

Product



TEST REPORT

Trade mark Model/Type reference **Serial Number Report Number** FCC ID Date of Issue **Test Standards Test result**

Accent® 800

Accent : ACN800-40

: N/A

EED32O81098204

2AD9PA-A80040PRC Oct. 12, 2022 •

47 CFR Part 15 Subpart E

Prepared for:

PASS

Prentke Romich Company 1022 Heyl Rd. Wooster, Ohio 44691, United States of America

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



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Reviewed by:

Tom

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Oct. 12, 2022

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Date:



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Version No.	Date	Description	
00	Oct. 12, 2022	Original	10
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			C.







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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:		(\sim)	

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.









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5 General Information 5.1 Client Information

Applicant:	Prentke Romich Company	13	
Address of Applicant:	1022 Heyl Rd. Wooster, Ohio 44691, United States of America		
Manufacturer:	Prentke Romich Company dba PRC-Saltillo		
Address of Manufacturer:	1022 Heyl Rd. Wooster, Ohio 44691, United States of America		
Factory :	Estone Technology LTD		
Address of Factory :	,Building No.1, Jia'an Industrial Park,No.2 Long Chang Road, Bao'a nenzhen 518101, China.		

5.2 General Description of EUT

Product Name:	Accent® 800				
Model No.:	ACN800-40				
Trade mark:	Accent	<u>(</u>	(~~)	(2)	
Product Type:	🗌 Mobile	Portable	Fix Location	e	
Type of Modulation:	IEEE 802.111 IEEE 802.111 64QAM, 256 IEEE 802.111	n(HT20/HT40): Ol ac(HT20/HT40/HT QAM)	QPSK, 16QAM, 64QAM) FDM (BPSK, QPSK, 16Q T80): OFDM (BPSK, QPS E80): OFDM (BPSK, QPS	am, 64qam) 5K, 16qam,	
Operating Frequency	U-NII-1:5150-5250MHz U-NII-3:5745-5825MHz				
Antenna Type:	internal anter	nna	(cr)	(6)	
Antenna Gain:	5G WiFi BAN	IBi; ANT2: 1.96dE			
Power Supply:	Adapter:	input: 100-2	NGO60S-18BB-PRC 240V~50/60Hz,1.5A MAX ,3.33A,60W MAX	2	
	Battery:	model: 3768 DC 7.6V,780	393 10mAh,59.28Wh		
Test voltage:	DC 7.6V				
	Jul. 22, 2022				
Sample Received Date:	,				





Operation Frequency each of channel	
802.11a/802.11n/802.11ac/802.11ax	(20MHz) Frequency/Channel Operations:

-	ooen rak		leyrenanner operatione.			
	U-NII-1		U-NII-3			
	Channel	Frequency(MHz)	Channel	Frequency(MHz)		
	36	5180	149	5745		
2	40	5200	153	5765		
	44	5220	157	5785		
	48	5240	161	5805		
	.0	<u> </u>	165	5825		

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

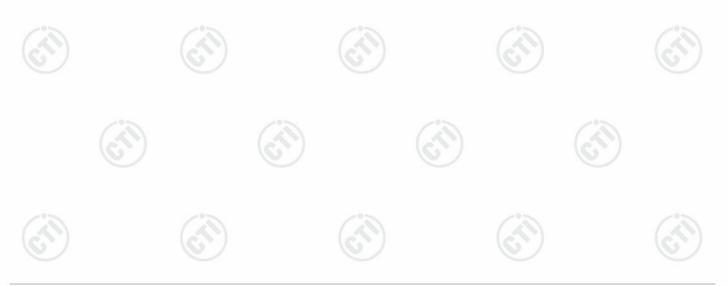
)	U-NII-1		U-NII-3
Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
46	5230	159	5795
(2)			•

802.11ac/802.11ax (80MHz) Frequency/Channel Operations:

	U-NII-1		U-NII-3
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:















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5.3 Test Configuration

EUT Test Software Settings:			
Software:	DRTU_install.exe	(°)	1
EUT Power Grade:	Default	(35) (
Use test software to set the lot transmitting of the EUT.	lest frequency, the middle frequen	ncy and the highest frequency keep	V
Test Mode:			
	on and function in typical operatio on, which was shown in this test re	n. All the test modes were carried out eport and defined as follows:	with
Per-scan all kind of data rate	in lowest channel, and found th	ne follow list which it	
was worst case.			
Mode		Data rate	
802.11a		6 Mbps	
802.11n(H ⁻	20)	MCS0	2
802.11n(H	40)	MCS0	2
802.11ac(VH	T20)	MCS0	S
802.11ac(VF	T40)	MCS0	
802.11ac(VF	T80)	MCS0	
802.11ax(H		MCS0	
802.11ax(H	-40)	MCS0	
802.11ax(H	-80)	MCS0	

5.4 Test Environment

2°2	2°	23	2
Operating Environment:			
Radiated Spurious Emission	s:		
Temperature:	22~25.0 °C		
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
Conducted Emissions:			
Temperature:	22~25.0 °C		
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		13
RF Conducted:	·		
Humidity:	50~55 % RH	U	e
Atmospheric Pressure:	1010mbar		
	NT (Normal Temperature)	22~25.0 °C	
Temperature:	LT (Low Temperature)	0 °C	
	HT (High Temperature)	40 °C	O
Working Voltage of the EUT:	NV (Normal Voltage)	DC 7.60	
	LV (Low Voltage)	DC 6.84	
	HV (High Voltage)	DC 8.36	13







5.5 Description of Support Units

The EUT has been tested independently

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.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
0		0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-18GHz)	
3	\sim	3.3dB (9kHz-30MHz)	
	Dedicted Courieus emission test	4.5dB (30MHz-1GHz)	
	Radiated Spurious emission test	4.8dB (1GHz-18GHz)	
<u>3)</u>		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
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021 07-29-2022	08-25-2022 07-28-2023
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		<u></u>

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	1	<u> </u>				
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023			
Barometer	changchun	DYM3	1188					











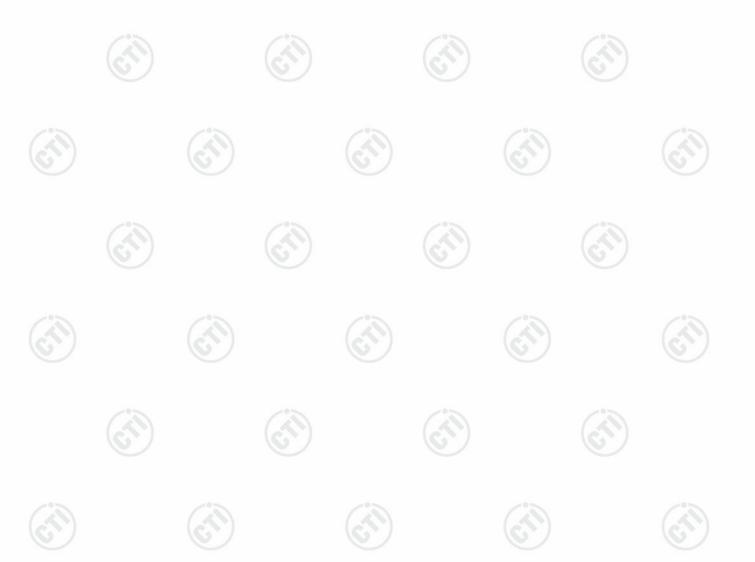






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	3M Semi-an	echoic Chamber (2)	Radiated distu	rbance Test	
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2023
Multi device Controller	maturo	NCD/070/10711112		(2)	
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	трк	FAC-3	$\underline{\bigcirc}$	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	- (2)	-
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) (I
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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7 Radio Technical Requirements Specification

7.1 Antenna Requirement

	Standard requirement:	47 CFR Part 15C Secti	on 15.203		U
()	responsible party shall be antenna that uses a uniqu so that a broken antenna electrical connector is pro		use of a permanently a al radiator, the manufac er, but the use of a stan	attached antenna or of turer may design the u	an
	EUT Antenna:	Please see Internal pho			
		ntenna. The best case gain .96dBi , 5G WiFi BAND4:/			
(1)			(J)		S)





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Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	e: 150kHz to 30MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	Sweep time=auto		G			
Limit:		Limit (dBuV)	~			
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarith						
Test Setup:							
Test Procedure:	1) The mains terminal distur room.	AE ISN2 + AC M Ground Reference Plane bance voltage test was		shielde			
	 2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way multiple socket outlet strip single LISN provided the r 3) The tabletop EUT was placed on the horizontal g 4) The test was performed w the EUT shall be 0.4 m vertical ground reference plane. The LIS unit under test and bor mounted on top of the group 	Network) which provide cables of all other SN 2, which was bonde as the LISN 1 for the o was used to connect rating of the LISN was aced upon a non-meta And for floor-standing a pround reference plane. ith a vertical ground re from the vertical groud plane was bonded N 1 was placed 0.8 m nded to a ground re pund reference plane. T	s a $50\Omega/50\mu$ H + 9 units of the EU ed to the ground r e unit being mea multiple power ca not exceeded. allic table 0.8m a urrangement, the I ference plane. The und reference plate to the horizonta from the bounda ference plane for This distance was All other units of	5Ω linea JT wei reference sured. ables to bove the EUT wat he rear of ane. The I ground ary of the provide the second bot LISN betwee			
	unit under test and bor mounted on top of the gro	nded to ound refe LISN 1	a ground re erence plane. T and the EUT.	s placed 0.8 m from the bounda a ground reference plane for erence plane. This distance was and the EUT. All other units of			







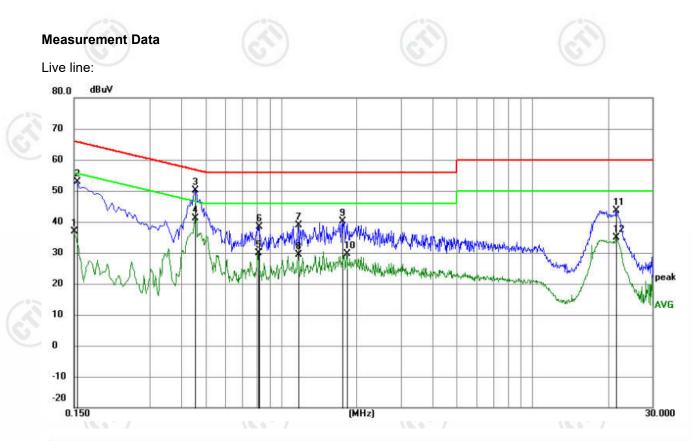
Report No. : EED32O81098204

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Test Mode:			0: 2013 on co ere tested, on		rded in the re	port.
Test Results	:	Pass		U	V	·



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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	26.93	9.87	36.80	56.00	-19.20	AVG	
2		0.1545	42.90	9.87	52.77	65.75	-12.98	QP	
3		0.4560	40.18	9.96	50.14	56.77	-6.63	QP	
4	*	0.4560	31.25	9.96	41.21	46.77	-5.56	AVG	
5		0.8115	20.01	9.85	29.86	46.00	-16.14	AVG	
6		0.8160	28.44	9.85	38.29	56.00	-17.71	QP	
7		1.1715	29.14	9.82	38.96	56.00	-17.04	QP	
8		1.1715	19.67	9.82	29.49	46.00	-16.51	AVG	
9		1.7610	30.35	9.80	40.15	56.00	-15.85	QP	
10		1.8285	19.80	9.80	29.60	46.00	-16.40	AVG	
11		21.5475	33.61	9.98	43.59	60.00	-16.41	QP	
12		21.5475	24.93	9.98	34.91	50.00	-15.09	AVG	

