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TEST REPORT Report No.: CHTEW20110097 Report Verification: SHT2010078801EW Project No..... FCC ID.....: A2HCN6Q15E Applicant's name: Alco Electronics Ltd Address..... 11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong Test item description: **Notebook Computer** Venturer / AVITA Trade Mark Model/Type reference.....: CN6Q15 Listed Model(s) NS15A6, CN6QF5 FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standard : Date of receipt of test sample.....: Oct.29, 2020 Date of testing..... Oct.29, 2020- Nov.17, 2020 Date of issue.....: Nov.18, 2020 Result.....: PASS Compiled by cho Wei (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. 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Address..... Tianliao, Gongming, Shenzhen, China Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- <u>FCC Rules Part 15.247</u>: 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	2020-11-18	Original

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.

3. SUMMARY

3.1. Client Information

Applicant:	Alco Electronics Ltd	
Address:	11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong	
Manufacturer:	Alco Electronics Ltd	
Address:	11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong	

3.2. Product Description

Name of EUT:	Notebook Computer	
Trade Mark:	Venturer / AVITA	
Model No.:	CN6Q15	
Listed Model(s):	NS15A6, CN6QF5	
Power supply:	DC 7.6V	
Battery Information:	Model:PT3473125-2S 7.6V,4900mAh	
Adapter1 Information:	Model:ADS-45SN-19-3 19040G Input: AC100-240V, 50/60Hz, 1.2A Max Output: 19.0Vdc, 2.1A	
Adapter2 Information:	Model:A18-045N2A Input: AC100-240V, 50/60Hz, 1.4A Max Output: 19.0Vdc, 2.37A	
Hardware version:	AP625_6Q15D3EVT	
Software version:	BSEMHK-6Q14DRM80-AVI-V16	

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:	FPC Antenna		
Antenna gain:	2.44dBi		

Note:

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

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		
	Туре	Accreditation Number	
	CNAS	L1225	
Qualifications	A2LA	3902.01	
	FCC	762235	
	Canada	5377A	

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	Frequency (MHz)	Channel	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.

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.

4.7. Equipment Used during the Test

•	Conducted Em	ission					
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	2020/10/19	2021/10/18
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emiss	sion-6th test site					
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	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2020/04/28	2023/04/27
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/14	2021/11/13
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 01	N/A	N/A	2020/05/27	2021/05/26
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emis	sion-7th test site					
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	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/14	2021/11/13
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	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	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

<u>Requirement</u>

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

☑ Passed □ Not Applicable

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



5.2. AC Conducted Emission

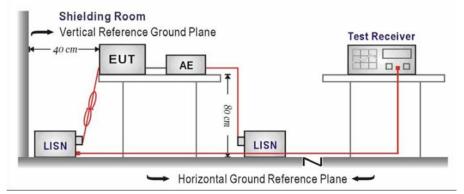
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

	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

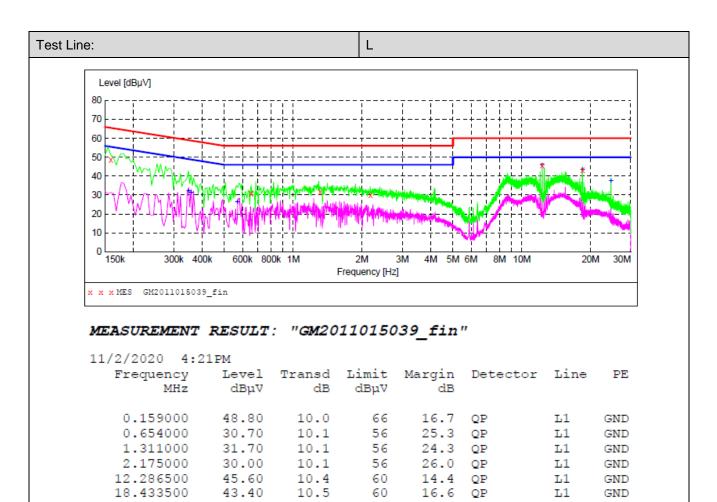
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any 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

☑ Passed □ Not Applicable



MEASUREMENT RESULT: "GM2011015039 fin2"

45.60

43.40

12.286500

18.433500

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.348000	32.10	10.1	49	16.9	AV	L1	GND
0.357000	31.40	10.1	49	17.4	AV	L1	GND
0.568500	26.40	10.1	46	19.6	AV	L1	GND
12.286500	45.60	10.4	50	4.4	AV	L1	GND
18.433500	43.10	10.5	50	6.9	AV	L1	GND
24.576000	37.30	10.6	50	12.7	AV	L1	GND

60

14.4 QP

16.6 QP

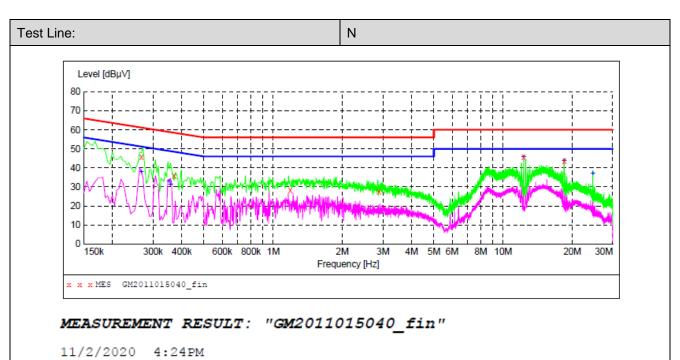
ь1

г1

GND

GND

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.267000 0.370500 1.185000 2.886000 12.286500	45.60 35.90 28.30 27.60 45.80	10.0 10.1 10.1 10.2 10.4	61 59 56 56 60	28.4	QP QP	N N N N	GND GND GND GND GND
18.433500	43.70	10.5	60	16.3	QP	N	GND

MEASUREMENT RESULT: "GM2011015040 fin2"

