## RF TEST REPORT



Report No.: Q181203S001-FCC-R

Supersede Report No.: N/A

Applicant	Remote Solution Co., Ltd.		
Product Name	REMOTE CONTROL UNIT		
Model No.	Nagra		
Serial No.	RC98XBB (	X stands for A~Z, BB stands	for 00~99)
Test Standard	FCC Part 15	5.247, ANSI C63.10: 2013	
Test Date	January 03	to 04 , 2019	
Issue Date	January 04, 2019		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Jaron Lia		David Huang	
Aaron Liang Test Engineer		David Huang Checked By	

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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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Test Report No.	Q181203S001-FCC-R
Page	2 of 33

## **Laboratories Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



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**

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



Test Report No.	Q181203S001-FCC-R
Page	3 of 33

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Test Report No.	Q181203S001-FCC-R
Page	4 of 33

## **CONTENTS**

1.	REPORT REVISION HISTORY	5
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	5
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5.	TEST SUMMARY	7
<b>3</b> .	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	8
6.1	ANTENNA REQUIREMENT	8
6.2	DTS (6 DB) CHANNEL BANDWIDTH	9
6.3	MAXIMUM OUTPUT POWER	12
6.4	POWER SPECTRAL DENSITY	14
6.5	BAND-EDGE & UNWANTED EMISSIONS INTO RESTRICTED FREQUENCY BANDS	16
6.6	AC POWER LINE CONDUCTED EMISSIONS	19
6.7	RADIATED EMISSIONS & RESTRICTED BAND	21
ANI	NEX A. TEST INSTRUMENT	28
ANI	NEX B. TEST SETUP AND SUPPORTING EQUIPMENT	29
ANI	NEX C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	32
ΔΝΙ	NEX D. DECLARATION OF SIMILARITY	33



Test Report No.	Q181203S001-FCC-R
Page	5 of 33

## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
Q181203S001-FCC-R	NONE	Original	January 04, 2019

## 2. Customer information

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

## 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.



FCC ID:

Test Report No.	Q181203S001-FCC-R
Page	6 of 33

## 4. Equipment under Test (EUT) Information

Description of EUT:	REMOTE CONTROL UNIT
Main Model:	Nagra
Serial Model:	RC98XBB (X stands for A~Z, BB stands for 00~99)
Date EUT received:	December 07, 2018
Test Date(s):	January 03 to 04 , 2019
Equipment Category :	DTS
Antenna Gain:	-1.7dBi
Antenna Type:	Chip antenna
Type of Modulation:	BLE: GFSK
RF Operating Frequency (ies):	BLE: 2402-2480 MHz
Max. Output Power:	-0.106dBm
Number of Channels:	BLE: 40CH
Port:	Please refer to user's manual
Trade Name :	N/A
Input Power:	Battery: Spec: DC 3V

TX4RC98B



Test Report No.	Q181203S001-FCC-R
Page	7 of 33

## 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)	5.247(e) Power Spectral Density	
§15.247(d)	Band-Edge & Unwanted Emissions into Restricted	Compliance
3 : 0:= :: (4)	Frequency Bands	Compilation
§15.207 (a), AC Power Line Conducted Emissions		N/A
§15.205, §15.209,	Radiated Emissions & Unwanted Emissions	0
§15.247(d)	into Restricted Frequency Bands	Compliance

### **Measurement Uncertainty**

Emissions		
Test Item	Description	Uncertainty
Band-Edge & Unwanted		
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		
-	- -	-



Test Report No.	Q181203S001-FCC-R
Page	8 of 33

### 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 -1.7dBi for BLE.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



Test Report No.	Q181203S001-FCC-R
Page	9 of 33

## 6.2 DTS (6 dB) Channel Bandwidth

Temperature	22°C
Relative Humidity	59%
Atmospheric Pressure	1017mbar
Test date :	December 17, 2018
Tested By :	Aaron Liang

Spec	Item Requirement Appl		Applicable
§ 15.247(a)(2)	a) 6dB BW≥ 500kHz;		V
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 Pass Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



