

JAPAN MIC

Radio Test Report

FOR

Applicant: IMEDIPLUS INC
2F, 12, ShengYi Rd. Sec. 2, Chupei City, Hsinchu County 302,
Taiwan(R.O.C.)

Product Name: Electronic stethoscope

Brand Name: CaRDiaRT

Model No.: DS101, Omni-Steth

Model Difference: DS101 is silver color, Omni-Steth is white color.

Report Number: ER/2018/30110

Issue Date: Jun. 13, 2018

Date of Test: Mar. 26, 2018~ Apr. 11, 2018

Date of EUT Received: Mar. 26, 2018

Place of Testing No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District,
New Taipei City, Taiwan 24803

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

We hereby declare that:

The data presented with this application to be true and correct; and That our testing equipment is regularly serviced and properly calibrated; and We agree to maintain records of data for a minimum of ten (10) years in our laboratory for immediate presentation upon request by Telefication B.V..

Measurement was conducted by the following test method:

the test method of Ordinance Concerning Technical Regulations
Conformity Certification etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and Communication notification in Annex 43 of Article 88, Paragraph 1 or the test method more than equivalent.

Tested By:



Marcus Tseng / Engineer

Approved By:



Jim Chang / Manager

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2018/30110	Rev.00	Initial creation of document	All	Jun. 13, 2018	Yuri Tsai

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General information

General:

Product Name:	Electronic stethoscope
Brand Name:	CaRDiaRT
Model No.:	DS101, Omni-Steth
Model Difference:	DS101 is silver color, Omni-Steth is white color.
Hardware Version:	A3+
Software Version:	V101.01.B1
Power Supply:	3 Vdc from AAA Battery*2

Type, frequency of transmittable radio wave and rated output	F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)
	1.49279 mW

Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
Ceramic Chip	ANT3216LL00R2400A	YAGEO	H+V	5.05

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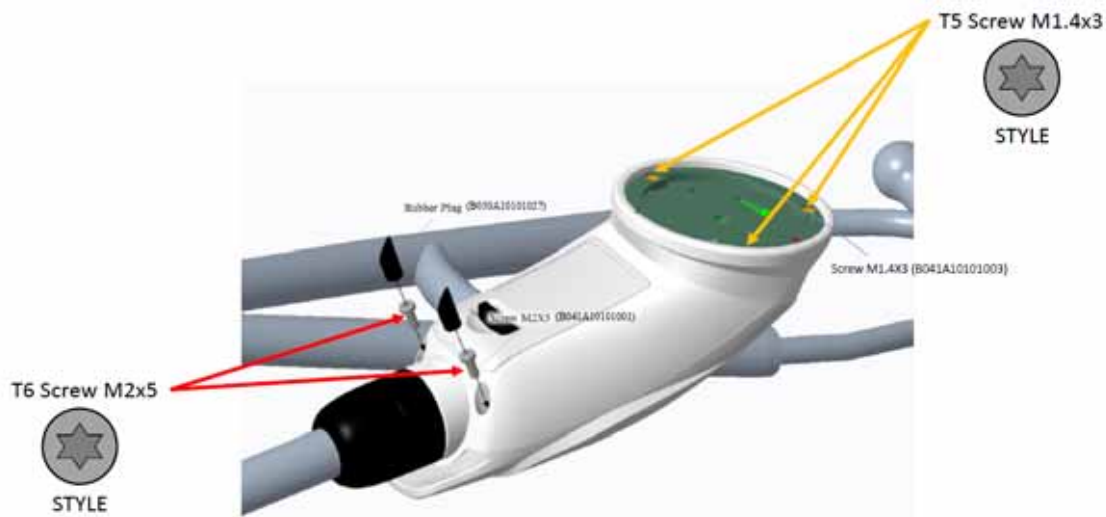
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1.2 Assemble (Not easy open)

The housings are combined inaccessible by special screws. The plastic housing will be destroyed when trying to open.



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2 DESCRIPTION OF TEST

Environment of Test Room	Temperature	24	°C
	Humidity	63	%

Peak Antenna Gain	5.05	dBi
Rated output	1.493	mW
Rated output	1.7400	dBm
E.I.R.P.	6.7900	dBm
Input Voltage	3	VDC

Tested Circuit Insertion Loss		4.5	dB
Burst	ON TIME	0.00408	sec
	OFF TIME	0.002186	sec
	Ratio	65.11	%
Packet Type (Mode)		BT LE	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System
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The reason why test are performed only rated voltage
When the input voltage to receiver RF circuit varies below $\pm 1\%$ as the input voltage from the external power supply to the receiver varies $\pm 10\%$ (excluding power supply).

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3 ABOUT UNCERTAINTY OF MEASURED VALUE

*In this test, the influence of an error or uncertainty may be done according to the following factors.

- Bias of a measurement equipment, Change by aging, Attrition, Noise
- Skill and capability of an inspector
- Environment (Temperature, Humidity)
- Dispersion in a EUT (Equipment Under Test)
- Uncertainty of calibration of a measurement equipment

Therefore, Synthetic uncertainty is calculated using "k=2" of coverage factor, and about 95% of confidence level shall be obtained.

In consideration of the above, it judged as follows.

