

Prüfbericht-Nr.: Test report no.:	CN25JRLS 002	Auftrags-Nr.: Order no.:	168581279	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-10-28	
Auftraggeber: Client:	Fujian Newland Payment Technology Co.,Ltd. No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China			
Prüfgegenstand: Test item:	Unattended Terminal			
Bezeichnung / Typ-Nr.: Identification / Type no.:	U200			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247	RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021		
Wareneingangsdatum: Date of sample receipt:	2025-10-31	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	A004122957-005~012 A004122977-005~013			
Prüfzeitraum: Testing period:	2025-11-20 - 2025-11-28			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2026-01-14	Ausstellungsdatum: Issue date:		2026-01-14
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AM6U-NAU200C, IC: 25226-NAU200C, HVIN: U6C_33_01_00_00, U6C_33_03_00_00 PMN: Unattended Terminal This device contains certificated Smart LTE Module with Wi-Fi & Bluetooth (Mode: SC200E-NA, FCC ID: XMR2024SC200ENA, IC: 10224A-024SC200ENA). It's under a new Certification application and the test data for conducted antenna port in this report is cited from the originally granted module, according to KDB 996369 D02 (b). This report is for Bluetooth and 2.4GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION (BT, 2.4GHz Wi-Fi)

RESULT: Pass

5.1.4 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

- Appendix A: Test Results for Bluetooth BDR/EDR
- Appendix B: Test Results for Bluetooth LE and 2.4GHz Wi-Fi
- Appendix C: Photographs of Test Set-up for DTS.
- Appendix D: Photographs of Test Set-up for DSS.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
All emissions, radiated	± 4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is Unattended Terminal which supports LTE, Bluetooth, 2.4GHz Wi-Fi, 5GHz Wi-Fi and NFC functions.

This report is for Bluetooth and 2.4GHz Wi-Fi.

This device contains certificated Smart LTE Module with Wi-Fi & Bluetooth (Mode: SC200E-NA, FCC ID: XMR2024SC200ENA, IC: 10224A-024SC200ENA). It's under a new Certification application and the test data for conducted antenna port in this report is cited from the originally granted module, according to KDB 996369 D02 (b).

The antenna changed to accommodate the module into the product, details as below

Items	Antenna information	Remark
Module (SC200E-NA)	Antenna: (Refer to the module reports) 2400 MHz ~ 2483.5 MHz: 0.47 dBi 5150MHz to 5250MHz: -0.67dBi 5250MHz to 5350MHz: -0.19dBi 5470MHz to 5725MHz: 1.28dBi 5725MHz to 5850MHz: 1.10dBi	1. It verified that, except for the antennas, there is no other change made on the module when it installed into the Unattended Terminal. There are no evident variations on RF conducted signals, the conducted power kept in matching with original module.
(Unattended Terminal)	Antenna: (provided by the client) 2400 MHz ~ 2483.5 MHz: 1.9 dBi 5150MHz to 5250MHz: -0.01dBi 5250MHz to 5350MHz: 0.73dBi 5470MHz to 5725MHz: 2.86dBi 5725MHz to 5850MHz: 2.94dBi	2. Comparing with the module antennas, the maximum gains for all the antennas get higher, the final Maximum EIRP were re-evaluated with the new antenna gain. 3. To guarantee the compliance, the RSE were re-tested, as for other test items, please refer the module reports.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Unattended Terminal
Type Designation:	U200
FCC ID:	2AM6U-NAU200C
IC:	25226-NAU200C
HVIN:	U6C_33_01_00_00, U6C_33_03_00_00 The differences between the two configurations is that the U6C_33_01_00_00 has one more brightness sensor, which has no impact on RF characteristics at all. And this difference was evaluated in EMC test.
PMN:	Unattended Terminal
Operating Voltage:	DC 7-48V
Testing Voltage:	DC 12V via the AC/DC adapter (AC 120V, 60Hz)
Technical Specification of Bluetooth (dual mode)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK

Channel Number:	BR & EDR mode:79 channels, Low Energy mode:40 channels
Channel Separation:	BR & EDR mode:1MHz, Low Energy mode:2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	1.9 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462MHz for 802.11b/g/n(HT20) 2422 - 2452MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)/n(HT40) (All data rates considered, only the Worst-cases reported)
Channel Number:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	1.9 dBi (Provided by the Client)
Technical Specification of 5GHz Wi-Fi	
Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Protocol:	802.11 a/n20/n40/ac20/ac40/ac80
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n MCS0~MCS9 for 802.11ac (All data rates considered, only the Worst-cases reported)
Channel Separation:	20MHz, 40MHz, 80MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	5150MHz to 5250MHz: -0.01dBi 5250MHz to 5350MHz: 0.73dBi 5470MHz to 5725MHz: 2.86dBi 5725MHz to 5850MHz: 2.94dBi (Provided by the Client)
Technical Specification of NFC	
Operating Frequency:	13.56MHz
Antenna Type:	Integral Antenna

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Test Summary		
Items	Remark	Verdict
Antenna Requirement	Refer to section 5.1.1 of this report	Pass
Maximum Peak Conducted Output Power	Refer to the original module reports PD20240152-R3B(FCC), PD20240152-R4B(ISED) PD20240152-R3C(FCC), PD20240152-R4C(ISED) PD20240152-R3D(FCC), PD20240152-R4D(ISED)	Pass
99% Bandwidth		
Conducted Spurious Emissions Measured in 100 kHz Bandwidth		
Conducted Power Spectral Density	Refer to the original module reports PD20240152-R3C(FCC), PD20240152-R4C(ISED) PD20240152-R3D(FCC), PD20240152-R4D(ISED)	Pass
6dB Bandwidth	Refer to the original module reports PD20240152-R3C(FCC), PD20240152-R4C(ISED) PD20240152-R3D(FCC), PD20240152-R4D(ISED)	Pass
20dB Bandwidth	Refer to the original module reports PD20240152-R3B(FCC), PD20240152-R4B(ISED)	Pass
Carrier Frequency Separation		Pass
Number of Hopping Frequency		Pass
Time of Occupancy		Pass
Radiated Spurious Emission	Refer to section 5.1.2 of this report	Pass
AC Conducted Emission	Refer to section 5.1.3 of this report	Pass

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Bluetooth transmitting mode (BR & EDR mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- FCC/IC Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10:2020+ Cor. 1:2023+ C63.10a:2024.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
SWITCHING ADAPTER	SHENZHEN HONOR ELECTRONIC CO., LTD.	ADS-25SGP-12 12024E	INPUT:100-240V-50/60Hz OUTPUT:12.0V2.0A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

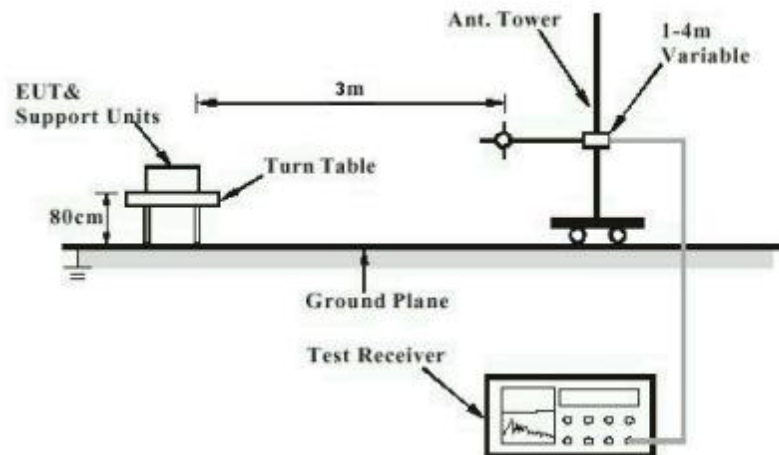


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

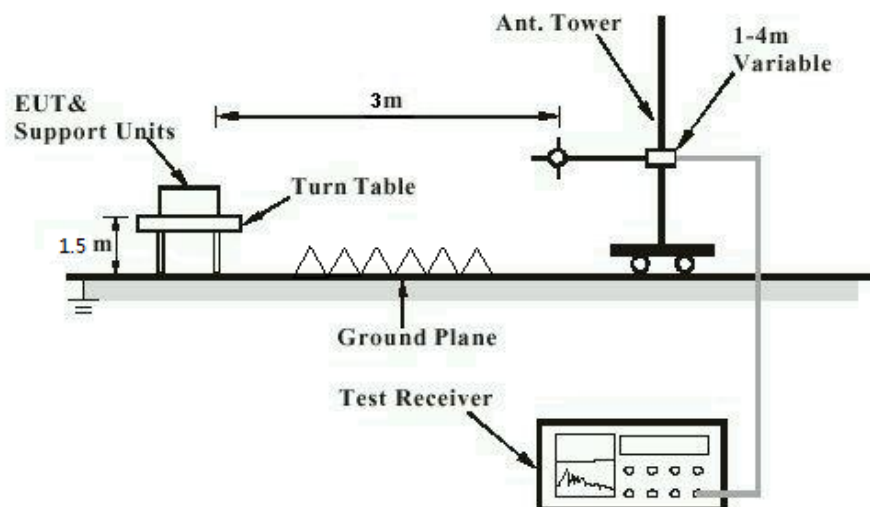


Diagram of Measurement Configuration for Conducted Transmitter Measurement

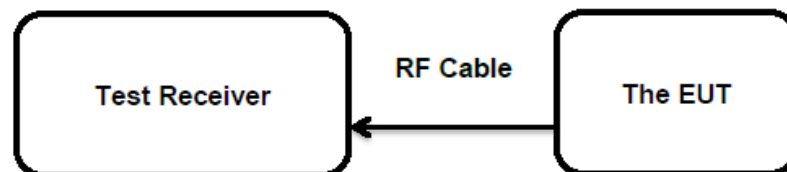
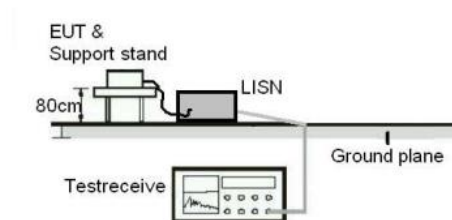


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

The EUT has an integral antenna with a unique connector, which is designed with permanent attachment and no consideration of replacement. Refer to section 3.2 for details

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	: FCC Part 15.247(b)(3)
	: RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-11-20 to 2025-11-28
Operation mode	: A, B, C
Test channel	: Low / Middle / High
Ambient temperature	: 24.6 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

It verifies that there is no evident variation in conducted power compared with the original data listed in original module report. All conducted power data in the table below is cited from original module reports and evaluated with the new antenna gain.

