RF TEST REPORT



Report No.: Q190313S002-FCC-R

Supersede Report No.: N/A

Applicant Remote Solution Co., Ltd.		
REMOTE CONTROL UNIT		
PUCK2		
RD15A		
FCC Part 1	5.247, ANSI C63.10: 2013	
April 09 to	12, 2019	
April 19, 2019		
t Pass Fail		
Equipment complied with the specification		
Equipment did not comply with the specification		
Agran Lional David Huang		
ang neer	David Huang Checked By	
	REMOTE OF PUCK2 RD15A FCC Part 1 April 09 to April 19, 20 Pass ied with the stromply with	REMOTE CONTROL UNIT PUCK2 RD15A FCC Part 15.247, ANSI C63.10: 2013 April 09 to 12, 2019 April 19, 2019 Pass Fail ied with the specification t comply with the specification David Huang David Huang

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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Accreditations for Conformity Assessment

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



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
Q190313S002-FCC-R	NONE	Original	April 19, 2019

2. Customer information

Applicant Name	Remote Solution Co., Ltd.
Applicant Add	92, Chogokri, Nammyun, Kimchon City, Kyungbuk, South Korea, 740-871
Manufacturer	Remote Solution Co., Ltd.
Manufacturer Add	92, Chogokri, Nammyun, Kimchon City, Kyungbuk, South Korea, 740-871

3. Test site information

Test Lab A:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
Lab Address	South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China
	518108
FCC Test Site No.	535293
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

Test Lab B:

Lab performing tests	Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories
	No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City,
Lab Address	Guangdong 523942, China
FCC Test Site No.	749762
IC Test Site No.	5936A-1
Test Software	ADT_Radiated_V7.6.15.9.2

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



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4. Equipment under Test (EUT) Information

- Equipment ander	
Description of EUT:	REMOTE CONTROL UNIT
Main Model:	PUCK2
Serial Model:	RD15A
Date EUT received:	March 26, 2019
Test Date(s):	April 09 to 12, 2019
Equipment Category :	DTS
Antenna Gain:	5.54dBi
Antenna Type:	Chip antenna
Type of Modulation:	BLE: GFSK
RF Operating Frequency (ies):	BLE: 2402-2480 MHz
Max. Output Power:	7.584dBm
Number of Channels:	BLE: 40CH
Port:	Please refer to user's manual
Trade Name :	N/A

Battery:

Spec: DC 3V

TX4RD15A

Input Power:

FCC ID:



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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
§15.247 (a)(2)	DTS (6 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance
\$10.247 (d)	Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions N/A	
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions	Compliance
§15.247(d)	into Restricted Frequency Bands	

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band-Edge & Unwanted		
Emissions into Restricted	Emissions into Restricted	
Frequency Bands and	Confidence level of approximately 95% (in the case	
Radiated Emissions &	where distributions are normal), with a coverage	+5.6dB/-4.5dB
Unwanted Emissions	factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	
into Restricted Frequency		
Bands		
-	- -	-



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6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antenna:

A permanently attached Chip antenna for BLE, the gain is 5.54dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 DTS (6 dB) Channel Bandwidth

Temperature	26°C	
Relative Humidity	55%	
Atmospheric Pressure	1010mbar	
Test date :	April 09, 2019	
Tested By :	Aaron Liang	

Spec	Item	Item Requirement Applic		
§ 15.247(a)(2)	a)	a) 6dB BW≥ 500kHz;		
RSS Gen(4.6.1)	b)	99% BW: For FCC reference only; required by IC.	V	
Test Setup	Spectrum Analyzer EUT			
Test Procedure	Spectrum Analyzer 558074 D01 DTS MEAS Guidance v03r03, 8.1 DTS bandwidth 6dB 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 frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.			
Remark				
Result	Pas	ss Fail		

