

JAPAN MIC

Radio Test Report

FOR

Applicant: SHARP CORPORATION
492 MINOSHO-CHO, YAMATOKORIYAMA-SHI, NARA 639-1186,
JAPAN

Product Name: Bluetooth Transmitter

Brand Name: SHARP

Model No.: AN-WD3

Model Difference: N/A

Report Number: ER/2020/10084

Issue Date: Feb. 06, 2020

Date of Test: Jan. 07, 2020 ~ Feb. 03, 2020

Date of EUT Received: Jan. 07, 2020

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.



Approved By: _____

Allen Tsai / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/10084	Rev.00	Original.	Feb. 06, 2020	Revised By: Violetta Tang

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 General information

General:

Product Name:	Bluetooth Transmitter
Brand Name:	SHARP
Model No.:	AN-WD3
Model Difference:	N/A
Hardware Version:	1.00
Software Version:	1.09
USB Cable:	Model No.: QCNWGA244WJZZ, Supplier: DONGGUAN YUQIU ELECTRONIC CO., LTD.
Power Supply:	5Vdc from USB Port

Type, frequency of
transmittable radio wave
and rated output

F1D 2402MHz-2480MHz(Interval of 2MHz 40ch)
1.503 mW

Antenna Designation

Antenna Type	Part Number	Supplier	Polarization (H or V)	Peak Gain (dBi)
Printing	N/A	Foxconn	H+V	2.22

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1.2 Assemble

The screws are not special, but the labels are firmly attached on the screws and cannot be easily removed. Kindly check the illustration as below.

STEP1

Turn it over and remove the label.



STEP2

Remove the screw hidden under the label.



STEP3

Remove the cabinet using the recess at the end.



STEP4

Open the cabinet to remove the board.



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2 DESCRIPTION OF TEST

Environment of Test Room	Temperature	25.1	°C
	Humidity	52	%

Peak Antenna Gain	2.22	dBi
Rated output	1.5030	mW
Rated output	1.7696	dBm
E.I.R.P.	3.9896	dBm
Input Voltage	5	VDC

Tested Circuit Insertion Loss		1.2651	dB
Burst	ON TIME	0.0004096	sec
	OFF TIME	0.0002159	sec
	Ratio	65.48	%
Packet Type (Mode)		BT LE	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

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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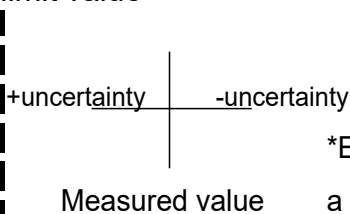
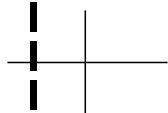
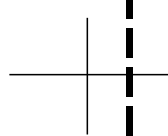
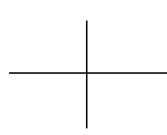
3 ABOUT UNCERTAINTY OF MEASURED VALUE

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

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4 MEASUREMENT EQUIPMENT LIST

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibration Authority	LAST CAL.	Cal. Method
Power Meter	Anritsu	ML2496A	1804001	ETC	02/13/2019	c)
Power Sensor	Anritsu	MA2411B	1726104	ETC	02/13/2019	c)
Power Sensor	Anritsu	MA2411B	1726107	ETC	02/13/2019	c)
DC Power Supply	Agilent	E3640A	MY52410006	SGS	12/10/2019	c)
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	ETC	05/02/2019	c)
DC Block	Mini-Circuits	BLK-18-S+	1	SGS	01/02/2020	c)

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	2401.98913	2441.98781	2479.9892	-----	
Frequency Tolerance	ppm	-4.52540	-4.99181	-4.35484	PASS	
Occupied Bandwidth	MHz	0.0000	0.0000	0.0000	PASS	
Spread Bandwidth	MHz	-	-	-	-	-
RF Output Power	mW	1.08393	1.50314	1.31220	PASS	
	dBm	0.350	1.770	1.180		
RF Output Power Tolerance	%	-27.88	0.01	-12.69	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μ W/MHz	0.020941	0.023605	0.025468	PASS
		dBm/MHz	-46.79	-46.27	-45.94	
		MHz	2298.32	2338.39	2376.10	
	2387-2400MHz	μ W/MHz	0.461318	0.005346	0.002904	PASS
		dBm/MHz	-33.36	-52.72	-55.37	
		MHz	2399.99	2390.15	2398.95	
	2483.5-2496.5MHz	μ W/MHz	0.003443	0.006855	0.007568	PASS
		dBm/MHz	-54.63	-51.64	-51.21	
		MHz	2495.53	2493.78	2483.57	
	2496.5 - 12.5GHz	μ W/MHz	0.040644	0.045814	0.053827	PASS
		dBm/MHz	-43.91	-43.39	-42.69	
		MHz	2506.50	2545.27	2584.03	
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW/MHz	0.0027	0.0026	0.0030	PASS
		dBm/MHz	-85.66	-85.80	-85.29	
		MHz	459.95	783.93	534.64	
	1 - 12.5GHz	nW/MHz	0.1191	0.1476	0.1315	PASS
		dBm/MHz	-69.24	-68.31	-68.81	
		MHz	2414.50	2414.50	2414.50	
Interference Prevention Function	-----	Good			PASS	

