

CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID/IC TEST REPORT

# TEST REPORT NUMBER : CGZ3160305-00155-EFI



CENTRE OF TESTING SERVICE CO., LTD. A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China





TEST REPORT For FCC ID/IC				
47 CFR PART 15 OCT, 2016; RSS-210 Issue 9				
Report Reference No CGZ3160305-00155-EFI				
Date of issue	13 February 2017			
Testing Laboratory Name	CENTRE OF TESTING SERVICE CO., LTD.			
Address	A101,No.65,Zhuji Highway,Tianhe District,Guangzhou, China			
Testing location/ procedure	Full application of Harmonised standards ■			
	Partial application of Harmonised standards $\Box$			
	Other standard testing method $\Box$			
Applicant's name	Horizon Hobby, LLC			
Address	. 4105 Fieldstone Road, Champaign, IL 61822, USA			
Test specification				
Standard	47 CFR PART 15 OCT, 2016; RSS-210 Issue 9; RSS-Gen Issue 4			
	ANSI C63.10:2013			
Test Report Form No	CTSEMC-1.0			
TRF Originator	CENTRE OF TESTING SERVICE CO., LTD.			
Master TRF	Dated 2009-01			
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Test item description	Receiver			
Trade Mark	•			
Manufacturer	. Horizon Hobby, LLC			
Model/Type reference	SRS4210			
Ratings	. Battery 5V			
Operating Frequency	2404.0MHz ~2476.0MHz			
Result	Positive			

Compiled by:

Kate zhang / Fileadministrators

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Vincent yao / Manager

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Report No.: CGZ3160305-00155-EFI





# FCC ID/IC -- TEST REPORT

#### 13 February 2017 **Test Report No. :** CGZ3160305-00155-EFI Date of issue SRS4210 Type / Model..... EUT..... Receiver Applicant..... Horizon Hobby, LLC Address..... 4105 Fieldstone Road, Champaign, IL 61822, USA Telephone..... +1-217 4033657 Fax..... 1 Contact..... Erin Hassan Manufacturer..... Horizon Hobby, LLC 4105 Fieldstone Road, Champaign, IL 61822, USA Address..... Telephone..... +1-217 4033657 Fax..... 1 Contact..... Erin Hassan Factory..... Horizon Hobby, LLC 4105 Fieldstone Road, Champaign, IL 61822, USA Address..... +1-217 4033657 Telephone..... Fax..... Contact..... Erin Hassan

Test Result according to the standards on page 1: PASSED

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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#### FCC ID:BRWDASRX12 IC: 6157A-AMRX12 **CENTRE OF TESTING SERVICE**



# CTS

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10. DEVIATION TO TEST SPECIFICATIONS	

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# 1.TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2016
   RSS-210 Issue 9
- RSS-Gen Issue 4
- ANSI C63.10:2013

## 2.SUMMARY

## 2.1 GENERAL REMARKS

Date of receipt of test sample	05 March 2016
Testing commenced on	05~09 March 2016
Testing concluded on	13 February 2017

#### 2.2 FINAL ASSESSMENT

The FCC/IC requirements pertaining to the technical standards and tested operation modes are

fulfilled.

- not fulfilled.

The equipment under test

- fulfils the FCC/IC requirements cited on page 1.
- **does not** fulfil the FCC/IC requirements cited on page 1.

# 3.EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage : Battery 5V

## 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: **1** Serial number: Prototype

#### 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- □ TX- Y position
- □ TX- Zposition
- TX- X position
- RX- X position

Operation mode 1:TX-X Position Low (2404MHz), TX-X Position Middle (2440MHz),

TX-X Position High (2476MHz)

RX- X position

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; so only these test results be recorded in the test report.

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Report No.: CGZ3160305-00155-EFI



## 3.4 EUT configuration

#### 3.4.1. Description of configuration (EUT)

Description	:	Receiver
Model Number	:	SRS4210
Operation frequency	:	2404~ 2476 MHz ISM Band
Modulation Technology	:	DSSS Modulation
Antenna	:	External antenna, met requirement of FCC 15.203

#### 3.4.2. Tested Supporting System Details

N/A

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# 4. TEST ENVIRONMENT

## 4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

## 4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

## IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

## FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.791995, July 13,2012.

## 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

## 4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

#### 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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## **4.6 Measurement Uncertainty**

Test Item	Frequency Range Uncertainty		Note
Conduction disturbance	150kHz~30MHz ±1.22dB		(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 5. Summary of standards and results

## 5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION				
Description of Test Item	Standard	Results		
Conducted Emission Test	FCC Part 15 § 15.207 RSS-Gen Issue 4§ 7.2.4 ANSI C63.10:2013	N/A		
Radiated Emission Test	RSS-Gen Issue 4§ 7.2 RSS-210 Issue 9 § B.10 FCC Part 15 C § 15.249 FCC Part 15 § 209 ANSI C63.10:2013	PASSED		
Receiver Spurious Emissions	RSS-Gen Issue 4§ 4.10 ANSI C63.10:2013	PASSED		
Band Edge Compliance Test	RSS-210 Issue 9 § 4.1 RSS-Gen Issue 4 § 8.10 FCC Part 15 C § 15.249 ANSI C63.10:2013	PASSED		
99% Bandwidth	RSS-Gen Issue 4 § 6.6 ANSI C63.10:2013	PASSED		
N/A is an abbreviation for Not Applicable.				

