

Report No.: EED32N80832102





**Product** Intelligent Automotive Detection Tool

Trade mark omart Safe

Model/Type reference iSmartIMMO 801,iSmartLink 801

**Serial Number** N/A

EED32N80832102 **Report Number** FCC ID **2AYANISMARTLINK** 

Date of Issue : Oct. 25, 2021

**Test Standards** 47 CFR Part 15 Subpart C

**Test result PASS** 

Prepared for:

SHENZHEN SMARTSAFE TECH CO., LTD. 3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New 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



Firazer. Li Frazer Li David Wany David Wang Reviewed by:

Date:

Acron Ma

Aaron Ma

Oct. 25, 2021

Check No.:2230060921









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## 2 Version

Version No.	Date	Description	
00	Oct. 25, 2021	Original	
	(2)		





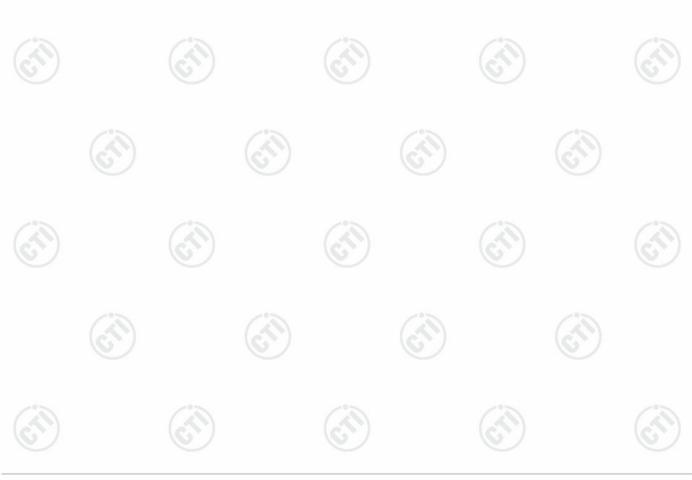
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## 3 Test Summary

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Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

#### Remark:

Only the model iSmartIMMO 801 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name.



<sup>1.</sup>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.

<sup>2.</sup>Model No.: iSmartIMMO 801,iSmartLink 801



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## 4 General Information

## 4.1 Client Information

Applicant:	SHENZHEN SMARTSAFE TECH CO., LTD.	
Address of Applicant:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China	
Manufacturer:	SHENZHEN SMARTSAFE TECH CO., LTD.	
Address of Manufacturer:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China	
Factory:	SHENZHEN SMARTSAFE TECH CO., LTD.	
Address of Factory:	3F, Building B, Qiao'an Technology Industrial Park, Guanlan, Longhua New District, Shenzhen, China	

## 4.2 General Description of EUT

Product Name:	Intelligent Automotiv	ve Detection Tool				
Model No.:	iSmartlMMO 801					
Trade mark:	Smart S	afe 🕥 💮				
Product Type:	☐ Mobile ☐ Po	rtable				
Operation Frequency:	IEEE 802.11b/g/n(F	IT20 and HT40): 2412MHz to 2462MHz				
Modulation Type:	IEEE for 802.11g :C	DSSS(CCK,DQPSK,DBPSK) DFDM(64QAM, 16QAM, QPSK, BPSK) T20 and HT40) : OFDM (64QAM, K)				
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels					
Channel Separation:	5MHz	5MHz				
Antenna Type:	Internal antenna					
Antenna Gain:	2.79dBi					
Power Supply:	AC Adapter	Model:C1902XZ/C1902XA/C1902XJ Input:100-240V~50/60Hz 0.5A Output:PD:5.0V,3.0A/9.0V,2.22A/12.0V,1.67A MAX:20.0W				
(cfl)	Rechargeable lithium ion battery	Model:KPL3878100-2S1P DC 7.6V,4500mAh,34.2Wh				
Test Voltage:	Rechargeable lithiu	m ion battery DC 7.6V				
Sample Received Date:	Sep. 06, 2021					
Sample tested Date:	Sep. 06, 2021 to Oc	ot. 25, 2021				













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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	)	
Operation	Frequency ea	ch of chann	el (802.11n HT	40)			
Channe	I Frequ	ency	Channel	Frequenc	cy Cha	nnel	Frequency
3	2422	MHz	6	2437MH	z s		2452MHz
4	2427	MHz	7	2442MH	z		
5	2432	MHz	8	2447MH	7		

#### 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:

### 802.11b/g/n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The highest channel	2462MHz

### 802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The highest channel	2452MHz



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## 4.3 Test Configuration

<b>EUT Test Software Setti</b>	ngs:		
Software:	RF test		
EUT Power Grade:	Default		
Use test software to set th	e lowest frequency, the middle frequency an	d the highest frequer	ncy keen

Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

#### **Test Mode:**

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

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

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	6.5Mbps
802.11n(HT40)	13.5Mbps

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 6.5Mbps for 802.11n(HT40).

## 4.4 Test Environment

	Operating Environment	:						
	Radiated Spurious Emissions:							
	Temperature:	22~25.0 °C						
	Humidity:	50~55 % RH	(3)				(3)	
	Atmospheric Pressure:	1010mbar	(0)		(6,1)		(0,)	
	Conducted Emissions:							
	Temperature:	22~25.0 °C						
	Humidity:	50~55 % RH		/°>		/°N		
	Atmospheric Pressure:	1010mbar		(6/17)		(6.77)		
	RF Conducted:							
	Temperature:	22~25.0 °C						
	Humidity:	50~55 % RH						
	Atmospheric Pressure:	1010mbar			(41)		(41)	
4 /	10.0	•	10.0		10.4		10.0	



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## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1	sociated ment name	Manufacture	model	S/N serial number	Supplied by	Certification
AE	N/A	/	/	1	1	1

### 4.6 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

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 <sup>-8</sup>
2	DE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-18GHz)
4/1		3.3dB (9kHz-30MHz)
	Dadiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
		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%





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## 5 Equipment List

RF test system									
Equipment Manufacturer Mode No. Serial Cal. Date Cal. Due dat Number (mm-dd-yyyy)									
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-28-2020	12-27-2021				
Signal Generator	Keysight	N5181A	MY46240094	12-28-2020	12-27-2021				
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021				
Signal Generator	Keysight	E8257D	MY53401106	12-28-2020	12-27-2021				
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022				
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	(c4)	(c	(1)				
High-pass filter	MICRO- TRONICS	SPA-F-63029-4							
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021				
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021				
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021				
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3			6				

	3M Semi/full-anechoic Chamber							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)			
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022			
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022			
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024			
Receiver	R&S	ESCI7	100938-003	10-16-2020 10-15-2021	10-15-2021 10-14-2022			
Multi device Controller	maturo	NCD/070/10711 112	(c <u>i</u> )	(6	<u></u>			
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022			
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2022			
Cable line	Fulai(7M)	SF106	5219/6A	(C) 7	(6)			
Cable line	Fulai(6M)	SF106	5220/6A					
Cable line	Fulai(3M)	SF106	5216/6A					
Cable line	Fulai(3M)	SF106	5217/6A					













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		3M full-anecho			
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	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
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
Communication Antenna	Schwarzbeck	CLSA 0110L	1014		
Horn Antenna	ETS- LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980596	05-20-2021	05-19-2022
Communication test set	R&S	CMW500	102898	12-31-2020	12-30-2021
Preamplifier	EMCI	EMC001330	980563	04-21-2021	04-20-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Filter bank	JS Tonscend	JS0806-F	188060094	04-09-2021	04-08-2024
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		-
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002	(6	<u> </u>
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003		
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	COT	(2
Cable line	Times	EMC104-NMNM- 1000	SN160710		
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001	(6	<u>,(1)</u>
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		- /-

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	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
	Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022
1	Temperature/ Humidity Indicator	Defu	TH128	1	(i)	(3)
/	LISN	R&S	ENV216	100098	03-04-2021	03-03-2022
	Barometer	changchun	DYM3	1188		
	(FI)					

**Conducted disturbance Test** 



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## 6 Test results and Measurement Data

## 6.1 Antenna Requirement

**Standard requirement:** 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

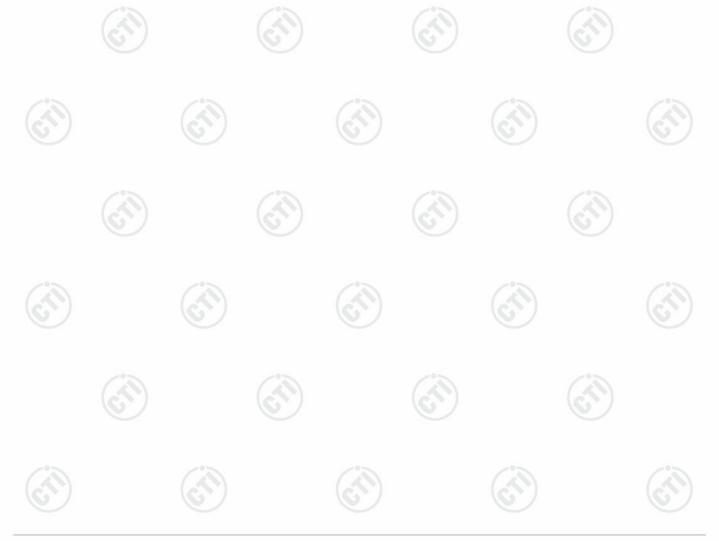
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**EUT Antenna:** Please see Internal photos

The antenna is Internal antenna. The best case gain of the antenna is 2.79dBi.





