

### **EMC - TEST REPORT**

Report Number	: 612861818901	- <b>2</b> Da	ate of Issue:	Sep. 07, 2018
Model	: K200, K202, K402, K404, K600, K602, K604, K606			
_	: K800, K802, K8	304, K806, K8	808	
Product Type	: Radio remote c	ontrol transmi	itter	
Applicant	: SHUN HU Tech	nnology Co., L	_td.	
Address	: No. 21, Zhongg	jong Rd., Xihu	u Township,	
_	: Changhua Country 514, Taiwan			
Manufacturer	: SHUN HU Technology Co., Ltd.			
Address	: No. 21, Zhonggong Rd., Xihu Township,			
_	: Changhua Country 514, Taiwan			
Test Result	: ■ Positive	□ Negative		
Total pages including Appendices	: 35			

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# **Table of Content**

2. 2.1 2.2 2.3 2.4 2.5 2.6	General Information  Notes  Testing Laboratory  Details of Applicant  Application Details.  Applied Standard.  Test Summary	3 4 4 4 5
2.7 3. 3.1 3.2	Performance Criteria  EUT Information  EUT Description  EUT Appearance	7 7
4. 4.1 4.2 4.3	System Configuration during EMC Test Test Configurations Test Mode Configurations of Test System	9 9
5. 5.1 5.2 5.3 5.4 5.5	Electromagnetic Interference (EMI)  Radiated Disturbance 30MHz to 6000MHz  Conducted Disturbance 0.15 MHz to 30MHz On AC Port  Conducted Disturbance on Telecommunication Port 0.15 MHz to 30MHz  Current Harmonics Emissions  Voltage Fluctuations (Flicker)	11 13 14 15
6. 6.1 6.2 6.3 6.4 6.5 6.6	Electromagnetic Susceptibility (EMS)  Immunity to Electrostatic Discharge  Radio Frequency Electromagnetic Field  Immunity to Electrical Fast Transient Bursts  Immunity to Surges  Immunity to Continuous Conducted Interference 0.15MHz to 80MHz  Immunity to Voltage Dips and Short Interruption of AC Power Port	17 20 22 23
7.	Main Test Instruments	27
8.	System Measurement Uncertainty	28
9. 9.1	Graph and Data of Emission TestRadiated Disturbance (30 MHz – 1 GHz)	
10. 10.1 10.2 10.3	Setup Photographs of EUT	33 34 35
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## 1. Report Version

Revision	Release Date	History/Memo.
1.0	Sep. 07, 2018	Initial Release

### 2. General Information

The product is a Radio remote control transmitter.

### 2.1 Notes

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			٥
Prepared By	2018-08-01	Peter Syu	
Project Engineer	Date	Name	Signature

Approved by 2018-08-15 Rogner Liu
EMC Supervise Date Name Signature

Peter Syn



## 2.2 Testing Laboratory

Test Laboratory: MRT Technology Co.,

Test Site: No.38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333,

Taiwan (R.O.C.)

## 2.3 Details of Applicant

Client: SHUN HU Technology Co., Ltd.

Address: No. 21, Zhonggong Rd., Xihu Township, Changhua Country 514, Taiwan

Product Description: Radio remote control transmitter

Submitted Model No.: K200, K202, K402, K404, K600, K602, K604, K606,

K800, K802, K804, K806, K808

### 2.4 Application Details

Revision	1.0	
Date of receipt of order	Jun 25, 2018	
Date of receipt of test item	Jun 28, 2018	
Date of test	July 1, 2018	