Table 5: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
GFSK (BR)	2402.0	9.36	0.0086	< 1.0
	2441.0	9.55	0.0090	
	2480.0	8.62	0.0073	
Pi/4-QPSK (EDR)	2402.0	4.94	0.0031	
	2441.0	4.95	0.0031	
	2480.0	4.31	0.0027	
8DPSK (EDR)	2402.0	5.17	0.0033	
	2441.0	5.19	0.0033	
	2480.0	4.56	0.0029	
Note: The Maximum EIRP=9.55+1.9=11.45dBm, far less than 36dBm (4W). The Antenna Gain is 1.9dBi Max				

Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	0.50	0.0011	< 1.0
	2440	0.58	0.0011	
	2480	-0.03	0.0010	
Note: The Maximum EIRP=0.58+1.9=2.48dBm, far less than 36dBm (4W). The Antenna Gain is 1.9dBi Max				

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Table 7: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured average Power		Limit (dBm)
			(dBm)	(W)	
802.11b	1 Mbps	2412	18.04	0.0637	30
		2437	17.88	0.0614	
		2462	18.09	0.0644	
802.11g	6 Mbps	2412	17.30	0.0537	
		2437	17.47	0.0558	
		2462	17.60	0.0575	
802.11n (HT20)	MCS0	2412	17.30	0.0537	
		2437	17.08	0.0511	
		2462	17.24	0.0530	
802.11n (HT40)	MCS0	2422	17.20	0.0525	
		2437	17.49	0.0561	
		2452	15.38	0.0345	

Note: The Maximum EIRP=18.09+1.9=19.99dBm, far less than 36dBm (4W).
The Antenna Gain is 1.9dBi Max

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5.1.3 Radiated Spurious Emission (BT, 2.4GHz Wi-Fi)

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 6.6

Basic standard : ANSI C63.10

Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Section 8.9 & 8.10

Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-11-20 to 2025-11-28

Input voltage : DC 12V via the adapter

Operation mode : A, B, C

Test channel : Low / Middle / High

Ambient temperature : Refer to test result

Relative humidity : Refer to test result

Atmospheric pressure : 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendixes A and B.

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5.1.4 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-10-30
Input voltage	: AC 120V, 60Hz (Via the AC/DC Adapter)
Operation mode	: A, B
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendixes A and B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C, D.

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Appendix A: Test Results

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Appendix A.1: Test Results of Radiated Spurious Emissions, Bluetooth BR & EDR

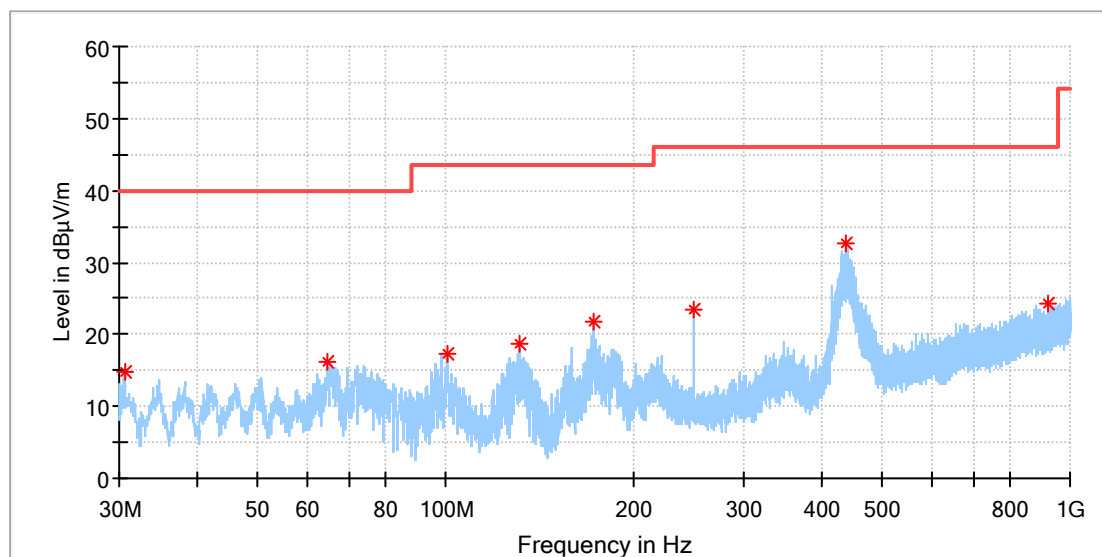
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
- 3) The highest waveform in the figure is Bluetooth Fundamental.

30 MHz - 1GHz

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

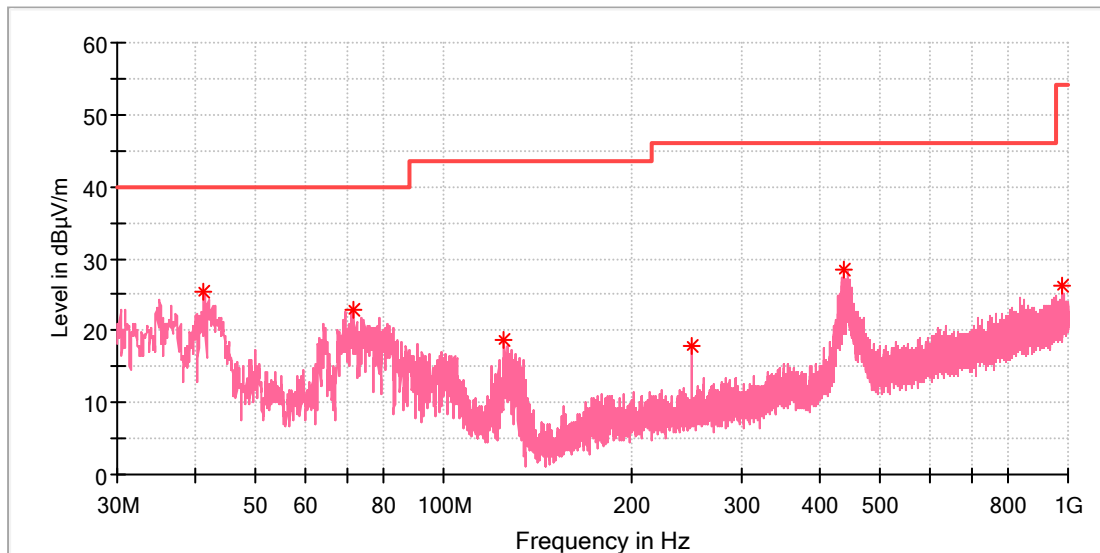
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.559615	14.66	40.00	25.34	100.0	H	175.0	-22.9
64.808077	16.16	40.00	23.84	100.0	H	279.0	-20.2
100.399615	17.17	43.50	26.33	100.0	H	175.0	-19.1
131.253077	18.61	43.50	24.89	100.0	H	241.0	-22.0
173.000385	21.78	43.50	21.72	100.0	H	272.0	-21.1
250.003462	23.37	46.00	22.63	100.0	H	167.0	-17.4
437.586539	32.62	46.00	13.38	100.0	H	52.0	-13.0
920.945000	24.14	46.00	21.86	100.0	H	151.0	-4.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

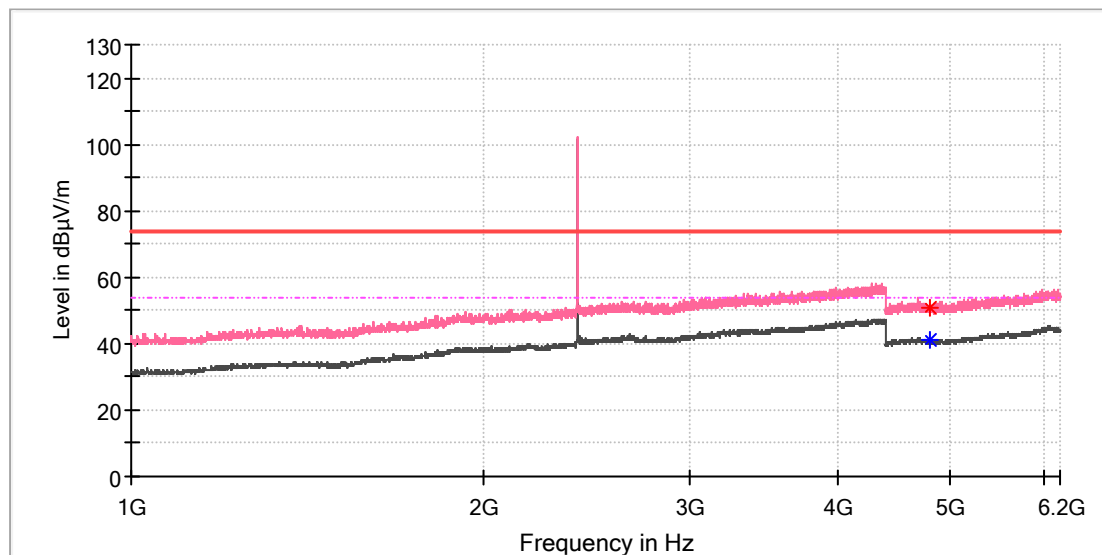
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.341539	25.29	40.00	14.71	100.0	V	9.0	-19.8
71.859231	22.92	40.00	17.08	100.0	V	214.0	-22.5
125.097308	18.60	43.50	24.90	100.0	V	198.0	-21.4
250.003462	17.98	46.00	28.02	100.0	V	222.0	-17.4
437.101539	28.51	46.00	17.49	100.0	V	129.0	-13.0
979.704615	26.11	54.00	27.89	100.0	V	306.0	-3.8

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

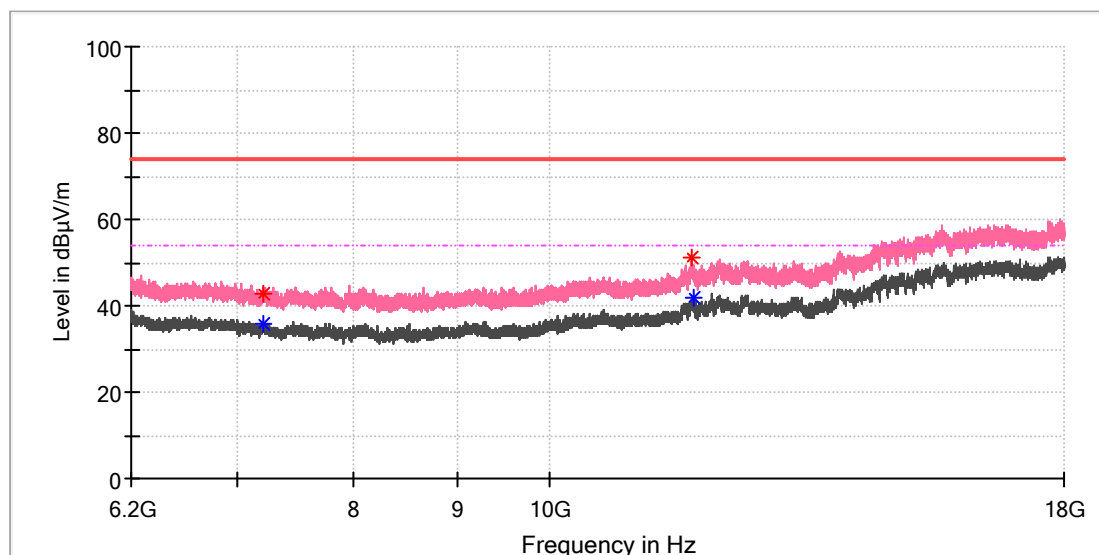
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.500000	---	41.16	54.00	12.84	150.0	V	237.0	13.3
4803.000000	51.09	---	74.00	22.91	150.0	V	328.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