Remark:

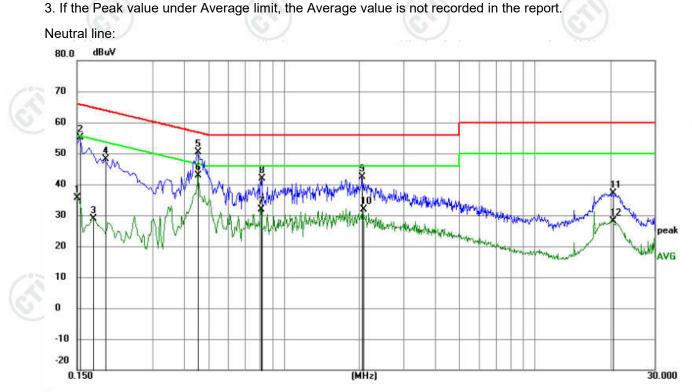
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





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1	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
-	1		0.1500	25.82	9.87	35.69	56.00	-20.31	AVG	
_	2		0.1545	45.19	9.87	55.06	65.75	-10.69	QP	
_	3		0.1749	18.92	9.87	28.79	54.72	-25.93	AVG	
_	4		0.1949	38.18	9.87	48.05	63.83	-15.78	QP	
	5		0.4560	40.49	9.96	50.45	56.77	-6.32	QP	
	6	*	0.4560	32.82	9.96	42.78	46.77	-3.99	AVG	
_	7		0.8114	22.12	9.85	31.97	46.00	-14.03	AVG	
-	8		0.8160	32.03	9.85	41.88	56.00	-14.12	QP	
_	9		2.0490	32.69	9.79	42.48	56.00	-13.52	QP	
18	10		2.0849	21.98	9.79	31.77	46.00	-14.23	AVG	
13	11		20.4225	27.25	9.97	37.22	60.00	-22.78	QP	
19	12		20.4225	18.13	9.97	28.10	50.00	-21.90	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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7.3 Maximum Conducted Output Power

	Test Requirement:	47 CFR Part 15C S	ection 15.407 (a)		
	Test Method:	KDB789033 D02 G E	General UNII Test	Procedures New Rules	v02r01 Section
S.	Test Setup:	0	9		0
~		Eutrol Control Computer Poorter Supply TEMPERATURE CABI	Attenuator	RF test System Instrument	
Ś					
	Test Procedure:	General UNII Test I 2. The RF output of attenuator. The pat measurement. 3. Set to the maxim continuously.	Procedures New f EUT was connec h loss was comp num power setting	ent Procedure of KDB78 Rules v02r01 Section E, cted to the power meter ensated to the results fo g and enable the EUT tra wer and record the resul	3, a by RF cable and r each ansmit
ST.	Limit:	0			
	Limit:				
		Frequency band (MHz)	Limit		<u></u>
			Limit ≤1W(30dBm) fo	r master device	
		(MHz)	≤1W(30dBm) fo	r master device n) for client device	
		(MHz)	≤1W(30dBm) fo ≤250mW(24dBr	(4	dBm+10logB*
		(MHz) 5150-5250	≤1W(30dBm) fo ≤250mW(24dBr ≤250mW(24dBr	n) for client device	u
		(MHz) 5150-5250 5250-5350	≤1W(30dBm) fo ≤250mW(24dBr ≤250mW(24dBr	n) for client device n) for client device or 11	.
(A)		(MHz) 5150-5250 5250-5350 5470-5725	≤1W(30dBm) for ≤250mW(24dBr ≤250mW(24dBr ≤250mW(24dBr ≤1W(30dBm) * Where B is the The maximum of measured over	n) for client device n) for client device or 11 n) for client device or 11 e 26dB emission bandwi conducted output power any interval of continuou tation calibrated in terms	dBm+10logB* dth in MHz must be us transmission
(ji	Test Mode:	(MHz) 5150-5250 5250-5350 5470-5725 5725-5850	≤1W(30dBm) fo ≤250mW(24dBr ≤250mW(24dBr ≤250mW(24dBr ≤1W(30dBm) * Where B is the The maximum of measured over using instrumen equivalent volta	n) for client device n) for client device or 11 n) for client device or 11 e 26dB emission bandwi conducted output power any interval of continuou tation calibrated in terms	dBm+10logB* dth in MHz must be us transmission













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7.4 6dB Emisson Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.407 (e)
(A	Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
C.	Test Setup:	Control Computer Comp
C.Y.		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	 1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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. 4. Measure and record the results in the test report.
6	Limit:	≥ 500 kHz
	Test Mode:	Transmitting mode with modulation
	Test Results:	Refer to Appendix 5G WIFI





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7.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.407 (a)
13	Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
(S	Test Setup:	
		RF test System Power Supply Temperature Cable loss+ attenuation factor. RF test System Instrument
	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.
100	Limit:	No restriction limits
(2)	Test Mode:	Transmitting mode with modulation
C	Test Results:	Refer to Appendix 5G WIFI







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7.6 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C S	ection 15.407 (a))	
1	Test Method:	KDB789033 D02 G	eneral UNII Test	Procedures New Rule	es v02r01 Section F
3	Test Setup:	(6	57)	(25)	(ST)
		Control Congrutes Power Supply TEMPERATURE CABI	Attenuator	RF test - System Instrument	
<u>3</u>		Remark: Offset=Ca			G
	Test Procedure:	bandwidth. 1. Set F Auto, Detector = RI 2. Allow the sweeps	RBW = 510 kHz/1 MS. s to continue unti	receiver span to view MHz, VBW ≥ 3*RBW I the trace stabilizes. letermine the maximu	, Sweep time =
	Limit:		U		\bigcirc
		Frequency band (MHz)	Limit		
2		5150-5250	≤17dBm in 1MH	Iz for master device	
5		ci (ci	≤11dBm in 1MI	Iz for client device	6
		5250-5350	≤11dBm in 1MH	Iz for client device	\smile
		5470-5725	≤11dBm in 1Mł	Iz for client device	
		5725-5850	≤30dBm in 500	kHz	2
		Remark:	a conducted en	oower spectral density hission by direct conne nstrument to the equip	ection of a
	Test Mode:	Transmitting mode	with modulation		
	Test Results:	Refer to Appendix &	5G WIFI	C'>	12
<u>()</u>	(ST)	ć	5)	S)	6







7.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)	
Test Method:	ANSI C63.10: 2013	(°)	12
Test Setup:	(25)	(25)	(See
	Control Congular Congruent Congruent Congruent Control Congruent Control Congruent Control Congruent Control Congruent Power Power Port TemPERATURE CABINET Table	RF test – System Instrument	
	Remark: Offset=Cable loss+ attenua	ation factor.	
Test Procedure:	 The EUT was placed inside the erby nominal AC/DC voltage. Turn the EUT on and couple its or 3. Turn the EUT off and set the char specified. d. Allow sufficient time (ap of the chamber to stabilize. Repeat step 2 and 3 with the tem temperature. The test chamber was allowed to of 30 minutes. The supply voltage w 115% and the frequency record. 	utput to a spectrum a mber to the highest t oproximately 30 min) perature chamber se stabilize at +20 deg ras then adjusted on	analyzer. emperature for the temperature et to the lowest ree C for a minimum the EUT from 85% to
Limit:	The frequency tolerance shall be frequency over a temperature vari normal supply voltage, and for a va 85% to 115% of the rated supply vol	ation of 0 degrees riation in the primar	to 45 degrees C at y supply voltage from
Test Mode:	Transmitting mode with modulation		
Test Results:	Refer to Appendix 5G WIFI		$\langle \mathcal{O} \rangle$







7.8 Radiated Emission

	Test Requirement:	47 CFR Part 15C Sec	tion 1	5.209 and 1	5.407 (b)			
	Test Method:	ANSI C63.10 2013						- 51
~	Test Site:	Measurement Distanc	e: 3n	n (Semi-Aneo	choic Cha	ambe	er)	(A)
2	Receiver Setup:	Frequency)	Detector	RB	W	VBW	Remark
		0.009MHz-0.090MH	Ηz	Peak	10k	Hz	30kHz	Peak
		0.009MHz-0.090MH	Ηz	Average	10k	Hz	30kHz	Average
		0.090MHz-0.110M	Ηz	Quasi-pea	k 10k	Hz	30kHz	Quasi-peak
		0.110MHz-0.490M	Ηz	Peak	10k	Hz	30kHz	Peak
		0.110MHz-0.490M	Ηz	Average	10k	Hz	30kHz	Average
		0.490MHz -30MH	z	Quasi-pea	k 10k	Hz	30kHz	Quasi-peak
2		30MHz-1GHz	0	Quasi-pea	k 100	kHz	300kHz	Quasi-peak
<u>}</u>		Above 1GHz	7	Peak	1M	Hz	3MHz	Peak
_		Above IGHZ	_	Peak	1M	Hz	10kHz	Average
	Limit:	Frequency	(mic	ld strength rovolt/meter)	Limit (dBuV/m) F	Remark	Measurement distance (m)
		0.009MHz-0.490MHz	24	00/F(kHz)	-		- &	300
		0.490MHz-1.705MHz	24	000/F(kHz)	-		-	30
		1.705MHz-30MHz		30	-		-	30
8		30MHz-88MHz	0	100	40.0	Qu	iasi-peak	3
		88MHz-216MHz	2	150	43.5	Qu	iasi-peak	3
		216MHz-960MHz		200	46.0	Qu	iasi-peak	3
		960MHz-1GHz		500	54.0	QL	iasi-peak	3
		Above 1GHz		500	54.0	A	verage	3
		 *(1) For transmitters outside of the 5.15- dBm/MHz. (2) For transmitters op of the 5.15-5.35 GHz I (3) For transmitters outside of the 5.47- dBm/MHz. (4) For transmitters op (i) All emissions shall above or below the be above or below the be edge increasing linear the band edge, and f linearly to a level of 27 	5.35 beration operation be line and end ly to from 7 dBn	GHz band ng in the 5.2 shall not exc ating in the 5 GHz band ng in the 5.7 nited to a lev edge increas edge, and fi a level of 15 5 MHz abov n/MHz at the	shall no 5-5.35 Gl ceed an e 5.47-5.7 shall n 25-5.85 C vel of -27 ing linea rom 25 M 5.6 dBm/l ve or bel band ed	ot ex Hz ba Li.r.p 25 C ot ex Hz b dBn dy to 1Hz a MHz ow th ge.	and: All em of -27 dE GHz band: acceed an oand: n/MHz at 7 10 dBm/M above or b at 5 MHz a he band e	e.i.r.p. of -27 hissions outside Bm/MHz. All emissions e.i.r.p. of -27 5 MHz or more MHz at 25 MHz below the band above or below dge increasing
		Remark: The emissi measurements emplo frequency bands 9-9 emission limits in the	oying 0kHz	a CISPR z, 110-490k	quasi-pe Hz and	eak abo∖	detector e /e 1000 N	except for the MHz. Radiated

