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TEST REPORT

Product: NAVIGATION MULTIMEDIA RECEIVER

Trade mark : Stinger

Model/Type reference : iE268, iE268-C, iE268-SR, iE268E

Serial Number : N/A

Report Number : EED32Q81282703

FCC ID : XBD-IE268

Date of Issue : Oct. 18, 2024

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

AAMP of Florida, Inc. dba AAMP Global 15500 Lightwave Drive, Suite 202 Clearwater, FL 33760

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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2 Version

Version No.	Date	6	Description	
00	Oct. 18, 2024		Original	
	**	/2	C°	/2
((92)	(62)	(6,1)













































































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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	N/A	
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	

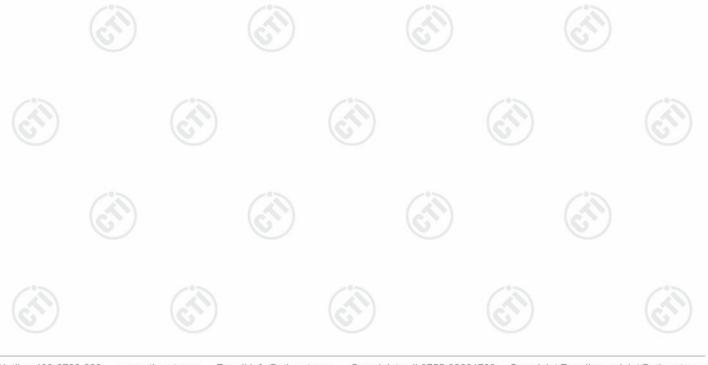
Remark:

N/A: This item is not applicable.

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.: iE268, iE268-C, iE268-SR, iE268E

Only the model iE268 was tested. They have same electrical circuit design. Only the model names are different for marketing requirements.







4 General Information

4.1 Client Information

Applicant:	AAMP of Florida, Inc. dba AAMP Global
Address of Applicant:	15500 Lightwave Drive, Suite 202 Clearwater, FL 33760
Manufacturer:	Skypine Electronics (ShenZhen)Co., Ltd.
Address of Manufacturer:	3rd Floor of Building B, Jingang Technology Park, Qiaotou Village, Fuhai Sub-District, Baoan, Shenzhen, China
Factory:	Unistrong Intelligence Manufacturing (Henan) Technology Co., Ltd.
Address of Factory:	Building No.33, Building No.31, Zone A, Intelligent Terminal (Mobile Phone) Industrial Park, Intersection of Hua Xia Avenue and Renmin Road, Zhengzhou Airport Economy Zone Zhengzhou City, Henan Province, P. R. China Post Code: 451163

4.2 General Description of EUT

Product Name:	NAVIGATION MULTIMEDIA RECEIVER
Model No.:	iE268, iE268-C, iE268-SR, iE268E
Test Model No.:	iE268
Trade mark:	Stinger
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
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:	PCB Antenna
Antenna Gain:	-2.45 dBi
Power Supply:	DC 12V
Test Voltage:	DC 12V
Sample Received Date:	Sep. 06, 2024
Sample tested Date:	Sep. 06, 2024 to Sep. 26, 2024





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12		(A)	7	(2)		1	
Operation	Frequency ea	ch of chann	el (802.11b/g/n	HT20)	1	(6,7)	1
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		(6)
Operation	Frequency ea	ch of chann	el (802.11n HT	40)			
Channel	Frequ	ency	Channel	Frequenc	cy Char	nnel F	requency
3	3 2422MHz		6	2437MHz		120	2452MHz
4	2427	MHz	7	2442MH	z		
5	2432	MHz	8	2447MH	z		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n (HT20)

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

802.11n (HT40)

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





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4.3 Test Configuration

EUT Test Software Setting	s:		
Test Software:	MobaXterm_Personal_22.1.exe	-0-	-0-
EUT Power Grade:	Default		(41)
Use test software to set the	owest frequency, the middle frequency ar	nd 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		
802.11n(HT40)	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) and MCS0 for 802.11n(HT40).





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4.4 Test Environment

	Operating Environment	t:								
	Radiated Spurious Emi	ssions:								
10	Temperature:	22~25.0 °C	(40)		(41)		(4)			
	Humidity:	50~55 % RH	0		(0)		(0)			
	Atmospheric Pressure:	1010mbar								
	Conducted Emissions:									
	Temperature:	22~25.0 °C		(2)		(30)				
	Humidity:	50~55 % RH		(0,)		(0,)				
	Atmospheric Pressure:	1010mbar								
	RF Conducted:									
	Temperature:	22~25.0 °C	(°)		(3)					
(i	Humidity:	50~55 % RH	(5,2)		(6,7)		(6.2)			
	Atmospheric 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	Asus	FL8700JP1065-	FCC&CE	СТІ
		0D8GXYQ2X10		

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

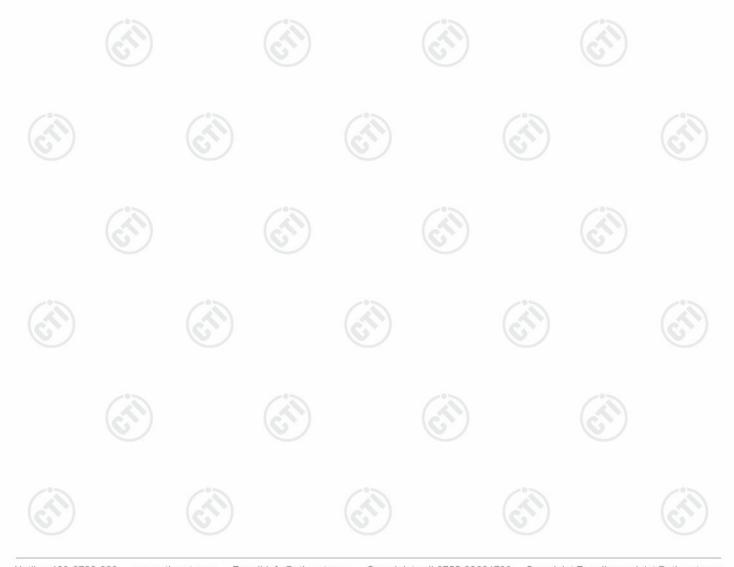




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4.7 Measurement Uncertainty (95% confidence levels, k=2)

