





Product INTELLIGENT AUTOMOTIVE DIAGNOSTIC

ANALYZER,

INTELLIGENT KEY PROGRAMMING TOOL

Trade mark **OTOFIX**

Model/Type reference D1 Lite, D1, IM1

Serial Number N/A

Report Number EED32M80160303 **FCC ID** WQ8MAXIBASBT609

Date of Issue Feb. 25, 2021

Test Standards 47 CFR Part 15 Subpart C

Test result PASS

Prepared for:

Autel Intelligent Tech. Corp., Ltd. 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, 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

David Wang Report Seal

Reviewed by:

Date:

Acron Ma Aaron Ma

Feb. 25, 2021

David Wang

Check No.:7427291220













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3 Version

Version No.	Date	Description				
00	Feb. 25, 2021		Original			
	200	/°>	78	/05		
		(c ²)	(6,4,2)	(6/2)		











































































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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.

Model No.: D1 Lite, D1, IM1

Three models are the same except model name since the applicant changed for different market and customer, Only the model IM1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models.





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5 General Information

5.1 Client Information

Applicant:	Autel Intelligent Tech. Corp., Ltd.
Address of Applicant:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan,Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, China
Manufacturer:	Autel Intelligent Tech. Corp., Ltd.
Address of Manufacturer:	7th-8th, 10th Floor, Bldg. B1, Zhiyuan,Xueyuan Rd. Xili, Nanshan, Shenzhen, 518055, China
Factory 1:	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Address of Factory 1:	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen
Factory 2:	AUTEL VIETNAM COMPANY LIMITED
Address of Factory 2:	4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, Viet Nam

5.2 General Description of EUT

Product Name:	INTELLIGENT AUTOMOTIVE DIAGNOSTIC ANALYZER, INTELLIGENT KEY PROGRAMMING TOOL					
Model No.:	IM1	940	Name of the Control o			
Add Model No.:	D1 Lite, D1					
Trade mark:	OTOFIX	(0)	0.			
Product Type:	☐ Mobile ⊠ Por	table Fix Location				
Operation Frequency:		T20): 2412MHz to 2462MHz): 2422MHz to 2452MHz	7'5			
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK					
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels					
Channel Separation:	5MHz					
Antenna Type:	FPC antenna					
Antenna Gain:	3.8dBi					
Power Supply:	SWITCHING AC/DC POWER ADAPTER	MODEL:GME10C-050200FUu INPUT:100-240V~,50/60Hz ,0.28A OUTPUT:5V2A,10W	(A)			
	Battery	Model: TB2021 Capacity: 5800mAh/22.33Wh Nominal Voltage: 3.85V	0			
Test Voltage:	Battery 3.85V	40%	-11-			
Sample Received Date:	Dec. 29, 2020		(41)			
Sample tested Date:	Dec. 29, 2020 to Feb. 25, 2021					













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		700	_	200	4		/15	
Operation	Frequency ea	ch of chann	el (802.11b/g/n	HT20)	b)		(3)	•)
Channel	Frequency	Channel	Frequency	Channel	Freq	uency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442	2MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447	7MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz			(6)
Operation	Frequency ea	ch of chann	el (802.11n HT	40)				
Channe	l Frequ	ency	Channel	Frequenc	су	Chan	nel	Frequency
3	2422	MHz	6	2437MH	z	9	13	2452MHz
4	2427	MHz	7	2442MH	z			

2447MHz

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)

2432MHz

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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5.3 Test Configuration

EUT Test Software Setti	EUT Test Software Settings:							
Software:	CMD	400	-0-					
EUT Power Grade:	Default	(40)						
Llas tost software to get th	a lawast fraguancy the middle fr	aguanay and the highest frequenc	u koon					

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
802.11rg 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	Operating Environment:									
	Radiated Spurious Emissions:										
	Temperature:	22~25.0 °C									
	Humidity:	50~55 % RH	100		10		/°				
P)	Atmospheric Pressure:	1010mbar	(3)		(65)		(6.5)				
	Conducted Emissions:										
	Temperature:	22~25.0 °C									
	Humidity:	50~55 % RH				345					
	Atmospheric Pressure:	1010mbar				(35)					
	RF Conducted:										
	Temperature:	22~25.0 °C									
	Humidity:	50~55 % RH									
	Atmospheric Pressure:	1010mbar	(3)		(1)		(3)				
100							1 - 1				





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5.5 Description of Support Units

The EUT has been tested with associated equipment below.

	ociated nent name	Manufacture	model	S/N serial number	Supplied by	Certification
AE	Notebook	DELL	DELL 3490	D245DX2	DELL	CE&FCC

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

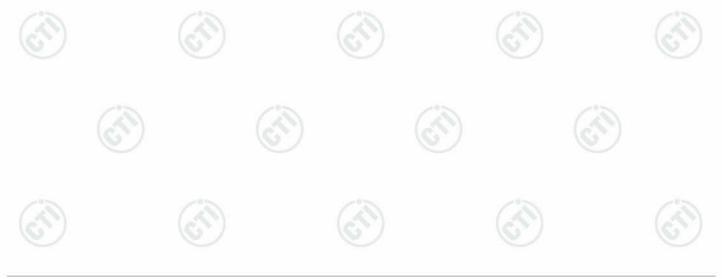
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	DE newer conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-18GHz)	
(1)		3.3dB (9kHz-30MHz)	
3	Dadiated Shuriana emission test	4.3dB (30MHz-1GHz)	
	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%	
0.70	[8.3]		





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6 Equipment List

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	04-28-2020	04-27-2021	
Temperature/ Humidity Indicator	Defu	TH128	/	67	(6)	
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021	
Barometer	changchun	DYM3	1188			

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020 02-16-2021	02-16-2021 02-15-2022
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020 02-16-2021	02-16-2021 02-15-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-29-2020	06-28-2021
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	(A)	- ((i
High-pass filter	MICRO- TRONICS	SPA-F-63029-4			
DC Power	Keysight	E3642A	MY56376072	02-17-2020 02-16-2021	02-16-2021 02-15-2022
PC-1	Lenovo	R4960d			- (4)
Power unit	R&S	OSP120	101374	02-17-2020 02-16-2021	02-16-2021 02-15-2022
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020 02-16-2021	02-16-2021 02-15-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	(4)	- (<u> </u>

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	05-16-2020	05-15-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-16-2020	10-15-2021
Multi device Controller	maturo	NCD/070/10711 112			<u> </u>
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
Cable line	Fulai(7M)	SF106	5219/6A	/ " To -	/**
Cable line	Fulai(6M)	SF106	5220/6A	(2)	(25
Cable line	Fulai(3M)	SF106	5216/6A	(O)	(0)
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	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS- LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-09-2020 01-08-2021	01-08-2021 01-07-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	(3)	01-17-2018 01-09-2021	01-16-2021 01-08-2024
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		<u> </u>
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002		
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003		(
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001	(0.7)	16
Cable line	Times	EMC104-NMNM- 1000	SN160710		
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		- C
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001		(S)
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		























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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:

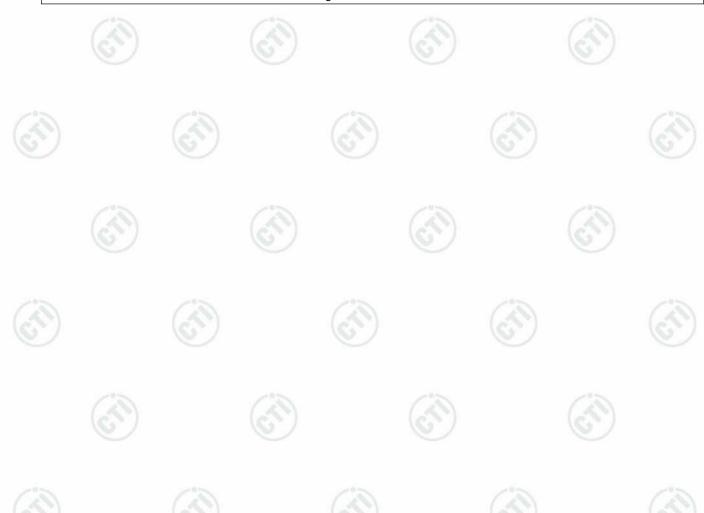
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 3.85dBi.





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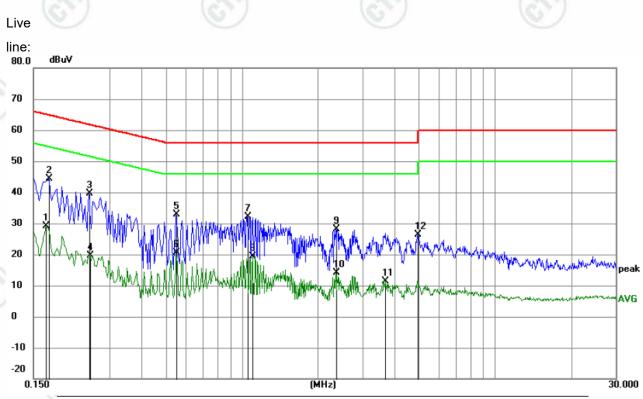
7.2 AC Power Line Conducted Emissions

			///3 - /		
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sy	veep time=auto	200		
Limit:	Frequency range (MHz)	Limit (d Quasi-peak	BuV) Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm		(3)		
Test Setup:	Shielding Room	AE LISN2 → AC Main Ground Reference Plane	Test Receiver		
Test Procedure:	 The mains terminal disturbation. The EUT was connected Impedance Stabilization Neimpedance. The power of connected to a second LISI plane in the same way as multiple socket outlet strip visingle LISN provided the ration of the tabletop EUT was placed ground reference plane. An placed on the horizontal ground reference plane. The LISN unit under test and bond mounted on top of the ground the closest points of the LI and associated equipment of the light of the interface cable ANSI C63.10: 2013 on condition. 	to AC power source etwork) which provides cables of all other N 2, which was bonders the LISN 1 for the was used to connect ring of the LISN was noted upon a non-metal and for floor-standing and for floor-standing and reference plane. In a vertical ground reference was bonded 1 was placed 0.8 m and the EUT. A was at least 0.8 m from emission, the relatives must be changed a	through a LISN 1 (List a 50Ω/50μH + 5Ω line units of the EUT we do to the ground reference unit being measured. It is table 0.8m above the trangement, the EUT we derence plane. The rearing reference plane. The rearing the horizontal group from the boundary of the terence plane for LIS his distance was between the LISN 2. The total propositions of equipments at 50Ω and 10Ω and 10		
Test Mode:	All modes were tested, only the 802.11b was recorded in the re		nannel of 1Mbps for		
Test Results:	Pass				
	7.5	7.5	703		



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Measurement Data



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1680	19.22	9.87	29.09	55.06	-25.97	AVG	
2	*	0.1725	34.55	9.87	44.42	64.84	-20.42	peak	
3		0.2490	29.54	9.97	39.51	61.79	-22.28	peak	
4		0.2508	9.59	9.97	19.56	51.73	-32.17	AVG	
5		0.5505	22.99	10.01	33.00	56.00	-23.00	peak	
6		0.5505	10.74	10.01	20.75	46.00	-25.25	AVG	
7		1.0500	22.34	9.83	32.17	56.00	-23.83	peak	
8		1.1040	9.45	9.83	19.28	46.00	-26.72	AVG	
9		2.3460	18.39	9.79	28.18	56.00	-27.82	peak	
10		2.3460	4.45	9.79	14.24	46.00	-31.76	AVG	
11		3.6915	1.66	9.78	11.44	46.00	-34.56	AVG	
12		4.9605	16.68	9.78	26.46	56.00	-29.54	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.







