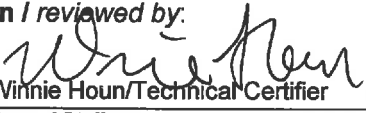


Prüfbericht-Nr.: <i>Test Report No.:</i>	17044439 001	Auftrags-Nr.: <i>Order No.:</i>	164018738	Seite 1 von 20 <i>Page 1 of 20</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	04.08.2014		
Auftraggeber: <i>Client:</i>	Widex A/S Nymoellevej 6, 3540 Lyngø, Denmark				
Prüfgegenstand: <i>Test item:</i>	RC-DEX REMOTE CONTROL				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	RC-DEX (WIDEX)	RC (Coselgi)			
Auftrags-Inhalt: <i>Order content:</i>	FCC/IC Certification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.215 FCC KDB Publication 447498 v05r02 RSS-Gen Issue 4 November 2014 RSS-102 Issue 4 March 2010				
Wareneingangsdatum: <i>Date of receipt:</i>	20.08.2014				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000091098-010				
Prüfzeitraum: <i>Testing period:</i>	28.08.2014				
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfresultat*: <i>Test result*:</i>	Pass				
geprüft von / tested by:			kontrolliert von / reviewed by:		
22.01.2015	Owen Tian/Senior Project Manager		22.01.2015	Winnie Houn/Technical Certifier	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:	FCC ID: TTY-RCD IC: 5676B-RCD				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

Prüfbericht - Nr.: 17044439 001*Test Report No.***Seite 2 von 20***Page 2 of 20*

TEST SUMMARY

5.1.1 SPURIOUS EMISSION OUTSIDE BAND*RESULT: Pass***5.1.2 99% BANDWIDTH & FIELDSTRENGTH OF FUNDAMENTAL***RESULT: Pass***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS.....	5
2.3	TRACEABILITY	5
2.4	CALIBRATION	5
2.5	MEASUREMENT UNCERTAINTY.....	6
2.6	LOCATION OF ORIGINAL DATA.....	6
2.7	STATUS OF FACILITY USED FOR TESTING.....	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE.....	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	7
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	7
3.5	SUBMITTED DOCUMENTS	8
4.	TEST SET-UP AND OPERATION MODES	9
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	9
4.2	TEST OPERATION AND TEST SOFTWARE	9
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	9
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	9
4.5	TEST SETUP DIAGRAM	10
5.	TEST RESULTS	11
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	11
5.1.1	<i>Spurious Emission outside band.....</i>	<i>11</i>
5.1.2	<i>99% Bandwidth & Fieldstrength of Fundamental.....</i>	<i>16</i>
6.	SAFETY HUMAN EXPOSURE	17
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE.....	17
6.1.1	<i>Electromagnetic Fields.....</i>	<i>17</i>
7.	PHOTOGRAPHS OF THE TEST SET-UP	18
8.	LIST OF TABLES	20
9.	LIST OF PHOTOGRAPHS	20

1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

(Test site Industry Canada No.: 5077A-2)

F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde & Schwarz	CBLU118354 0-01	3791	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESPI-3	100396/003	2015-01-11
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	< ± 0.60 dB
Radiated emission of transmitter, valid up to 12.75 GHz	< ± 4.42 dB
Radiated emission of receiver, valid up to 12.75 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUTs are remote controller used for hearing aid.
These models are identical except the model name and color.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Parameters	Specifications
Modulation	PSK
Frequency	10.6MHz
Channel Bandwidth	400kHz
Extreme Temperature Range	-20 - 60°C
Operation Voltage	DC 3V (via 2 x 'AAA' size battery)
Channel number	1
Antenna gain	2dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

Prüfbericht - Nr.: 17044439 001*Test Report No.***Seite 8 von 20***Page 8 of 20*

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2009. According to clause 3.1, all tests were applied on model RC-DEX only.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