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VOLTAGE VARIATION

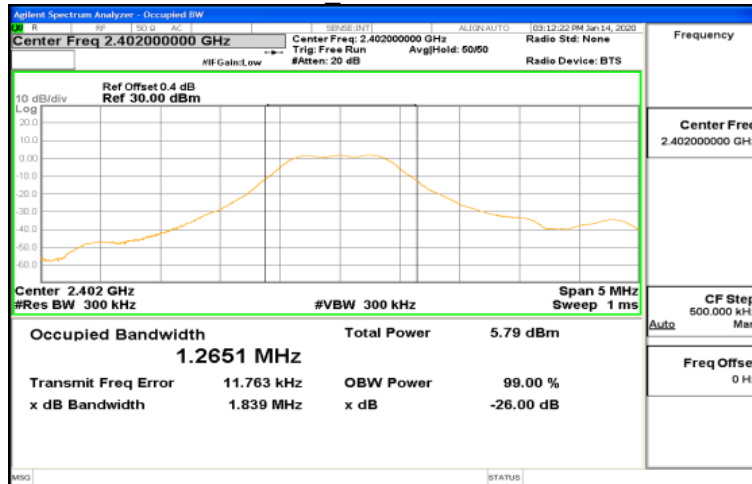
Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	5	5.5	4.5
Output DC Power	1.79	1.79	1.79
Voltage Variation (%)	0	0	0
Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100			
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.			

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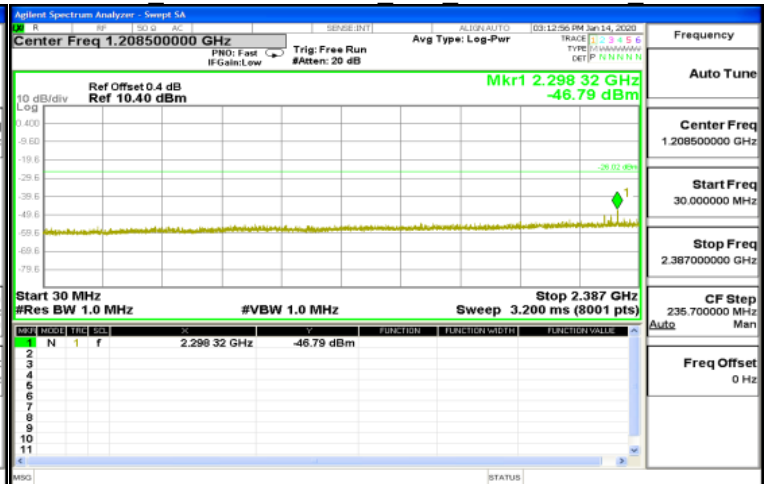
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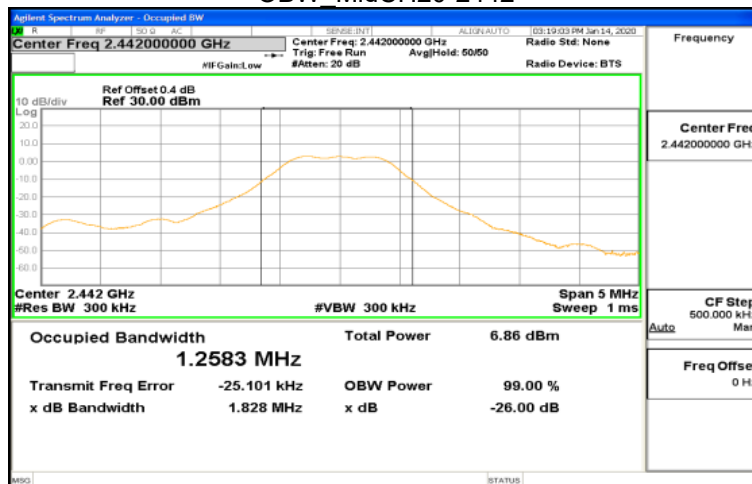
OBW LowCH0-2402



