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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO **FCC PART 15 SUBPART C REQUIREMENT**

OF

Product Name: Blood Glucose Meter

Brand Name: Rightest

GM782 Model No.:

Model Difference: N/A

FCC ID: ADU-GM782

Report No.: ER/2015/90004

Issue Date: Oct. 01, 2015

§15.247, Cat: DTS **FCC Rule Part:**

BIONIME CORPORATION

Prepared for: No.100, Sec.2, Daging St., South Dist.,

Taichung City 40242, Taiwan(R.O.C)

SGS Taiwan Ltd.

Electronics & Communication Laboratory

Prepared by: No.134, Wu Kung Road, New Taipei Indus-

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VERIFICATION OF COMPLIANCE

Applicant: BIONIME CORPORATION

No.100, Sec.2, Daging St., South Dist., Taichung City 40242,

Taiwan(R.O.C)

Product Name: Blood Glucose Meter

Brand Name: Rightest GM782 Model No.:

Model Difference: N/A

FCC ID: ADU-GM782

File Number: ER/2015/90004

Date of test: Sep. 02, 2015 ~ Oct. 01, 2015

Date of EUT Received: Sep. 02, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Curry Chen	Date	Oct. 01, 2015
	Curry Chen / Engineer	_	
Prepared By:	Allen Tsai	Date	Oct. 01, 2015
Approved By:	Allen Tsai / Engineer Lim Chang Jim Chang / Asst. Manager	Date _	Oct. 01, 2015

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Revision History

Report Number Revision		Description	Issue Date	
ER/2015/90004	Rev.00	Initial creation of document	Oct. 01, 2015	

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GENERAL INFORMATION

1.1 Product Description

General:

donordi.			
Product Name:	Blood Glucose Meter		
Brand Name:	Rightest		
Model No.:	GM782		
Model Difference:	N/A		
Hardware version:	N/A		
Software version:	N/A		
Power Supply:	3.0 Vdc form CR2032 Battery		

Bluetooth Low Energy:

- 37	
Frequency Range:	2402 – 2480MHz
Bluetooth Version:	Bluetooth V4.0 (single mode)
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	-0.56dBm (Peak)
Antenna Designation:	Chip Antenna, Gain: 0.50dBi

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Blood Glucose Meter supporting Bluetooth, and below is details of information

nd below is details of information.					
Product Feature					
Product Name:	Blood Glucose Meter				
Brand Name:	Rightest				
Model No.:	GM782				
Model Difference:	N/A				
FCC ID	ADU-GM782				
Bluetooth Version	V4.0 single mode				

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r02

ANSI C63.10:2013

Note:

- All test items have been performed and record as per the above standards.
- The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

EUT Configuration

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

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Test Procedure 2.3

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table 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 max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss dB.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Conducted & Radiated Emission Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A
3.	Notebook	Lenovo	R400	7440AV6	Shielded	Un-shielded

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

CHANNEL	FREQUEN- CY	CHANNEL	FREQUEN- CY	CHANNEL	FREQUEN- CY
0	2402 MHz	14	2430 MHz	28	2458 MHz
1	2404 MHz	15	2432 MHz	29	2460 MHz
2	2406 MHz	16	2434 MHz	30	2462 MHz
3	2408 MHz	17	2436 MHz	31	2464 MHz
4	2410 MHz	18	2438 MHz	32	2466 MHz
5	2412 MHz	19	2440 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
Bluetooth LE	0 to 39	0,20,39	GFSK	1.0	MAIN		
	RADIATED	EMISSION TES	ST (ABOVE 1 GH	z)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
Bluetooth LE	0 to 39	0,20,39	GFSK	1.0	MAIN		

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE 4.0 Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
Bluetooth LE	0 to 39	0,20,39	GFSK	1.0	MAIN	

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.55 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB	
	180MHz -417MHz: +/- 3.19dB	
	0.417GHz-1GHz: +/- 3.19dB	
	1GHz - 18GHz: +/- 4.04dB	
	18GHz - 40GHz: +/- 4.04dB	

	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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CONDUCTED EMISSION TEST

Standard Applicable:

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)		
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	

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016
LISN	SCHWARZB ECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250- 25-2-01	04034	03/13/2015	03/12/2016
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2014	11/25/2015

6.3 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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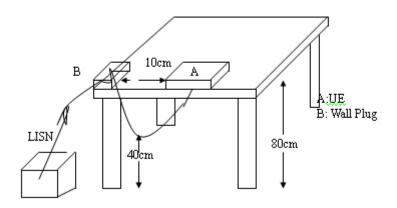
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

Measurement Result: 6.6

N/A This device powered from battery.