## 2.5 Applied Standard

EN 301 489-1 V 2.1.1 EN 301 489-3 V 2.1.1



# 2.6 Test Summary

Summary of Results				
Test Items	Test Mode	Performance Class & Required Performance Criteria	Result	Site
Radiated Emissions  ⊠Enclosure Port	TM1	CLASS B	Pass	Site 1
Conducted Emissions  ☐DC Power Port ☐AC Power Port ☐Telecom. Ports	NA	NA	NA	Site1
Current harmonics emissions  AC Power Port	NA	NA	NA	Site1
Voltage fluctuations and flickers  ☐AC Power Port	NA	NA	NA	Site1
Immunity To Radiated Electromagnetic Fields ⊠Enclosure Port	TM1	CT/CR	Pass	Site1
Immunity To Electrostatic <u>Discharge</u> ⊠Enclosure Port	TM1	TT/TR	Pass	Site1
Immunity To Electrical Fast  Transient Bursts  □AC Power Port □DC Power Port □Telecom. Ports	NA	TT/TR	NA	Site1
Immunity To Surges  AC Power Port DC Power Port Telecom. Port	NA	TT/TR	NA	Site1
Immunity To Continuous Conducted Interference  AC Power Port DC Power Port Telecom.Ports	NA	CT/CR	NA	Site1
Immunity To Voltage dips and Short Interruption  ☐AC Power Port	NA	TT/TR	NA	Site1
Note:  1, Measurement taken is within the measurement uncertainty of measurement system.  2,  The item has been tested;  The item has not been tested.				

Test Mode: TM1 See 4.1 for definition



## 2.7 Performance Criteria

Clause 6 of EN301 489-1		
Criteria	Performance Criteria	
CT/CR	During and after the test, the apparatus shall continue to operate as intended.  No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended.	
TT/TR	After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended.	

Remark: The EUT has met the requirements of Performance Criterion defined were in accordance with Product standards.



## 3. EUT Information

# 3.1 EUT Description

Description:	Radio remote control transmitter
Model(s):	K200, K202, K402, K404, K600, K602, K604, K606, K800, K802, K804, K806, K808
Hardware edition	N/A
PCB hardware version	N/A
Software version	N/A
Antenna Deliver	1*TX
Battery Rated Voltage	3.0 Vdc

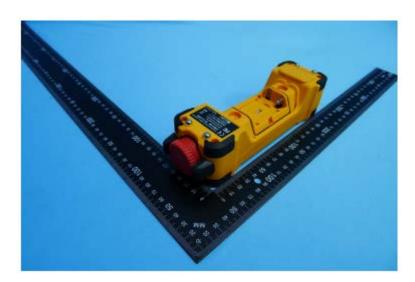
Remark: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description

# 3.2 EUT Appearance





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## 4. System Configuration during EMC Test

## 4.1 Test Configurations

The applicant has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was in this test report and defined as:

Test Sample: AMP30	
Test Mode1 (TM1)	433 MHz Link

According to the preliminary test for Radiated Emission at these three test modes, it was found test Mode 1 was the worst. These three test modes were taken as the representative condition for testing and its data are recorded in this test report.

### 4.2 Test Mode

See 4.1



# 4.3 Configurations of Test System







# 5. Electromagnetic Interference (EMI)

### 5.1 Radiated Disturbance 30MHz to 6000MHz

#### 5.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4. The test distance was 3m for 30 ~ 1GHz.

The test site full-anechoic chamber has met the requirement of VSWR tolerance 6dB according to the standards: CISPR 16-1-4. The test distance was 3m for 1GHz ~ 6GHz.

The set-up and test methods were according to EN 55032 a preliminary scan and a final scan of the emissions were made from 30 MHz to 1GHz by using test script of software; the emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV/PK Detector (above 1GHz).

The maximal emission value was acquired by adjusting the antenna height, polarization and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, the azimuth range of turntable was 0°to 360°. The receive antenna has two polarizations V and H.

#### 5.1.2 Test Setup

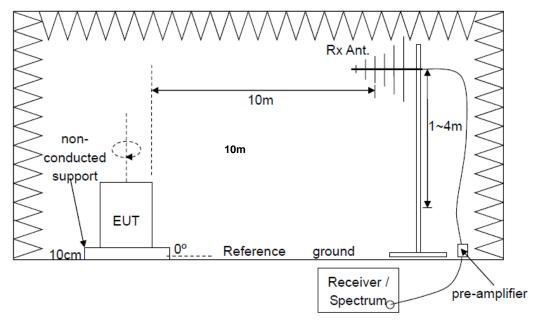


Figure 1. Test set-up of radiated disturbance(30MHz-1GHz)

