



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





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EUT Description Wearable Camera 210

Applicant: Oracle America, Inc.

500 Oracle Parkway, Redwood City, CA 94065, USA

Manufacturer: Microtips Technology Inc.

31, LANE 169, KANG-NING ST, 12F, HSI CHIH DISTRICT,

TAIWAN, 221

Brand Name: Wearable Camera 210

Model No.: WCS210

Report Number: TERF2504001489E2

FCC ID A4H532CB

Date of EUT Received: April 24, 2025

Date of Test: May 5, 2025 ∼ May 27, 2025

Issue Date: June 9, 2025

Approved By_____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247.

The results of this report relate only to the sample identified in this report.

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	Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark	
TERF2504001489E2	00	Original	Jun. 9, 2025	Candice Li		

Note:

1 . The remark "*" indicates modification of the report upon requests from certification

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GENERAL INFORMATION

1.1 **Product Description**

EUT Description	Wearable Camera 210
Brand Name:	Wearable Camera 210
Model No.:	WCS210
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	N/A
Power Supply:	3.85 Vdc from Rechargeable Li-ion Battery 5 / 9 /12 Vdc from AC/DC Adapter with 100-240V AC input.
Test Software (Name/Version)	Tera term 5.3

1.2 **RF Specification**

WLAN 2.4GHz

Mode	Frequency	Channels	Rated Pov	ver (dBm)	Modulation		
Mode	Range	Channels	Peak	Avg.	Technology		
802.11b	2412~2462	11	19.88	16.92	CCK		
802.11g	2412~2462	11	22.22	13.97	OFDM		
802.11n_HT20	2412~2462	11	21.42	12.83	OFDM		
802.11n_HT40	2422~2452	7	22.48	12.74	OFDM		
NA - duda Gara			DQPSK, DBPSK for CCK in 802.11b				
Modulation	type:	64QAM, 16QAM, QPSK, BPSK for OFDM in					
		802.11g,11n					
Data Rate:		802.11b: 1/2/5.5/11 Mbps					
		802.11g: 6/9/12/18/24/36/48/54 Mbps					
		802.11n_HT20:up to 72.2Mbps					
	802.11n_HT40:up to 150Mbps						

1.3 **Antenna Designation**

Antenna	Brand	Model No.	Freq.(MHz) / Peak Gain (dBi)
Туре	Dianu	Wodel No.	2400~2483.5
FPC	Amphenol	MT540A-12-001-C	1.9

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB
		SAC 1		
		SAC 2		
		SAC 3		
	No.134, Wu Kung Road, New Taipei	Conduction 1		
		Conducted 1		
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	TW0027	
		Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		TW3702
		SAC C		
(TAF code 3702)		SAC D		
		SAC G		
	No 2 Keii 1et Dd. Cuichan Diatrict	Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

Temperature:	20~26	°C	Relative Humidity:	60~66	%
Test site	Conducted D		Test Start:	05/14/2025	
Test Engineer:	Charlie		Test Done:	05/27	/2025

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 **Test Procedure**

2.3.1 **Conducted Emissions**

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 **Radiated Emissions**

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

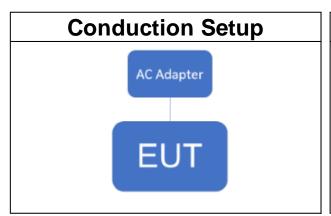
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site.

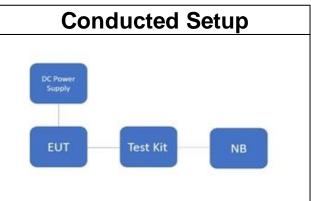
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

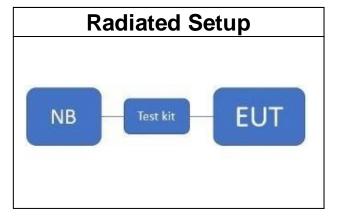
2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

2.5 **Test Configuration**







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2.6 Control Unit(s)

