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TEST REPORT

Product New Energy Vehicle Integrated

Detection Tool

SmartSafe Trade mark

iSmartEV P03 Model/Type reference

Serial Number N/A

Report Number : EED32O81503003

FCC ID 2AYANEVP03 Date of Issue Nov. 16, 2022

Test Standards : 47 CFR Part 15 Subpart C

PASS Test result

Prepared for:

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

Prepared by:

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Nov. 16, 2022

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3 Version

Version No.	Date	6	Description	9
00	Nov. 16, 2022		Original	
	0	10		
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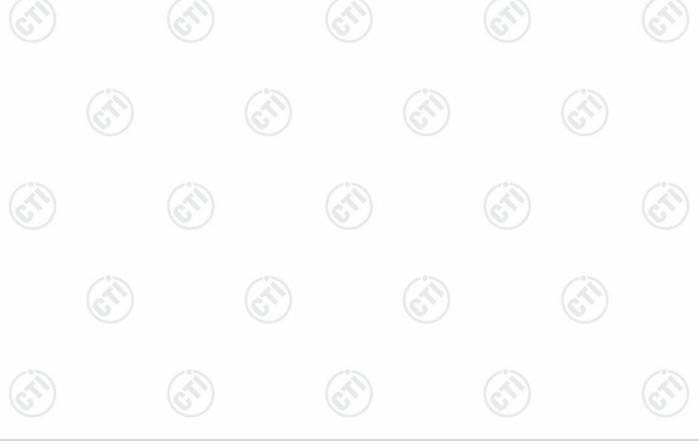
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4 Test Summary

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:

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







5 General Information

5.1 Client Information

Applicant:	SHENZHEN 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

5.2 General Description of EUT

E Contra Docomp		-
Product Name:	New Energy '	Vehicle Integrated Detection Tool
Model No.:	iSmartEV P0	3
Trade mark:	SmartSafe	$(C_{\mathcal{C}})$ $(C_{\mathcal{C}})$ $(C_{\mathcal{C}})$
Product Type:	Fix Location	
Operation Frequency:		o/g/n(HT20): 2412MHz to 2462MHz n(HT40): 2422MHz to 2452MHz
Modulation Type:	IEEE for 802.	11b: DSSS(CCK,DQPSK,DBPSK) 11g :OFDM(64QAM, 16QAM, QPSK, BPSK) 11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,
Number of Channel:		o/g, IEEE 802.11n HT20: 11 Channels n HT40: 7 Channels
Channel Separation:	5MHz	
Antenna Type:	FPC antenna	
Antenna Gain:	3.72dBi	
Power Supply:	Adapter:	model: CGSW65-120-5000II input: 100-240V~50/60Hz,1.5A output: 12.0V5.0A 60.0W
Test Voltage:	AC 120V	•
Sample Received Date:	Sep. 23, 2022	
Sample tested Date:	Sep. 23, 2022	2 to Oct. 21, 2022





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-/-	_	123	A	-/3			- / 3	
Operation	Frequency ea	ch of chann	el (802.11b/g/n	HT20)	4		(65))
Channel	Frequency	Channel	Frequency	Channel	Freque	ency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442	ИНz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447	ИНz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz			(0)
Operation	Frequency ea	ch of chann	el (802.11n HT	40)				
Channel	Frequ	ency	Channel	Frequenc	су	Chan	inel F	requency
3	2422	MHz	6	2437MH	z	9	120	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







5.3 Test Configuration

EUT Test Software Settings:	
Software:	N/A
EUT Power Grade:	Class2 (Power level is built-in set parameters and cannot be changed and selected)

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

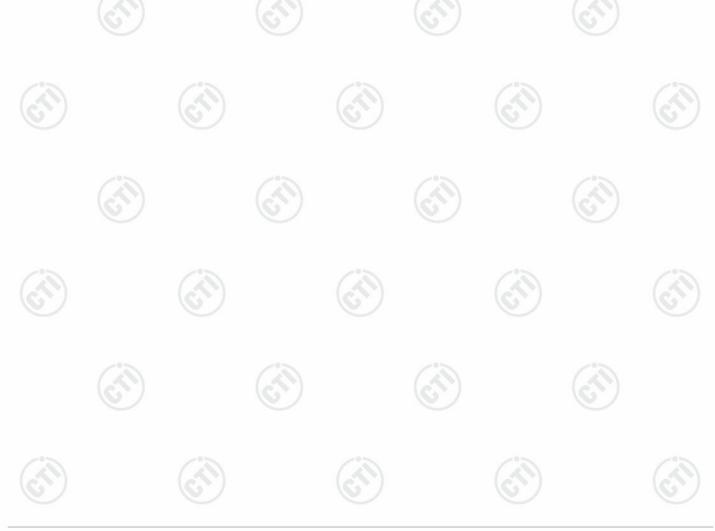
Test Mode:

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).







5.4 Test Environment

	Operating Environment	::					
	Radiated Spurious Emissions:						
19	Temperature:	22~25.0 °C	(40)		(41)		(41)
1	Humidity:	50~55 % RH	0		(0)		6
	Atmospheric Pressure:	1010mbar					
	Conducted Emissions:						
	Temperature:	22~25.0 °C		(2)		(30)	
	Humidity:	50~55 % RH		(0,)		(0,)	
	Atmospheric Pressure:	1010mbar					
	RF Conducted:						
	Temperature:	22~25.0 °C	(°)		(3)		
(°)	Humidity:	50~55 % RH	(6.77)		(6.73)		(C.)
	Atmospheric Pressure:	1010mbar					

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	CTI

5.6 Test Location

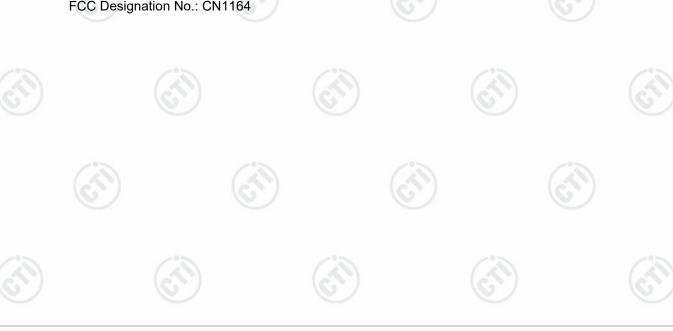
All tests were performed at:

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

101	
Item	Measurement Uncertainty
Radio Frequency	7.9 x 10 ⁻⁸
DE newer conducted	0.46dB (30MHz-1GHz)
RF power, conducted	0.55dB (1GHz-40GHz)
	3.3dB (9kHz-30MHz)
adiated Churique emission test	4.3dB (30MHz-1GHz)
adiated Spurious emission test	4.5dB (1GHz-18GHz)
	3.4dB (18GHz-40GHz)
Conduction emission	3.5dB (9kHz to 150kHz)
Conduction emission	3.1dB (150kHz to 30MHz)
Temperature test	0.64°C
Humidity test	3.8%
DC power voltages	0.026%
	Radio Frequency RF power, conducted Radiated Spurious emission test Conduction emission Temperature test Humidity test