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# 6. Power Line Conducted Emission Test

#### 6.1.Test Equipment

Conduc	Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2016/10	
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2016/10	
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2016/10	
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2016/10	
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2016/10	

## 6.2. Block Diagram of Test Setup



(EUT: Receiver)

## 6.3. Power Line Conducted Emission Test Limits

## Standard:RSS-Gen:7.2.4,FCC Part 15 : 15.207,ANSI C63.10:2013

		Maximum RF Line Voltage		
Frequency		Quasi-Peak Level	Average Level	
		dB(μV)	dB(μV)	
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*	
500kHz	~ 5MHz	56	46	
5MHz	~ 30MHz	60	50	

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

## **6.4.Test Procedure**

The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

## 6.5. Power Line Conducted Emission Test Results

#### N/A

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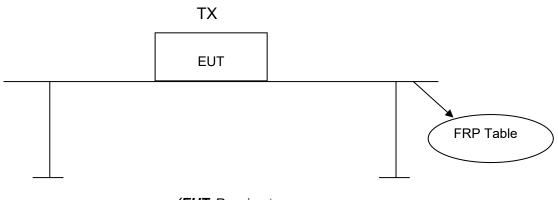
# 7. Radiated disturbance (electric field)

## 7.1.Test Equipment

Radia	Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2016/10	
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2016/03	
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2016/03	
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03	
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03	
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2016/10	

## 7.2.Block Diagram of Test Setup

#### 7.2.1 Block Diagram of connection between EUT and simulators



(EUT: Receiver)

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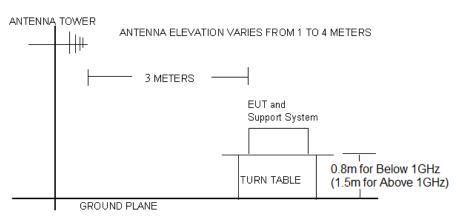
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#### 7.2.2 Anechoic Chamber Setup Diagram



#### 7.3.Radiated Emission Limit :

## Standard: FCC 15.249 , FCC 15.209; RSS-Gen:7.2; RSS-210 B.10.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FRE	FREQUENCY DISTANCE		FIELD STREN	FIELD STRENGTHS LIMIT		
	MHz		Meters	μV/m	dB(μV)/m	
0.009	~	0.490	300	2400/F(kHz)		
0.490	~	1.705	30	24000/F(kHz)		
1.705	~	30	30	30		
30	~	88	3	100	40.0	
88	~	216	3	150	43.5	
216	~	960	3	200	46.0	
960	~	1000	3	500	54.0	
A 1	Above 1000		3	Other:74.0 dB(µ	ιV)/m (Peak)	
A			3	54.0 dB(μV)/m (Average)		

Remark: (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$ 

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter (1.5m for above 1GHz) high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

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The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

#### 7.5. Radiated Emission Test Results

#### PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode:	TX – X Position Mode	Result:	- passed
Frequency range:	9KHz~30MHz		- not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Rem	ark: The test re	esult readi	ng value is to l	low, margin a	ll > 20dB of t	he limit.	

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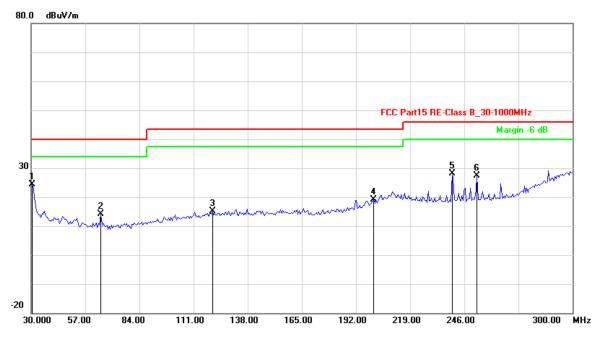
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Channel:	TX –X Position	Result:	- passed
Test point:	Horizontal		- not passed
Frequency range:	30MHz-1GHz		

EUT	Receiver
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	05~09 March 2016
Operator	Duke
MODEL NO	SRS4210



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	30.5411	-16.11	40.47	24.36	40.00	-15.64	QP		
2	64.6293	-20.19	34.29	14.10	40.00	-25.90	QP		
3	120.3607	-16.70	31.92	15.22	43.50	-28.28	QP		
4	200.9820	-12.08	31.21	19.13	43.50	-24.37	QP		
5	239.9399	-11.56	39.61	28.05	46.00	-17.95	QP		
6	252.3848	-11.31	38.60	27.29	46.00	-18.71	QP		
Remark	Remark: Other frequency mini margin all >6 dB of Limit								