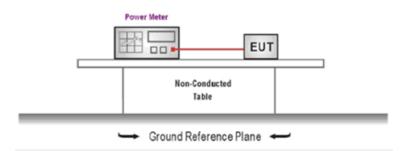
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.267000	38.00	10.0	51	13.2	AV	N	GND
0.352500	32.80	10.1	49	16.1	AV	N	GND
0.357000	31.30	10.1	49	17.5	AV	N	GND
12.286500	45.80	10.4	50	4.2	AV	N	GND
18.433500	43.60	10.5	50	6.4	AV	N	GND
24.576000	37.10	10.6	50	12.9	AV	Ν	GND

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

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix A on the appendix report

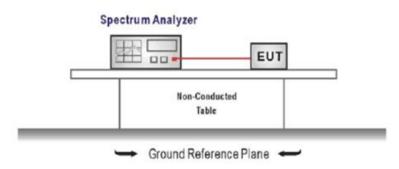
5.4. Power Spectral Density

<u>LIMIT</u>

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

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix B on the appendix report

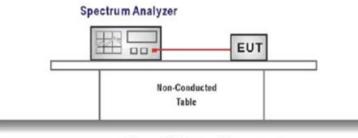
5.5. 6dB bandwidth

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



➡ Ground Reference Plane

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 \ge 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

🛛 Passed 🛛 🗌 Not

Not Applicable

TEST Data

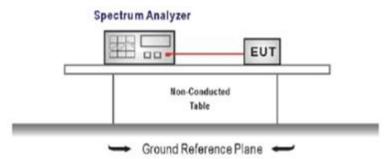
Please refer to appendix C on the appendix report

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.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the 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

3. 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

☑ Passed □ Not Applicable

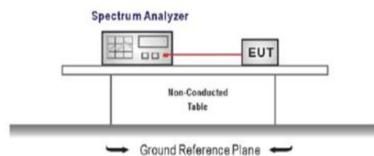
TEST Data

Please refer to appendix D on the appendix report

5.7. Duty Cycle

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. 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
- Use the following spectrum analyzer settings: Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ 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

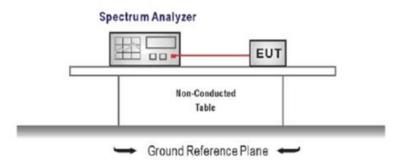
Please refer to appendix E on the appendix report

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.
- 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 ≥ 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 \ge 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

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

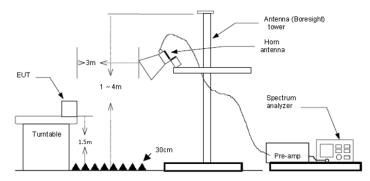
5.9. Radiated Band edge Emission

<u>LIMIT</u>

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. This is 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.
- 5. 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

☑ Passed □ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor = 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).

Туре		802.1	1b	Test c	hannel	CH	H01	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	2310.00	27.18	27.96	7.30	37.56	20.00	44.88	74.00	-29,12	Peak
	2	2390.01	27.62	27.72	7.72	37.45	20.00	45.61	74.00	-28.39	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	2310.00	20.39	27.96	7.30	37.56	20.00	38.09	9 54.00	-15.91	Average
	2	2390.01	21.39	27.72	7.72	37.45	20.00	39.38	3 54.00	-14.62	Average
Туре		802.1	1b	Test c	hannel	CH	101	F	Polarity		Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	28.76	27.96	7.30	37.56	20.00	46.46	74.00	-27.54	Peak
	2	2390.01	28.66	27.72	7.72	37.45	20.00	46.65	74.00	-27.35	Peak
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	21.00	27.96	7.30	37.56	20.00		- COCCOUNT (1997)	-15.30	Average
			22.18	27.72	7.72	37.45			54.00	-13.83	

Туре		802.1	1b	Test o	hanne	CI	H11	F	Polarity		Horizontal
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/r		Remark
	1	2483.49	27.99	27.43	7.80	37.26	20.00	45.96	74.00	-28.04	Peak
	2	2500.00	27.92	27.40	7.81	37.26	20.00	45.87	74.00	-28.13	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	20.83	27.43	7.80	37.26	20.00	REALFING OCT THE	54.00	-15.20	Average
	2	2500.00	20.25	27.40	7.81	37.26	20.00	38.20	54.00	-15.80	Average
Туре		802.1	1b	Test o	hanne	CI	H11	F	Polarity		Vertical
	Mark		Reading				and the second second	Level	Limit		
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV,	/m limi	
	1	2483.49	27.41	27.43	7.80	37.26	20.00	45.38	74.00	-28,62	Peak
	2	2500.00	28.05	27.40	7.81	37.26	20.00	46.00	74.00	-28.00	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over 1	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	21.22	27.43	7.80	37.26	20.00	39.19	54.00 -	14.81	Average
	2	2500.00	20.77	27.40	7.81	37.26	20.00	38.72	54 00 -	15.28	Average

Туре		802.1	1g	Test o	hannel	CH	101	F	Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over limit	Remark
	1	2310.00	27.49	27.96	7.30	37.56	20.00	45.19	74.00	-28.81	Peak
	2	2390.01	26.58	27.72	7.72	37.45	20.00	44.57	74.00	-29.43	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	1	MHz 2310.00	dBuV/m 21.50	dB 27.96	dB 7.30	dB 37,56	dB 20.00	dBuV/m	dBuV/m 54.00	limit -14.80	Average
	2	2390.01	21.26	27.72			20.00			-14.75	Average
Туре		802.1	1g	Test o	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	29.06	27.96	7.30	37.56	20,00	46.76	74.00	-27.24	Peak
	2	2390.01	28.02	27.72	7.72	37.45	20.00	46.01	74.00	-27.99	Peak
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	21.44	27.96	7.30		20.00	and a second second second second	54.00		Average
	2	2390.01	20.51	27.72	7.72		20.00			-15.50	Average

