
FCC Test Report

Report No.: AGC08218221002FE04

FCC ID : 2ASFYMM07MHINBL0001

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : WIRELESS MOUSE DONGLE

BRAND NAME : MAD CATZ

MODEL NAME : M.O.J.O. M2 DONGLE

APPLICANT : MAD CATZ GLOBAL LIMITED

DATE OF ISSUE : Oct. 21, 2022

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 21, 2022	Valid	Initial Release

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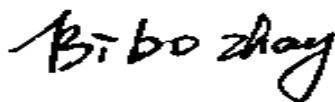
1. VERIFICATION OF COMPLIANCE

Applicant	MAD CATZ GLOBAL LIMITED
Address	FLAT/RM 507 5/F NEW TREASURE CENTRE 10 NG FONG STREET SAN PO KONG KL HONGKONG China
Manufacturer	MAD CATZ GLOBAL LIMITED
Address	FLAT/RM 507 5/F NEW TREASURE CENTRE 10 NG FONG STREET SAN PO KONG KL HONGKONG China
Factory	MAD CATZ GLOBAL LIMITED
Address	FLAT/RM 507 5/F NEW TREASURE CENTRE 10 NG FONG STREET SAN PO KONG KL HONGKONG China
Product Designation	WIRELESS MOUSE DONGLE
Brand Name	MAD CATZ
Test Model	M.O.J.O. M2 DONGLE
Date of receipt of test item	Oct. 14, 2022
Date of test	Oct. 14, 2022 to Oct. 21, 2022
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCTR-ER-FCC-RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By



Bibo Zhang
(Project Engineer)

Oct. 21, 2022

Reviewed By



Calvin Liu
(Reviewer)

Oct. 21, 2022

Approved By



Max Zhang
(Authorized Officer)

Oct. 21, 2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "WIRELESS MOUSE DONGLE". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.404GHz to 2.480GHz
RF Output Power	-6.764dBm (Max)
Modulation	GFSK
Number of channels	16 Channels
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	2.14dBi
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 5V by PC

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	00	2404 MHz
	01	2407 MHz
	02	2414 MHz
	03	2419 MHz
	04	2422 MHz
	05	2426 MHz
	06	2436 MHz
	07	2439 MHz
	08	2441 MHz
	09	2445 MHz
	10	2453 MHz
	11	2459 MHz
	12	2463 MHz
	13	2466 MHz
	14	2473 MHz
	15	2480 MHz

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2ASFYMM07MHINBL0001** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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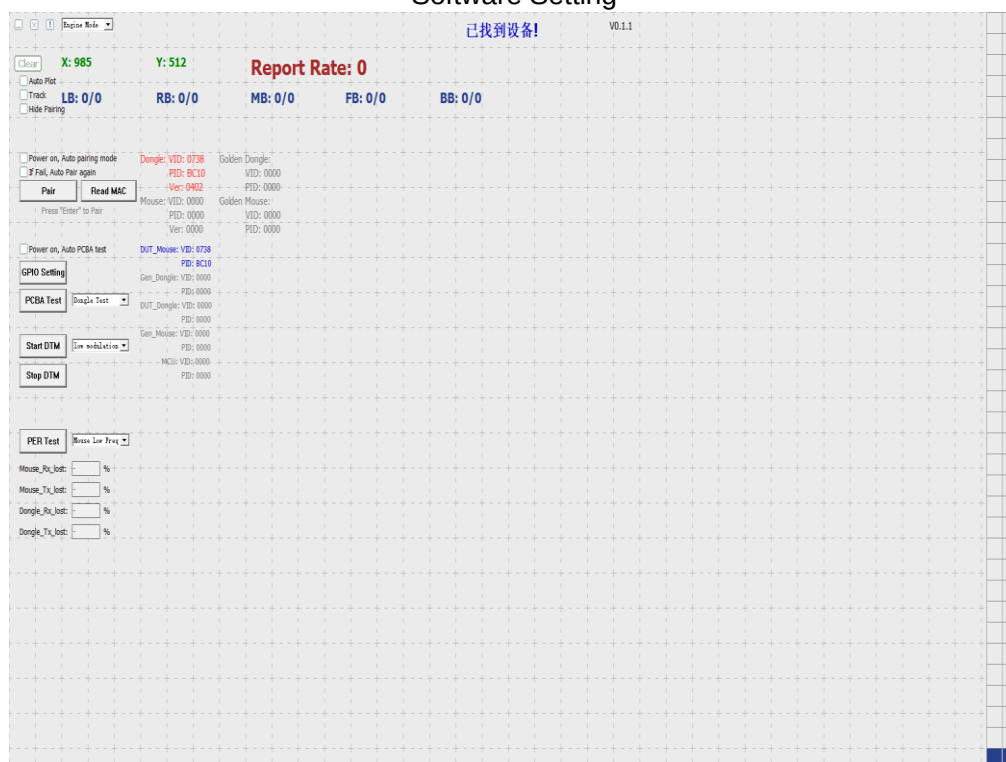
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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2404MHz_GFSK
2	Middle channel TX_2441MHz_GFSK
3	High channel TX_2480MHz_GFSK

- Note: 1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting



The screenshot displays a software interface with a top status bar showing '已找到设备!' (Device found!) and 'V0.1.1'. Below this, there are several sections for configuration and testing:

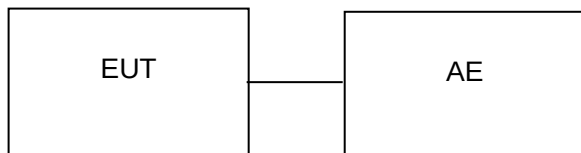
- Clear** button and status indicators: X: 985, Y: 512, Report Rate: 0.
- Auto Plot** section with checkboxes for **Track** and **Hide Pairing**. Below these are counters: LB: 0/0, RB: 0/0, MB: 0/0, FB: 0/0, BB: 0/0.
- Pairing** section with checkboxes for **Power on, Auto pairing mode** and **If Fail, Auto Pair again**. It includes **Pair** and **Read MAC** buttons, and a note: 'Press "Enter" to Pair'.
- PCBA Test** section with a **Dongle Test** dropdown menu. It lists parameters for **Dongle** (VID: 0738, PID: BC10, Ver: 0402) and **Golden Dongle** (VID: 0000, PID: 0000, Ver: 0000). It also lists parameters for **Mouse** (VID: 0000, PID: 0000, Ver: 0000) and **Golden Mouse** (VID: 0000, PID: 0000, Ver: 0000).
- Start OTM** and **Stop OTM** buttons.
- PER Test** section with a **Mouse Low Test** dropdown menu and four input fields for **Mouse_Rx_test**, **Mouse_Tx_test**, **Dongle_Rx_test**, and **Dongle_Tx_test**, each followed by a '%' symbol.

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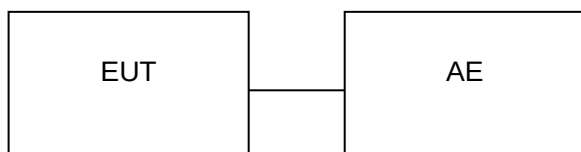
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WIRELESS MOUSE DONGLE	M.O.J.O. M2 DONGLE	2ASFYMM07MHINBL0001	EUT
2	Adapter	XMA2002-AB	N/A	AE
3	PC Adapter	AD651	DC 5V	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	Mar. 28, 2022	Mar. 27, 2023
Artificial power network	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test Software	FARA	EZ-EMC(Ver. AGC-CON03A1)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A

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7. PEAK OUTPUT POWER

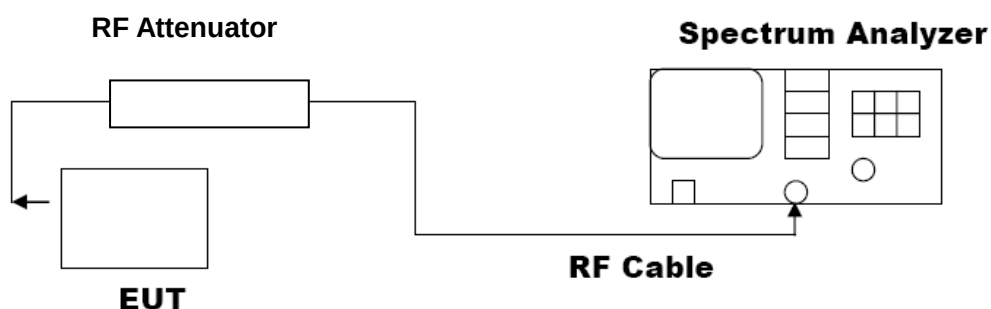
7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. $RBW \geq DTS$ bandwidth.
3. $VBW \geq 3 \times RBW$.
4. $SPAN \geq VBW$.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK	2404	-7.175	≤ 30	Pass
	2441	-7.039	≤ 30	Pass
	2480	-6.764	≤ 30	Pass

