



Page 1 of 58

Product Echelon Strength Cable Crossover Pro Trade mark 5 Echelon Model/Type reference ECH-STCROSS-s-22 Serial Number N/A **Report Number** EED32Q80705103 2 FCC ID 2AWD4-STCROSS22 • Date of Issue Oct. 31, 2024 **Test Standards** 47 CFR Part 15 Subpart C Test result PASS Prepared for: Echelon Fitness Multimedia, LLC 605 Chestnut Street Suite 700, Chattanooga, TN USA 37450 Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385 Firazer. Lo Compiled by: even lan. Reviewed by: Keven Tan Frazer Li avon Ma Oct. 31. 2024 Date: Aaron Ma Check No.: 6737240524 Report Seal

TEST REPORT





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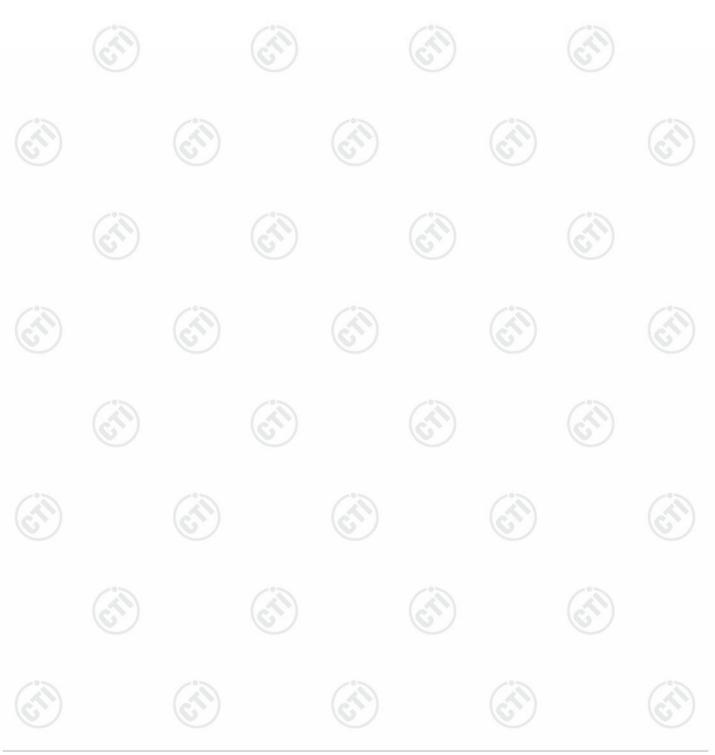
Page 2 of 58

		••••••••••••••••••••••••••••••••••••	
2 VERSION			
3 TEST SUMMARY			
4 GENERAL INFORMATION		<u></u>	
 4.1 CLIENT INFORMATION		6)
5 EQUIPMENT LIST			
	A T A		
6 TEST RESULTS AND MEASUREMENT D			
6.1 ANTENNA REQUIREMENT	<u>()</u>	<u>()</u>	<u>v</u>
6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSIONS		<u>(6)</u>	<u>()</u>
6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSIONS 6.3 MAXIMUM CONDUCTED OUTPUT POWER.		<u>(6)</u>	<u>(</u>)
 6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSIONS 6.3 MAXIMUM CONDUCTED OUTPUT POWER 6.4 DTS BANDWIDTH 		<u>(6)</u>	<u>()</u>
 6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSIONS 6.3 MAXIMUM CONDUCTED OUTPUT POWER 6.4 DTS BANDWIDTH 6.5 MAXIMUM POWER SPECTRAL DENSITY 		<u>(6)</u>	
 6.1 ANTENNA REQUIREMENT 6.2 AC POWER LINE CONDUCTED EMISSIONS 6.3 MAXIMUM CONDUCTED OUTPUT POWER 6.4 DTS BANDWIDTH 	JCTED SPURIOUS EMISSION		
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2 Version

Version No.	Date	Date		
00	Oct. 31, 2024		Original	
	100	13	(°)	15
	(5)	$(c \sim)$	(25)	(5)





Lost Summary



Page 4 of 58

Test Requirement	Result
47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
47 CFR Part 15 Subpart C Section 15.207	PASS
47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
47 CFR Part 15 Subpart C Section 15.247(d)	PASS
47 CFR Part 15 Subpart C Section 15.247(d)	PASS
47 CFR Part 15 Subpart C Section 15.205/15.209	PASS
	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)47 CFR Part 15 Subpart C Section 15.20747 CFR Part 15 Subpart C Section 15.247 (a)(2)47 CFR Part 15 Subpart C Section 15.247 (b)(3)47 CFR Part 15 Subpart C Section 15.247 (b)(3)47 CFR Part 15 Subpart C Section 15.247 (e)47 CFR Part 15 Subpart C Section 15.247(d)47 CFR Part 15 Subpart C Section 15.247(d)

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.





4 General Information

4.1 Client Information

Applicant:	Echelon Fitness Multimedia, LLC	
Address of Applicant:	605 Chestnut Street Suite 700, Chattanooga, TN USA 37450	
Manufacturer:	Guangzhou Yuandong Smart Sports Technology Co., Ltd	12
Address of Manufacturer:	Room 192 Kezhu Road, Huangpu District, Guangzhou	(2)
Factory:	Shandong Relax Sports Technology Co.,Ltd.	J
Address of Factory:	No. 101 Shantou Road, Rizhao, Shandong, China	

4.2 General Description of EUT

and the loss of th	the State of the S
Product Name:	Echelon Strength Cable Crossover Pro
Model No.:	ECH-STCROSS-s-22
Trade mark:	Echelon
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)
Number of Channel:	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK,BPSK) 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:	ANT 1: 3.99dBi ANT 2: 3.88dBi
Power Supply:	Adapter: DC12V
Test Voltage:	DC12V
Sample Received Date:	Jul. 23, 2024
Sample tested Date:	Jul. 23, 2024 to Aug. 14, 2024
0	











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	Frequence	cy Char	nnel F	requency
3	24221	MHz	6	2437MH	z 9	120	2452MHz
4	24271	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









Page 7 of 58

4.3 Test Configuration

Test Software:	adb.exe		
EUT Power Grade:	Default	(A)	a
Use test software to set th transmitting of the EUT.	e lowest frequency, the middle frequ	ency and the highest frequency keep	6
Test Mode:			
the EUT in transmitting op	truction and function in typical operat eration, which was shown in this test rate in lowest channel, and found	•	ut with
the EUT in transmitting op Per-scan all kind of data	eration, which was shown in this test	report and defined as follows:	ut with
the EUT in transmitting op Per-scan all kind of data was worst case.	eration, which was shown in this test	report and defined as follows:	ut with
the EUT in transmitting op Per-scan all kind of data was worst case. Mo	eration, which was shown in this test rate in lowest channel, and found	report and defined as follows: the follow list which it	ut with
the EUT in transmitting op Per-scan all kind of data was worst case. Mo 802	eration, which was shown in this test rate in lowest channel, and found	report and defined as follows: the follow list which it Data rate	ut with
the EUT in transmitting op Per-scan all kind of data was worst case. Mo 802 802	eration, which was shown in this test rate in lowest channel, and found ode .11b	report and defined as follows: the follow list which it Data rate 1Mbps	ut with

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).











Page 8 of 58

4.4 Test Environment

	Operating Environment	:					
200	Radiated Spurious Emi	ssions:					
192	Temperature:	22~25.0 °C	(1)		(2)		(2)
2	Humidity:	50~55 % RH	e la		C		C
	Atmospheric Pressure:	1010mbar					
	Conducted Emissions:						
	Temperature:	22~25.0 °C	1	2			
	Humidity:	50~55 % RH	(5)		G	
	Atmospheric Pressure:	1010mbar		<u> </u>			
	RF Conducted:	·					
~	Temperature:	22~25.0 °C	1		1		13
	Humidity:	50~55 % RH	<u>(</u>)		(\mathcal{A})		(c^{γ})
~	Atmospheric Pressure:	1010mbar	0		U		U

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1)	support equipment	
1/	Support equipment	

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	HP	DESKTOP-	FCC&CE	СТІ
		H31GDCQ		0

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

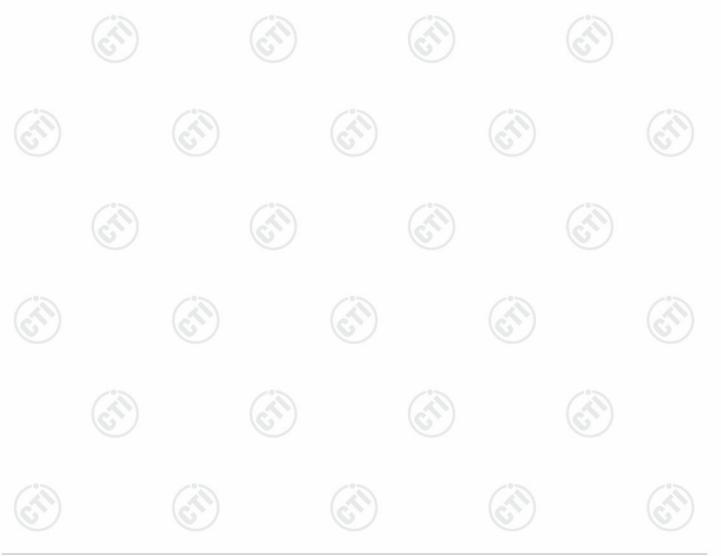
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted.