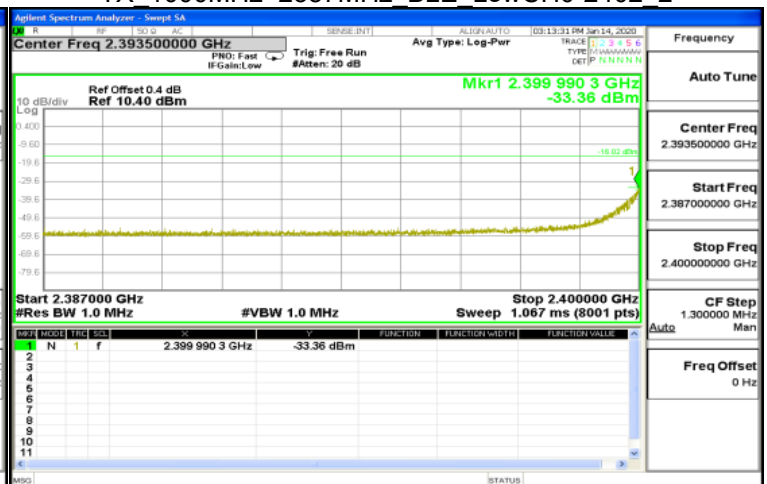
TX 10MHz~1000MHz BLE LowCH0-2402 1



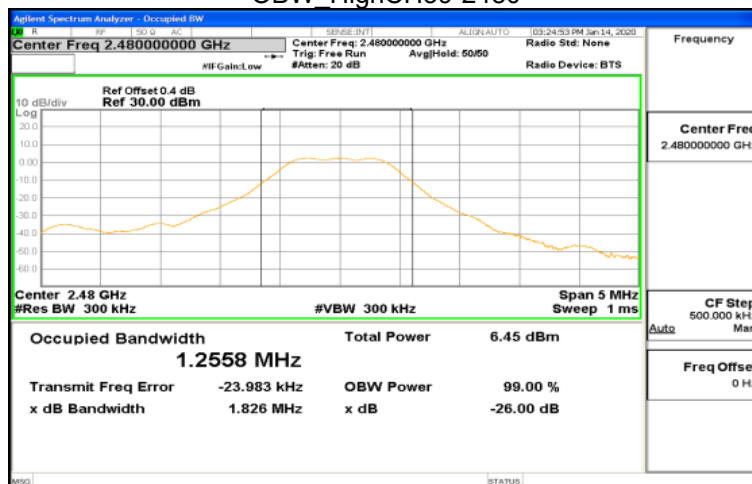
OBW MidCH20-2442



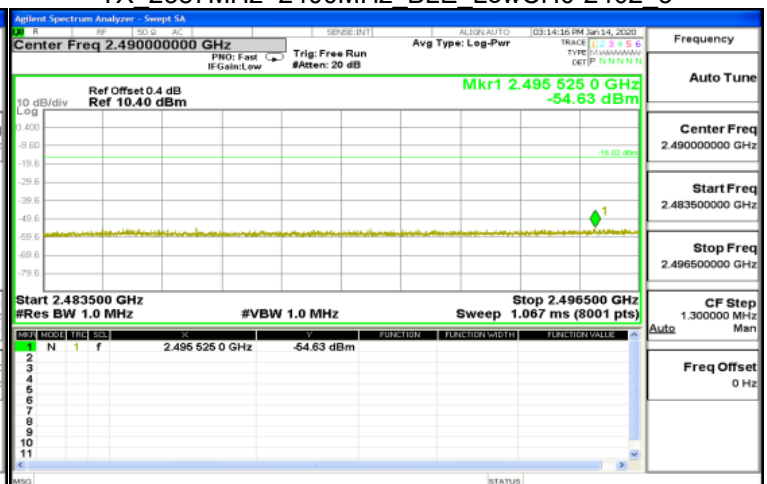
TX 1000MHz~2387MHz BLE LowCH0-2402 2



OBW HighCH39-2480



TX 2387MHz~2400MHz BLE LowCH0-2402 3

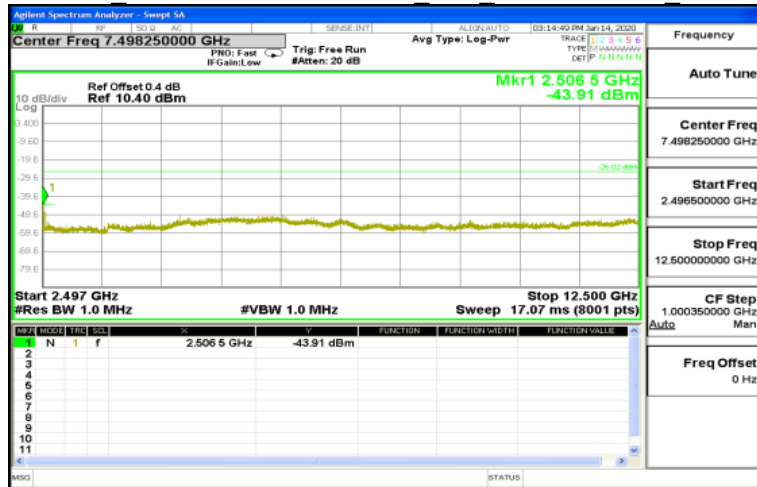


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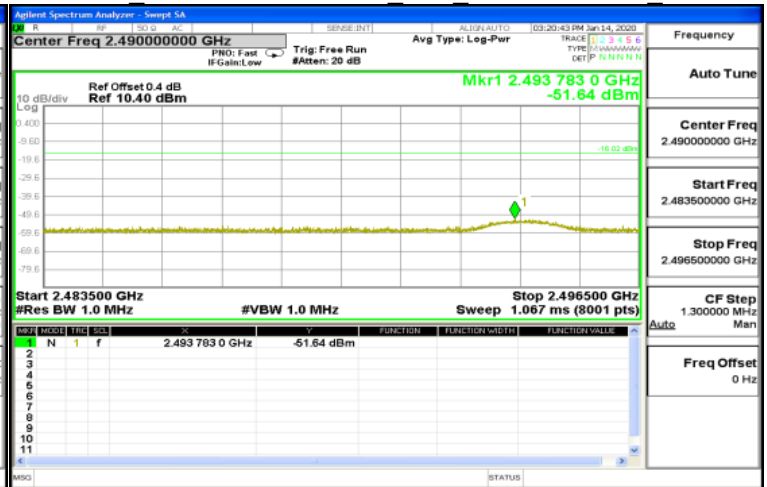
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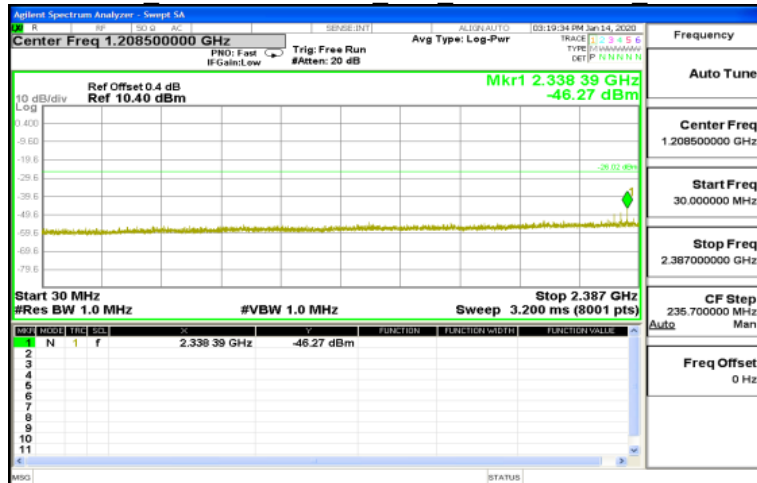
TX 2483.5MHz~2496.5MHz BLE LowCH0-2402 4



