
FCC Test Report

Report No.: AGC13040231203FR01

FCC ID : 2AELM-PKD03
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : USB dongle for wireless mouse
BRAND NAME : Purekeys
MODEL NAME : PK-DRF-03, PKD03
APPLICANT : Purekeys BV
DATE OF ISSUE : Jan. 22, 2024
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
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	/	Jan. 22, 2024	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Purekeys BV
Address	Rouaanstraat 23 C 9723 CC Groningen Netherlands
Manufacturer	Zhuhai Heng Yu New Technology Company Limited
Address	No. 10, Yingyue Road, Yunong Village North, Sanzao Town, Zhuhai, Guangdong, P.R. China
Factory	N/A
Address	N/A
Product Designation	USB dongle for wireless mouse
Brand Name	Purekeys
Test Model	PK-DRF-03
Series Model(s)	PKD03
Difference Description	All the series models are the same as the test model except for the model names.
Date of receipt of test item	Dec. 18, 2023
Date of test	Dec. 18, 2023 to Jan. 22, 2024
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-2.4G/RF

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

Prepared By



Jack Gui
(Project Engineer)

Jan. 22, 2024

Reviewed By



Calvin Liu
(Reviewer)

Jan. 22, 2024

Approved By



Max Zhang
Authorized Officer

Jan. 22, 2024

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2402MHz-2480MHz
Maximum field strength	95.91dBuV/m(Peak)@3m
Modulation	GFSK
Number of channels	79 Channels
Antenna Gain	1.87dBi
Antenna Designation	PCB Antenna
Hardware Version	HY-00N002-2-02-03 2023.03.16
Software Version	V1.0
Power Supply	DC 5V by PC

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Channel Number	Frequency
2400~2483.5MHz	0	2402 MHz
	1	2403 MHz
	:	:
	40	2442MHz
	:	:
	77	2479 MHz
	78	2480 MHz
Note: $f = 2402 + 1k \text{ MHz}$, $k = 0, \dots, 73$; “f” is the operating frequency (MHz); “k” is the operating channel.		

2.3. 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	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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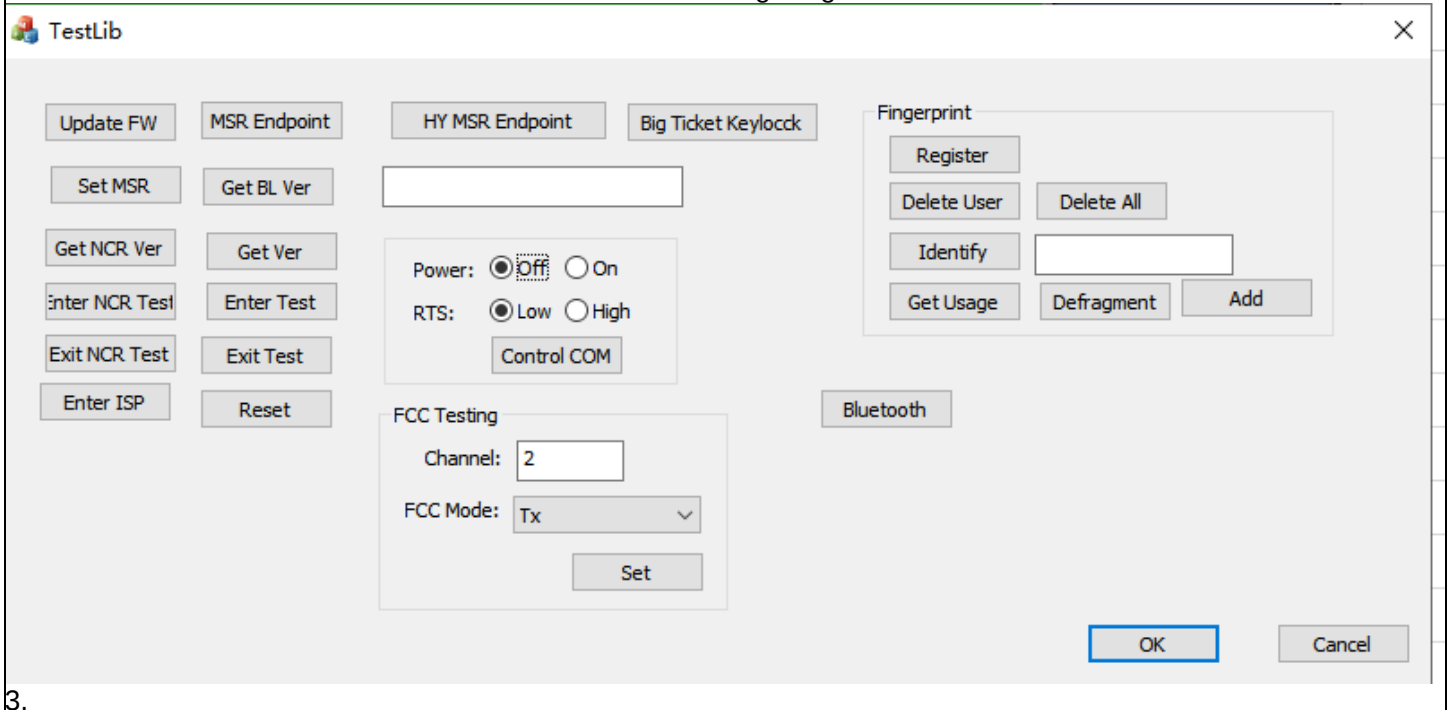
4. DESCRIPTION OF TEST MODES

Summary Table of Test Cases	
Test Item	Equipment type / Modulation
	2.4G / GFSK
Radiated Test Cases	Mode 1: 2.4G Tx CH00_2402 MHz (Powered by PC) Mode 2: 2.4G Tx CH40_2442 MHz (Powered by PC) Mode 3: 2.4G Tx CH78_2480 MHz(Powered by PC)
AC Conducted Emission	Mode 1: 2.4G Tx Powered by PC

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.

Software Setting Diagram



The screenshot shows the TestLib software interface. It includes a title bar with the TestLib logo and a close button. The main area contains several sections of controls:

- Buttons:** Update FW, MSR Endpoint, HY MSR Endpoint, Big Ticket Keylock, Set MSR, Get BL Ver, Get NCR Ver, Get Ver, Enter NCR Test, Enter Test, Exit NCR Test, Exit Test, Enter ISP, and Reset.
- Power and RTS Settings:** Power: ☒ Off ☐ On; RTS: ☒ Low ☐ High; and a Control COM button.
- FCC Testing:** Channel: 2; FCC Mode: Tx (dropdown); and a Set button.
- Fingerprint Section:** Register, Delete User, Delete All, Identify, Get Usage, Defragment, and Add buttons.
- Bluetooth:** A separate section with a Bluetooth button.
- Bottom Buttons:** OK and Cancel.