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



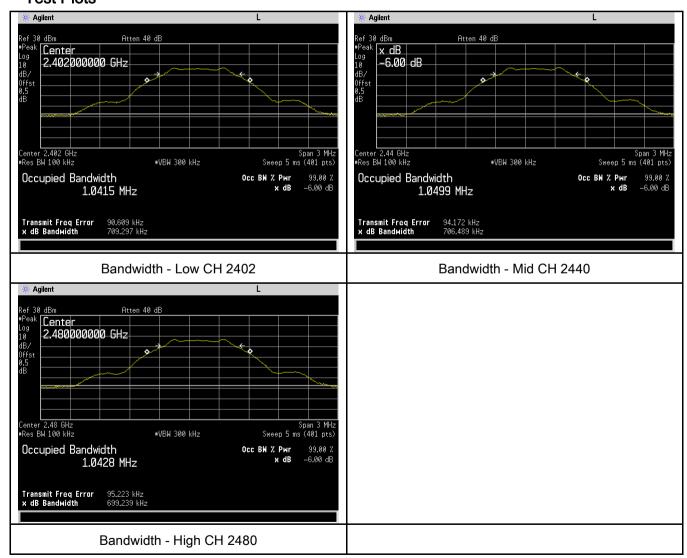
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6dB Bandwidth measurement result

Test Data

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	709.297	1.0415
Mid	2440	706.489	1.0499
High	2480	699.239	1.0428

Test Plots





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6.3 Maximum Output Power

Temperature	26°C
Relative Humidity	55%
Atmospheric Pressure	1010mbar
Test date :	April 09, 2019
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable				
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt					
	b)	b) FHSS in 5725-5850MHz: ≤ 1 Watt					
§15.247(b) (3),RSS210	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.					
(A8.4)	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt					
(1011)	e)	FHSS in 902-928MHz with ≥ 25 & <50 channels: ≤ 0.25 Watt					
	f)	DTS in 902-928MHz, 2400-2483.5MHz: ≤ 1 Watt	V				
Test Setup		Spectrum Analyzer EUT					
	558074	D01 DTS MEAS Guidance v03r03, 9.1.2 Integrated band power meth	od				
	Maximum output power measurement procedure						
	a) Set th	a) Set the RBW ≥ DTS bandwidth.					
_	b) Set VBW ≥ 3 × RBW.						
Test	c) Set span ≥ 3 x RBW						
Procedure	d) Sweep time = auto couple.						
	e) Detector = peak.						
	f) Trace mode = max hold.						
	g) Allow trace to fully stabilize.						
	h) Use p	eak marker function to determine the peak amplitude level.					
Remark							
Result	Pas	s Fail					



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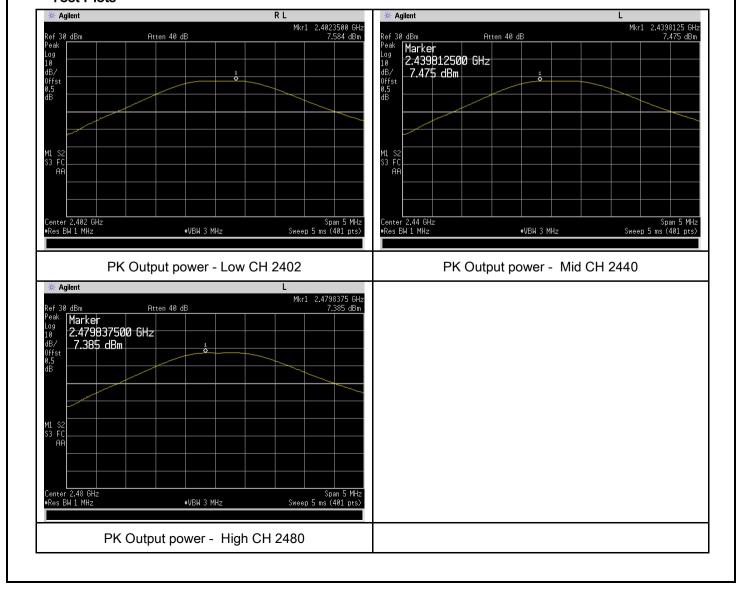
Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

Output Power measurement result

Test Data

Туре	СН	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	7.584	30	Pass
Output	Mid	2440	7.475	30	Pass
power	High	2480	7.385	30	Pass

Test Plots





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6.4 Power Spectral Density

Temperature	26°C
Relative Humidity	55%
Atmospheric Pressure	1010mbar
Test date :	April 09, 2019
Tested By :	Aaron Liang