JUDGE	Measured value and Standard limit value	
PASS	<div> <div>Case1</div> <div>Standard limit value</div> <div> <div>+uncertainty</div> <div>-uncertainty</div> <div>Measured value</div> </div> </div>	*Even if it takes uncertainty into consideration, a standard limit value is fulfilled.
	<div> <div>Case2</div> <div> <div></div> <div></div> </div> </div>	*Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.
FAIL	<div> <div>Case3</div> <div> <div></div> <div></div> </div> </div>	*Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.
	<div> <div>Case4</div> <div> <div></div> <div></div> </div> </div>	*Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.

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4 MEASUREMENT EQUIPMENT LIST

Conducted

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	2017/10/16	2018/10/15
DC Power Supply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17
Bluetooth Test Set	Anritsu	MT8852B	6k00006107	2017/08/08	2018/08/07
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	2018/01/02	2019/01/01

Output Power

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	2017/10/16	2018/10/15
Power Sensor	Anritsu	MA2411B	1207365	2017/10/16	2018/10/15
Power Sensor	Anritsu	MA2411B	1207368	2017/10/16	2018/10/15
DC Power Supply	Anritsu	E3640A	MY40000811	2017/12/18	2018/12/17
Bluetooth Test Set	Anritsu	MT8852B	6k00006107	2017/08/08	2018/08/07
Power Splitter	Mini-Circuits	ZN2PD-9G-S+	N/A	2018/01/02	2019/01/01

Note 1: The validity of measurement equipment is one year from the first day of the following month of the calibration date.

(e.g. If the calibration date is December 15th, 2014, measurement equipment can be used from December 15th, 2014 to December 31st, 2015.)

Note 2: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology(NICT)(hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) : Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

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5 TEST RESULTS:

Measurement Frequency	MHz	2402	2442	2480	Result	NOTES
Channel Number	Ch.	0	20	39	-----	
Reading Frequency	MHz	2401.99241	2441.99066	2479.99168	-----	
Frequency Tolerance	ppm	-3.15987	-3.82473	-3.35484	PASS	
Occupied Bandwidth	MHz	1.2187	1.2231	1.2206	PASS	
Spread Bandwidth	MHz	-	-	-	-	-
RF Output Power	mW	1.469	1.493	1.057	PASS	
	dBm	1.670	1.740	0.240		
RF Output Power Tolerance	%	-1.60	0.00	-29.21	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.058076	0.041115	PASS	
		dBm/MHz	-42.36	-43.86		
		MHz	2377.29	2240.84		
	2387-2400MHz	μW/MHz	0.454988	0.041591	PASS	
		dBm/MHz	-33.42	-43.81		
		MHz	2399.99	2399.61		
	2483.5-2496.5MHz	μW/MHz	0.036813	0.039264	PASS	
		dBm/MHz	-44.34	-44.06		
		MHz	2487.00	2492.77		
	2496.5 - 26.5GHz	μW/MHz	0.076736	0.084918	PASS	
		dBm/MHz	-41.15	-40.71		
		MHz	3795.70	3818.21		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW/MHz	0.0016	0.0015	PASS	
		dBm/MHz	-88.03	-88.35		
		MHz	854.74	747.19		
	1 - 12.5GHz	nW/MHz	0.0622	0.0685	PASS	
		dBm/MHz	-72.06	-71.64		
		MHz	4981.88	5055.19		
Interference Prevention Function	-----	Good			PASS	

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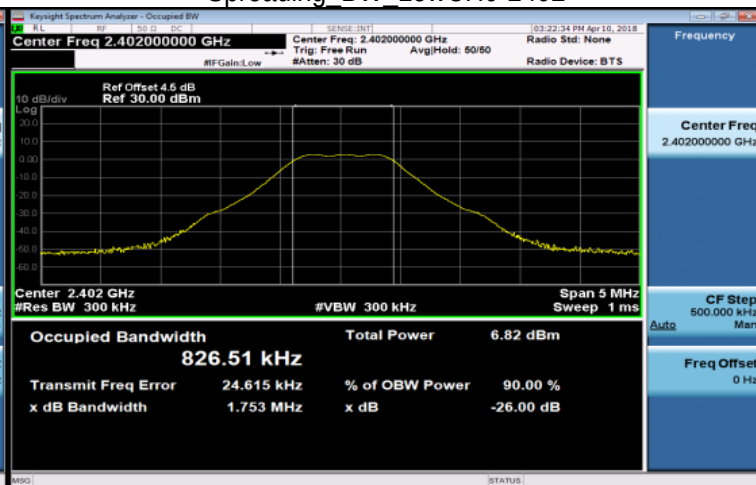
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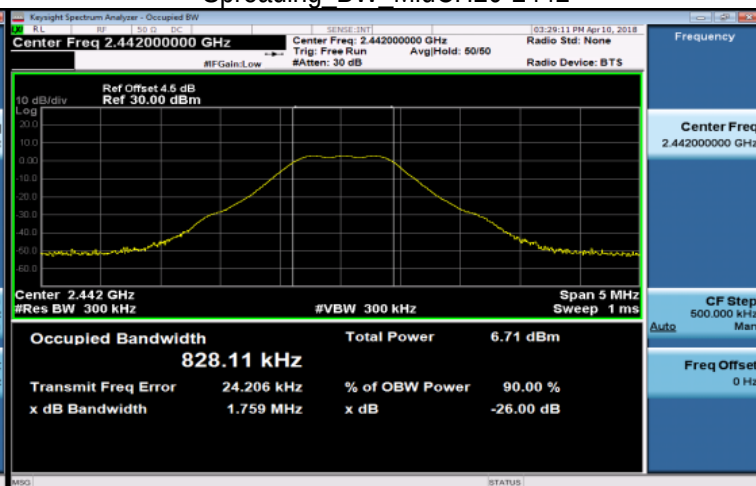
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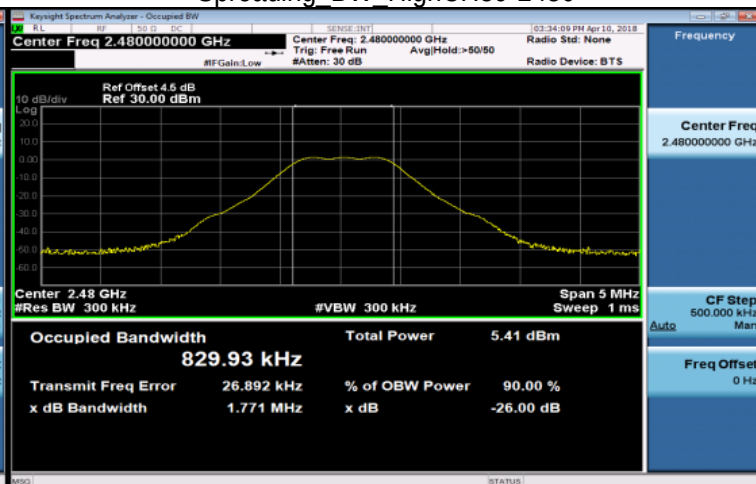
Spreading BW LowCH0-2402