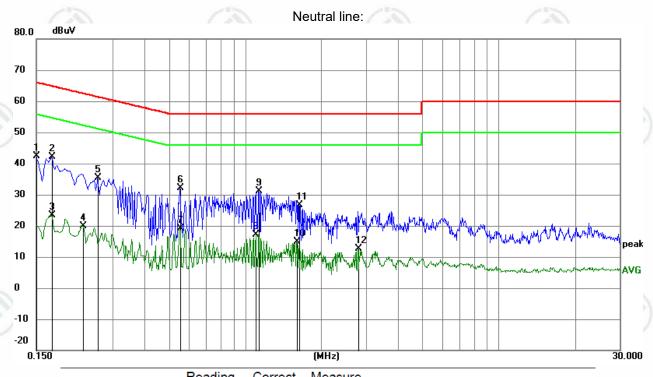












No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	32.51	9.87	42.38	66.00	-23.62	peak	
2	*	0.1725	32.37	9.87	42.24	64.84	-22.60	peak	
3		0.1725	13.52	9.87	23.39	54.84	-31.45	AVG	
4		0.2280	10.07	9.93	20.00	52.52	-32.52	AVG	
5		0.2625	25.48	10.00	35.48	61.35	-25.87	peak	
6		0.5550	22.01	10.02	32.03	56.00	-23.97	peak	
7		0.5550	9.01	10.02	19.03	46.00	-26.97	AVG	
8		1.1040	7.31	9.83	17.14	46.00	-28.86	AVG	
9		1.1310	21.32	9.82	31.14	56.00	-24.86	peak	
10		1.5990	5.02	9.81	14.83	46.00	-31.17	AVG	
11		1.6305	16.94	9.80	26.74	56.00	-29.26	peak	
12		2.7869	2.76	9.79	12.55	46.00	-33.45	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.















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:	
	Control Composite Power Supply Power Supply Table RF test System System Instrument Table
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 A



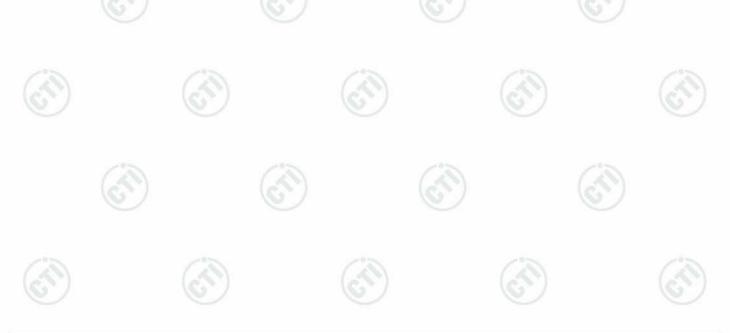
 $Hot line: 400-6788-333 \\ www.cti-cert.com \\ E-mail: info@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint Call: 0755-33681700 \\ Call: 0$



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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 Control Power Supply Power Supply Table RF test System Instrument 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 A				

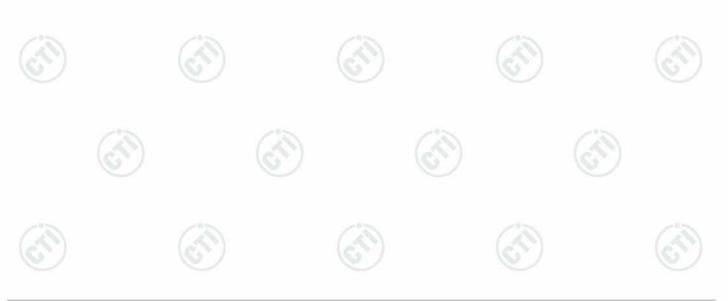




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7.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10 2013	\cdot\(\dot\)	
Test Setup:			
	Control Computer Power Supply Power TemPERATURE CABNET Table	RF test System Instrument	
	Remark: Offset=Cable loss+ attenua	ation factor.	
Test Procedure:	within the RBW.	bandwidth.	
Limit:	≤8.00dBm/3kHz	- 9	
Test Mode:	Refer to clause 5.3	(45)	
Test Results:	Refer to Appendix A		

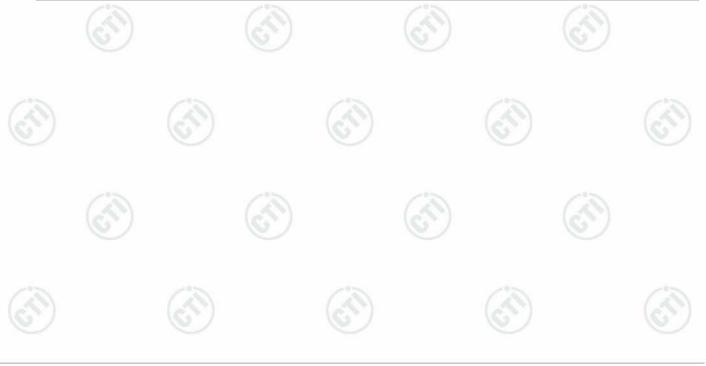




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7.6 Band Edge Measurements and Conducted Spurious Emission

	•
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Contro
	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 A









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7.7 Radiated Spurious Emission & Restricted bands

Test Red	quirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	(6)	/
Test Met	hod:	ANSI C63.10 2013					
Test Site	:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	-0.5
Receiver	Setup:	Frequency	10	Detector	RBW	VBW	Remark
		0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
		0.009MHz-0.090MH	lz	Average	10kHz	30kHz	Average
		0.090MHz-0.110MH	lz	Quasi-peak	10kHz	30kHz	Quasi-peak
		0.110MHz-0.490MH	lz	Peak	10kHz	30kHz	Peak
		0.110MHz-0.490MH	lz	Average	10kHz	30kHz	Average
		0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
		30MHz-1GHz	30MHz-1GHz Quasi-peak 100 k		100 kH	z 300kHz	Quasi-peak
		Above 1GHz	2/	Peak	1MHz	3MHz	Peak
		Above IGHZ	~)	Peak	1MHz	10kHz	Average
Limit:		Frequency	1	eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m
		0.009MHz-0.490MHz	2	400/F(kHz)	-		300
		0.490MHz-1.705MHz	24	1000/F(kHz)	-	(4)	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	10	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 epeak emission level rad	20c equip	dB above the oment under t	maximum est. This p	permitted av	erage emission



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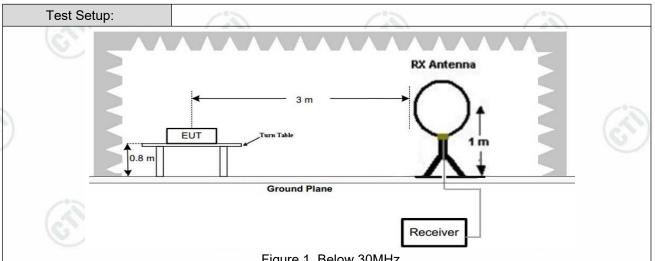
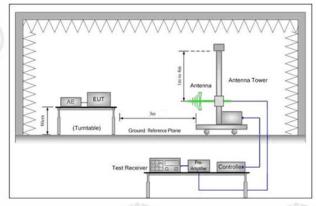


Figure 1. Below 30MHz



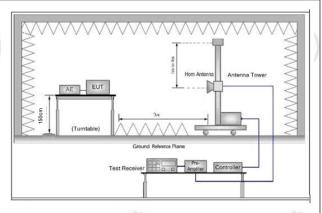


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 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
 - 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.

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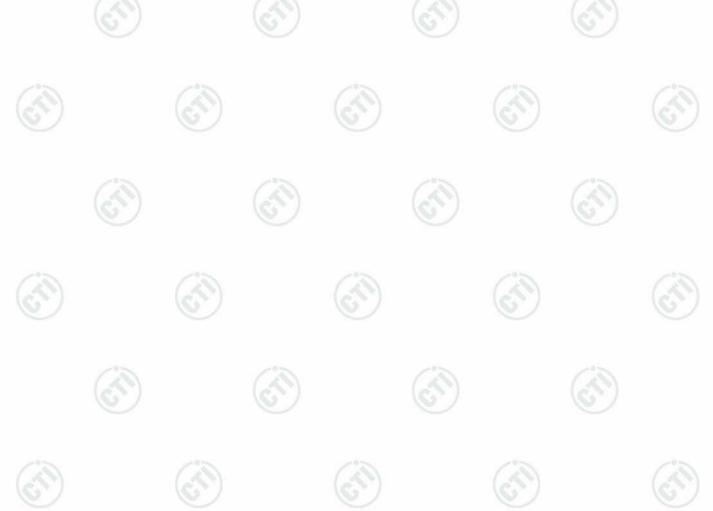






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Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning 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.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	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.
	horizontal and vertical polarizations of the antenna are set to make the measurement.

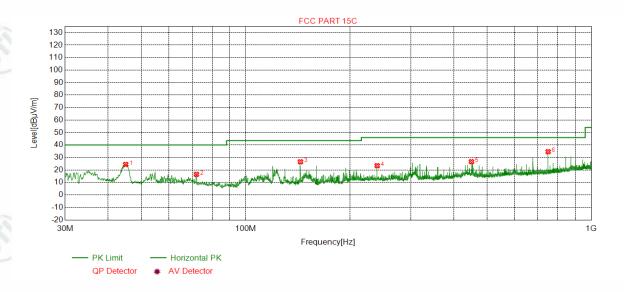




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Radiated Spurious Emission below 1GHz:

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



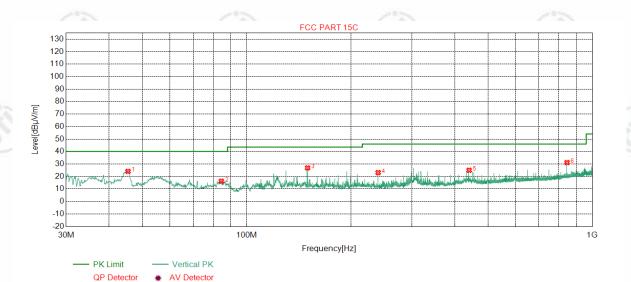
NO Freq. [MHz] Ant Cable Pream gain [dB] Reading Level Limit Margin [dBμV/m] [dBμV/m] [dBμV/m] Result Polarit	Remark
tand tand	
1 44.9395 13.19 0.75 -31.71 42.20 24.43 40.00 15.57 Pass H	PK
2 72.0052 8.62 0.97 -32.02 38.93 16.50 40.00 23.50 Pass H	PK
3 143.9864 7.34 1.41 -31.99 49.82 26.58 43.50 16.92 Pass H	PK
4 240.0260 11.94 1.84 -31.90 41.56 23.44 46.00 22.56 Pass H	PK
5 449.9550 16.20 2.51 -31.89 39.85 26.67 46.00 19.33 Pass H	PK
6 750.0060 20.35 3.29 -32.04 43.06 34.66 46.00 11.34 Pass H	PK











Ġ	Mode:			802.11 r	n(HT20) Tr	ansmitting			Channel:		2437MHz	
	NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	45.3275	13.20	0.75	-31.73	41.89	24.11	40.00	15.89	Pass	V	PK
	2	84.4224	8.12	1.06	-31.99	39.04	16.23	40.00	23.77	Pass	V	PK
	3	150.0010	7.55	1.45	-32.01	49.89	26.88	43.50	16.62	Pass	V	PK
	4	240.0260	11.94	1.84	-31.90	41.24	23.12	46.00	22.88	Pass	V	PK
	5	439.9630	16.04	2.48	-31.88	38.36	25.00	46.00	21.00	Pass	V	PK
	6	844.9785	21.44	3.50	-31.82	38.04	31.16	46.00	14.84	Pass	V	PK







Radiated Spurious Emission above 1GHz:

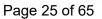
Mod	э:		802.11	b Transm	nitting			Channe	el:	2412MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1125.8126	28.03	2.63	-42.97	50.52	38.21	74.00	35.79	Pass	Н	PK
2	1693.6694	29.68	3.19	-42.67	49.66	39.86	74.00	34.14	Pass	Н	PK
3	2253.5254	32.05	3.79	-43.14	49.68	42.38	74.00	31.62	Pass	Н	PK
4	3303.0202	33.32	4.58	-43.10	49.01	43.81	74.00	30.19	Pass	Н	PK
5	5020.1347	34.52	4.84	-42.79	50.41	46.98	74.00	27.02	Pass	Н	PK
6	7476.2984	36.58	5.91	-42.11	49.13	49.51	74.00	24.49	Pass	Н	PK
7	1190.4190	28.09	2.67	-42.90	50.19	38.05	74.00	35.95	Pass	V	PK
8	1996.4997	31.68	3.47	-43.20	52.80	44.75	74.00	29.25	Pass	V	PK
9	3809.0539	33.65	4.37	-43.04	49.98	44.96	74.00	29.04	Pass	V	PK
10	5034.1356	34.53	4.86	-42.78	50.63	47.24	74.00	26.76	Pass	V	PK
11	6365.2243	35.87	5.41	-42.52	49.70	48.46	74.00	25.54	Pass	V	PK
12	8476.3651	36.59	6.45	-42.01	49.30	50.33	74.00	23.67	Pass	V	PK

