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TEST REPORT

Report No.: CHTEW21110043 Report Verification:

Project No...... SHT2109040108EW

FCC ID.....: BXZSH2V2

Applicant's name: Ascom (Sweden) AB

Address...... Grimbodalen 2 P.O. Box 8783, Gothenburg, SE-417 49 Sweden

Test item description: Ascom Myco 3

Trade Mark Ascom

Model/Type reference...... SH2-ABAA

sales areas and sales channels, and is only used for propaganda purposes. The change of "X" does not affect product safety and

electromagnetic compatibility)

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample............ Jul.28, 2021

Date of testing...... Jul.28, 2021- Nov.03, 2021

Date of issue...... Nov.04, 2021

Result...... PASS

Compiled by

(Position+Printed name+Signature): File administrator Echo Wei

Supervised by

(Position+Printed name+Signature): Project Engineer Kiki Kong

Approved by

(Position+Printed name+Signature): RF Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-11-04	Original

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS
5.6	99% Occupied Bandwidth	-	PASS*1
5.7	Duty cycle	-	PASS*1
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

The measurement uncertainty is not included in the test result.

 ^{*1:} No requirement on standard, only report these test data.

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3. **SUMMARY**

3.1. Client Information

Applicant:	Ascom (Sweden) AB	
Address:	Grimbodalen 2 P.O. Box 8783, Gothenburg, SE-417 49 Sweden	
Manufacturer: Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.		
Address:	4F & 6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street, Bao'an District, Shenzhen, P.R. China	

3.2. Product Description

Name of EUT:	Ascom Myco 3
Trade Mark:	Ascom
Model No.:	SH2-ABAA
Listed Model(s):	SH2-XXXX("X"=A-Z represents different appearance colors, sales areas and sales channels,and is only used for propaganda purposes. The change of "X" does not affect product safety and electromagnetic compatibility)
Power supply:	DC 3.8V
Battery Information:	3.8V 11.153Wh 2A
Hardware version:	AM501-MB-H8-V03
Software version:	Ascom.Myco3. ABAA.V5.3

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	LDS
Antenna gain:	1.63dBi

Note:

^{*2:} only show the RF function associated with this report.

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
Qualifications	Type Accreditation Number		
Qualifications	FCC	762235	

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4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Channel Frequency (MHz)		Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	. :	. :	. :
06	2437	06	2437
· :	. :	. :	. :
10	2457	08	2447
11	2462	09	2452

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

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4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Wheth	Whether support unit is used?				
✓	✓ No				
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipment Used during the Test

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/9/14	2022/9/13
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/17	2022/9/16
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/9/17	2022/9/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test si	te				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2021/9/13	2022/9/12
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/9/13	2022/9/12
•	Power Meter	Anritsu	ML249A	N/A	2021/9/13	2022/9/12
0	Radio communication tester	R&S	CMW500	137688-Lv	2021/9/13	2022/9/12

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble 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.

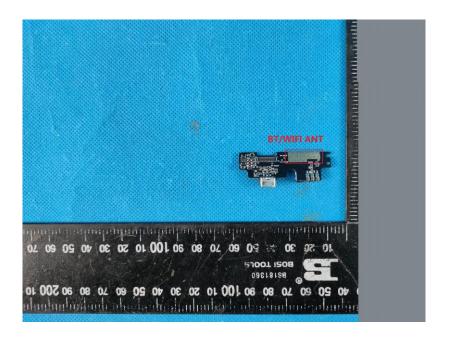
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

$oxed{oxed}$ Passed	☐ Not Applicable
---------------------	------------------

The antenna type is a LDS antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



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5.2. AC Conducted Emission

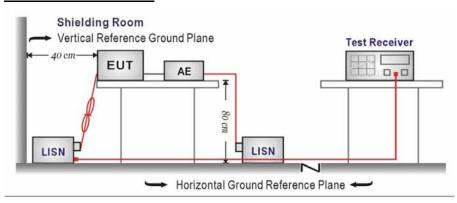
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ov rop go (MHz)	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

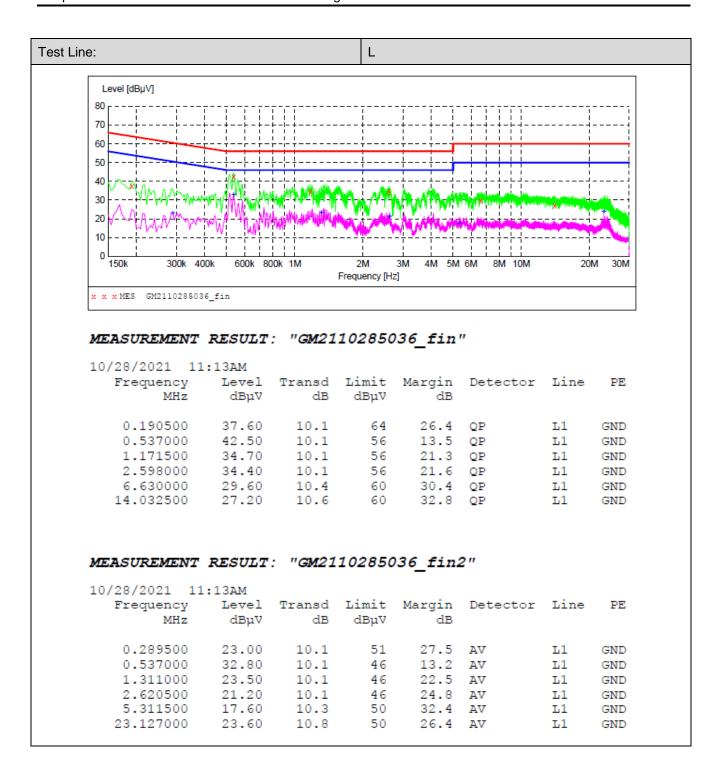
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

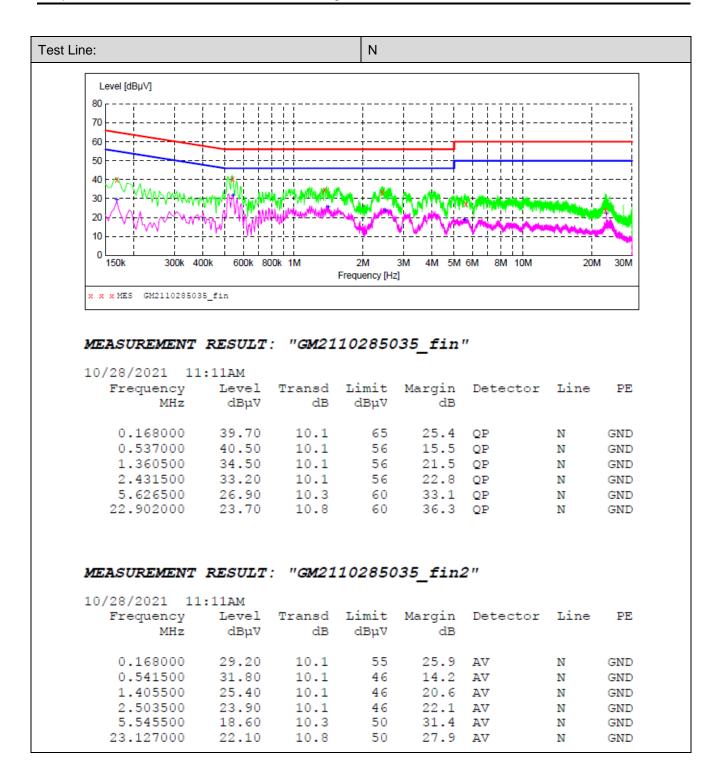
Please refer to the clause 4.2

TEST RESULT

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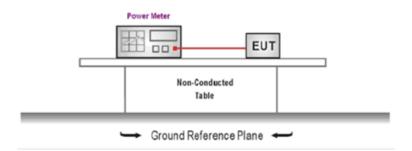
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5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix A on the appendix report