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## **6.2 AC Power Line Conducted Emissions**

- / 2 3 1	45 055 D 4 450 O # 45 0	4	(25)					
Test Requirement:								
Test Method:	ANSI C63.10: 2013							
Test Frequency Range:	150kHz to 30MHz							
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto							
Limit:	Frequency range (MHz)	Limit (dl						
\$	requestly range (iiii i_)	Quasi-peak	Average					
9	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	* Decreases with the logarithm	of the frequency.	at the face					
Test Setup:	Shielding Room  EUT  AC Mains  LISN1	LISN2 AC Main	Test Receiver					
Test Procedure:	<ol> <li>The mains terminal disturbation.</li> <li>The EUT was connected to Impedance Stabilization New impedance. The power of connected to a second LISM plane in the same way as multiple socket outlet strip was ingle LISM provided the rate.</li> <li>The tabletop EUT was placed on the horizontal ground reference plane. An placed on the horizontal ground reference with the EUT shall be 0.4 m fivertical ground reference reference plane. The LISM unit under test and bond mounted on top of the ground the closest points of the LI and associated equipment with the closest points of the LI and all of the interface cable ANSI C63.10: 2013 on condensation.</li> </ol>	to AC power source atwork) which provides ables of all other to 2, which was bonded to the LISN 1 for the was used to connect must be dupon a non-metal difference plane. In a vertical ground reference plane was placed to a ground reference plane. It was placed 0.8 miled to a ground reference plane. The SN 1 and the EUT. A was at least 0.8 m from miles on, the relatives must be changed a	through a LISN 1 (Lin a 50Ω/50μH + 5Ω linear units of the EUT wered to the ground reference unit being measured. In a subject to the context of the EUT was a subject to the context of the EUT was a subject to the horizontal ground from the boundary of the context of the context of the EUT was a subject to the horizontal ground from the boundary of the context of the EUT was a subject to the LISN 2. The positions of equipmer the subject to the EUT was a subject to th					
Test Mode:	All modes were tested, only the	worst case was recor	ded in the report.					
Test Voltage:	AC 120V/60Hz							
Test Results:	Pass	_0_	_0>					

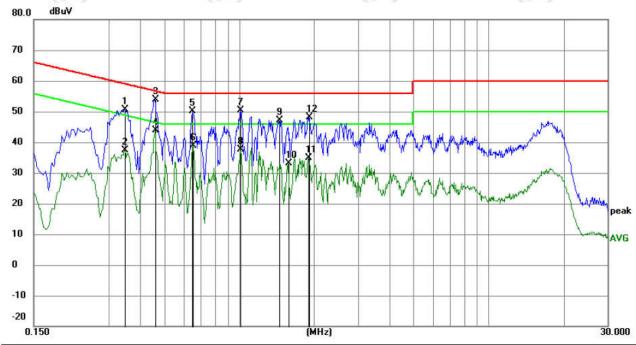
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#### **Measurement Data**

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3480	40.70	10.02	50.72	59.01	-8.29	peak	
2		0.3480	27.36	10.02	37.38	49.01	-11.63	AVG	
3	*	0.4605	43.91	9.96	53.87	56.68	-2.81	peak	
4		0.4605	33.86	9.96	43.82	46.68	-2.86	AVG	
5		0.6495	40.09	9.98	50.07	56.00	-5.93	peak	
6		0.6540	28.88	9.97	38.85	46.00	-7.15	AVG	
7		1.0140	40.64	9.83	50.47	56.00	-5.53	peak	
8		1.0140	27.81	9.83	37.64	46.00	-8.36	AVG	
9		1.4460	37.30	9.81	47.11	56.00	-8.89	peak	
10		1.5765	23.42	9.81	33.23	46.00	-12.77	AVG	
11		1.8960	25.03	9.79	34.82	46.00	-11.18	AVG	
12		1.9005	38.41	9.79	48.20	56.00	-7.80	peak	

### 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.





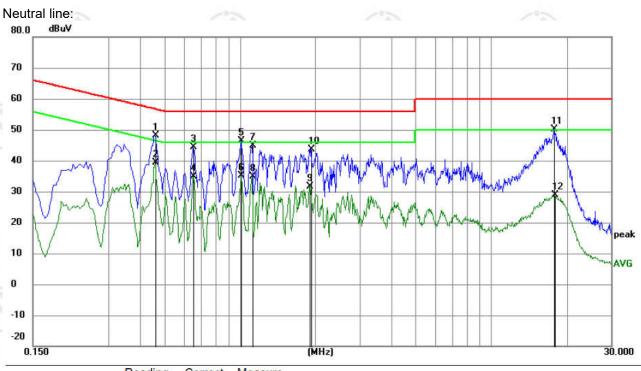












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4605	38.15	9.96	48.11	56.68	-8.57	peak	
2	*	0.4605	29.39	9.96	39.35	46.68	-7.33	AVG	
3		0.6540	34.45	9.97	44.42	56.00	-11.58	peak	
4		0.6540	25.02	9.97	34.99	46.00	-11.01	AVG	
5		1.0140	36.61	9.83	46.44	56.00	-9.56	peak	
6		1.0140	25.38	9.83	35.21	46.00	-10.79	AVG	
7		1.1174	34.99	9.83	44.82	56.00	-11.18	peak	
8		1.1174	24.96	9.83	34.79	46.00	-11.21	AVG	
9		1.8960	21.75	9.79	31.54	46.00	-14.46	AVG	
10		1.9230	33.93	9.79	43.72	56.00	-12.28	peak	
11		17.8440	40.11	9.95	50.06	60.00	-9.94	peak	
12		17.9295	18.98	9.95	28.93	50.00	-21.07	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.









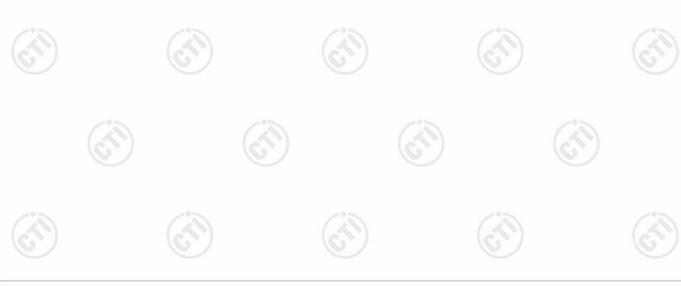




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## **6.3 Maximum Conducted Output Power**

40.						
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10 2013					
Test Setup:	Control Computer Power Supply Attenuator TEMPERATURE CABNET Table  RF test System System Instrument					
Test Procedure:	1. PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.  2. Method AVGPM-G Average power measurement Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.					
Limit:	30dBm					
Test Mode:	Refer to clause 5.3  Refer to Appendix A					
Test Results:						

