

JAPAN MIC

Radio Test Report

Applicant: LOGITECH FAR EAST LTD.
#2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan,
R.O.C.

Manufacturer: Logitech Europe S.A.
EPFL – Quartier de l'Innovation Daniel Borel Innovation
Center, 1015 Lausanne, Switzerland.

Product Name: Environmental Sensor

Brand Name: logi, logicool

Model No.: VR0051

Report Number: TERF2509003033E2

Place of Testing SGS Taiwan Ltd. Central RF Lab
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

Test Result PASS

Classification of Specified Radio Equipment Article 2 Clause 1 Item 19

Date of EUT Received: July 28, 2025

Date of Test: October 15, 2025

Issue Date: January 6, 2026

Approved By: _____

Arno Hsieh

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 the Certification Body.

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.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2509003033E2	00	Original	January 6, 2026	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of trademarks is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
and are assessed as identical in hardware and firmware to each other.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Environmental Sensor
Brand Name:	logi, logicool
Model No.:	VR0051
Hardware Version:	PB2
Firmware Version:	1.0.138
Power Supply:	3.6 Vdc

1.2 RF Specification

BLE 1M

Type, frequency of

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

Transmittable radio wave
and declaration output power

4.331 mW

BLE 2M

Type, frequency of

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

Transmittable radio wave
and declaration output power

2.717 mW

BLE 125k

Type, frequency of

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

Transmittable radio wave
and declaration output power

4.452 mW

BLE 500k

Type, frequency of

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

Transmittable radio wave
and declaration output power

4.391 mW

1.3 Antenna Designation

Antenna Type	Polarization (H or V)	Peak Gain (dBi)
PCB	H+V	1.48

Note:

The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Assemble

The plastic enclosures are assembled by fixed Torx screw, which will be damaged when product is forced to open.



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2 DESCRIPTION OF TEST

2.1 Test Conditions

Environment of Test Room	Temperature	24	°C
	Humidity	53	%

Peak Antenna Gain	1.48	dBi
Declaration Output Power	4.331	mW
Declaration Output Power	6.366	dBm
E.I.R.P.	7.846	dBm
Input Voltage	3.6	VDC

Tested Cirtit Insertion Loss		10.8	dB
Burst	ON TIME	0.000395	sec
	OFF TIME	0.00023	sec
	Ratio	63.20	%
Packet Type (Mode)		BT LE_1M	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).

Environment of Test Room	Temperature	24	°C
	Humidity	53	%

Peak Antenna Gain	1.48	dBi
Declaration Output Power	2.717	mW
Declaration Output Power	4.342	dBm
E.I.R.P.	5.822	dBm
Input Voltage	3.6	VDC

Tested Cirtit Insertion Loss		10.8	dB
Burst	ON TIME	0.000205	sec
	OFF TIME	0.00042	sec
	Ratio	32.80	%
Packet Type (Mode)		BT LE_2M	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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Environment of Test Room	Temperature	24	°C
	Humidity	53	%

Peak Antenna Gain	1.48	dBi
Declaration Output Power	4.452	mW
Declaration Output Power	6.486	dBm
E.I.R.P.	7.966	dBm
Input Voltage	3.6	VDC

Tested Circuit Insertion Loss		10.8	dB
Burst	ON TIME	0.003105	sec
	OFF TIME	0.000645	sec
	Ratio	82.80	%
Packet Type (Mode)		BT LE_125k	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).

Environment of Test Room	Temperature	24	°C
	Humidity	53	%

Peak Antenna Gain	1.48	dBi
Declaration Output Power	4.391	mW
Declaration Output Power	6.425	dBm
E.I.R.P.	7.905	dBm
Input Voltage	3.6	VDC

Tested Circuit Insertion Loss		10.8	dB
Burst	ON TIME	0.001075	sec
	OFF TIME	0.0008	sec
	Ratio	57.33	%
Packet Type (Mode)		BT LE_500k	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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2.2 VOLTAGE VARIATION