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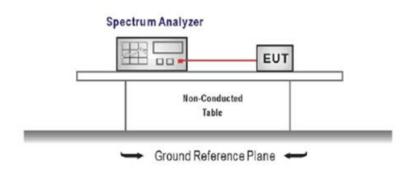
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix B on the appendix report

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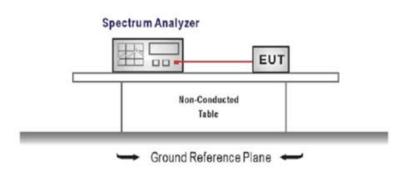
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. 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, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix C on the appendix report

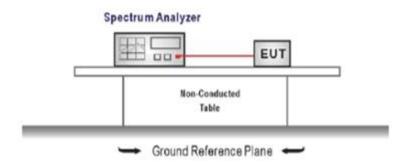
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5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).

Center Frequency =channel center frequency

Span≥1.5 x OBW

RBW = 1%~5%OBW

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix D on the appendix report

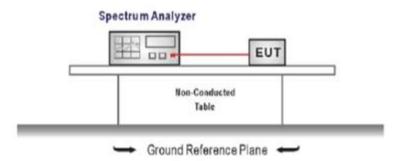
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5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:
 - Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW \geq RBW
 - Sweep=as necessary to capture the entire dwell time,
 - Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

Please refer to appendix E on the appendix report

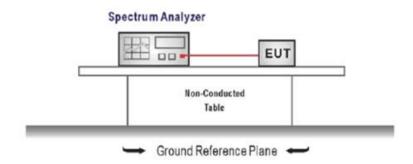
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5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):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 CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW \geq 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

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TEST RESUL

 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

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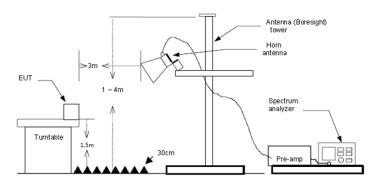
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

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Туре		802.1	1b	Test c	hannel	CH	101	F	Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	38.46	27.96	5.43	37.56	20.00	54.29	74.00	-19.71	Peak
	2	2390.01	38.54	27.72	5.53	37.45	20.00	54.34	74.00	-19.66	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	32.43	27.96	5.43	37.56	20.00	48.26	54.00	-5.74	Average
	2	2390.01	31.66	27.72	5.53	37.45	20.00	47.46	54.00	-6.54	Average
Туре		802.1	1b	Test c	hannel	CH	101	F	Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	38.48	27.96	5.43	37.56	20.00	54.31	74.00	-19.69	Peak
	2	2390.01	38.28	27.72	5.53	37.45	20.00	54.08	74.00	-19.92	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	32.00	27.96	5.43	37.56	20.00	47.83	54.00	-6.17	Average
	2	2390.01	31.94	27.72	5.53	37.45	20.00	47.74	54.00	-6.26	Average

Туре	802.11b			Test cl	Test channel CH11			P		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2483.49	38.57	27.43	5.64	37.26	20.00	54.38	74.00	-19.62	2 Peak
	2	2500.00	38.40	27.40	5.66	37.26	20.00	54.20	74.00	-19.80	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.20	27.43	5.64	37.26	20.00	48.01	54.00	-5.99	Average
	2	2500.00	31.49	27.40	5.66	37.26	20.00	47.29	54.00	-6.71	Average
Туре		802.1	1b	Test cl	hannel	CH	111	Р	olarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	it
	1	2483.49	39.06	27.43	5.64	37.26	20.00	54.87	74.00	-19.13	B Peak
	2	2500.00	39.07	27.40	5.66	37.26	20.00	54.87	74.00	-19.13	B Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	31.78	27.43	5.64	37.26	20.00	47.59	54.00 -	6.41	Average
	2	2500.00	31.66	27.40	5.66	37.26	20.00	47.46	54.00 -	6.54	Average

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Туре		802.1	1g	Test cl	nannel	CH	101	Р	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2310.00	39.25	27.96	5.43	37.56	20.00	55.08	74.00	-18.92	Peak
	2	2390.01	44.83	27.72	5.53	37.45	20.00	60.63	74.00	-13.37	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	27.04	27.96	5.43	37.56	20.00	42.87	54.00	-11.13	Average
	2	2390.01	29.85	27.72	5.53	37.45	20.00	45.65	54.00	-8.35	Average
Туре		802.1	1g	Test cl	hannel	CH	101	Р	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream;	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1	2310.00	38.74	27.96	5.43	37.56	20.00	54.57	74.00	-19.43	
	2	2390.01	45.15	27.72	5.53	37.45	20.00	60.95	74.00	-13.05	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	27.22	27.96	5.43	37.56	20.00	43.05	54.00 -	10.95	Average
	2	2390.01	29.45	27.72	5.53	37.45	20.00	45.25	54 00	-8.75	Average

Туре		802.1	1g	Test c	hannel	CH	111	P	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	48.22	27.43	5.64	37.26	20.00	64.03	74.00	-9.97	Peak
	2	2483.70	51.55	27.43	5.64	37.26	20.00	67.36	74.00	-6.64	Peak
	3	2500.00	37.16	27.40	5.66	37.26	20.00	52.96	74.00	-21.04	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	31.86	27.43	5.64	37.26	20.00	47.67	54.00	-6.33	Average
	2	2500.00	25.15	27.40	5.66	37.26	20.00	40.95	54.00	-13.05	Average
Туре		802.11	1g	Test c	hannel	CH	111	Р	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	49.41	27.43	5.64	37.26	20.00	65.22	74.00	-8.78	Peak
	2	2483.92	51.19	27.43	5.64	37.26	20.00	67.00	74.00	-7.00	Peak
	3	2500.00	37.29	27.40	5.66	37.26	20.00	53.09	74.00	-20.91	Peak
		Frequency	Reading	Antenna	Cable	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	Mark	MHz	dBuV/m	dB	dB	ab	ub	ubuv/III	ubuv/III		
	Mark 1		dBuV/m 31.43	dB 27.43	dB 5.64	37.26	20.00		54.00	-6.76	Average