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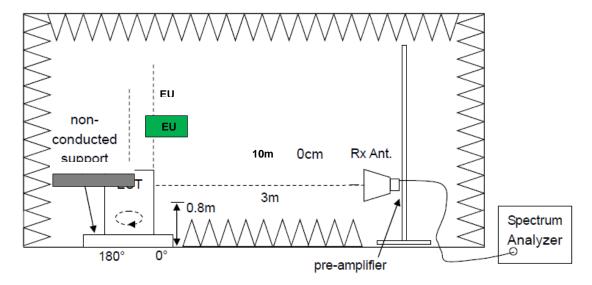


Figure 2. Test set-up of radiated disturbance (above 1GHz)

#### 5.1.3 Test Results

The EUT has met the requirements for Radiated Emission of enclosure port. The test data see section 9.1 of this report.

Test Limits				
Frequency (MHz)	Distance (m)	(d	QP BuV/m)	
30 - 230	10	30		
230 - 1000	10	37		
Frequency (GHz)	Distance (m)	Average (dBuV/m)	Peak (dBuV/m)	
1-3	3	50	70	
3-6	3	54	74	

Test environment condition:

Performed Item	Item	Required	Actual
	Ambient temperature	15°C ~ 35°C	24°C
Radiated Emission	Relative humidity	25% ~ 75%	67%
5.311	Atmospheric pressure	86 kPa ~ 106kPa	99kPa



### 5.2 Conducted Disturbance 0.15 MHz to 30MHz On AC Port

#### 5.2.1 Test Procedure

The EUT was configured as described in section 4 for this test. The mains cable of the EUT being measured shall be connected to LISN, The LISN shall be placed 0.8m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

All telecommunication and signal ports must be correctly terminated using either appropriate associated equipment or a representative termination during the measurement of the conducted disturbances at the mains.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1m.

The setup of Conducted Disturbance for telecommunication port was according to Annex C of EN 55022/CISPR 22.

#### 5.2.2 Test Setup

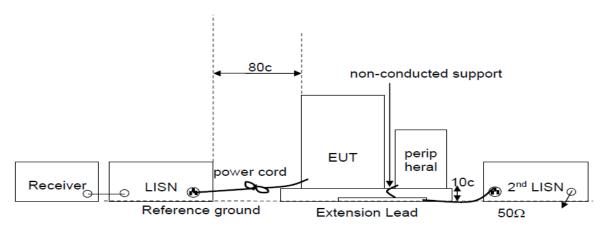


Figure 3. Test set-up of conducted disturbance for power port

#### 5.2.3 Test Results

The EUT Power by Battery, so do not need to test Conducted Emission.

#### Test Limit of AC Power Port

Frequency range	150kHz ~ 30MHz		
Fraguency	Voltage limits		
Frequency	QP	AV	
0.15MHz~0.5MHz	66-56 dBμV 56-46 dBμV		
0.5MHz-5MHz	56 dBμV 46 dBμV		
5MHz~30MHz	60 dBμV	50 dBμV	



5.3 Conducted Disturbance on Telecommunication Port 0.15 MHz to 30MHz

#### 5.3.1 Test Procedure

The EUT was configured as described in section 4 for this test. Assessment of common mode (asymmetric mode) current or voltage disturbances at telecommunication ports for attachment of unscreened balanced pairs shall be performed with the telecommunication port connected by a cable to an ISN; thus the ISN shall define the common mode termination impedance seen by the telecommunication port during the disturbance measurements. The ISN shall allow normal operation of the EUT, and to this end shall be interposed in the signal cable between the EUT and any auxiliary/associated equipment (AE) or load required to exercise the EUT.

The set-up and test methods were according to EN 55032

#### 5.3.2 Test Results

The EUT Power by Battery, so do not need to test Conducted Emission.

