

## RADIO TEST REPORT

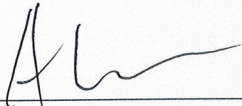
The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant/Manufacturer : Chenghai Udirc Toys Co., Ltd  
Address : Dengfeng Industrial Zone, Chenghai District, Shantou, Guangdong, China  
Factory : Chenghai Udirc Toys Co., Ltd  
Address : Dengfeng Industrial Zone, Chenghai District, Shantou, Guangdong, China  
E.U.T. : U47 (Transmitter)  
Brand Name : N/A  
Model No. : UA22 (For additional models refer to section 1)  
FCC ID : ZKWUA221803001  
Measurement Standard : FCC PART 15.249: 2017  
Date of Receiver : March 28, 2018  
Date of Test : March 29, 2018 to April 17, 2018  
Date of Report : April 17, 2018

This Test Report is Issued Under the Authority of :

Prepared by

Approved & Authorized Signer

  
Alina Guo / Engineer

  
Lori Fan / Authorized Signatory

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test

Product Name	: U47 (Transmitter)
Model Name	: See following pages of model list.
Model Difference Description	: These models have the same circuitry, PCB layout, electrical mechanical and physical construction. Their differences in model number for trading purpose.
Power Supply	: 4*1.5V AA battery
Test Voltage	: 4*1.5V AA battery
Note	: All tests were carried on model UA22.

#### Technical Specification:

##### 2.4G Function:

Frequency Range	: 2446~2461MHz
Modulation Type	: GFSK
Number of Channel	: 4
Channel Space	: 5MHz
Antenna Type	: Integral Antenna
Antenna Gain	: 0dBi (Declaration by manufacturer)
Hardware version	: UD-UA22T
Software version	: 2.0

Model list:

U29, U29W, U29S, U29S-E, U29Plus, U29D, U29Plus-G, UA22
U30, U31, U31W, U31R, U31D, U32, U33, U34, U34W, U35, U36, U36W, U36D, U37, U38, U39,
U40, U40W, U41, U41W, U42, U42W, U43, U43W, U44, U44W, U45, U45W, U46, U46W, U46C, U46C-W, U47, U47B, U47W, U48, U48W, U49, U49W, U49C,
U50, U51, U52, U52G, U52W, U53, U54, U54W, U54PLUS, U55, U56, U57, U58, U59,
U60, U61, U62, U63, U64, U65, U66, U67, U68, U69,
U70, U71, U72, U72, U73, U74, U75, U76, U77, U78, U79,
U80, U81, U82, U83, U84, U85, U86, U87, U88, U88PLUS, U88Plus-G, U89,
U818A PLUS, U818A PLUS-C, U818A, U818A-1, U818A HD, U818A WIFI, U818A PLUS-G
U90, U91, U92, U93, U94, U95, U96, U97, U98, U99,
U100, U101, U102, U103, U104, U105, U106, U107, U108, U109,
U110, U111, U112, U113, U114, U115, U116, U117, U118, U119,
U120, U121, U122, U123, U124, U125, U126, U127, U128, U129,
U130, U131, U132, U133, U134, U135, U136, U137, U138, U139,
U140, U141, U142, U143, U144, U145, U146, U147, U148, U149,
U150,
VR1, VR2, VR3, VR4, VR5, VR6, VR7, VR8, VR9, VR10,
UDI001, UDI002, UDI003, UDI004, UDI005, UDI006, UDI007, UDI008, UDI009, UDI010, UDI011, UDI012, UDI013, UDI014, UDI015, UDI016, UDI017, UDI018, UDI019, UDI020,
6182-7SN, 6182-7S DIL, 6182-7S, 6182-7RC DIL, 6182-7RC, 6182-7RC STE, 6182-7SN MCE, 6182-7S BI, ACDRVR, Archos Drone VR, U842-1, U842, U842-2, U842 WIFI, U845, U845 WIFI, U845 FPV, U841, U841-1, U839, U840, U27, U12, U12A, U13, U13A, U835, U829, U829A FPV, U28, U28-1, U28W, U42, U42W, U42HW, VR-2, U820, U843, D2, ZX-TTN, ZX-ATL, ZXRHD, ZXNVA, ZXRAP, ZXSPT, 6182-7RB TM1, ARCHOS DRONE WW, ARCHOS PICO DRONE, A15W, CW4, U48A, U48HW, TDFT0019, TDFT0014, RC60706, RC49581, RC46892, DRONE 200, DRONE 400, 25197, 25163, T5176, T5177, AA108, A18, A20, A25, A28, A30, T15, T18, T25, T28, T35, 25196, 25194, 25159, 25160, 23938, NT.SS9, NT.SF1M, RC18167, RC18168, RC15771, RC46892, RC49580, T5147, T5170, RGR3000, TDFT0005, TDFT0006, EC16238, EC16242, EC16241, EC16239, EC16243, 6182-7RC AEO. 6182-7SN AEO, 6182-7RB TM1, 6182-7SC BUR, ACPIDR, ACDRONE, A20W, CW 10, U88WIFI, AA 108, AA 818, 6182-7RCH, 8073472, 8073473, RC60706, TDFT0020, TDFT0021, Robin FPV, U60Pro-WCH, CW10

Channel List:

Channel	Frequency MHz
1	2446
2	2451
3	2456
4	2461

**Note:** The Lowest, middle, and the Highest frequency of channel were selected to perform the test. The frequency selected see below:

The Lowest frequency: 2446MHz

The middle frequency: 2451MHz

The Highest frequency: 2461MHz

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **ZKWUA221803001** filing to comply with Section 15.249 of the FCC Part 15 (2017), Subpart C Rule.