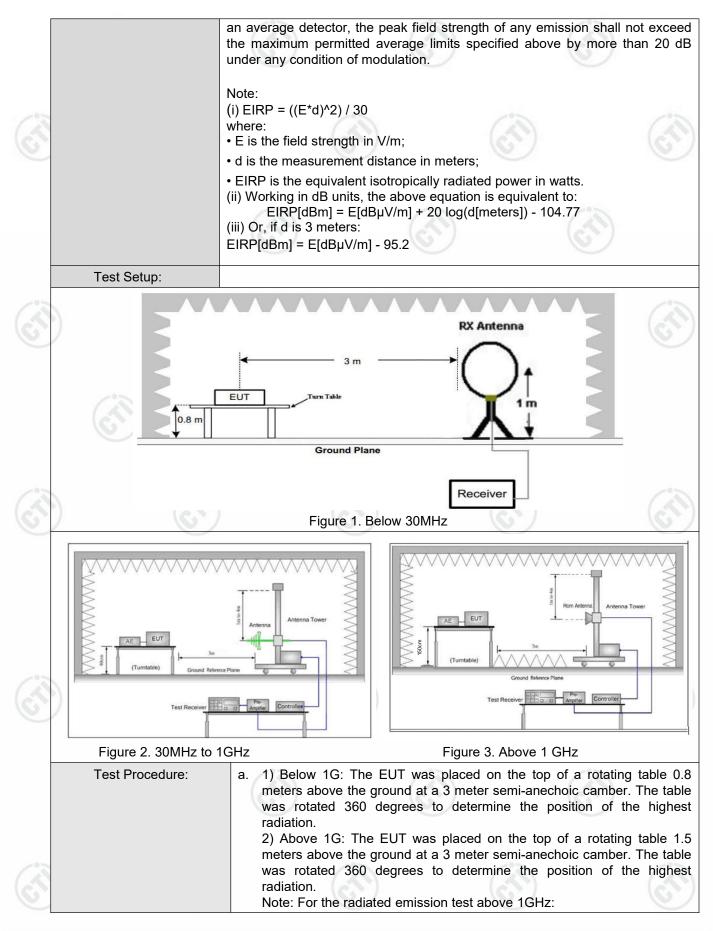






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 distance of emission of emission	diation measurements are performed in X, Y, Z axis positioning nsmitting mode, and found the X axis positioning which it is the
	g mode with modulation
	y more with modulation
	g mode with modulation

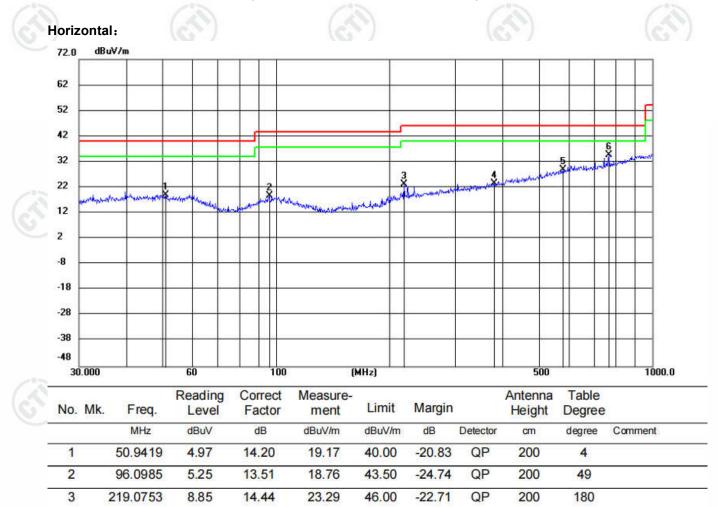






Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

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



4

5

6

381.2485

578.6700

766.0571

4.57

5.47

8.74

18.99

23.50

25.83

23.56

28.97

34.57

46.00

46.00

46.00



-22.44

-17.03

-11.43

QP

QP

QP

100

100

200



18

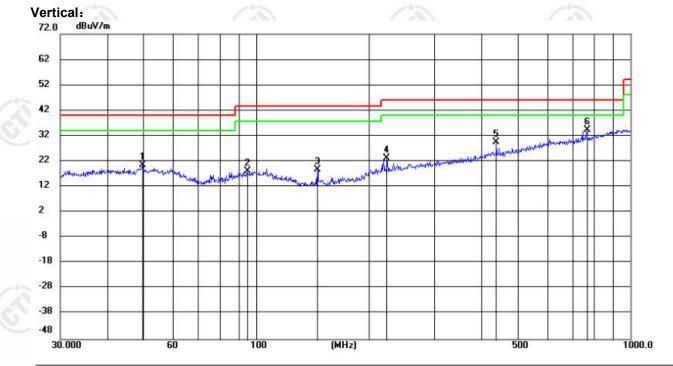
18

4

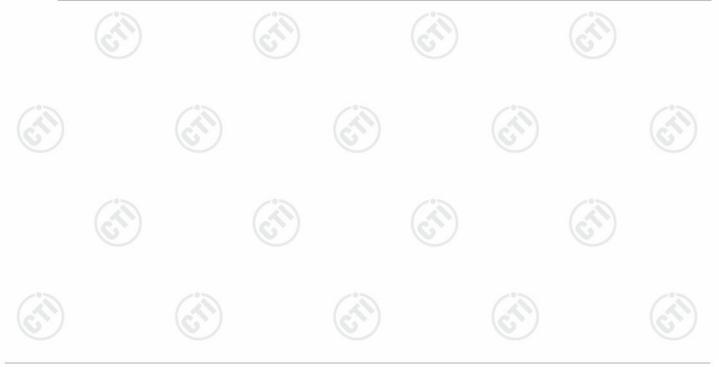








No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	0
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	49.7066	6.22	14.28	20.50	40.00	-19.50	QP	100	4	
2	94.7600	4.71	13.33	18.04	43.50	-25.46	QP	100	149	
3	145.8611	9.19	9.69	18.88	43.50	-24.62	QP	100	149	
4	223.7333	8.68	14.60	23.28	46.00	-22.72	QP	100	249	
5	438.6554	9.28	20.22	29.50	46.00	-16.50	QP	200	109	
6 *	766.0571	8.48	25.83	34.31	46.00	-11.69	QP	200	340	
6 *	766.0571	8.48	25.83	34.31	46.00	-11.69	QP	200	340	





Transmitter Emission above 1GHz

Remark: During the test, the Radiates Emission above 1G was performed in all modes, only the worst case ant1 and ant2 transmit simultaneously was recorded in the report.

MIMO

	IAILIA				100					
2	Mode	:		802.11 n(HT20)) Transmitting		Channe	el:	5180MHz	
4	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1252.4752	0.99	41.28	42.27	68.20	25.93	PASS	Horizontal	PK
	2	2103.4103	5.01	38.51	43.52	68.20	24.68	PASS	Horizontal	PK
	3	3561.0561	7.25	37.93	45.18	68.20	23.02	PASS	Horizontal	PK
	4	7587.3794	-10.62	54.18	43.56	68.20	24.64	PASS	Horizontal	PK
	5	13166.8833	-3.02	50.77	47.75	68.20	20.45	PASS	Horizontal	PK
2	6	15560.1530	0.43	50.23	50.66	68.20	17.54	PASS	Horizontal	PK
2	7	1403.7404	1.45	40.51	41.96	68.20	26.24	PASS	Vertical	PK
_	8	2035.2035	4.77	39.42	44.19	68.20	24.01	PASS	Vertical	PK
	9	3402.0902	7.57	38.29	45.86	68.20	22.34	PASS	Vertical	PK
	10	8918.5709	-9.12	52.50	43.38	68.20	24.82	PASS	Vertical	PK
	11	11275.0388	-6.36	53.40	47.04	68.20	21.16	PASS	Vertical	PK
	12	12419.9210	-4.06	52.46	48.40	68.20	19.80	PASS	Vertical	PK
				\sim						

	Mode	:		802.11 n(HT20)) Transmitting		Channe	el:	5200MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	1326.1826	1.23	40.35	41.58	68.20	26.62	PASS	Horizontal	PK
	2	1953.7954	4.42	39.47	43.89	68.20	24.31	PASS	Horizontal	PK
	3	2794.8295	5.86	38.74	44.60	68.20	23.60	PASS	Horizontal	PK
	4	9200.9100	-7.72	52.77	45.05	68.20	23.15	PASS	Horizontal	PK
	5	13159.4080	-3.03	51.50	48.47	68.20	19.73	PASS	Horizontal	PK
	6	17573.9037	3.07	50.78	53.85	68.20	14.35	PASS	Horizontal	PK
	7	1407.5908	1.45	40.93	42.38	68.20	25.82	PASS	Vertical	PK
-	8	1887.2387	4.09	39.26	43.35	68.20	24.85	PASS	Vertical	PK
	9	2830.5831	6.01	39.06	45.07	68.20	23.13	PASS	Vertical	PK
3	10	8030.7265	-11.31	53.36	42.05	68.20	26.15	PASS	Vertical	PK
	11	9740.8620	-7.41	52.54	45.13	68.20	23.07	PASS	Vertical	PK
	12	12509.6255	-4.31	51.98	47.67	68.20	20.53	PASS	Vertical	PK











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Mode	:	8	02.11 n(HT20)) Transmitting		Channe	el:	5240MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1364.1364	1.34	40.55	41.89	68.20	26.31	PASS	Horizontal	PK
2	2052.2552	4.84	39.59	44.43	68.20	23.77	PASS	Horizontal	PK
3	3051.1551	6.68	39.26	45.94	68.20	22.26	PASS	Horizontal	PK
4	8364.2432	-10.79	54.29	43.50	68.20	24.70	PASS	Horizontal	PK
5	11291.1396	-6.49	53.51	47.02	68.20	21.18	PASS	Horizontal	PK
6	15914.9457	0.08	51.60	51.68	68.20	16.52	PASS	Horizontal	PK
7	1316.8317	1.20	40.50	41.70	68.20	26.50	PASS	Vertical	PK
8	2067.1067	4.91	40.07	44.98	68.20	23.22	PASS	Vertical	PK
9	3053.3553	6.69	39.67	46.36	68.20	21.84	PASS	Vertical	PK
10	7563.8032	-10.80	53.40	42.60	68.20	25.60	PASS	Vertical	PK
11	9696.0098	-7.56	52.57	45.01	68.20	23.19	PASS	Vertical	PK
12	14426.1963	0.26	49.39	49.65	68.20	18.55	PASS	Vertical	PK
	NO 1 2 3 4 5 6 7 8 9 10 11	NO [MHz] 1 1364.1364 2 2052.2552 3 3051.1551 4 8364.2432 5 11291.1396 6 15914.9457 7 1316.8317 8 2067.1067 9 3053.3553 10 7563.8032 11 9696.0098	NO Freq. [MHz] Factor [dB] 1 1364.1364 1.34 2 2052.2552 4.84 3 3051.1551 6.68 4 8364.2432 -10.79 5 11291.1396 -6.49 6 15914.9457 0.08 7 1316.8317 1.20 8 2067.1067 4.91 9 3053.3553 6.69 10 7563.8032 -10.80 11 9696.0098 -7.56	NOFreq. [MHz]Factor [dB]Reading [dBµV]11364.13641.3440.5522052.25524.8439.5933051.15516.6839.2648364.2432-10.7954.29511291.1396-6.4953.51615914.94570.0851.6071316.83171.2040.5082067.10674.9140.0793053.35536.6939.67107563.8032-10.8053.40119696.0098-7.5652.57	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV]11364.13641.3440.5541.8922052.25524.8439.5944.4333051.15516.6839.2645.9448364.2432-10.7954.2943.50511291.1396-6.4953.5147.02615914.94570.0851.6051.6871316.83171.2040.5041.7082067.10674.9140.0744.9893053.35536.6939.6746.36107563.8032-10.8053.4042.60119696.0098-7.5652.5745.01	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]11364.13641.3440.5541.8968.2022052.25524.8439.5944.4368.2033051.15516.6839.2645.9468.2048364.2432-10.7954.2943.5068.20511291.1396-6.4953.5147.0268.20615914.94570.0851.6051.6868.2071316.83171.2040.5041.7068.2082067.10674.9140.0744.9868.2093053.35536.6939.6746.3668.20107563.8032-10.8053.4042.6068.20119696.0098-7.5652.5745.0168.20	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]11364.13641.3440.5541.8968.2026.3122052.25524.8439.5944.4368.2023.7733051.15516.6839.2645.9468.2022.2648364.2432-10.7954.2943.5068.2024.70511291.1396-6.4953.5147.0268.2021.18615914.94570.0851.6051.6868.2026.5071316.83171.2040.5041.7068.2026.5082067.10674.9140.0744.9868.2023.2293053.35536.6939.6746.3668.2021.84107563.8032-10.8053.4042.6068.2025.60119696.0098-7.5652.5745.0168.2023.19	NO Freq. [MHz] Factor [dB] Reading [dBµV] Level [dBµV/m] Limit [dBµV/m] Margin [dB] Result 1 1364.1364 1.34 40.55 41.89 68.20 26.31 PASS 2 2052.2552 4.84 39.59 44.43 68.20 23.77 PASS 3 3051.1551 6.68 39.26 45.94 68.20 22.26 PASS 4 8364.2432 -10.79 54.29 43.50 68.20 21.18 PASS 5 11291.1396 -6.49 53.51 47.02 68.20 21.18 PASS 6 15914.9457 0.08 51.60 51.68 68.20 16.52 PASS 7 1316.8317 1.20 40.50 41.70 68.20 23.22 PASS 8 2067.1067 4.91 40.07 44.98 68.20 23.22 PASS 9 3053.3553 6.69 39.67 46.36 68.20 21.84 PASS	NO Freq. [MHz] Factor [dB] Reading [dBµV] Level [dBµV/m] Limit [dBµV/m] Margin [dB] Result Polarity 1 1364.1364 1.34 40.55 41.89 68.20 26.31 PASS Horizontal 2 2052.2552 4.84 39.59 44.43 68.20 23.77 PASS Horizontal 3 3051.1551 6.68 39.26 45.94 68.20 24.70 PASS Horizontal 4 8364.2432 -10.79 54.29 43.50 68.20 24.70 PASS Horizontal 5 11291.1396 -6.49 53.51 47.02 68.20 21.18 PASS Horizontal 6 15914.9457 0.08 51.60 51.68 68.20 26.50 PASS Horizontal 7 1316.8317 1.20 40.50 41.70 68.20 23.22 PASS Vertical 8 2067.1067 4.91 40.07 44.98 68.20 23.22