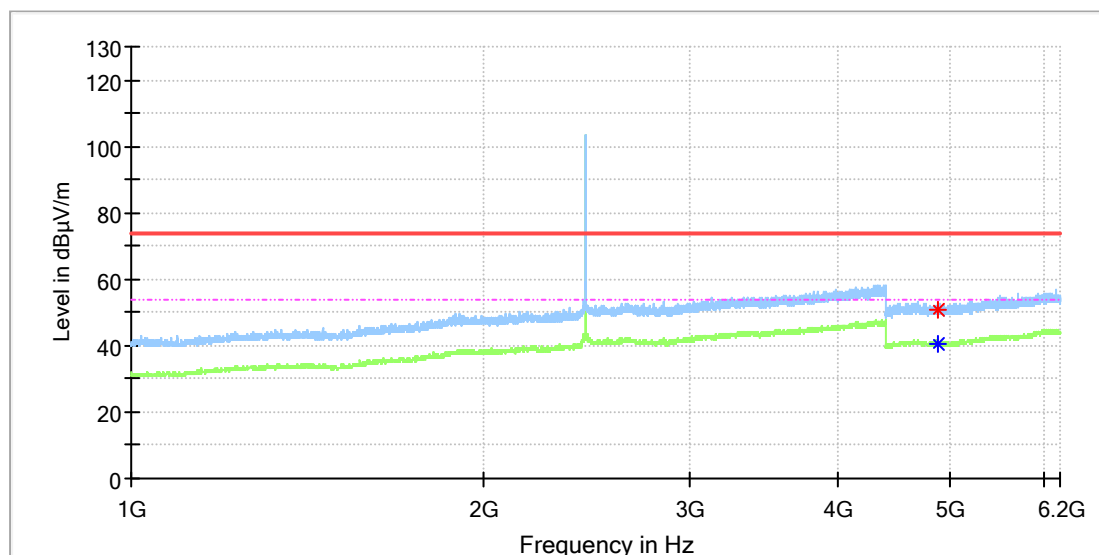
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	35.84	54.00	18.16	150.0	V	22.0	8.8
7206.441667	42.81	---	74.00	31.19	150.0	V	268.0	8.8
11759.766667	50.98	---	74.00	23.02	150.0	V	33.0	15.4
11793.200000	---	41.76	54.00	12.24	150.0	V	146.0	14.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

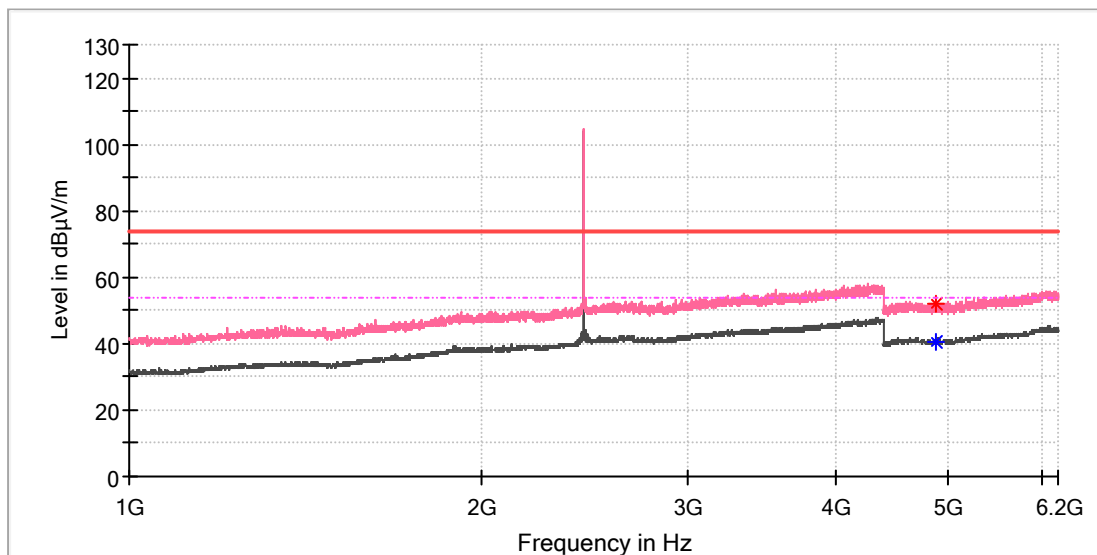
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	50.77	---	74.00	23.23	150.0	H	73.0	13.3
4882.000000	---	40.64	54.00	13.36	150.0	H	56.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

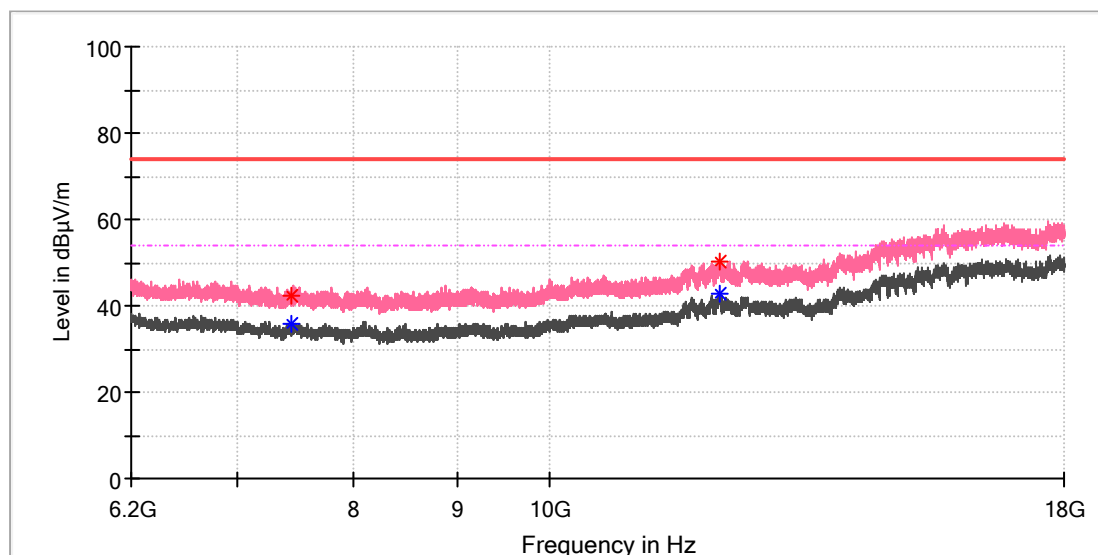
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.500000	---	40.28	54.00	13.72	150.0	V	222.0	13.3
4881.500000	52.28	---	74.00	21.72	150.0	V	222.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_High
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7441.458333	42.55	---	74.00	31.45	150.0	V	53.0	8.4
7441.950000	---	35.70	54.00	18.30	150.0	V	0.0	8.4
12142.283333	50.37	---	74.00	23.63	150.0	V	159.0	16.5
12151.625000	---	42.71	54.00	11.29	150.0	V	102.0	16.6

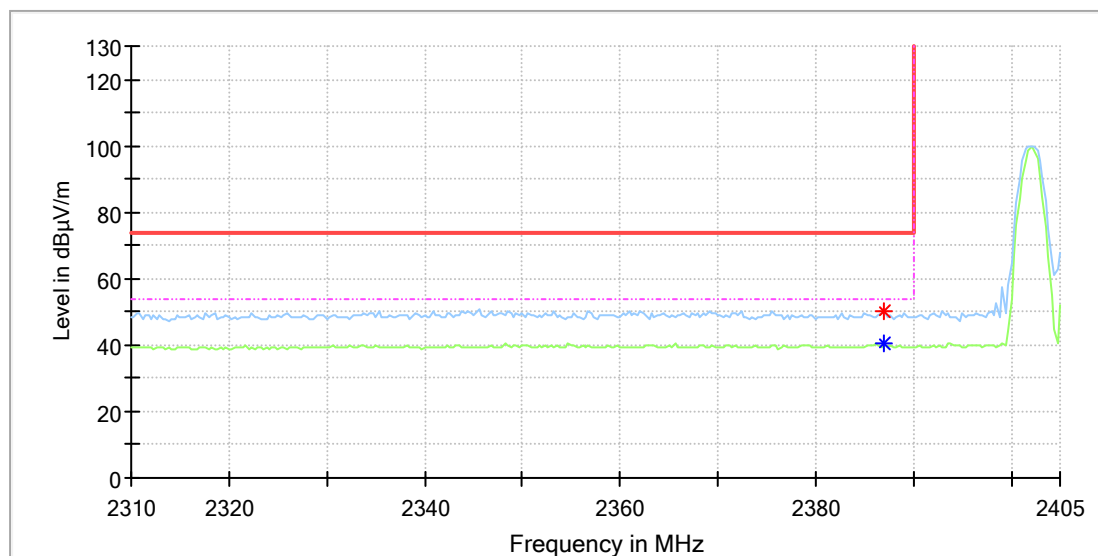
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.2: Test Results of Radiated Emissions in Restricted Bands, Bluetooth BR & EDR

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BR_DH5_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.058824	50.23	---	74.00	23.77	150.0	H	315.0	8.5
2387.058824	---	40.68	54.00	13.32	150.0	H	315.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	-----