Test Limit of Telecommunication Port

Frequency range	150kHz~ 30MHz		
Classification	Class B		
Limit/Class B)	Voltage limits		
Limit(Class B)	QP	AV	
0.15MHz~0.5MHz	84~74 dBμV 74~64 dBμV		
0.5MHz~30MHz	74 dBμV	64 dBμV	



### **5.4 Current Harmonics Emissions**

#### **5.4.1 Test Procedure**

The EUT is to be powered from a clean (low distortion) 230V 50Hz AC Power Port source. The EUT was configured as described in section 4 for this test. The set-up and test methods were according to EN 61000-3-2/IEC 61000-3-2.

### 5.4.2 Test Setup

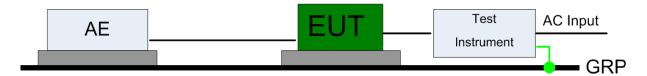


Figure 4. Test set-up of current harmonics emission test

#### 5.4.3 Test Results

The EUT Power by Battery, so do not need to test Harmonic Current Emissions.



## 5.5 Voltage Fluctuations (Flicker)

#### 5.5.1 Test Procedure

The EUT is to be powered from a clean (low distortion) 230V 50Hz AC Power Port source. The EUT was configured as described in section 4 for this test. The formal test ran 10mins and over a 2 hour period. The values of Pst, d(t), dmax and dc is measured. Power's source impedance is  $0.4+j0.25\Omega$ . The set-up and test methods were according to EN 61000-3-3/IEC 61000-3-3.

#### 5.5.2 Test Setup



Figure 5. Test set-up of voltage fluctuations test

#### 5.5.3 Test Results

The EUT Power by Battery, so do not need to test Voltage Fluctuations and Flicker.



# 6. Electromagnetic Susceptibility (EMS)

## 6.1 Immunity to Electrostatic Discharge

#### 6.1.1 Test Procedure

The EUT was configured as described in section 4 for this test. The set-up and test methods were according to IEC 61000-4-2.

#### 6.1.2 Test Set up

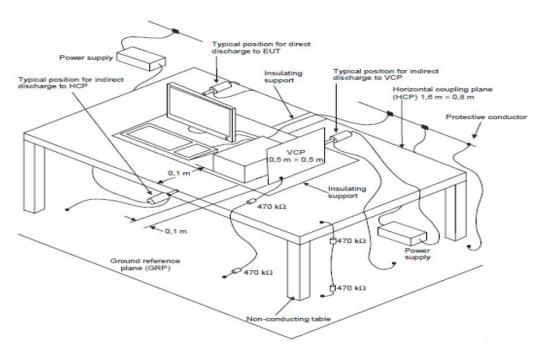


Figure 6. Test set-up of electrostatic discharge



### 6.1.3 Test Results

Test was performed on EUT with normal operation. Details of the points tested were presented in below:

Test Results							
		Specifica	tion Level				
Test Points	±2kV,±4kV Contact : Discharges		±2kV,±4kV, ±8kV Air Discharges		Conclusion		
	Positive	Negative	Positive	Negative			
	Indirect Contact						
Indirect Contact, HCP (left, right, front, rear)	√	√ √ N/A N/A					
Indirect Contact, VCP (left, right, front, rear)	<b>V</b>	√ √		N/A	Pass		
Direct Contact/ Air Contact							
See below	✓				Pass		
See below	N/A	N/A	<b>√</b>	<b>✓</b>	Pass		

 $<sup>\</sup>sqrt{\mbox{Normal operation condition specified by manufacturer during test}}$ 



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Test Location Air 01~12	Test Location Air 13~20/ Contact 01~04
Test Location Air 21	Test Location Air 22
Test Location Air 23	Test Location Air 24

### Test environment condition:

Performed Item	ltem	Required	Actual
Immunity to	Ambient temperature	15°C ~ 35°C	24°C
Electrostatic Discharge	Relative humidity	30% ~ 60%	46%
	Atmospheric pressure	86 kPa ~ 106kPa	101kPa



## 6.2 Radio Frequency Electromagnetic Field

#### 6.2.1 Test Procedure

The EUT was configured as described in section 4 for this test. The set-up and test methods were according to IEC 61000-4-3. All sides of the EUT (front, rear, left and right) were tested by antenna with vertical and horizontal polarization.