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-40GHz)			
		3.3dB (9kHz-30MHz)			
2	Padiated Spurious emission test	4.3dB (30MHz-1GHz) 4.5dB (1GHz-18GHz)			
3	Radiated Spurious emission test				
(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	12-14-2023	12-13-2024	
Signal Generator	Keysight	N5182B	MY53051549	12-11-2023	12-10-2024	
DC Power	Keysight	E3642A	MY56376072	12-11-2023	12-10-2024	
Communication test set	R&S	CMW500	169004	03-08-2024	03-07-2025	
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	12-11-2023	12-10-2024	
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	01-17-2024	01-16-2025	





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3N	Semi-anechoic	Cnamber (2)- Rad	nated distur	rbance lest		
Equipment	Manufacturer	Model No.	Serial	Cal. date	Cal. Due date	
Equipment	Manuacturer	Wiodei No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)	
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025	
Receiver	R&S	ESCI7	100938- 003	09/22/2023 09/07/2024	09/21/2024 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	04/15/2025	
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024	
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	04/15/2025	
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025	
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		-	
Cable line	Fulai(6M)	SF106	5220/6A	(<u> </u>	
Cable line	Fulai(3M)	SF106	5216/6A			
Cable line	Fulai(3M)	SF106	5217/6A		- (2	





















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					10.	
		3M full-anechoi	c Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Fully Anechoic Chamber	TDK	TDK FAC-3		01-09-2024	01-08-2027	
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025	
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025	
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025	
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025	
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025	
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025	
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024	
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024	
Temperature/ Humidity Indicator	biaozhi	biaozhi GM1360		04-07-2024	04-06-2025	
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0			
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	- 0	(i)	
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		G	
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001			
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(<u>ii)</u>	
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		<u></u>	
Cable line	Times	HF160-KMKM-3.00M	393493-0001			

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)

15.203 requirement:

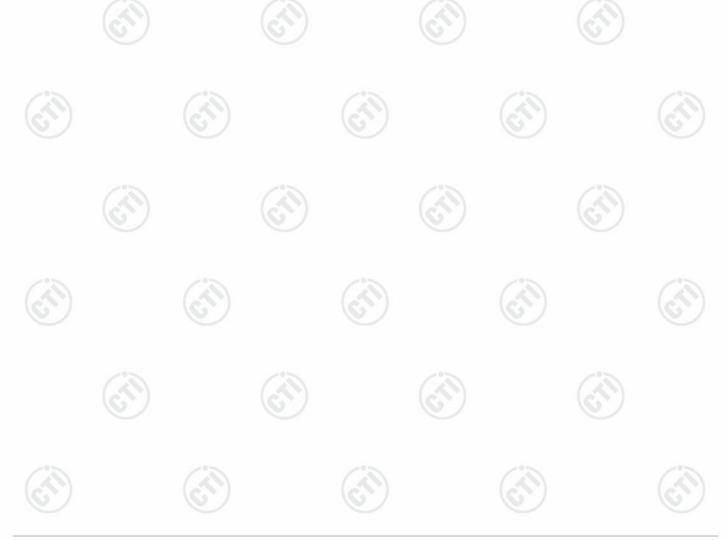
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 PCB antenna. The best case gain of the antenna is -2.45dBi.

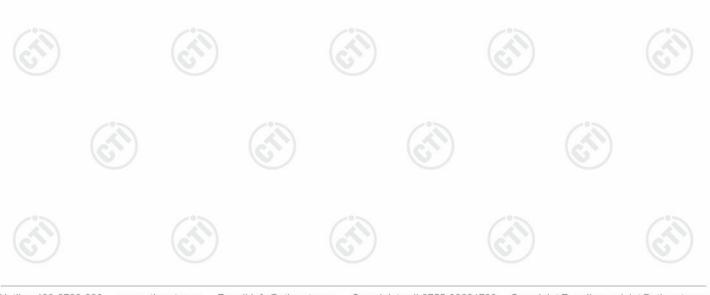




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6.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)						
Test Method:	ANSI C63.10 2013						
Test Setup:	(FI)						
	Control Contro						
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 2.4G Wi-Fi						





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6.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10 2013						
Test Setup:	(cit)						
	Control Computer Power Supply Power Table RF test System Instrument Table						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. 						
Limit:	≥ 500 kHz						
Test Mode:	Refer to clause 5.3						
Test Results:	Refer to Appendix 2.4G Wi-Fi						







6.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)							
Test Method:	ANSI C63.10 2013							
Test Setup:								
	Control Computer Power Supply Power Job Powe							
	Remark: Offset=Cable loss+ attenuation factor.							
Test Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) 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 maximum amplitude le within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no le than 3 kHz) and repeat. 							
Limit:	≤8.00dBm/3kHz							
Test Mode:	Refer to clause 5.3							
Test Results:	Refer to Appendix 2.4G Wi-Fi							







6.5 Band Edge Measurements and Conducted Spurious Emission

10.0	16.0
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Control Control Control Power poof Attenuator Instrument Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix 2.4G Wi-Fi

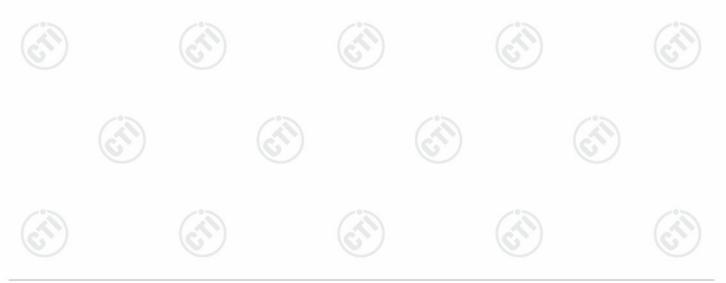






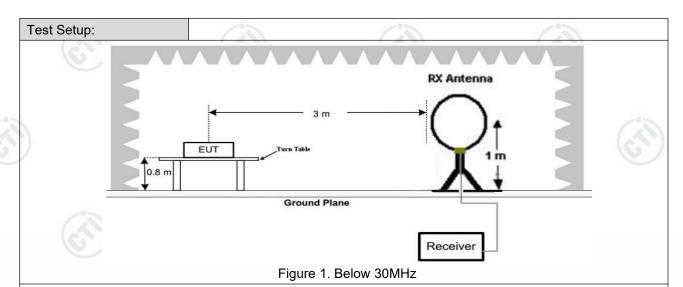
6.6 Radiated Spurious Emission & Restricted bands

