


Prüfbericht-Nr.: <i>Test Report No.:</i>	15087415 001	Auftrags-Nr.: <i>Order No.:</i>	154101324	Seite 1 von 28 <i>Page 1 of 28</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.05.2015		
Auftraggeber: <i>Client:</i>	OMRON HEALTHCARE Co., Ltd. 53, Kunotsubo, Terado-cho, Muko, Kyoto, 617-0002 Japan				
Prüfgegenstand: <i>Test item:</i>	Digital Weight Scale				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	HN-290T FCC ID: Q6ZHN290T IC: 10623A-HN290T				
Auftrags-Inhalt: <i>Order content:</i>	Complete test				
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r03 RSS-Gen Issue 4, November 2014 RSS-247 Issue 1, May 2015				
Wareneingangsdatum: <i>Date of receipt:</i>	12.08.2015				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000205387-004				
Prüfzeitraum: <i>Testing period:</i>	21.08.2015 - 23.08.2015				
Ort der Prüfung: <i>Place of testing:</i>	MRT Technology (Suzhou) Co., Ltd				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:	<i>Adrian Shi</i>		kontrolliert von / reviewed by:	<i>Shi Li</i>	
10.09.2015	Adrian Shi / PE		10.09.2015	Shi Li / Reviewer	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</p>					
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

v04

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS***RESULT: Pass***5.1.5 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.6 SPURIOUS EMISSION***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101683	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101684	1 year	2015/11/07
Temperature/ Meter Humidity	Anymetre	TH101B	SR2-01	1 year	2015/11/14

Radiated Emission

Spectrum Analyzer	Agilent	N9010A	MY5144016A	1 year	2015/10/09
Preamplifier	MRT	AP01G18	1310002	1 year	2015/10/06
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	1 year	2015/11/08
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2015/11/08
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2015/11/08
Broadband Horn Antenna	Schwarzbeck	BBHA9170	9170-549	1 year	2016/01/05
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	1 year	2015/11/15

Conducted Test Equipment

Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2016/04/23
USB Wideband Power Sensor	Boonton	55006	MRTSUE06109	1 year	2015/10/15
Temperature/Humidity Meter	Anymetre	TH101B	TR3-01	1 year	2015/11/14

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is Digital Weight Scale which supports Bluetooth 4.0 low energy only.

This product is mainly designed for general household use.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Kind of Equipment	Digital Weight Scale
Type Designation	HN-290T
Wireless Standard	Bluetooth 4.0 Low Energy
Operating Frequency band	2402 – 2480MHz
Channel Separation	2MHz
Modulation	GFSK
Antenna Type	Chip antenna
Antenna Gain	1 dBi
Extreme Temperature Range	+10~+40°C
Operation Voltage	DC 6V (4 AA Batteries)

Table 3: RF channel and frequency of Buletooth LE mode

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

Software used for testing: ISRT_V2.1.26.4400_Beta

This software was running on the laptop computer connected to the EUT. It was used to enable the test operation modes listed in section 3.3 as appropriate for conducted test.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
Laptop	DELL	PP11L	QDS-BRCM1017

4.4 Countermeasures to achieve EMC Compliance

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

5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.7

Limit The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has one chip antenna, the directional gain of antenna is 1 dBi and the PCB antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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5.1.2 Peak Output Power

RESULT:**Pass**

Test date : 2015-08-21
Test standard : FCC Part 15.247(b)(3)
RSS-247 Clause 5.4(4)
Basic standard : ANSI C63.10: 2013
Clause 9.1 of KDB 558074 v03r03
Limit : 1W
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 4: Test result of Peak Output Power of Bluetooth LE mode

Channel	Channel Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
Low Channel	2402	-3.52	30
Middle Channel	2440	-3.98	30
High Channel	2480	-4.68	30

5.1.3 6dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2015-08-21
Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(1)
RSS-Gen Clause 6.6
Basic standard : ANSI C63.10: 2013
Clause 8 of KDB 558074 v03r03
Clause 6.6 of RSS-Gen
Limit : $\geq 500\text{kHz}$ for 6dB Bandwidth
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

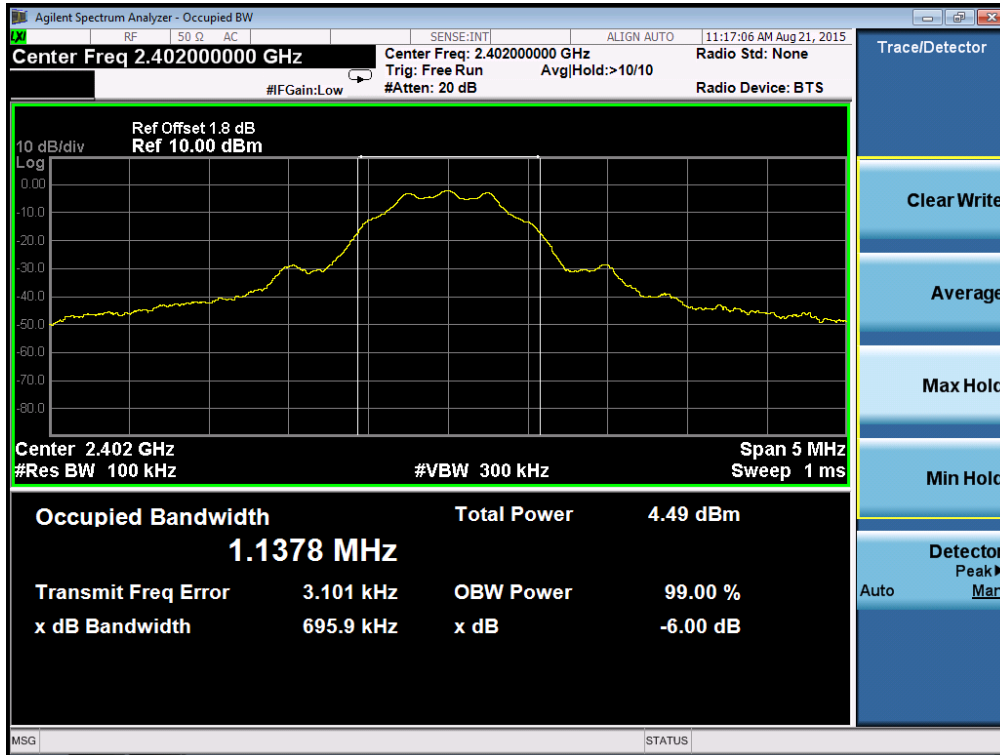
Table 5: Test result of 6dB & 99% Bandwidth of Bluetooth LE mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.6959	1.1378
Mid Channel	2440	0.6890	1.1322
High Channel	2480	0.6910	1.1392