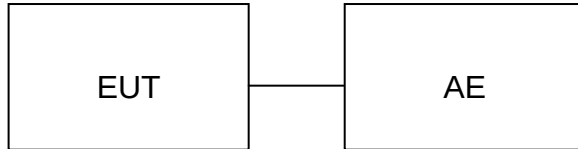
3.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	USB dongle for wireless mouse	PK-DRF-03	2AELM-PKD03	EUT
2	Redmi Notebook PC	XMA2002-AB	N/A	AE
3	Redmi Notebook Adapter	AD100G	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	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

● 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

● AC Power Line Conducted 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-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02
☒	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2024-06-08
☒	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024/06/02

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S004	RE Test System	Tonscend	TS+ Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+ Ver2.1(JS36-RSE)	4.0.0.0

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☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-ER-S009	BT/WIFI Test System	Tonscend	JS1120-3	2.6.77.0518

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7. RADIATED EMISSION

7.1. TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	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	
		μ V/m	dB(μ V)/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(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level dB μ V = 20 log Emission level μ 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.

7.2. 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 emissions, 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 minimum resolution bandwidth of 1 MHz. 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.

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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	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz for Average

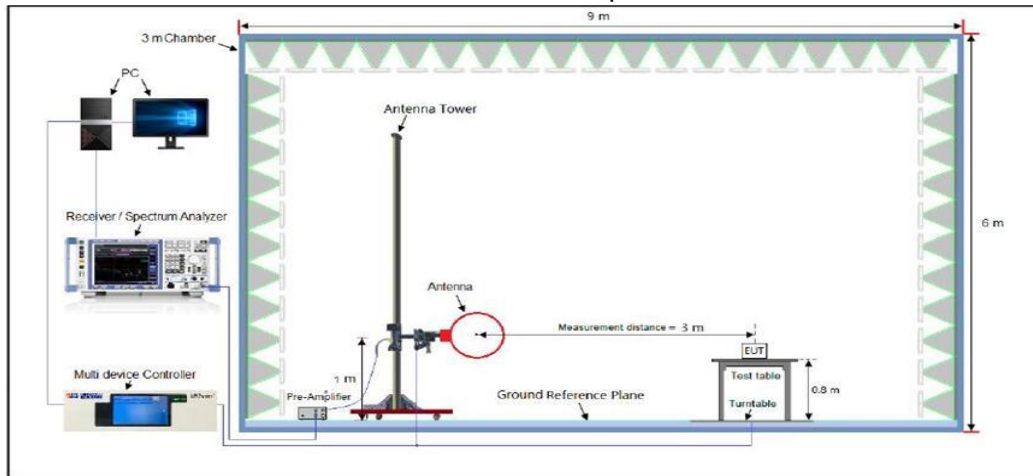
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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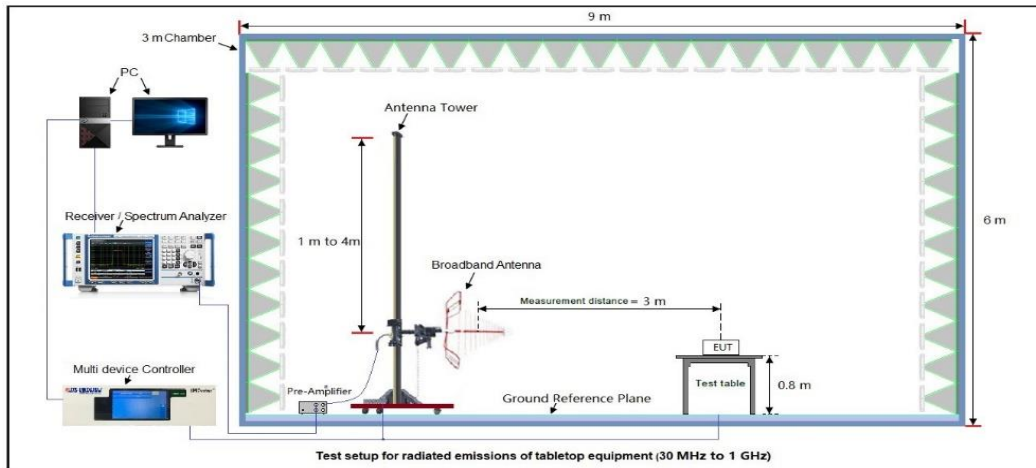
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7.3. TEST SETUP

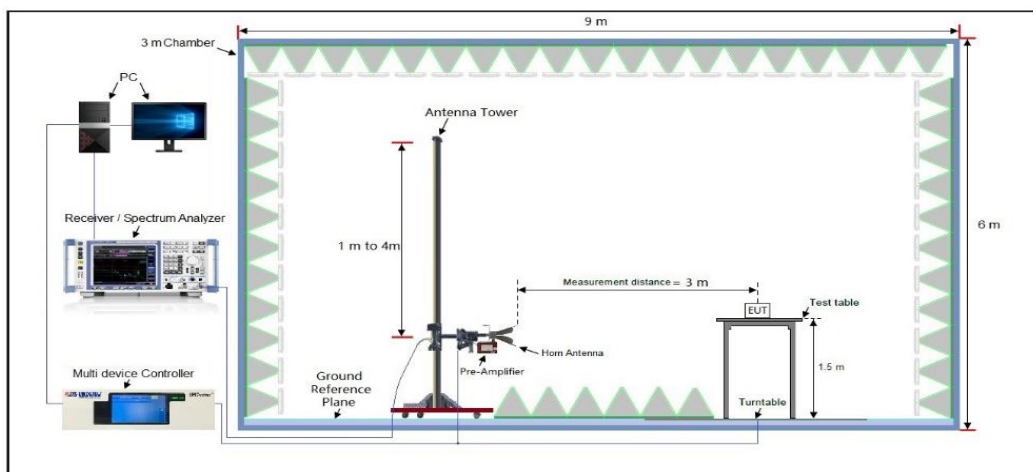
Radiated Emission Test Setup 9KHz-30MHz



Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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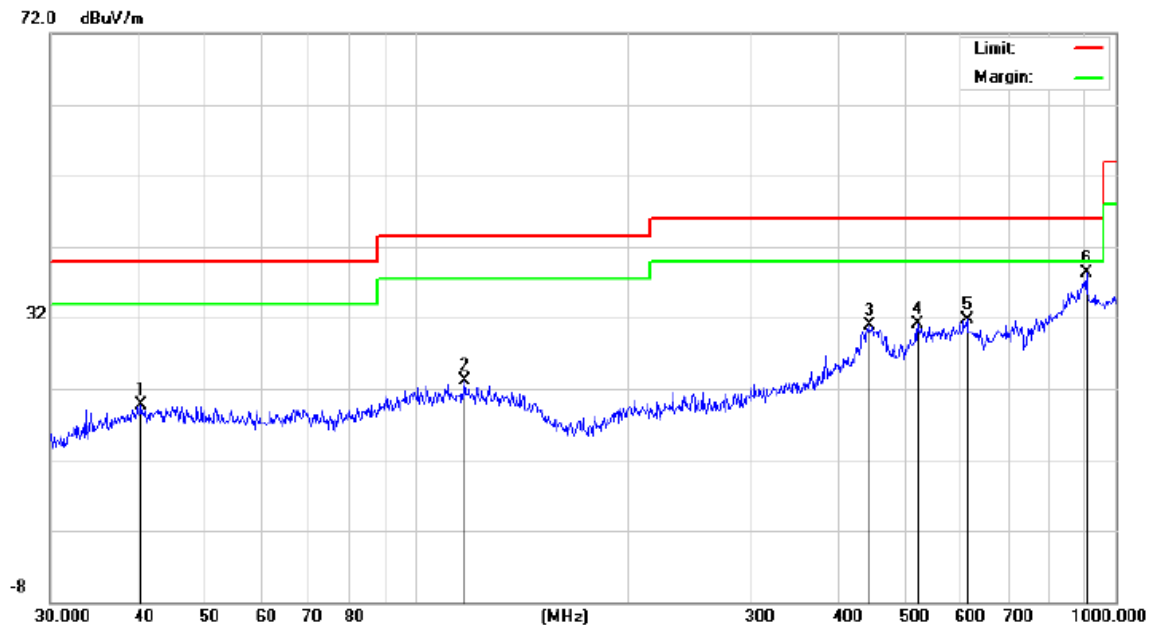
7.4. TEST RESULT

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.