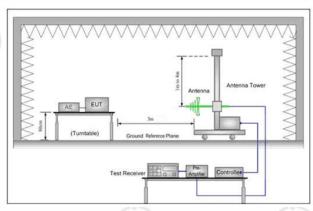
Test Requirement:	47 CFR Part 15C Sec	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013							
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency	Frequency			RBW		Remark		
	0.009MHz-0.090MI	Hz	Peak	10k	Hz	30kHz	Peak		
	0.009MHz-0.090MI	Hz	Average	10k	Hz	30kHz	Average		
	0.090MHz-0.110Ml	Hz	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak		
	0.110MHz-0.490Ml	Hz	Peak	10k	Hz	30kHz	Peak		
	0.110MHz-0.490Ml	Hz	Average	10k	Hz	30kHz	Average		
	0.490MHz -30MH	z	Quasi-pea	ak 10k	Hz	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-pea	ak 100	kHz	300kHz	Quasi-peak		
	Al 4011-	10	Peak	1M	Hz	3MHz	Peak		
	Above 1GHz		Peak	1M	Hz	10kHz	Average		
Limit:	Frequency		d strength ovolt/meter)	Limit (dBuV/m)	l Remark		Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)		-	-		300		
	0.490MHz-1.705MHz	240	00/F(kHz)	_	-		30		
	1.705MHz-30MHz		30	-	- 6		30		
	30MHz-88MHz	100		40.0	Quasi-peak		3		
	88MHz-216MHz	150		43.5	Quasi-peak		3		
	216MHz-960MHz	[1]	200	46.0	Quasi-peak		3		
	960MHz-1GHz		500	54.0	Qua	asi-peak	3		
	Above 1GHz	500		54.0	Average		3		
	Note: 15.35(b), frequency emissions i limit applicable to the peak emission level ra	s 20d equip	dB above the oment under	e maximu rtest. This	m pe	rmitted av	erage emissior		





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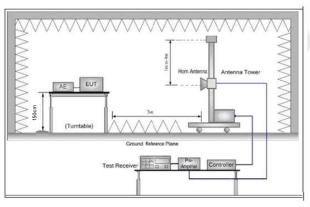


Figure 2. 30MHz to 1GHz

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:

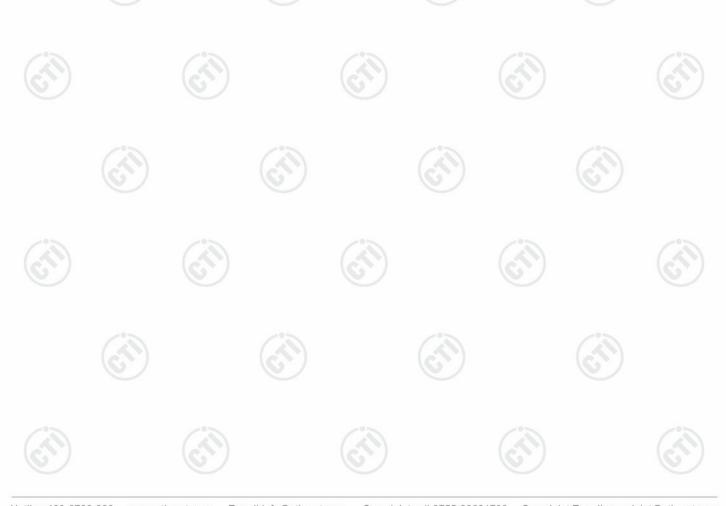
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.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





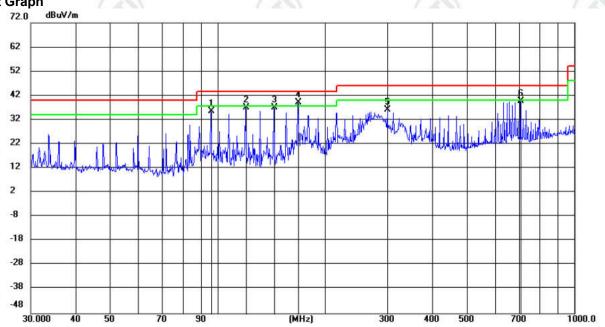
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Radiated Spurious Emission below 1GHz:

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:





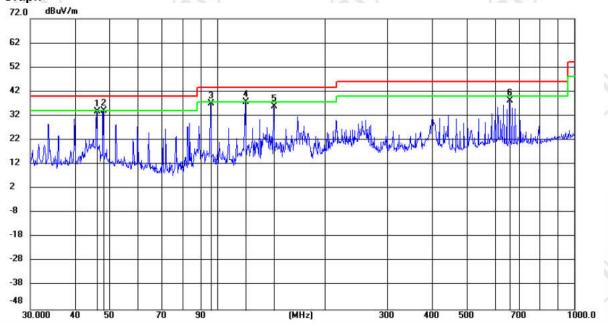
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		95.9975	23.00	12.57	35.57	43.50	-7.93	QP	100	8	
2		120.0027	25.51	11.66	37.17	43.50	-6.33	QP	100	19	
3		144.0061	27.81	9.16	36.97	43.50	-6.53	QP	100	8	
4	*	168.0008	28.06	10.99	39.05	43.50	-4.45	QP	100	29	
5		299.9988	20.09	16.15	36.24	46.00	-9.76	QP	100	144	
6		708.0641	16.77	23.12	39.89	46.00	-6.11	QP	100	217	





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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		46.0729	20.75	13.08	33.83	40.00	-6.17	QP	100	59	
2		48.0024	20.88	13.04	33.92	40.00	-6.08	QP	100	17	
3		95.9975	25.65	11.54	37.19	43.50	-6.31	QP	100	38	
4	*	120.0028	27.01	10.50	37.51	43.50	-5.99	QP	100	48	
5		144.0062	27.84	7.90	35.74	43.50	-7.76	QP	100	38	
6		660.1080	18.49	19.90	38.39	46.00	-7.61	QP	100	122	