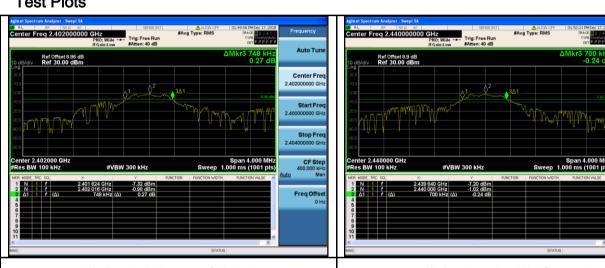
Test Report No.	Q181203S001-FCC-R
Page	10 of 33

### 6dB Bandwidth measurement result

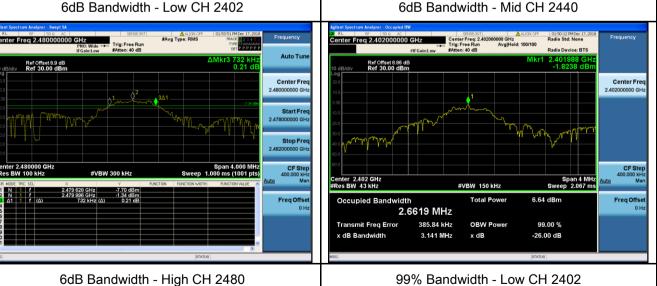
### **Test Data**

СН	Frequency (MHz)	6dB Bandwidth (kHz)	99% Occupied Bandwidth (MHz)
Low	2402	748	2.6619
Mid	2440	700	2.3467
High	2480	732	2.5498

### **Test Plots**



6dB Bandwidth - Low CH 2402



Center Free



Test Report No.	Q181203S001-FCC-R
Page	11 of 33





99% Bandwidth - Mid CH 2440

99% Bandwidth - High CH 2480



Test Report No.	Q181203S001-FCC-R
Page	12 of 33

## 6.3 Maximum Output Power

Temperature	26°C		
Relative Humidity	59%		
Atmospheric Pressure	1015mbar		
Test date :	January 03, 2019		
Tested By:	Aaron Liang		

### Requirement(s):

Spec	Item Requirement						
	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt					
	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 the RBW ≥ DTS bandwidth.						
	ŕ	b) Set VBW ≥ 3 × RBW.					
Test		oan ≥ 3 x RBW					
Procedure	,	p time = auto couple.					
	e) Detector = peak.						
	f) Trace mode = max hold.						
	g) Allow trace to fully stabilize.						
	h) Use peak marker function to determine the peak amplitude level.						
Remark							
Result	Pass Fail						



Test Report No.	Q181203S001-FCC-R
Page	13 of 33

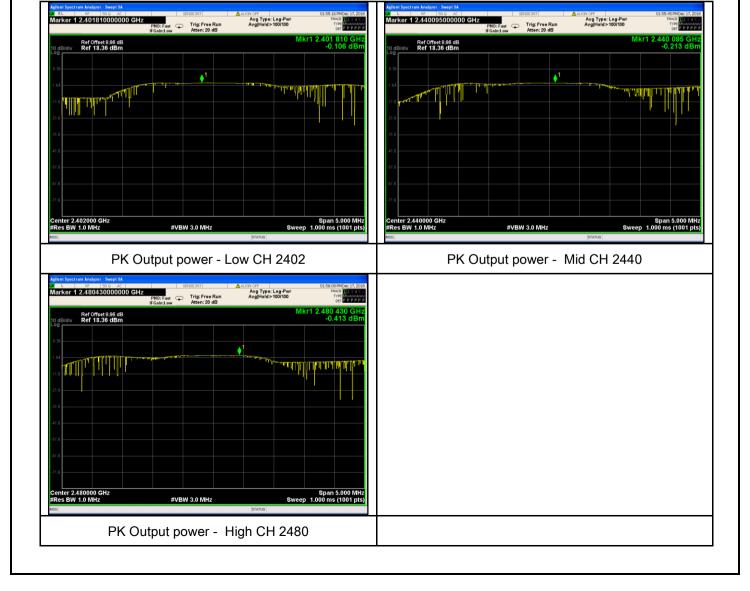
Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>