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6 Equipment List

RF test system								
Equipment	Manufacturer	Manufacturer Mode No.		Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)			
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022			
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022			
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022			
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022			
Power unit R&S		OSP120	101374	12-24-2021	12-23-2022			
RF control unit	RF control unit		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					

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		(61)			
LISN	R&S	ENV216	100098	03-01-2022	02-28-2023			
Barometer changchun		DYM3	1188					







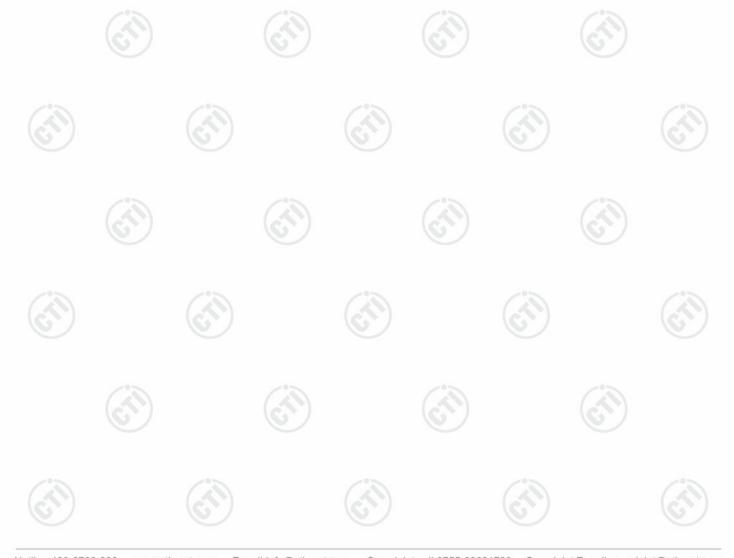






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3M Semi-an	echoic Chamber (2)-	- Radiated distu	rbance Test	
Manufacturer	Model	Serial No.	Cal. Date	Due Date
TDK	SAC-3		05/22/2022	05/21/2025
R&S	ESCI7	100938-003	10/14/2021 09/28/2022	10/13/2022 09/27/2023
schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2023
maturo	NCD/070/10711112	(B)	(2)	
ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Schwarzbeck	FMZB 1519B	1519B-076	04/17/2021	04/16/2024
Agilent	8449B	3008A02425	06/20/2022	06/19/2023
	Manufacturer TDK R&S schwarzbeck maturo ETS-LINGREN Schwarzbeck	Manufacturer Model TDK SAC-3 R&S ESCI7 schwarzbeck VULB 9163 maturo NCD/070/10711112 ETS-LINGREN BBHA 9120D Schwarzbeck FMZB 1519B	Manufacturer Model Serial No. TDK SAC-3 R&S ESCI7 100938-003 schwarzbeck VULB 9163 9163-618 maturo NCD/070/10711112 ETS-LINGREN BBHA 9120D 9120D-1869 Schwarzbeck FMZB 1519B 1519B-076	TDK SAC-3 05/22/2022 R&S ESCI7 100938-003 10/14/2021 09/28/2022 schwarzbeck VULB 9163 9163-618 05/22/2022 maturo NCD/070/10711112 ETS-LINGREN BBHA 9120D 9120D-1869 04/15/2021 Schwarzbeck FMZB 1519B 1519B-076 04/17/2021





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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	IS Innecend IS36-RSE		10166		
Receiver			MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023
Fully Anechoic Chamber	TDK	FAC-3	(C.)	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	<u></u>	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001		
Cable line	Times	EMC104-NMNM-1000	SN160710	- (2	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	6)
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		7(2)
Cable line	Times	HF160-KMKM-3.00M	393493-0001	<u></u>	70.















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7 Test results and Measurement Data

7.1 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 FPC antenna. The best case gain of the antenna is 3.72dBi.





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7.2 AC Power Line Conducted Emissions

	T GYSCYA!	47 OFD Dark 450 Ocation 45	A 4 -	(65)
	Test Requirement:	47 CFR Part 15C Section 15.3	207	
	Test Method:	ANSI C63.10: 2013		
A.	Test Frequency Range:	150kHz to 30MHz		
Š	Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	1 45 71	
	Limit:	Frequency range (MHz)	Limit (d	
			Quasi-peak	Average
		0.15-0.5	66 to 56*	56 to 46*
		0.5-5	56	46
		5-30	60	50
	T 101	* Decreases with the logarithr	n of the frequency.	
	Test Setup:			
		Shielding Room EUT AC Mains LISN1	AE LISN2 AC Mai	Test Receiver
	Test Procedure:	1) The mains terminal disturb	Ground Reference Plane	a conducted in a chicked
	rest riocedure.	impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the r	to AC power source letwork) which provides cables of all other SN 2, which was bonde as the LISN 1 for the was used to connect rating of the LISN was r	through a LISN 1 (Line is a $50\Omega/50\mu\text{H} + 5\Omega$ linear units of the EUT were not to the ground reference unit being measured. A multiple power cables to a not exceeded.
		 3) The tabletop EUT was played ground reference plane. A placed on the horizontal ground the test was performed with the EUT shall be 0.4 m vertical ground reference reference plane. The LIST unit under test and bor mounted on top of the ground the closest points of the light ground. 	and for floor-standing and round reference plane. It is a vertical ground reference ground reference below 1 was placed 0.8 miles and reference plane. The LISN 1 and the EUT.	rrangement, the EUT was erence plane. The rear of and reference plane. The to the horizontal ground from the boundary of the erence plane for LISNs his distance was between All other units of the EUT
	Test Mode:	and associated equipment 5) In order to find the maximum and all of the interface call ANSI C63.10: 2013 on cor	um emission, the relation bles must be changed and acted measurement.	ve positions of equipment according to
	Test Mode:	All modes were tested, only the 802.11b was recorded in the i		namilei or niviops tor

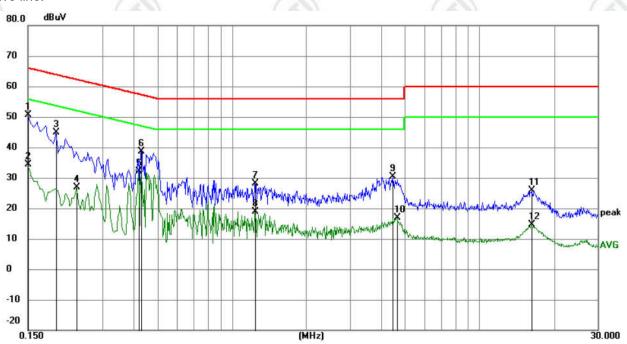


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Test Results:	Pass		
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Measurement Data