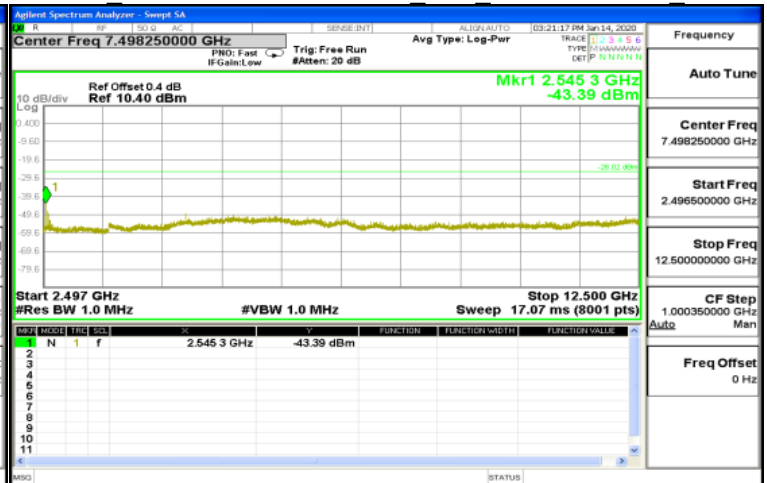
TX 2387MHz~2400MHz BLE MidCH20-2442 3



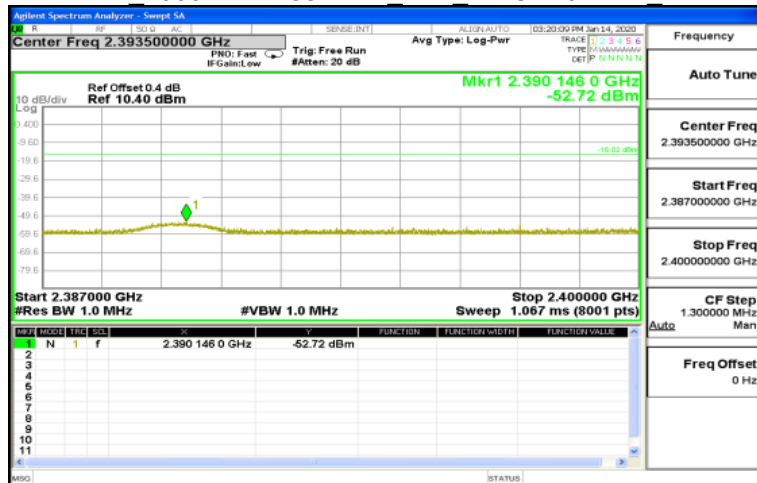
TX 10MHz~1000MHz BLE MidCH20-2442 1



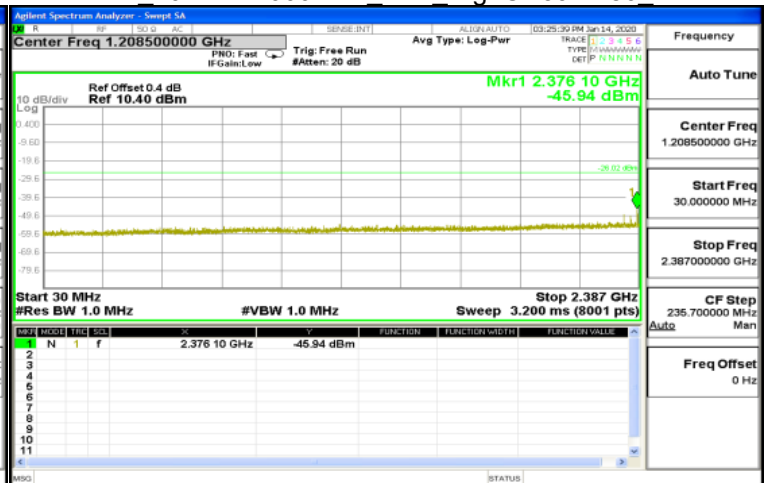
TX 2483.5MHz~2496.5MHz BLE MidCH20-2442 4



TX 1000MHz~2387MHz BLE MidCH20-2442 2