### 6.2.2 Test Setup

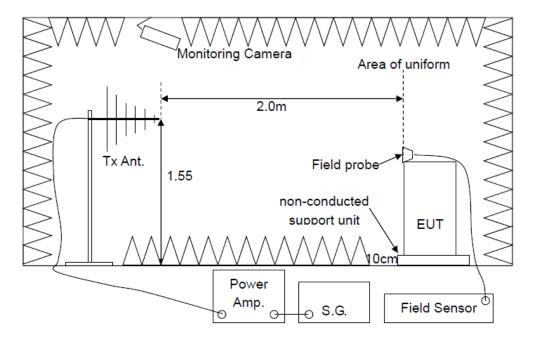


Figure 7. Test set-up of Immunity to Radiated Electric Fields



### 6.2.3 Test Results

Test was performed on EUT with normal operation. Test data were presented in below:

	Test Results of Radiated Electric Fields				
Test side of EUT	Front, Rear, Left, Right				
Criterion	CT&CR				
	80MHz –1400MHz				
Frequency range &	test level: 3 V/m(Unmodulated, rms)				
Test Level	1400MHz –6000MHz				
	test level: 3 V/m(Unmodulated, rms)				
Modulation	80% AM, 1kHz				
carrier centre	434 MHz				
frequency	TOT IVII IZ				
Conclusion	Pass (Criteria: A)				

### Test environment condition:

Performed Item	Item	Required	Actual
Immunity to	Ambient temperature	15°C ~ 35°C	25°C
Radiated	Relative humidity	25% ~ 75%	66%
Electric Fields	Atmospheric pressure	86 kPa ~ 106kPa	99kPa



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## 6.3 Immunity to Electrical Fast Transient Bursts

#### 6.3.1 Test Procedure

The EUT was configured as described in section 4 for this test. A series of Fast Transient Bursts meeting the specification were applied for a period of 120 seconds. The Transient Bursts were applied for both Positive and Negative Burst Trains to Power Port. The set-up and test methods were according to IEC 61000-4-4.

#### 6.3.2 Test Setup

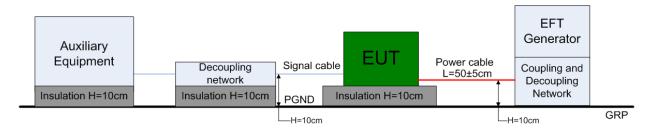


Figure 8. Test set-up of immunity to electrical fast transient bursts

#### 6.3.3 Test Results

The EUT Power by Battery, so do not need to test Electrical Fast Transients.

Test data were presented in below:

Test Results of Electrical Fast Transient Bursts					
Ports	Ports Measuring condition Description Conclusion				
AC Power Port	Level: ±1.0kV, Tr/Th: 5/50ns, 5kHz Interval: 120 seconds	N/A	N/A		
Telecommunication Port	N/A	N/A			



6.4 Immunity to Surges

#### 6.4.1 Test Procedure

The EUT was configured as described in section 4 for this test. A series of High Energy Surges were applied to Power Port. The set-up and test methods were according to IEC 61000-4-5.

### 6.4.2 Test Setup

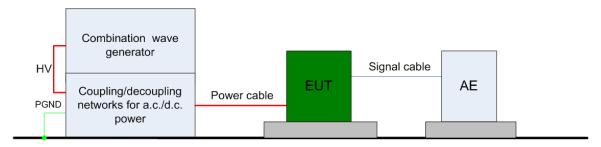


Figure 9. Test set-up of immunity to surge

#### 6.4.3 Test Results

The EUT Power by Battery, so do not need to test Surge.

Test data were presented in below:

	Test Results of Surges						
Ports Measuring condition Description Conclusi							
AC Power Port	Line to Line: L-N Level:±1.0kV, Tr/Th:1.2/50µs Interval: 60 seconds Phase: Sync	N/A	N/A				
Signal Port	Level:±1.0kV, Tr/Th:1.2/50µs Interval: 60 seconds	N/A	N/A				



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## 6.5 Immunity to Continuous Conducted Interference 0.15MHz to 80MHz

### 6.5.1 Test Procedure

The EUT was configured as described in section 4 for this test. The applied level was Amplitude Modulated by a 1 kHz sinusoidal signal to a modulation depth of 80%. The set-up and test methods were according to IEC 61000-4-6.

