
FCC Test Report

Report No.: AGC00688231002FR02

FCC ID : 2BCE8-WGM832

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Dual Mode Wireless Mouse

BRAND NAME : WAIZOWL, TRUSYO

MODEL NAME : WGM832(OGM CLOUD), WGM833(OGM Pro V2)

CLIENT : Shenzhen Qianhai Biguan electronic Technology Co., LTD

DATE OF ISSUE : Nov. 29, 2023

STANDARD(S) : FCC Part 15 Subpart C Section 15.249

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 29, 2023	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Qianhai Biguan electronic Technology Co., LTD
Address	A201, 203, Building A2, Fuhai International Science Park, 306 Qiao He Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, China
Manufacturer	Dongguan ShangGui Electronics Co., Ltd
Address	No.7, 7th Str. YinCheng Rd., Xiabian Village, Chang'an Town, Dongguan City, G.D, China. P.C. 523876
Factory	Dongguan ShangGui Electronics Co., Ltd
Address	No.7, 7th Str. YinCheng Rd., Xiabian Village, Chang'an Town, Dongguan City, G.D, China. P.C. 523876
Product Designation	Dual Mode Wireless Mouse
Brand Name	WAIZOWL, TRUSYO
Test Model	WGM832(OGM CLOUD)
Series Model	WGM833(OGM Pro V2)
Declaration of Difference	All the series models are the same as the test model except for the model names, appearance size and side key PCB are different.
Date of receipt of test item	Nov. 13, 2023
Date of test	Nov. 13, 2023 - Nov. 29, 2023
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui

 Jack Gui
(Project Engineer)

Nov. 29, 2023

Reviewed By

Calvin Liu

 Calvin Liu
(Reviewer)

Nov. 29, 2023

Approved By

Max Zhang

 Max Zhang
Authorized Officer

Nov. 29, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.403 GHz to 2.477GHz
Maximum field strength	93.25dBuV/m(peak)@3m
Modulation	GFSK
Number of channels	38
Hardware Version	ver1.0
Software Version	ver1.0
Antenna Designation	Ceramic Antenna
Antenna Gain	2.2dBi
Power Supply	DC 3.7V by battery

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Channel Number	Frequency
2400~2483.5MHz	1	2403	20	2441
	2	2405	21	2443
	3	2407	22	2445
	4	2409	23	2447
	5	2411	24	2449
	6	2413	25	2451
	7	2415	26	2453
	8	2417	27	2455
	9	2419	28	2457
	10	2421	29	2459
	11	2423	30	2461
	12	2425	31	2463
	13	2427	32	2465
	14	2429	33	2467
	15	2431	34	2469
	16	2433	35	2471
	17	2435	36	2473
	18	2437	37	2475
	19	2439	38	2477

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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%.

- Uncertainty of Conducted Emission, $U_c = \pm 2.9$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.9$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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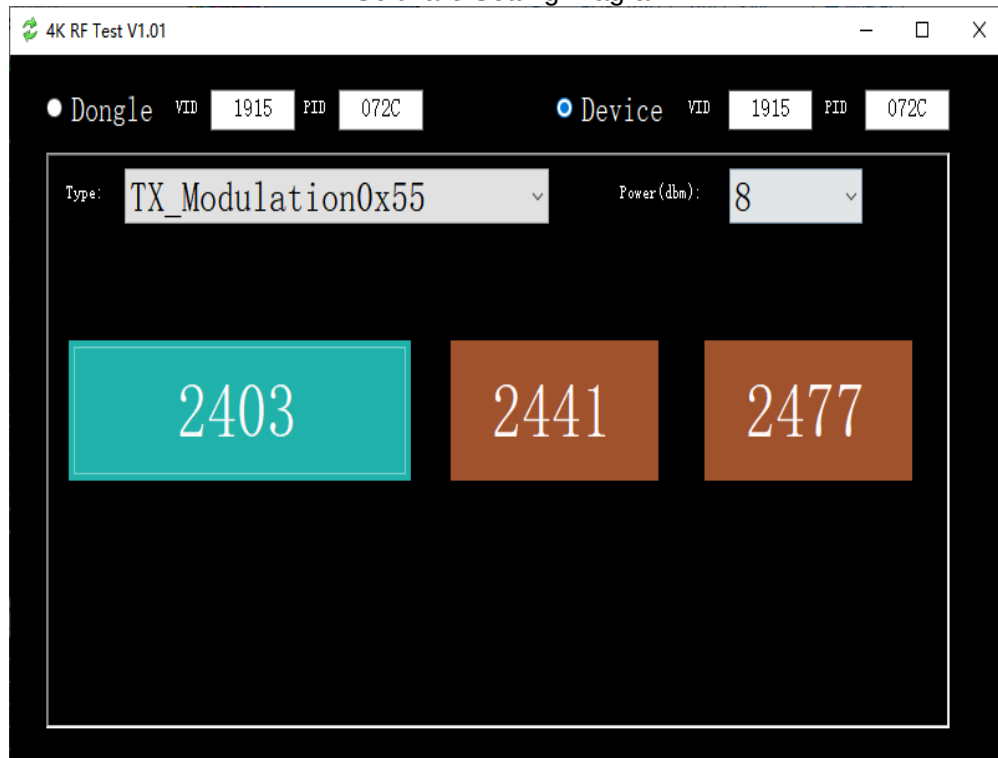
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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2403MHz_GFSK
2	Middle channel TX_2441MHz_GFSK
3	High channel TX_2477MHz_GFSK

Note: 1. All the test modes can be supply by battery, 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. The EUT used fully-charged battery when tested.
4. Due to differences in external dimensions and side key PCB, the series model: WGM833 (OGM Pro V2) has been added radiation emission testing.

Software Setting Diagram



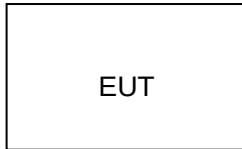
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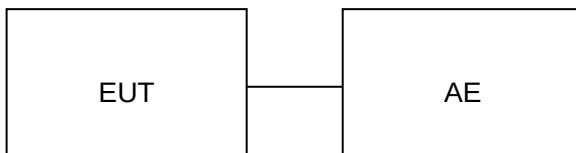
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



Configure 2:



5.2. EQUIPMENT USED IN EUT SYSTEM

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Control Box	USB-TTL	--	--	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	--	--	--	--	--

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	N/A
§15.215	Band Width	Compliant

Note: 1.N/A means not applicable.

2.The 2.4G function cannot transmit when charging.