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Radiated Spurious Emission above 1GHz:

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

٠.	7.1		12.0				1000			1
	Mode:			802.11 b Tran	Channe	el:	2412MHz			
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	1330.233	7.54	37.27	44.81	74.00	29.19	PASS	Н	PK
	2	1706.2706	9.12	37.79	46.91	74.00	27.09	PASS	Н	PK
Ī	3	3475.0317	-17.58	53.84	36.26	74.00	37.74	PASS	Н	PK
Ī	4	4824.1216	-12.66	62.90	50.24	74.00	23.76	PASS	Н	PK
>	5	7236.2824	-4.05	48.13	44.08	74.00	29.92	PASS	Н	PK
	6	13853.7236	10.57	41.21	51.78	74.00	22.22	PASS	Н	PK
	7	1277.4277	6.62	38.22	44.84	74.00	29.16	PASS	V	PK
	8	1940.494	12.10	35.69	47.79	74.00	26.21	PASS	V	PK
Ī	9	3781.0521	-15.87	52.09	36.22	74.00	37.78	PASS	V	PK
	10	4824.1216	-12.66	63.29	50.63	74.00	23.37	PASS	V	PK
Ī	11	8770.3847	-0.33	45.72	45.39	74.00	28.61	PASS	V	PK
Ī	12	15903.8603	10.11	40.46	50.57	74.00	23.43	PASS	V	PK

M	Mode:			802.11 b Trai	nsmitting		Channe	el:	2437MHz	
N	10	Freq. [MHz]	Facto [dB]	Dooding	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1159.616	7.41	37.60	45.01	74.00	28.99	PASS	Н	PK
	2	1613.8614	8.51	37.01	45.52	74.00	28.48	PASS	Н	PK
,	3	3341.0227	-16.63	3 52.75	36.12	74.00	37.88	PASS	Н	PK
	4	4874.1249	-12.08	8 59.53	47.45	74.00	26.55	PASS	Н	PK
	5	7127.2752	-4.43	3 47.21	42.78	74.00	31.22	PASS	Н	PK
	6	11997.5998	6.19	43.42	49.61	74.00	24.39	PASS	Н	PK
	7	1377.6378	8.14	37.31	45.45	74.00	28.55	PASS	V	PK
3	8	2122.9123	10.44	4 37.11	47.55	74.00	26.45	PASS	V	PK
	9	3363.0242	-16.7	1 53.36	36.65	74.00	37.35	PASS	V	PK
1	0	4874.1249	-12.08	8 58.57	46.49	74.00	27.51	PASS	V	PK
1	1	9046.4031	1.08	45.09	46.17	74.00	27.83	PASS	V	PK
1	2	16420.8947	9.73	40.72	50.45	74.00	23.55	PASS	V	PK













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ı	Mode	:		802.11 b Trar	nsmitting		Channe	el:	2462MH	Z
	NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	1315.8316	7.35	36.79	44.14	74.00	29.86	PASS	Н	PK
	2	1934.8935	11.93	36.55	48.48	74.00	25.52	PASS	Н	PK
	3	4924.1283	-13.45	5 57.37	43.92	74.00	30.08	PASS	Н	PK
	4	7747.3165	-2.08	46.16	44.08	74.00	29.92	PASS	Н	PK
	5	11964.5976	6.23	43.95	50.18	74.00	23.82	PASS	Н	PK
	6	16413.8943	9.86	41.54	51.40	74.00	22.60	PASS	Н	PK
	7	1145.0145	7.57	37.59	45.16	74.00	28.84	PASS	V	PK
	8	1847.0847	10.76	36.41	47.17	74.00	26.83	PASS	V	PK
	9	3430.0287	-16.87	7 53.50	36.63	74.00	37.37	PASS	V	PK
	10	4924.1283	-13.45	5 57.25	43.80	74.00	30.20	PASS	V	PK
9	11	7786.3191	-2.32	45.98	43.66	74.00	30.34	PASS	V	PK
1	12	11960.5974	6.25	45.11	51.36	74.00	22.64	PASS	V	PK
	13	15897.8599	10.35	40.79	51.14	74.00	22.86	PASS	V	PK

	Mode	:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2422MH	Z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1147.0147	7.63	37.15	44.78	74.00	29.22	PASS	Н	PK
	2	1939.0939	12.06	36.57	48.63	74.00	25.37	PASS	Н	PK
	3	3330.022	-16.80	55.32	38.52	74.00	35.48	PASS	Н	PK
	4	6100.2067	-7.50	46.72	39.22	74.00	34.78	PASS	Н	PK
	5	10446.4964	5.79	42.85	48.64	74.00	25.36	PASS	Н	PK
	6	15889.8593	10.09	40.53	50.62	74.00	23.38	PASS	Н	PK
	7	1151.4151	7.69	37.48	45.17	74.00	28.83	PASS	V	PK
	8	1948.2948	12.34	36.24	48.58	74.00	25.42	PASS	V	PK
	9	3330.022	-16.80	53.42	36.62	74.00	37.38	PASS	V	PK
	10	5949.1966	-8.52	47.31	38.79	74.00	35.21	PASS	V	PK
	11	10450.4967	6.09	42.66	48.75	74.00	25.25	PASS	V	PK
3	12	15886.8591	9.99	40.04	50.03	74.00	23.97	PASS	V	PK
	0.1		1 60 91		1		7 70 7			1 49 91













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	Mada			000 44 /1174	O T '''		04078411			
	Mode	:		802.11 n(HT4	·0) Transmitti	ing	Channe	el:	2437MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1233.6234	6.01	37.78	43.79	74.00	30.21	PASS	Н	PK
3	2	1855.2855	10.83	36.06	46.89	74.00	27.11	PASS	Н	PK
	3	3328.0219	-16.83	54.09	37.26	74.00	36.74	PASS	Н	PK
	4	5754.1836	-9.25	47.95	38.70	74.00	35.30	PASS	Н	PK
	5	10965.531	6.11	44.02	50.13	74.00	23.87	PASS	Н	PK
	6	15257.8172	12.27	38.75	51.02	74.00	22.98	PASS	Н	PK
	7	1155.8156	7.54	38.25	45.79	74.00	28.21	PASS	V	PK
	8	1933.4933	11.89	35.66	47.55	74.00	26.45	PASS	V	PK
	9	3789.0526	-15.61	51.90	36.29	74.00	37.71	PASS	V	PK
	10	6362.2241	-7.91	48.71	40.80	74.00	33.20	PASS	V	PK
3	11	11233.5489	6.95	44.69	51.64	74.00	22.36	PASS	V	PK
V	12	15250.8167	13.62	37.10	50.72	74.00	23.28	PASS	V	PK

