RF TEST REPORT



Report No.: 16021565-FCC-R1 Supersede Report No.: N/A

Applicant	Shenzhen PAKITE Technology Co.,Ltd.			
Product Name	RCA AV Sender & IR Remote Extender			
Main Model	PAT-220			
Serial Model	PAT-240, PAT-260, PAT-280, PAT-330, PAT-350, PAT-360, PAT-370, PAT-380			
Test Standard	FCC Part 15.231:	FCC Part 15.231: 2016, ANSI C63.10: 2013		
Test Date	January 06 to Jar	January 06 to January 10, 2017		
Issue Date	January 11, 2017			
Test Result	□ Pass □ Fail			
Equipment complied with the specification				
Equipment did not comply with the specification			_	
Amos. Xia		Miro	Bao	
Amos Xia Test Engineer		Miro B Checked		
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only				

Issued by:

SIEMIC (Nanjing-China) Laboratories

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Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

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Country/Region	Scope	
USA	EMC , RF/Wireless , Telecom	
Canada	EMC, RF/Wireless, Telecom	
Taiwan	EMC, RF, Telecom , Safety	
Hong Kong	RF/Wireless ,Telecom	
Australia	EMC, RF, Telecom , Safety	
Korea	EMI, EMS, RF , Telecom, Safety	
Japan	EMI, RF/Wireless, Telecom	
Singapore	EMC , RF , Telecom	
Europe	EMC, RF, Telecom , Safety	



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16021565-FCC-R1	NONE	Original	January 11, 2017

2. <u>Customer information</u>

Applicant Name	Shenzhen PAKITE Technology Co.,Ltd.
Applicant Add	12 Floor, 6 Building, 2 Reservoir Avenue, Nankeng Community, Bantian Street,
Applicant Add	Longgang District, Shenzhen
Manufacturer Name	Shenzhen PAKITE Technology Co.,Ltd.
Manufacturer Add	12 Floor, 6 Building, 2 Reservoir Avenue, Nankeng Community, Bantian Street,
Manufacturer Add	Longgang District, Shenzhen

3. Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
	2-1 Longcang Avenue Yuhua Economic and
Lab Add	Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	EZ_EMC



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4. Equipment Under Test (EUT) Information

Description of EUT:	RCA AV Sender & IR Remote Extender

Main Model: PAT-220

Serial Model: PAT-240, PAT-260, PAT-280, PAT-330, PAT-350, PAT-360, PAT-370, PAT-380

Date EUT received: December 16, 2016

Test Date(s): January 06 to January 10, 2017

Antenna Gain: 2 dBi

Type of Modulation: ASK

RF Operating Frequency (ies): Tx:433.92MHz

Number of Channels: 1 CH

Port: Composite video connector Port

Adapter:

Power: Model: SJ-0510-U

INPUT: 100-240V~50/60Hz OUTPUT: 5Vdc 1000mA

Trade Name : PAKITE

FCC ID: 2ABU5-433IRREMOTE

Note: the difference between these models please refers to Annex E. DECLARATION OF SIMILARITY in this reprot.



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5. Test Summary

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207	Conducted Emissions Voltage	Compliance
§15.231(b)	Fundamental & Radiated Spurious Emission	Compliance
§15.231(c)	20dB Bandwidth	Compliance
§15.231(a)(1)	Deactivation	Compliance

Note: Preliminary radiated emission testing has been performed on X, Y, Z axis, only worst case test result is presented in this test report.

Measurement Uncertainty

Emissions				
Test Item	Description	Uncertainty		
Conducted Emissions & Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	1.634dB / 3.952dB		



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

Requirement(s): 47 CFR §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.

Antenna requirement must meet at least one of the following:

- a) Antenna must be permanently attached to the device.
- b) Antenna must use a unique type of connector to attach to the device.
- c) Device must be professionally installed. Installer shall be responsible for ensuring that the correct antenna is employed with the device.

The antenna is permanently attached to the device which meets the requirement.

Result: Compliance.



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6.2 AC Conducted Emissions Voltage

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 10, 2017
Tested By:	Amos Xia

Conducted Emission Limit

Frequency ranges		Limit (dBµV)
Frequency ranges (MHz)	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

Spec	Item	Requirement	Applicable
47CFR§15.20 7, RSS210 (A8.1)	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu]H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	
Test Setup		Vertical Ground Reference Plane Horizontal Ground Reference Plane Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.	
Procedure	- - -	The EUT and supporting equipment were set up in accordance with the rof the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as Annex B. The power supply for the EUT was fed through a 50W/50mH EUT LISN, filtered mains. The RF OUT of the EUT LISN was connected to the EMI test receiver via coaxial cable. All other supporting equipment were powered separately from another materials.	shown in connected to a a low-loss
Remark			
Result	⊠ Pas	s □ Fail	



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Test Data	⊠Yes	□N/A
Test Plot	⊠Yes (See below)	□N/A

Data sample

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBµV)		(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)

Frequency (MHz) = Emission frequency in MHz

Reading (dB μ V) = Receiver Reading Value

Detector=Quasi Peak Detector or Average Detector

Lisn/ISN= Insertion loss of LISN

Ps_Lmt= Insertion loss of transient limiter (The transient limiter included 10dB attenuation)