Mode:			802.11	b Transmit	ting			Channel		2437MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cabl e loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1131.6132	28.03	2.64	-42.96	50.95	38.66	74.00	35.34	Pass	Н	PK
2	1738.8739	29.98	3.22	-42.68	49.27	39.79	74.00	34.21	Pass	Н	PK
3	2435.5436	32.31	3.96	-43.12	51.41	44.56	74.00	29.44	Pass	Н	PK
4	3497.0331	33.40	4.49	-43.10	49.46	44.25	74.00	29.75	Pass	Н	PK
5	4997.1331	34.50	4.82	-42.80	50.30	46.82	74.00	27.18	Pass	Н	PK
6	7353.2902	36.45	5.85	-42.13	49.13	49.30	74.00	24.70	Pass	Н	PK
7	1191.4191	28.09	2.67	-42.90	50.25	38.11	74.00	35.89	Pass	V	PK
8	1792.4792	30.33	3.31	-42.71	52.44	43.37	74.00	30.63	Pass	V	PK
9	3188.0125	33.28	4.63	-43.10	49.09	43.90	74.00	30.10	Pass	V	PK
10	5030.1353	34.53	4.86	-42.79	50.29	46.89	74.00	27.11	Pass	V	PK
11	6101.2067	35.82	5.26	-42.58	49.25	47.75	74.00	26.25	Pass	V	PK
12	7297.2865	36.40	5.85	-42.15	48.80	48.90	74.00	25.10	Pass	V	PK



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Mode:			802.11 k	Transmit	ting			Channel	:	2462MHz		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1139.2139	28.04	2.66	-42.95	49.26	37.01	74.00	36.99	Pass	Н	PK	
2	1692.4692	29.67	3.19	-42.68	49.38	39.56	74.00	34.44	Pass	Н	PK	
3	2351.7352	32.19	3.86	-43.13	49.12	42.04	74.00	31.96	Pass	Н	PK	
4	3271.0181	33.31	4.50	-43.10	48.60	43.31	74.00	30.69	Pass	Н	PK	
5	5010.1340	34.51	4.83	-42.79	50.86	47.41	74.00	26.59	Pass	Н	PK	
6	6354.2236	35.87	5.45	-42.53	48.86	47.65	74.00	26.35	Pass	Н	PK	
7	1195.8196	28.10	2.66	-42.90	50.46	38.32	74.00	35.68	Pass	V	PK	
8	1742.8743	30.00	3.23	-42.68	48.97	39.52	74.00	34.48	Pass	V	PK	
9	2964.1964	33.14	4.44	-43.09	48.27	42.76	74.00	31.24	Pass	V	PK	
10	3928.0619	33.74	4.34	-43.01	49.03	44.10	74.00	29.90	Pass	V	PK	
11	5010.1340	34.51	4.83	-42.79	51.04	47.59	74.00	26.41	Pass	V	PK	
12	7584.3056	36.57	6.02	-42.12	48.13	48.60	74.00	25.40	Pass	V	PK	

Mod	e:		802.11	g Transmit	ting			Channel:		2412MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cabl e loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1170.0170	28.07	2.68	-42.92	49.85	37.68	74.00	36.32	Pass	Н	PK
2	1491.8492	28.39	2.98	-43.06	50.54	38.85	74.00	35.15	Pass	Н	PK
3	2351.9352	32.19	3.86	-43.13	51.10	44.02	74.00	29.98	Pass	Н	PK
4	3252.0168	33.30	4.46	-43.10	48.52	43.18	74.00	30.82	Pass	Н	PK
5	4469.0979	34.46	4.75	-42.81	48.65	45.05	74.00	28.95	Pass	Н	PK
6	6381.2254	35.88	5.37	-42.53	48.63	47.35	74.00	26.65	Pass	Н	PK
7	1240.4240	28.14	2.68	-42.85	49.96	37.93	74.00	36.07	Pass	V	PK
8	1799.2799	30.38	3.32	-42.72	50.58	41.56	74.00	32.44	Pass	V	PK
9	2549.9550	32.48	4.09	-43.10	50.32	43.79	74.00	30.21	Pass	V	PK
10	3857.0571	33.69	4.36	-43.04	49.41	44.42	74.00	29.58	Pass	V	PK
11	5026.1351	34.53	4.85	-42.79	50.59	47.18	74.00	26.82	Pass	V	PK
12	6400.2267	35.88	5.31	-42.52	48.88	47.55	74.00	26.45	Pass	V	PK





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Mode	e:		802.11 g	Transmittir	ıg			Channel		2437MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1193.2193	28.09	2.66	-42.89	49.75	37.61	74.00	36.39	Pass	Н	PK
2	2058.3058	31.78	3.56	-43.18	49.15	41.31	74.00	32.69	Pass	Н	PK
3	2839.1839	32.94	4.23	-43.10	49.54	43.61	74.00	30.39	Pass	Н	PK
4	3928.0619	33.74	4.34	-43.01	48.49	43.56	74.00	30.44	Pass	Н	PK
5	5016.1344	34.52	4.84	-42.80	50.48	47.04	74.00	26.96	Pass	Н	PK
6	6058.2039	35.81	5.22	-42.59	48.32	46.76	74.00	27.24	Pass	Н	PK
7	1272.2272	28.17	2.71	-42.81	49.82	37.89	74.00	36.11	Pass	٧	PK
8	1627.4627	29.24	3.11	-42.83	49.67	39.19	74.00	34.81	Pass	V	PK
9	2827.3827	32.92	4.23	-43.09	50.12	44.18	74.00	29.82	Pass	V	PK
10	3767.0511	33.61	4.36	-43.05	49.17	44.09	74.00	29.91	Pass	V	PK
11	5015.1343	34.52	4.84	-42.80	51.23	47.79	74.00	26.21	Pass	V	PK
12	7389.2926	36.49	5.85	-42.12	49.33	49.55	74.00	24.45	Pass	V	PK

Mod	e:		802.11	g Transmitti	ing	802.11 g Transmitting					
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remar k
1	1351.4351	28.25	2.82	-42.73	50.00	38.34	74.00	35.66	Pass	Н	PK
2	1815.2815	30.48	3.34	-42.75	48.74	39.81	74.00	34.19	Pass	Н	PK
3	2646.9647	32.64	4.09	-43.10	49.24	42.87	74.00	31.13	Pass	Н	PK
4	3595.0397	33.48	4.35	-43.09	48.90	43.64	74.00	30.36	Pass	Н	PK
5	4895.1263	34.50	4.86	-42.80	49.45	46.01	74.00	27.99	Pass	Н	PK
6	5983.1989	35.77	5.33	-42.59	49.63	48.14	74.00	25.86	Pass	Н	PK
7	1148.4148	28.05	2.69	-42.95	49.79	37.58	74.00	36.42	Pass	V	PK
8	1669.6670	29.52	3.16	-42.73	49.57	39.52	74.00	34.48	Pass	V	PK
9	2268.3268	32.08	3.79	-43.15	49.21	41.93	74.00	32.07	Pass	V	PK
10	3059.0039	33.22	4.81	-43.10	48.29	43.22	74.00	30.78	Pass	V	PK
11	4112.0741	33.96	4.37	-42.96	47.33	42.70	74.00	31.30	Pass	V	PK
12	5450.1633	34.95	4.93	-42.62	46.82	44.08	74.00	29.92	Pass	V	PK

















N	lode:			802.11	n(HT20) T	ransmitting			Channel:		2412MHz	
	ОИ	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1297.8298	28.20	2.75	-42.79	50.44	38.60	74.00	35.40	Pass	Н	PK
	2	1744.6745	30.01	3.23	-42.68	48.97	39.53	74.00	34.47	Pass	Н	PK
1	3	2447.5448	32.33	3.97	-43.11	50.96	44.15	74.00	29.85	Pass	Н	PK
	4	3207.0138	33.28	4.62	-43.10	48.39	43.19	74.00	30.81	Pass	Н	PK
	5	4171.0781	34.04	4.50	-42.93	47.91	43.52	74.00	30.48	Pass	Н	PK
	6	5987.1991	35.78	5.33	-42.60	48.80	47.31	74.00	26.69	Pass	Н	PK
	7	1205.4205	28.11	2.66	-42.89	50.23	38.11	74.00	35.89	Pass	V	PK
	8	1473.8474	28.37	2.97	-42.99	50.46	38.81	74.00	35.19	Pass	V	PK
	9	2454.9455	32.34	3.98	-43.11	50.20	43.41	74.00	30.59	Pass	V	PK
	10	3062.0041	33.22	4.80	-43.09	48.86	43.79	74.00	30.21	Pass	V	PK
1	11	3881.0587	33.70	4.35	-43.02	49.25	44.28	74.00	29.72	Pass	V	PK
	12	5532.1688	35.05	5.16	-42.60	48.24	45.85	74.00	28.15	Pass	V	PK

Mode:			802.11 ו	n(HT20) Tr	ansmitting			Channel:		2437MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.2173	28.07	2.68	-42.92	50.44	38.27	74.00	35.73	Pass	Н	PK
2	1744.0744	30.01	3.23	-42.68	49.33	39.89	74.00	34.11	Pass	Н	PK
3	2440.1440	32.32	3.96	-43.11	50.75	43.92	74.00	30.08	Pass	Н	PK
4	3844.0563	33.68	4.36	-43.03	49.15	44.16	74.00	29.84	Pass	Н	PK
5	5651.1767	35.24	4.97	-42.60	48.88	46.49	74.00	27.51	Pass	Н	PK
6	7598.3066	36.56	6.09	-42.12	49.10	49.63	74.00	24.37	Pass	Н	PK
7	1212.0212	28.11	2.66	-42.87	50.03	37.93	74.00	36.07	Pass	V	PK
8	1794.4794	30.34	3.31	-42.70	52.19	43.14	74.00	30.86	Pass	V	PK
9	2937.9938	33.10	4.40	-43.10	49.74	44.14	74.00	29.86	Pass	V	PK
10	4498.0999	34.50	4.64	-42.81	48.28	44.61	74.00	29.39	Pass	V	PK
11	5991.1994	35.79	5.34	-42.61	48.92	47.44	74.00	26.56	Pass	V	PK
12	7430.2954	36.53	5.85	-42.11	48.97	49.24	74.00	24.76	Pass	V	PK

















				1.0			6		/ 0		
Mode:			802.11 r	n(HT20) T	ransmitting			Channel	:	2462MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1344.6345	28.24	2.81	-42.73	50.64	38.96	74.00	35.04	Pass	Н	PK
2	1830.2830	30.58	3.36	-42.79	49.66	40.81	74.00	33.19	Pass	Н	PK
3	2567.9568	32.51	4.09	-43.10	50.57	44.07	74.00	29.93	Pass	Н	PK
4	3791.0527	33.63	4.37	-43.04	49.85	44.81	74.00	29.19	Pass	Н	PK
5	5011.1341	34.51	4.83	-42.79	51.37	47.92	74.00	26.08	Pass	Н	PK
6	6349.2233	35.87	5.46	-42.53	48.99	47.79	74.00	26.21	Pass	Н	PK
7	1319.6320	28.22	2.78	-42.77	50.08	38.31	74.00	35.69	Pass	V	PK
8	1794.0794	30.34	3.31	-42.71	50.98	41.92	74.00	32.08	Pass	V	PK
9	2588.3588	32.54	4.10	-43.10	51.15	44.69	74.00	29.31	Pass	V	PK
10	3423.0282	33.37	4.50	-43.10	49.18	43.95	74.00	30.05	Pass	V	PK
11	4982.1321	34.50	4.82	-42.80	50.17	46.69	74.00	27.31	Pass	V	PK
12	6423.2282	35.88	5.41	-42.51	49.50	48.28	74.00	25.72	Pass	V	PK