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Туре			802.1	1n(HT20)	Test c	hannel	CH	101	P	olarity		Horizontal
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310	.00	38.35	27.96	5.43	37.56	20.00	54.18	74.00	-19.82	Peak
	2	2390	.01	49.19	27.72	5.53	37.45	20.00	64.99	74.00	-9.01	Peak
	Mark		quency tz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB		Limit dBuV/m	Over limit	Remark
	1	2310	.00	27.11	27.96	5.43	37.56	20.00	42.94	54.00 -	11.06	Average
	2	2390	.01	31.91	27.72	5.53	37.45	20.00	47.71	54.00	-6.29	Average
Туре			802.1	1n(HT20)	Test c	hannel	CH	H01	Р	olarity		Vertical
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/		Remark
	1	2310	.00	39.43	27.96	5.43	37.56	20.00	55.26	74.00	-18.74	Peak
	2	2390	.01	48.94	27.72	5.53	37.45	20.00	64.74	74.00	-9.26	Peak
	Mark	Fre	quency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		М	Hz	dBuV/m	dB	dB	dB .	dB	dBuV/m	dBuV/m	limit	
	1	2310	.00	27.16	27.96	5.43	37.56	20.00	42.99	54.00	-11.01	Average
	2	2390	.01	30.58	27.72	5.53	37.45	20.00	46.38	54.00	-7.62	Average

Туре		802.1	1n(HT20)	Test c	hannel	CH	111	P	olarity	Horizontal
	Mark				Cable			Level	Limit Ove	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m		nit
	1	2483.49	51.60	27.43	5.64	37.26	20.00		74.00 -6.5	(1) 전 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
	2	2500.00	39.02	27.40	5.66	37.26	20.00	54.82	74.00 -19.1	18 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2483.49	35.12	27.43	5.64	37.26	20.00	50.93	54.00 -3.07	Average
	2	2500.00	26.70	27.40	5.66	37.26	20.00	42.50	54.00 -11.50	Average
Туре		802.1	1n(HT20)	Test c	hannel	CH	111	Р	olarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit Ove	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lim	it
	1	2483.49	53.97	27.43	5.64	37.26	20.00	69.78	74.00 -4.2	2 Peak
	2	2500.00	39.27	27.40	5.66	37.26	20.00	55.07	74.00 -18.9	3 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2483.49	35.99	27.43	5.64	37.26	20.00	51.80	54.00 -2.20	Average
	2	2500.00	26.70	27.40	5.66	37.26	20.00	42.50	54.00 -11.50	Average

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Туре		802.11	1n(HT40)	Test cl	hannel	CH	103	F	Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over	
	1	2310.00	37.00	27.96		37.56	20.00	52.83	74.00 -21.17	
	2	2389.99	50.44	27.72		37.45	20.00	66.24	74.00 -7.76	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable F	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2310.00	25.58	27.96	5.43 37	7.56	20.00	41.41	54.00 -12.59	Average
	2	2389.99	31.10	27.72	5.53 37	7.45	20.00	46.90	54.00 -7.10	Average
Туре		802.11	1n(HT40)	Test cl	nannel	CH	103	F	Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Ove	
	1	2310.00	37.12	27.96	5.43	37.56	20.00	52.95	74.00 -21.0	5 Peak
	2	2389.40	50.12	27.72	5.53	37.45	20.00	65.92	74.00 -8.0	8 Peak
	3	2389.99	45.49	27.72	5.53	37.45	20.00	61.29	74.00 -12.7	1 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2310.00	25.66	27.96	5.43 3	7.56	20.00	41.49	9 54.00 -12.51	Average
	2	2389.99	29.93	27.72	5.53 3	7.45	20.00	45.73	3 54.00 -8.27	Average

Туре		802.1	1n(HT40)	Test c	hannel	CH	109	F	Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	52.78	27.43	5.64	37.26	20.00	68.59	74.00	-5.41	Peak
	2	2484.78	56.09	27.43	5.64	37.26	20.00	71.90	74.00	-2.10	Peak
	3	2500.00	37.49	27.40	5.66	37.26	20.00	53.29	74.00	-20.71	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	35.01	27.43	5.64	37.26	20.00	50.82	54.00	-3.18	Average
	2	2483.82	35.40	27.43	5.64	37.26	20.00	51.21	54.00	-2.79	Average
	3	2500.00	25.29	27.40	5.66	37.26	20.00	41.09	54.00	-12.91	Average
Туре		802.1	1n(HT40)	Test c	hannel	CH	109	F	Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	55.16	27.43	5.64	37.26	20.00	70.97	74.00	-3.03	Peak
	2	2484.03	55.75	27.43	5.64	37.26	20.00	71.56	74.00	-2.44	Peak
	3	2500.00	36.95	27.40	5.66	37.26	20.00	52.75	74.00	-21.25	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.50	34.75	27.43	5.64	37.26	20.00	50.56	54.00	-3.44	Average
	2	2500.00	25.31	27.40	5.66	37.26	20.00	41.11	54.00	-12.89	Average

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

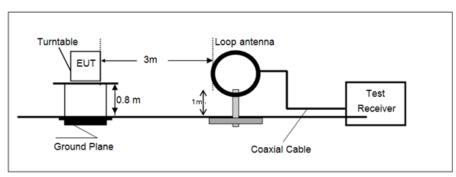
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3) = Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3) = Limit dBuV/m @30m + 40.

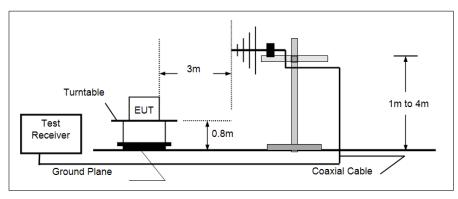
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

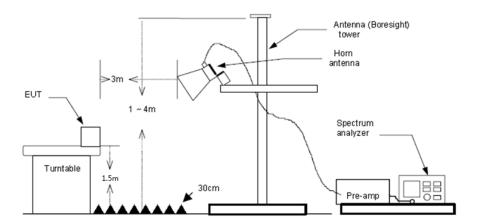
→ 9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz



TEST PROCEDURE

- The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

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TEST DATA FOR 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

TEST DATA FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

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Polarization: Horizontal Level [dBµV/m] 50 40 30 20 10 0 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M 800M 1G Frequency [Hz] x x x MES GM2110306010_red MEASUREMENT RESULT: "GM2110306010 red" 10/30/2021 10:28AM Frequency Level Transd Limit Margin Det. Height Azimuth Polarization dB MHz dBµV/m dB dBµV/m cm deg 19.30 -8.8 19.20 -9.1 51.340000 40.0 20.7 QP 100.0 99.00 HORIZONTAL 19.20 325.00 HORIZONTAL 149.00 HORIZONTAL 20.8 QP 26.1 QP 40.0 55.220000 100.0 17.40 -10.4 105.660000 100.0 43.5 21.10 -7.0 303.540000 46.0 24.9 QP 100.0 6.00 HORIZONTAL 547.980000 27.00 -0.5 46.0 19.0 QP 100.0 336.00 HORIZONTAL 35.60 10.4 QP 0.00 HORIZONTAL 934.040000 7.7 46.0 100.0 Polarization: Vertical Level [dBµV/m] 70 60 50 40 30 20 10 100M 30M 40M 50M 60M 70M 200M 300M 400M 500M 600M 800M 1G Frequency [Hz] x x x MES GM2110306009_red MEASUREMENT RESULT: "GM2110306009_red"

10/30/2021 10	0:26AM							
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
45.520000	28.80	-8.8	40.0	11.2	QP	100.0	266.00	VERTICAL
55.220000	23.00	-9.1	40.0	17.0	QP	100.0	87.00	VERTICAL
161.920000	19.30	-13.2	43.5	24.2	QP	100.0	266.00	VERTICAL
286.080000	21.50	-7.5	46.0	24.5	QP	100.0	217.00	VERTICAL
547.980000	26.90	-0.5	46.0	19.1	QP	100.0	360.00	VERTICAL
953.440000	35.60	7.9	46.0	10.4	QP	100.0	194.00	VERTICAL

