



Test Report

Date : 2026-06-24

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No. : HMD26040004

Applicant : Kanto Living Inc.
9136 196A Street, Langley, BC, V1M 3B4, Canada

Supplier / Manufacturer : Guangdong Leetac Electronics Technology Co., Ltd.
No. 15 Danli Road, South District, Zhongshan, Guangdong, China.

Description of Sample(s) : Submitted sample(s) said to be
Product: Obi3G2 Turntable
Brand Name: KANTO
Model No.: Obi3 G2
FCC ID: QKH-KANTOOBI3G2

Date Samples Received : 2026-04-07

Date Tested : 2026-04-07 to 2026-04-27

Investigation Requested : Perform Electro Magnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10:2020 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15, Subpart C. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : Bluetooth FHSS (GFSK / $\pi/4$ -DQPSK)

Test by: Susu


Dr.CHAN Kwok Hung, Brian
Authorized Signatory



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1.0 General Details

1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd.
EMC Laboratory
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong
Telephone: 852 2666 1888
Fax: 852 2664 4353

1.2 Equipment Under Test [EUT]

Description of Sample(s)

Product: Obi3G2 Turntable
Manufacturer: Guangdong Leetac Electronics Technology Co., Ltd.
No. 15 Danli Road, South District, Zhongshan, Guangdong, China.
Brand Name: KANTO
Model Number: Obi3 G2
Rating: 12.0Vd.c. by AC adapter
The AC/DC adaptor was provided by the applicant with following details:
Brand name: N/A; Model no.: MX15W-1200500UX
Input: 100-240Va.c. 50-60Hz 0.4A; Output: 12.0Vd.c. 0.5A

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is an Obi3G2 Turntable. The transmission signal is digital modulated with channel frequency range 2402-2480MHz.
The R.F. signal was modulated by IC; the type of modulation used was frequency hopping spread spectrum Modulation.

1.3 Date of Order

2026-04-01

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2026-04-07 to 2026-04-27

1.6 Country of Origin

China

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1.7 RF Module Details

Module Model Number: N/A
Module FCC ID: N/A
RF chip: AC6956C
Module Transmission Type: Bluetooth V5.3 EDR
Modulation: FHSS (GFSK / $\pi/4$ -DQPSK)
Data Rates:
1Mbps: GFSK
2 Mbps: $\pi/4$ -DQPSK
Frequency Range: 2400-2483.5MHz
Carrier Frequencies: 2402MHz – 2480MHz

Module/chip Specification (specification provided by manufacturer)

1.8 Antenna Details

Antenna Type: PCB antenna
Antenna Gain: 0.26 dBi

1.9 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	42	2444
1	2403	43	2445
2	2404	44	2446
3	2405	45	2447
4	2406	46	2448
5	2407	47	2449
6	2408	48	2450
7	2409	...	...
8	2410	67	2469
9	2411	68	2470
...	...	69	2471
33	2435	70	2472
34	2436	71	2473
35	2437	72	2474
36	2438	73	2475
37	2439	74	2476
38	2440	75	2477
39	2441	76	2478
40	2442	77	2479
41	2443	78	2480

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10:2020 for FCC Certification.

The device was realized by test software.

The screenshot shows the FCC Assist 1.0.1.2 software interface. On the left, there is a '串口设置' (Serial Port Settings) panel with the following fields: '串 口' (COM5 (USB-SERIAL CH340)), '波特率' (115200), '数据位' (8), '校验位' (None), '停止位' (1), and '流 控' (NoFlow). Below these is a '关闭' (Close) button. To the right of this panel is a log window titled '帮助(H)' (Help) containing the text: '设备[COM5]打开成功' (Device [COM5] opened successfully), 'reply data: 04 0E 04 01 01 FC 00', 'return code: 0x0', and '配置数据发送成功!' (Configuration data sent successfully!). At the bottom of the interface, there are two buttons: 'Send configuration' and '清除日志' (Clear Log).

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2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Maximum Peak Conducted Output Power	FCC 47CFR 15.247(b)(1)	ANSI C63.10: 2020	N/A	☒	☐	☐
Radiated Spurious Emissions	FCC 47CFR 15.209, FCC 47CFR 15.205	ANSI C63.10: 2020	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2020	N/A	☒	☐	☐
Conducted Spurious Emissions	FCC 47CFR 15.247(d)	ANSI C63.10: 2020	N/A	☒	☐	☐
Number of Hopping Frequency	FCC 47CFR 15.247 (b)(1)	ANSI C63.10: 2020	N/A	☒	☐	☐
20dB Bandwidth	FCC 47CFR 15.247(a)(2)	ANSI C63.10: 2020	N/A	☒	☐	☐
Hopping Channel Separation	FCC 47CFR 15.247(a)(1)	ANSI C63.10: 2020	N/A	☒	☐	☐
Band-edge measurement (Radiated)	FCC 47CFR 15.247(d)	ANSI C63.10: 2020	N/A	☒	☐	☐
Pseudorandom Hopping Algorithm	FCC 47CFR 15.247(a)(1)	N/A	N/A	☒	☐	☐
Time of Occupancy (Dwell Time)	FCC 47CFR 15.247(a)(1)(iii)	ANSI C63.10: 2020	N/A	☒	☐	☐
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐

Note: N/A - Not Applicable



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2.3 Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate in the table below is the worst case rate with respect to the specific test item.

Investigation has been done on all the possible configurations for searching the worst cases.

The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Peak Conducted Output Power	GFSK / $\pi/4$ -DQPSK	1MBps / 2MBps
Hopping Channel Separation	GFSK / $\pi/4$ -DQPSK	1MBps / 2MBps
Number of Hopping Frequency	GFSK / $\pi/4$ -DQPSK	1MBps / 2MBp
Time of Occupancy(Dwell Time)	$\pi/4$ -DQPSK(2DH1/ 2DH3/ 2DH5)	2MBps
Radiated Spurious Emissions	GFSK / $\pi/4$ -DQPSK	1MBps / 2MBps
Band-edge compliance of Conducted Emission	GFSK / $\pi/4$ -DQPSK	1MBps / 2MBps

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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Conducted Output Power

Test Requirement:	FCC 47CFR 15.247(b) (1)
Test Method:	ANSI C63.10: 2020
Test Date:	2026-04-13
Mode of Operation:	Tx mode

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

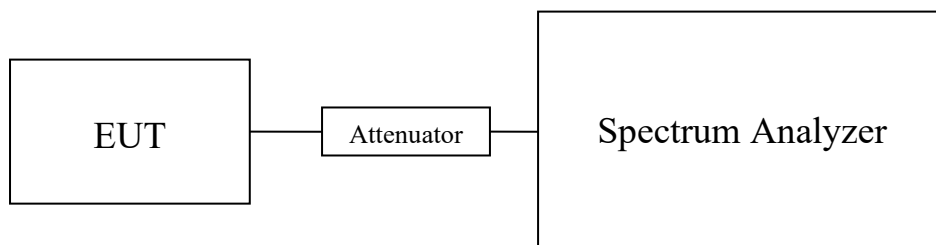
Test Method:

A temporary antenna connector was soldered to the RF output. The RF output of the EUT was connected to the spectrum analyzer. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in Watt.

Spectrum Analyzer Setting:

RBW = 3 MHz, VBW= 3MHz, Sweep = Auto, Span: Approximately five times the 20 dB bandwidth
Detector = Peak, Trace = Max. hold

Test Setup:



Note: a temporary antenna connector was soldered to the RF output.

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Limits for Maximum Peak Conducted Output Power [FCC 47CFR 15.247]:

The maximum peak output power shall not exceeded the following limits:
For frequency hopping systems employing at least 75 hopping channels: 1 Watt
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watts
For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt

Results of Bluetooth Communication mode (GFSK) (Fundamental Power): Pass

Channel	Frequency(MHz)	Conducted power(dBm)	Antenna Gain(dBi)	E.I.R.P.(dBm)	E.I.R.P (Watt)
0	2402	-1.016	0.26	-0.756	0.000840
39	2441	-1.107	0.26	-0.847	0.000823
78	2480	-1.453	0.26	-1.193	0.000760

Results of Bluetooth Communication mode ($\pi/4$ -DQPSK) (Fundamental Power): Pass

Channel	Frequency(MHz)	Conducted power(dBm)	Antenna Gain(dBi)	E.I.R.P.(dBm)	E.I.R.P (Watt)
0	2402	-0.307	0.26	-0.047	0.000989
39	2441	-0.373	0.26	-0.113	0.000974
78	2480	-0.755	0.26	-0.495	0.000892

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB
1GHz to 18GHz 1.7dB

Remark:

1. All test data for each data rate were verified, but only the worst case was reported.
2. The EUT is programmed to transmit signals continuously for all testing.

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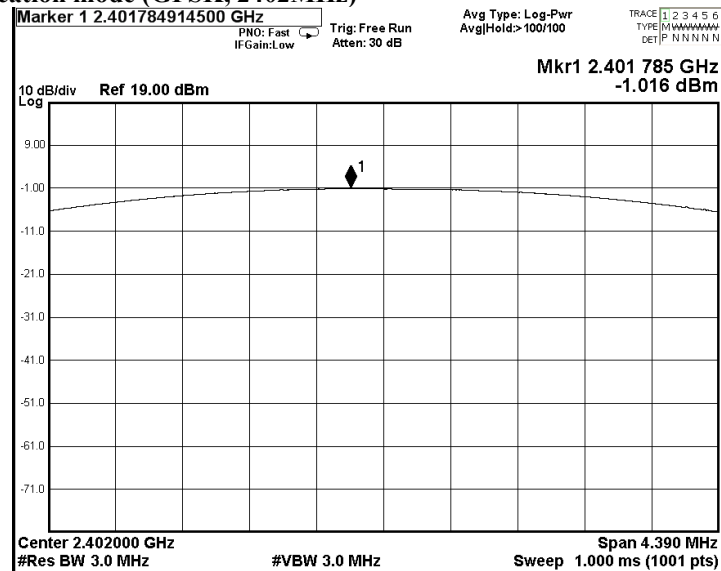
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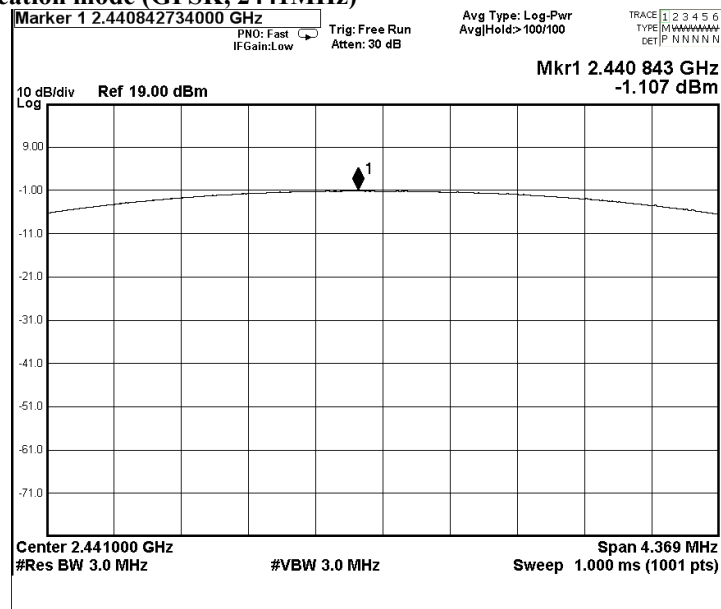
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Test plot of Maximum Peak Conducted Output Power:

Bluetooth Communication mode (GFSK, 2402MHz)



Bluetooth Communication mode (GFSK, 2441MHz)



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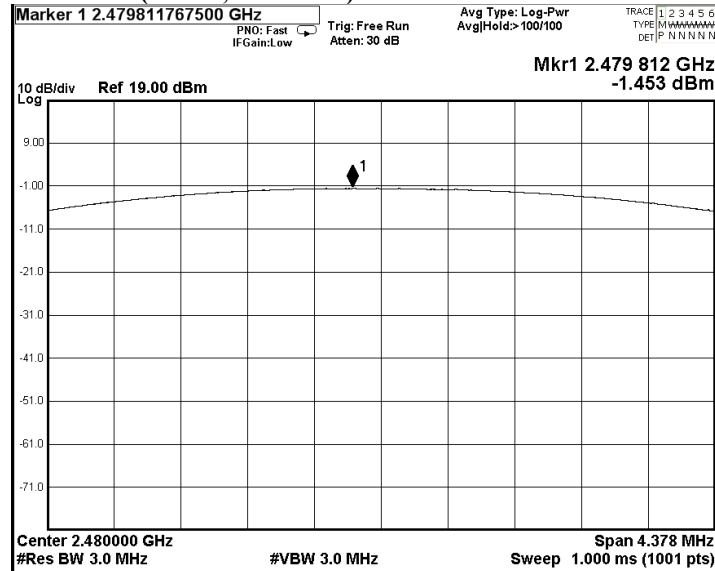
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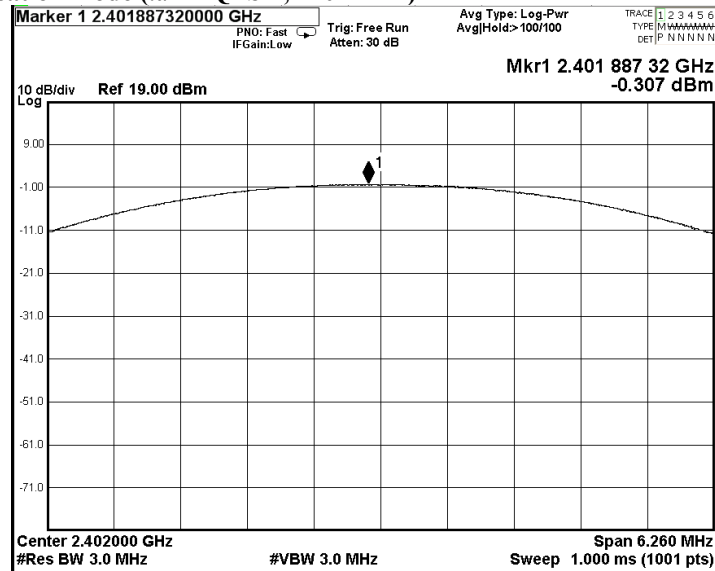
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Bluetooth Communication mode (GFSK, 2480MHz)



Bluetooth Communication mode ($\pi/4$ DQPSK, 2402MHz)



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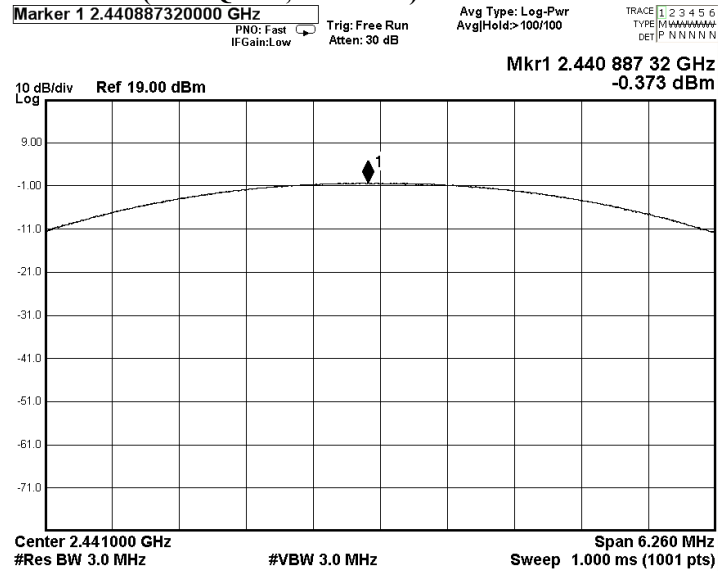
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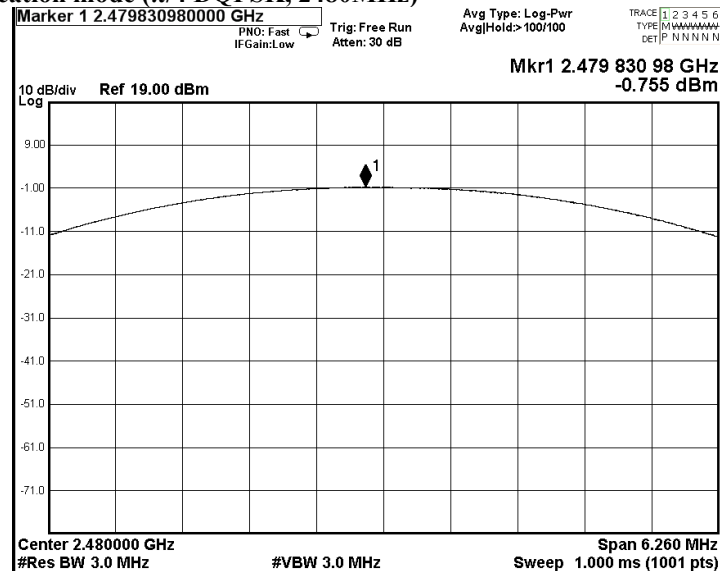
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Bluetooth Communication mode ($\pi/4$ DQPSK, 2441MHz)