FCC Designation No.: CN1164





2	PE newer conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
5	Naulated Spurious emission test	4.5dB (1GHz-18GHz)
		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%



Measurement Uncertainty (95% confidence levels, k=2) 4.7 No. **Measurement Uncertainty**

Item



Page 9 of 58

7.9 x 10⁻⁸



5 Equipment List

Page 10 of 58

	1	RF te	st system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy) 06-25-2025			
Communication test set	R&S	CMW500	107929	06-26-2024				
Signal Generator	R&S SMBV100A		1407.6004K02- 262149-CV	09-05-2023	09-04-2024			
Spectrum Analyzer	R&S FSV40		101200	07-18-2024	07-17-2025			
RF control	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025			
High-low temperature test chamber	Dong Guang Qin Zhuo		LK-80GA QZ20150611879		QZ20150611879	11-12-2023	12-10-2024	
Temperature/ Humidity Indicator	biaozhi	НМ10	1804186	05-29-2024 05-28-20				
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	(A)	(6			
Spectrum Analyzer	R&S	FSV3044	101509	01-17-2024	01-16-2025			
	0			(N N			

			Serial	Cal. date	Cal. Due date	
Equipment	Manufacturer	Model No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)	
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025	
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025	
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024	
Barometer	changchun	DYM3	1188		99	
Test software	Fara	EZ-EMC	EMC-CON 3A1.1			
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025	
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024	









Page 11 of 58

Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/22/2023	09/21/2024
ectrum 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	$(\underline{\circ})$	
Cable line	Fulai(7M)	SF106	5219/6A		
Cable line	Fulai(6M)	SF106	5220/6A		
Cable line	Fulai(3M)	SF106	5216/6A		
Cable line	Fulai(3M)	SF106	5217/6A		







Page 12 of 58

		3M full-anechoi	c Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		6
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
pectrum Analyzer	Keysight	N9020B	MY57111112	01-19-2024	01-18-2025
pectrum Analyzer	Keysight	N9030B	MY57140871	01-13-2024	01-12-2025
TRILOG Broadband Antenna			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	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	(2
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		- 0
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	(\bigcirc)	
Cable line	Times	EMC104-NMNM-1000	SN160710		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(<u> </u>
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	(9
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		
Cable line	Times	HF160-KMKM-3.00M	393493-0001		- 6



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 FPC antenna. The best case gain of the antenna 1 is 3.99dBi. The best case gain of the antenna 2 is 3.88dBi.







Hotline:400-6788-333













Page 14 of 58

6.2 AC Power Line Conducted Emissions

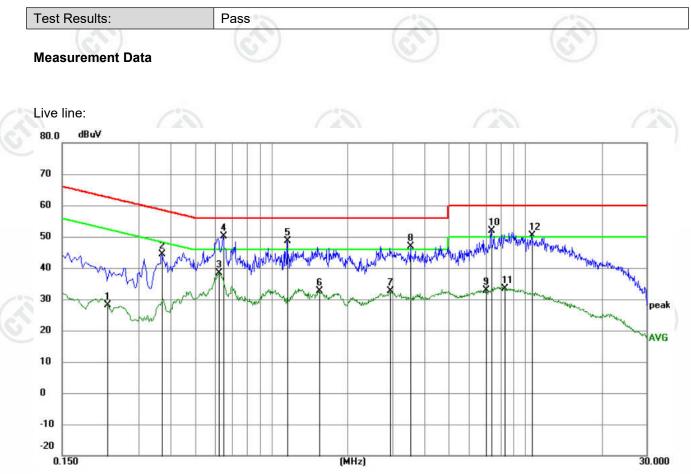
Test Requirement:	47 CFR Part 15C Section 15.	207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
Receiver setup:	RBW=9 kHz, VBW=30 kHz, S	Sweep time=auto		13
Limit:		(dBuV)	(6)	
	Frequency range (MHz)	Quasi-peak	Average	~
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithr			
Test Setup:				
	AC Mains	AE E E E E E E E E E E E E E E E E E E	Test Receiver	
				a shield SN 1 (Lin + 5Ω line EUT we d referen easured. cables to above th e EUT w for LISI for LISI for LISI for LISI as betwee of the EU equipme
Test Procedure:	 The mains terminal distur- room. The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way multiple socket outlet strip single LISN provided the r The tabletop EUT was pla ground reference plane. A placed on the horizontal g The test was performed w the EUT shall be 0.4 m vertical ground reference reference plane. The LISI unit under test and bor mounted on top of the gro the closest points of the and associated equipmen In order to find the maxim and all of the interface ca 	to AC power source Network) which provide cables of all other SN 2, which was bond as the LISN 1 for the owas used to connect rating of the LISN was aced upon a non-met And for floor-standing a ground reference plane ith a vertical ground re- from the tertical ground re- from tertical	e through a LISN es a $50\Omega/50\mu$ H + units of the E ed to the ground f e unit being mea multiple power ca not exceeded. allic table 0.8m a arrangement, the arrangement, the set ference plane. The und reference plane from the bounda efference plane for This distance was All other units of the LISN 2. tive positions of e	N 1 (Lin 5Ω linea UT wer reference asured. ables to ables to bove th EUT wa ne rear of ane. Th al groun ary of th or LISN betwee the EU
Test Mode:	ANSI C63.10: 2013 on con All modes were tested, only the			for
logi modo.		10 100130 0030 1010051		







Page 15 of 58



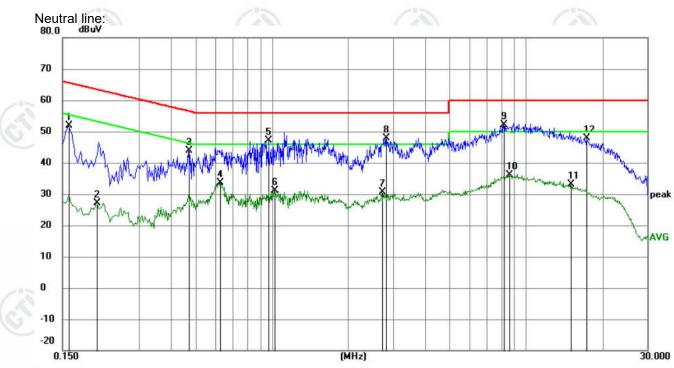
No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2265	18.30	9.78	28.08	52.58	-24.50	AVG	
2		0.3704	34.73	9.72	44.45	58.49	-14.04	QP	
3		0.6225	28.67	9.68	38.35	46.00	-7.65	AVG	
4	*	0.6450	40.24	9.78	50.02	56.00	-5.98	QP	
5		1.1535	38.82	9.74	48.56	56.00	-7.44	QP	
6		1.5405	22.84	9.75	32.59	46.00	-13.41	AVG	
7		2.9400	22.87	9.78	32.65	46.00	-13.35	AVG	
8		3.5385	36.98	9.80	46.78	56.00	-9.22	QP	
9		7.0170	23.05	9.85	32.90	50.00	-17.10	AVG	
10		7.3410	42.00	9.85	51.85	60.00	-8.15	QP	
11		8.2815	23.64	9.84	33.48	50.00	-16.52	AVG	
12		10.5990	40.46	9.83	50.29	60.00	-9.71	QP	

Remark:

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



Page 16 of 58



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1590	42.02	9.85	51.87	65.52	-13.65	QP	
2	0.2040	17.31	9.86	27.17	53.45	-26.28	AVG	
3	0.4695	34.05	9.78	43.83	56.52	-12.69	QP	
4	0.6270	23.95	9.70	33.65	46.00	-12.35	AVG	
5	0.9690	37.39	9.76	47.15	56.00	-8.85	QP	
6	1.0230	21.30	9.74	31.04	46.00	-14.96	AVG	
7	2.7105	20.75	9.77	30.52	46.00	-15.48	AVG	
8	2.8184	38.14	9.77	47.91	56.00	-8.09	QP	
9 *	8.1555	42.28	9.84	52.12	60.00	-7.88	QP	
10	8.5875	26.23	9.84	36.07	50.00	-13.93	AVG	
11	15.0000	23.23	9.85	33.08	50.00	-16.92	AVG	
12	17.3535	37.93	9.94	47.87	60.00	-12.13	QP	

Remark:

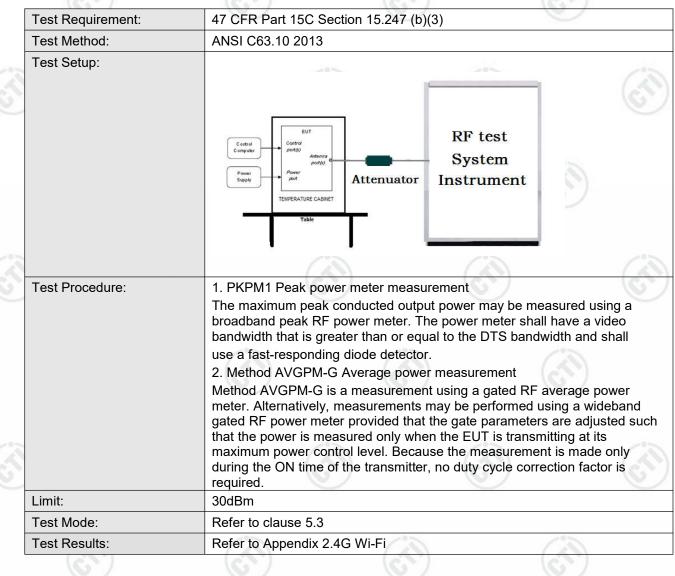
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





Page 17 of 58

6.3 Maximum Conducted Output Power

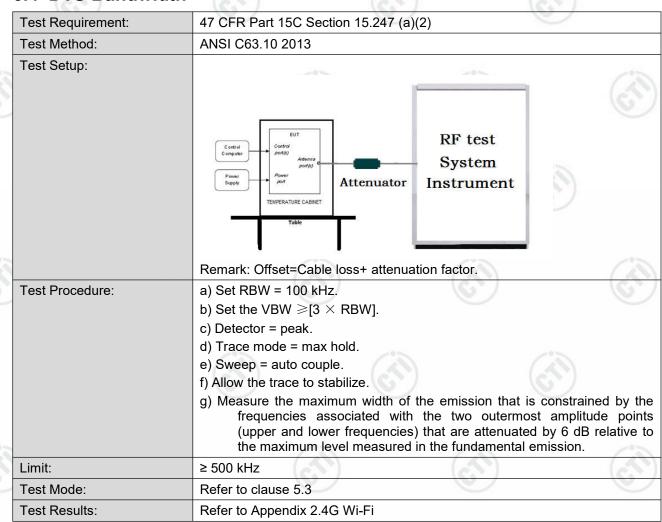






Page 18 of 58

6.4 DTS Bandwidth





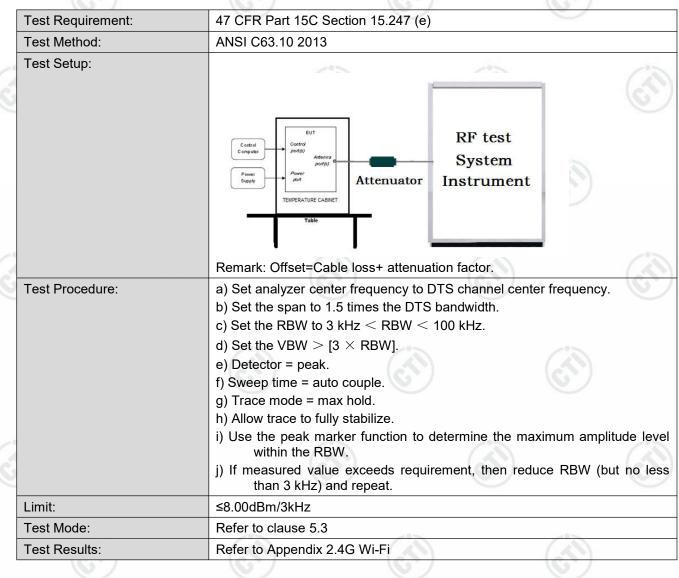






Page 19 of 58

6.5 Maximum Power Spectral Density



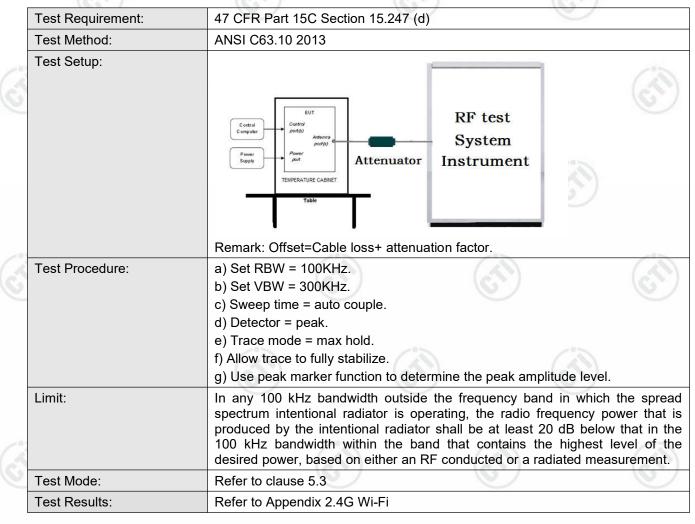






Page 20 of 58

6.6 Band Edge Measurements and Conducted Spurious Emission









Page 21 of 58

6.7 Radiated Spurious Emission & Restricted bands

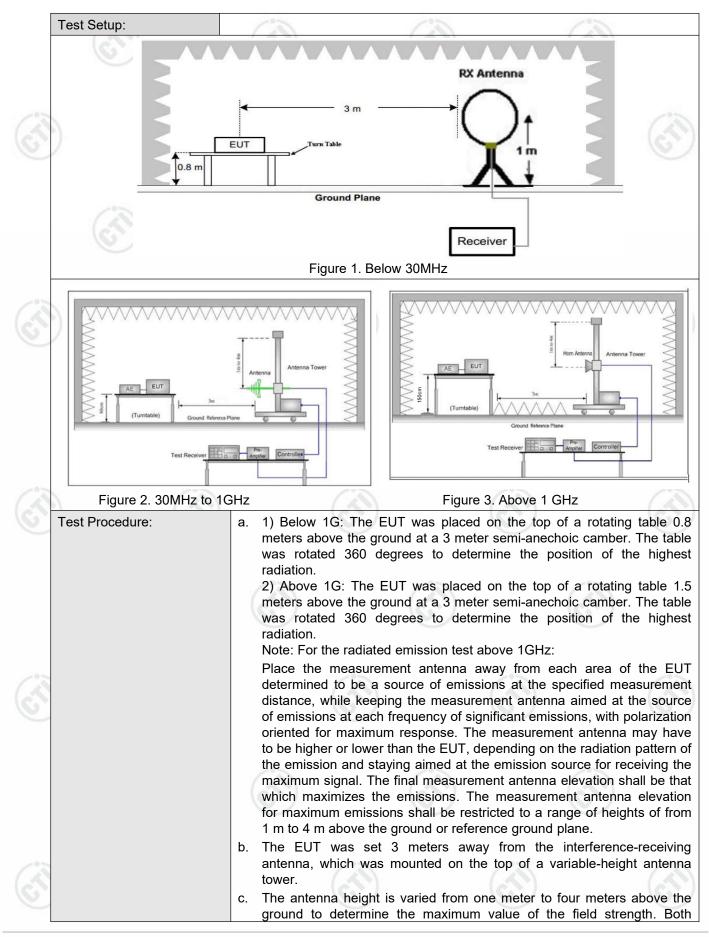
Test Requirement:	47 CFR Part 15C Section	on 15.209 and 15	.205	e	e
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance	: 3m (Semi-Anech	noic Cham	ber)	- 516
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	z Peak	10kHz	z 30kHz	Peak
	0.009MHz-0.090MHz	z Average	10kHz	z 30kHz	Average
	0.090MHz-0.110MHz	z Quasi-peak	10kHz	z 30kHz	Quasi-peak
	0.110MHz-0.490MHz	z Peak	10kHz	z 30kHz	Peak
	0.110MHz-0.490MHz	z Average	10kHz	z 30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	z 30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kH	lz 300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above IGH2	Peak	1MHz	: 10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurem distance (
	0.009MHz-0.490MHz	2400/F(kHz)	-	- / 5	300
	0.490MHz-1.705MHz	24000/F(kHz)	-		30
	1.705MHz-30MHz	30	-		30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), I frequency emissions is limit applicable to the en peak emission level rad	20dB above the quipment under t	maximum est. This p	permitted ave	erage emissio











CTI华测检测

Report No. : EED32Q80705103

Test Results:	Pass
Test Mode:	Refer to clause 5.3
	i. Repeat above procedures until all frequencies measured was complete.
8	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.