Cab_L= cable loss

Result ($dB\mu V$) = Reading Value + Corrected Value

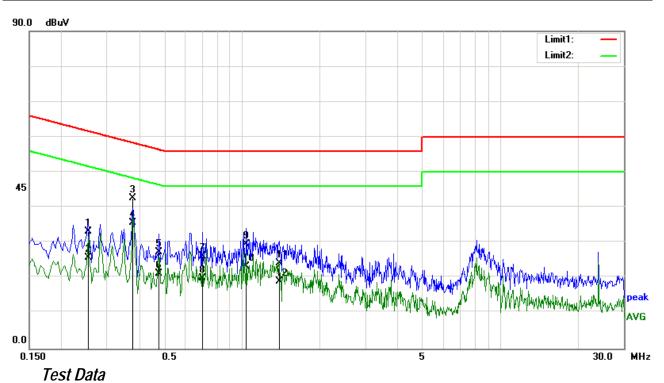
Limit (dB μ V) = Limit stated in standard

Calculation Formula:

Margin (dB) = Result (dB μ V) – limit (dB μ V)



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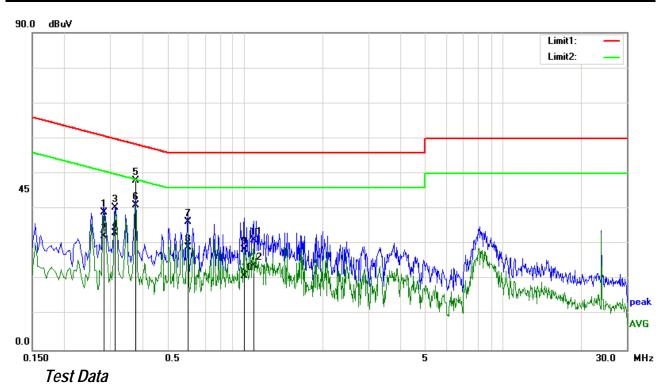


Phase Line Plot at 120Vac, 60Hz

	Thusbelliot lot at 120 vao, outle										
No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin		
	(MHz)	(dBµV)		(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.2540	22.82	QP	0.10	-10.00	0.20	33.12	61.63	-28.51		
2	0.2540	15.49	AVG	0.10	-10.00	0.20	25.79	51.63	-25.84		
3	0.3780	32.28	QP	0.11	-10.00	0.21	42.60	58.32	-15.72		
4	0.3780	25.45	AVG	0.11	-10.00	0.21	35.77	48.32	-12.55		
5	0.4780	17.07	QP	0.12	-10.00	0.21	27.40	56.37	-28.97		
6	0.4780	10.86	AVG	0.12	-10.00	0.21	21.19	46.37	-25.18		
7	0.7020	15.84	QP	0.13	-10.00	0.20	26.17	56.00	-29.83		
8	0.7020	9.66	AVG	0.13	-10.00	0.20	19.99	46.00	-26.01		
9	1.0420	19.21	QP	0.14	-10.00	0.19	29.54	56.00	-26.46		
10	1.0420	12.85	AVG	0.14	-10.00	0.19	23.18	46.00	-22.82		
11	1.3980	13.93	QP	0.15	-10.00	0.20	24.28	56.00	-31.72		
12	1.3980	8.64	AVG	0.15	-10.00	0.20	18.99	46.00	-27.01		



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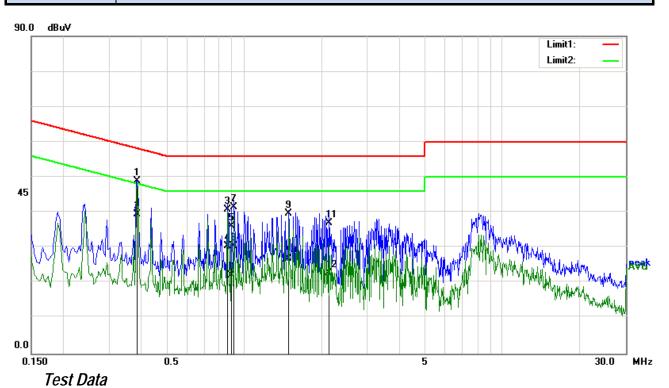


Phase Neutral Plot at 120Vac, 60Hz

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBµV)		(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)
1	0.2860	28.66	QP	0.10	-10.00	0.20	38.96	60.64	-21.68
2	0.2860	22.09	AVG	0.10	-10.00	0.20	32.39	50.64	-18.25
3	0.3140	30.01	QP	0.10	-10.00	0.20	40.31	59.86	-19.55
4	0.3140	22.88	AVG	0.10	-10.00	0.20	33.18	49.86	-16.68
5	0.3780	37.66	QP	0.11	-10.00	0.21	47.98	58.32	-10.34
6	0.3780	30.65	AVG	0.11	-10.00	0.21	40.97	48.32	-7.35
7	0.6020	25.94	QP	0.12	-10.00	0.21	36.27	56.00	-19.73
8	0.6020	18.83	AVG	0.12	-10.00	0.21	29.16	46.00	-16.84
9	0.9900	18.17	QP	0.13	-10.00	0.19	28.49	56.00	-27.51
10	0.9900	10.61	AVG	0.13	-10.00	0.19	20.93	46.00	-25.07
11	1.0780	20.85	QP	0.13	-10.00	0.20	31.18	56.00	-24.82
12	1.0780	13.54	AVG	0.13	-10.00	0.20	23.87	46.00	-22.13



