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TEST REPORT

Product: MOUNTED COMPUTER

Trade mark : MEFERI

Model/Type reference: MC45, MC45_ROW, MC45_RU,

MC47

Serial Number : N/A

Report Number : EED32R80300003

FCC ID : 2A9LJ-MC45

Date of Issue : May 21, 2025

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

MEFERI TECHNOLOGIES CO., LTD 5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, P.R. China

Prepared by:

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May 21, 2025



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2 Version

Version No.	Date	(6)	Description	9
00	May 21, 2025		Original	
(6		(65)	(6,70)	(67)











































































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3 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:

Model No.: MC45, MC45_ROW, MC45_RU, MC47

Only the model MC45 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, only the model name, Customer demandand are different for marketing requirements.





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4 General Information

4.1 Client Information

Applicant:	MEFERI TECHNOLOGIES CO., LTD
Address of Applicant:	5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, P.R. China
Manufacturer:	MEFERI TECHNOLOGIES CO., LTD
Address of Manufacturer:	5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, P.R. China
Factory:	MEFERI TECHNOLOGIES CO., LTD
Address of Factory:	5F, A5, Tianfu Software Park, No. 1129, Century City Road, High-tech Zone, 610000, Chengdu, Sichuan, P.R. China

4.2 General Description of EUT

-				
Product Name:	MOUNTED COMPUTER			
Model No.:	MC45, MC45_ROW, MC45_RU, MC47			
Test Model No.:	MC45			
Trade mark:	MEFERI			
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location			
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz			
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,QPSK,BPSK)			
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels			
Channel Separation:	5MHz			
Antenna Type:	FPC Antenna			
Antenna Gain:	Antenna 1: 4.72 dBi Antenna 2: 4.39 dBi			
Power Supply:	Adapter: DC 12V or Powered by POE			
Test Voltage:	DC 12V			
Sample Received Date:	Mar. 24, 2025			
Sample tested Date:	Mar. 24, 2025 to Apr. 26, 2025			





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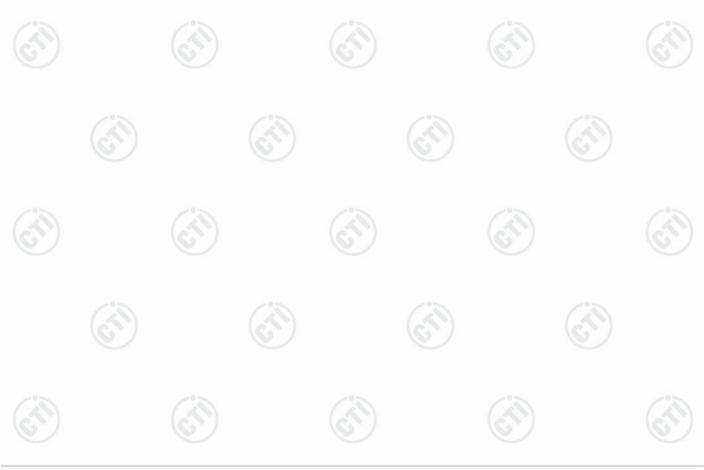
Onevetien	F	ala af alaawa	-1 (000 44h/m/m	LIT20\	1	(10)	\
Operation	Frequency ea	ch oi channe	el (802.11b/g/n	H120)	1	10,	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(3)

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







4.3 Test Configuration

EUT Test Software Setti	ngs:		
Test Software:	Adb.exe	-0-	-0-
EUT Power Grade:	Default	(49)	(41)
Lice test software to set th	o lowest frequency, the middle fre	augney and the highest frequence	ny koon

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

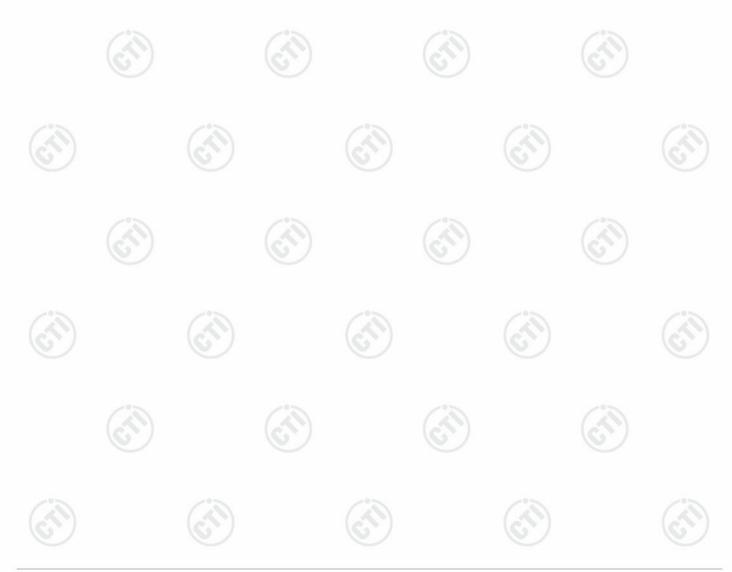
Test Mode:

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
802.11n(HT20)	MCS0

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, MCS0 for 802.11n(HT20).