TX 10MHz~1000MHz BLE HighCH39-2480 1

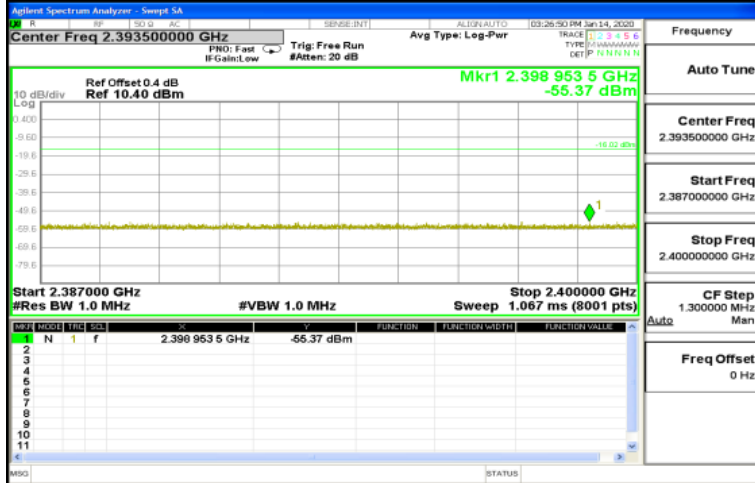


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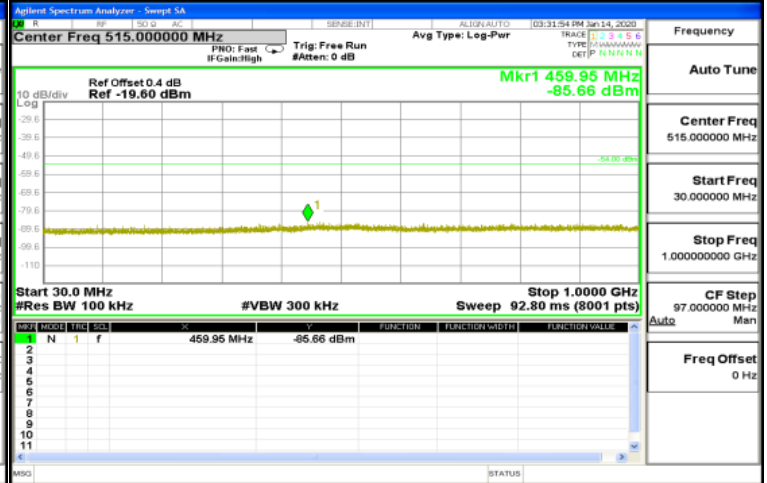
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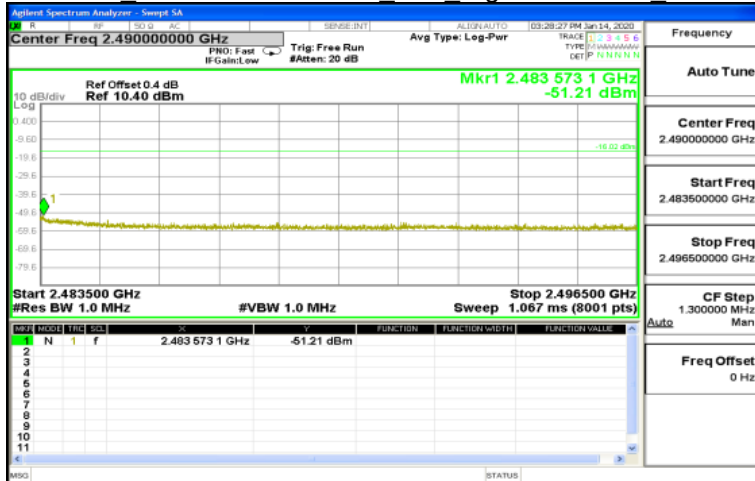
TX 1000MHz~2387MHz BLE HighCH39-2480 2