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.70	9.87	50.57	66.00	-15.43	QP	
2		0.1500	24.48	9.87	34.35	56.00	-21.65	AVG	
3		0.1949	34.93	9.87	44.80	63.83	-19.03	QP	
4		0.2355	17.00	9.94	26.94	52.25	-25.31	AVG	
5	*	0.4200	22.05	9.97	32.02	47.45	-15.43	AVG	
6		0.4290	28.62	9.96	38.58	57.27	-18.69	QP	
7		1.2390	18.36	9.82	28.18	56.00	-27.82	QP	
8		1.2390	9.09	9.82	18.91	46.00	-27.09	AVG	
9		4.4655	20.50	9.78	30.28	56.00	-25.72	QP	
10		4.6364	7.20	9.78	16.98	46.00	-29.02	AVG	
11		16.2465	15.91	9.94	25.85	60.00	-34.15	QP	
12		16.2465	4.58	9.94	14.52	50.00	-35.48	AVG	

Remark:

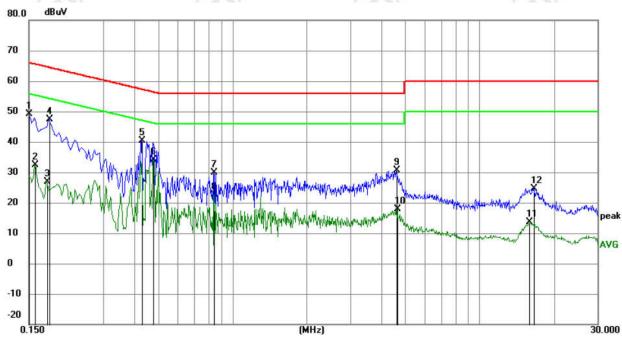
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.







Neutral line:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	39.34	9.87	49.21	66.00	-16.79	QP	
2	0.1590	22.43	9.87	32.30	55.52	-23.22	AVG	
3	0.1770	17.13	9.87	27.00	54.63	-27.63	AVG	
4	0.1815	37.54	9.87	47.41	64.42	-17.01	QP	
5	0.4290	30.49	9.96	40.45	57.27	-16.82	QP	
6 *	0.4785	24.20	9.95	34.15	46.37	-12.22	AVG	
7	0.8430	20.06	9.85	29.91	56.00	-26.09	QP	
8	0.8430	12.76	9.85	22.61	46.00	-23.39	AVG	
9	4.6185	20.73	9.78	30.51	56.00	-25.49	QP	
10	4.6500	8.04	9.78	17.82	46.00	-28.18	AVG	
11	15.8415	3.75	9.94	13.69	50.00	-36.31	AVG	
12	16.4940	14.81	9.94	24.75	60.00	-35.25	QP	

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.









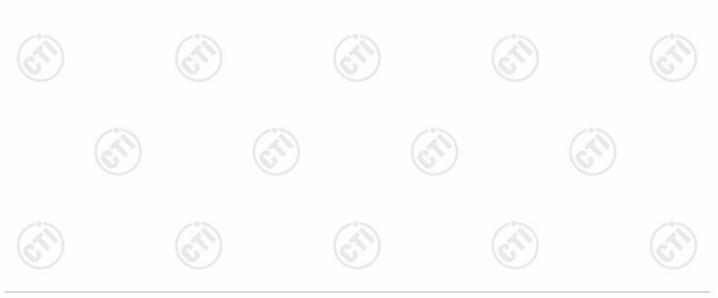






7.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	E II
	Control Compruter Power
Test Procedure:	 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. 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
Test Results:	Refer to Appendix 2.4G WIFI of module 1







7.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10 2013					
Test Setup:						
	Control Control Control Power Supply Power Supply Table RF test System Flower port(h) Attenuator Instrument					
	Remark: Offset=Cable loss+ attenuation factor.					
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. 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. 					
Limit:	≥ 500 kHz					
Test Mode:	Refer to clause 5.3					
Test Results:	Refer to Appendix 2.4G WIFI of module 1					

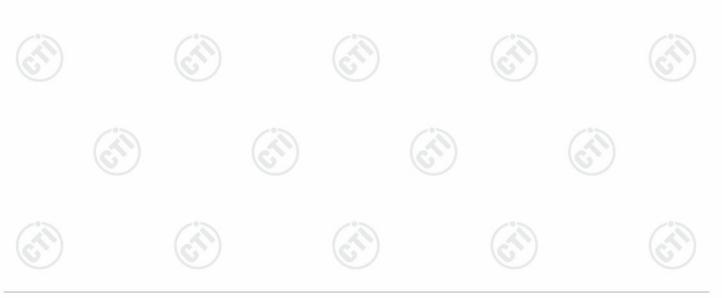






7.5 Maximum Power Spectral Density

	Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
	Test Method:	ANSI C63.10 2013		
	Test Setup:		6	
		Control Computer Power Supply Actenna podity Attenuator TEMPERATURE CABNET Table	RF test System nstrument	
a a		Remark: Offset=Cable loss+ attenuation	n factor.	6
	Test Procedure:	 a) Set analyzer center frequency to DTS b) Set the span to 1.5 times the DTS ba c) Set the RBW to 3 kHz < RBW < 100 d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to dete within the RBW. j) If measured value exceeds requirem than 3 kHz) and repeat. 	ndwidth. 0 kHz. ermine the maximum amplitude le	10
	Limit:	≤8.00dBm/3kHz		
	Test Mode:	Refer to clause 5.3		
	Test Results:	Refer to Appendix 2.4G WIFI of module	1	

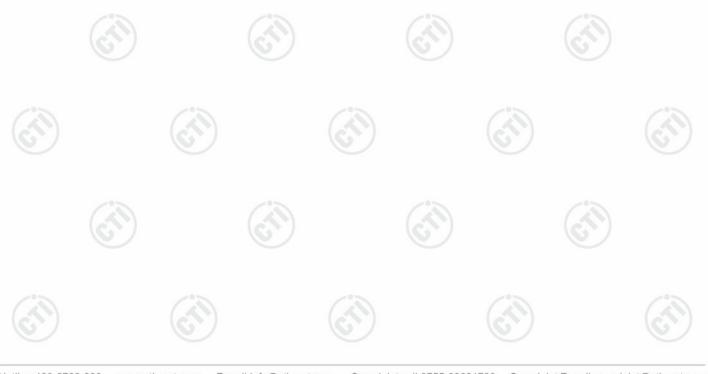






7.6 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Pools Artenna Pools Power Pools Table RF test System Instrument Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	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 is 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 2.4G WIFI of module 1