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TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.11b		Test channe	el	CH01		Polarity		Horizontal	
	Mark	Frequency	Readin		Cabl		Leve		Over		
		MHz	dBuV/		dB	dB	dBuV/		lim:		
	1	3018.50	39.59	28.74	6.22		37.09	74.00	-36.9		
	2	4821.76	44.41	31.40	8.50		49.07	74.00	-24.9		
	3	7880.77	32.77	36.72	10.78		46.96	74.00	-27.0		
	4	10944.09	32.42	40.60	12.52	36.72	48.82	74.00	-25.	18 Peak	
Туре		802.11b		Test channe	el	CH01		Polarity		Vertical	
	Mark	Frequency	Reading	g Antenna	Cable		Level	Limit	Over	Remark	
		MHz	dBuV/r		dB	dB	dBuV/m	dBuV/m	limit		
	1	4014.29	37.26	29.93	7.39	36.31	38.27		-35.73		
	2	4821.76	46.54	31.40	8.50	35.24	51.20		-22.80		
	3	4821.86	45.16	31.40	8.50	35.23	49.		-4.17		
	4	8042.90	32.72	37.19	11.02	33.31	47.62		-26.38		
	5	10723.47	34.19	40.15	12.50	36.90	49.94	74.00	-24.06	Peak	
Туре		802.11b		Test channe	el	CH06		Polarity		Horizontal	
	Mark	Frequency	Readin	g Antenna	Cable	e Preamp	Level	Limit	Over	Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/n	dBuV/m	limi	t	
	1	3525.56	39.31	29.20	6.82	36.71	38.62	74.00	-35.3	8 Peak	
	2	4871.10	37.06	31.40	8.63	35.16	41.93	74.00	-32.0	7 Peak	
	3	8063.40	32.22	37.20	11.08	33.32	47.18	74.00	-26.8	2 Peak	
	4	10888.51	33.93	40.57	12.52	36.76	50.26	74.00	-23.7	4 Peak	
Туре		802.11b		Test channe	el	CH06		Polarity		Vertical	
Туре	Mark	802.11b	Readin	1.1	Cabl		Leve	1	Over		
Туре	Mark		Readin dBuV/	g Antenna			Leve:	l Limit	Over limi	Remark	
Туре	Mark 1	Frequency		g Antenna	Cabl	e Preamp dB		l Limit		Remark t	
Type		Frequency MHz	dBuV/	g Antenna m dB	Cabl	e Preamp dB 36.34	dBuV/r	l Limit m dBuV/m	limi	Remark t 9 Peak	
Type	1	Frequency MHz 4004.08	dBuV/ 38.06	g Antenna m dB 29.91	Cable dB 7.38	e Preamp dB 36.34 35.16	dBuV/r 39.01	l Limit m dBuV/m 74.00	limi -34.9	Remark t 9 Peak 2 Peak	
Туре	1 2	Frequency MHz 4004.08 4871.10	dBuV/ 38.06 38.41	g Antenna m dB 29.91 31.40	Cable dB 7.38 8.63	e Preamp dB 36.34 35.16 33.36	dBuV/r 39.01 43.28	l Limit m dBuV/m 74.00 74.00	limi -34.9 -30.7 -26.2	Remark t 9 Peak 2 Peak	
Туре	1 2 3	Frequency MHz 4004.08 4871.10 8125.22	dBuV/ 38.06 38.41 32.78	g Antenna m dB 29.91 31.40 37.10	Cable dB 7.38 8.63 11.28 12.52	e Preamp dB 36.34 35.16 33.36	dBuV/r 39.01 43.28 47.80	l Limit m dBuV/m 74.00 74.00 74.00	limi -34.9 -30.7 -26.2	Remark t 9 Peak 2 Peak 0 Peak	
	1 2 3	Frequency MHz 4004.08 4871.10 8125.22 10916.26	dBuV/ 38.06 38.41 32.78 33.25	g Antenna m dB 29.91 31.40 37.10 40.60 Test channe	Cable dB 7.38 8.63 11.28 12.52	e Preamp dB 36.34 35.16 33.36 36.74	dBuV/r 39.01 43.28 47.80	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limi -34.9 -30.7 -26.2	Remark t 9 Peak 2 Peak 0 Peak 7 Peak Horizontal	
	1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26	dBuV/ 38.06 38.41 32.78	g Antenna dB 29.91 31.40 37.10 40.60 Test channe	Cabl. dB 7.38 8.63 11.28 12.52	Preamp dB 36.34 35.16 33.36 36.74	dBuV/r 39.01 43.28 47.80 49.63	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit	limi -34.9 -30.7 -26.2 -24.3	Remark t 9 Peak 2 Peak 0 Peak 7 Peak Horizontal	
	1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency	dBuV/ 38.06 38.41 32.78 33.25	g Antenna m dB 29.91 31.40 37.10 40.60 Test channe	Cabl. dB 7.38 8.63 11.28 12.52 Cabl	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB	dBuV/r 39.01 43.28 47.80 49.63	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit	limi -34.9 -30.7 -26.2 -24.3	Remark t 9 Peak 2 Peak 0 Peak 7 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB	Cable dB 7.38 8.63 11.28 12.52 Cable dB	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74	dBuV/r 39.01 43.28 47.80 49.63 Leve dBuV/	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m	limi -34.9 -30.7 -26.2 -24.3	Remark t 9 Peak 2 Peak 9 Peak 7 Peak Horizontal r Remark it 22 Peak	
	1 2 3 4 Mark	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80	Cable 7.38 8.63 11.28 12.52 Cabl dB 7.30	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00	limi -34.9 -30.7 -26.2 -24.3 Over lim:	Remark t 9 Peak 2 Peak 9 Peak 7 Peak Horizontal r Remark it 22 Peak 21 Peak	
	1 2 3 4 Mark	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44	Cabl. d8 7.38 8.63 11.28 12.52 Cabl. dB 7.30 8.73	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33	dBuV/r 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00	limi -34.9 -30.7 -26.2 -24.3 Over lim: -35.3	Remark t 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark t 12 Peak 21 Peak 22 Peak 23 Peak	
	1 2 3 4 Mark 1 2 3	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna m dB 29.91 31.40 37.10 40.60 Test channe g Antenna m dB 29.80 31.44 37.18 39.93	Cabla 7.38 8.63 11.28 12.52 Cabl dB 7.30 8.73 11.21 12.46	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limi -34.9 -30.7 -26.2 -24.3 Over lim: -35 -30	Remark t 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark t 12 Peak 21 Peak 22 Peak 23 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe	Cable 7.38 8.63 11.28 12.52 Cabl dB 7.30 8.73 11.21 12.46	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31	Limit	limi -34.9 -30.7 -26.2 -24.3 Over lim -35.2 -26.3 -24.4	Remark tt 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark it 22 Peak 21 Peak 22 Peak 24 Peak 58 Peak 59 Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37 802.11b Frequency	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe	Cabla d8 7.38 8.63 11.28 12.52 Cabl d8 7.30 8.73 11.21 12.46	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31	Limit May Ma	limi -34.9 -30.7 -26.2 -24.3 Over lim -35.2 -26.5 -24.6	Remark tt 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark it 22 Peak 21 Peak 22 Peak 29 Peak 29 Peak Wertical r Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37 802.11b Frequency MHz	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe	Cabl. dB 7.38 8.63 11.28 12.52 Cabl. dB 7.30 8.73 11.21 12.46	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11 e Preamp dB	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31 Leve dBuV/	Limit Manual Ma	limi -34.9 -30.7 -26.2 -24.3 Over lim -35.2 -26.5 -24.6	Remark tt 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark it 22 Peak 21 Peak 22 Peak 24 Peak 59 Peak Vertical r Remark it	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37 802.11b Frequency MHz 4366.07	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe	Cabl. dB 7.38 8.63 11.28 12.52 Cabl. dB 7.30 8.73 11.21 12.46 Cabl. dB 7.97	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11 e Preamp dB 36.16	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31 Leve dBuV/ 39.79	Limit	limi -34.9 -30.7 -26.2 -24.3 Over lim -36.5 -26.5 -24.6	Remark tt 9 Peak 2 Peak 0 Peak 7 Peak Horizontal r Remark it 22 Peak 21 Peak 22 Peak 24 Peak 58 Peak 59 Peak Vertical r Remark it 21 Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37 802.11b Frequency MHz 4366.07 4920.96	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13 Readir dBuV/ 37.45 40.36	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe ng Antenna dB 30.53 31.44	Cabla 7.38 8.63 11.28 12.52 Cabla 8.73 11.21 12.46 Cabla 8.73 11.21 12.46 Cabla 8.73 11.21 8.73 11.21 12.46 Cabla 12.46 Cabla 13.40 Cabla 14.40 Cabla 15.40 Cabla 16.40 Cabla 17.40 Cabla 18.40 Cabla Cabla Cabla Cabla Cabla Cabla C	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11 e Preamp dB 7 36.16 3 35.21	dBuV/s 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31 Leve dBuV/ 39.79 45.32	Limit	limi -34.9 -30.7 -26.2 -24.3 Over lim. -35.: -26.: -24.:	Remark t Peak Peak Peak Peak Peak Peak Peak Pea	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4004.08 4871.10 8125.22 10916.26 802.11b Frequency MHz 3893.52 4920.96 8104.56 10427.37 802.11b Frequency MHz 4366.07 4920.96 8002.06	dBuV/ 38.06 38.41 32.78 33.25 Readin dBuV/ 38.42 38.83 32.36 34.13	g Antenna dB 29.91 31.40 37.10 40.60 Test channe g Antenna dB 29.80 31.44 37.18 39.93 Test channe dB 30.53 31.44 37.10	Cabl. dB 7.38 8.63 11.28 12.52 Cabl. dB 7.30 8.73 11.21 12.46 Cabl. dB 7.97 8.73 10.91	e Preamp dB 36.34 35.16 33.36 36.74 CH11 e Preamp dB 36.74 35.21 33.33 37.21 CH11 e Preamp dB 36.16	dBuV/r 39.01 43.28 47.80 49.63 Leve dBuV/ 38.78 43.79 47.42 49.31 Leve dBuV/ 39.79 45.32 47.65	Limit	limi -34.9 -30.7 -26.2 -24.3 Over lim. -35.: -26.: -24.:	Remark t Peak Peak Peak Peak Peak Peak Peak Pea	