Spreading BW MidCH20-2442



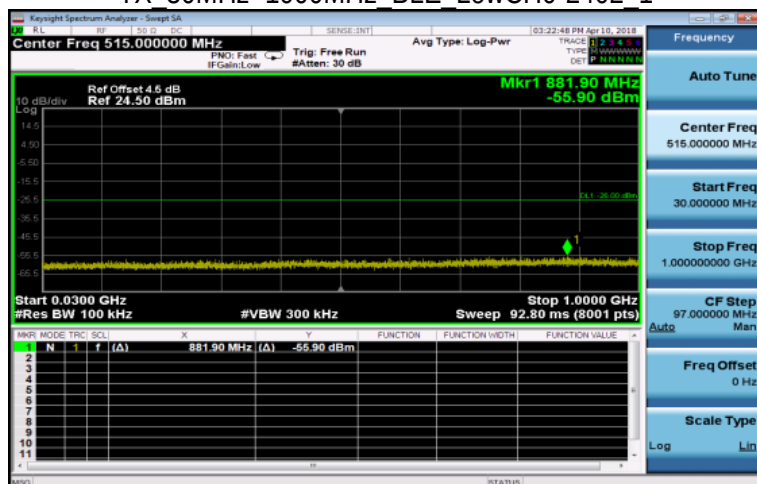
Spreading BW HighCH39-2480



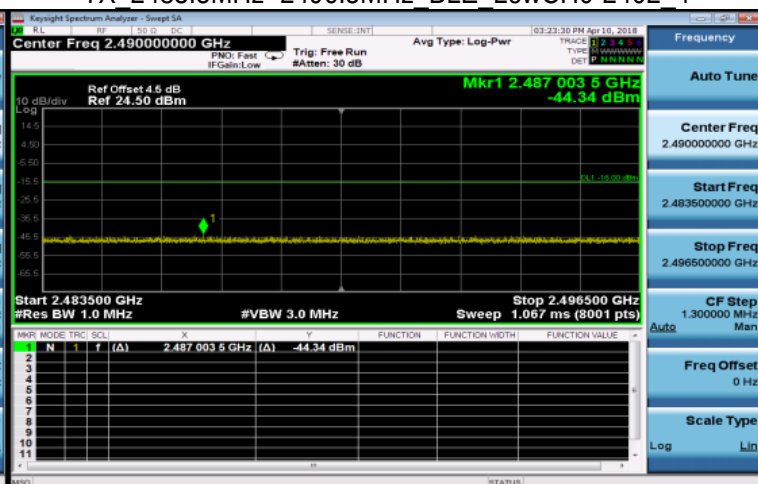
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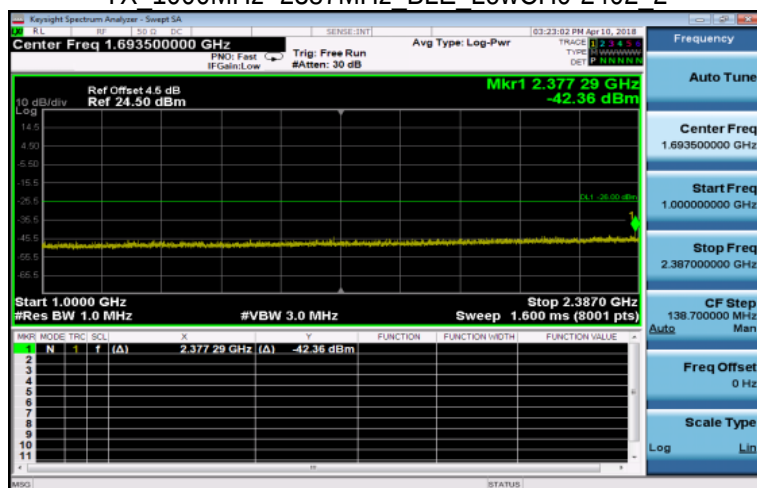
TX 30MHz~1000MHz BLE LowCH0-2402 1