RADIATED EMISSION 30MHZ- 1GHZ

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Horizontal

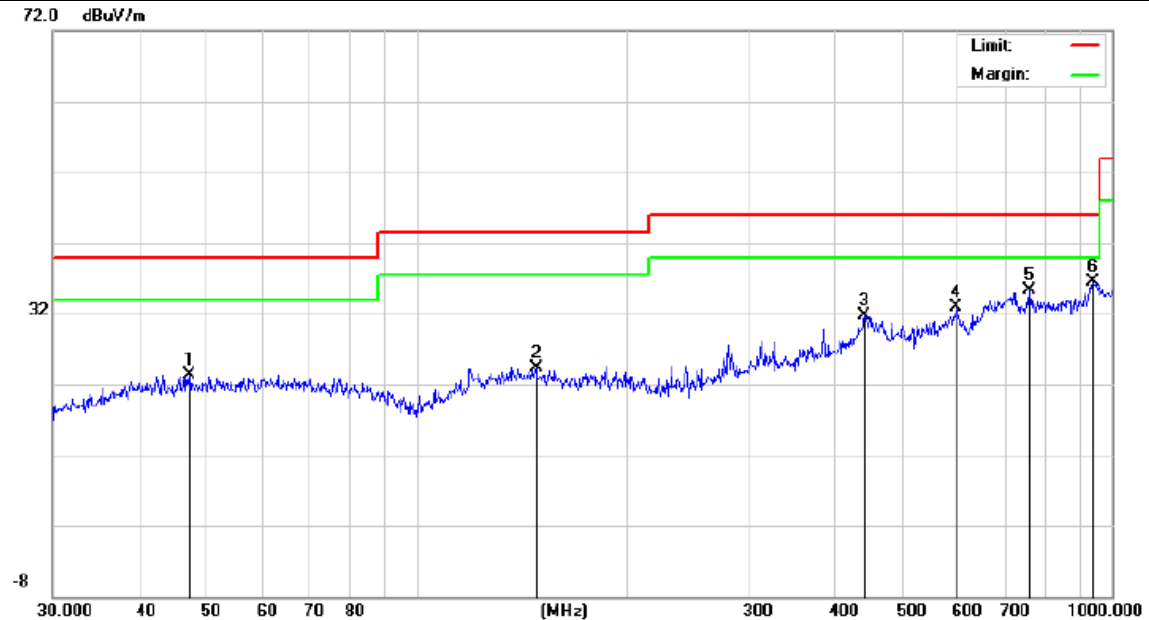


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		40.4172	5.75	13.87	19.62	40.00	-20.38	peak
2		117.3603	6.72	16.37	23.09	43.50	-20.41	peak
3		443.2943	5.93	24.98	30.91	46.00	-15.09	peak
4		520.8882	5.92	25.14	31.06	46.00	-14.94	peak
5		612.0642	6.49	25.16	31.65	46.00	-14.35	peak
6	*	906.4824	7.42	30.89	38.31	46.00	-7.69	peak

RESULT: PASS

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		47.1599	6.35	16.97	23.32	40.00	-16.68	peak
2		148.4410	6.11	18.20	24.31	43.50	-19.19	peak
3		440.1963	5.71	26.09	31.80	46.00	-14.20	peak
4		597.2233	6.90	26.03	32.93	46.00	-13.07	peak
5		760.7036	7.05	28.17	35.22	46.00	-10.78	peak
6	*	938.8325	5.60	30.84	36.44	46.00	-9.56	peak

RESULT: PASS

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

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

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FIELD STRENGTH OF FUNDAMENTAL

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	37.58	49.05	86.63	114.00	-27.37	peak
2402	29.75	49.05	78.80	94.00	-15.20	AVG
2442	41.15	49.12	90.27	114.00	-23.73	peak
2442	34.37	49.12	83.49	94.00	-10.51	AVG
2480	46.66	49.25	95.91	114.00	-18.09	peak
2480	38.55	49.25	87.80	94.00	-6.20	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	44.37	49.05	78.90	114.00	-35.10	peak
2402	29.51	49.05	70.76	94.00	-23.24	AVG
2442	45.31	49.12	82.94	114.00	-31.06	peak
2442	30.11	49.12	73.41	94.00	-20.59	AVG
2480	40.78	49.25	87.66	114.00	-26.34	peak
2480	30.48	49.25	87.80	94.00	-6.20	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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RADIATED EMISSION ABOVE 1GHZ

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	48.25	3.76	52.01	74.00	-21.99	peak
4804	39.24	3.76	43.00	54.00	-11.00	AVG
7206	41.62	8.17	49.79	74.00	-24.21	peak
7206	32.45	8.17	40.62	54.00	-13.38	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	48.61	3.76	52.37	74.00	-21.63	peak
4804	37.54	3.76	41.30	54.00	-12.70	AVG
7206	42.16	8.17	50.33	74.00	-23.67	peak
7206	31.69	8.17	39.86	54.00	-14.14	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4884	47.62	3.78	51.40	74.00	-22.60	peak
4884	38.41	3.78	42.19	54.00	-11.81	AVG
7326	32.44	8.23	40.67	74.00	-33.33	peak
7326	32.46	8.23	40.69	54.00	-13.31	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4884	46.94	3.78	50.72	74.00	-23.28	peak
4884	38.42	3.78	42.20	54.00	-11.80	AVG
7326	42.54	8.23	50.77	74.00	-23.23	peak
7326	31.59	8.23	39.82	54.00	-14.18	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	48.59	3.81	52.40	74.00	-21.60	peak
4960	37.54	3.81	41.35	54.00	-12.65	AVG
7440	42.51	8.27	50.78	74.00	-23.22	peak
7440	32.43	8.27	40.70	54.00	-13.30	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	19.2°C	Relative Humidity	46.2%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	47.62	3.81	51.43	74.00	-22.57	peak
4960	38.21	3.81	42.02	54.00	-11.98	AVG
7440	41.46	8.27	49.73	74.00	-24.27	peak
7440	32.67	8.27	40.94	54.00	-13.06	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.