	AC Power-Line Conducted Emission Test Site: Conduction C				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB cable	JAWSSTECH	25-450-H001	N/A	N/A	N/A
USB cable	SUNCA	1Q19002251-WD	N/A	N/A	N/A
Adapter	PowerEric	PD0202UC	ABPS240023	N/A	N/A

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0003332	N/A	N/A
Test Kit	Microtips	739-RS2320S7	N/A	N/A	N/A

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	P0004691	N/A	N/A
Test Kit	Microtips	739-RS2320S7	N/A	N/A	N/A
USB Cable	DIKE	SH-USB 3M	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.209	Conducted Band Edge	O a see l'a set
§15.247(d)	and Spurious Emission	Compliant
§15.209	Radiated Band Edge	Compliant
§15.247(d)	and Spurious Emission	Compliant
§15.205	Restricted Bands	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

Operating Frequencies

2400~2483.5 MHz				
201	ИHz			
СН	Freq. (MHz)			
1	2412			
2	2417			
3	2422			
4	2427			
5	2432			
6	2437			
7	2442			
8	2447			
9	2452			
10	2457			
11	2462			

40N	ИНz
СН	Freq. (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

	Mode		Transmission Chain					T	Single ransmission Spatial	Т	Multi ransmission Spatial	
٧	802.11 b	٧	Ch0		Ch1		Ch2	Ch3	٧	1TX		1TX
٧	802.11 g	٧	Ch0		Ch1		Ch2	Ch3	٧	1TX		1TX
٧	802.11 n	٧	Ch0		Ch1		Ch2	Ch3	>	1TX		1TX
	802.11 ac		Ch0		Ch1		Ch2	Ch3		1TX		1TX
	802.11 ax		Ch0		Ch1		Ch2	Ch3		1TX		1TX
	802.11 be		Ch0		Ch1		Ch2	Ch3		1TX		1TX

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4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST									
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT				
802.11b	1 to 11	1,6,11	CCK	1	Ch0				
802.11g	1 to 11	1,6,11	OFDM	6	Ch0				
802.11n_HT20	1 to 11	1,6,11	OFDM	MCS0	Ch0				
802.11n_HT40	3 to 9	3,6,9	OFDM	MCS0	Ch0				

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)								
MODE	MODE AVAILABLE TESTE CHANNEL CHANN		MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11g	1 to 11	6	OFDM	6	Ch0			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)									
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT				
000 441	_	_	001/	(IVIDPS)	_				
802.11b	1 to 11	1,6,11	ССК	1	Ch0				
802.11g	1 to 11	1,6,11	OFDM	6	Ch0				
802.11n20	1 to 11	1,6,11	OFDM	MCS0	Ch0				
802.11n40	3 to 9	3,6,9	OFDM	MCS0	Ch0				

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Un	certain	ty
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Em	nissio	n Measur	ement	Uncertainty
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.1	dB	30MHz - 1000MHz
Polarization. Vertical	+/-	3.37	dB	1GHz - 18GHz
	+/-	3.83	dB	18GHz - 40GHz
	+/-	1.89	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.1	dB	30MHz - 1000MHz
Polarization. Horizontal	+/-	3.37	dB	1GHz - 18GHz
	+/- 1.89 dB +/- 4.1 dB 30 +/- 3.37 dB +/- 3.83 dB 1 +/- 1.89 dB +/- 4.1 dB 30 +/- 3.37 dB +/- 3.83 dB 1 +/- 3.83 dB 1 +/- 1.59 dB 5 +/- 1.64 dB 9	18GHz - 40GHz		
	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
Radiated Spurious Emission	+/-	1.71	dB	60GHz-90GHz
	+/-	1.64	dB	90GHz-140GHz
	+/-	3.84	dB	140GHz-220GHz

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED

6.1 **Emission from AC power line**

	AC Power-Line Conducted Emission Test Site: Conduction C									
EQUIPMENT TYPE	MFR	MODEL NUMBER SERIAL NUME		LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)					
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026					
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026					
LISN	SCHWARZBECK		974	06/26/2024	06/25/2025					
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026					
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R					

