

FCC - TEST REPORTReport Number : **708881503688-00** Date of Issue: April 16, 2016Model : U4Product Type : BCT Bluetooth HeadsetApplicant : Suzhou YOKO BCT Electronic CorporationAddress : P-48, No.666 Jianlin Road, High tech Zone, Suzhou Jiangsu,
People's Republic of ChinaProduction Facility : Suzhou YOKO BCT Electronic CorporationAddress : P-48, No.666 Jianlin Road, High tech Zone, Suzhou Jiangsu,
People's Republic of ChinaTest Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : 41

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1 Table of Contents

1	Table of Contents.....	2
2	Details about the Test Laboratory	3
3	Description of the Equipment under Test	4
4	Summary of Test Standards.....	5
5	Summary of Test Results	6
6	General Remarks	7
7	Test Setups	8
8	Systems test configuration	11
9	Technical Requirement	12
9.1	Conducted Emission.....	12
9.2	Conducted peak output power	15
9.3	6dB bandwidth and 99% Occupied Bandwidth	16
9.4	Power spectral density.....	18
9.5	Spurious RF conducted emissions	20
9.6	Band edge	25
9.7	Spurious radiated emissions for transmitter.....	31
10	Test Equipment List	33
11	System Measurement Uncertainty	34
12	Photographs of Test Set-ups	35
13	Photographs of EUT	38



2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: MRT Technology (Suzhou) Co., Ltd
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Suzhou, China
FCC Registration Number: 809388
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3 Description of the Equipment under Test

Description of the Equipment Under Test

Product: BCT Bluetooth Headset

Model no.: U4

FCC ID: 2AG8AYKU4A

Options and accessories:

Rating: 5V, 150mA DC battery

RF Transmission Frequency: 2402~2480MHz

No. of Operated Channel: 40

Modulation: GFSK

Duty Cycle: 24%

Antenna Type: PCB

Antenna Gain: 0dBi

Description of the EUT: Bluetooth Headset

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2014 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 DTS Meas Guidance v03r04 and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C,						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	12	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247 (b) (1)	Conducted peak output power	15	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(a)(1)	20dB bandwidth	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)	Carrier frequency separation	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Dwell Time	---	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	16	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(e)	Power spectral density	18	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Spurious RF conducted emissions	20	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Band edge	25	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	31	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.203	Antenna requirement	See note 1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a permanently PCB Antenna, which gain is 0dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AG8AYKU4A complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 18, 2015

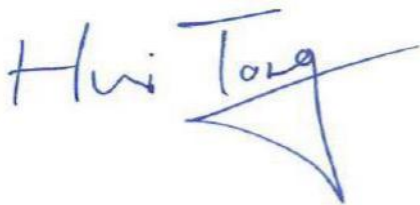
Testing Start Date: December 19, 2015

Testing End Date: January 28, 2016

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:



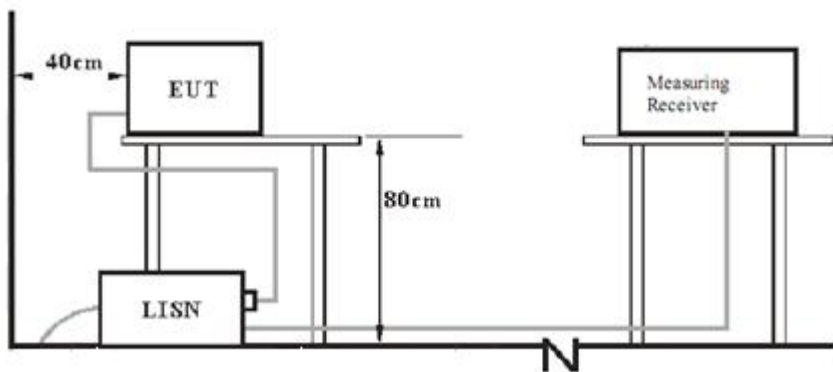
Hui TONG
Review Engineer



Wenwen CHEN
Project Engineer

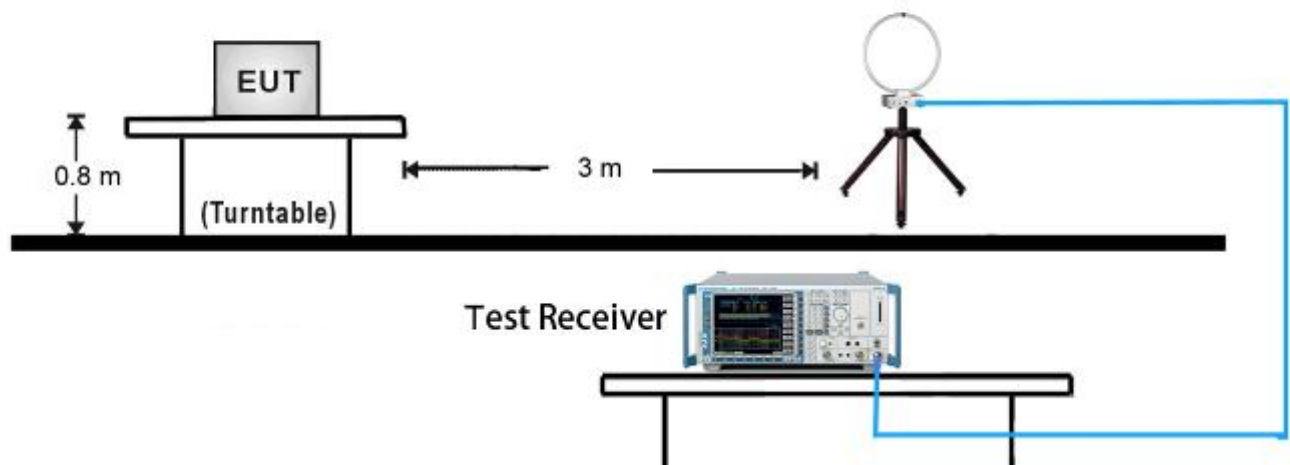
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