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4.4 Test Environment

0	perating Environment						
R	adiated Spurious Emis	ssions:					
Te	emperature:	22~25.0 °C	(41)		(41)		(41)
/ н	umidity:	50~55 % RH	0		(0)		(0)
At	tmospheric Pressure:	1010mbar					
C	onducted Emissions:						
Te	emperature:	22~25.0 °C		(3)		(20)	
Н	umidity:	50~55 % RH		(0,)		(0,	
At	tmospheric Pressure:	1010mbar					
R	F Conducted:						
Te	emperature:	22~25.0 °C	(3)				
Н	umidity:	50~55 % RH	(6,7,2)		(6,7,2)		(6,7)
At	tmospheric Pressure:	1010mbar					

4.5 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	P77F	FCC&CE	СТІ

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

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

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

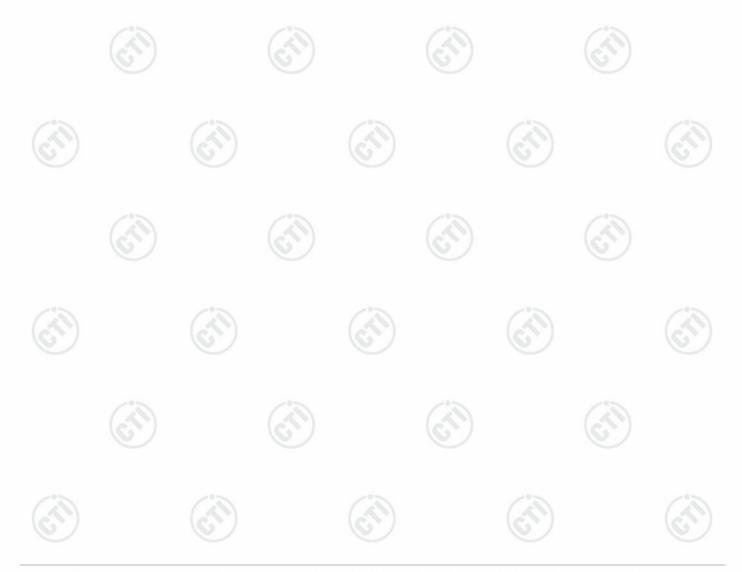






4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	0	3.3dB (9kHz-30MHz)
2	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3		4.5dB (1GHz-18GHz)
(P)		3.4dB (18GHz-40GHz)
	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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5 Equipment List

		RF test	system			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024	12-104-2025	
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024	11-29-2025	
DC Power	Keysight	E3642A	MY56376072	11-30-2024	11-29-2025	
Communication test	R&S	CMW500	169004	03-03-2025	03-02-2026	
RF control unit(power unit)	JS Tonscend	JS0806-2	22G8060592	07-22-2024	07-21-2025	
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	05-31-2024	05-30-2025	
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20	- 6	<u>-</u>	
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026	

LETA Y		16"4" 1		16727 1	16.7			
Conducted disturbance Test								
			Serial	Cal. date	Cal. Due date			
Equipment	Manufacturer	cturer Model No.		(mm-dd-yyyy)	(mm-dd-yyyy)			
Receiver	R&S	ESCI	100435	04-18-2024 04-08-2025	04-17-2025 04-07-2026			
Temperature/ Humidity	5.6	T11400	,	04-25-2024	04-24-2025			
Indicator	Defu	TH128	/	03-31-2025	03-30-2026			
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025			
Barometer	changchun	DYM3	1188					



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Test software	Fara	EZ-EMC	EMC-CON 3A1.1	(65
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025

3M Semi-anechoic Chamber (2)- Radiated disturbance Test								
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	(mm-dd-yyyy) 05/21/2025			
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022				
Receiver	R&S	ESCI7	100938- 003	09/07/2024	09/06/2025			
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025			
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025			
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024 04/07/2025	04/15/2025 04/06/2026			
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025			
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026			
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D- 1869	04/16/2024 04/07/2025	04/15/2025 04/06/2026			
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026			
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025			
Test software	Fara	EZ-EMC	EMEC- 3A1-Pre					
Cable line	Fulai(7M)	SF106	5219/6A	05/22/2022	05/21/2025			
Cable line	Fulai(6M)	SF106	5220/6A	05/22/2022	05/21/2025			
Cable line	Fulai(3M)	SF106	5216/6A	05/22/2022	05/21/2025			
Cable line	Fulai(3M)	SF106	5217/6A	05/22/2022	05/21/2025			













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		3M full-anechoic	Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	(01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024 04-12-2025	04-27-2025 04-11-2026
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024 04-12-2025	04-15-2025 04-11-2026
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024 03-03-2025	03-07-2025 03-02-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Communication test set	R&S	CMW500	102898	01-04-2025	01-03-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024 03-31-2025	04-06-2025 03-30-2026
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	- 6	<u> </u>
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

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



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6 Test results and Measurement Data

6.1 Antenna Requirement

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

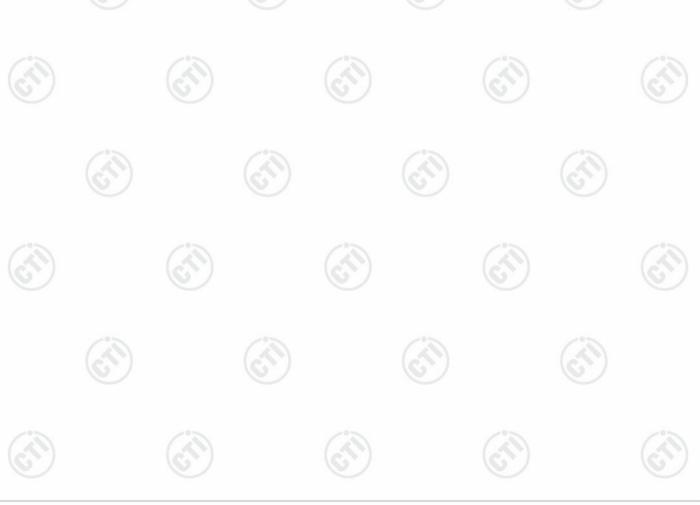
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PFC antenna. The best case gain of the antenna 1 is 4.72dBi. The best case gain of the antenna 2 is 4.39dBi.