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input DC Power	3.6	3.96	3.24
Output DC Power	1.81	1.81	1.81
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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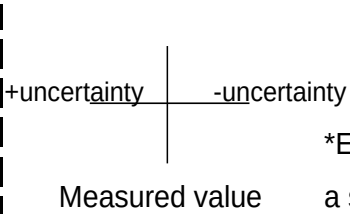
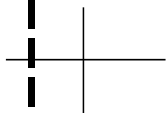
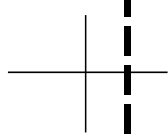
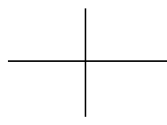
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3 ABOUT UNCERTAINTY OF MEASURED VALUE

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

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4 MEASUREMENT EQUIPMENT LIST

Conducted Emission Test Site: Conducted F						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	Calibration Authority	Cal. Method
Attenuator	Marvelous	MVE2213-10	RF04	11/14/2024	SGS	C)
Attenuator	Woken	WATT-218FS-10	RF12	11/14/2024	SGS	C)
DC Block	PASTERNAK	PE8210	RF38	11/14/2024	SGS	C)
DC Power Supply	Gwinstek	SPS-3610	GEV856769	07/29/2025	ETC	C)
Power Meter	Anritsu	ML2496A	2138005	09/22/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1911395	09/22/2025	ETC	C)
Power Sensor	Anritsu	MA2411B	1911396	09/22/2025	ETC	C)
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/13/2025	ETC	C)
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N/A	N/A

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:

BLE 1M

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES
Channel Number		Ch.	0	39	-----	-----	
Reading Frequency		MHz	2401.981	2479.981	-----	-----	
Frequency Tolerance		ppm	-7.91007	-7.66129	-50≤x≤+50	PASS	
Occupied Bandwidth		MHz	1.0604	1.0650	≤26 MHz	PASS	
RF Output Power		mW	4.026	4.331	≤10 mW	PASS	
		dBm	6.049	6.366	-----		
RF Output Power Tolerance		%	-7.05	-0.01	≤20	PASS	
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.097499	0.112980	≤2.5uW/MHz	PASS	
		dBm/MHz	-40.11	-39.47	-----		
		MHz	2290.50	2368.40	-----		
	2387-2400MHz	μW/MHz	5.382698	0.036559	≤25uW/MHz	PASS	
		dBm/MHz	-22.69	-44.37	-----		
		MHz	2400.00	2399.99	-----		
	2483.5-2496.5MHz	μW/MHz	0.058076	0.210863	≤25uW/MHz	PASS	
		dBm/MHz	-42.36	-36.76	-----		
		MHz	2489.57	2483.57	-----		
	2496.5 - 12.5GHz	μW/MHz	0.370681	0.125893	≤2.5uW/MHz	PASS	
		dBm/MHz	-34.31	-39.00	-----		
		MHz	4804.00	4960.00	-----		
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.0074	0.0091	≤4 nW	PASS	
		dBm/100kHz	-81.31	-80.40	-----		
		MHz	777.20	777.10	-----		
	1 - 12.5GHz	nW	0.4169	1.4997	≤20 nW	PASS	
		dBm/MHz	-63.80	-58.24	-----		
		MHz	4958.00	2514.00	-----		
Interference Prevention Function		-----	Good			PASS	

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BLE 2M

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES	
Channel Number		Ch.	0	39	----	----		
Reading Frequency		MHz	2401.981	2479.981	----	----		
Frequency Tolerance		ppm	-7.91007	-7.66129	-50≤x≤+50	PASS		
Occupied Bandwidth		MHz	2.0487	2.0557	≤26 MHz	PASS		
RF Output Power		mW	2.232	2.717	≤10 mW	PASS		
		dBm	3.487	4.342	----			
RF Output Power Tolerance		%	-17.86	-0.02	≤20	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.096161	0.087902	≤2.5uW/MHz	PASS		
		dBm/MHz	-40.17	-40.56	----			
		MHz	2290.10	2368.70	----			
	2387-2400MHz	μW/MHz	2.630268	0.071614	≤25uW/MHz	PASS		
		dBm/MHz	-25.80	-41.45	----			
		MHz	2400.00	2399.90	----			
	2483.5-2496.5MHz	μW/MHz	0.051404	0.307610	≤25uW/MHz	PASS		
		dBm/MHz	-42.89	-35.12	----			
		MHz	2489.14	2483.68	----			
	2496.5 - 12.5GHz	μW/MHz	0.272898	0.100000	≤2.5uW/MHz	PASS		
		dBm/MHz	-35.64	-40.00	----			
		MHz	4803.00	4959.00	----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW	0.0031	0.0097	≤4 nW	PASS	
			dBm/100kHz	-85.02	-80.15	----		
			MHz	784.00	777.00	----		
		1 - 12.5GHz	nW	1.1143	1.0940	≤20 nW	PASS	
			dBm/MHz	-59.53	-59.61	----		
			MHz	2519.00	2518.00	----		
Interference Prevention Function		----	Good			PASS		