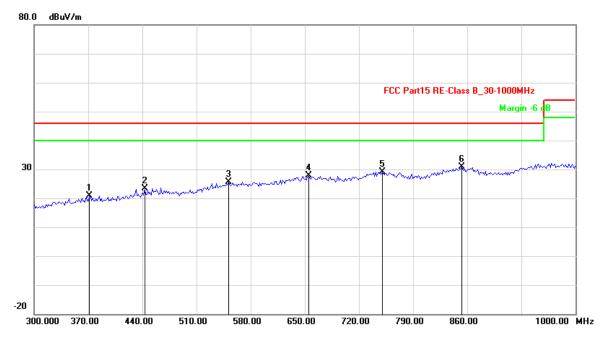
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	371.5431	-10.99	31.83	20.84	46.00	-25.16	QP
2	443.0862	-8.74	32.20	23.46	46.00	-22.54	QP
3	551.1022	-5.68	31.38	25.70	46.00	-20.30	QP
4	654.9098	-3.28	31.17	27.89	46.00	-18.11	QP
5	750.3006	-1.61	30.79	29.18	46.00	-16.82	QP
6	852.7054	-0.37	31.30	30.93	46.00	-15.07	QP
Remark	: Other frequen	cy mini ma	rgin all >6 dB o	of Limit			

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Channel:

Test point:



TX – X Position Low CH

Horizontal



Result: 
- passed

□ - not passed

est poi		Horizonia				<ul> <li>not passe</li> </ul>	ed
Frequen	ncy range:	1GHz-26.8	GHZ				
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2404.00	-6.83	90.04	83.21	114.00	-30.79	Peak
2	2404.00	-6.83	87.47	80.64	94.00	-13.36	AVG
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1588.677	-11.94	54.55	42.61	74.00	-31.39	peak
2	1588.677	-11.94	39.33	27.39	54.00	-26.61	AVG
3	5685.872	5.44	39.58	45.02	74.00	-28.98	peak
4	5685.872	5.44	24.71	30.15	54.00	-23.85	AVG
-	: Other frequer				01100	20.00	7.00
- tomain		<u>ioj</u>					
Channe	ŀ		sition Middle C	<u> </u>	Result:	pagad	
Test poi		Horizonta				- passed	
	ncy range:	1GHz-26.5				- not passe	bd
requer	ley fallge.	10112-20.0	0112				
No.	Frequency	Factor	Deading	Level	Limit	Morain	Det.
NO.	(MHz)	(dB)	Reading (dBuV)	(dBuV/m)	(dBuV/m)	Margin (dB)	Det.
1	2440.00	-6.62	89.74	83.12	114.00	-30.88	Peak
1 2	2440.00	-6.62		80.39	94.00	-30.66	AVG
Z	2440.00	-0.02	87.01	00.39	94.00	-13.01	AVG
NI -	<b></b>	Fastan	Destriction		1	<b>84</b>	<b>D</b> -4
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1612.224	-11.79	51.40	39.61	74.00	-34.39	peak
2	1612.224	-11.79	37.28	25.49	54.00	-28.51	AVG
3	5968.437	6.49	40.18	46.67	74.00	-27.33	peak
4	5968.437	6.49	24.80	31.29	54.00	-22.71	AVG
Pomorli							
Ternark	: Other frequer	ncy mini ma	rgin all >20 dB	s of Limit			
		•	-		Result: ∎	- passed	
Channe	1:	TX –X Pos	sition High CH			- passed	ad .
Channe Test poi	l: nt:	TX –X Pos Horizonta	sition High CH I			- passed - not passe	ed
Channe Test poi	1:	TX –X Pos	sition High CH I			•	ed
Channe Test poi	l: nt: ncy range: <b>Frequency</b>	TX –X Pos Horizonta 1GHz-26.5	sition High CH I 5GHz <b>Reading</b>	Level	Limit	- not passe	
Channe Test poi Frequen <b>No.</b>	l: nt: ncy range: <b>Frequency</b> (MHz)	TX –X Pos Horizonta 1GHz-26.5 Factor (dB)	sition High CH I 5GHz Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	- not passe Margin (dB)	Det.
Channe Test poi Frequen <b>No.</b> 1	l: nt: ncy range: Frequency (MHz) 2476.00	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40	sition High CH I 5GHz Reading (dBuV) 89.11	Level (dBuV/m) 82.71	Limit (dBuV/m) 114.00	- not passe Margin (dB) -31.29	Det. Peak
Channe Test poi Frequen <b>No</b> .	l: nt: ncy range: <b>Frequency</b> (MHz)	TX –X Pos Horizonta 1GHz-26.5 Factor (dB)	sition High CH I 5GHz Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	- not passe Margin (dB)	Det. Peak
Channe Test poi Frequen <b>No.</b> 1 2	l: nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 -6.40	sition High CH I 5GHz <b>Reading (dBuV)</b> 89.11 86.45	Level (dBuV/m) 82.71	Limit (dBuV/m) 114.00	- not passe Margin (dB) -31.29	Det. Peak AVG
Channe Test poi Frequen <b>No.</b> 1	l: nt: ncy range: Frequency (MHz) 2476.00	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor	sition High CH I 5GHz Reading (dBuV) 89.11	Level (dBuV/m) 82.71 80.05	Limit (dBuV/m) 114.00 94.00	- not passe Margin (dB) -31.29 -13.95	Det. Peak AVG
Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b>	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz)	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 Factor (dB)	sition High CH I 5GHz (dBuV) 89.11 86.45 Reading (dBuV)	Level (dBuV/m) 82.71 80.05 Level (dBuV/m)	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m)	- not passe Margin (dB) -31.29 -13.95 Margin (dB)	Det. Peak AVG Det.
Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b> 1	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz) 1729.960	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor (dB) -11.01	sition High CH I 5GHz (dBuV) 89.11 86.45 Reading (dBuV) 45.46	Level (dBuV/m) 82.71 80.05 Level (dBuV/m) 34.45	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00	- not passe Margin (dB) -31.29 -13.95 Margin (dB) -39.55	Det. Peak AVG Det.
Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b> 1 2	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 2476.00 Frequency (MHz) 1729.960 1729.960	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 -6.40 -6.40 Factor (dB) -11.01 -11.01	sition High CH I 5GHz <b>Reading</b> (dBuV) 89.11 86.45 <b>Reading</b> (dBuV) 45.46 31.14	Level (dBuV/m) 82.71 80.05 Level (dBuV/m) 34.45 20.13	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00 54.00	- not passe Margin (dB) -31.29 -13.95 Margin (dB) -39.55 -33.87	Det. Peak AVG Det. peak AVG
Channe Test poi Frequen <b>No.</b> 1 2 <b>No.</b> 1	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz) 1729.960	TX –X Pos Horizonta 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor (dB) -11.01	sition High CH I 5GHz (dBuV) 89.11 86.45 Reading (dBuV) 45.46	Level (dBuV/m) 82.71 80.05 Level (dBuV/m) 34.45	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00	- not passe Margin (dB) -31.29 -13.95 Margin (dB) -39.55	Det.