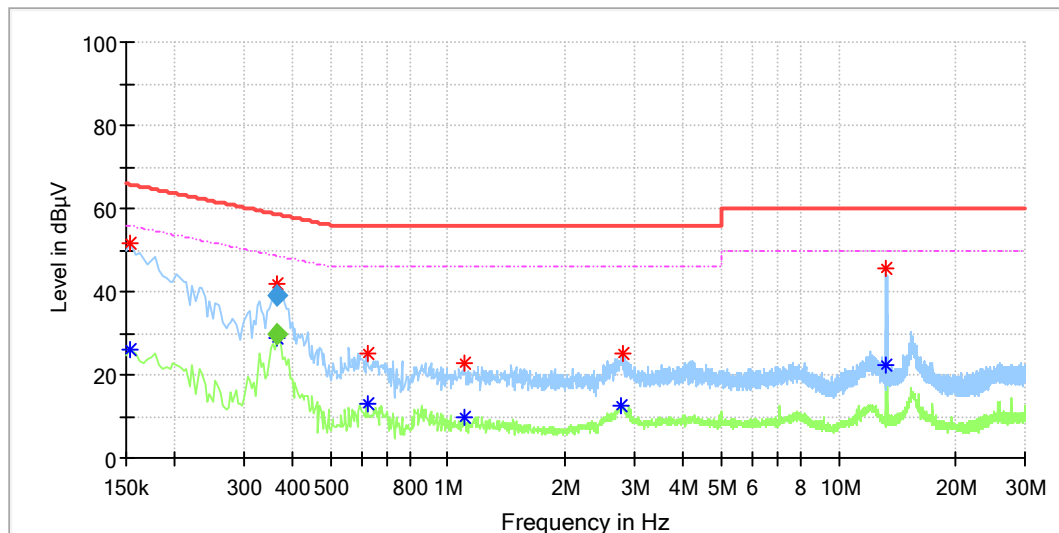
EUT Information

EUT Information

Appendix A.3: Test Results of AC Conducted emissions

EUT Information

EUT Name: Unattended Terminal
Order Number: 168581279(P02162052)
Model: U200
Test Mode: Normal working with Wi-Fi & Bluetooth & LTE connecting+ NFC in active
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical_Freqs

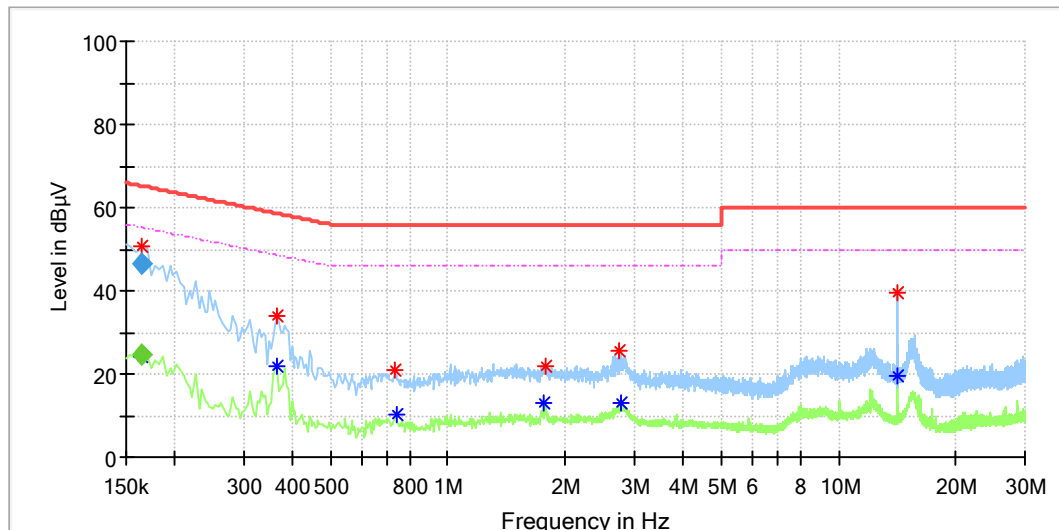
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	---	25.89	55.78	29.89	L1	10.24
0.15	51.45	---	65.78	14.34	L1	10.24
0.36	41.84	---	58.50	16.66	L1	10.25
0.36	---	28.90	48.50	19.60	L1	10.25
0.62	---	13.00	46.00	33.00	L1	10.27
0.62	24.95	---	56.00	31.05	L1	10.27
1.10	---	9.71	46.00	36.29	L1	10.28
1.10	22.87	---	56.00	33.13	L1	10.28
2.78	---	12.56	46.00	33.44	L1	10.33
2.79	25.20	---	56.00	30.80	L1	10.33
13.25	---	22.12	50.00	27.88	L1	10.73
13.25	45.80	---	60.00	14.20	L1	10.73

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.36	---	29.90	48.63	18.72	1000.00	9.00	L1	10.25
0.36	39.00	---	58.63	19.62	1000.00	9.00	L1	10.25

EUT Information

EUT Name: Unattended Terminal
Order Number: 168581279(P02162052)
Model: U200
Test Mode: Normal working with Wi-Fi & Bluetooth & LTE connecting+ NFC in active
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.16	---	24.26	54.96	30.70	N	10.25
0.16	50.54	---	65.16	14.62	N	10.25
0.37	---	22.02	48.59	26.57	N	10.26
0.37	33.74	---	58.59	24.85	N	10.26
0.73	20.73	---	56.00	35.27	N	10.29
0.74	---	10.01	46.00	35.99	N	10.29
1.76	---	12.91	46.00	33.09	N	10.31
1.77	22.06	---	56.00	33.94	N	10.31
2.75	25.42	---	56.00	30.58	N	10.33
2.77	---	12.85	46.00	33.15	N	10.33
14.19	---	19.64	50.00	30.36	N	10.72
14.19	39.47	---	60.00	20.53	N	10.72

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.16	---	24.44	55.23	30.79	1000.00	9.00	N	10.25
0.16	46.71	---	65.23	18.52	1000.00	9.00	N	10.25

Appendix B: Test Results

APPENDIX B: TEST RESULTS	1
APPENDIX A.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, BLUETOOTH LE	2
30 MHz - 1GHz.....	2
1GHz - 18GHz	4
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APPENDIX A.3: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS, 2.4GHz Wi-Fi	20
30 MHz - 1GHz.....	20
1GHz - 18GHz	22
APPENDIX A.4: TEST RESULTS OF AC CONDUCTED EMISSIONS	34

Appendix B.1: Test Results of Radiated Spurious Emissions, Bluetooth LE

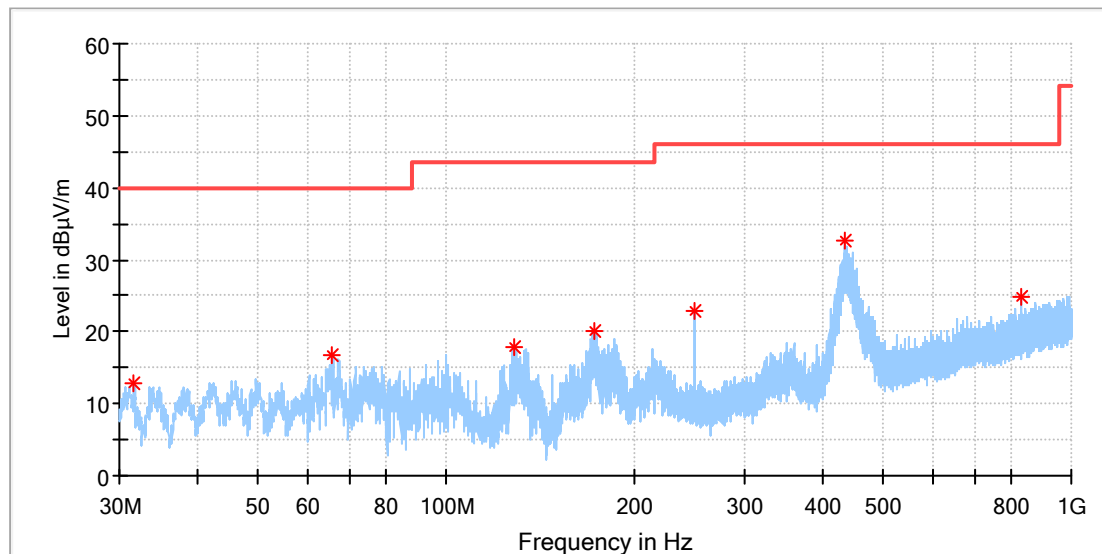
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
- 3) The highest waveform in the figure is Bluetooth Fundamental.

30 MHz - 1GHz

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

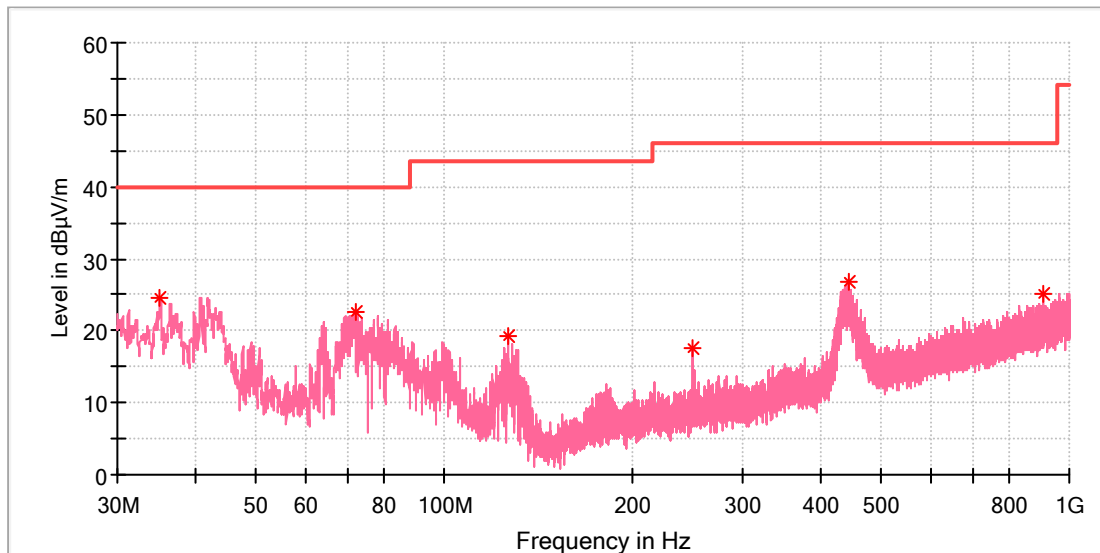
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.641539	12.77	40.00	27.23	100.0	H	216.0	-22.8
65.815385	16.77	40.00	23.23	100.0	H	258.0	-20.5
128.119231	17.75	43.50	25.75	100.0	H	223.0	-21.7
171.955769	20.03	43.50	23.47	100.0	H	120.0	-21.2
250.003462	23.02	46.00	22.98	100.0	H	183.0	-17.4
432.923077	32.54	46.00	13.46	100.0	H	232.0	-13.1
832.637692	24.84	46.00	21.16	100.0	H	41.0	-5.6