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted D								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)			
Attenuator	Marvelous	MVE2213-10	RF08	11/14/2024	11/13/2025			
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025			
DC Block	Marvelous	MVE6114	RF39	11/14/2024	11/13/2025			
DC Power Supply	Agilent	E3640A	MY53130054	10/01/2024	09/30/2025			
Power Meter	An rits u	ML2496A	2138002	08/28/2024	08/27/2025			
Power Sensor	Anritsu	MA2411B	1911390	08/28/2024	08/27/2025			
Power Sensor	Anritsu	MA2411B	1911398	08/28/2024	08/27/2025			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	09/18/2024	09/17/2025			
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/06/2025	01/05/2026			
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R			

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Radiated Measurement

	Radiated Emission Test Site: SAC C								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)				
3m Site NSA	SGS	966 chamber C	N/A	03/02/2025	03/01/2026				
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025				
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025				
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/06/2024	11/05/2025				
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104- SM-SM- 6000+EMC105-SM- SM-12000+15	W13.01+150813+231 0002+15	11/14/2024	11/13/2025				
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026				
Highpass Filter	R&S	F13 HPF 3GHz	RF167	11/14/2024	11/13/2025				
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026				
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025				
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025				
Notch Filter	Micro-Tronics	BRM50701-02	RF208	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/14/2024	11/13/2025				
Pre-Amplifier	EMC Instruments	EMC330	980091	11/14/2024	11/13/2025				
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	02/12/2026				
Test Software	audix	е3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R				

NOTE: N.C.R refers to Not Calibrated Required.

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CONDUCTED EMISSION TEST

7.1 **Standard Applicable**

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range		imits BuV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

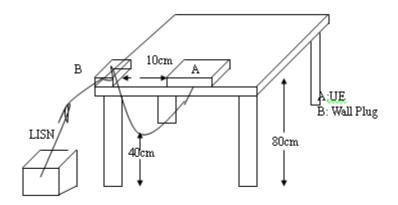
Note

- 1. The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 **EUT Setup:**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120-240Vac/60Hz power source.

7.3 **Test Setup**



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Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

7.5 **Measurement Result**

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closest to the limit.

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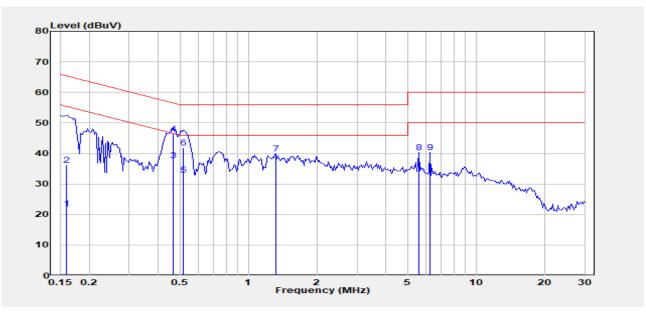
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2504001489E2 **Test Site** :Conduction C

Test Mode :802.11g **Test Date** :2025-05-27 :120V/60Hz Power Temp./Humi :26.3°C/61%

Probe :L1 Engineer :Alex Li

Note: :SUNCA



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.158	Average	11.30	10.65	21.95	55.56	-33.61
0.158	QP	25.60	10.65	36.25	65.56	-29.31
0.466	Average	27.20	10.62	37.82	46.58	-8.77
0.466	QP	35.70	10.62	46.32	56.58	-10.27
0.518	Average	22.40	10.62	33.02	46.00	-12.98
0.518	QP	31.20	10.62	41.82	56.00	-14.18
1.317	Peak	29.22	10.72	39.94	56.00	-16.06
5.623	Peak	29.45	10.96	40.40	60.00	-19.60
6.252	Peak	29.29	10.96	40.25	60.00	-19.75