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PEAK OUTPUT POWER MEASUREMENT

Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

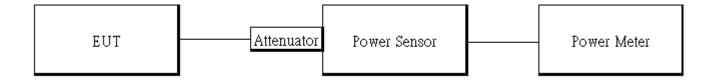
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015	
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015	
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	

Test Set-up:



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7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

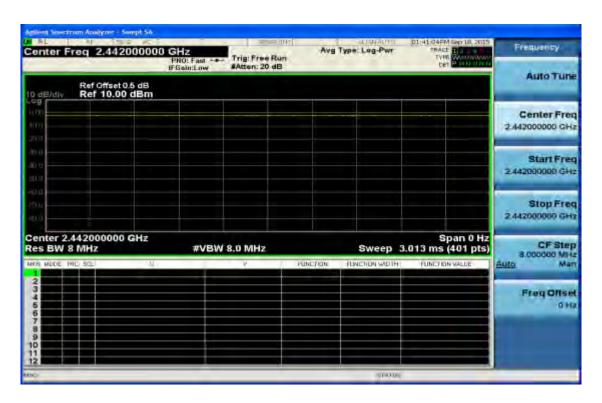
Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

Duty Factor:

	Duty Cycle (%)	Duty Factor (dB)
BLE	100.00	0.00



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Measurement Result:

BT4.0 mode:

СН	Frequency (MHz)	Peak Power Output(dBm)	Required Limit
0	2402	-0.56	1 Watt = 30 dBm
20	2442	-0.69	1 Watt = 30 dBm
39	2480	-1.01	1 Watt = 30 dBm

		Avere de Devier		
СН	Frequency (MHz)	Average Power Output(dBm)	Required Limit	
0	2402	-1.35	1 Watt = 30 dBm	
20	2442	-1.48	1 Watt = 30 dBm	
39	2480	-1.91	1 Watt = 30 dBm	

*Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

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6dB BANDWIDTH

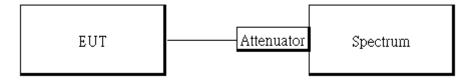
Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT MFR MODEL SERIAL LAST						
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016	
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016	

Test Set-up:



8.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat above procedures until all test default channel measured were complete.

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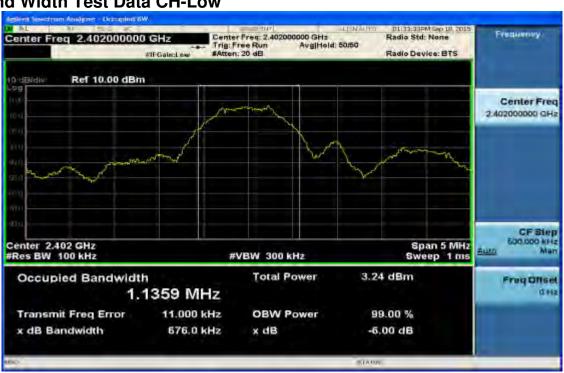
Measurement Result:

BT4.0 mode

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (MHz)	Result
2402	0.676	> 0.5	PASS
2442	0.7124	> 0.5	PASS
2480	0.7162	> 0.5	PASS

Note: Refer to next page for plots.

BT4.0 mode 6dB Band Width Test Data CH-Low



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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

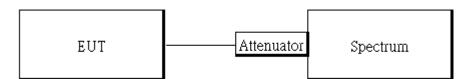
Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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), must also comply with the radiated emission limits specified in §15.209(a).