Mode:			802.11	n(HT40) T	ransmitting			Channel:		2422MHz	
NO	Freq. [MHz]	Ant Factor [dB]	Cabl e loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1148.0148	28.05	2.68	-42.94	50.01	37.80	74.00	36.20	Pass	Н	PK
2	1551.6552	28.74	3.03	-42.99	48.89	37.67	74.00	36.33	Pass	Н	PK
3	2368.7369	32.22	3.88	-43.13	50.45	43.42	74.00	30.58	Pass	Н	PK
4	3068.0045	33.23	4.79	-43.10	48.37	43.29	74.00	30.71	Pass	Н	PK
5	4396.0931	34.35	4.55	-42.84	47.97	44.03	74.00	29.97	Pass	Н	PK
6	6272.2181	35.85	5.40	-42.54	48.23	46.94	74.00	27.06	Pass	Н	PK
7	1218.6219	28.12	2.67	-42.87	49.11	37.03	74.00	36.97	Pass	V	PK
8	2004.1004	31.71	3.48	-43.21	49.23	41.21	74.00	32.79	Pass	V	PK
9	2867.5868	32.99	4.28	-43.10	48.52	42.69	74.00	31.31	Pass	V	PK
10	3955.0637	33.76	4.34	-43.01	48.13	43.22	74.00	30.78	Pass	V	PK
11	5539.1693	35.06	5.16	-42.60	48.48	46.10	74.00	27.90	Pass	V	PK
12	7018.2679	36.12	5.69	-42.20	48.82	48.43	74.00	25.57	Pass	V	PK



















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ı	Mode:			802.11 n	(HT40) Tra	ansmitting			Channel:		2437MHz	
	ОО	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/ m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1135.4135	28.04	2.65	-42.96	49.78	37.51	74.00	36.49	Pass	Н	PK
1	2	1727.2727	29.90	3.22	-42.68	49.48	39.92	74.00	34.08	Pass	Н	PK
6	3	2439.1439	32.31	3.96	-43.11	50.66	43.82	74.00	30.18	Pass	Н	PK
	4	3074.0049	33.23	4.78	-43.10	48.45	43.36	74.00	30.64	Pass	Н	PK
	5	4346.0897	34.28	4.50	-42.86	47.48	43.40	74.00	30.60	Pass	Н	PK
	6	6374.2249	35.87	5.39	-42.52	49.55	48.29	74.00	25.71	Pass	Н	PK
	7	1295.4295	28.20	2.74	-42.79	51.00	39.15	74.00	34.85	Pass	V	PK
	8	1883.2883	30.93	3.41	-42.92	51.18	42.60	74.00	31.40	Pass	V	PK
	9	2959.7960	33.14	4.43	-43.10	49.35	43.82	74.00	30.18	Pass	V	PK
	10	3875.0583	33.70	4.35	-43.02	49.39	44.42	74.00	29.58	Pass	V	PK
	11	4999.1333	34.50	4.82	-42.80	50.99	47.51	74.00	26.49	Pass	V	PK
	12	7265.2844	36.37	5.80	-42.15	49.55	49.57	74.00	24.43	Pass	V	PK

Mode:	Mode:			HT40) Tra	ansmitting			Channel	:	2452MHz	:
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1152.4152	28.05	2.69	-42.94	50.20	38.00	74.00	36.00	Pass	Н	PK
2	1617.4617	29.18	3.09	-42.86	49.43	38.84	74.00	35.16	Pass	Н	PK
3	2292.9293	32.11	3.80	-43.14	50.00	42.77	74.00	31.23	Pass	Н	PK
4	3522.0348	33.42	4.47	-43.10	48.53	43.32	74.00	30.68	Pass	Н	PK
5	5021.1347	34.52	4.85	-42.80	50.15	46.72	74.00	27.28	Pass	Н	PK
6	6331.2221	35.87	5.46	-42.54	49.34	48.13	74.00	25.87	Pass	Н	PK
7	1135.4135	28.04	2.65	-42.96	50.14	37.87	74.00	36.13	Pass	V	PK
8	1554.2554	28.76	3.03	-42.99	49.97	38.77	74.00	35.23	Pass	V	PK
9	2436.9437	32.31	3.96	-43.11	51.58	44.74	74.00	29.26	Pass	V	PK
10	3585.0390	33.47	4.37	-43.09	48.86	43.61	74.00	30.39	Pass	V	PK
11	4574.1049	34.50	4.89	-42.80	48.07	44.66	74.00	29.34	Pass	V	PK
12	7654.3103	36.54	6.16	-42.13	48.76	49.33	74.00	24.67	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.













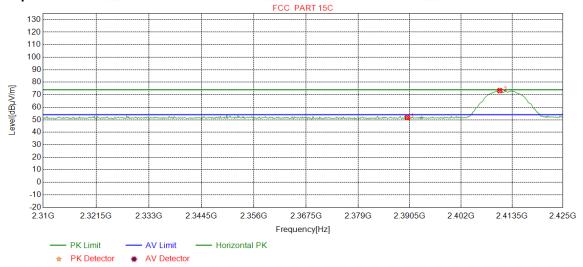
Report No. : EED32M80160303 Page 30 of 65

Restricted bands:

Test plot as follows:

Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:	PK		/

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.29	51.79	74.00	22.21	Pass	Horizontal
2	2410.7509	32.28	13.35	-43.12	70.80	73.31	74.00	0.69	Pass	Horizontal

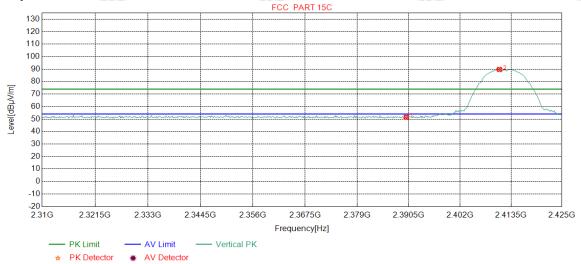




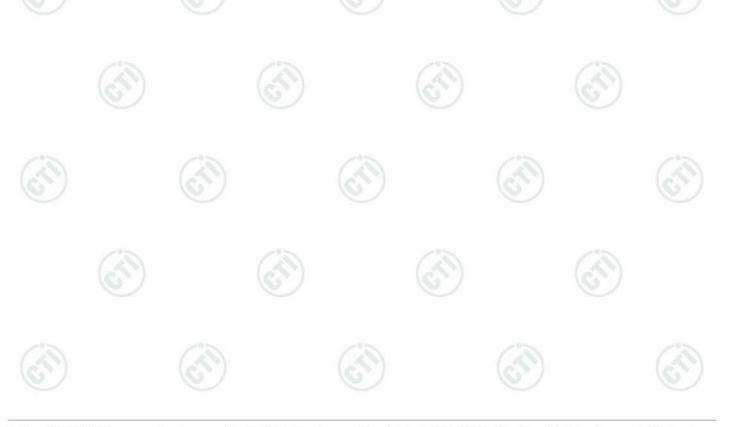
Report No. : EED32M80160303 Page 31 of 65

Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.99	51.49	74.00	22.51	Pass	Vertical
2	2410.8949	32.28	13.35	-43.12	87.16	89.67	74.00	-15.67	Pass	Vertical

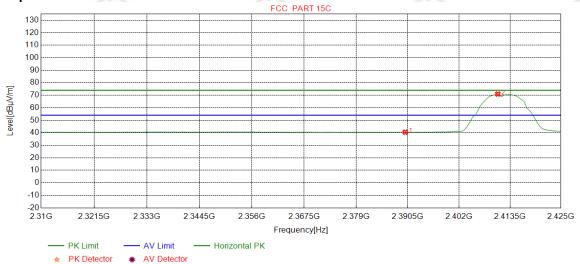




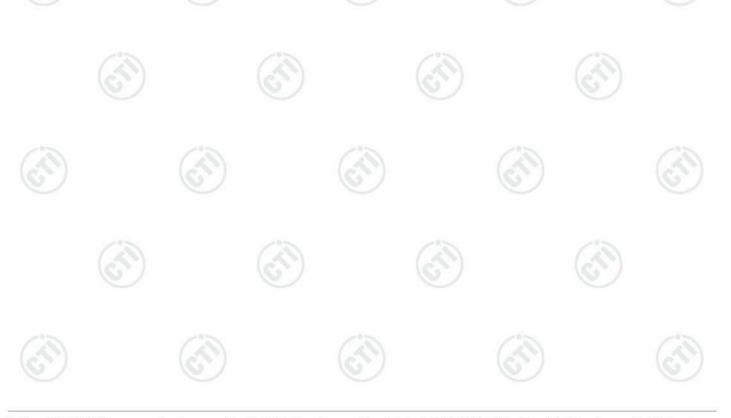


Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:	AV		

Test Graph



N	Ю	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
	1	2390.0000	32.25	13.37	-43.12	37.94	40.44	54.00	13.56	Pass	Horizontal
2	2	2410.7509	32.28	13.35	-43.12	68.45	70.96	54.00	-16.96	Pass	Horizontal

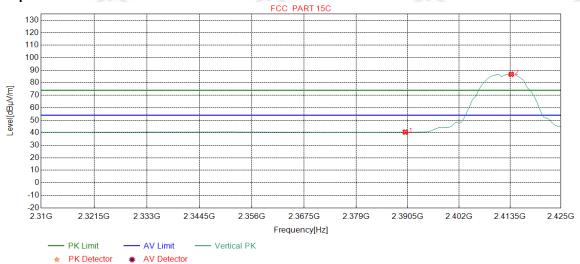




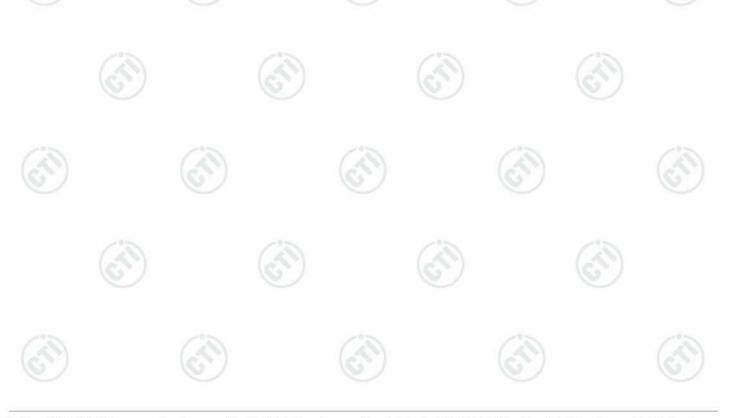
Report No. : EED32M80160303 Page 33 of 65

37 /	1000 AAL T	- C	10440194
Mode:	802.11 b Transmitting	Channel:	2412MHz
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.04	40.54	54.00	13.46	Pass	Vertical
2	2413.7735	32.28	13.36	-43.11	84.19	86.72	54.00	-32.72	Pass	Vertical

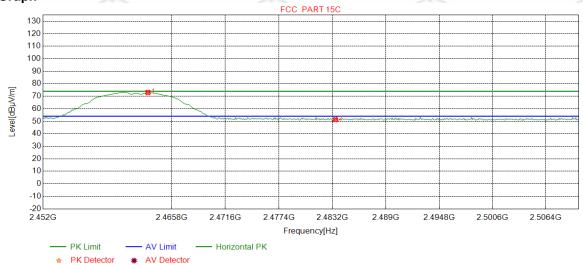




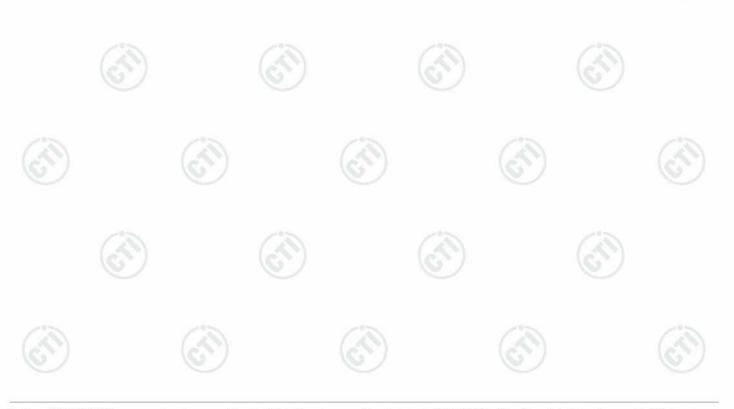
Report No. : EED32M80160303 Page 34 of 65

Mode:	802.11 b Transmitting	Channel:	2462MHz
Remark:	PK		

Test Graph



N	10	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
	1	2463.2516	32.35	13.47	-43.11	70.29	73.00	74.00	1.00	Pass	Horizontal
	2	2483.5000	32.38	13.38	-43.11	48.66	51.31	74.00	22.69	Pass	Horizontal