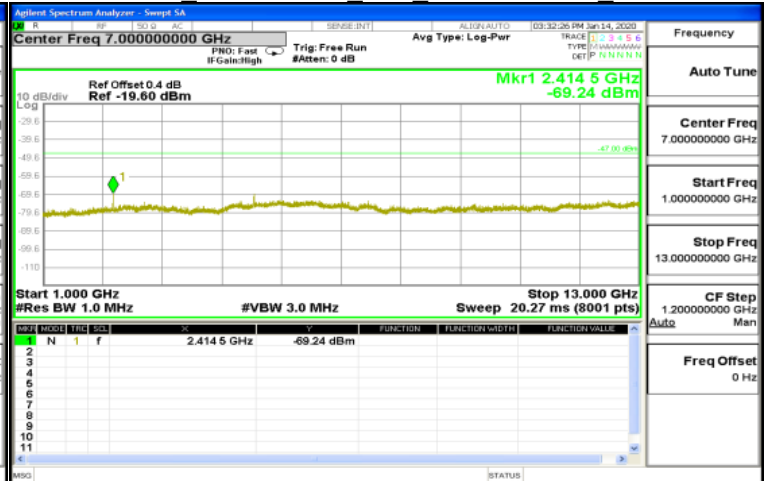
RX Below 1GHz BLE LowCH0-2402 1



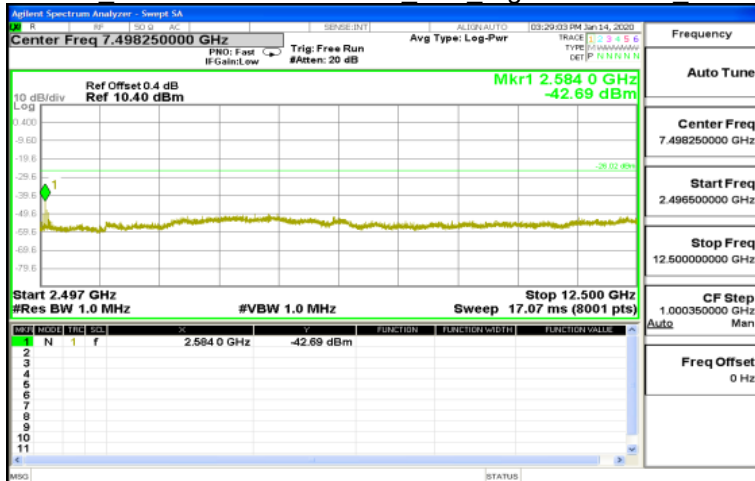
TX 2387MHz~2400MHz BLE HighCH39-2480 3



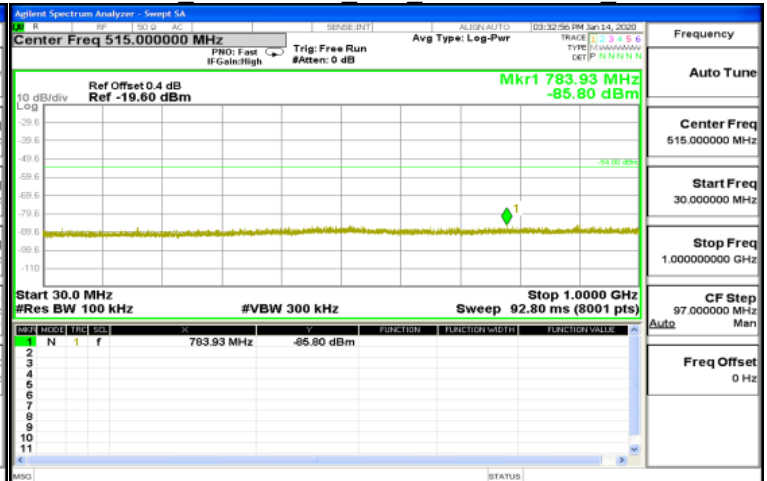
RX Above 1GHz BLE LowCH0-2402 2



TX 2483.5MHz~2496.5MHz BLE HighCH39-2480 4



