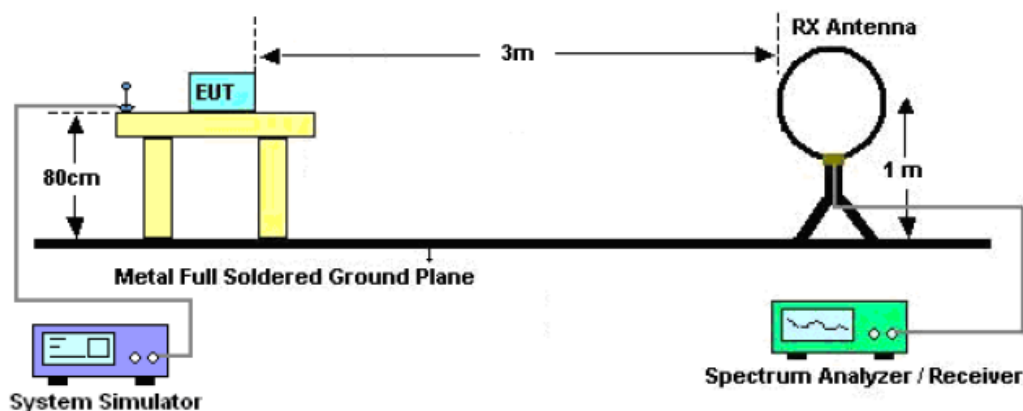
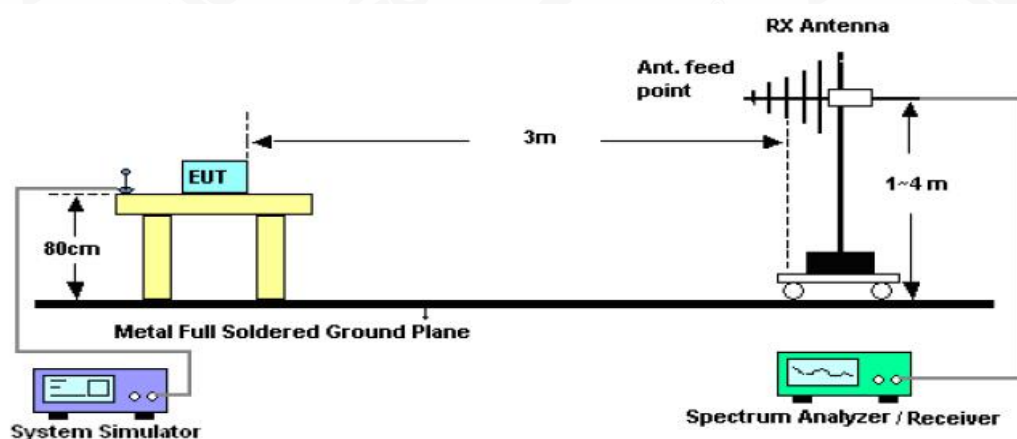


## 10.2. TEST SETUP

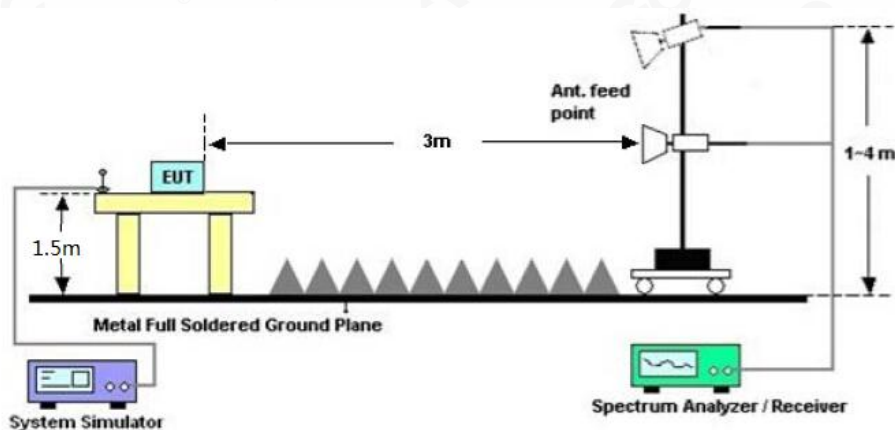
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 10.4. TEST RESULT

#### Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

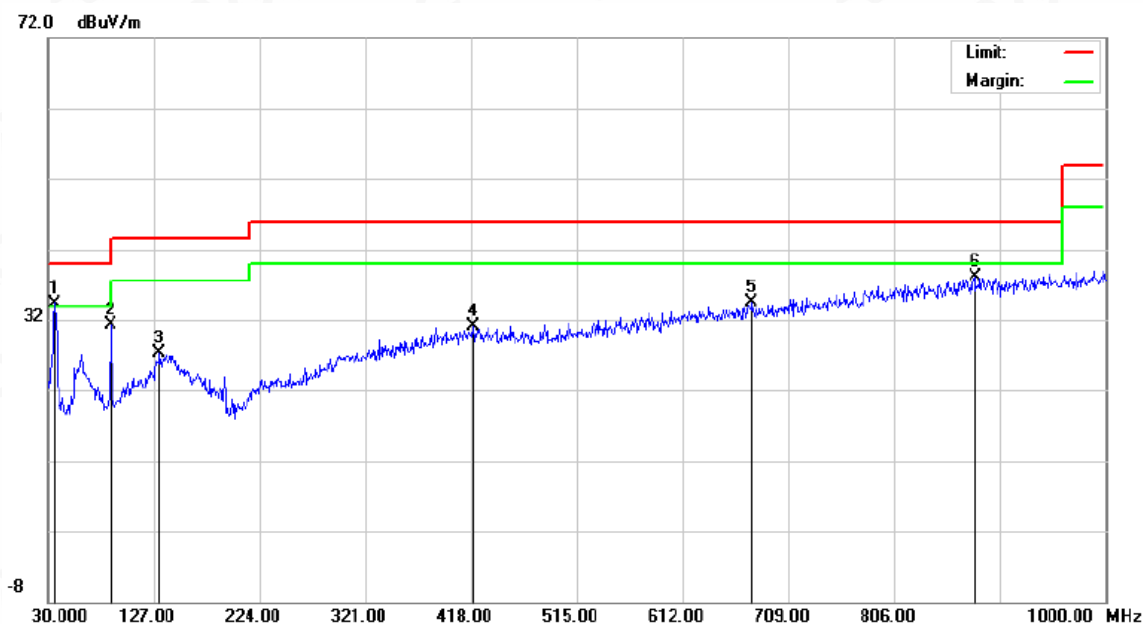
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### Radiated emission from 30MHz to 1000MHz

EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.8200	21.63	12.77	34.40	40.00	-5.60	peak
2		88.1000	16.31	14.97	31.28	40.00	-8.72	peak
3		131.8499	7.32	19.90	27.22	43.50	-16.28	peak
4		419.9399	6.07	24.98	31.05	46.00	-14.95	peak
5		675.0498	6.61	27.85	34.46	46.00	-11.54	peak
6		879.7200	6.71	31.44	38.15	46.00	-7.85	peak