### Output Power measurement result

### **Test Data**

Туре	Туре СН		Conducted Power (dBm)	Limit (dBm)	Result
Output	Low	2402	-0.106	30	Pass
Output	Mid	2440	-0.213	30	Pass
power	High	2480	-0.413	30	Pass

### **Test Plots**





Test Report No.	Q181203S001-FCC-R
Page	14 of 33

## 6.4 Power Spectral Density

Temperature	26°C		
Relative Humidity	59%		
Atmospheric Pressure	1015mbar		
Test date :	January 03, 2019		
Tested By :	Aaron Liang		

Spec	Item	Item Requirement			
§15.247(e)	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.	<b>&gt;</b>		
Test Setup		Spectrum Analyzer EUT			
Test Procedure		558074 D01 DTS MEAS Guidance v03r03, 10.2 power spectral density met 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.			
Remark					
Result	Pas	ss Fail			

Test Data	Yes	□ <sub>N/A</sub>
Test Plot	Yes (See below)	□ <sub>N/A</sub>



Test Report No.	Q181203S001-FCC-R
Page	15 of 33

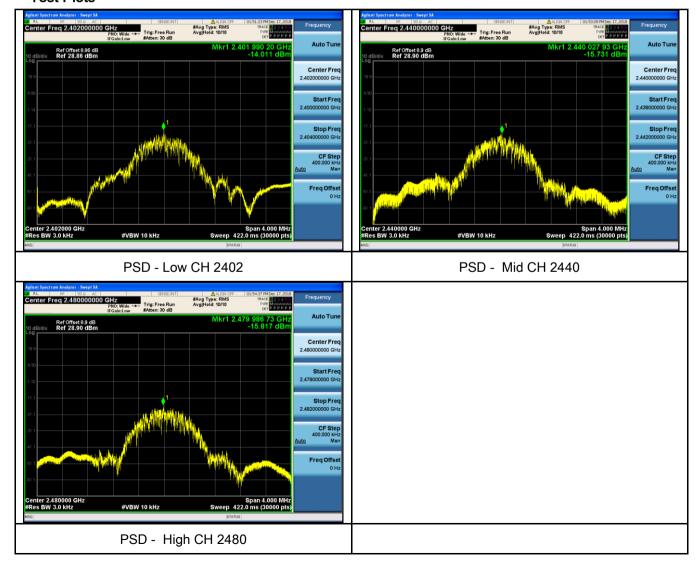
### Power Spectral Density measurement result

### **Test Data**

Туре	СН	Freq (MHz)	Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Result
	Low	2402	-14.011	-5.23	-19.241	8	Pass
PSD	D Mid	2440	-15.731	-5.23	-20.961	8	Pass
	High	2480	-15.817	-5.23	-21.047	8	Pass

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

### **Test Plots**





Test Report No.	Q181203S001-FCC-R
Page	16 of 33

## 6.5 Band-Edge & Unwanted Emissions into Restricted Frequency Bands

Temperature	21°C
Relative Humidity	56%
Atmospheric Pressure	1020mbar
Test date :	January 02, 2019
Tested By :	Aaron Liang

### Requirement(s):

Spec	Item	Applicable	
§15.247(d)	a)	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	
Test Setup	Ant. Tower  Support Units  Ground Plane  Test Receiver		
Test Procedure	Radiated Method Only     1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.     2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.		



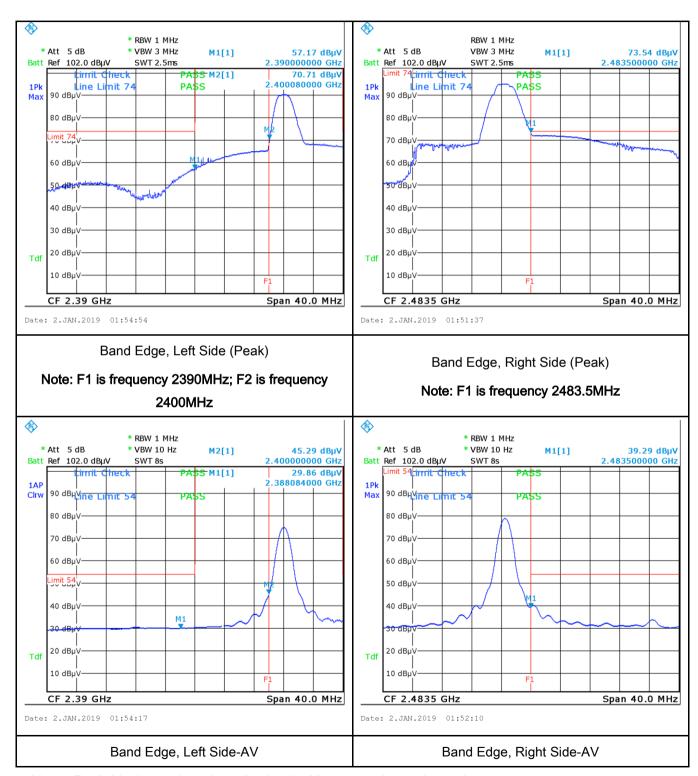
Test Report No.	Q181203S001-FCC-R
Page	17 of 33