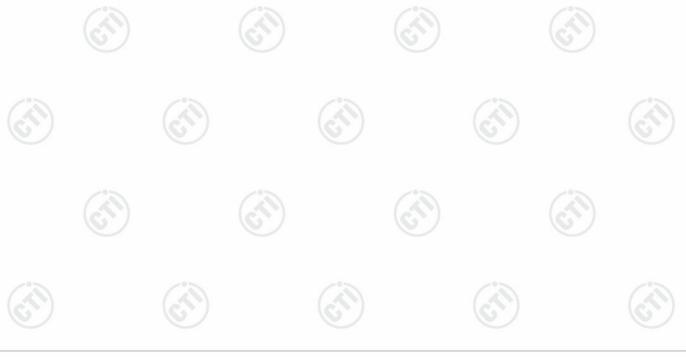




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## 6.4 DTS Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
	Test Method:	ANSI C63.10 2013						
	Test Setup:	Control Contro						
-	T of Donat has	Remark: Offset=Cable loss+ attenuation factor.						
	Test Procedure:	<ul> <li>a) Set RBW = 100 kHz.</li> <li>b) Set the VBW ≥[3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max hold.</li> <li>e) Sweep = auto couple.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</li> </ul>						
	Limit:	≥ 500 kHz						
	Test Mode:	Refer to clause 5.3						
	Test Results:	Refer to Appendix A						

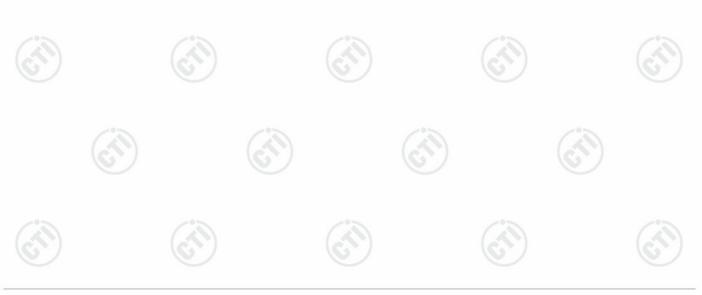




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## 6.5 Maximum Power Spectral Density

127.7	16.7
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Computer Power Power Power Power Power RF test
	Attenuator Instrument  Table  Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ul> <li>a) Set analyzer center frequency to DTS channel center frequency.</li> <li>b) Set the span to 1.5 times the DTS bandwidth.</li> <li>c) Set the RBW to 3 kHz &lt; RBW &lt; 100 kHz.</li> <li>d) Set the VBW &gt; [3 × RBW].</li> <li>e) Detector = peak.</li> <li>f) Sweep time = auto couple.</li> <li>g) Trace mode = max hold.</li> <li>h) Allow trace to fully stabilize.</li> <li>i) Use the peak marker function to determine the maximum amplitude level</li> </ul>
	within the RBW.  j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

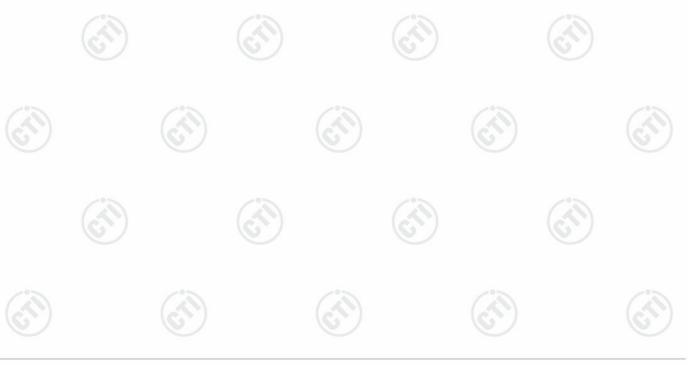




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## 6.6 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Power Supply  Power Supply  Table  RF test  System  Instrument  Instrument
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor.  a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that i produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

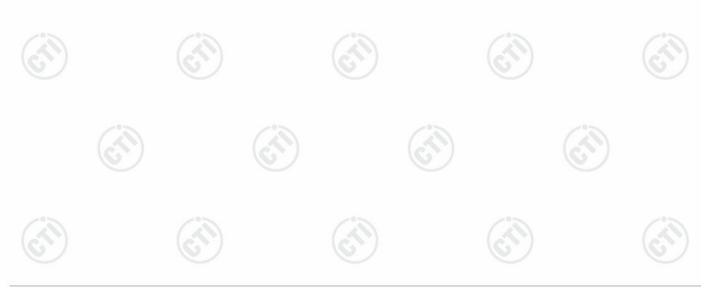




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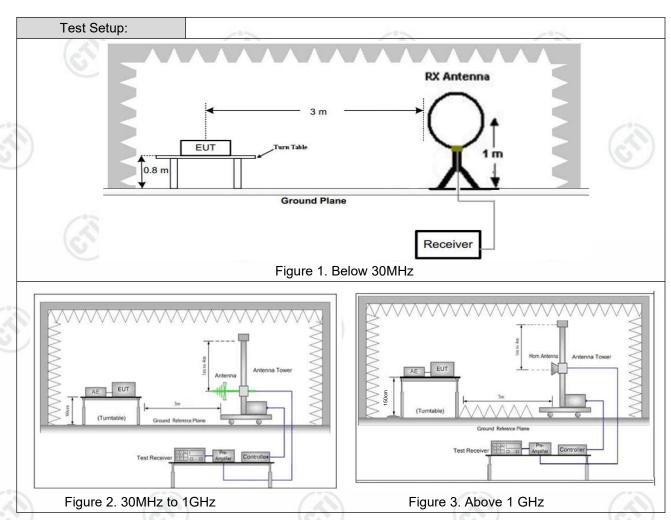
## 6.7 Radiated Spurious Emission & Restricted bands

	Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205	6,	)	
	Test Method:	ANSI C63.10 2013						
	Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)		
d	Receiver Setup:	Frequency	7	Detector	RBW	VBW	Remark	
9		0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak	
		0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average	
		0.090MHz-0.110MHz		Quasi-peak	10kHz	30kHz	Quasi-peak	
		0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak	
		0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average	
		0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak	
		30MHz-1GHz		Quasi-peak	100 kH	z 300kHz	Quasi-peak	
4		Above 4011		Peak	1MHz	3MHz	Peak	
		Above 1GHz		Peak	1MHz	10kHz	Average	
	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)	
		0.009MHz-0.490MHz	2	400/F(kHz)	-	>	300	
		0.490MHz-1.705MHz	24	1000/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	6)	200	46.0	Quasi-peak	3	
		960MHz-1GHz	/	500	54.0	Quasi-peak	3	
		Above 1GHz		500	54.0	Average	3	
		frequency emissions is limit applicable to the e	Note: 15.35(b), Unless otherwise specified, the limit on peak radi frequency emissions is 20dB above the maximum permitted average emissio limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					





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Test Procedure:	<ul> <li>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.</li> <li>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.</li> <li>Note: For the radiated emission test above 1GHz:</li> <li>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.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> </ul>
rest Procedure.	<ul> <li>c. 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.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case</li> </ul>
	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.
	<ul> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ul>
	<ul> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> <li>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 worst case.</li> </ul>
	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass









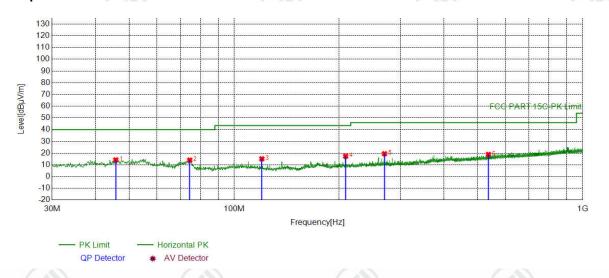




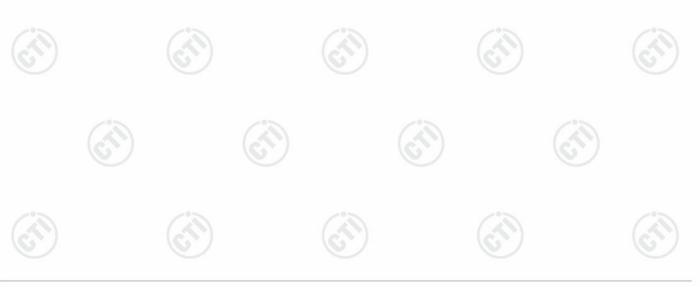
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## Radiated Spurious Emission below 1GHz:

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

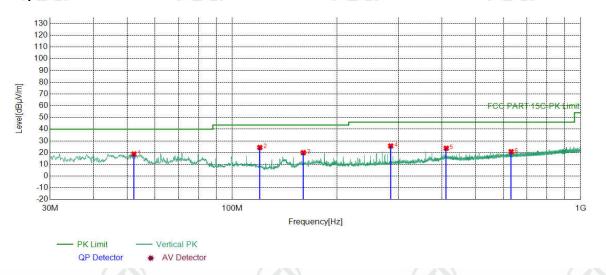


NO	Freq.	Factor	Reading	Level	Limit	Mersin [dD]	Daguit	Delevity	Damank
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	45.7156	-17.16	31.38	14.22	40.00	25.78	PASS	Horizontal	Peak
2	74.5275	-21.60	35.66	14.06	40.00	25.94	PASS	Horizontal	Peak
3	120.0250	-20.08	35.24	15.16	43.50	28.34	PASS	Horizontal	Peak
4	208.8859	-17.63	34.94	17.31	43.50	26.19	PASS	Horizontal	Peak
5	270.0020	-16.15	35.63	19.48	46.00	26.52	PASS	Horizontal	Peak
6	536.5847	-10.11	28.99	18.88	46.00	27.12	PASS	Horizontal	Peak

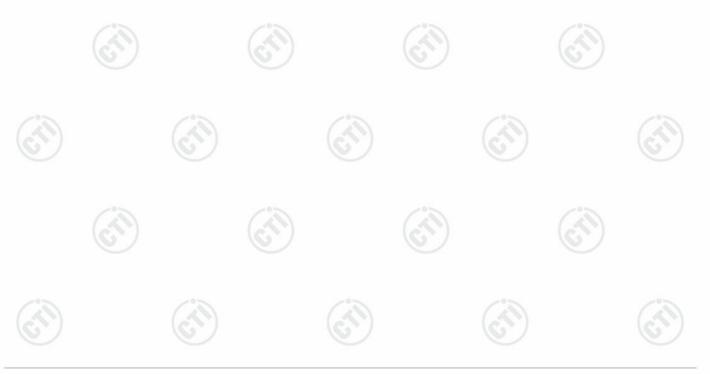




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NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	52.2152	-17.47	36.31	18.84	40.00	21.16	PASS	Vertical	Peak
2	120.0250	-20.08	44.47	24.39	43.50	19.11	PASS	Vertical	Peak
3	159.9930	-21.15	41.14	19.99	43.50	23.51	PASS	Vertical	Peak
4	285.0385	-15.83	41.51	25.68	46.00	20.32	PASS	Vertical	Peak
5	411.4421	-12.69	36.44	23.75	46.00	22.25	PASS	Vertical	Peak
6	631.9452	-8.40	29.27	20.87	46.00	25.13	PASS	Vertical	Peak







## Radiated Spurious Emission above 1GHz:

Mode	:		802.11 b Trar	nsmitting	Channel:		2412MHz		
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1396.6397	1.38	42.50	43.88	74.00	30.12	PASS	Н	PK
2	1966.4967	4.38	41.19	45.57	74.00	28.43	PASS	Н	PK
3	4824.1216	-16.22	59.86	43.64	74.00	30.36	PASS	Н	PK
4	6842.2562	-12.16	54.07	41.91	74.00	32.09	PASS	Н	PK
5	10344.4896	-6.38	52.23	45.85	74.00	28.15	PASS	Н	PK
6	12500.6334	-4.83	53.86	49.03	74.00	24.97	PASS	Н	PK
7	1268.8269	0.98	43.22	44.20	74.00	29.80	PASS	V	PK
8	1753.0753	3.12	42.38	45.50	74.00	28.50	PASS	V	PK
9	4824.1216	-16.22	63.88	47.66	74.00	26.34	PASS	V	PK
10	6327.2218	-12.90	55.20	42.30	74.00	31.70	PASS	V	PK
11	9264.4176	-7.93	52.97	45.04	74.00	28.96	PASS	V	PK
12	12647.6432	-4.49	52.42	47.93	74.00	26.07	PASS	V	PK

N	/lode	:		802	.11 b Tran	smitting		Channel:		2437MHz	
١	0	Freq. [MHz]	Facto	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1235.8236	0.89		42.94	43.83	74.00	30.17	PASS	Н	PK
ć	2	1669.6670	2.74		42.09	44.83	74.00	29.17	PASS	Н	PK
	3	4874.1249	-16.21		61.65	45.44	74.00	28.56	PASS	Н	PK
	4	7135.2757	-11.67	'	54.24	42.57	74.00	31.43	PASS	Н	PK
	5	9240.4160	-7.91		52.74	44.83	74.00	29.17	PASS	Н	PK
	6	13758.7172	-1.69		51.40	49.71	74.00	24.29	PASS	Н	PK
	7	1425.4425	1.41		42.34	43.75	74.00	30.25	PASS	V	PK
	8	1968.8969	4.39		40.78	45.17	74.00	28.83	PASS	V	PK
	9	4874.1249	-16.21		62.99	46.78	74.00	27.22	PASS	V	PK
	10	7071.2714	-11.65	5	54.46	42.81	74.00	31.19	PASS	V	PK
0	11	10708.5139	-6.45		52.89	46.44	74.00	27.56	PASS	V	PK
3	12	16335.8891	0.94		51.10	52.04	74.00	21.96	PASS	V	PK













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_		10%		1000		J-07%		100	Prog.	
	Mode	:		802.11 b Trai	nsmitting		Channe	el:	2462MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
0.7	1	1234.0234	0.89	42.84	43.73	74.00	30.27	PASS	Н	PK
Ś	2	1695.6696	2.91	41.67	44.58	74.00	29.42	PASS	Н	PK
þ	3	4924.1283	-16.11	69.80	53.69	74.00	20.31	PASS	Н	PK
	4	7229.2820	-11.80	54.25	42.45	74.00	31.55	PASS	Н	PK
Ī	5	10251.4834	-6.79	53.13	46.34	74.00	27.66	PASS	Н	PK
	6	12538.6359	-4.55	52.44	47.89	74.00	26.11	PASS	Н	PK
	7	1265.8266	0.97	43.09	44.06	74.00	29.94	PASS	V	PK
Ī	8	1900.2900	4.03	41.49	45.52	74.00	28.48	PASS	V	PK
	9	4923.1282	-16.11	66.26	50.15	74.00	23.85	PASS	V	PK
	10	7619.3080	-11.19	54.48	43.29	74.00	30.71	PASS	V	PK
é	11	10823.5216	-6.26	52.63	46.37	74.00	27.63	PASS	V	PK
9	12	14365.7577	0.65	49.84	50.49	74.00	23.51	PASS	V	PK

Mode	:		802.11 g Tran	smitting		Channel:		2412MHz	
NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1394.2394	1.37	42.32	43.69	74.00	30.31	PASS	Н	PK
2	2041.1041	4.69	41.67	46.36	74.00	27.64	PASS	Н	PK
3	4765.1177	-16.35	56.04	39.69	74.00	34.31	PASS	Н	PK
4	7161.2774	-11.74	54.38	42.64	74.00	31.36	PASS	Н	PK
5	10264.4843	-6.70	52.17	45.47	74.00	28.53	PASS	Н	PK
6	14350.7567	0.40	49.73	50.13	74.00	23.87	PASS	Н	PK
7	1340.8341	1.19	42.67	43.86	74.00	30.14	PASS	V	PK
8	1848.8849	3.65	41.57	45.22	74.00	28.78	PASS	V	PK
9	4821.1214	-16.22	56.06	39.84	74.00	34.16	PASS	V	PK
10	7126.2751	-11.65	53.84	42.19	74.00	31.81	PASS	V	PK
11	9202.4135	-7.88	52.76	44.88	74.00	29.12	PASS	V	PK
12	13771.7181	-1.67	51.33	49.66	74.00	24.34	PASS	V	PK