Page 23 of 58

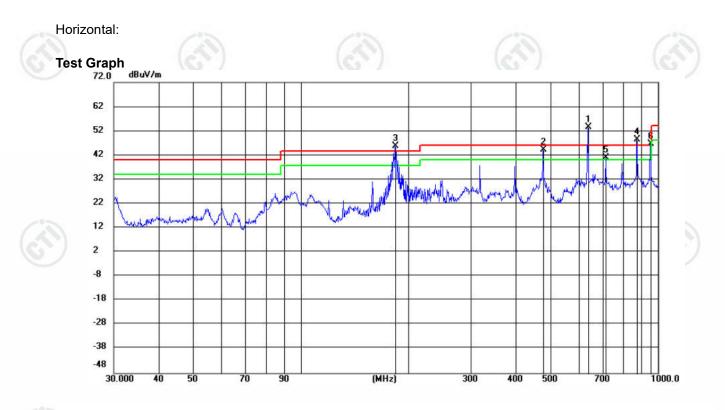


Page 24 of 58

Report No. : EED32Q80705103

Radiated Spurious Emission below 1GHz:

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

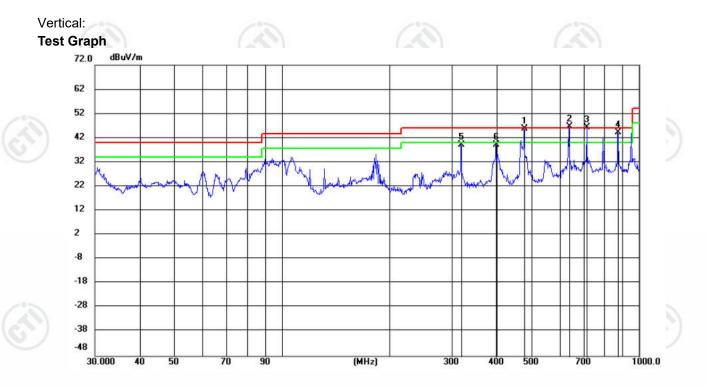


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	636.4687	29.74	23.77	53.51	46.00	7.51	QP	100	310	
2	ł	477.3367	23.92	20.40	44.32	46.00	-1.68	QP	199	71	
3	Х	183.8762	33.66	12.06	45.72	43.50	2.22	QP	199	177	
4	Х	875.2469	21.45	27.02	48.47	46.00	2.47	QP	199	39	
5	I	716.0540	16.37	24.47	40.84	46.00	-5.16	QP	100	310	
6	Х	954.7683	18.85	27.73	46.58	46.00	0.58	QP	199	7	

Note:Since the product was certified according to class A when it was certified 47 CFR Part 15 Subpart B, the data frequencies of the above fail were not generated by the wireless module, and these frequencies did not belong to 47 CFR Part 15 Subpart C section 15.205, so the evaluation could not be carried out, and the test passed.







Page 25 of 58

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	!	477.3367	25.45	20.40	45.85	46.00	-0.15	QP	100	29	
2	*	636.4687	22.86	23.77	46.63	46.00	0.63	QP	100	7	
3	Х	716.0540	21.96	24.47	46.43	46.00	0.43	QP	100	7	
4	!	875.2469	17.12	27.02	44.14	46.00	-1.86	QP	100	231	
5		318.2585	22.22	17.03	39.25	46.00	-6.75	QP	100	103	
6		397.8425	20.41	18.61	39.02	46.00	-6.98	QP	100	7	

Note:Since the product was certified according to class A when it was certified 47 CFR Part 15 Subpart B, the data frequencies of the above fail were not generated by the wireless module, and these frequencies did not belong to 47 CFR Part 15 Subpart C section 15.205, so the evaluation could not be carried out, and the test passed.





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.

2	ANT 1	1:		-						
r.	Mode	:		802.11 b Tran	smitting		Channe	el:	2412MH	z
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1034.4034	7.47	38.96	46.43	74.00	27.57	PASS	Н	PK
	2	1750.475	8.49	42.90	51.39	74.00	22.61	PASS	Н	PK
	3	3300.02	-18.05	5 57.10	39.05	74.00	34.95	PASS	Н	PK
	4	4824.1216	-13.45	63.51	50.06	74.00	23.94	PASS	Н	PK
-	5	6601.2401	-8.73	51.46	42.73	74.00	31.27	PASS	Н	PK
	6	13713.7142	4.94	42.32	47.26	74.00	26.74	PASS	Н	PK
	7	1193.2193	7.93	41.00	48.93	74.00	25.07	PASS	V	PK
	8	1750.275	8.49	38.67	47.16	74.00	26.84	PASS	V	PK
	9	3457.0305	-18.12	2 59.54	41.42	74.00	32.58	PASS	V	PK
	10	4824.1216	-13.45	62.10	48.65	74.00	25.35	PASS	V	PK
	11	6599.2399	-8.74	52.17	43.43	74.00	30.57	PASS	V	PK
	12	11875.5917	-1.74	46.90	45.16	74.00	28.84	PASS	V	PK

Mode	:	80	02.11 b Tran	smitting		Channe	el:	2437MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1193.4193	7.93	39.11	47.04	74.00	26.96	PASS	н	PK
2	1750.075	8.49	41.14	49.63	74.00	24.37	PASS	Н	PK
3	3960.064	-16.65	57.39	40.74	74.00	33.26	PASS	Н	PK
4	4874.1249	-13.46	63.76	50.30	74.00	23.70	PASS	Н	PK
5	7783.3189	-4.11	46.86	42.75	74.00	31.25	PASS	Н	PK
6	14319.7546	6.32	41.01	47.33	74.00	26.67	PASS	Н	PK
7	1193.0193	7.93	40.65	48.58	74.00	25.42	PASS	V	PK
8	1988.6989	8.99	38.25	47.24	74.00	26.76	PASS	V	PK
9	3962.0641	-16.64	59.22	42.58	74.00	31.42	PASS	V	PK
10	4874.1249	-13.46	61.68	48.22	74.00	25.78	PASS	V	PK
11	6602.2401	-8.71	52.39	43.68	74.00	30.32	PASS	V	PK
12	14276.7518	6.55	41.55	48.10	74.00	25.90	PASS	V	PK
	11210.1010	0.00	11.00	10.10	71.00	20.00	17100		







Page 27 of 58

					13		1	100	
Mod	le:		802.11 b Tran	smitting		Channe	el:	2462MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1212.0212	7.96	39.11	47.07	74.00	26.93	PASS	н	PK
2	1750.075	8.49	40.62	49.11	74.00	24.89	PASS	Н	PK
3	3300.02	-18.05	57.71	39.66	74.00	34.34	PASS	н	PK
4	4924.1283	-13.42	64.27	50.85	74.00	23.15	PASS	Н	PK
5	9241.4161	-3.40	48.95	45.55	74.00	28.45	PASS	Н	PK
6	13743.7162	4.65	42.68	47.33	74.00	26.67	PASS	Н	PK
7	1193.4193	7.93	40.63	48.56	74.00	25.44	PASS	V	PK
8	1750.275	8.49	38.32	46.81	74.00	27.19	PASS	V	PK
9	3961.0641	-16.64	58.93	42.29	74.00	31.71	PASS	V	PK
10	4924.1283	-13.42	62.14	48.72	74.00	25.28	PASS	V	PK
11	6600.24	-8.74	51.95	43.21	74.00	30.79	PASS	V	PK
12	13755.717	4.54	42.20	46.74	74.00	27.26	PASS	V	PK

Mode	e:		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	1061.2061	7.25	39.30	46.55	74.00	27.45	PASS	н	PK
2	1750.475	8.49	42.32	50.81	74.00	23.19	PASS	Н	PK
3	3299.0199	-18.05	59.94	41.89	74.00	32.11	PASS	Н	PK
4	4842.1228	-13.46	57.80	44.34	74.00	29.66	PASS	Н	PK
5	6600.24	-8.74	50.92	42.18	74.00	31.82	PASS	Н	PK
6	14189.746	7.17	39.72	46.89	74.00	27.11	PASS	Н	PK
7	1193.2193	7.93	42.56	50.49	74.00	23.51	PASS	V	PK
8	1352.4352	7.98	43.36	51.34	74.00	22.66	PASS	V	PK
9	3473.0315	-18.08	58.34	40.26	74.00	33.74	PASS	V	PK
10	3960.064	-16.65	5 59.01	42.36	74.00	31.64	PASS	V	PK
11	4840.1227	-13.45	5 55.71	42.26	74.00	31.74	PASS	V	PK
12	6599.2399	-8.74	52.34	43.60	74.00	30.40	PASS	V	PK
-	•	10-		202	•	20-		•	-0-













Page 28 of 58

20				212							
	Mode	:		80	02.11 n(HT4	0) Transmitti	ing	Channe	el:	2437MHz	
	NO	Freq. [MHz]	Facto [dB]	r	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
5	1	1230.023	7.92		38.50	46.42	74.00	27.58	PASS	н	PK
2	2	1750.075	8.49		42.04	50.53	74.00	23.47	PASS	Н	PK
	3	3961.0641	-16.64	4	57.15	40.51	74.00	33.49	PASS	Н	PK
	4	4844.1229	-13.4	5	56.78	43.33	74.00	30.67	PASS	Н	PK
	5	9240.416	-3.40)	48.82	45.42	74.00	28.58	PASS	Н	PK
	6	13741.7161	4.68		42.21	46.89	74.00	27.11	PASS	Н	PK
	7	1193.0193	7.93		40.46	48.39	74.00	25.61	PASS	V	PK
	8	1988.8989	8.99		37.98	46.97	74.00	27.03	PASS	V	PK
	9	3961.0641	-16.64	4	59.10	42.46	74.00	31.54	PASS	V	PK
	10	4845.123	-13.4	5	55.51	42.06	74.00	31.94	PASS	V	PK
	11	6601.2401	-8.73	5	53.67	44.94	74.00	29.06	PASS	V	PK
	12	13757.7172	4.52		42.11	46.63	74.00	27.37	PASS	V	PK
2	0			8							