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Туре		802.11g		Test channel		CH01		Polarity		Horizontal
	Mark	Frequency MHz	Readin dBuV/		Cabl dB	e Preamp dB	Leve dBuV/		Over lim:	
	1	3747.66	39.51	29.50	7.07	37.14	38.94	74.00 -	35.0	06 Peak
	2	4834.05	45.15	31.40	8.53	35.20	49.88	74.00 -	24.1	12 Peak
	3	8083.96	32.52	37.20	11.15	33.32	47.55	74.00 -	26.4	45 Peak
	4	10750.81	33.80	40.20	12.50	36.88	49.62	74.00 -	24.:	38 Peak
Туре		802.11g		Test channel		CH01		Polarity		Vertical
	Mark	Frequency	Reading		Cable		Level		er	Remark
		MHz	dBuV/r		dB	dB	dBuV/m		mit	
	1	2382.20	35.89	27.74	5.52	37.47	31.68		.32	
	2	4076.07	37.82	30.00	7.45	36.32	38.95		.05	
	3 4	4834.05 4834.51	48.68 41.36	31.40 31.40	8.53	35.20 35.20	53.41 46.1		.59	
	5	8042.90	32.83		11.02	33.31	47.73		.27	•
	6	11399.03	32.94		12.69	36.43	49.80		.20	
Туре		802.11g		Test channel		CH06		Polarity		Horizontal
71						_		•	_	
	Mark	Frequency	Readin		Cabl				0ve	
		MHz	dBuV/		dB	dB	dBuV/		lim	
	1	4871.10	39.36	31.40	8.63		44.23		29.	
	2	8104.56	32.55	37.18	11.21		47.61		26.	
	3	9884.60	34.54	39.50	11.84		49.01		24.	
	4	11515.68	33.49	40.85	12.74	36.37	50.71	74.00 -	23.	29 Peak
Туре		802.11g		Test channel		CH06		Polarity		Vertical
	Mark	Frequency MHz	Readin dBuV/		Cab]	le Preamp dB	Leve dBuV		Ove	
	1	4055.37	38.21	30.00	7.43		39.32		-34	
	2	4883.52	42.27	31.40	8.67		47.16		-26	
	3	8022.46	33.14	37.14	10.99		47.92		-26	
	4	11486.41	32.98	40.86	12.73		50.19		-23	
Туре		802.11g		Test channel		CH11		Polarity		Horizontal
	Mark	Frequency	Readi	ng Antenna	Cab.	le Preamp	Leve	el Limit	Ove	r Remark
		MHz	dBuV,		dB	dB	dBuV,	/m dBuV/m	lin	it
	1	4933.50	39.21	31.47	8.75	5 35.20	44.23	74.00	29.	77 Peak
	2	7117.84	33.86	36.17	10.0	2 33.93	46.12	74.00	27.	88 Peak
	3	7981.72	33.67	37.03	10.89	9 33.31	48.28	74.00	25.	72 Peak
	4	10971.98	33.59	40.60	12.5	36.69	50.03	74.00	23.	97 Peak
Туре		802.11g		Test channel		CH11		Polarity		Vertical
	Mark	Frequency	Readin	•	Cab.				Ove	
	4	MHz	dBuV,		dB	dB	dBuV,			nit
	1	3507.65	39.88	29.13	6.80		39.17			.83 Peak
	2	4933.50	39.34	31.47	8.79		44.36			.64 Peak
	3	8042.90	32.85	37.19	11.0		47.75			.25 Peak
	4	10916.26	33.39	40.60	12.5	2 36.74	49.77	74.00	- 24	.23 Peak