Туре		802.1	Test c	Test channel			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	2483.49	27.82	27.43	7.80	37.26	20.00	45.79	74.00	-28.21	Peak
	2	2500.00	26.84	27.40	7.81	37.26	20.00	44.79	74.00	-29.21	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	21.39	27.43	7.80	37.26	20.00	39.30	5 54.00	-14.64	Average
	2	2500.00	21.10	27.40	7.81	37.26	20.00	39.05	5 54.00	-14.95	Average
Туре		802.1	1g	Test c	hannel	CH	111	F	Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/n		Remark
	1	2483.49	28.45	27.43	7.80	37.26	20.00	46.42	74.00		
	2	2500.00	28.10	27.40	7.81	37.26	20.00	46.05	74.00		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	21.97	27.43	7.80	37.26	20.00	39.94	54.00 -	14.06	Average
	2	2500.00	21.32	27.40	7.81	37.26	20.00	39.27	54.00 -	14.73	Average

Туре			802.1	1n(HT20)	Test c	hannel	CH	101	F	Polarity		Horizontal
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	Aux dB	Level dBuV/m	Limit dBuV/		
	1	2310	.00	28.66	27.96	7.30	37.56	20.00	46.36	74.00	-27.64	Peak
	2	2390	.01	29.70	27.72	7.72	37.45	20.00	47.69	74.00	-26.31	Peak
	Mark	Freq	uency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.		20.29	27.96		and the state of the	20.00	and the second se		-16.01	Average
	2	2390.		20.71	27.72		2000	20.00			-15.30	Average
Туре			802.1	1n(HT20)	Test c	hannel	CH	H01	F	Polarity		Vertical
	Mark	Freq MH	uency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.	00	28.60	27.96	7.30	37.56	20.00	46.30	74.00	-27.70	Peak
	2	2390.	01	28.23	27.72	7.72	37.45	20.00	46.22	74.00	-27.78	Peak
	Mark	Freq MH	uency z	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.	00	22.13	27.96	7.30	37.56	20.00	39.83	54.00	-14.17	Average
	2	2390.	01	21.92	27.72	7.72	37.45	20.00	30 01	54.00	-14.09	Average

Туре		802.1	1n(HT20)	Test c	hannel	C⊦	111	P	olarity		Horizontal
	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	30.14	27.43	7.80	37.26	20.00	48.11	74.00	-25.89	Peak
	2	2500.00	28.21	27.40	7.81	37.26	20.00	46.16	74.00	-27.84	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	20.94	27.43	7.80	37.26	20.00	38.91	54.00 -	15.09	Average
	2	2500.00	20.56	27.40	7.81	37.26	20.00	38.51	54.00 -	15.49	Average
Туре		802.1	1n(HT20)	Test c	hannel	CH	111	P	olarity		Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/n	Over limi	
	1	2483.49	29.06	27.43	7.80	37.26	20.00	47.03	74.00	-26.97	
	2	2500.00	28.53	27.40	7.81	37.26	20.00	46.48	74.00	-27.52	
	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	21.72	27.43	7.80	37.26	20.00	39.69	54.00	-14.31	Average
	2	2500.00	20.59	27.40	7.81	37.26	20.00	38 54	54.00	-15.46	Average

Туре		802.1	1n(HT40)	Test c	hannel	CH	103	P	olarity		Horizontal
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/n	Over limit	Remark
	1	2310.00	27.92	27.96	7.30	37.56	20.00	45.62	74.00	-28.38	Peak
	2	2393.18	28.35	27.71	7.74	37.44	20.00	46.36	74.00	-27.64	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	20.65	27.96	7.30	37.56	20.00	38.35	54.00 -	15.65	Average
	2	2389.99	22.58	27.72	7.72	37.45	20.00	40.57	54.00	13.43	Average
Туре		802.1	1n(HT40)	Test c	hannel	CH	103	P	olarity		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	28.07	27.96	7.30	37.56	20.00	45.77	74.00	-28.23	Peak
	2	2389.99	27.63	27.72	7.72	37.45	20.00	45.62	74.00	-28.38	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	2310.00	22.28	27.96	7.30	37.56	20.00	39.98	54.00	-14.02	Average
	2	2389.99	20.95	27.72	7.72	37.45	20.00	20.04	54.00	-15.06	Average

Туре		802.1	1n(HT40)	Test c	hannel	CH	109	F	Polarity		Horizontal
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	33.28	27.43	7.80	37.26	20.00	51.25	74.00	-22.75	Peak
	2	2500.00	27.76	27.40	7.81	37.26	20.00	45.71	74.00	-28.29	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	2483.40	26.10	27.43	7.80	37.26	20.00	44.07	54.00	-9.93	Average
	2	2500.00	20.26	27.40	7.81	37.26	20.00	38.21	54.00	-15.79	Average
Гуре		802.1	1n(HT40)	Test c	hannel	CH	109	F	olarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/r	n limit	
	1	2483.50	27.67	27.43	7.80	37.26	20.00	45.64	74.00	-28.36	Peak
	2	2500.00	28.60	27.40	7.81	37.26	20.00	46.55	74.00	-27.45	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	20.98	27.43	7.80	37.26	20.00	38.95	54.00	-15.05	Average
	-										

5.10. Radiated Spurious Emission

<u>LIMIT</u>

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

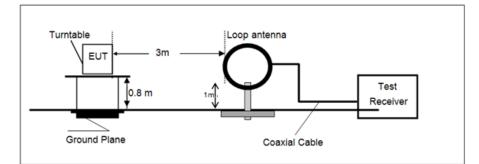
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

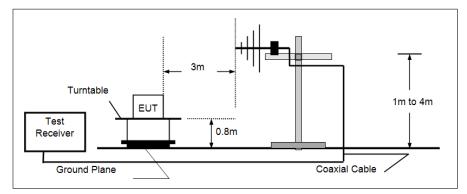
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

> 9 kHz ~ 30 MHz

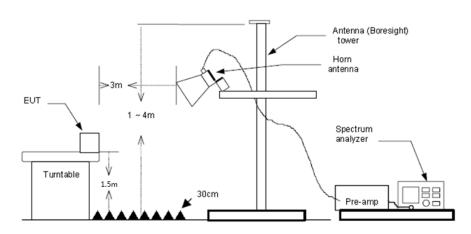


> 30 MHz ~ 1 GHz



Above 1 GHz

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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 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.
- 6. 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