Mode	:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2452MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1193.4193	7.93	38.74	46.67	74.00	27.33	PASS	н	PK
2	1750.275	8.49	42.10	50.59	74.00	23.41	PASS	Н	PK
3	3959.0639	-16.65	57.19	40.54	74.00	33.46	PASS	н	PK
4	4910.1273	-13.45	58.15	44.70	74.00	29.30	PASS	Н	PK
5	6601.2401	-8.73	50.88	42.15	74.00	31.85	PASS	н	PK
6	14216.7478	7.01	40.32	47.33	74.00	26.67	PASS	Н	PK
7	1193.4193	7.93	41.13	49.06	74.00	24.94	PASS	V	PK
8	1352.6353	7.98	41.73	49.71	74.00	24.29	PASS	V	PK
9	3958.0639	-16.65	59.71	43.06	74.00	30.94	PASS	V	PK
10	4905.127	-13.46	57.70	44.24	74.00	29.76	PASS	V	PK
11	6599.2399	-8.74	52.07	43.33	74.00	30.67	PASS	V	PK
12	10888.5259	0.34	44.66	45.00	74.00	29.00	PASS	V	PK



















MIMC):		12		12		1	2	
Mode	:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2422MH	z
NO	Freq. [MHz]	Facto [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1213.8214	7.96	38.71	46.67	74.00	27.33	PASS	н	PK
2	1750.075	8.49	41.20	49.69	74.00	24.31	PASS	Н	PK
3	3960.064	-16.65	5 58.30	41.65	74.00	32.35	PASS	Н	PK
4	5281.1521	-12.00) 51.71	39.71	74.00	34.29	PASS	Н	PK
5	9687.4458	-2.95	49.19	46.24	74.00	27.76	PASS	Н	PK
6	13690.7127	5.19	42.66	47.85	74.00	26.15	PASS	Н	PK
7	1193.6194	7.93	41.74	49.67	74.00	24.33	PASS	V	PK
8	1988.6989	8.99	38.56	47.55	74.00	26.45	PASS	V	PK
9	3463.0309	-18.10	0 60.66	42.56	74.00	31.44	PASS	V	PK
10	3961.0641	-16.64	1 57.87	41.23	74.00	32.77	PASS	V	PK
11	6597.2398	-8.77	51.80	43.03	74.00	30.97	PASS	V	PK
12	9688.4459	-2.97	48.16	45.19	74.00	28.81	PASS	V	PK

Mode	e:		802.11 n(HT4	0) Transmitti	ng	Channe	el:	2437MHz	
NO	Freq. [MHz]	Factor [dB]	- Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1193.2193	7.93	39.32	47.25	74.00	26.75	PASS	н	PK
2	1750.475	8.49	40.76	49.25	74.00	24.75	PASS	Н	PK
3	3962.0641	-16.64	58.01	41.37	74.00	32.63	PASS	Н	PK
4	6598.2399	-8.75	51.90	43.15	74.00	30.85	PASS	Н	PK
5	9687.4458	-2.95	49.20	46.25	74.00	27.75	PASS	Н	PK
6	13749.7166	4.60	42.25	46.85	74.00	27.15	PASS	Н	PK
7	1193.4193	7.93	40.75	48.68	74.00	25.32	PASS	V	PK
8	1989.0989	8.99	39.22	48.21	74.00	25.79	PASS	V	PK
9	3962.0641	-16.64	59.86	43.22	74.00	30.78	PASS	V	PK
10	6598.2399	-8.75	51.72	42.97	74.00	31.03	PASS	V	PK
11	9687.4458	-2.95	47.74	44.79	74.00	29.21	PASS	V	PK
12	11872.5915	-1.74	47.72	45.98	74.00	28.02	PASS	V	PK

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Page 30 of 58

:		802.11 n(HT4	0) Transmitti	ing	Channe	el:	2452MH	z
Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1193.6194	7.93	38.78	46.71	74.00	27.29	PASS	Н	PK
1750.275	8.49	41.69	50.18	74.00	23.82	PASS	Н	PK
3962.0641	-16.64	56.66	40.02	74.00	33.98	PASS	Н	PK
6603.2402	-8.71	49.82	41.11	74.00	32.89	PASS	Н	PK
9808.4539	-3.43	49.75	46.32	74.00	27.68	PASS	Н	PK
14232.7488	6.89	39.65	46.54	74.00	27.46	PASS	Н	PK
1193.6194	7.93	41.15	49.08	74.00	24.92	PASS	V	PK
1989.0989	8.99	38.39	47.38	74.00	26.62	PASS	V	PK
3300.02	-18.05	59.40	41.35	74.00	32.65	PASS	V	PK
3961.0641	-16.64	59.26	42.62	74.00	31.38	PASS	V	PK
6603.2402	-8.71	53.02	44.31	74.00	29.69	PASS	V	PK
9808.4539	-3.43	50.22	46.79	74.00	27.21	PASS	V	PK
	Freq. [MHz] 1193.6194 1750.275 3962.0641 6603.2402 9808.4539 14232.7488 1193.6194 1989.0989 3300.02 3961.0641 6603.2402	Freq. [MHz]Factor [dB]1193.61947.931750.2758.493962.0641-16.646603.2402-8.719808.4539-3.4314232.74886.891193.61947.931989.09898.993300.02-18.053961.0641-16.646603.2402-8.71	Freq. [MHz]Factor [dB]Reading [dBµV]1193.61947.9338.781750.2758.4941.693962.0641-16.6456.666603.2402-8.7149.829808.4539-3.4349.7514232.74886.8939.651193.61947.9341.151989.09898.9938.393300.02-18.0559.403961.0641-16.6459.266603.2402-8.7153.02	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]1193.61947.9338.7846.711750.2758.4941.6950.183962.0641-16.6456.6640.026603.2402-8.7149.8241.119808.4539-3.4349.7546.3214232.74886.8939.6546.541193.61947.9341.1549.081989.09898.9938.3947.383300.02-18.0559.4041.353961.0641-16.6459.2642.626603.2402-8.7153.0244.31	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]1193.61947.9338.7846.7174.001750.2758.4941.6950.1874.003962.0641-16.6456.6640.0274.006603.2402-8.7149.8241.1174.009808.4539-3.4349.7546.3274.0014232.74886.8939.6546.5474.001193.61947.9341.1549.0874.001989.09898.9938.3947.3874.003300.02-18.0559.4041.3574.003961.0641-16.6459.2642.6274.006603.2402-8.7153.0244.3174.00	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]1193.61947.9338.7846.7174.0027.291750.2758.4941.6950.1874.0023.823962.0641-16.6456.6640.0274.0033.986603.2402-8.7149.8241.1174.0032.899808.4539-3.4349.7546.3274.0027.6814232.74886.8939.6546.5474.0027.461193.61947.9341.1549.0874.0024.921989.09898.9938.3947.3874.0026.623300.02-18.0559.4041.3574.0032.653961.0641-16.6459.2642.6274.0031.386603.2402-8.7153.0244.3174.0029.69	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]Margin [dB]Result1193.61947.9338.7846.7174.0027.29PASS1750.2758.4941.6950.1874.0023.82PASS3962.0641-16.6456.6640.0274.0033.98PASS6603.2402-8.7149.8241.1174.0032.89PASS9808.4539-3.4349.7546.3274.0027.68PASS14232.74886.8939.6546.5474.0027.46PASS1193.61947.9341.1549.0874.0024.92PASS1989.09898.9938.3947.3874.0026.62PASS3300.02-18.0559.4041.3574.0032.65PASS3961.0641-16.6459.2642.6274.0031.38PASS6603.2402-8.7153.0244.3174.0029.69PASS	Freq. [MHz]Factor [dB]Reading [dBµV]Level [dBµV/m]Limit (dBµV/m]Margin [dB]ResultPolarity1193.61947.9338.7846.7174.0027.29PASSH1750.2758.4941.6950.1874.0023.82PASSH3962.0641-16.6456.6640.0274.0033.98PASSH6603.2402-8.7149.8241.1174.0032.89PASSH9808.4539-3.4349.7546.3274.0027.68PASSH14232.74886.8939.6546.5474.0027.46PASSH1193.61947.9341.1549.0874.0024.92PASSV1989.09898.9938.3947.3874.0026.62PASSV3300.02-18.0559.4041.3574.0031.38PASSV3961.0641-16.6459.2642.6274.0029.69PASSV

	Mode	:		BLE + 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	1052.0052	7.33	38.53	45.86	74.00	28.14	PASS	Н	PK
	2	1750.275	8.49	41.08	49.57	74.00	24.43	PASS	Н	PK
	3	3959.0639	-16.65	57.28	40.63	74.00	33.37	PASS	Н	PK
	4	4820.1213	-13.45	61.62	48.17	74.00	25.83	PASS	Н	PK
	5	7237.2825	-7.46	50.12	42.66	74.00	31.34	PASS	Н	PK
	6	13743.7162	4.65	42.29	46.94	74.00	27.06	PASS	Н	PK
	7	1193.6194	7.93	41.64	49.57	74.00	24.43	PASS	V	PK
	8	1590.8591	7.99	37.62	45.61	74.00	28.39	PASS	V	PK
	9	3960.064	-16.65	59.52	42.87	74.00	31.13	PASS	V	PK
	10	4820.1213	-13.45	60.44	46.99	74.00	27.01	PASS	V	PK
	11	7242.2828	-7.41	53.05	45.64	74.00	28.36	PASS	V	PK
3	12	14372.7582	6.19	40.88	47.07	74.00	26.93	PASS	V	PK
1	1		(2)	·	62		6			

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.