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Туре		802.11n(H	HT20)	Test channe	el	CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	•	Cable dB	Preamp dB	Level dBuV/m		Over limit	Remark	
	1	4086.46	37.70	30.00	7.46	36.31	38.85	74.00	-35.15		
	2	4821.76	46.43	31.40	8.50	35.24	51.09	74.00	-22.91		
	3	4821.85	40.65	31.40	8.50	35.23	45.		-8.68		
	4	8083.96	32.89	37.20	11.15	33.32	47.92	74.00	-26.08	•	
	5	11312.31	33.31	40.42	12.66	36.48	49.91	74.00	-24.09	Peak	
Туре		802.11n(H	HT20)	Test channe	el	CH01		Polarity		Vertical	
	Mark	Frequency	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m		Over	Remark	
	1	3274.67	39.52	28.60	6.55	36.85	37.82	74.00	-36.18		
	2	4821.76	50.14	31.40	8.50	35.24	54.80	74.00	-19.20		
	3	4821.84	40.58	31.40	8.50	35.23	45.	25 54.00	-8.79	Average	
	4	8063.40	32.81	37.20	11.08	33.32	47.77	74.00	-26.23		
	5	11370.05	32.89	40.54	12.68	36.45	49.66	74.00	-24.34	Peak	
Туре		802.11n(H	HT20)	Test channe	el	CH06		Polarity		Horizontal	
	Mark	Frequency MHz	Readin dBuV/		Cabl dB	e Preamp	Leve dBuV/		Ove		
	1	4871.10	40.72	31.40	8.63		45.59	74.00	-28.		
	2	7981.72	32.86	37.03	10.89		47.47	74.00	-26.		
	3	10888.51	33.15	40.57	12.52		49.48	74.00	-24.		
	4	11515.68	32.45	40.85	12.74	36.37	49.67	74.00	-24.	33 Peak	
Туре		802.11n(H	HT20)	Test channe	el	CH06		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/r		Cable dB	Preamp dB	Leve:		Over limi		
	1	4871.10	42.18	31.40	8.63	35.16	47.05	74.00	-26.9	5 Peak	
	2	8063.40	32.84	37.20	11.08	33.32	47.80	74.00	-26.2	0 Peak	
	3	10534.09	33.79	40.03	12.47	37.06	49.23	74.00	-24.7	7 Peak	
	4	11457.21	33.00	40.77	12.72	36.40	50.09	74.00	-23.9	1 Peak	
Туре		802.11n(H	HT20)	Test channe	el e	CH11		Polarity		Horizontal	
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
		MHz	dBuV/n		dB	dB	dBuV/n		limi		
	1	4920.96	40.66	31.44	8.73	35.21	45.62	74.00	-28.3	8 Peak	
	2	8083.96	32.99	37.20	11.15	33.32	48.02	74.00	-25.9		
	3	9884.60	34.36	39.50	11.84	36.87	48.83	74.00	-25.1	7 Peak	
	4	10916.26	33.49	40.60	12.52	36.74	49.87	74.00	-24.1	3 Peak	
Туре		802.11n(H	HT20)	Test channe	el e	CH11		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/n		Cable dB	Preamp dB	Leve: dBuV/r		Over limi		
	1	4920.96	39.65	31.44	8.73	35.21	44.61	74.00	-29.3		
	2	8063.40	33.23	37.20	11.08	33.32	48.19	74.00	-25.8		
	3	10427.37	33.77	39.93	12.46	37.21	48.95	74.00	-25.0		
1		2012/13/					10100				
	4	10888.51	33.12	40.57	12.52	36.76	49.45	74.00	-24.5	5 Peak	