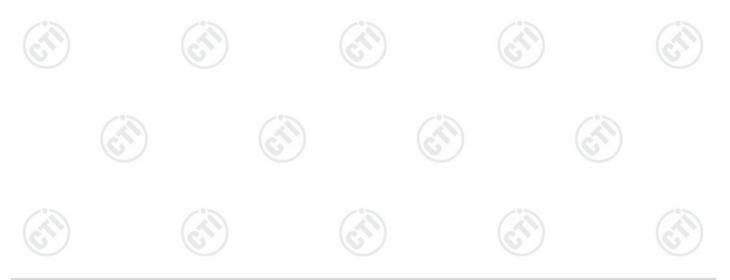






7.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	6	
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3m	(Semi-Anech	noic Cham	ber)	-61
Receiver Setup:	Frequency	1	Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz		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
	Ah 4011-		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10kHz	Average	
Limit:	Frequency	l	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-/%	300
	0.490MHz-1.705MHz	24	000/F(kHz)	-	(()	30
	1.705MHz-30MHz		30	-	-6	30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz		150	43.5	Quasi-peak	3
	216MHz-960MHz	9	200	46.0	Quasi-peak	3
	960MHz-1GHz	1	500	54.0	Quasi-peak	3
	Above 1GHz		500	54.0	Average	3
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rad	20d quip	B above the i	maximum est. This p	permitted ave	erage emission







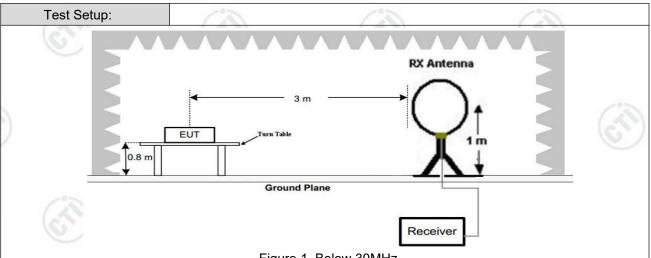
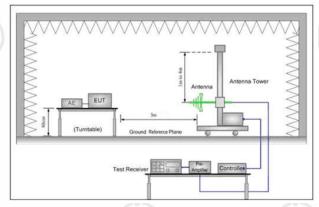


Figure 1. Below 30MHz



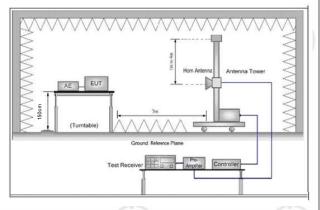


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

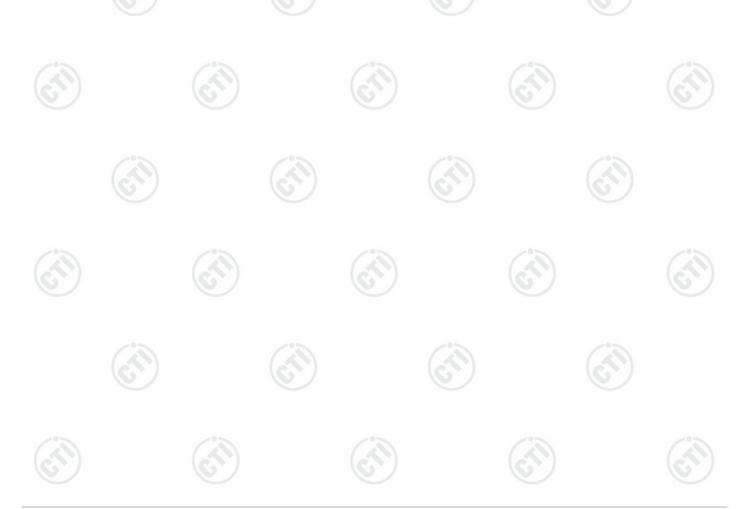
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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



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Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	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.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	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.
	Bandwidth with Maximum Hold Mode.
	 horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified

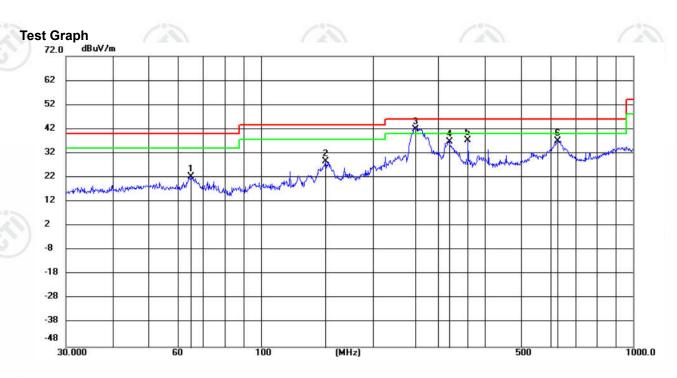




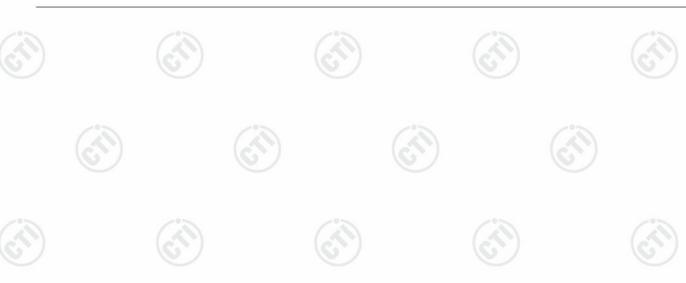


Radiated Spurious Emission below 1GHz:

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.

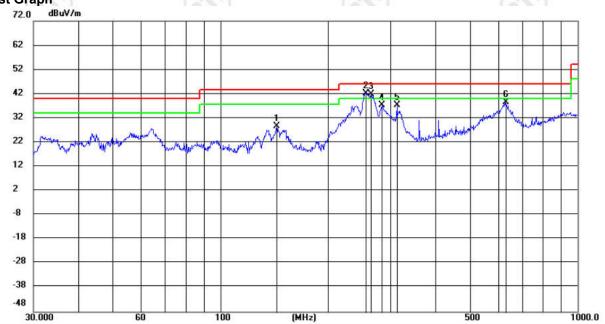


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		65.1144	9.49	12.85	22.34	40.00	-17.66	QP	200	134	
2		149.4857	17.02	11.53	28.55	43.50	-14.95	QP	200	278	
3	*	260.1444	26.56	15.26	41.82	46.00	-4.18	QP	100	306	
4		321.0608	19.75	17.15	36.90	46.00	-9.10	QP	100	59	
5		360.4476	19.74	17.72	37.46	46.00	-8.54	QP	100	264	
6		627.2737	14.41	22.77	37.18	46.00	-8.82	QP	100	4	









No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		143.8295	17.57	11.00	28.57	43.50	-14.93	QP	100	73	
2	*	254.7284	27.24	15.06	42.30	46.00	-3.70	QP	200	51	
3	Ţ	264.7457	26.48	15.45	41.93	46.00	-4.07	QP	100	136	
4		282.9852	21.12	16.18	37.30	46.00	-8.70	QP	100	356	
5		312.1794	20.32	17.02	37.34	46.00	-8.66	QP	100	356	
6		627.2738	15.82	22.77	38.59	46.00	-7.41	QP	100	259	







