Mode	:	8	02.11 n(HT4	0) Transmitti	ng	Channe	el:	2452MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1198.8199	6.10	38.16	44.26	74.00	29.74	PASS	Н	PK
2	1865.4865	10.84	35.88	46.72	74.00	27.28	PASS	Н	PK
3	3339.0226	-16.66	52.80	36.14	74.00	37.86	PASS	Н	PK
4	5408.1605	-10.46	48.74	38.28	74.00	35.72	PASS	Н	PK
5	7356.2904	-3.71	46.39	42.68	74.00	31.32	PASS	Н	PK
6	13843.7229	10.64	41.33	51.97	74.00	22.03	PASS	Н	PK
7	1257.8258	6.16	37.12	43.28	74.00	30.72	PASS	V	PK
8	1951.6952	12.28	35.82	48.10	74.00	25.90	PASS	V	PK
9	3557.0371	-16.93	52.76	35.83	74.00	38.17	PASS	V	PK
10	6888.2592	-4.21	46.48	42.27	74.00	31.73	PASS	V	PK
11	10898.5266	7.34	43.00	50.34	74.00	23.66	PASS	V	PK
12	16601.9068	11.14	39.65	50.79	74.00	23.21	PASS	V	PK











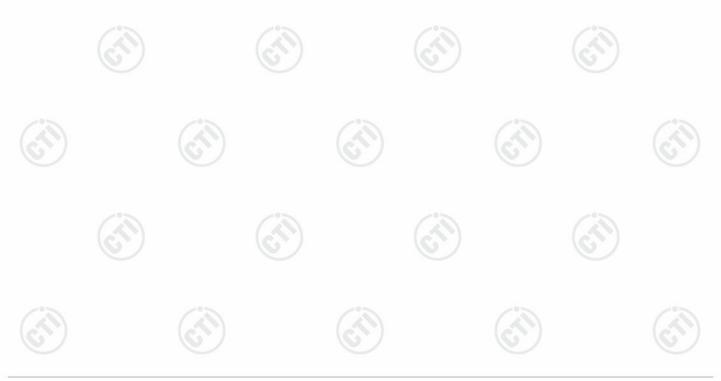


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								100	
2.4G	Wi-Fi+5G Wi-Fi								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1439.0439	8.34	37.00	45.34	74.00	28.66	PASS	Н	PK
2	2087.5088	10.51	36.28	46.79	74.00	27.21	PASS	Н	PK
3	3433.0289	-16.82	53.23	36.41	74.00	37.59	PASS	Н	PK
4	6102.2068	-7.52	47.78	40.26	74.00	33.74	PASS	Н	PK
5	9652.4435	3.20	43.40	46.60	74.00	27.40	PASS	Н	PK
6	15895.8597	10.28	39.86	50.14	74.00	23.86	PASS	Н	PK
7	1408.2408	8.41	37.35	45.76	74.00	28.24	PASS	V	PK
8	2083.5084	10.54	36.30	46.84	74.00	27.16	PASS	V	PK
9	3339.0226	-16.66	53.06	36.40	74.00	37.60	PASS	V	PK
10	5497.1665	-10.49	47.89	37.40	74.00	36.60	PASS	V	PK
11	10224.4816	3.14	45.21	48.35	74.00	25.65	PASS	V	PK
12	15902.8602	10.19	40.21	50.40	74.00	23.60	PASS	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



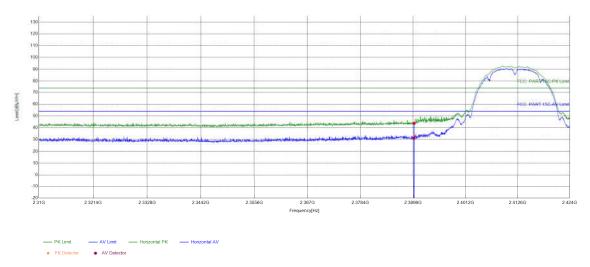




Restricted bands:

Test plot as follows:

Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23
Remark	1		



Suspecto	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	6.12	37.70	43.82	74.00	30.18	PASS	Horizontal	PK
2	2390	6.12	25.04	31.16	54.00	22.84	PASS	Horizontal	AV







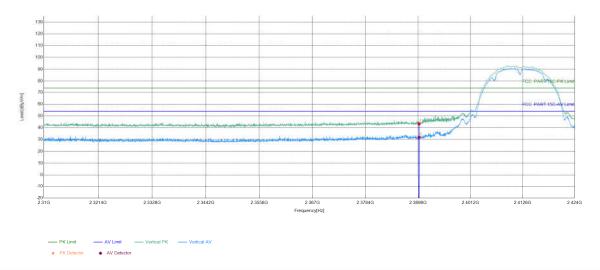




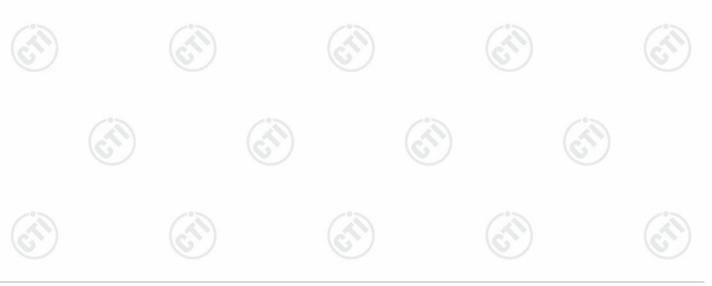


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Test_Mode	802.11 b Transmitting	Test_Frequency	2412MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1				