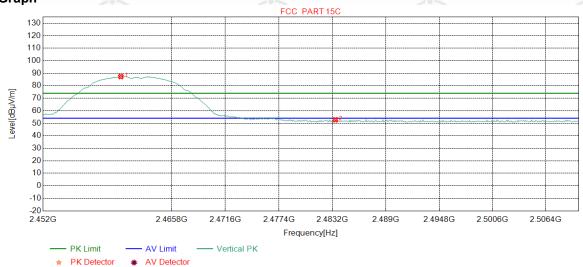




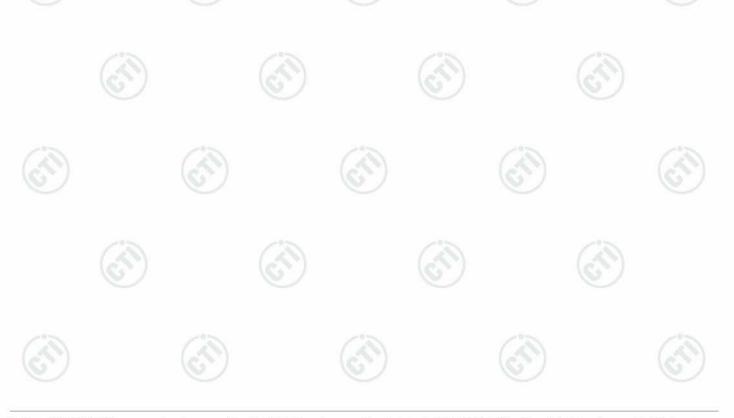
Report No. : EED32M80160303 Page 35 of 65

Mode:	802.11 b Transmitting	Channel:	2462MHz
Remark:	PK	<u>'</u>	

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2460.3479	32.34	13.48	-43.10	84.56	87.28	74.00	-13.28	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	50.11	52.76	74.00	21.24	Pass	Vertical

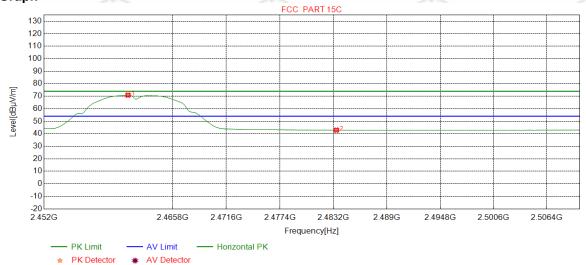




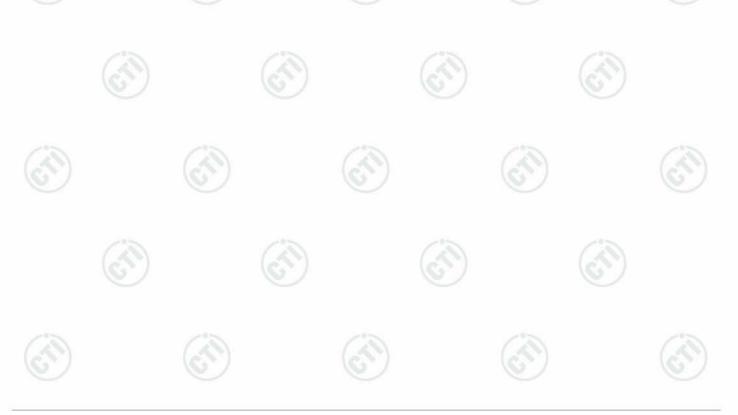
Report No. : EED32M80160303 Page 36 of 65

Mode:	802.11 b Transmitting	Channel:	2462MHz
Remark:	AV		

Test Graph



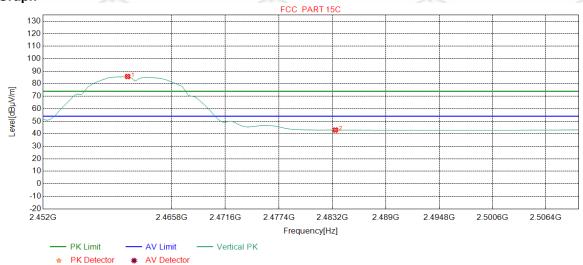
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0013	32.35	13.48	-43.11	68.19	70.91	54.00	-16.91	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.25	42.90	54.00	11.10	Pass	Horizontal



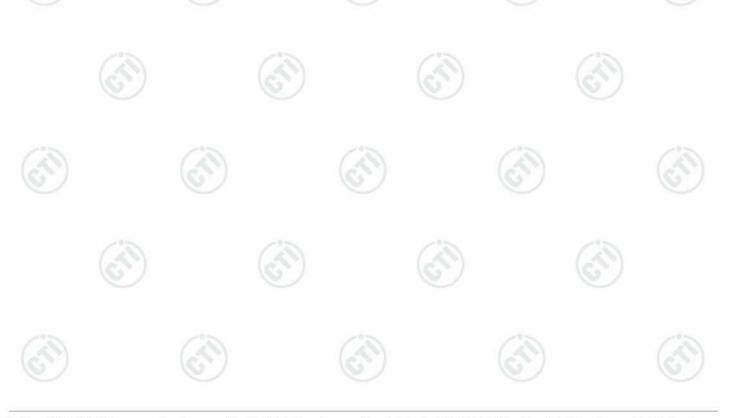




Mode:	802.11 b Transmitting	Channel:	2462MHz
Remark:	AV		

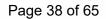


NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	83.03	85.75	54.00	-31.75	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.35	43.00	54.00	11.00	Pass	Vertical

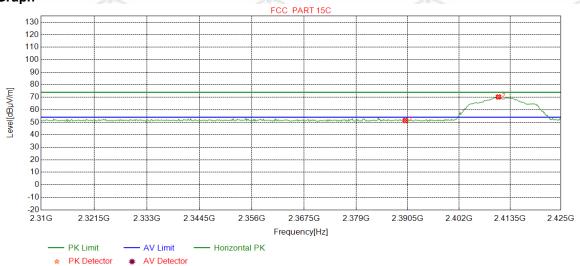




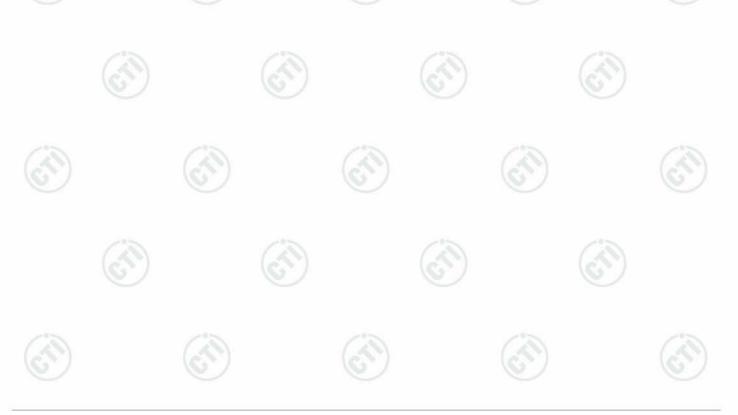




Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	PK		



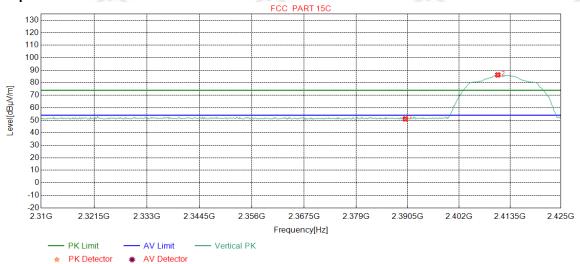
	NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
ſ	1	2390.0000	32.25	13.37	-43.12	48.84	51.34	74.00	22.66	Pass	Horizontal
Ī	2	2410.8949	32.28	13.35	-43.12	67.70	70.21	74.00	3.79	Pass	Horizontal



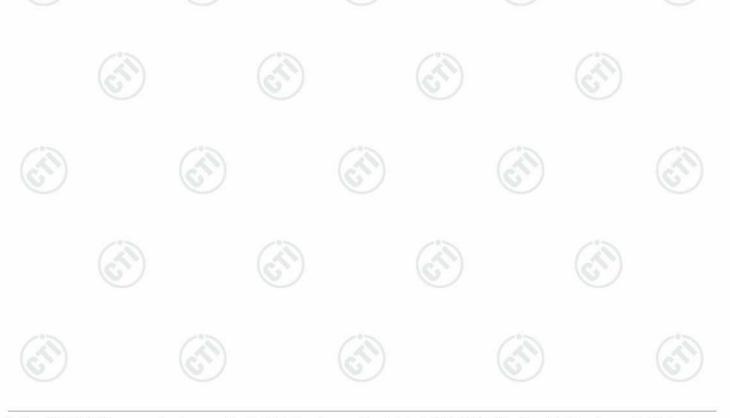




Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	PK	·	



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.56	51.06	74.00	22.94	Pass	Vertical
2	2410.7509	32.28	13.35	-43.12	83.74	86.25	74.00	-12.25	Pass	Vertical



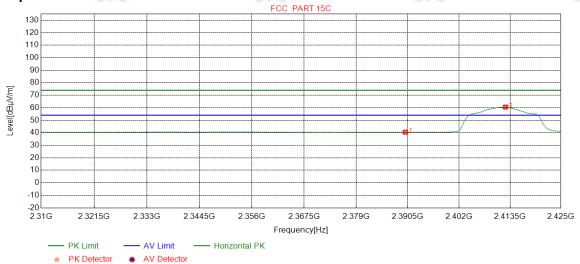




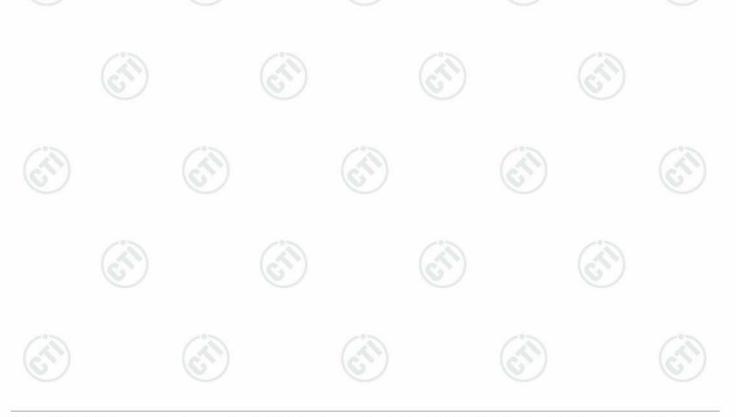
6.3	1.6.75	120.00	1,600
Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	AV		

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Test Graph



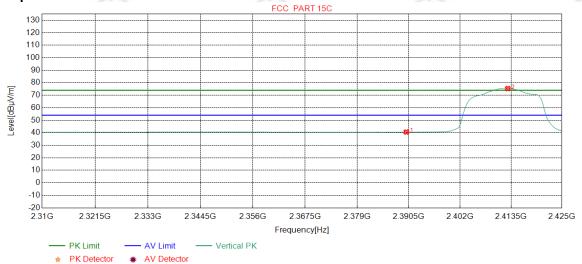
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	37.95	40.45	54.00	13.55	Pass	Horizontal
2	2412.4781	32.28	13.36	-43.12	58.02	60.54	54.00	-6.54	Pass	Horizontal



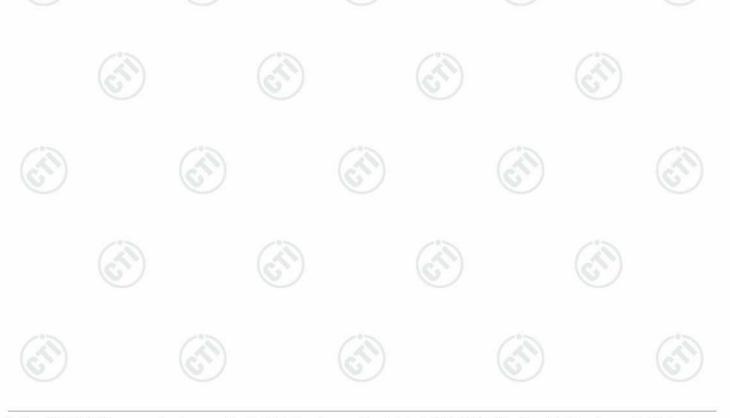




2.7	16.7.	16.3	16.7
Mode:	802.11 g Transmitting	Channel:	2412MHz
Remark:	AV		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.07	40.57	54.00	13.43	Pass	Vertical
2	2412.7660	32.28	13.36	-43.12	72.81	75.33	54.00	-21.33	Pass	Vertical