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Radiated Spurious Emission above 1GHz:

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

Mode	:		802.11 b Tran	smitting		Channe	el:	2412MH	Z
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1116.4116	0.84	41.39	42.23	74.00	31.77	PASS	Н	PK
2	1690.4690	2.88	40.16	43.04	74.00	30.96	PASS	Н	PK
3	4824.1216	-16.22	2 62.71	46.49	74.00	27.51	PASS	Н	PK
4	7756.3171	-11.23	3 52.45	41.22	74.00	32.78	PASS	Н	PK
5	12494.6330	-4.82	51.54	46.72	74.00	27.28	PASS	Н	PK
6	16309.8873	1.51	49.32	50.83	74.00	23.17	PASS	Н	PK
7	1169.4169	0.82	41.79	42.61	74.00	31.39	PASS	V	PK
8	1891.4891	3.97	39.52	43.49	74.00	30.51	PASS	V	PK
9	4824.1216	-16.22	2 65.90	49.68	74.00	24.32	PASS	V	PK
10	7272.2848	-11.73	52.13	40.40	74.00	33.60	PASS	V	PK
11	10242.4828	-6.85	51.35	44.50	74.00	29.50	PASS	V	PK
12	12388.6259	-4.81	52.05	47.24	74.00	26.76	PASS	V	PK

Mode	:		802.11 b Tran	smitting		Channe	el:	2437MH:	Z
NO	Freq. [MHz]	Facto [dB]	Dooding	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1206.6207	0.82	41.16	41.98	74.00	32.02	PASS	Н	PK
2	1835.8836	3.55	40.23	43.78	74.00	30.22	PASS	Н	PK
3	4874.1249	-16.2	1 62.65	46.44	74.00	27.56	PASS	Н	PK
4	6327.2218	-12.9	0 53.61	40.71	74.00	33.29	PASS	Н	PK
5	9781.4521	-7.44	50.61	43.17	74.00	30.83	PASS	Н	PK
6	12562.6375	-4.38	50.60	46.22	74.00	27.78	PASS	Н	PK
7	1187.2187	0.81	41.35	42.16	74.00	31.84	PASS	V	PK
8	1985.2985	4.47	39.58	44.05	74.00	29.95	PASS	V	PK
9	4874.1249	-16.2	1 63.73	47.52	74.00	26.48	PASS	V	PK
10	7310.2874	-11.6	7 53.70	42.03	74.00	31.97	PASS	V	PK
11	10787.5192	-6.26	50.74	44.48	74.00	29.52	PASS	V	PK
12	12499.6333	-4.83	51.21	46.38	74.00	27.62	PASS	V	PK













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	7.07			/ 487				10.			
	Mode	:		802.11	b Tran	nsmitting		Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Facto [dB]	Re	ading BµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
0.1	1	1233.6234	0.89	4	1.16	42.05	74.00	31.95	PASS	Н	PK
6	2	1643.6644	2.57	39	9.89	42.46	74.00	31.54	PASS	Н	PK
	3	4924.1283	-16.11	l 62	2.21	46.10	74.00	27.90	PASS	Н	PK
	4	7386.2924	-11.53	3 54	1.94	43.41	74.00	30.59	PASS	Н	PK
	5	11248.549	-6.53	5	1.66	45.13	74.00	28.87	PASS	Н	PK
	6	13692.712	-1.76	49	9.41	47.65	74.00	26.35	PASS	Н	PK
	7	1133.2133	0.83	4	1.80	42.63	74.00	31.37	PASS	V	PK
	8	1931.6932	4.19	39	9.31	43.50	74.00	30.50	PASS	V	PK
	9	4924.1283	-16.11	l 6 ²	1.23	45.12	74.00	28.88	PASS	V	PK
	10	7385.2924	-11.54	1 55	5.70	44.16	74.00	29.84	PASS	V	PK
9	11	12575.638	-4.29	50	0.70	46.41	74.00	27.59	PASS	V	PK
0	12	14412.760	1.04	47	7.58	48.62	74.00	25.38	PASS	V	PK

	Mode	:		802.	11 n(HT40)) Transmitting		Channe	el:	2422MHz	
	NO	Freq. [MHz]	Facto [dB]	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1274.0274	0.99		40.65	41.64	74.00	32.36	PASS	Н	PK
7	2	1995.2995	4.53		39.24	43.77	74.00	30.23	PASS	Н	PK
	3	4282.0855	-17.3	7	55.06	37.69	74.00	36.31	PASS	Н	PK
	4	6408.2272	-12.8	5	53.24	40.39	74.00	33.61	PASS	Н	PK
	5	10313.4876	-6.44		49.69	43.25	74.00	30.75	PASS	Н	PK
	6	14314.7543	-0.20)	48.89	48.69	74.00	25.31	PASS	Н	PK
	7	1220.8221	0.85		41.28	42.13	74.00	31.87	PASS	V	PK
	8	1937.4937	4.22		39.51	43.73	74.00	30.27	PASS	V	PK
Ī	9	3818.0545	-19.2°	1	53.85	34.64	74.00	39.36	PASS	V	PK
	10	6740.2494	-12.4	5	52.38	39.93	74.00	34.07	PASS	V	PK
	11	8786.3858	-9.55	;	50.95	41.40	74.00	32.60	PASS	V	PK
3	12	12585.6390	-4.21		50.21	46.00	74.00	28.00	PASS	V	PK













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		100		-0-		505				
ı	Mode	:		802.11 n(HT40) Transmitting		Channe	el:	2437MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1241.2241	0.91	40.76	41.67	74.00	32.33	PASS	Н	PK
3	2	2001.3001	4.55	39.90	44.45	74.00	29.55	PASS	Н	PK
	3	4604.1069	-16.70	54.55	37.85	74.00	36.15	PASS	Н	PK
	4	7451.2968	-11.29	52.51	41.22	74.00	32.78	PASS	Н	PK
	5	10113.4742	-7.02	49.82	42.80	74.00	31.20	PASS	Н	PK
	6	13726.7151	-1.73	48.97	47.24	74.00	26.76	PASS	Н	PK
	7	1170.8171	0.81	41.70	42.51	74.00	31.49	PASS	V	PK
	8	1772.8773	3.19	40.55	43.74	74.00	30.26	PASS	V	PK
	9	4985.1323	-15.88	53.58	37.70	74.00	36.30	PASS	V	PK
	10	7274.2850	-11.73	52.79	41.06	74.00	32.94	PASS	V	PK
	11	9038.4026	-8.55	51.96	43.41	74.00	30.59	PASS	V	PK
6	12	11850.5900	-5.97	51.96	45.99	74.00	28.01	PASS	V	PK