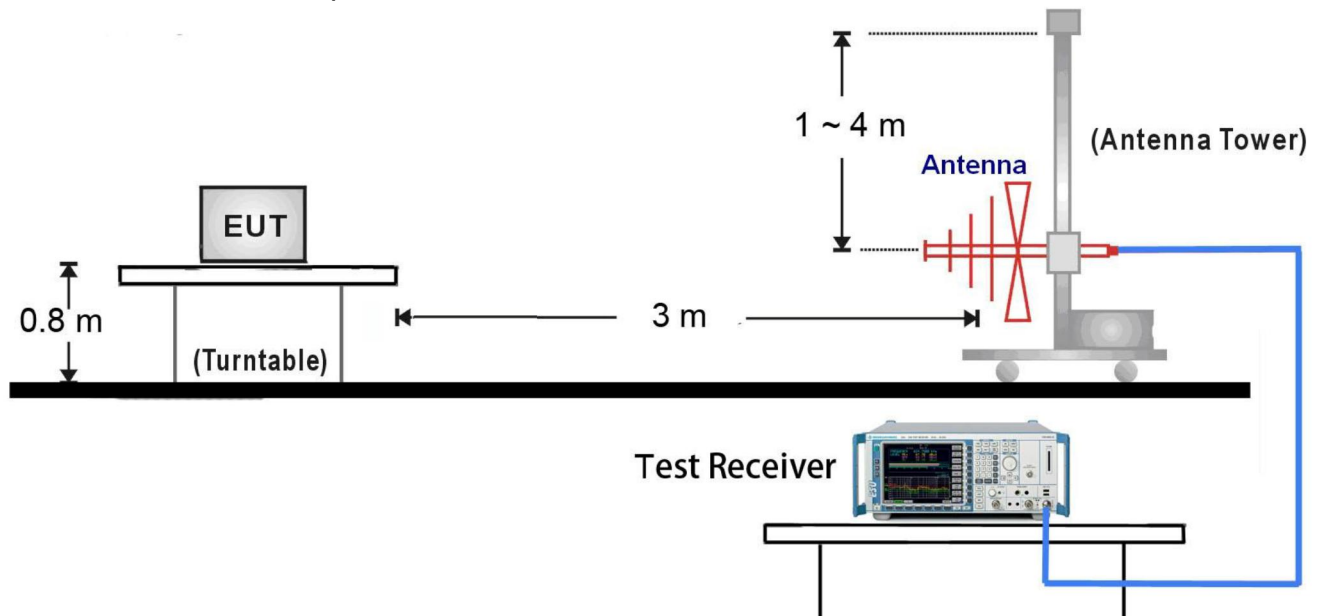


7.2 Radiated test setups

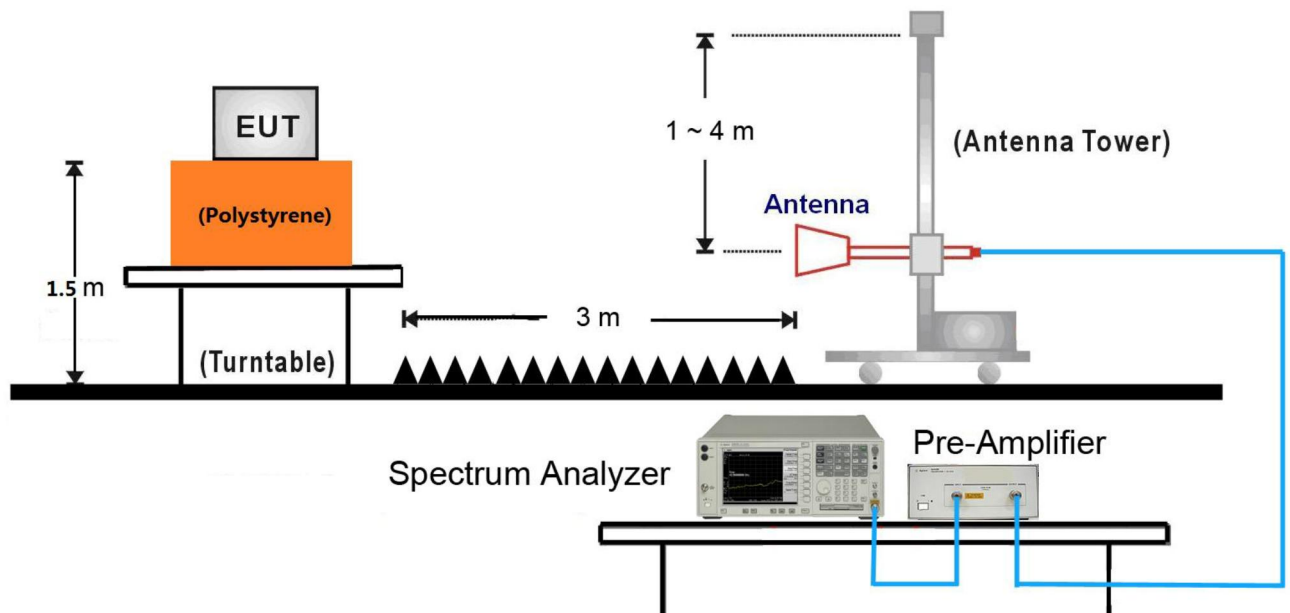
9kHz ~ 30MHz Test Setup:



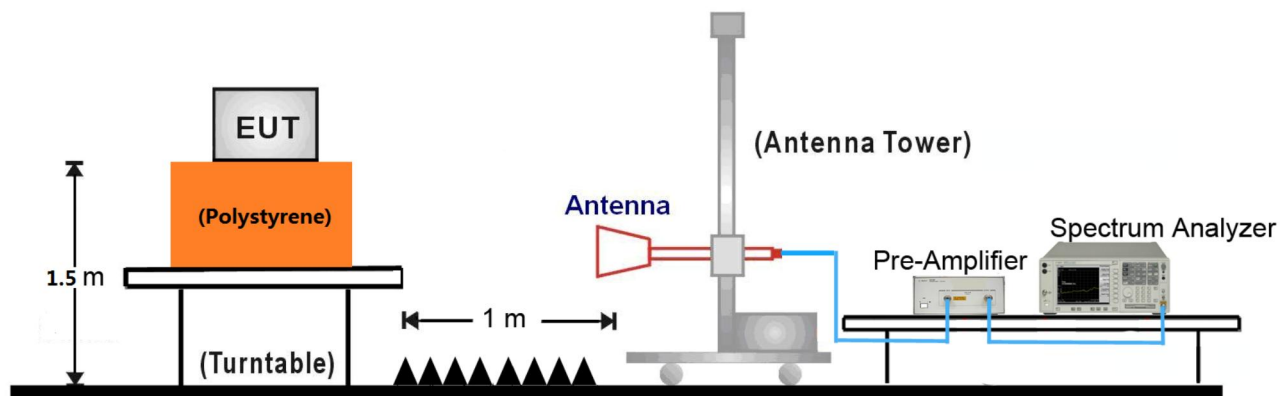
30MHz ~ 1GHz Test Setup:



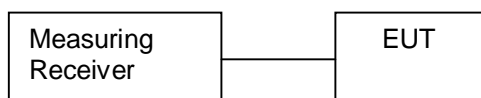
1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.3 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Laptop	Lenovo	X230	---

Test software: BlueTest 3, which used to control the EUT in continues transmitting mode

The system was configured to channel 0, 19, and 39 for the test.

9 Technical Requirement

9.1 Conducted Emission

Test Method

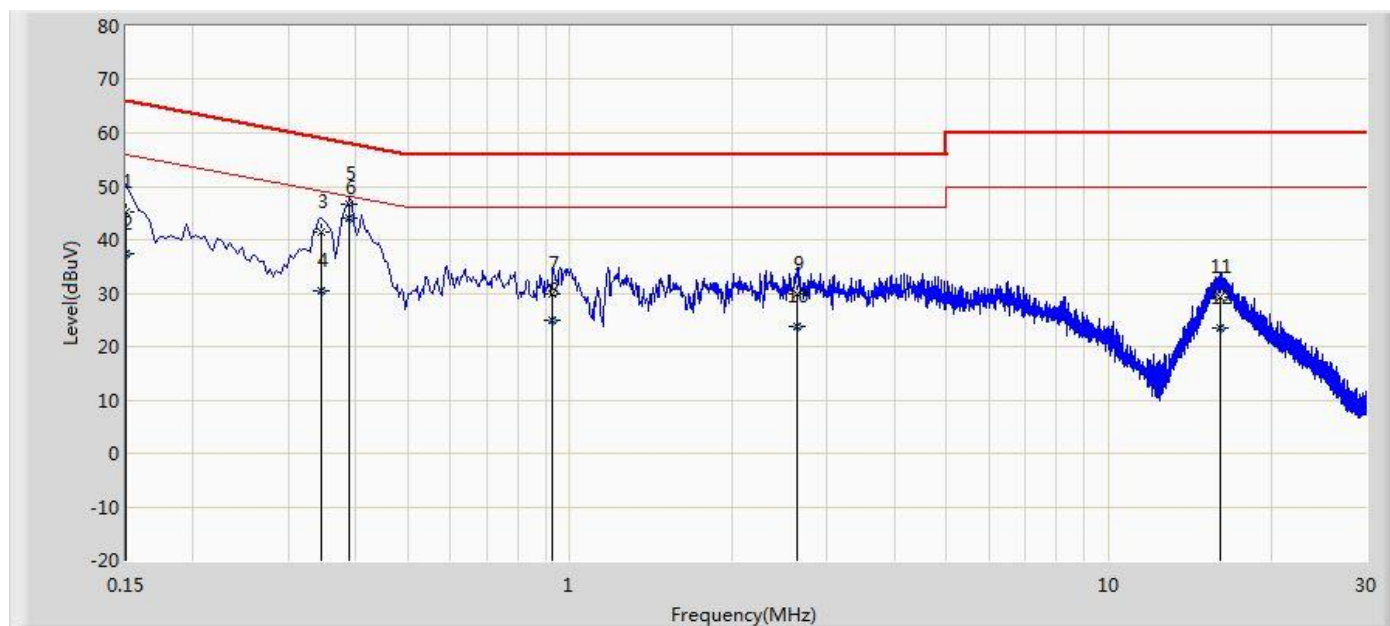
1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

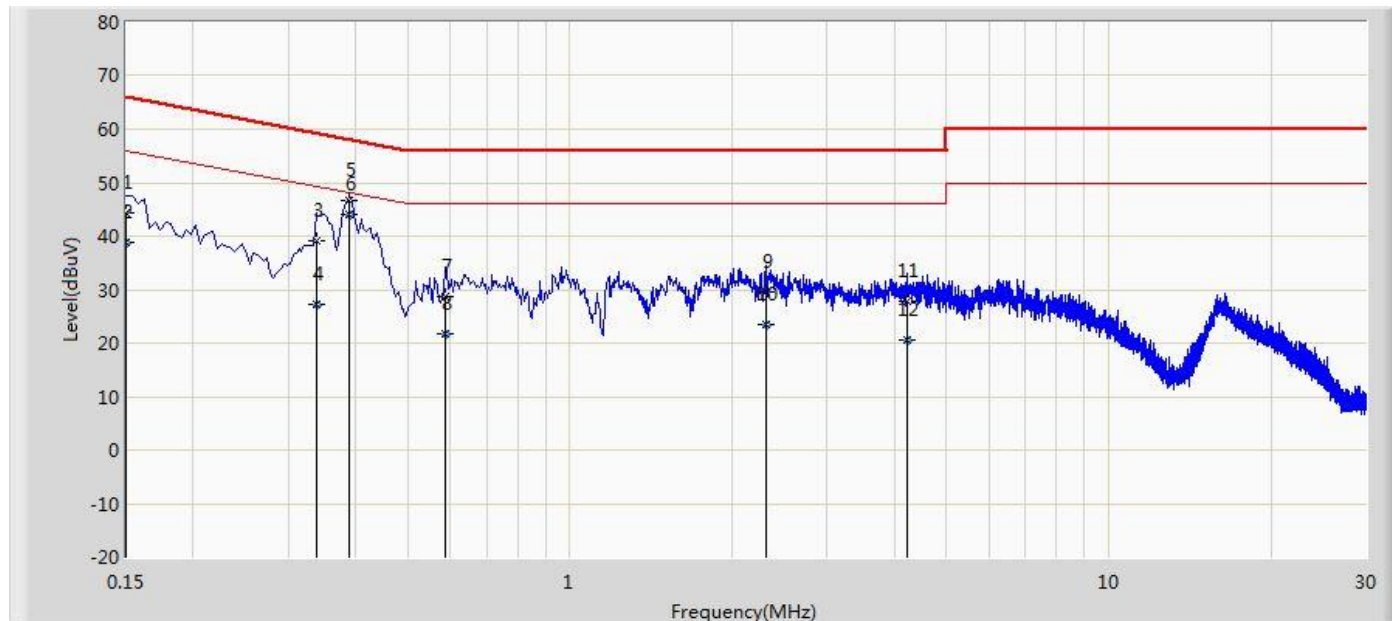
Decreasing linearly with logarithm of the frequency