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.111154	24.54	40.00	15.46	100.0	V	168.0	-21.9
72.120385	22.58	40.00	17.42	100.0	V	150.0	-22.6
126.515000	19.23	43.50	24.27	100.0	V	195.0	-21.6
250.003462	17.67	46.00	28.33	100.0	V	229.0	-17.4
442.511154	26.76	46.00	19.24	100.0	V	123.0	-12.9
905.387692	25.00	46.00	21.00	100.0	V	296.0	-4.7

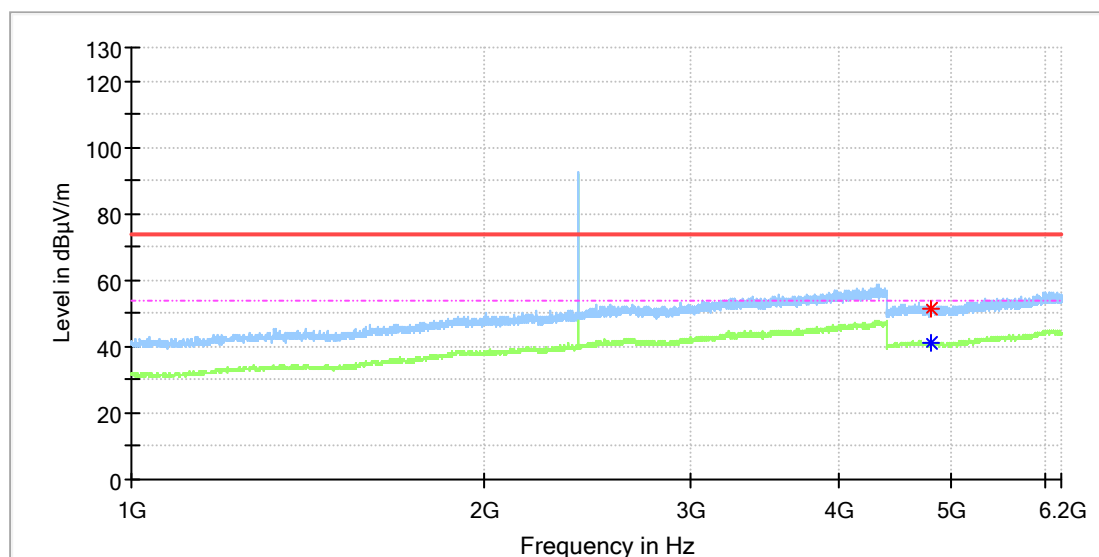
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

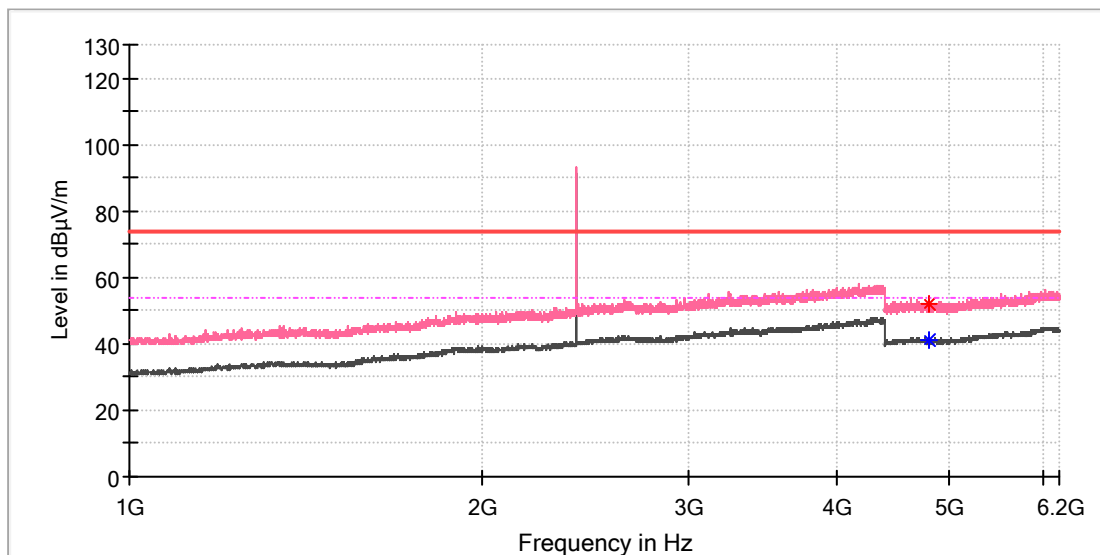
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4801.500000	---	41.39	54.00	12.61	150.0	H	274.0	13.3
4804.500000	51.55	---	74.00	22.45	150.0	H	93.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

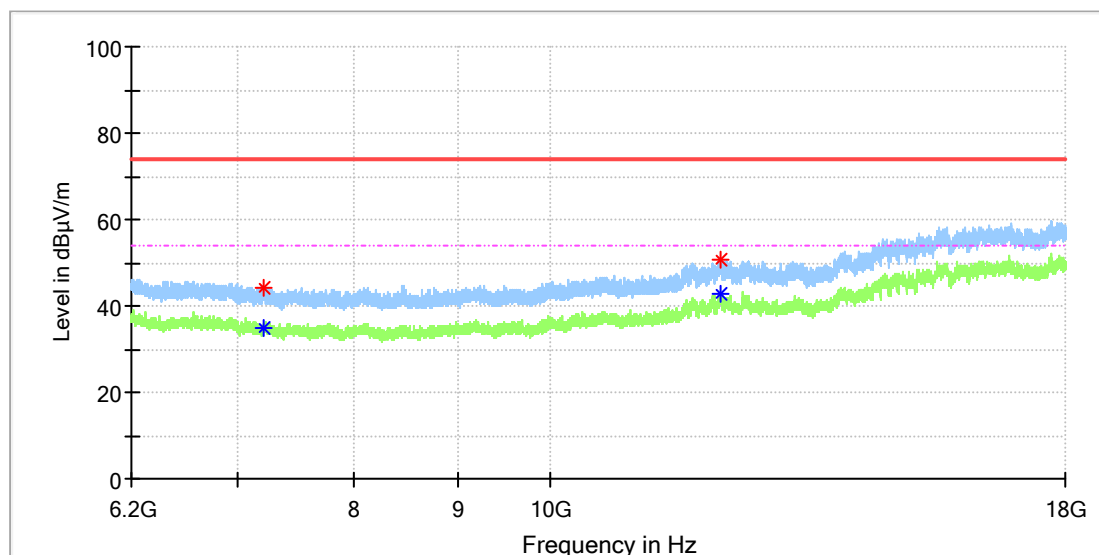
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	52.21	---	74.00	21.79	150.0	V	174.0	13.3
4804.500000	---	41.21	54.00	12.79	150.0	V	228.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Low
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

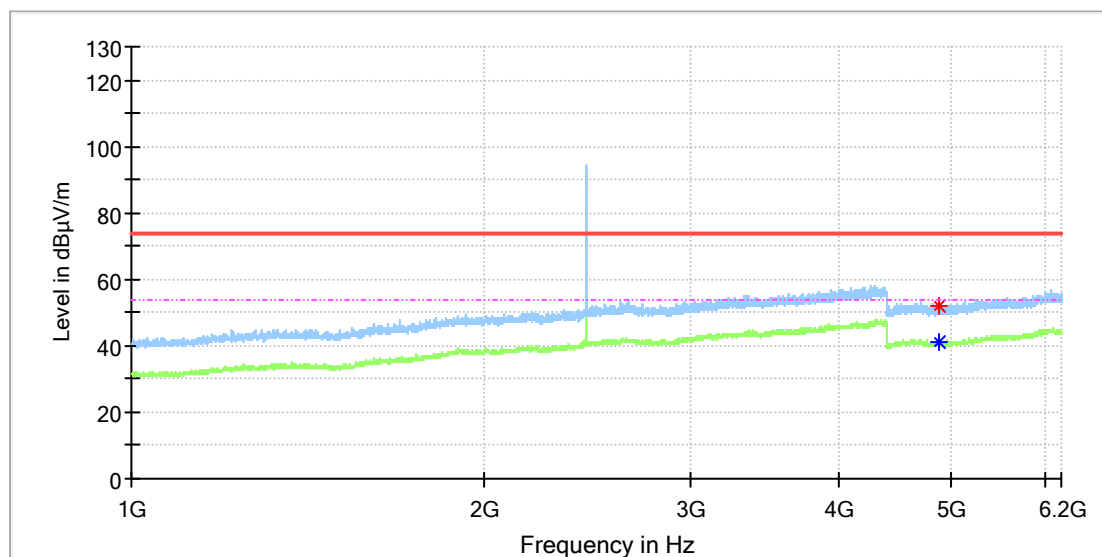
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	35.08	54.00	18.92	150.0	H	7.0	8.8
7205.458333	44.03	---	74.00	29.97	150.0	H	7.0	8.8
12144.250000	50.85	---	74.00	23.15	150.0	H	207.0	16.6
12145.725000	---	42.76	54.00	11.24	150.0	H	54.0	16.6

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

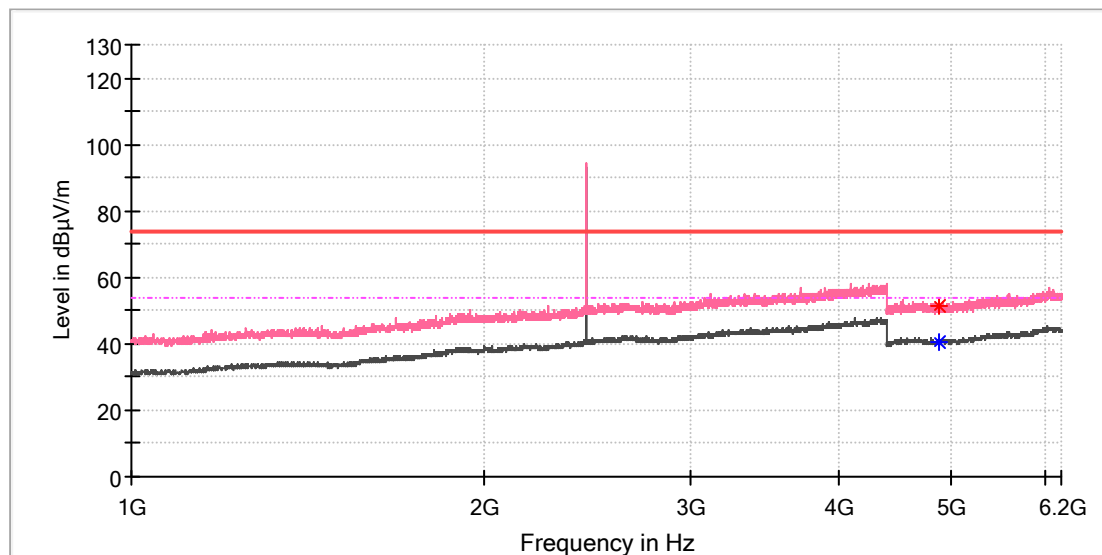
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4877.000000	51.94	---	74.00	22.06	150.0	H	246.0	13.3
4881.500000	---	40.87	54.00	13.13	150.0	H	265.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_Mid
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	51.69	---	74.00	22.31	150.0	V	288.0	13.3
4881.000000	---	40.36	54.00	13.64	150.0	V	190.0	13.3