## 1.3 Test Methodology

Radiated emission measurements performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

## 1.4 Equipment Modifications

Not available for this EUT intended for grant.

## 1.5 Support Device

None

## 1.6 Test Facility and Location

### Site Description

- EMC Lab : Listed by CNAS, August 14, 2015  
The certificate is valid until August 13, 2018  
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01  
The Certificate Registration Number is L5795.
- Listed by A2LA, November 01, 2017  
The certificate is valid until December 31, 2019  
The Laboratory has been assessed and proved to be in compliance with ISO17025  
The Certificate Registration Number is 4429.01
- Listed by FCC, November 06, 2017  
The Designation Number is CN1214  
Test Firm Registration Number: 907417
- Listed by Industry Canada, June 08, 2017  
The Certificate Registration Number. Is 46405-9743
- Name of Firm : Dongguan Nore Testing Center Co., Ltd.  
(Dongguan NTC Co., Ltd.)
- Site Location : Building D, Gaosheng Science & Technology Park,  
Zhouxi Longxi Road, Nancheng District, Dongguan  
City, Guangdong Province, China

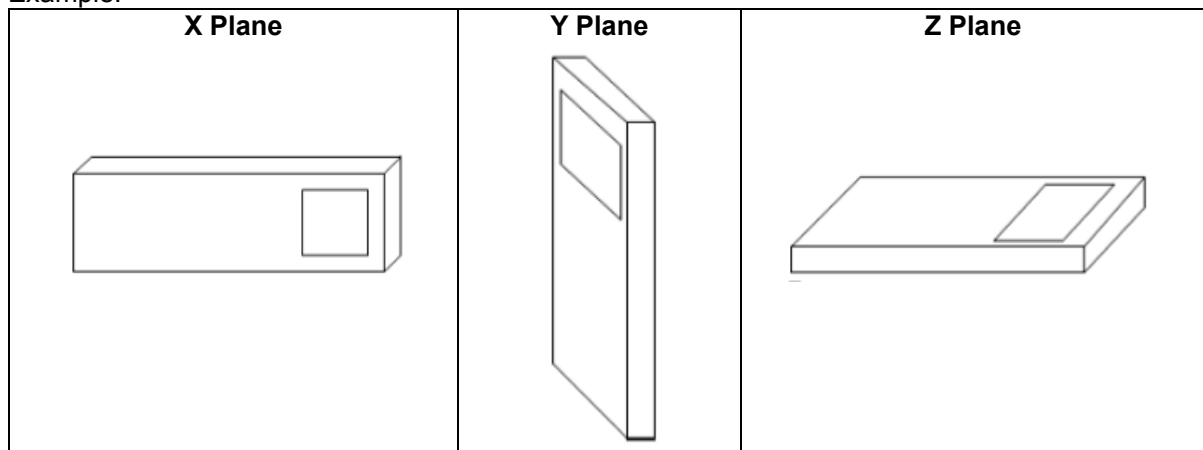


### 1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.207(a)	AC Power Conducted Emission	±1.06dB	Not Applicable
§15.249(a)/ 15.209	Radiated Emissions	±3.70dB	Compliant
§15.249(d)/ 15.205	Band Edge	±1.70dB	Compliant
§15.215(c)	20dB Bandwidth	±1.42 x10 <sup>-4</sup> %	Compliant
§15.203	Antenna Requirement	±0.60dB	Compliant

- Note: 1. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The New battery be used during test)
2. Due to this EUT is powered by battery only, the AC Power Conducted Emission is not applicable.
3. The EUT powered by battery and operating multiple positions, so the EUT shall be performed two or three orthogonal planes. The worst plane is Z.

Example:



---

## 2. System Test Configuration

### 2.1 EUT Configuration

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

### 2.2 Special Accessories

Not available for this EUT intended for grant.

### 2.3 Description of test modes

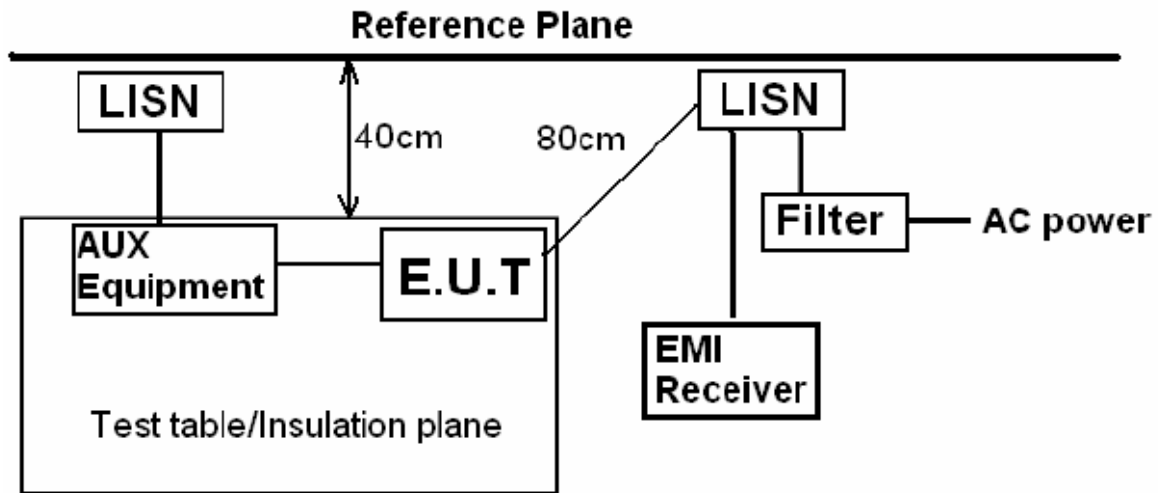
The EUT has been tested under operating condition. The Lowest, middle and highest frequencies were chosen for testing.