	Mode	:		802.11 n(HT20)) Transmitting		Channe	el:	5745MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1392.1892	1.81	41.22	43.03	68.20	25.17	PASS	Horizontal	PK
	2	2550.0550	5.57	39.08	44.65	68.20	23.55	PASS	Horizontal	PK
- 6	3	3809.6810	9.40	37.08	46.48	68.20	21.72	PASS	Horizontal	PK
	4	9703.3469	-7.56	52.96	45.40	68.20	22.80	PASS	Horizontal	PK
2	5	12445.1297	-4.13	52.40	48.27	68.20	19.93	PASS	Horizontal	PK
	6	15978.9319	-0.15	51.66	51.51	68.20	16.69	PASS	Horizontal	PK
	7	1333.8834	1.70	40.76	42.46	68.20	25.74	PASS	Vertical	PK
	8	2106.1606	5.55	38.78	44.33	68.20	23.87	PASS	Vertical	PK
	9	3050.0550	7.39	38.61	46.00	68.20	22.20	PASS	Vertical	PK
	10	8858.4239	-9.20	52.28	43.08	68.20	25.12	PASS	Vertical	PK
	11	10795.9197	-6.18	52.87	46.69	68.20	21.51	PASS	Vertical	PK
-	12	13821.3881	-2.09	50.49	48.40	68.20	19.80	PASS	Vertical	PK













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				1				1	6	
	Mode	:		802.11 n(HT20) Transmitting		Channe	el:	5785MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
20	1	1285.4785	1.56	40.57	42.13	68.20	26.07	PASS	Horizontal	PK
1	2	2025.3025	5.22	40.14	45.36	68.20	22.84	PASS	Horizontal	PK
6	3	3168.3168	7.77	38.63	46.40	68.20	21.80	PASS	Horizontal	PK
	4	8932.0288	-9.00	52.31	43.31	68.20	24.89	PASS	Horizontal	PK
	5	11939.0959	-5.20	53.51	48.31	68.20	19.89	PASS	Horizontal	PK
	6	15479.0319	0.19	51.27	51.46	68.20	16.74	PASS	Horizontal	PK
	7	1319.5820	1.68	40.72	42.40	68.20	25.80	PASS	Vertical	PK
	8	2337.7338	4.70	39.14	43.84	68.20	24.36	PASS	Vertical	PK
	9	3810.2310	9.40	37.10	46.50	68.20	21.70	PASS	Vertical	PK
	10	9711.0141	-7.53	52.61	45.08	68.20	23.12	PASS	Vertical	PK
1	11	11807.9872	-6.14	53.06	46.92	68.20	21.28	PASS	Vertical	PK
3	12	15492.0661	0.37	49.94	50.31	68.20	17.89	PASS	Vertical	PK

	Mode	:		802.11 n(HT20) Transmitting		Channe	el:	5825MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ĺ	1	1334.4334	1.70	40.07	41.77	68.20	26.43	PASS	Horizontal	PK
Ī	2	2424.0924	5.00	39.74	44.74	68.20	23.46	PASS	Horizontal	PK
- 0	3	3807.4807	9.39	37.32	46.71	68.20	21.49	PASS	Horizontal	PK
2	4	9106.0737	-8.60	53.20	44.60	68.20	23.60	PASS	Horizontal	PK
2	5	10914.7610	-6.33	52.79	46.46	68.20	21.74	PASS	Horizontal	PK
Ī	6	14417.8945	0.38	49.87	50.25	68.20	17.95	PASS	Horizontal	PK
	7	1465.8966	1.89	40.00	41.89	68.20	26.31	PASS	Vertical	PK
Ī	8	2102.3102	5.60	40.37	45.97	68.20	22.23	PASS	Vertical	PK
Ī	9	3777.7778	9.13	37.09	46.22	68.20	21.98	PASS	Vertical	PK
Ī	10	7661.5774	-10.94	52.65	41.71	68.20	26.49	PASS	Vertical	PK
Ī	11	9857.4572	-7.07	52.55	45.48	68.20	22.72	PASS	Vertical	PK
-	12	15486.6991	0.29	50.18	50.47	68.20	17.73	PASS	Vertical	PK
			1.5		1.5		1.3		1	











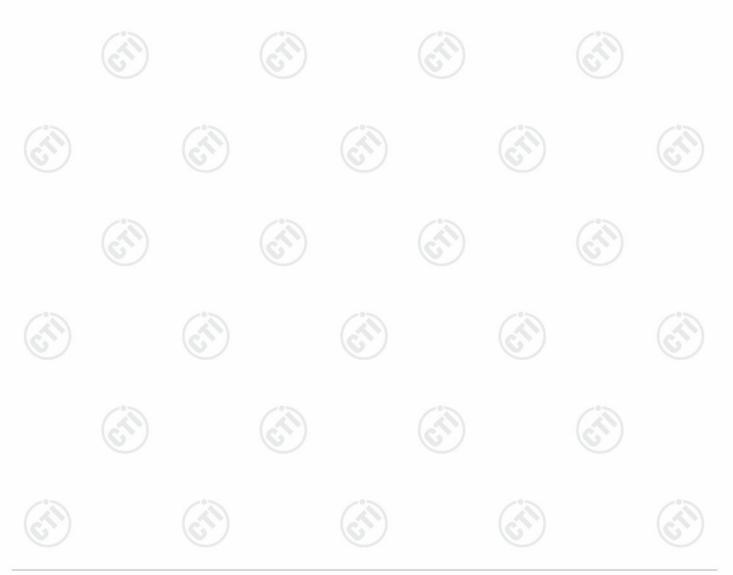






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	Mode	:		802.11 n(HT40)	302.11 n(HT40) Transmitting			el:	5190MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1624.3124	2.59	40.11	42.70	68.20	25.50	PASS	Horizontal	PK
C	2	2682.6183	5.48	39.09	44.57	68.20	23.63	PASS	Horizontal	PK
	3	3502.2002	7.61	37.37	44.98	68.20	23.22	PASS	Horizontal	PK
	4	8817.9409	-9.12	52.28	43.16	68.20	25.04	PASS	Horizontal	PK
	5	11917.9209	-5.33	52.65	47.32	68.20	20.88	PASS	Horizontal	PK
	6	13900.6200	-0.83	50.52	49.69	68.20	18.51	PASS	Horizontal	PK
	7	1411.9912	1.46	40.11	41.57	68.20	26.63	PASS	Vertical	PK
	8	2034.6535	4.77	40.12	44.89	68.20	23.31	PASS	Vertical	PK
	9	2804.1804	5.90	39.10	45.00	68.20	23.20	PASS	Vertical	PK
0	10	10000.2000	-6.96	54.17	47.21	68.20	20.99	PASS	Vertical	PK
é	11	12528.6014	-4.39	52.64	48.25	68.20	19.95	PASS	Vertical	PK
2	12	16522.1761	0.61	51.87	52.48	68.20	15.72	PASS	Vertical	PK