☑ Passed □ Not Applicable

Note:

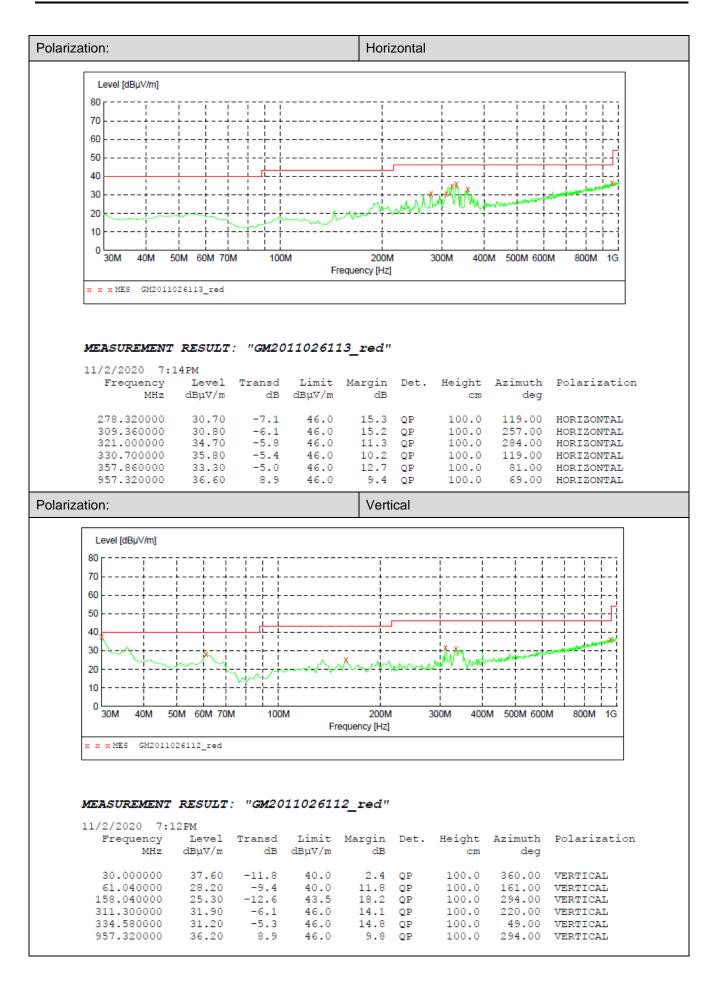
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

<u> TEST DATA FOR 9 kHz ~ 30 MHz</u>

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.

<u> TEST DATA FOR 30 MHz ~ 1000 MHz</u>

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.



Туре		802.1	1b	Test	hannel	C	H01		Polarity	Horizontal
	Mark	Frequency	Reading		Cable	Pream	p Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/n	n dBuV/m limi	t
	1	1254.27	33.45	25.91	5.27	36.48	0.00	28.15	74.00 -45.85	Peak
	2	3672.11	32.10	29.40	9.88	37.03	0.00	34.35	74.00 -39.65	Peak
	3	4821.76	37.72	31.40	11.52	35.24	0.00	45.40	74.00 -28.60	Peak
	4	9734.78	31.08	39.60	15.13	36.41	0.00	49.40	74.00 -24.60	Peak
Туре		802.1	1b	Test	hannel	CI	H01		Polarity	Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Pream	np Aux dB	Level dBuV/		
	1	1213.44	34.34	25.68	5.14	36.63	0.00	28.53	74.00 -45.4	7 Peak
	2	3561.64	32.05	29.32	9.87	36.83	0.00	34.41	74.00 -39.5	
	3	5646.08	31.76	31.90	12.46	35.00	0.00	41.12	74.00 -32.8	
	4	8042.90	30.98	37.19		33.31	0.00	49.14	74.00 -24.8	
Туре		802.1	1b	Test o	hannel	CI	H06		Polarity	Horizontal
	Mark	Frequency	Reading	Antenna		Pream	p Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/r	m dBuV/m limi	lt
	1	1267.10	33.43	25.93	5.31	36.43	0.00	28.24	74.00 -45.76	5 Peak
	2	3709.69	31.37	29.42	9.79	37.07	0.00	33.51	74.00 -40.49	Peak
	3	4871.10	41.63	31.40	11.51	35.16	0.00	49.38	74.00 -24.62	2 Peak
	4	7860.74	30.77	36.64		33.28	0.00	48.62	74.00 -25.38	
Туре		802.1	1b	Test o	hannel	C	H06		Polarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/n	n dBuV/m limi	t
	1	1251.08	34.16	25.90	5.26	36.50	0.00	28.82	74.00 -45.18	Peak
	2	3143.98	33.20	29.00	8.67	37.21	0.00	33.66	74.00 -40.34	Peak
	3	4871.10	36.07	31.40	11.51	35.16	0.00	43.82	74.00 -30.18	Peak
	4	8681.17	32.13	37.62		34.83	0.00	50.03	74.00 -23.97	
Туре		802.1	1b	Test o	hannel	C	H11		Polarity	Horizontal
	Mark	Frequency	Reading	Antenna		Pream	p Aux	Level	Limit Ove	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m lim	it
	1	1283.34	33.65	25.97	5.37	36.36	0.00	28.63	74.00 -45.3	7 Peak
	2	4014.29	31.26	29.93	10.18	36.31	0.00	35.06	74.00 -38.9	4 Peak
	з	4920.96	35.50	31.44	11.51	35.21	0.00	43.24	74.00 -30.7	6 Peak
	4	8725.48	31.45	37.70	15.33	34.75	0.00	49.73	74.00 -24.2	7 Peak
		802.1	1b	Test	hannel	CI	H11		Polarity	Vertical
Туре					144030		Aux	Level	Limit Over	Remark
Туре	Mark	Frequency	Reading	Antenna		Pream	- Hun	LEVET	LTWITC OVEL	include in
Туре	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	dB	dB	dBuV/n		
Туре	Mark 1					1				t
Туре		MHz	dBuV/m	dB	dB 5.00	dB	dB	dBuV/m	n dBuV/m limi	t Peak
Туре	1	MHz 1127.09	dBuV/m 34.82	dB 25.40	dB 5.00 10.19	dB 36.84	dB 0.00	dBuV/m 28.38	n dBuV/m limi 74.00 -45.62	t Peak Peak