Product Type : BCT Bluetooth Headset
 M/N : U4
 Operating Condition : Transmit on
 Test Specification : FCC_Part15.207_CE_AC Power
 Comment : AC 120V/60Hz, Line



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	45.118	33.949	-20.882	66.000	11.168	QP
2			0.150	37.402	26.234	-18.598	56.000	11.168	AV
3			0.346	41.401	31.359	-17.657	59.058	10.041	QP
4			0.346	30.302	20.261	-18.756	49.058	10.041	AV
5			0.390	46.698	36.621	-11.366	58.064	10.077	QP
6		*	0.390	44.142	34.065	-3.921	48.064	10.077	AV
7			0.930	29.824	19.880	-26.176	56.000	9.944	QP
8			0.930	25.071	15.126	-20.929	46.000	9.944	AV
9			2.638	29.722	19.869	-26.278	56.000	9.852	QP
10			2.638	23.760	13.908	-22.240	46.000	9.852	AV
11			16.086	29.308	19.235	-30.692	60.000	10.073	QP
12			16.086	23.414	13.341	-26.586	50.000	10.073	AV

Product Type : BCT Bluetooth Headset
 M/N : U4
 Operating Condition : Transmit on
 Test Specification : FCC_Part15.207_CE_AC Power
 Comment : AC 120V/60Hz, Neutral



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	44.426	33.284	-21.574	66.000	11.142	QP
2			0.150	38.785	27.643	-17.215	56.000	11.142	AV
3			0.338	39.161	29.095	-20.091	59.252	10.066	QP
4			0.338	27.276	17.211	-21.976	49.252	10.066	AV
5			0.390	46.525	36.420	-11.539	58.064	10.105	QP
6		*	0.390	43.986	33.881	-4.078	48.064	10.105	AV
7			0.586	28.613	18.474	-27.387	56.000	10.139	QP
8			0.586	21.830	11.691	-24.170	46.000	10.139	AV
9			2.314	29.661	19.795	-26.339	56.000	9.866	QP
10			2.314	23.357	13.491	-22.643	46.000	9.866	AV
11			4.214	27.949	17.964	-28.051	56.000	9.985	QP
12			4.214	20.537	10.552	-25.463	46.000	9.985	AV

9.2 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
RBW > the 6 dB bandwidth of the emission being measured, VBW \geq 3RBW, Span \geq 3RBW
Sweep = auto, Detector function = peak, Trace = max hold.
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Limits

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test result as below table

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	7.14	Pass
Middle channel 2440MHz	8.13	Pass
High channel 2480MHz	8.67	Pass

9.3 6dB bandwidth and 99% Occupied Bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=100K, VBW \geq 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

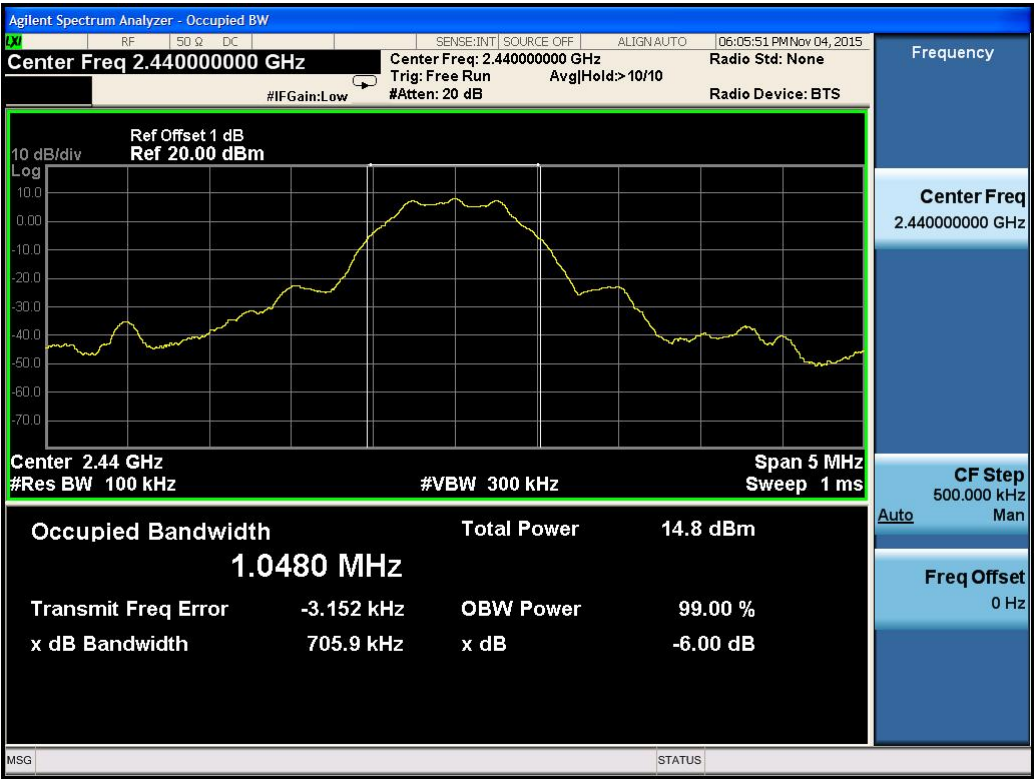
Limit [kHz]

≥ 500

Test result

Frequency MHz	6dB bandwidth kHz	99% Bandwidth kHz	Result
Top channel 2402MHz	701.2	1049.5	Pass
Middle channel 2440MHz	705.9	1048	Pass
Bottom channel 2480MHz	703.6	1046.9	Pass





9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. Set analyzer center frequency to DTS channel center frequency.
RBW=3kHz,VBW≥3RBW,Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 3. Repeat above procedures until other frequencies measured were completed.