### 2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

### 3. Conducted Emissions Test

#### 3.1 Test SET-UP (Block Diagram of Configuration)



#### 3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: TX

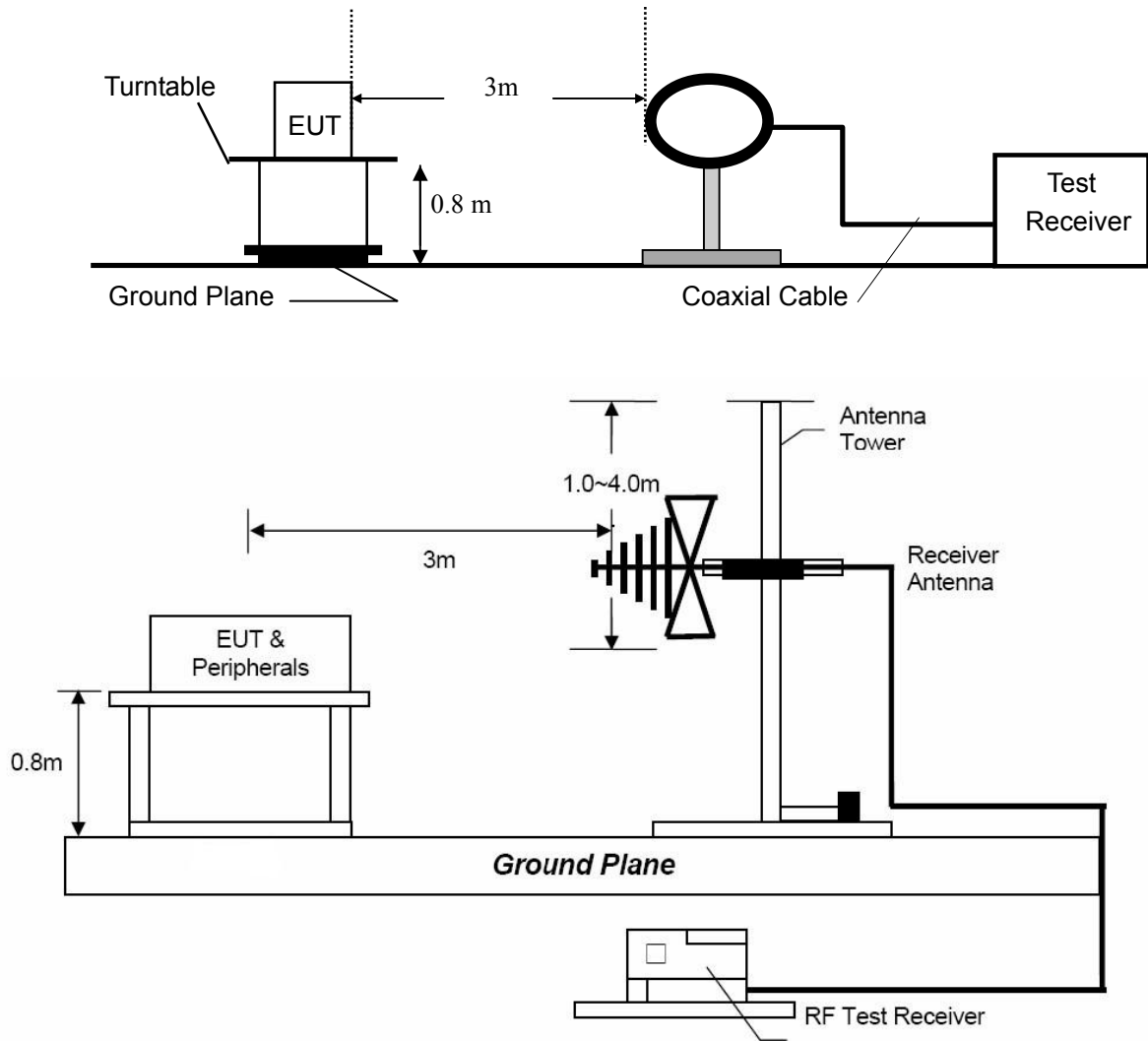
#### 3.3 Measurement Results

Not Applicable.

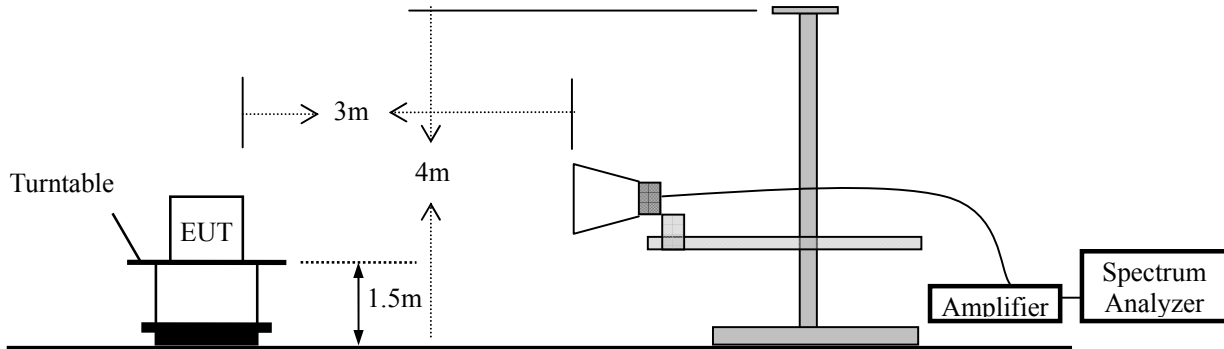
## 4. Radiated Emission Test

### 4.1 Test SET-UP (Block Diagram of Configuration)

#### 4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



#### 4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



#### 4.2 Measurement Procedure

- a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:  
The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