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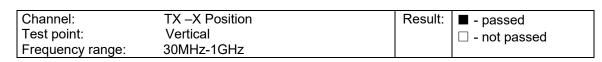
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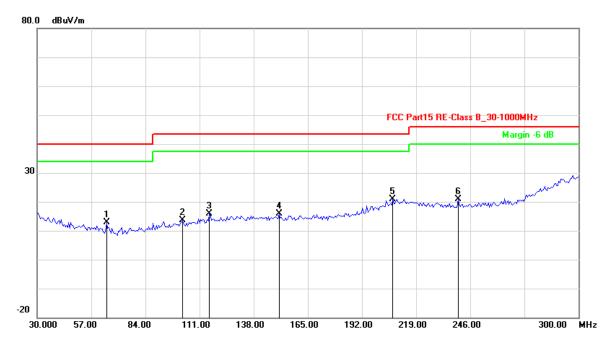
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	64.6293	-20.19	32.95	12.76	40.00	-27.24	QP		
2	102.5050	-17.99	31.59	13.60	43.50	-29.90	QP		
3	116.0321	-16.95	32.79	15.84	43.50	-27.66	QP		
4	150.6613	-15.96	31.83	15.87	43.50	-27.63	QP		
5	207.4750	-10.72	31.60	20.88	43.50	-22.62	QP		
6	239.9399	-11.56	32.33	20.77	46.00	-25.23	QP		
Remark:	Remark: Other frequency mini margin all >6 dB of Limit								

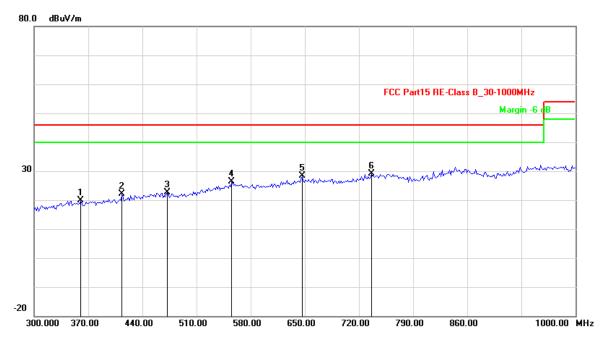
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	360.3206	-11.18	31.06	19.88	46.00	-26.12	QP		
2	413.6273	-9.95	32.17	22.22	46.00	-23.78	QP		
3	472.5451	-8.31	30.88	22.57	46.00	-23.43	QP		
4	555.3106	-5.67	32.08	26.41	46.00	-19.59	QP		
5	646.4930	-3.39	31.77	28.38	46.00	-17.62	QP		
6	736.2725	-2.18	31.28	29.10	46.00	-16.90	QP		
Remark	Remark: Other frequency mini margin all >6 dB of Limit								

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Channel:

Test point:



TX – X Position Low CH

Vertical



Result: 
- passed

- not passed

est poi		Vertical				- not passe	ed
-requen	icy range:	1GHz-26.8	ōGHz				
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
<u> </u>	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2404.00	-6.83	90.85	84.02	114.00	-29.98	Peak
2	2404.00	-6.83	89.21	82.38	94.00	-11.62	AVG
		-					
No.	Frequency	Factor	Reading	Level (dBuV/m)	Limit	Margin	Det.
1	(MHz) 1588.677	(dB) -11.94	(dBuV) 50.54	38.60	(dBuV/m) 74.00	( <b>dB</b> ) -35.40	noak
2	1588.677	-11.94	35.63	23.69	54.00	-30.31	peak AVG
3	5662.325	5.35	41.19	46.54	74.00	-30.31	
4	5662.325	5.35	25.91	31.26	54.00	-27.40	peak AVG
•	Contraction of the contract of				54.00	-22.74	AVG
Remain		icy mini ma	rgin all 20 ub				
Channel	1.		sition Middle C	<u> </u>	Degulti 🔳		
		Vertical		п		- passed	
Test poi	nt. icy range:	1GHz-26.5				- not passe	ed
requei	icy fallge.	10112-20.	00112				
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
NO.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	Del.
1	2440.00	-6.62	90.70	84.08	114.00	-29.92	Peak
2	2440.00	-6.62	88.96	82.34	94.00	-11.66	AVG
2	2440.00	-0.02	00.00	02.04	54.00	-11.00	710
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	200
1	1612.224	-11.79	52.66	40.87	74.00	-33.13	peak
2	1612.224	-11.79	37.48	25.69	54.00	-28.31	AVG
3	7875.752	11.08	38.06	49.14	74.00	-24.86	peak
4	7875.752	11.08	23.28	34.36	54.00	-19.64	AVG
Remark	: Other frequer	ncy mini ma	rgin all >20 dB	of Limit			
	·	,	<u> </u>				
Channel	•		sition High CH		Result:	- passed	
	1:					- passed	ed
Test poi	1:	TX –X Pos	sition High CH			- passed - not passe	ed
Test poi	l: nt:	TX –X Pos Vertical	sition High CH			•	ed
Test poi	l: nt: ncy range: <b>Frequency</b>	TX –X Pos Vertical 1GHz-26.5	sition High CH 5GHz Reading	Level	Limit	- not passe Margin	
Test poi Frequen <b>No.</b>	l: nt: ncy range: <b>Frequency</b> (MHz)	TX –X Pos Vertical 1GHz-26.5 <b>Factor</b> (dB)	sition High CH 5GHz Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	- not passe Margin (dB)	Det.
Test poi Frequen <b>No.</b> 1	l: nt: ncy range: Frequency (MHz) 2476.00	TX –X Pos Vertical 1GHz-26.5 Factor (dB) -6.40	sition High CH 5GHz Reading (dBuV) 90.46	Level (dBuV/m) 84.06	Limit (dBuV/m) 114.00	- not passe Margin (dB) -29.94	Det. Peak
Test poi Frequen <b>No.</b>	l: nt: ncy range: <b>Frequency</b> (MHz)	TX –X Pos Vertical 1GHz-26.5 <b>Factor</b> (dB)	sition High CH 5GHz Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	- not passe Margin (dB)	Det. Peak
<b>No.</b> 1 2	l: nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00	TX –X Pos Vertical 1GHz-26.5 <b>Factor</b> (dB) -6.40 -6.40	sition High CH 5GHz Reading (dBuV) 90.46 88.87	Level (dBuV/m) 84.06 82.47	Limit (dBuV/m) 114.00 94.00	- not passe Margin (dB) -29.94 -11.53	Det. Peak AVG
Test poi Frequen <b>No.</b> 1	l: nt: ncy range: <b>Frequency</b> (MHz) 2476.00 2476.00 Frequency	TX –X Pos Vertical 1GHz-26.5 <b>Factor</b> (dB) -6.40 -6.40 <b>Factor</b>	sition High CH 5GHz (dBuV) 90.46 88.87 Reading	Level (dBuV/m) 84.06 82.47 Level	Limit (dBuV/m) 114.00 94.00 Limit	- not passe Margin (dB) -29.94 -11.53 Margin	Det. Peak
Test poi Frequen No. 1 2	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz)	TX –X Pos Vertical 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor (dB)	sition High CH 5GHz (dBuV) 90.46 88.87 Reading (dBuV)	Level (dBuV/m) 84.06 82.47	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m)	- not passe Margin (dB) -29.94 -11.53 Margin (dB)	Det. Peak AVG Det.
Test poi Frequen No. 1 2 No. 1	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz) 1635.772	TX –X Pos Vertical 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor (dB) -11.63	sition High CH 5GHz (dBuV) 90.46 88.87 Reading (dBuV) 54.38	Level (dBuV/m) 84.06 82.47 Level (dBuV/m) 42.75	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00	- not passe Margin (dB) -29.94 -11.53 Margin (dB) -31.25	Det. Peak AVG Det.
Test poi Tequen No. 1 2 No. 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz) 1635.772 1635.772	TX –X Pos Vertical 1GHz-26.5 Factor (dB) -6.40 -6.40 -6.40 Factor (dB) -11.63 -11.63	sition High CH 5GHz <b>Reading</b> (dBuV) 90.46 88.87 <b>Reading</b> (dBuV) 54.38 38.21	Level (dBuV/m) 84.06 82.47 Level (dBuV/m) 42.75 26.58	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00 54.00	- not passe Margin (dB) -29.94 -11.53 Margin (dB) -31.25 -27.42	Det. Peak AVG Det. peak AVG
Test poi Frequen No. 1 2 No. 1	l: nt: ncy range: Frequency (MHz) 2476.00 2476.00 Frequency (MHz) 1635.772	TX –X Pos Vertical 1GHz-26.5 Factor (dB) -6.40 -6.40 Factor (dB) -11.63	sition High CH 5GHz (dBuV) 90.46 88.87 Reading (dBuV) 54.38	Level (dBuV/m) 84.06 82.47 Level (dBuV/m) 42.75	Limit (dBuV/m) 114.00 94.00 Limit (dBuV/m) 74.00	- not passe Margin (dB) -29.94 -11.53 Margin (dB) -31.25	Det. Peak AVG