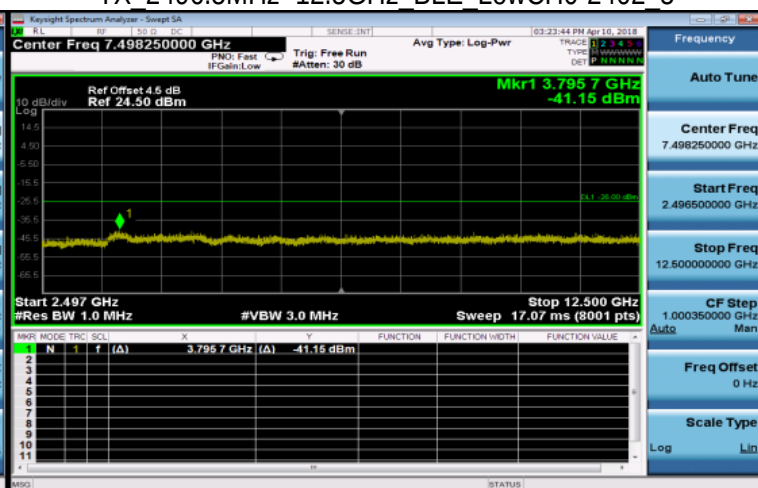
TX 2483.5MHz~2496.5MHz BLE LowCH0-2402 4