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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

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7. TEST EQUIPMENT LIST

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
☒	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2023-03-03	2024-03-02
☒	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2023-03-03	2024-03-02
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
☒	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☐	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
☒	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
☒	AGC-ER-S012	BT/WIFI-Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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8. RADIATED EMISSION

8.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu V/m$	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark: (1) Emission level dB $\mu V = 20 \log$ Emission level $\mu V/m$
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

8.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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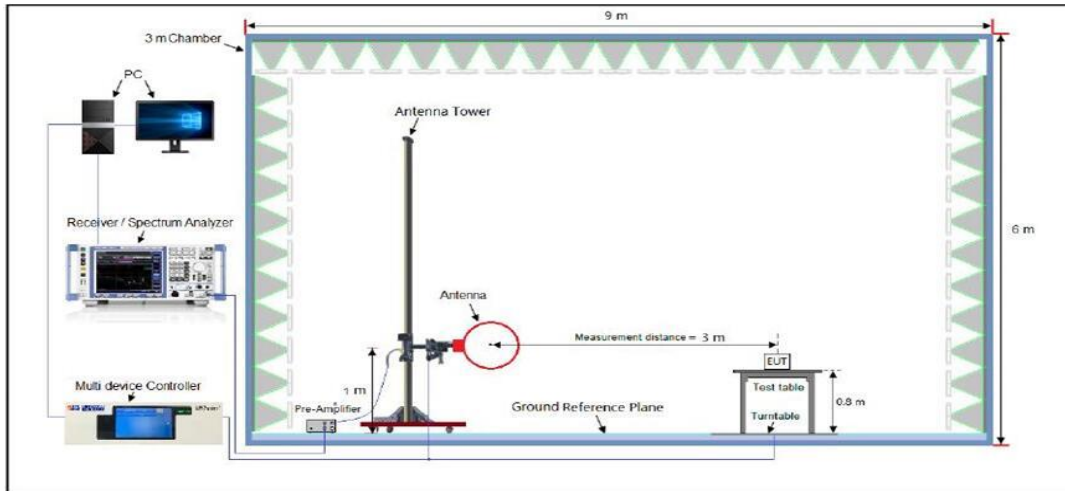
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

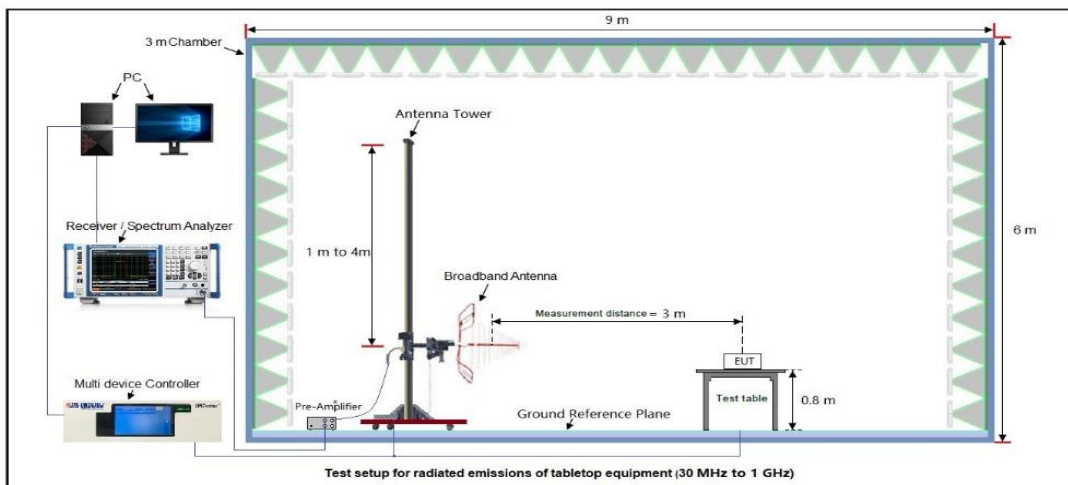
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8.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz

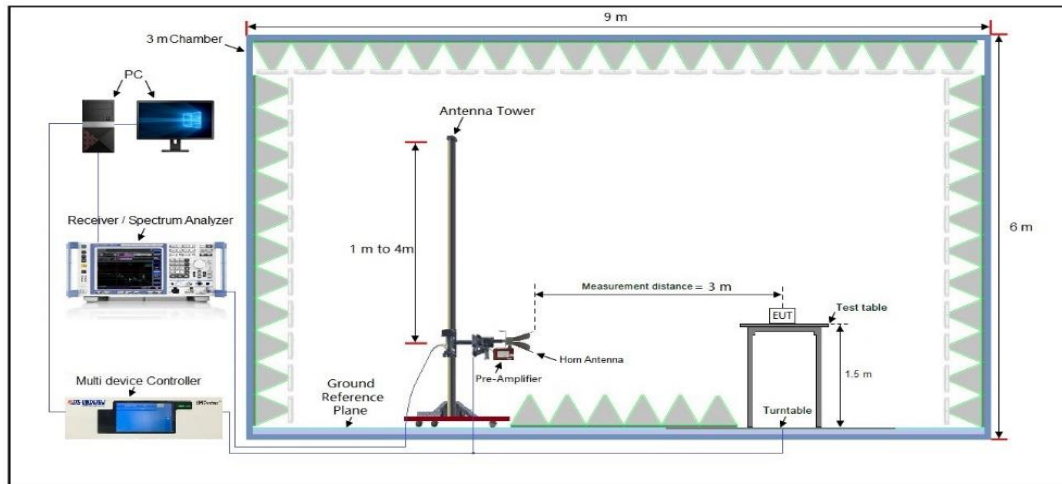


RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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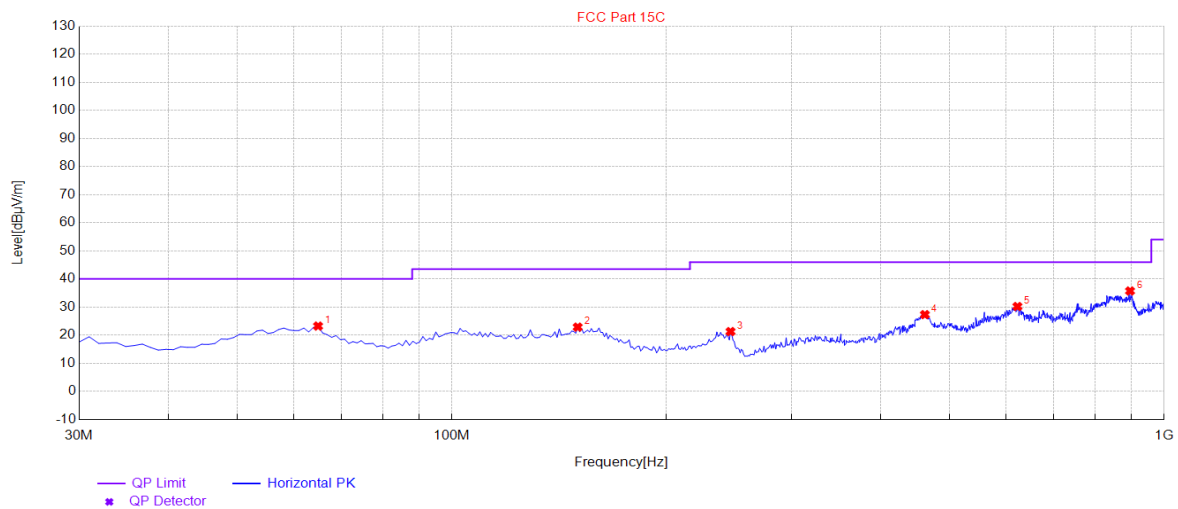
8.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHz

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal



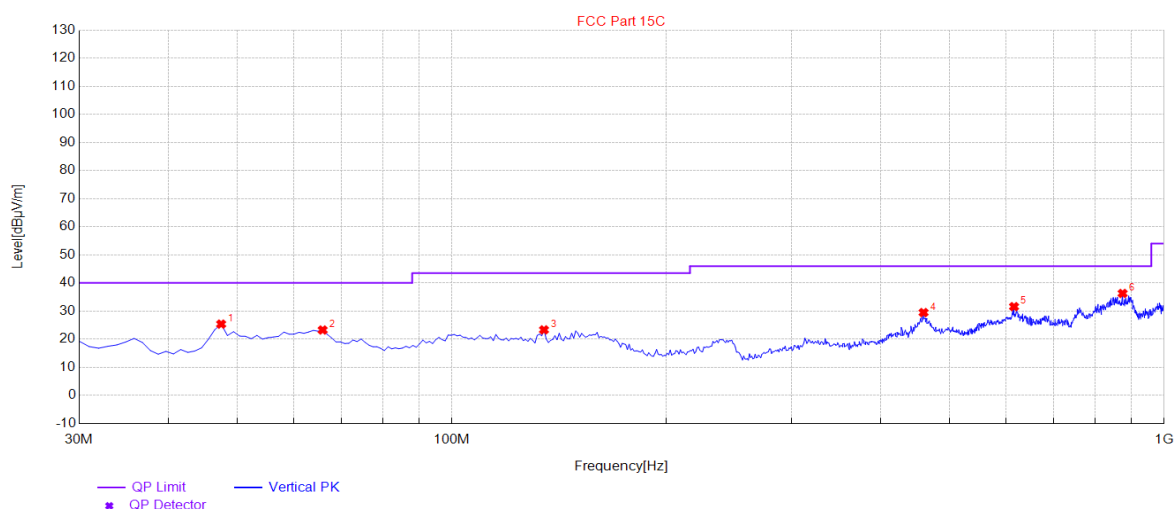
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	64.92	23.24	16.29	40.00	16.76	100	210	Horizontal
2	150.28	22.87	17.19	43.50	20.63	100	210	Horizontal
3	246.31	21.29	13.86	46.00	24.71	100	120	Horizontal
4	461.65	27.31	24.36	46.00	18.69	100	140	Horizontal
5	622.67	30.21	25.54	46.00	15.79	100	170	Horizontal
6	896.21	35.73	30.12	46.00	10.27	100	120	Horizontal

RESULT: PASS

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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.46	25.36	13.96	40.00	14.64	100	210	Vertical
2	65.89	23.26	15.98	40.00	16.74	100	310	Vertical
3	134.76	23.32	15.79	43.50	20.18	100	340	Vertical
4	459.71	29.47	24.69	46.00	16.53	100	310	Vertical
5	615.88	31.58	25.47	46.00	14.42	100	110	Vertical
6	874.87	36.28	29.51	46.00	9.72	100	60	Vertical

RESULT: PASS

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

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

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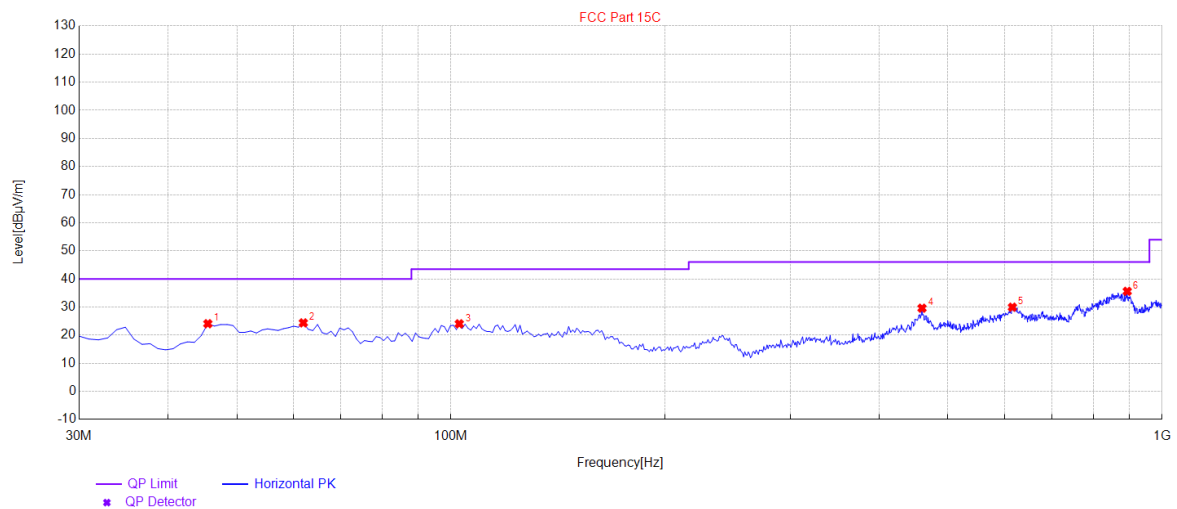
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RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHz

EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	21.9°C	Relative Humidity	60.2%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal



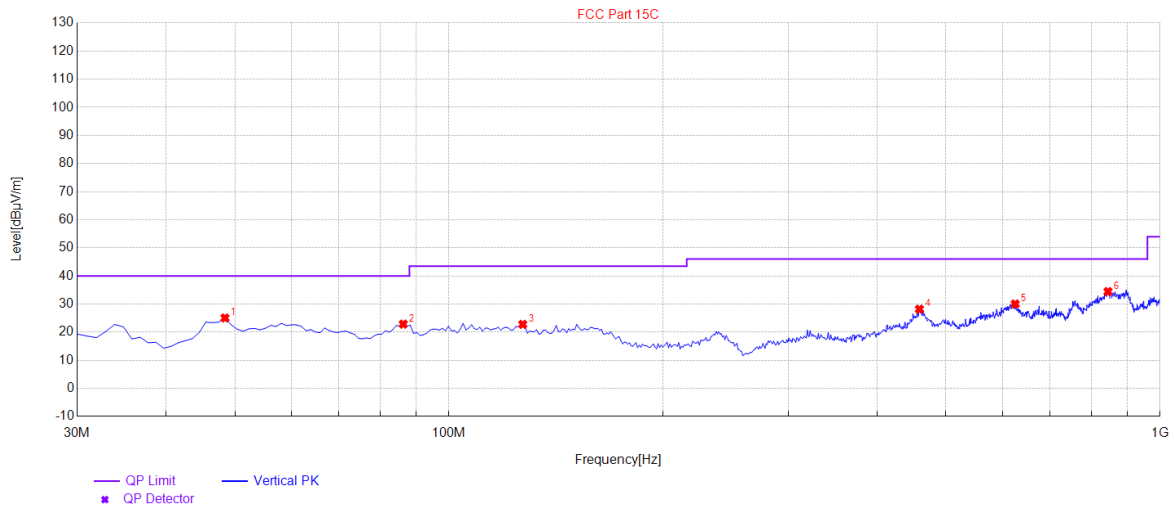
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.52	24.08	12.99	40.00	15.92	100	120	Horizontal
2	62.01	24.38	17.23	40.00	15.62	100	210	Horizontal
3	102.75	24.04	16.93	43.50	19.46	100	220	Horizontal
4	459.71	29.60	24.69	46.00	16.40	100	280	Horizontal
5	615.88	29.96	25.47	46.00	16.04	100	250	Horizontal
6	893.3	35.60	29.98	46.00	10.40	100	230	Horizontal

RESULT: PASS

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EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	21.9°C	Relative Humidity	60.2%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.43	25.06	14.44	40.00	14.94	100	180	Vertical
2	86.26	22.87	13.25	40.00	17.13	100	120	Vertical
3	127	22.78	15.65	43.50	20.72	100	100	Vertical
4	458.74	28.19	24.42	46.00	17.81	100	100	Vertical
5	625.58	30.03	25.12	46.00	15.97	100	280	Vertical
6	844.8	34.45	29.47	46.00	11.55	100	210	Vertical

RESULT: PASS

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

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

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FIELD STRENGTH OF FUNDAMENTAL

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2403	79.32	13.46	92.78	114	-21.22	peak
2403	65.41	13.46	78.87	94	-15.13	AVG
2441	75.84	13.88	89.72	114	-24.28	peak
2441	63.81	13.88	77.69	94	-16.31	AVG
2477	79.14	14.11	93.25	114	-20.75	peak
2477	77.25	14.11	91.36	94	-2.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2403	76.37	13.46	89.83	114	-24.17	peak
2403	61.86	13.46	75.32	94	-18.68	AVG
2441	71.73	13.88	85.61	114	-28.39	peak
2441	61.05	13.88	74.93	94	-19.07	AVG
2477	76.11	14.11	90.22	114	-23.78	peak
2477	74.49	14.11	88.60	94	-5.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4806	45.21	7.12	52.33	74	-21.67	peak
4806	34.26	7.12	41.38	54	-12.62	AVG
7209	41.11	9.84	50.95	74	-23.05	peak
7209	30.38	9.84	40.22	54	-13.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4806	45.32	7.12	52.44	74	-21.56	peak
4806	35.27	7.12	42.39	54	-11.61	AVG
7209	39.47	9.84	49.31	74	-24.69	peak
7209	28.38	9.84	38.22	54	-15.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	44.27	7.12	51.39	74	-22.61	peak
4882	36.21	7.12	43.33	54	-10.67	AVG
7323	40.12	9.84	49.96	74	-24.04	peak
7323	29.88	9.84	39.72	54	-14.28	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	45.29	7.12	52.41	74	-21.59	peak
4882	32.56	7.12	39.68	54	-14.32	AVG
7323	40.34	9.84	50.18	74	-23.82	peak
7323	28.47	9.84	38.31	54	-15.69	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4954	45.47	7.12	52.59	74	-21.41	peak
4954	36.16	7.12	43.28	54	-10.72	AVG
7431	40.26	9.84	50.10	74	-23.9	peak
7431	31.44	9.84	41.28	54	-12.72	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4954	44.17	7.12	51.29	74	-22.71	peak
4954	33.44	7.12	40.56	54	-13.44	AVG
7431	38.45	9.84	48.29	74	-25.71	peak
7431	27.18	9.84	37.02	54	-16.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4806	45.17	7.12	52.29	74	-21.71	peak
4806	34.22	7.12	41.34	54	-12.66	AVG
7209	41.05	9.84	50.89	74	-23.11	peak
7209	30.33	9.84	40.17	54	-13.83	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4806	45.26	7.12	52.38	74	-21.62	peak
4806	35.21	7.12	42.33	54	-11.67	AVG
7209	39.40	9.84	49.24	74	-24.76	peak
7209	28.31	9.84	38.15	54	-15.85	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	44.20	7.12	51.32	74	-22.68	peak
4882	36.15	7.12	43.27	54	-10.73	AVG
7323	40.03	9.84	49.87	74	-24.13	peak
7323	29.82	9.84	39.66	54	-14.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	45.19	7.12	52.31	74	-21.69	peak
4882	32.51	7.12	39.63	54	-14.37	AVG
7323	40.30	9.84	50.14	74	-23.86	peak
7323	28.42	9.84	38.26	54	-15.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4954	45.39	7.12	52.51	74	-21.49	peak
4954	36.10	7.12	43.22	54	-10.78	AVG
7431	40.22	9.84	50.06	74	-23.94	peak
7431	31.40	9.84	41.24	54	-12.76	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Dual Mode Wireless Mouse	Model Name	WGM833(OGM Pro V2)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4954	44.12	7.12	51.24	74	-22.76	peak
4954	33.41	7.12	40.53	54	-13.47	AVG
7431	38.29	9.84	48.13	74	-25.87	peak
7431	27.12	9.84	36.96	54	-17.04	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