Test Graphs of Conducted Output Power



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Test_Graph_GFSK_ANT1_2441_Peak Power



Test_Graph_GFSK_ANT1_2480_Peak Power

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

6dB bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Occupied bandwidth:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK	2404	1.618	1.038	≥ 0.5	Pass
	2441	1.854	1.064	≥ 0.5	Pass
	2480	1.726	1.089	≥ 0.5	Pass

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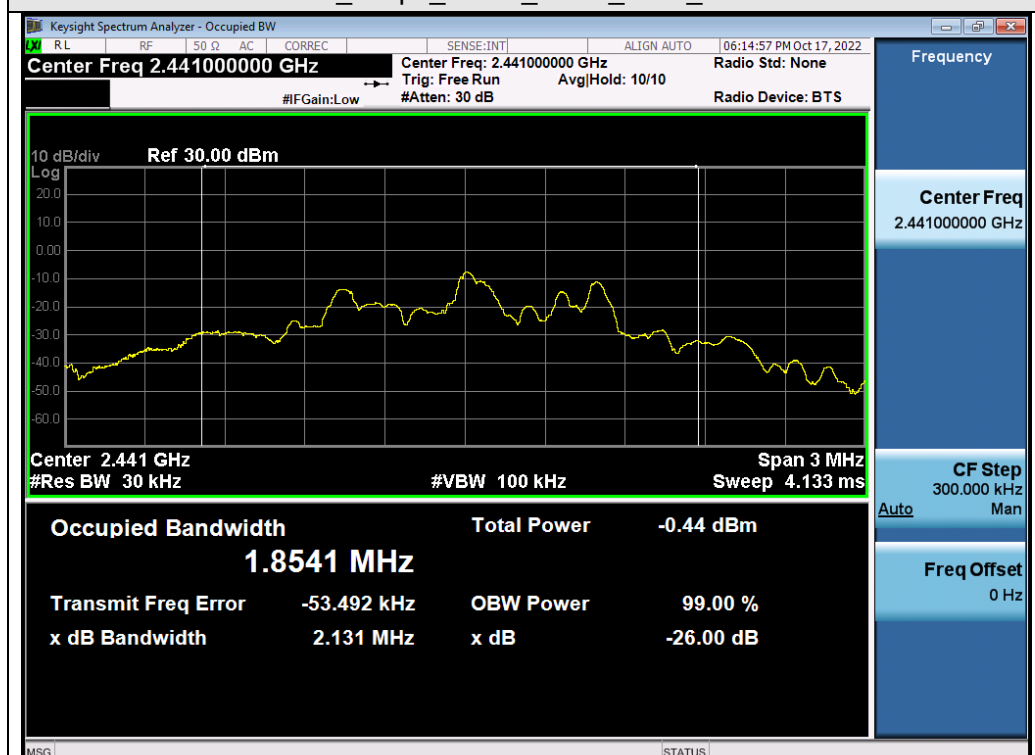
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Test Graphs of Occupied Bandwidth