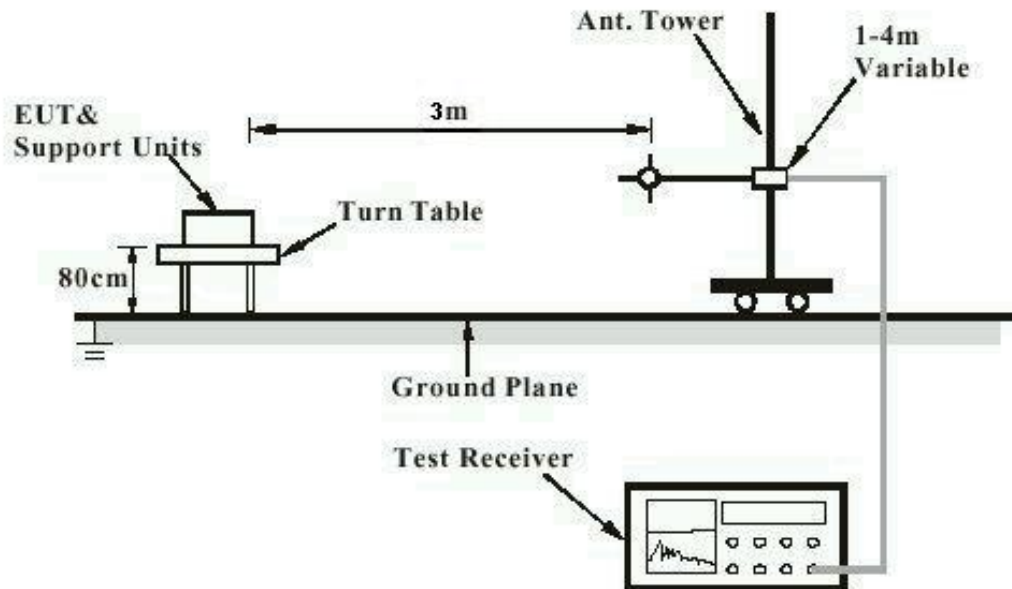
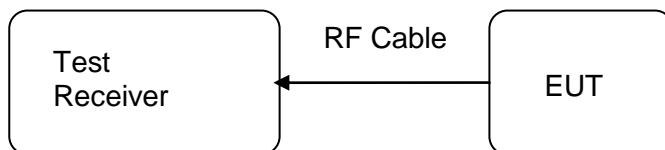


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Spurious Emission outside band

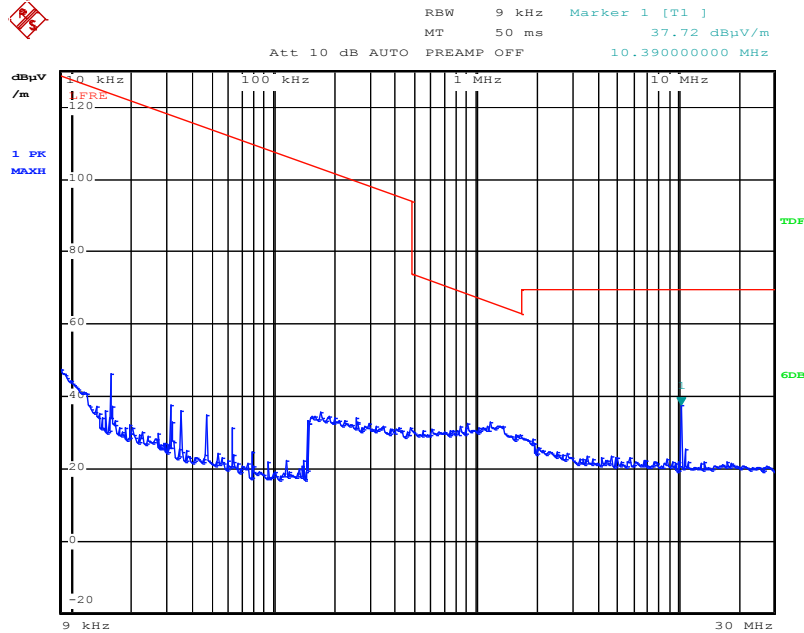
RESULT:**Pass**

Test standard	:	FCC part 15.215 (b) RSS-Gen Issue 4 November 2014
Basic standard	:	ANSI C63.4: 2009
Limits	:	FCC part 15.209 (a)
Kind of test site	:	3m Semi-Anechoic Chamber