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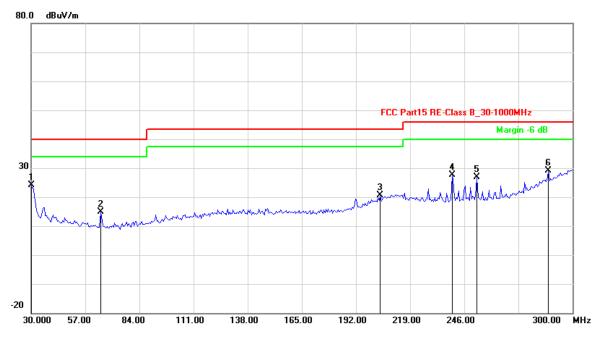
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Channel:	RX	Result:	- passed
Test point:	Horizontal		in the second
Frequency range:	30MHz-1GHz		

EUT	Receiver
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	05~09 March 2016
Operator	Duke
MODEL NO	SRS4210



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	30.0000	-16.04	40.18	24.14	40.00	-15.86	QP	
2	64.6293	-20.19	34.97	14.78	40.00	-25.22	QP	
3	204.2285	-11.40	32.12	20.72	43.50	-22.78	QP	
4	239.9399	-11.56	39.18	27.62	46.00	-18.38	QP	
5	252.3848	-11.31	38.26	26.95	46.00	-19.05	QP	
6	288.0962	-4.65	33.84	29.19	46.00	-16.81	QP	
Remark	Remark: Other frequency mini margin all >6 dB of Limit							

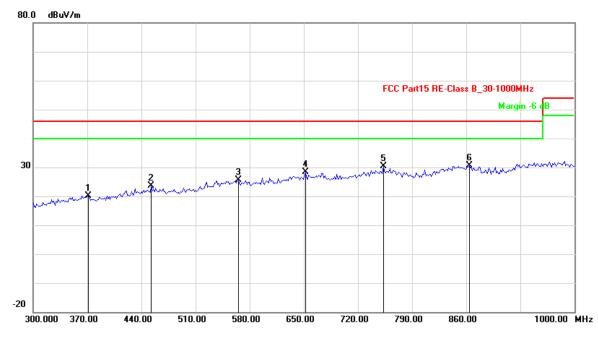
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	371.5431	-10.99	31.18	20.19	46.00	-25.81	QP
2	452.9058	-8.44	31.99	23.55	46.00	-22.45	QP
3	565.1303	-5.64	31.19	25.55	46.00	-20.45	QP
4	652.1042	-3.25	31.63	28.38	46.00	-17.62	QP
5	753.1062	-1.70	32.14	30.44	46.00	-15.56	QP
6	863.9279	-0.71	31.24	30.53	46.00	-15.47	QP
Remark: Other frequency mini margin all >6 dB of Limit							

Channel:	RX	Result:	- passed
Test point:	Horizontal		in the passed
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1729.960	-11.01	51.12	40.11	74.00	-33.89	peak	
2	1729.960	-11.01	37.39	26.38	54.00	-27.62	AVG	
3	8111.222	11.56	38.27	49.83	74.00	-24.17	peak	
4	8111.222	11.56	23.18	34.74	54.00	-19.26	AVG	
Remark	Remark: Other frequency mini margin all >20 dB of Limit							

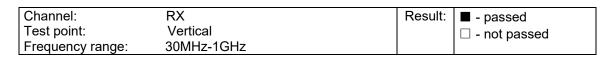
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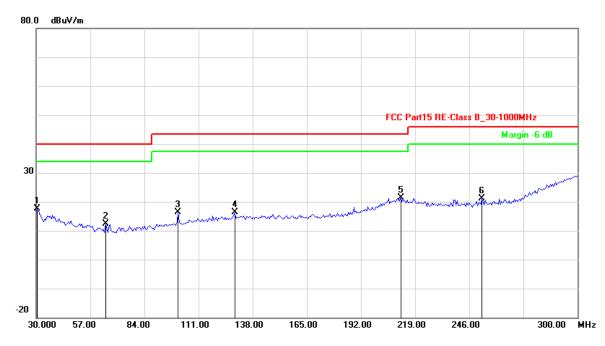
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	30.5411	-16.11	33.77	17.66	40.00	-22.34	QP	
2	64.6293	-20.19	32.49	12.30	40.00	-27.70	QP	
3	100.8818	-18.14	34.57	16.43	43.50	-27.07	QP	
4	129.0180	-16.20	32.66	16.46	43.50	-27.04	QP	
5	211.8036	-10.32	31.59	21.27	43.50	-22.23	QP	
6	252.3848	-11.31	32.36	21.05	46.00	-24.95	QP	
Remark:	Remark: Other frequency mini margin all >6 dB of Limit							