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		_0				10%			Prog.	
	Mode	:		802.11 g Tran	smitting		Channe	el:	2437MH	Z
	NO	Freq. [MHz]	Factor	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
e 00	1	1352.8353	1.23	42.51	43.74	74.00	30.26	PASS	Н	PK
Š	2	1725.0725	3.03	42.15	45.18	74.00	28.82	PASS	Н	PK
9	3	4757.1171	-16.38	55.93	39.55	74.00	34.45	PASS	Н	PK
	4	7156.2771	-11.73	54.87	43.14	74.00	30.86	PASS	Н	PK
	5	10336.4891	-6.39	53.00	46.61	74.00	27.39	PASS	Н	PK
	6	12412.6275	-4.71	53.64	48.93	74.00	25.07	PASS	Н	PK
	7	1364.2364	1.27	42.52	43.79	74.00	30.21	PASS	V	PK
	8	1974.8975	4.42	41.54	45.96	74.00	28.04	PASS	V	PK
	9	4893.1262	-16.20	55.75	39.55	74.00	34.45	PASS	V	PK
	10	7038.2692	-11.73	54.18	42.45	74.00	31.55	PASS	V	PK
Ž	11	11749.5833	-6.18	53.72	47.54	74.00	26.46	PASS	V	PK
3	12	13770.7180	-1.67	51.69	50.02	74.00	23.98	PASS	V	PK

Mode	:		802.11 g Tran	802.11 g Transmitting				2462MHz	
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1291.4291	1.04	42.56	43.60	74.00	30.40	PASS	Н	PK
2	1820.0820	3.43	42.10	45.53	74.00	28.47	PASS	Н	PK
3	4925.1283	-16.10	57.04	40.94	74.00	33.06	PASS	Н	PK
4	7760.3174	-11.25	55.29	44.04	74.00	29.96	PASS	Н	PK
5	9291.4194	-7.94	53.15	45.21	74.00	28.79	PASS	Н	PK
6	15341.8228	-0.15	50.75	50.60	74.00	23.40	PASS	Н	PK
7	1279.8280	1.01	43.80	44.81	74.00	29.19	PASS	V	PK
8	1882.8883	3.90	42.13	46.03	74.00	27.97	PASS	V	PK
9	4926.1284	-16.10	57.32	41.22	74.00	32.78	PASS	V	PK
10	7628.3086	-11.17	54.40	43.23	74.00	30.77	PASS	V	PK
11	10734.5156	-6.39	52.71	46.32	74.00	27.68	PASS	V	PK
12	14379.7587	0.88	48.94	49.82	74.00	24.18	PASS	V	PK













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									1.0	
	Mode	:		802.11 n(HT2	0) Transmitti	ng	Channe	el:	2412MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
9	1	1294.2294	1.04	42.82	43.86	74.00	30.14	PASS	Н	PK
	2	1761.8762	3.15	41.96	45.11	74.00	28.89	PASS	Н	PK
4	3	4792.1195	-16.26	55.80	39.54	74.00	34.46	PASS	Н	PK
Ī	4	7775.3184	-11.30	55.01	43.71	74.00	30.29	PASS	Н	PK
	5	10310.4874	-6.44	53.08	46.64	74.00	27.36	PASS	Н	PK
	6	14390.7594	1.07	49.29	50.36	74.00	23.64	PASS	Н	PK
Ī	7	1392.4392	1.37	42.41	43.78	74.00	30.22	PASS	V	PK
Ī	8	1823.0823	3.45	41.52	44.97	74.00	29.03	PASS	V	PK
Ī	9	5044.1363	-15.76	55.33	39.57	74.00	34.43	PASS	V	PK
R)	10	7167.2778	-11.75	54.04	42.29	74.00	31.71	PASS	V	PK
6	11	9248.4166	-7.91	52.91	45.00	74.00	29.00	PASS	V	PK
٩	12	13713.7142	-1.75	51.21	49.46	74.00	24.54	PASS	V	PK

Mod	e:		802.11 n(HT2	0) Transmitti	ng	Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1294.2294	1.04	42.69	43.73	74.00	30.27	PASS	Н	PK
2	1838.4838	3.57	43.11	46.68	74.00	27.32	PASS	Н	PK
3	4656.1104	-16.63	55.73	39.10	74.00	34.90	PASS	Н	PK
4	6726.2484	-12.46	54.05	41.59	74.00	32.41	PASS	Н	PK
5	9212.4142	-7.89	53.36	45.47	74.00	28.53	PASS	Н	PK
6	13208.6806	-3.14	51.77	48.63	74.00	25.37	PASS	Н	PK
7	1210.6211	0.83	43.43	44.26	74.00	29.74	PASS	V	PK
8	1798.2798	3.27	41.84	45.11	74.00	28.89	PASS	V	PK
9	4313.0875	-17.21	56.83	39.62	74.00	34.38	PASS	V	PK
10	6435.2290	-12.80	55.41	42.61	74.00	31.39	PASS	V	PK
11	9246.4164	-7.91	53.51	45.60	74.00	28.40	PASS	V	PK
12	14340.7561	0.24	49.75	49.99	74.00	24.01	PASS	V	PK













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Mod	e:		802.11 n(HT2	0) Transmitti	ng	Channe	el:	2462MH	Z
NO	Freq. [MHz]	Factor	<u> </u>	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1395.8396	1.38	42.68	44.06	74.00	29.94	PASS	Н	PK
2	1853.8854	3.68	41.57	45.25	74.00	28.75	PASS	Н	PK
3	4913.1275	-16.15	56.08	39.93	74.00	34.07	PASS	Н	PK
4	7160.2774	-11.74	55.44	43.70	74.00	30.30	PASS	Н	PK
5	10323.4882	-6.42	52.58	46.16	74.00	27.84	PASS	Н	PK
6	13329.6886	-3.26	51.62	48.36	74.00	25.64	PASS	Н	PK
7	1293.0293	1.04	43.18	44.22	74.00	29.78	PASS	V	PK
8	1898.2898	4.02	40.92	44.94	74.00	29.06	PASS	V	PK
9	4801.1201	-16.23	55.90	39.67	74.00	34.33	PASS	V	PK
10	7218.2812	-11.81	54.59	42.78	74.00	31.22	PASS	V	PK
11	9246.4164	-7.91	52.98	45.07	74.00	28.93	PASS	V	PK
12	13758.7172	-1.69	52.00	50.31	74.00	23.69	PASS	V	PK

Mode	<b>)</b> :		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2422MH:	Z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1147.4147	0.83	43.70	44.53	74.00	29.47	PASS	Н	PK
2	1738.6739	3.07	41.93	45.00	74.00	29.00	PASS	Н	PK
3	4898.1265	-16.20	55.79	39.59	74.00	34.41	PASS	Н	PK
4	7132.2755	-11.66	54.23	42.57	74.00	31.43	PASS	Н	PK
5	9809.4540	-7.35	51.99	44.64	74.00	29.36	PASS	Н	PK
6	13718.7146	-1.74	51.10	49.36	74.00	24.64	PASS	Н	PK
7	1338.8339	1.19	42.45	43.64	74.00	30.36	PASS	V	PK
8	1821.0821	3.44	42.02	45.46	74.00	28.54	PASS	V	PK
9	4675.1117	-16.61	56.22	39.61	74.00	34.39	PASS	V	PK
10	7267.2845	-11.74	54.77	43.03	74.00	30.97	PASS	V	PK
11	9155.4104	-8.24	53.25	45.01	74.00	28.99	PASS	V	PK
12	13680.7120	-1.74	50.96	49.22	74.00	24.78	PASS	V	PK













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Mode	:		802.11 n(HT4	0) Transmitti	Channe	el:	2437MHz		
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1285.0285	1.02	42.58	43.60	74.00	30.40	PASS	Н	PK
2	1736.2736	3.06	42.20	45.26	74.00	28.74	PASS	Н	PK
3	4697.1131	-16.58	56.42	39.84	74.00	34.16	PASS	Н	PK
4	7242.2828	-11.78	54.86	43.08	74.00	30.92	PASS	Н	PK
5	10311.4874	-6.44	52.37	45.93	74.00	28.07	PASS	Н	PK
6	13667.7112	-1.72	51.26	49.54	74.00	24.46	PASS	Н	PK
7	1297.6298	1.05	42.65	43.70	74.00	30.30	PASS	V	PK
8	1907.4907	4.07	41.10	45.17	74.00	28.83	PASS	V	PK
9	4829.1219	-16.22	55.37	39.15	74.00	34.85	PASS	V	PK
10	6713.2476	-12.47	54.61	42.14	74.00	31.86	PASS	V	PK
11	9255.4170	-7.92	53.05	45.13	74.00	28.87	PASS	V	PK
12	12569.6380	-4.33	53.00	48.67	74.00	25.33	PASS	V	PK