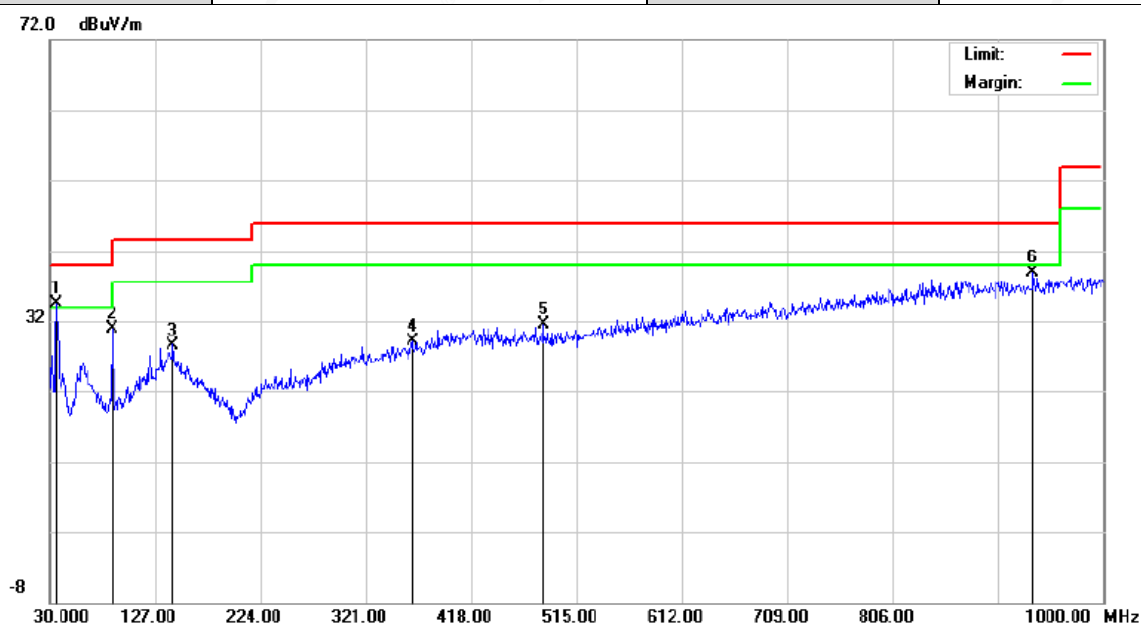
**RESULT: PASS**

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EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.8200	21.72	12.77	34.49	40.00	-5.51	peak
2		88.1000	15.93	14.97	30.90	40.00	-9.10	peak
3		143.4900	7.73	20.87	28.60	43.50	-14.90	peak
4		363.6800	5.33	23.71	29.04	46.00	-16.96	peak
5		483.9599	6.60	24.99	31.59	46.00	-14.41	peak
6		935.0099	6.92	32.00	38.92	46.00	-7.08	peak

## RESULT: PASS

**Note:** 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

2. All test modes had been pre-tested. The mode 5 is the worst case and recorded in the report.

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### Radiated emission above 1GHz

<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	44.96	0.08	45.04	74	-28.96	peak
4804.000	37.35	0.08	37.43	54	-16.57	AVG
7206.000	40.48	2.21	42.69	74	-31.31	peak
7206.000	32.71	2.21	34.92	54	-19.08	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 4	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	43.87	0.08	43.95	74	-30.05	peak
4804.000	36.53	0.08	36.61	54	-17.39	AVG
7206.000	40.32	2.21	42.53	74	-31.47	peak
7206.000	31.41	2.21	33.62	54	-20.38	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	45.51	0.14	45.65	74	-28.35	peak
4882.000	38.48	0.14	38.62	54	-15.38	AVG
7323.000	41.36	2.36	43.72	74	-30.28	peak
7323.000	34.29	2.36	36.65	54	-17.35	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 5	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	45.47	0.14	45.61	74	-28.39	peak
4882.000	37.26	0.14	37.4	54	-16.6	AVG
7323.000	40.53	2.36	42.89	74	-31.11	peak
7323.000	33.16	2.36	35.52	54	-18.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.84	0.22	47.06	74	-26.94	peak
4960.000	38.69	0.22	38.91	54	-15.09	AVG
7440.000	41.52	2.64	44.16	74	-29.84	peak
7440.000	32.32	2.64	34.96	54	-19.04	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	wireless hands free car kit	<b>Model Name</b>	BTFMPD3SR
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	Mode 6	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.79	0.22	47.01	74	-26.99	peak
4960.000	38.65	0.22	38.87	54	-15.13	AVG
7440.000	40.32	2.64	42.96	74	-31.04	peak
7440.000	31.51	2.64	34.15	54	-19.85	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## RESULT: PASS

### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been tested. The π /4-DQPSK modulation is the worst case and recorded in the report.

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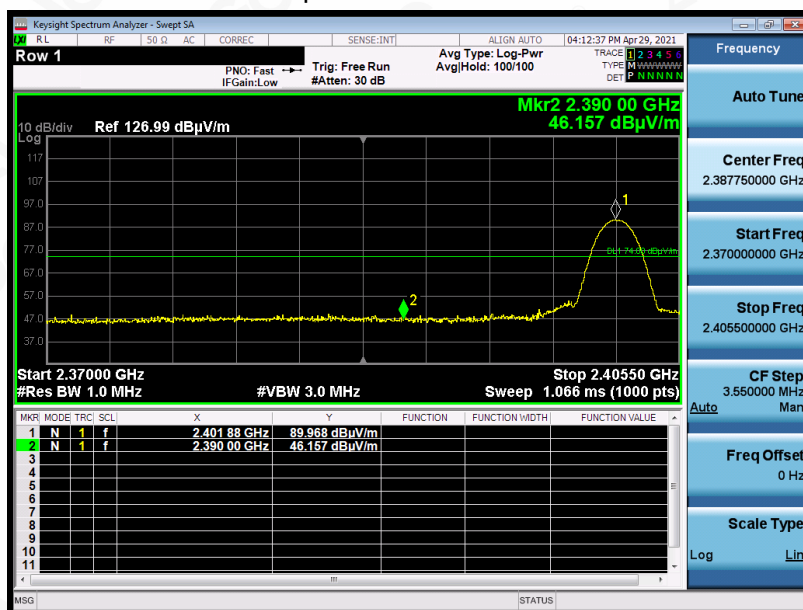
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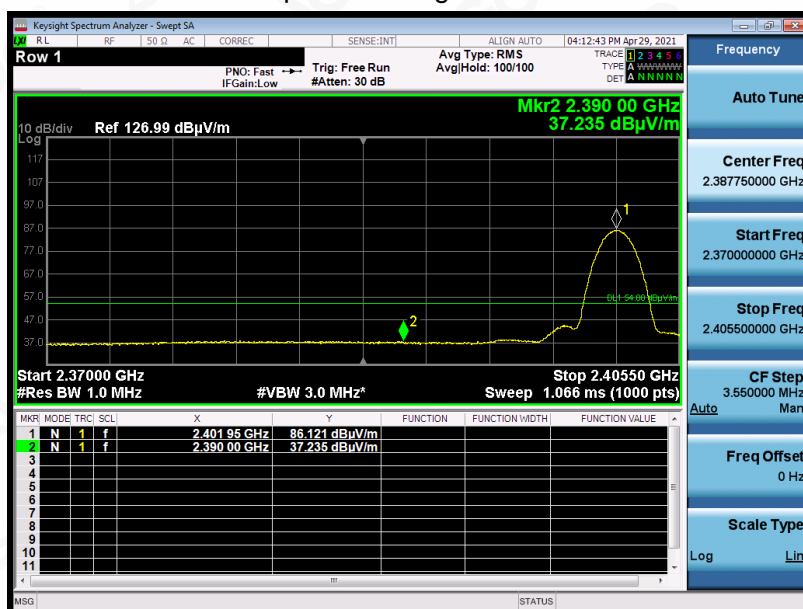
### Test result for band edge emission at restricted bands

EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

### Test Graph for Peak Measurement



### Test Graph for Average Measurement



**RESULT: PASS**

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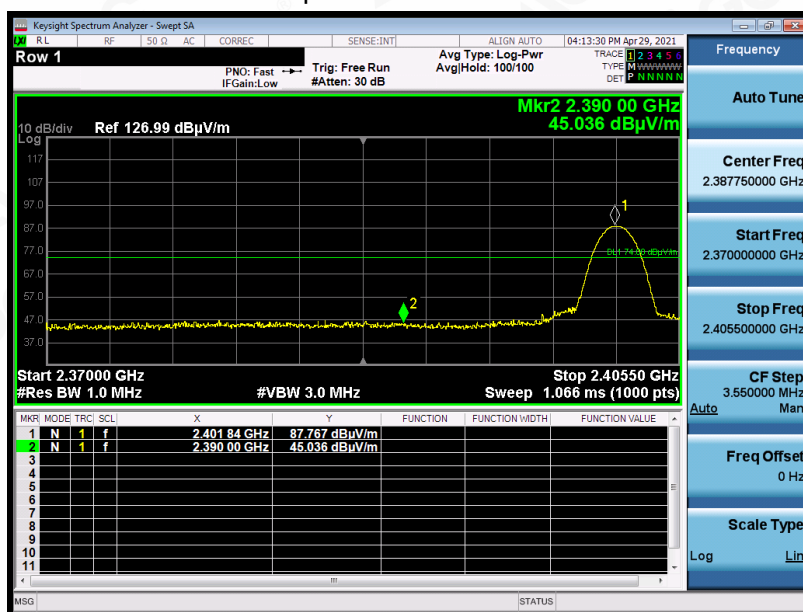
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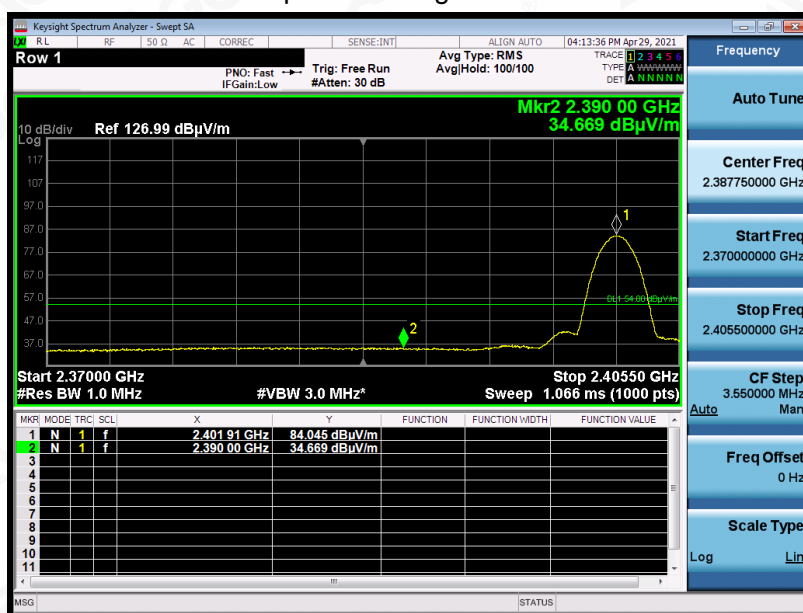


EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

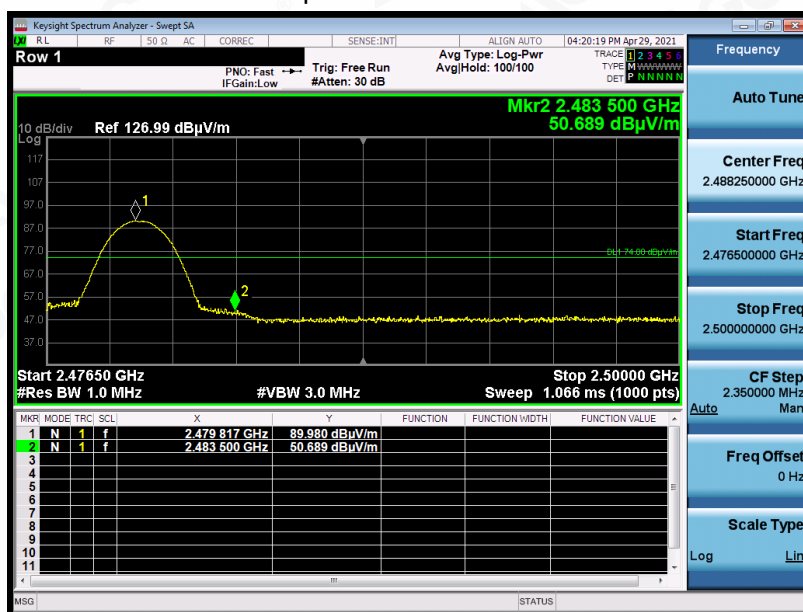
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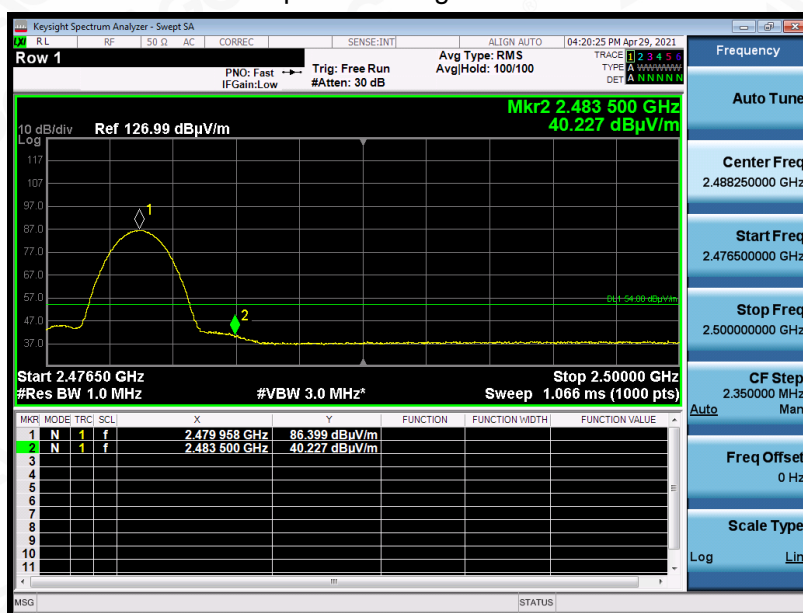


EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

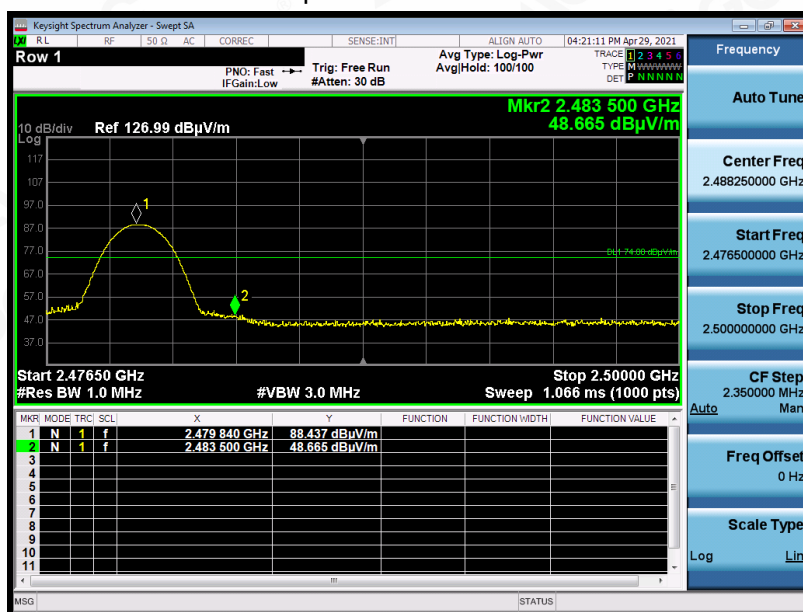
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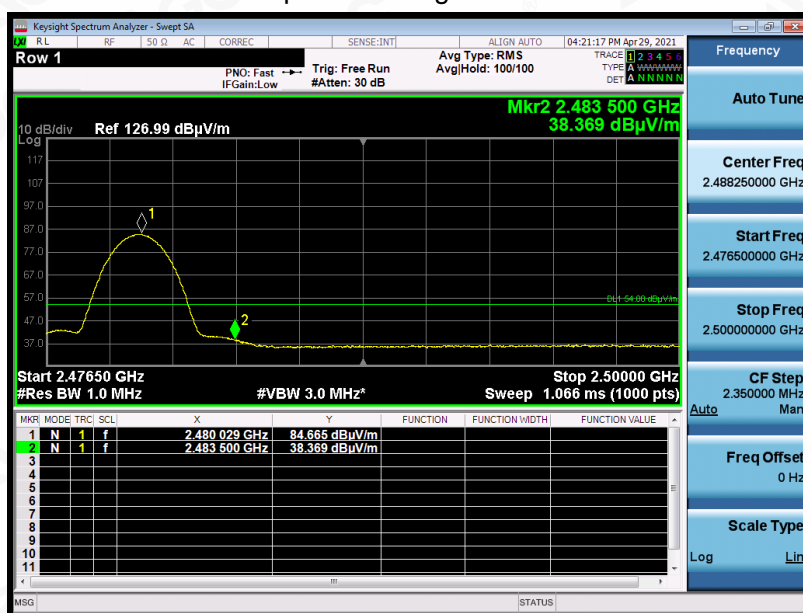


EUT	wireless hands free car kit	Model Name	BTFMPD3SR
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



## RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The  $\pi/4$ -DQPSK modulation is the worst case and recorded in the report.

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## 11. NUMBER OF HOPPING FREQUENCY

### 11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
3. VBW  $\geq$  RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
4. Allow the trace to stabilize.