Bluetooth Communication mode ($\pi/4$ DQPSK, 2480MHz)



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3.1.2 Radiated Spurious Emissions

Test Requirement:	FCC 47CFR 15.209
Test Method:	ANSI C63.10:2020
Test Date:	2026-04-13 to 2026-04-14
Mode of Operation:	Tx mode / Bluetooth play mode (GFSK)

Ambient Temperature: 26.8°C Relative Humidity: 43.9% Atmospheric Pressure: 100.8 kPa

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

- * Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with
Registration Number: HK0001
Test Firm Registration Number: 367672

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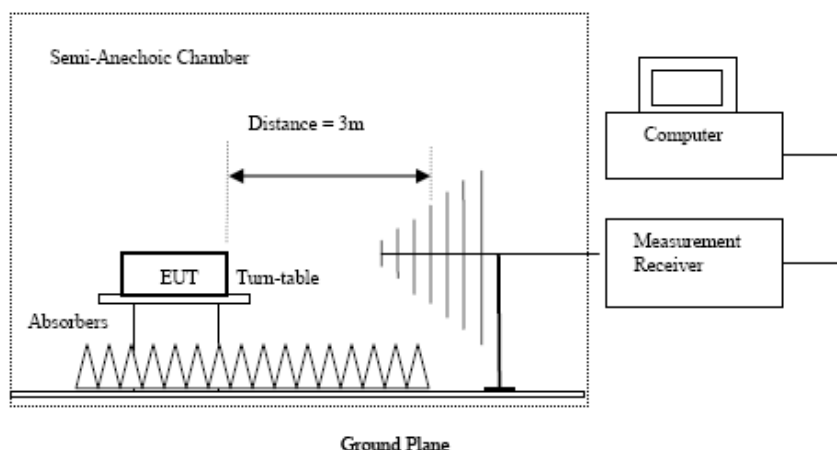
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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: 10kHz VBW: 30kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
30MHz – 1GHz (QP)	RBW: 120kHz VBW: 120kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Pk)	RBW: 1MHz VBW: 1MHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Av)	RBW: 1MHz VBW: 10Hz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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Limits for Radiated Emissions FCC 47 CFR 15.247 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	[μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode (2402.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

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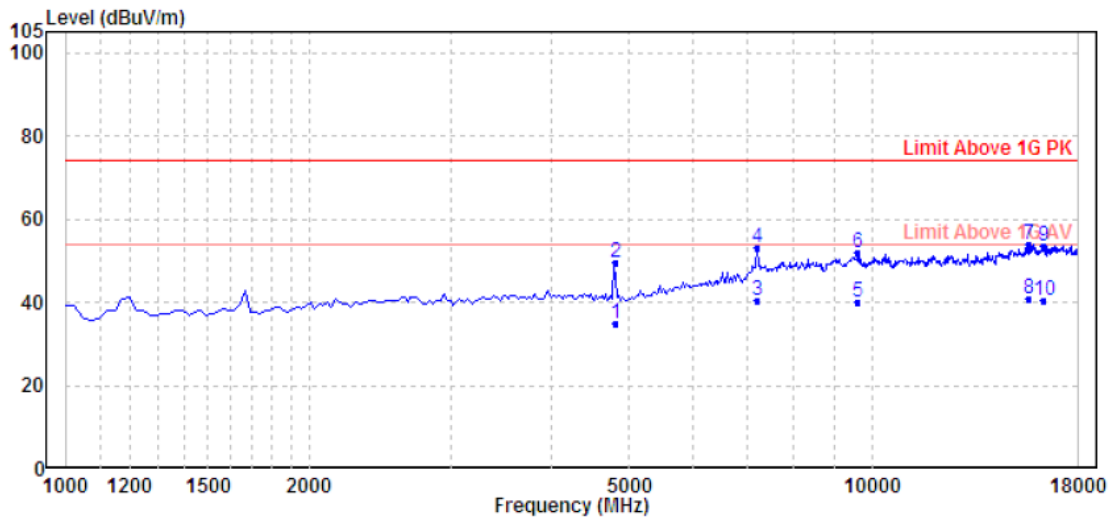


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Result of Tx mode (2402.0 MHz) (GFSK) (Above 1GHz): Pass
Horizontal



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	4804.000	34.99	54.00	-19.01	Average	Horizontal
2	4804.000	49.40	74.00	-24.60	Peak	Horizontal
3	7206.000	40.32	54.00	-13.68	Average	Horizontal
4	7206.000	53.23	74.00	-20.77	Peak	Horizontal
5	9598.551	40.08	54.00	-13.92	Average	Horizontal
6	9598.551	52.04	74.00	-21.96	Peak	Horizontal
7	15684.060	54.00	74.00	-20.00	Peak	Horizontal
8	15684.060	41.00	54.00	-13.00	Average	Horizontal
9	16349.280	53.64	74.00	-20.36	Peak	Horizontal
10	16349.280	40.31	54.00	-13.69	Average	Horizontal

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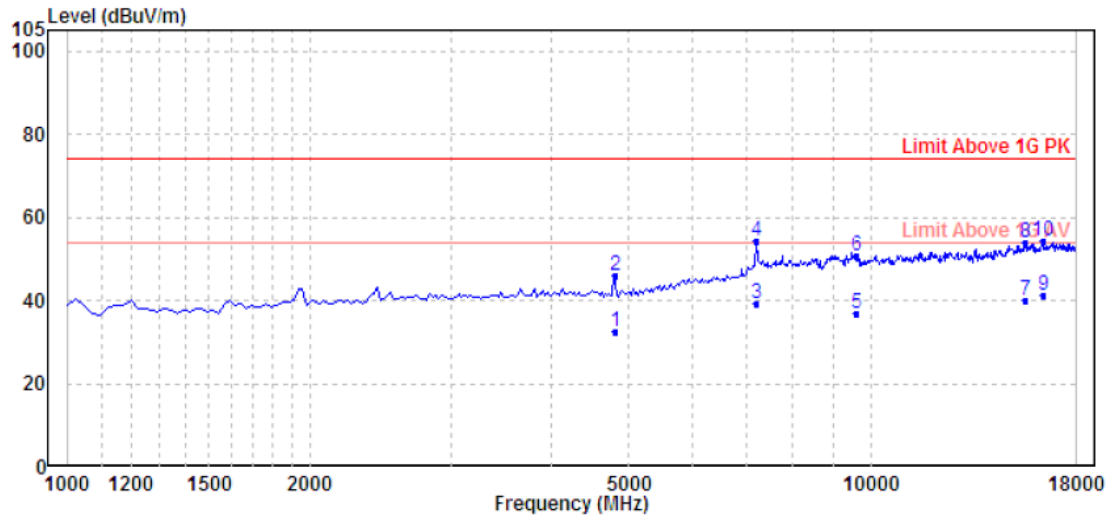


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Vertical



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	4804.000	32.65	54.00	-21.35	Average	Vertical
2	4804.000	45.97	74.00	-28.03	Peak	Vertical
3	7206.000	39.27	54.00	-14.73	Average	Vertical
4	7206.000	54.40	74.00	-19.60	Peak	Vertical
5	9608.000	36.99	54.00	-17.01	Average	Vertical
6	9608.000	50.57	74.00	-23.43	Peak	Vertical
7	15610.140	40.14	54.00	-13.86	Average	Vertical
8	15610.140	53.85	74.00	-20.15	Peak	Vertical
9	16373.910	41.05	54.00	-12.95	Average	Vertical
10	16373.910	54.37	74.00	-19.63	Peak	Vertical

Field Strength of Harmonics Emission Above 18GHz:

Emissions detected are more than 20 dB below the FCC Limits.



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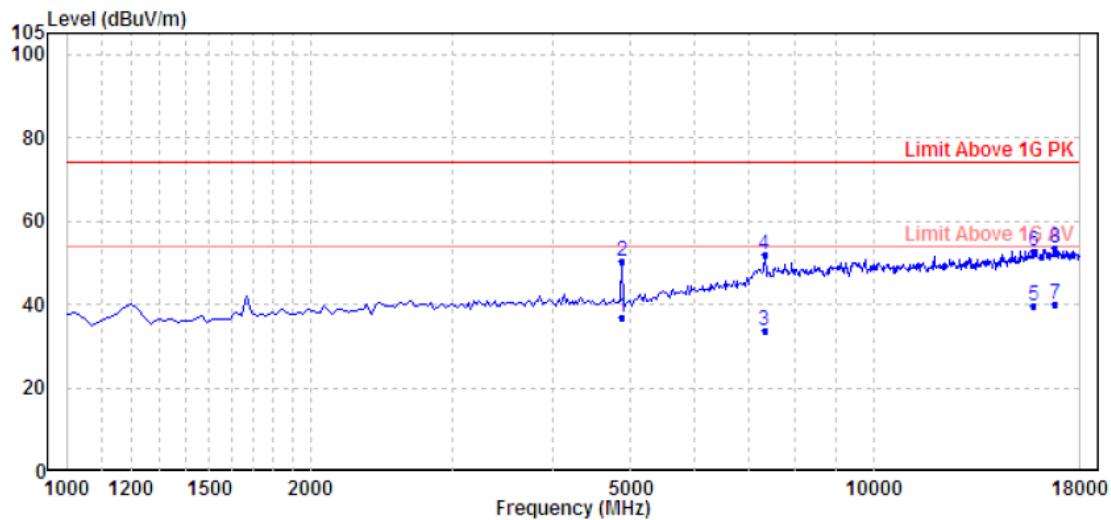
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Result of Tx mode (2441.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions						
Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
MHz	Level	Factor	Strength	Strength		Polarity
	dBuV	dB/m	dBuV/m	uV/m	uV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2441.0 MHz) (GFSK) (Above 1GHz): Pass
Horizontal



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	4882.000	36.96	54.00	-17.04	Average	Horizontal
2	4882.000	50.37	74.00	-23.63	Peak	Horizontal
3	7323.000	33.74	54.00	-20.26	Average	Horizontal
4	7323.000	51.85	74.00	-22.15	Peak	Horizontal
5	15782.610	39.51	54.00	-14.49	Average	Horizontal
6	15782.610	52.88	74.00	-21.12	Peak	Horizontal
7	16792.750	40.14	54.00	-13.86	Average	Horizontal
8	16792.750	53.48	74.00	-20.52	Peak	Horizontal

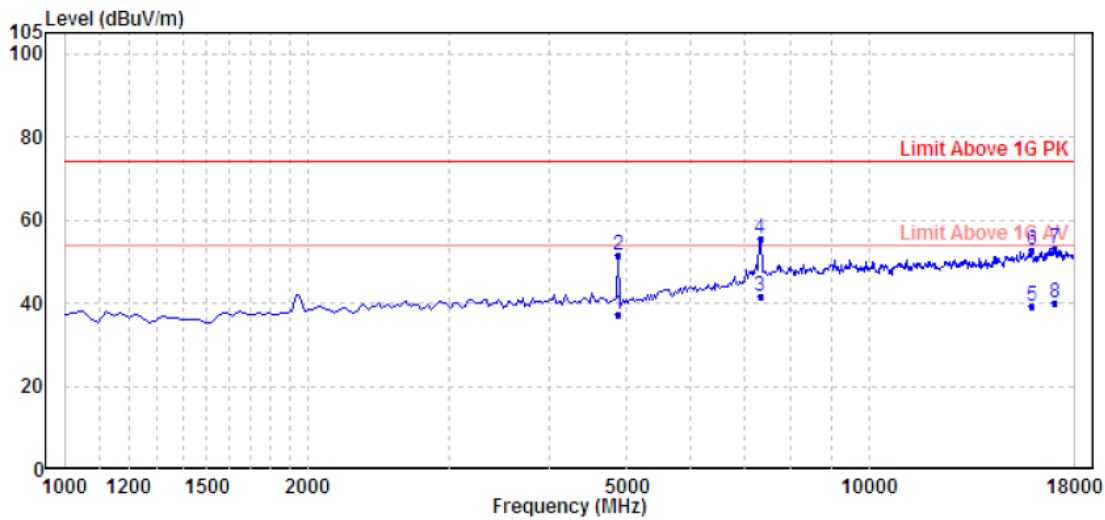


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Vertical



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over		
	MHz	dBuV/m	dBuV/m	dB	Remark	Pol/Phase
1	4882.000	37.30	54.00	-16.70	Average	Vertical
2	4882.000	51.67	74.00	-22.33	Peak	Vertical
3	7323.000	41.44	54.00	-12.56	Average	Vertical
4	7323.000	55.42	74.00	-18.58	Peak	Vertical
5	15930.430	39.27	54.00	-14.73	Average	Vertical
6	15930.430	52.66	74.00	-21.34	Peak	Vertical
7	17063.770	53.19	74.00	-20.81	Peak	Vertical
8	17063.770	39.92	54.00	-14.08	Average	Vertical

Field Strength of Harmonics Emission Above 18GHz:

Emissions detected are more than 20 dB below the FCC Limits.



Test Report

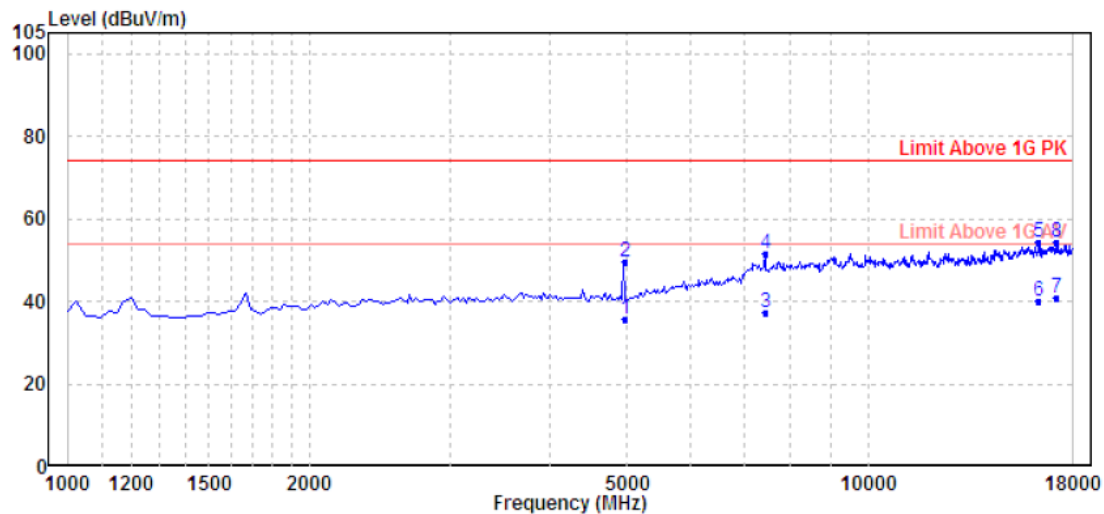
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Result of Tx mode (2480.0 MHz) (GFSK) (9kHz – 30MHz): Pass

Field Strength of Spurious Emissions Peak Value						
Frequency MHz	Measured Level dBuV	Correction Factor dB/m	Field Strength dBuV/m	Field Strength uV/m	Limit uV/m	E-Field Polarity
Emissions detected are more than 20 dB below the FCC Limits						

Result of Tx mode (2480.0 MHz) (GFSK) (Above 1GHz): Pass
Horizontal



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	Limit		
1	4960.000	35.48	54.00	-18.52	Average	Horizontal
2	4960.000	49.64	74.00	-24.36	Peak	Horizontal
3	7440.000	37.06	54.00	-16.94	Average	Horizontal
4	7440.000	51.47	74.00	-22.53	Peak	Horizontal
5	16349.280	54.30	74.00	-19.70	Peak	Horizontal
6	16349.280	39.93	54.00	-14.07	Average	Horizontal
7	17236.230	40.66	54.00	-13.34	Average	Horizontal
8	17236.230	54.16	74.00	-19.84	Peak	Horizontal