Mode):		802.11 n(HT40)) Transmitting		Channe	el:	2452MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1297.0297	1.05	40.55	41.60	74.00	32.40	PASS	Н	PK
2	1750.8751	3.11	40.53	43.64	74.00	30.36	PASS	Н	PK
3	4449.0966	-17.00	54.74	37.74	74.00	36.26	PASS	Н	PK
4	6789.2526	-12.42	52.16	39.74	74.00	34.26	PASS	Н	PK
5	9173.4116	-8.10	51.09	42.99	74.00	31.01	PASS	Н	PK
6	14404.7603	1.15	46.82	47.97	74.00	26.03	PASS	Н	PK
7	1188.4188	0.81	41.23	42.04	74.00	31.96	PASS	V	PK
8	1864.8865	3.77	39.31	43.08	74.00	30.92	PASS	V	PK
9	4627.1085	-16.67	54.66	37.99	74.00	36.01	PASS	V	PK
10	6345.2230	-12.89	52.75	39.86	74.00	34.14	PASS	V	PK
11	11400.5600	-6.13	51.21	45.08	74.00	28.92	PASS	V	PK
12	14398.7599	1.20	47.67	48.87	74.00	25.13	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 + 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.







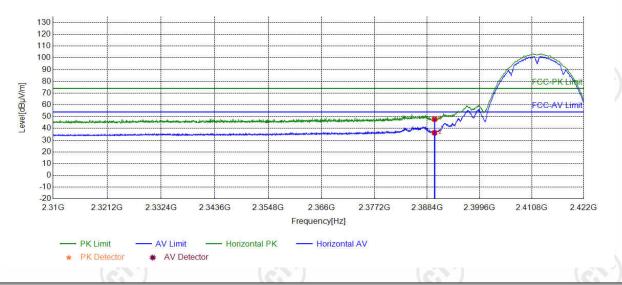




Restricted bands:

Test plot as follows:

Mode:	802.11 b Transmitting	Channel:	2412
Remark:	5		



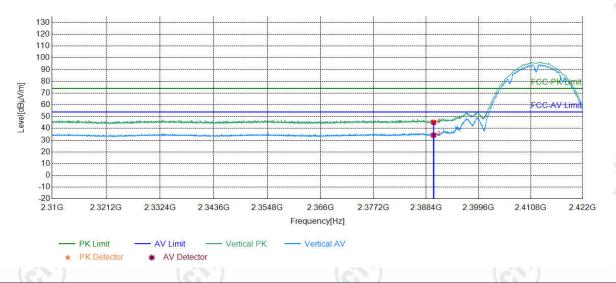
	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Г	1	2390.0000	5.77	42.08	47.85	74.00	26.15	PASS	Horizontal	PK
	2	2390.0000	5.77	30.51	36.28	54.00	17.72	PASS	Horizontal	AV





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Mode:	802.11 b Transmitting	Channel:	2412
Remark:		- 1.1	



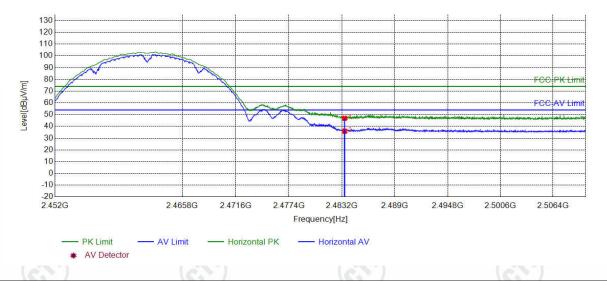
	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	39.40	45.17	74.00	28.83	PASS	Vertical	PK
	2	2390.0000	5.77	28.49	34.26	54.00	19.74	PASS	Vertical	AV



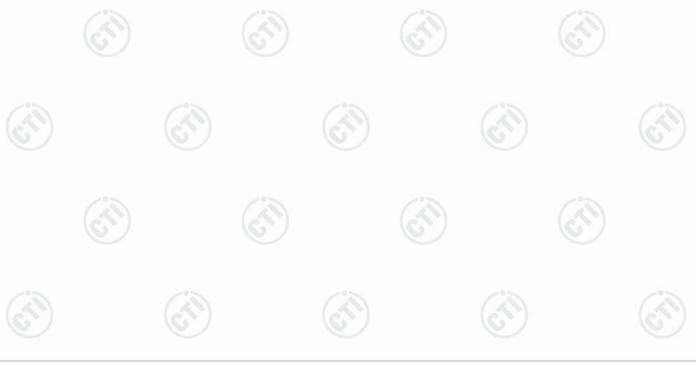


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Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



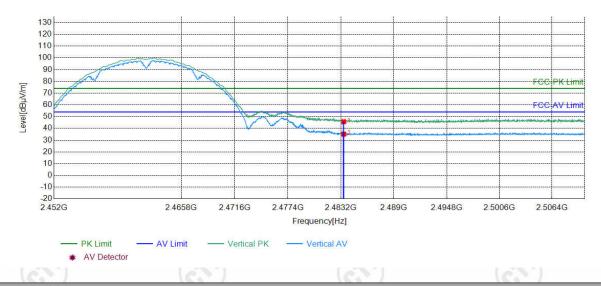
Suspe	cted List								
 NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.34	46.91	74.00	27.09	PASS	Horizontal	PK
2	2483.5000	6.57	29.35	35.92	54.00	18.08	PASS	Horizontal	AV





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Mode:	802.11 b Transmitting	Channel:	2462
Remark:			



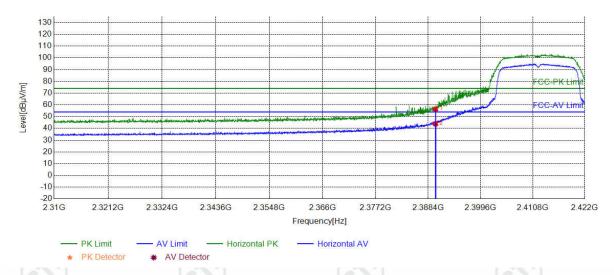
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.16	45.73	74.00	28.27	PASS	Vertical	PK
2	2483.5000	6.57	28.56	35.13	54.00	18.87	PASS	Vertical	AV





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Mode:	802.11 g Transmitting	Channel: 2412				
Remark:						



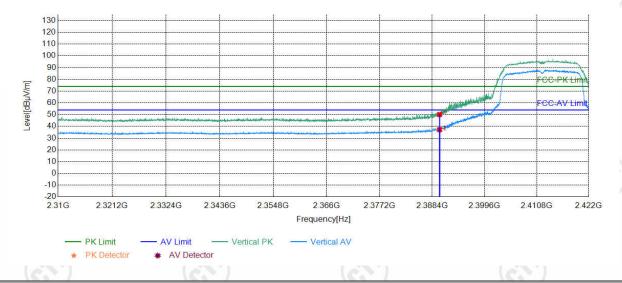
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2390.0000	5.77	50.58	56.35	74.00	17.65	PASS	Horizontal	PK
	2	2390.0000	5.77	38.15	43.92	54.00	10.08	PASS	Horizontal	AV