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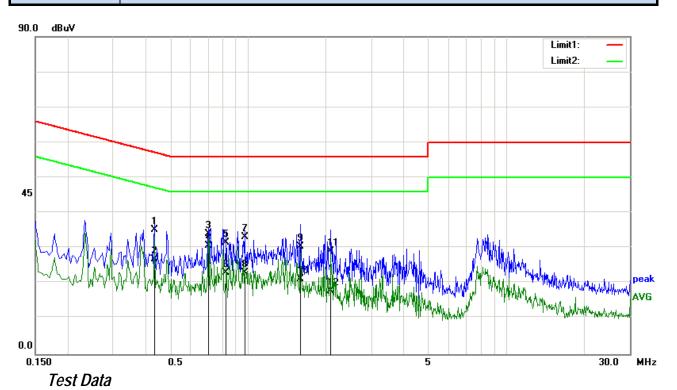


Phase Line Plot at 240Vac, 50Hz

	1 11000 21110 1 101 01 2 10 100 1 20112										
No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin		
	(MHz)	(dBµV)		(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)		
1	0.3860	38.66	QP	0.11	-10.00	0.21	48.98	58.15	-9.17		
2	0.3860	29.26	AVG	0.11	-10.00	0.21	39.58	48.15	-8.57		
3	0.8660	30.55	QP	0.14	-10.00	0.20	40.89	56.00	-15.11		
4	0.8660	20.25	AVG	0.14	-10.00	0.20	30.59	46.00	-15.41		
5	0.8940	25.85	QP	0.14	-10.00	0.19	36.18	56.00	-19.82		
6	0.8940	11.84	AVG	0.14	-10.00	0.19	22.17	46.00	-23.83		
7	0.9180	31.08	QP	0.14	-10.00	0.19	41.41	56.00	-14.59		
8	0.9180	20.13	AVG	0.14	-10.00	0.19	30.46	46.00	-15.54		
9	1.4940	29.35	QP	0.15	-10.00	0.20	39.70	56.00	-16.30		
10	1.4940	16.58	AVG	0.15	-10.00	0.20	26.93	46.00	-19.07		
11	2.1220	26.56	QP	0.16	-10.00	0.20	36.92	56.00	-19.08		
12	2.1220	12.53	AVG	0.16	-10.00	0.20	22.89	46.00	-23.11		



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Phase Neutral Plot at 240Vac, 50Hz

No.	Frequency	Reading	Detector	Lisn/Isn	Ps_Lmt	Cab_L	Result	Limit	Margin
	(MHz)	(dBµV)		(dB)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)
1	0.4340	24.89	QP	0.11	-10.00	0.21	35.21	57.18	-21.97
2	0.4340	16.66	AVG	0.11	-10.00	0.21	26.98	47.18	-20.20
3	0.7020	23.72	QP	0.12	-10.00	0.20	34.04	56.00	-21.96
4	0.7020	20.50	AVG	0.12	-10.00	0.20	30.82	46.00	-15.18
5	0.8260	21.25	QP	0.12	-10.00	0.20	31.57	56.00	-24.43
6	0.8260	12.84	AVG	0.12	-10.00	0.20	23.16	46.00	-22.84
7	0.9700	22.80	QP	0.13	-10.00	0.19	33.12	56.00	-22.88
8	0.9700	12.66	AVG	0.13	-10.00	0.19	22.98	46.00	-23.02
9	1.5980	20.07	QP	0.15	-10.00	0.20	30.42	56.00	-25.58
10	1.5980	10.90	AVG	0.15	-10.00	0.20	21.25	46.00	-24.75
11	2.0900	18.69	QP	0.17	-10.00	0.19	29.05	56.00	-26.95
12	2.0900	7.63	AVG	0.17	-10.00	0.19	17.99	46.00	-28.01



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6.3 20dB Occupied Bandwidth

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 06, 2017
Tested By:	Amos Xia

Requirement(s):			
Spec	Item	Requirement	Applicable
§15.231(c)	a)	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.	
	b)	For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.	
Test Setup		Spectrum Analyzer EUT	
Test Procedure	- - - - - N	Emission bandwidth measurement procedure Set RBW = 100 kHz. Set the video bandwidth (VBW) ≥3*RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the associated with the two outermost amplitude points (upper and lower finat are attenuated by 20 dB relative to the maximum level measured and amental emission.	requencies)
Remark			
Result	⊠Pas	s □Fail	
Test Data ⊠Yes Test Plot ⊠Yes		□N/A □N/A	

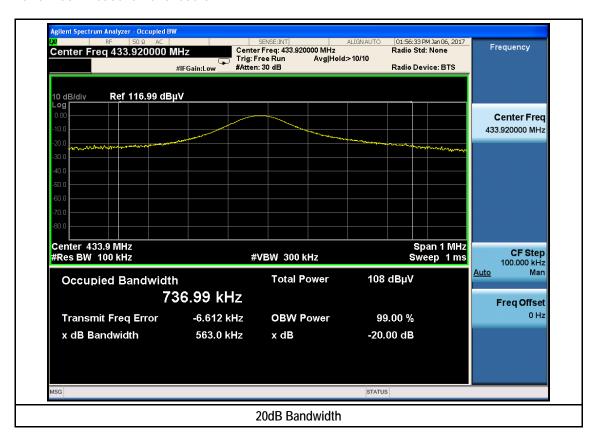


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20dB Bandwidth measurement result

Туре	Freq (MHz)	СН	Measured 20dB Bandwidth (kHz)	Limit (kHz)	Result
20dB BW	433.92	1 CH	563	1084.8	Pass