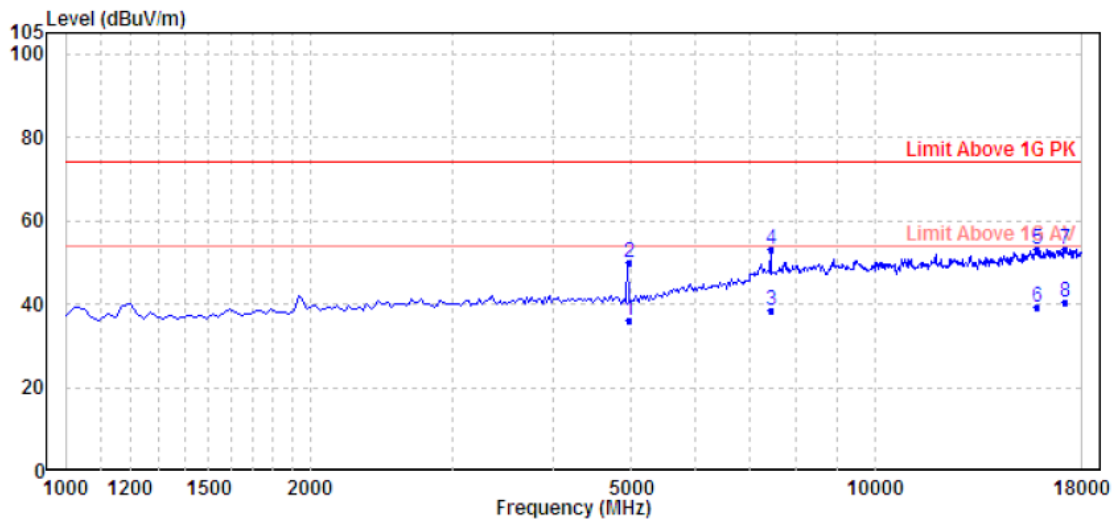


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Vertical



Ambient Temperature : 24°C
Relative Humidity : 44%
Atmospheric Pressure: 101.7kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	4960.000	35.91	54.00	-18.09	Average	Vertical
2	4960.000	49.82	74.00	-24.18	Peak	Vertical
3	7440.000	38.48	54.00	-15.52	Average	Vertical
4	7440.000	53.20	74.00	-20.80	Peak	Vertical
5	15881.160	53.17	74.00	-20.83	Peak	Vertical
6	15881.160	39.32	54.00	-14.68	Average	Vertical
7	17186.960	52.96	74.00	-21.04	Peak	Vertical
8	17186.960	40.31	54.00	-13.69	Average	Vertical

Field Strength of Harmonics Emission Above 18GHz:

Emissions detected are more than 20 dB below the FCC Limits.

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Remarks:

Note : GFSK PI/4DQPSK have been tested in all modes, and the report reflects the worst mode of GFSK

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement	(9kHz-30MHz): 2.0dB
uncertainty	(30MHz -1GHz): 4.9dB
	(1GHz -6GHz): 4.02dB
	(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Radiated Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

Result: RF Radiated Emissions (Lowest)- $\pi/4$ -DQPSK (the Worst-case)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2390.0	54.0	-4.8	49.2	74.0	24.8	Vertical
2390.0	52.7	-4.7	48.0	74.0	26.0	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2390.0	46.3	-4.8	41.5	54.0	12.5	Vertical
2390.0	44.8	-4.7	40.1	54.0	16.5	Horizontal

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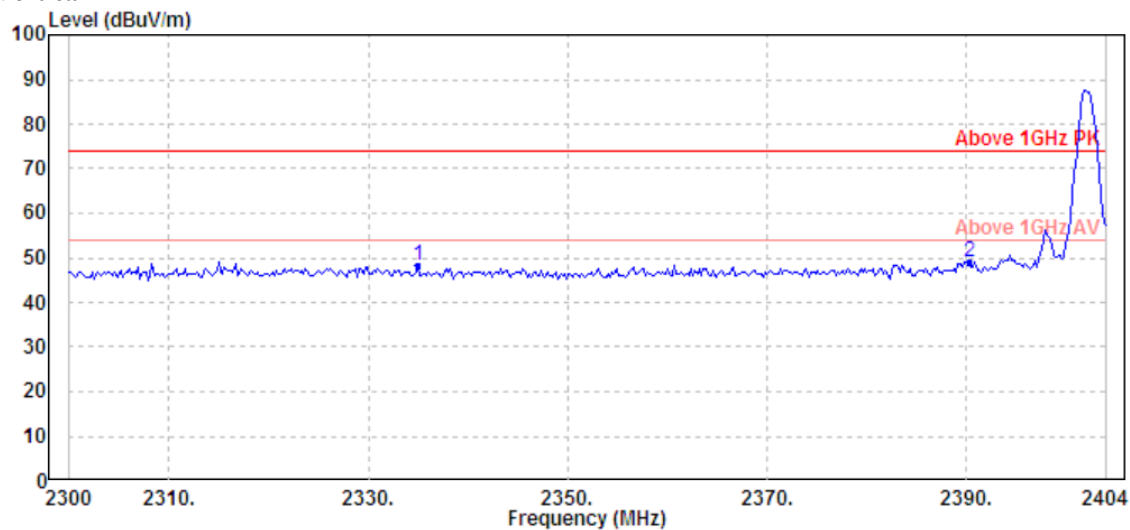
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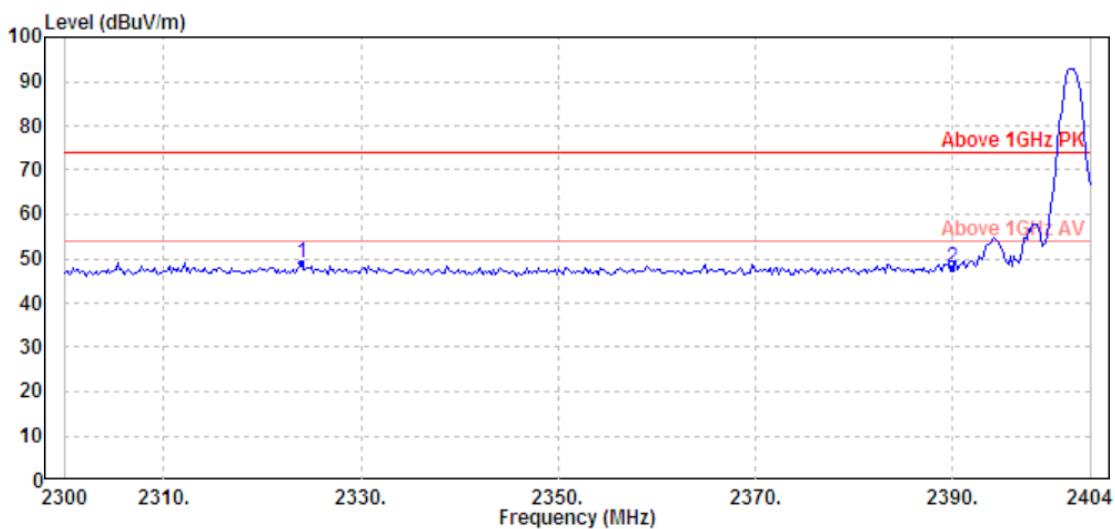
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Vertical



Horizontal



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Result: RF Radiated Emissions (Highest) - $\pi/4$ -DQPSK (the Worst-case)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2483.5	55.7	-4.8	50.9	74.0	23.1	Vertical
2483.5	56.4	-4.7	51.7	74.0	22.3	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dB μ V	Correction Factor dB/m	Field Strength dB μ V/m	Limit @3m dB μ V/m	Margin dB	E-Field Polarity
2483.5	47.2	-4.8	42.4	54.0	11.6	Vertical
2483.5	46.6	-4.7	41.9	54.0	12.1	Horizontal

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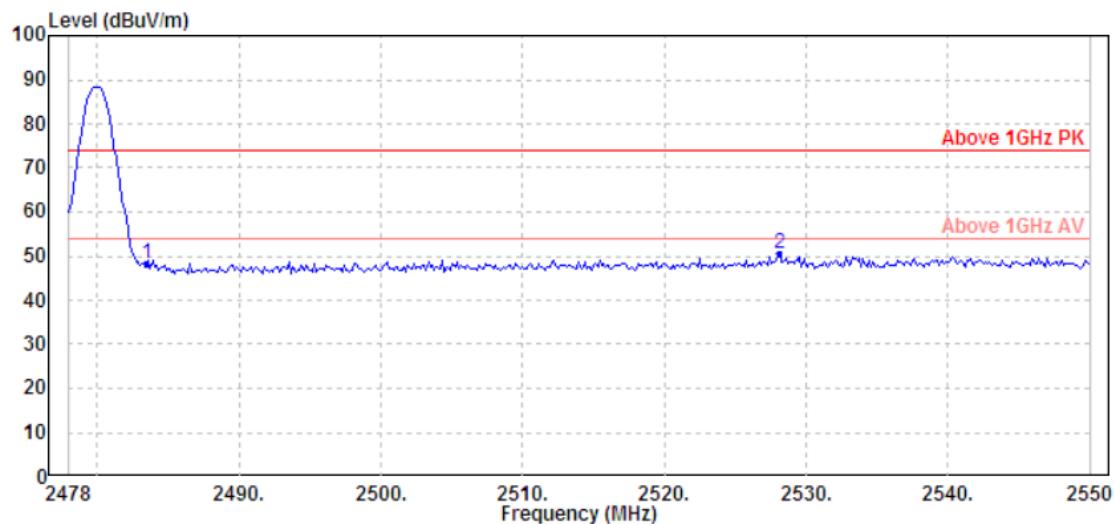


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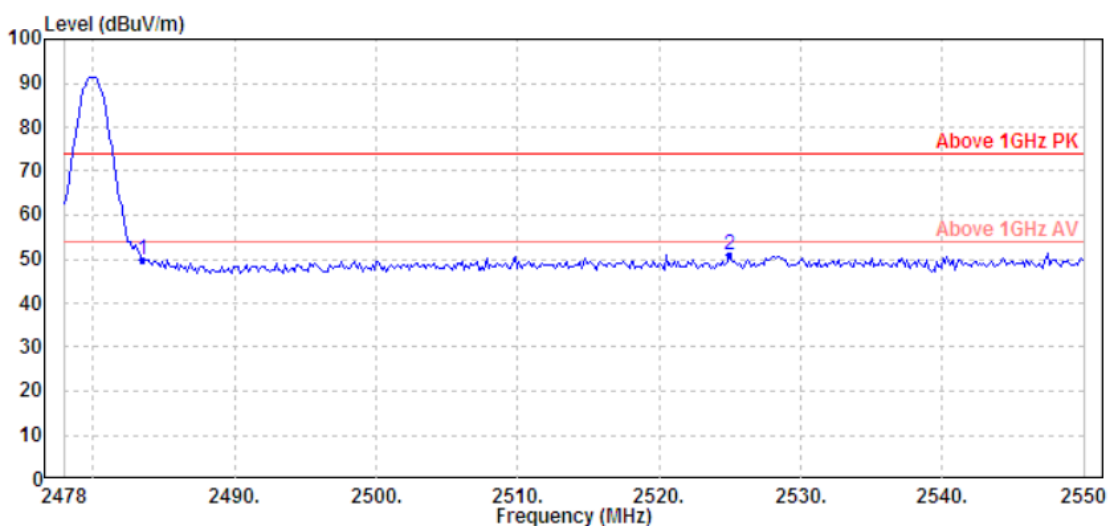
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Vertical



Horizontal



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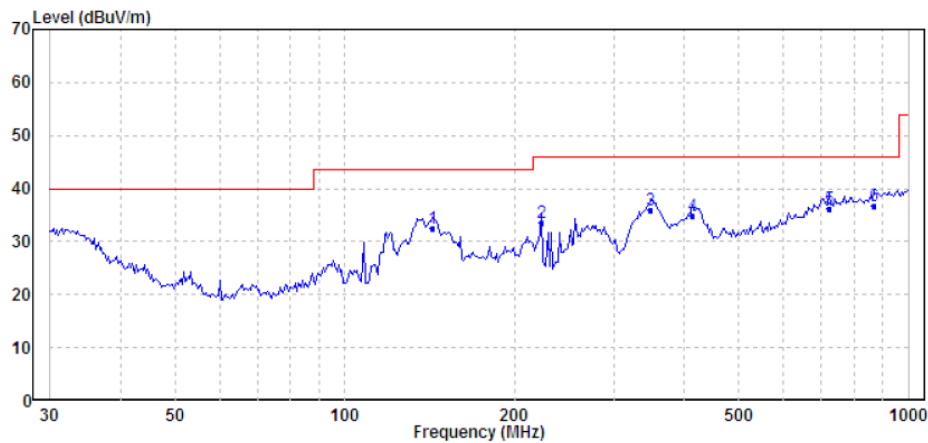
Limits for Radiated Emissions FCC 47 CFR 15.247 Class B):

Frequency Range	Quasi-Peak Limits
[MHz]	[μ V/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Results of Bluetooth mode (GFSK 2402.0 MHz) (30MHz – 1GHz): Pass

Horizontal



Ambient Temperature: 24.7 °C
Relative Humidity : 53.1%
Air Pressure : 100.8 kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	143.326	32.62	43.50	-10.88	QP	Horizontal
2	222.950	33.45	46.00	-12.55	QP	Horizontal
3	349.250	35.90	46.00	-10.10	QP	Horizontal
4	413.271	34.96	46.00	-11.04	QP	Horizontal
5	724.261	36.12	46.00	-9.88	QP	Horizontal
6	869.130	36.59	46.00	-9.41	QP	Horizontal

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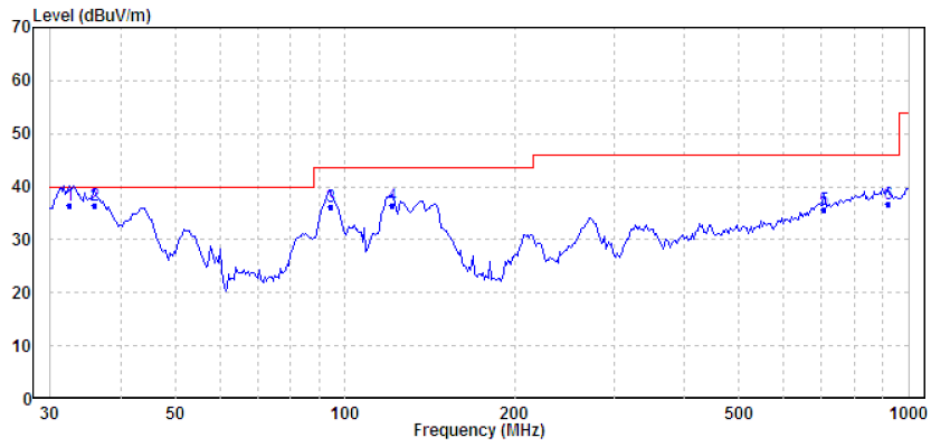
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Results of Bluetooth mode (GFSK 2402.0 MHz) (30MHz – 1GHz): Pass

Vertical



Ambient Temperature: 24.7 °C

Relative Humidity : 53.1%

Air Pressure : 100.8 kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	32.406	36.55	40.00	-3.45	QP	Vertical
2	36.001	36.44	40.00	-3.56	QP	Vertical
3	94.098	36.19	43.50	-7.31	QP	Vertical
4	121.123	36.45	43.50	-7.05	QP	Vertical
5	709.182	35.54	46.00	-10.46	QP	Vertical
6	919.287	36.60	46.00	-9.40	QP	Vertical

Remarks: Calculated measurement uncertainty (30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.10:2020
Test Date: 2026-04-27
Mode of Operation: Bluetooth mode
Test Voltage: 120V.a.c. 60Hz

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

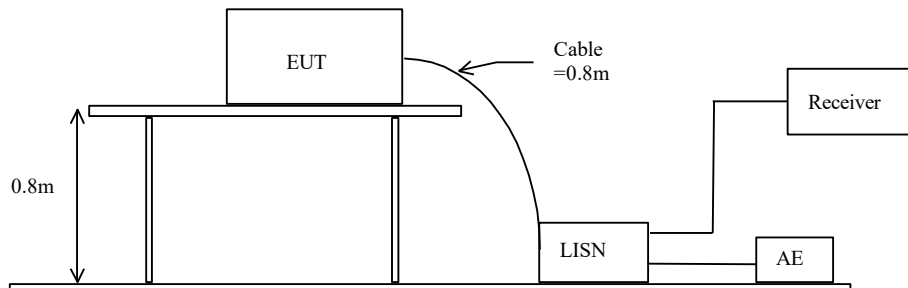
Test Method:

The test was performed in accordance with ANSI C63.10:2020, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

-*- Emission(s) that is far below the corresponding limit line.