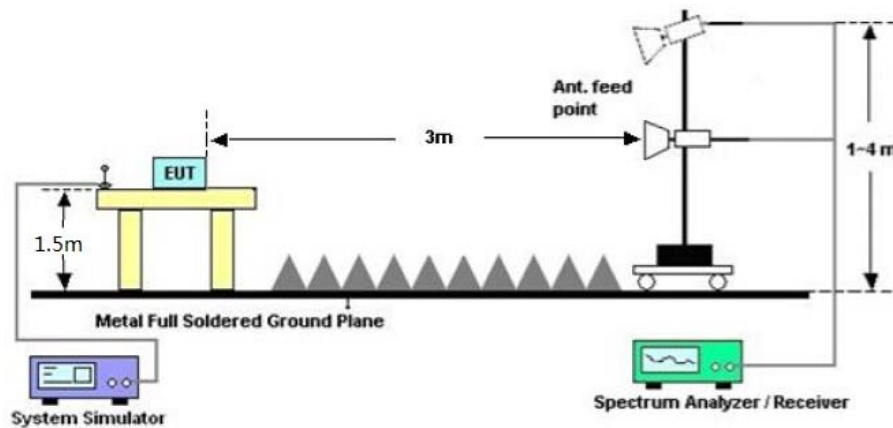
8. BAND EDGE EMISSION

8.1. 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=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2. TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

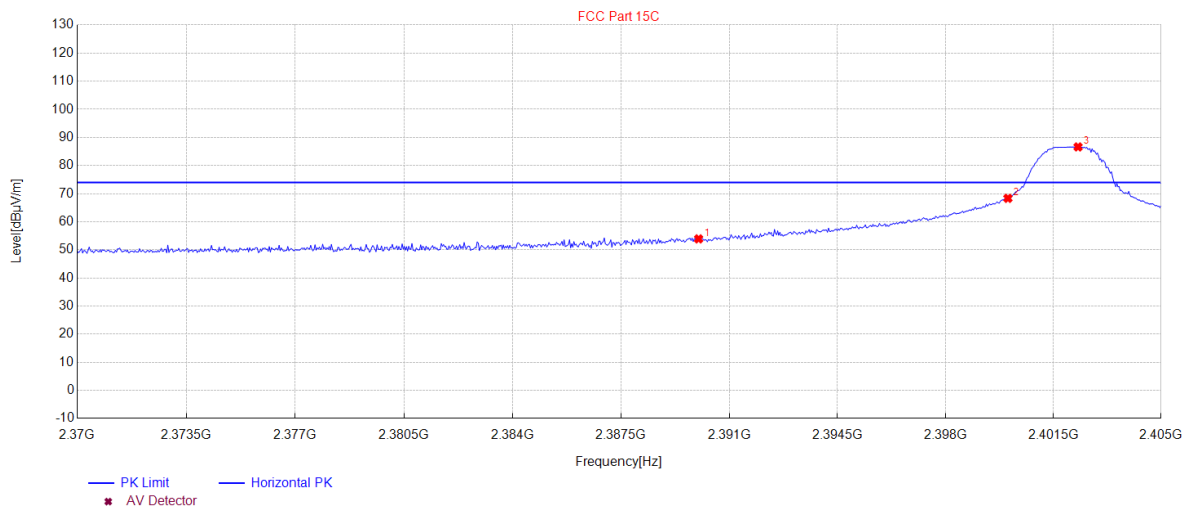
Note:

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	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 1	Polarization	Horizontal

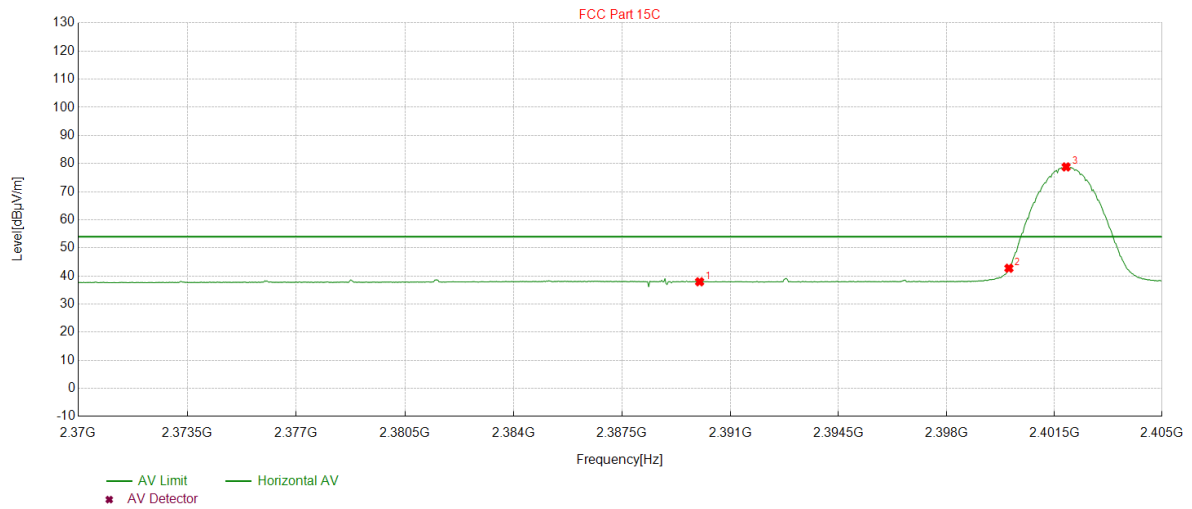
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.005	53.91	34.40	74.00	20.09	150	2	Horizontal
2	2400.025	68.34	34.43	74.00	5.66	150	338	Horizontal
3	2402.3023	86.63	34.44	114.00	23.37	150	342	Horizontal

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Average Value



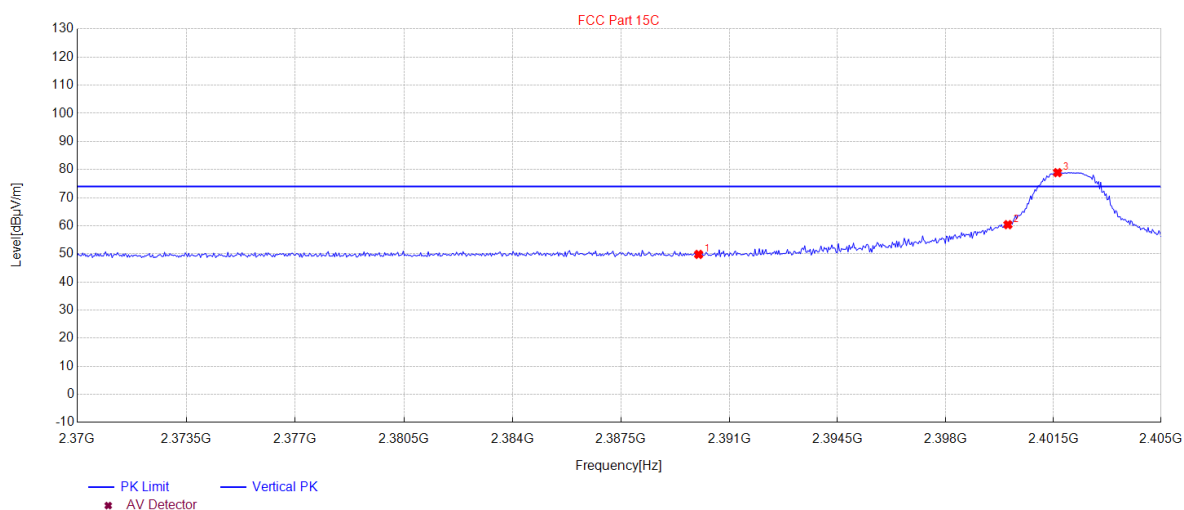
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.005	37.93	34.40	54.00	16.07	150	14	Horizontal
2	2400.025	42.75	34.43	54.00	11.25	150	338	Horizontal
3	2401.8819	78.80	34.44	94.00	15.20	150	338	Horizontal