### 4.3 Limit

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)	
		μV/m	
0.009 ~ 0.490	300	2400/F(kHz)	
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	
88 ~ 216	3	150	
216 ~ 960	3	200	
Above 960	3	500	
Frequency range MHz	Distance Meters	Field Strengths Limit (15.249)	
		mV/m (Field strength of fundamental)	μV/m (Field strength of Harmonics)
902 ~ 928	3	50	500
2400 ~ 2483.5	3	50	500
5725 ~ 5875	3	50	500
24000 ~ 2425000	3	250	2500

- Remark :
- (1) Emission level (dB)μV = 20 log Emission level μV/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
  - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

#### 4.4 Measurement Results

Please refer to following the test plots of the worst case: High channel.



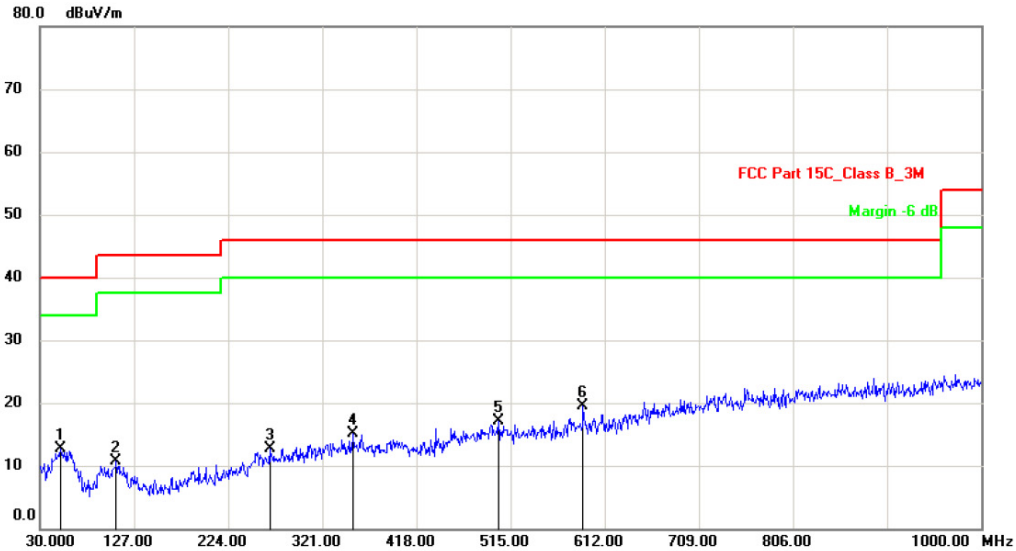




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 Tel: +86-769-22022444 Fax: +86-769-22022799  
 Web: <http://www.ntc-c.com>

**Radiated Emission Measurement**

File :UA22      Data :#1      Date: 2018-3-29      Time: 17:52:59



Site:      Polarization: **Vertical**      Temperature: 26  
 Limit: FCC Part 15C\_Class B\_3M      Power: DC6V      Humidity: 47 %  
 EUT: U47 (Transmitter)      Distance: 3m  
 M/N: UA22  
 Mode: TX  
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		51.3400	26.18	-13.46	12.72	40.00	-27.28	QP		
2		108.5700	26.84	-16.12	10.72	43.50	-32.78	QP		
3		266.6800	25.90	-13.27	12.63	46.00	-33.37	QP		
4		352.0400	26.18	-11.13	15.05	46.00	-30.95	QP		
5		502.3900	25.87	-8.75	17.12	46.00	-28.88	QP		
6	*	589.6900	26.81	-7.28	19.53	46.00	-26.47	QP		

\*:Maximum data    x:Over limit    !:over margin

(Reference Only)

**Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.**

Frequency Range: 1-25GHz      Test Date : April 16, 2018  
 Test Result: PASS      Temperature : 21 °C  
 Measured Distance: 3m      Humidity : 55 %  
 Test By: Sance

Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
<b>Operation Mode: TX Mode (Low)</b>										
2446	V	80.26	37.52	0.25	80.51	---	114.00	94.00	-33.49	---
4892	V	61.30	37.71	6.64	67.94	44.35	74.00	54.00	-6.06	-9.65
7338	V	47.78	32.22	10.55	58.33	42.77	74.00	54.00	-15.67	-11.23
---										
2446	H	86.31	48.93	0.25	86.56	---	114.00	94.00	-27.44	---
4892	H	63.99	37.66	6.64	70.63	44.30	74.00	54.00	-3.37	-9.70
7338	H	48.80	32.06	10.55	59.35	42.61	74.00	54.00	-14.65	-11.39
---										
<b>Operation Mode: TX Mode (Mid)</b>										
2451	V	79.57	46.56	0.26	79.83	---	114.00	94.00	-34.17	---
4902	V	62.95	38.04	6.68	69.63	44.72	74.00	54.00	-4.37	-9.28
7353	V	48.34	32.48	10.56	58.90	43.04	74.00	54.00	-15.10	-10.96
---										
2451	H	84.47	47.26	0.26	84.73	---	114.00	94.00	-29.27	---
4902	H	64.23	38.17	6.68	70.91	44.85	74.00	54.00	-3.09	-9.15
7353	H	48.54	32.15	10.56	59.10	42.71	74.00	54.00	-14.90	-11.29
---										
<b>Operation Mode: TX Mode (High)</b>										
2461	V	81.32	45.4	0.29	81.61	---	114.00	94.00	-32.39	---
4922	V	63.82	37.33	6.75	70.57	44.08	74.00	54.00	-3.43	-9.92
7383	V	49.22	32.20	10.57	59.79	42.77	74.00	54.00	-14.21	-11.23
---										
2461	H	85.36	46.53	0.29	85.65	---	114.00	94.00	-28.35	---
4922	H	59.76	37.37	6.75	66.51	44.12	74.00	54.00	-7.49	-9.88
7383	H	47.70	31.87	10.57	58.27	42.44	74.00	54.00	-15.73	-11.56
---										