Page 31 of 58

Restricted bands:

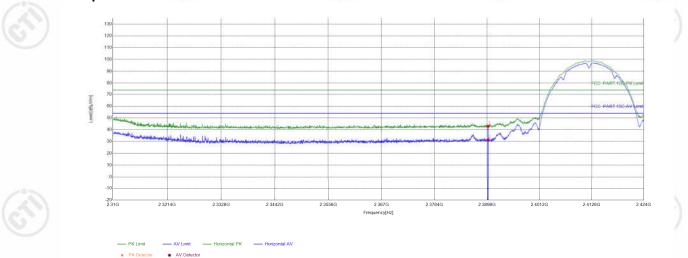


(i)

Test plot as follows:

ANT 1:		802.11 b	0		
	Test_Mode	Transmitting	Test_Frequency	2412MHz	
	Tset_Engineer	Aiden.wang	Test_Date	2024/07/31	
	Remark	, ©	C	(c)	

Test Graph

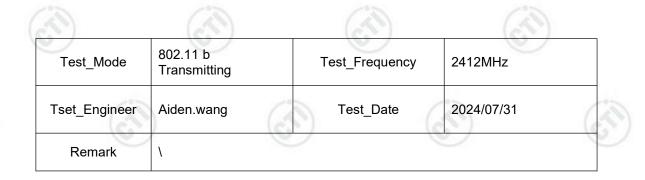


Suspecte		Factor							
NO	Freq. [MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	38.28	43.07	74.00	30.93	PASS	Horizontal	PK
2	2390	4.79	26.52	31.31	54.00	22.69	PASS	Horizontal	AV
•)		(\mathbf{x})		(c^{γ})		(ć.	(\mathbf{N})		(\mathcal{O})

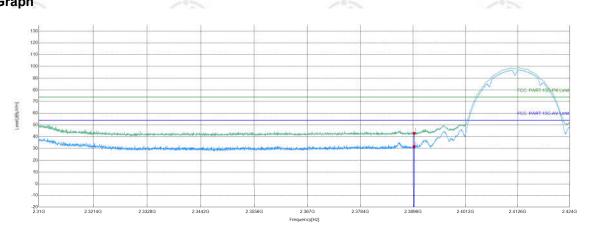




Page 32 of 58



Test Graph



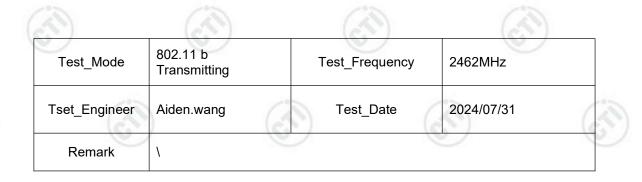
PK Limit — AV Limit — Vertical PK — Vertical AV PK Detector AV Detector

esult Polarity F	Remark
ASS Vertical	PK
ASS Vertical	AV
2	PASS Vertical

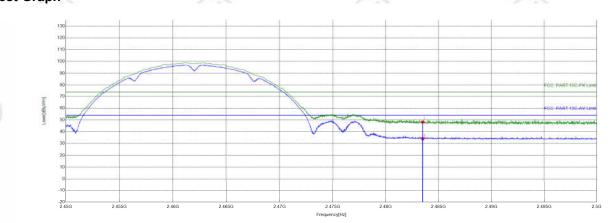




Page 33 of 58



Test Graph

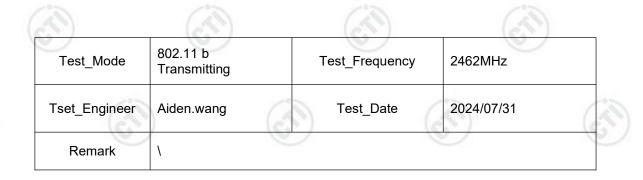


12			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		10		1	1		13
<u>S</u>	Suspected List									
9	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5	10.38	37.87	48.25	74.00	25.75	PASS	Horizontal	PK
	2	2483.5	10.38	23.71	34.09	54.00	19.91	PASS	Horizontal	AV
-	6			67		6			ST)	

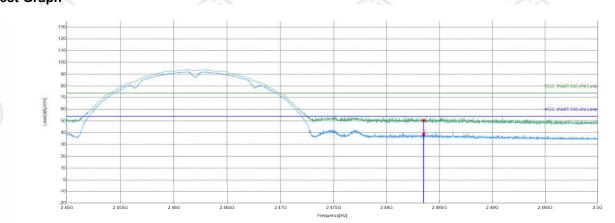




Page 34 of 58



Test Graph



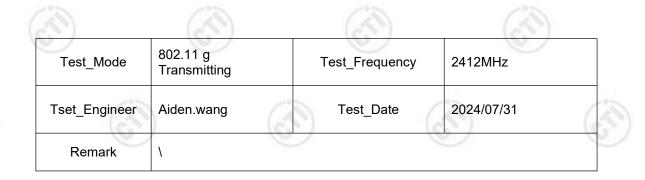
PK Limit AV Limit Vertical PK Vertical AV AV Detector

Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	39.89	50.27	74.00	23.73	PASS	Vertical	PK
2	2483.5	10.38	28.28	38.66	54.00	15.34	PASS	Vertical	AV
	51		67		6			ST/	

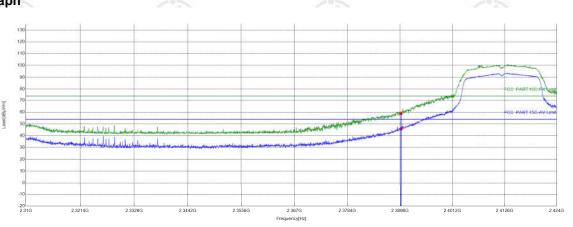




Page 35 of 58



Test Graph



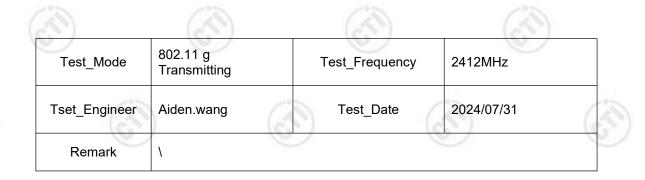
PK Limit — AV Limit — Horizontal PK — Horizontal A PK Detector AV Detector

~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		12		1	2		13
Susp	pecte	d List	_							
N	0	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1		2390	4.79	54.11	58.90	74.00	15.10	PASS	Horizontal	PK
2	2	2390	4.79	41.02	45.81	54.00	8.19	PASS	Horizontal	AV
	G			(C)		6			67)	

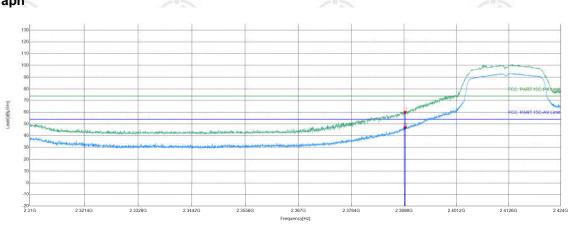




Page 36 of 58



Test Graph

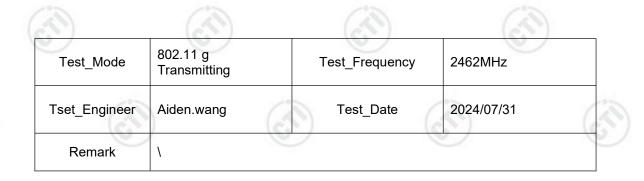


S	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	2390	4.79	55.09	59.88	74.00	14.12	PASS	Vertical	PK	
	2	2390	4.79	42.17	46.96	54.00	7.04	PASS	Vertical	AV	
	(C)	٠, I		(C)		S)			S		