### 6.5.2 Test Setup

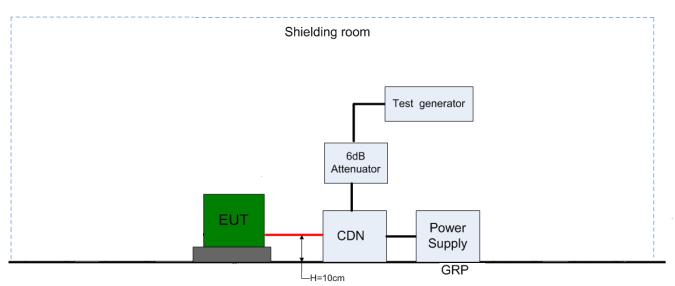


Figure 10. Test set-up of immunity to continuous conducted interference



### 6.5.3 Test Results

The EUT Power by Battery, so do not need to test Radio-Frequency Continuous Conducted.

Test data were presented in below:

Test Results of Continuous Conducted Interference						
Ports	Measuring condition	Inject method	Description	Conclusion		
AC Power Port	Frequency range: 0.15 MHz to 80 MHz Induced voltage :3 V (rms) Special frequency point: 0.2MHz;1.0MHz;7.1MHz;13.56 MHz;21.0MHz;27.12MHz; 40.68MHz (±1%)	CDN M2	N/A	N/A		
Signal port	Frequency range: 0.15 MHz to 80 MHz Induced voltage :3 V (rms) Special frequency point: 0.2MHz;1.0MHz;7.1MHz; 13.56MHz;21.0MHz; 27.12MHz;40.68MHz (±1%)	Clamp	N/A	N/A		



### 6.6 Immunity to Voltage Dips and Short Interruption of AC Power Port

#### 6.6.1 Test Procedure

The EUT was configured as described in section 4 for this test. The set-up and test methods were according to IEC 61000-4-11.

#### 6.6.2 Test Setup

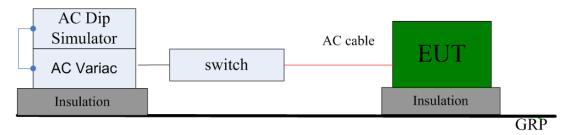


Figure 11. Test set-up of Voltage Dips and Short Interruption of AC Power Port

#### 6.6.3 Test Results

In the case where the equipment is fitted with or connected to a battery back-up, the performance criteria for transient phenomena shall apply. In the case where the equipment is powered solely from the AC mains supply (without the use of a parallel battery back-up) volatile user data may have been lost and if applicable the communication link need not to be maintained and lost functions should be recoverable by user or operator; no unintentional responses shall occur at the end of the test.

The EUT Power by Battery, so do not need to test Voltage Dips and interruptions.

Test data were presented in below:

Test Results of Voltage Dips and Short Interruption							
Ports	Measuring condition	Performance Criterion	Description	Conclusion			
	Voltage dip: 70 % residual voltage for 25 cycles (at 50 Hz)	TT&TR	N/A	N/A			
	Voltage dip: 0 % residual voltage for 0,5 cycle	TT&TR	N/A	N/A			
AC Power Port	Voltage dip: 0 % residual voltage for 1 cycle	TT&TR	N/A	N/A			
	Voltage interruption: 0 % residual voltage for 250 cycles (at 50 Hz)	TT&TR	N/A	N/A			



## 7. Main Test Instruments

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Date
Broadband TRILOG	Schwarzbeck	VULB 9162	MRTTWA00001	1 year	2019/5/22
Antenna	Schwarzbeck	VOLD 9102	WIKTTWAOOOT	ı year	2019/5/22
Broadband Horn	Schwarzbeck	BBHA 9120D	MRTTWA00003	1 year	2019/4/24
antenna	Schwarzbeck	DDNA 9120D	WIKTTWAOOOOS	i yeai	2019/4/24
Broadband	Schwarzbeck	BBV 9718	MRTTWA00005	1 2005	2019/4/23
Preamplifier	Schwarzbeck	DDV 9/10	WIRTTWA00005	1 year	2019/4/23
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2019/3/20
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2019/3/19