- Note:** (1) All Readings are Peak Value and AV.  
 (2) Emission Level= Reading Level + Factor  
 (3) Factor= Antenna Gain + Cable Loss – Amplifier Gain  
 (4) Data of measurement within this frequency range shown “ ---” in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.  
 (5) Measurement uncertainty : ±3.7dB.  
 (6) Horn antenna used for the emission over 1000MHz.  
 (7) Due to the highest Peak emission level below AVG limit, therefore, the AVG emission level is deemed to meet the requirements, no AVG result record.

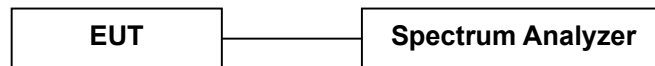
## 5. 20dB Bandwidth

### 5.1 Measurement Procedure

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

### 5.2 Test SET-UP (Block Diagram of Configuration)



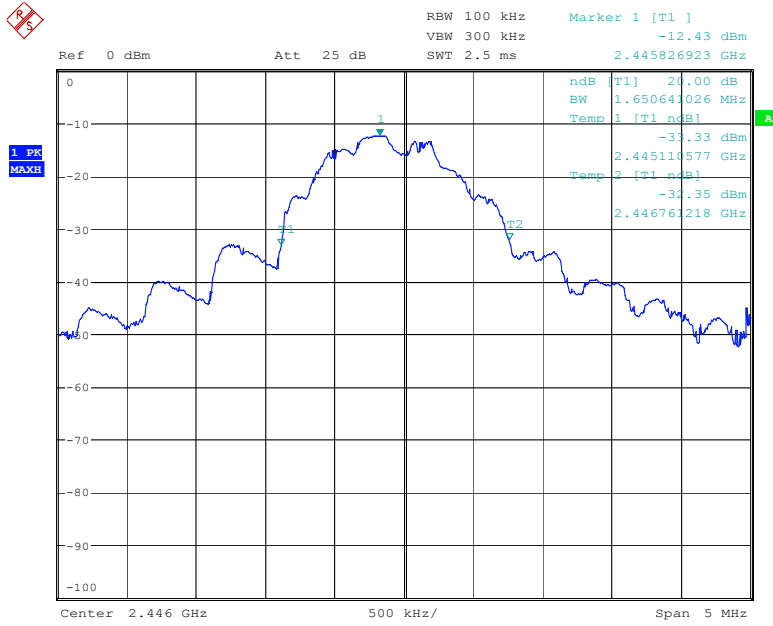
### 5.3 Measurement Results

Refer to attached data chart.

RBW:	100KHz	VBW:	300KHz
Spectrum Detector:	PK	Temperature :	22 °C
Test By:	Sance	Humidity :	54 %
Test Result:	PASS	Test Date :	March 30, 2018

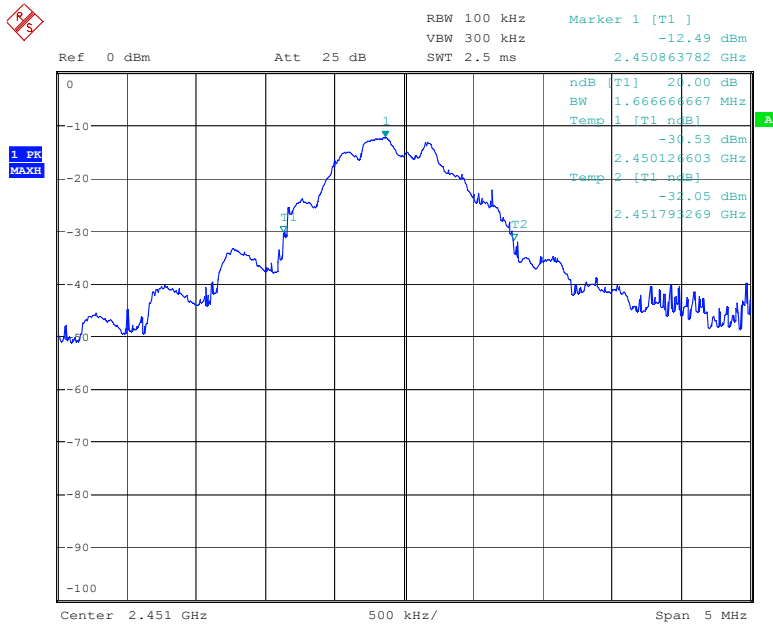
Channel frequency (MHz)	20dB Down BW(kHz)
2446	1651
2451	1667
2461	2011