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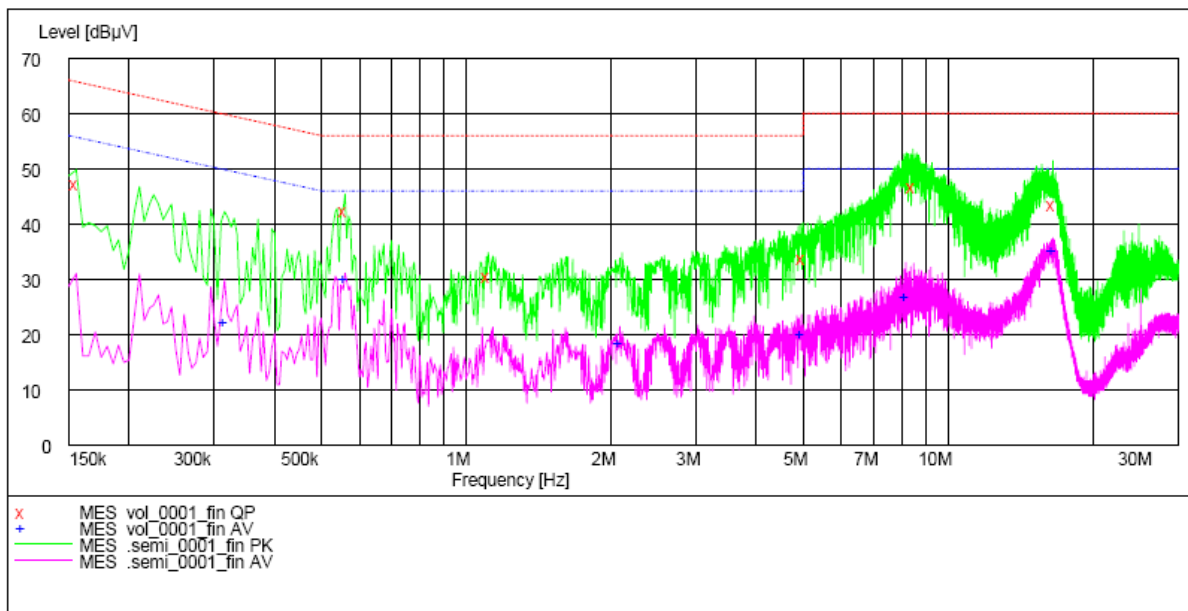
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Results of Bluetooth mode (L): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin_QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.155000	47.40	9.6	66	18.3	L1	GND
0.560000	42.60	9.6	56	13.4	L1	GND
1.110000	30.80	9.7	56	25.2	L1	GND
4.985000	33.90	9.7	56	22.1	L1	GND
8.455000	46.90	9.9	60	13.1	L1	GND
16.515000	43.70	10.2	60	16.3	L1	GND

MEASUREMENT RESULT: "vol_0001_fin_AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.315000	22.40	9.6	50	27.4	L1	GND
0.560000	30.20	9.6	46	15.8	L1	GND
2.080000	18.60	9.7	46	27.4	L1	GND
4.960000	20.30	9.7	46	25.7	L1	GND
8.175000	27.00	9.9	50	23.0	L1	GND
16.515000	35.20	10.2	50	14.8	L1	GND

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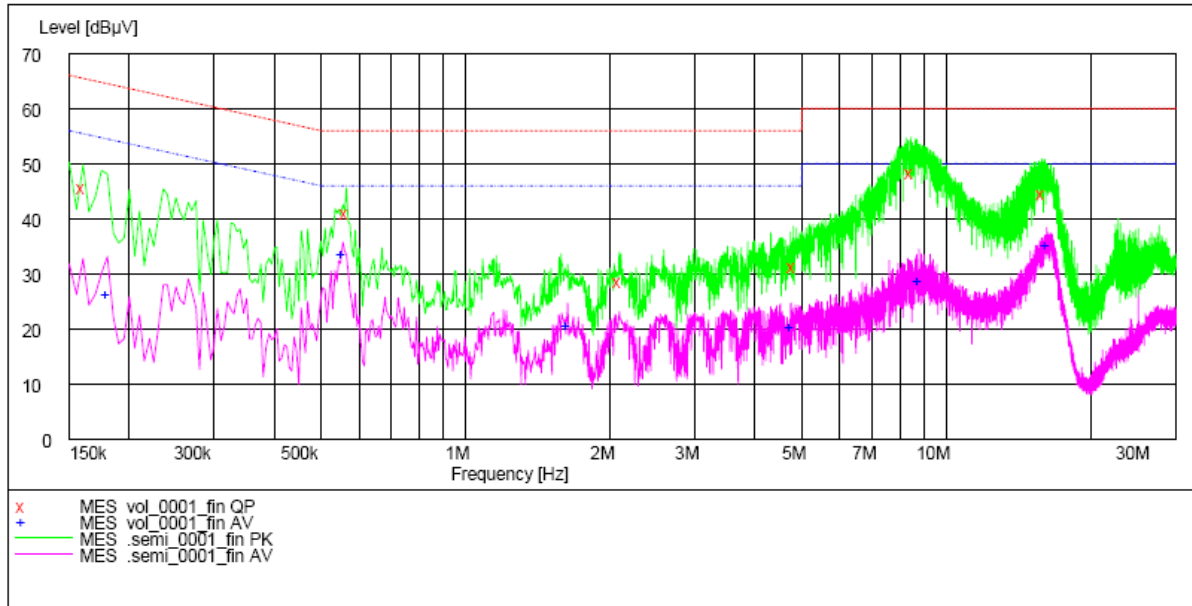
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Results of Bluetooth mode (N): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.160000	45.90	9.6	66	19.5	N	GND
0.565000	41.20	9.6	56	14.8	N	GND
2.090000	28.80	9.7	56	27.2	N	GND
4.815000	31.50	9.7	56	24.5	N	GND
8.440000	48.50	9.9	60	11.5	N	GND
15.850000	44.80	10.2	60	15.2	N	GND

MEASUREMENT RESULT: "vol_0001_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.180000	26.50	9.6	55	28.0	N	GND
0.555000	33.80	9.6	46	12.2	N	GND
1.630000	20.90	9.7	46	25.1	N	GND
4.755000	20.50	9.7	46	25.5	N	GND
8.760000	28.80	9.9	50	21.2	N	GND
16.180000	35.40	10.2	50	14.6	N	GND

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3.1.4 Number of Hopping Frequency

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Limit of Number of Hopping Frequency

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels

Test Method:

The RF output of the EUT was connected to the spectrum analyzer by a low loss cable.

Spectrum Analyzer Setting:

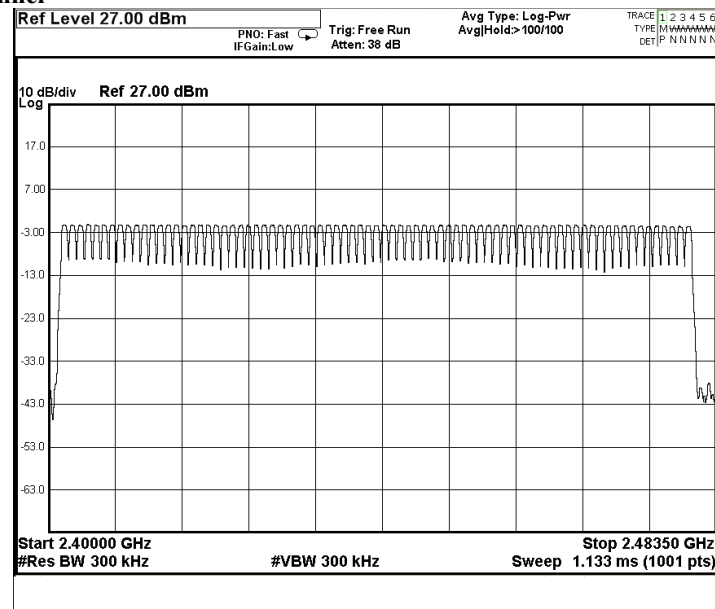
RBW = 300kHz, VBW $\geq$ RBW, Sweep = Auto, Span = the frequency band of operation
Detector = Peak, Trace = Max. hold

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Measurement Data:

GFSK: 79 of 79 Channel



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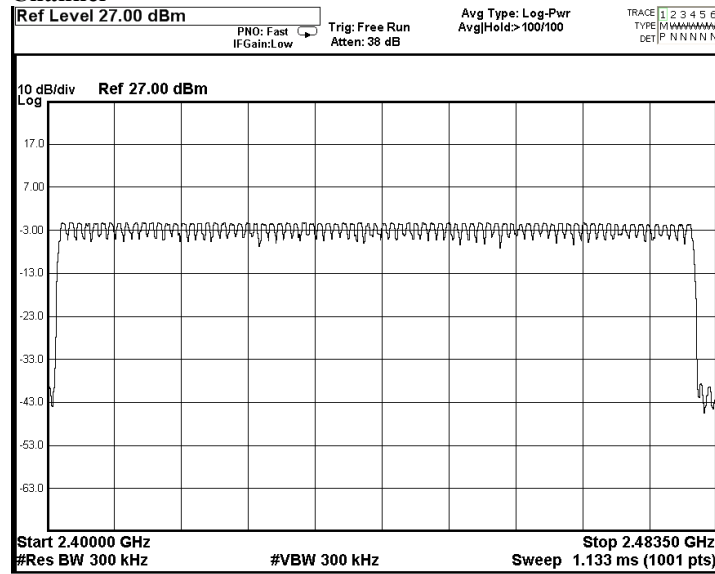
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3.1.5 20dB Bandwidth

Test Requirement: FCC 47CFR 15.247(a)(1)
Test Method: ANSI C63.10:2020
Test Date: 2026-04-12
Mode of Operation: Tx mode

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Remark:

The result has been done on all the possible configurations for searching the worst cases.

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Spectrum Analyzer Setting:

RBW = 30kHz, VBW $\geq$ RBW, Sweep = Auto, Span = two times and five times the OBW
Detector = Peak, Trace = Max. hold

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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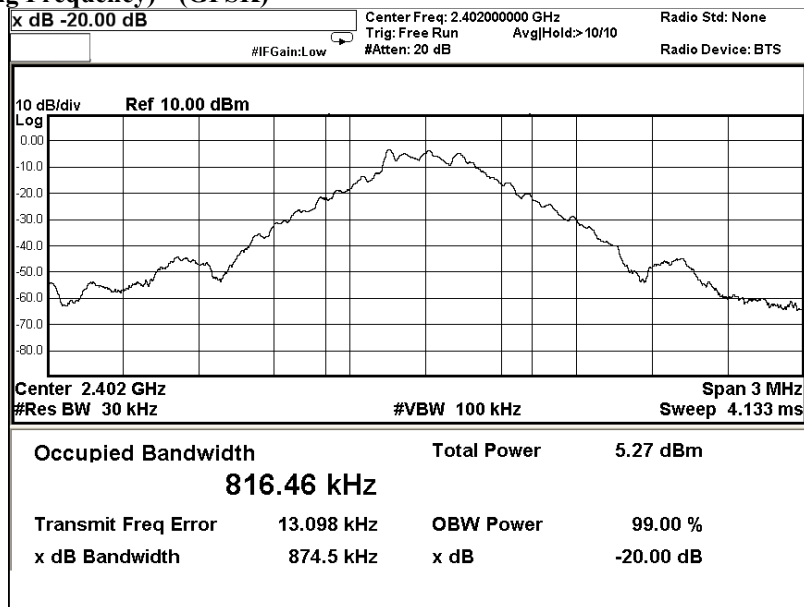
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Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2402	874.5	Within 2400-2483.5

(Lowest Operating Frequency) - (GFSK)



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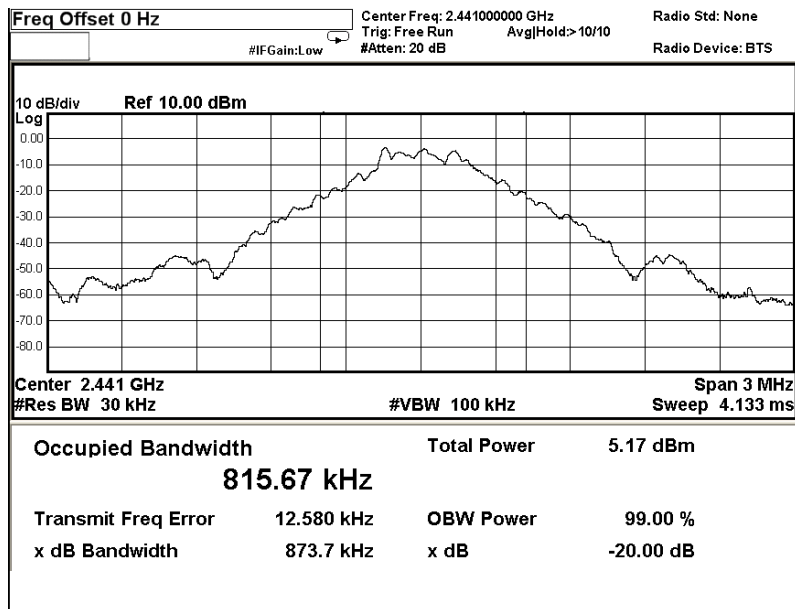
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Fundamental Frequency [MHz]	20dB Bandwidth [KHz]	FCC Limits [MHz]
2441	873.7	Within 2400-2483.5

(Middle Operating Frequency) - (GFSK)



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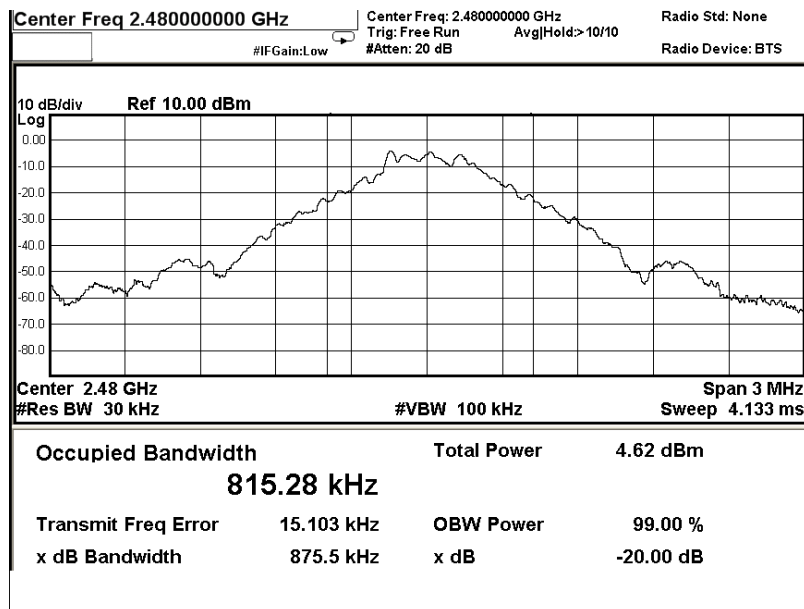
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Fundamental Frequency [MHz]	20dB Bandwidth [kHz]	FCC Limits [MHz]
2480	875.5	Within 2400-2483.5

(Highest Operating Frequency) - (GFSK)