Test Plots 20dB Bandwidth measurement result





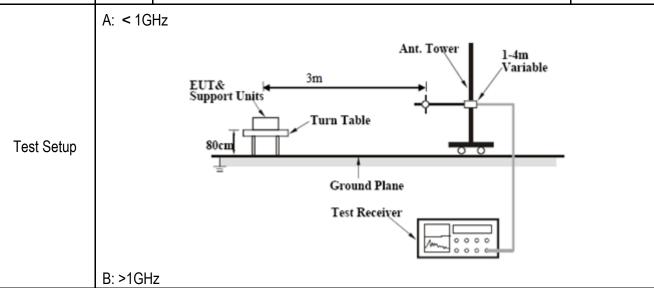
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6.4 Radiated Fundamental and Spurious Emission

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
Test date :	January 06, 2017
Tested By:	Amos Xia

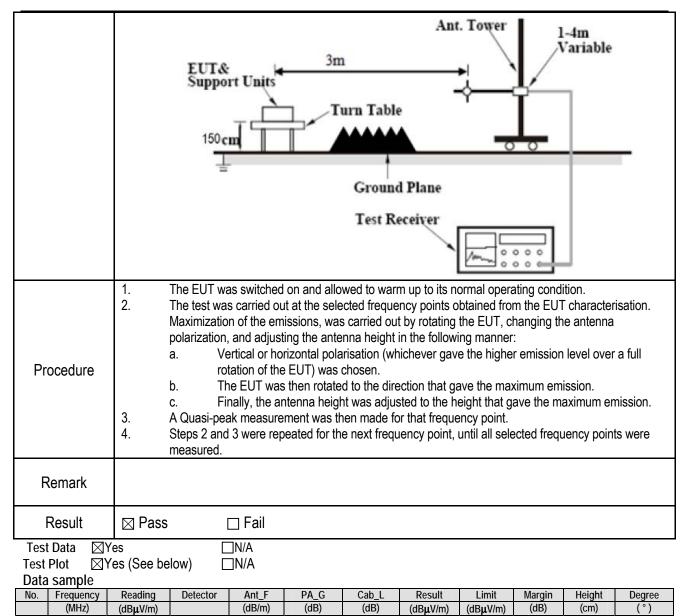
Requirement(s):

Spec	Item	Requirement											
§15.231(b)	a)	Except higher limit as spread low-power radio-frequer specified in the following exceed the level of the fedges Fundamental frequency (MHz) 40.66-40.70 70-130 130-174 174-260 260-470 Above 470	ricy devices shall not exceed a table and the level of any fundamental emission. The Field strength of fundamental (microvolts/meter) 2250 1250 1250 3750 3750-12500 12500	section, the emissions from the d the field strength levels unwanted emissions shall not tighter limit applies at the band Field strength of spurious emissions (microvolts/meter) 225 125 125 125 to 375 375 to 1250 1250 orst case is presented in the	Applicable								
		I Total 7 all 6 dixed flavo	sick dade to proceed that the										





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Frequency (MHz) = Emission frequency in MHz

Reading (dBμV/m) = Receiver Reading Value

Detector= Peak Detector or Quasi Peak Detector

Ant_F=Antenna Factor

PA_G=Pre-Amplifier Gain

Cab_L=Cable Loss

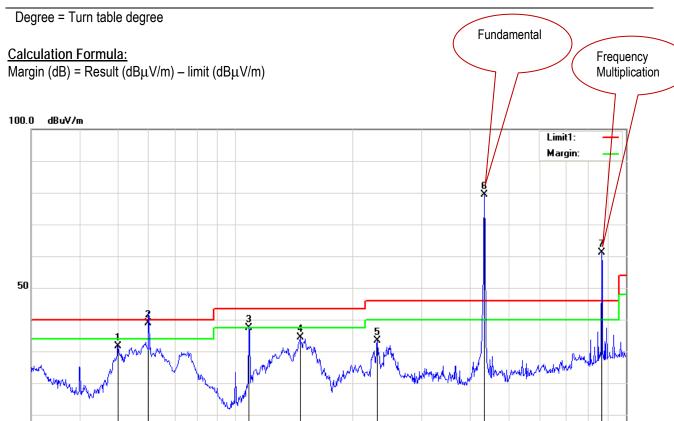
Result $(dB\mu V/m)$ = Read ing Value + Corrected Value

Limit ($dB\mu V/m$) = Limit stated in standard

Height (cm) = Height of Receiver antenna



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Field strength of fundamental Result

50

60

70 80

40

30.000

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
6	433.92	108.70	Pk	16.43	49.13	3.35	79.35	100.8	-21.45	100	116
6	433.92	-	Ave	-	-	-	70.71	80.8	-10.09	ı	-

Vertical Polarity Plot @3m

300

600 700

1000.0 MHz

Field strength of spurious emissions Result

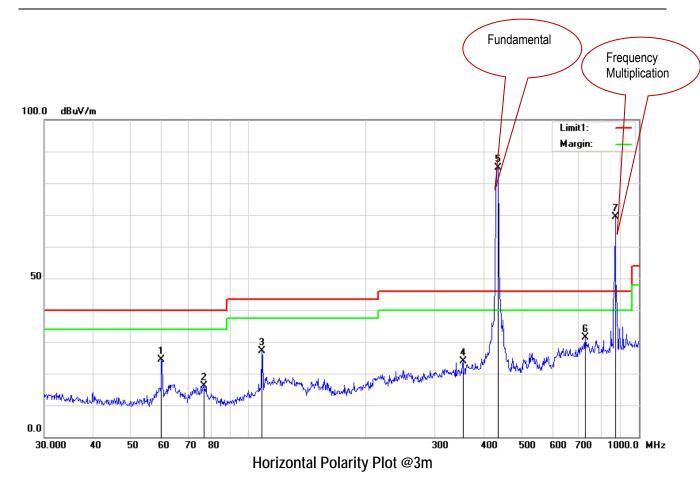
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
7	867.84	79.71	peak	22.95	46.19	4.75	61.22	80.8	-19.58	100	266
7	867.84	-	Ave	-	-	-	52.58	60.8	-8.22	•	-