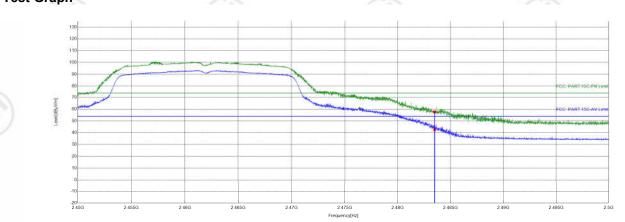




Page 37 of 58



Test Graph



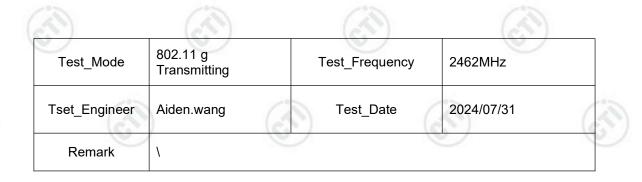
PK Limit — AV Limit — Horizontal PK — Horizontal AV AV Detector

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	47.29	57.67	74.00	16.33	PASS	Horizontal	PK
2	2483.5	10.38	32.32	42.70	54.00	11.30	PASS	Horizontal	AV

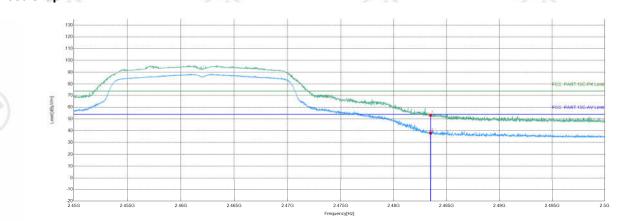




Page 38 of 58



Test Graph

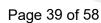


PK Limit — AV Limit — Vertical PK — Vertical AV AV Detector

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	42.84	53.22	74.00	20.78	PASS	Vertical	PK
2	2483.5	10.38	27.61	37.99	54.00	16.01	PASS	Vertical	AV

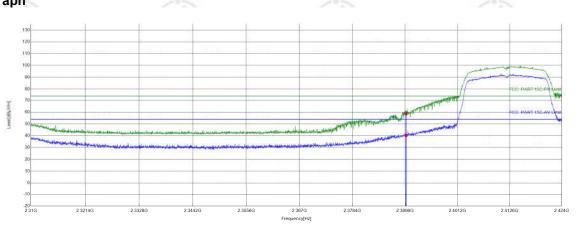






Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

Test Graph



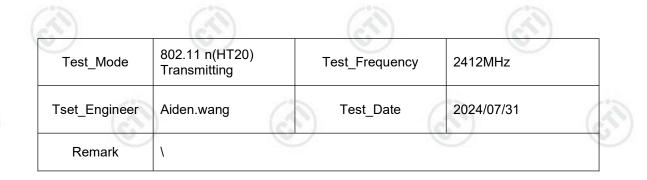
PK Limit — AV Limit — Horizontal PK — Horizontal AV * PK Detector * AV Detector

Suspe	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	53.81	58.60	74.00	15.40	PASS	Horizontal	PK
2	2390	4.79	35.46	40.25	54.00	13.75	PASS	Horizontal	AV
	ST/		67		6		2	$\langle \mathcal{O} \rangle$	

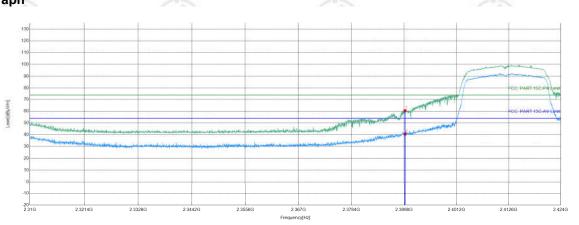




Page 40 of 58



Test Graph



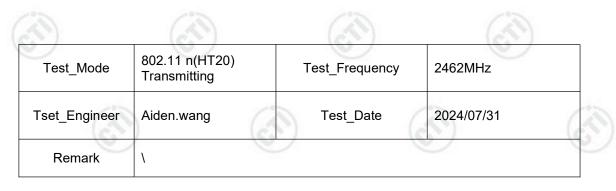
PK Limit — AV Limit — Vertical PK — Vertical AV PK Detector AV Detector

S	uspecte	d List								
2	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	4.79	55.73	60.52	74.00	13.48	PASS	Vertical	PK
	2	2390	4.79	35.67	40.46	54.00	13.54	PASS	Vertical	AV
	G	·)		(C)		(GT)			S)	

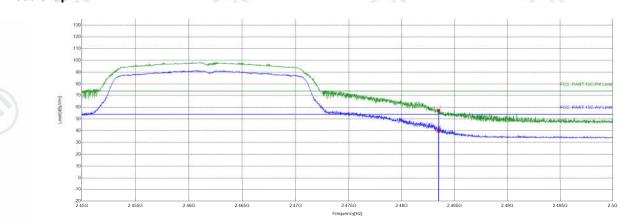








Test Graph



PK Limit AV Limit Horizontal PK Horizontal AV AV Detector

Suspecto NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	47.04	57.42	74.00	16.58	PASS	Horizontal	PK
2	2483.5	10.38	30.36	40.74	54.00	13.26	PASS	Horizontal	AV

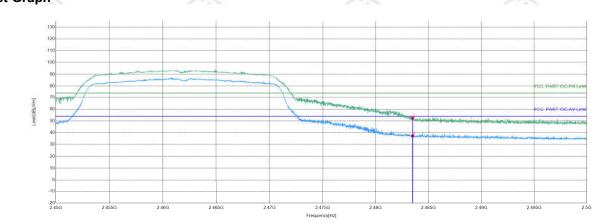




Page 42 of 58

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

Test Graph



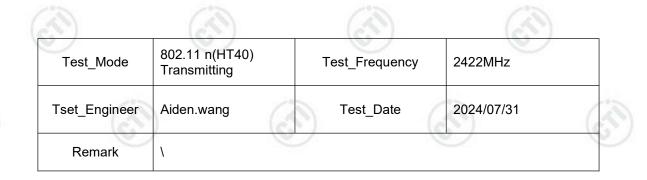
PK Limit AV Limit Vertical PK Vertical AV AV Detector

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	42.05	52.43	74.00	21.57	PASS	Vertical	PK
2	2483.5	10.38	26.87	37.25	54.00	16.75	PASS	Vertical	AV

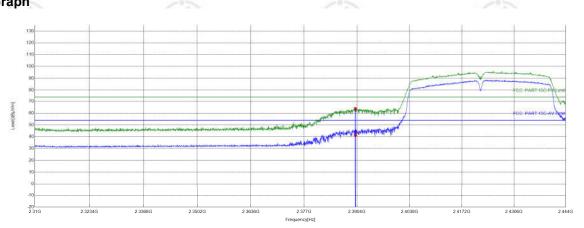




Page 43 of 58



Test Graph



12			1°2		12		1	2		2°2
	Suspecte	d List								
-	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
ſ	1	2390	9.96	53.92	63.88	74.00	10.12	PASS	Horizontal	PK
	2	2390	9.96	31.54	41.50	54.00	12.50	PASS	Horizontal	AV
-	6			(C)		(C)			ST)	

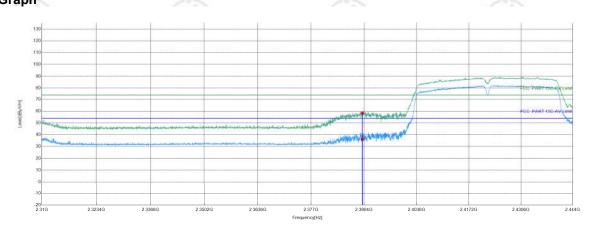




Page 44 of 58

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

Test Graph



PK Limit AV Limit Vertical PK Vertical AV * PK Detector * AV Detector

Suspecte	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	48.43	58.39	74.00	15.61	PASS	Vertical	PK
2	2390	9.96	26.11	36.07	54.00	17.93	PASS	Vertical	AV
	51		ST)		S)			ST.	



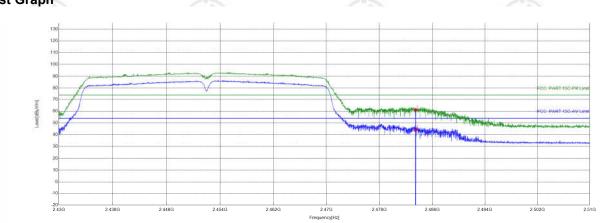






Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

Test Graph



- PK Limit - AV Limit - Horizontal PK - Horizontal AV * PK Detector AV Detector

Suspect	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.77	50.12	60.89	74.00	13.11	PASS	Horizontal	PK
2	2483.5	10.77	33.41	44.18	54.00	9.82	PASS	Horizontal	AV
	2400.0	10.77	33.41	44.10	04.00	3.02	1 700	TIONZONIA	

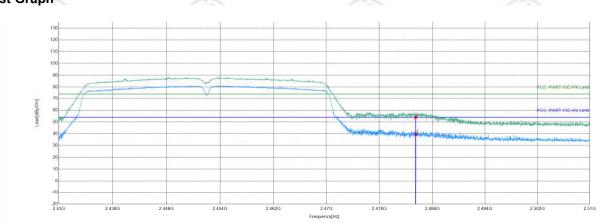




Page 46 of 58

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

Test Graph



Suspect	ed List								212
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.77	43.26	54.03	74.00	19.97	PASS	Vertical	PK
2	2483.5	10.77	28.84	39.61	54.00	14.39	PASS	Vertical	AV
	51		(C)		6			ST/	