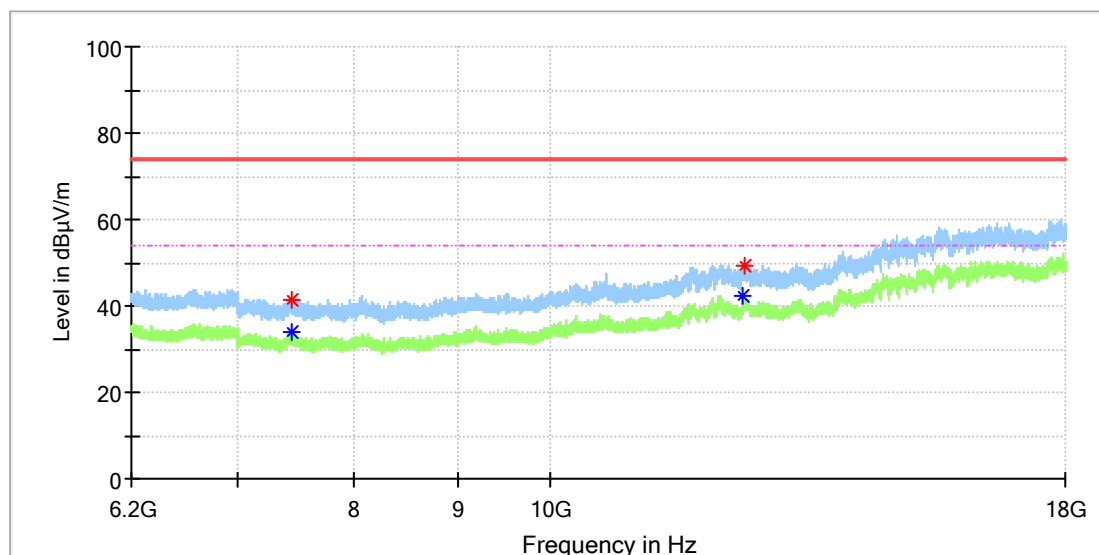
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
----	----	----	----	----	----		----	

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_High
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

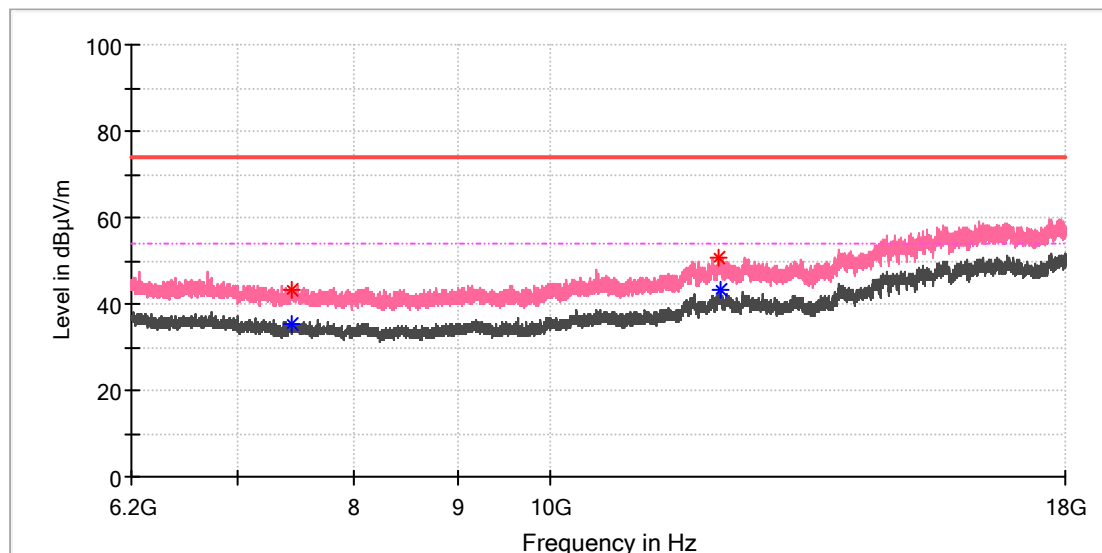
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7442.441667	---	33.87	54.00	20.13	150.0	H	80.0	8.4
7452.766667	41.37	---	74.00	32.63	150.0	H	13.0	8.5
12461.375000	---	42.26	54.00	11.74	150.0	H	113.0	16.2
12495.791667	49.20	---	74.00	24.80	150.0	H	113.0	16.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	BLE_1M_High
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7447.850000	---	35.49	54.00	18.51	150.0	V	267.0	8.5
7448.833333	43.04	---	74.00	30.96	150.0	V	179.0	8.5
12117.208333	50.65	---	74.00	23.35	150.0	V	189.0	15.9
12154.575000	---	43.05	54.00	10.95	150.0	V	211.0	16.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix B.3: Test Results of Radiated Spurious Emissions, 2.4GHz Wi-Fi

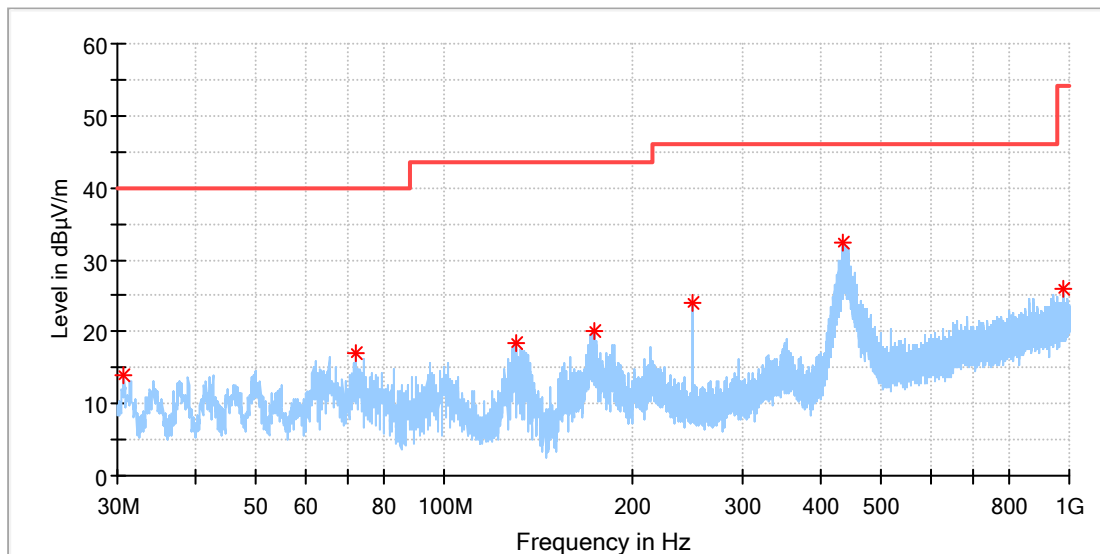
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.
- 3) The highest waveform in the figure is 2.4GHz Wi-Fi Fundamental.

30 MHz - 1GHz

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

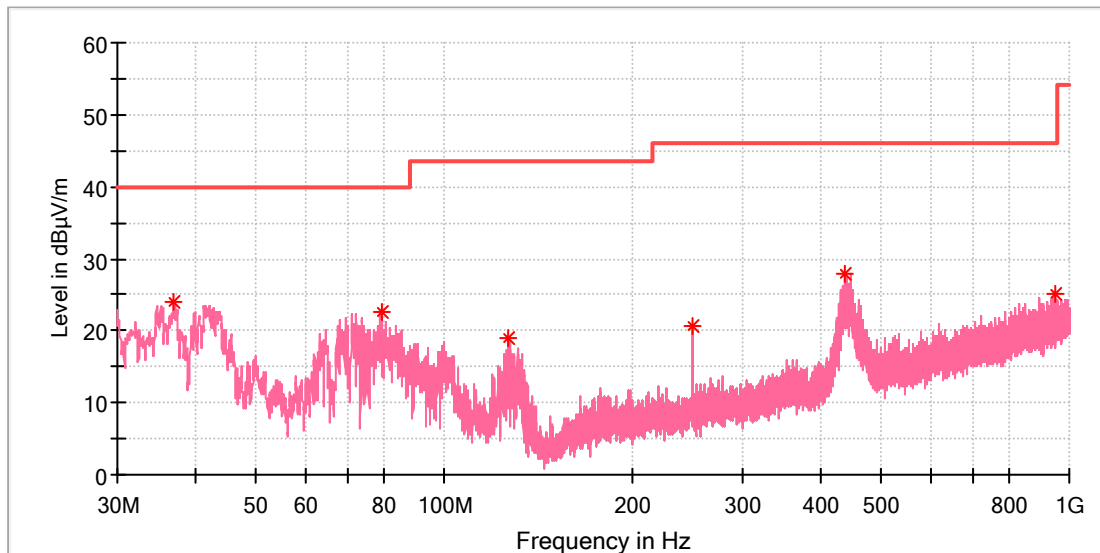
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.783462	13.91	40.00	26.09	100.0	H	256.0	-22.9
72.120385	17.15	40.00	22.85	100.0	H	305.0	-22.6
130.805385	18.50	43.50	25.00	100.0	H	256.0	-22.0
173.410769	20.21	43.50	23.29	100.0	H	265.0	-21.1
250.003462	24.00	46.00	22.00	100.0	H	188.0	-17.4
435.683846	32.24	46.00	13.76	100.0	H	289.0	-13.0
978.510769	25.92	54.00	28.08	100.0	H	99.0	-3.9

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.976539	23.88	40.00	16.12	100.0	V	180.0	-21.2
79.283462	22.68	40.00	17.32	100.0	V	218.0	-23.6
126.477692	18.92	43.50	24.58	100.0	V	202.0	-21.6
250.003462	20.63	46.00	25.37	100.0	V	218.0	-17.4
437.138846	27.90	46.00	18.10	100.0	V	119.0	-13.0
952.134231	25.25	46.00	20.75	100.0	V	14.0	-4.2