Test_Graph_GFSK_ANT1_2404_OBW



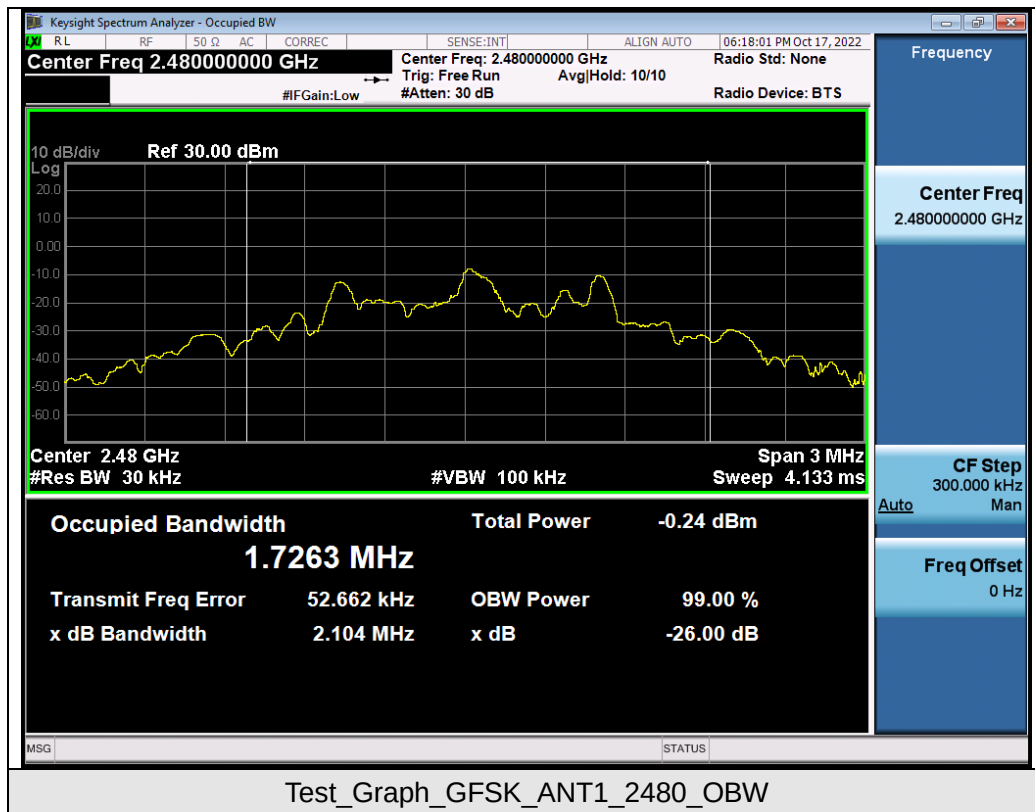
Test_Graph_GFSK_ANT1_2441_OBW

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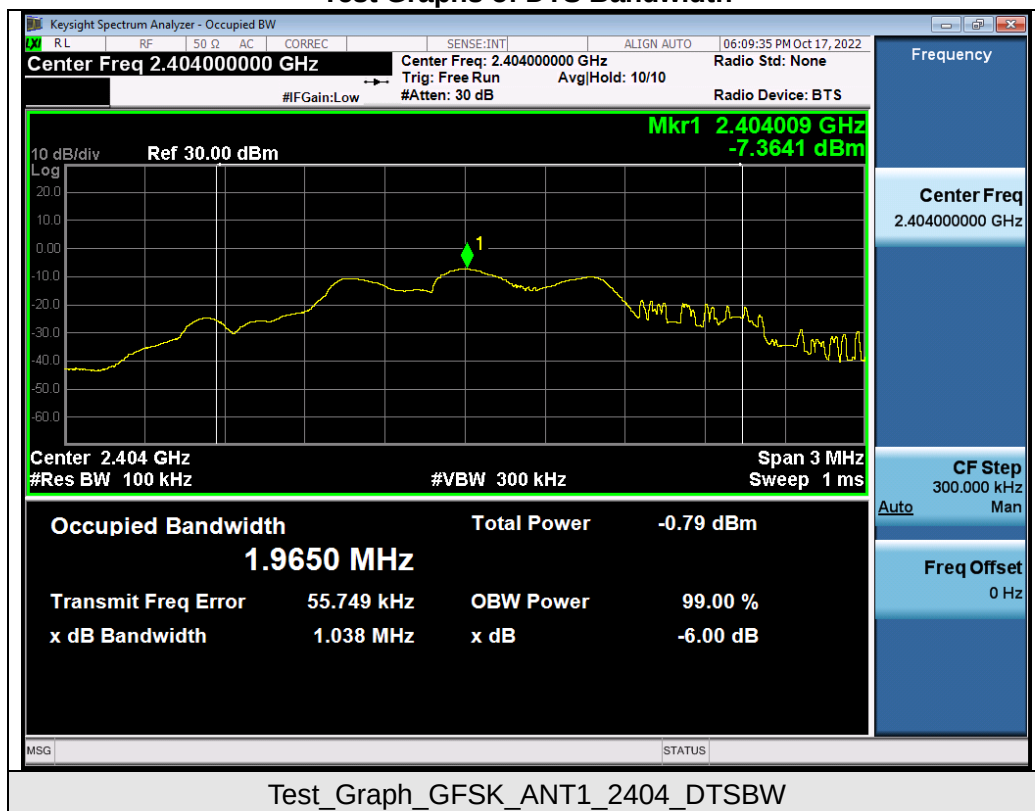
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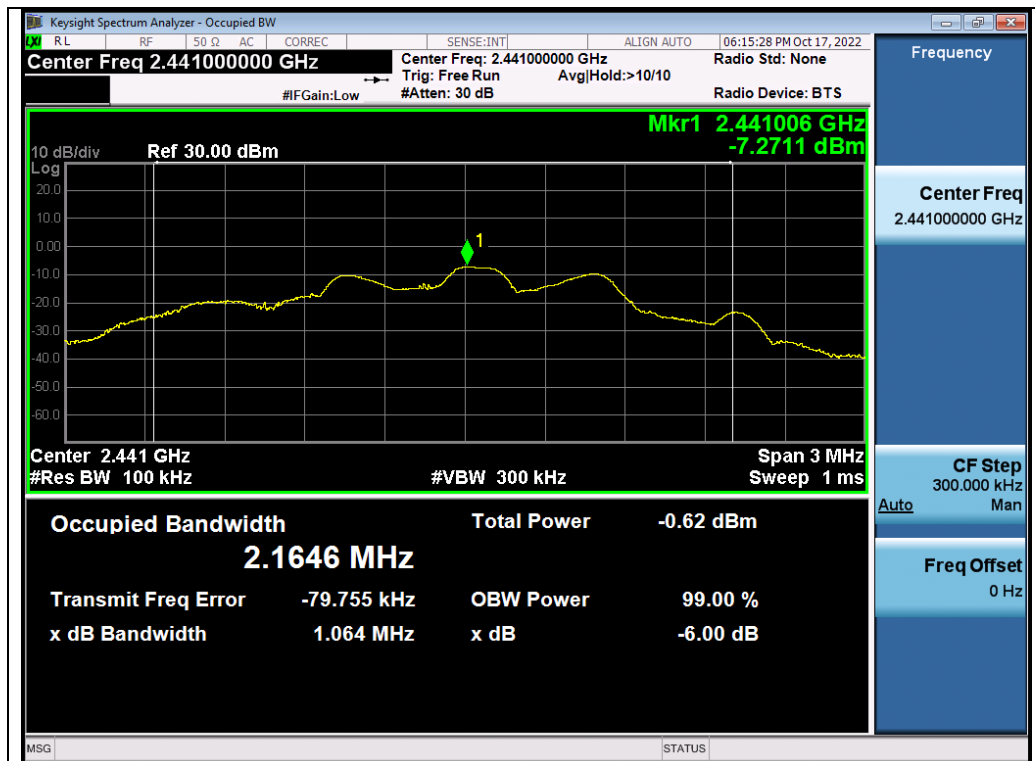
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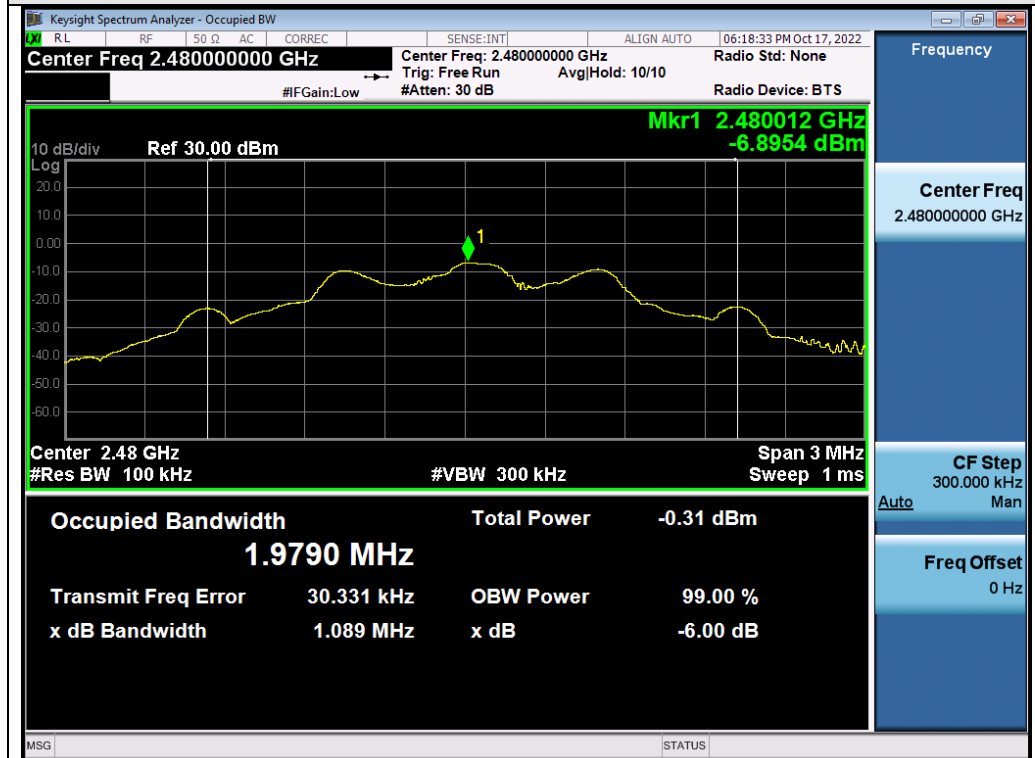
Test Graphs of DTS Bandwidth



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Test_Graph_GFSK_ANT1_2441_DTSBW



Test_Graph_GFSK_ANT1_2480_DTSBW

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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS

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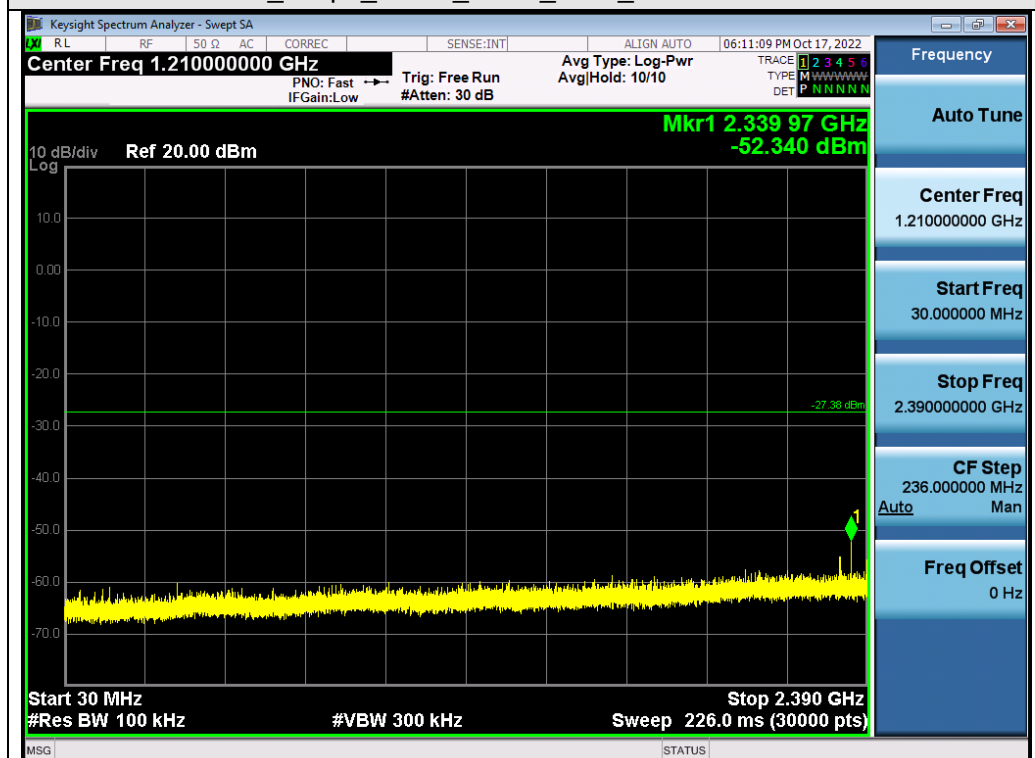
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Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