TEST DATA FOR 1 GHz ~ 25 GHz

Mark	Enc			Test channel CH							
		quency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/		Over limi	
1	1296		33.16	25.99	5.41	36.30	0.00	28.26	74.00	-45.74	
4			30.81	36.95	14.41	33.32			74.00	-25.15	
		802.1	1g	Test c	hannel	CH	01		Polarity		Vertical
Mark							Aux			Over	Remark
1									and the second		Peak
							200				Peak
											Peak
4			32.21	36.88			0.00	50.24			Peak
		802.1	1g	Test c	hannel	CH	06		Polarity		Horizontal
Mark	Free	quency	Reading	Antenna		Preamp	Aux	Level	Limit	Over	Remark
			dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m	limit	t
1	1309	.74	32.69	26.06	5.43	36.32	0.00	27.86	74.00	-46.14	Peak
2	3625	.67	31.05	29.40	10.02	36.99	0.00	33.48	74.00	-40.52	Peak
3											Peak
4			31.14	37.18	14.29	33.33	0.00	49.28	74.00	-24.72	Peak
		802.1	1g	Test c	hannel	CH	06		Polarity		Vertical
Mark	Freq	uency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
	MH	z	dBuV/m	dB	dB	dB	dB	dBuV/	m dBuV/m	limit	t
1	1147.	35	35.08	25.40	5.03	36.78	0.00	28.73	74.00	-45.27	Peak
2	3863.	90	31.83	29.80	9.92	36.81	0.00	34.74	74.00	-39.26	Peak
3	4883.	52	32.05	31.40	11.50	35.18	0.00	39.77	74.00	-34.23	Peak
4	9111.	35	32.09	38.45	15.22	36.07	0.00	49.69	74.00	-24.31	Peak
		802.1	1g	Test c	hannel	CH	11		Polarity		Horizontal
Mark						and the second se				Over	
										15 2 2 2 2 2 3	
з			39.87	31.44	11.51	35.21		47.61	74.00	-26.39	
4	9859	.47	32.45	39.50	15.26	36.65	0.00	50.56	74.00	-23.44	Peak
		802.1	1g	Test c	hannel	CH	11		Polarity		Vertical
Mark			Reading dBuV/m				Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1											Peak
											Peak
	4883.		31.59		11.50		0.00	39.31		-34.69	Peak
-	8063.		32.15		14.28						
	Mark 1 2 3 4 Mark 1 2 3 3 4 Mark 1 2 3 3 4 Mark 1 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	3 4834 4 7961 Mark Free Mark Free Mark Free Mark Free Mark Free Mark Free Mark Free MH 1 1147. 2 3625 3 4871 4 8104 Mark Free MH 1 1147. 2 3863. 3 4883. 4 9111. Mark Free MH 1 1225 2 4278 3 4920 4 9859 Mark Free MH	3 4834.05 4 7961.43 Mark Frequency MHz 1 1303.09 2 4288.96 3 5689.36 4 7941.19 2 3625.67 3 4871.10 4 8104.56 802.1° Mark Frequency MHz 1 1309.74 2 3625.67 3 4871.10 4 8104.56 Mark Frequency MHz 1 1147.35 2 3863.90 3 4883.52 4 9111.35 802.1° Mark Frequency MHz 1 1225.86 2 4278.06 3 4920.96 4 9859.47	3 4834.05 37.81 4 7961.43 30.81 802.11g Mark Frequency Reading MHz dBuV/m 1 1303.09 32.93 2 4288.96 30.78 3 5689.36 30.29 2 4288.96 30.78 3 5689.36 30.29 4 7941.19 32.21 32.21 Mark Frequency Reading MHz dBuV/m 1 1309.74 32.69 2 3625.67 31.05 3 4871.10 35.11 4 8104.56 31.14 30.487 3602.11g Mark Frequency Reading MHz dBuV/m 1 1147.35 35.08 3 363.90 31.83 3 4883.52 32.05 4 9111.35 32.09 Mark Frequency Reading MHz dBuV/m 1 1225.86 34.24 2 4278.06 31.03 3 4920.96 39.	3 4834.05 37.81 31.40 4 7961.43 30.81 36.95 Mark Frequency Reading Antenna MHz dBuV/m dB dB 1 1303.09 32.93 26.02 2 4288.96 30.78 30.28 3 5689.36 30.29 31.90 4 7941.19 32.21 36.88 Mark Frequency Reading Antenna MHz dBuV/m dB dB 1 1309.74 32.69 26.06 2 3625.67 31.05 29.40 3 4871.10 35.11 31.40 4 8104.56 31.14 37.18 Mark Frequency Reading Antenna MHz dBuV/m dB dB 1 1147.35 35.08 25.40 2 3863.90 31.83 29.80 3 4883.52 32.05 31.40 4 9111.35 32.09 38.45	3 4834.05 37.81 31.40 11.51 4 7961.43 30.81 36.95 14.41 802.11g Test channel Mark Frequency Reading MHz Antenna Cable dB 1 1303.09 32.93 26.02 5.42 2 4288.96 30.78 30.28 10.69 3 5689.36 30.29 31.90 12.48 4 7941.19 32.21 36.88 14.47 Mark Frequency Reading MHz Antenna Cable dB dB Mark Frequency Reading MHz Antenna Cable dB dB 1 1309.74 32.69 26.06 5.43 2 3625.67 31.05 29.40 10.02 3 4871.10 35.11 31.40 11.51 4 8104.56 31.14 37.18 14.29 Mark Frequency Reading MHz Antenna Cable dB 1 1147.35 35.08 25.40 5.03 <	3 4834.05 37.81 31.40 11.51 35.20 4 7961.43 30.81 36.95 14.41 33.32 Mark Frequency MHz Reading dBuV/m Antenna Cable MB Preamp dB Mark Frequency MHz Reading dBuV/m Antenna Cable Cable Preamp dB 1 1303.09 32.93 26.02 5.42 36.30 2 4288.96 30.78 30.28 10.69 36.10 3 5689.36 30.29 1.90 12.48 34.93 4 7941.19 32.21 36.88 14.47 33.32 Mark Frequency MHz Reading dBU/m Antenna Cable Preamp MB MHz dBU/m dB dB dB dB dB 1 1309.74 32.69 26.06 5.43 36.32 2 362.11g Test channel CH0 Mark Frequency MHz Reading dBUV/m Antenna Cable <td>3 4834.05 37.81 31.40 11.51 35.20 0.00 4 7961.43 30.81 36.95 14.41 33.32 0.00 Mark Frequency MHz Reading dBuV/m Antenna Cable Preamp MB Aux 1 133.09 32.93 26.02 5.42 36.30 0.00 2 4288.96 30.78 30.28 10.69 36.10 0.00 3 5689.36 30.29 31.90 12.48 34.93 0.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 2 3625.67 31.05 29.40 10.02 36.99 0.00 3 4871.10 35.11 31.40 11.51 35.16 0.00 4 8104.56 31.14 37.18 14.29 33.33 0.00 Mark Frequency MHz Reading dBuV/m Antenna Cable Preamp dB Aux Aux Aux <</td> <td>3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 802.11g Test channel CH01 Mark Frequency Reading Antenna Cable Preamp Aux Level MHz dBu//m dB dB</td> <td>3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 74.00 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 74.00 Mark Frequency MHz Reading dBU/m Antenna Cable dB Preamp dB Aux dB Level dB Limit dBU/m 1 1303.09 32.93 26.02 5.42 36.30 0.00 38.65 74.00 2 4288.96 30.78 30.281 10.69 36.10 0.00 35.65 74.00 3 5689.36 30.29 31.90 12.48 34.93 0.00 39.74 74.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 50.5 74.00 Mark Frequency MHz Reading dBU/m Antenna Cable Preamp Aux Level Limit 1 1309.74 32.69 26.06 5.43 36.32 0.00 33.48 74.00 2 3625.67 31.05 29.40 10.02 36.99 0.00<td>3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 74.00 -28.48 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 74.00 -28.48 802.11g Test channel CH01 Polarity Mark Frequency dBuV/m Reading dBuV/m Antenna Cable dB dB <thdb< th=""></thdb<></td></td>	3 4834.05 37.81 31.40 11.51 35.20 0.00 4 7961.43 30.81 36.95 14.41 33.32 0.00 Mark Frequency MHz Reading dBuV/m Antenna Cable Preamp MB Aux 1 133.09 32.93 26.02 5.42 36.30 0.00 2 4288.96 30.78 30.28 10.69 36.10 0.00 3 5689.36 30.29 31.90 12.48 34.93 0.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 2 3625.67 31.05 29.40 10.02 36.99 0.00 3 4871.10 35.11 31.40 11.51 35.16 0.00 4 8104.56 31.14 37.18 14.29 33.33 0.00 Mark Frequency MHz Reading dBuV/m Antenna Cable Preamp dB Aux Aux Aux <	3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 802.11g Test channel CH01 Mark Frequency Reading Antenna Cable Preamp Aux Level MHz dBu//m dB dB	3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 74.00 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 74.00 Mark Frequency MHz Reading dBU/m Antenna Cable dB Preamp dB Aux dB Level dB Limit dBU/m 1 1303.09 32.93 26.02 5.42 36.30 0.00 38.65 74.00 2 4288.96 30.78 30.281 10.69 36.10 0.00 35.65 74.00 3 5689.36 30.29 31.90 12.48 34.93 0.00 39.74 74.00 4 7941.19 32.21 36.88 14.47 33.32 0.00 50.5 74.00 Mark Frequency MHz Reading dBU/m Antenna Cable Preamp Aux Level Limit 1 1309.74 32.69 26.06 5.43 36.32 0.00 33.48 74.00 2 3625.67 31.05 29.40 10.02 36.99 0.00 <td>3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 74.00 -28.48 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 74.00 -28.48 802.11g Test channel CH01 Polarity Mark Frequency dBuV/m Reading dBuV/m Antenna Cable dB dB <thdb< th=""></thdb<></td>	3 4834.05 37.81 31.40 11.51 35.20 0.00 45.52 74.00 -28.48 4 7961.43 30.81 36.95 14.41 33.32 0.00 48.85 74.00 -28.48 802.11g Test channel CH01 Polarity Mark Frequency dBuV/m Reading dBuV/m Antenna Cable dB dB dB <thdb< th=""></thdb<>