Spec	Item	Requirement	Applicable		
§15.247(e)	a)	a) The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.			
Test Setup		Spectrum Analyzer EUT			
Test Procedure		D01 DTS MEAS Guidance v03r03, 10.2 power spectral density measurement procedure a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz. d) Set the VBW ≥ 3 × RBW. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude the RBW. j) If measured value exceeds limit, reduce RBW (no less than 3 kHz)	de level within		
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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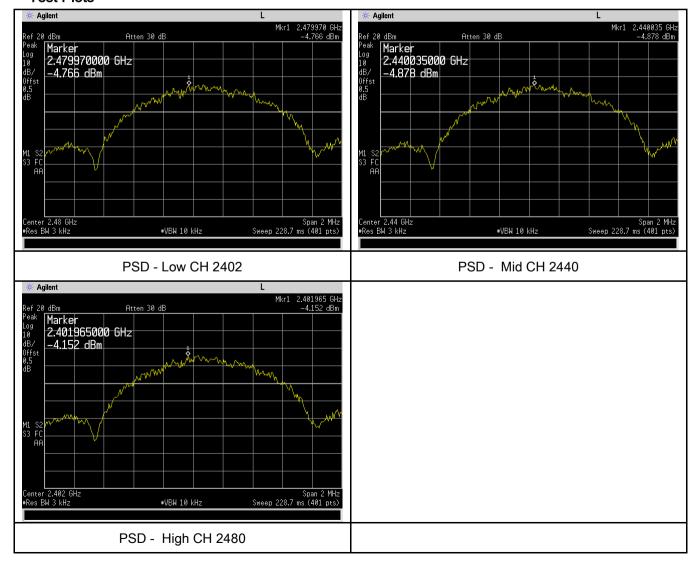
Power Spectral Density measurement result

Test Data

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-4.766	-5.23	-9.996	8	Pass
PSD	Mid	2440	-4.878	-5.23	-10.108	8	Pass
	High	2480	-4.152	-5.23	-9.382	8	Pass

Note: factor=10log(3/10)=-5.23

Test Plots





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6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	27°C
Relative Humidity	59%
Atmospheric Pressure	1015mbar
Test date :	April 03, 2019
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.		N. C.
Test Setup	Ant. Tower Support Units Ground Plane Test Receiver		
Test Procedure	Radiated Method Only		



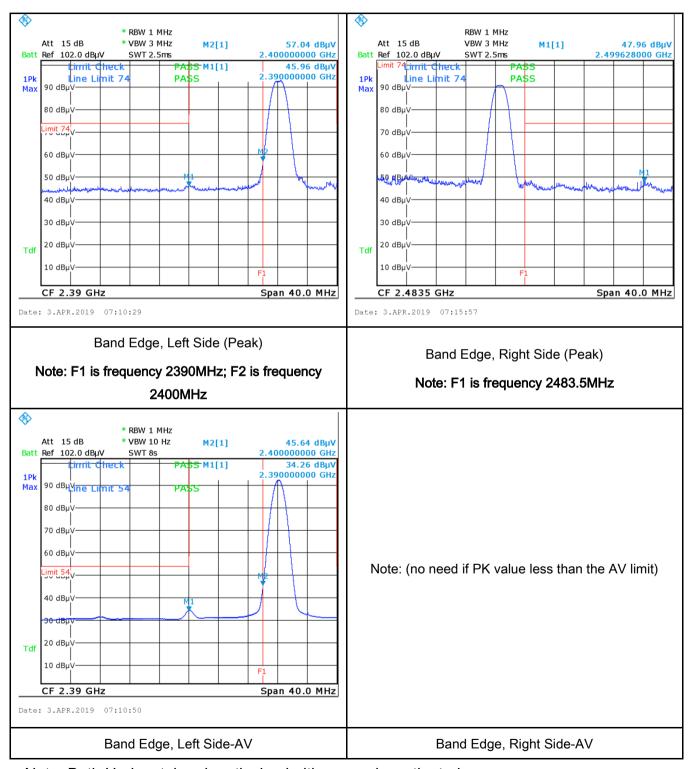
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		- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a
		convenient frequency span including 100kHz bandwidth from band edge, check
		the emission of EUT, if pass then set Spectrum Analyzer as below:
		a. The resolution bandwidth and video bandwidth of test receiver/spectrum
		analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
		b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video
		bandwidth is 3MHz with Peak detection for Peak measurement at frequency above
		1GHz.
		c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the
		video bandwidth is 10Hz with Peak detection for Average Measurement as below
		at frequency above 1GHz.
		- 4. Measure the highest amplitude appearing on spectral display and set it as a
		reference level. Plot the graph with marking the highest point and edge frequency.
		- 5. Repeat above procedures until all measured frequencies were complete.
Remark		
Result		Pass Fail
	•	
Test Data	Ye	es EN/A
Test Plot	Ye	s (See below)



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Test Plots Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated.