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9. BAND EDGE EMISSION

9.1 TEST LIMIT

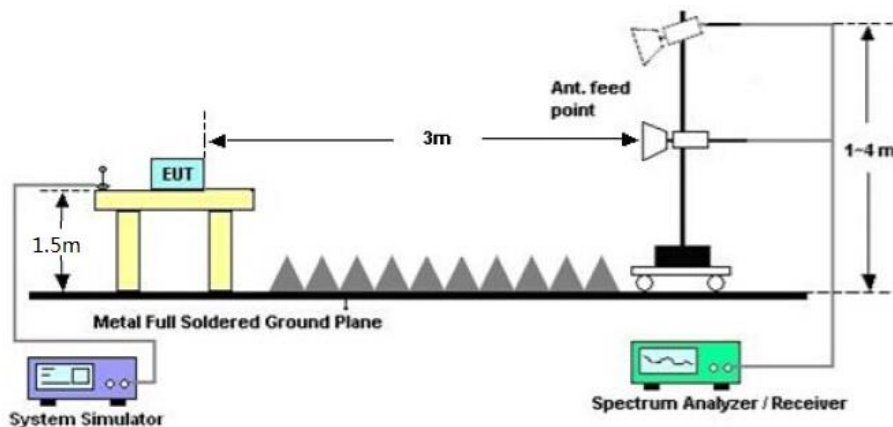
Frequency Band	Limit of the Field Strength (dB μ V/m)	
	Peak	Average
$f \leq 2400\text{MHz}$	74	54
$f \geq 2483.5\text{MHz}$	74	54

9.2. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time / Sweep=AUTO
3. Other procedures refer to clause 8.2.

9.3 TEST SETUP

RADIATED EMISSION TEST SETUP



9.4 TEST RESULT

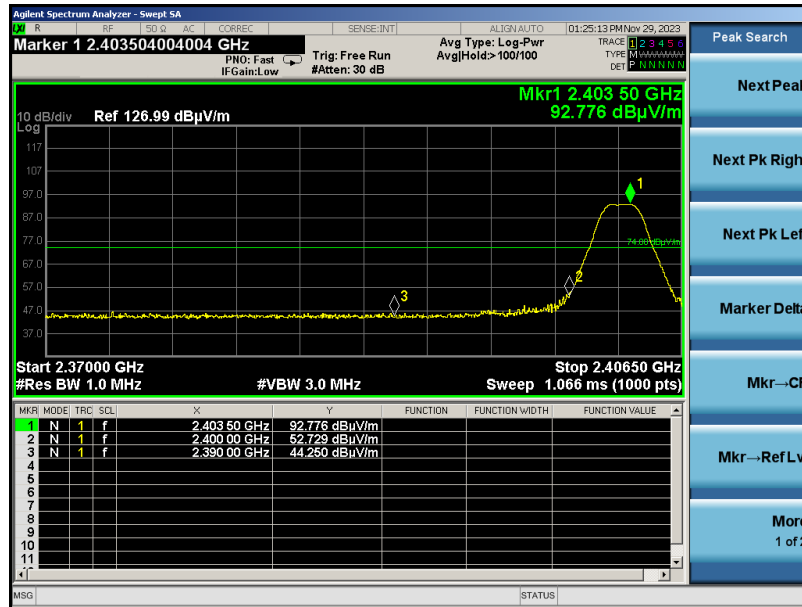
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude.
Use the F dB(μ V/m) to represent the Field Strength. So A=F.

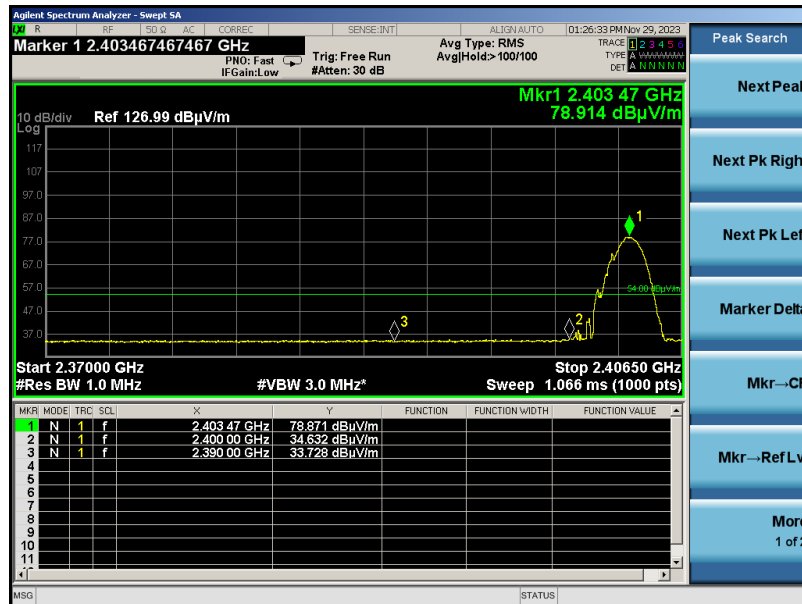
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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