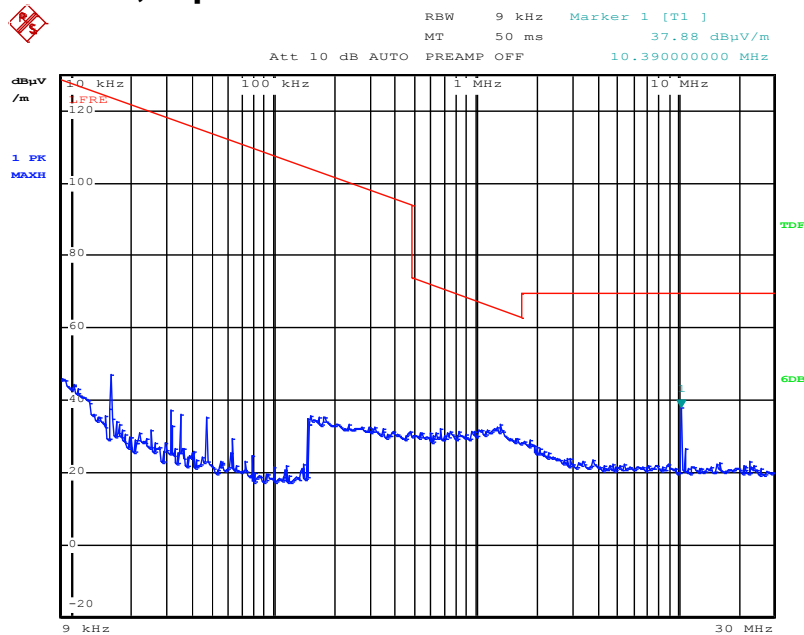
Test setup

Date of testing	:	2014-08-28
Operation mode	:	A
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

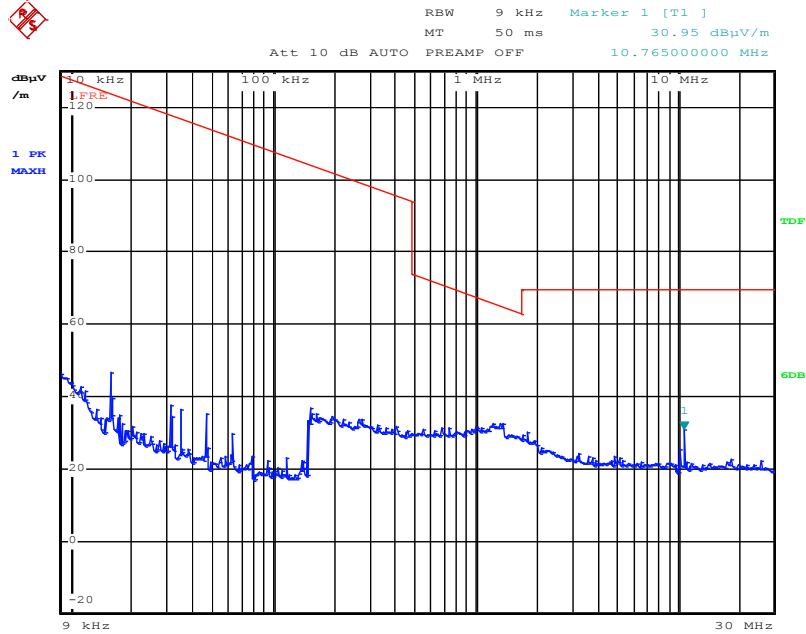
For details refer to following test plot.