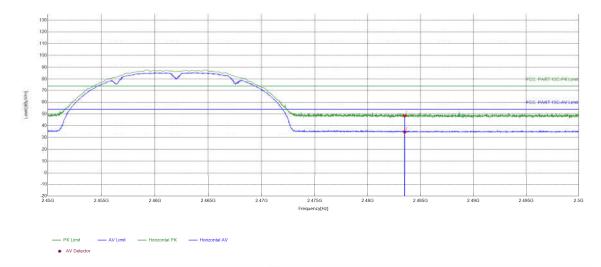
~											
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
Ī	1	2390	6.12	37.18	43.30	74.00	30.70	PASS	Vertical	PK	
	2	2390	6.12	25.77	31.89	54.00	22.11	PASS	Vertical	AV	



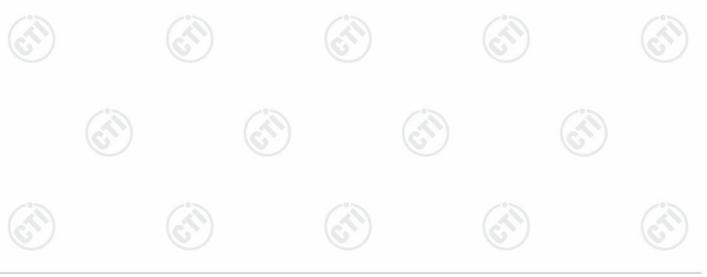


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C	1022	100	1627		
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1				



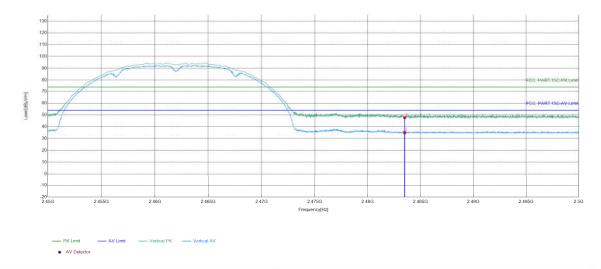
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	37.13	48.45	74.00	25.55	PASS	Horizontal	PK
2	2483.5	11.32	23.45	34.77	54.00	19.23	PASS	Horizontal	AV



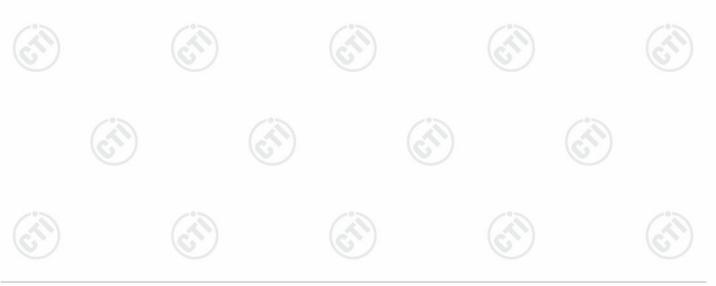


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C	1022	100	1627		
Test_Mode	802.11 b Transmitting	Test_Frequency	2462MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1				



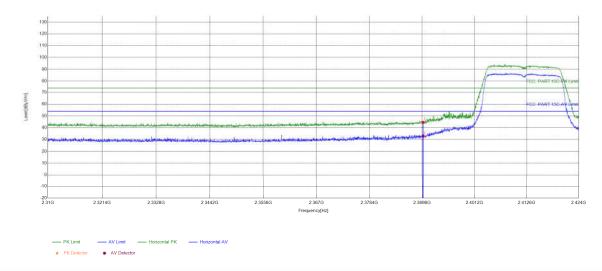
a .											
	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
Ī	1	2483.5	11.32	36.45	47.77	74.00	26.23	PASS	Vertical	PK	
	2	2483.5	11.32	23.70	35.02	54.00	18.98	PASS	Vertical	AV	





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Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz 2024\09\23		
Tset_Engineer	Aiden.wang	Test_Date			
Remark	1				



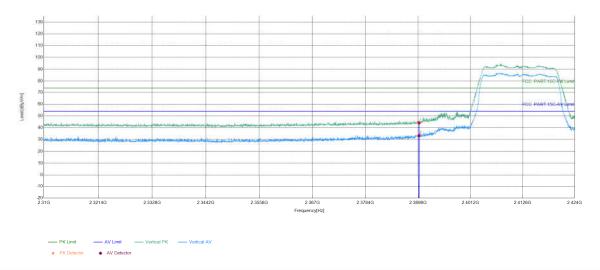
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	6.12	38.50	44.62	74.00	29.38	PASS	Horizontal	PK
	2	2390	6.12	26.81	32.93	54.00	21.07	PASS	Horizontal	AV



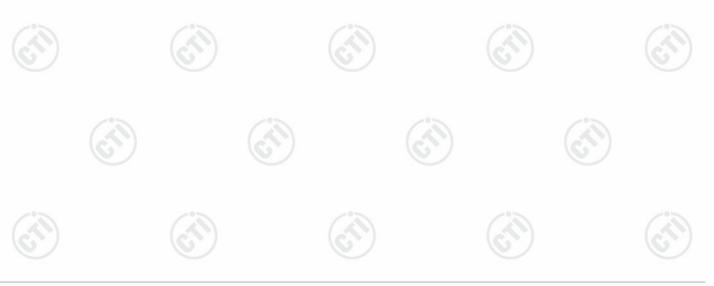


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C	1022	100	1627		
Test_Mode	802.11 g Transmitting	Test_Frequency	2412MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1				



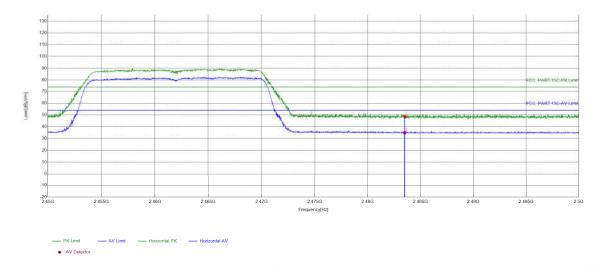
۵.											
	Suspecte	d List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2390	6.12	38.03	44.15	74.00	29.85	PASS	Vertical	PK	
	2	2390	6.12	27.18	33.30	54.00	20.70	PASS	Vertical	AV	





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6.51	(0.5)	LCA L	162
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23
Remark	1		