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:Alex Li

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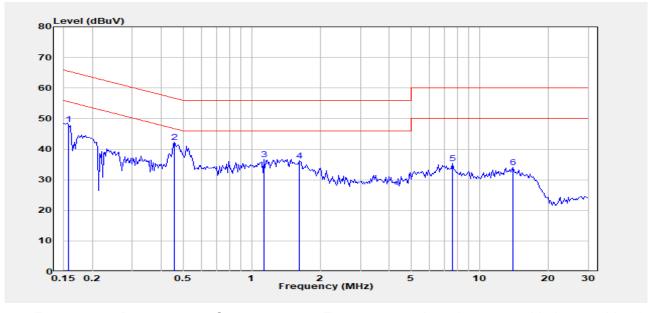
SGS Report No.: T

Report Number :TERF2504001489E2 Test Site :Conduction C

Test Mode :802.11g Test Date :2025-05-27 Power :120V/60Hz Temp./Humi :26.3°C/61%

Probe :N Engineer

Note: :SUNCA



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.156	Peak	37.55	10.66	48.21	65.65	-17.44
0.456	Peak	31.75	10.61	42.36	56.76	-14.40
1.135	Peak	25.92	10.68	36.61	56.00	-19.39
1.628	Peak	25.55	10.73	36.28	56.00	-19.72
7.646	Peak	24.35	10.94	35.29	60.00	-24.71
13.989	Peak	22.90	11.05	33.95	60.00	-26.05

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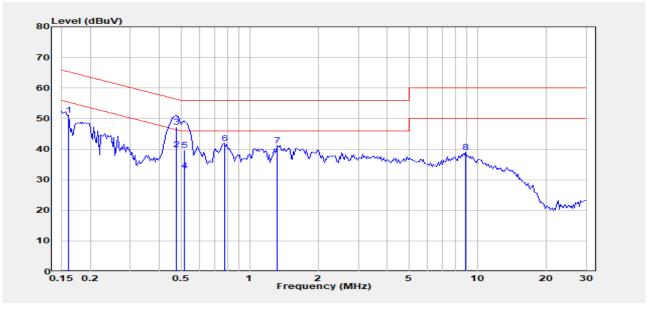
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Report Number :TERF2504001489E2 Test Site :Conduction C

Test Mode :802.11g **Test Date** :2025-05-27 Power :120V/60Hz Temp./Humi :26.3°C/61%

Probe :L1 Engineer :Alex Li

Note: :JAWSSTECH



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.160	Peak	40.50	10.65	51.15	65.47	-14.32
0.476	Average	29.30	10.62	39.92	46.41	-6.49
0.476	QP	36.70	10.62	47.32	56.41	-9.09
0.518	Average	22.30	10.62	32.92	46.00	-13.08
0.518	QP	29.10	10.62	39.72	56.00	-16.28
0.775	Peak	31.13	10.66	41.79	56.00	-14.21
1.317	Peak	30.53	10.72	41.25	56.00	-14.75
8.869	Peak	28.14	10.96	39.10	60.00	-20.90

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Report No.: TERF2504001489E2 Page: 20 of 92



Report Number :TERF2504001489E2

Test Mode :802.11g Power :120V/60Hz

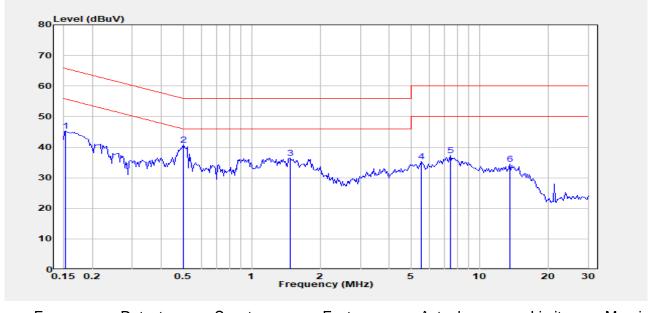
Probe

Note: :JAWSSTECH Test Site :Conduction C

Test Date :2025-05-27

Temp./Humi :26.3°C/61%

Engineer :Alex Li



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.153	Peak	34.66	10.66	45.32	65.82	-20.51
0.502	Peak	30.20	10.60	40.80	56.00	-15.20
1.480	Peak	25.77	10.72	36.49	56.00	-19.51
5.564	Peak	24.47	10.94	35.40	60.00	-24.60
7.486	Peak	26.40	10.94	37.34	60.00	-22.66
13.551	Peak	23.35	11.04	34.39	60.00	-25.61