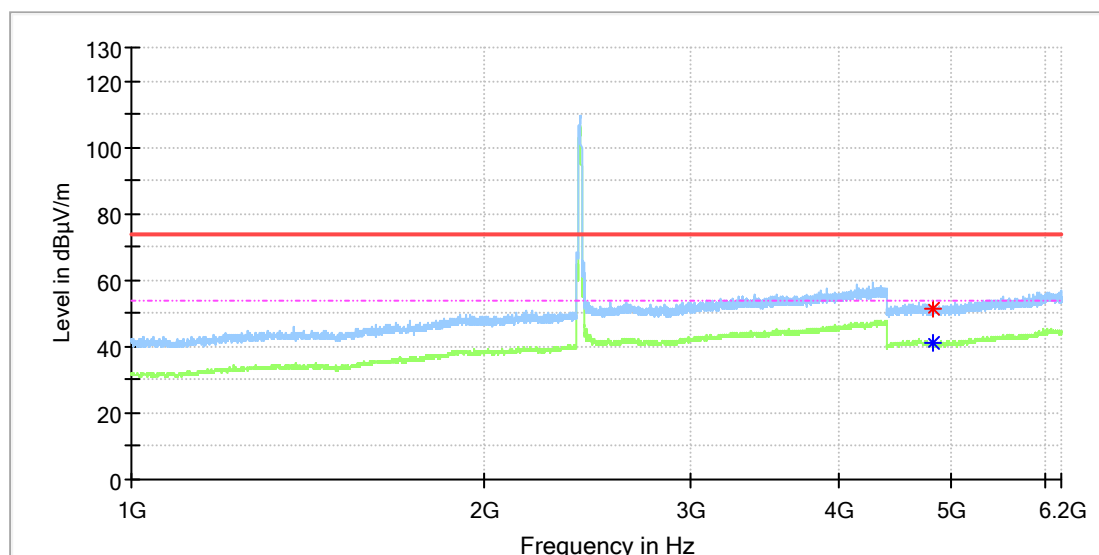
Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

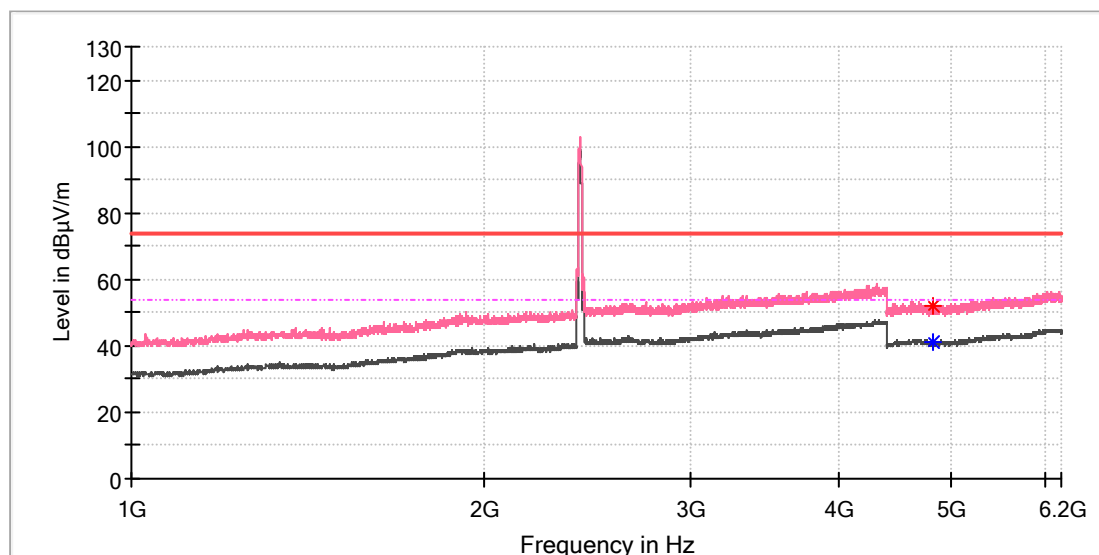
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	---	41.12	54.00	12.88	150.0	H	0.0	13.3
4824.500000	51.40	---	74.00	22.60	150.0	H	48.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

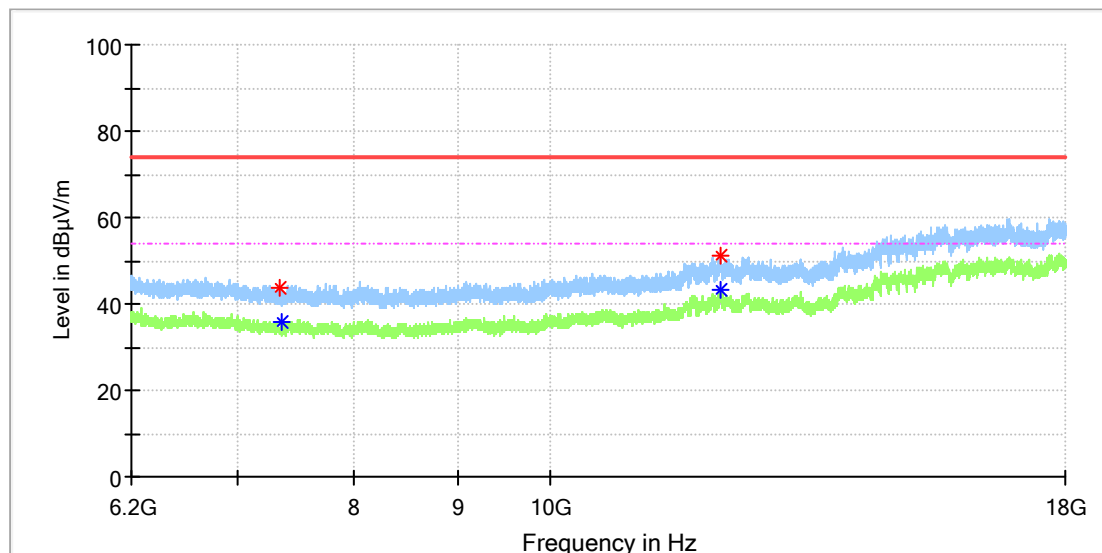
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4826.500000	---	41.25	54.00	12.75	150.0	V	205.0	13.3
4827.000000	51.81	---	74.00	22.19	150.0	V	304.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7339.191667	43.72	---	74.00	30.28	150.0	H	127.0	8.1
7355.416667	---	35.63	54.00	18.37	150.0	H	39.0	8.1
12146.216667	51.09	---	74.00	22.91	150.0	H	218.0	16.6
12159.000000	---	43.30	54.00	10.70	150.0	H	73.0	16.3

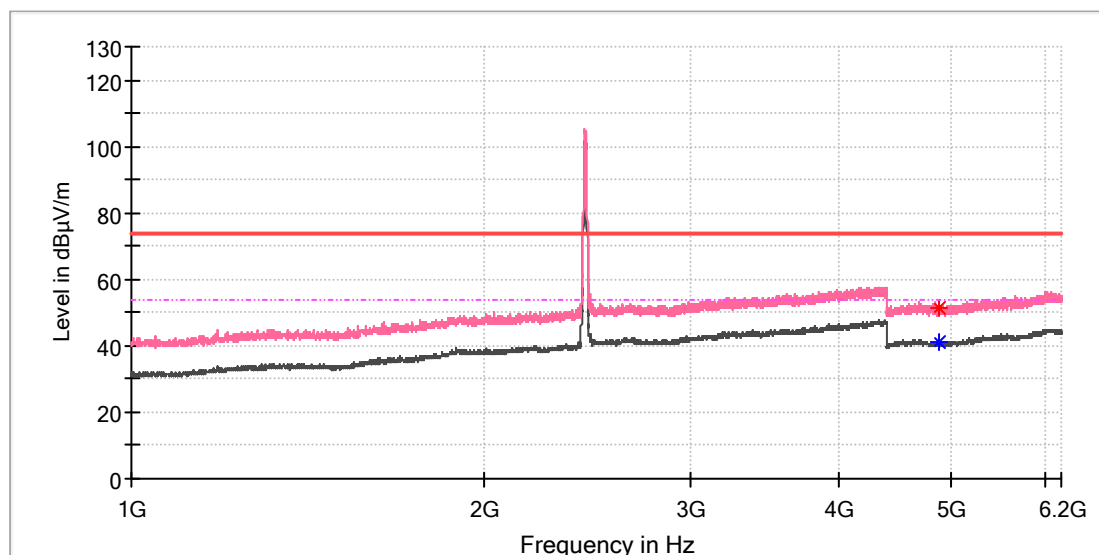
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

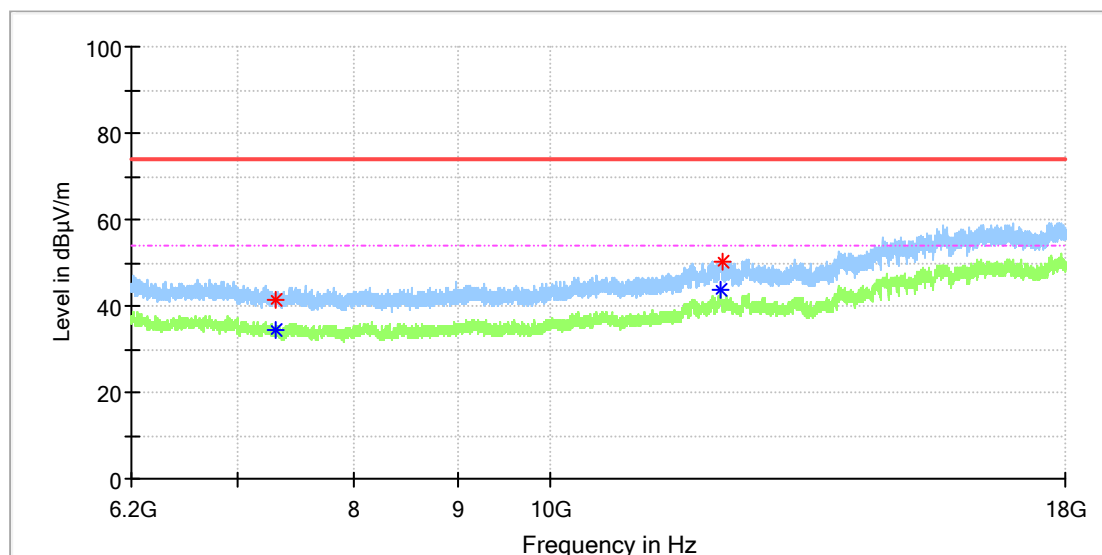
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	51.63	---	74.00	22.37	150.0	V	208.0	13.3
4872.000000	---	40.93	54.00	13.07	150.0	V	159.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