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		1						
e:		802.11 n(HT40)) Transmitting		Channe	el:	5230MHz	
Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1445.5446	1.50	40.25	41.75	68.20	26.45	PASS	Horizontal	PK
2293.1793	4.04	39.34	43.38	68.20	24.82	PASS	Horizontal	PK
3318.4818	7.42	38.08	45.50	68.20	22.70	PASS	Horizontal	PK
7548.8524	-10.91	53.82	42.91	68.20	25.29	PASS	Horizontal	PK
10753.4877	-6.18	52.70	46.52	68.20	21.68	PASS	Horizontal	PK
13890.8445	-0.98	50.22	49.24	68.20	18.96	PASS	Horizontal	PK
1447.1947	1.51	40.56	42.07	68.20	26.13	PASS	Vertical	PK
2306.3806	4.07	39.27	43.34	68.20	24.86	PASS	Vertical	PK
3172.7173	6.93	39.14	46.07	68.20	22.13	PASS	Vertical	PK
8970.8985	-8.66	52.29	43.63	68.20	24.57	PASS	Vertical	PK
11951.8476	-5.12	53.11	47.99	68.20	20.21	PASS	Vertical	PK
13674.0587	-1.71	50.55	48.84	68.20	19.36	PASS	Vertical	PK
	Freq. [MHz] 1445.5446 2293.1793 3318.4818 7548.8524 10753.4877 13890.8445 1447.1947 2306.3806 3172.7173 8970.8985 11951.8476	Freq. [MHz]Factor [dB]1445.54461.502293.17934.043318.48187.427548.8524-10.9110753.4877-6.1813890.8445-0.981447.19471.512306.38064.073172.71736.938970.8985-8.6611951.8476-5.12	Freq. [MHz]Factor [dB]Reading [dBµV]1445.54461.5040.252293.17934.0439.343318.48187.4238.087548.8524-10.9153.8210753.4877-6.1852.7013890.8445-0.9850.221447.19471.5140.562306.38064.0739.273172.71736.9339.148970.8985-8.6652.2911951.8476-5.1253.11	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]1445.54461.5040.2541.752293.17934.0439.3443.383318.48187.4238.0845.507548.8524-10.9153.8242.9110753.4877-6.1852.7046.5213890.8445-0.9850.2249.241447.19471.5140.5642.072306.38064.0739.2743.343172.71736.9339.1446.078970.8985-8.6652.2943.6311951.8476-5.1253.1147.99	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]1445.54461.5040.2541.7568.202293.17934.0439.3443.3868.203318.48187.4238.0845.5068.207548.8524-10.9153.8242.9168.2010753.4877-6.1852.7046.5268.2013890.8445-0.9850.2249.2468.201447.19471.5140.5642.0768.203172.71736.9339.1446.0768.208970.8985-8.6652.2943.6368.2011951.8476-5.1253.1147.9968.20	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]Margin [dB]1445.54461.5040.2541.7568.2026.452293.17934.0439.3443.3868.2024.823318.48187.4238.0845.5068.2022.707548.8524-10.9153.8242.9168.2025.2910753.4877-6.1852.7046.5268.2021.6813890.8445-0.9850.2249.2468.2018.961447.19471.5140.5642.0768.2026.132306.38064.0739.2743.3468.2024.863172.71736.9339.1446.0768.2022.138970.8985-8.6652.2943.6368.2024.5711951.8476-5.1253.1147.9968.2020.21	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]Result1445.54461.5040.2541.7568.2026.45PASS2293.17934.0439.3443.3868.2024.82PASS3318.48187.4238.0845.5068.2022.70PASS7548.8524-10.9153.8242.9168.2025.29PASS10753.4877-6.1852.7046.5268.2021.68PASS13890.8445-0.9850.2249.2468.2018.96PASS1447.19471.5140.5642.0768.2026.13PASS3172.71736.9339.1446.0768.2022.13PASS8970.8985-8.6652.2943.6368.2020.21PASS11951.8476-5.1253.1147.9968.2020.21PASS	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]ResultPolarity1445.54461.5040.2541.7568.2026.45PASSHorizontal2293.17934.0439.3443.3868.2024.82PASSHorizontal3318.48187.4238.0845.5068.2022.70PASSHorizontal7548.8524-10.9153.8242.9168.2025.29PASSHorizontal10753.4877-6.1852.7046.5268.2021.68PASSHorizontal13890.8445-0.9850.2249.2468.2018.96PASSHorizontal1447.19471.5140.5642.0768.2026.13PASSVertical2306.38064.0739.2743.3468.2024.86PASSVertical3172.71736.9339.1446.0768.2022.13PASSVertical8970.8985-8.6652.2943.6368.2020.21PASSVertical11951.8476-5.1253.1147.9968.2020.21PASSVertical

	Mode	:		802.11 n(HT40)) Transmitting		Channe	el:	5755MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ĺ	1	1283.2783	1.55	40.40	41.95	68.20	26.25	PASS	Horizontal	PK
	2	2008.2508	5.13	39.84	44.97	68.20	23.23	PASS	Horizontal	PK
1	3	2713.9714	6.17	39.63	45.80	68.20	22.40	PASS	Horizontal	PK
	4	8452.8302	-10.62	53.62	43.00	68.20	25.20	PASS	Horizontal	PK
4	5	11010.6007	-5.88	52.74	46.86	68.20	21.34	PASS	Horizontal	PK
Ī	6	15492.8329	0.38	50.08	50.46	68.20	17.74	PASS	Horizontal	PK
	7	1452.6953	1.87	40.17	42.04	68.20	26.16	PASS	Vertical	PK
Ī	8	2068.7569	5.46	39.47	44.93	68.20	23.27	PASS	Vertical	PK
Ī	9	3284.9285	8.24	38.41	46.65	68.20	21.55	PASS	Vertical	PK
Ī	10	7585.6724	-10.64	52.78	42.14	68.20	26.06	PASS	Vertical	PK
Ī	11	11839.4226	-5.90	53.44	47.54	68.20	20.66	PASS	Vertical	PK
	12	15048.1365	-0.43	50.81	50.38	68.20	17.82	PASS	Vertical	PK
-	12	15048.1365	-0.43	50.81	50.38	68.20	17.82	PASS	Vertical	













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			(10)				1		
Mode	:		802.11 n(HT40)) Transmitting		Channe	el:	5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1424.0924	1.84	39.98	41.82	68.20	26.38	PASS	Horizontal	PK
2	2333.8834	4.69	39.84	44.53	68.20	23.67	PASS	Horizontal	PK
3	3448.8449	8.26	38.74	47.00	68.20	21.20	PASS	Horizontal	PK
4	8553.2702	-10.55	53.89	43.34	68.20	24.86	PASS	Horizontal	PK
5	12432.8622	-4.10	52.90	48.80	68.20	19.40	PASS	Horizontal	PK
6	14999.8333	-0.96	50.91	49.95	68.20	18.25	PASS	Horizontal	PK
7	1488.9989	1.91	40.21	42.12	68.20	26.08	PASS	Vertical	PK
8	1921.8922	4.80	39.63	44.43	68.20	23.77	PASS	Vertical	PK
9	2940.5941	7.08	38.75	45.83	68.20	22.37	PASS	Vertical	PK
10	9213.4142	-7.70	53.25	45.55	68.20	22.65	PASS	Vertical	PK
11	12435.1623	-4.10	52.03	47.93	68.20	20.27	PASS	Vertical	PK
12	15484.3990	0.26	50.58	50.84	68.20	17.36	PASS	Vertical	PK
	NO 1 2 3 4 5 6 7 8 9 10 11	NO [MHz] 1 1424.0924 2 2333.8834 3 3448.8449 4 8553.2702 5 12432.8622 6 14999.8333 7 1488.9989 8 1921.8922 9 2940.5941 10 9213.4142 11 12435.1623	NO Freq. [MHz] Factor [dB] 1 1424.0924 1.84 2 2333.8834 4.69 3 3448.8449 8.26 4 8553.2702 -10.55 5 12432.8622 -4.10 6 14999.8333 -0.96 7 1488.9989 1.91 8 1921.8922 4.80 9 2940.5941 7.08 10 9213.4142 -7.70 11 12435.1623 -4.10	NOFreq. [MHz]Factor [dB]Reading [dBµV]11424.09241.8439.9822333.88344.6939.8433448.84498.2638.7448553.2702-10.5553.89512432.8622-4.1052.90614999.8333-0.9650.9171488.99891.9140.2181921.89224.8039.6392940.59417.0838.75109213.4142-7.7053.251112435.1623-4.1052.03	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV]11424.09241.8439.9841.8222333.88344.6939.8444.5333448.84498.2638.7447.0048553.2702-10.5553.8943.34512432.8622-4.1052.9048.80614999.8333-0.9650.9149.9571488.99891.9140.2142.1281921.89224.8039.6344.4392940.59417.0838.7545.83109213.4142-7.7053.2545.551112435.1623-4.1052.0347.93	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]11424.09241.8439.9841.8268.2022333.88344.6939.8444.5368.2033448.84498.2638.7447.0068.2048553.2702-10.5553.8943.3468.20512432.8622-4.1052.9048.8068.20614999.8333-0.9650.9149.9568.2071488.99891.9140.2142.1268.2081921.89224.8039.6344.4368.2092940.59417.0838.7545.8368.20109213.4142-7.7053.2545.5568.201112435.1623-4.1052.0347.9368.20	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]11424.09241.8439.9841.8268.2026.3822333.88344.6939.8444.5368.2023.6733448.84498.2638.7447.0068.2021.2048553.2702-10.5553.8943.3468.2024.86512432.8622-4.1052.9048.8068.2019.40614999.8333-0.9650.9149.9568.2018.2571488.99891.9140.2142.1268.2026.0881921.89224.8039.6344.4368.2023.7792940.59417.0838.7545.8368.2022.37109213.4142-7.7053.2545.5568.2022.651112435.1623-4.1052.0347.9368.2020.27	NOFreq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]Result11424.09241.8439.9841.8268.2026.38PASS22333.88344.6939.8444.5368.2023.67PASS33448.84498.2638.7447.0068.2021.20PASS48553.2702-10.5553.8943.3468.2024.86PASS512432.8622-4.1052.9048.8068.2019.40PASS614999.8333-0.9650.9149.9568.2018.25PASS71488.98891.9140.2142.1268.2026.08PASS81921.89224.8039.6344.4368.2023.77PASS92940.59417.0838.7545.8368.2022.37PASS109213.4142-7.7053.2545.5568.2020.27PASS1112435.1623-4.1052.0347.9368.2020.27PASS	NO Freq. [MHz] Factor [dB] Reading [dBµV] Level [dBµV/m] Limit [dBµV/m] Margin [dB] Result Polarity 1 1424.0924 1.84 39.98 41.82 68.20 26.38 PASS Horizontal 2 2333.8344 4.69 39.84 44.53 68.20 23.67 PASS Horizontal 3 3448.8449 8.26 38.74 47.00 68.20 21.20 PASS Horizontal 4 8553.2702 -10.55 53.89 43.34 68.20 24.86 PASS Horizontal 5 12432.8622 -4.10 52.90 48.80 68.20 19.40 PASS Horizontal 6 14999.8333 -0.96 50.91 49.95 68.20 18.25 PASS Horizontal 7 1488.9989 1.91 40.21 42.12 68.20 23.77 PASS Vertical 9 2940.5941 7.08 38.75 45.83 68.20 22.37 </td

	Mode	:		802.11 ac(VHT	02.11 ac(VHT80) Transmitting			el:	5210MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1280.5281	1.09	41.05	42.14	68.20	26.06	PASS	Horizontal	PK
à	2	1929.0429	4.31	40.52	44.83	68.20	23.37	PASS	Horizontal	PK
4	3	2794.2794	5.86	39.72	45.58	68.20	22.62	PASS	Horizontal	PK
2	4	8485.5743	-10.60	54.11	43.51	68.20	24.69	PASS	Horizontal	PK
	5	10418.2459	-6.31	52.50	46.19	68.20	22.01	PASS	Horizontal	PK
	6	13719.4860	-1.87	50.82	48.95	68.20	19.25	PASS	Horizontal	PK
	7	1271.7272	1.06	40.93	41.99	68.20	26.21	PASS	Vertical	PK
	8	2066.5567	4.91	39.07	43.98	68.20	24.22	PASS	Vertical	PK
	9	2924.0924	6.36	39.09	45.45	68.20	22.75	PASS	Vertical	PK
	10	7338.9669	-11.31	53.25	41.94	68.20	26.26	PASS	Vertical	PK
	11	10773.0387	-6.18	52.71	46.53	68.20	21.67	PASS	Vertical	PK
1	12	12222.1111	-5.06	52.38	47.32	68.20	20.88	PASS	Vertical	PK
			6		(2)		(2)			6

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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7.9 Radiated Emission which fall in the restricted bands