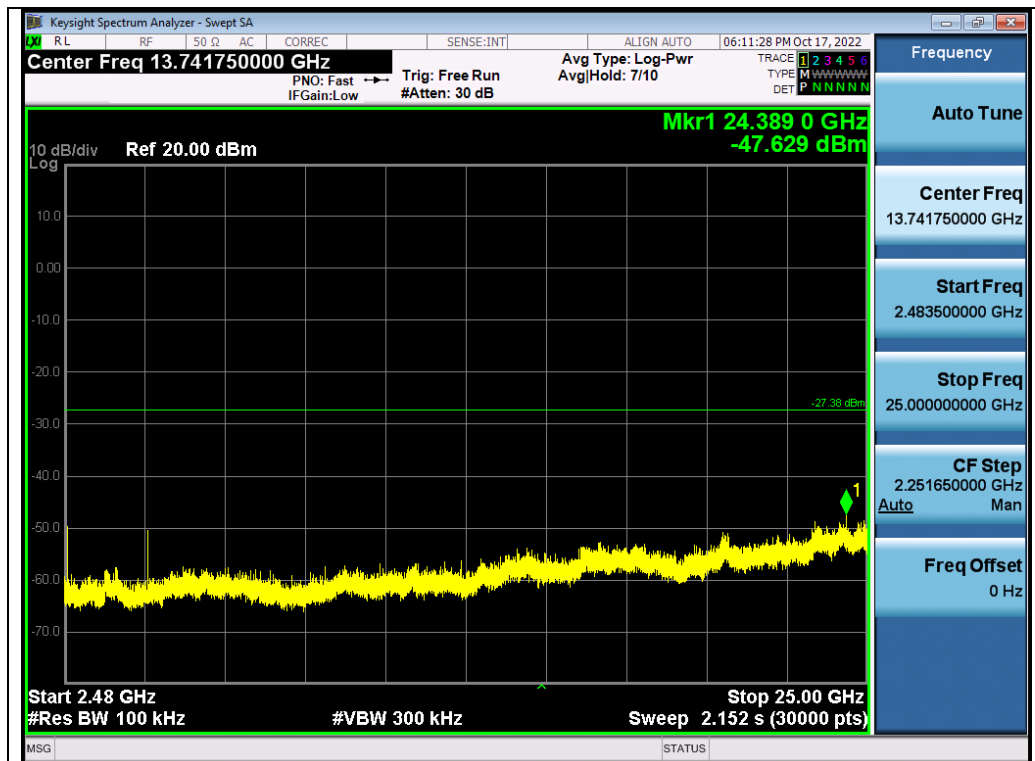


Test_Graph_GFSK_ANT1_2404_Reference Level



Test_Graph_GFSK_ANT1_2404_Lower Band Emissions

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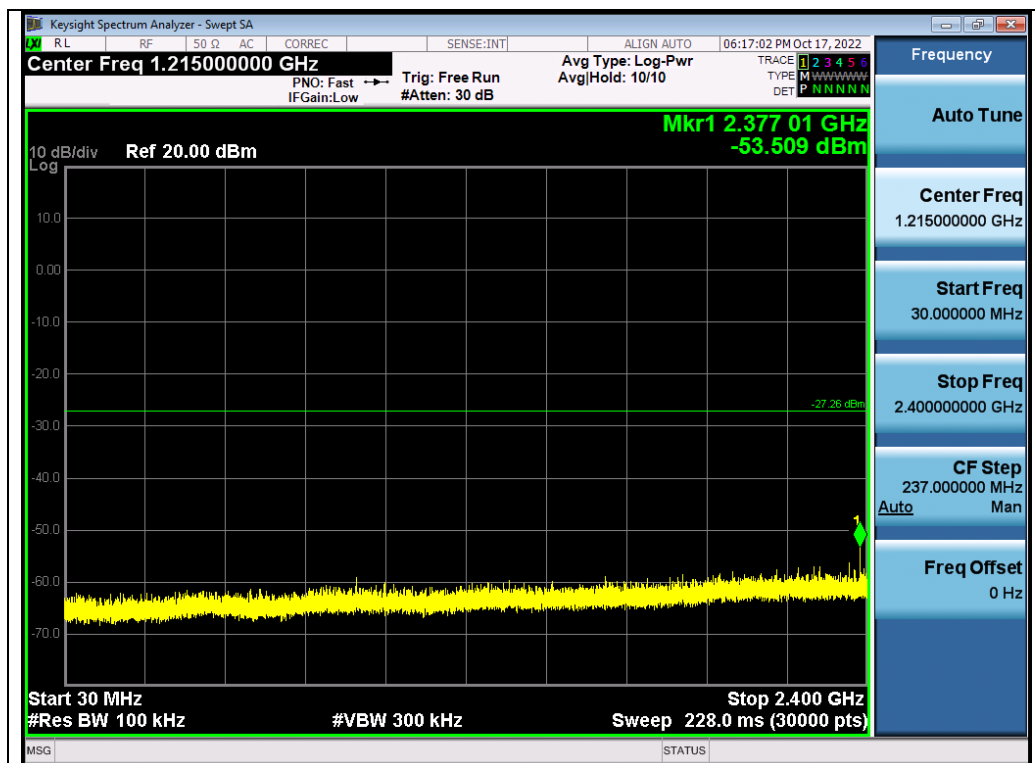