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6.6 AC Power Line Conducted Emissions

Temperature	
Relative Humidity	
Atmospheric Pressure	
Test date :	
Tested By:	

Requirement(s):

Spec	Item	Requirement			Applicable
47CFR§15. 207, RSS210	For Low-power radio-frequency devices that is designed to connected to the public utility (AC) power line, the radio frequency or frequencies, within the band 150 kHz to 30 M			the radio frequency ower line on any kHz to 30 MHz, shall measured using a 50 network (LISN). The	
(A8.1)		Frequency ranges	Limit (dBμV)	
(710.1)		(MHz)	QP	Average	
		0.15 ~ 0.5	66 – 56	56 – 46	
		0.5 ~ 5	56	46	
		5 ~ 30	60	50	
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. 1. The EUT and supporting equipment were set up in accordance with the requirements of				
		standard on top of a 1.5	•		94.10111011001
Procedure		•	_		onnected to
	 E 2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss 				
				a low-loss	



Test Plot Yes (See below)

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	coaxial cable.		
	4. All other supporting equipment were powered separately from another main supply.		
	5. The EUT was switched on and allowed to warm up to its normal operating condition.		
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)		
	over the required frequency range using an EMI test receiver.		
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the		
	selected frequencies and the necessary measurements made with a receiver bandwidth		
	setting of 10 kHz.		
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).		
Remark	The EUT was powered by battery.		
Result	Pass Fail N/A		
F	L		
Test Data	Yes N/A		



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6.7 Radiated Emissions & Restricted Band

Temperature	27°C
Relative Humidity	59%
Atmospheric Pressure	1015mbar
Test date :	April 03, 2019
Tested By :	Aaron Liang

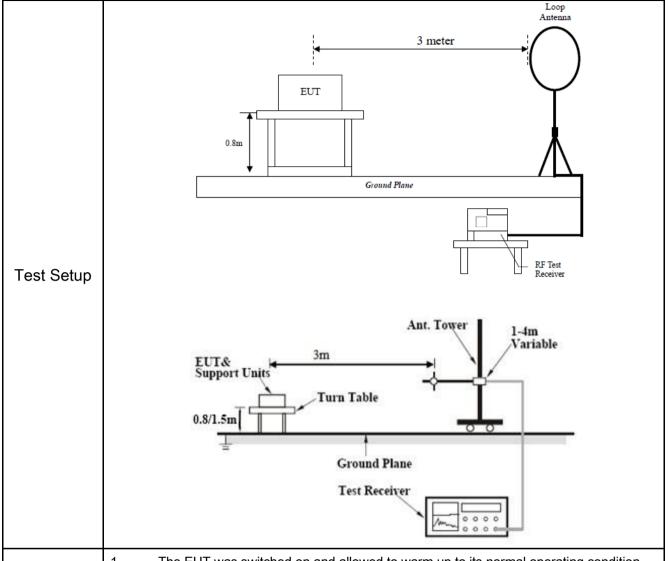
Requirement(s):

Spec	Item	Requirement	Applicable				
		Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges					
	- \	Frequency range (MHz)	Field Strength (μV/m)				
	a)	0.009~0.490	2400/F(KHz)	V			
		0.490~1.705	24000/F(KHz)				
		1.705~30.0	30				
		30 – 88	100				
47CFR§15.		88 – 216	150				
247(d),		216 960	200				
RSS210		Above 960	500				
(A8.5)	b)	For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is oppower that is produced by the inter 20 dB or 30dB below that in the 10 band that contains the highest level determined by the measurement mused. Attenuation below the general is not required	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the of the desired power, sethod on output power to be all limits specified in § 15.209(a)	V			
	c)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209					



Procedure

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- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - The EUT was then rotated to the direction that gave the maximum b. emission.
 - Finally, the antenna height was adjusted to the height that gave the maximum C. emission.
- 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.