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.1.2 FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

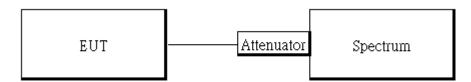
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

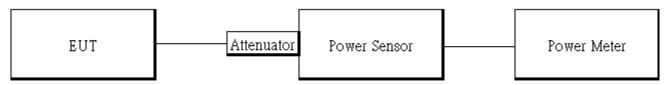
When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power:



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Measurement Procedure

8.3.1 **Duty Cycle:**

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

8.3.2 Output Power

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

* Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.

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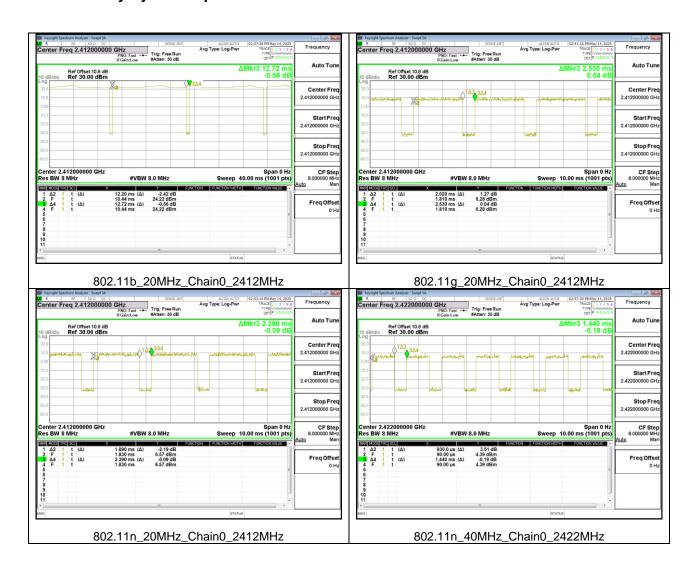


8.4 **Measurement Result**

8.4.1 **Duty Cycle:**

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	95.91	0.18	0.08	1.00
802.11g	79.84	0.98	0.50	1.00
802.11n_20	79.07	1.02	0.53	1.00
802.11n_40	64.58	1.90	1.08	2.00

8.4.2 **Duty Cycle test plots**



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8.4.3 Output Power

802.1	1b Ch0	utput i owei					
СН	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	45	97.27	19.88	30.00	PASS
6	2437	1	44	92.68	19.67	30.00	PASS
11	2462	1	45	91.62	19.62	30.00	PASS
802.1	1b Ch0		'				1
СН	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	45	49.22	16.92	30.00	PASS
6	2437	1	44	47.33	16.75	30.00	PASS
11	2462	1	45	46.68	16.69	30.00	PASS
802.1	1g Ch0						•
СН	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	48	166.72	22.22	30.00	PASS
6	2437	6	48	163.68	22.14	30.00	PASS
11	2462	6	48	161.06	22.07	30.00	PASS
802.1	1g Ch0						•
СН	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	48	24.93	13.97	30.00	PASS
6	2437	6	48	23.43	13.70	30.00	PASS
11	2462	6	48	23.16	13.65	30.00	PASS

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802.1	1n_HT_2	20M Ch0					
СН	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	46	138.68	21.42	30.00	PASS
6	2437	MCS0	46	136.46	21.35	30.00	PASS
11	2462	MCS0	46	134.90	21.30	30.00	PASS
802.1	1n_HT_2	20M Ch0					
СН	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	46	19.19	12.83	30.00	PASS
6	2437	MCS0	46	18.66	12.71	30.00	PASS
11	2462	MCS0	46	18.36	12.64	30.00	PASS