Туре	802.1		802.1	1n(HT20)	Test c	hannel	CH	01	F	Polarity		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	1273	.57	33.85	25.95	5.34	36.40	0.00	28.74	74.00	-45.26	Peak
	2	3534	.54	31.25	29.24	9.71	36.75	0.00	33.45	74.00	-40.55	Peak
	з	4834	.05	34.70	31.40	11.51	35.20	0.00	42.41	74.00	-31.59	Peak
	4	8022	.46	32.14	37.14	14.29	33.31	0.00	50.26	74.00	-23.74	Peak
Туре			802.1	1n(HT20)	Test c	hannel	CH	01	F	Polarity		Vertical
	Mark	Fred		Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1286.	61	32.93	25.97	5.38	36.35	0.00	27.93	74.00	-46.07	Peak
	2	4343.	90	30.52	30.48	10.70	36.20	0.00	35.50	74.00	-38.50	Peak
	3	6611.	33	29.74	34.30	13.26	34.58	0.00	42.72	74.00	-31.28	Peak
	4	9204.	60	31.63	38.82	15.11	35.95	0.00	49.61	74.00	-24.39	Peak
Туре			802.1	1n(HT20)	Test c	hannel	CH	06	F	Polarity		Horizontal
	Mark		quency		Antenna			Aux	Level	Limit	Over	Remark
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/m		limit	
	1	1219	.64	34.75	25.72	5.16	36.62	0.00	29.01		-44.99	Peak
	2	3552		31.74	29.31	9.82	36.80	0.00	34.07	74.00	-39.93	Peak
	3	4871	.10	41.32	31.40	11.51	35.16	0.00	49.07	74.00 .	-24.93	Peak
	4	9111	.35	32.06	38.45	15.22	36.07	0.00	49.66	74.00	-24.34	Peak
Туре			802.1	1n(HT20)	Test c	hannel	CH	06	F	Polarity		Vertical
	Mark		quency		Antenna			Aux	Level	Limit	Over	Remark
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/m		limit	
	1	1260		34.63	25.92	5.29	36.46	0.00	29.38		-44.62	Peak
	2	4170		31.26	30.04	10.22	36.25	0.00	35.27		-38.73	Peak
	3	5718		30.02	31.90	12.44	34.88	0.00	39.48		-34.52	Peak
	4	9759	.59	31.74	39.60	15.07	36.29	0.00	50.12	74.00	-23.88	Peak
Туре			802.1	1n(HT20)	Test c	hannel	CH	11	F	Polarity		Horizontal
	Mark		quency				Preamp	Aux	Level	Limit	Over	Remark
			Hz	dBuV/m	dB	dB	dB 36.42	dB	dBuV/m 28.57	dBuV/m	limit	
	1	1270		33.73	25.94	5.32		0.00			45.43	Peak
	2	3700		33.63	29.40	9.79	37.05	0.00	35.77		-38.23	Peak
	3	4920		35.16	31.44	11.51	35.21	0.00	42.90		-31.10	Peak
	4	10480		31.57	39.98	16.43	37.12	0.00	50.86		23.14	Peak
Туре			802.1 ⁻	1n(HT20)		hannel	CH	11	F	Polarity		Vertical
	Mark		uency		Antenna			Aux	Level	Limit	Over	
	1		1Z	dBuV/m	dB	dB	dB	dB	dBuV/m		limi	
		1216.		33.35	25.70	5.15	36.62	0.00	27.58		-46.42	
		4299.	89	30.74	30.30	10.75	36.09	0.00	35.70	74.00	-38.30	
			~~									-
	з	6713. 7961.		30.11 31.62	34.30 36.95	13.79 14.41	34.44 33.32	0.00	43.76		-30.24	