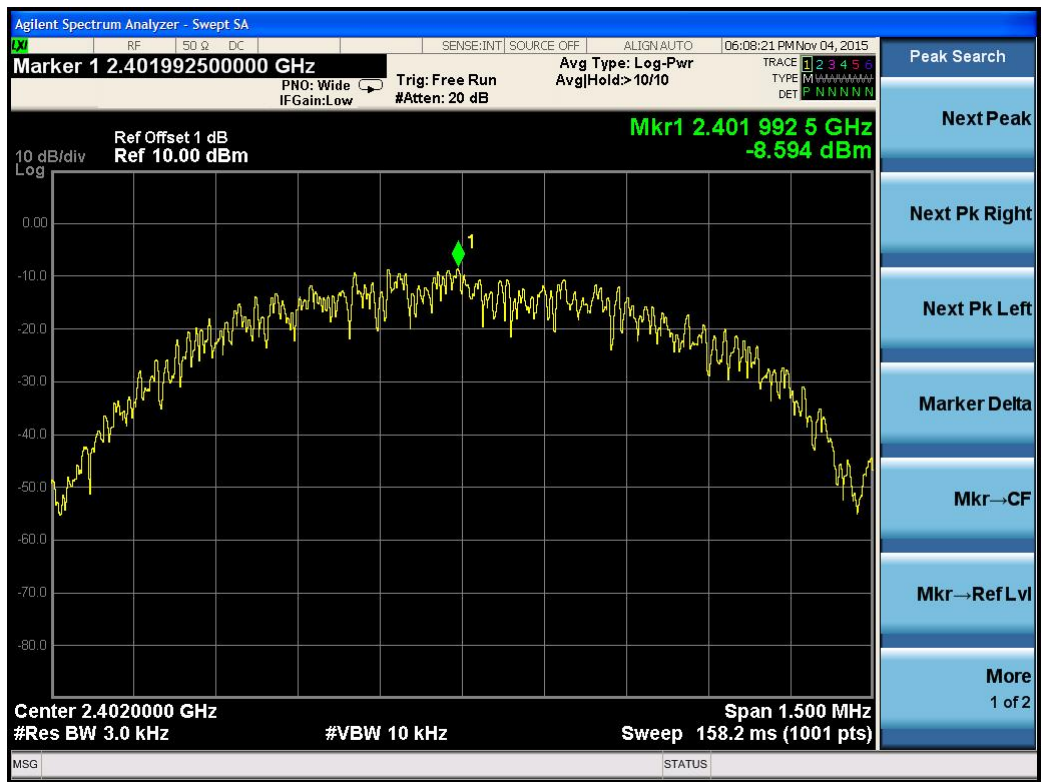
Limit

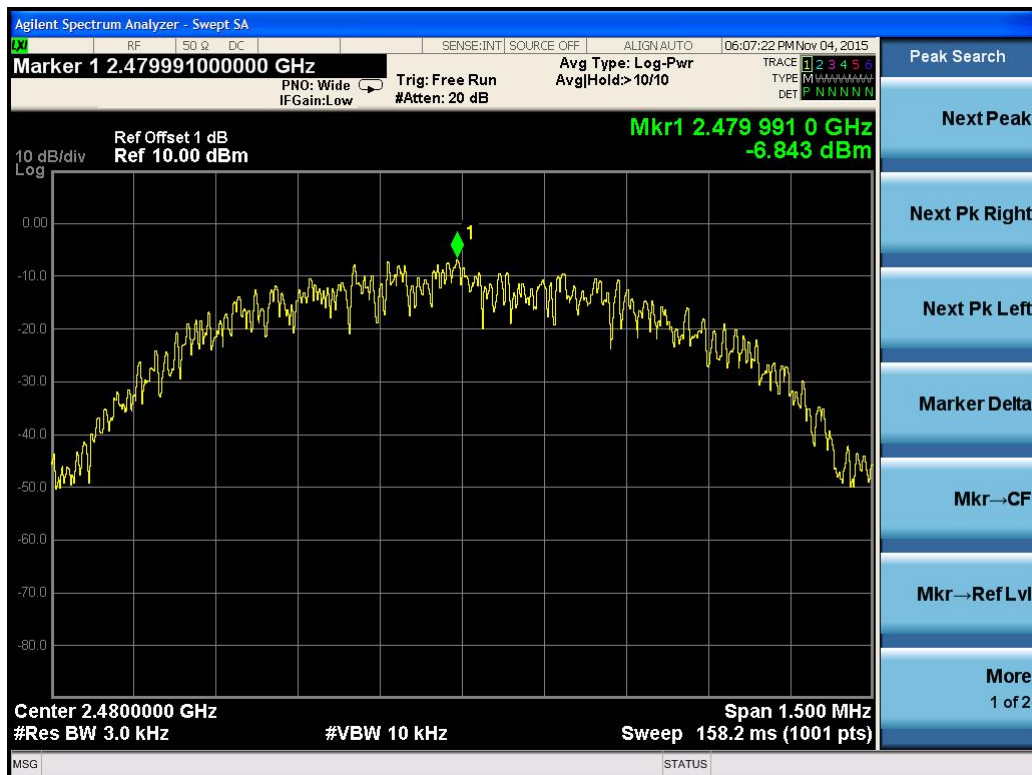
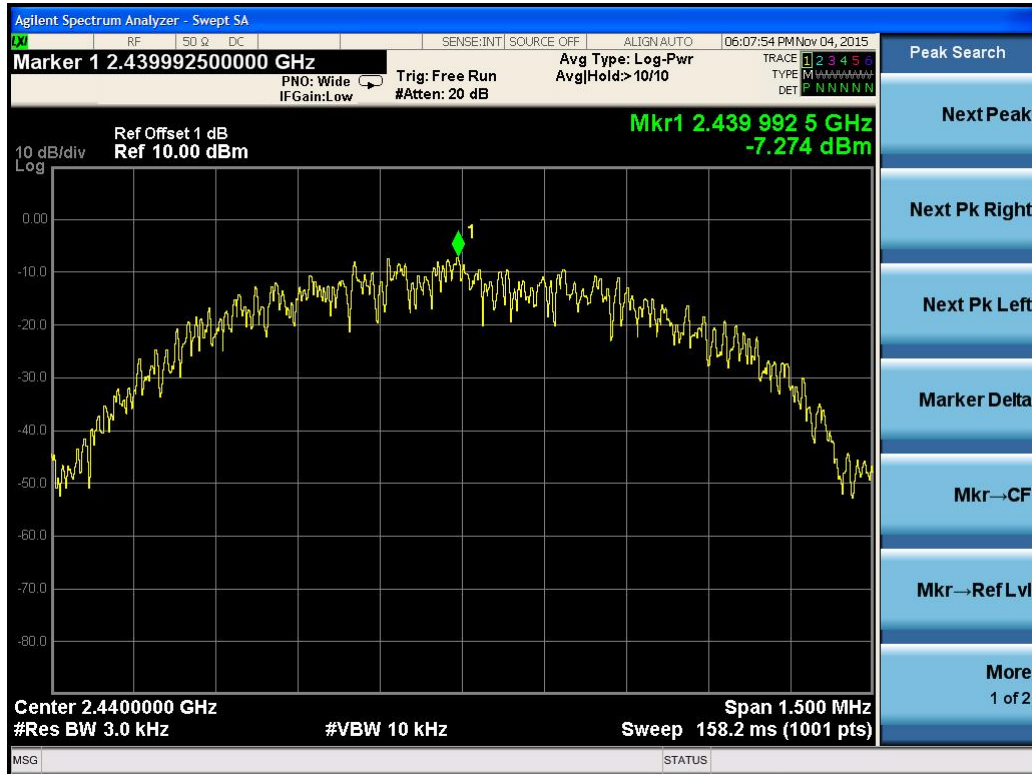
Limit [dBm]

≤8

Test result

Frequency MHz	Power spectral density dBm	Result
Top channel 2402MHz	-8.594	Pass
Middle channel 2440MHz	-7.274	Pass
Bottom channel 2480MHz	-6.843	Pass





9.5 Spurious RF conducted emissions

Test Method

1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW \geq 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