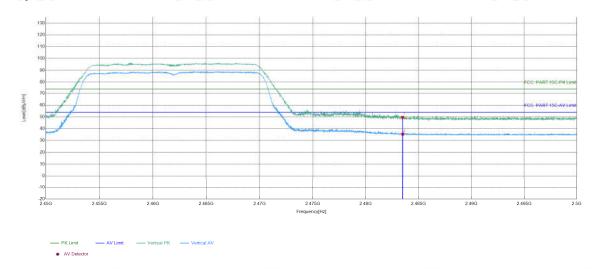
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	11.32	37.31	48.63	74.00	25.37	PASS	Horizontal	PK
	2	2483.5	11.32	23.54	34.86	54.00	19.14	PASS	Horizontal	AV





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6.71	(0.50)	(6.71)	162		
Test_Mode	802.11 g Transmitting	Test_Frequency	2462MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1	`			



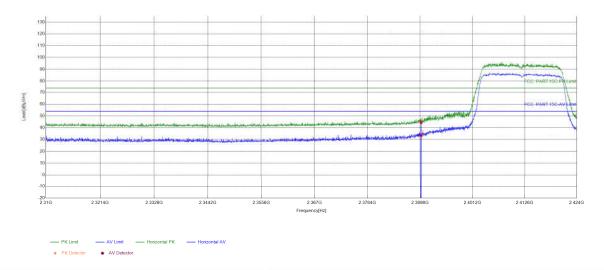
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.32	38.37	49.69	74.00	24.31	PASS	Vertical	PK
2	2483.5	11.32	24.09	35.41	54.00	18.59	PASS	Vertical	AV



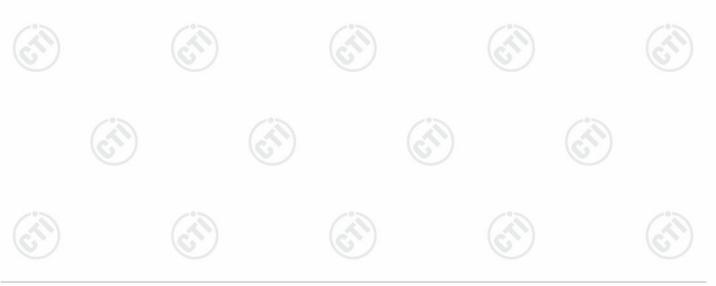


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	16.4	16.4.	164		
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz 2024\09\23		
Tset_Engineer	Aiden.wang	Test_Date			
Remark	1				



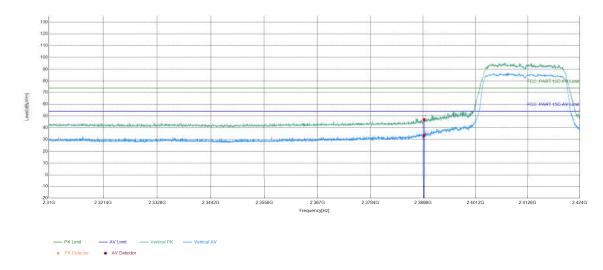
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	6.12	38.40	44.52	74.00	29.48	PASS	Horizontal	PK
	2	2390	6.12	27.58	33.70	54.00	20.30	PASS	Horizontal	AV



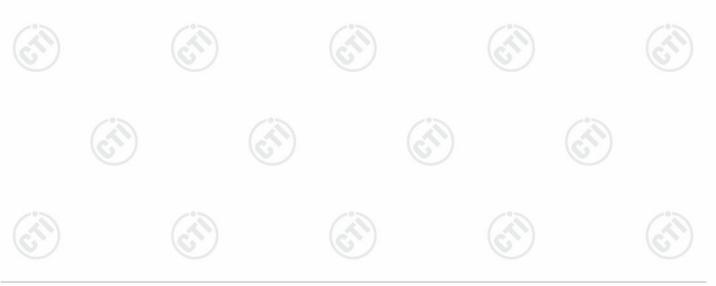


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CAT /	1627	M. A. T.	16027	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz	
Tset_Engineer Aiden.wang		Test_Date	2024\09\23	
Remark	1			



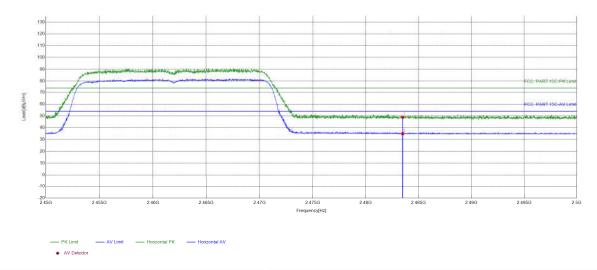
۵.												
	Suspecte	d List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
Ī	1	2390	6.12	40.97	47.09	74.00	26.91	PASS	Vertical	PK		
	2	2390	6.12	27.31	33.43	54.00	20.57	PASS	Vertical	AV		



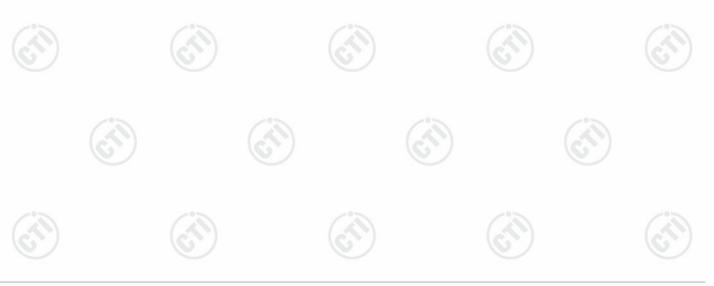


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CAT I	ACCAN	16.4.	16.7.7		
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz		
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23		
Remark	1				



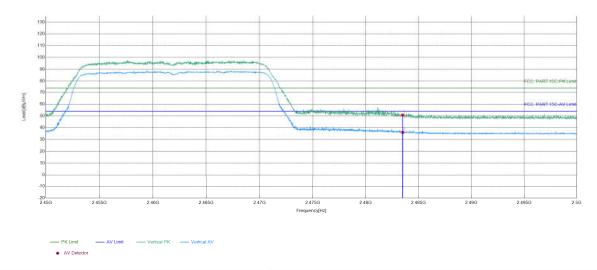
	Suspecte	d List								
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	11.32	37.63	48.95	74.00	25.05	PASS	Horizontal	PK
	2	2483.5	11.32	23.58	34.90	54.00	19.10	PASS	Horizontal	AV