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Туре		802.11n(H	HT40)	Test channe	1 (CH03		Polarity	Horizontal	
	Mark	Frequency MHz	Readin dBuV/	•	Cable dB	Preamp dB	Level		ver Remark Lmit	
	1	1651.15	39.34	25.10	4.54	37.20	31.78	74.00 -42	2.22 Peak	
	2	4117.79	37.48	30.00	7.50	36.28	38.70	74.00 -35	30 Peak	
	3	4834.05	41.67	31.40	8.53	35.20	46.40		7.60 Peak	
	4	8083.96	32.88	37.20	11.15	33.32	47.91	74.00 -26	5.09 Peak	
Туре		802.11n(H	HT40)	Test channe	I (CH03		Polarity	Vertical	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Level dBuV/m		ver Remark Imit	
	1	1303.09	38.13	26.02	4.03	36.30	31.88	74.00 -42	.12 Peak	
	2	3644.18	38.35	29.40	6.96	37.01	37.70		.30 Peak	
	3	4834.05	39.97	31.40	8.53	35.20	44.70		.30 Peak	
	4	7432.62	33.56	36.60	10.33	33.98	46.51	74.00 -27	.49 Peak	
Туре		802.11n(H	HT40)	Test channe	I (CH06		Polarity	Horizontal	
	Mark	Frequency	Readin		Cable	Preamp	Level		ver Remark	
		MHz	dBuV/		dB	dB	dBuV/m		imit	
	1	1201.15	38.90	25.61	3.87	36.64	31.74		2.26 Peak	
	2	3384.85	39.31	28.54	6.68	36.88	37.65		5.35 Peak	
	3	4883.52 7900.86	36.48	31.40 36.80	8.67 10.81	35.18 33.33	41.37		2.63 Peak 5.60 Peak	
	4	7900.00	55.12	30.00	10.01	55.55	47.46	74.00 -20	o.ou Peak	
т										
Type		802.11n(H	HT40)	Test channel	l (CH06		Polarity	Vertical	
Туре	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve dBuV/	l Limit C	ver Remark	
туре		Frequency MHz	Readin dBuV/	g Antenna m dB	Cable dB	Preamp dB	dBuV/	l Limit C m dBuV/m l	over Remark	
Туре	1	Frequency MHz 1823.48	Readin dBuV/ 38.34	g Antenna m dB 25.49	Cable dB 4.79	Preamp dB 37.08	dBuV/ 31.54	l Limit 0 m dBuV/m l 74.00 -4	over Remark imit 2.46 Peak	
Type		Frequency MHz	Readin dBuV/	g Antenna m dB	Cable dB	Preamp dB	dBuV/	l Limit 0 m dBuV/m l 74.00 -4 74.00 -3	over Remark imit 2.46 Peak	
Type	1 2	Frequency MHz 1823.48 3598.09	Readin dBuV/ 38.34 38.90	g Antenna m dB 25.49 29.40	Cable dB 4.79 6.91	Preamp dB 37.08 36.93	dBuV/ 31.54 38.28	l Limit 0 m dBuV/m l 74.00 -4 74.00 -3 74.00 -2	Over Remark imit 2.46 Peak 5.72 Peak	
Туре	1 2 3	Frequency MHz 1823.48 3598.09 4883.52	Readin dBuV/ 38.34 38.90 39.84 32.61	g Antenna m dB 25.49 29.40 31.40	Cable d8 4.79 6.91 8.67 11.02	Preamp dB 37.08 36.93 35.18	dBuV/ 31.54 38.28 44.73	l Limit 0 m dBuV/m l 74.00 -4 74.00 -3 74.00 -2	Over Remark imit 12.46 Peak 15.72 Peak 19.27 Peak	
	1 2 3	Frequency MHz 1823.48 3598.09 4883.52 8042.90	Readin dBuV/ 38.34 38.90 39.84 32.61	g Antenna dB 25.49 29.40 31.40 37.19	Cable d8 4.79 6.91 8.67 11.02	Preamp dB 37.08 36.93 35.18 33.31	dBuV/ 31.54 38.28 44.73	l Limit 0 m dBuV/m 1 74.00 -4 74.00 -3 74.00 -2 74.00 -2	over Remark imit 12.46 Peak 15.72 Peak 19.27 Peak 16.49 Peak	
	1 2 3 4	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40)	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB	Cable dB 4.79 6.91 8.67 11.02 Cable dB	Preamp dB 37.08 36.93 35.18 33.31 CH09	dBuV/ 31.54 38.28 44.73 47.51 Leve	1 Limit 0 M dBuV/m 1 74.00 -4 74.00 -3 74.00 -2 74.00 -2 Polarity 1 Limit 0 M dBuV/m 1	over Remark imit 22.46 Peak 25.72 Peak 29.27 Peak 26.49 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15	g Antenna dB 25.49 29.40 31.40 37.19 Test channel g Antenna dB 25.92	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46	dBuV/ 31.54 38.28 44.73 47.51 Level dBuV/ 31.58	Dimit 0	over Remark imit 22.46 Peak 25.72 Peak 29.27 Peak 26.49 Peak Horizontal over Remark imit 2.42 Peak	
	1 2 3 4 Mark 1 2	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53	g Antenna dB 25.49 29.40 31.40 37.19 Test channel g Antenna dB 25.92 28.92	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57	dBuV/ 31.54 38.28 44.73 47.51 Level dBuV/ 31.58 37.63	Description of the second of t	over Remark imit 22.46 Peak 55.72 Peak 99.27 Peak 96.49 Peak Horizontal over Remark imit 2.42 Peak 6.37 Peak	l
	1 2 3 4 Mark 1 2 3	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23	g Antenna dB 25.49 29.40 31.40 37.19 Test channel g Antenna dB 25.92 28.92 31.42	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75 8.72	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22	dBuV/ 31.54 38.28 44.73 47.51 Level dBuV/ 31.58 37.63 42.15	Description of the second of t	ver Remark 2.46 Peak 5.72 Peak 9.27 Peak 6.49 Peak Horizontal ver Remark imit 2.42 Peak 6.37 Peak 1.85 Peak	1
	1 2 3 4 Mark 1 2	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53	g Antenna dB 25.49 29.40 31.40 37.19 Test channel g Antenna dB 25.92 28.92	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57	dBuV/ 31.54 38.28 44.73 47.51 Level dBuV/ 31.58 37.63	Description of the second of t	over Remark imit 22.46 Peak 55.72 Peak 99.27 Peak 96.49 Peak Horizontal over Remark imit 2.42 Peak 6.37 Peak	
	1 2 3 4 Mark 1 2 3	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70	g Antenna dB 25.49 29.40 31.40 37.19 Test channel g Antenna dB 25.92 28.92 31.42	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75 8.72 11.86	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22	dBuV/ 31.54 38.28 44.73 47.51 Level dBuV/ 31.58 37.63 42.15	Description of the second of t	ver Remark 2.46 Peak 5.72 Peak 9.27 Peak 6.49 Peak Horizontal ver Remark imit 2.42 Peak 6.37 Peak 1.85 Peak	
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(Frequency MHz 1260.67 3454.49 4908.44 9417.91 802.11n(Frequency	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70 HT40)	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB 25.92 28.92 31.42 39.20 Test channe	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75 8.72 11.86 Cable	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22 36.72 CH09	dBuV/ 31.54 38.28 44.73 47.51 Leve dBuV/ 31.58 37.63 42.15 48.04	l Limit 0 dBuV/m 1 74.00 -4 74.00 -2 74.00 -2 Polarity l Limit 0 dBuV/m 1 74.00 -4 74.00 -3 74.00 -3 74.00 -2 Polarity Limit 0v	ver Remark init 2.46 Peak 15.72 Peak 19.27 Peak 16.49 Peak Horizontal ver Remark imit 2.42 Peak 1.85 Peak 1.85 Peak Vertical er Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44 9417.91 802.11n(H Frequency MHz	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70 HT40) Readin dBuV/	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB 25.92 28.92 31.42 39.20 Test channe	Cable dB 4.79 6.91 8.67 11.02 Cable dB 3.97 6.75 8.72 11.86 Cable dB	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22 36.72 CH09 Preamp dB	dBuV/ 31.54 38.28 44.73 47.51 Leve dBuV/ 31.58 37.63 42.15 48.04 Level dBuV/m	l Limit 0 dBuV/m 1 74.00 -4 74.00 -3 74.00 -2 74.00 -2 Polarity l Limit 0 dBuV/m 1 74.00 -4 74.00 -3 74.00 -3 74.00 -2 Polarity Limit 0v dBuV/m 1i	ver Remark imit 12.46 Peak 15.72 Peak 19.27 Peak 16.49 Peak Horizontal ver Remark imit 12.42 Peak 1.85 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44 9417.91 802.11n(H Frequency MHz 1585.25	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70 HT40) Readin dBuV/ 38.17	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB 25.92 28.92 31.42 39.20 Test channe g Antenna dB 25.43	Cable dB 4.79 (Cable dB 3.97 6.75 8.72 11.86 (Cable dB 4.45)	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22 36.72 CH09 Preamp dB 37.08	dBuV/ 31.54 38.28 44.73 47.51 Leve dBuV/ 31.58 37.63 42.15 48.04 Level dBuV/m 30.97	l Limit 0 dBuV/m 1 74.00 -4 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 dBuV/m 1 74.00 -4 74.00 -3 74.00 -3 74.00 -2 Polarity Limit 0v dBuV/m 1i 74.00 -43	ver Remark init 12.46 Peak 15.72 Peak 19.27 Peak 19.27 Peak 16.49 Peak Horizontal ver Remark imit 12.42 Peak 1.85 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44 9417.91 802.11n(H Frequency MHz 1585.25 3653.46	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70 HT40) Readin dBuV/ 38.17 38.23	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB 25.92 28.92 31.42 39.20 Test channe g Antenna dB 25.43 29.40	Cable dB 4.79 (Cable dB 3.97 6.75 8.72 11.86 (Cable dB 4.45 6.97	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22 36.72 CH09 Preamp dB 37.08 37.08	dBuV/ 31.54 38.28 44.73 47.51 Leve dBuV/ 31.58 37.63 42.15 48.04 Level dBuV/m 30.97 37.58	Limit Company Compan	ver Remark imit i2.46 Peak i5.72 Peak i9.27 Peak i6.49 Peak Horizontal ver Remark imit i2.42 Peak i.85 Peak i.85 Peak Vertical er Remark iit i.03 Peak i.42 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1823.48 3598.09 4883.52 8042.90 802.11n(H Frequency MHz 1260.67 3454.49 4908.44 9417.91 802.11n(H Frequency MHz 1585.25	Readin dBuV/ 38.34 38.90 39.84 32.61 HT40) Readin dBuV/ 38.15 38.53 37.23 33.70 HT40) Readin dBuV/ 38.17	g Antenna dB 25.49 29.40 31.40 37.19 Test channe g Antenna dB 25.92 28.92 31.42 39.20 Test channe g Antenna dB 25.43	Cable dB 4.79 (Cable dB 3.97 6.75 8.72 11.86 (Cable dB 4.45)	Preamp dB 37.08 36.93 35.18 33.31 CH09 Preamp dB 36.46 36.57 35.22 36.72 CH09 Preamp dB 37.08	dBuV/ 31.54 38.28 44.73 47.51 Leve dBuV/ 31.58 37.63 42.15 48.04 Level dBuV/m 30.97	l Limit 0 74.00 -4 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 M dBuV/m 1 74.00 -4 74.00 -3 74.00 -3 74.00 -3 74.00 -3 74.00 -3 74.00 -2 Polarity	ver Remark init 12.46 Peak 15.72 Peak 19.27 Peak 19.27 Peak 16.49 Peak Horizontal ver Remark imit 12.42 Peak 1.85 Peak	