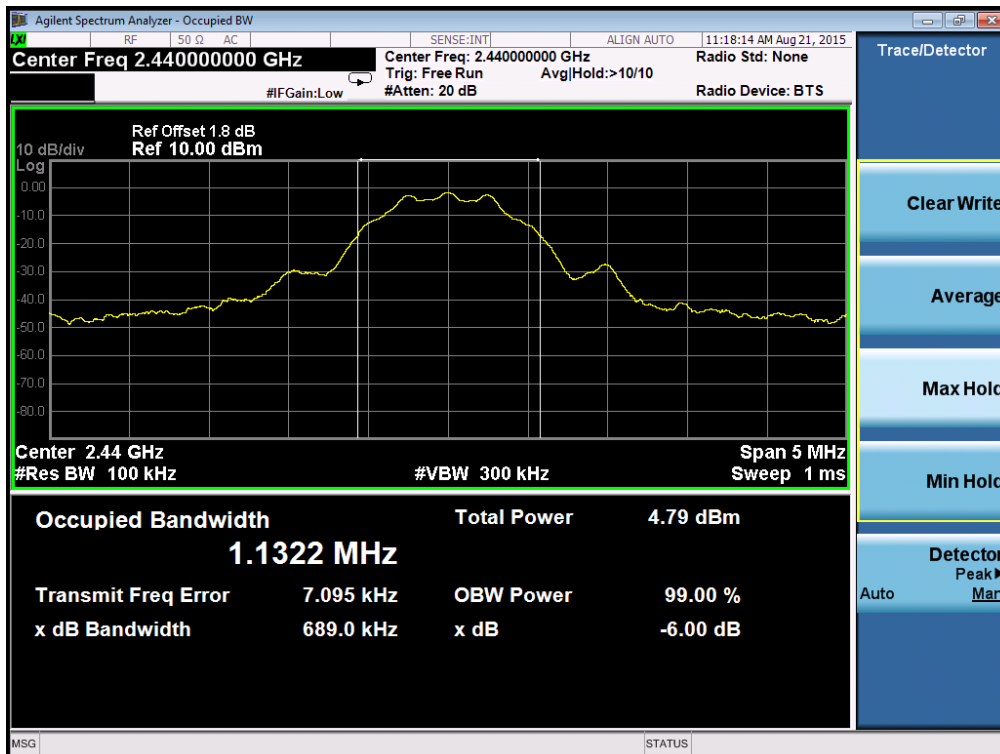
For details refer to following test plot.

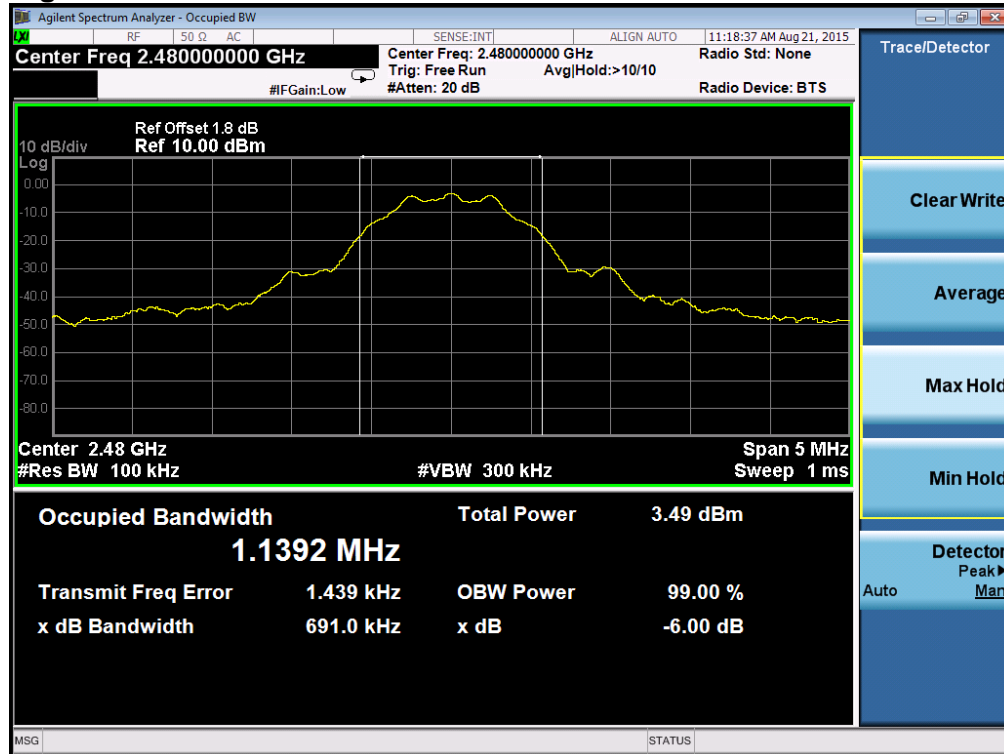
Test Plot of 6dB & 99% Bandwidth measured of Bluetooth LE mode

Low Channel



Middle Channel



High Channel


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5.1.4 Conducted Spurious Emissions