		- 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		
	П.,	₹		
Test Data	Y	es N/A		
Test Plot	Y	es (See below)		



Test Report No.	Q181203S001-FCC-R
Page	18 of 33

# Test Plots Band Edge measurement result



Note: Both Horizontal and vertical polarities were investigated.



Test Report No.	Q181203S001-FCC-R
Page	19 of 33

## 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,	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			7 Applicable	
RSS210	u)	lower limit applies at th	e boundary between th Limit (			
(A8.1)		(MHz)	QP	Average		
		0.15 ~ 0.5	66 – 56	56 – 46		
		0.5 ~ 5	56	46		
		5 ~ 30	60	50		
Test Setup		Note: 1. Support units were connected to second LISN.  2. Both of LISNs (AMN) are 80cm from EUT and at least 80cm				
Procedure	The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.					
Flocedule	<ol> <li>The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.</li> <li>The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss</li> </ol>					



Test Report No.	Q181203S001-FCC-R
Page	20 of 33

	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

Test Data	Yes	✓ <sub>N/A</sub>
Test Plot	Yes (See below)	▼ N/A



Test Report No.	Q181203S001-FCC-R
Page	21 of 33

## 6.7 Radiated Emissions & Restricted Band

Temperature	21°C
Relative Humidity	56%
Atmospheric Pressure	1020mbar
Test date :	January 02, 2019
Tested By :	Aaron Liang

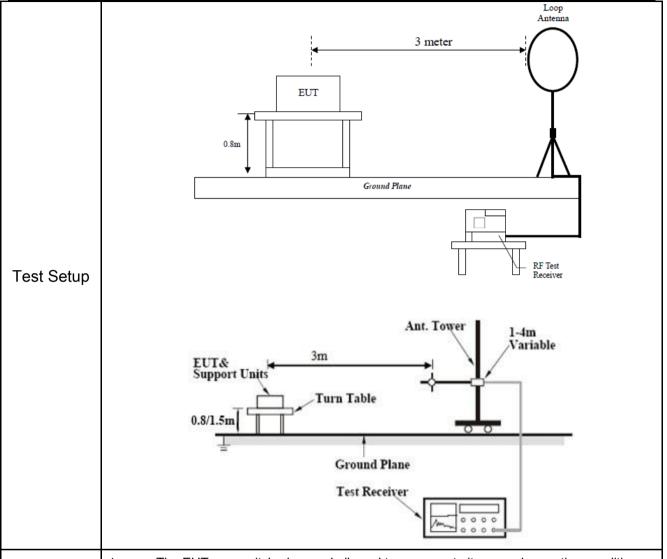
### Requirement(s):

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)	~
		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 intentional radiator is oppower that is produced by the intentional radiator is oppower that is produced by the intention band that contains the highest level determined by the measurement mused. Attenuation below the general is not required  20 dB down  30	d spectrum or digitally perating, the radio frequency ational radiator shall be at least 0 kHz bandwidth within the desired power, sethod on output power to be	V
	c)	or restricted band, emission must a emission limits specified in 15.209	V	



Procedure

Test Report No.	Q181203S001-FCC-R
Page	22 of 33



- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 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.
  - b. The EUT was then rotated to the direction that gave the maximum emission.
  - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is
   120 kHz for Quasiy Peak detection at frequency below 1GHz.
- 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.