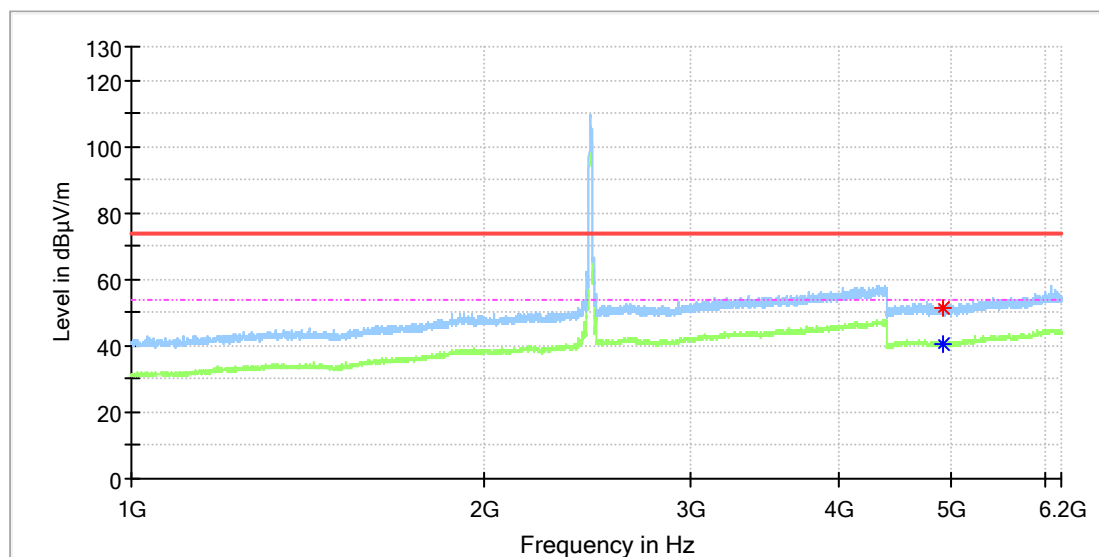
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
7310.183333	---	34.57	54.00	19.43	150.0	H	219.0	8.2
7310.675000	41.60	---	74.00	32.40	150.0	H	133.0	8.2
12148.675000	---	43.58	54.00	10.42	150.0	H	75.0	16.7
12166.375000	50.27	---	74.00	23.73	150.0	H	146.0	15.9

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

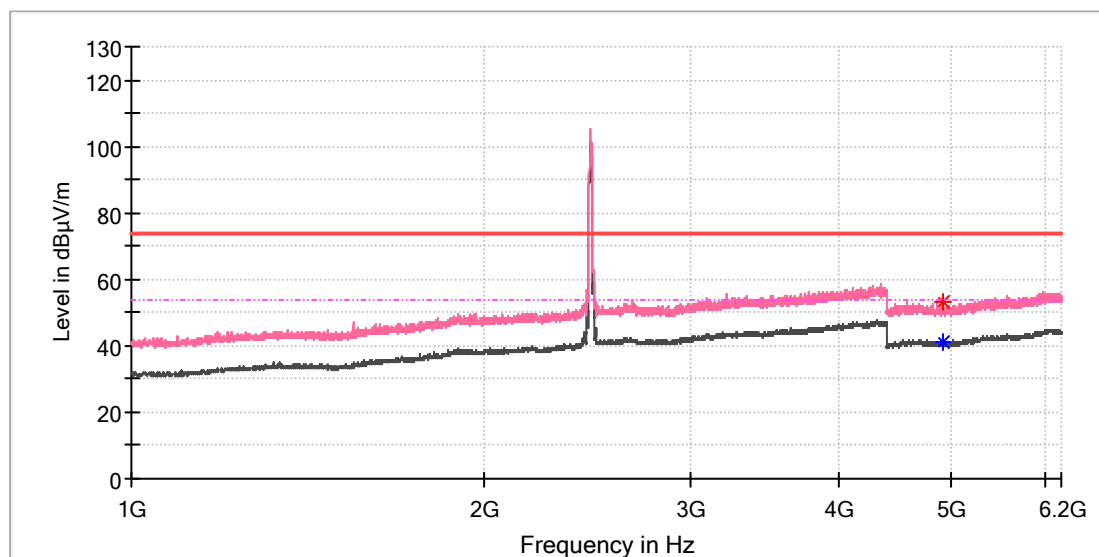
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4924.000000	---	40.61	54.00	13.39	150.0	H	316.0	13.3
4925.500000	51.39	---	74.00	22.61	150.0	H	232.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Unattended Terminal
Model:	U200
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168581279/A004122977-005
Test Voltage:	120V/60Hz
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4918.500000	53.04	---	74.00	20.96	150.0	V	297.0	13.3
4924.000000	---	41.41	54.00	12.59	150.0	V	245.0	13.3

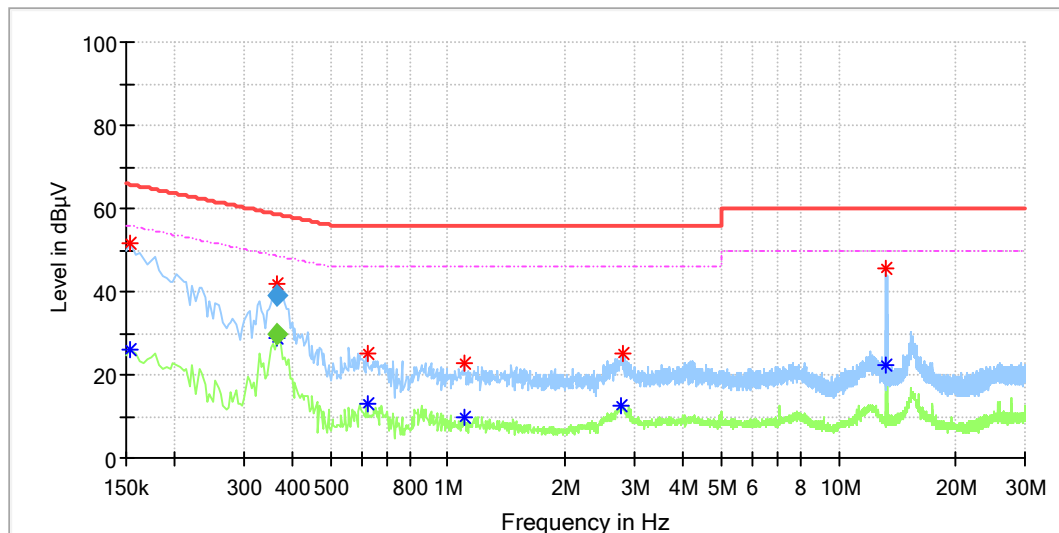
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix B.4: Test Results of AC Conducted emissions

EUT Information

EUT Name: Unattended Terminal
Order Number: 168581279(P02162052)
Model: U200
Test Mode: Normal working with Wi-Fi & Bluetooth & LTE connecting+ NFC in active
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical_Freqs

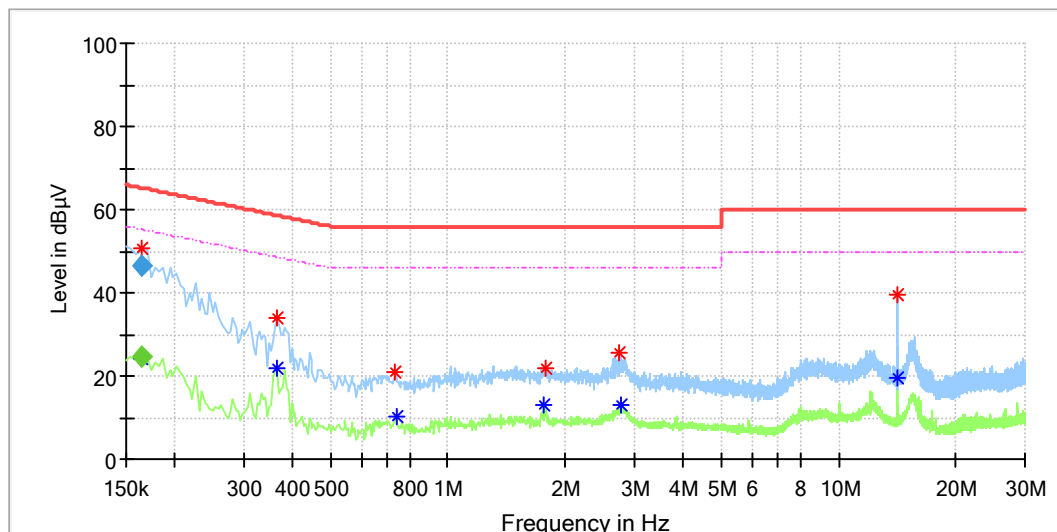
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	---	25.89	55.78	29.89	L1	10.24
0.15	51.45	---	65.78	14.34	L1	10.24
0.36	41.84	---	58.50	16.66	L1	10.25
0.36	---	28.90	48.50	19.60	L1	10.25
0.62	---	13.00	46.00	33.00	L1	10.27
0.62	24.95	---	56.00	31.05	L1	10.27
1.10	---	9.71	46.00	36.29	L1	10.28
1.10	22.87	---	56.00	33.13	L1	10.28
2.78	---	12.56	46.00	33.44	L1	10.33
2.79	25.20	---	56.00	30.80	L1	10.33
13.25	---	22.12	50.00	27.88	L1	10.73
13.25	45.80	---	60.00	14.20	L1	10.73

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.36	---	29.90	48.63	18.72	1000.00	9.00	L1	10.25
0.36	39.00	---	58.63	19.62	1000.00	9.00	L1	10.25

EUT Information

EUT Name: Unattended Terminal
Order Number: 168581279(P02162052)
Model: U200
Test Mode: Normal working with Wi-Fi & Bluetooth & LTE connecting+ NFC in active
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Junhua Sun/ Murphy Chen
Tem./Hum./Pressure: 24.3°C/51.0%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.16	---	24.26	54.96	30.70	N	10.25
0.16	50.54	---	65.16	14.62	N	10.25
0.37	---	22.02	48.59	26.57	N	10.26
0.37	33.74	---	58.59	24.85	N	10.26
0.73	20.73	---	56.00	35.27	N	10.29
0.74	---	10.01	46.00	35.99	N	10.29
1.76	---	12.91	46.00	33.09	N	10.31
1.77	22.06	---	56.00	33.94	N	10.31
2.75	25.42	---	56.00	30.58	N	10.33
2.77	---	12.85	46.00	33.15	N	10.33
14.19	---	19.64	50.00	30.36	N	10.72
14.19	39.47	---	60.00	20.53	N	10.72

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.16	---	24.44	55.23	30.79	1000.00	9.00	N	10.25
0.16	46.71	---	65.23	18.52	1000.00	9.00	N	10.25