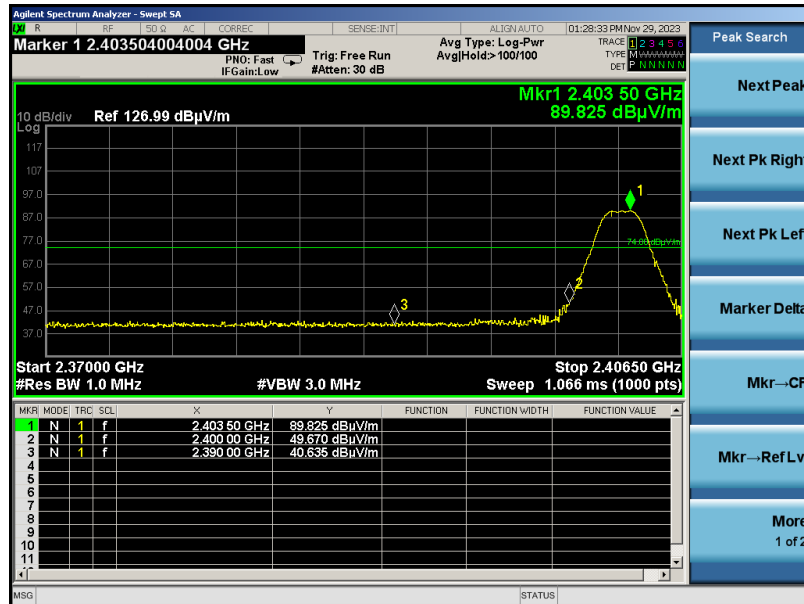
Average Value



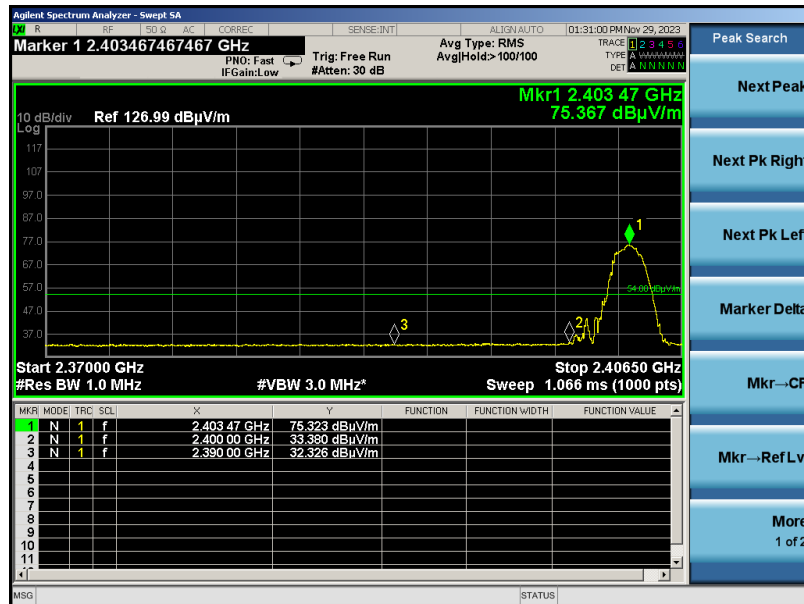
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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 1	Polarization	Vertical

Peak Value



Average Value

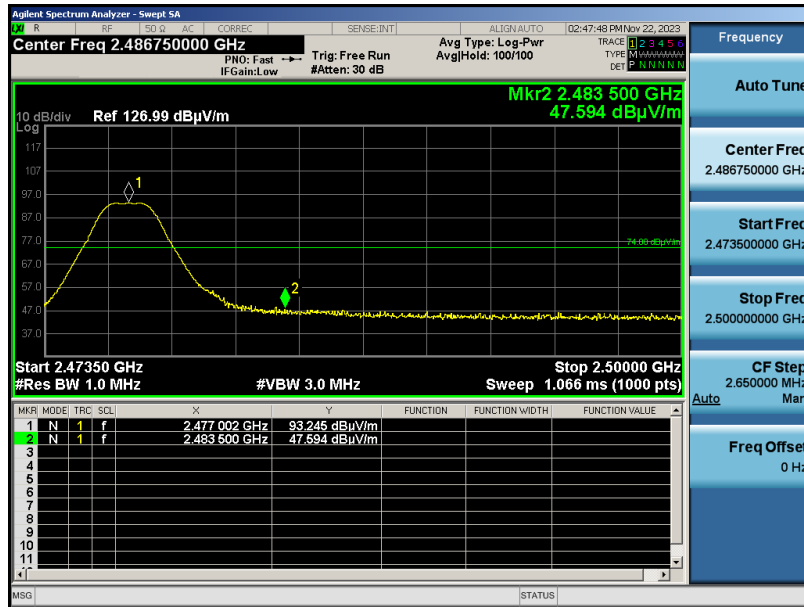


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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC 3.7V
Test Mode	Mode 3	Polarization	Horizontal

Peak Value



Average Value

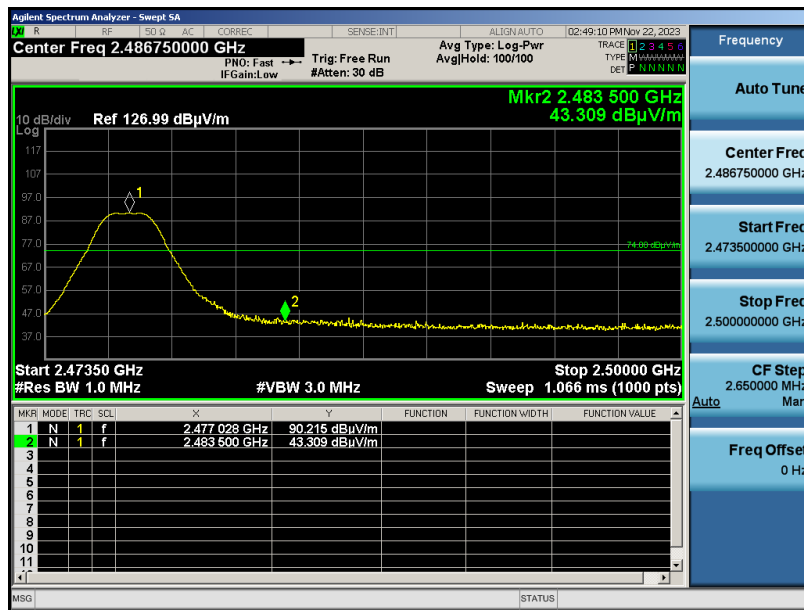


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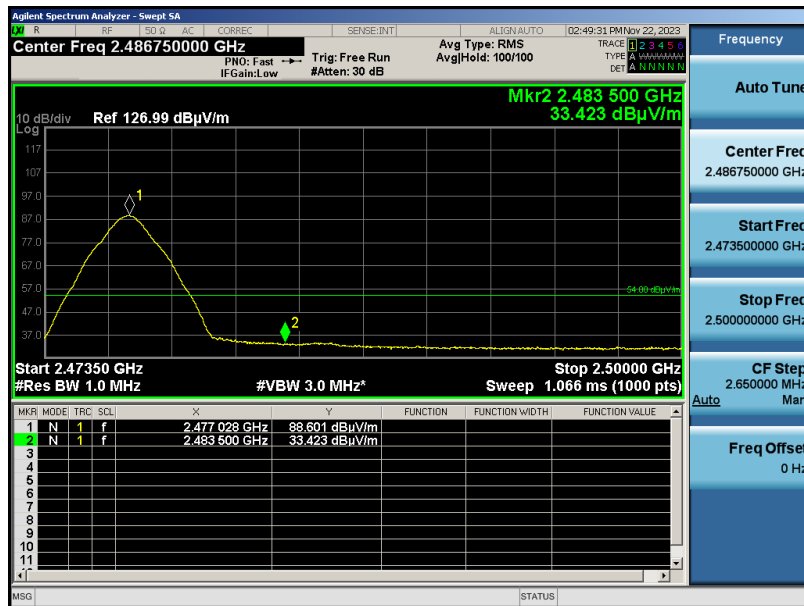
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EUT	Dual Mode Wireless Mouse	Model Name	WGM832(OGM CLOUD)
Temperature	22.5°C	Relative Humidity	59.1%
Pressure	1010 hPa	Test Voltage	DC5V
Test Mode	Mode 3	Polarization	Vertical