	Test Requirement:	47 CFR Part 15C Sect	tion 15.	209 and 1	5.407 (b)			
13	Test Method:	ANSI C63.10 2013	2		12	2		1
6	Test Site:	Measurement Distance	$(G^{(n)})$					
	Receiver Setup:	Frequency	_	Detector	RB	W	VBW	Remark
		0.009MHz-0.090MH	Ηz	Peak	10k	Hz	30kHz	Peak
		0.009MHz-0.090MH	Ηz	Average	10k	Hz	30kHz	Average
		0.090MHz-0.110MH	Ηz	Quasi-pea	k 10k	Hz	30kHz	Quasi-peak
		0.110MHz-0.490MH	Ηz	Peak	10k	Hz	30kHz	Peak
		0.110MHz-0.490MH	Ηz	Average	10k	Hz	30kHz	Average
10-		0.490MHz -30MHz	z	Quasi-pea	k 10k	Ηz	30kHz	Quasi-peak
		30MHz-1GHz		Quasi-pea	k 100 k	κHz	300kHz	Quasi-peak
(C)				Peak	1M	Ηz	3MHz	Peak
		Above 1GHz		Peak	1MI	Ηz	10kHz	Average
	Limit:	Frequency		strength /olt/meter)	Limit (dBuV/m	R	emark	Measurement distance (m)
		0.009MHz-0.490MHz	2400)/F(kHz)	-		-	300
		0.490MHz-1.705MHz	2400	0/F(kHz)	-		-	30
100		1.705MHz-30MHz		30			-	30
		30MHz-88MHz	(\cdot)	100	40.0	Qu	asi-peak	3
C I		88MHz-216MHz		150	43.5	Qu	asi-peak	3
		216MHz-960MHz		200	46.0	Qua	asi-peak	3
		960MHz-1GHz		500	54.0	Qua	asi-peak	3
		Above 1GHz		500	54.0	A	verage	3
(K)		 *(1) For transmitters outside of the 5.15-5 dBm/MHz. (2) For transmitters op of the 5.15-5.35 GHz b (3) For transmitters of outside of the 5.47-5 dBm/MHz. (4) For transmitters op (i) All emissions shall be above or below the base 	5.35 G berating band sh operating 5.725 (berating be limit and edg	Hz band in the 5.2 nall not exc ng in the GHz band in the 5.7 ed to a lev ge increas	shall no 5-5.35 GH ceed an e 5.47-5.72 shall no 25-5.85 G vel of −27 ing linear	t exo Iz ba i.r.p. 25 G ot ex Hz b dBm ly to	ceed an nd: All em of -27 dE Hz band: ceed an and: /MHz at 7 10 dBm/N	e.i.r.p. of -27 hissions outside Bm/MHz. All emissions e.i.r.p. of -27 5 MHz or more MHz at 25 MHz
(A		edge increasing linear the band edge, and f linearly to a level of 27 Remark: The emissic measurements emplo frequency bands 9-9	fly to a from 5 dBm/N on lim oying a	level of 15 MHz abov MHz at the its shown a CISPR	5.6 dBm/N ve or belo band edg in the quasi-pe	IHz a ow th je. abov ak c	at 5 MHz a ne band e ve table detector e	above or below edge increasing are based on except for the

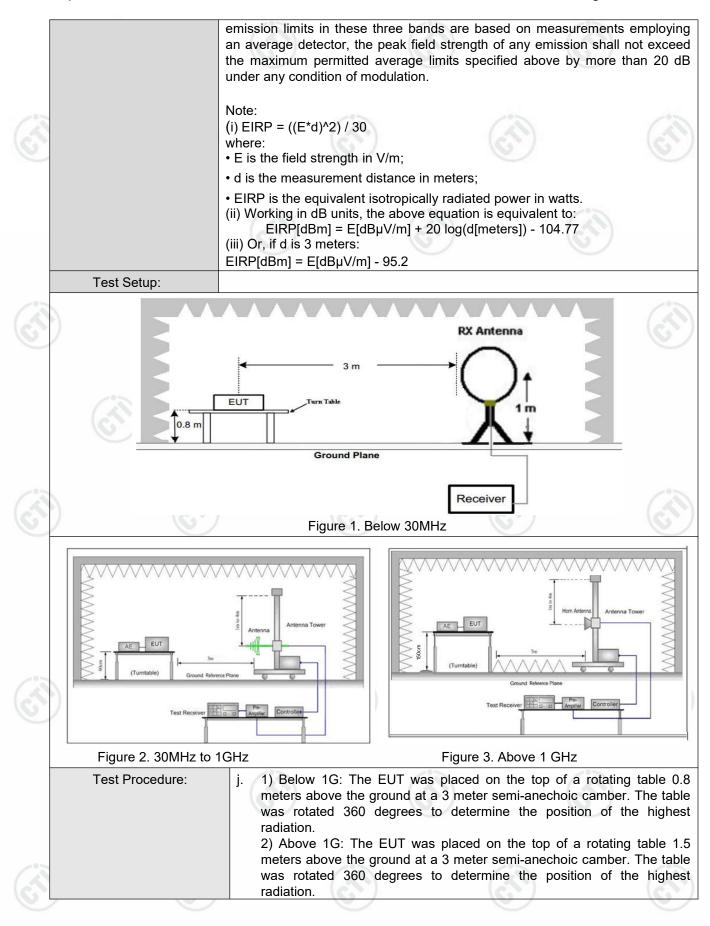






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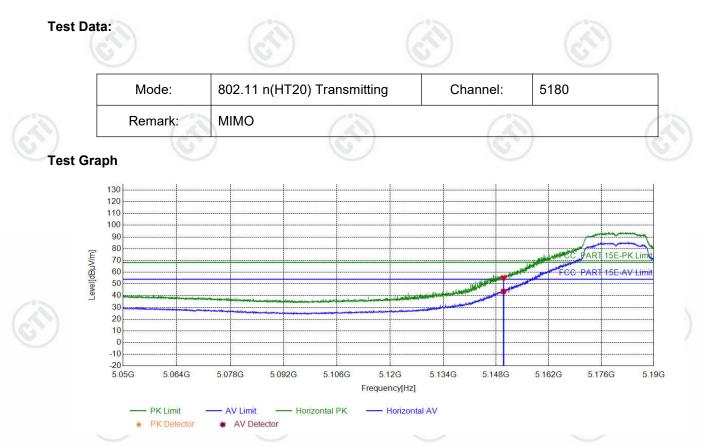
Test Results:	Pass
Test Mode:	Transmitting mode with modulation
	 p. Test the EUT in the lowest channel, the Highest channel q. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. r. Repeat above procedures until all frequencies measured was complete.
<u> </u>	 o. 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.
	 m. 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. n. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
S	 tower. I. 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.
	 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. k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna







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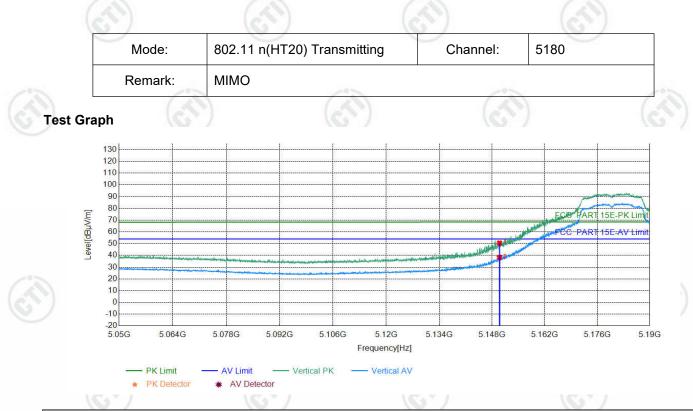


	Suspe	ected List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
C	1	5150.0000	-15.08	70.38	55.30	68.44	13.14	PASS	Horizontal	PK
	2	5150.0000	-15.08	58.74	43.66	54.00	10.34	PASS	Horizontal	AV





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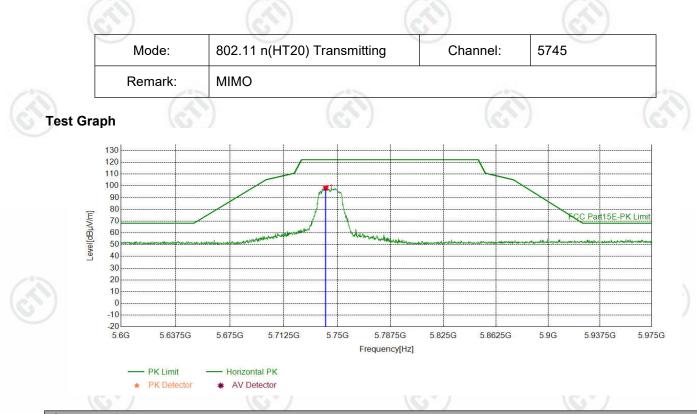


	Susp	ected List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
$\left(\sum_{i=1}^{n} \right)$	1	5150.0000	-15.08	65.61	50.53	68.44	17.91	PASS	Vertical	PK
S.	2	5150.0000	-15.08	53.32	38.24	54.00	15.76	PASS	Vertical	AV

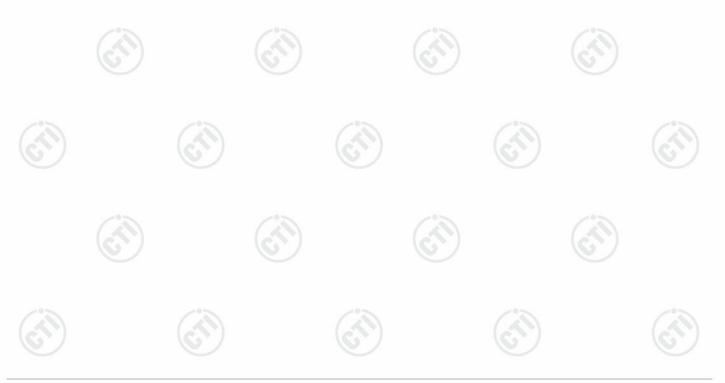




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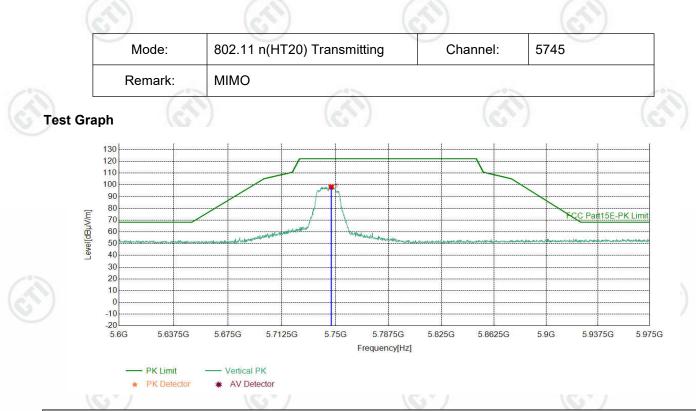


	Suspe	cted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\sim)	1	5741.8209	13.84	84.32	98.16	122.20	24.04	PASS	Horizontal	PK
	1									

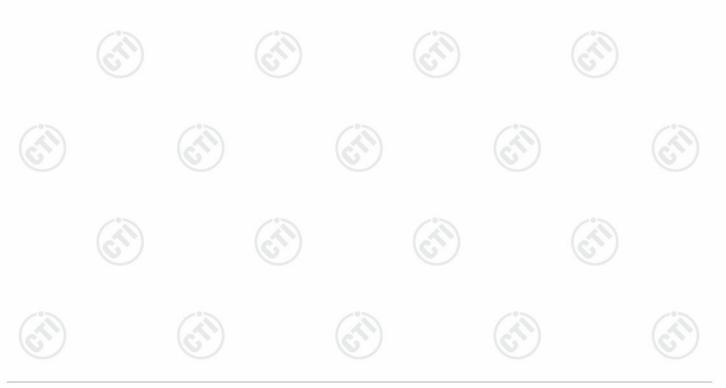




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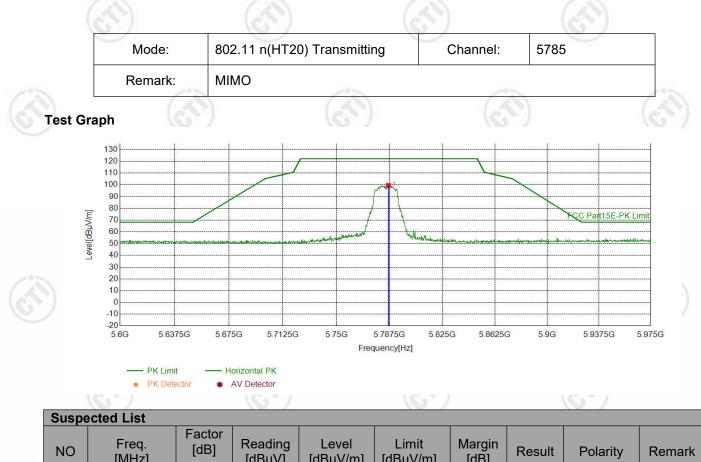