Test_Graph_GFSK_ANT1_2404_Higher Band Emissions

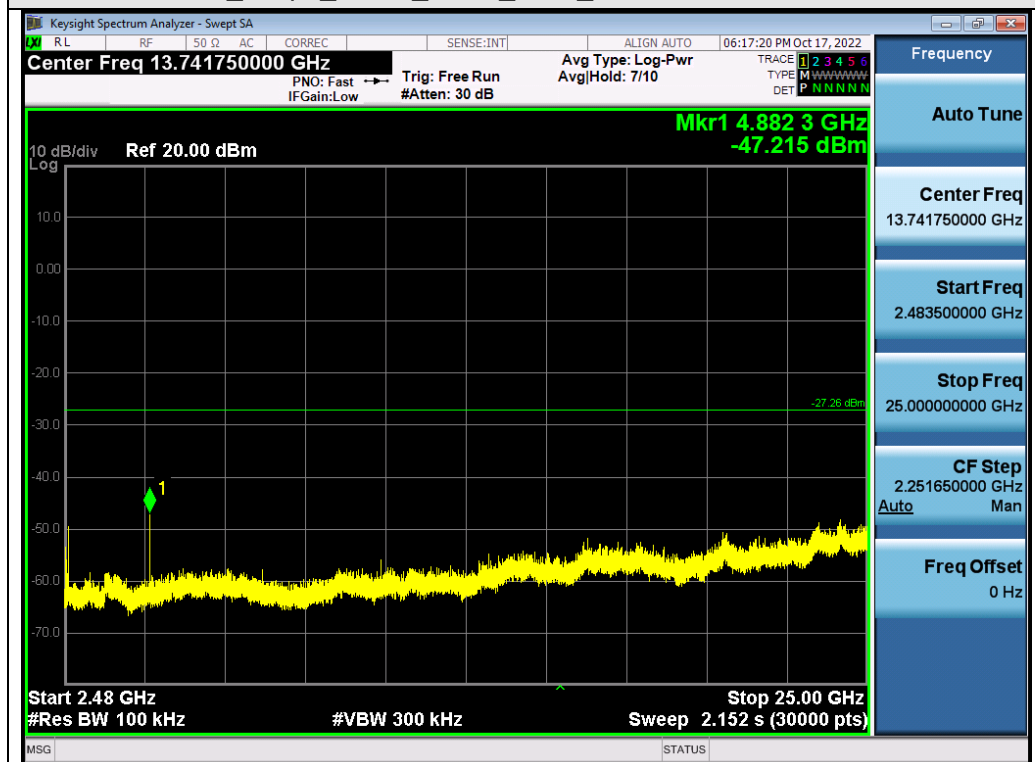


Test_Graph_GFSK_ANT1_2441_Reference Level

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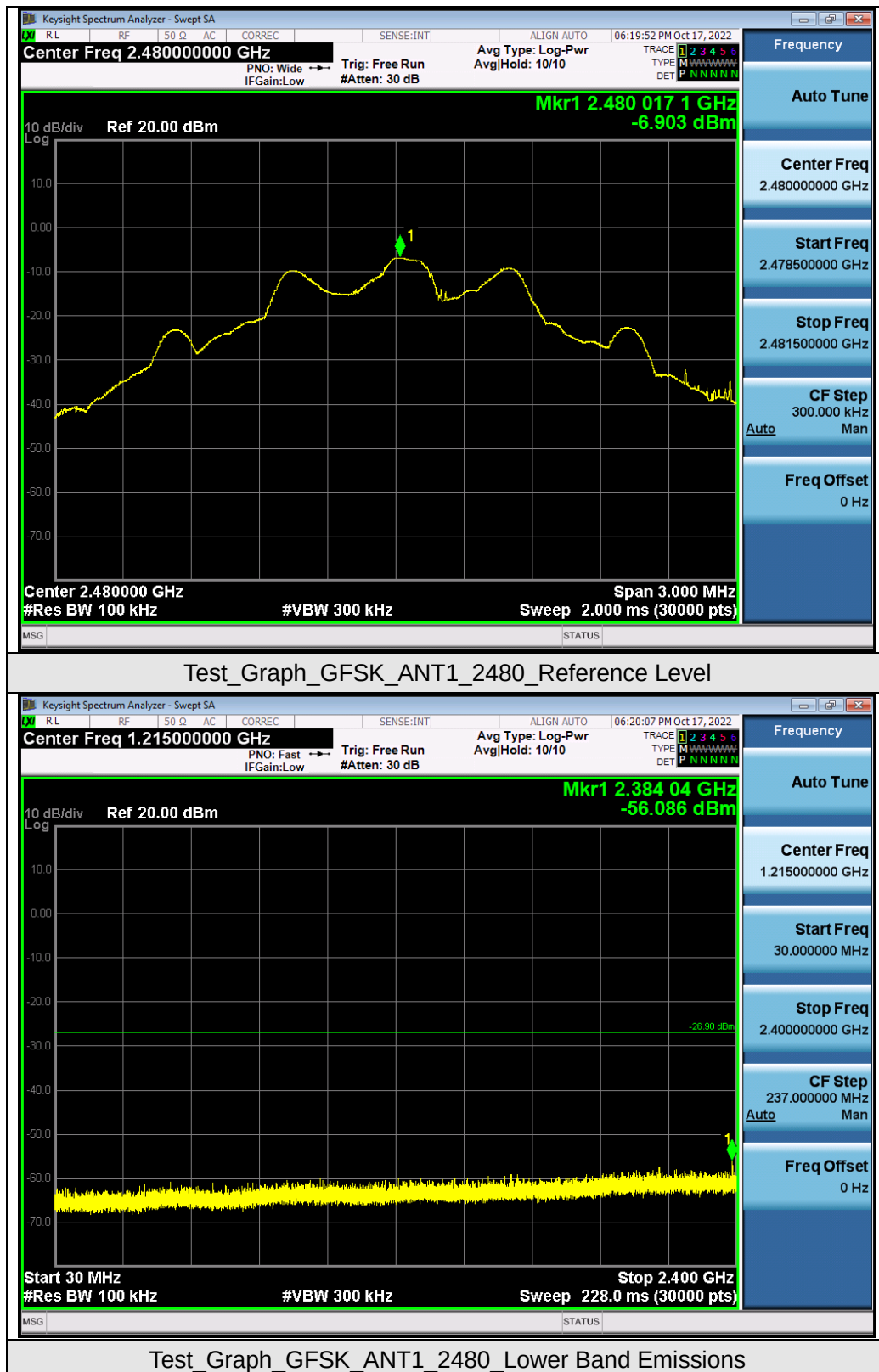


Test_Graph_GFSK_ANT1_2441_Lower Band Emissions

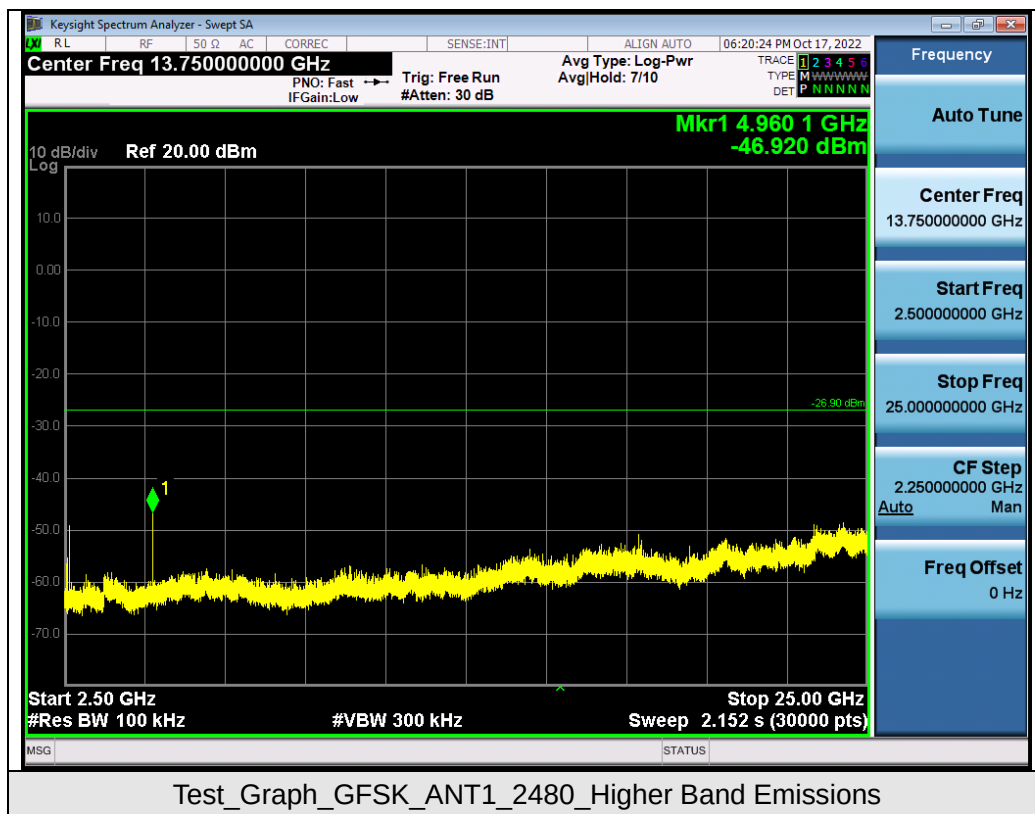


Test_Graph_GFSK_ANT1_2441_Higher Band Emissions

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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Test_Graph_GFSK_ANT1_2404_Lower Band Edge Emissions



Test_Graph_GFSK_ANT1_2480_Higher Band Edge Emissions

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK	2404	-20.998	≤ 8	Pass
	2441	-20.110	≤ 8	Pass
	2480	-20.201	≤ 8	Pass

Test Graphs of Conducted Output Power Spectral Density



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Test_Graph_GFSK_ANT1_2441_PSD



Test_Graph_GFSK_ANT1_2480_PSD

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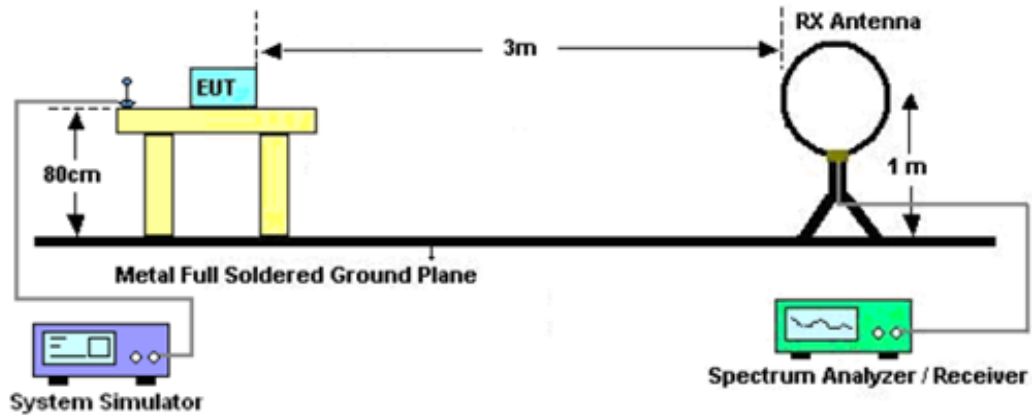
11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