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BLE 125k

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES	
Channel Number		Ch.	0	39	----	----		
Reading Frequency		MHz	2401.981	2479.981	----	----		
Frequency Tolerance		ppm	-7.91007	-7.66129	-50≤x≤+50	PASS		
Occupied Bandwidth		MHz	1.0798	1.0853	≤26 MHz	PASS		
RF Output Power		mW	4.212	4.452	≤10 mW	PASS		
		dBm	6.245	6.486	----			
RF Output Power Tolerance		%	-5.39	0.00	≤20	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.053951	0.095280	≤2.5uW/MHz	PASS		
		dBm/MHz	-42.68	-40.21	----			
		MHz	2306.40	2368.30	----			
	2387-2400MHz	μW/MHz	4.623810	0.076208	≤25uW/MHz	PASS		
		dBm/MHz	-23.35	-41.18	----			
		MHz	2400.00	2399.67	----			
	2483.5-2496.5MHz	μW/MHz	0.034834	0.263633	≤25uW/MHz	PASS		
		dBm/MHz	-44.58	-35.79	----			
		MHz	2491.15	2483.51	----			
	2496.5 - 12.5GHz	μW/MHz	0.363078	0.122462	≤2.5uW/MHz	PASS		
		dBm/MHz	-34.40	-39.12	----			
		MHz	4804.50	4960.50	----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW	0.0063	0.0051	≤4 nW	PASS	
			dBm/100kHz	-81.98	-82.96	----		
			MHz	777.10	777.10	----		
		1 - 12.5GHz	nW	0.4335	0.4645	≤20 nW	PASS	
			dBm/MHz	-63.63	-63.33	----		
MHz	2510.00		4958.00	----				
Interference Prevention Function		----	Good			PASS		

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BLE 500k

Measurement Frequency		MHz	2402	2480	Limit	Result	NOTES	
Channel Number		Ch.	0	39	----	----		
Reading Frequency		MHz	2401.981	2479.981	----	----		
Frequency Tolerance		ppm	-7.91007	-7.66129	-50≤x≤+50	PASS		
Occupied Bandwidth		MHz	1.0420	1.0454	≤26 MHz	PASS		
RF Output Power		mW	4.135	4.391	≤10 mW	PASS		
		dBm	6.165	6.425	----			
RF Output Power Tolerance		%	-5.83	0.01	≤20	PASS		
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.084140	0.103514	≤2.5uW/MHz	PASS		
		dBm/MHz	-40.75	-39.85	----			
		MHz	2290.00	2368.10	----			
	2387-2400MHz	μW/MHz	5.116818	0.067298	≤25uW/MHz	PASS		
		dBm/MHz	-22.91	-41.72	----			
		MHz	2399.96	2399.49	----			
	2483.5-2496.5MHz	μW/MHz	0.059566	0.282488	≤25uW/MHz	PASS		
		dBm/MHz	-42.25	-35.49	----			
		MHz	2490.98	2483.52	----			
	2496.5 - 12.5GHz	μW/MHz	0.352371	0.125314	≤2.5uW/MHz	PASS		
		dBm/MHz	-34.53	-39.02	----			
		MHz	4803.50	4959.50	----			
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)		Under 1GHz	nW	0.0054	0.0037	≤4 nW	PASS	
			dBm/100kHz	-82.65	-84.37	----		
			MHz	777.10	774.70	----		
		1 - 12.5GHz	nW	0.5546	0.4315	≤20 nW	PASS	
			dBm/MHz	-62.56	-63.65	----		
			MHz	2502.00	4958.00	----		
Interference Prevention Function		----	Good			PASS		

