13.93	60.35	74.28	122.20	47.92	PASS	Horizontal	PK			

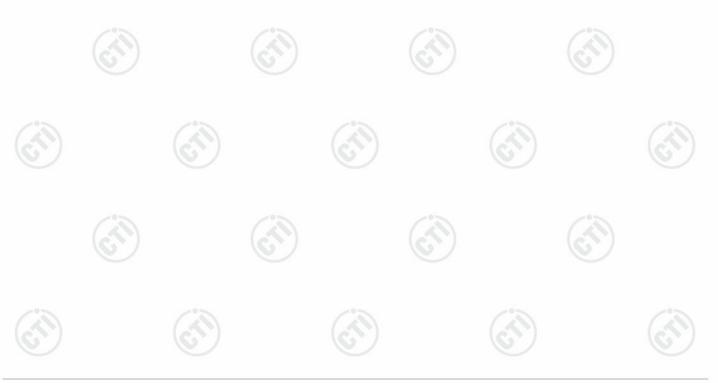




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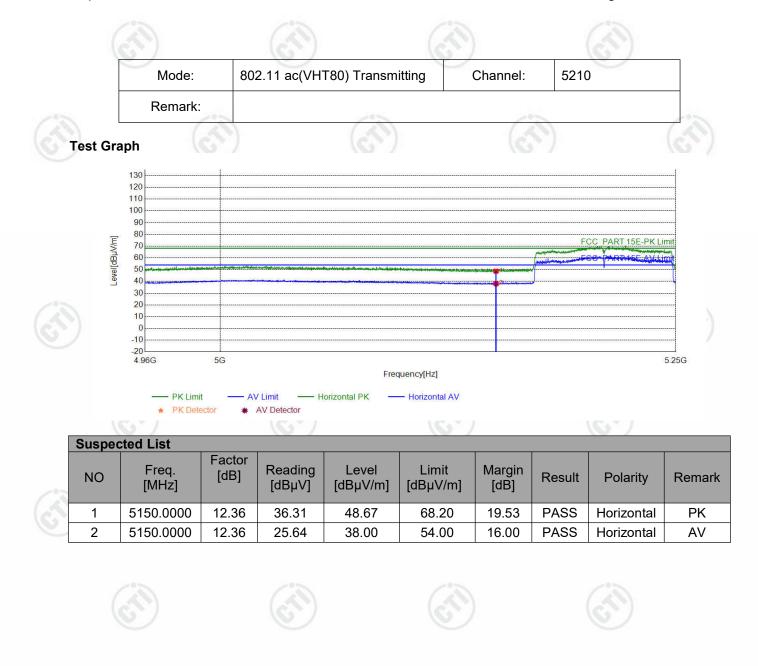


	Suspec	ted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	5793.5968	13.93	61.61	75.54	122.20	46.66	PASS	Vertical	PK
	1									





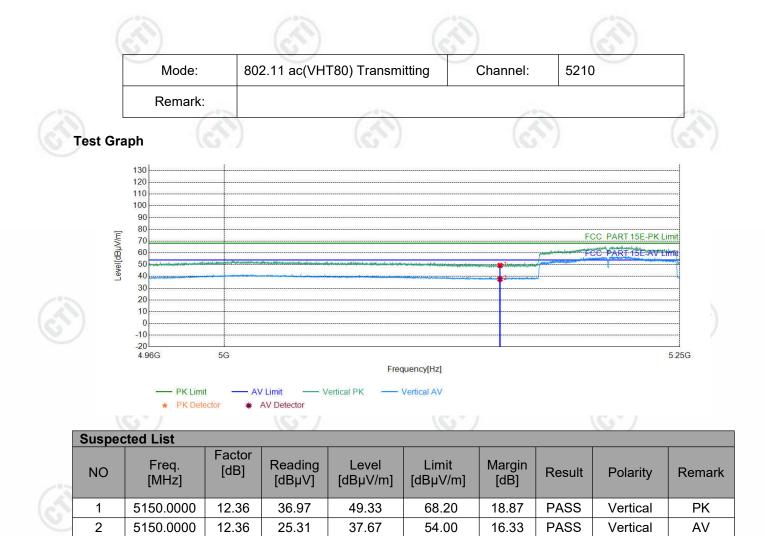
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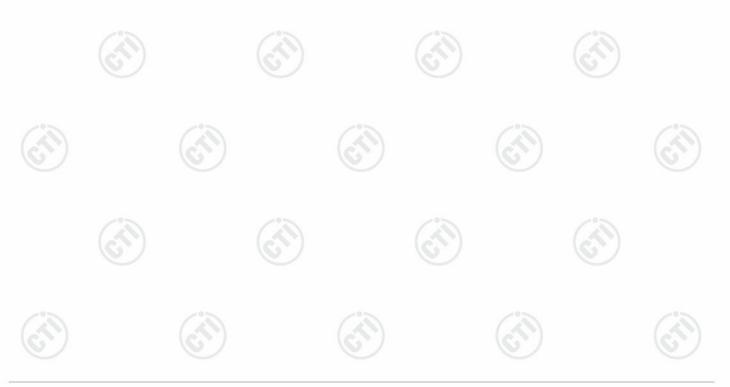




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	Suspec	ted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
5	1	5769.2096	13.89	57.77	71.66	122.20	50.54	PASS	Horizontal	PK





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Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor

2) Scan from 1GHz to 25GHz, the disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.







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Radiated spurious emission Test Setup-1(Below 1GHz)

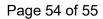


Radiated spurious emission Test Setup-2(Above 1GHz)











Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.



Conducted emission Test Setup-4







PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32O81359001 for EUT external and internal photos.

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