Measurement Equipment Used:

	Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016			
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016			
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016			

9.3 Test SET-UP:



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9.3.1 Measurement Procedure

Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW, VBW=300KHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 KHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 3. Set RBW = 100K & VBW ≥300K, Detector =Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

9.3.2 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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BT4.0 mode

Band Edges Test Data CH-Low







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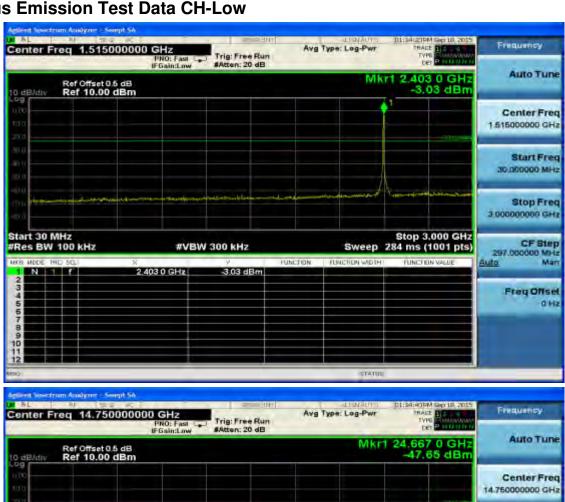
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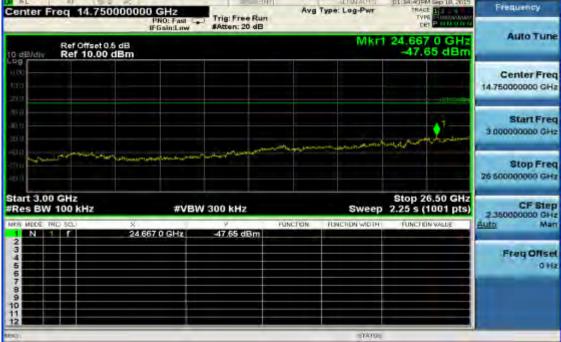
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Spurious Emission Test Data CH-Low





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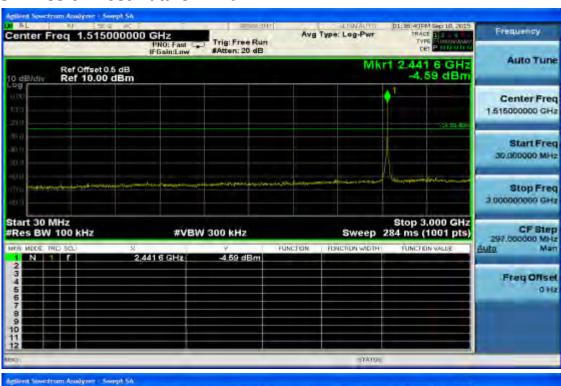
f (886-2) 2298-0488

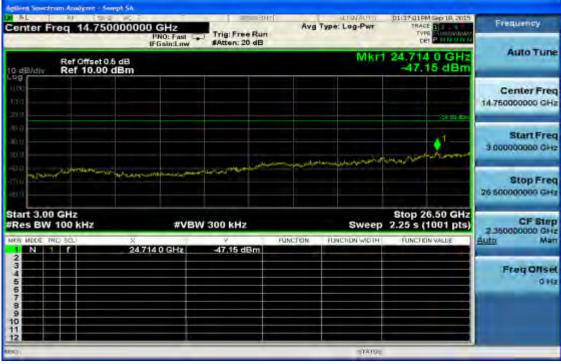
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Spurious Emission Test Data CH-Mid





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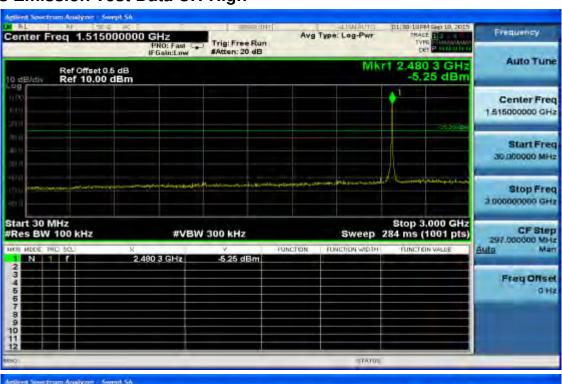
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Spurious Emission Test Data CH-High





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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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 must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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10.2 Measurement Equipment Used