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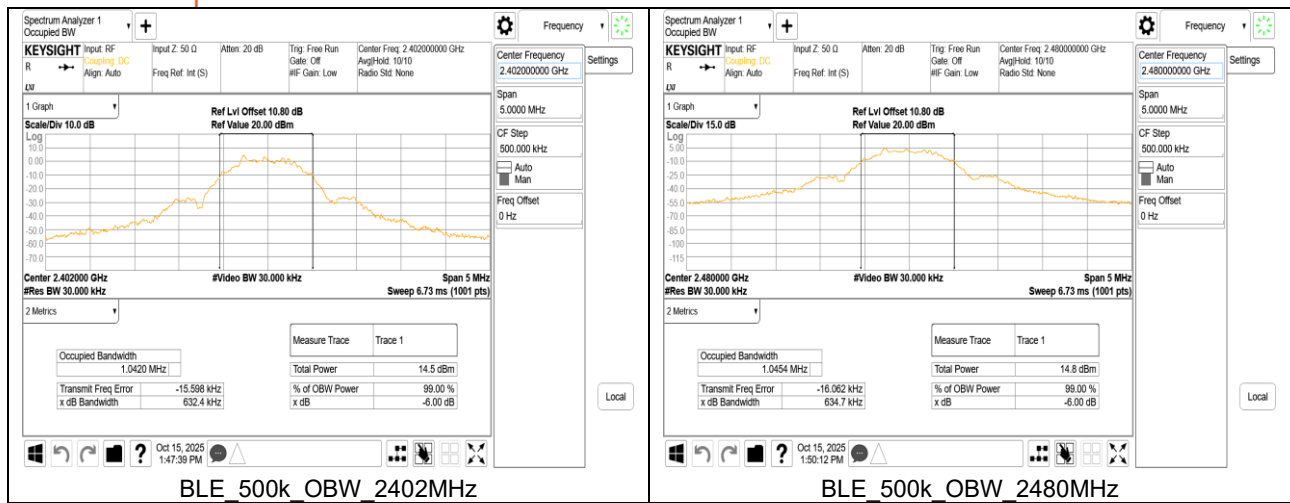
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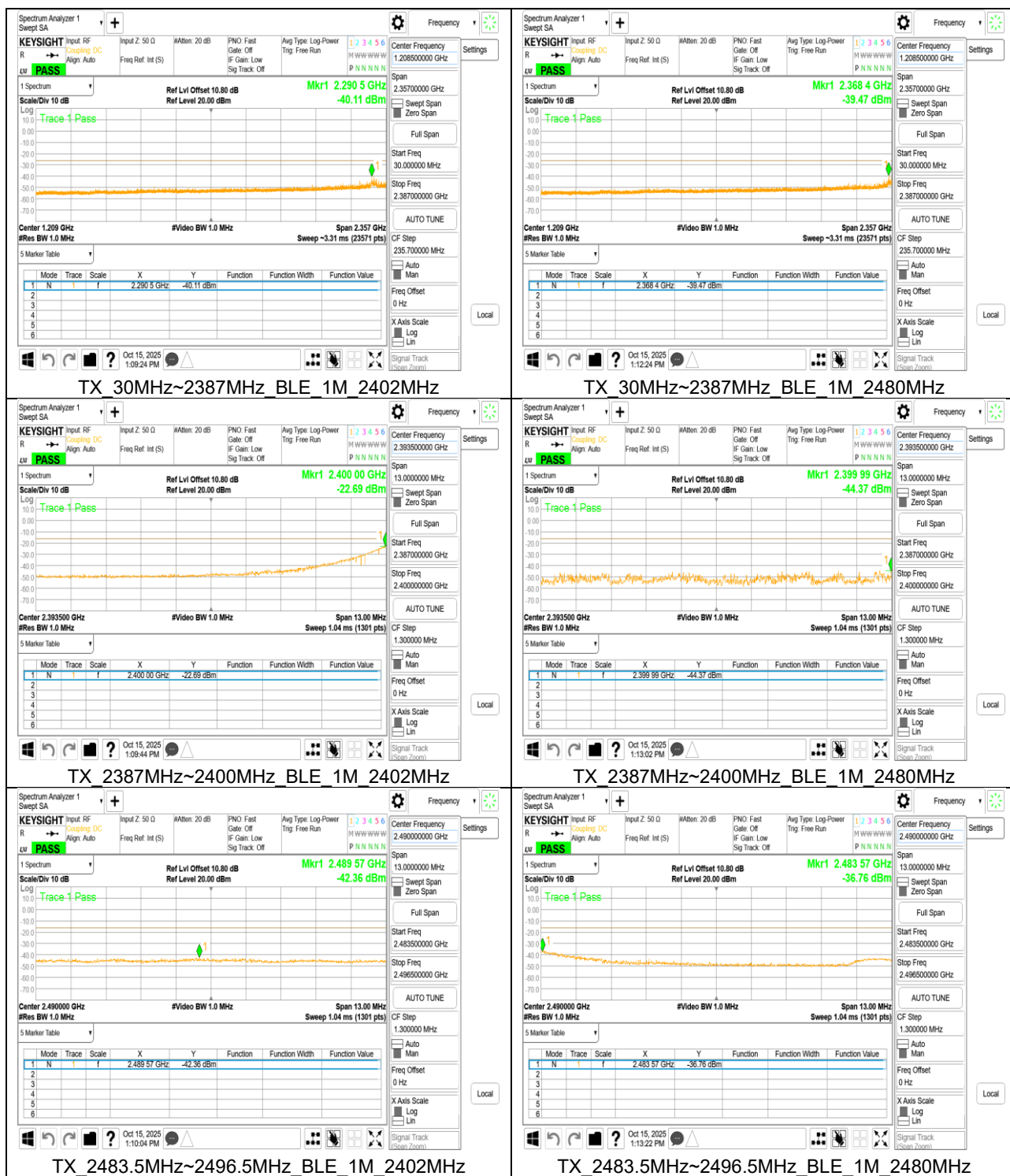