100 kHz PSD reference Level

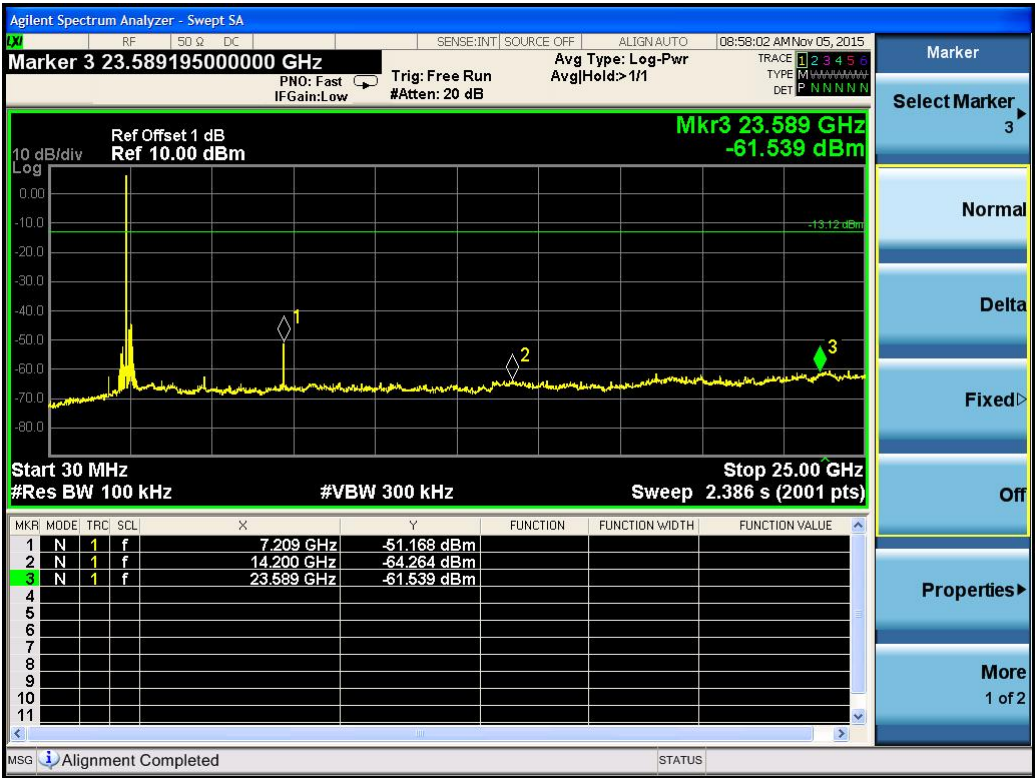




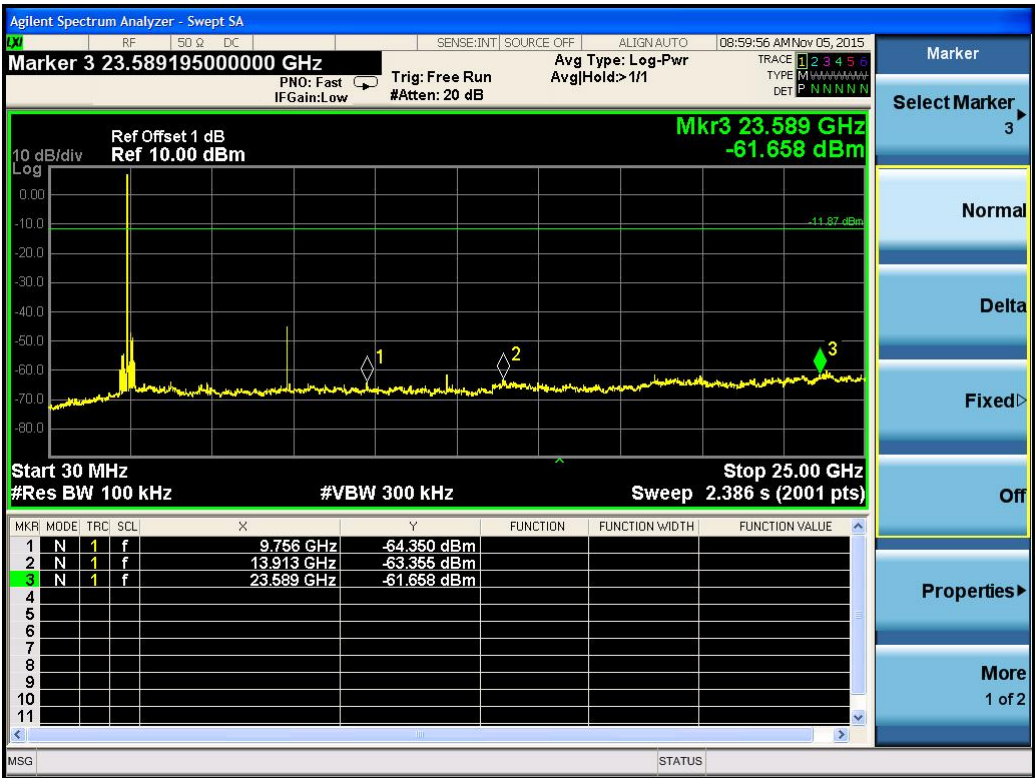


Spurious RF conducted emissions

2402MHz

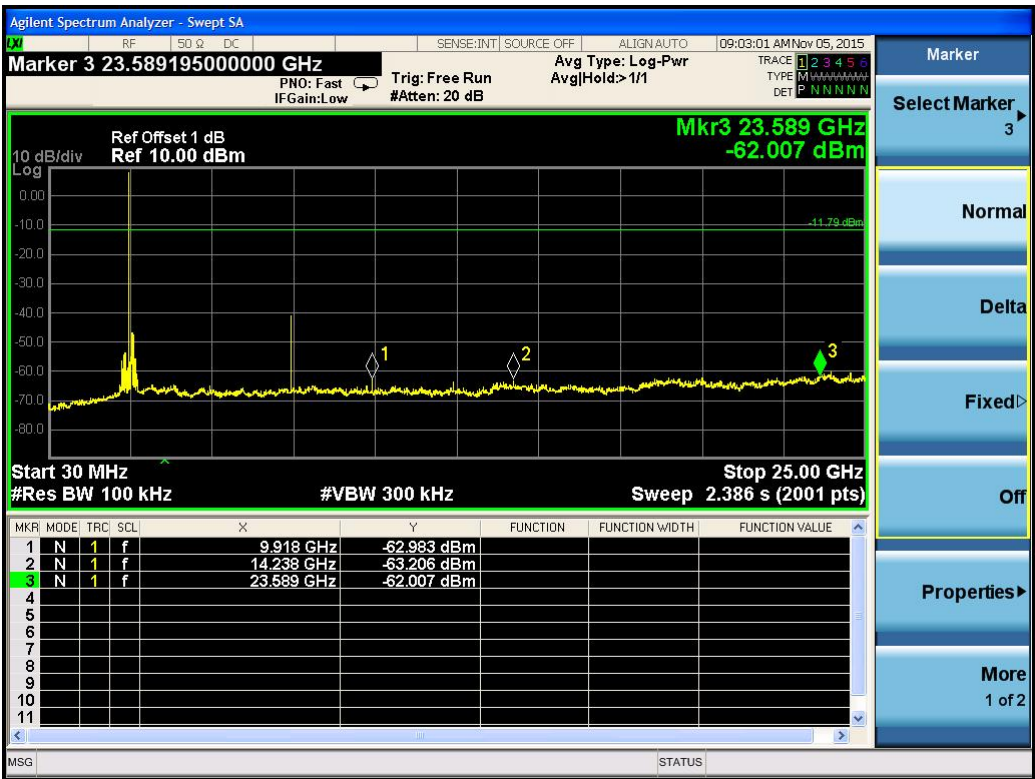


2440MHz





2480MHz



9.6 Band edge

Test Method

- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

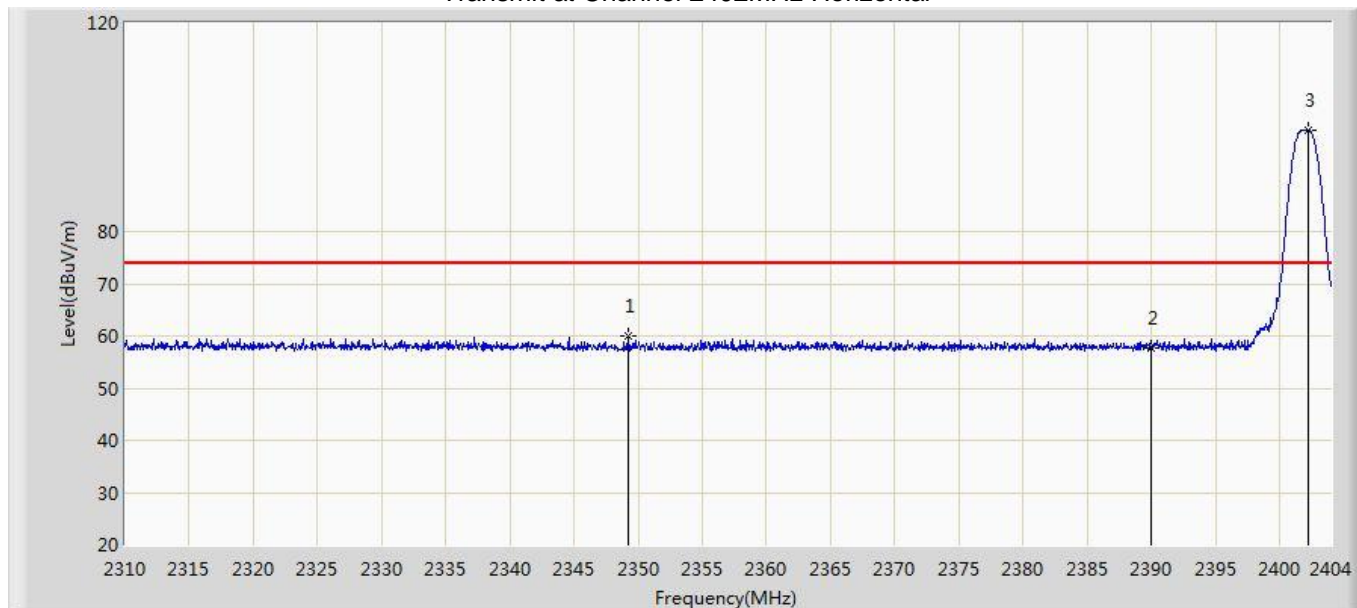
Limit

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen8.10, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