Peak Value



Average Value



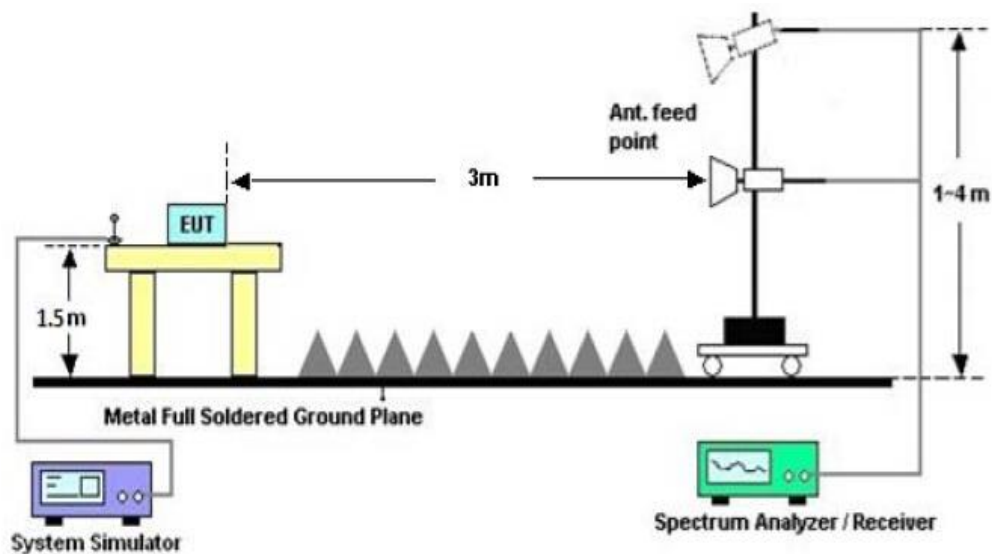
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10. 20DB BANDWIDTH

10.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ 3RBW; Sweep = auto; Detector function = peak
3. Set SPA Trace 1 Max hold, then View.

10.2. TEST SET-UP



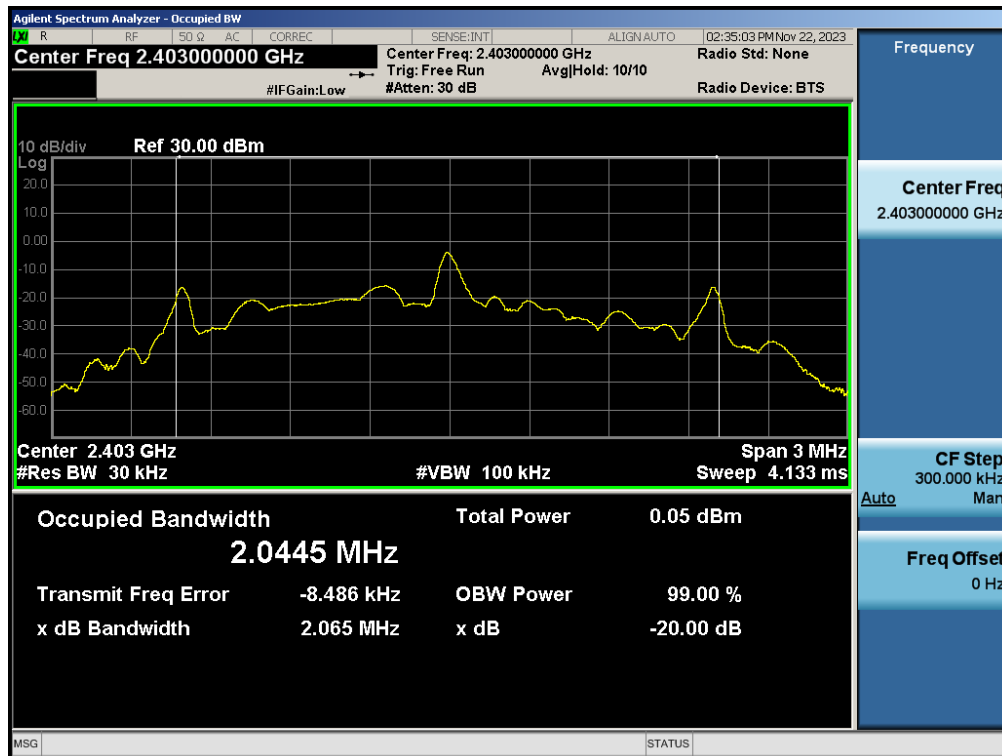
10.3. LIMITS AND MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