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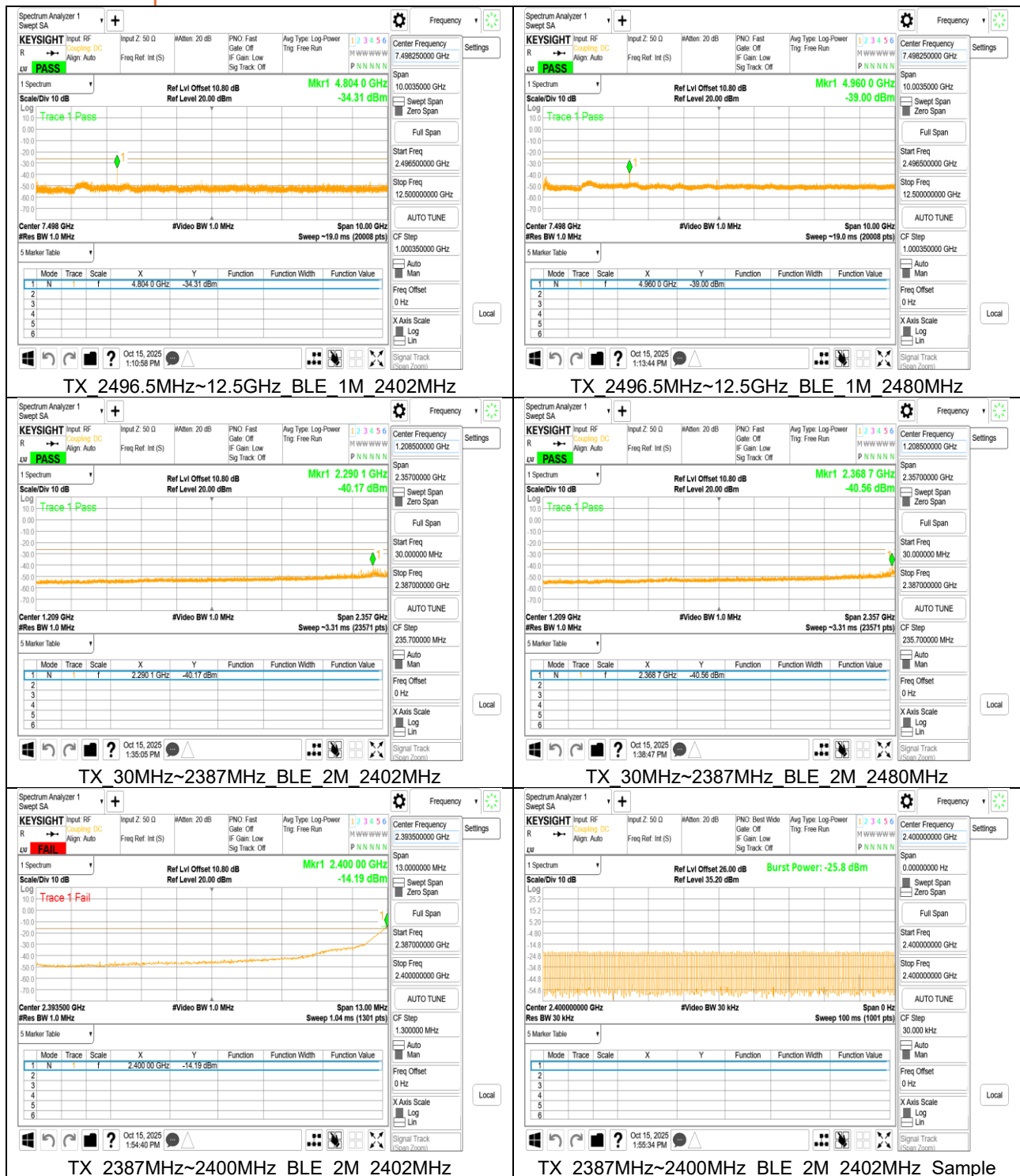
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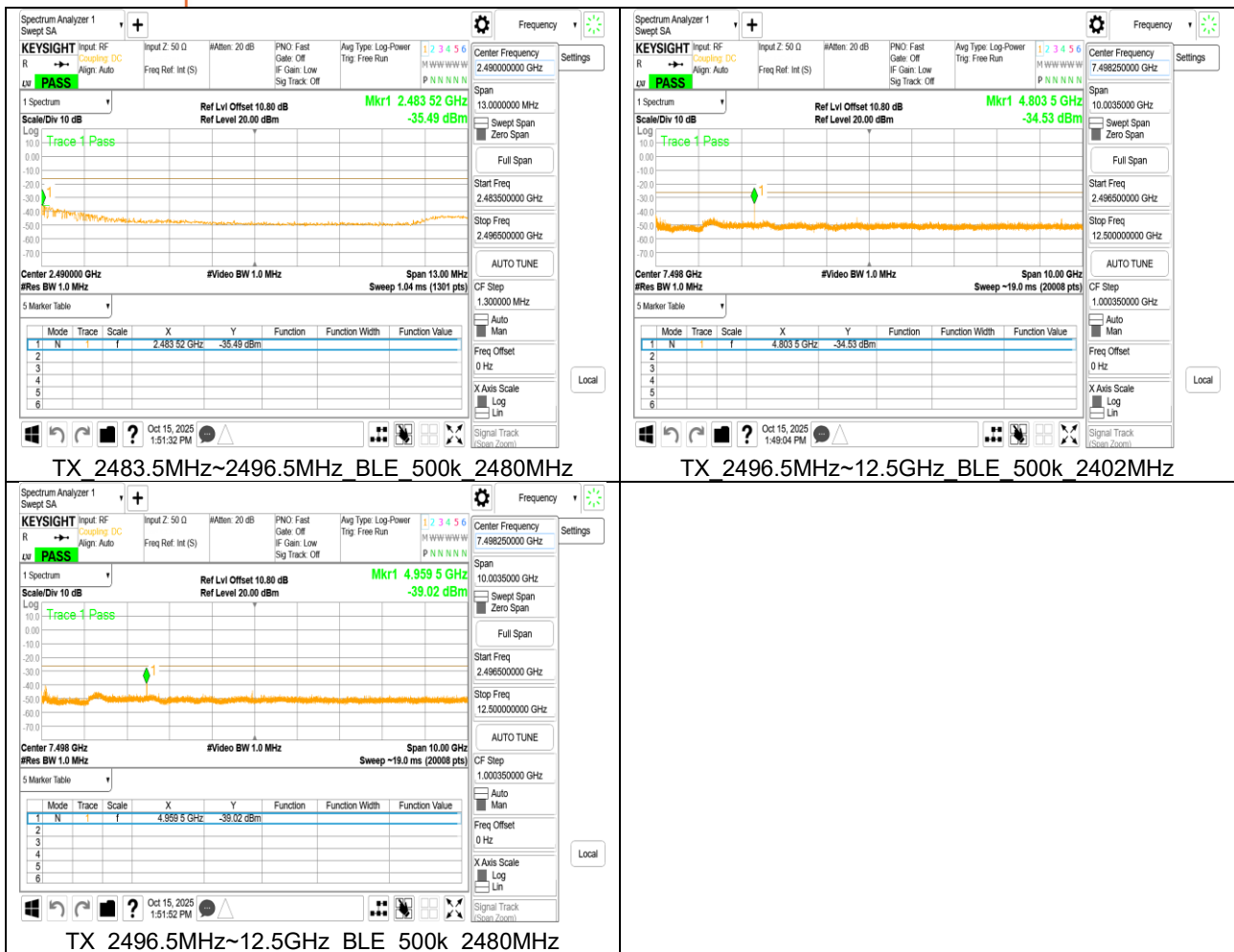
