

47 CFR PART 15 SUBPART C TEST REPORT

for

TPMS Trigger

Model No.: TT03

FCC ID: HQXTT03

of

Applicant: Sysgration Ltd.

Address: 6F.,No.1,Sec.1,Tiding Blvd.,Neihu Dist. Taipei City 114 Taiwan

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

**FCC Registration No.: TW1072, TW1140, TW1141, TW1146,
TW1477, TW0200, TW0037**

Industry Canada filed test laboratory Reg. No.: 20037, 5107A, 31634



Report No.: W6M22404-23411-C-2

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wtst@wtst-lab.com



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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

May 24, 2024

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 24, 2024

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)

Xizhi Lab

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1141, TW1146, TW1477,
TW0200, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 5107A, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

1.3 Details of approval holder

Name: Sysgration Ltd.
Street: 6F.,No.1,Sec.1,Tiding Blvd.,Neihu Dist.
City: Taipei City 114
Country: Taiwan

1.4 Application details

Date of receipt of test item: May 02, 2024
Date of test: from May 03, 2024 to May 24, 2024

1.5 General information of Test item

Type of test item: TPMS Trigger
Model number: TT03
Multi-listing model number: ./.
Sample no.: #10

Technical data

Frequency band: 2440 MHz
Operation frequency: 2440 MHz
Operation modes: Simplex
Modulation type: GFSK
Antenna type: Chip Antenna
Antenna gain: 5.19 dBi
Power supply: USB 5Vd.c.
Battery 7.2Vd.c., 3180mAh, 22.89Wh

Manufacturer: (if different from applicant)

Name: Sysgration Electronics Technology
(HuiZhou) Company,Limited.
Street: YuXin Science Park 3rd Floor, Long Shan 7 Rd.,
XiangShuiHe Industrial Zone, DaYaWan,
Town: HuiZhou City, GuangDong Province,
Country: China

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.249 (2023-10)



Registration number: W6M22404-23411-C-2

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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations were ascertained in the course of the tests performed. ☐

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details Power supply: USB 5Vd.c.
Battery 7.2Vd.c., 3180mAh, 22.89Wh

Extreme conditions parameters: Not required

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 0.94 dB Voltage probe : 0.96 dB Include Pulse Limiter : 1.5 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Peak Output Power (transmitter), Equivalent isotropic radiated power, RF Exposure Compliance Requirements, Out of Band Radiated Emissions, Spurious emission (tx), Radiated Emissions from Receiver Part)	Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 3.20 dB 1-18 GHz : 3.56 dB 18-40 GHz : 2.94 dB
Estimation Result of Uncertainty of Band Edge Measurement (Radiated Emission on the band edge)	Expanded Uncertainty : 0.67 dBc
Estimation Result of Uncertainty of Bandwidth Measurement (Occupied Bandwidth)	Expanded Uncertainty : 0.45 kHz

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



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2.3 Test Equipment List

Duty Cycle

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2024/3/7	2025/3/6
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15

Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2023/9/20	2024/9/19
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2024/2/16	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2023/7/14	2024/7/13
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380& AT-06007	SCHWARZBECK &EMC	2024/3/4	2025/3/3
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2024/2/29	2025/2/28
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2023/7/14	2024/7/13
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2023/7/14	2024/7/13
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2023/7/14	2024/7/13
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	

AC Conducted Emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2023/6/12	2024/6/11
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2023/10/26	2024/10/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-Cable 093	BNC Cable (3m)	EMCCFD-300 -BM- BM-3000	240109	EMCI	2024/1/10	2025/1/9
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



Registration number: W6M22404-23411-C-2

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

ANSI STANDARD C63.10-2013 B.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



Worldwide Testing Services(Taiwan) Co., Ltd.

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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.249 (a)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.249 (e)	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.249 (e)	☐	☐	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (d)(e) 15.35 (b)	☒	☒	☐
20 dB Bandwidth	15.215 (c)	☒	☒	☐
Power Line Conducted Emission	15.207	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M22404-23411-C-2