### Lowest Channel



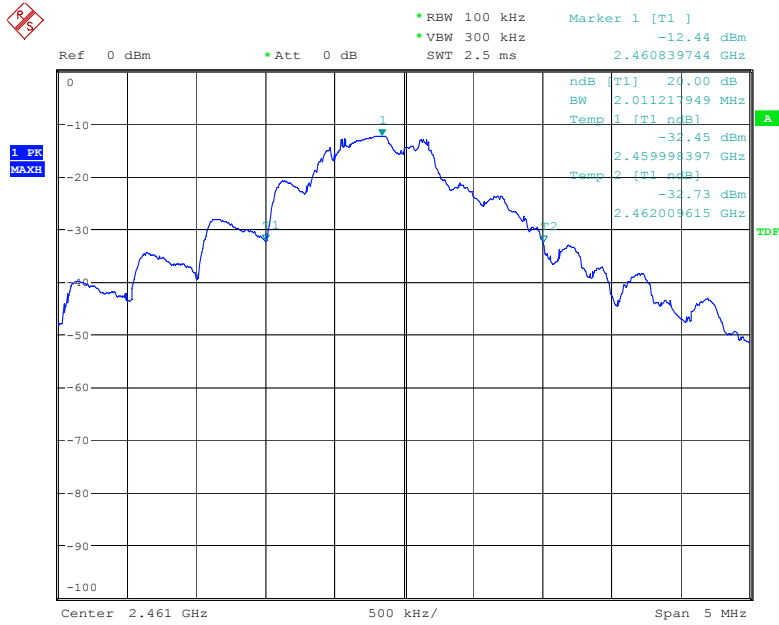
Date: 30.MAR.2018 11:29:07

### Middle Channel



Date: 30.MAR.2018 11:38:25

### Highest Channel



Date: 30.MAR.2018 13:57:24

## 6. Band Edge

### 6.1 Measurement Procedure

Same as Radiated Emission Test.

### 6.2 Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 6.3 Measurement Results

Operation Mode:	TX Mode	Test Date :	April 16, 2018
Temperature :	21 °C	Humidity :	55 %
Test Result:	PASS	Test By:	Sance
Measured Distance:	3m		

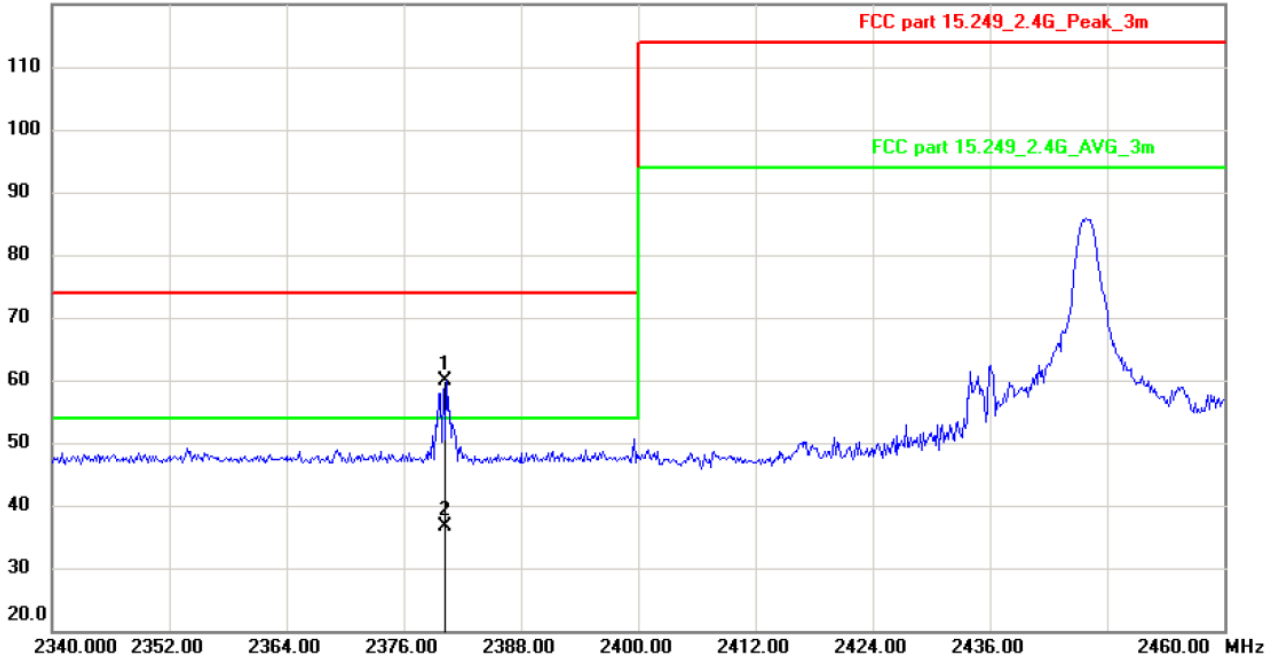
Freq. (MHz)	Ant.Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV)		Limit 3m (dBuV/m)		Margin (dB)	
		PK	AV		PK	AV	PK	AV	PK	AV
2380.200	H	59.74	36.52	0.07	59.81	36.59	74.00	54.00	-14.19	-17.41
2380.200	V	60.01	36.72	0.07	60.08	36.79	74.00	54.00	-13.92	-17.21
2492.050	H	59.35	36.74	0.38	59.73	37.12	74.00	54.00	-14.27	-16.88
2492.050	V	60.35	36.26	0.38	60.73	36.64	74.00	54.00	-13.27	-17.36

- Note:**
- (1) Emission Level= Reading Level + Factor
  - (2) Factor= Antenna Gain + Cable Loss – Amplifier Gain
  - (3) Horn antenna used for the emission over 1000MHz.