6.2 AC Power Line Conducted Emissions

	Test Requirement:	47 CFR Part 15C Section 15.2	A 1	(0,1)				
-	Test Method:	ANSI C63.10: 2013						
	Test Frequency Range:	150kHz to 30MHz						
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
	Limit:		Limit (d	lBuV)				
		Frequency range (MHz)	Quasi-peak	Average				
		0.15-0.5	66 to 56*	56 to 46*				
		0.5-5	56	46				
		5-30	60	50				
		* Decreases with the logarithm	ETA TO I	6.0				
	Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Mass Ground Reference Plane	Test Receiver				
	Test Procedure:	 The mains terminal disturbly room. The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the real 	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 n	through a LISN 1 (Line is a $50\Omega/50\mu\text{H} + 5\Omega$ linear units of the EUT were d to the ground reference unit being measured. A multiple power cables to a not exceeded.				
		 3) The tabletop EUT was play ground reference plane. A placed on the horizontal ground the EUT shall be 0.4 m vertical ground reference reference plane. The LISM unit under test and bon mounted on top of the ground rest points of the Land associated equipments. 5) In order to find the maximuland all of the interface call ANSI C63.10: 2013 on corrections. 	and for floor-standing and for floor-standing and reference plane. It is a vertical ground reference plane was bonded to a ground reference plane. The LISN 1 and the EUT. At was at least 0.8 m from the must be changed as the changed as the county of the second reference plane. The was at least 0.8 m from the must be changed as the cha	erence plane. The rear of nd 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 m the LISN 2.				
2	Test Mode:	All modes were tested, only the 802.11b was recorded in the r	ne worse case lowest c	hannel of 1Mbps for				

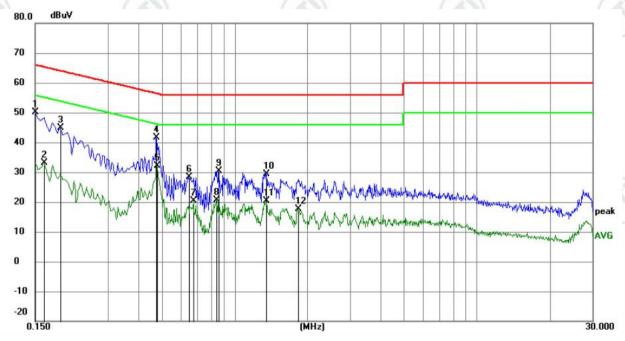


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Test Results:	Pass	C.2	C°2
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Measurement Data

Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	39.87	10.28	50.15	66.00	-15.85	QP		
2		0.1635	22.97	10.26	33.23	55.28	-22.05	AVG		
3		0.1905	34.78	10.22	45.00	64.01	-19.01	QP		
4		0.4740	31.58	10.08	41.66	56.44	-14.78	QP		
5	*	0.4785	22.10	10.08	32.18	46.37	-14.19	AVG		
6		0.6450	18.26	10.11	28.37	56.00	-27.63	QP		
7		0.6765	10.24	10.12	20.36	46.00	-25.64	AVG		
8		0.8430	10.35	10.18	20.53	46.00	-25.47	AVG		
9		0.8610	20.26	10.17	30.43	56.00	-25.57	QP		
10		1.3470	19.32	10.18	29.50	56.00	-26.50	QP		
11		1.3470	10.11	10.18	20.29	46.00	-25.71	AVG		
12		1.8240	7.34	10.17	17.51	46.00	-28.49	AVG		

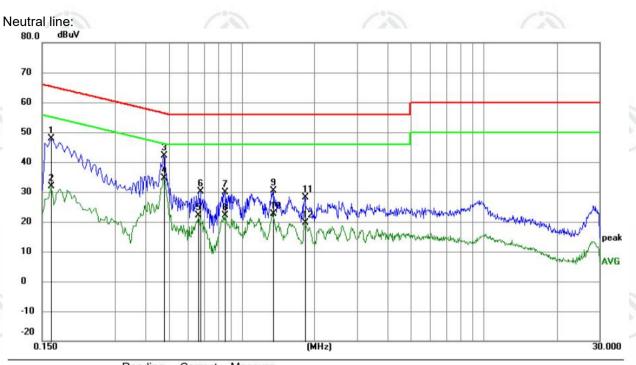
Remark

- 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.









No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
it .		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	37.61	10.26	47.87	65.28	-17.41	QP	
2		0.1635	21.74	10.26	32.00	55.28	-23.28	AVG	
3		0.4785	31.96	10.08	42.04	56.37	-14.33	QP	
4	*	0.4785	24.55	10.08	34.63	46.37	-11.74	AVG	
5		0.6630	11.91	10.12	22.03	46.00	-23.97	AVG	
6		0.6765	19.89	10.12	30.01	56.00	-25.99	QP	
7		0.8520	19.64	10.17	29.81	56.00	-26.19	QP	
8		0.8565	12.02	10.17	22.19	46.00	-23.81	AVG	
9		1.3470	20.12	10.18	30.30	56.00	-25.70	QP	
10		1.3470	12.43	10.18	22.61	46.00	-23.39	AVG	
11		1.8285	17.96	10.17	28.13	56.00	-27.87	QP	
12		1.8330	9.50	10.17	19.67	46.00	-26.33	AVG	

Remark:

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









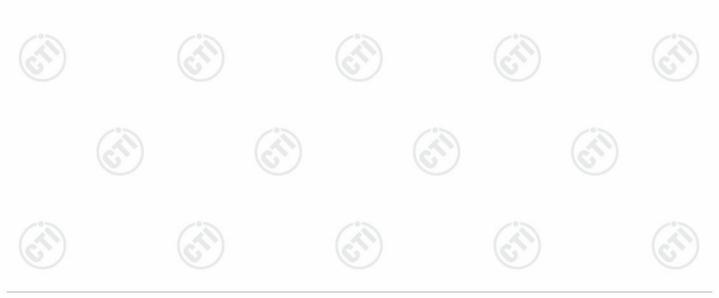






6.3 Maximum Conducted Output Power

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





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6.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10 2013						
Test Setup:							
	Control Computer Power Supply Table RF test System RSystem Instrument RF test System 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						







6.5 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)							
Test Method:	ANSI C63.10 2013							
Test Setup:		(ii)						
	Control Computer Power Supply Power Table EUT RF test System RF test System Instrumer	nt						
	Remark: Offset=Cable loss+ attenuation factor.							
Test Procedure:	 a) Set analyzer center frequency to DTS channel center by Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. 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 determine the within the RBW. j) If measured value exceeds requirement, then rethan 3 kHz) and repeat. 	maximum amplitude level						
Limit:	≤8.00dBm/3kHz							
Test Mode:	Refer to clause 5.3							
Test Results:	Refer to Appendix A							







6.6 Band Edge Measurements and Conducted Spurious Emission

47 CFR Part 15C Section 15.247 (d)						
ANSI C63.10 2013						
RF test Control Control Power Supply Power Supply RF test System Instrument Remark: Offset=Cable loss+ attenuation factor.						
a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.						
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.						
Refer to clause 5.3						
Refer to Appendix A						







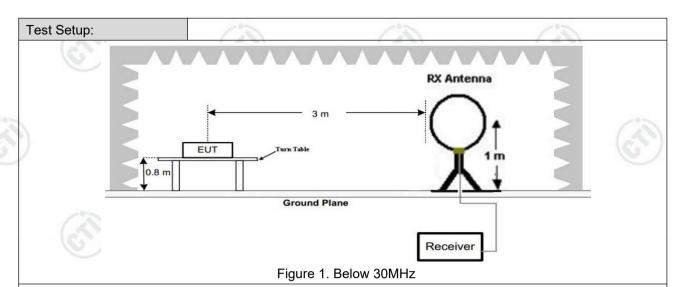
6.7 Radiated Spurious Emission & Restricted bands

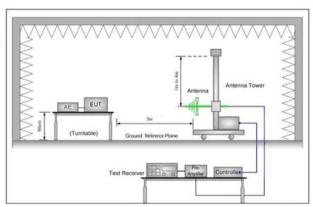
Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205			
Test Method:	ANSI C63.10 2013						
Test Site:	Measurement Distance:	: 3m	(Semi-Anech	noic Cham	ber))	or Gran
Receiver Setup:	Frequency	10	Detector	RBW	1	VBW	Remark
	0.009MHz-0.090MHz	0.009MHz-0.090MHz				30kHz	Peak
	0.009MHz-0.090MHz	z	Average	10kHz	_	30kHz	Average
	0.090MHz-0.110MHz	z	Quasi-peak	10kHz	_	30kHz	Quasi-peak
	0.110MHz-0.490MHz	z	Peak	10kHz	2	30kHz	Peak
	0.110MHz-0.490MHz	z	Average	10kHz	2	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	2	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kH	Iz 300kHz		Quasi-peak
	Above 4015	Above 1GHz			<u> </u>	3MHz	Peak
	Above IGHZ	"	Peak	1MHz	10kHz		Average
Limit:	Frequency	Field strength (microvolt/meter)		Limit (dBuV/m)	Remark		Measuremen distance (m)
	0.009MHz-0.490MHz	2	400/F(kHz)	-	- /*>		300
	0.490MHz-1.705MHz	24	000/F(kHz)	-		(6)	30
	1.705MHz-30MHz		30	-			30
	30MHz-88MHz		100	40.0	Qu	ıasi-peak	3
	88MHz-216MHz		150	43.5	Qu	ıasi-peak	3
	216MHz-960MHz	9	200	46.0	Qu	ıasi-peak	3
	960MHz-1GHz	/	500	54.0	Qu	ıasi-peak	3
	Above 1GHz		500	54.0	Average		3
	Note: 15.35(b), left frequency emissions is limit applicable to the expeak emission level rad	20d quip	B above the i	maximum est. This p	perr	mitted ave	erage emission





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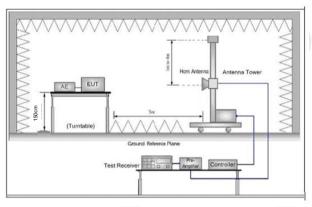


Figure 2. 30MHz to 1GHz

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:

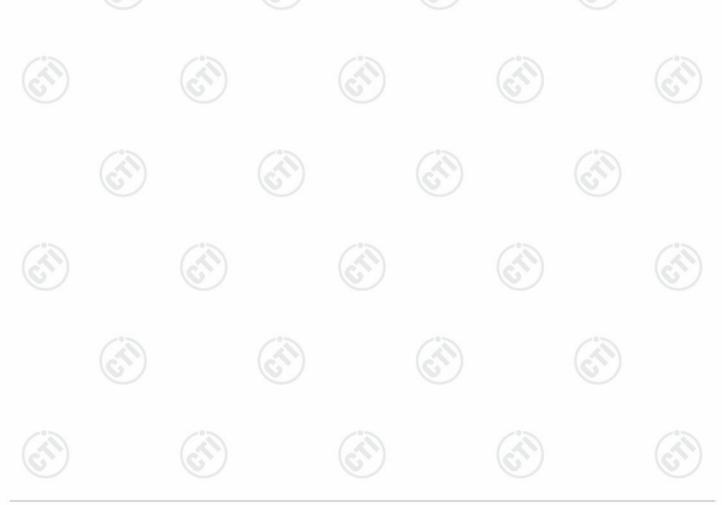
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. 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.
	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.