Test Report No.	Q181203S001-FCC-R
Page	23 of 33

	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 Reading Result		Limit@3m	Margin		
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
				1		>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);

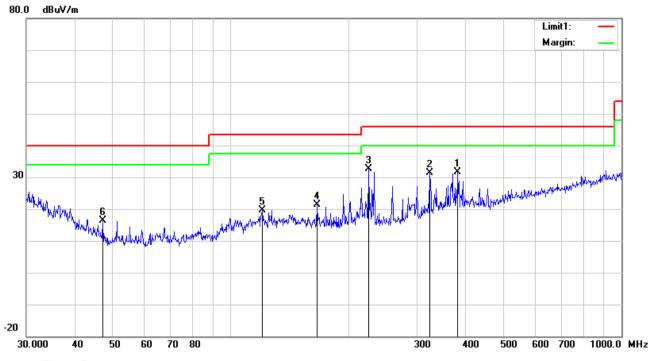
Limit line = specific limits(dBuv) + distance extrapolation factor.



Test Report No.	Q181203S001-FCC-R
Page	24 of 33

Test Mode: Transmitting Mode

### 30MHz -1GHz



### Test Data

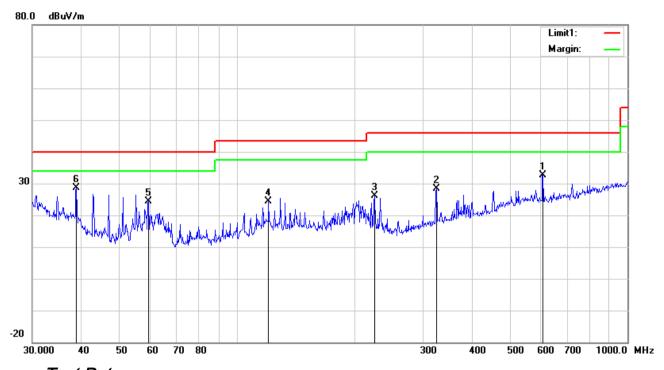
### Vertical Polarity Plot @3m

					-	_			
No.	P/L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin
		(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
1	Н	381.2487	36.31	15.31	22.06	2.02	31.58	46.00	-14.42
2	Н	323.3204	37.56	14.09	22.22	1.91	31.34	46.00	-14.66
3	Н	225.3080	41.53	11.75	22.33	1.62	32.57	46.00	-13.43
4	Н	166.6514	30.11	12.07	22.26	1.37	21.29	43.50	-22.21
5	Н	120.6991	26.89	13.85	22.36	1.16	19.54	43.50	-23.96
6	Н	46.9948	28.33	9.72	22.33	0.77	16.49	40.00	-23.51



Test Report No.	Q181203S001-FCC-R
Page	25 of 33

### 30MHz -1GHz



Test Data

### Horizontal Polarity Plot @3m

N o.	P/ L	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin
0.	_	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
1	٧	607.7867	32.58	19.19	21.56	2.51	32.72	46.00	-13.28
2	٧	324.4561	34.62	14.11	22.22	1.91	28.42	46.00	-17.58
3	٧	225.3080	35.00	11.75	22.33	1.62	26.04	46.00	-19.96
4	٧	120.6991	31.62	13.85	22.36	1.16	24.27	43.50	-19.23
5	V	59.4405	38.74	7.36	22.41	0.75	24.44	40.00	-15.56
6	<b>V</b>	38.8879	35.39	14.71	22.27	0.78	28.61	40.00	-11.39



Test Report No.	Q181203S001-FCC-R
Page	26 of 33

### Above 1GHz

		nsmitting Mode	Test 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	47.09	AV	V	33.39	7.22	48.46	39.24	54	-14.76
4804	45.09	AV	Н	33.39	7.22	48.46	37.24	54	-16.76
4804	66.84	PK	V	33.39	7.22	48.46	58.99	74	-15.01
4804	62.19	PK	Н	33.39	7.22	48.46	54.34	74	-19.66
9401	38.58	AV	V	39.97	9.66	46.36	41.85	54	-12.15
9401	32.44	AV	Н	39.97	9.66	46.36	35.71	54	-18.29
9401	56.07	PK	V	39.97	9.66	46.36	59.34	74	-14.66
9401	53.13	PK	Н	39.97	9.66	46.36	56.4	74	-17.6