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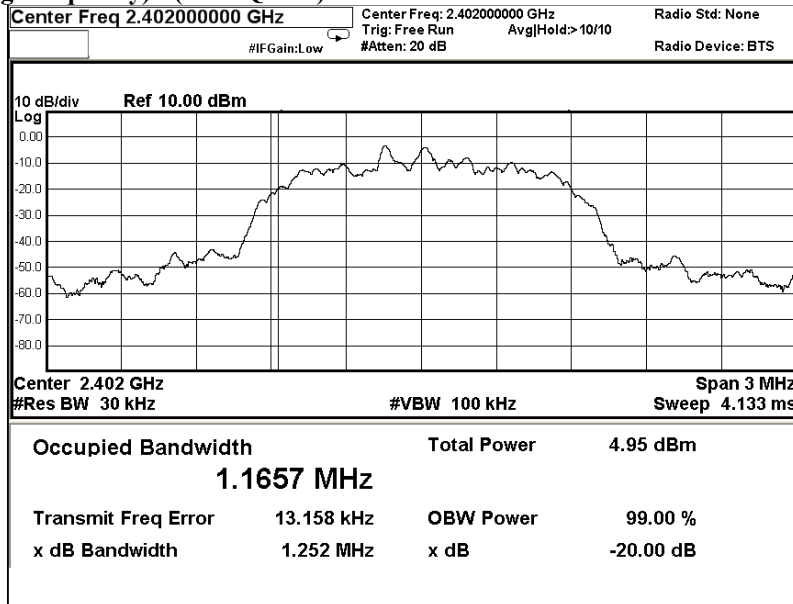
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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2402	1.252	Within 2400-2483.5

(Lowest Operating Frequency) - ($\pi/4$ DQPSK)



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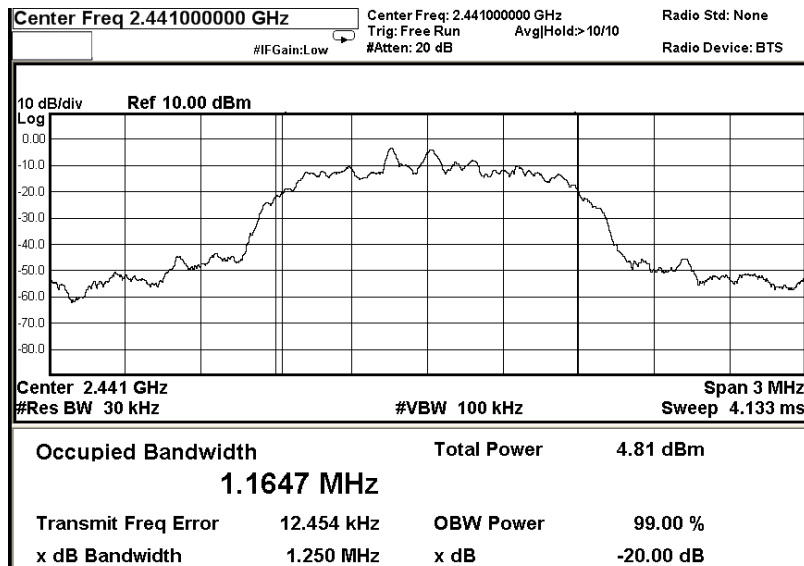
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Fundamental Frequency	20dB Bandwidth	FCC Limits
[MHz]	[MHz]	[MHz]
2441	1.250	Within 2400-2483.5

(Middle Operating Frequency) - ($\pi/4$ DQPSK)



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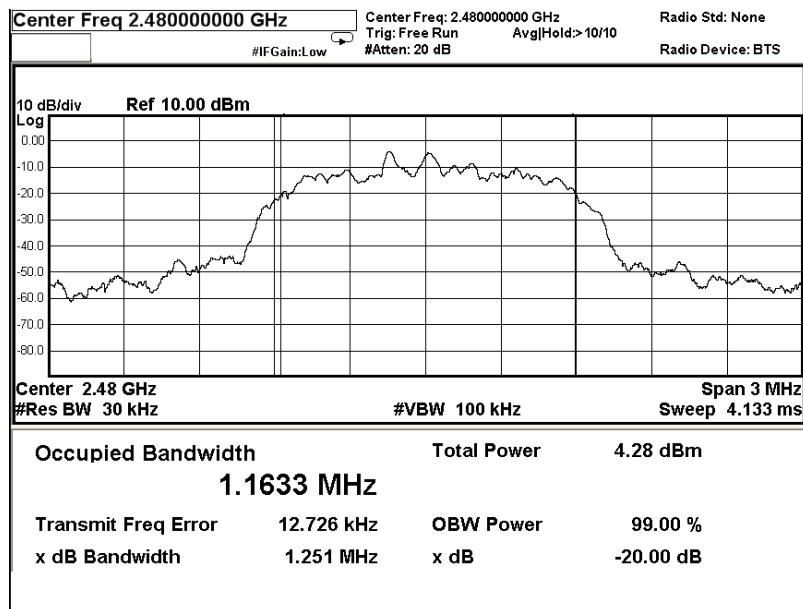
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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2480	1.251	Within 2400-2483.5

(Highest Operating Frequency) - ($\pi/4$ DQPSK)



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3.1.6 Hopping Channel Separation

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Requirements:

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Analyzer Setting:

RBW = 300kHz, VBW $\geq$ RBW, Sweep = Auto,
Span = Wide enough to capture the peaks of two adjacent channels
Detector = Peak, Trace = Max. hold

Limit:

The measured maximum bandwidth= 1252kHz ($\pi/4$ DQPSK)

The measured maximum bandwidth * 2/3 = 1252kHz * 2/3 = 834.67kHz ($\pi/4$ DQPSK)

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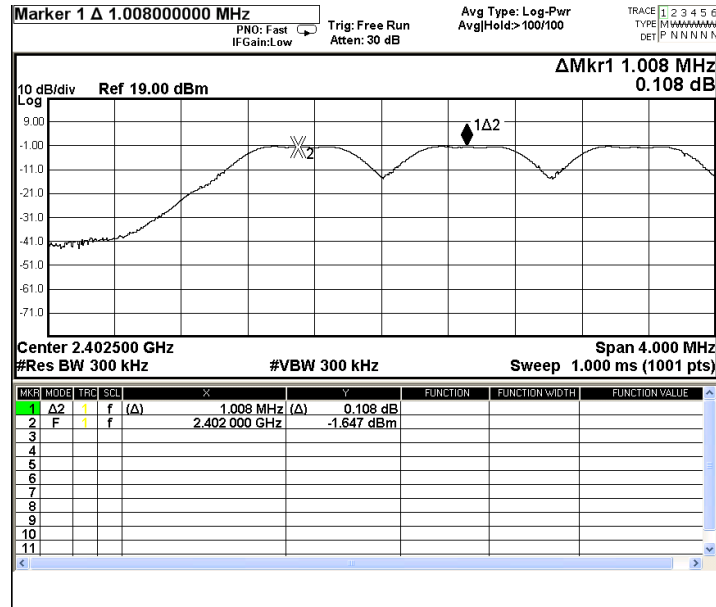
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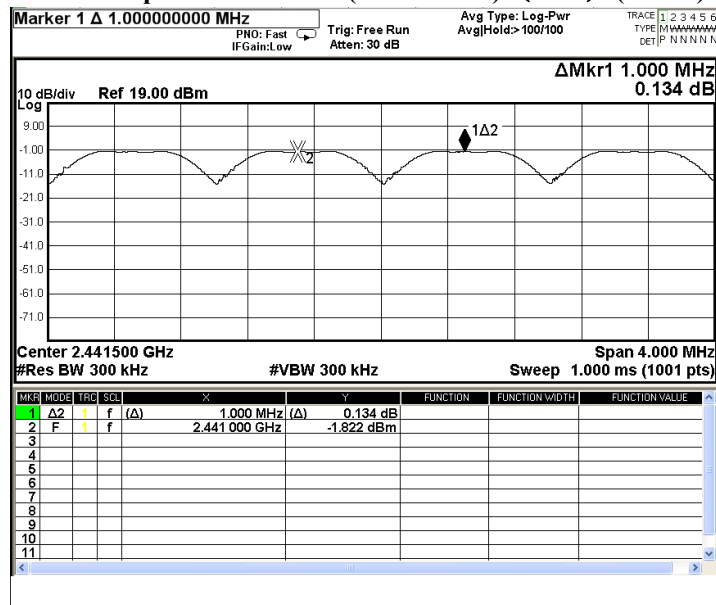
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Channel separation = 1MHz (>834.67kHz) (Lowest) (GFSK)



Channel separation = 1MHz (>834.67kHz) (Mid) (GFSK)



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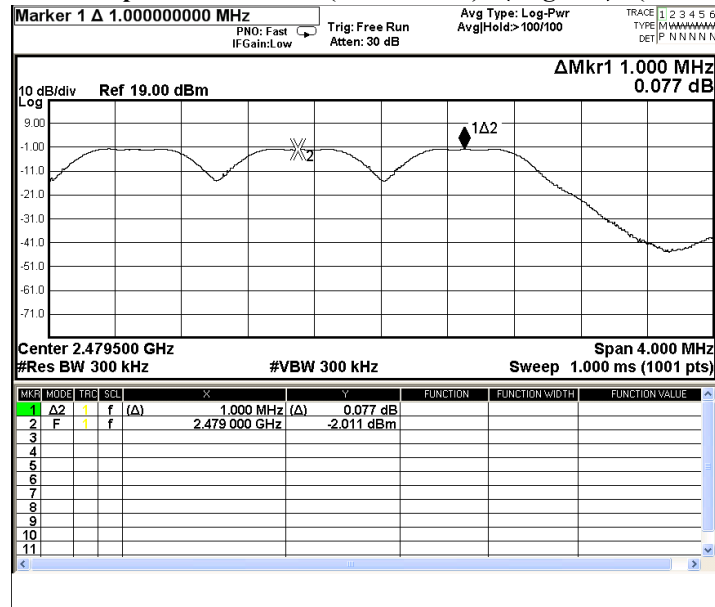


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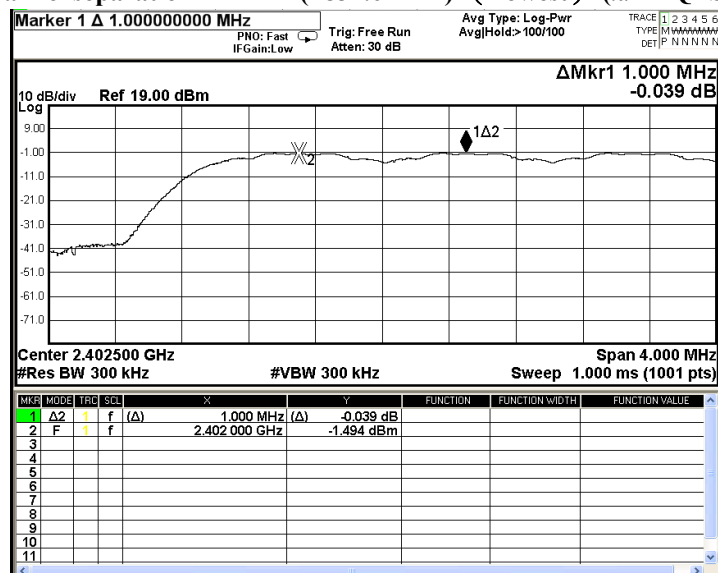
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Channel separation = 1MHz (>834.67kHz) (Highest) (GFSK)



Channel separation = 1MHz (>834.67kHz) (Lowest) ($\pi/4$ DQPSK)



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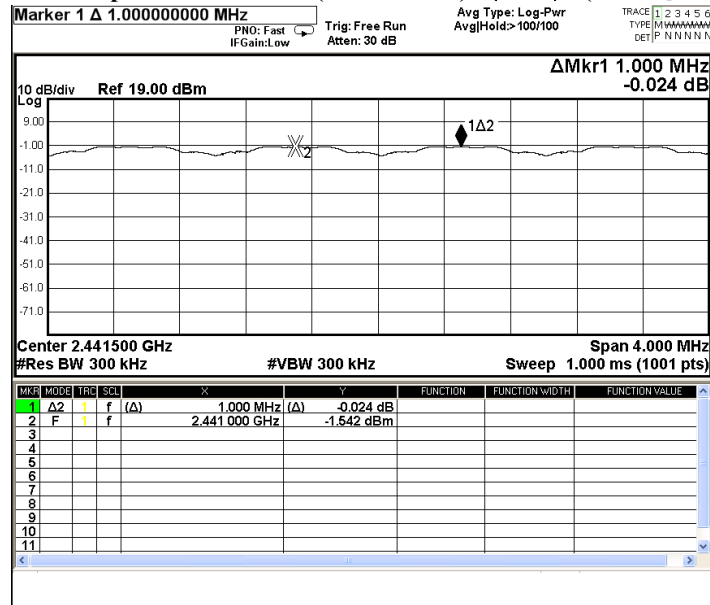


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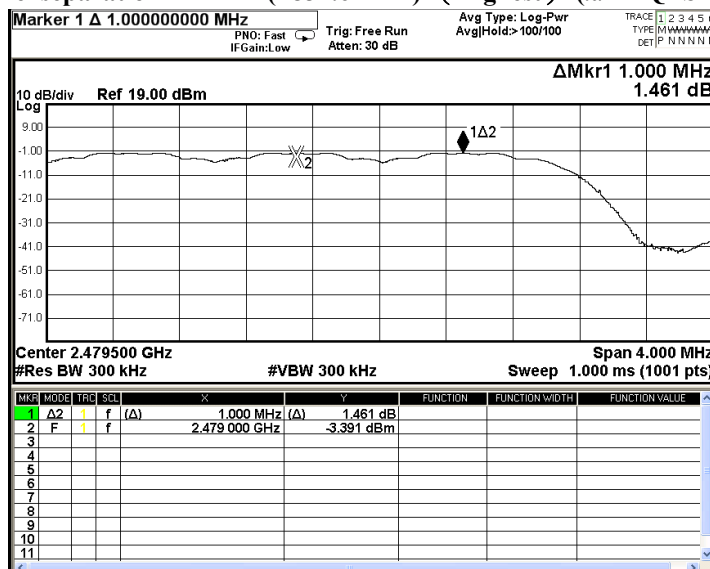
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Channel separation = 1MHz (>834.67kHz) (Mid) ($\pi/4$ DQPSK)



Channel separation = 1MHz (>834.67kHz) (Highest) ($\pi/4$ DQPSK)



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3.1.7 Band-edge Compliance of RF Conducted Emissions Measurement:

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

According to the test method DA 00-705.

Spectrum Analyzer Setting:

RBW = 100kHz, VBW= 300kHz, Sweep = Coupled,

Span = Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Detector = Peak, Trace = Max. hold

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

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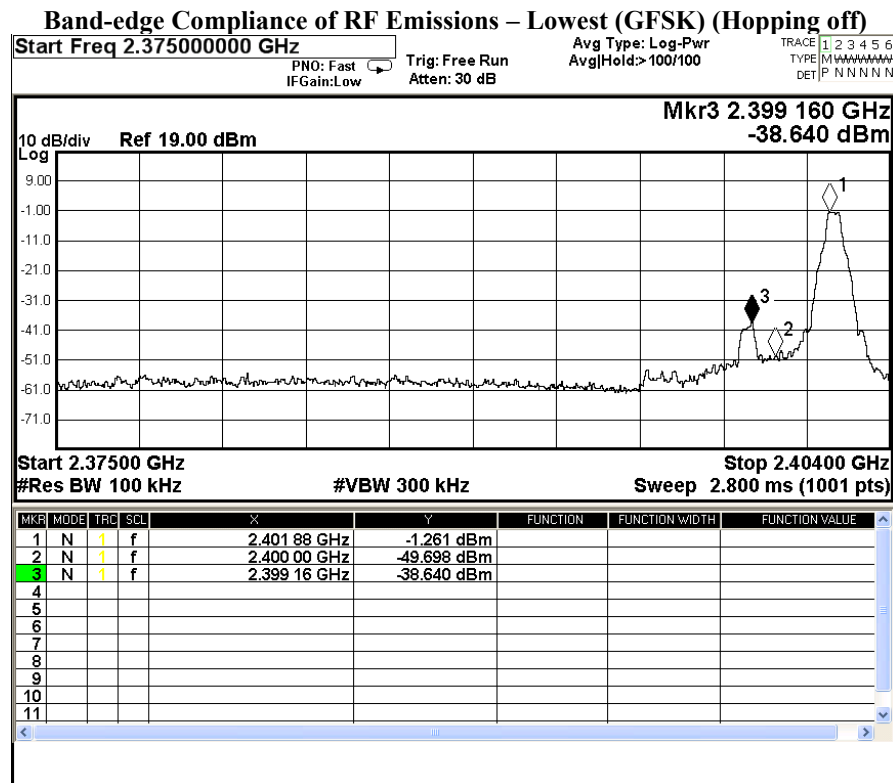
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2402)	-1.261	-21.261	-38.640	PASS



In restricted bands 2310-2390MHz, Emissions detected are more than 20 dB below the Limits.