**Test Plot of Spurious Emission of transmitter
 Below 30MHz, X polarization:**


Date: 28.AUG.2014 09:02:05

Below 30MHz, Y polarization:


Date: 28.AUG.2014 09:04:19

Below 30MHz, Z polarization:


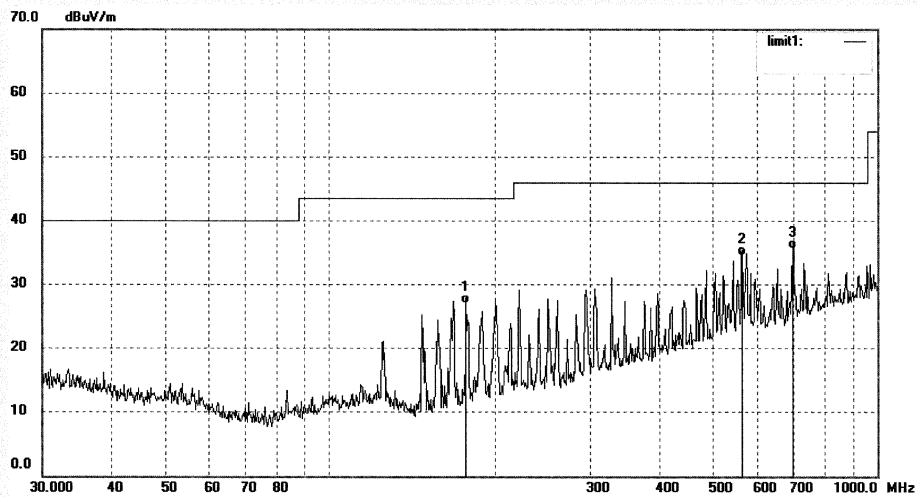
Date: 28.AUG.2014 09:06:20


ACCURATE TECHNOLOGY CO., LTD.
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 2# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: YHP #144	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 14/08/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 8/39/32
EUT: Remote Control for Hearing aid	Engineer Signature:
Mode: TX	Distance: 3m
Model: RC-DEX	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	176.2748	40.57	-13.59	26.98	43.50	-16.52	QP			
2	563.9925	37.88	-3.40	34.48	46.00	-11.52	QP			
3	698.8035	37.41	-1.79	35.62	46.00	-10.38	QP			


ACCURATE TECHNOLOGY CO., LTD.

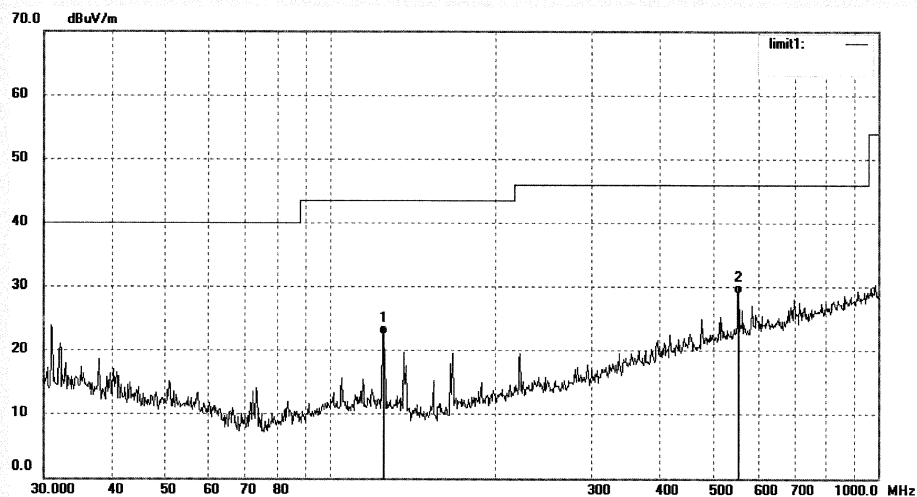
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: YHP #145	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 14/08/28/
Temp.(C)/Hum.(%) 23 C / 48 %	Time: 8/48/26
EUT: Remote Control for Hearing aid	Engineer Signature:
Mode: TX	Distance: 3m
Model: RC-DEX	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	124.9249	36.26	-13.72	22.54	43.50	-20.96	QP			
2	554.1708	32.51	-3.53	28.98	46.00	-17.02	QP			