RX Below 1GHz BLE MidCH20-2442 1

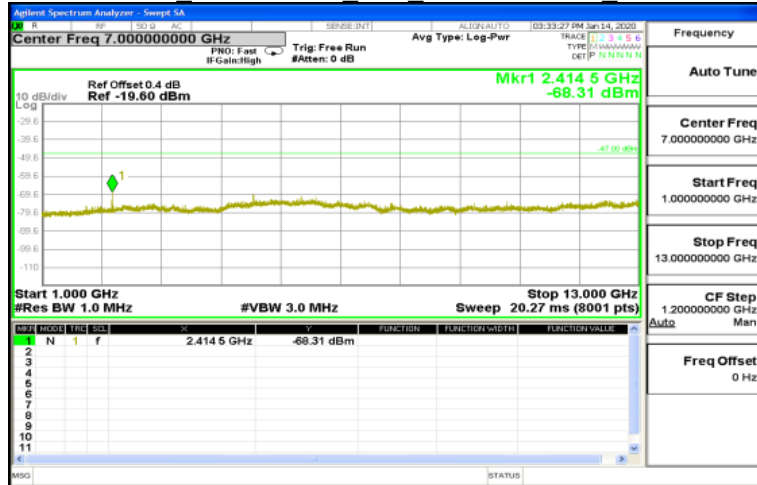


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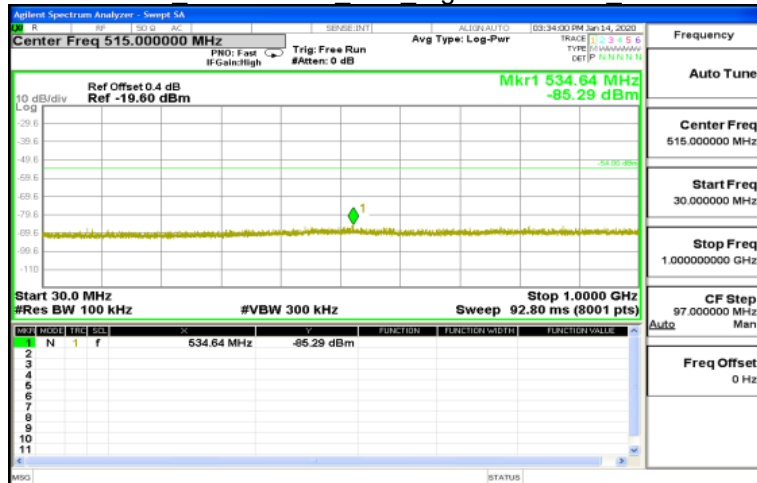
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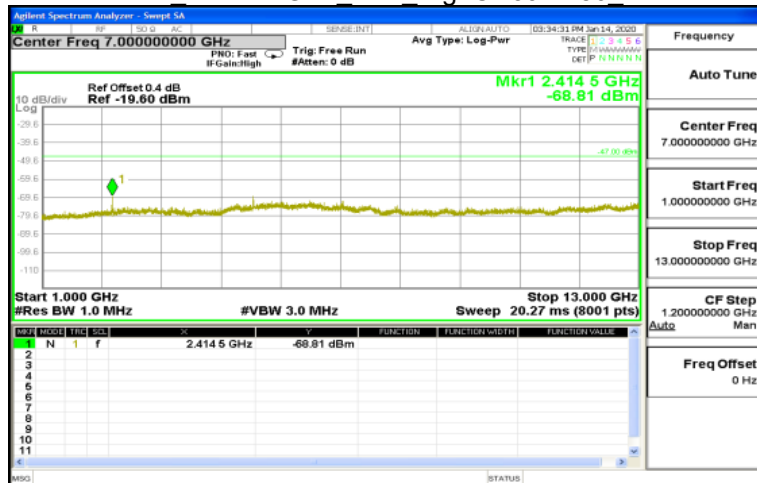
RX Above 1GHz BLE MidCH20-2442 2