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	The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video
	bandwidth is 10Hz with Peak detection for Average Measurement as below at
	frequency above 1GHz.
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency
	points were measured.
Remark	
Result	Pass Fail
Test Data	Yes N/A
Test Plot	Yes (See below) N/A

Test Result:

Test Mode:	Transmitting Mode
------------	-------------------

Frequency range: 9KHz - 30MHz

Freq.	Detection	Factor	Factor Reading Result		Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

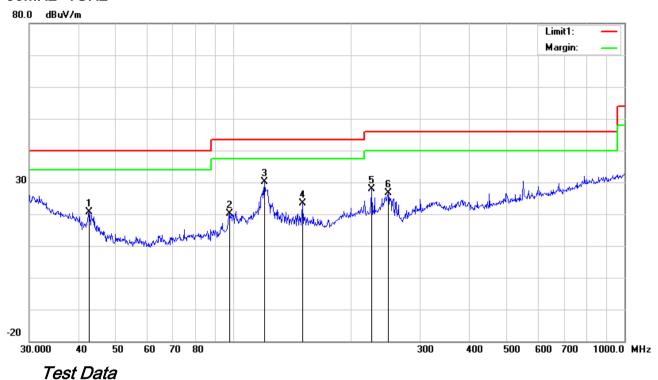
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Transmitting Mode

30MHz -1GHz



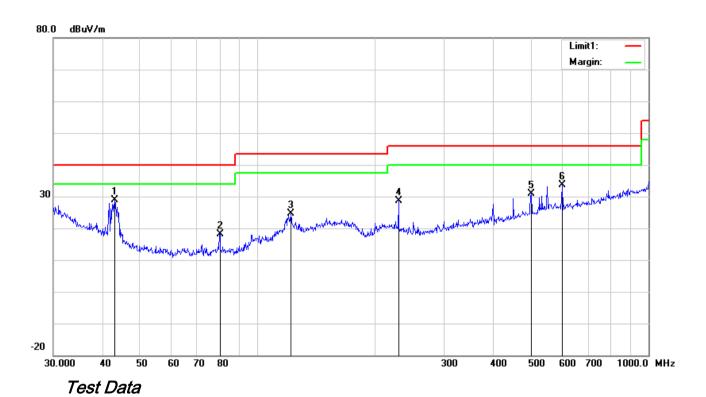
Horizontal Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	I	42.7496	29.98	12.09	22.29	0.77	20.55	40.00	-19.45	100	89
2	Н	97.7983	31.60	9.87	22.32	1.06	20.21	43.50	-23.29	200	342
3	Н	119.8556	37.47	13.87	22.36	1.16	30.14	43.50	-13.36	100	226
4	Н	150.0108	31.83	12.60	22.34	1.34	23.43	43.50	-20.07	100	311
5	Н	225.3080	36.91	11.75	22.33	1.62	27.95	46.00	-18.05	100	219
6	Н	248.5519	35.81	11.42	22.29	1.70	26.64	46.00	-19.36	100	55



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30MHz -1GHz



Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	43.0505	38.59	11.89	22.29	0.77	28.96	40.00	-11.04	100	64
2	٧	80.0806	31.90	7.60	22.42	1.05	18.13	40.00	-21.87	100	244
3	٧	121.5486	32.02	13.80	22.36	1.17	24.63	43.50	-18.87	100	82
4	٧	229.2931	37.75	11.69	22.33	1.63	28.74	46.00	-17.26	100	80
5	V	501.1790	32.58	17.72	21.81	2.42	30.91	46.00	-15.09	100	20
6	V	601.4265	33.68	19.12	21.58	2.49	33.71	46.00	-12.29	100	49



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Above 1GHz

Test Mode: Transmitting Mode

Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4804	47.78	AV	V	33.39	7.22	48.46	39.93	54	-14.07
4804	46.6	AV	Н	33.39	7.22	48.46	38.75	54	-15.25
4804	69.47	PK	V	33.39	7.22	48.46	61.62	74	-12.38
4804	64.64	PK	Н	33.39	7.22	48.46	56.79	74	-17.21
11000	38.99	AV	V	39.88	8.78	46.8	40.85	54	-13.15
11000	35.01	AV	Н	39.88	8.78	46.8	36.87	54	-17.13
11000	51.62	PK	V	39.88	8.78	46.8	53.48	74	-20.52
11000	59.33	PK	Н	39.88	8.78	46.8	61.19	74	-12.81