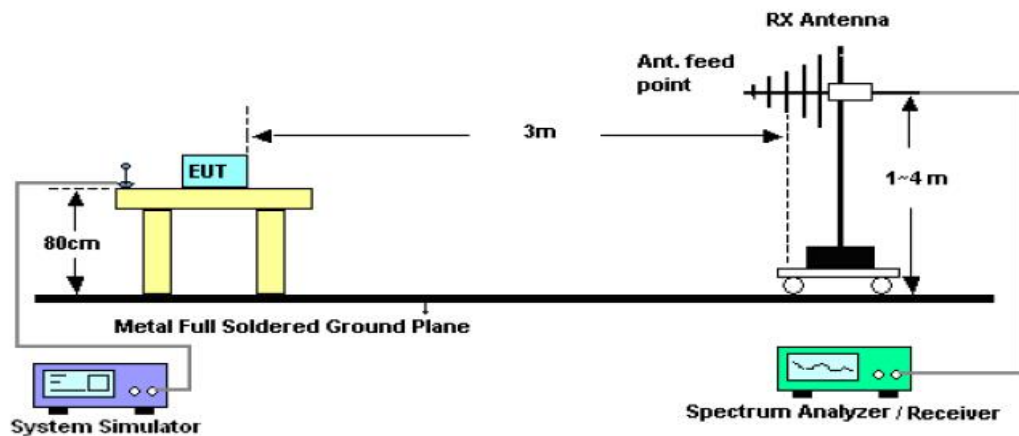
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

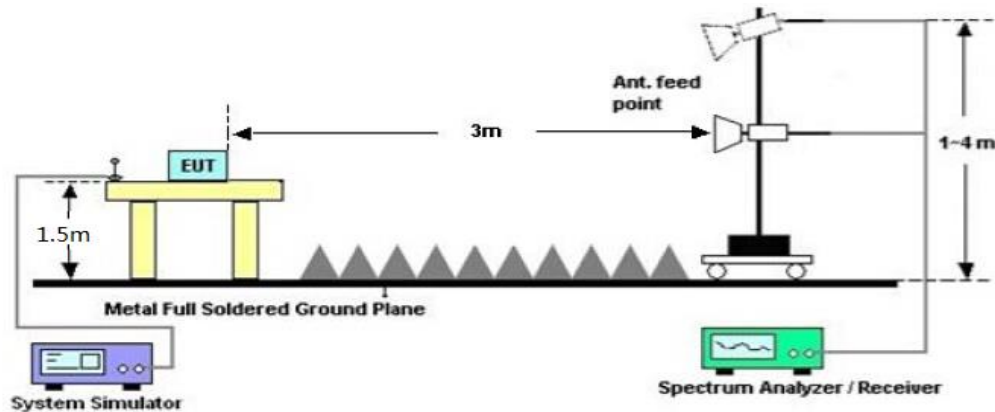
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. 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.

11.4. 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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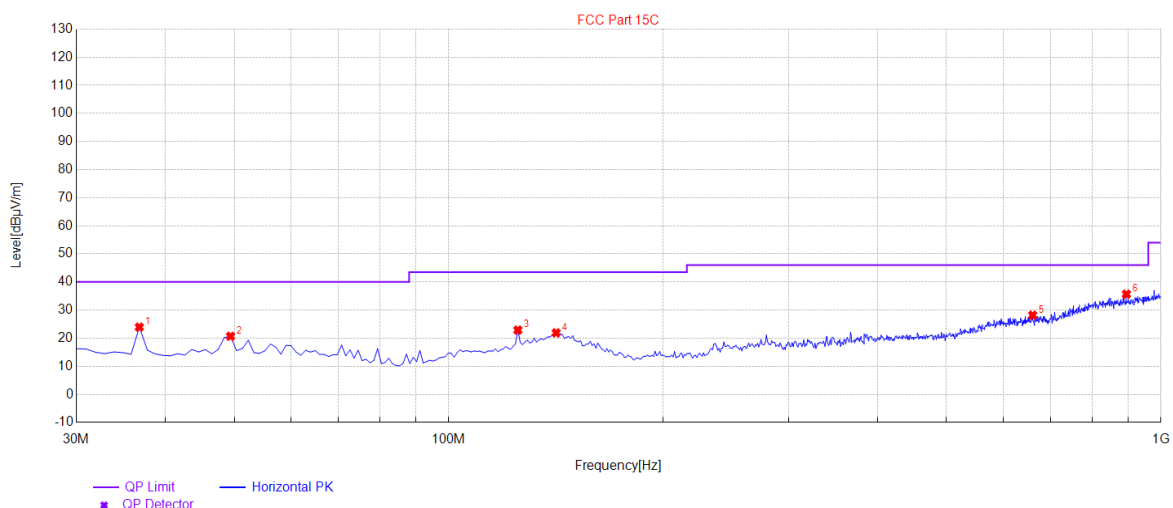
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Radiated emission from 30MHz to 1000MHz

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	23.92	10.73	40.00	16.08	100	40	Horizontal
2	49.4	20.67	11.61	40.00	19.33	100	160	Horizontal
3	125.06	22.88	14.57	43.50	20.62	100	80	Horizontal
4	141.55	21.90	17.65	43.50	21.60	100	30	Horizontal
5	660.5	28.18	23.53	46.00	17.82	100	160	Horizontal
6	894.27	35.66	30.61	46.00	10.34	100	160	Horizontal

RESULT: PASS

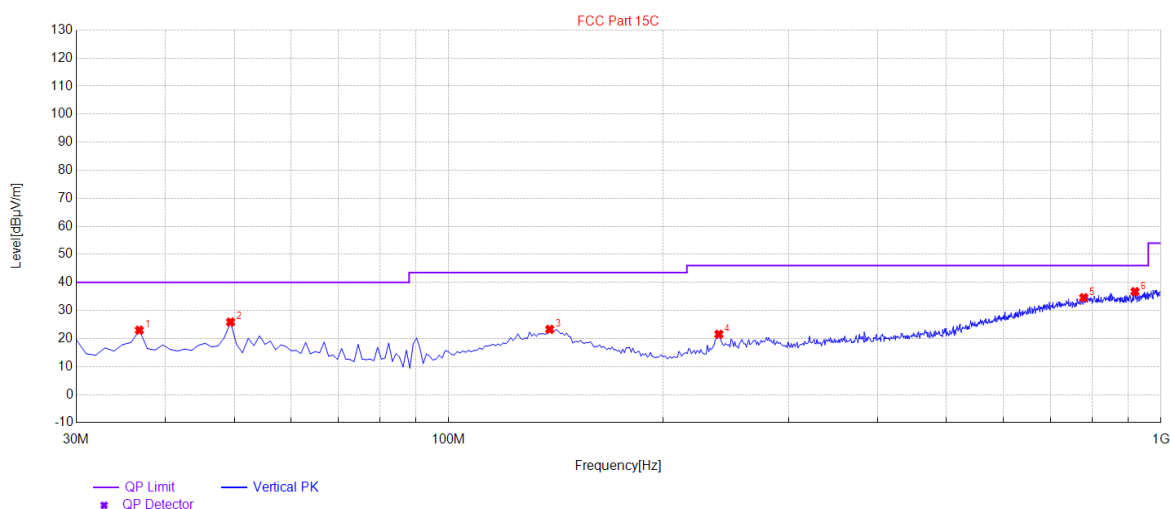
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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	22.97	10.73	40.00	17.03	100	210	Vertical
2	49.4	25.87	11.61	40.00	14.13	100	190	Vertical
3	138.64	23.28	19.58	43.50	20.22	100	40	Vertical
4	239.52	21.51	13.64	46.00	24.49	100	270	Vertical
5	778.84	34.55	30.94	46.00	11.45	100	180	Vertical
6	919.49	36.72	32.08	46.00	9.28	100	260	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	48.24	0.08	48.32	74	-25.68	peak
4804.000	36.27	0.08	36.35	54	-17.65	AVG
7206.000	41.74	2.21	43.95	74	-30.05	peak
7206.000	30.86	2.21	33.07	54	-20.93	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	46.53	0.08	46.61	74	-27.39	peak
4804.000	34.79	0.08	34.87	54	-19.13	AVG
7206.000	40.36	2.21	42.57	74	-31.43	peak
7206.000	28.77	2.21	30.98	54	-23.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	47.94	0.14	48.08	74	-25.92	peak
4880.000	38.24	0.14	38.38	54	-15.62	AVG
7320.000	40.65	2.36	43.01	74	-30.99	peak
7320.000	32.48	2.36	34.84	54	-19.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	46.32	0.14	46.46	74	-27.54	peak
4880.000	37.74	0.14	37.88	54	-16.12	AVG
7320.000	40.17	2.36	42.53	74	-31.47	peak
7320.000	31.56	2.36	33.92	54	-20.08	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	48.76	0.22	48.98	74	-25.02	peak
4960.000	37.05	0.22	37.27	54	-16.73	AVG
7440.000	42.91	2.64	45.55	74	-28.45	peak
7440.000	32.44	2.64	35.08	54	-18.92	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	22°C	Relative Humidity	53%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	46.96	0.22	47.18	74	-26.82	peak
4960.000	36.25	0.22	36.47	54	-17.53	AVG
7440.000	40.34	2.64	42.98	74	-31.02	peak
7440.000	30.75	2.64	33.39	54	-20.61	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=Emission Level-Limit.