RX Below 1GHz BLE HighCH39-2480 1



RX Above 1GHz BLE HighCH39-2480 2

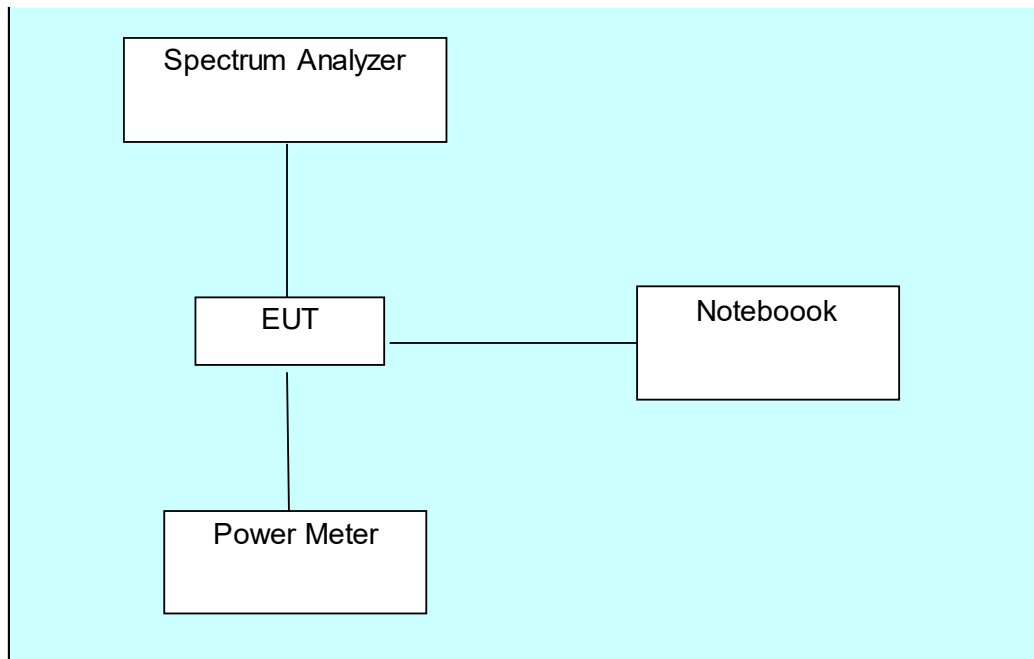


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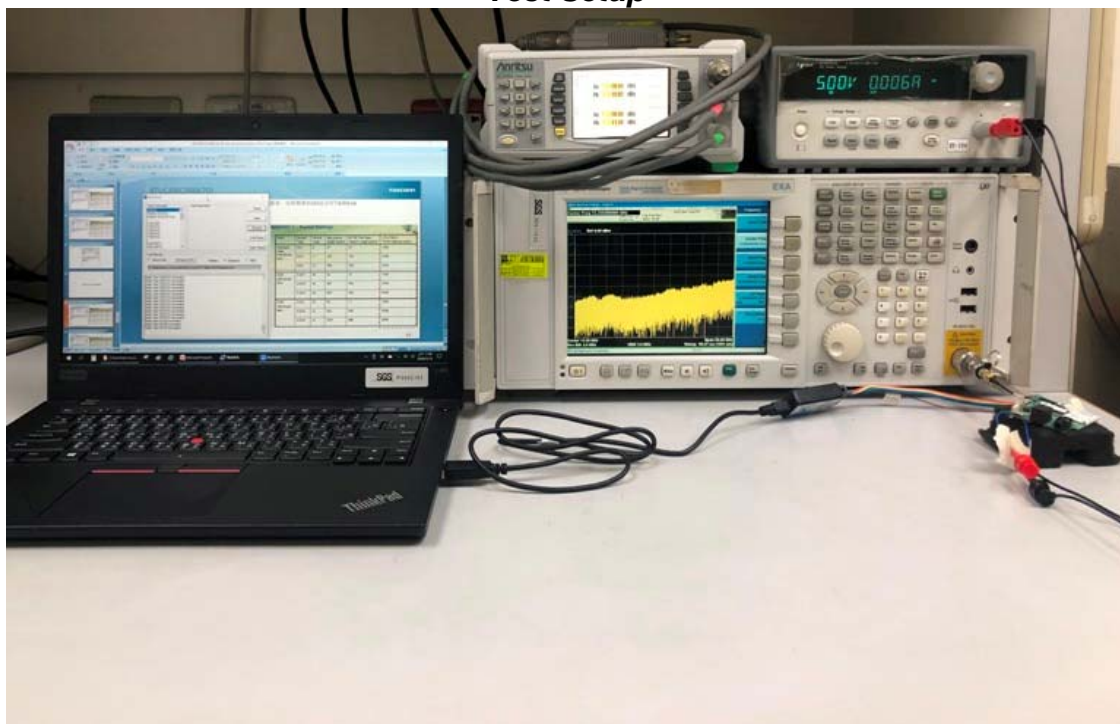
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PHOTOGRAPHS OF SET UP



Test Setup



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PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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