Notes: Duty cycle is 37%, 20log (duty cycle) = -8.64dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading -8.64dB



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Field strength of fundamental Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
5	433.92	114.74	Pk	16.00	49.14	3.35	84.95	100.8	-15.85	200	115
5	433.92	-	Ave	-	-	-	76.31	80.8	-4.49	-	-

Field strength of spurious emissions Result

No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
7	867.84	87.94	Pk	22.79	46.12	4.76	69.07	80.8	-11.73	200	161
7	867.84	-	Ave	-	-	-	60.43	60.8	-0.37	-	-

Notes: Duty cycle is 37%, 20log (duty cycle) = -8.64dB correction was used to determine the average level from the peak reading.

Average = peak reading + 20log (duty cycle), Final Average= peak reading -8.64dB



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Spurious Emissions (< 1GHz) Measurement Result

Vertical Polarity Plot @3m

				V 01 t	icui i oic		0111				
No.	Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	50.0566	67.82	peak	9.04	46.45	1.25	31.66	40.00	-8.34	100	102
2	59.8588	77.00	QP	7.86	47.26	1.30	38.90	40.00	-1.10	100	140
3	108.2667	68.49	peak	13.40	46.29	1.68	37.28	43.50	-6.22	100	163
4	146.3735	66.80	peak	13.42	47.98	2.06	34.30	43.50	-9.20	100	102
5	230.9068	63.66	peak	14.88	47.55	2.42	33.41	46.00	-12.59	100	151

Horizontal Polarity Plot @3m

No.	Frequency	Reading	Detector	Ant F	PA G	Cab L	Result	Limit	Margin	Height	Degree
IVO.	- 1 1	Reaulity	Detector	_	FA_G	Cab_L	Result	LIIIII	iviai yiri	neigni	Degree
	(MHz)	(dBµV/m)		(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(cm)	(°)
1	59.8588	60.82	peak	9.49	47.26	1.30	24.35	40.00	-15.65	200	351
2	77.0505	52.70	peak	9.88	47.88	1.44	16.14	40.00	-23.86	200	360
3	108.2667	57.13	peak	14.50	46.29	1.68	27.02	43.50	-16.48	200	225
4	354.1831	53.13	peak	16.41	48.80	3.02	23.76	46.00	-22.24	200	137
6	729.3583	49.89	peak	22.58	45.46	4.34	31.35	46.00	-14.65	200	224

Notes:

- 1. Duty cycle is 37%, 20log (duty cycle) = -8.64dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), Final Average= peak reading -8.64dB
- 2. All the data measurement of peak values.
- 3. FCC Limit for Average Measurement= 41.67^* (433.92MHz)-7083.3333=10998.1131 μ V/m=80.8dB μ V/m
- 4. Average pulsed signal over one complete pulse train or 100 ms time frame if pulse train exceeds 100 ms
- 5. Maximum average in 100 ms
- 6. Calculate duty cycle for pulse train or 100 ms
- 7. Duty cycle = (t1 + t2 + t3+...tn)/T where tn = pulse width, T = pulse train length or 100 ms



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Spurious Emissions (> 1GHz) Measurement Result

Frequency GHz	Reading (dBµV/m)	Direction Degree	Height Meter	Polar H/V	Ant_F (dB/M)	PA_G (dB)	Cab_L (dB)	correct (dBµV/m)	FCC 15.231 Limit (dBµV/m)	Margin	Comments
1.300	76.88	154.00	2.00	Н	24.64	51.58	2.84	52.78	74.0	-21.22	Peak
1.300	-	-	-	Н	-	-	-	44.14	54.0	-9.86	Ave
1.735	72.82	245.00	2.00	Η	25.99	50.98	3.99	51.82	80.8	-28.98	Peak
1.735	-	•	•	Η	•	-	ı	43.18	60.8	-17.62	Ave
1.885	70.95	68.00	2.00	Ι	26.62	51.69	3.99	49.87	80.8	-30.93	Peak
1.885	-	ı	ı	Η	ı	-	ı	41.23	60.8	-19.57	Ave
2.170	69.51	235.00	2.00	Η	27.85	52.38	4.17	49.15	80.8	-31.65	Peak
2.170	-	-	•	Ι	-	-	1	40.51	60.8	-20.29	Ave
2.605	70.29	93.00	2.00	Ι	29.26	52.68	4.13	51.00	80.8	-29.80	Peak
2.605	-	•	•	Η	•	-	ı	42.36	60.8	-18.44	Ave
3.470	67.62	168.00	2.00	Η	32.01	52.88	4.91	51.66	80.8	-29.14	Peak
3.470	-	-	•	Ι	-	-	ı	43.02	60.8	-17.78	Ave
1.300	76.88	310.00	1.00	V	24.64	51.58	2.84	52.78	74.0	-21.22	Peak
1.300	-	-	-	V	ı	-	ı	44.14	54.0	-9.86	Ave
1.735	72.82	122.00	1.00	V	25.99	50.98	3.99	51.82	80.8	-28.98	Peak
1.735	-	•	•	V	•	-	ı	43.18	60.8	-17.62	Ave
2.170	70.83	221.00	1.00	V	27.85	52.38	4.17	50.47	80.8	-30.33	Peak
2.170	-	-	•	V	-	-	ı	41.83	60.8	-18.97	Ave
2.435	70.40	68.00	1.00	V	29.01	52.59	4.03	50.85	80.8	-29.95	Peak
2.435	-	-	-	V	-	-	-	42.21	60.8	-18.59	Ave
2.605	66.53	41.00	1.00	V	29.26	52.68	4.13	47.24	80.8	-33.56	Peak
2.605	-	-	-	V	-	-	•	38.60	60.8	-22.20	Ave
3.470	65.80	324.00	1.00	V	32.01	52.88	4.91	49.84	80.8	-30.96	Peak
3.470	-	-	-	V	-	-	-	41.20	60.8	-19.60	Ave