Middle Channel (2440 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4880	42.23	AV	V	33.62	7.53	48.36	35.02	54	-18.98
4880	45.42	AV	Н	33.62	7.53	48.36	38.21	54	-15.79
4880	69.86	PK	V	33.62	7.53	48.36	62.65	74	-11.35
4880	65.43	PK	Н	33.62	7.53	48.36	58.22	74	-15.78
7399	46.14	AV	V	37.69	7.74	49.21	42.36	54	-11.64
7399	42.88	AV	Н	37.69	7.74	49.21	39.1	54	-14.9
7399	63.66	PK	V	37.69	7.74	49.21	59.88	74	-14.12
7399	63.55	PK	Н	37.69	7.74	49.21	59.77	74	-14.23



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High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4960	45.27	AV	V	33.89	7.86	48.31	38.71	54	-15.29
4960	47.04	AV	Н	33.89	7.86	48.31	40.48	54	-13.52
4960	65.99	PK	V	33.89	7.86	48.31	59.43	74	-14.57
4960	64.5	PK	Н	33.89	7.86	48.31	57.94	74	-16.06
17830	24.17	AV	V	42.59	18.48	44.71	40.53	54	-13.47
17830	24.56	AV	Н	42.59	18.48	44.71	40.92	54	-13.08
17830	41.11	PK	V	42.59	18.48	44.71	57.47	74	-16.53
17830	41.54	PK	Н	42.59	18.48	44.71	57.9	74	-16.1

Note:

- 1, The testing has been conformed to 10*2480MHz=24,800MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
- 4, The radiated spurious test above 18GHz is subcontracted to Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch Laboratories and found 30dB below the limit at least.



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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due		
AC Line Conducted Emissions	AC Line Conducted Emissions					
EMI test receiver	ESCS30	8471241027	01/04/2019	01/03/2020		
Artificial Mains Network	8127	8127713	01/04/2019	01/03/2020		
ISN	ISN T800	34373	01/04/2019	01/03/2020		
Radiated Emissions						
EMI test receiver	ESL6	1300.5001K06- 100262-eQ	01/04/2019	01/03/2020		
Active Antenna	AL-130	121031	02/07/2019	02/06/2020		
3m Semi-anechoic Chamber	9m*6m*6m	N/A	10/18/2018	10/17/2019		
Signal Amplifier	8447E	443008	01/24/2019	01/23/2020		
MXA signal analyzer	N9020A	MY49100060	01/04/2019	01/03/2020		
Horn Antenna	HAH-118	71259	01/25/2019	01/24/2020		
Horn Antenna	HAH-118	71283	02/01/2019	01/31/2020		
AMPLIFIER	EM01G26G	60613	01/24/2019	01/23/2020		
AMPLIFIER	Emc012645	980077	01/04/2019	01/03/2020		
Bilog Antenna (30MHz~6GHz)	JB6	A110712	02/07/2019	02/06/2020		
RF Conducted						
DC Power Supply	E3640A	MY40004013	01/04/2019	01/03/2020		
MXA Signal Analyzer	N9020A	MY49100060	01/04/2019	01/03/2020		
MXG Vector Signal Generator	N5182A	MY50140530	01/04/2019	01/03/2020		
Series Signal Generator	E4421B	US40051152	05/12/2018	05/11/2019		
RF control unit	JS0806-0806- 2	188060112	04/25/2018	04/24/2019		
Wireless Connectivity Tester	CMW270	1201.0002K75- 101601-PE	04/25/2018	04/24/2019		
Weinschel	1580-1	TL177	01/04/2019	01/03/2020		
Universal Radio Communica	CMU200	121393	02/10/2019	02/09/2020		