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

Test result for band edge emission at restricted bands

EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	25°C	Relative Humidity	56%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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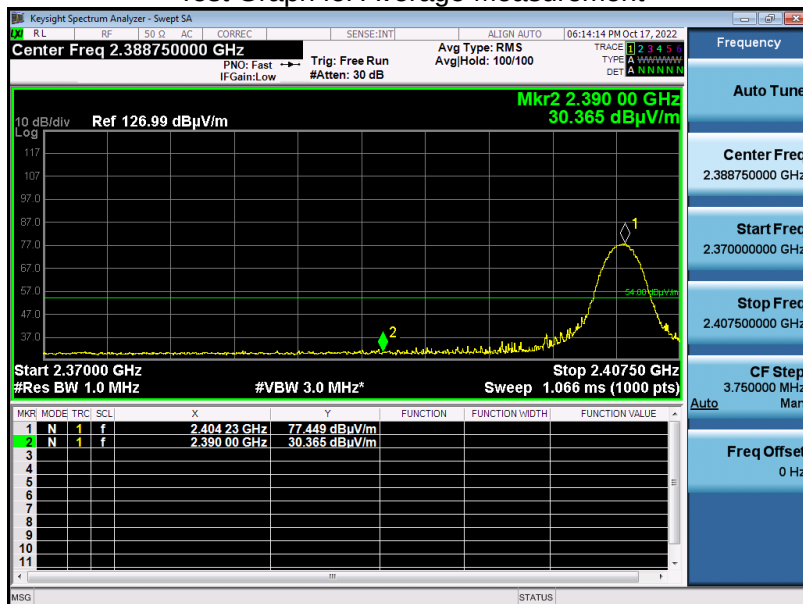
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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	25°C	Relative Humidity	56%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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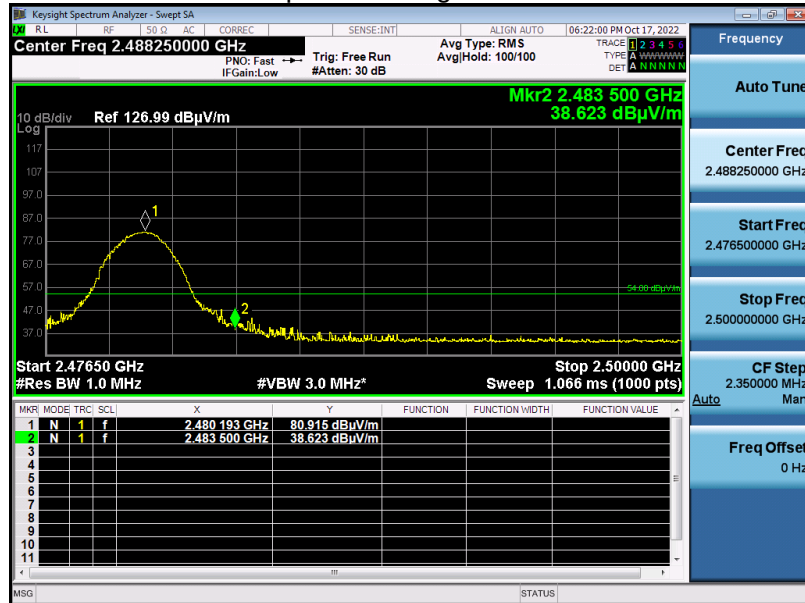
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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	25°C	Relative Humidity	56%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



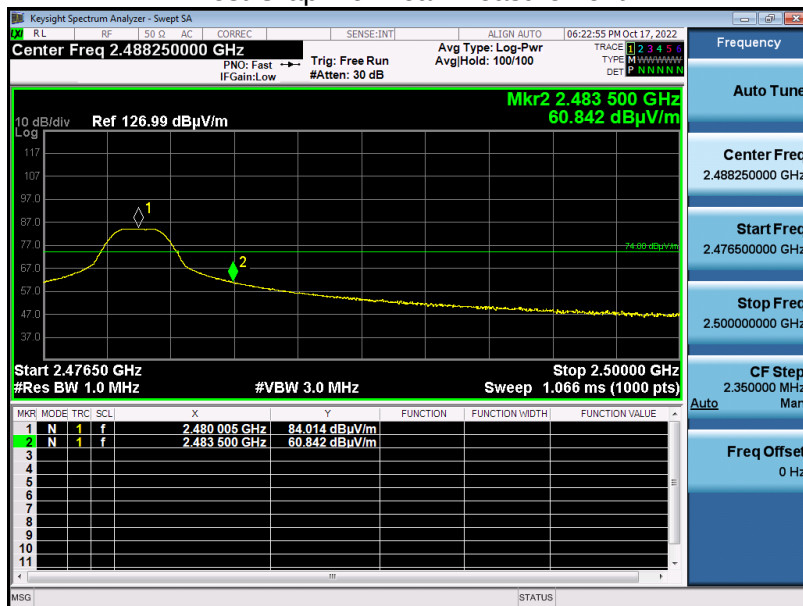
RESULT: PASS

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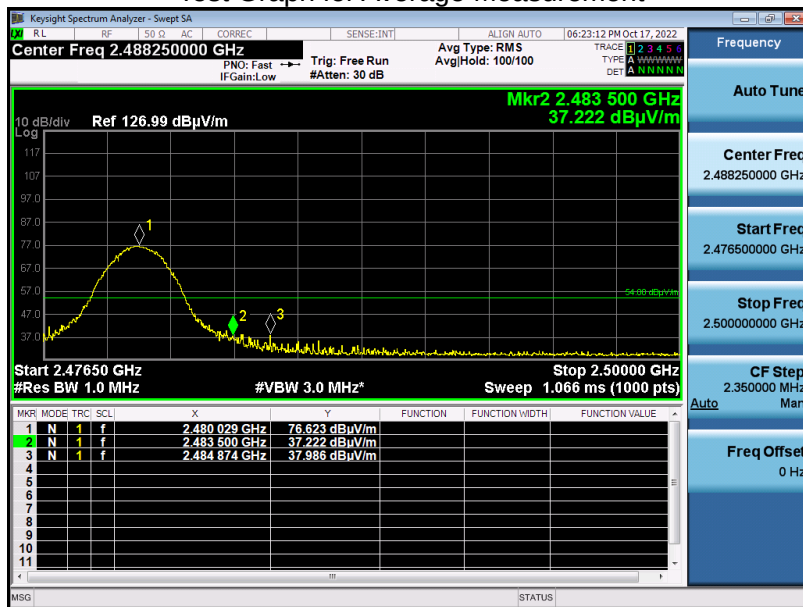
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EUT	WIRELESS MOUSE DONGLE	Model Name	M.O.J.O. M2 DONGLE
Temperature	25°C	Relative Humidity	56%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

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.