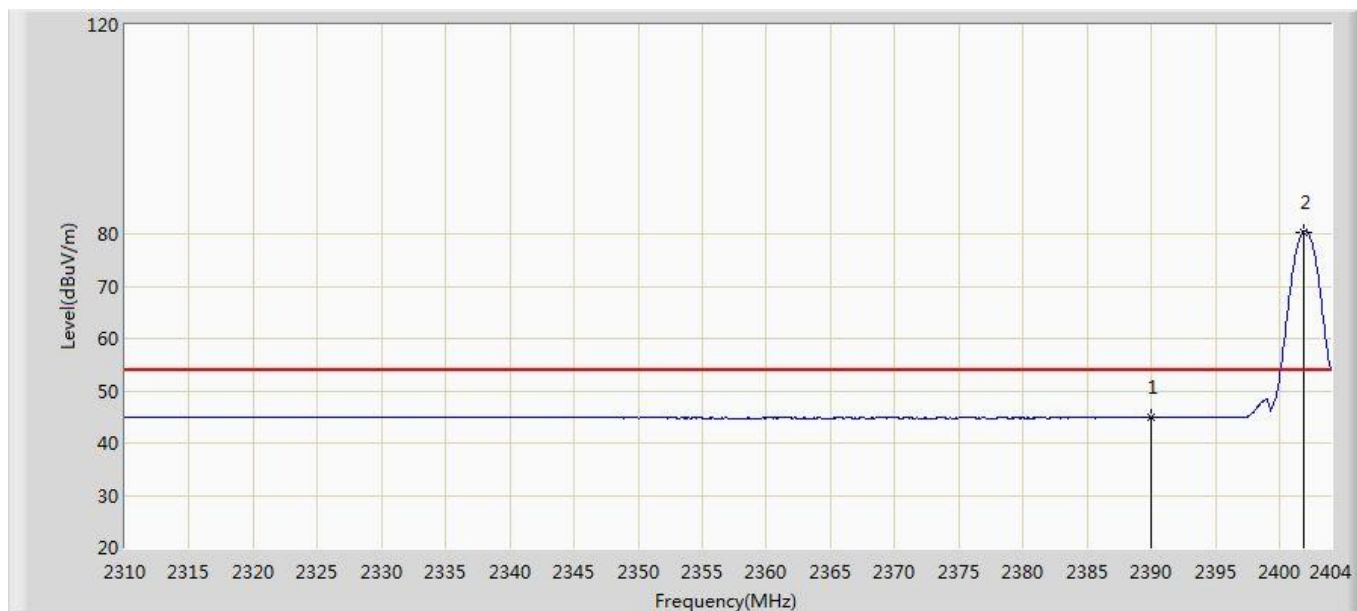
Test result



Transmit at Channel 2402MHz Horizontal

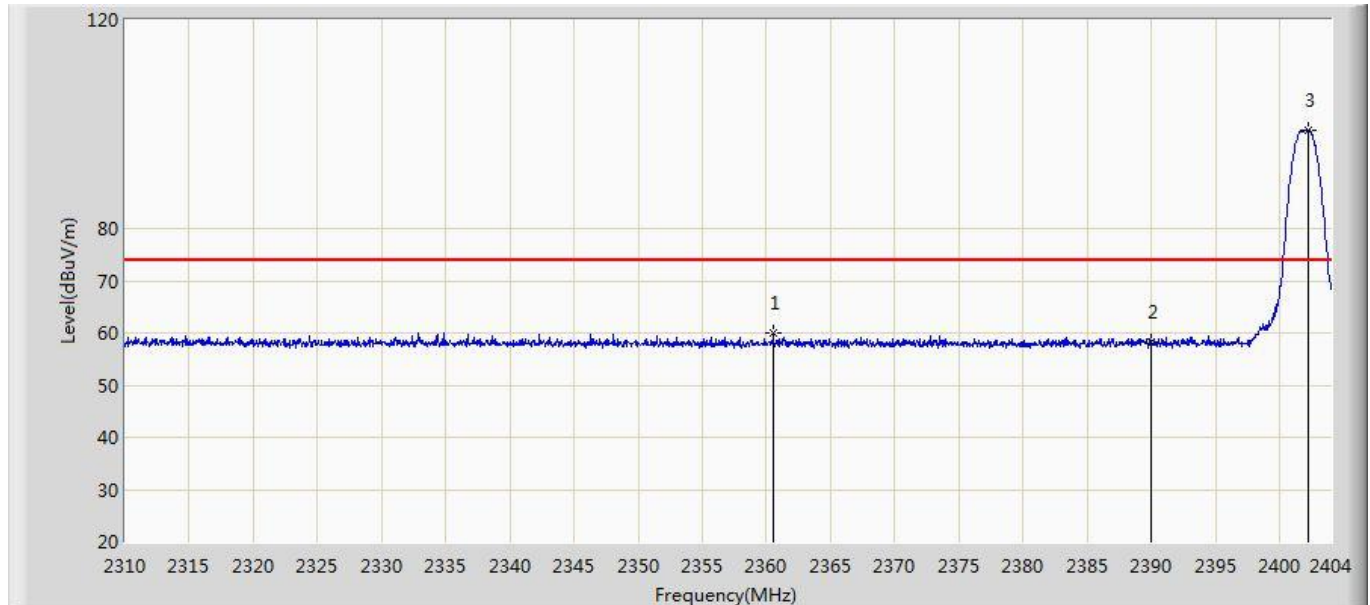


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2349.198	59.937	28.641	-14.063	74.000	31.296	PK
2			2390.000	57.742	26.539	-16.258	74.000	31.203	PK
3		*	2402.214	99.493	68.309	N/A	N/A	31.184	PK

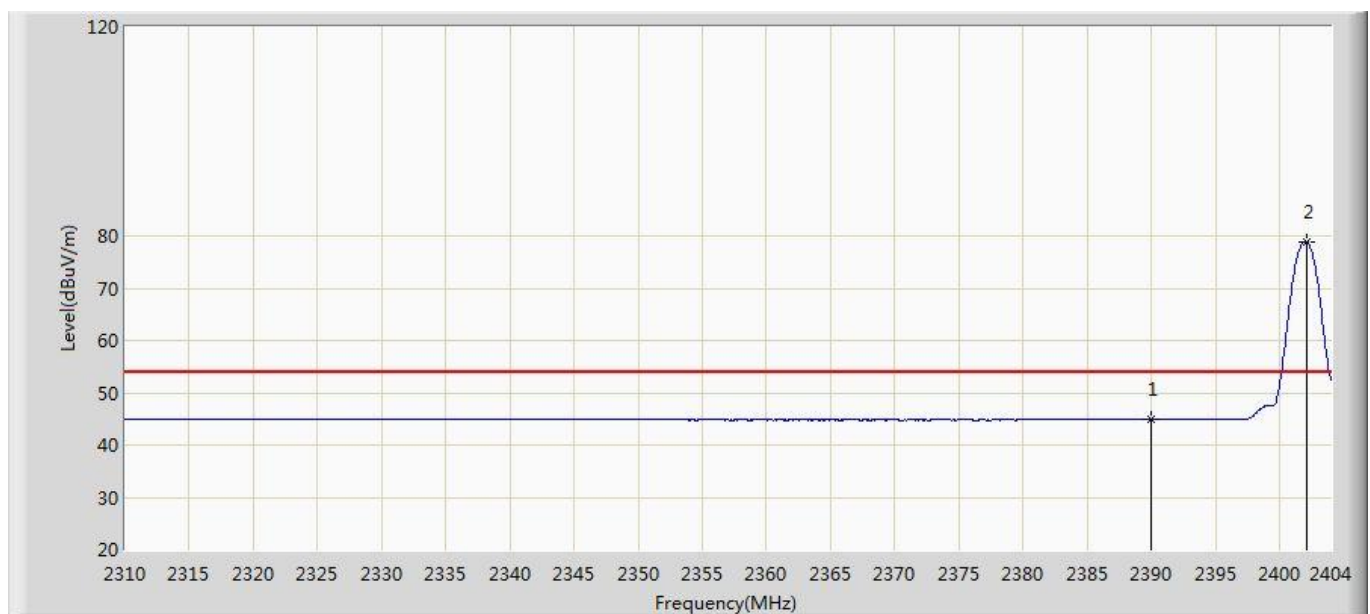


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.834	13.631	-9.166	54.000	31.203	AV
2		*	2401.885	80.411	49.227	N/A	N/A	31.184	AV

Transmit at Channel 2402MHz Vertical

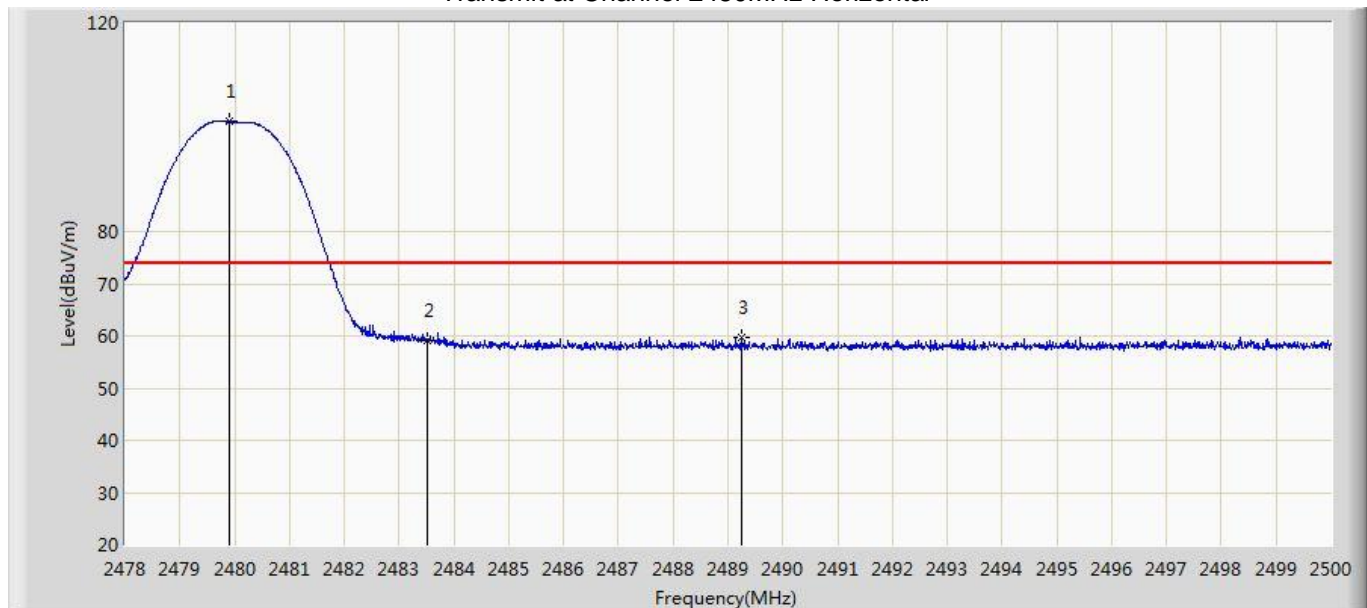


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2360.525	59.965	28.707	-14.035	74.000	31.257	PK
2			2390.000	58.318	27.115	-15.682	74.000	31.203	PK
3		*	2402.214	98.834	67.650	N/A	N/A	31.184	PK