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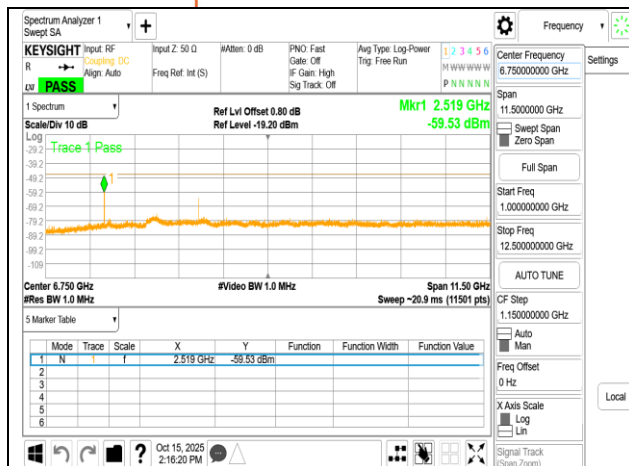
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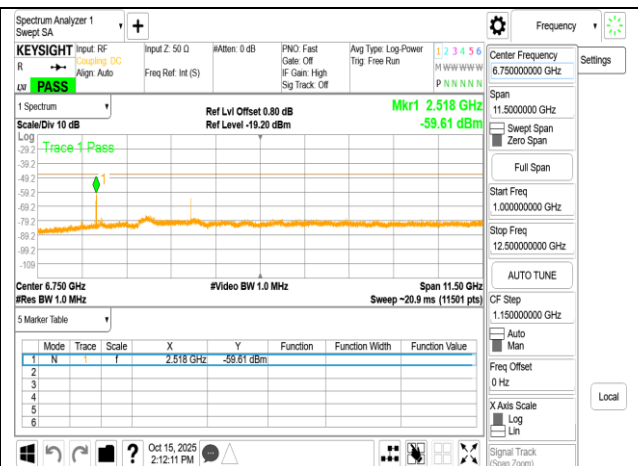