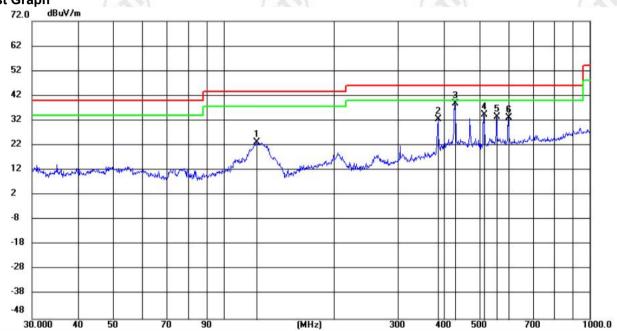


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Radiated Spurious Emission below 1GHz:

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

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		123.0926	11.74	11.39	23.13	43.50	-20.37	QP	199	278	
2		385.6859	13.28	19.16	32.44	46.00	-13.56	QP	100	130	
3	*	428.5449	18.87	19.94	38.81	46.00	-7.19	QP	100	120	
4		514.2639	13.05	21.17	34.22	46.00	-11.78	QP	100	296	
5		557.1649	11.23	22.26	33.49	46.00	-12.51	QP	199	268	
6		600.0571	9.82	23.35	33.17	46.00	-12.83	QP	199	320	







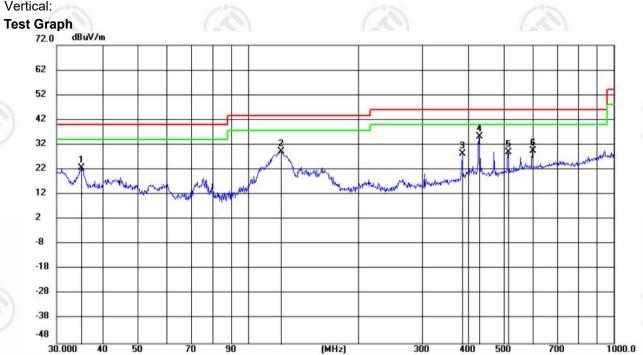






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Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		35.0478	10.14	12.64	22.78	40.00	-17.22	QP	100	24	
2		123.0280	17.85	11.40	29.25	43.50	-14.25	QP	100	56	
3		385.6860	9.07	19.16	28.23	46.00	-17.77	QP	200	69	
4	*	428.9960	15.18	19.94	35.12	46.00	-10.88	QP	200	196	
5		514.3541	7.84	21.17	29.01	46.00	-16.99	QP	200	48	
6		599.9521	6.16	23.35	29.51	46.00	-16.49	QP	100	45	





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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; only the worst case was recorded in the report.

Mode	:		802.11 b Tran	smitting		Chann	el:	2412MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1353.7569	10.15	36.54	46.69	74.00	27.31	PASS	Н	PK
2	2081.4054	15.19	37.35	52.54	74.00	21.46	PASS	Н	PK
3	3325.0217	-12.95	54.04	41.09	74.00	32.91	PASS	Н	PK
4	5825.0883	-7.33	49.34	42.01	74.00	31.99	PASS	Н	PK
5	7837.6225	-2.89	47.26	44.37	74.00	29.63	PASS	Н	PK
6	11277.0018	4.26	45.47	49.73	74.00	24.27	PASS	Н	PK
7	1207.8805	8.73	37.74	46.47	74.00	27.53	PASS	V	PK
8	2085.0057	15.16	37.35	52.51	74.00	21.49	PASS	V	PK
9	3094.2563	-13.78	54.33	40.55	74.00	33.45	PASS	V	PK
10	4515.9011	-9.02	49.89	40.87	74.00	33.13	PASS	V	PK
11	6799.5033	-4.87	47.01	42.14	74.00	31.86	PASS	V	PK
12	9484.1823	1.99	44.80	46.79	74.00	27.21	PASS	V	PK

Mode	:		802.11 b Trar	nsmitting		Channe	el:	2437MH	<u>z</u>
NO	Freq. [MHz]	Factor	r Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1420.2947	10.63	37.50	48.13	74.00	25.87	PASS	Н	PK
2	2144.6096	14.96	36.65	51.61	74.00	22.39	PASS	Н	PK
3	3443.3296	-12.73	53.19	40.46	74.00	33.54	PASS	Н	PK
4	5264.1009	-9.36	48.78	39.42	74.00	34.58	PASS	Н	PK
5	7026.3684	-5.17	47.45	42.28	74.00	31.72	PASS	Н	PK
6	11958.2472	5.88	44.91	50.79	74.00	23.21	PASS	Н	PK
7	1241.7494	8.59	37.06	45.65	74.00	28.35	PASS	V	PK
8	2066.3378	15.33	36.82	52.15	74.00	21.85	PASS	V	PK
9	3802.8035	-12.01	52.26	40.25	74.00	33.75	PASS	V	PK
10	6100.7067	-5.76	47.12	41.36	74.00	32.64	PASS	V	PK
11	8727.5318	-1.22	46.06	44.84	74.00	29.16	PASS	V	PK
12	11251.6501	5.77	44.45	50.22	74.00	23.78	PASS	V	PK