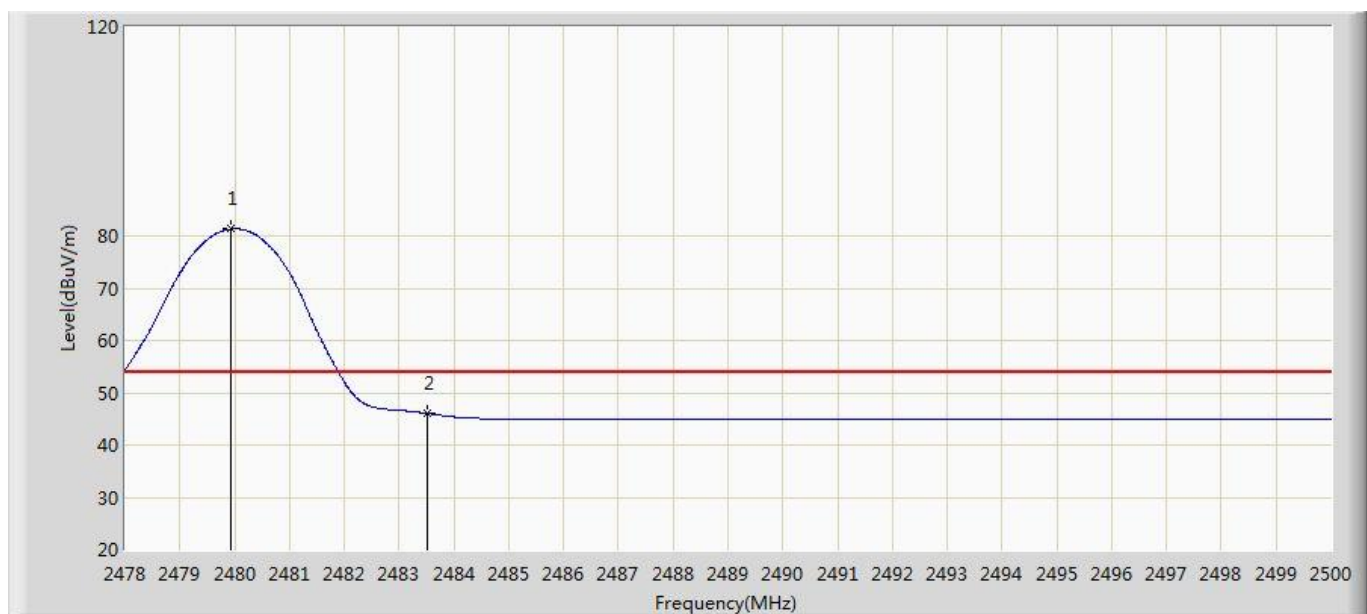


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.835	13.632	-9.165	54.000	31.203	AV
2		*	2402.073	78.967	47.783	N/A	N/A	31.184	AV

Transmit at Channel 2480MHz Horizontal

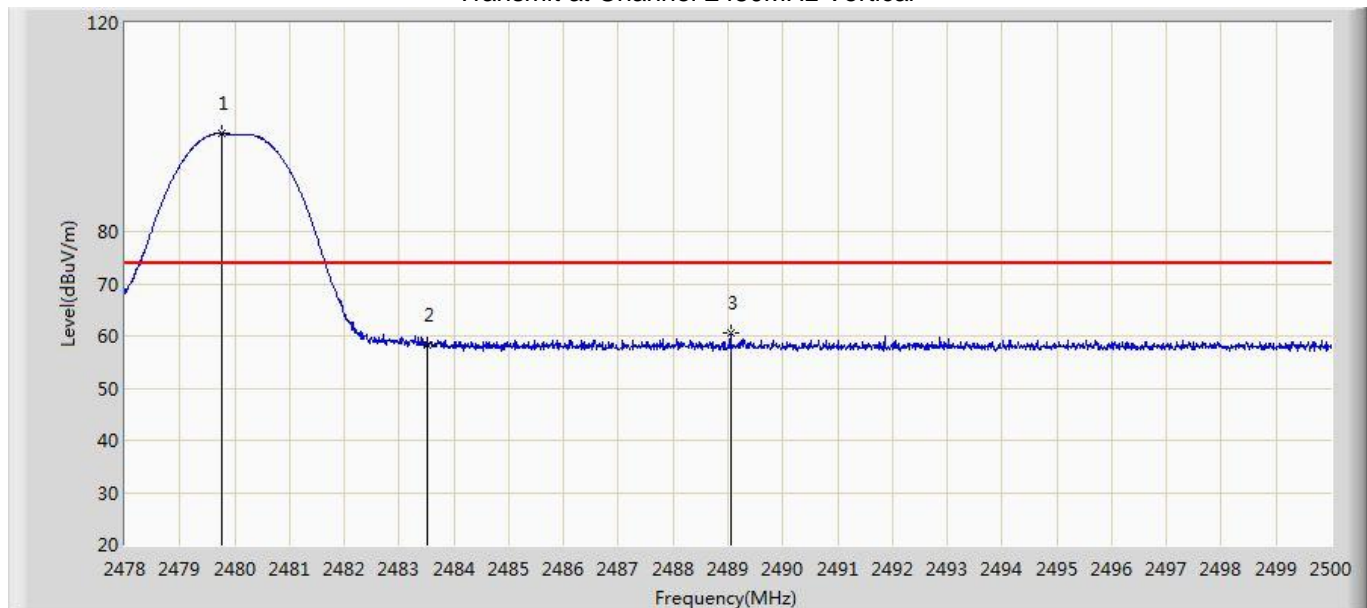


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.903	101.025	69.841	N/A	N/A	31.184	PK
2			2483.500	59.245	28.052	-14.755	74.000	31.194	PK
3			2489.242	59.626	28.418	-14.374	74.000	31.208	PK

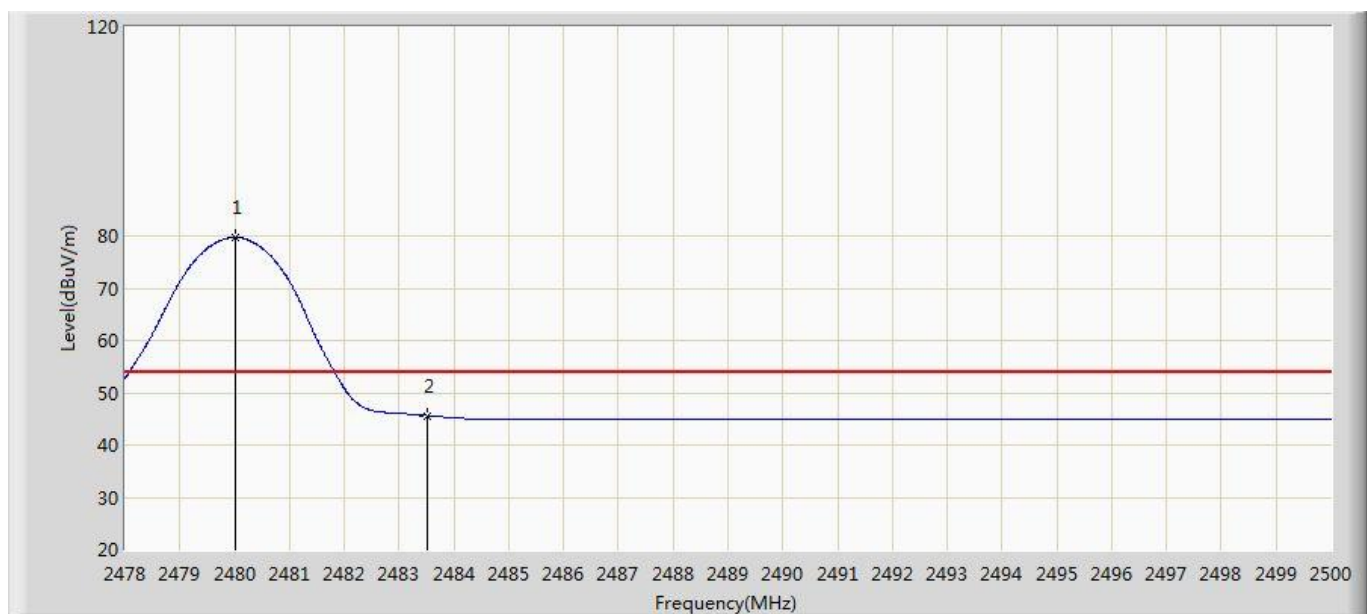


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.936	81.343	50.159	N/A	N/A	31.184	AV
2			2483.500	46.067	14.874	-7.933	54.000	31.194	AV

Transmit at Channel 2480MHz Vertical



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.771	98.735	67.551	N/A	N/A	31.184	PK
2			2483.500	58.153	26.960	-15.847	74.000	31.194	PK
3			2489.044	60.454	29.246	-13.546	74.000	31.208	PK



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.002	79.690	48.506	N/A	N/A	31.184	AV
2			2483.500	45.647	14.454	-8.353	54.000	31.194	AV

9.7 Spurious radiated emissions for transmitter

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-1992 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{duty cycle}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limit

The radio emission outside the operating frequency band 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.

Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

2402MHz

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Detector	Margin dBuV/m	Result
4799.5	45.642	H	74	PK	-28.358	Pass
7205	53.598	H	74	PK	-20.402	Pass
4799.5	41.707	V	74	PK	-32.293	Pass
7205	52.085	V	74	PK	-21.915	Pass

2440MHz

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Detector	Margin dBuV/m	Result
4876	48.783	H	74	PK	-25.217	Pass
7315.5	53.817	H	74	PK	-20.183	Pass
4876	45.62	V	74	PK	-28.38	Pass
7315.5	51.174	V	74	PK	-22.826	Pass

2480MHz

Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Detector	Margin dBuV/m	Result
4961	48.615	H	74	PK	-25.385	Pass
7443	52.417	H	74	PK	-21.583	Pass
4961	45.722	V	74	PK	-28.278	Pass
7443	51.417	V	74	PK	-22.583	Pass

Remark:

- (1) AV Emission Level= PK Emission Level+20log (dutycycle)
- (2) Data of measurement within 30-1000MHz frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20db below the permissible limits or the field strength is too small to be measured.
- (3) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

10 Test Equipment List

List of Test Instruments

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2016/11/03
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2016/11/03
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06114	1 year	2016/11/20

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	E4447A	MRTSUE06028	1 year	2016/12/08
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2016/11/03
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2016/04/16
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2016/03/29
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2016/12/14
TRILOG Antenna	Schwarzbeck	VULB9162	MRTSUE06022	1 year	2016/11/07
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2016/11/07
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2016/01/05
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06115	1 year	2016/11/20

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2016/05/08
USB Wideband Power Sensor	Boonton	55006	MRTSUE06109	1 year	2016/05/08
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06112	1 year	2016/11/20

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth
- 20dB bandwidth and 99% Occupied Bandwidth
- Carrier frequency separation
- Number of hopping frequencies
- Dwell Time
- Power spectral density*
- Spurious RF conducted emissions
- Band edge

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

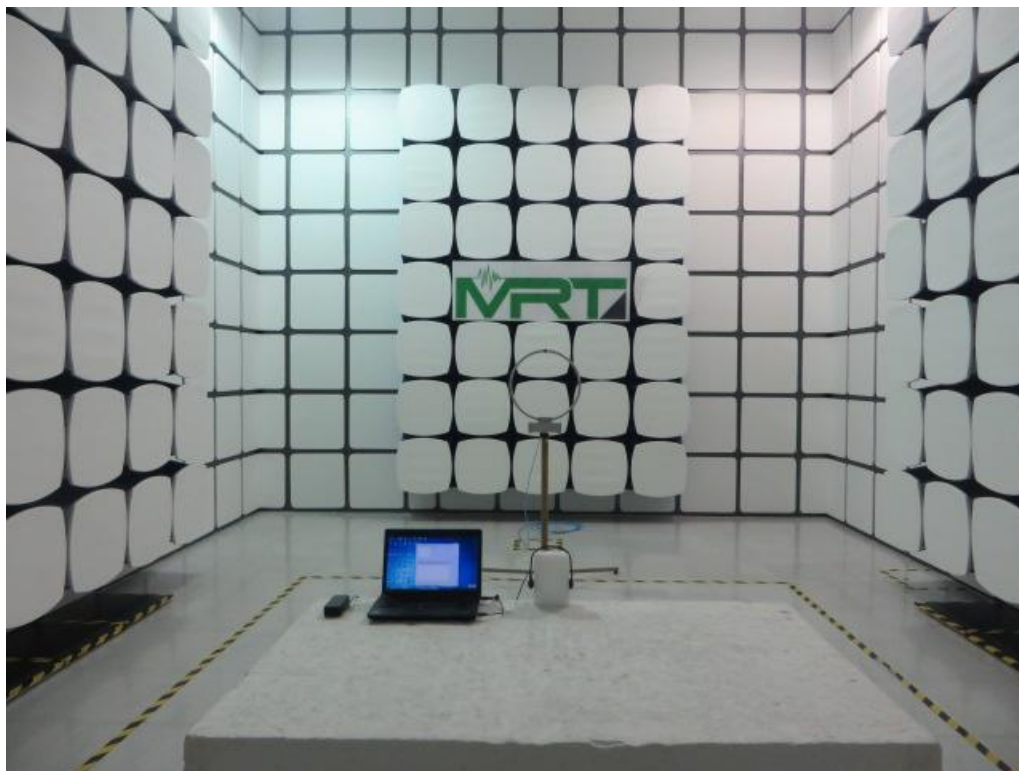
System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-1000MHz	4.18dB
Uncertainty for Radiated Emission in 3m chamber 1000MHz-40000MHz	4.76dB
Uncertainty for Conducted Emission 150KHz-30MHz	3.46dB

12 Photographs of Test Set-ups

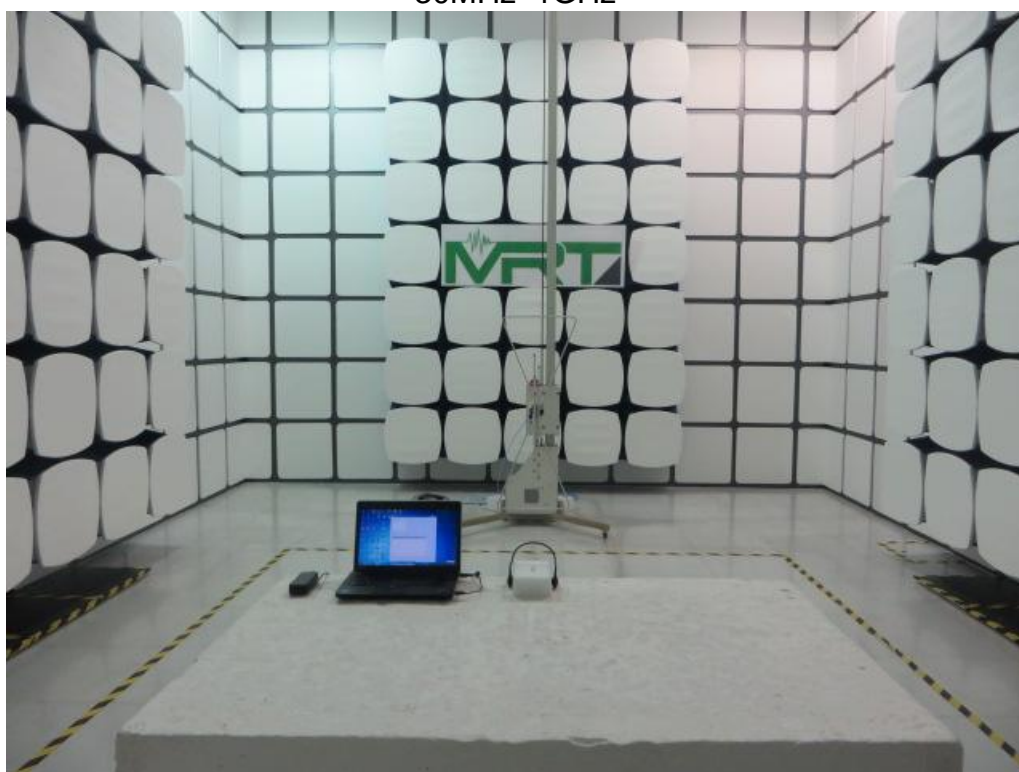
Conducted Emission Setup



Radiated Emission Setup
9k~30MHz



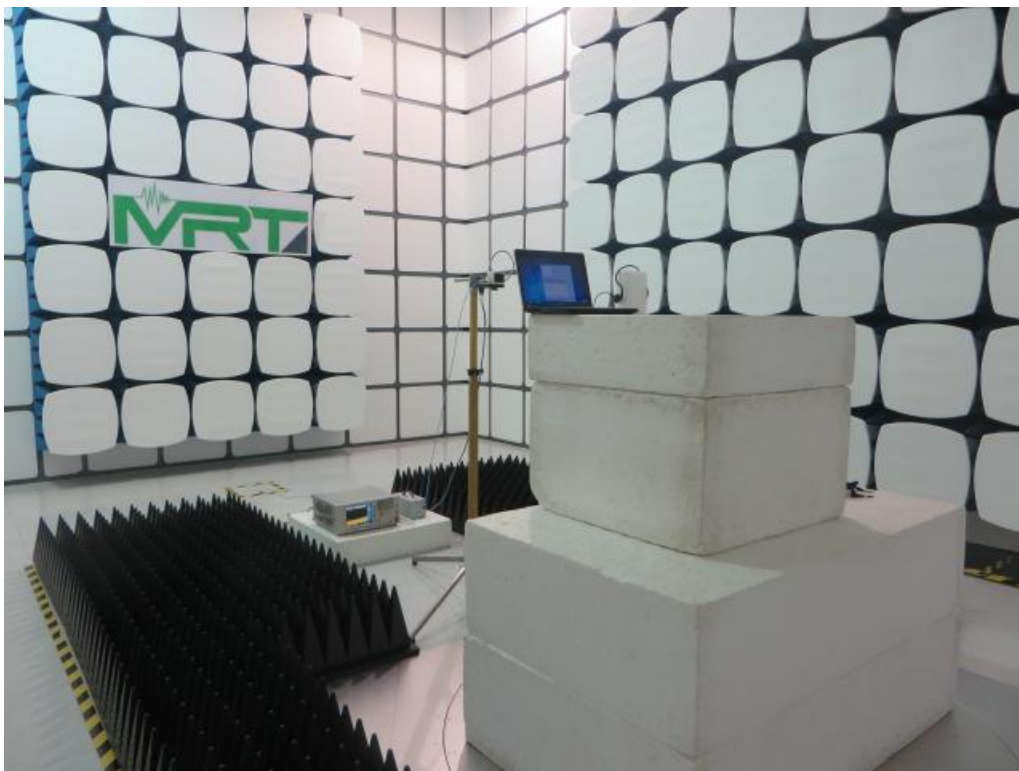
30MHz~1GHz



1GHz~18GHz



18GHz~40GHz



13 Photographs of EUT

External Photographs





Internal Photographs