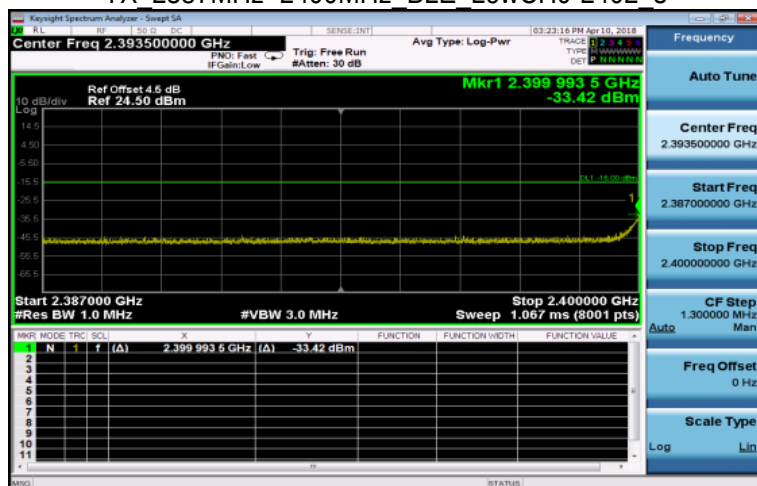
TX 1000MHz~2387MHz BLE LowCH0-2402 2



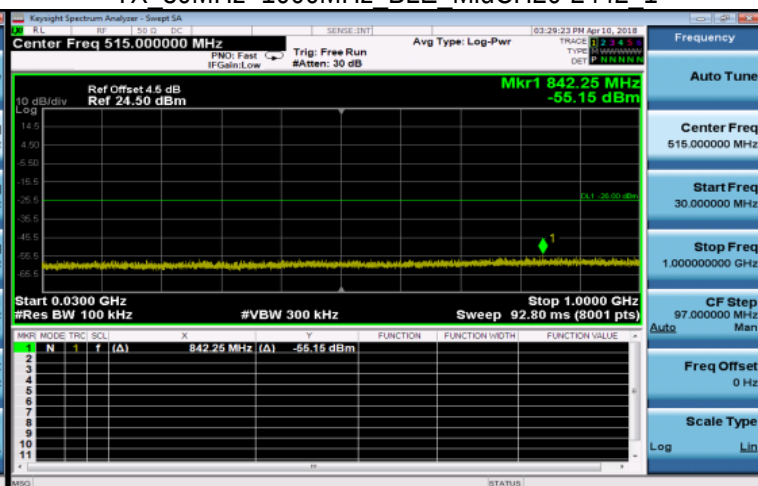
TX 2496.5MHz~12.5GHz BLE LowCH0-2402 5



TX 2387MHz~2400MHz BLE LowCH0-2402 3



TX 30MHz~1000MHz BLE MidCH20-2442 1

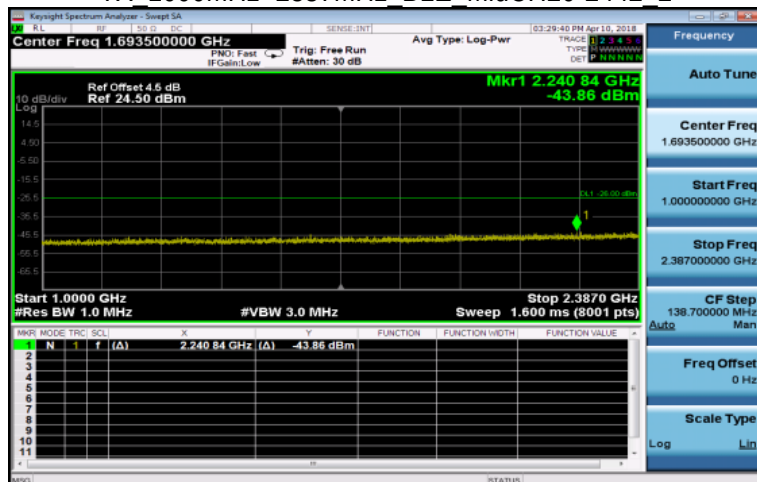


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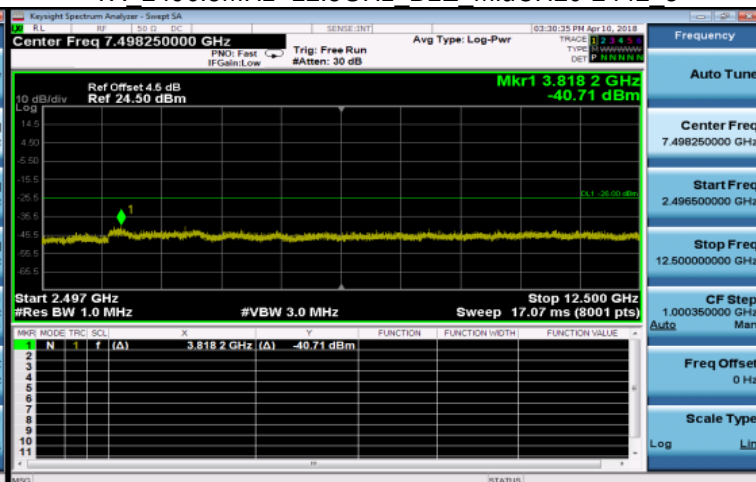
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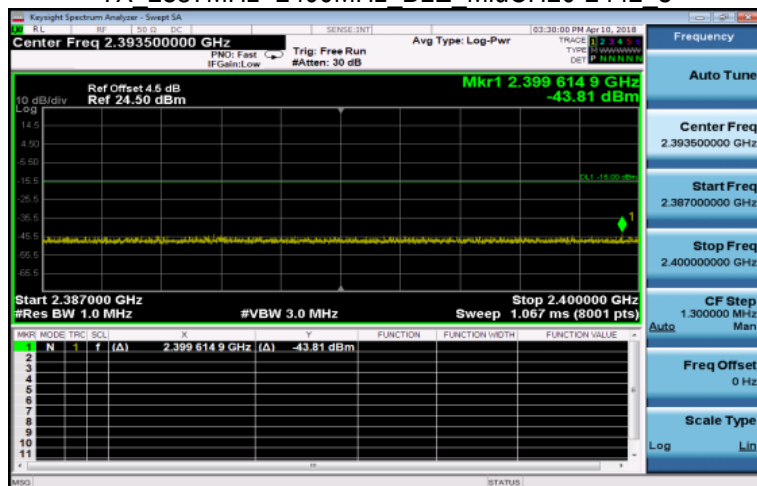
TX 1000MHz~2387MHz BLE MidCH20-2442 2