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12. LINE CONDUCTED EMISSION TEST

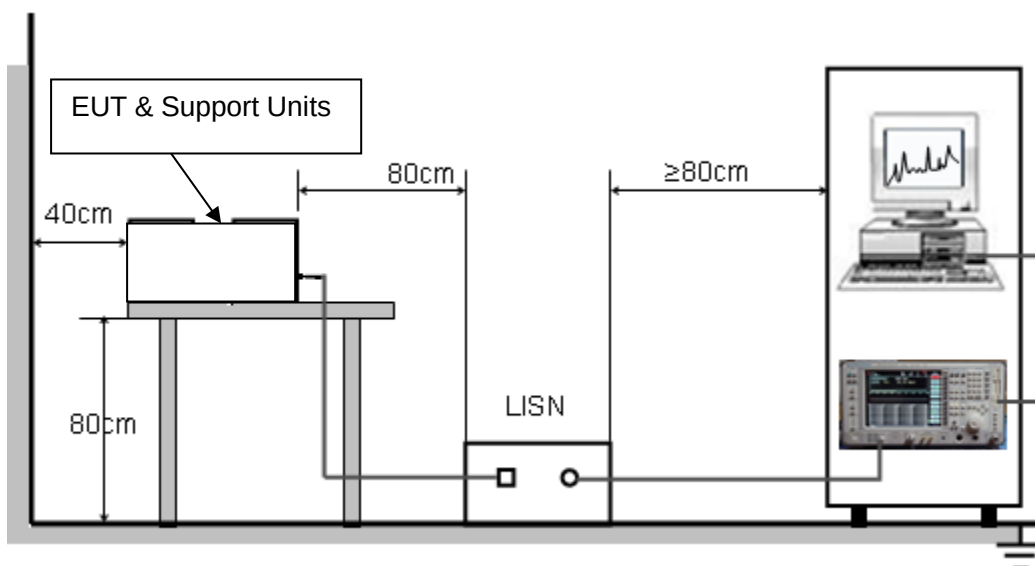
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

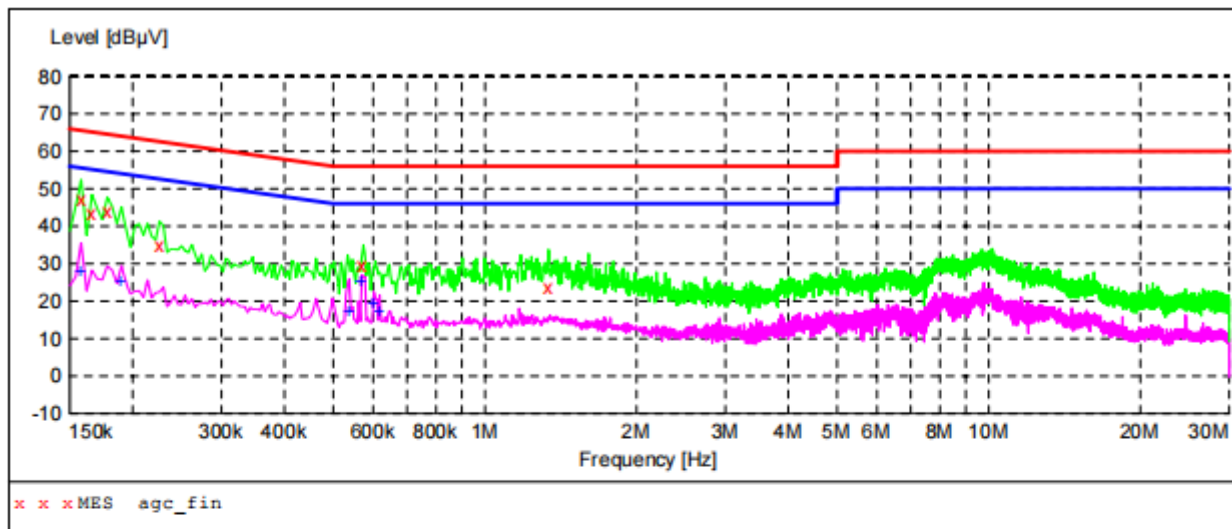
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "agc_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	47.10	6.8	66	18.5	QP	L1	GND
0.166000	43.30	6.8	65	21.9	QP	L1	GND
0.178000	43.90	6.7	65	20.7	QP	L1	GND
0.226000	34.70	6.4	63	27.9	QP	L1	GND
0.574000	29.30	5.4	56	26.7	QP	L1	GND
1.338000	23.70	5.9	56	32.3	QP	L1	GND

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.158000	28.00	6.8	56	27.6	AV	L1	GND
0.190000	25.50	6.6	54	28.5	AV	L1	GND
0.538000	17.40	5.4	46	28.6	AV	L1	GND
0.570000	25.10	5.4	46	20.9	AV	L1	GND
0.602000	19.60	5.4	46	26.4	AV	L1	GND
0.618000	17.40	5.4	46	28.6	AV	L1	GND

RESULT: PASS

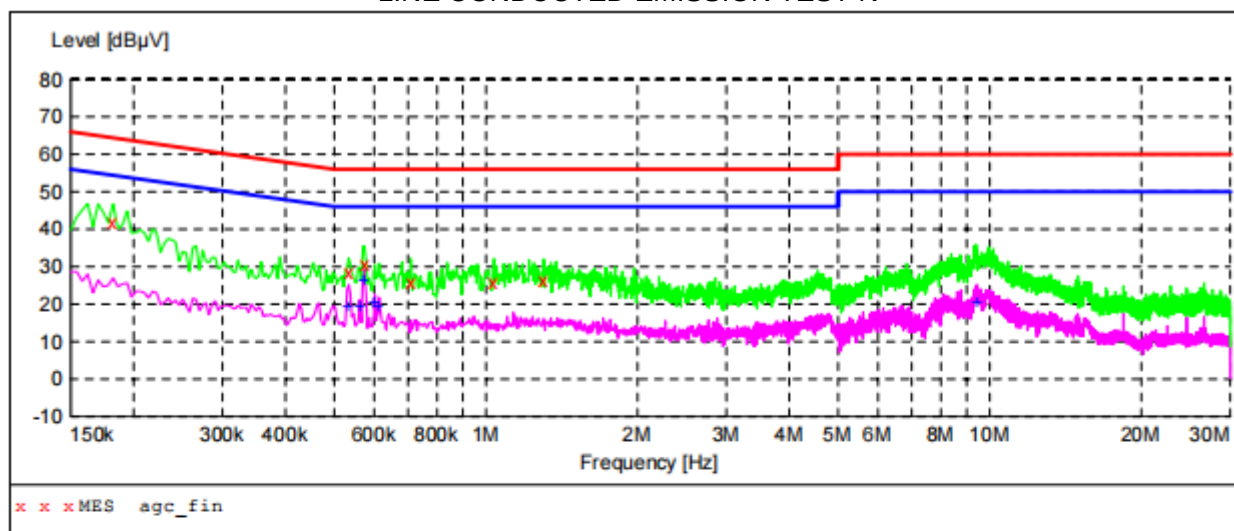
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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.182000	42.10	6.7	64	22.3	QP	N	GND
0.534000	28.40	5.4	56	27.6	QP	N	GND
0.574000	30.60	5.4	56	25.4	QP	N	GND
0.710000	26.00	5.4	56	30.0	QP	N	GND
1.038000	25.60	5.5	56	30.4	QP	N	GND
1.302000	26.50	5.8	56	29.5	QP	N	GND

MEASUREMENT RESULT: "agc_fin2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.534000	19.40	5.4	46	26.6	AV	N	GND
0.562000	19.40	5.4	46	26.6	AV	N	GND
0.574000	26.60	5.4	46	19.4	AV	N	GND
0.602000	20.50	5.4	46	25.5	AV	N	GND
0.614000	19.30	5.4	46	26.7	AV	N	GND
9.434000	20.60	6.8	50	29.4	AV	N	GND

RESULT: PASS

Note: All the test modes had been tested, the Mode 3 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC08218221002AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC08218221002AP02

----END OF REPORT----

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4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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