Prüfbericht - Nr.: 17044439 001
Test Report No.
Seite 16 von 20
Page 16 of 20

5.1.2 99% Bandwidth & Fieldstrength of Fundamental

RESULT:
Pass

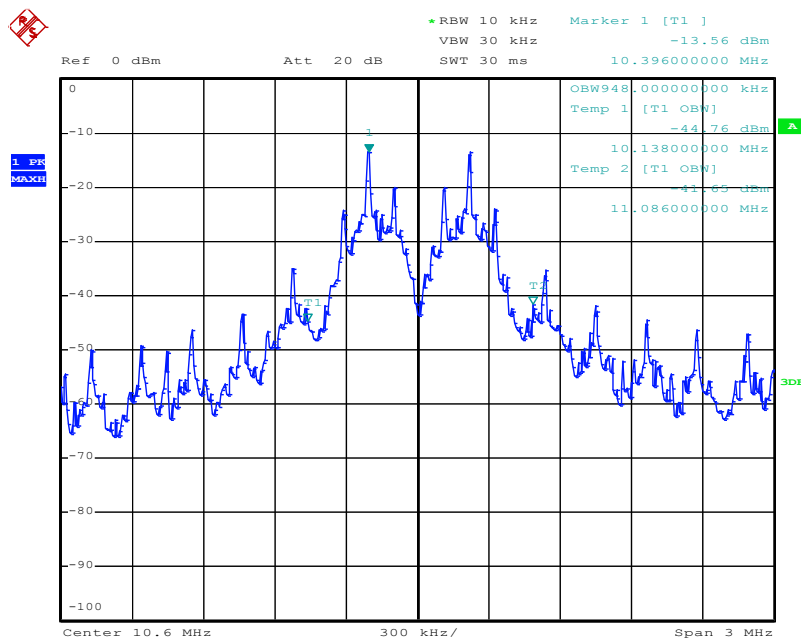
Test standard : FCC part 15.215
 : RSS-Gen Issue 4 November 2014
 Basic standard : ANSI C63.4: 2009
 Kind of test site : Shielded room

Test setup

Date of testing : 2014-08-28
 Operation Mode : A
 Ambient temperature : 24°C
 Relative humidity : 48%
 Atmospheric pressure : 101kPa

Table 4: Test result of 99% Bandwidth

Channel Frequency (MHz)	99% Bandwidth (kHz)	Fieldstrength of Fundamental (dBm)
10.6MHz	948	-13.56



Date: 28.AUG.2014 09:45:29

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

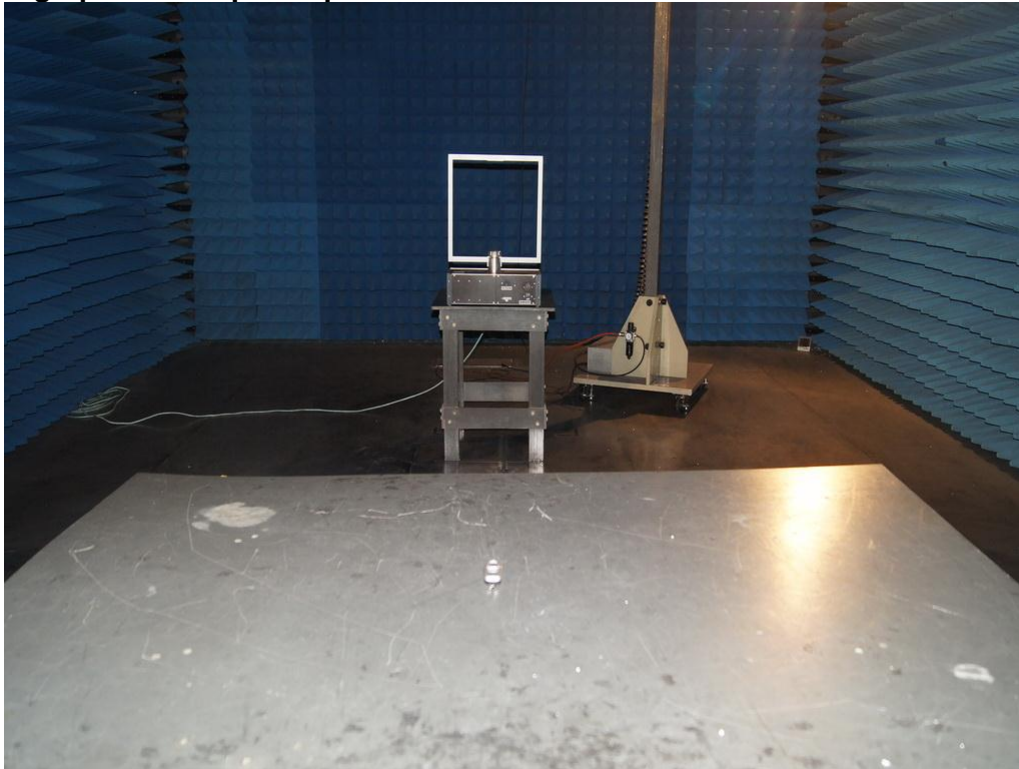
Test standard : RSS-102 Issue 4 March 2010
FCC KDB Publication 447498 D01 v05r02