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 1	Polarization	Vertical

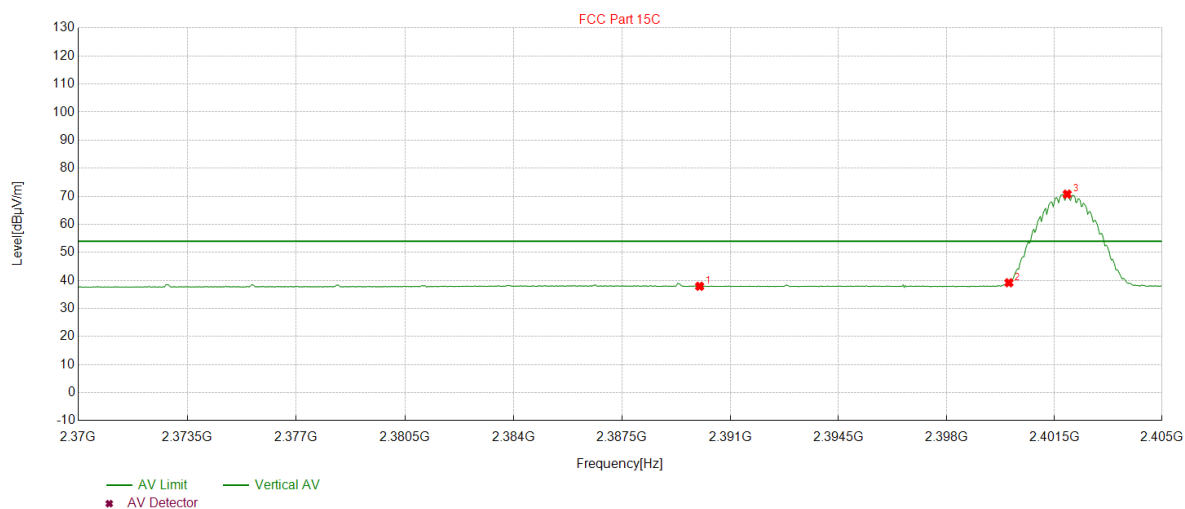
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.005	49.81	34.40	74.00	24.19	150	118	Vertical
2	2400.025	60.39	34.43	74.00	13.61	150	127	Vertical
3	2401.6366	78.90	34.43	114.00	35.10	150	127	Vertical

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Average Value



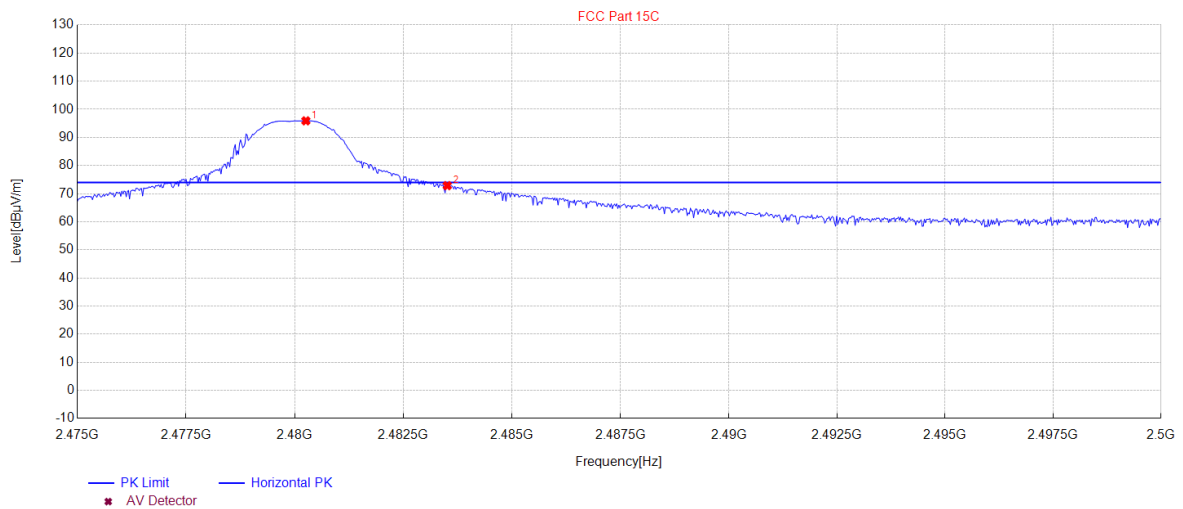
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.005	37.91	34.40	54.00	16.09	150	318	Vertical
2	2400.025	39.17	34.43	54.00	14.83	150	126	Vertical
3	2401.9169	70.76	34.44	94.00	23.24	150	126	Vertical

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Horizontal

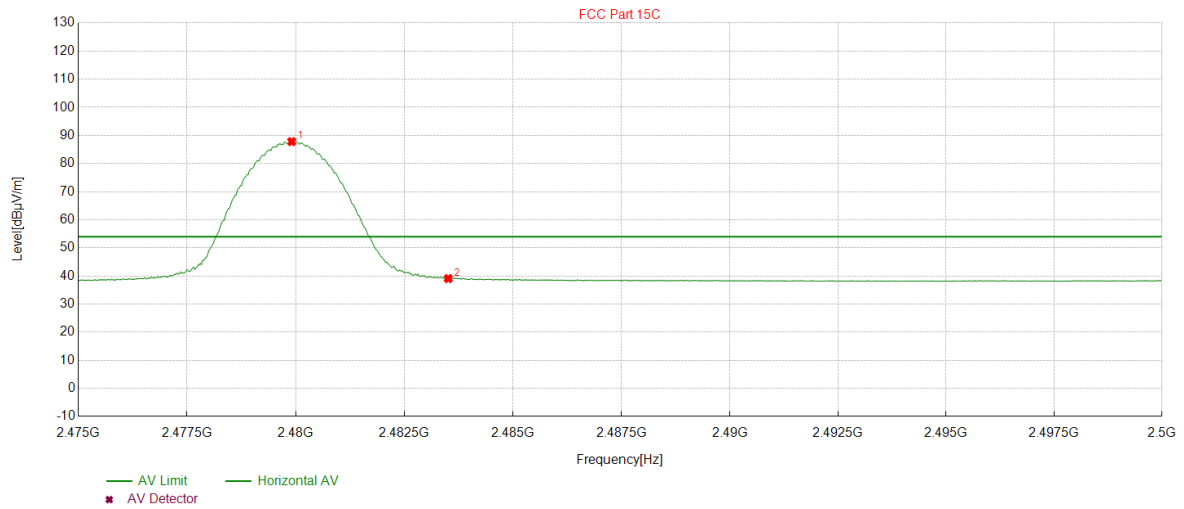
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.2553	95.91	34.65	114.00	28.09	150	318	Horizontal
2	2483.5085	72.85	34.66	74.00	1.15	150	318	Horizontal