Mode	:		802.11 n(HT4	l0) Transmitti	ing	Channe	el:	2452MH	Z
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1194.6195	0.80	42.84	43.64	74.00	30.36	PASS	Н	PK
2	1825.8826	3.47	41.75	45.22	74.00	28.78	PASS	Н	PK
3	5058.1372	-15.74	55.39	39.65	74.00	34.35	PASS	Н	PK
4	7053.2702	-11.69	54.43	42.74	74.00	31.26	PASS	Н	PK
5	10347.4898	-6.37	52.81	46.44	74.00	27.56	PASS	Н	PK
6	14347.7565	0.35	50.13	50.48	74.00	23.52	PASS	Н	PK
7	1383.4383	1.34	43.09	44.43	74.00	29.57	PASS	V	PK
8	2069.1069	4.78	41.15	45.93	74.00	28.07	PASS	V	PK
9	4673.1115	-16.61	55.80	39.19	74.00	34.81	PASS	V	PK
10	6302.2201	-12.92	2 54.67	41.75	74.00	32.25	PASS	V	PK
11	9257.4172	-7.92	52.77	44.85	74.00	29.15	PASS	V	PK
12	12549.6366	-4.47	52.37	47.90	74.00	26.10	PASS	V	PK

#### Remark:

- 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 + Factor
  - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

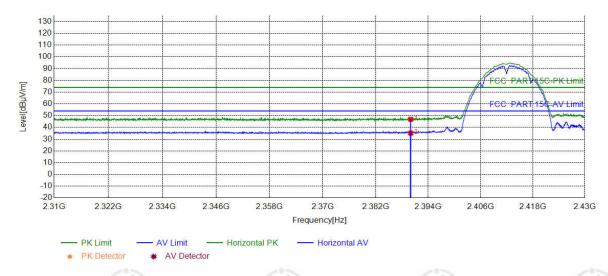


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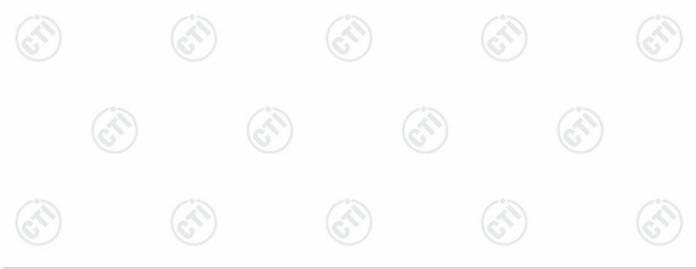
## **Restricted bands:**

## Test plot as follows:

Mode:	802.11 b Transmitting	Channel:	2412
Remark:	0		//



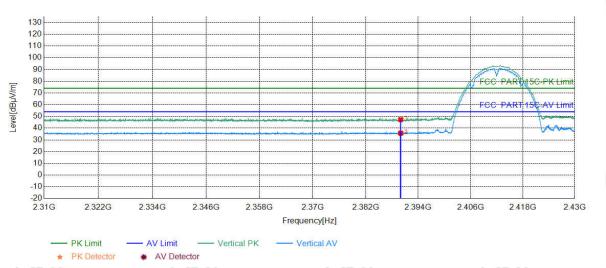
Suspe	Suspected List											
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark			
INO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	1 Glarity	Kemark			
1	2390.0000	5.77	41.12	46.89	74.00	27.11	PASS	Horizontal	PK			
2	2390.0000	5.77	29.40	35.17	54.00	18.83	PASS	Horizontal	AV			





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100 0	A Section 1	S. A	10.4
Mode:	802.11 b Transmitting	Channel:	2412
Remark:			



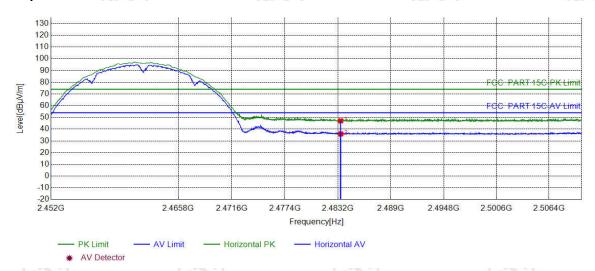
	Suspected List										
0 1	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark	
Ę,	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	rtesuit	1 Glarity	Kemark	
	1	2390.0000	5.77	41.53	47.30	74.00	26.70	PASS	Vertical	PK	
	2	2390.0000	5.77	29.93	35.70	54.00	18.30	PASS	Vertical	AV	



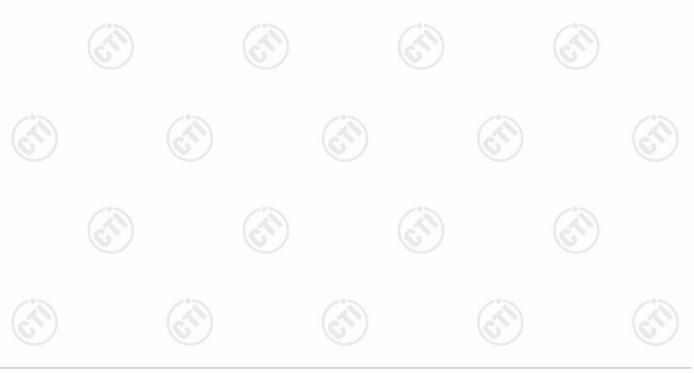


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	A & A	Section 1	10.4
Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



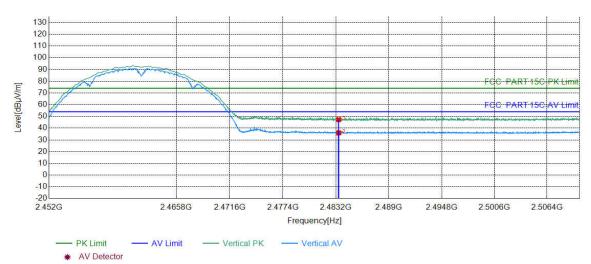
Suspected List										
0 -	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
(	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folarity	INCIIIAIN
2	1	2483.5000	6.57	40.58	47.15	74.00	26.85	PASS	Horizontal	PK
	2	2483.5000	6.57	29.35	35.92	54.00	18.08	PASS	Horizontal	AV



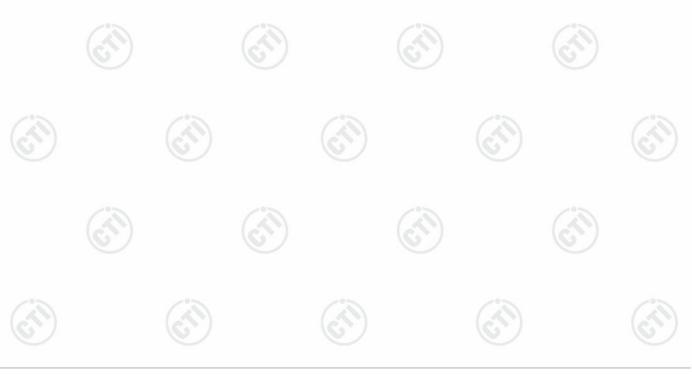


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Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



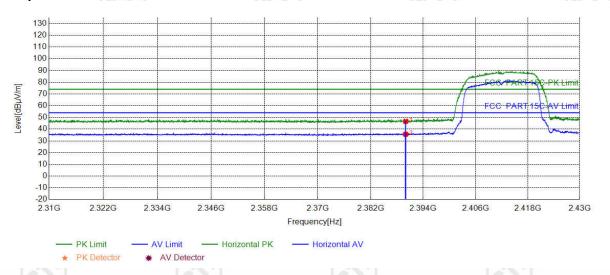
Suspected List										
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
(	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result		
	1	2483.5000	6.57	40.72	47.29	74.00	26.71	PASS	Vertical	PK
	2	2483.5000	6.57	29.46	36.03	54.00	17.97	PASS	Vertical	AV





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Mode:	802.11 g Transmitting	Channel:	2412
Remark:			