The maximum peak output power of the transmitter is 0.044mW (-13.56dBm) only, which less than 20mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 4.

Since maximum peak output power of the transmitter is 0.044mW<96mW, and the distance from EUT to human is >50mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

7. Photographs of the Test Set-Up

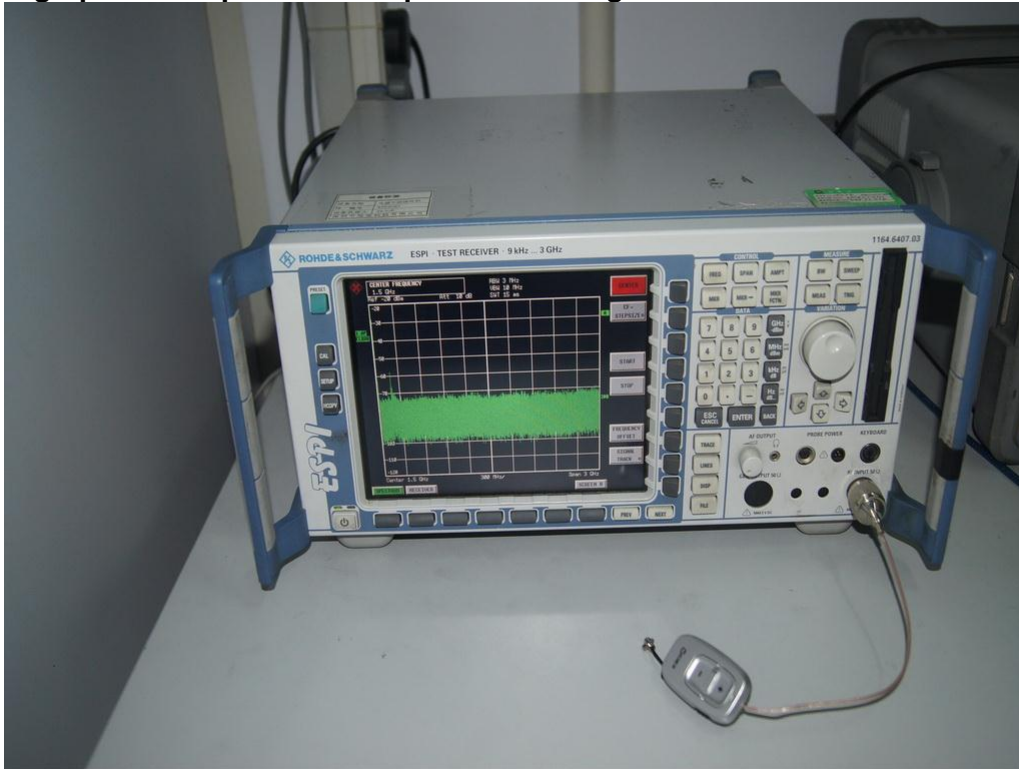
Photograph 1: Set-up for Spurious Emissions for below 30MHz



Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 3: Setup for Radio Spectrum testing



8. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty	6
Table 3: Technical Specification of EUT	7
Table 4: Test result of 99% Bandwidth.....	16

9. List of Photographs

Photograph 1: Set-up for Spurious Emissions for below 30MHz	18
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz	18
Photograph 3: Setup for Radio Spectrum testing.....	19