Mode:	802.11 g Transmitting	Channel:	: 2412
Remark:	5.50		



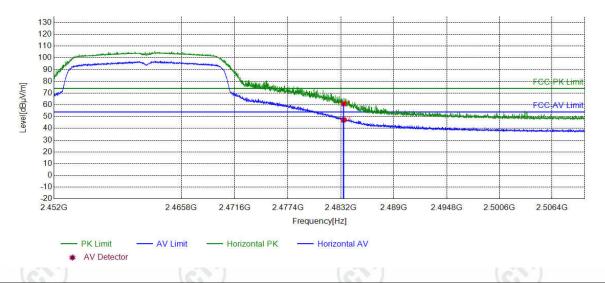
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1	2390.0000	5.77	44.34	50.11	74.00	23.89	PASS	Vertical	PK
	2	2390.0000	5.77	31.47	37.24	54.00	16.76	PASS	Vertical	AV





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Mode:	802.11 g Transmitting	Channel:	2462
Remark:			



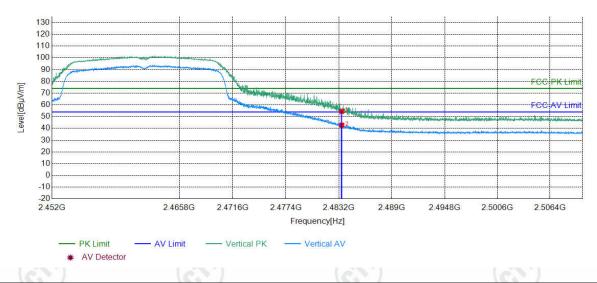
	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	54.55	61.12	74.00	12.88	PASS	Horizontal	PK
	2	2483.5000	6.57	40.68	47.25	54.00	6.75	PASS	Horizontal	AV



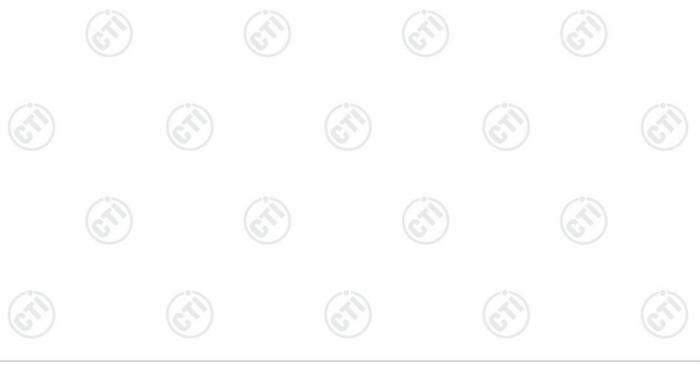




Mode:	802.11 g Transmitting	Channel	2462
Remark:			



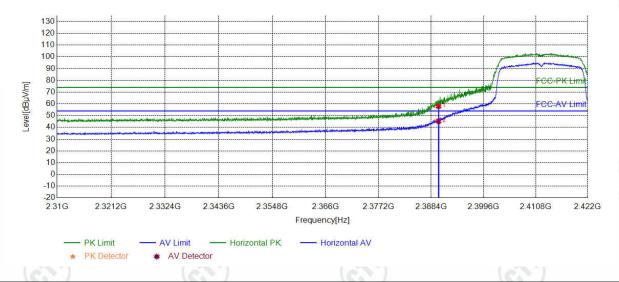
	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2483.5000	6.57	47.93	54.50	74.00	19.50	PASS	Vertical	PK
	2	2483.5000	6.57	36.17	42.74	54.00	11.26	PASS	Vertical	AV







A 1	16.5	St. 16. 1	15.4
Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:			



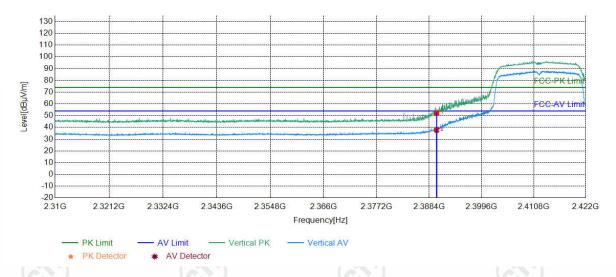
Suspe	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	52.19	57.96	74.00	16.04	PASS	Horizontal	PK
2	2390.0000	5.77	39.46	45.23	54.00	8.77	PASS	Horizontal	AV



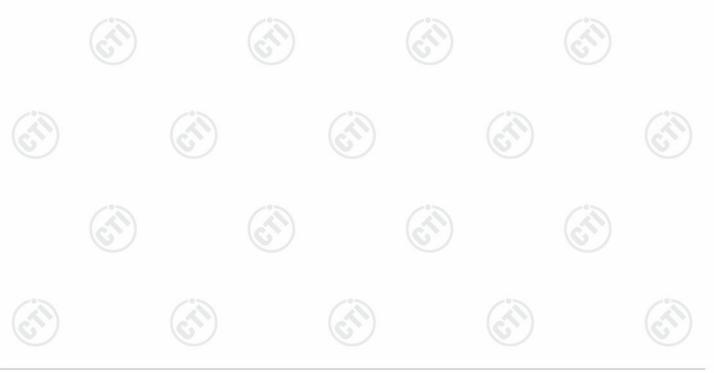


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Mode:	802.11 n(HT20) Transmitting	Channel:	2412
Remark:			



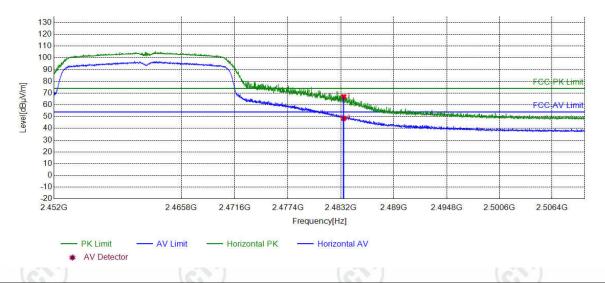
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2390.0000	5.77	46.32	52.09	74.00	21.91	PASS	Vertical	PK
	2	2390.0000	5.77	31.88	37.65	54.00	16.35	PASS	Vertical	AV