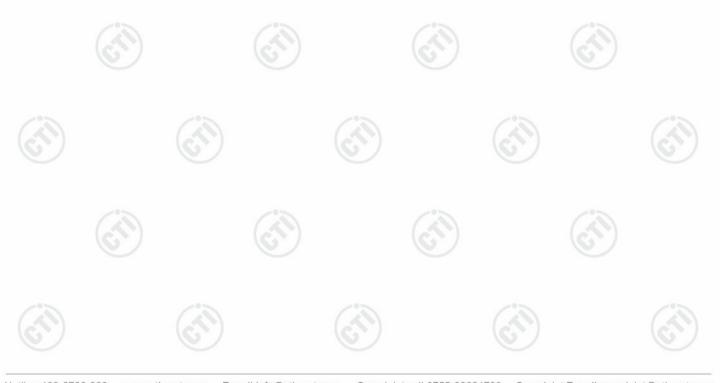
Report No.: EED32R80300003



							1 10			* D. J.	
	Mode	:		802	2.11 b Tran	smitting		Channe	el:	2462MH	Z
	ОИ	Freq. [MHz]	Factor	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1406.0271	10.63		37.58	48.21	74.00	25.79	PASS	Н	PK
ò	2	2030.0687	14.97		37.13	52.10	74.00	21.90	PASS	Н	PK
100	3	3330.8721	-12.86	;	53.71	40.85	74.00	33.15	PASS	Н	PK
	4	5203.6469	-9.15		48.82	39.67	74.00	34.33	PASS	Н	PK
	5	7371.5414	-4.36		48.62	44.26	74.00	29.74	PASS	Н	PK
	6	11948.4966	5.80		44.94	50.74	74.00	23.26	PASS	Н	PK
	7	1285.7524	9.30		38.00	47.30	74.00	26.70	PASS	V	PK
	8	1797.2532	14.13		38.24	52.37	74.00	21.63	PASS	V	PK
	9	3335.4224	-12.79		54.23	41.44	74.00	32.56	PASS	V	PK
	10	4707.6638	-9.11		49.51	40.40	74.00	33.60	PASS	V	PK
9	11	6805.3537	-4.91		47.83	42.92	74.00	31.08	PASS	V	PK
	12	9795.553	3.26		44.48	47.74	74.00	26.26	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
- 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.



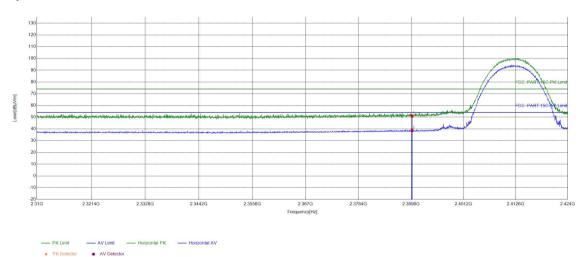




Restricted bands:

Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			



3	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2390	15.31	35.67	50.98	74.00	23.02	PASS	Horizontal	PK	
	2	2390	15.31	23.29	38.60	54.00	15.40	PASS	Horizontal	AV	







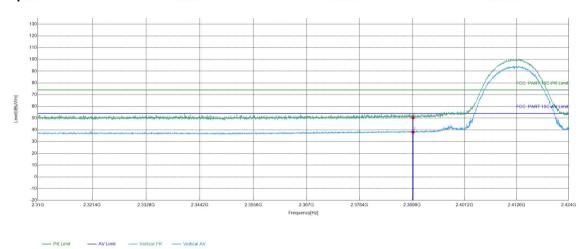








6.	(6.70)	100	16.3
EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			



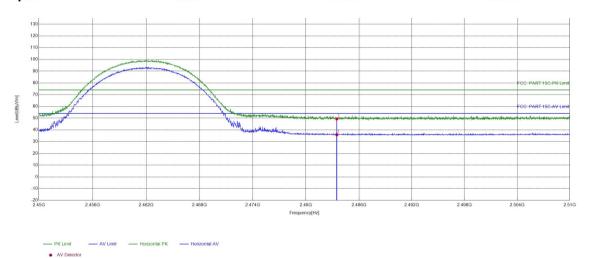
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	35.08	50.39	74.00	23.61	PASS	Vertical	PK
2	2390	15.31	22.77	38.08	54.00	15.92	PASS	Vertical	AV







0.70	1000	10.	16.37
EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark	(1)		CO.



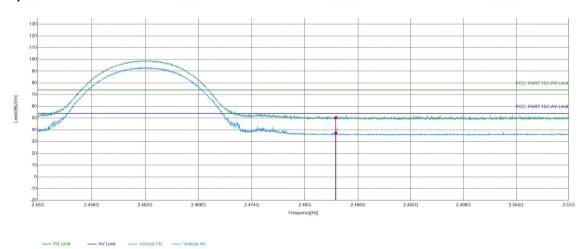
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	15.16	34.23	49.39	74.00	24.61	PASS	Horizontal	PK	
2	2483.5	15.16	20.76	35.92	54.00	18.08	PASS	Horizontal	AV	



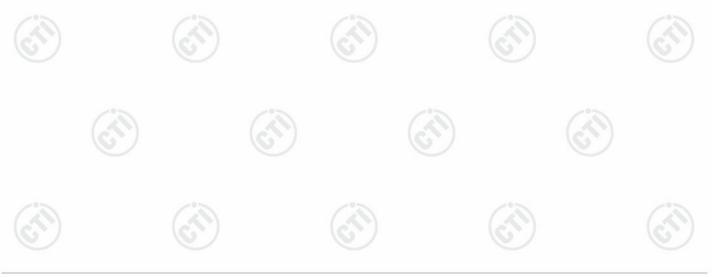




6.7	(6.5)	(6.5)	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 b Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark	C.S		Cil