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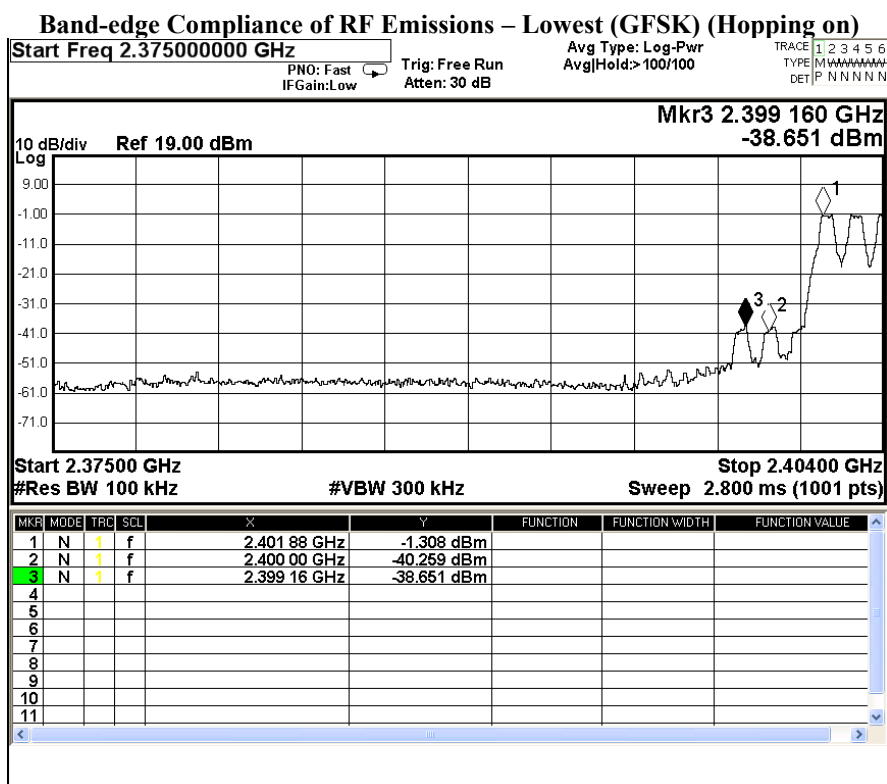
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2402)	-1.308	-21.308	-38.661	PASS



In restricted bands 2310-2390MHz, Emissions detected are more than 20 dB below the Limits.

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Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 - Highest Fundamental (2480)	-2.045	-22.045	-41.272	PASS

[illegible]



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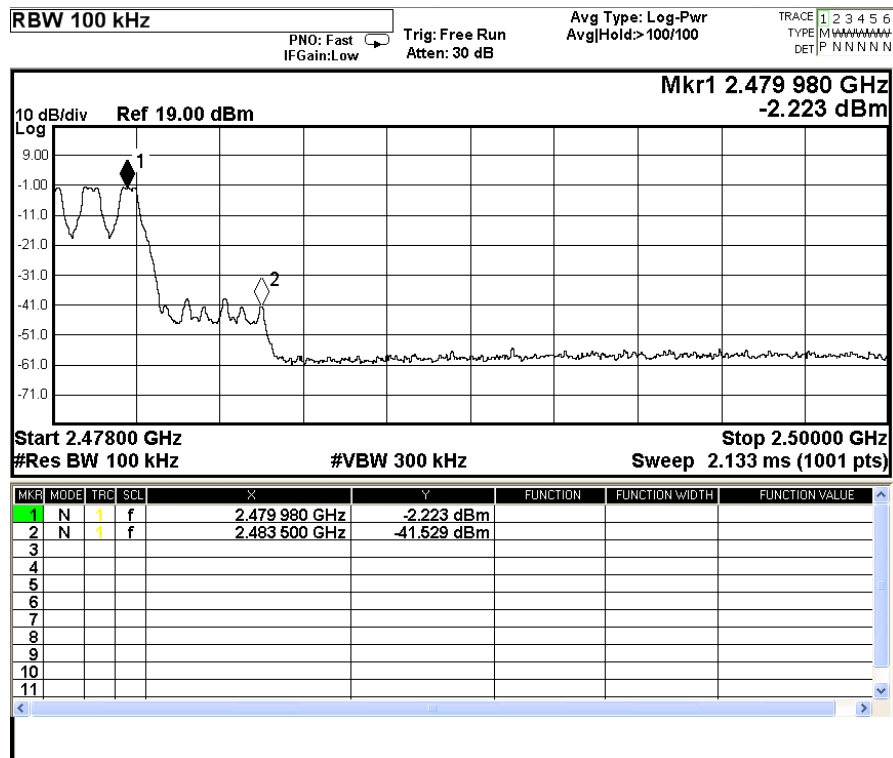
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 - Highest Fundamental (2480)	-2.223	-22.223	-41.529	PASS

Band-edge Compliance of RF Emissions – Highest (GFSK) (Hopping on)



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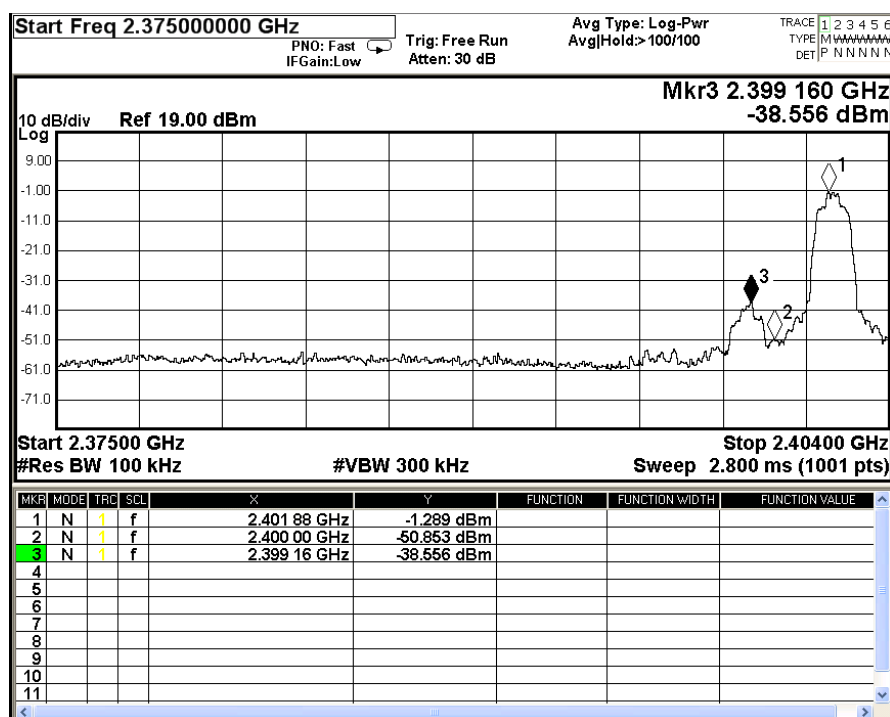
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2402)	-1.289	-21.289	-38.556	PASS

Band-edge Compliance of RF Emissions – Lowest ($\pi/4$ DQPSK) (Hopping off)



In restricted bands 2310-2390MHz, Emissions detected are more than 20 dB below the Limits.

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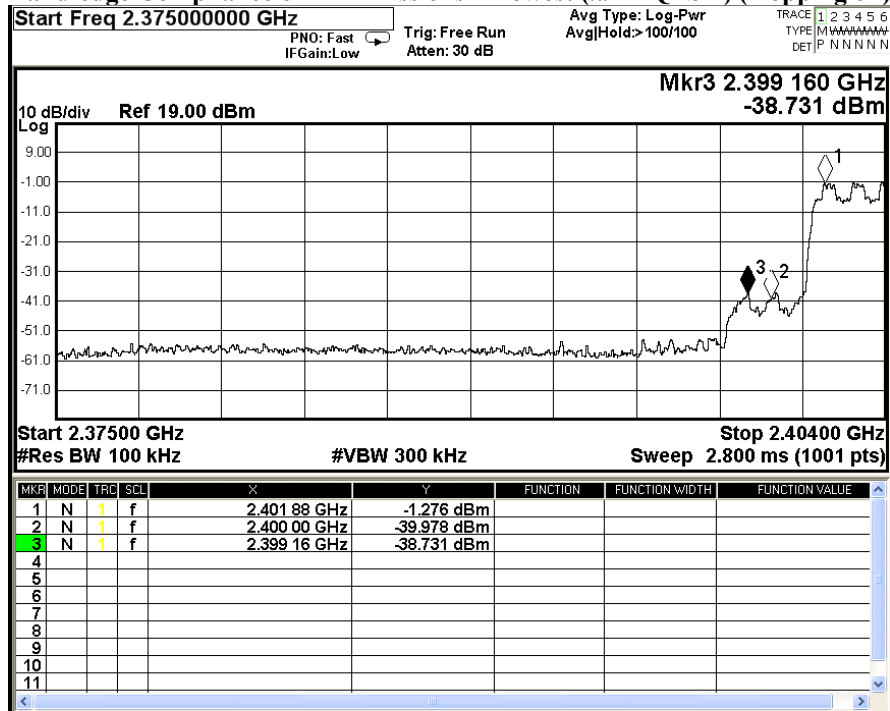
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2400 – Lowest Fundamental (2402)	-1.276	-21.276	-38.731	PASS

Band-edge Compliance of RF Emissions – Lowest ($\pi/4$ DQPSK) (Hopping on)



In restricted bands 2310-2390MHz, Emissions detected are more than 20 dB below the Limits.

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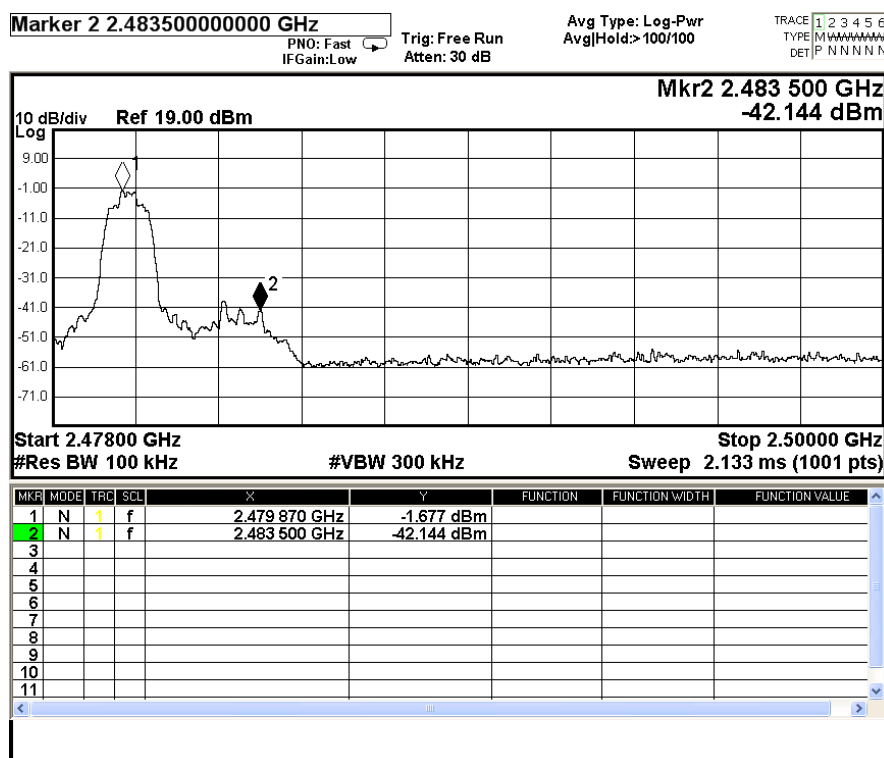
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Reference level	Limit	The highest conducted band edge emission	Result
[MHz]	[dBm]	[dBm]	[dBm]	
2483.5 - Highest Fundamental (2480)	-1.677	-21.677	-42.144	PASS

Band-edge Compliance of RF Emissions – Highest ($\pi/4$ DQPSK) (Hopping off)



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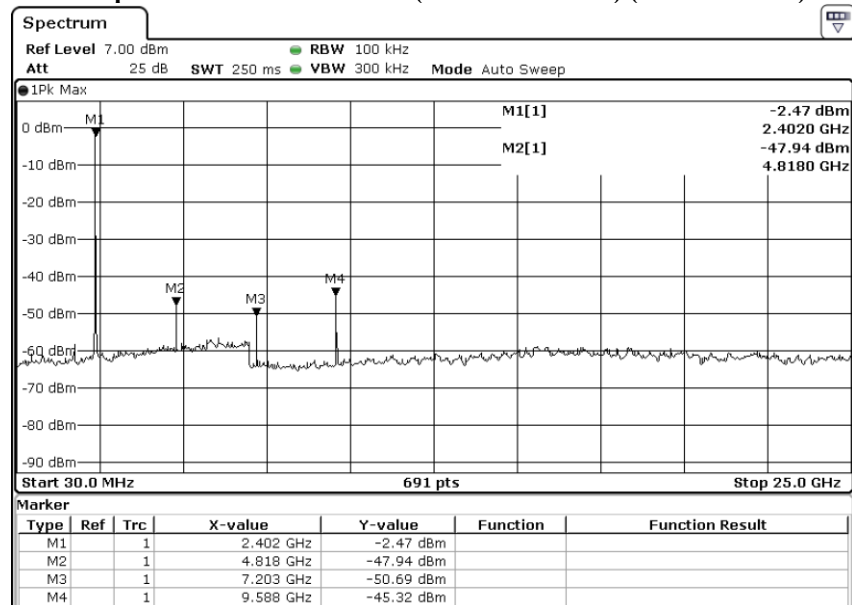
Compliance of RF Conducted Emissions Measurement:

Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

Remark: Emissions under the fixed frequency mode and hopping mode have been investigated, the worst-case measurement results were recorded in the test report

Compliance of RF Emissions – (GFSK 2402MHz) (the worst case)



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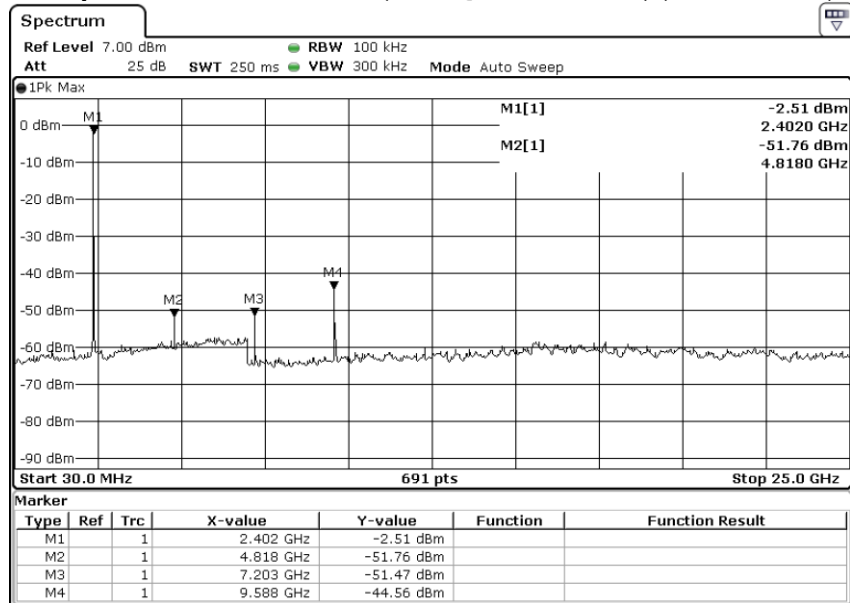


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Compliance of RF Emissions – ($\pi/4$ -DQPSK 2402MHz) (the worst case)



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3.1.8 Time of Occupancy (Dwell Time)

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Requirements:

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channel employed.

No requirements for Digital Transmission System.