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Average Value



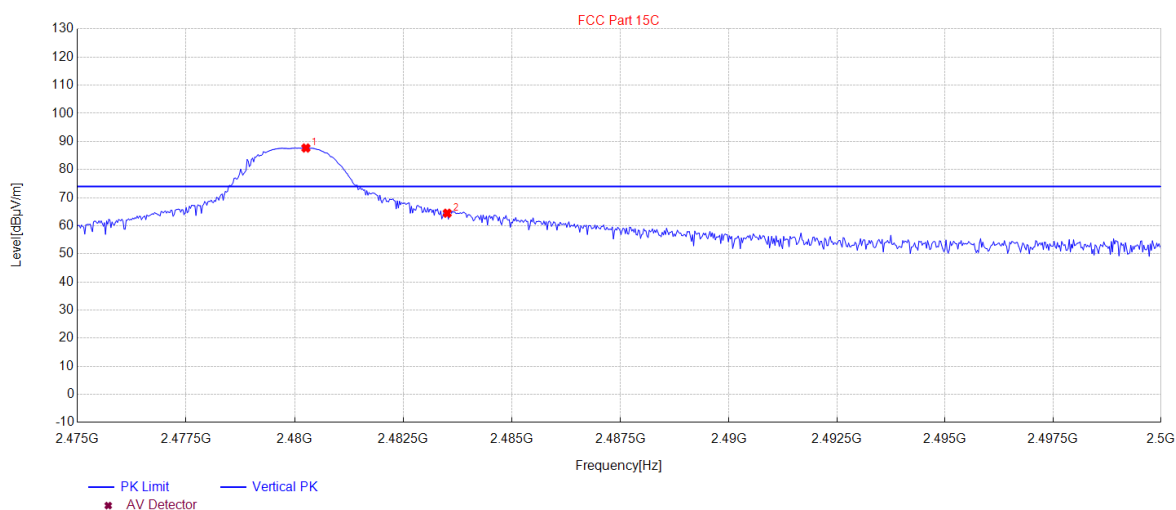
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.9049	87.80	34.65	94.00	6.20	150	318	Horizontal
2	2483.5085	39.08	34.66	54.00	14.92	150	314	Horizontal

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EUT	USB dongle for wireless mouse	Model Name	PK-DRF-03
Temperature	23.7°C	Relative Humidity	59.6%
Pressure	985kPa	Test Voltage	DC 5V by PC
Test Mode	Mode 3	Polarization	Vertical

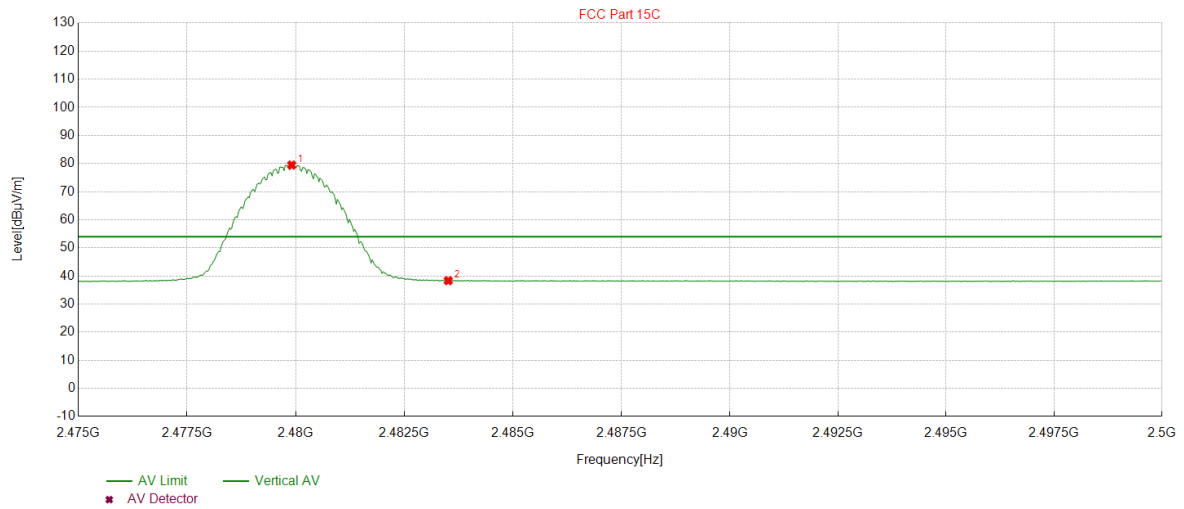
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.2553	87.66	34.65	114.00	26.34	150	163	Vertical
2	2483.5085	64.47	34.66	74.00	9.53	150	181	Vertical

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Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2479.9049	79.46	34.65	94.00	15.54	150	168	Vertical
2	2483.5085	38.32	34.66	54.00	15.68	150	177	Vertical

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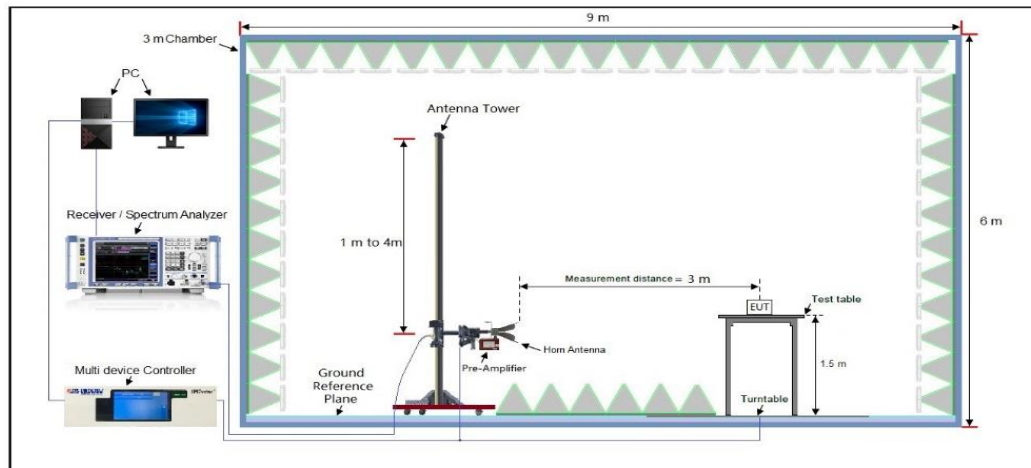
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9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW $\geq 3 \times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