966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
EMI Test Receiver	R&S	ESCI7	100760	05/04/2015	05/03/2016			
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016			
EXA Spectrum Ana- lyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015			
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015			
Loop Antenna	ETS.LINDGREN	6502	00143303	12/9/2014	12/08/2015			
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015			
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015			
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016			
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016			
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016			
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	01/02/2015	01/01/2016			
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016			
Turn Table	HD	DT420	N/A	N.C.R	N.C.R			
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R			
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R			
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016			
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016			

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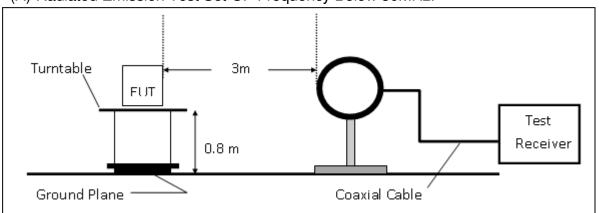
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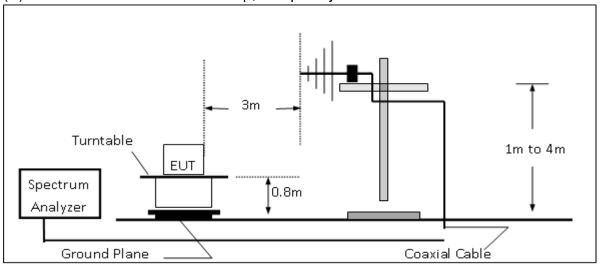
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10.3 Test SET-UP

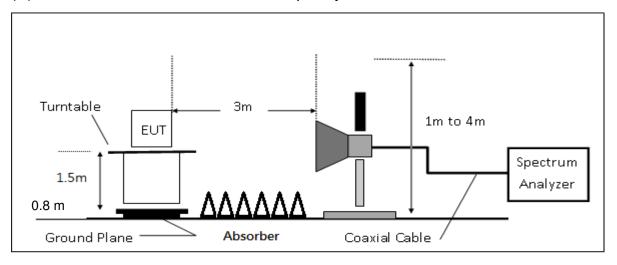
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 11. Repeat above procedures until all default test channel measured were complete.

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10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	S S	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

Actual FS($dB\mu V/m$) = SPA. Reading level($dB\mu V$) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency. Note:

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

"---": denotes Noise Floor.

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R adiated Band Edge Measurement Result (BT4.0 mode)

Operation Band Test Date :2015-09-16 :BT4.0 Fundamental Frequency :2402 MHz Temp./Humi. :23 deg_C /60 RH

Operation Mode :Band Edge LOW Engineer

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.00	Е	Average	28.27	5.16	33.43	54.00	-20.57
2390.00	Е	Peak	40.51	5.16	45.67	74.00	-28.33

Operation Band :BT4.0 **Test Date** :2015-09-16 Temp./Humi. Fundamental Frequency :2402 MHz :23 deg C/60 RH

Operation Mode :Band Edge LOW Engineer :Tin

EUT Pol. :E2 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	28.16	5.16	33.32	54.00	-20.68
2390.00	Ε	Peak	41.18	5.16	46.34	74.00	-27.66

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Operation Band :BT4.0 Test Date :2015-09-16 Fundamental Frequency :2480 MHz Temp./Humi. :23 deg_C /60 RH

Operation Mode Engineer : Band Edge HIGH

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	28.63	6.01	34.64	54.00	-19.36
2483.50	Е	Peak	44.51	6.01	50.52	74.00	-23.48

Operation Band :BT4.0 **Test Date** :2015-09-16 Fundamental Frequency Temp./Humi. :2480 MHz :23 deg C/60 RH

Operation Mode : Band Edge HIGH Engineer :Tin

EUT Pol. Measurement Antenna Pol. :E1 Plan :HORIZONTAL

	Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
	2483.50	E	Average	28.38	6.01	34.39	54.00	-19.61
	2483.50	Е	Peak	44.05	6.01	50.06	74.00	-23.94