### Low channel

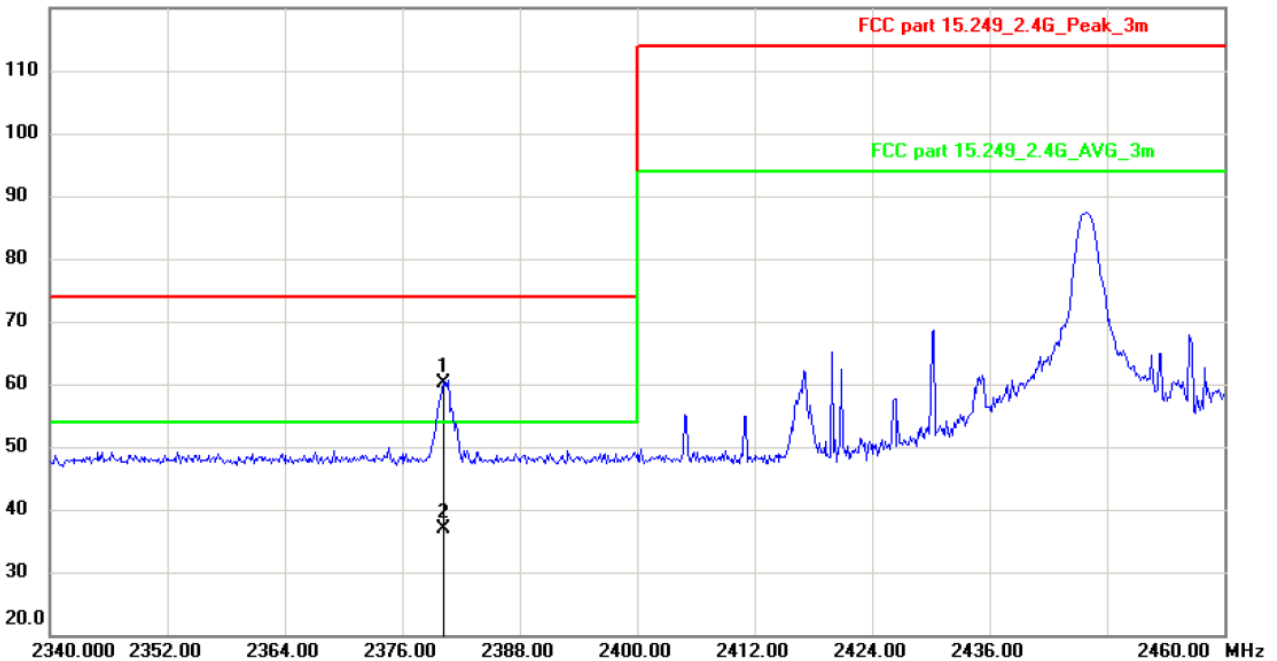
Horizontal

120.0 dBuV/m



Vertical

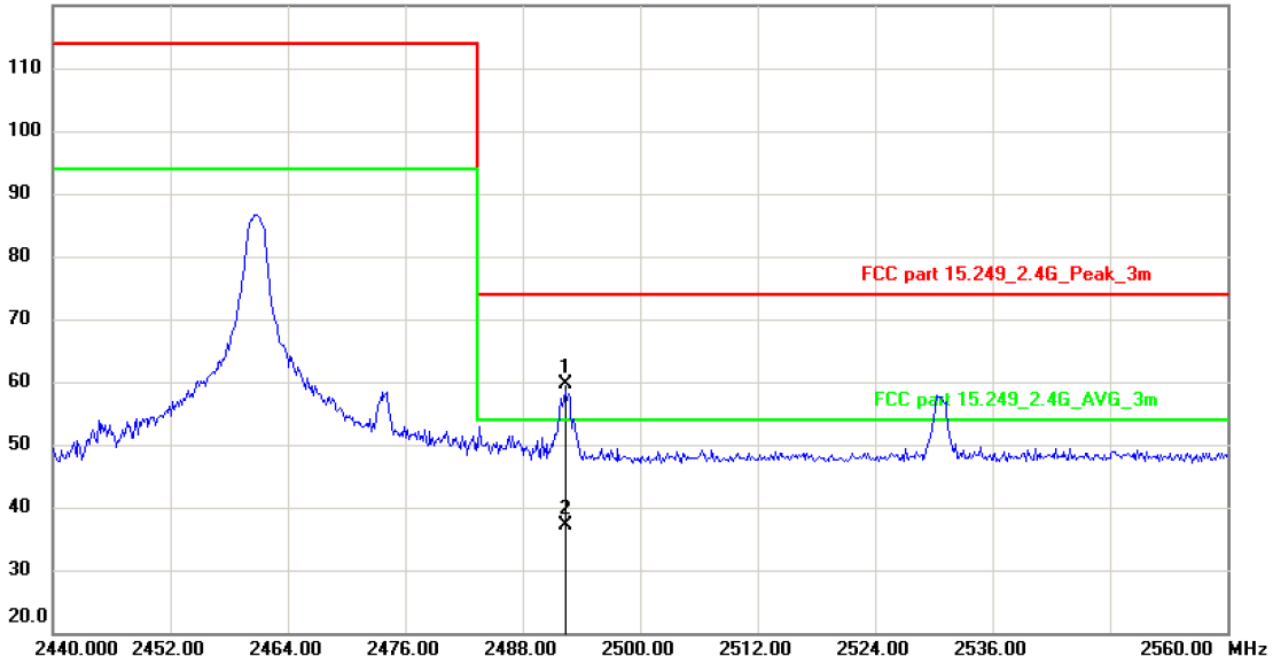
120.0 dBuV/m



### High channel

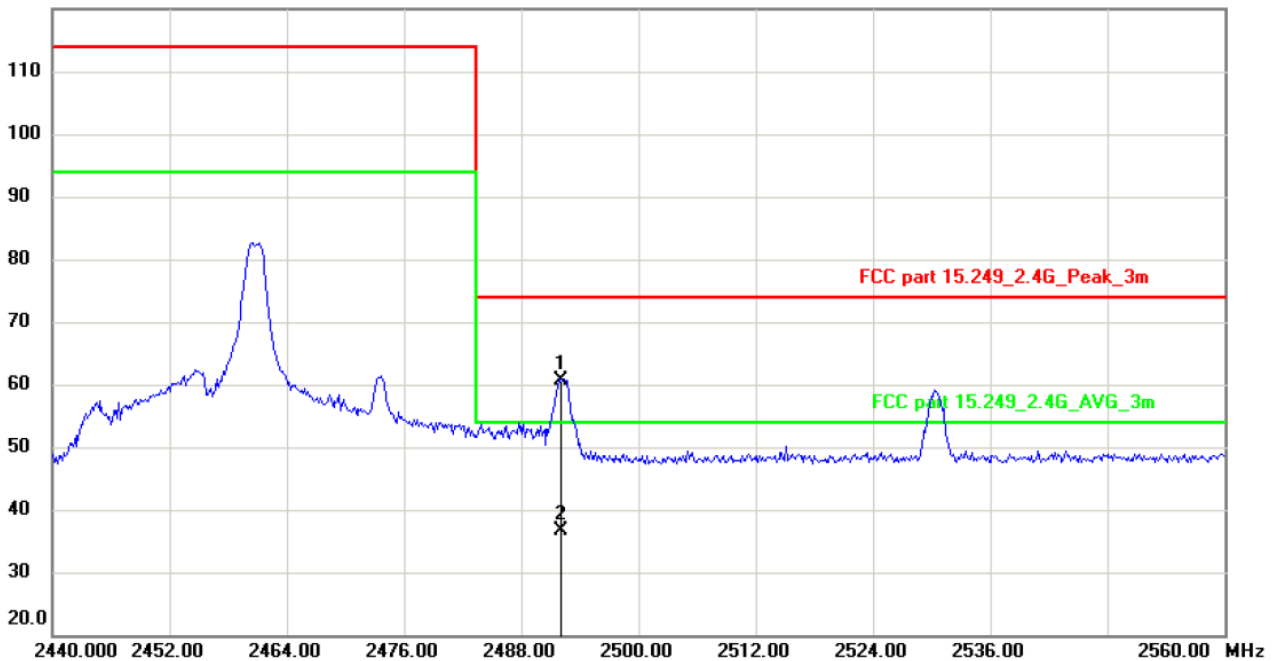
Horizontal

120.0 dBuV/m



Vertical

120.0 dBuV/m





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## 7. Antenna requirement

### 7.1 Measurement Procedure

According to of FCC part 15C section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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

### 7.2 Measurement Results

The antenna is integral antenna and no consideration of replacement, and the best case gain of the antenna is 0dBi. So, the antenna is consider meet the requirement.

## 8. Test Equipment List

Description	Manufacturer	Model Number	Serial Number	Characteristics	Calibration Date	Calibration Due Date
Test Receiver	Rohde & Schwarz	ESCI7	100837	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
Antenna	Schwarzbeck	VULB9162	9162-010	30MHz~7GHz	Mar. 15, 2018	Mar. 14, 2019
Cable	Huber+Suhner	CBL2-NN-1M	22390001	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
Cable	Huber+Suhner	CIL02	N/A	9KHz~7GHz	Mar. 14, 2018	Mar. 13, 2019