### 11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

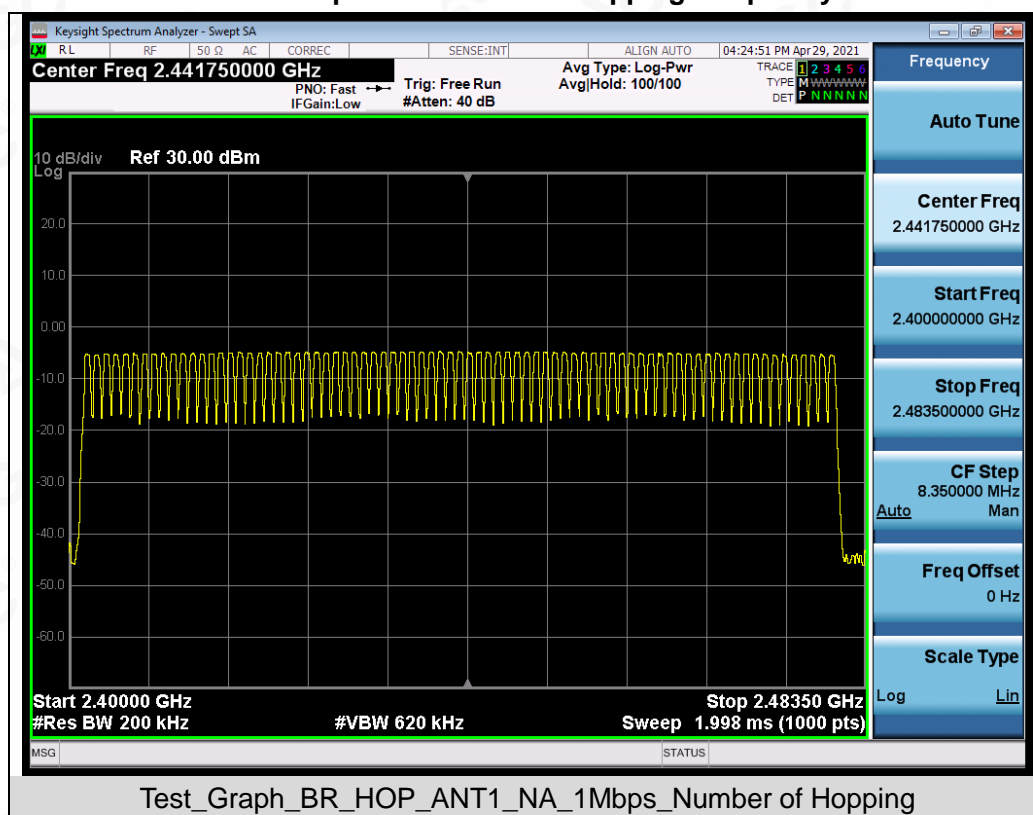
### 11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

### 11.4. LIMITS AND MEASUREMENT RESULT

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
GFSK Hopping	79	$\geq 15$	Pass

### Test Graphs of Number of Hopping Frequency



Note: The GFSK modulation is the worst case and recorded in the report.

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## 12. TIME OF OCCUPANCY (DWELL TIME)

### 12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.
2. RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1/T$ , where T is the expected dwell time per channel.
3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
4. Detector function: Peak. Trace: Max hold.
5. Use the marker-delta function to determine the transmit time per hop.
6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:  

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$
7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

### 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

### 12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

### 12.4. LIMITS AND MEASUREMENT RESULT

Test Data of Dwell Time					
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)	Pass or Fail
2402	2.878	30*4	345.360	400	Pass
2441	2.878	31*4	356.872	400	Pass
2480	2.878	33*4	379.896	400	Pass

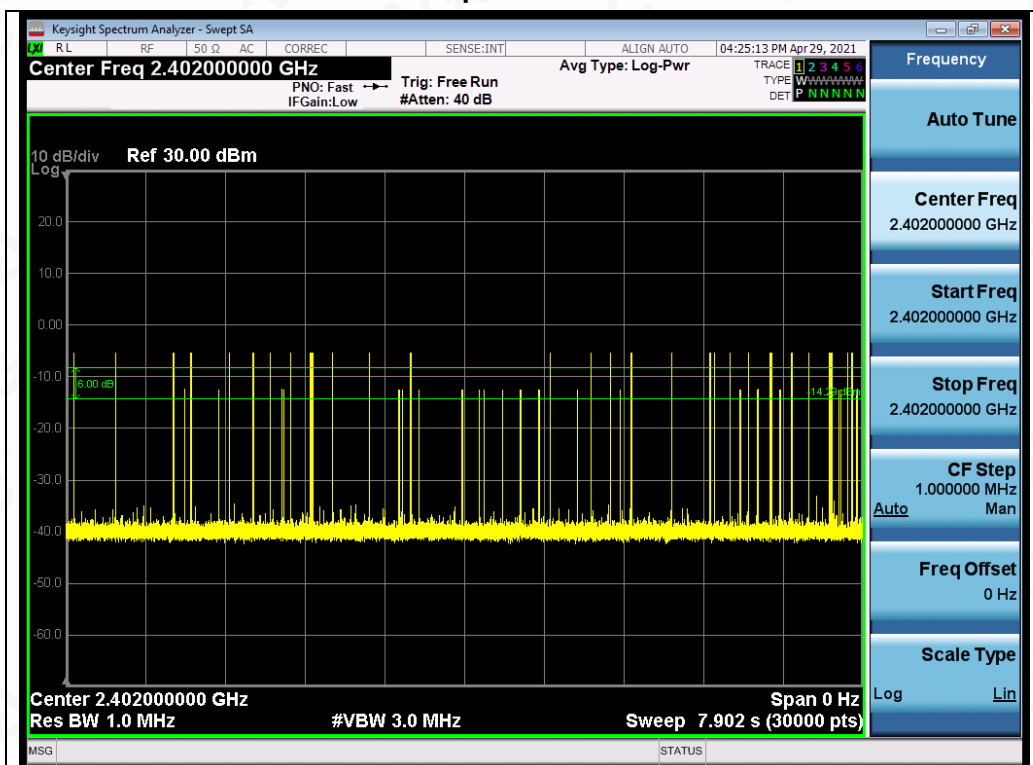
Note: The GFSK modulation is the worst case and recorded in the report.

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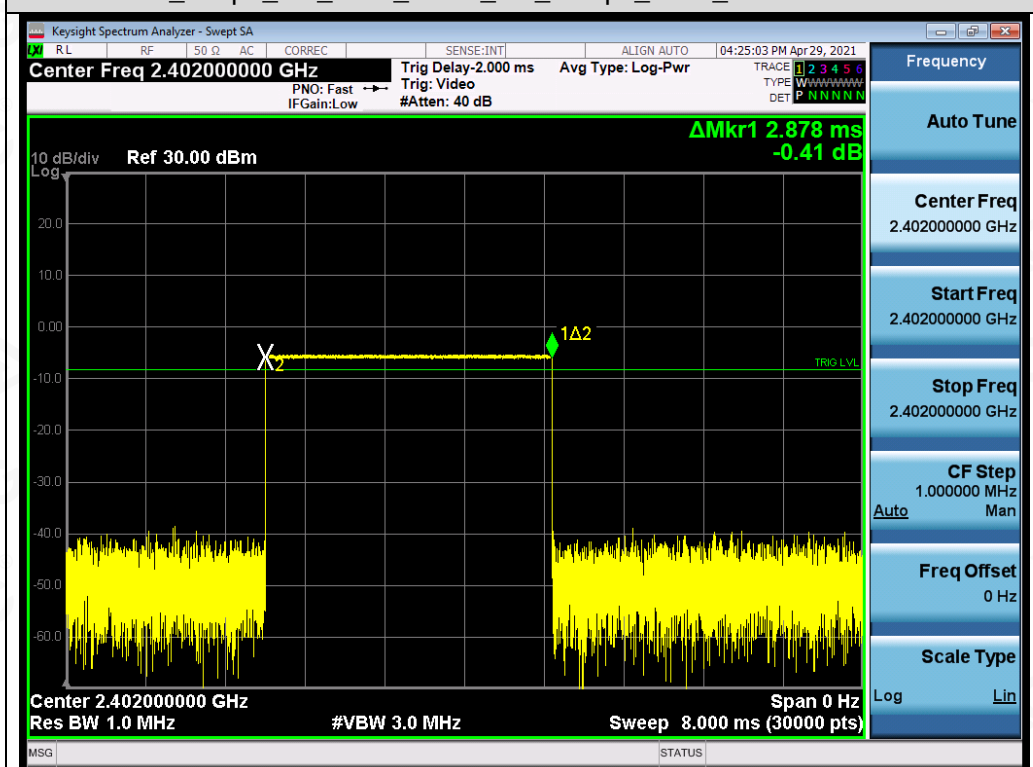
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### Test Graphs of Dwell Time



Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_2402\_Number of Burst

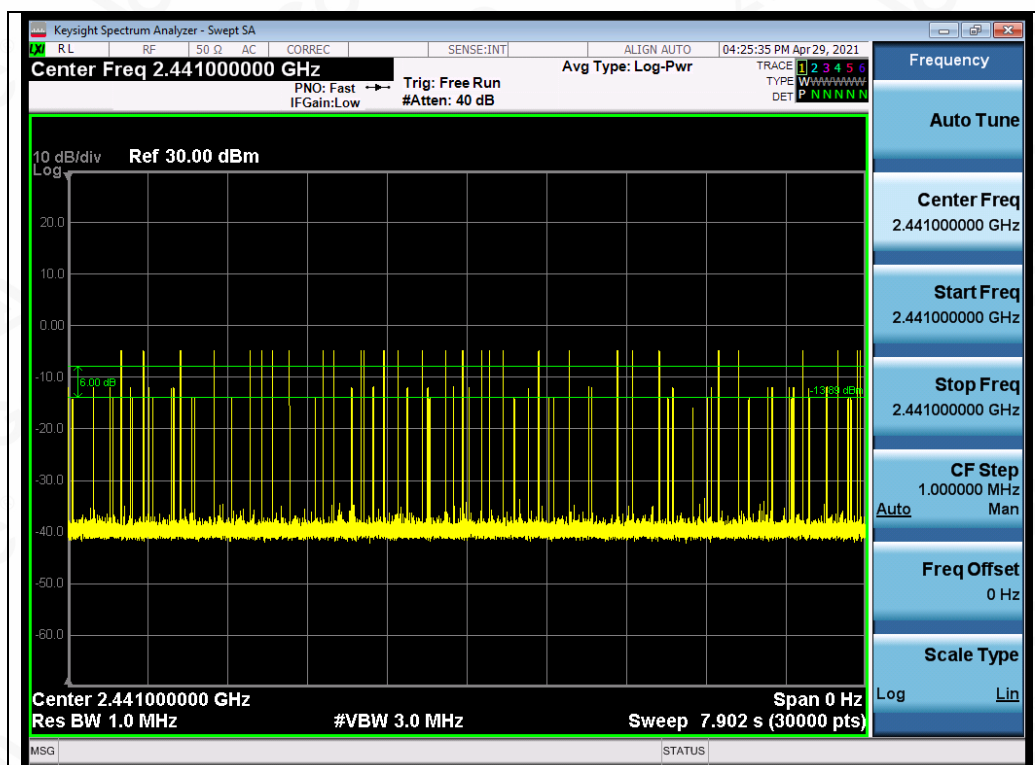


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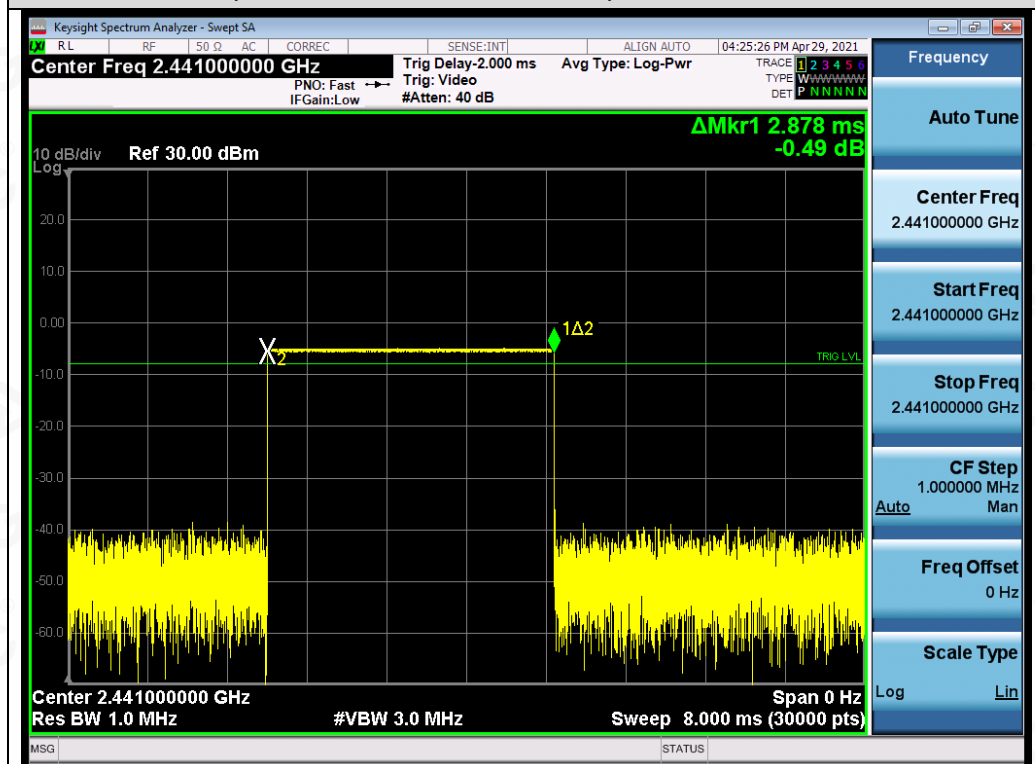
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Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_2441\_Number of Burst