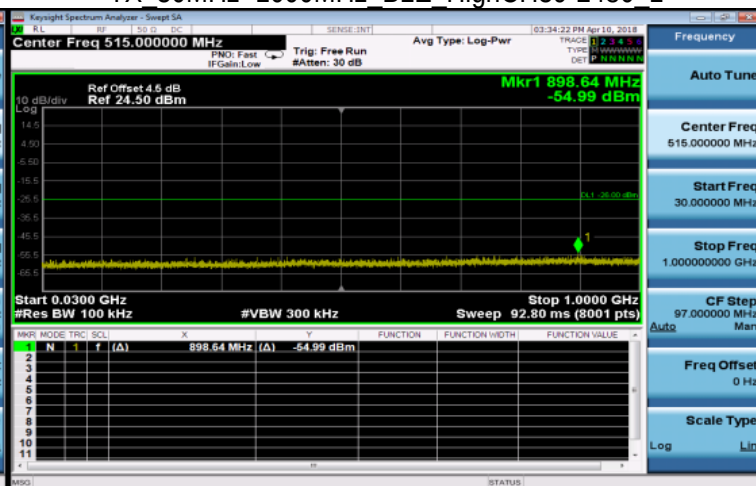
TX 2496.5MHz~12.5GHz BLE MidCH20-2442 5



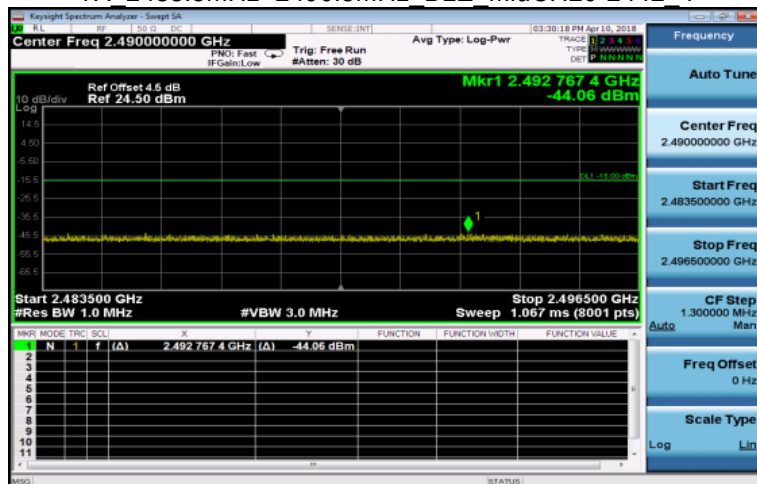
TX 2387MHz~2400MHz BLE MidCH20-2442 3



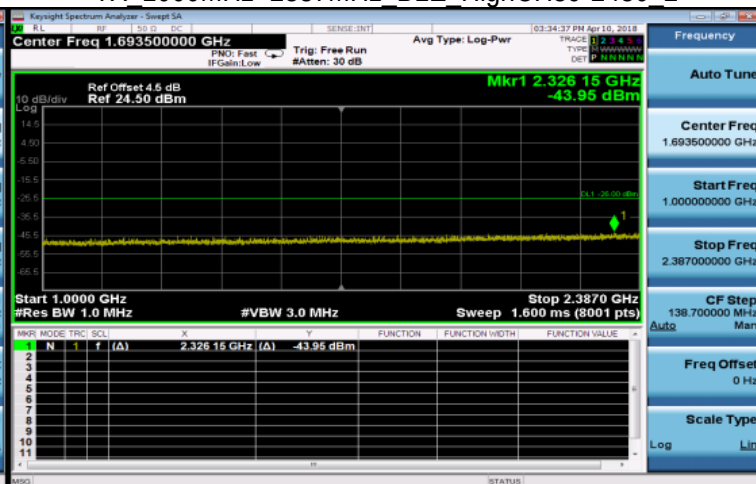
TX 30MHz~1000MHz BLE HighCH39-2480 1



TX 2483.5MHz~2496.5MHz BLE MidCH20-2442 4



TX 1000MHz~2387MHz BLE HighCH39-2480 2



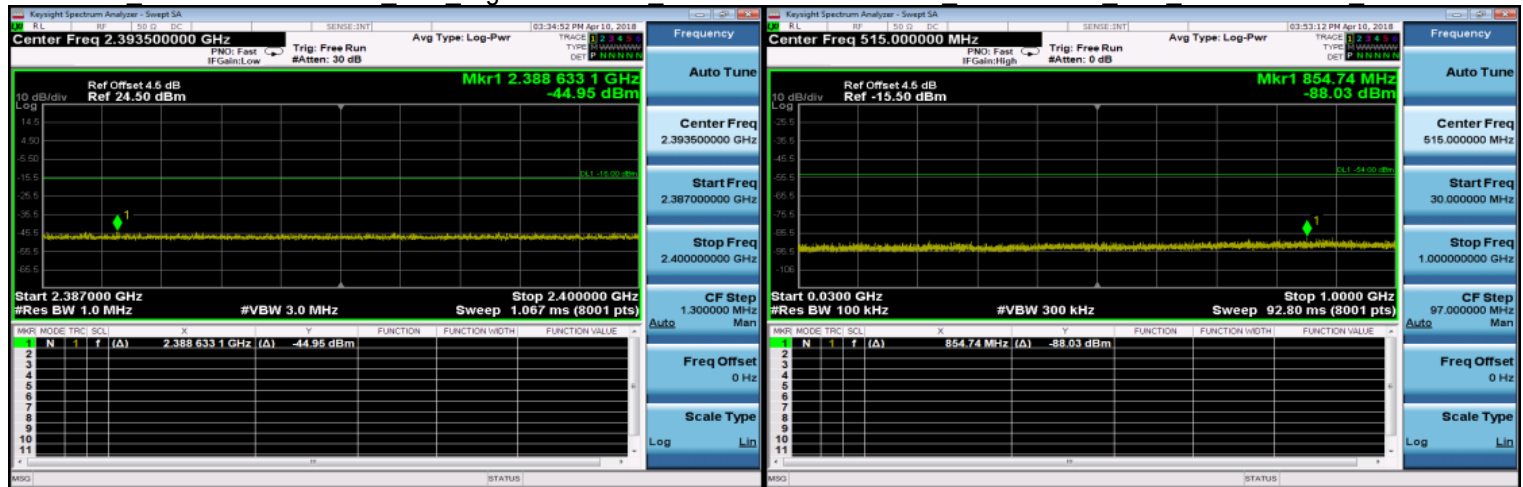
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TX 2387MHz~2400MHz BLE HighCH39-2480 3

RX Below 1GHz BLE LowCH0-2402 1



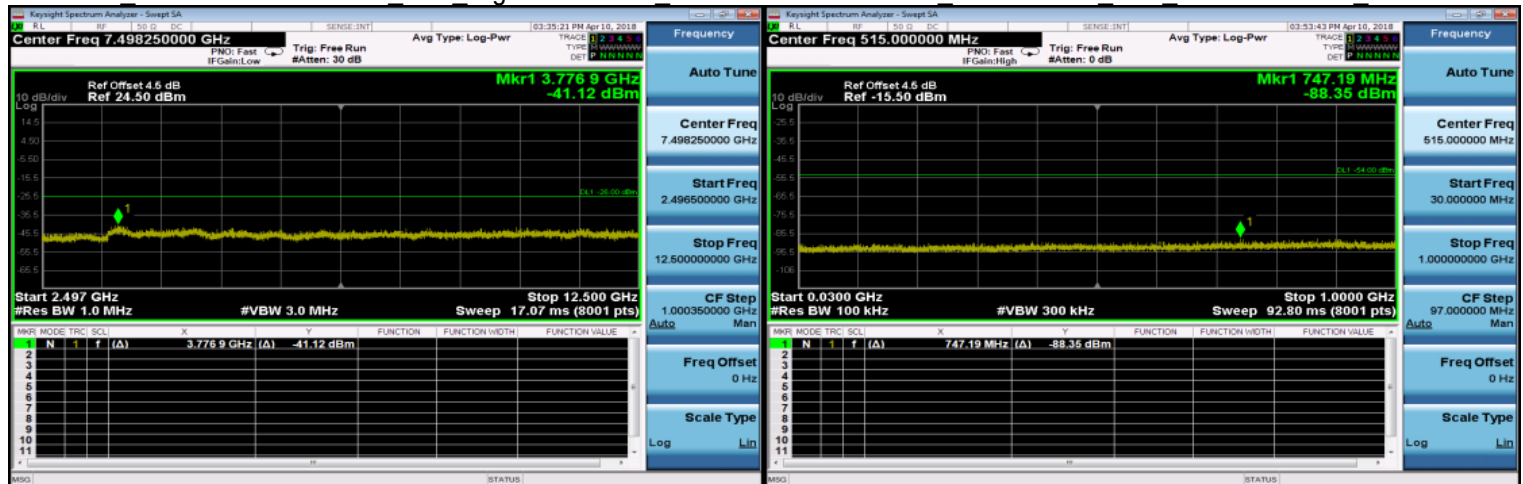
TX 2483.5MHz~2496.5MHz BLE HighCH39-2480 4