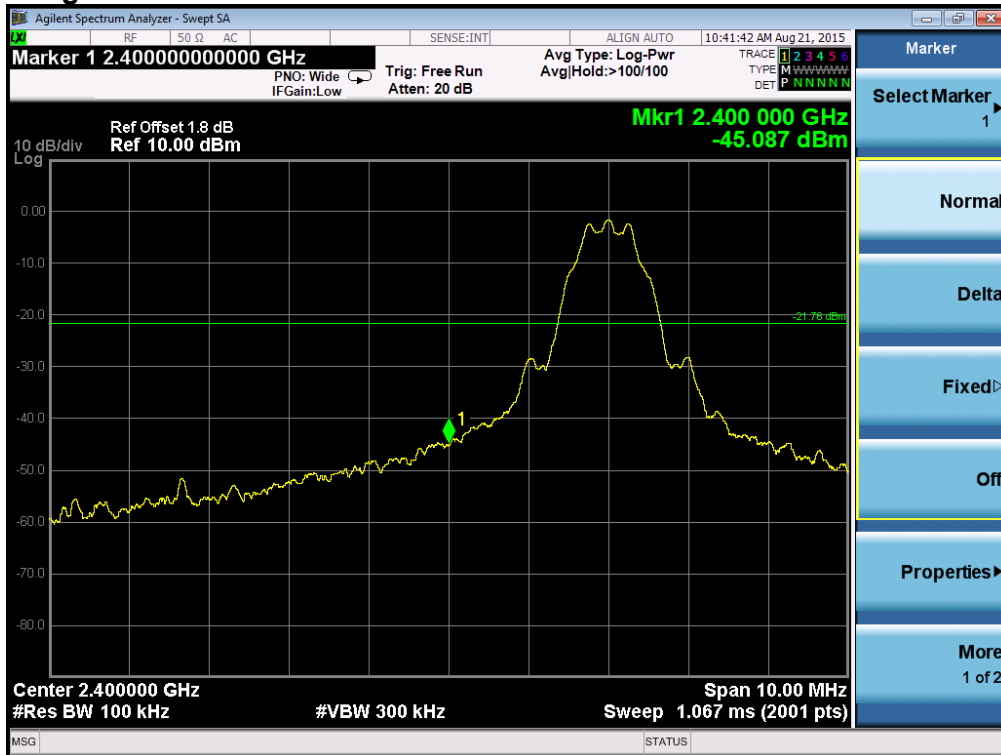
RESULT:**Pass**

Date of testing : 2015-08-21
Test standard : FCC part 15.247(d)
RSS-247 Clause 5.5
Basic standard : ANSI C63.10: 2013
Limit : 20dB (below that in the 100kHz bandwidth within
the band that contains the highest level of the
desired power)
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

For details refer to following test plot.

Band Edge


5.1.5 Power spectral density**RESULT:****Pass**

Date of testing : 2015-08-21
Test standard : FCC part 15.247(e)
RSS-247 Clause 5.2(2)
Basic standard : ANSI C63.10: 2013
Clause 10 of KDB 558074 v03r03
Limit : 8dBm/3kHz
Kind of test site : Shield room

Test setup

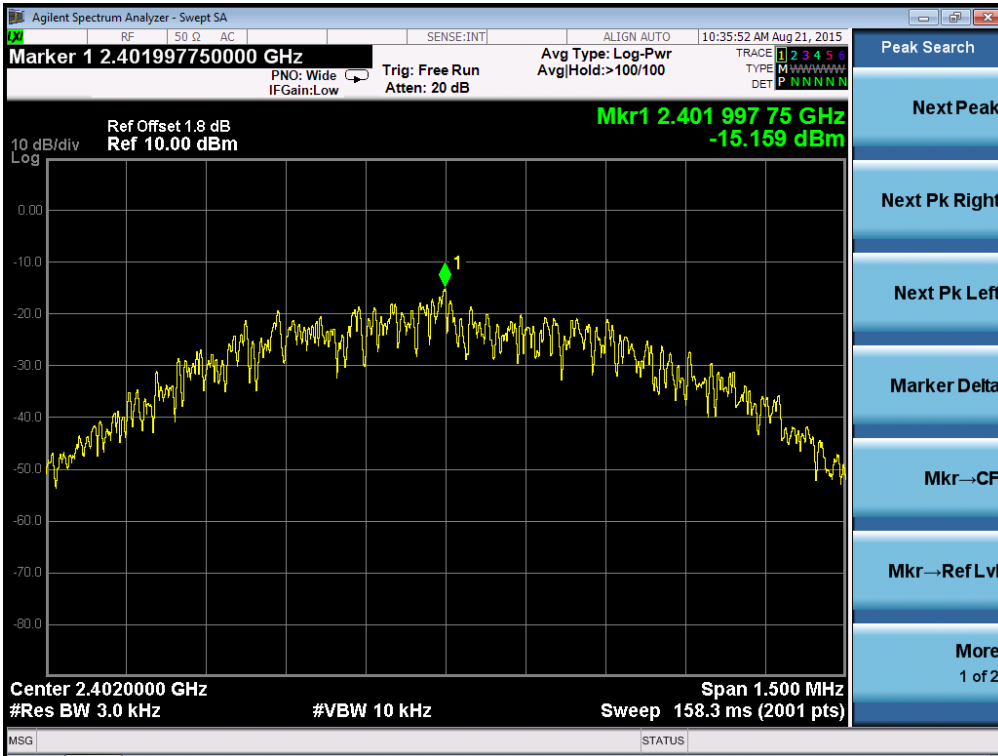
Test Channel : Low/ Middle/ High
Operation mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 6: Test result of Power Spectral Density:

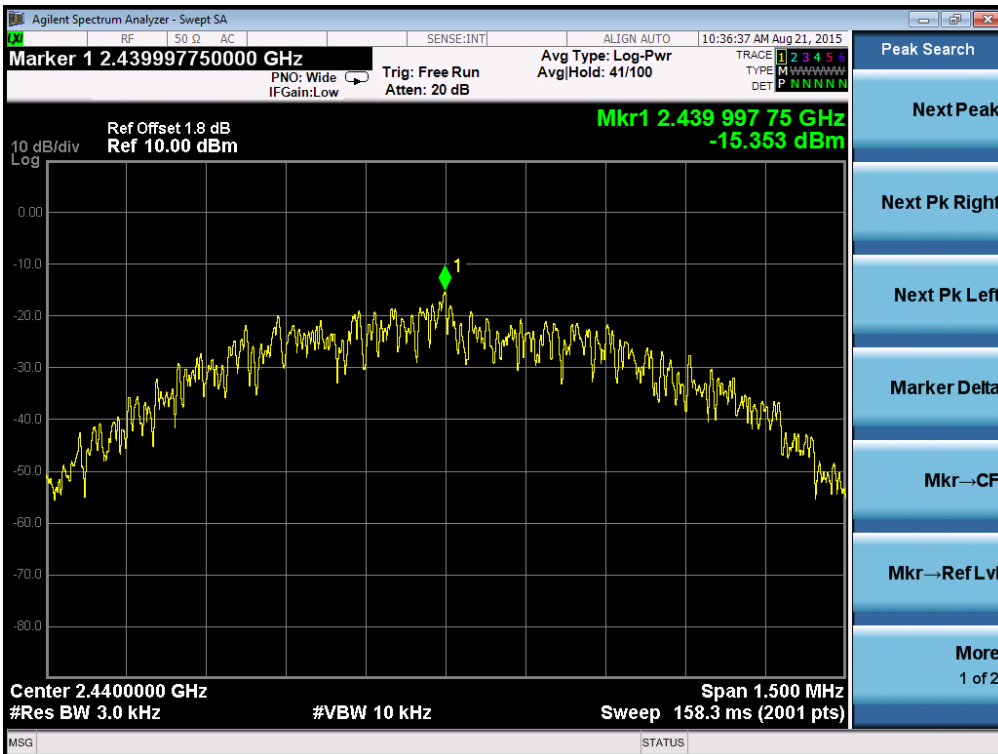
Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)
Bluetooth LE	2402	-15.159	8
	2440	-15.353	8
	2480	-15.922	8

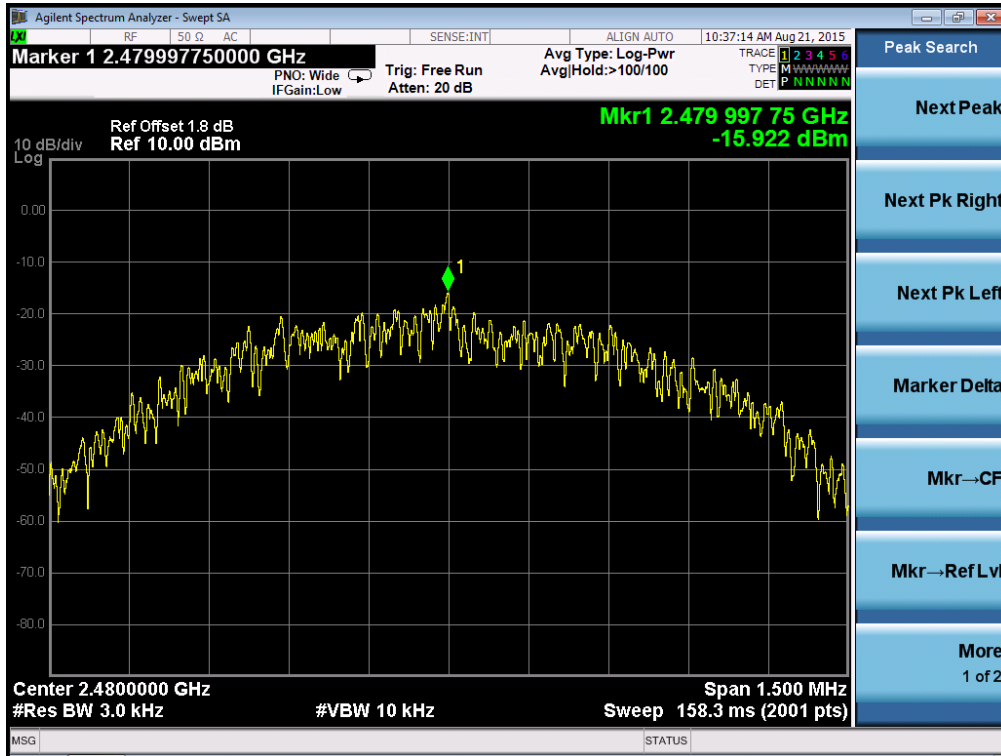
For details refer to following test plot.

Test Plot of Power spectral density measured of Bluetooth LE mode Low Channel



Middle Channel



High Channel


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5.1.6 Spurious Emission

RESULT:**Pass**

Date of testing : 2015-08-23
Test standard : FCC part 15.247(d)
RSS-Gen Clause 8.9 & 8.10
Basic standard : ANSI C63.10: 2013
Clause 11 & 12 of KDB 558074 v03r03
Limits : FCC part 15.209(a)
RSS-Gen Clause 8.9
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

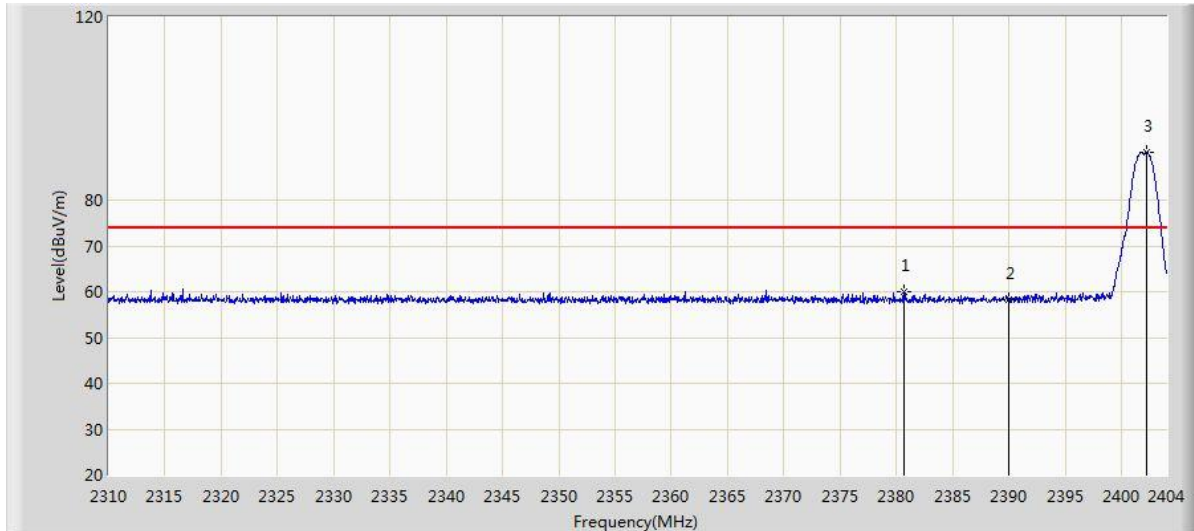
Test Channel : Low/ Middle/ High
Operation mode : A.1
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 7: Test result of Spurious Emission of Bluetooth LE mode