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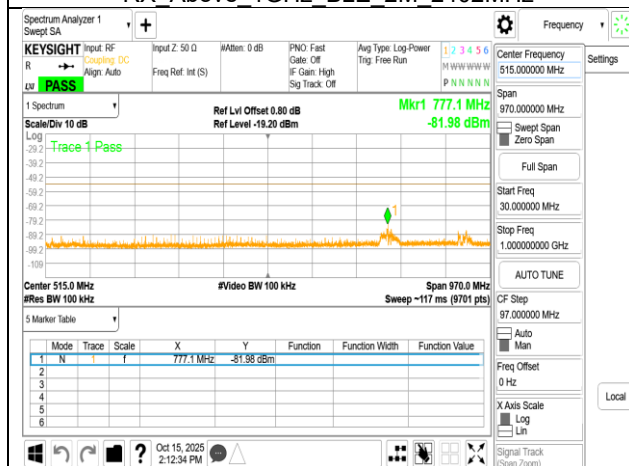
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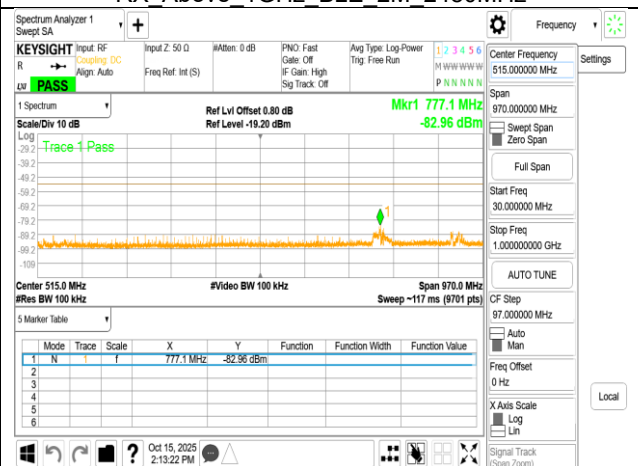
RX Above 1GHz BLE 2M 2402MHz