Spectrum Analyzer Setting:

RBW = 300kHz, VBW ≥ RBW,

Sweep = A longer sweep time to show two successive hops on a channel,

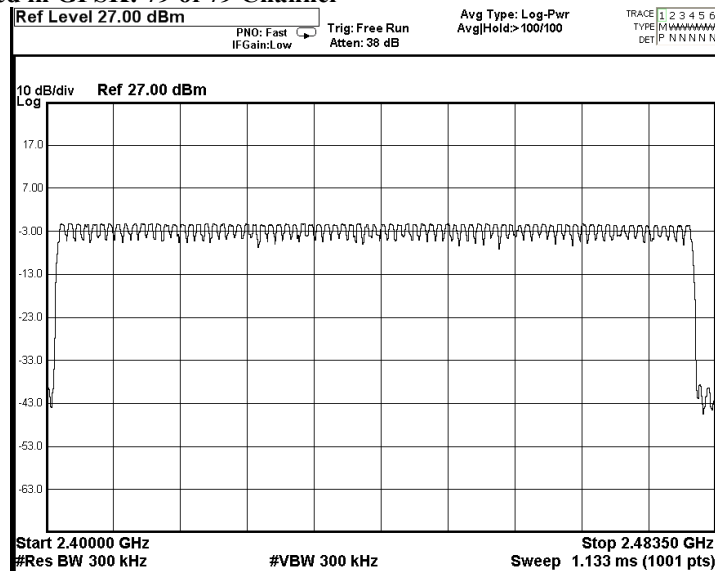
Span = Zero, Detector = Peak, Trace = Max. hold

Dwell Time = Pulse Duration * hop rate / number of channel * observation duration

Observed duration: 0.4s x 79 = 31.6s

Measurement Data:

Channel Occupied in GFSK: 79 of 79 Channel



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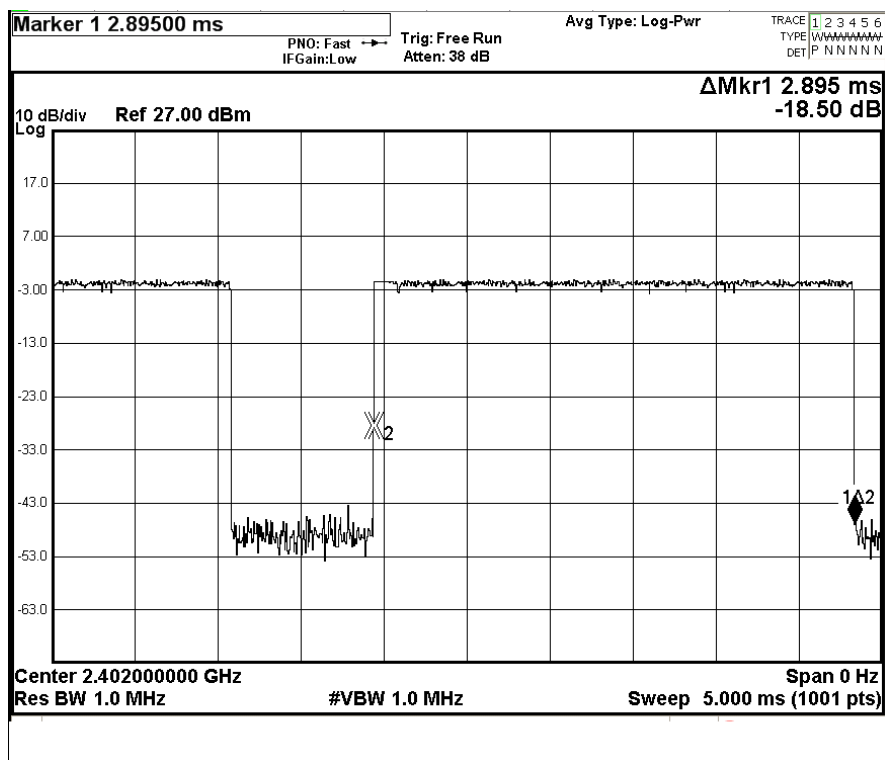
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2DH5 Packet:

2DH5 Packet permit maximum $1600/79/6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). The Dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds

Fig. A
[Pulse duration of Lowest Channel]



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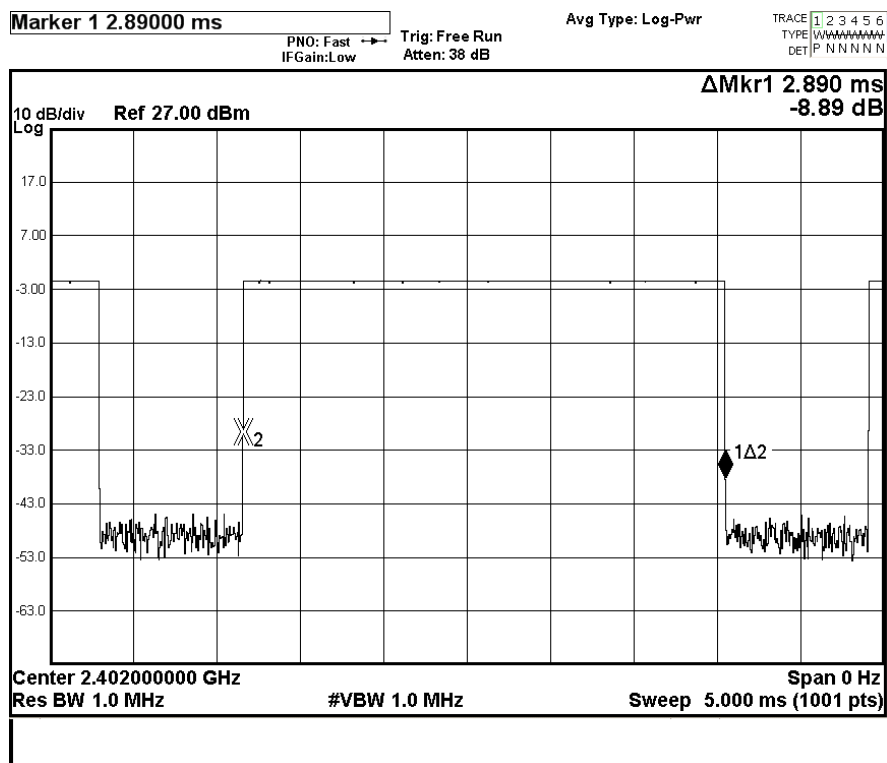
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DH5 Packet:

DH5 Packet permit maximum $1600/79/6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). The Dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds

Fig. A
[Pulse duration of Lowest Channel]



Time of occupancy (Dwell Time):

Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Results
2DH5	2402	2.895	0.30829	0.400	Complies
DH5	2402	2.890	0.30776	0.400	Complies

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3.1.9 Channel Centre Frequency

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Requirements:

Frequency hopping system in the 2400-2483.5MHz band shall use at least 79 (Channel 1 to 79) non-overlapping channels.

The EUT operates in according with the Bluetooth system specification within the 2400 - 2483.5 MHz frequency band.

RF channels for Bluetooth systems are spaced 1 MHz and are ordered in channel number k. In order to comply with out-of-band regulations, a lower frequency guard band of 2.0 MHz and a higher frequency guard band of 3.5MHz is used.

The operating frequencies of each channel are as follows:

First RF channel start from 2400MHz + 2MHz guard band = 2402MHz

Frequency of RF Channel = 2402+k MHz, k = 0,...,78 (Channel separation = 1MHz)

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3.1.10 Pseudorandom Hopping Algorithm

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Requirements:

The channel frequencies shall be selected from a pseudorandom ordered list of hopping frequencies. Each frequency must be used equally by the transmitter.

EUT Pseudorandom Hopping Algorithm

The EUT is a Bluetooth device, the Pseudo-random hopping pattern; hopping characteristics and algorithm are based on the Bluetooth specification.

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3.1.11 Antenna Requirement

Ambient Temperature: 25°C

Relative Humidity: 51%

Atmospheric Pressure: 101 kPa

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is PCB antenna. There is no external antenna, the antenna gain = 0.26dBi. User is unable to remove or changed the Antenna.

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDevice CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURN TABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2024-04-18	2029-04-18
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM293	SPECTRUM ANALYZER	AGILENT TECHNOLOGIES	N9020A	MY50510152	2024-11-07	2026-11-07
EM363	SIGNAL ANALYZER(10HZ- 40GHZ)	R & S	FSV40	101231	2026-01-15	2028-01-15
EM299	BROADBAND HORN ANTENNA	ETS-LINDGREN	3115	00114120	2025-07-08	2028-07-08
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2025-07-14	2027-07-14
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2025-07-14	2027-07-14
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2025-02-12	2027-02-12
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2025-01-02	2027-01-02
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2023-08-02	2026-08-02
EM525	CABLE FOR ETS CHAMBER	SUHNER	N/A	N/A	2025-01-25	2027-01-25
EM529	MICROWAVE FREQUENCY CABLE	SUHNER	SUCOFLEX 104	238296	2025-01-27	2027-01-27

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM232	LISN	SCHAFFNER	NNB41	04/100082	2025-03-20	2027-03-20
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	2026-04-22	2027-04-22
EM179	IMPULSE LIMITER	R & S	ESH3-Z2	357.8810.52/54	2025-03-17	2027-03-17
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2022-02-06	2027-02-06
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

CM Corrective Maintenance
N/A Not Applicable
TBD To Be Determined

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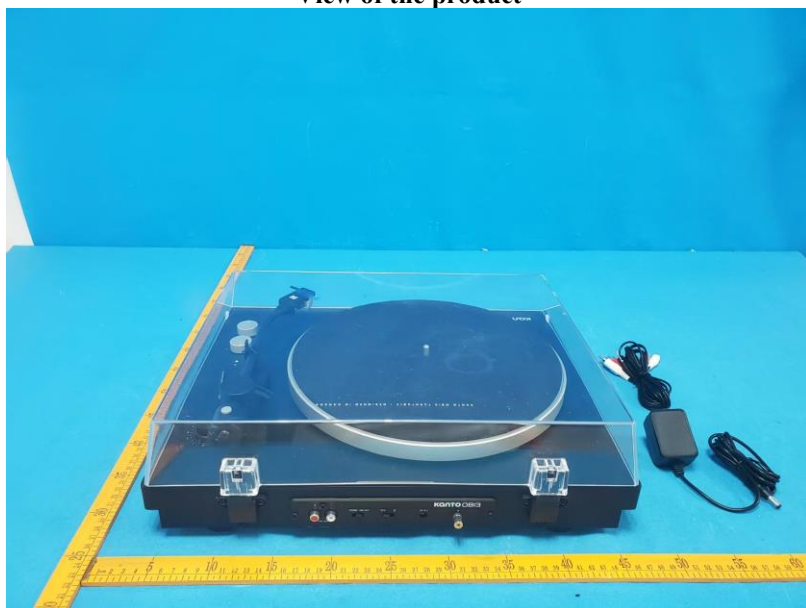
Appendix B

Photograph (S) Of Product

View of the product



View of the product



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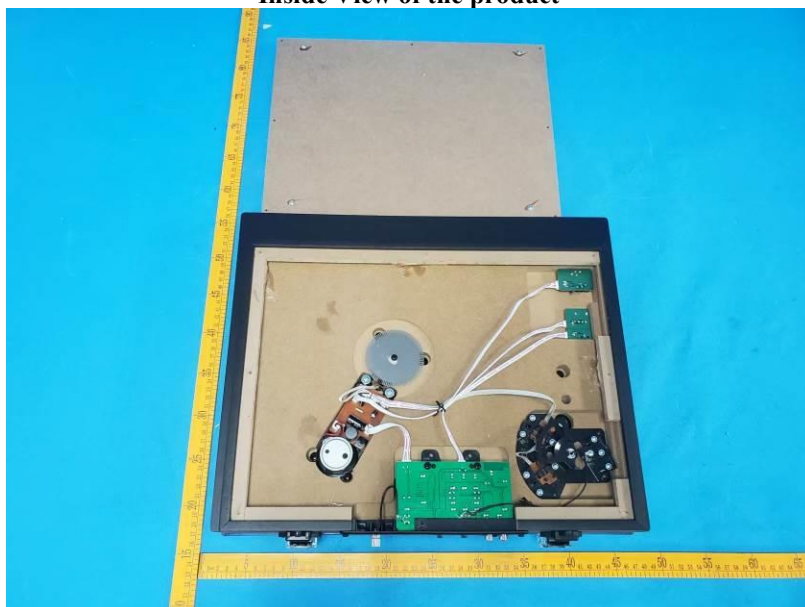
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View of adapter



Inside View of the product



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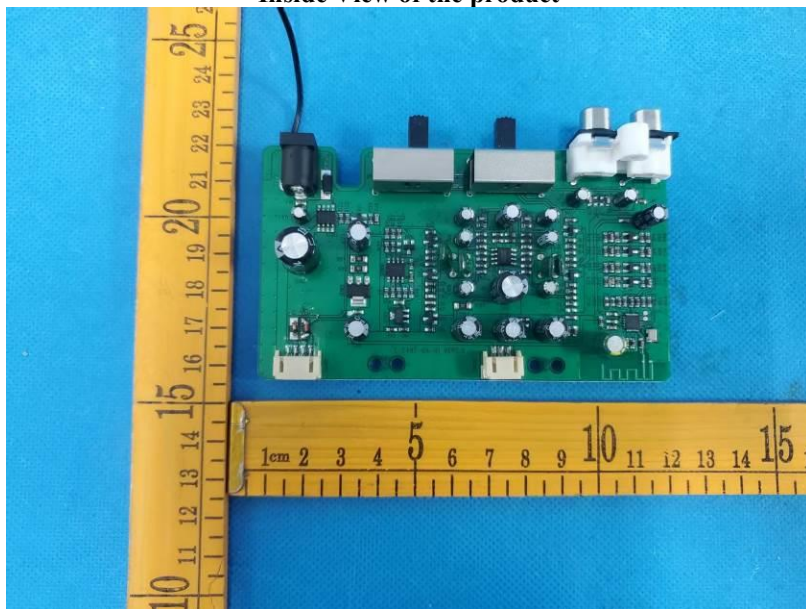
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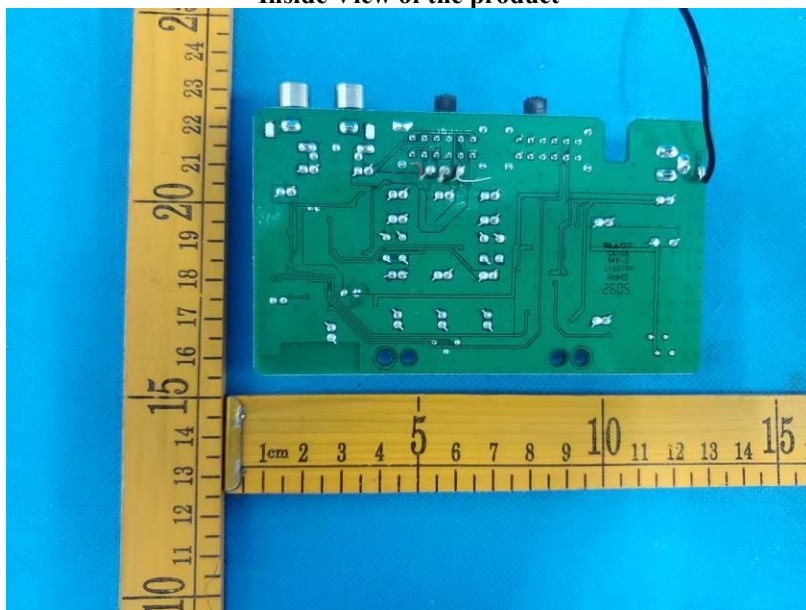
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Inside View of the product



Inside View of the product



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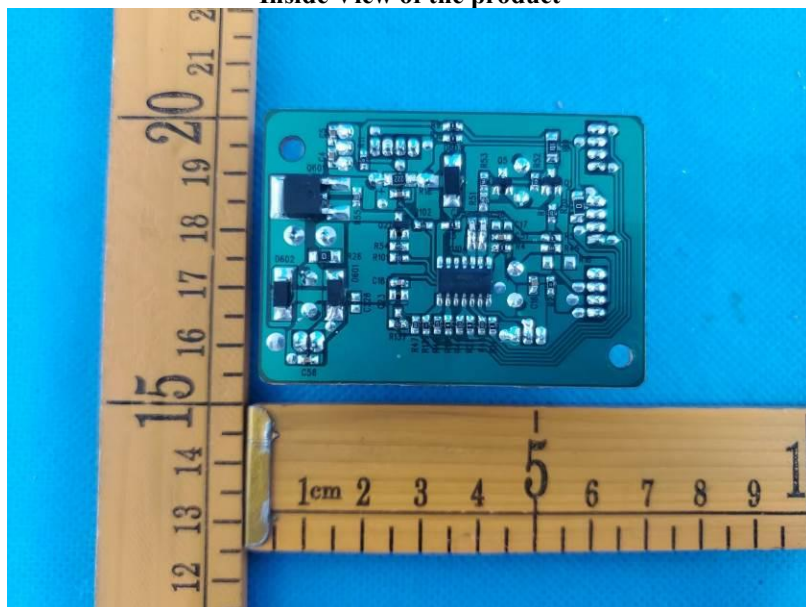
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Inside View of the product