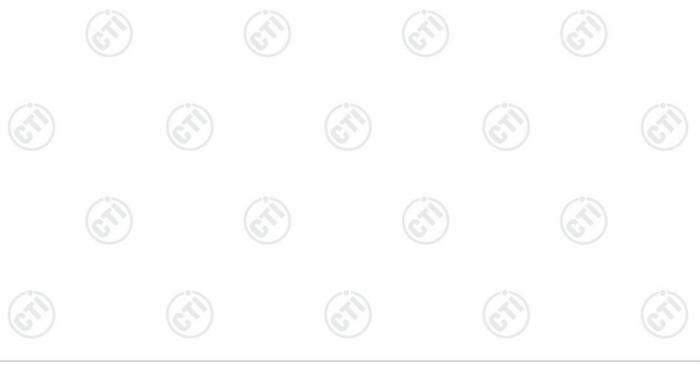




Mode:	802.11 n(HT20) Transmitting	Channel:	2462
Remark:			



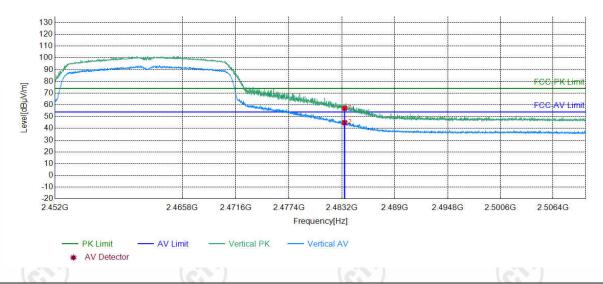
	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	60.37	66.94	74.00	7.06	PASS	Horizontal	PK
	2	2483.5000	6.57	41.97	48.54	54.00	5.46	PASS	Horizontal	AV







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



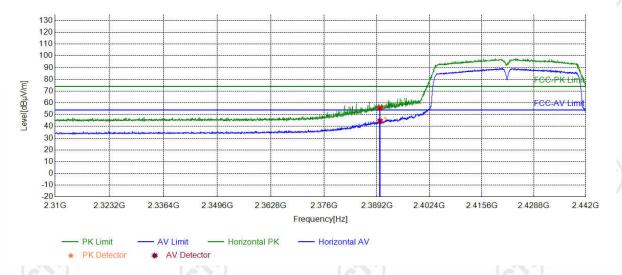
	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2483.5000	6.57	50.61	57.18	74.00	16.82	PASS	Vertical	PK
	2	2483.5000	6.57	38.32	44.89	54.00	9.11	PASS	Vertical	AV



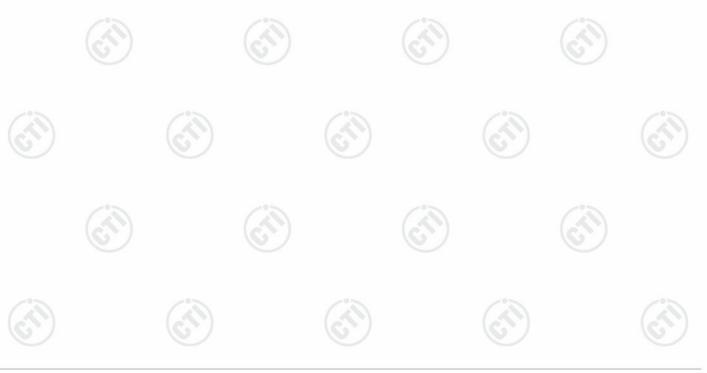




Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



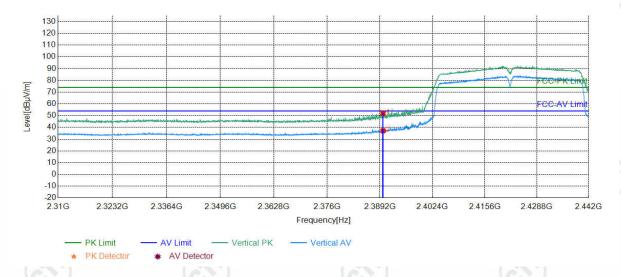
	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2390.0000	5.77	49.83	55.60	74.00	18.40	PASS	Horizontal	PK
	2	2390.0000	5.77	38.78	44.55	54.00	9.45	PASS	Horizontal	AV



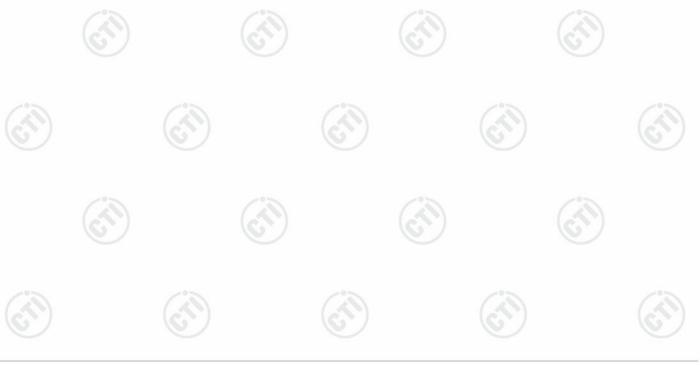


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Mode:	802.11 n(HT40) Transmitting	Channel:	2422
Remark:			



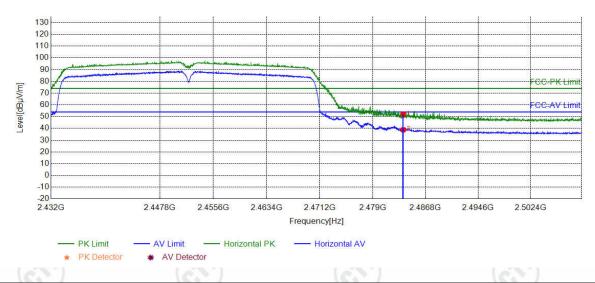
	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	46.27	52.04	74.00	21.96	PASS	Vertical	PK
	2	2390.0000	5.77	31.37	37.14	54.00	16.86	PASS	Vertical	AV







Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	2400		



	Suspected List									
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	2483.5000	6.57	45.38	51.95	74.00	22.05	PASS	Horizontal	PK
	2	2483.5000	6.57	32.24	38.81	54.00	15.19	PASS	Horizontal	AV

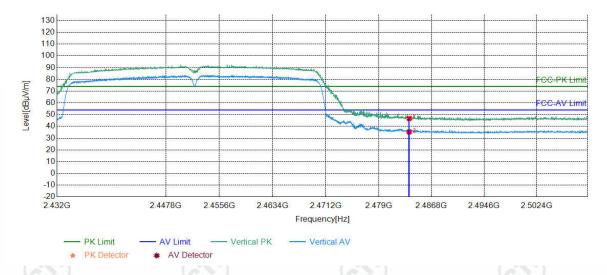




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Mode:	802.11 n(HT40) Transmitting	Channel:	2452
Remark:	~		

Test Graph



	Suspected List									
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	40.15	46.72	74.00	27.28	PASS	Vertical	PK
	2	2483.5000	6.57	28.78	35.35	54.00	18.65	PASS	Vertical	AV

Note:

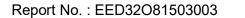
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor











8 Appendix A

Refer to Appendix: 2.4G WIFI of module 1 of EED32O81503003.





























































