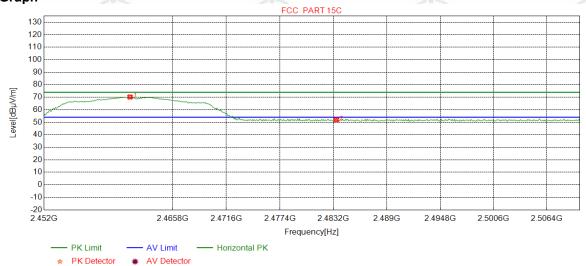




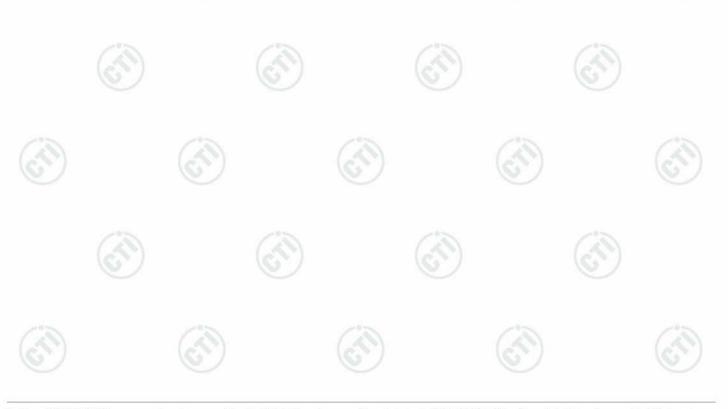
Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	PK		

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Test Graph



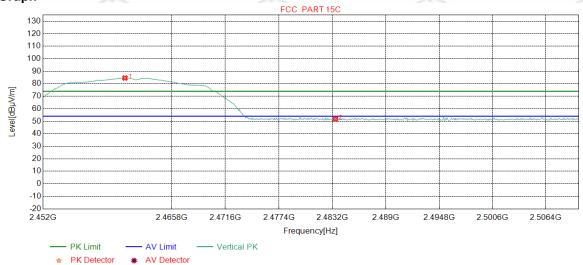
NC	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.2190	32.35	13.48	-43.11	67.47	70.19	74.00	3.81	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.34	51.99	74.00	22.01	Pass	Horizontal



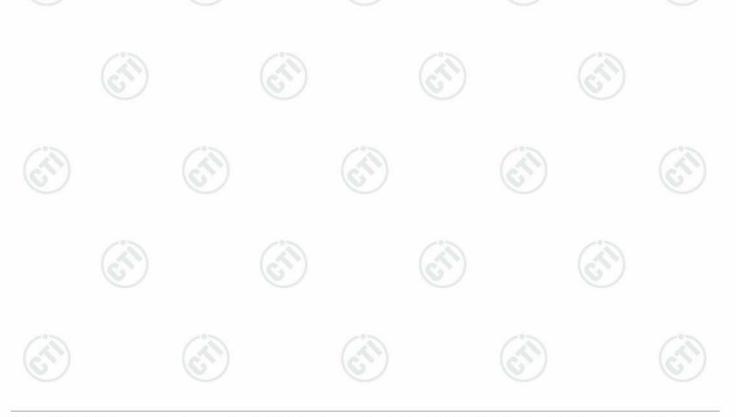




Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	PK	·	



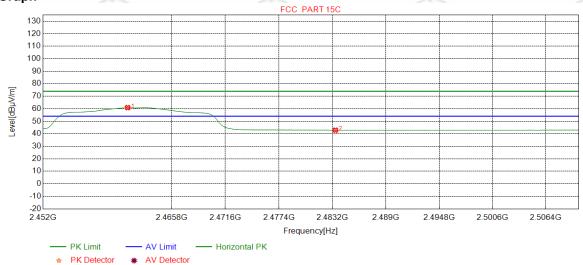
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2460.7835	32.35	13.48	-43.11	81.85	84.57	74.00	-10.57	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.23	51.88	74.00	22.12	Pass	Vertical



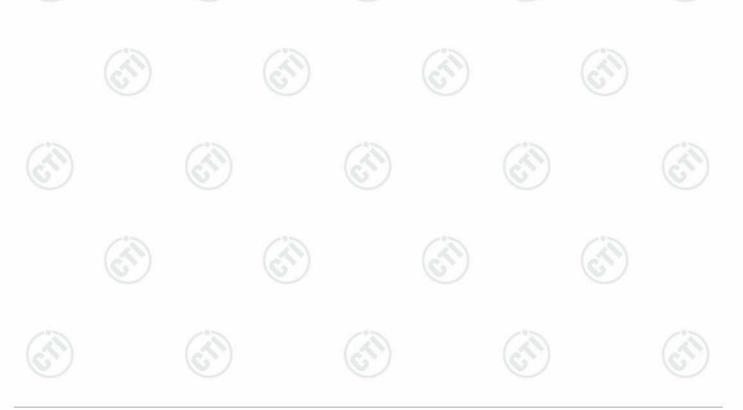




Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	AV	·	·



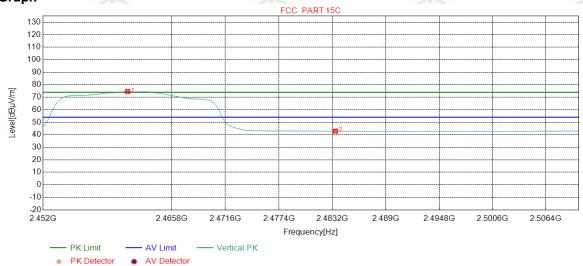
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	58.17	60.89	54.00	-6.89	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.23	42.88	54.00	11.12	Pass	Horizontal



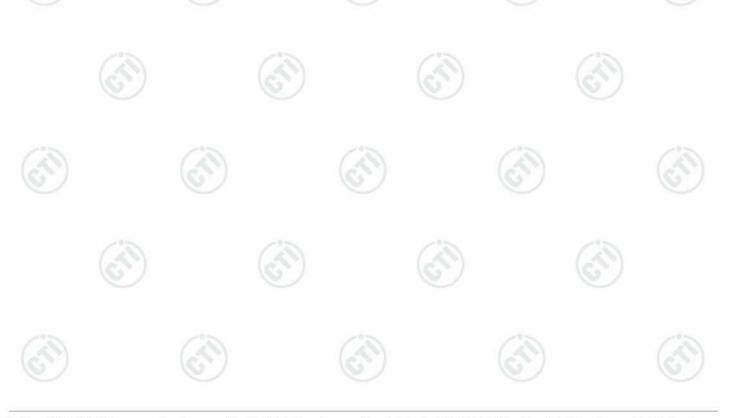




2,7 /		1537	1 - 1 - 1 - 1
Mode:	802.11 g Transmitting	Channel:	2462MHz
Remark:	AV		



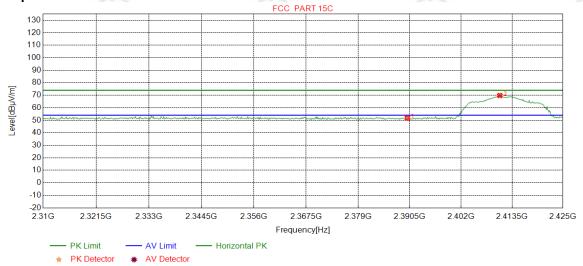
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.0738	32.35	13.48	-43.11	71.89	74.61	54.00	-20.61	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.27	42.92	54.00	11.08	Pass	Vertical



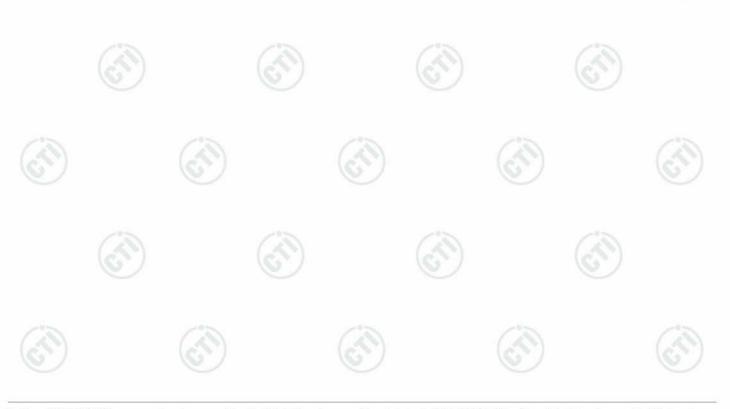




C-7 /	16-7-7		7 /	1657
Mode:	802.11 n(HT20) Ti	ransmitting	Channel:	2412MHz
Remark:	PK			



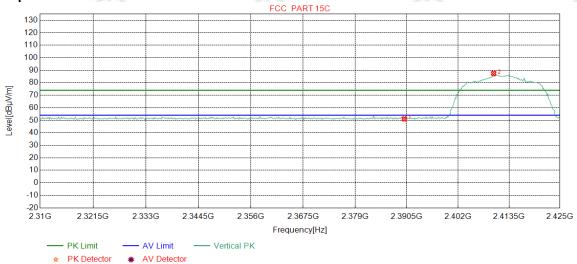
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	49.31	51.81	74.00	22.19	Pass	Horizontal
2	2410.7509	32.28	13.35	-43.12	67.28	69.79	74.00	4.21	Pass	Horizontal



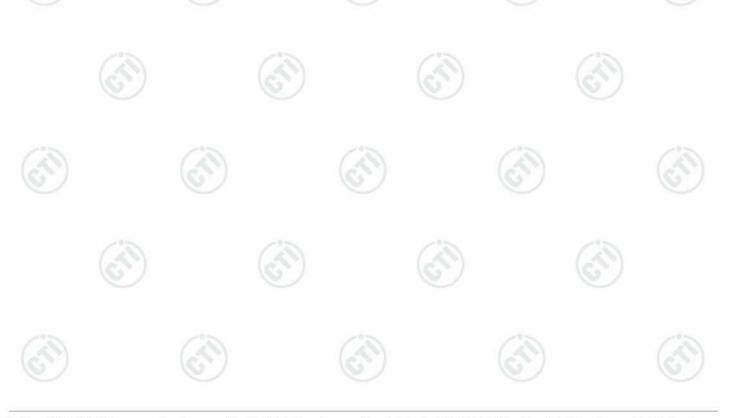




Mode:	802.11 n(HT20) Transmitting	Channel:	2412MHz
Remark:	PK		



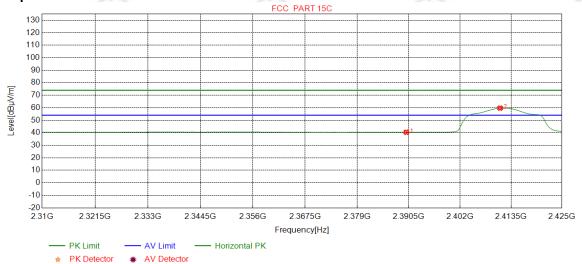
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.57	51.07	74.00	22.93	Pass	Vertical
2	2410.0313	32.27	13.35	-43.12	84.96	87.46	74.00	-13.46	Pass	Vertical



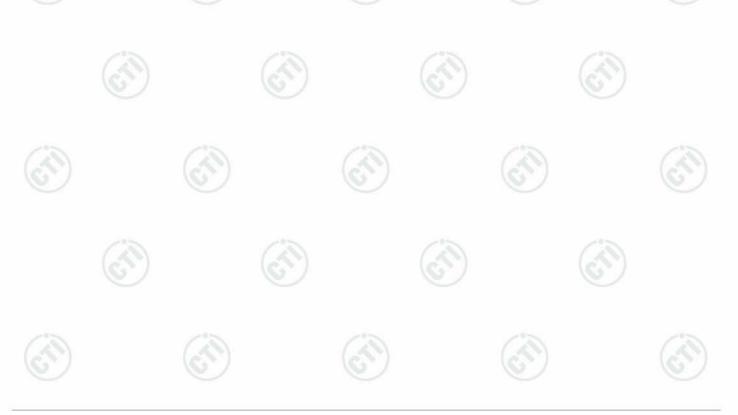




Mode:	802.11 n(HT20) Transmitting	Channel:	2412MHz
Remark:	AV		



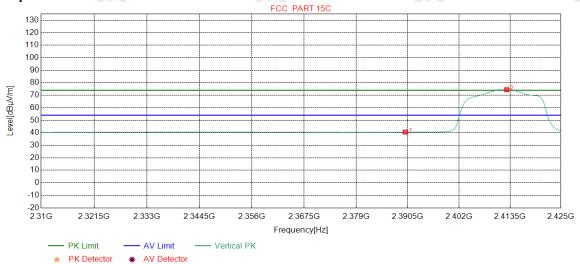
N	Ю	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
	1	2390.0000	32.25	13.37	-43.12	37.92	40.42	54.00	13.58	Pass	Horizontal
	2	2411.0388	32.28	13.35	-43.12	57.20	59.71	54.00	-5.71	Pass	Horizontal