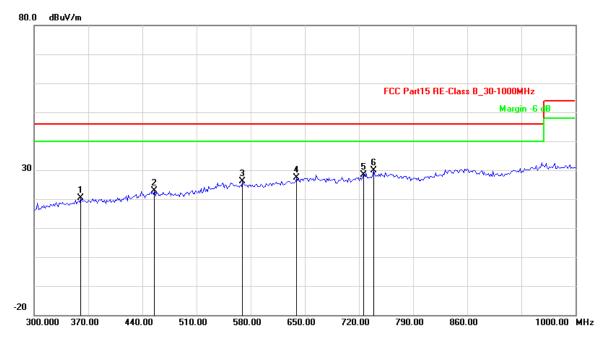
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	360.3206	-11.18	31.62	20.44	46.00	-25.56	QP	
2	455.7114	-8.42	31.42	23.00	46.00	-23.00	QP	
3	569.3387	-5.63	31.66	26.03	46.00	-19.97	QP	
4	639.4790	-3.72	31.06	27.34	46.00	-18.66	QP	
5	726.4529	-2.59	31.05	28.46	46.00	-17.54	QP	
6	739.0782	-2.06	31.82	29.76	46.00	-16.24	QP	
Remark	Remark: Other frequency mini margin all >6 dB of Limit							

Channel:	RX	Result:	- passed
Test point:	Vertical		□ - not passed
Frequency range:	1GHz-26.5GHz		— ···· F ···· -

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	1729.960	-11.01	52.56	41.55	74.00	-32.45	peak	
2	1729.960	-11.01	37.59	26.58	54.00	-27.42	AVG	
3	8699.900	12.82	38.61	51.43	74.00	-22.57	peak	
4	8699.900	12.82	23.92	36.74	54.00	-17.26	AVG	
Remark	Remark: Other frequency mini margin all >20 dB of Limit							

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# 8.Band Edge Compliance test

## 8.1. Test Equipment

Band Edge Compliance test								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2016/10			
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03			
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03			

## 8.2. Test Information

EUT	Receiver	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Test distance	3 Meter	
Test Date:	05~09 March 2016	
Operator	Duke	
MODEL NO	SRS4210	

#### 8.3. Test procedure

- 1、 The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz ; VBW=1KHz(1/on Time) / Sweep=AUTO

## 8.4. Test Results

#### PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	47.55	19.33	47.24	20.12
	2400MHz	57.99	28.75	57.66	31.76
High Channel	2483.5MHz	49.69	19.43	52.48	20.56
	2500MHz	39.47	18.74	43.77	19.16

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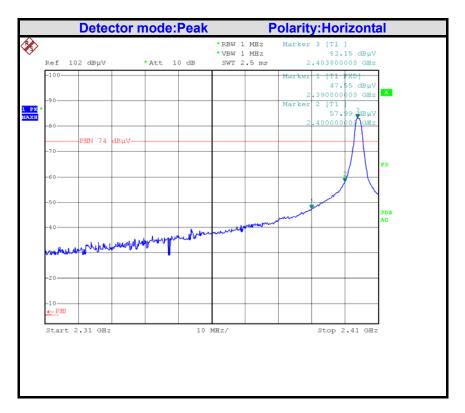
 i2 lines)
 Fax: +86-20-38780406

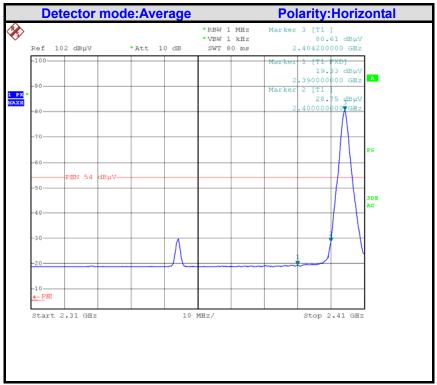
 533471
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## **Band Edges (Low)**





