FCC TEST REPORT

FOR

Green Momit S.L

Cool

Test Model: COOL_REVD

Additional Model No.: COOL_REVE, COOL_REVF

Prepared for Green Momit S.L

Address C/Golfo de Salonica n 27, 2 B., 2 B.Madrid 28033, Spain

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

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Date of receipt of test sample May 24, 2016

Number of tested samples

Sample number : 16052805

Date of Test : May 24, 2016 - June 23, 2016

Date of Report : June 23, 2016

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.249): 2015

Report Reference No.: LCS1605242199E

Date of Issue: June 23, 2016

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards

Partial application of Harmonised standards \Box

Other standard testing method \Box

Applicant's Name: Green Momit S.L

Address: C/Golfo de Salonica n 27, 2 B., 2 B.Madrid 28033, Spain

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.249): 2014 / ANSI C63.10: 2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: Cool

Trade Mark: Momit

Test Model.....: COOL REVD

Ratings....: DC 4.5V by 3 AA Batteries

Result: Positive

Compiled by:

Supervised by:

Approved by:

Ada Liang/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

June 23, 2016 Test Report No.: LCS1605242199E Date of issue

Test Model.....: : COOL_REVD EUT....:: Cool Applicant.....: : Green Momit S.L Address.....: C/Golfo de Salonica n 27, 2 B., 2 B.Madrid 28033, Spain Telephone.....: : / Fax.....:: : / Manufacturer.....: : Green Momit S.L Address.....: C/Golfo de Salonica n 27, 2 B., 2 B.Madrid 28033, Spain Telephone....: : / Fax....:: : / Factory.....: : Green Momit S.L Address.....: C/Golfo de Salonica n 27, 2 B., 2 B.Madrid 28033, Spain Telephone.....:: / Fax.....:: : /

Test Result Positive

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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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Cool

Test Model : COOL REVD

Hardware Version : REVD

Software Version : 2.4/920 Radio Firmware v20160524

: DC 4.5V by 3 AA Batteries Power Supply

: 2405.00-2480.00MHz (2405MHz, 2445MHz, 2480MHz) Frequency Range

922.2MHz, 926.6MHz

Channel Number : 3 Channels

Channel Spacing **:** 5MHz

Modulation Type : OQPSK

Antenna Description : PCB Antenna, 3.3dBi(Max.)

Additional model	s No.		
COOL_REVE	COOL_REVF		
D 1 DCD 1	1	1 (.1 11/)	.1 C

Remark: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate

1.3. External I/O

I/O Port Description	Quantity	Cable

1.4. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. 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 LCS 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.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	3.10dB	(1)
Dediction Uncertainty		30MHz~200MHz	2.96dB	(1)
Radiation Uncertainty	•	200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	4.00dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

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

1.7. Description Of Test Modes

The EUT operates in the unlicensed ISM band at 2.4GHz. The following operating modes were applied for the related test items.

All test modes were tested, only the result of the worst case was recorded in the report. The EUT is considered a portable unit and was set to transmit at 100% duty cycle. It was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane.

Mode of Operations	Transmitting Frequency (MHz)	
	(IVIIIZ)	
	2405	
OQPSK	2445	
	2480	
For Conduct	red Emission	
Test Mode	TX Mode	
For Radiate	ed Emission	
Test Mode	TX Mode	

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be TX-Low Channel (2405MHz).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX-Low Channel(2405MHz).

***Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Power Line Conducted Emissions	N/A
\$15.205(a), \$15.209(a), \$15.249(a), \$15.249(c)	Radiated Emissions Measurement	Compliant
§15.249	Band Edges Measurement	Compliant
§15.249, §15.215	20 dB Bandwidth	Compliant

Note: Because this device is use battery supply, so §15.207(a) not applicable.

5. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	EMC Receiver	R&S	ESCS 30	100174	2016-06-18	2017-06-17
2	Signal analyzer	Agilent	E4448A(Exte rnal mixers to 40GHz)	US44300469	2016-07-16	2017-07-15
3	LISN	MESS Tec	NNB-2/16Z	99079	2016-06-18	2017-06-17
4	LISN (Support Unit)	EMCO	3819/2NM	9703-1839	2016-06-18	2017-06-17
5	RF Cable-CON	UTIFLEX	3102-26886-4	CB049	2016-06-18	2017-06-17
6	ISN	SCHAFFNER	ISN ST08	21653	2016-06-18	2017-06-17
7	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03СН03-НҮ	2015-06-18	2017-06-17
8	Amplifier	SCHAFFNER	COA9231A	18667	2016-06-18	2017-06-17
9	Amplifier	Agilent	8449B	3008A02120	2016-07-16	2017-07-15
10	Amplifier	MITEQ	AMF-6F-260 400	9121372	2016-07-16	2017-07-15
11	Spectrum Analyzer	Agilent	E4407B	MY41440292	2016-07-16	2017-07-15
12	MAX Signal Analyzer	Agilent	N9020A	MY50510140	2016-10-27	2017-10-26
13	Loop Antenna	R&S	HFH2-Z2	860004/001	2016-06-18	2017-06-17
14	By-log Antenna	SCHWARZBE CK	VULB9163	9163-470	2016-06-10	2017-06-09
15	Horn Antenna	EMCO	3115	6741	2016-06-10	2017-06-09
16	Horn Antenna	SCHWARZBE CK	BBHA9170	BBHA9170154	2016-06-10	2017-06-09
17	RF Cable-R03m	Jye Bao	RG142	CB021	2016-06-18	2017-06-17
18	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03СН03-НҮ	2016-06-18	2017-06-17
19	Power Meter	R&S	NRVS	100444	2016-06-18	2017-06-17
20	Power Sensor	R&S	NRV-Z51	100458	2016-06-18	2017-06-17
21	Power Sensor	R&S	NRV-Z32	10057	2016-06-18	2017-06-17
22	RF CABLE-1m	JYE Bao	RG142	CB034-1m	2016-06-18	2017-06-17
23	RF CABLE-2m	JYE Bao	RG142	CB035-2m	2016-06-18	2017-06-17

6. ANTENNA REQUIREMENT

6.1. Standard Applicable

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 use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is 3.3dBi, and the antenna is connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Result: Compliance.

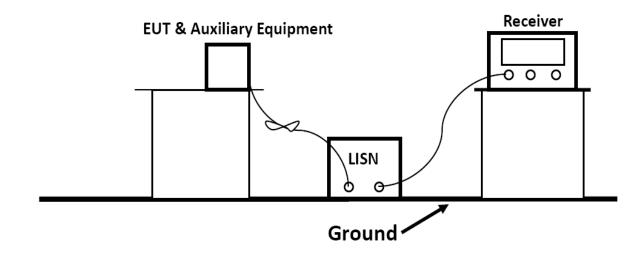
7. LINE CONDUCTED EMISSIONS

7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Engage av Donge (MIII)	Limits (dB	uV)
Frequency Range(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

7.2 Block Diagram of Test Setup



7.3 Test Results

Not Applicable (Not Applicable(Because this device is use battery supply, so §15.207(a) not applicable.)

8. RADIATED EMISSION MEASUREMENT

8.1. Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation. 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental Frequency	Field Strength of fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

8.2. Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1000KHz / 1000KHz for peak

8.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0 °to 315 °using 45 °steps.
- --- The antenna height is 0.8 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0 ° to 360 °) and by rotating the elevation axes (0 ° to 360 °).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with OPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^{\circ}$) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 12.75 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from $0\,^{\circ}$ to $315\,^{\circ}$ using $45\,^{\circ}$ steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height is 1.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0° to 360 °). This measurement is repeated for different EUT-table positions (0 ° to 150 ° in 30 °-steps). This procedure is repeated for both antenna polarisations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 12.75 GHz

Setup:

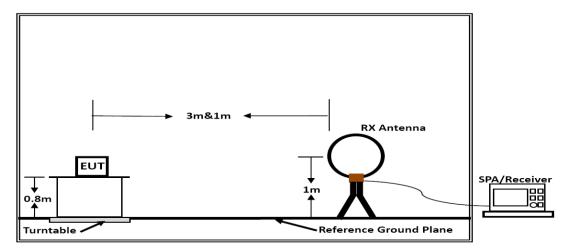
- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

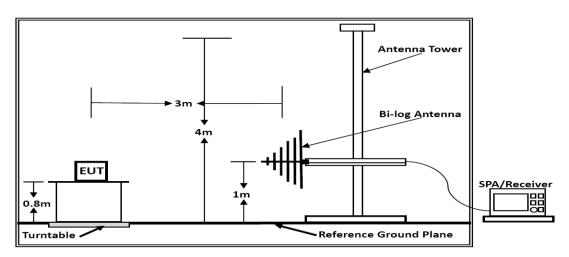
--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and RMS detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

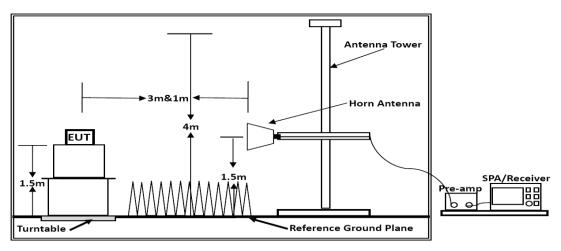
8.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

8.5. Test Results

Results of Radiated Emissions (9kHz~30MHz)

Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

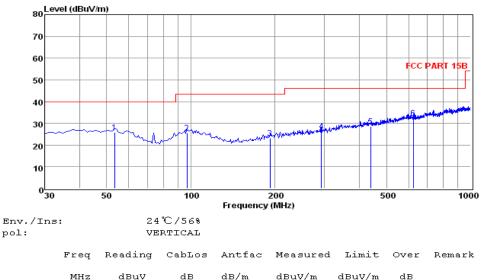
Note:

The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

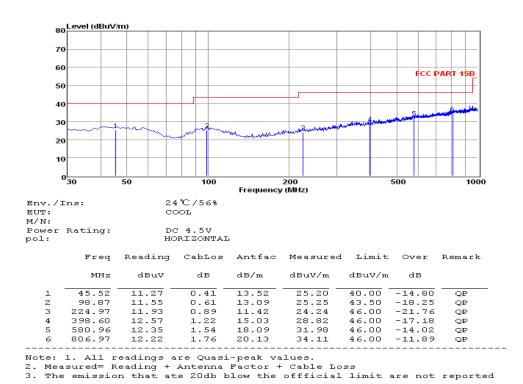
Results of Radiated Emissions (30MHz~1000MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Kyle Yin	Test Date	June 20, 2016
Test Mode	TX-2405MHz		



	1109	110441119	Capioo		Houbaroa	111111111111111111111111111111111111111	0.01	nomarn
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	53.28	12.20	0.46	13.10	25.76	40.00	-14.24	QP
2	96.93	11.99	0.61	12.96	25.56	43.50	-17.94	QP
3	191.99	11.89	0.76	10.56	23.21	43.50	-20.29	QP
4	292.87	12.39	1.08	12.92	26.39	46.00	-19.61	QP
5	438.37	11.62	1.41	15.55	28.58	46.00	-17.42	QP
6	623.64	12.44	1.49	18.54	32.47	46.00	-13.53	QP

- Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the offficial limit are not reported



***Note: Pre-scan all mode and recorded the worst case results in this report (TX- 2405MHz).

8.6. Results for Radiated Emissions (Above 1GHz)

Field Strength Of Fundamental (TX-2405MHz)									
Frequency (MHz)	- · · POLL Result								
2405	Н	93.54	83.47	114	94	Pass			
2405	V	92.16	82.65	114	94	Pass			

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4810.14	45.85	33.06	35.04	3.94	47.81	74	-26.98	Peak	Horizontal
4810.17	36.08	33.06	35.04	3.94	38.04	54	-15.42	Average	Horizontal
4810.15	46.61	33.06	35.04	3.94	48.57	74	-24.88	Peak	Vertical
4810.18	38.11	33.06	35.04	3.94	40.07	54	-13.33	Average	Vertical

Field Strength Of Fundamental (TX-2445MHz)									
Frequency	Pol.	Measure Result	Measure Result	Peak Limit	AVG Limit	Result			
(MHz)	POI.	(PK, dBuV/m) $(AVG, dBuV/m)$ $(dBuV/m)$		(dBuV/m)	Kesuit				
2445	H	94.27	84.57	114	94	Pass			
2445	V	93.53	85.62	114	94	Pass			

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4890.04	45.99	33.16	35.15	3.96	47.96	74	-26.04	Peak	Horizontal
4890.12	35.99	33.16	35.15	3.96	37.96	54	-16.04	Average	Horizontal
4890.09	48.08	33.16	35.15	3.96	50.05	74	-23.95	Peak	Vertical
4890.07	39.11	33.16	35.15	3.96	41.08	54	-12.92	Average	Vertical

Field Strength Of Fundamental (TX-2480MHz)									
Frequency (MHz) Pol. Measure Result (PK, dBuV/m) Measure Result (AVG, dBuV/m) Result (dBuV/m) Result									
2480	Н	96.34	84.37	114	94	Pass			
2480	V	95.64	86.48	114	94	Pass			

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.24	45.84	33.26	35.14	3.98	47.94	74	-26.06	Peak	Horizontal
4960.25	38.49	33.26	35.14	3.98	40.59	54	-13.41	Average	Horizontal
4960.28	49.34	33.26	35.14	3.98	51.44	74	-22.56	Peak	Vertical
4960.26	42.35	33.26	35.14	3.98	44.45	54	-9.55	Average	Vertical

Notes:

- 1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
- 3. No emission was be recorded above 18GHz means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8.7. Results for Band edge Testing (Radiated)

Only record the worst test case as following:

TX-2405MHz

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2373.45	43.86	32.89	35.16	3.51	45.10	74	-28.90	Peak	Horizontal
2372.56	34.28	32.90	35.16	3.51	35.53	54	-18.47	Average	Horizontal
2388.64	46.45	32.92	35.16	3.54	47.75	74	-26.25	Peak	Horizontal
2390.00	34.57	32.92	35.16	3.54	35.87	54	-18.13	Average	Horizontal
2400.00	54.65	32.92	35.16	3.54	55.95	74	-18.05	Peak	Horizontal
2400.07	44.17	32.92	35.16	3.54	45.47	54	-8.53	Average	Horizontal
2372.34	44.50	32.89	35.16	3.51	45.74	74	-28.26	Peak	Vertical
2371.45	33.01	32.90	35.16	3.51	34.26	54	-19.74	Average	Vertical
2390.00	43.84	32.92	35.16	3.54	45.14	74	-28.86	Peak	Vertical
2391.02	36.22	32.92	35.16	3.54	37.52	54	-16.48	Average	Vertical
2400.00	56.29	32.92	35.16	3.54	57.59	74	-16.41	Peak	Vertical
2400.06	46.02	32.92	35.16	3.54	47.32	54	-6.68	Average	Vertical

TX-2480MHz

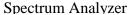
Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	44.58	33.06	35.18	3.60	46.06	74	-27.94	Peak	Horizontal
2483.32	35.10	33.08	35.18	3.60	36.60	54	-17.40	Average	Horizontal
2486.24	46.73	33.08	35.18	3.62	48.25	74	-25.75	Peak	Horizontal
2486.75	36.67	33.08	35.18	3.62	38.19	54	-15.81	Average	Horizontal
2483.50	47.77	33.06	35.18	3.60	49.25	74	-24.75	Peak	Vertical
2483.32	38.13	33.08	35.18	3.60	39.63	54	-14.37	Average	Vertical
2486.24	45.28	33.08	35.18	3.62	46.80	74	-27.20	Peak	Vertical
2486.75	35.42	33.08	35.18	3.62	36.94	54	-17.06	Average	Vertical

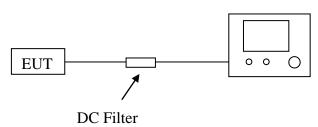
9. 20 DB BANDWIDTH MEASUREMENT

9.1. Standard Applicable

According to §15.215

9.2. Block Diagram of Test Setup





9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 3MHz

RBW = 30KHz

VBW = 100KHz

Sweep = auto

Detector function = peak

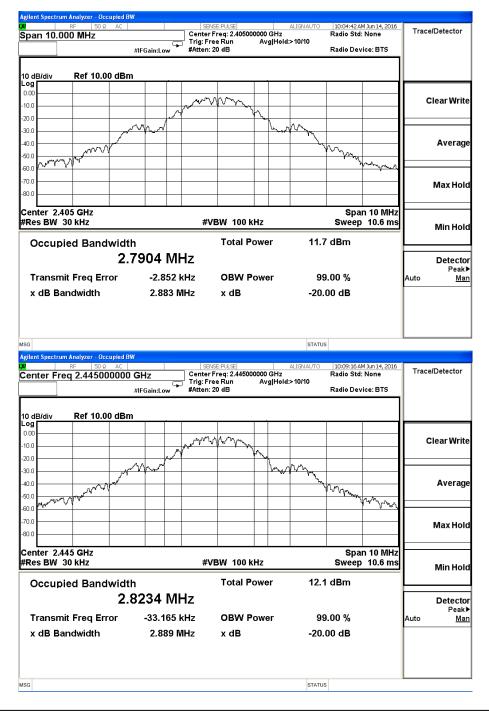
Trace = max hold

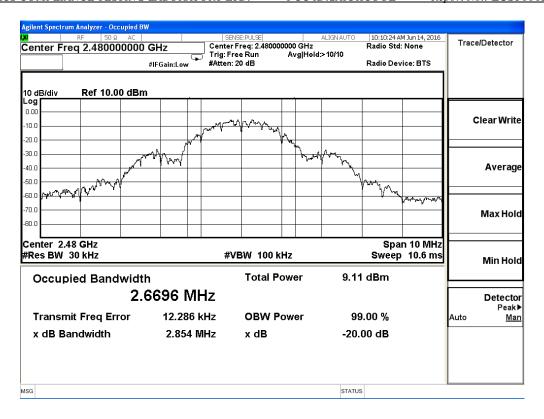
The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

9.4. Test Results

Test Result Of 20dB Bandwidth Measurement							
Test Frequency	20dB Bandwidth	Limit					
(MHz)	(MHz)	(MHz)					
2405	2.883						
2445	2.889	Non-Specified					
2480	2.854						

Temperature	25°C	Humidity	60%
Test Engineer	Kyle Yin	Test Date	June 20, 2016





----THE END OF REPORT-----