RF Cable	Huber+Suhner	SF-104	MY16559/4	9KHz~25GHz	Apr. 25, 2017	Apr. 25, 2018
Power Amplifier	HP	HP 8447D	1145A00203	100KHz~1.3GHz	Mar. 14, 2018	Mar. 13, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-242	15GHz~40GHz	Mar. 14, 2018	Mar. 13, 2019
Horn Antenna	Com-Power	AH-118	071078	1GHz~18GHz	Mar. 15, 2018	Mar. 14, 2019
RF Cable	Huber+Suhner	SF-104	N/A	9KHz~40GHz	Apr. 25, 2017	Apr. 24, 2018
Loop antenna	Daze	ZA30900A	0708	9KHz~30MHz	Apr. 25, 2017	Apr. 24, 2018
Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	20Hz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
Spectrum Analyzer	Rohde & Schwarz	FSV40	101003	10Hz~40GHz	Apr. 06, 2018	April. 05, 2019
Pre-Amplifier	EMCI	EMC 184045	980102	18GHz~40GHz	Nov. 03, 2017	Nov. 02, 2018
Pre-Amplifier	Agilent	8449B	3008A02964	1GHz~26.5GHz	Apr. 25, 2017	Apr. 24, 2018
L.I.S.N.	Rohde & Schwarz	ENV 216	101317	9KHz~30MHz	Mar. 14, 2018	Mar. 13, 2019
Temporary antenna connector	TESCOM	SS402	N/A	9KHz-25GHz	N/A	N/A
Power Meter	Anritsu	ML2495A	1139001	100k-65GHz	Nov. 03, 2017	Nov. 02, 2018
Power Sensor	Anritsu	MA2411B	100345	300M-40GHz	Nov. 03, 2017	Nov. 02, 2018

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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