	Suspe	ected List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\sim)	1	5747.0735	13.85	84.41	98.26	122.20	23.94	PASS	Vertical	PK
	100									

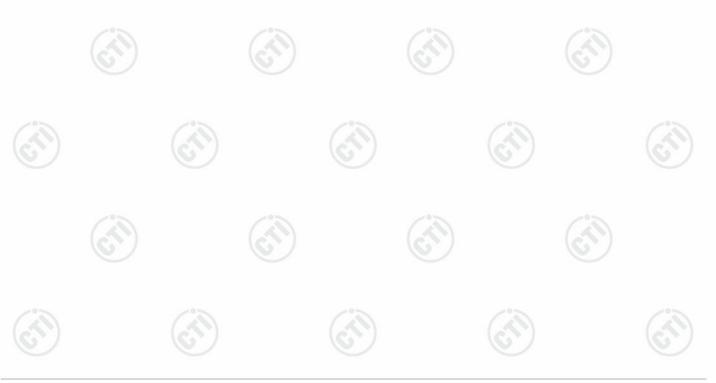




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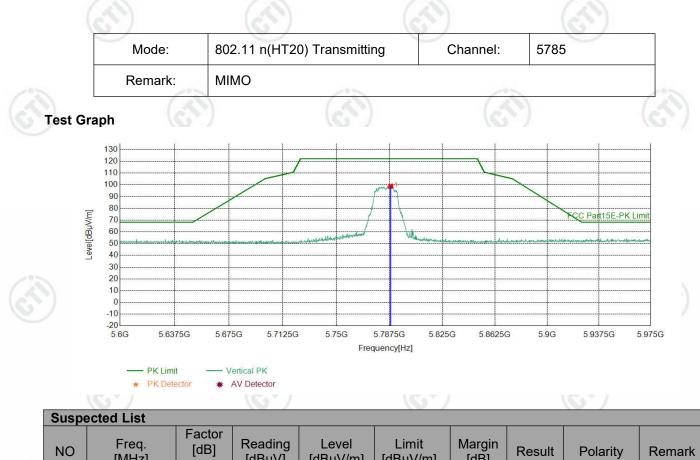


13	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
(c)	1	5786.6558	13.92	85.63	99.55	122.20	22.65	PASS	Horizontal	PK

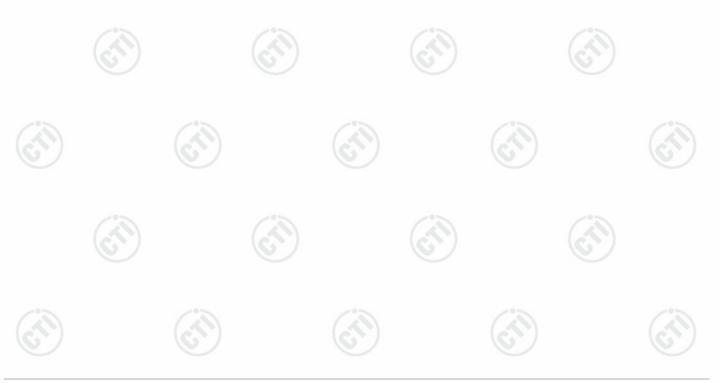




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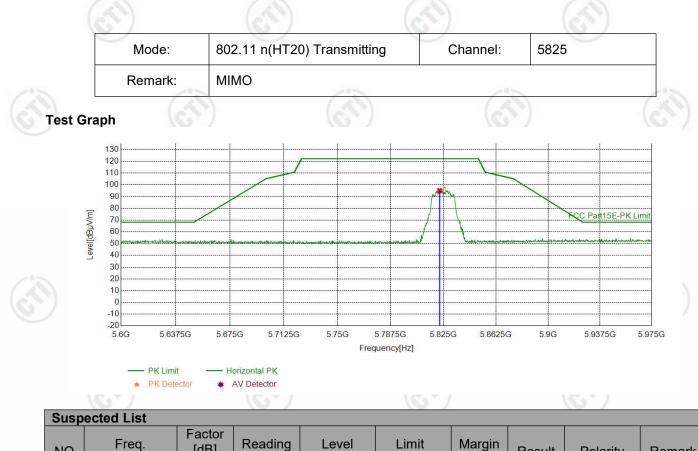


13	NO	[MHz]	[aB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
(2)	1	5788.3442	13.92	84.99	98.91	122.20	23.29	PASS	Vertical	PK

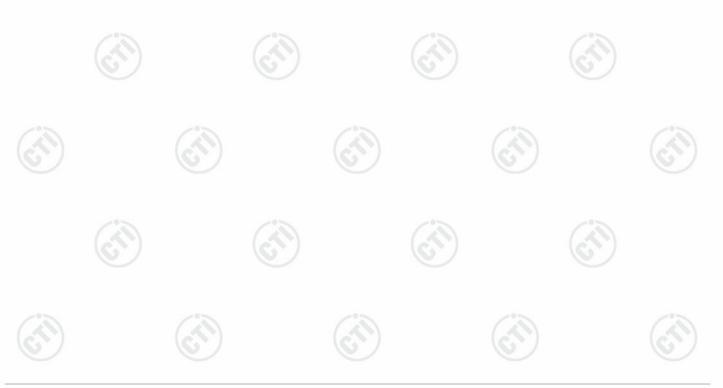




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13	NO	Freq. [MHz]	[dB]	Reading [dBµV]	Levei [dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark	
(c)	1	5822.2986	14.02	81.11	95.13	122.20	27.07	PASS	Horizontal	PK	





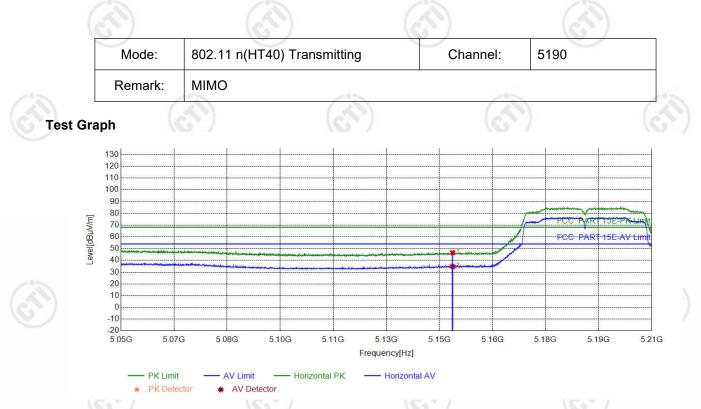
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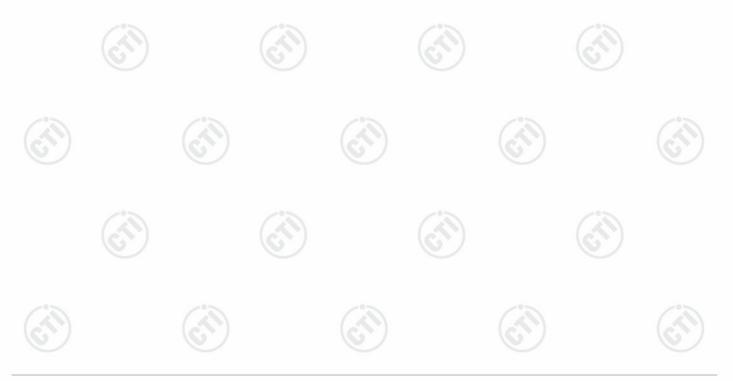




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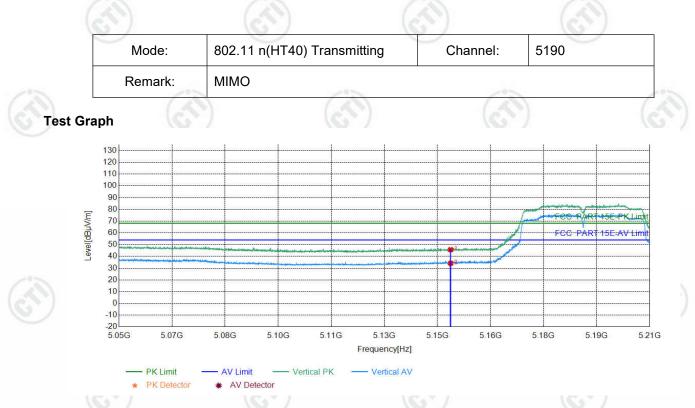


	Suspe	cted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(c)	1	5150.0000	12.36	34.23	46.59	68.20	21.61	PASS	Horizontal	PK
C	2	5150.0000	12.36	22.44	34.80	54.00	19.20	PASS	Horizontal	AV





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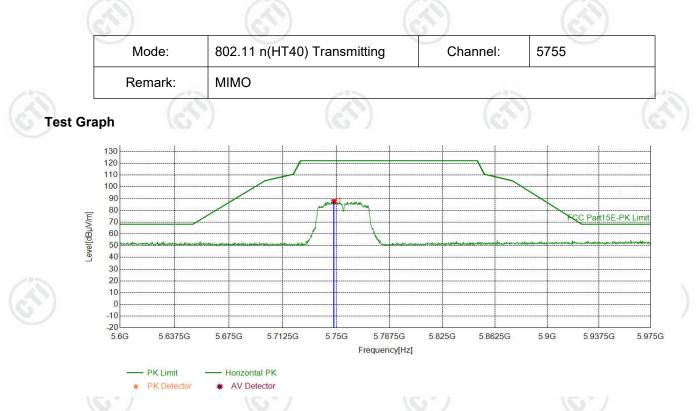


	Susp	ected List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
2	1	5150.0000	12.36	33.39	45.75	68.20	22.45	PASS	Vertical	PK
C	2	5150.0000	12.36	21.81	34.17	54.00	19.83	PASS	Vertical	AV

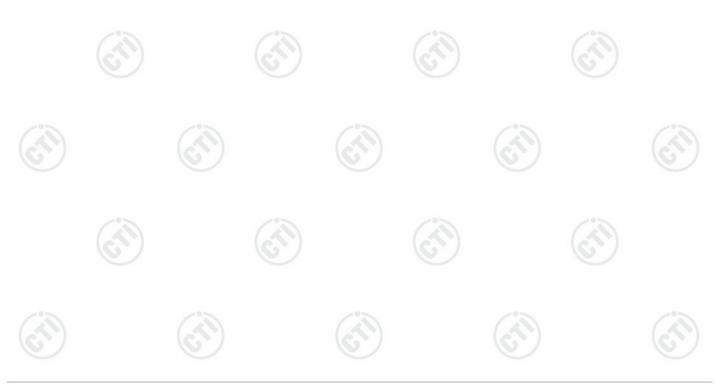




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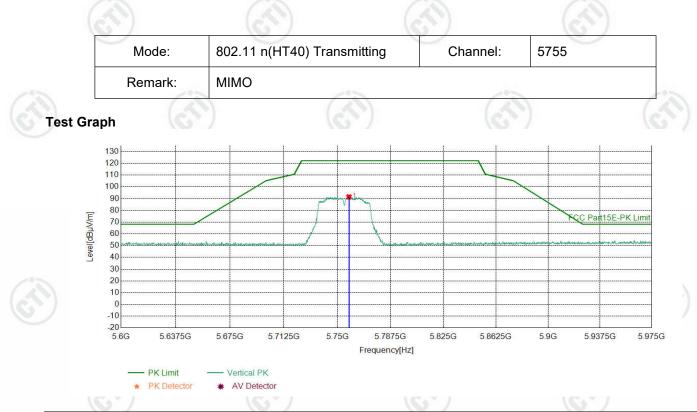