RX Above 1GHz BLE LowCH0-2402 2



TX 2496.5MHz~12.5GHz BLE HighCH39-2480 5

RX Below 1GHz BLE MidCH20-2442 1

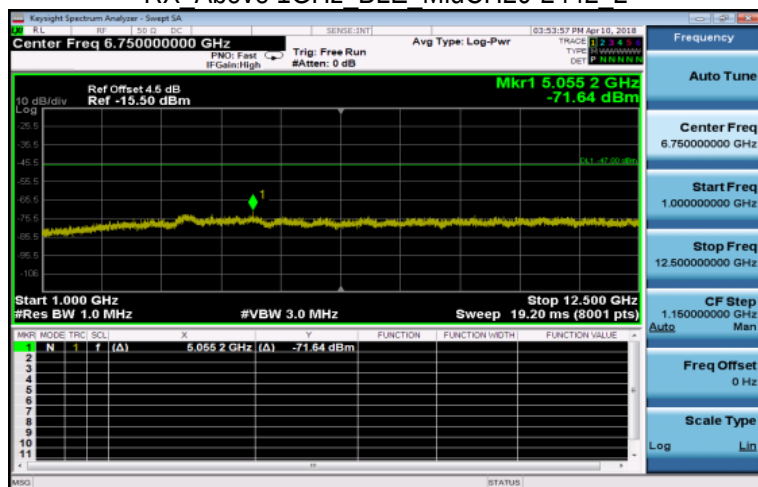


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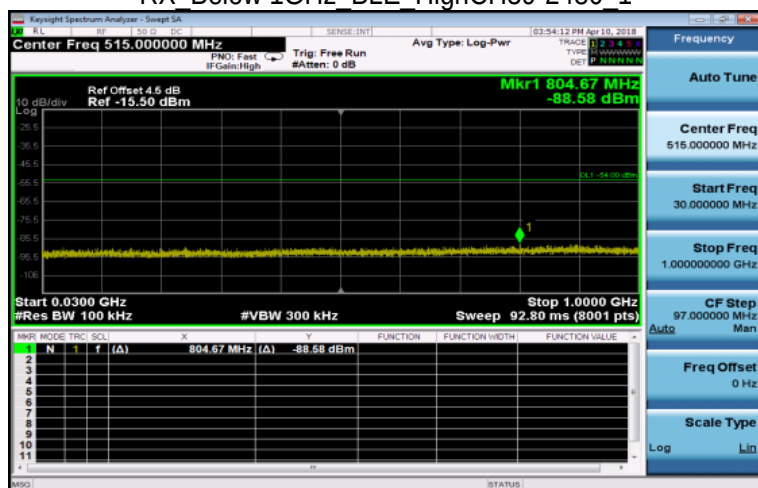
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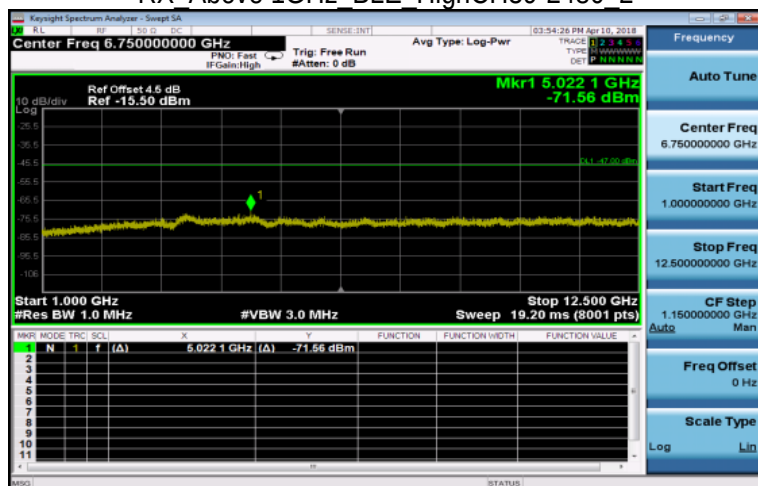
RX Above 1GHz BLE MidCH20-2442 2