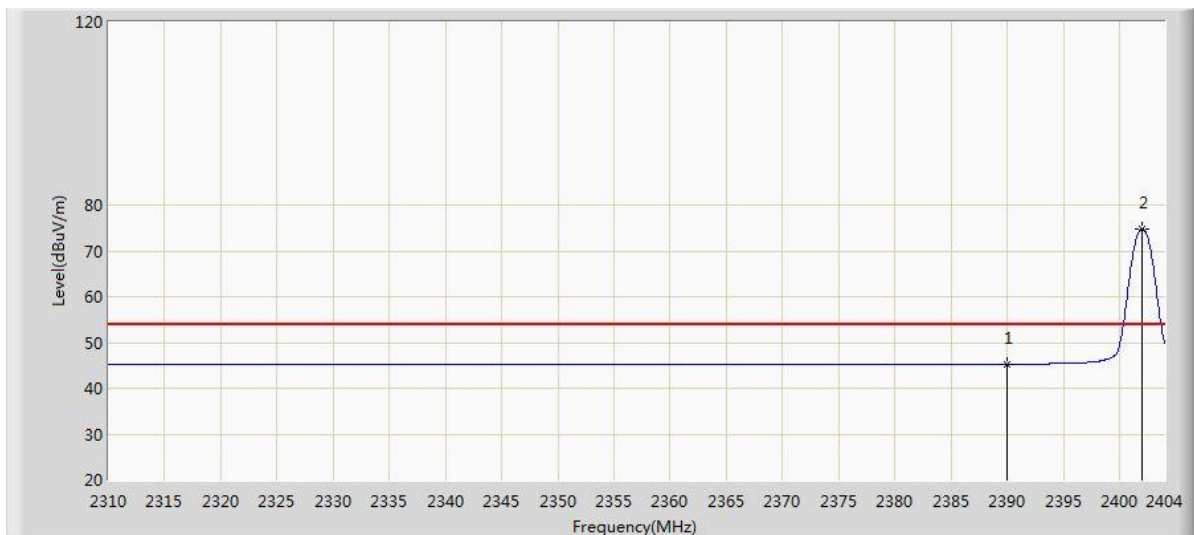
Channel	Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Pol.
Low	124.575	24.595	14.026	-18.905	43.5	10.569	PEAK	H
	173.560	25.558	15.163	-17.942	43.5	10.395	PEAK	
	4808.000	41.230	38.536	-32.770	74	2.694	PEAK	
	6049.000	41.572	37.457	-32.428	74	4.115	PEAK	
	10035.500	48.406	36.878	-25.594	74	11.528	PEAK	
	11548.500	50.016	37.298	-23.984	74	12.718	PEAK	
	127.000	30.518	20.221	-12.982	43.5	10.297	PEAK	V
	164.345	27.172	17.198	-16.328	43.5	9.974	PEAK	
	4808.000	44.434	41.740	-29.566	74	2.694	PEAK	
	5845.000	41.949	37.895	-32.051	74	4.054	PEAK	
	9585.000	46.949	36.026	-27.051	74	10.923	PEAK	
	11650.500	48.552	36.241	-25.448	74	12.311	PEAK	
Middle	123.120	24.812	14.028	-18.688	43.5	10.784	PEAK	H
	179.865	25.645	14.768	-17.855	43.5	10.878	PEAK	
	3771.000	39.197	39.514	-34.803	74	-0.317	PEAK	
	6032.000	41.755	37.635	-32.245	74	4.120	PEAK	
	6737.500	43.523	37.823	-30.477	74	5.701	PEAK	
	11565.500	49.004	36.337	-24.996	74	12.668	PEAK	
	124.575	28.120	17.551	-15.380	43.5	10.569	PEAK	V
	163.375	27.397	17.461	-16.103	43.5	9.936	PEAK	
	4876.000	41.744	39.069	-32.256	74	2.675	PEAK	
	5505.000	41.557	38.036	-32.443	74	3.521	PEAK	
	10239.500	48.414	36.523	-25.586	74	11.892	PEAK	
	11531.500	48.555	35.814	-25.445	74	12.740	PEAK	
High	124.575	24.744	14.175	-18.756	43.5	10.569	PEAK	H
	179.865	25.224	14.347	-18.276	43.5	10.878	PEAK	
	5012.000	40.184	37.135	-33.816	74	3.049	PEAK	
	6601.500	43.181	37.177	-30.819	74	6.003	PEAK	
	7893.500	45.437	37.091	-28.563	74	8.345	PEAK	
	11489.000	49.014	36.260	-24.986	74	12.754	PEAK	
	126.515	30.612	20.274	-12.888	43.5	10.338	PEAK	V
	164.345	27.539	17.565	-15.961	43.5	9.974	PEAK	
	4961.000	41.466	38.554	-32.534	74	2.912	PEAK	
	6465.500	42.507	36.716	-31.493	74	5.791	PEAK	
	7205.000	44.742	36.937	-29.258	74	7.805	PEAK	
	11557.000	48.592	35.893	-25.408	74	12.699	PEAK	

Notes:

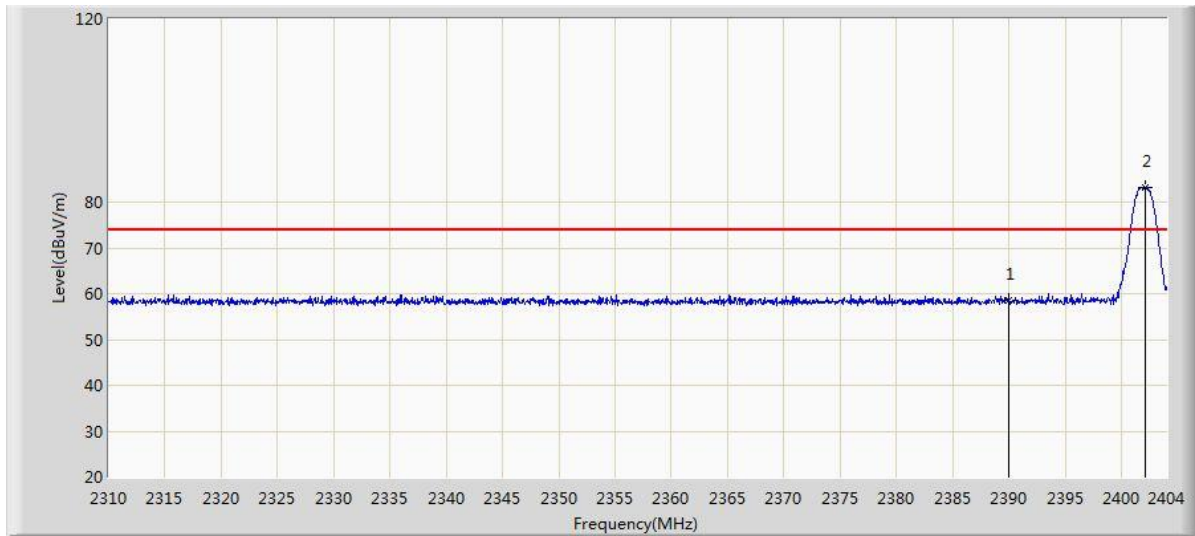
1. Transmit mode comply with the field strength within the restricted bands. There is no spurious found below 30MHz.
2. Due to the peak measure values also meet the average limit (54dBm), the average measurement is not tested based on technical judgment.

Test Plot of Frequency Band Edge of Bluetooth LE mode
Low Channel


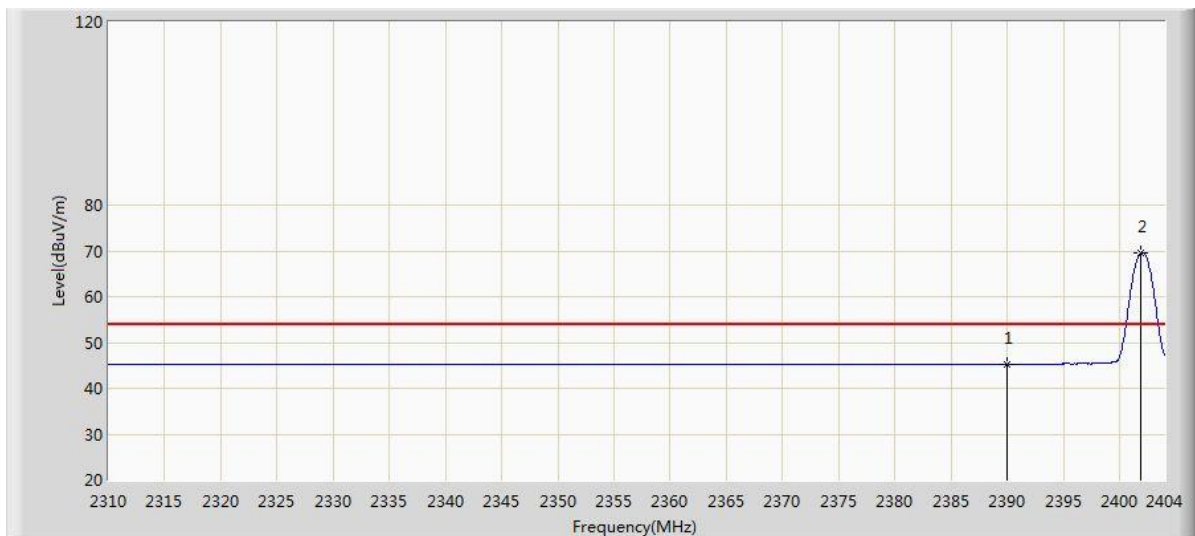
Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2380.735	59.991	28.771	-14.009	74.000	31.220	PK	H
2390.000	58.266	27.063	-15.734	74.000	31.203	PK	
2402.261	90.354	59.170	N/A	N/A	31.184	PK	



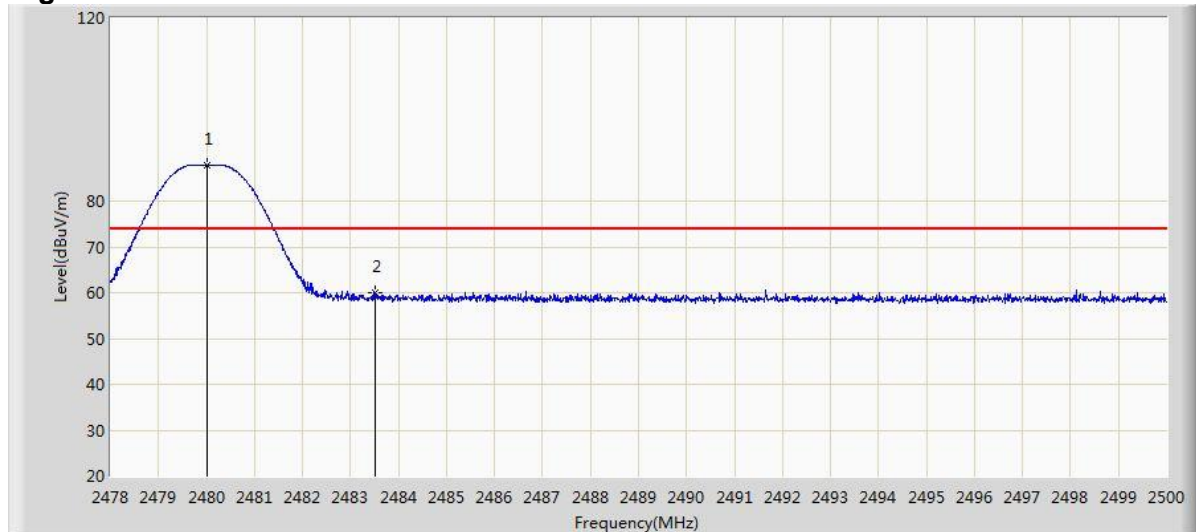
Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2390.000	45.241	14.038	-8.759	54.000	31.203	AV	H
2401.979	74.856	43.672	N/A	N/A	31.184	AV	