### 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	44.07	AV	V	33.62	7.53	48.36	36.86	54	-17.14
4880	47.91	AV	Н	33.62	7.53	48.36	40.7	54	-13.3
4880	67.18	PK	V	33.62	7.53	48.36	59.97	74	-14.03
4880	64.56	PK	Н	33.62	7.53	48.36	57.35	74	-16.65
7167	45.19	AV	V	37.42	8.36	49.06	41.91	54	-12.09
7167	47.74	AV	Н	37.42	8.36	49.06	44.46	54	-9.54
7167	62.44	PK	V	37.42	8.36	49.06	59.16	74	-14.84
7167	62.54	PK	Н	37.42	8.36	49.06	59.26	74	-14.74



Test Report No.	Q181203S001-FCC-R
Page	27 of 33

### 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	46.52	AV	V	33.89	7.86	48.31	39.96	54	-14.04
4960	48.35	AV	Н	33.89	7.86	48.31	41.79	54	-12.21
4960	71.6	PK	V	33.89	7.86	48.31	65.04	74	-8.96
4960	63.78	PK	Н	33.89	7.86	48.31	57.22	74	-16.78
17853	19.51	AV	V	43.1	20.14	44.64	38.11	54	-15.89
17853	21.35	AV	Н	43.1	20.14	44.64	39.95	54	-14.05
17853	45.74	PK	V	43.1	20.14	44.64	64.34	74	-9.66
17853	40.11	PK	Н	43.1	20.14	44.64	58.71	74	-15.29

### 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.



Test Report No.	Q181203S001-FCC-R
Page	28 of 33

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due
AC Line Conducted Emissions				
EMI test receiver	ESCS30	8471241027	01/05/2018	01/04/2019
Artificial Mains Network	8127	8127713	01/05/2018	01/04/2019
ISN	ISN T800	34373	01/05/2018	01/04/2019
Radiated Emissions				
EMI test receiver	ESL6	1300.5001K06- 100262-eQ	01/05/2018	01/04/2019
Active Antenna	AL-130	121031	02/08/2018	02/07/2019
3m Semi-anechoic Chamber	9m*6m*6m	N/A	10/18/2018	10/17/2019
Signal Amplifier	8447E	443008	01/25/2018	01/24/2019
MXA signal analyzer	N9020A	MY49100060	01/05/2018	01/04/2019
Horn Antenna	HAH-118	71259	01/26/2018	01/25/2019
Horn Antenna	HAH-118	71283	02/02/2018	02/01/2019
AMPLIFIER	EM01G26G	60613	01/25/2018	01/24/2019
AMPLIFIER	Emc012645	980077	01/05/2018	01/04/2019
Bilog Antenna (30MHz~6GHz)	JB6	A110712	02/08/2018	02/07/2019
RF Conducted				
DC Power Supply	E3640A	MY40004013	01/05/2018	01/04/2019
MXA Signal Analyzer	N9020A	MY49100060	01/05/2018	01/04/2019
MXG Vector Signal Generator	N5182A	MY50140530	01/05/2018	01/04/2019
Series Signal Generator	E4421B	US40051152	05/12/2018	05/11/2019
RF control unit	JS0806-0806-	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	01/05/2018	01/04/2019
Universal Radio Communica	CMU200	121393	02/11/2018	02/10/2019