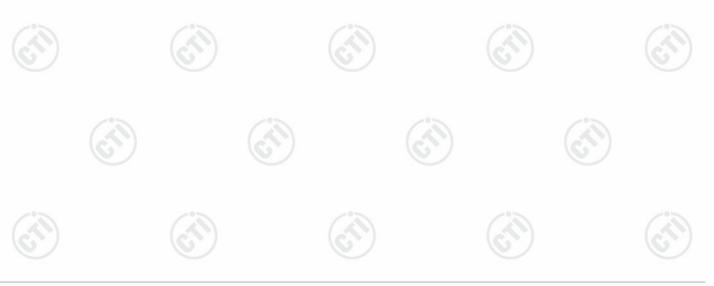


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CAT /	1674	LICAT- I	16047	
Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz	
Tset_Engineer Aiden.wang		Test_Date	2024\09\23	
Remark	1			



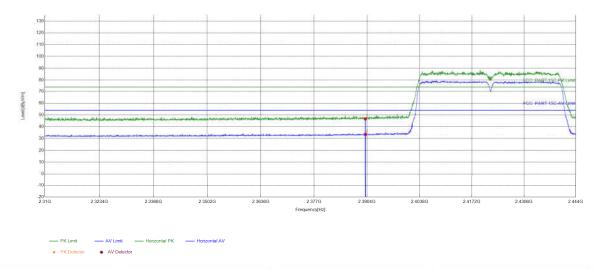
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2483.5	11.32	39.49	50.81	74.00	23.19	PASS	Vertical	PK
	2	2483.5	11.32	24.75	36.07	54.00	17.93	PASS	Vertical	AV



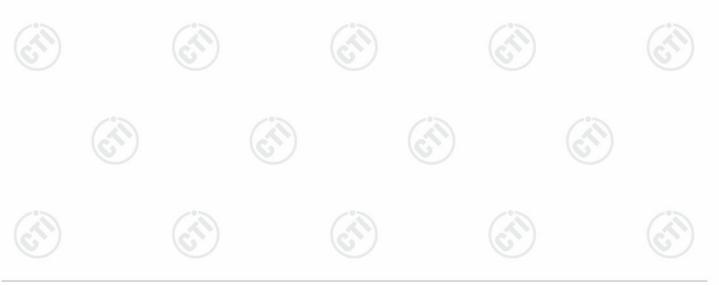




CAT /	ACC A TOP	1000	16047	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz	
Tset_Engineer Aiden.wang		Test_Date	2024\09\23	
Remark	1			



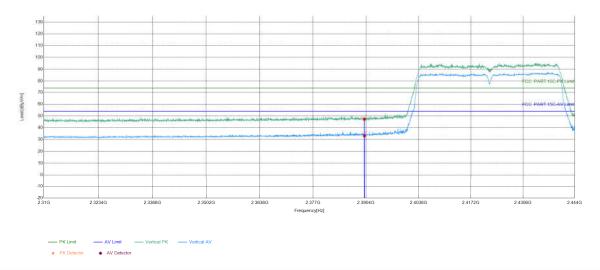
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	11.29	35.37	46.66	74.00	27.34	PASS	Horizontal	PK
2	2390	11.29	22.22	33.51	54.00	20.49	PASS	Horizontal	AV



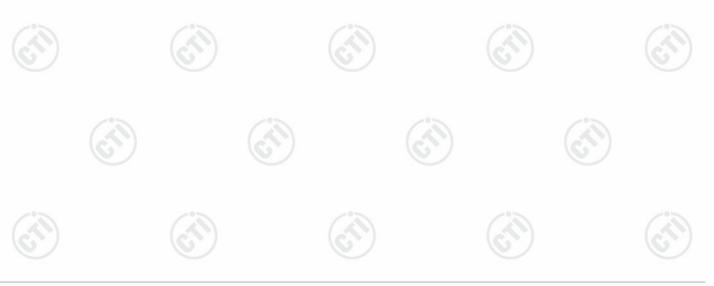




C. V. J.	16.7	16.5	1627	
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz	
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23	
Remark	1			



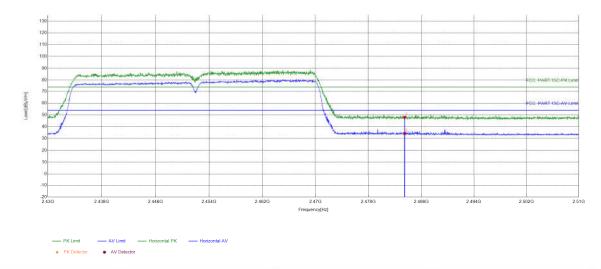
	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
Ī	1	2390	11.29	36.00	47.29	74.00	26.71	PASS	Vertical	PK
	2	2390	11.29	21.98	33.27	54.00	20.73	PASS	Vertical	AV





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6.7	(6.70)	100	1627
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer Aiden.wang		Test_Date	2024\09\23
Remark	\		



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	11.45	36.65	48.10	74.00	25.90	PASS	Horizontal	PK
2	2483.5	11.45	22.86	34.31	54.00	19.69	PASS	Horizontal	AV

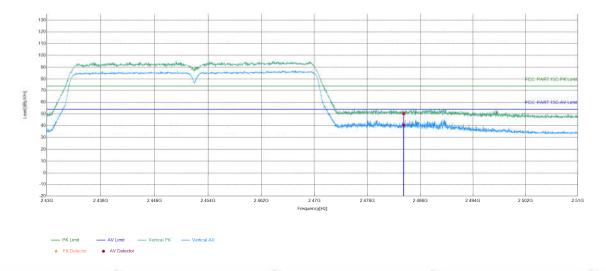




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	16.	100	102
Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024\09\23
Remark	\		

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	11.45	38.75	50.20	74.00	23.80	PASS	Vertical	PK
	2	2483.5	11.45	29.22	40.67	54.00	13.33	PASS	Vertical	AV

Note:

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

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor





















7 Appendix 2.4G Wi-Fi

Refer to Appendix: 2.4G Wi-Fi of EED32Q81282703





































































































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9 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32Q81282701 for EUT external and internal photos.

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