802.1	1n_HT_4	40M Ch0					
СН	Freq. (MHz)	Data Rate	Power Setting	Peak Output Power (mW)	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	45	177.01	22.48	30.00	PASS
6	2437	MCS0	45	172.19	22.36	30.00	PASS
9	2452	MCS0	45	169.43	22.29	30.00	PASS
802.1	1n_HT_4	40M Ch0					
СН	Freq. (MHz)	Data Rate	Power Setting	Avg. Output Power (mW)	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	45	18.79	12.74	30.00	PASS
6	2437	MCS0	45	18.49	12.67	30.00	PASS
9	2452	MCS0	45	18.11	12.58	30.00	PASS

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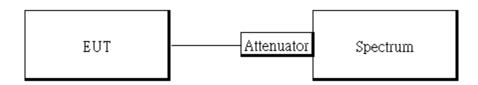
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EMISSION BANDWIDTH MEASUREMENT

9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 **Test Setup**



9.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 6dB BW measurements

- 1. The testing follows the Measurement Procedure of the KDB 558074 D01.
- 2. Set the spectrum analyzer as

RBW = 100 kHz,

VBW = 3 X RBW

Span= 2 to 5 times of the OBW,

Sweep=auto, Detector = Peak, and Max hold.

- Mark the upper and lower frequencies of -6dB.
- 4. Repeat above procedures until all test default channel is completed.

9.3.2 99% BW measurements

- 1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
- 2. Set the spectrum analyzer as

RBW= 1 % to 5% of 99%,

VBW ≥ 3 X RBW.

Span= large enough to capture all products of the modulation process

Sweep=auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of 99%.
- 4. Repeat above procedures until all test default channel is completed.

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9.4 **Measurement Result:**

9.4.1 6dB BW measurements

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	10130	≥ 500	PASS
2437	10130	≥ 500	PASS
2462	10130	≥ 500	PASS

802.11a Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16370	≥ 500	PASS
2437	16370	≥ 500	PASS
2462	16350	≥ 500	PASS

802.11n HT 20M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17030	≥ 500	PASS
2437	17050	≥ 500	PASS
2462	17080	≥ 500	PASS

802.11n_HT_40M Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35890	≥ 500	PASS
2437	35870	≥ 500	PASS
2452	35880	≥ 500	PASS

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9.4.2 99% Bandwidth

802.11b Ch0

Freq. (MHz)	99% BW (MHz)
2412	15.098
2437	15.034
2462	15.064

802.11g Ch0

Freq. (MHz)	99% BW (MHz)
2412	16.907
2437	16.863
2462	16.885

802.11n HT20M Ch0

Freq. (MHz)	99% BW (MHz)
2412	17.867
2437	17.841
2462	17.803

802.11n HT40M Ch0

Freq.	99% BW
(MHz)	(MHz)
2422	36.456
2437	36.308
2452	36.444

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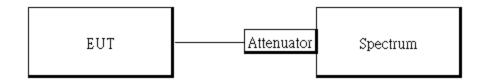
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



10.3 Measurement Procedure

10.3.1 Reference Level of Emission Limit:

- 1. Set analyzer center frequency to DTS channel center frequency.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

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10.3.2 **Conducted Band Edge:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker of reference level measurement -20dBm
- 8. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3.3 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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Measurement Result

802.11b Ch0

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	10.23	-9.77
2437	9.01	-10.99
2462	9.61	-10.39

802.11a Ch0

00=1119 0110		
Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	6.37	-13.63
2437	5.89	-14.11
2462	6.25	-13.75

802.11n_HT_20M Ch0

Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2412	6.39	-13.61
2437	5.95	-14.05
2462	1.52	-18.48