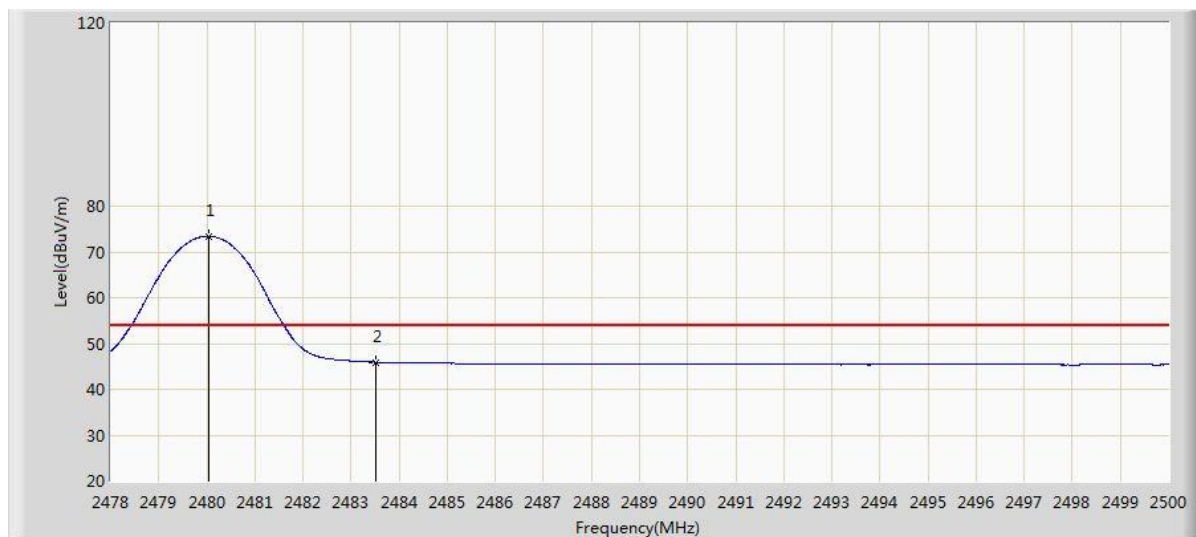
Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2390.000	58.622	27.419	-15.378	74.000	31.203	PK	V
2402.073	83.104	51.920	N/A	N/A	31.184	PK	



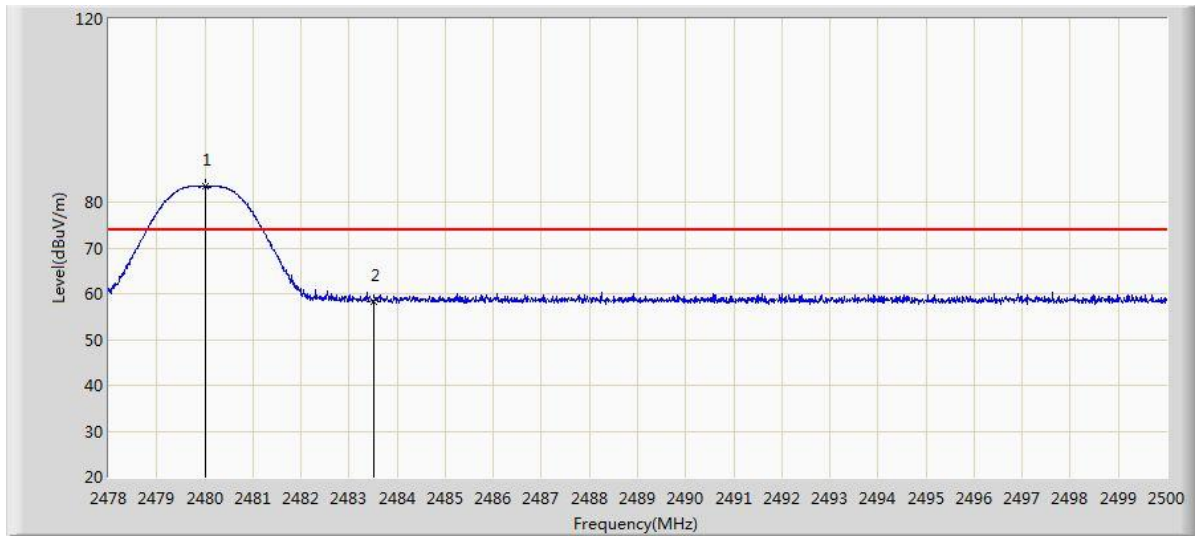
Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2390.000	45.187	13.984	-8.813	54.000	31.203	AV	V
2401.885	69.559	38.375	N/A	N/A	31.184	AV	