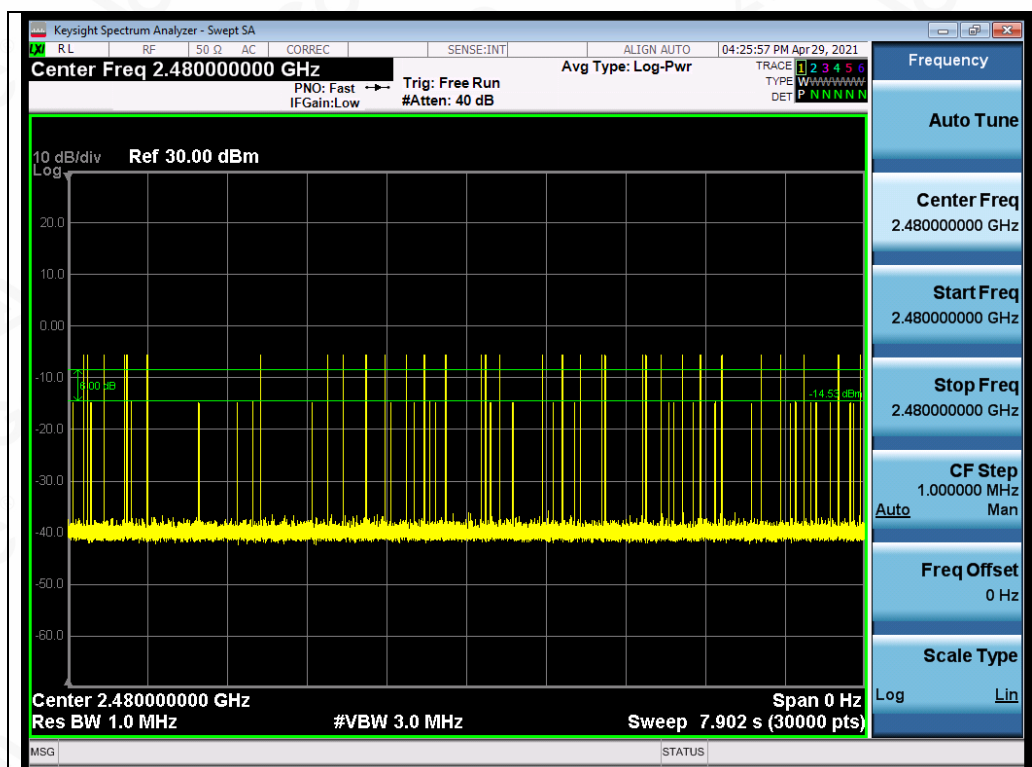


Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_2441\_Time per Burst

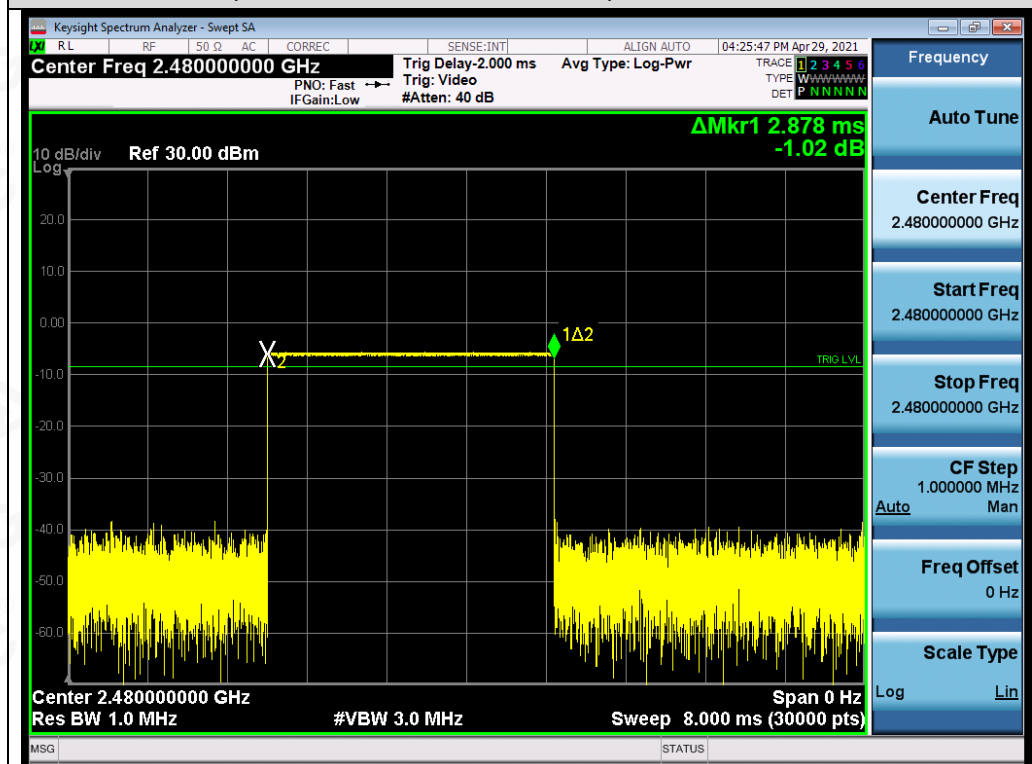
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Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_2480\_Number of Busrt



Test\_Graph\_BR\_HOP\_ANT1\_NA\_1Mbps\_2480\_Time per Burst

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### 13. FREQUENCY SEPARATION

#### 13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.
2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. Video (or average) bandwidth (VBW)  $\geq$  RBW.
4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

#### 13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

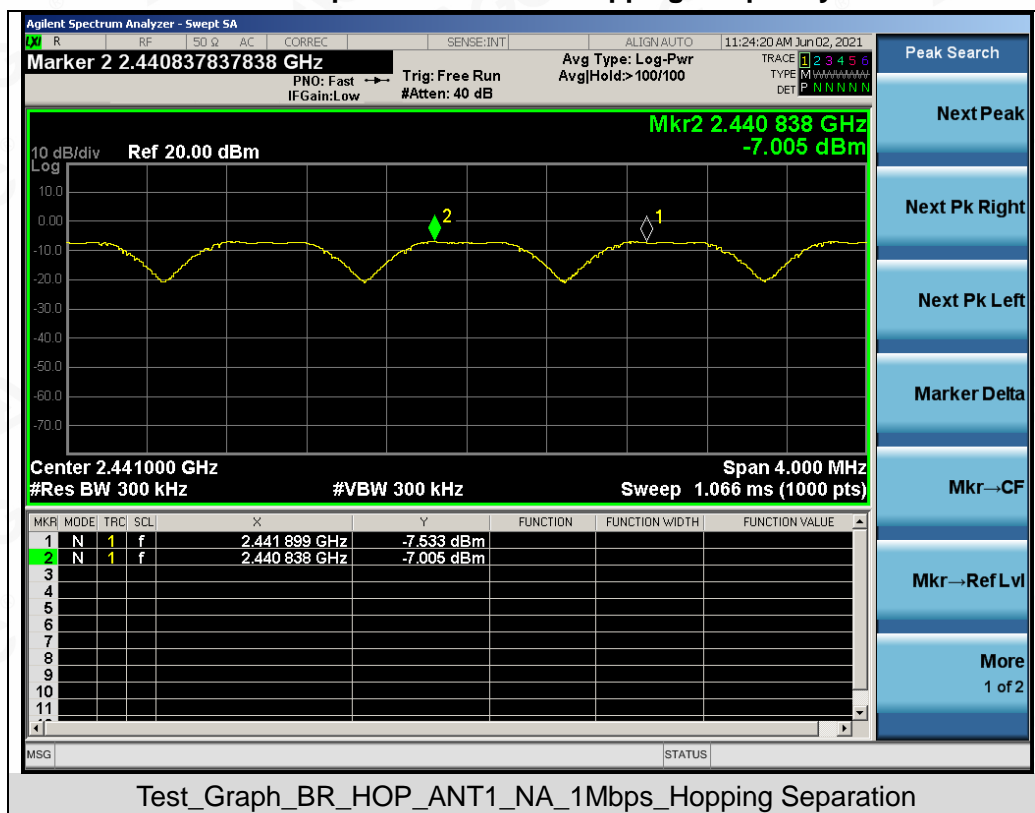
#### 13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

#### 13.4. LIMITS AND MEASUREMENT RESULT

Test Data of Frequency Separation			
Test Mode	Channel Separation (MHz)	Limits	Pass or Fail
GFSK Hopping	1.061	$\geq 2/3$ -20dB BW	Pass

Test Graphs of Number of Hopping Frequency



Note: The GFSK modulation is the worst case and recorded in the report.

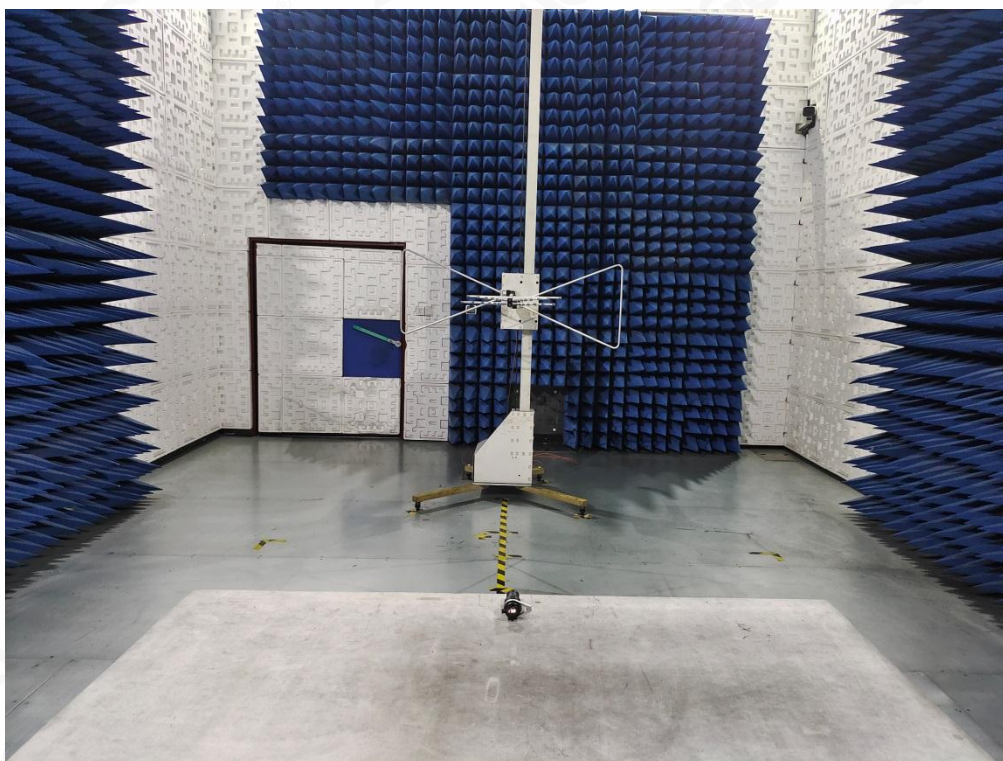
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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### RADIATED EMISSION TEST SETUP BELOW 1GHz