802.11n_HT_40M Ch0

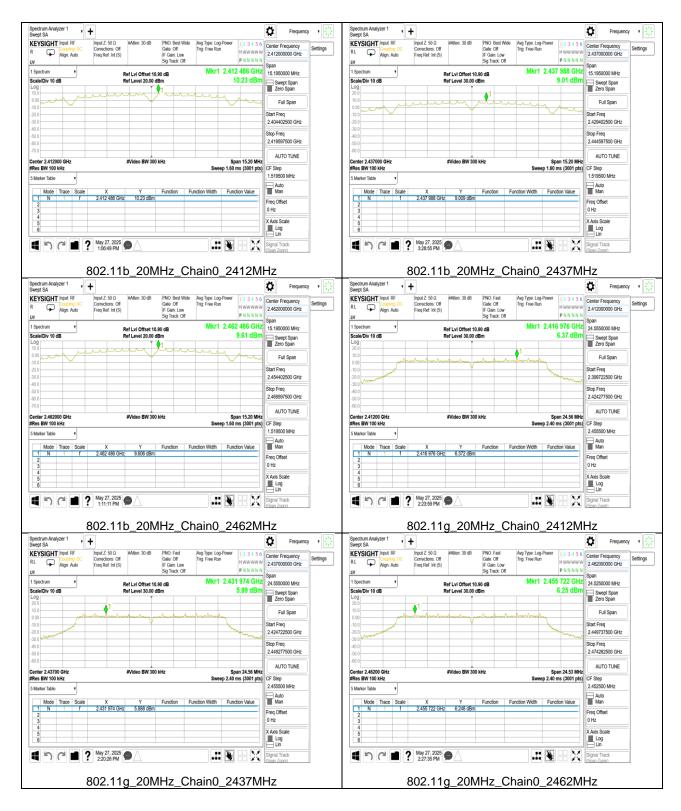
Reference Level of Limit		
Freq.	PSD	Reference Level of Limit
(MHz)	(dBm)	(dBm)
2422	3.69	-16.31
2437	-1.53	-21.53
2452	3.66	-16.34

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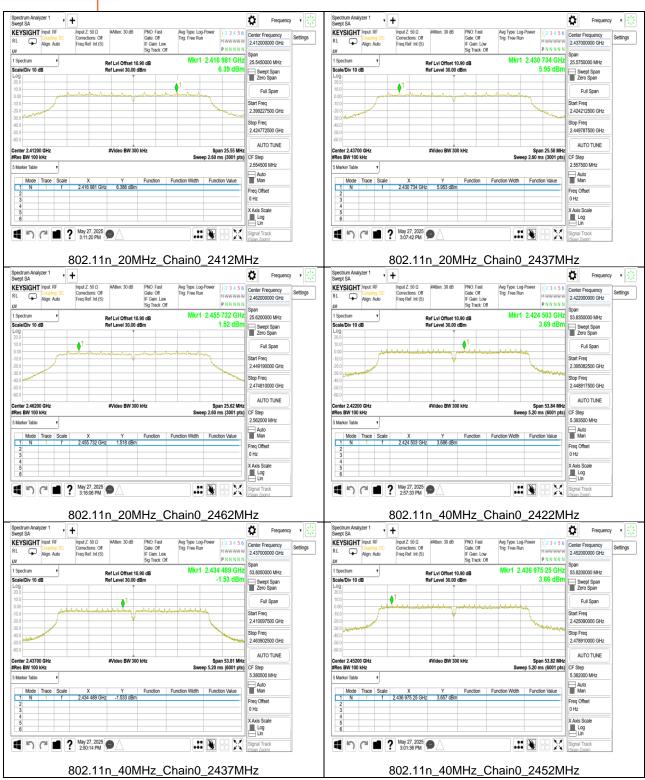
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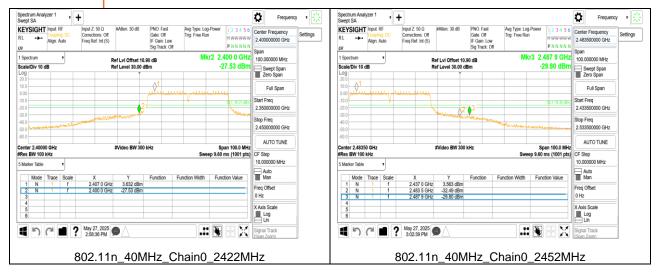
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