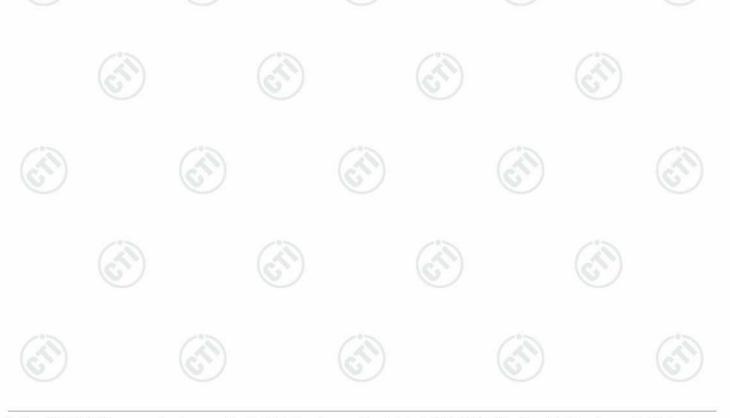




Mode:	802.11 n(HT20) Transmitting	Channel:	2412MHz
Remark:	AV		



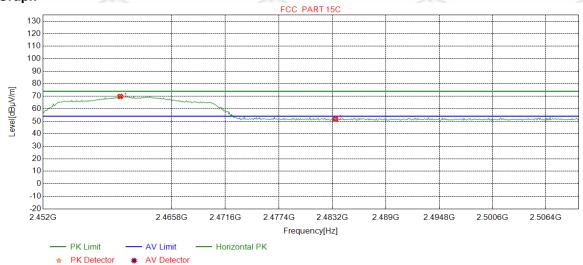
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.07	40.57	54.00	13.43	Pass	Vertical
2	2412.7660	32.28	13.36	-43.12	71.95	74.47	54.00	-20.47	Pass	Vertical



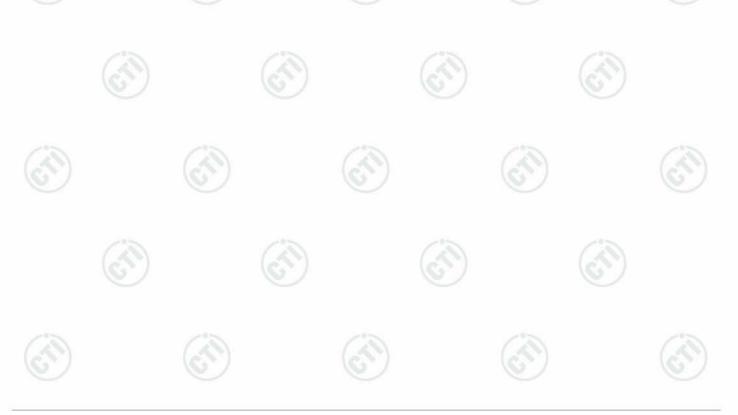




Mode:	802.11 n(HT20) Transmitting	Channel:	2462MHz
Remark:	PK		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2460.2753	32.34	13.48	-43.10	67.08	69.80	74.00	4.20	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	49.03	51.68	74.00	22.32	Pass	Horizontal

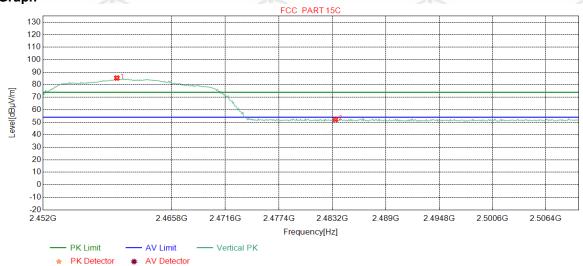




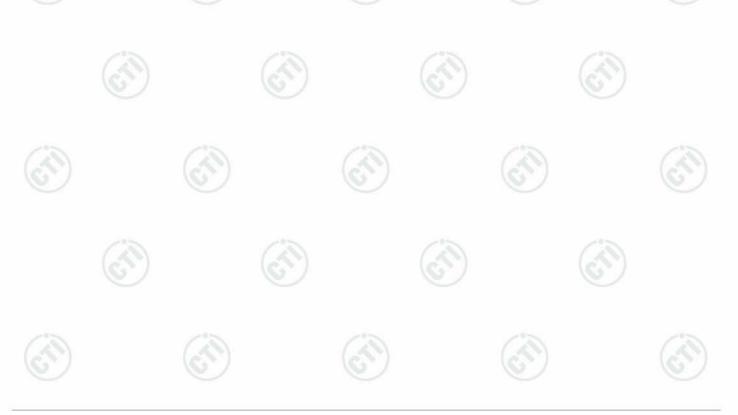
Report No. : EED32M80160303 Page 51 of 65

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

Test Graph



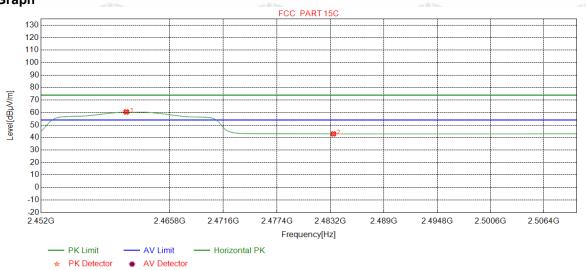
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2459.9124	32.34	13.48	-43.10	82.61	85.33	74.00	-11.33	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	49.62	52.27	74.00	21.73	Pass	Vertical



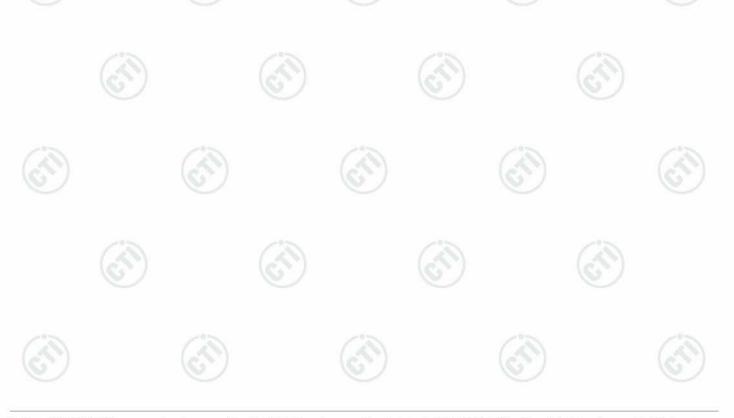




27.7	16.7.1	T. 19 1	167.7
Mode:	802.11 n(HT20) Transmitting	Channel:	2462MHz
Remark:	AV		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.1464	32.35	13.48	-43.11	57.76	60.48	54.00	-6.48	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.26	42.91	54.00	11.09	Pass	Horizontal

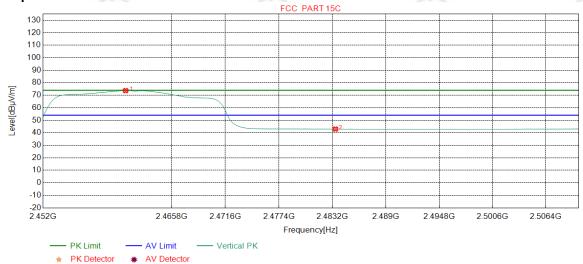




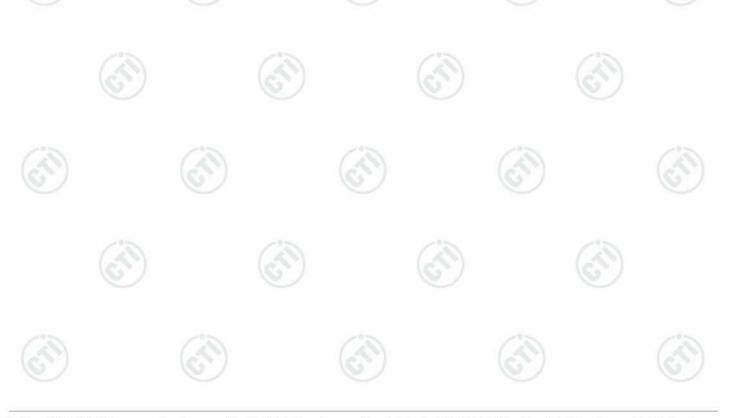
Report No. : EED32M80160303 Page 53 of 65

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

Test Graph



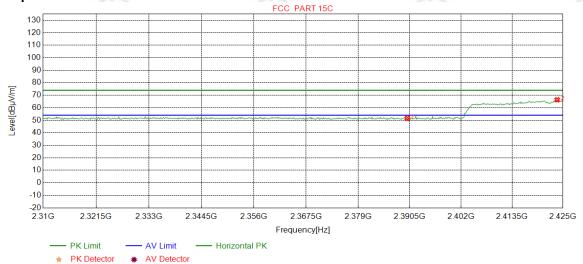
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2460.8561	32.35	13.48	-43.11	70.97	73.69	54.00	-19.69	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.29	42.94	54.00	11.06	Pass	Vertical



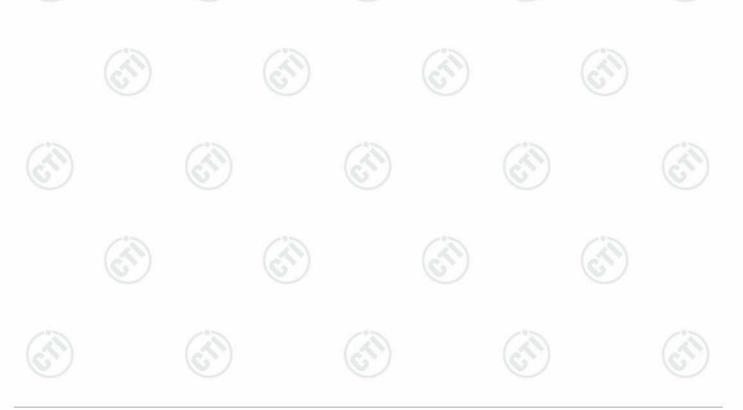




Mode:	802.11 n(HT40) Transmitting	Channel:	2422MHz
Remark:	PK		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.98	51.48	74.00	22.52	Pass	Horizontal
2	2423.7046	32.29	13.41	-43.11	63.75	66.34	74.00	7.66	Pass	Horizontal

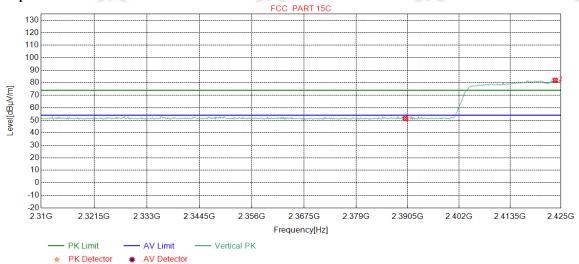




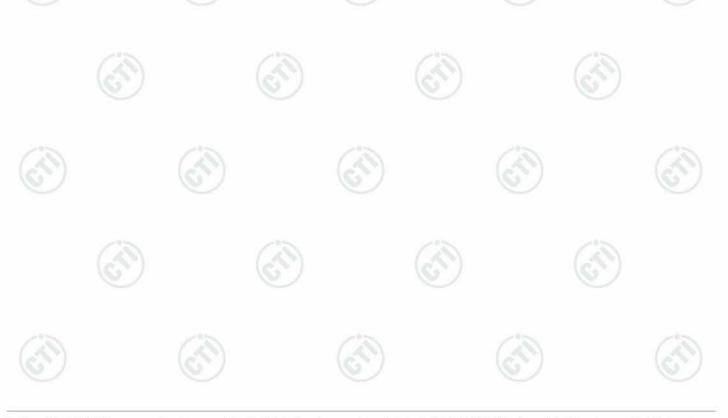
Report No. : EED32M80160303 Page 55 of 65