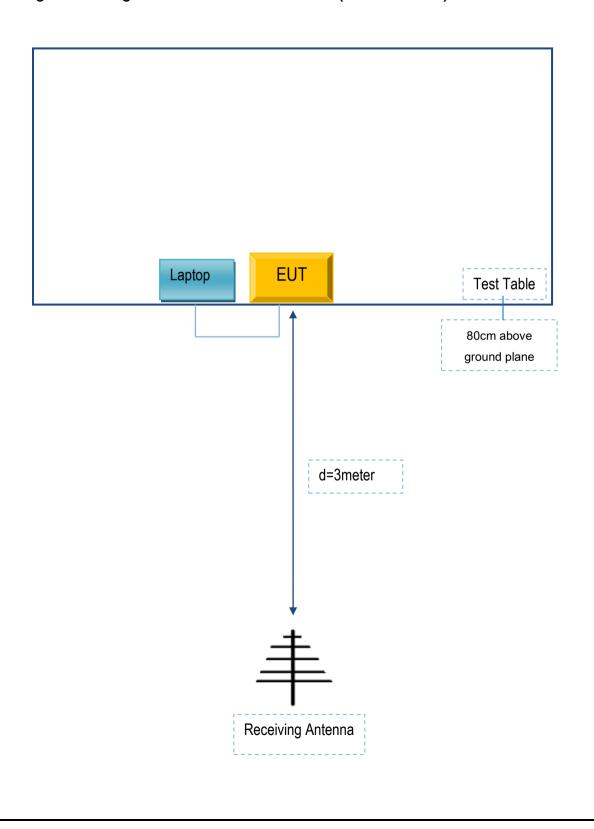


Test Report No.	Q181203S001-FCC-R
Page	29 of 33

## Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

### Annex B.i. TEST SET UP BLOCK

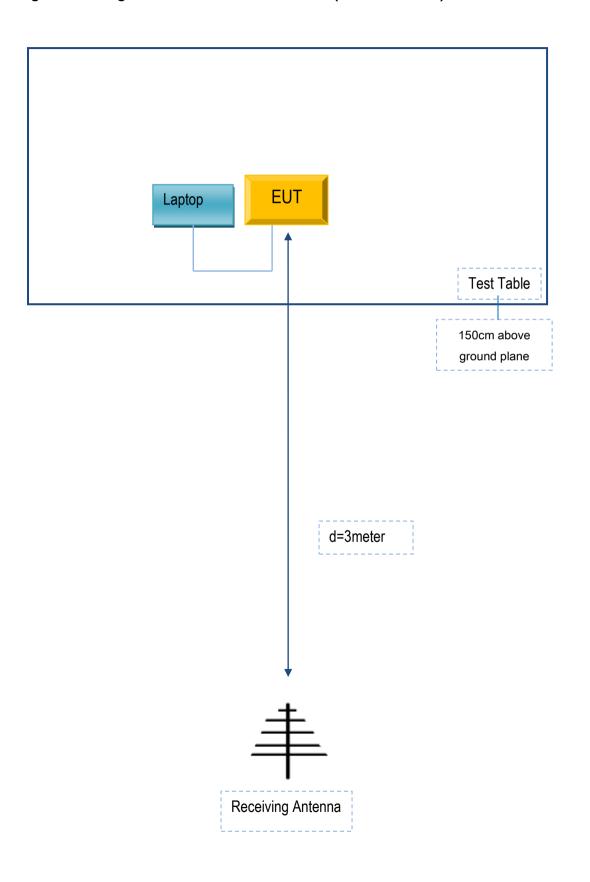
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





Test Report No.	Q181203S001-FCC-R
Page	30 of 33

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





Test Report No.	Q181203S001-FCC-R
Page	31 of 33

### 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	E40-30	MPV5R5GB

### Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
N/A	N/A	N/A	N/A	N/A



Test Report No.	Q181203S001-FCC-R
Page	32 of 33

Annex C. User Manual / Block Diagram / Schematics / Partlist Please see the attachment



Test Report No.	Q181203S001-FCC-R
Page	33 of 33

### Annex D. DECLARATION OF SIMILARITY

### REMOTE SOLUTION.CO,.LTD

To: 775 Montague Expressway Mlpitas, CA 95035, USA

### **Declaration Letter**

Dear Sir,

For our business issue and marketing requirement,

We declare that the model: Nagra, RC98XBB(X is FROM A to Z, BB is 00-99) all models the same PCB and Appearance shape, accessories ,the Simple case, printing color difference is.

Thank you!

Sincerely,

Client's signature:

Client's name / title : Byung chul, Kim / Manager

Telephone: +82-10-5533-8113

Address: 92, Chogok-ri, Nammyun, Gimchun city, Kyungsangbukdo, Korea