RX Below 1GHz BLE HighCH39-2480 1



RX Above 1GHz BLE HighCH39-2480 2

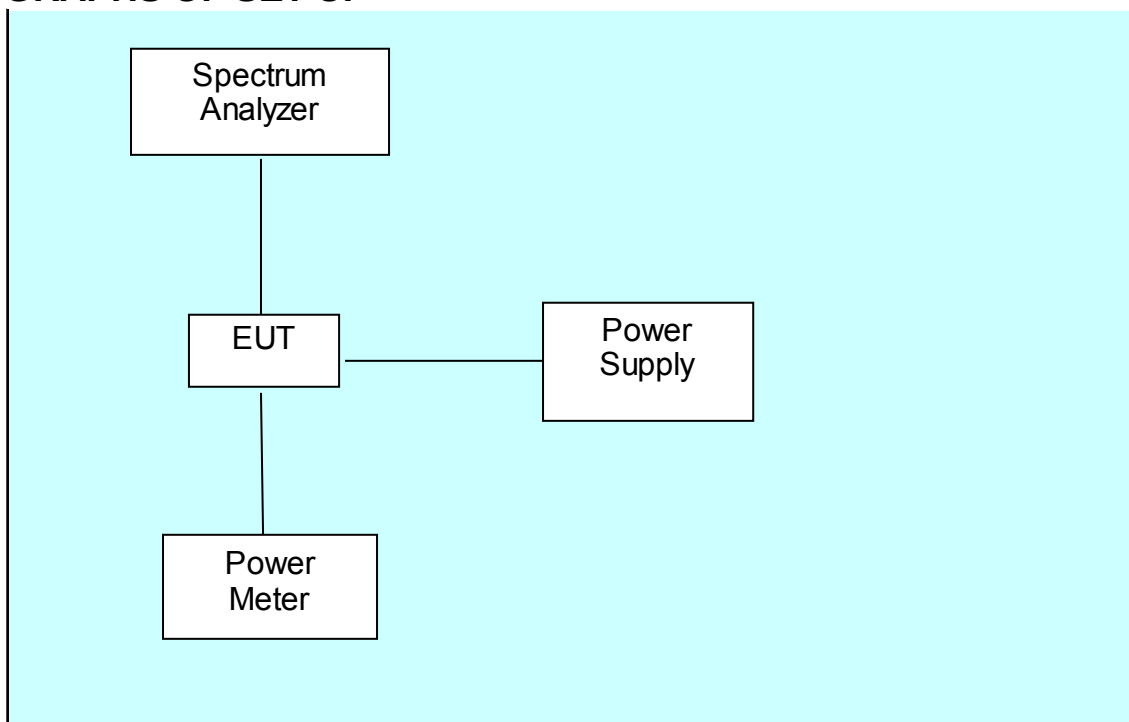


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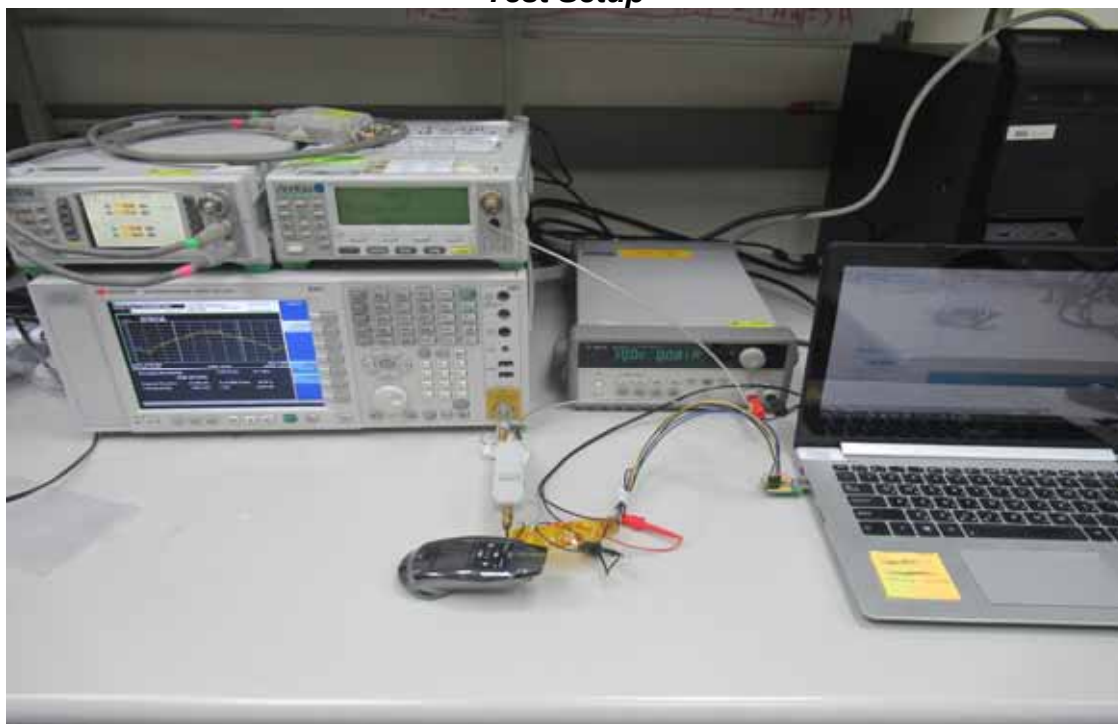
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PHOTOGRAPHS OF SET UP



Test Setup



PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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