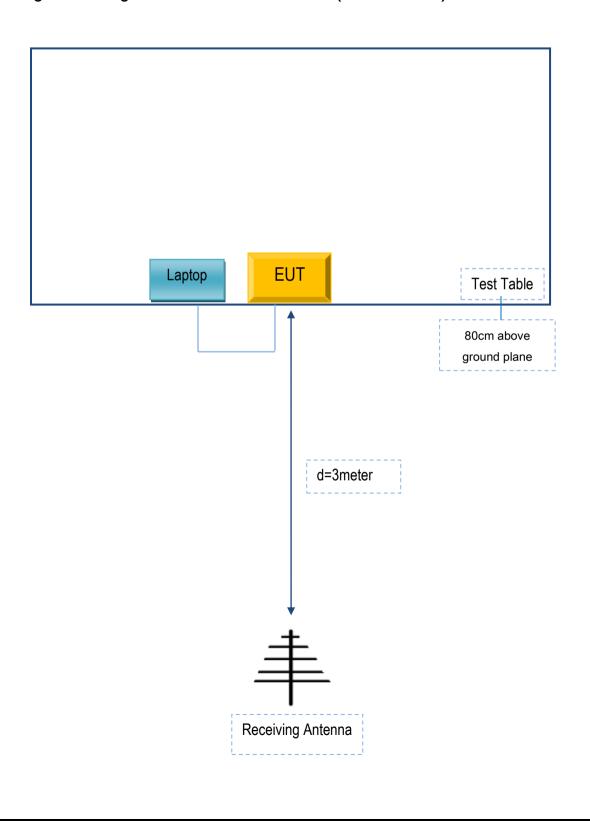


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Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Annex B.i. TEST SET UP BLOCK

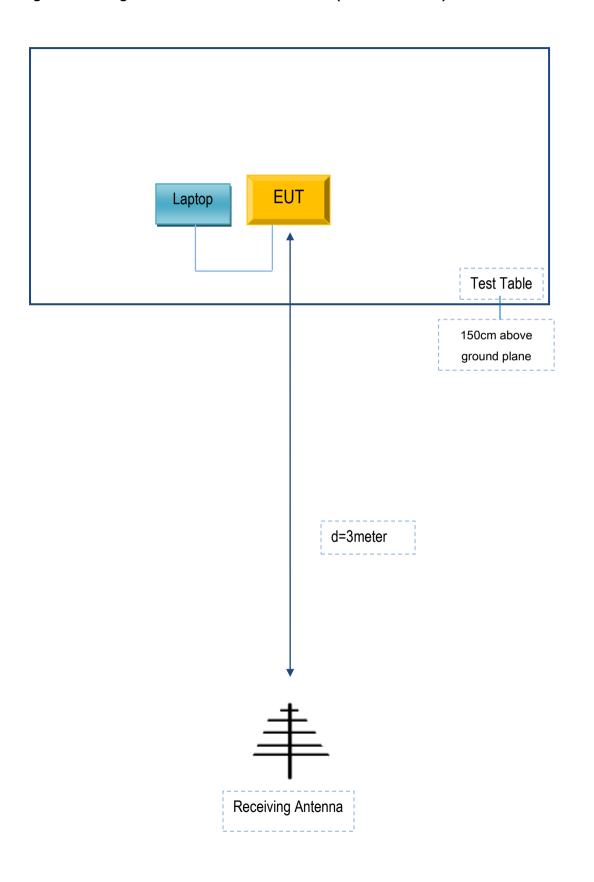
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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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.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No	
Lenovo	Laptop	E40	N/A	

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
-	-	-	-	-



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

Please see the attachment



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Annex D. DECLARATION OF SIMILARITY

REMOTE SOLUTION.CO,.LTD

To: SIEMIC.INC

775 Montague Expressway Mlpitas, CA 95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list serial model numbers on the FCC reports, as following:

Model No: PUCK2, RD15A

Serial Model No: PUCK2, RD15A

We declare that : PUCK2, RD15A, all models the same PCB, accessories ,the difference of these is listed as

below:

Main Model No	Serial Model No	Difference
PUCK2	RD15A	Model

Thank you!

Sincerely,

Client's signature: BC, Kim

Second Party

Address: 92, Chogokri, Nammyun, Kimchon City, Kyungbuk, South Korea, 740-871

Name of Corporation: Remote Solution Co., Ltd.

Name: Byung-Cheol Kim Name: Date: 2019-4-21