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Date
ESD Simulator	TESEQ	NSG 435	MRTTWA00049	1 year	2018/11/21

Instrument	Manufacturer	Туре No.	Asset No.	Cali. Interval	Cali. Due Date
Signal Generator	Agilent	E4438C	MRTSUE06081	1 year	2018/12/06
EPM Series Power Meter	Agilent	E4418B	MRTSUE06204	1 year	2019/07/04
Power Sensor	Agilent	E9301H	MRTSUE06205	1 year	2019/07/04
Power Amplifier	AR	150W1000M	MRTSUE06146	N/A	N/A
Power Amplifier	rflight	NTWPAS-10 25100	MRTSUE06364	N/A	N/A
Power Amplifier	rflight	NTWPAS-25 60100	MRTSUE06363	N/A	N/A
High-Gain Horn Antenna	AR	ATH800M5G A	MRTSUE06144	N/A	N/A
Log-Periodic Antenna	AR	ATR80M6G	MRTSUE06145	N/A	N/A
Digitial Thermometer & Hygrometer	Minggao	ETH529	MRTSUE06170	1 year	2018/12/12
Anechoic Chamber	RIKEN	Chamber-AC 2	MRTSUE06213	1 year	2019/04/30



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# 8. System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty						
Items	Extended Uncertainty					
RE (3m chamber)	U=4.32dB(30MHz~6GHz)					
CE	U=2.40dB					



# 9. Graph and Data of Emission Test

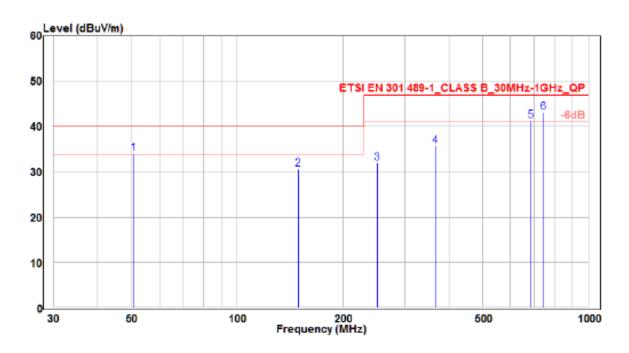
## 9.1 Radiated Disturbance (30 MHz – 1 GHz)

K200, K202, K402, K404, K600,

EUT Model: K602, K604, K606, K800, K802, Test Mode: Mode 1

K804, K806, K808

Test Mode: Normal Operation Polarization: Vertical



No		Frequency	Reading	C.F	Measurement	Margin	Limit	Height	Angle	Remark
INO		(MHz)	(dBuV)	(dB)	(dBuV/m)	(dB)	(dBuV/m)	(cm)	(deg)	(QP/PK/AV)
1		50.794	12.46	21.71	34.17	-5.83	40	100	220	QP
2		148.946	14.97	15.67	30.64	-9.36	40	150	240	QP
3		250.038	11.63	20.34	31.97	-15.03	47	110	390	QP
4		366.772	12.23	23.54	35.77	-11.23	47	100	40	QP
5		685.174	12.43	28.98	41.41	-5.59	47	100	-20	QP
6	*	744.253	13.31	29.83	43.14	-3.86	47	125	340	QP



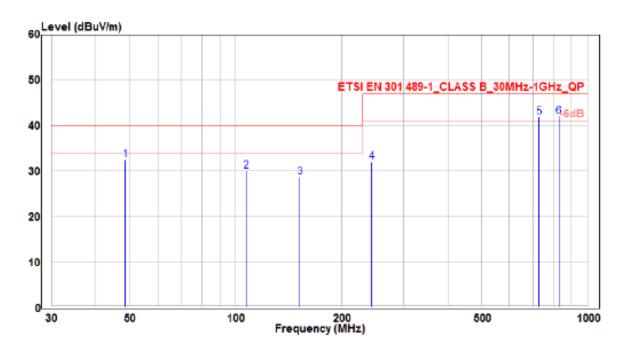
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K200, K202, K402, K404, K600,