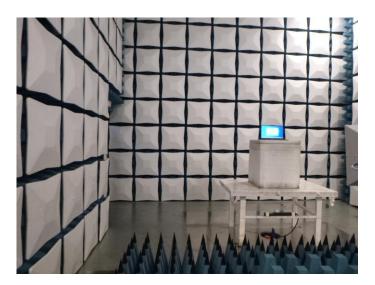
Туре			802.1	1n(HT40)	Test c	hannel	CH)3		Polarity	Horizontal
	Mark		equency Hz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/r	Limit Ove n dBuV/m lim	
	1		2.94	34.34	25.53	5.07	36.67	0.00	28.27	74.00 -45.7	
	2		5.67	31.81	29.40	10.02	36.99	0.00	34.24	74.00 -39.7	
	3	4840		33.77	31.40	11.51	35.17	0.00	41.51	74.00 -32.4	
	4		3.06	32.30	38.91	15.12		0.00	50.29	74.00 -23.7	
Гуре			802.1	1n(HT40)	Test c	hannel	CH)3		Polarity	Vertical
	Mark		equency MHz	dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1	121	6.53	34.79	25.70	5.15	36.62	0.00	29.02	74.00 -44.98	Peak
	2		6.37	32.62	31.40	11.51	35.17	0.00	40.36	74.00 -33.64	Peak
	з	574	7.59	31.08	31.90	12.38	34.85	0.00	40.51	74.00 -33.49	
	4	983	4.41	32.26	39.53	15.14	36.42	0.00	50.51	74.00 -23.49	Peak
Гуре			802.1	1n(HT40)	Test c	hannel	CH)6		Polarity	Horizontal
	Mark			Reading				Aux	Level	Limit Over	
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/m		
	1		5.53	34.64	25.70		36.62	0.00	28.87	74.00 -45.13	
	2	4343		30.99			36.20	0.00	35.97	74.00 -38.03	
	3	6645		30.27		13.47	34.54	0.00	43.50	74.00 -30.50	
	4	8042	2.90	32.07	37.19	14.28	33.31	0.00	50.23	74.00 -23.77	7 Peak
Туре			802.1	1n(HT40)	Test c	hannel	CH	06		Polarity	Vertical
	Mark	c Fr	equency						Level		
			MHz	dBuV/m	dB	dB	dB	dB	dBuV/		
	1		54.27	34.23	25.91	5,27	36.48	0.00		74.00 -45.0	
	2		56.79	32.07	29.53	9.82	37.12	0.00		74.00 -39.7	
	3		32.97	30.47	31.90	12.41	34.85	0.00		74.00 -34.0	
	4	816	56.69	31.54	36.90	14.50	33.43	0.00	49.51	74.00 -24.4	9 Peak
Гуре			802.12	1n(HT40)	Test c	hannel	CH)9		Polarity	Horizontal
	Mark			Reading			Preamp	Aux	Level	Limit Over	
			MHz	dBuV/m	dB	dB	dB	dB	dBuV/m		
	1		3.57	33.42	25.95	5.34	36.40	0.00	28.31	74.00 -45.69	
	2		4.18	30.97	29.40	9.96	37.01	0.00	33.32	74.00 -40.68	
	3		1.10	41.00	31.40	11.51	35.16	0.00	48.75	74.00 -25.25	
	4	1083	3.22	30.90	40.40	16.65	36.81	0.00	51.14	74.00 -22.86	5 Pea <mark>k</mark>
Гуре			802.1	1n(HT40)	Test c	hannel	CH)9		Polarity	Vertical
	Mark		equency	Reading	Antenna			Aux	Level		
			MHz	dBuV/m	dB	dB	dB	dB	dBuV/		
	1		1.56	34.51	25.85	5.23	36.53	0.00	29.06	74.00 -44.9	
	2		4.97	30.96	30.51	10.69	36.18	0.00	35.98	74.00 -38.0	
	3		7.59	31.05	31.90	12.38	34.85	0.00	40.48	74.00 -33.5	
	4	NON	2.06	31.20	37.10	14.29	33.31	0.00	49.28	74.00 -24.7	2 Peak