	Suspe	cted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
6	1	5748.3867	13.85	73.79	87.64	122.20	34.56	PASS	Horizontal	PK
· · · ·	1									

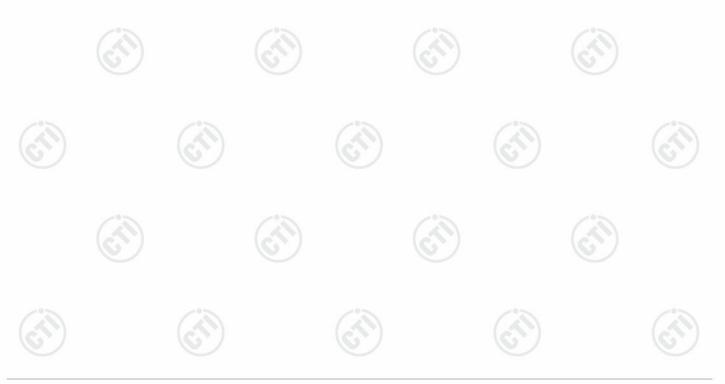




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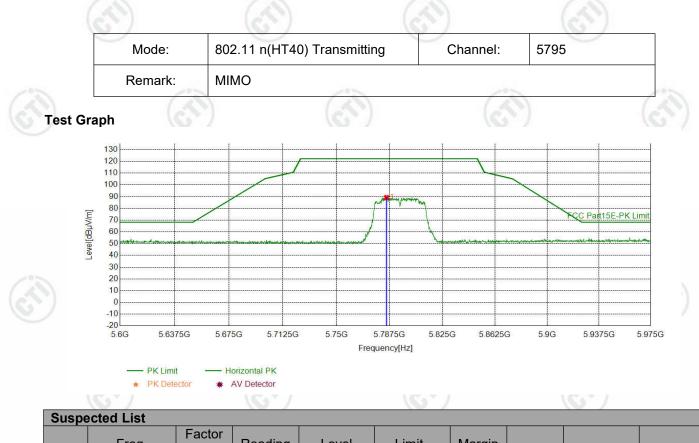


	Suspe	cted List								
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	5758.1416	13.87	77.65	91.52	122.20	30.68	PASS	Vertical	PK
	1									

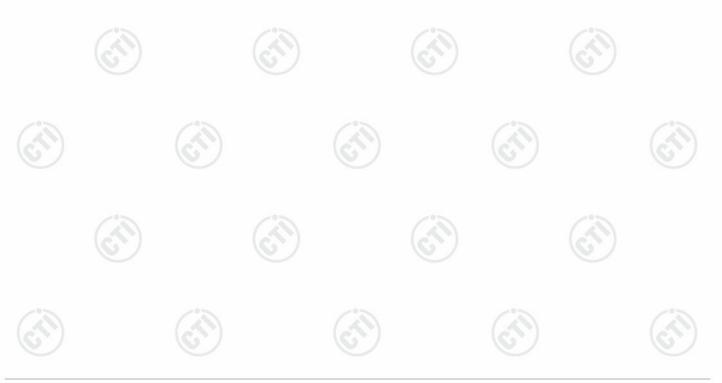




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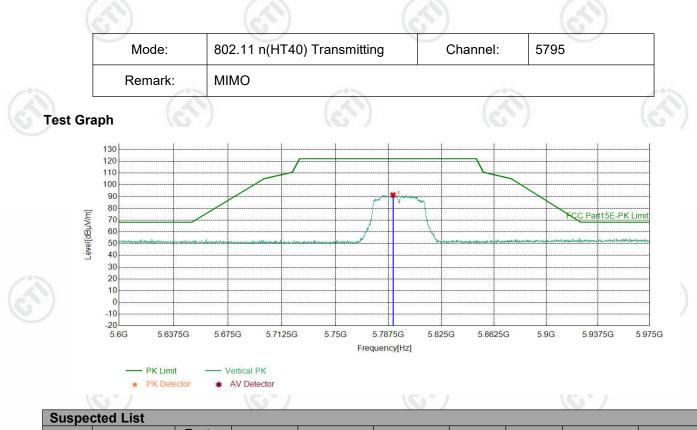


13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	5785.3427	13.92	75.33	89.25	122.20	32.95	PASS	Horizontal	PK
	/			•						

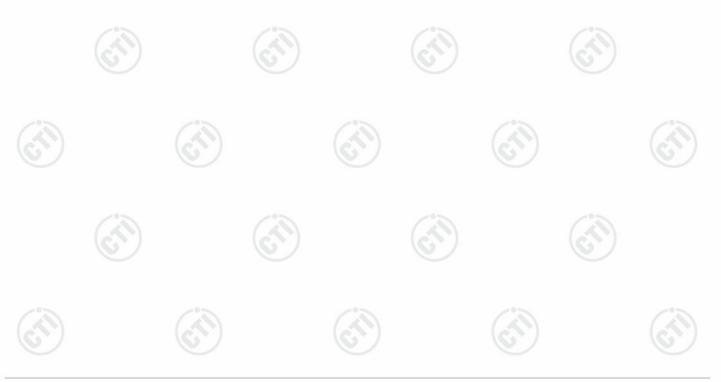




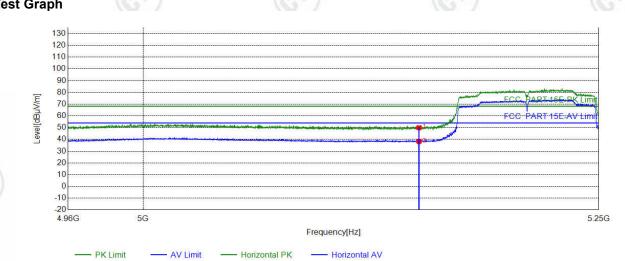
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13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(\mathcal{A})	1	5790.5953	13.92	77.48	91.40	122.20	30.80	PASS	Vertical	PK
	/			•					•	



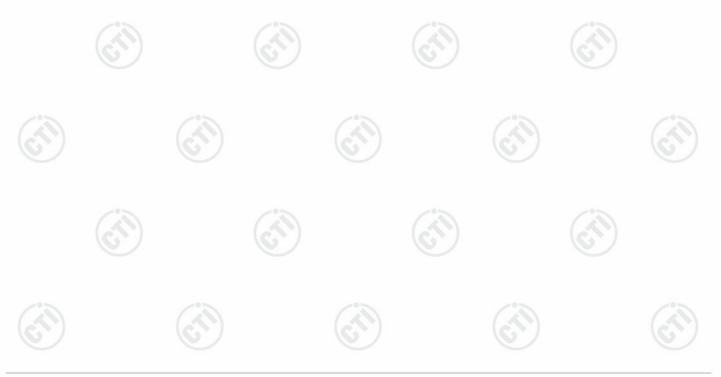




	Suspected List										
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
(\mathcal{A})	1	5150.0000	12.36	37.61	49.97	68.20	18.23	PASS	Horizontal	PK	
S.	2	5150.0000	12.36	25.91	38.27	54.00	15.73	PASS	Horizontal	AV	

PK Detector

* AV Detector





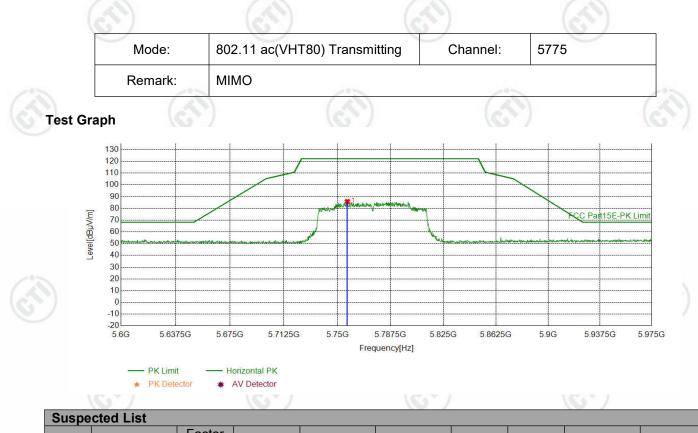
			Frequency[HZ]
PK Limit	AV Limit	Vertical PK	Vertical AV
 DIC Detector 	W AM Deter	1 m m	

	Suspected List										
13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
(\sim)	1	5150.0000	12.36	36.57	48.93	68.20	19.27	PASS	Vertical	PK	
e.	2	5150.0000	12.36	25.62	37.98	54.00	16.02	PASS	Vertical	AV	

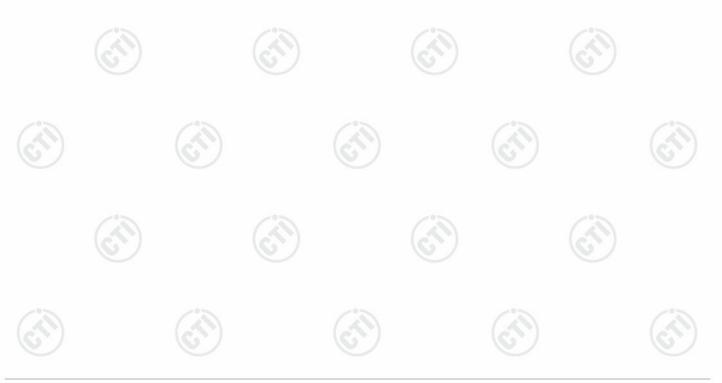




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13	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
(a)	1	5757.0160	13.87	71.95	85.82	122.20	36.38	PASS	Horizontal	PK
	1			•						





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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.



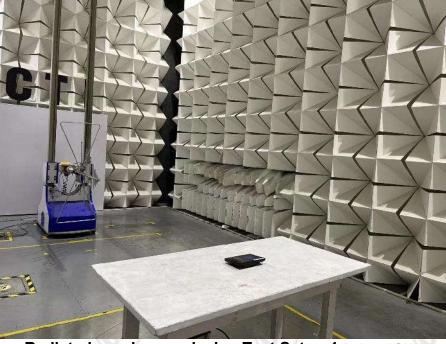
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



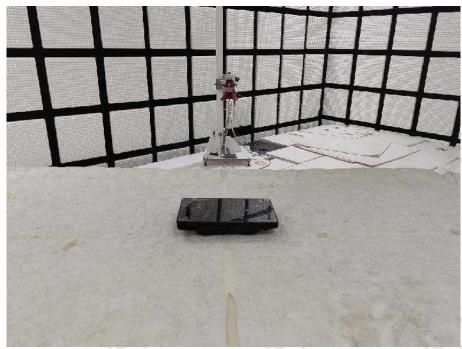


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Radiated spurious emission Test Setup-1(Below 1GHz)



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









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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32O81098201 for EUT external and internal photos.

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