High Channel


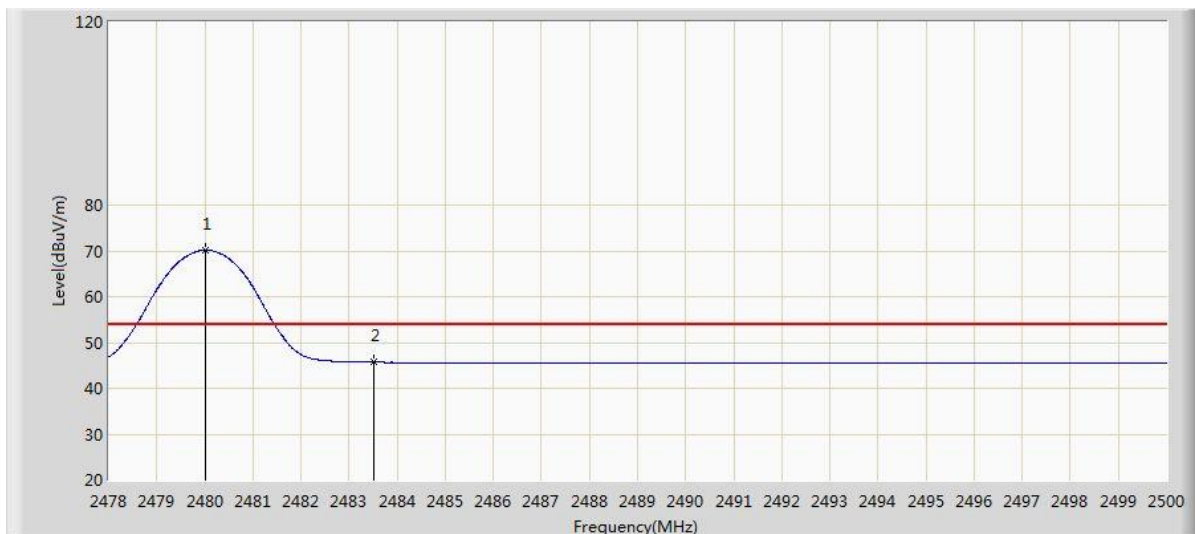
Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2480.013	87.860	56.676	N/A	N/A	31.184	PK	H
2483.500	60.045	28.852	-13.955	74.000	31.194	PK	



Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2480.046	73.436	42.252	N/A	N/A	31.184	AV	H
2483.500	45.926	14.733	-8.074	54.000	31.194	AV	



Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2480.002	83.368	52.184	N/A	N/A	31.184	PK	V
2483.500	58.120	26.927	-15.880	74.000	31.194	PK	



Freq. (MHz)	Measure Level (dB μ V/m)	Reading (dB μ V)	Margin (dB)	Limit (dB μ V/m)	Correct Factor (dB)	Detector	Polar
2480.002	70.159	38.975	N/A	N/A	31.184	AV	V
2483.500	45.671	14.478	-8.329	54.000	31.194	AV	

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Appendix I- RF Exposure statement

Exposure Requirements – FCC KDB # 447498 D01 and RSS-102 Issue 5

FCC KDB # 447498 DO1 V05r02 - Mobile and Portable Device RF Exposure and Procedures and Equipment, Appendix A shows that the SAR Text Exclusion Threshold for a device with a separation distance of 5 mm at 2450MHz is 10 mW.

RSS-102 section 2.5.1 Exemption Limits for Routine Evaluation, Table 1 shows the SAR evaluation for a device with a separation distance of 5 mm at 2450MHz is 4 mW.

Calculated EIRP

The maximum measured transmitter power is the following:

Conducted Output Power P _{out} [dBm]	Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	P _{out} EIRP [mW]
-3.52	0.44	1	0.56

Note:

Per the equation in section 1.3.1 of FCC Document # 412172 D01 Determining ERP and EIRP v01;

$$\text{EIRP} = p_t \times g_t$$

where:

p_t = transmitter output power in watts

g_t = Numeric gain of transmitting antenna (unitless)

Evaluation for FCC

The maximum EIRP peak power output of the EUT is: 0.56 mW.

The EUT is well below the 10mW power level.

Evaluation for IC

The maximum EIRP peak power output of the EUT is: 0.56 mW.

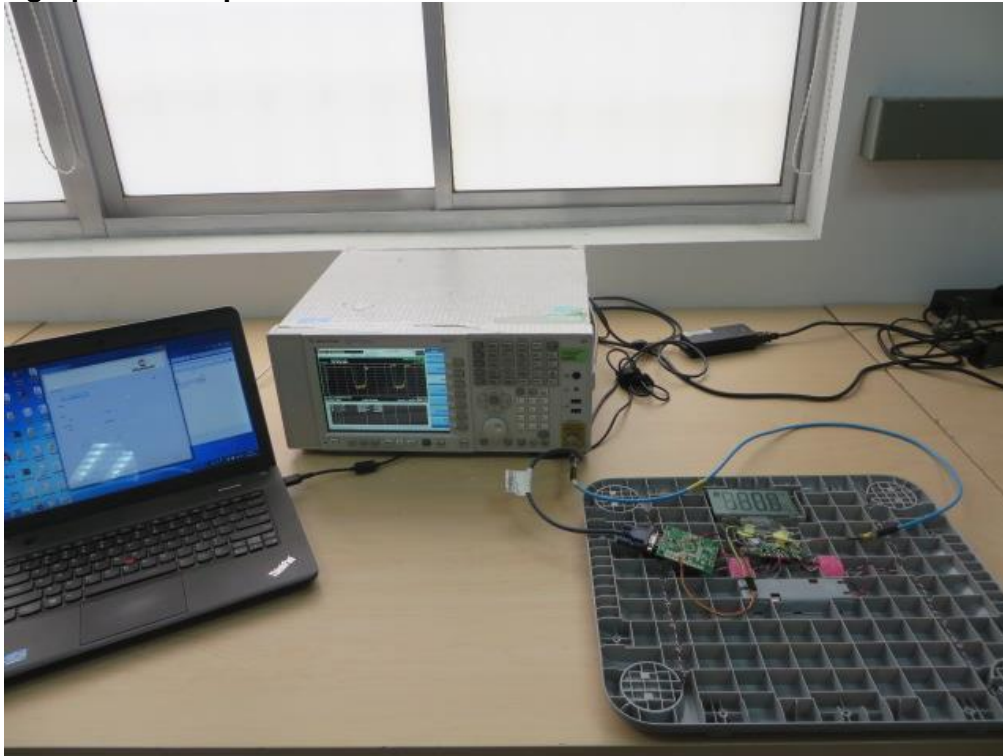
The EUT is well below the 4mW power level.

Conclusion

SAR data is not required for either FCC or IC.

Appendix II- Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted RF test at Antenna Port



Photograph 2: Set-up for Spurious Emissions below 1GHz



Photograph 3: Set-up for Spurious Emissions above 1GHz