Note: Duty cycle is 37%, 20log (duty cycle) = -8.64dB correction was used to determine the average level from the peak reading. Average = peak reading + 20log (duty cycle), final Average= peak reading -8.64dB

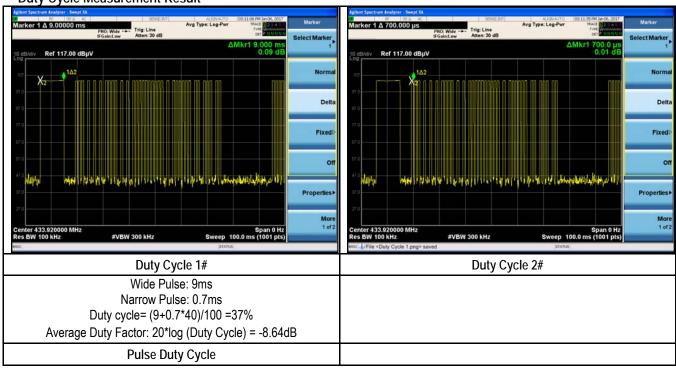
Note:

Narrow Pulse: 0.7ms 2/NP = 2/0.7ms = 2.86 kHz RBW > 2/NP (2.86 kHz) Therefore PDCF is not needed.



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Duty Cycle Measurement Result





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6.5 Deactivation

Temperature

Relative Humidity

Atmospheric Pressure			1019mbar					
Test date :			January 06, 2017					
Tested By :		,	Amos Xia					
Requirement(s):	Requirement(s):							
Spec	Item	Requirement		Applicable				
§15.231 (a)(1)	a)		smitter shall employ a switch that will he transmitter within not more than 5 ⊠d.					
Test Setup		Spectrum Analyzer	EUT					
- Set the span to 0Hz Set the VBW ≥ 3 ′ RBW - Detector = peak Sweep time = auto coup - Trace mode = max hold.		Set analyzer center frequency Set the span to 0Hz. Set the VBW ≥ 3 ′ RBW.	to channel center frequency.					
Remark								
Result	⊠ Pass	s <u></u> Fail						
Test Data ☐Yes ☐N/A Test Plot ☐Yes (See below) ☐N/A								

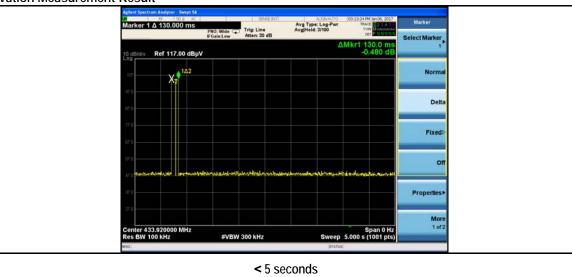
25°C

50%



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Test Plots Deactivation Measurement Result





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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use		
AC Line Conducted Emissions							
R&S EMI Test Receiver	ESPI3	101216	03/31/2016	03/31/2017	\boxtimes		
V-LISN	ESH3-Z5	838979/005	03/31/2016	03/31/2017	\boxtimes		
SIEMIC EZ_EMC software Conducted Emissions	Ver.ICP-03A1	N/A	N/A	N/A	\boxtimes		
RF conducted test							
R&S EMI Receiver	ESPI3	101216	03/31/2016	03/31/2017	\boxtimes		
Radiated Emissions							
Agilent Technologies Spectrum Analyzer	N9010A	MY47191130	03/11/2016	03/10/2017	\boxtimes		
R&S EMI Receiver	ESPI3	101216	03/31/2016	03/31/2017			
Antenna (30MHz~6GHz)	JB6	A121411	10/31/2016	10/31/2017	\boxtimes		
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2016	10/08/2017	\boxtimes		
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2016	10/26/2017	\boxtimes		
Pre-Amplifier	8449B	3008A02224	10/30/2016	10/30/2017	\boxtimes		
SIEMIC EZ_EMC software Radiated Emissions	Ver.ICP-03A1	N/A	N/A	N/A			