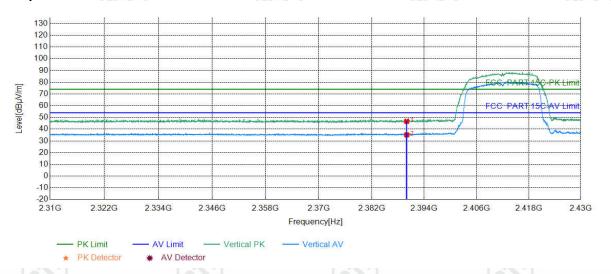
Suspected List										
0 1	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
S	110	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
	1	2390.0000	5.77	40.87	46.64	74.00	27.36	PASS	Horizontal	PK
	2	2390.0000	5.77	29.88	35.65	54.00	18.35	PASS	Horizontal	AV



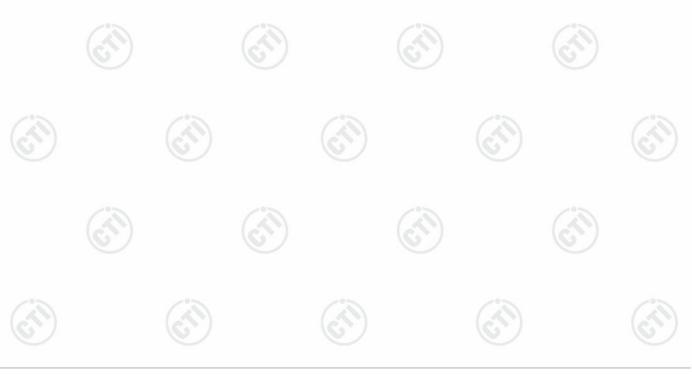


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Mode:	802.11 g Transmitting	Channel:	2412
Remark:			



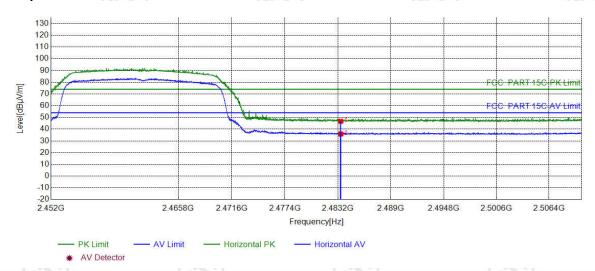
Suspected List										
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
Ś	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
	1	2390.0000	5.77	40.88	46.65	74.00	27.35	PASS	Vertical	PK
	2	2390.0000	5.77	29.40	35.17	54.00	18.83	PASS	Vertical	AV



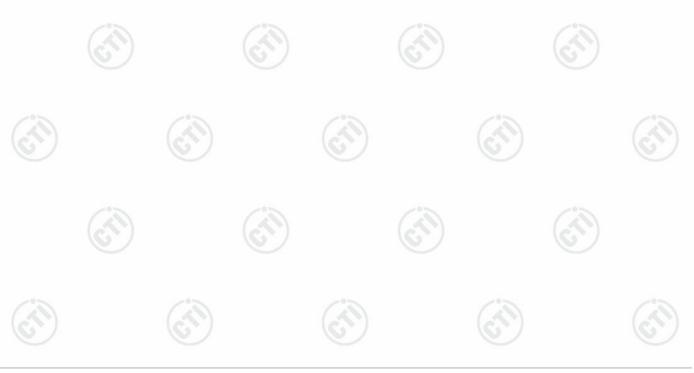


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Mode:	802.11 g Transmitting	Channel:	2462
Remark:			



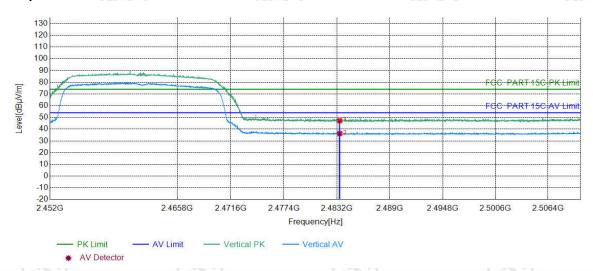
Suspected List										
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
Š	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result		INCIIIAIN
	1	2483.5000	6.57	40.19	46.76	74.00	27.24	PASS	Horizontal	PK
	2	2483.5000	6.57	29.30	35.87	54.00	18.13	PASS	Horizontal	AV



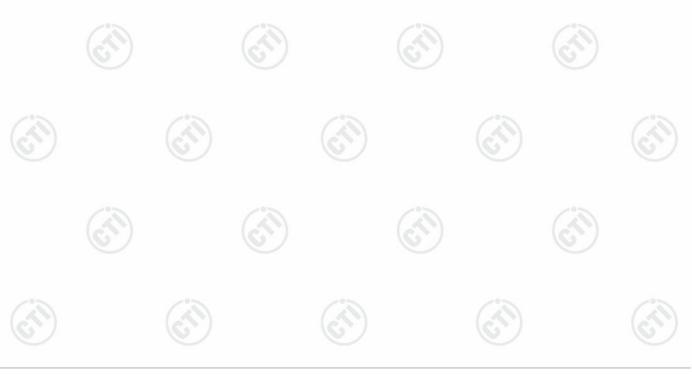


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Mode:	802.11 g Transmitting	Channel:	2462
Remark:			



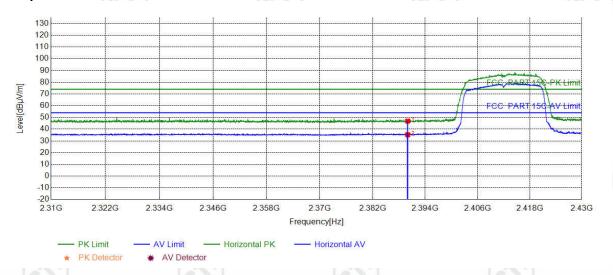
Suspected List										
0-	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
(	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	Folality	Remark
2	1	2483.5000	6.57	40.67	47.24	74.00	26.76	PASS	Vertical	PK
	2	2483.5000	6.57	29.72	36.29	54.00	17.71	PASS	Vertical	AV



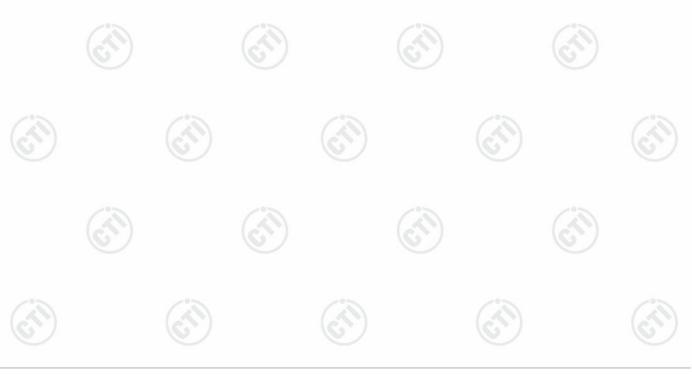


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Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:			



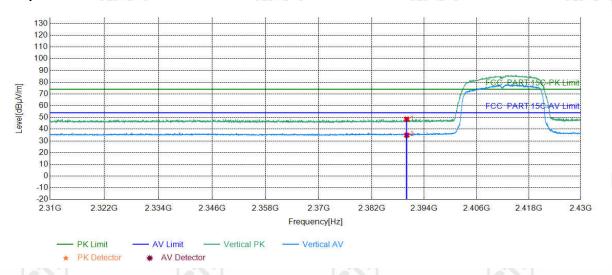
Suspected List										
NO	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result		INCIIIAIN
	1	2390.0000	5.77	41.15	46.92	74.00	27.08	PASS	Horizontal	PK
	2	2390.0000	5.77	29.49	35.26	54.00	18.74	PASS	Horizontal	AV



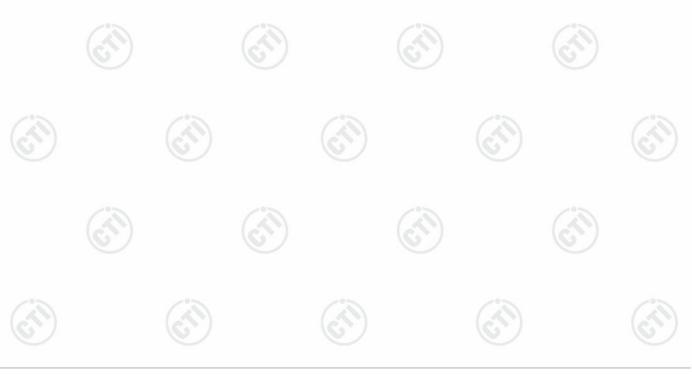


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Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:			