EUT Model: K602, K604, K606, K800, K802, Test Mode: Mode 1

K804, K806, K808

Test Mode: Normal Operation Polarization: Horizontal



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		48.491	10.6	21.81	32.41	-7.59	40	100	30	QP
2		107.085	10.85	19.2	30.05	-9.95	40	100	290	QP
3		152.463	12.93	15.79	28.72	-11.28	40	120	380	QP
4		243.673	11.98	20.07	32.05	-14.95	47	130	-40	QP
5		729.703	12.23	29.63	41.86	-5.14	47	100	50	QP
6	*	830.008	11.15	30.89	42.04	-4.96	47	100	270	QP



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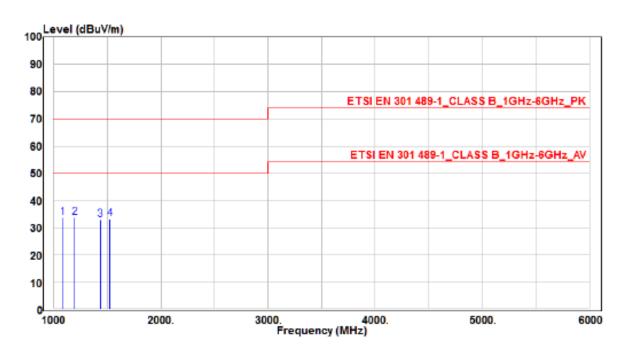
## Radiated Disturbance (1 GHz – 6 GHz)

K200, K202, K402, K404, K600,

EUT Model: K602, K604, K606, K800, K802, Test Mode: Mode 1

K804, K806, K808

Test Mode: Normal Operation Polarization: Vertical



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		1084.76	41.18	-7.44	33.74	-36.26	70	100	400	Peak
2	*	1193.51	40.8	-6.91	33.89	-36.11	70	100	400	Peak
3		1435.38	38.67	-5.74	32.93	-37.07	70	100	400	Peak
4		1522.41	38.71	-5.36	33.35	-36.65	70	100	400	Peak



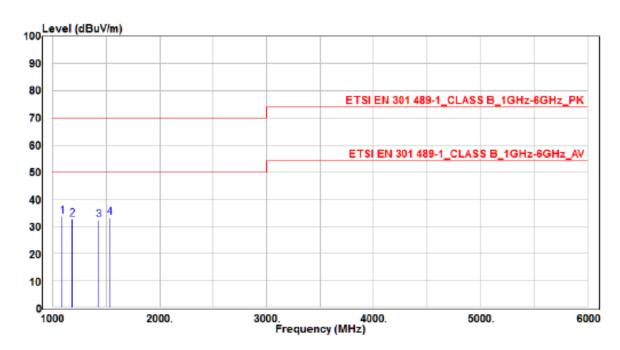
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K200, K202, K402, K404, K600,

EUT Model: K602, K604, K606, K800, K802, Test Mode: Mode 1

K804, K806, K808

Test Mode: Normal Operation Polarization: Horizontal



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
		, ,	(		, ,			,	. 2.	
1	×	1089.61	41.18	-7.42	33.76	-36.24	70	100	400	Peak
2		1179.92	39.63	-6.98	32.65	-37.35	70	100	400	Peak
3		1431.31	38.14	-5.76	32.38	-37.62	70	100	400	Peak
4		1532.09	38.65	-5.33	33.32	-36.68	70	100	400	Peak



# 10. Setup Photographs of EUT

# 10.1 Radiated Disturbance Emissions (30MHz - 1GHz)





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# 10.2 Radiated Disturbance Emissions (above 1GHz)





# 10.3 Immunity to Electrostatic Discharge



# 10.4 Radio Frequency Electromagnetic Field