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



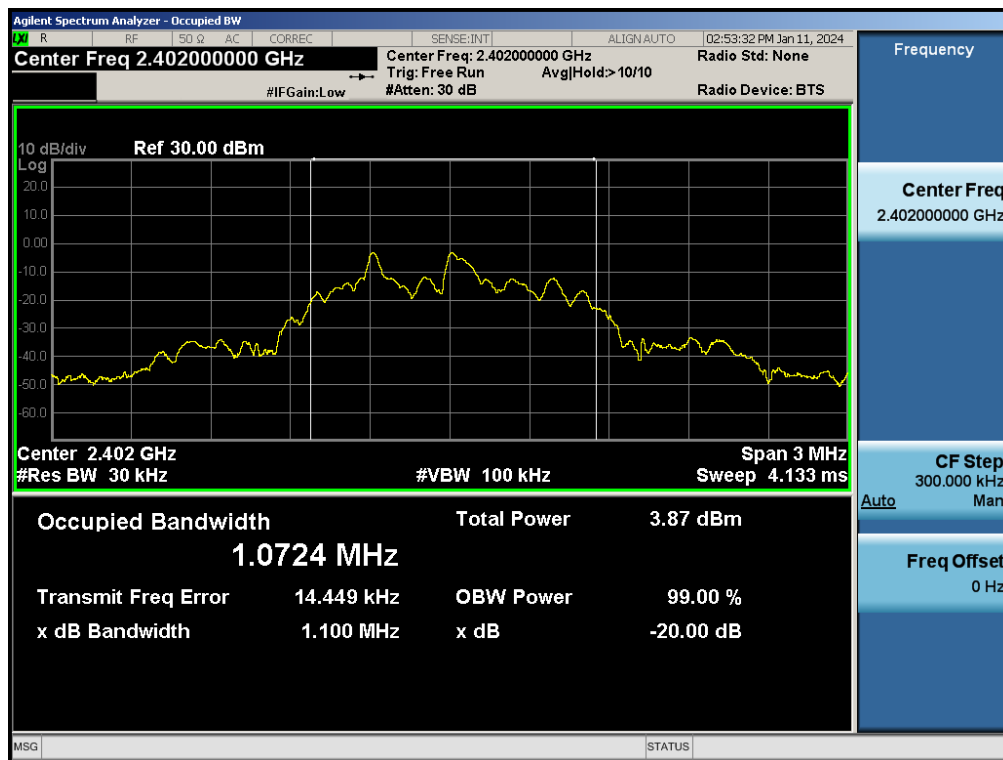
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9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

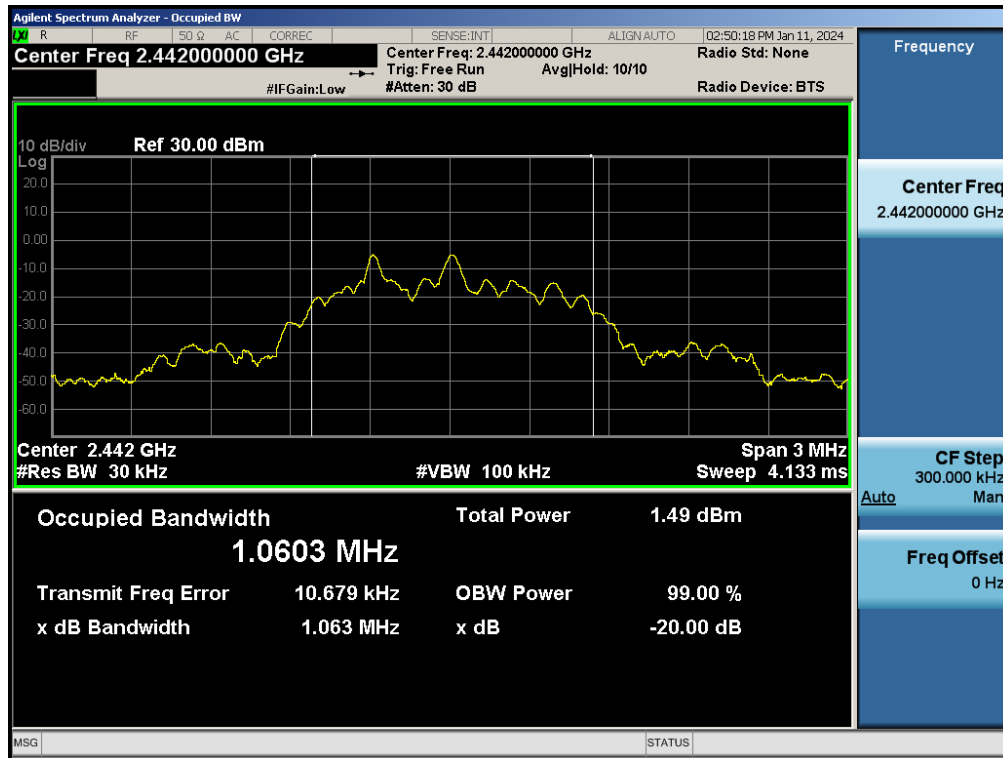
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2402	1.100	1.0724	PASS
2442	1.063	1.0603	PASS
2480	1.101	1.0727	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

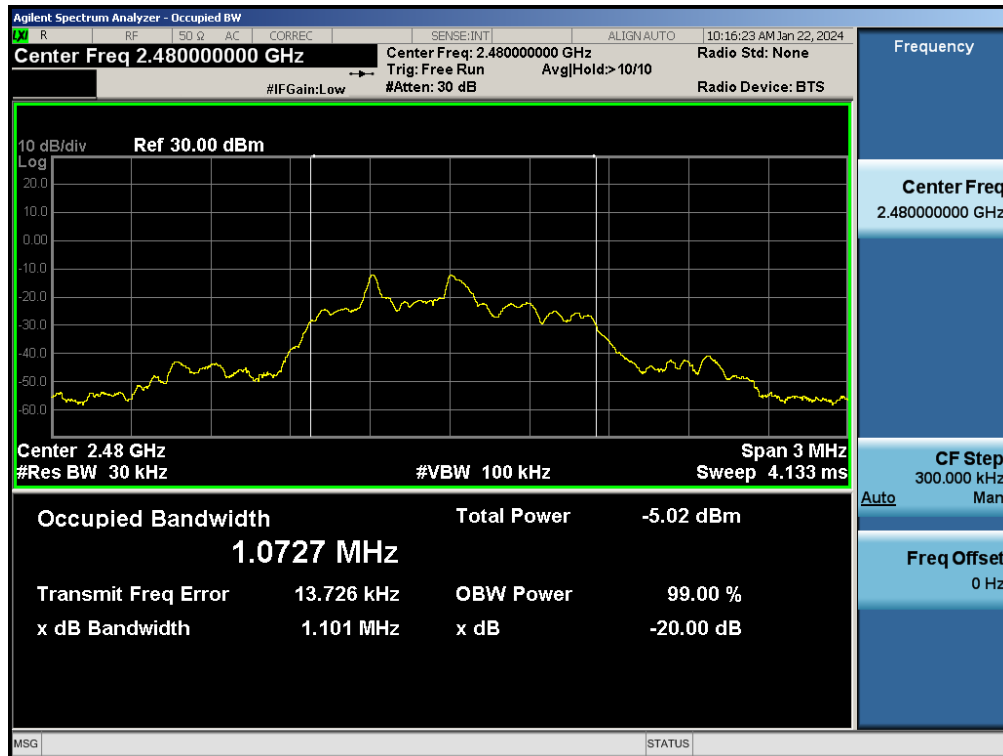


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. FCC LINE CONDUCTED EMISSION TEST