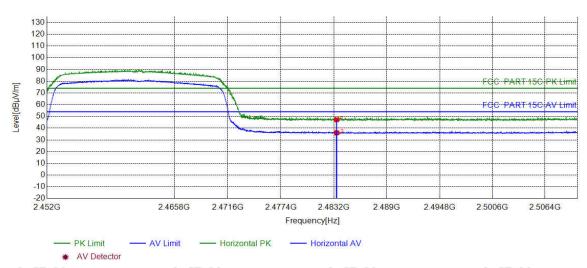
	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
Š	140	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	l Glarity	IXCIIIAIK
	1	2390.0000	5.77	42.74	48.51	74.00	25.49	PASS	Vertical	PK
	2	2390.0000	5.77	29.11	34.88	54.00	19.12	PASS	Vertical	AV



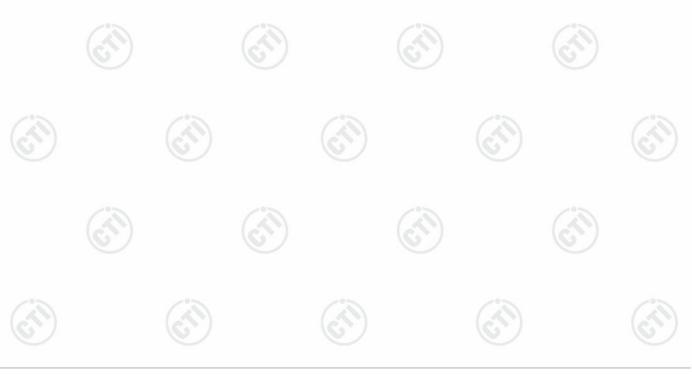


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The state of the s	A State of the sta	0	3.00.00
Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:			



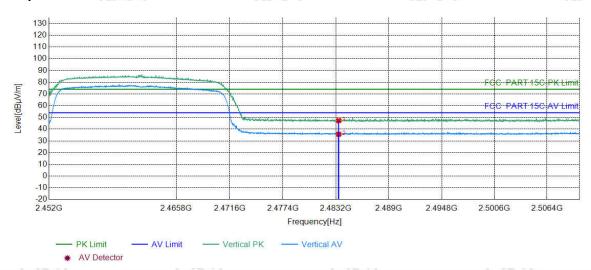
	Suspected List									
N	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	IVO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Folality	INCIIIAIN
	1	2483.5000	6.57	40.73	47.30	74.00	26.70	PASS	Horizontal	PK
	2	2483.5000	6.57	29.50	36.07	54.00	17.93	PASS	Horizontal	AV



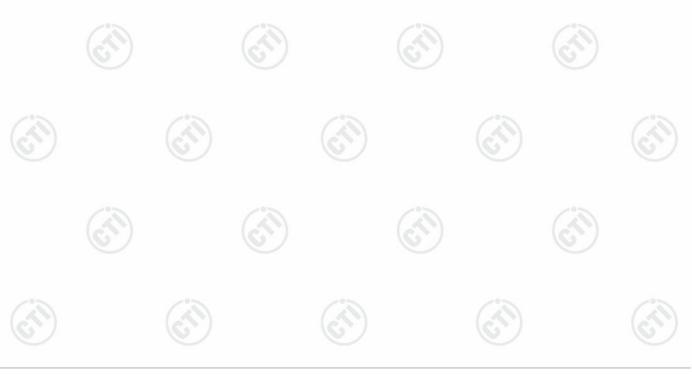


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Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:			



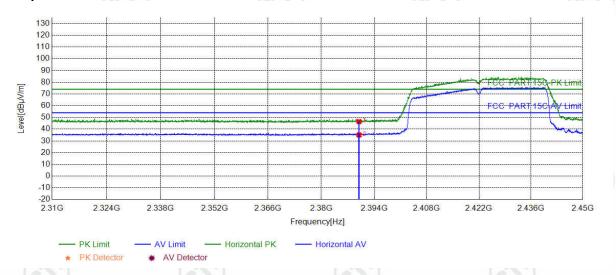
	Suspected List									
.,	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
Š	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
	1	2483.5000	6.57	40.74	47.31	74.00	26.69	PASS	Vertical	PK
	2	2483.5000	6.57	29.13	35.70	54.00	18.30	PASS	Vertical	AV



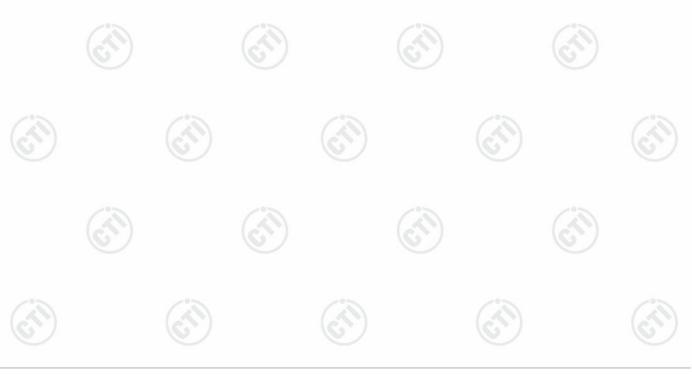


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Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



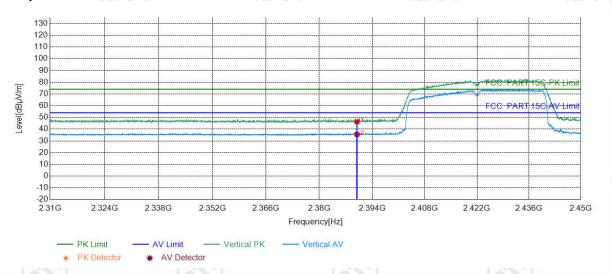
Suspected List										
0 -	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
(	INO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	INCIIIAIN
2	1	2390.0000	5.77	40.70	46.47	74.00	27.53	PASS	Horizontal	PK
	2	2390.0000	5.77	29.28	35.05	54.00	18.95	PASS	Horizontal	AV





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Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



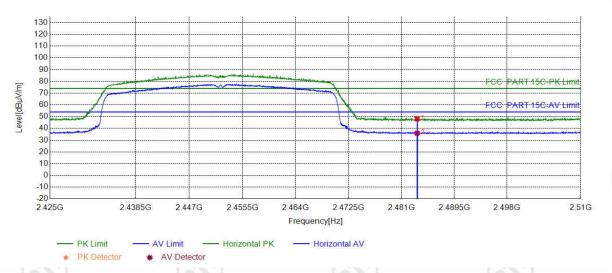
	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
(	110	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Nesuit	l Clarity	IXCIIIAIX
	1	2390.0000	5.77	40.65	46.42	74.00	27.58	PASS	Vertical	PK
	2	2390.0000	5.77	29.81	35.58	54.00	18.42	PASS	Vertical	AV





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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:			



	Suspected List										
6	NO	Freq. [MHz]	Factor [dB]	Reading	Level	Limit	Margin [dB]	Result	Polarity	Remark	
	1	2483.5000	6.57	41.53	48.10	74.00	25.90	PASS	Horizontal	PK	
	2	2483.5000	6.57	29.34	35.91	54.00	18.09	PASS	Horizontal	AV	

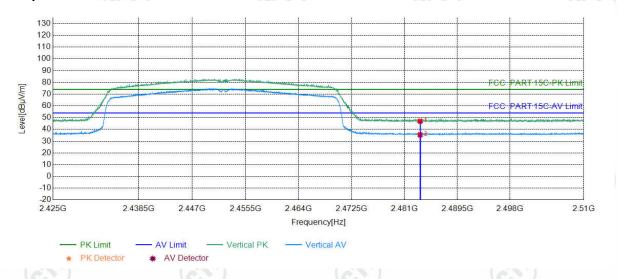




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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:			

#### **Test Graph**



	Suspe	uspected List											
0.7	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark			
9		[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]		•				
2	1	2483.5000	6.57	40.40	46.97	74.00	27.03	PASS	Vertical	PK			
	2	2483.5000	6.57	28.81	35.38	54.00	18.62	PASS	Vertical	AV			

#### Note

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 - Factor

Factor = Preamplifier Factor - Antenna Factor - Cable Factor



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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## 7 Appendix A