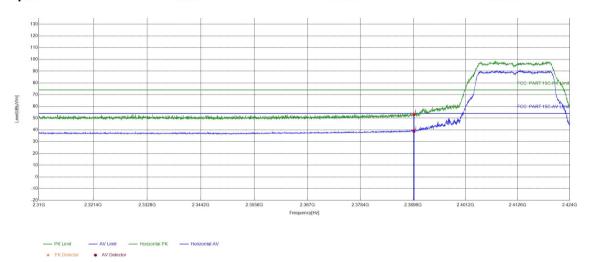
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	15.16	35.30	50.46	74.00	23.54	PASS	Vertical	PK		
2	2483.5	15.16	22.03	37.19	54.00	16.81	PASS	Vertical	AV		



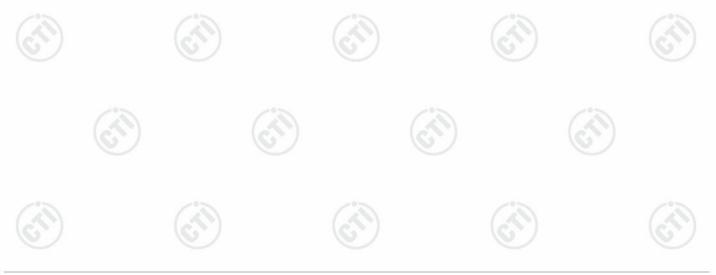




6.7	1000	(6.20)	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark	Ci)		



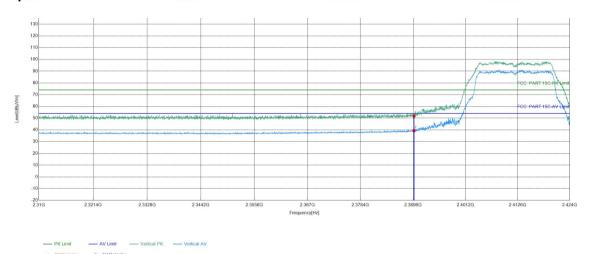
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390	15.31	37.83	53.14	74.00	20.86	PASS	Horizontal	PK		
2	2390	15.31	23.59	38.90	54.00	15.10	PASS	Horizontal	AV		



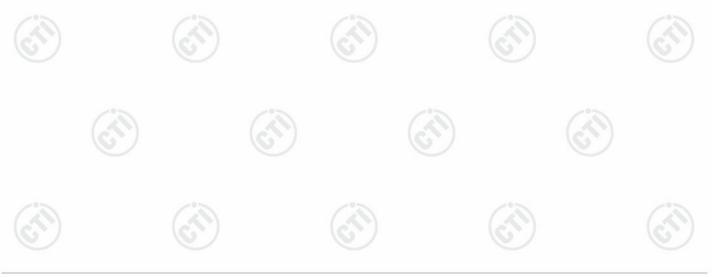




6.7	(635)	(6.7)	(8.5)
EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			Ci



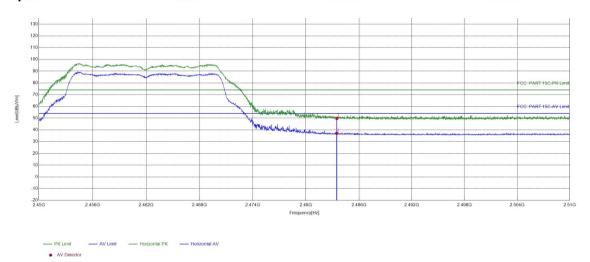
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390	15.31	36.48	51.79	74.00	22.21	PASS	Vertical	PK		
2	2390	15.31	24.03	39.34	54.00	14.66	PASS	Vertical	AV		



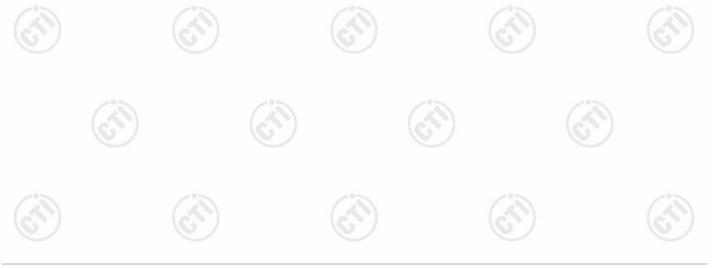




6.7	1000	(6.20)	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			Cil



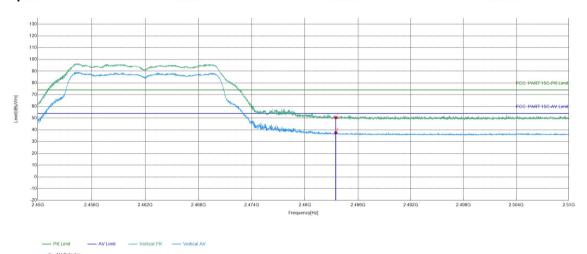
Suspecte	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	15.16	34.58	49.74	74.00	24.26	PASS	Horizontal	PK	
2	2483.5	15.16	21.96	37.12	54.00	16.88	PASS	Horizontal	AV	



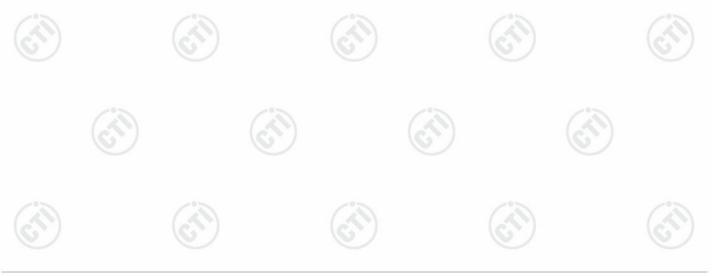




6.7	1000	(6.20)	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 g Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			Cil