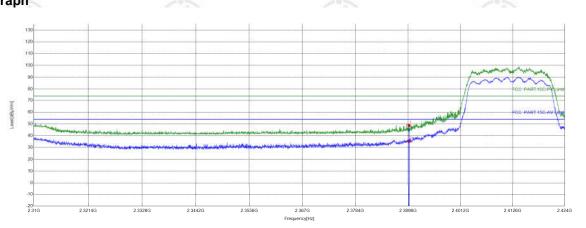




Page 47 of 58

MIMO: Test_Mode 802.11 n(HT20) Transmitting Test_Frequency 2412MHz Tset_Engineer Aiden.wang Test_Date 2024/07/31 Remark \

Test Graph



		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		12		1	2		2°2
Suspect	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	4.79	44.00	48.79	74.00	25.21	PASS	Horizontal	PK
2	2390	4.79	30.77	35.56	54.00	18.44	PASS	Horizontal	AV
0	51		(C)		(C)		2	$\langle \mathcal{O} \rangle$	

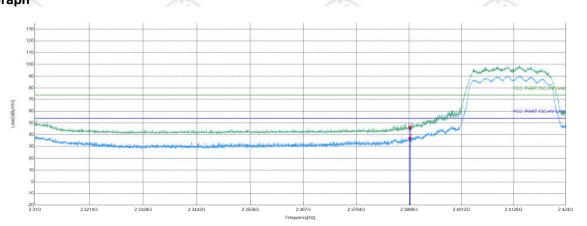




Page 48 of 58

Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2412MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31
Remark	1		

#### Test Graph

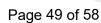


## PK Limit — AV Limit — Vertical PK — Vertical AV * PK Detector * AV Detector

Cuer		d   :e4	~~~		2°			-		20
NC		d List Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1		2390	4.79	41.18	45.97	74.00	28.03	PASS	Vertical	PK
2		2390	4.79	32.19	36.98	54.00	17.02	PASS	Vertical	AV
	6			(C)		6			ST/	

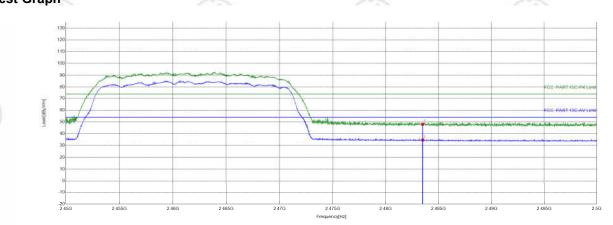






Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

#### Test Graph



#### PK Limit AV Limit Horizontal PK Horizontal AV * AV Detector

Suspect	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	37.72	48.10	74.00	25.90	PASS	Horizontal	PK
2	2483.5	10.38	24.29	34.67	54.00	19.33	PASS	Horizontal	AV
	51		ST.		(5)		2	ST/	

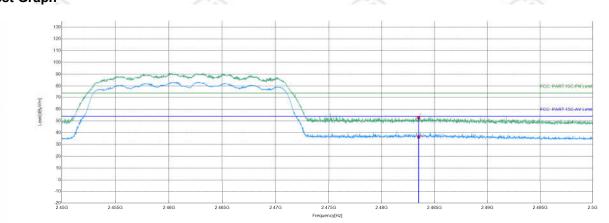






Test_Mode	802.11 n(HT20) Transmitting	Test_Frequency	2462MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

#### Test Graph



## PK Limit AV Limit Vertical PK Vertical AV AV Detector

Suspecte NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.38	42.25	52.63	74.00	21.37	PASS	Vertical	PK
2	2483.5	10.38	25.96	36.34	54.00	17.66	PASS	Vertical	AV

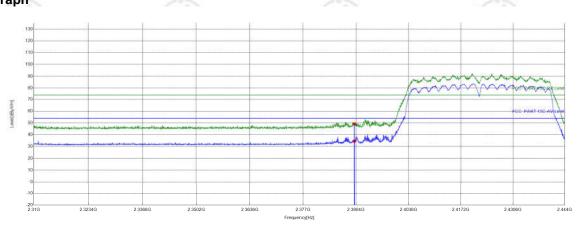




Page 51 of 58

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

#### Test Graph



## PK Limit AV Limit Horizontal PK Horizontal AV PK Detector AV Detector

Suspecte	ed List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	39.29	49.25	74.00	24.75	PASS	Horizontal	PK
2	2390	9.96	24.59	34.55	54.00	19.45	PASS	Horizontal	AV

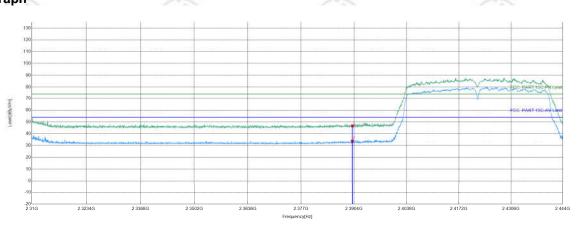




Page 52 of 58

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2422MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

#### Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	9.96	36.79	46.75	74.00	27.25	PASS	Vertical	PK
2	2390	9.96	23.82	33.78	54.00	20.22	PASS	Vertical	AV

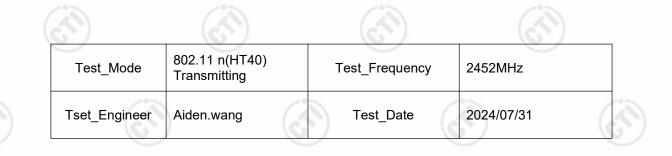






















Suspe	Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5	10.77	35.76	46.53	74.00	27.47	PASS	Horizontal	PK	
2	2483.5	10.77	23.06	33.83	54.00	20.17	PASS	Horizontal	AV	





















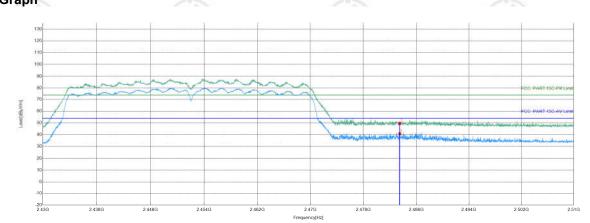




Page 54 of 58

Test_Mode	802.11 n(HT40) Transmitting	Test_Frequency	2452MHz
Tset_Engineer	Aiden.wang	Test_Date	2024/07/31

#### Test Graph



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		1º2		2°2		1	2		<">>
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	10.77	38.82	49.59	74.00	24.41	PASS	Vertical	PK
2	2483.5	10.77	29.97	40.74	54.00	13.26	PASS	Vertical	AV
LC.	21		1657		(C. 7			6571	•

#### 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

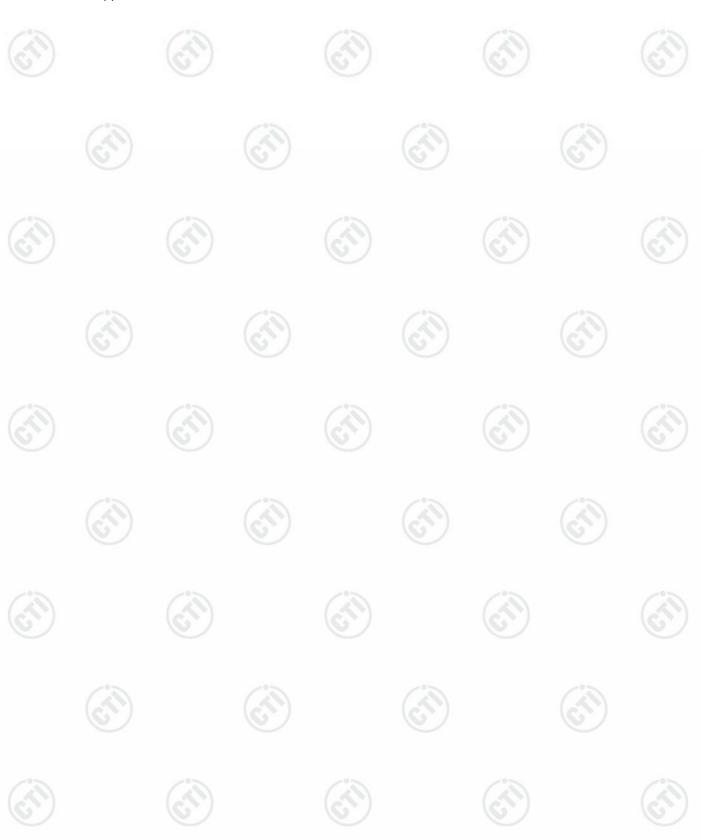






## 7 Appendix 2.4G Wi-Fi

Refer to Appendix: 2.4G Wi-Fi of EED32Q80705103



Page 55 of 58



Hotline:400-6788-333

Report No. : EED32Q80705103



# 9 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32Q80705101 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.

*** End of Report ***

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