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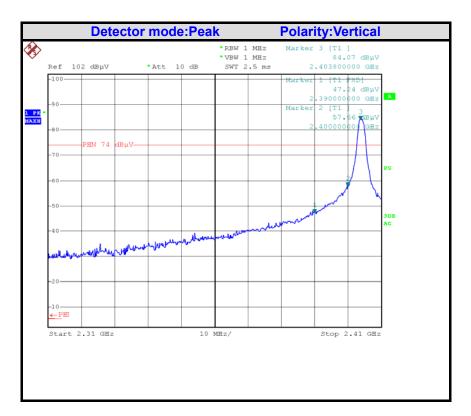
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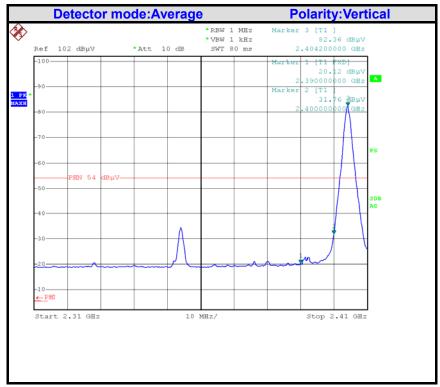
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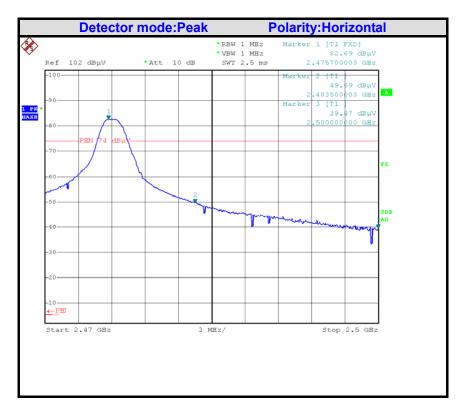
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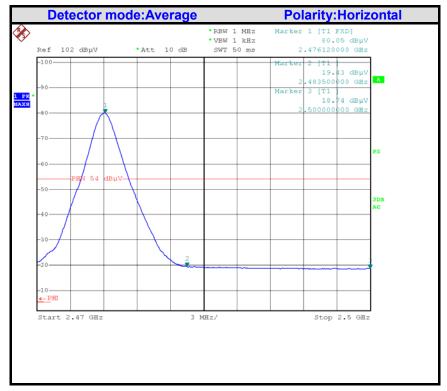
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## Band Edges (High)





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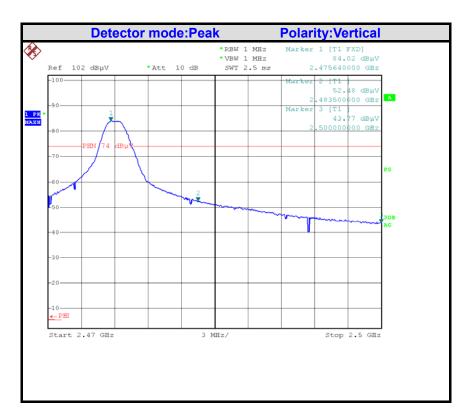
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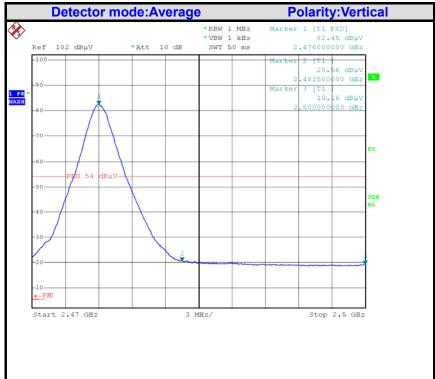
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# CTS





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## 9.99% bandwidth

## 9.1 Test procedure

According to RSS-210 A1.1.3 and RSS-Gen 4.6.1 The Receiver output is connected to the spectrum analyzer. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The sweep time is coupled.

#### 9.2. Test Equipment

Band Edge Compliance test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2016/03/30
2	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2016/03/25

#### 9.3. Test Results

PASSED.

Channel	Frequency (MHz)	Bandwidth (MHz)
Low	2404	1.230
Middle	2440	1.266
High	2476	1.368

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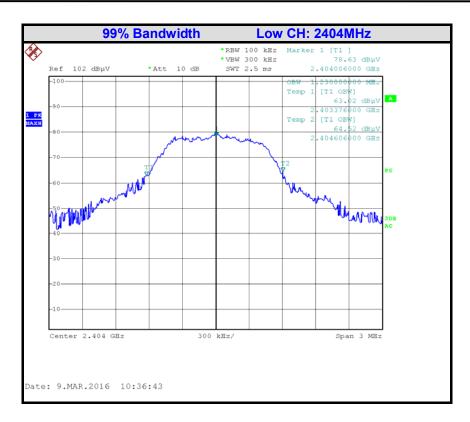
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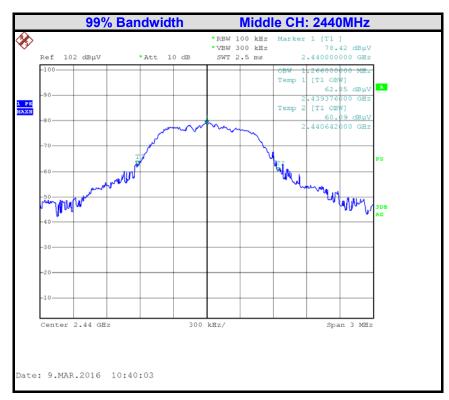
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## 10 Antenna Requirements

## **10.1 Standard Applicable**

The EUT is External antenna, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## **10.2 Antenna Construction and Directional Gain**

Antenna type: External Antenna Antenna Gain: 2dBi

# 10. Deviation to test specifications

The following identical model(s):

AR636H, SRS4200, SRS4201

Belong to the tested device:

Product description: Receiver Model name: SRS4210

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