6. TEST SETUP PHOTOS

Radiated Emission



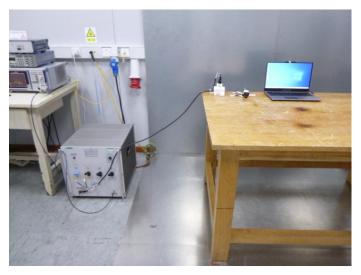




Shenzhen Huatongwei International Inspection Co., Ltd.

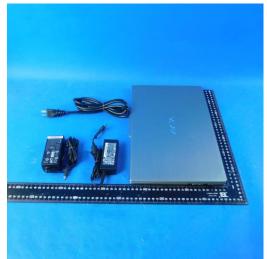


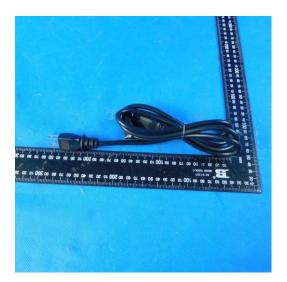
AC Conducted Emission

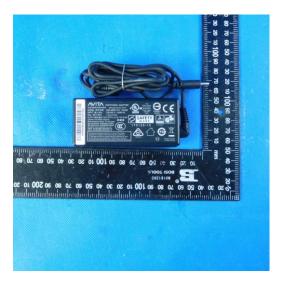


7. EXTERANAL AND INTERNAL PHOTOS

External Photos





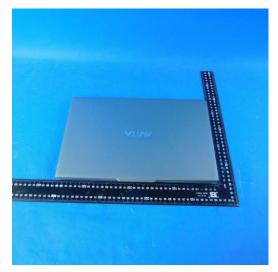


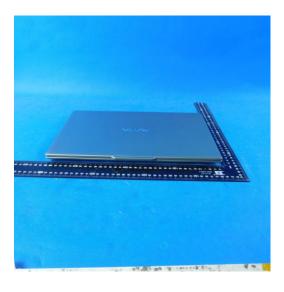


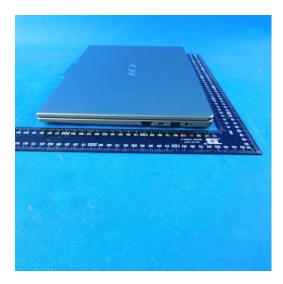


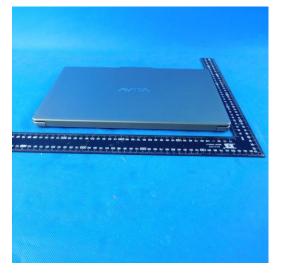


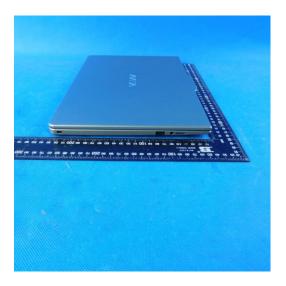
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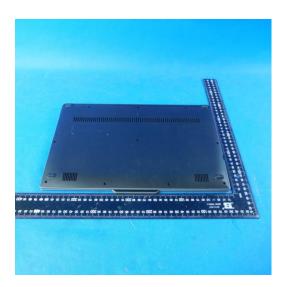








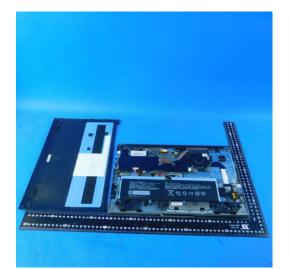




Shenzhen Huatongwei International Inspection Co., Ltd.

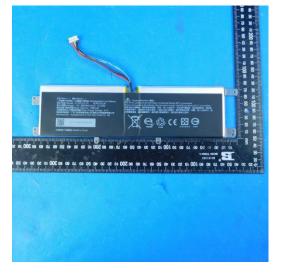
Internal Photos

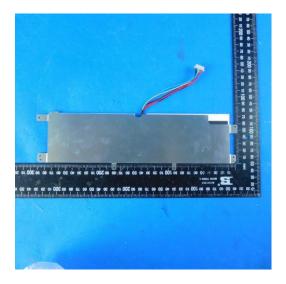






Shenzhen Huatongwei International Inspection Co., Ltd.







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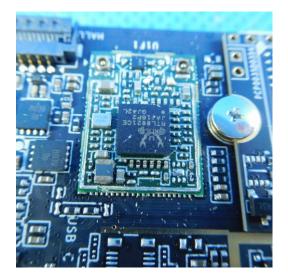




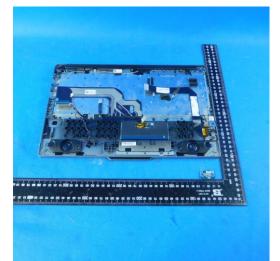


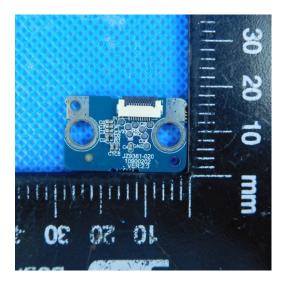
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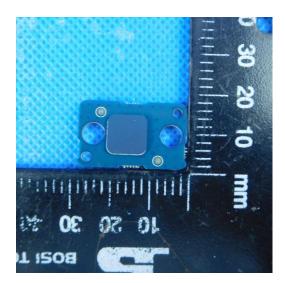














8. APPENDIX REPORT