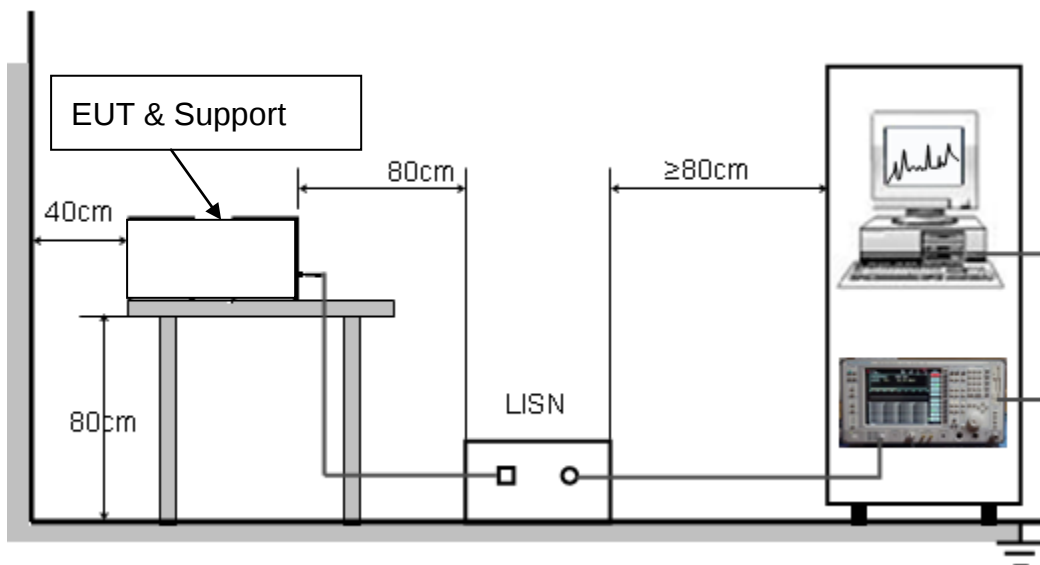
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. 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 PC 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.

10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

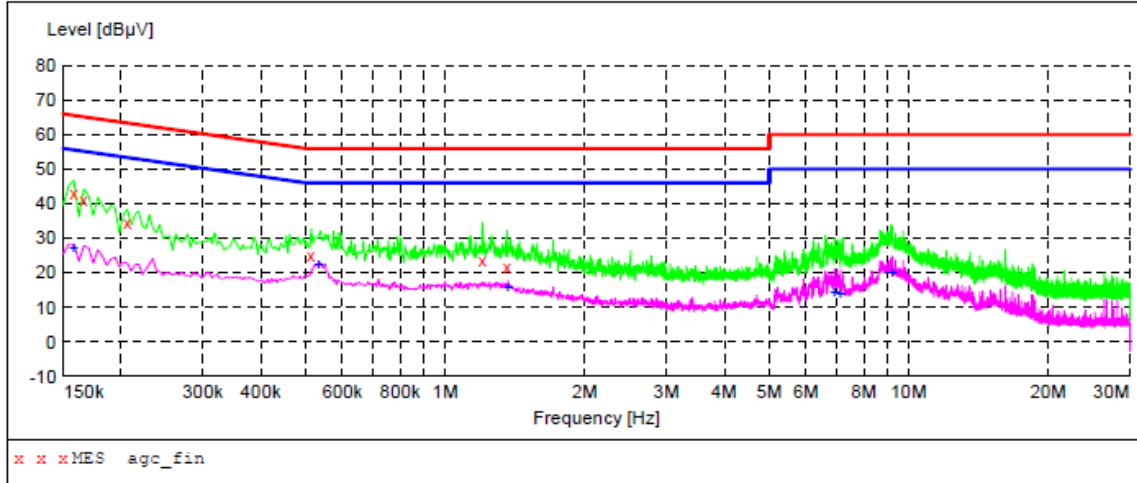
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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.

10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Hot Side
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MEASUREMENT RESULT: "agc_fin"

2023/12/20 10:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	42.90	6.1	66	22.7	QP	L1
0.166000	41.00	6.1	65	24.2	QP	L1
0.206000	34.30	6.1	63	29.1	QP	L1
0.514000	25.00	6.2	56	31.0	QP	L1
1.202000	23.40	6.2	56	32.6	QP	L1
1.358000	21.50	6.2	56	34.5	QP	L1

MEASUREMENT RESULT: "agc_fin2"

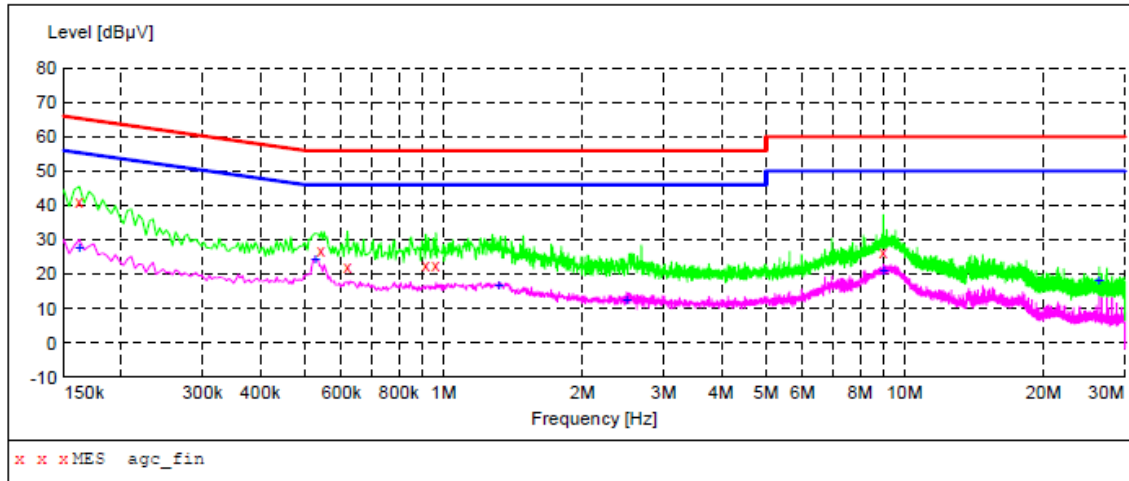
2023/12/20 10:50

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	27.20	6.1	56	28.4	AV	L1
0.534000	22.50	6.2	46	23.5	AV	L1
1.366000	15.90	6.2	46	30.1	AV	L1
6.918000	14.70	6.5	50	35.3	AV	L1
7.134000	14.20	6.5	50	35.8	AV	L1
9.214000	20.40	6.6	50	29.6	AV	L1

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AC Power Line Conducted Emission Test

Test Mode	Mode 1	LISN Line	Neutral Side
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MEASUREMENT RESULT: "agc_fin"

2023/12/20 10:53

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	41.10	6.1	65	24.3	QP	N
0.542000	26.80	6.2	56	29.2	QP	N
0.618000	22.30	6.2	56	33.7	QP	N
0.914000	22.70	6.2	56	33.3	QP	N
0.962000	22.80	6.2	56	33.2	QP	N
8.986000	26.30	6.6	60	33.7	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/12/20 10:53

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	27.90	6.1	55	27.5	AV	N
0.526000	24.60	6.2	46	21.4	AV	N
1.318000	16.70	6.2	46	29.3	AV	N
2.490000	12.70	6.3	46	33.3	AV	N
8.986000	21.40	6.6	50	28.6	AV	N
26.398000	18.20	8.1	50	31.8	AV	N

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC13040231203AP02

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC13040231203AP03

-----END OF REPORT-----

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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