### RADIATED EMISSION TEST SETUP ABOVE 1GHz



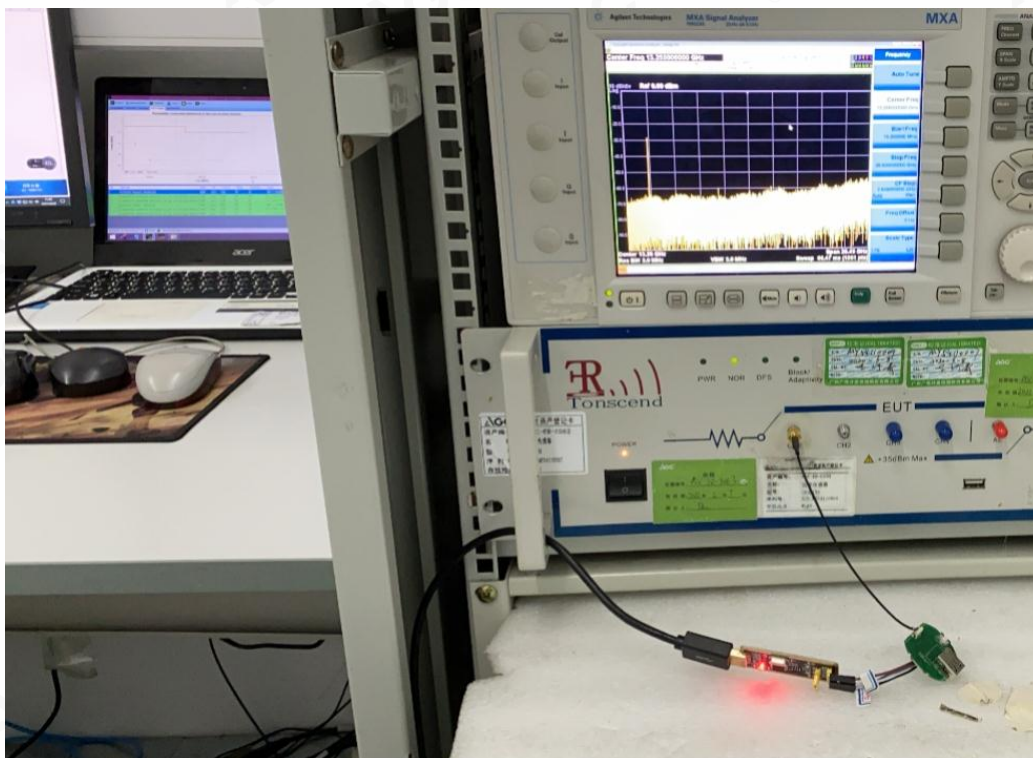
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### CONDUCTED TEST SETUP



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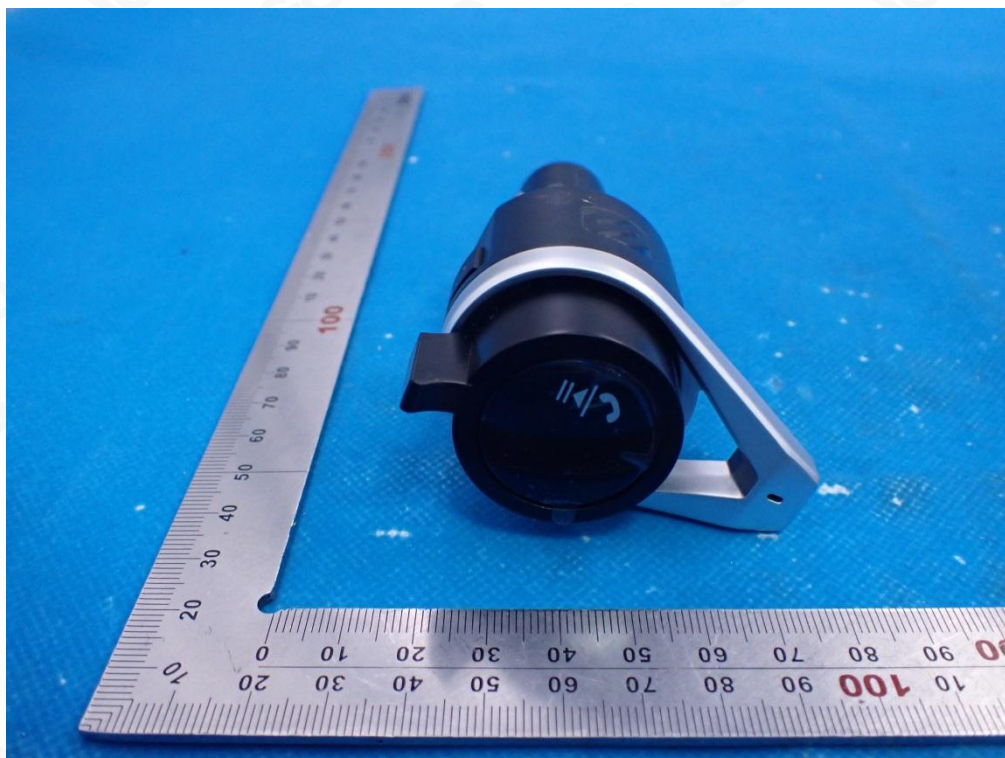


## APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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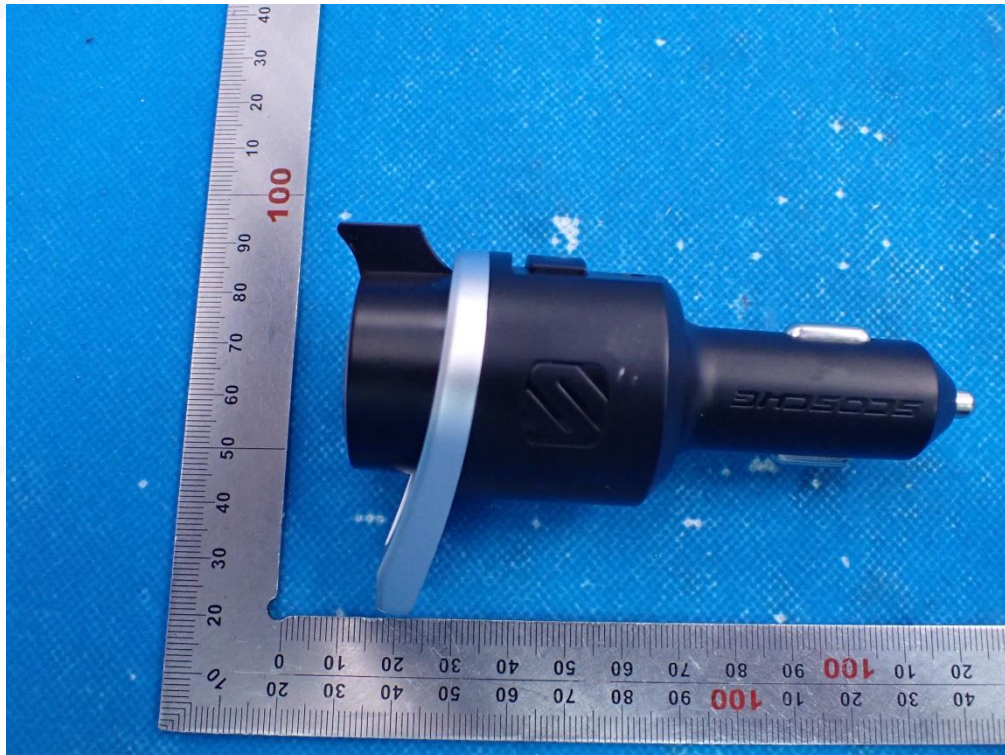




FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT(PORT)-1



VIEW OF EUT(PORT)-2



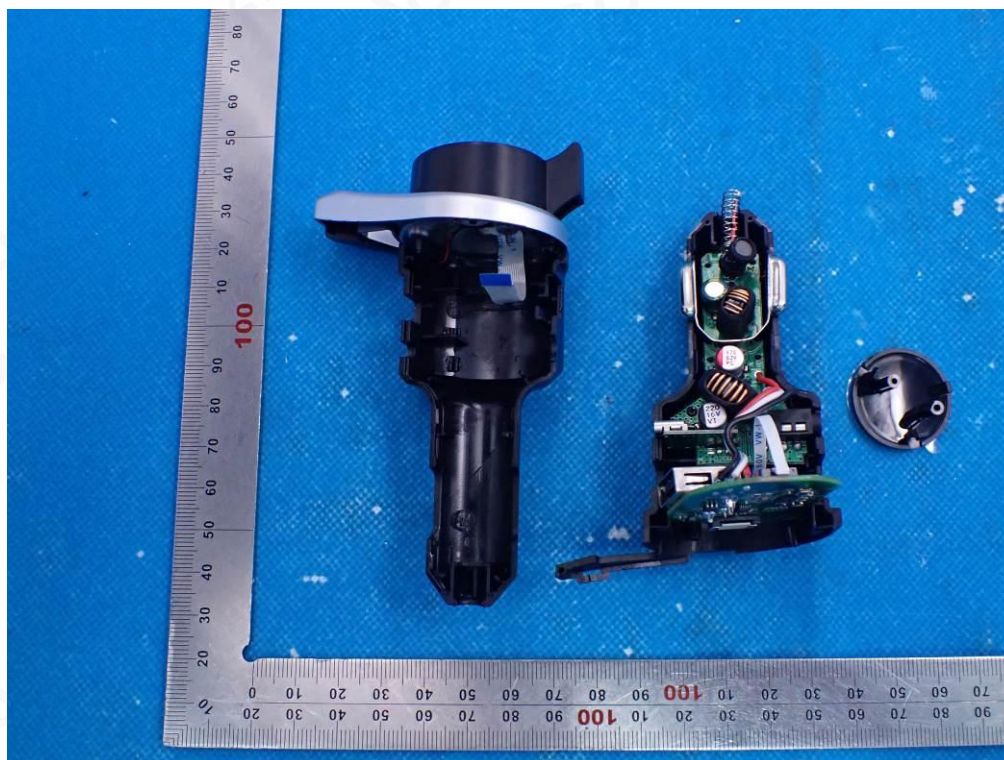
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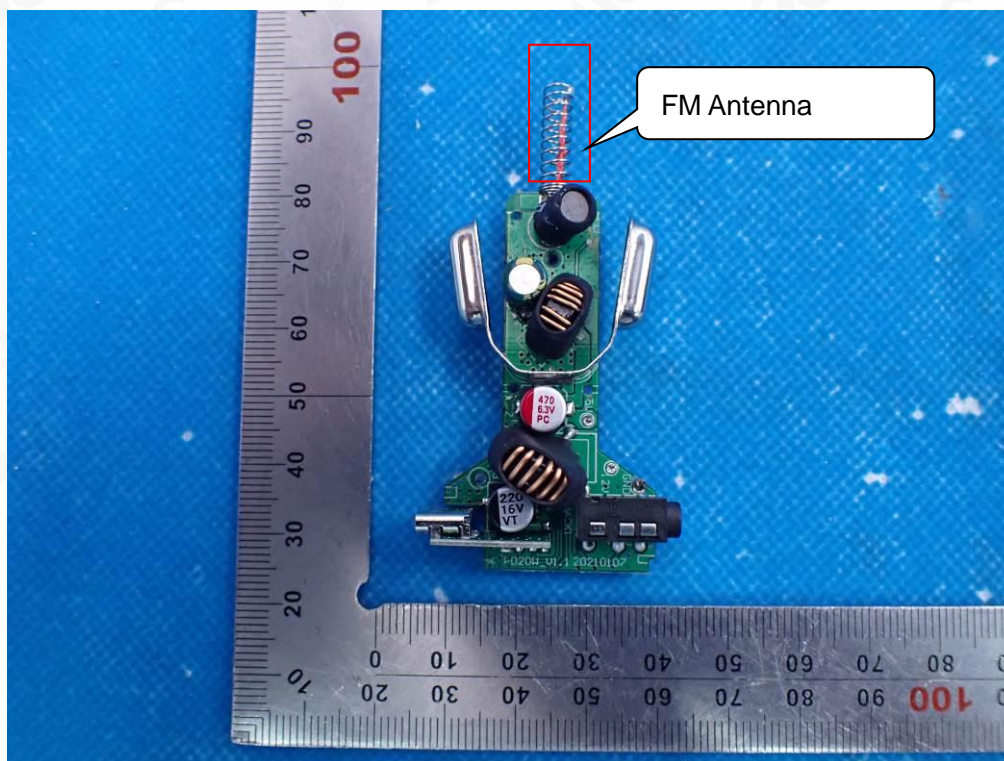




# OPEN VIEW OF EUT



# INTERNAL VIEW OF EUT-1



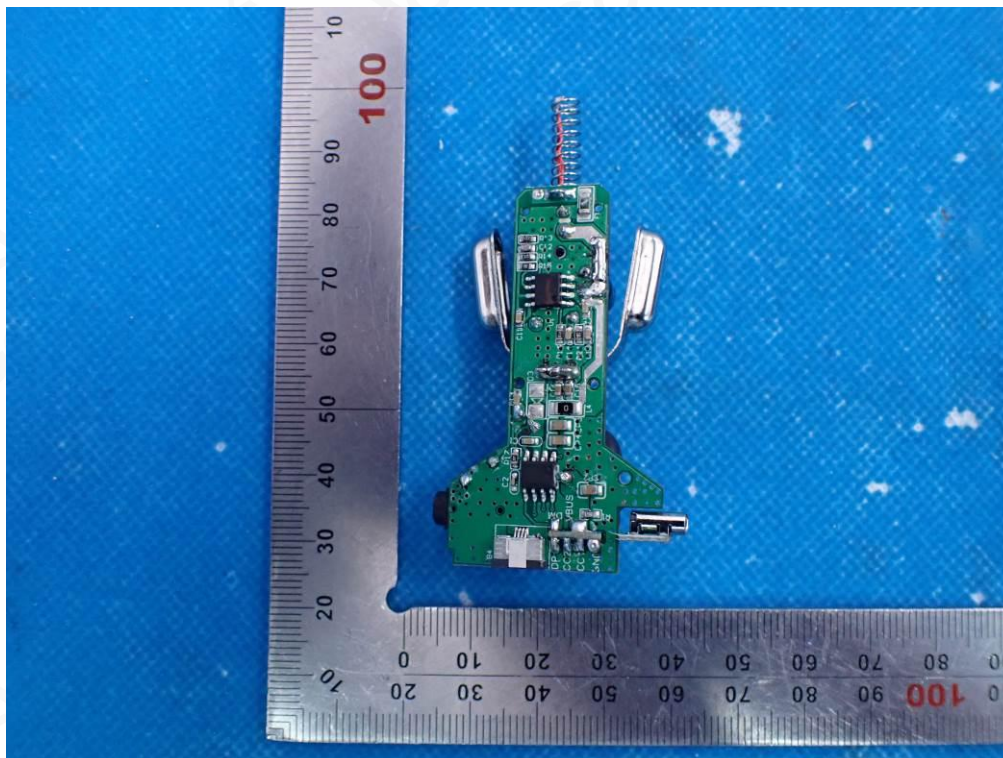
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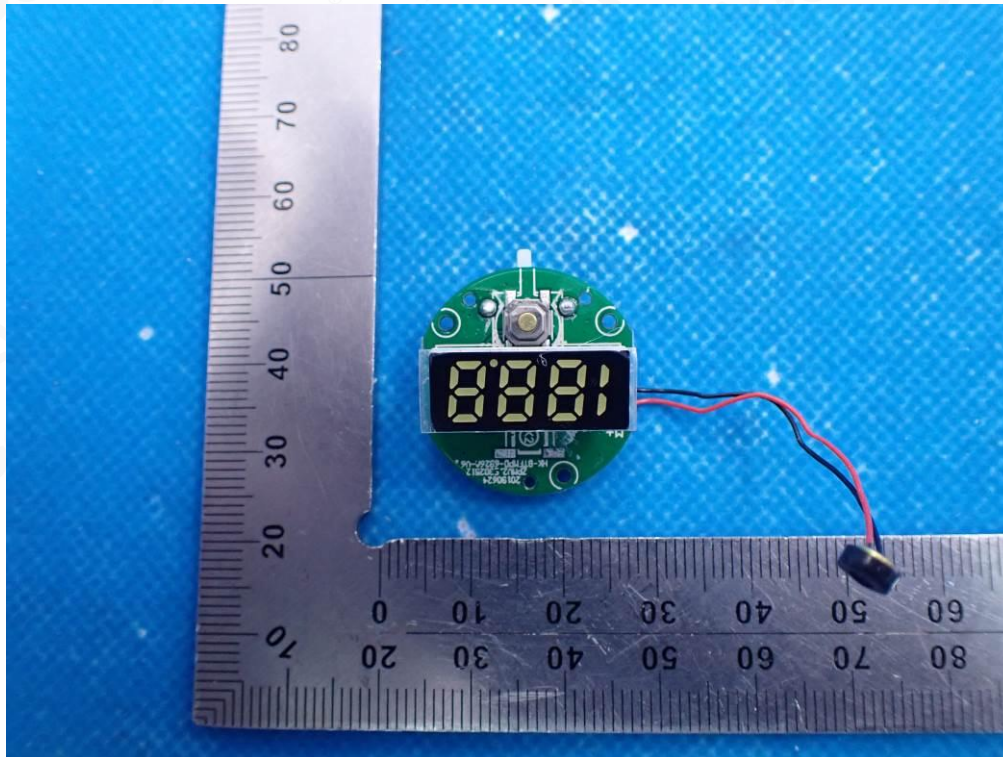




INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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