Inside View of the product



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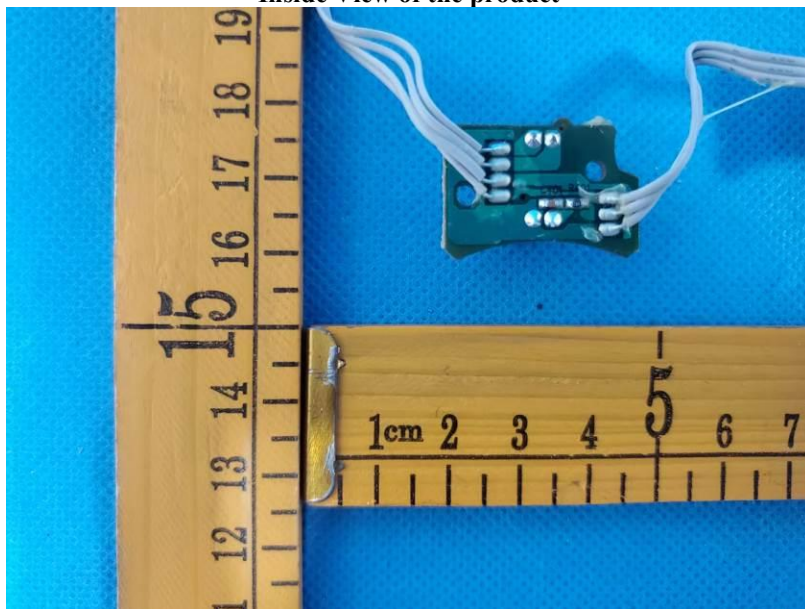
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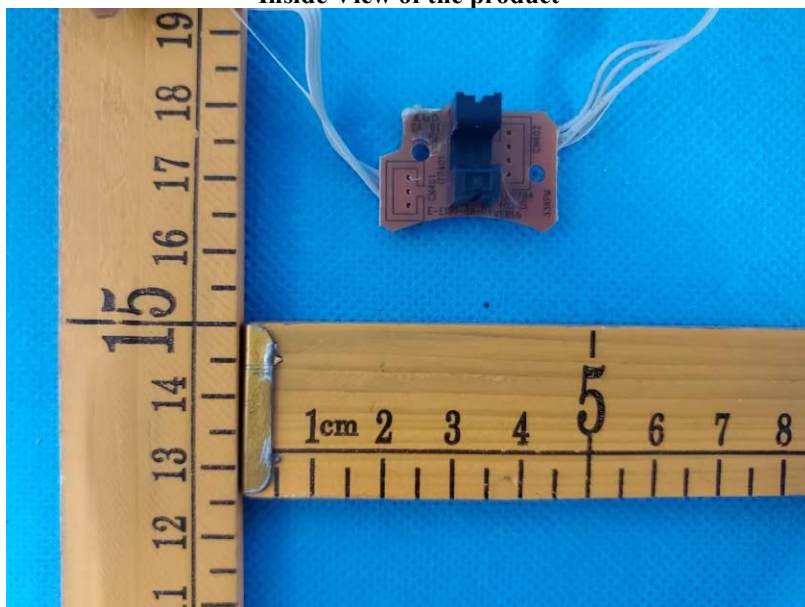
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Inside View of the product



Inside View of the product

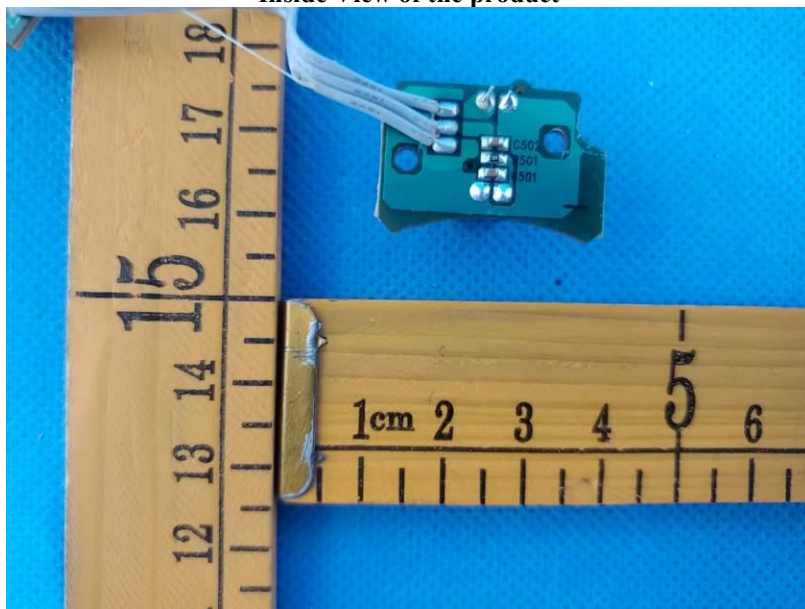


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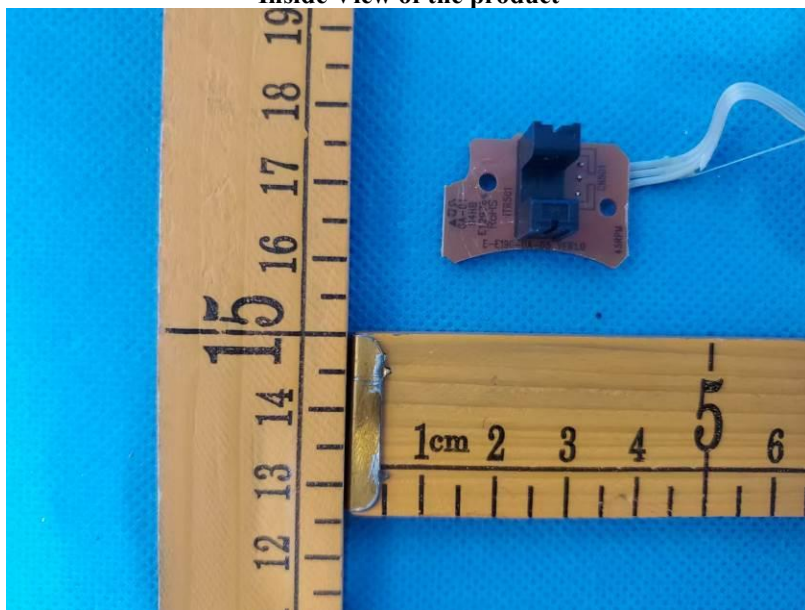
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Inside View of the product



Inside View of the product

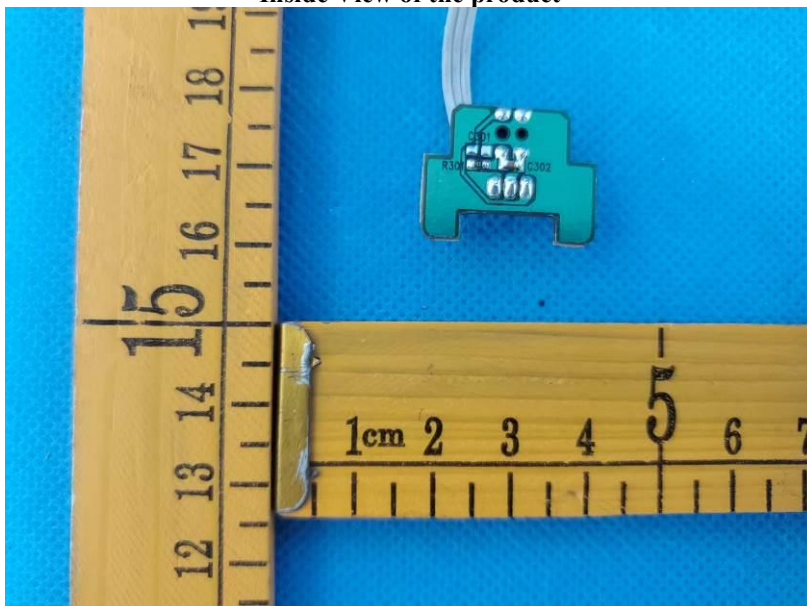


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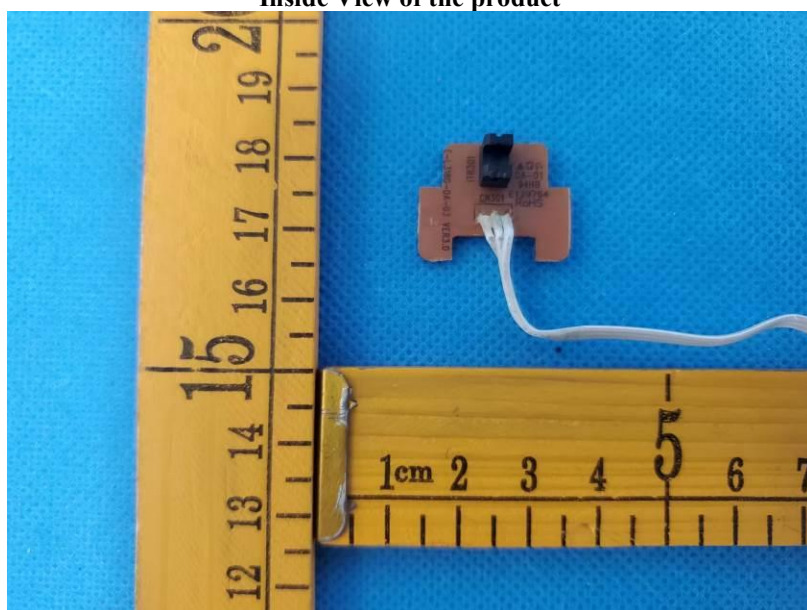
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Inside View of the product



Inside View of the product



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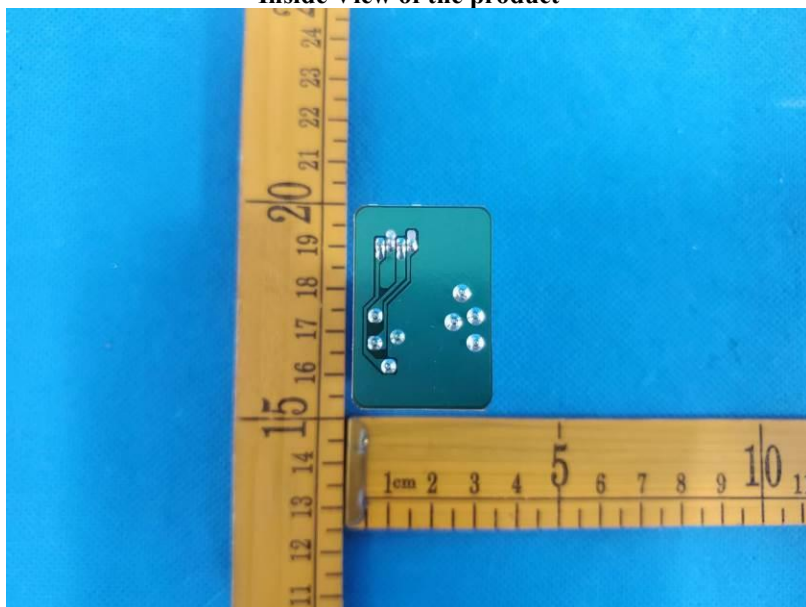
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Inside View of the product



Inside View of the product

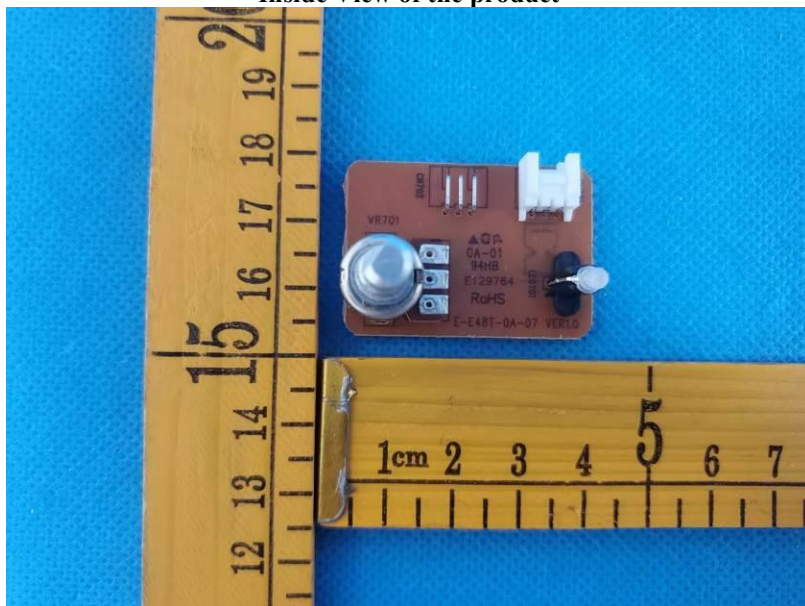


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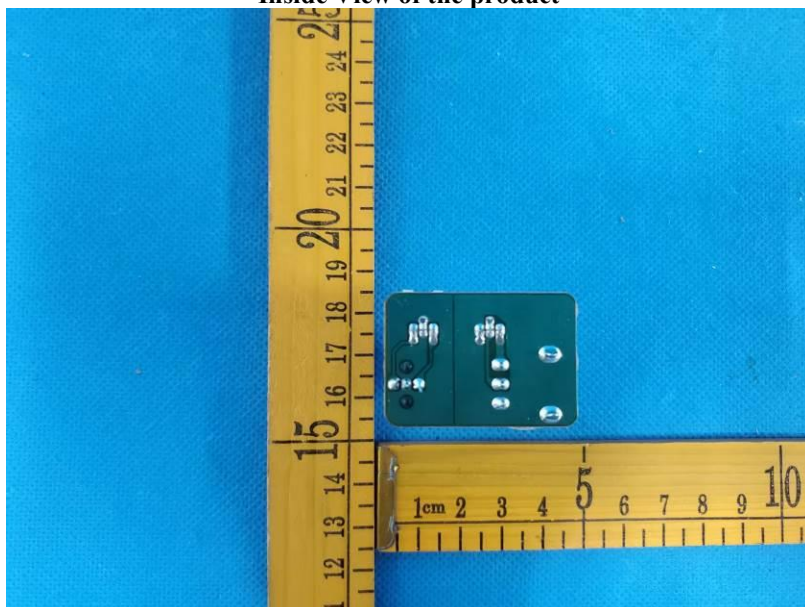
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Inside View of the product



Inside View of the product



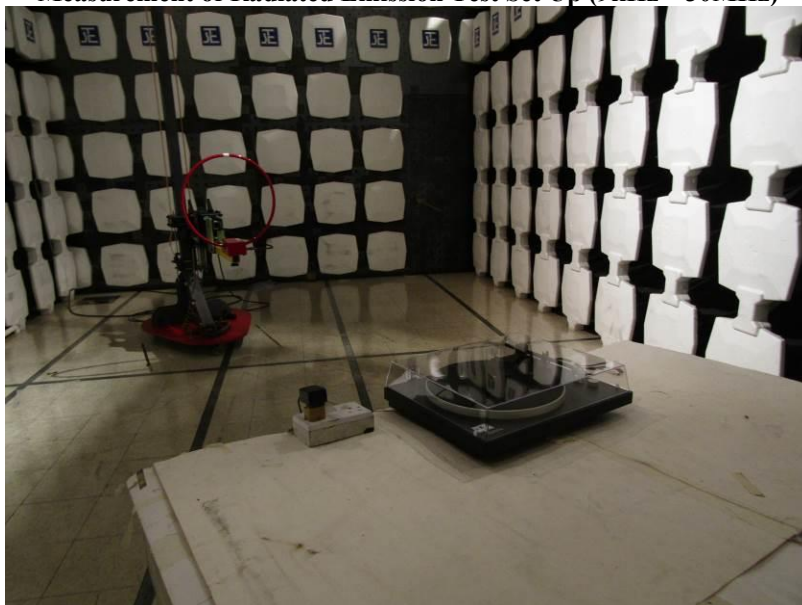
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Photographs of EUT

Measurement of Radiated Emission Test Set Up (9kHz – 30MHz)



Measurement of Radiated Emission Test Set Up (30MHz to 1000MHz)



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Measurement of Radiated Emission Test Set Up (Above 1000MHz)



Measurement of Conducted Emission Test Set Up



******* End of Test Report *******

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