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

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.85	51.35	74.00	22.65	Pass	Vertical
2	2423.7046	32.29	13.41	-43.11	79.33	81.92	74.00	-7.92	Pass	Vertical

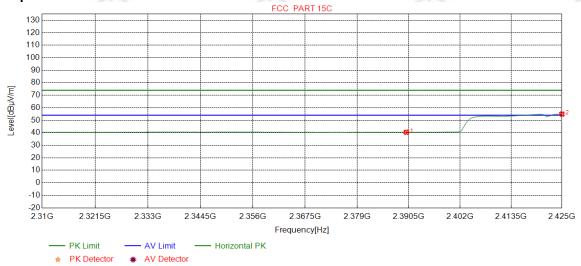




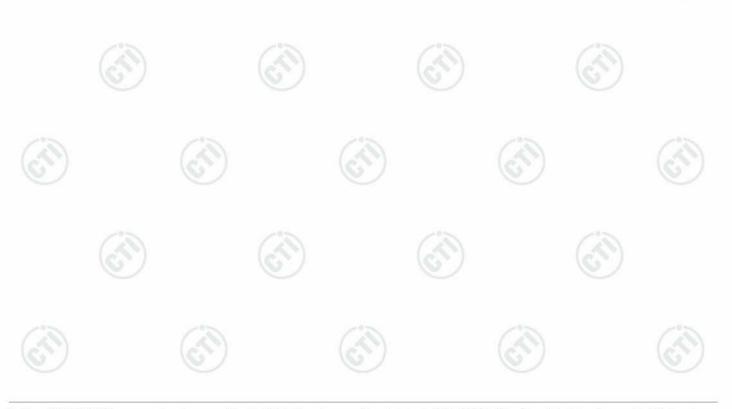
Report No. : EED32M80160303 Page 56 of 65

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

Test Graph



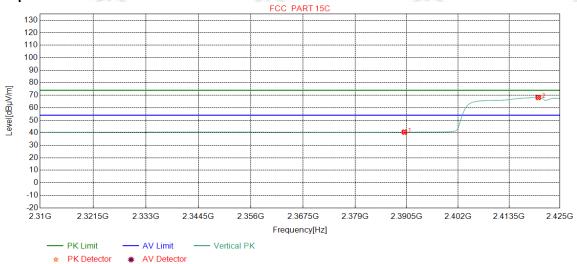
N	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	37.91	40.41	54.00	13.59	Pass	Horizontal
2	2425.0000	32.30	13.42	-43.12	52.34	54.94	54.00	-0.94	Pass	Horizontal



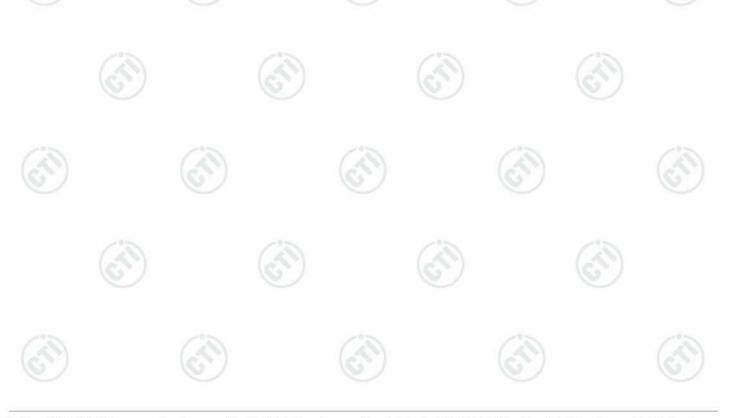




Mode:	802.11 n(HT40) Transmitting	Channel:	2422MHz
Remark:	AV		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	38.02	40.52	54.00	13.48	Pass	Vertical
2	2420.1064	32.29	13.39	-43.12	65.67	68.23	54.00	-14.23	Pass	Vertical

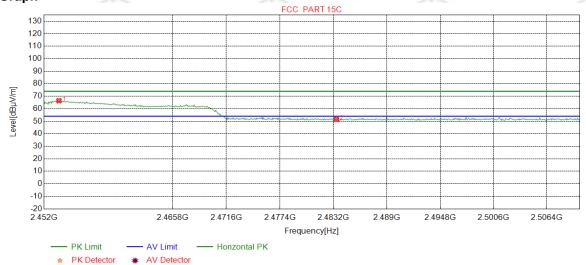




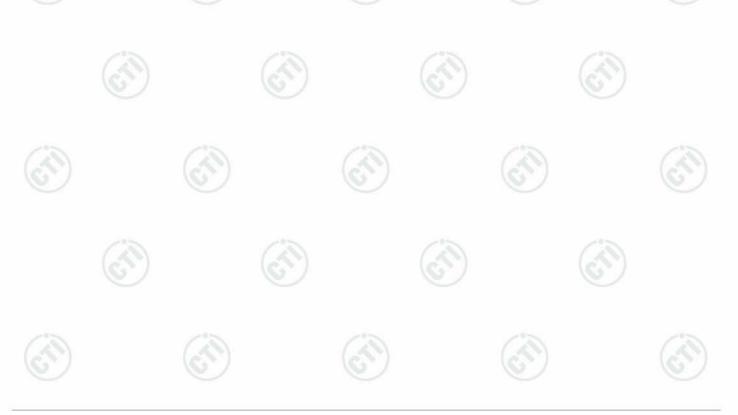
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Mode:	802.11 n(HT40)) Transmitting	Channel:	2452MHz
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2453.5970	32.34	13.51	-43.11	63.68	66.42	74.00	7.58	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	48.89	51.54	74.00	22.46	Pass	Horizontal

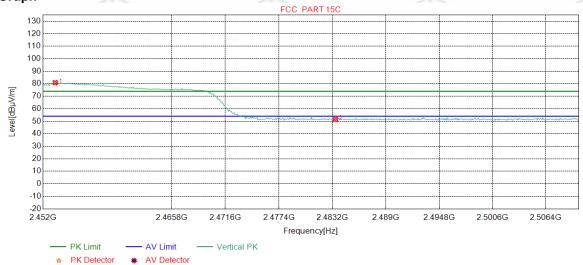




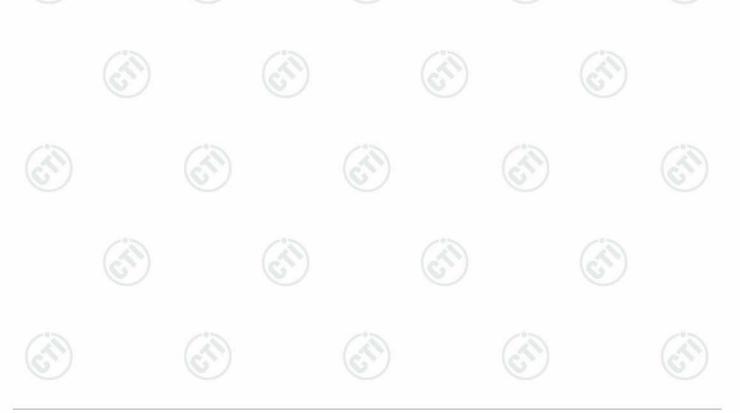
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Mode:	802.11 n(HT40) Transmitting	Channel:	2452MHz
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2453.3066	32.33	13.51	-43.10	78.08	80.82	74.00	-6.82	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	48.78	51.43	74.00	22.57	Pass	Vertical

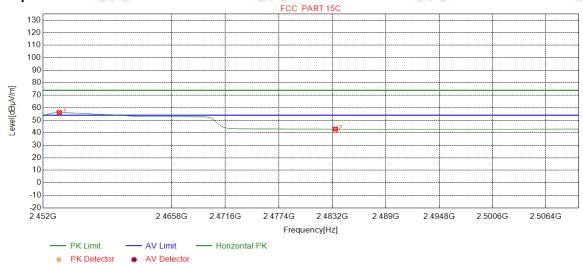




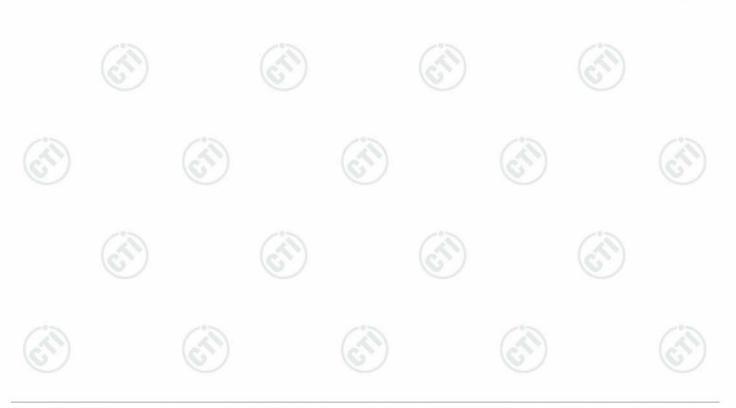
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Mode:	802.11 n(HT40) Transmitting	Channel:	2452MHz
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2453.7422	32.34	13.51	-43.11	53.40	56.14	54.00	-2.14	Pass	Horizontal
2	2483.5000	32.38	13.38	-43.11	40.24	42.89	54.00	11.11	Pass	Horizontal

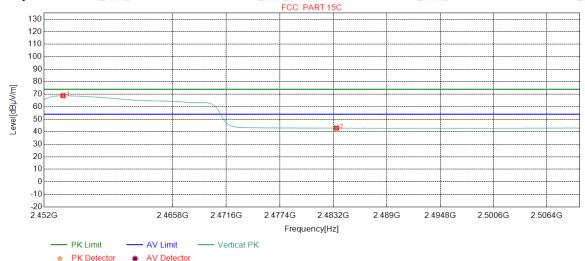




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Mode:	802.11 n(HT40) Transmitting	Channel:	2452MHz
Remark:	AV		

Test Graph



N O	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Readin g [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margi n [dB]	Result	Polarity
1	2454.0325	32.34	13.51	-43.11	66.11	68.85	54.00	-14.85	Pass	Vertical
2	2483.5000	32.38	13.38	-43.11	40.28	42.93	54.00	11.07	Pass	Vertical

Note:

- 1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 11Mbps of rate is the worst case of 802.11b; 6Mbpsof rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40), and then Only the worst case is recorded in the report.
- 2) 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









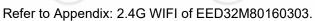


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8 Appendix A

























































































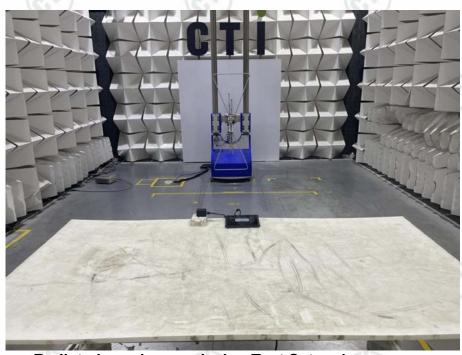




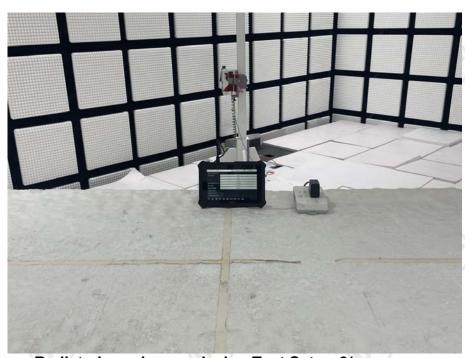
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9 PHOTOGRAPHS OF TEST SETUP





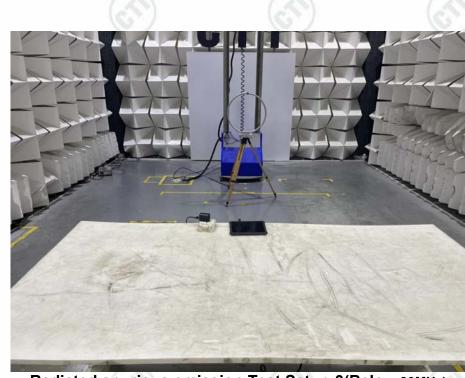
Radiated spurious emission Test Setup-1(Below 1GHz)



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



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Radiated spurious emission Test Setup-3(Below 30MHz)



Conducted Emissions Test Setup













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10 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M80160301 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