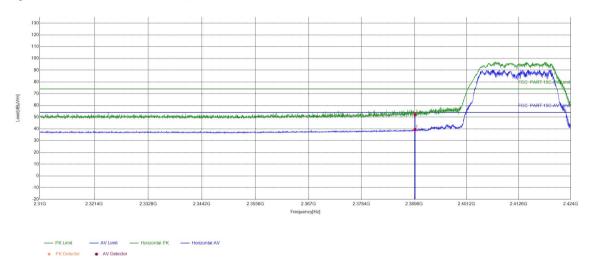
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5	15.16	35.28	50.44	74.00	23.56	PASS	Vertical	PK		
2	2483.5	15.16	22.40	37.56	54.00	16.44	PASS	Vertical	AV		



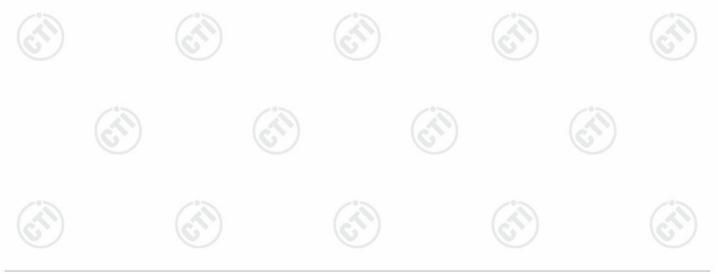




6.	16.	10.	16.3
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			



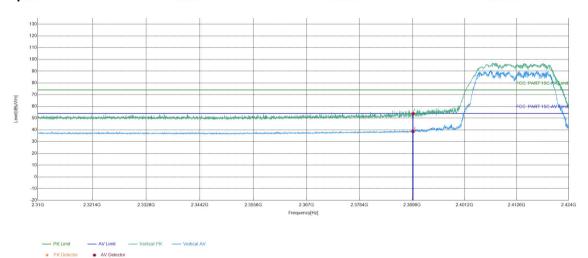
Suspecte	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390	15.31	36.91	52.22	74.00	21.78	PASS	Horizontal	PK		
2	2390	15.31	24.17	39.48	54.00	14.52	PASS	Horizontal	AV		



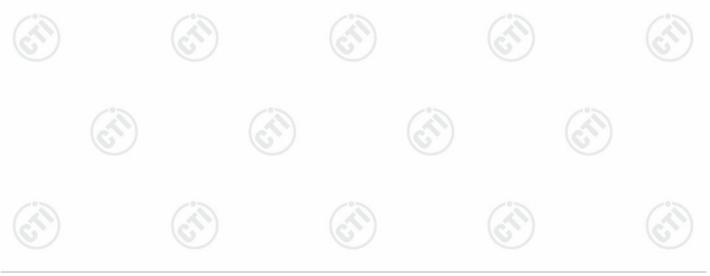




6.	16.	10.	16.3
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			



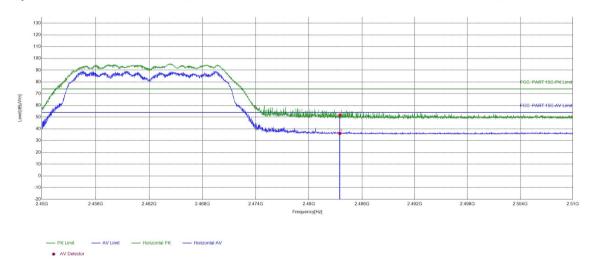
5	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	15.31	38.52	53.83	74.00	20.17	PASS	Vertical	PK
	2	2390	15.31	23.27	38.58	54.00	15.42	PASS	Vertical	AV



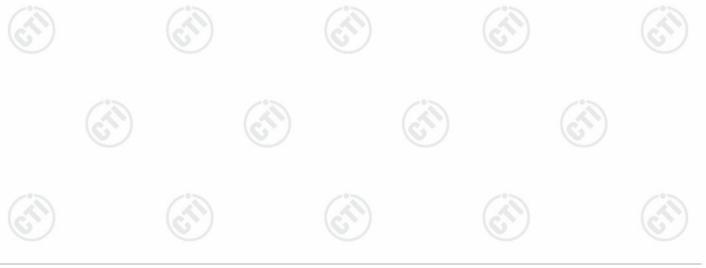




6.7	1000	16.2	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			Cil



Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	15.16	36.71	51.87	74.00	22.13	PASS	Horizontal	PK	
2	2483.5	15.16	20.98	36.14	54.00	17.86	PASS	Horizontal	AV	

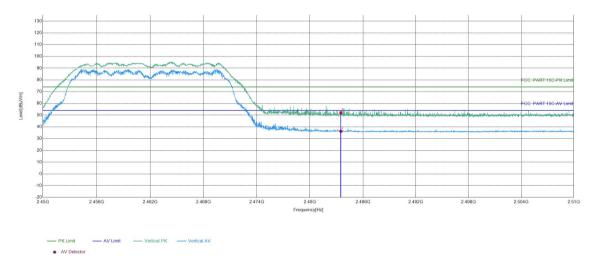




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6.7	(6.50)	100	16.5
EUT_Name		Test_Model	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/26
Remark			

Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	36.97	52.13	74.00	21.87	PASS	Vertical	PK
2	2483.5	15.16	21.09	36.25	54.00	17.75	PASS	Vertical	AV

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







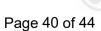




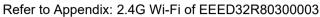








7 Appendix A



























































































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9 PHOTOGRAPHS OF EUT Constructional Details







Statement

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full;