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photos



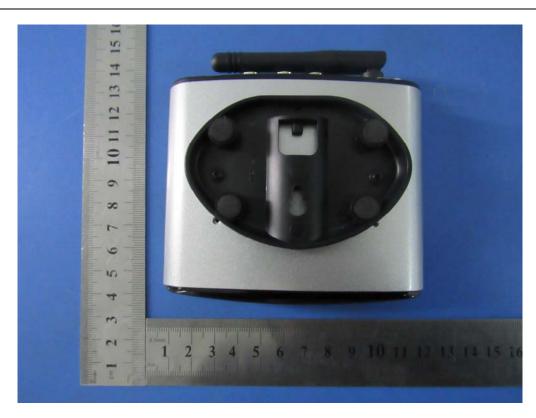
All Packages Front View



Top View of EUT



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Bottom View of EUT



Front View of EUT



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2.4G Antenna



Rear View of EUT



Left View of EUT



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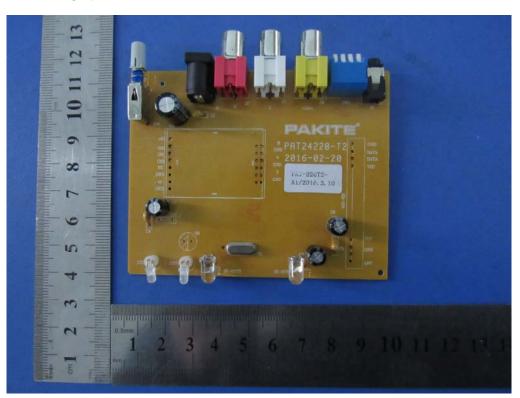


Right View of EUT

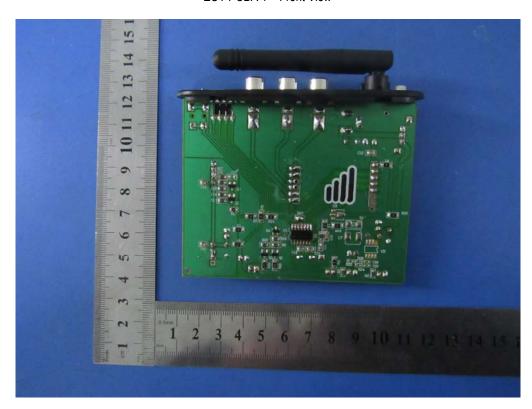


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Annex B.ii. Photograph EUT Internal Photos



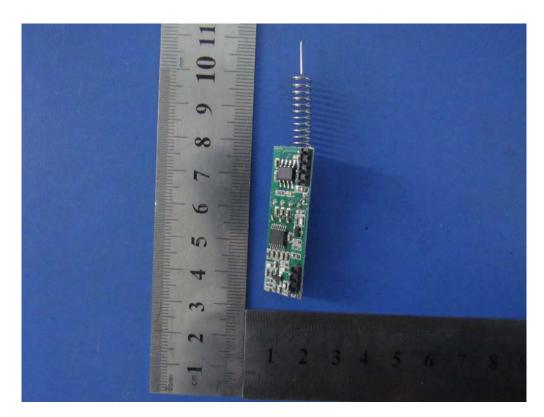
EUT PCBA 1 - Front View



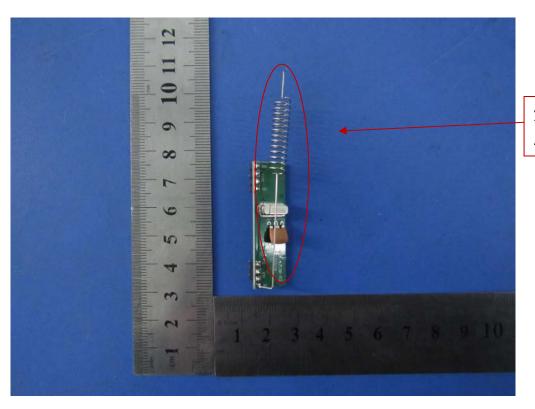
EUT PCBA 1 - Rear View



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EUT PCBA 2 - Front View

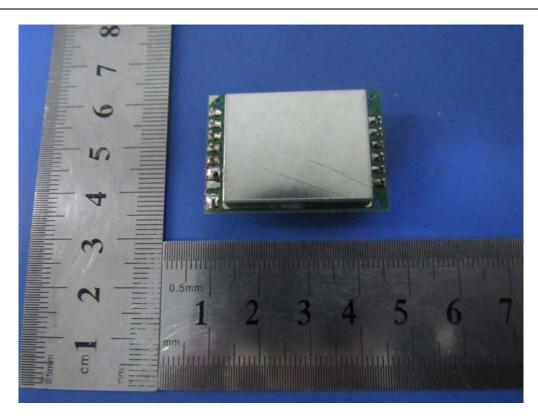


EUT PCBA 2 - Rear View

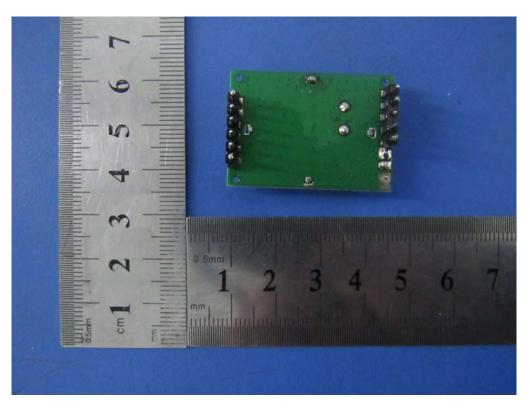
433MHz Transmitting Antenna



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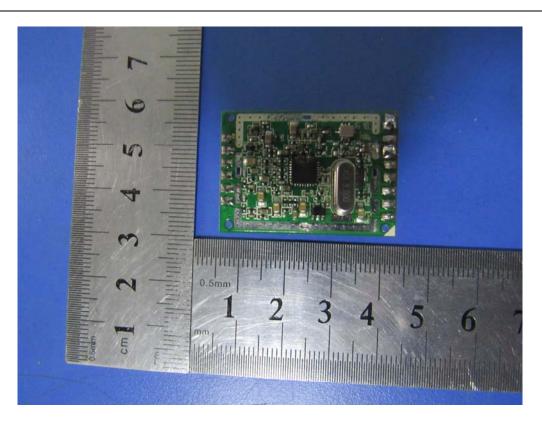
2.4G Module Front View