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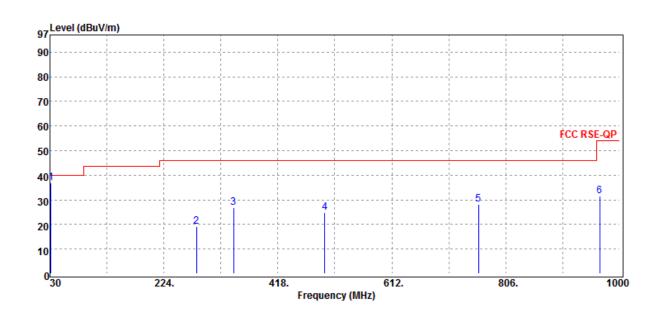
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Radiated Spurious Emission Measurement Result (BT4.0 mode) For Frequency form 30MHz to 1000MHz

Operation Band Test Date :BT4.0 :2015-09-16 Fundamental Frequency :2402 MHz Temp./Humi. :23 deg_C /60 RH

Operation Mode :TX LOW Engineer :Tin

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
31.94	S	Peak	47.08	-10.22	36.86	40.00	-3.14
279.29	S	Peak	27.71	-8.42	19.29	46.00	-26.71
342.34	S	Peak	34.31	-7.41	26.90	46.00	-19.10
497.54	S	Peak	29.31	-4.35	24.96	46.00	-21.04
759.44	S	Peak	27.10	1.07	28.17	46.00	-17.83
966.05	S	Peak	27.76	3.67	31.43	54.00	-22.57

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:2015-09-16

:23 deg_C /60 RH

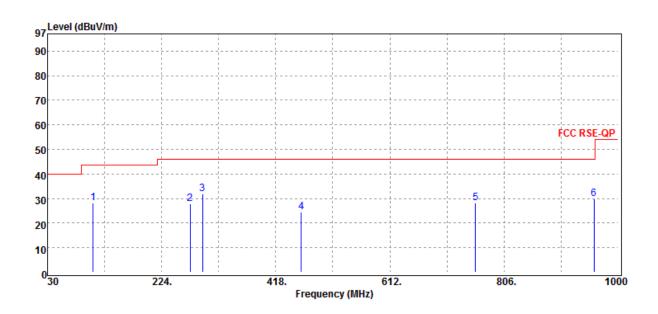
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2402 MHz :TX LOW :E2 Plan

Test Date Temp./Humi.

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
107.60	S	Peak	40.93	-12.65	28.28	43.50	-15.22
272.50	S	Peak	36.68	-8.82	27.86	46.00	-18.14
293.84	S	Peak	40.02	-8.14	31.88	46.00	-14.12
461.65	S	Peak	30.09	-5.44	24.65	46.00	-21.35
757.50	S	Peak	27.36	0.97	28.33	46.00	-17.67
959.26	S	Peak	26.12	3.65	29.77	46.00	-16.23

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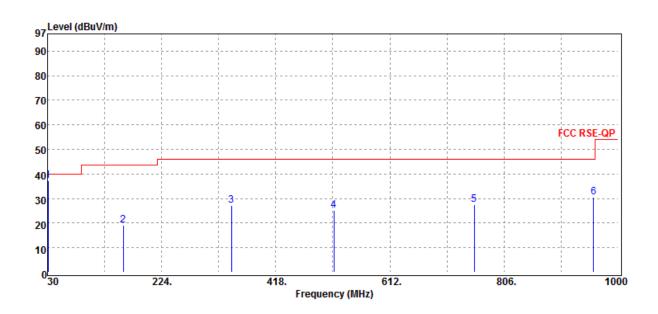
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2442 MHz :TX MID :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
30.97	S	Peak	47.42	-10.24	37.18	40.00	-2.82
159.01	S	Peak	27.94	-8.85	19.09	43.50	-24.41
342.34	S	Peak	34.70	-7.41	27.29	46.00	-18.71
516.94	S	Peak	29.54	-4.49	25.05	46.00	-20.95
755.56	S	Peak	26.73	0.80	27.53	46.00	-18.47
958.29	S	Peak	27.01	3.62	30.63	46.00	-15.37

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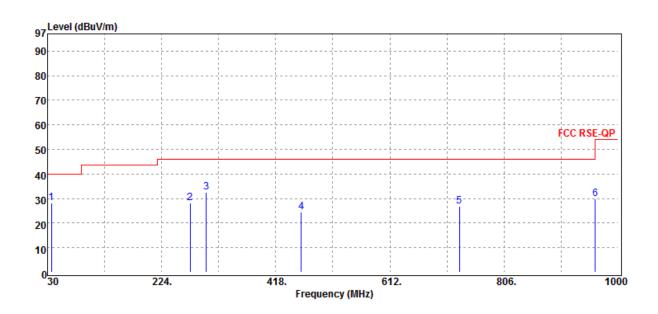
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2442 MHz :TX MID :E2 Plan