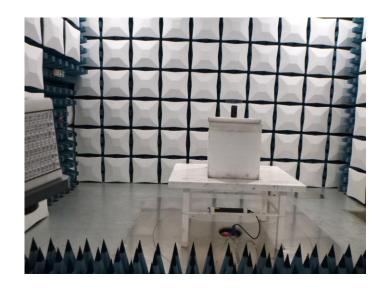
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6. TEST SETUP PHOTOS

Radiated Emission







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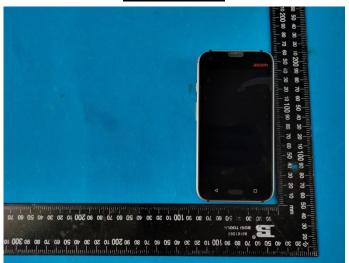
AC Conducted Emission



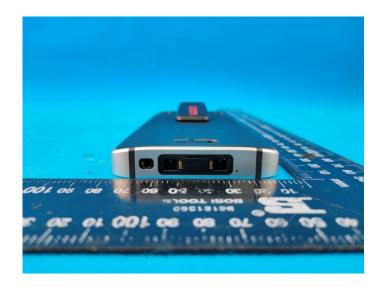
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7. EXTERANAL AND INTERNAL PHOTOS

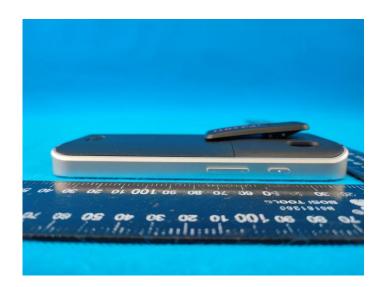
External Photos

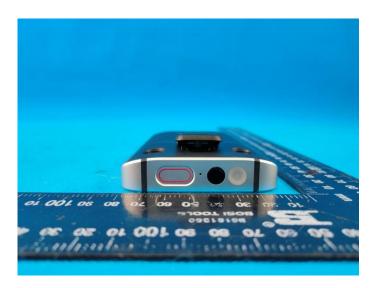






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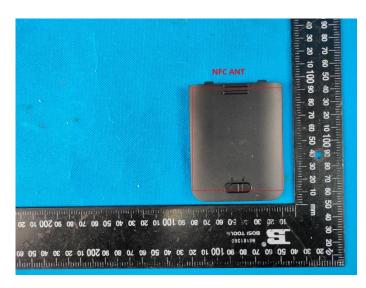


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Internal Photos

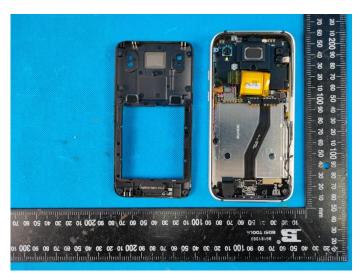


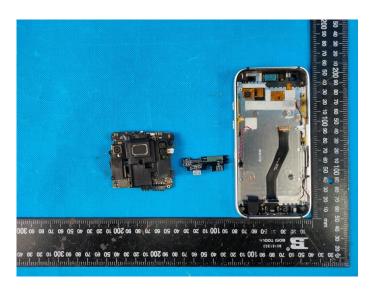




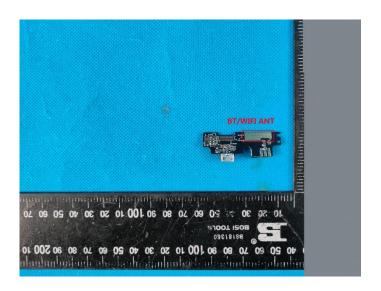
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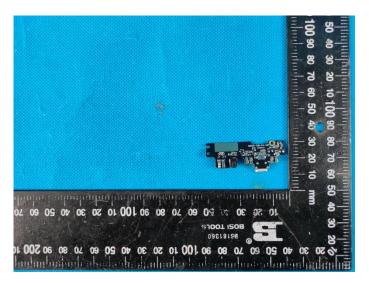


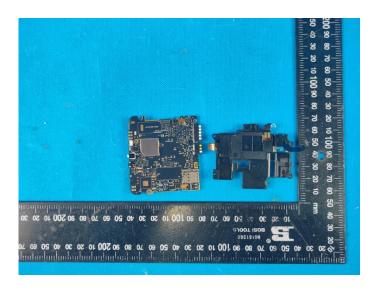




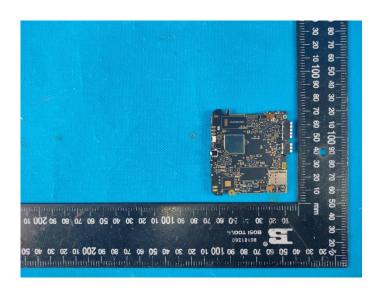
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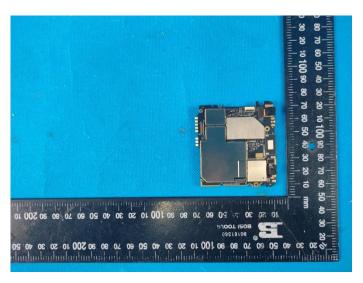


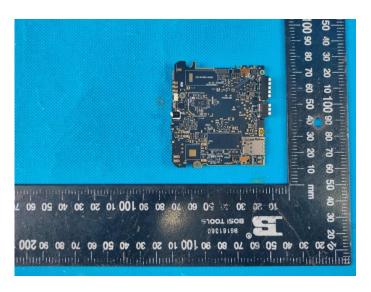




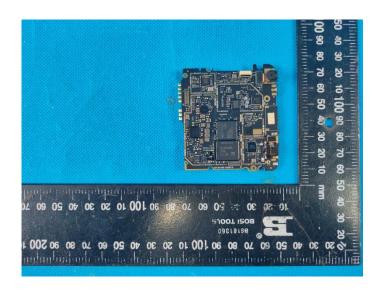
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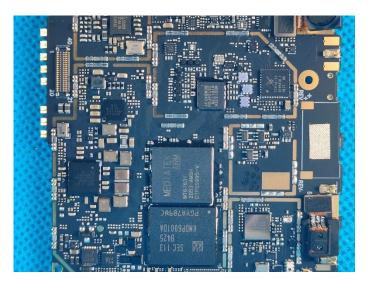


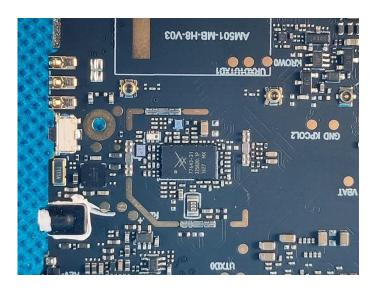




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8. APPENDIX REPORT