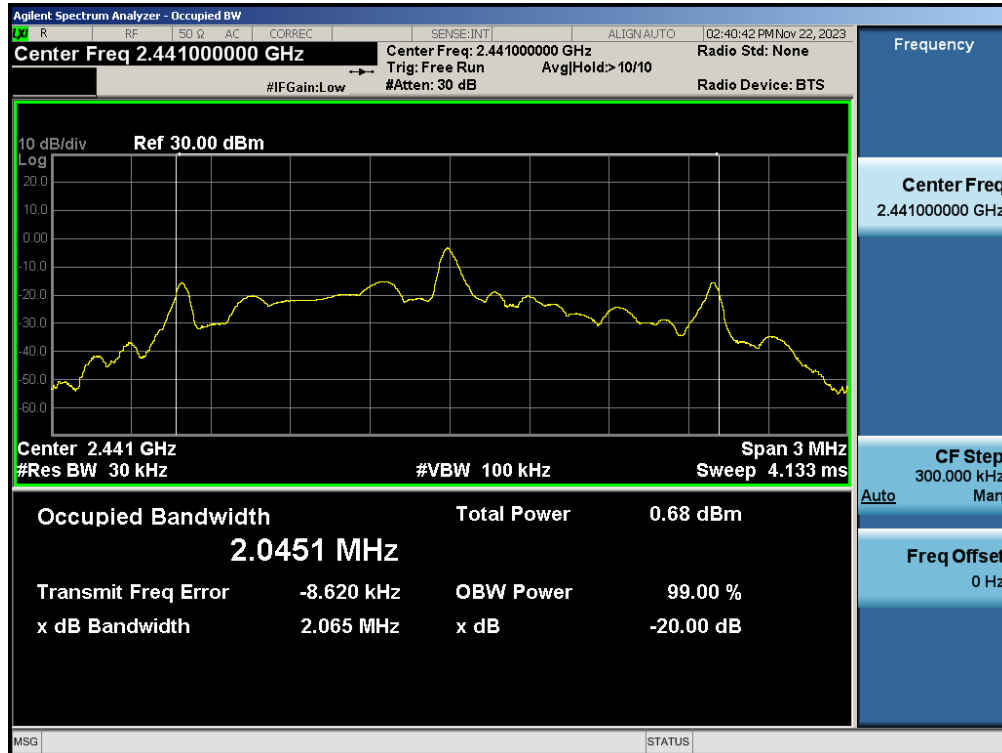
Test Data (MHz)		Criteria
Low Channel	2.065	PASS
Middle Channel	2.065	PASS
High Channel	2.066	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

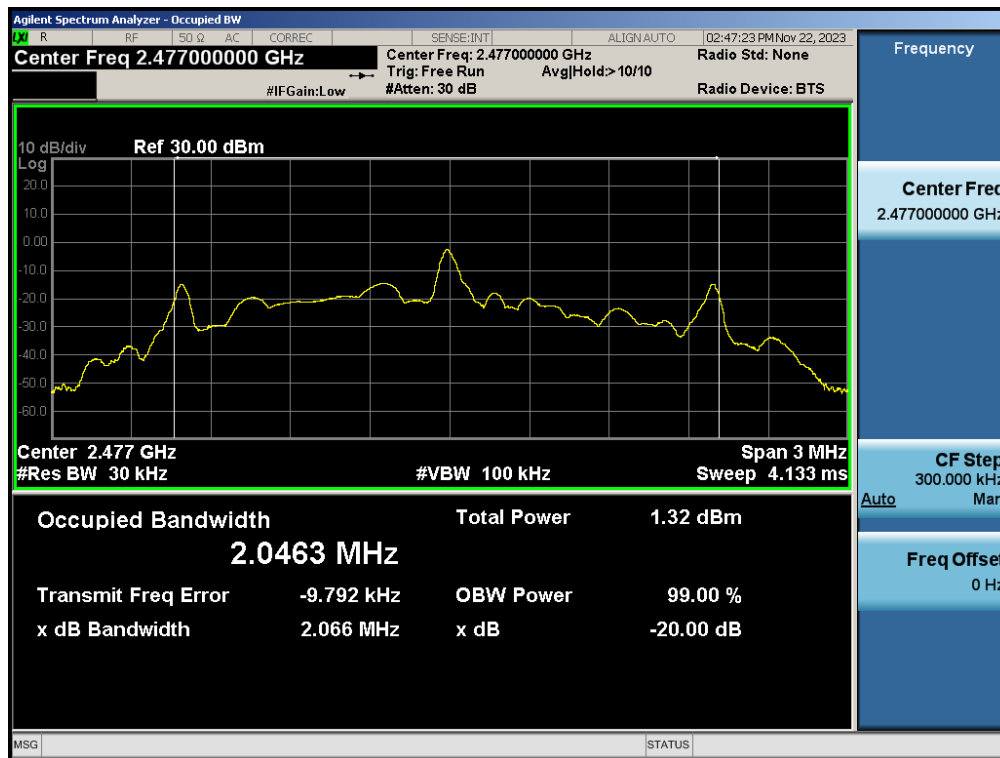


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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11. FCC LINE CONDUCTED EMISSION TEST

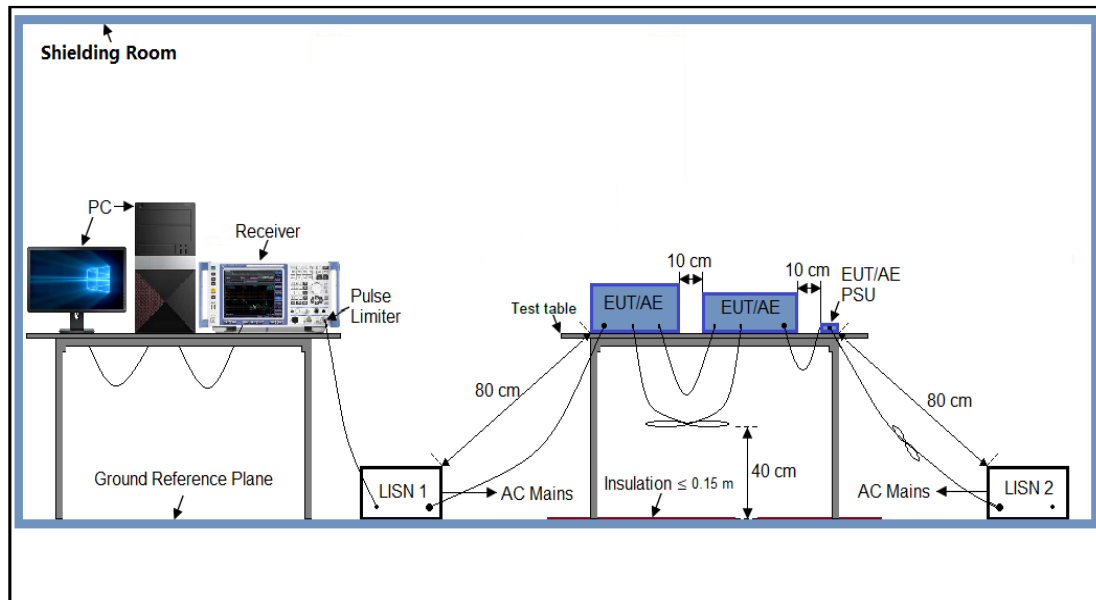
11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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11.3. 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 C63.10-2013 (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 C63.10-2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power by adapter which received AC120V/60Hz power by 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.

11.4. 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.

11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The 2.4G function cannot transmit when charging

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC00688231002AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC00688231002AP02

----END OF REPORT----

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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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9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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