Test Date Temp./Humi. :2015-09-16 :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
36.79	S	Peak	38.11	-10.03	28.08	40.00	-11.92
272.50	S	Peak	37.16	-8.82	28.34	46.00	-17.66
299.66	S	Peak	40.57	-7.99	32.58	46.00	-13.42
461.65	S	Peak	29.96	-5.44	24.52	46.00	-21.48
730.34	S	Peak	27.79	-0.88	26.91	46.00	-19.09
961.20	S	Peak	26.05	3.68	29.73	54.00	-24.27

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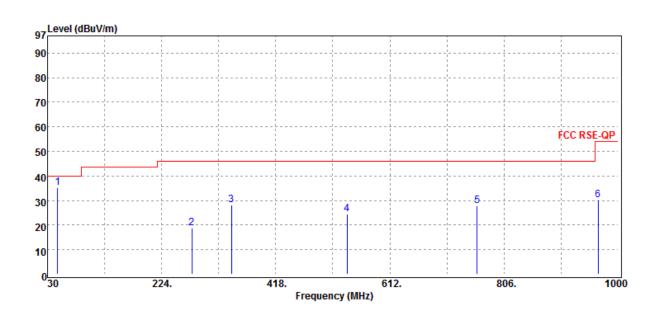
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :VERTICAL



eq. No	ote Detecto	or Spectrum	ı Factor	Actual	Limit	Margin
	Mode	Reading Lev	vel	FS	@3m	
Hz F/H/	E/S PK/QP/	AV dBμV	dB	dBμV/m	dBμV/m	dB
46 S	S Peak	44.72	-9.35	35.37	40.00	-4.63
.41 S	S Peak	27.59	-8.66	18.93	46.00	-27.07
.34 S	S Peak	35.54	-7.41	28.13	46.00	-17.87
.25	S Peak	28.47	-4.00	24.47	46.00	-21.53
.41 S	S Peak	26.74	1.11	27.85	46.00	-18.15
.05	S Peak	26.58	3.67	30.25	54.00	-23.75
	Hz F/H/ 46 5 6.41 5 9.34 5 9.25 5	Mode Hz F/H/E/S PK/QP// 46 S Peak 5.41 S Peak 2.34 S Peak 2.25 S Peak 3.41 S Peak 3.41 S Peak 3.41 S Peak 4.41 S Peak	Mode Reading Legation Hz F/H/E/S PK/QP/AV dBμV .46 S Peak 44.72 .41 S Peak 27.59 .34 S Peak 35.54 .25 S Peak 28.47 .41 S Peak 26.74	Hz F/H/E/S PK/QP/AV dBμV dB .46 S Peak 44.72 -9.35 .41 S Peak 27.59 -8.66 .34 S Peak 35.54 -7.41 .25 S Peak 28.47 -4.00 .41 S Peak 26.74 1.11	Mode Reading Level FS Hz F/H/E/S PK/QP/AV dBμV dB dBμV/m .46 S Peak 44.72 -9.35 35.37 .41 S Peak 27.59 -8.66 18.93 .34 S Peak 35.54 -7.41 28.13 .25 S Peak 28.47 -4.00 24.47 .41 S Peak 26.74 1.11 27.85	Mode Reading Level FS @3m Hz F/H/E/S PK/QP/AV dBμV dB dBμV/m dBμV/m 46 S Peak 44.72 -9.35 35.37 40.00 6.41 S Peak 27.59 -8.66 18.93 46.00 2.34 S Peak 35.54 -7.41 28.13 46.00 2.25 S Peak 28.47 -4.00 24.47 46.00 3.41 S Peak 26.74 1.11 27.85 46.00