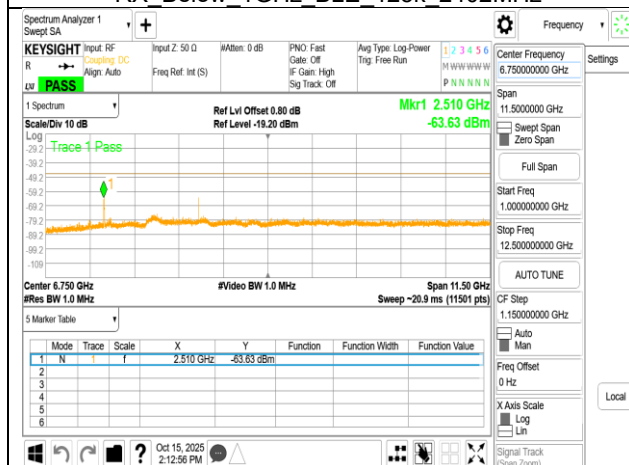
RX Above 1GHz BLE 2M 2480MHz



RX Below 1GHz BLE 125k 2402MHz



RX Below 1GHz BLE 125k 2480MHz



RX Above 1GHz BLE 125k 2402MHz



RX Above 1GHz BLE 125k 2480MHz

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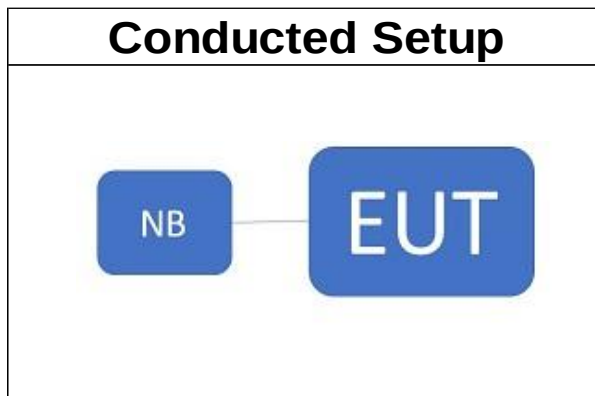
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6 TEST SET UP

6.1 Setup Diagram



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