2.4G Module Rear View



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2.4G Module Shielding off Front View



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Annex B.iii. Photograph: Test Setup Photo



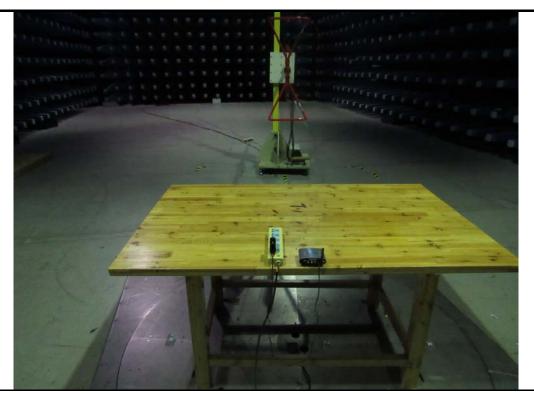
Conducted Emissions Test Setup Front View



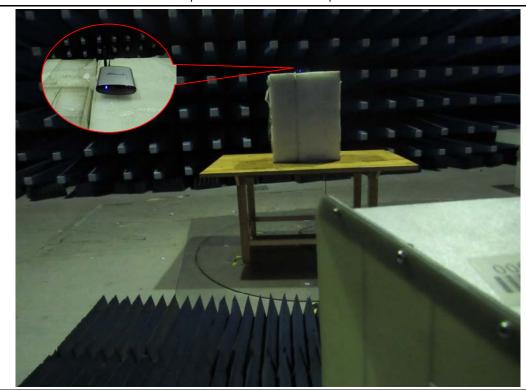
Conducted Emissions Test Setup Side View



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Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

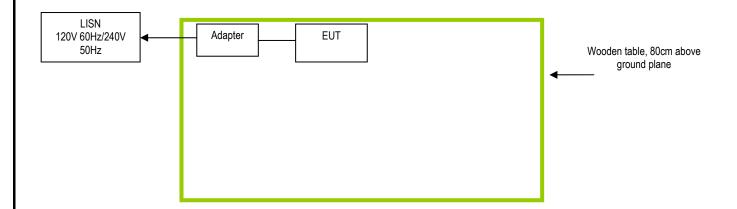


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

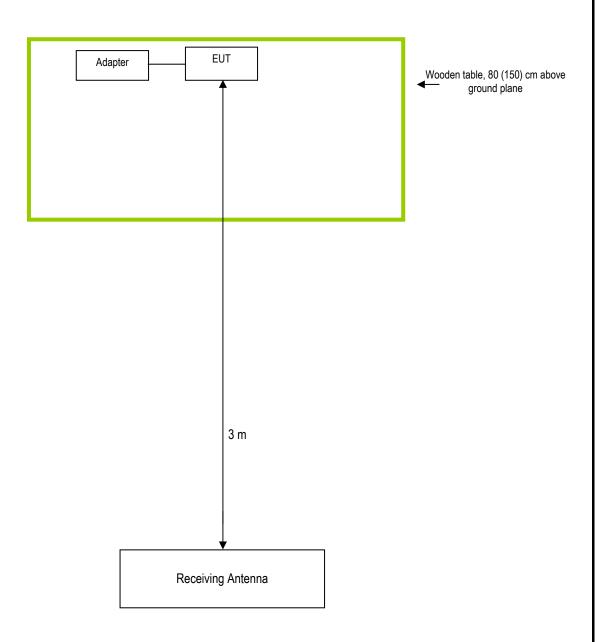
Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions





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Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	
N/A	N/A	N/A	

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
Power Cable	Un-shielding	No	0.8m	N/A



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

Date:2016-12-20

To: SIEMIC, INC. 775 Montague Expressway, Milpitas, CA 95035 USA

Statement

FCC ID: 2ABU5-433IRREMOTE

Model number: PAT-220 \ PAT-240 \ PAT-260 \ PAT-280 \ PAT-330 \

PAT-350、PAT-360、PAT-370、PAT-380、

We hereby state that these models are identical in , electrical circuits and components, and just model names and appearance of the product shell color, antenna appearance, are different for the marketing requirement.

The following model is the "wireless av sender with IR remote control"

PAT-220, silver shell, dual antenna gain 2dB

PAT-240, black shell, dual antenna gain 2dB

AT-260, black shell, dual antenna gain 2dB

AT-280, bright black shell , dual antenna gain 2dB

The following model is the "wireless av sender without IR remote control"

PAT-330, silver shell, dual antenna gain 2dB

PAT-350, black shell, dual antenna gain 2dB

PAT-360, black shell, dual antenna gain 2dB

PAT-370, black shell, dual antenna gain 2dB

PAT-380, black shell, dual antenna gain 2dB

Shenzhen Pakite Technology Co.,Ltd. www.pakite.com



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Your assistance on this matter is highly appreciated. Sincerely,

Signature: PEIZHEN WM

Name : PEIZHEN WU

Title: General Manager

Company Name: SHENZHEN PAKITE TECHNOLOGY CO.,LTD.

Address: 12 Floor, Building, 2 Reservoir Avenue, Nankeng Community, Bantian Street Longgang

Distrct ,Shenzhen, China.

Telephone: +86-755-83366901

Fax No.: +86-755-83366910