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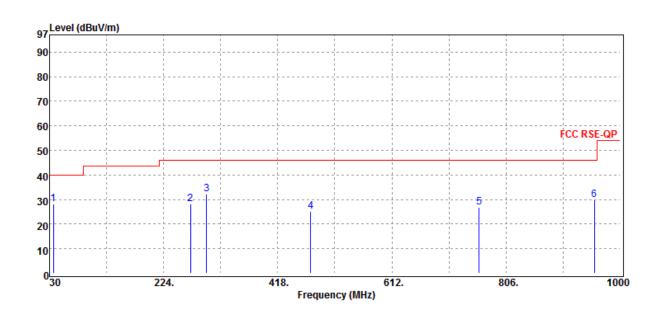
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date Temp./Humi. :2015-09-16 :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
36.79	S	Peak	38.34	-10.03	28.31	40.00	-11.69
269.59	S	Peak	37.13	-9.01	28.12	46.00	-17.88
296.75	S	Peak	40.20	-8.07	32.13	46.00	-13.87
474.26	S	Peak	29.89	-4.88	25.01	46.00	-20.99
760.41	S	Peak	25.67	1.11	26.78	46.00	-19.22
956.35	S	Peak	26.22	3.56	29.78	46.00	-16.22

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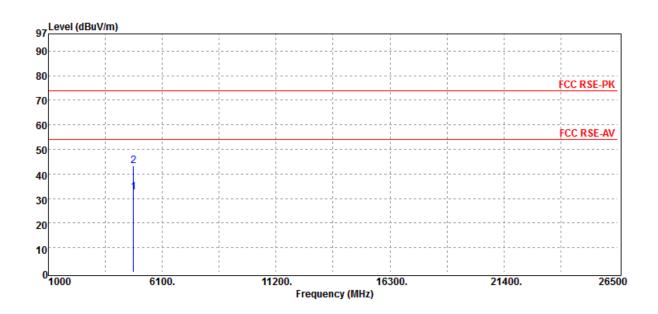
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Radiated Spurious Emission Measurement Result (BT4.0 mode) For Frequency above 1GHz

Operation Band :BT4.0 **Test Date** :2015-09-16 Fundamental Frequency Temp./Humi. :23 deg_C /60 RH :2402 MHz

Operation Mode :TX LOW Engineer :Tin

EUT Pol. :E2 Plan Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.00	Н	Average	22.88	9.56	32.44	54.00	-21.56
4804.00	Н	Peak	33.81	9.56	43.37	74.00	-30.63

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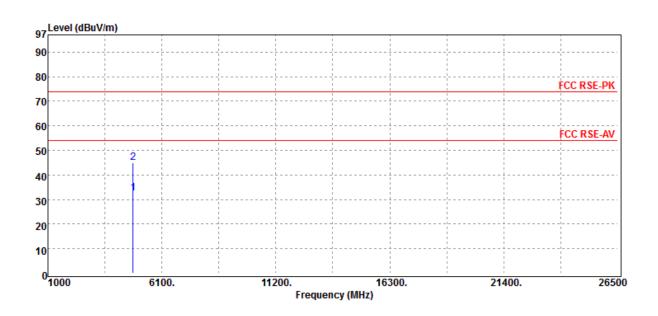
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2402 MHz :TX LOW :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
4804.00	Н	Average	23.06	9.56	32.62	54.00	-21.38	
4804.00	Н	Peak	35.37	9.56	44.93	74.00	-29.07	

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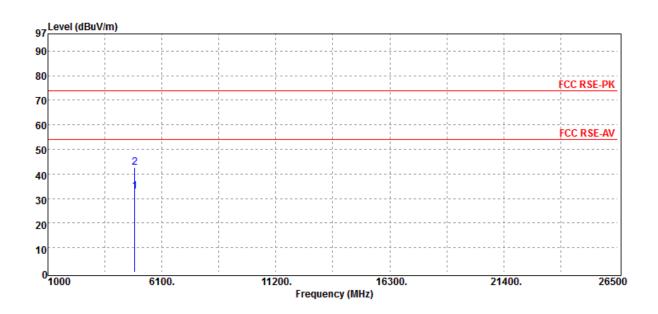
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2442 MHz :TX MID :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	_
4884.00	Н	Average	22.91	9.85	32.76	54.00	-21.24	
4884.00	Н	Peak	32.93	9.85	42.78	74.00	-31.22	

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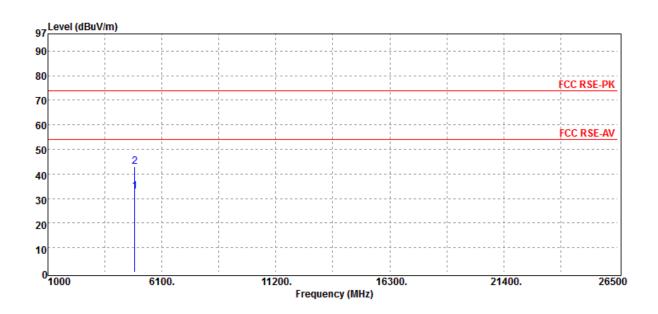
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2442 MHz :TX MID :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
4884.00	Н	Average	23.17	9.85	33.02	54.00	-20.98	
4884.00	Н	Peak	33.27	9.85	43.12	74.00	-30.88	

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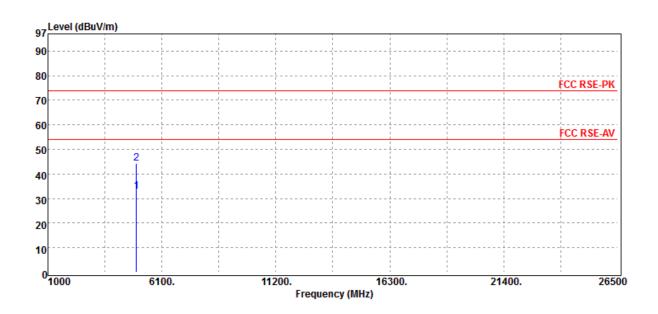
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Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH **Engineer**

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
4960.00	Н	Average	23.06	9.86	32.92	54.00	-21.08	
4960.00	Н	Peak	34.32	9.86	44.18	74.00	-29.82	

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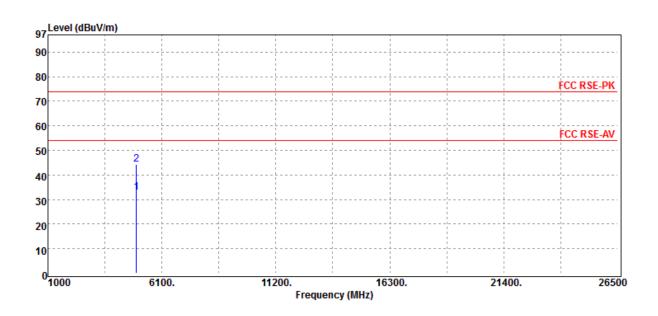
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:BT4.0 :2480 MHz :TX HIGH :E2 Plan

Test Date :2015-09-16 Temp./Humi. :23 deg_C /60 RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.00	Н	Average	23.13	9.86	32.99	54.00	-21.01
4960.00	Н	Peak	34.45	9.86	44.31	74.00	-29.69

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11 PEAK POWER SPECTRAL DENSITY

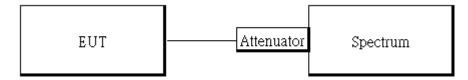
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

	Conducted Emission Test Site									
EQUIPMENT	EQUIPMENT MFR MODEL SERIAL									
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016					
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016					
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016					
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016					

11.3 Test Set-up:



11.4 Measurement Procedure:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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11.5 Measurement Result:

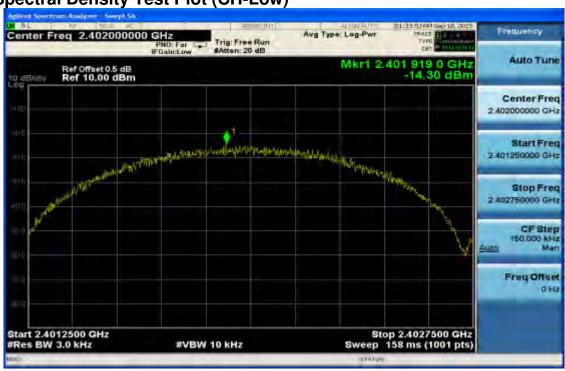
BT4.0 mode

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2402	-14.30	8	PASS
2442	-15.26	8	PASS
2480	-16.12	8	PASS

Note: Refer to below for plots.

BT4.0 mode

Power Spectral Density Test Plot (CH-Low)



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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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