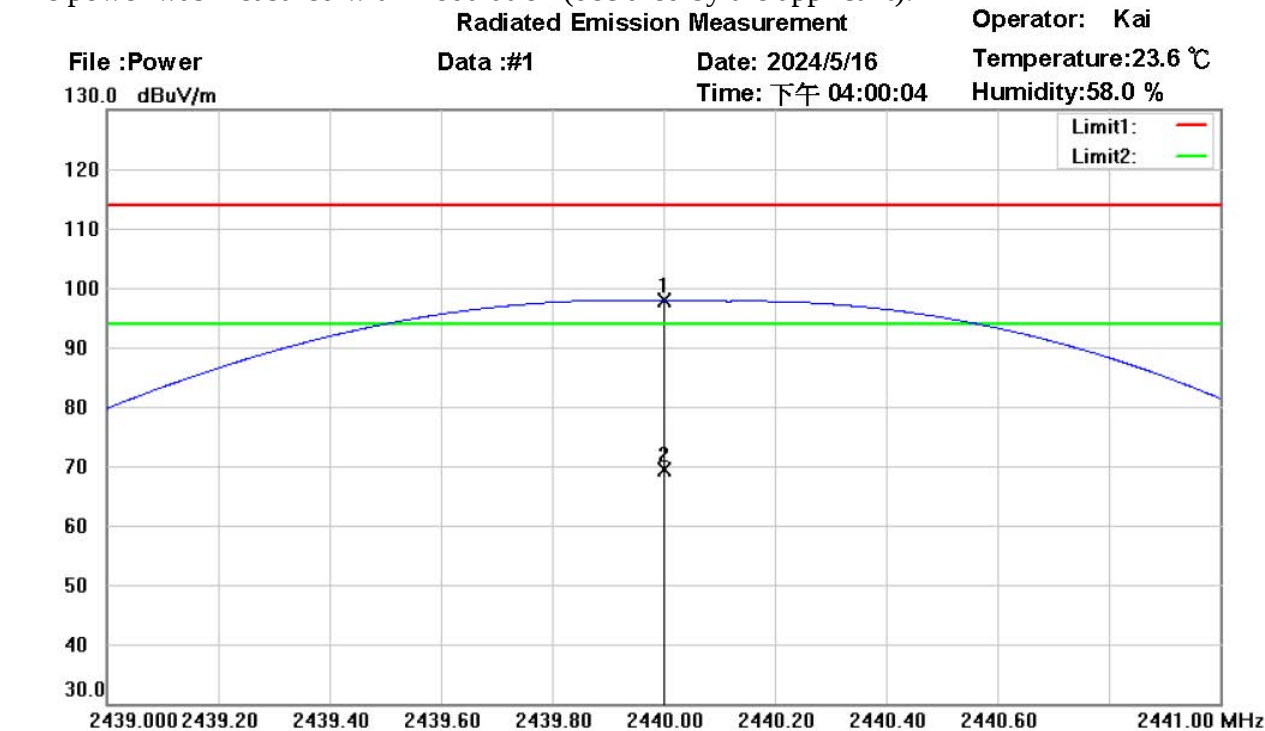
FCC ID: HQXTT03

3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (a)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).



Site : 966A Chamber

Condition : FCC 15.249 power_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2439.999	65.77	peak	32.19	97.96	114.00	150	36	-16.04	
	2439.999	37.23	AVG	32.19	69.42	94.00	150	36	-24.58	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Radiated Emission Measurement

Operator: Kai

File :Power

Data :#2

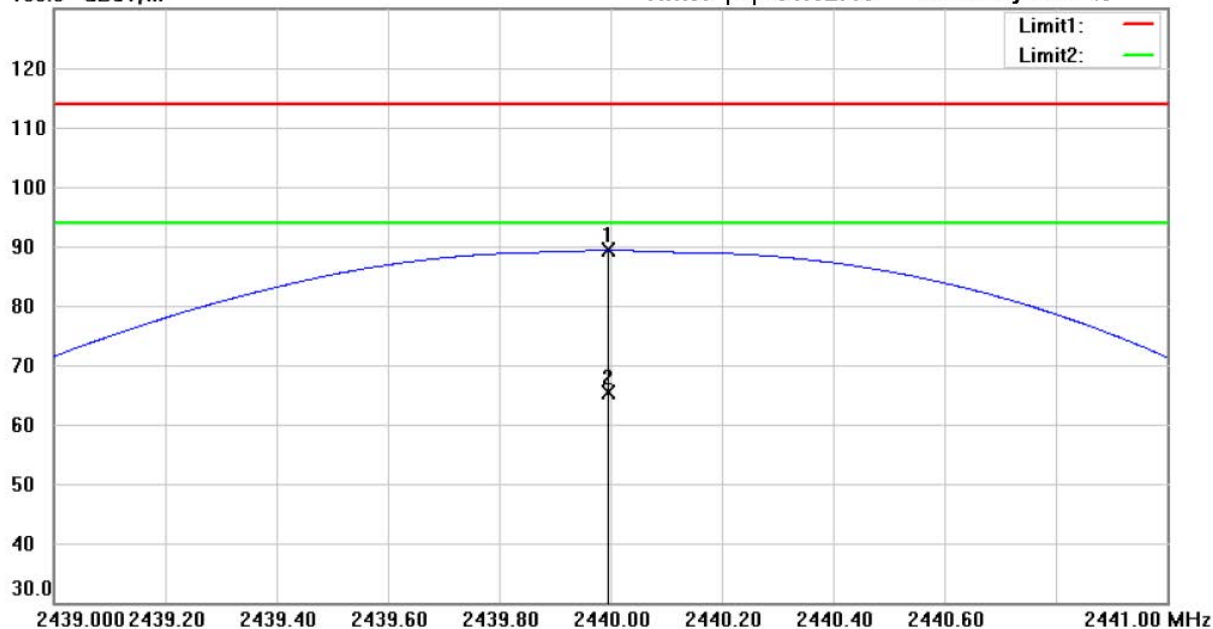
Date: 2024/5/16

Temperature:23.6 ℃

130.0 dBuV/m

Time: 下午 04:02:10

Humidity:58.0 %



Site : 966A Chamber

Condition : FCC 15.249 power_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2439.996	57.11	peak	32.19	89.30	114.00	150	310	-24.70	
	2439.996	33.18	AVG	32.19	65.37	94.00	150	310	-28.63	



Registration number: W6M22404-23411-C-2

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3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35 (b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74\text{dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Explanation: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: HQXTT03

3.5 Spurious emission (tx)

Spurious emission was measured with modulation (declared by manufacturer).

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth. Emissions more than 20 dB below the limit do not need to be reported.

SAMPLE CALCULATION OF LIMIT. ALL results will be updated by an automatic measuring system in accordance with point 2.3.

The peak and average spurious emission plots was measured with the average limits.
The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model: TT03

Date: --

Mode: --

Temperature: -- °C

Engineer: --

Polarization: Horizontal

Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Note

1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Up Line: PK Limit Line, Down Line: Ave Limit Line.**
6. **Please see attached diagrams in appendix.**

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.



Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: HQXTT03

3.6 Radiated Emissions from Receiver Part

Summary table with radiated data of the test plots

Model: TT03 Date: --
Mode: -- Temperature: -- °C Engineer: --
Polarization: Horizontal Humidity: -- %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Note

1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Up Line: PK Limit Line, Down Line: Ave Limit Line.**
6. **This test is not required because the EUT is transmitter only**

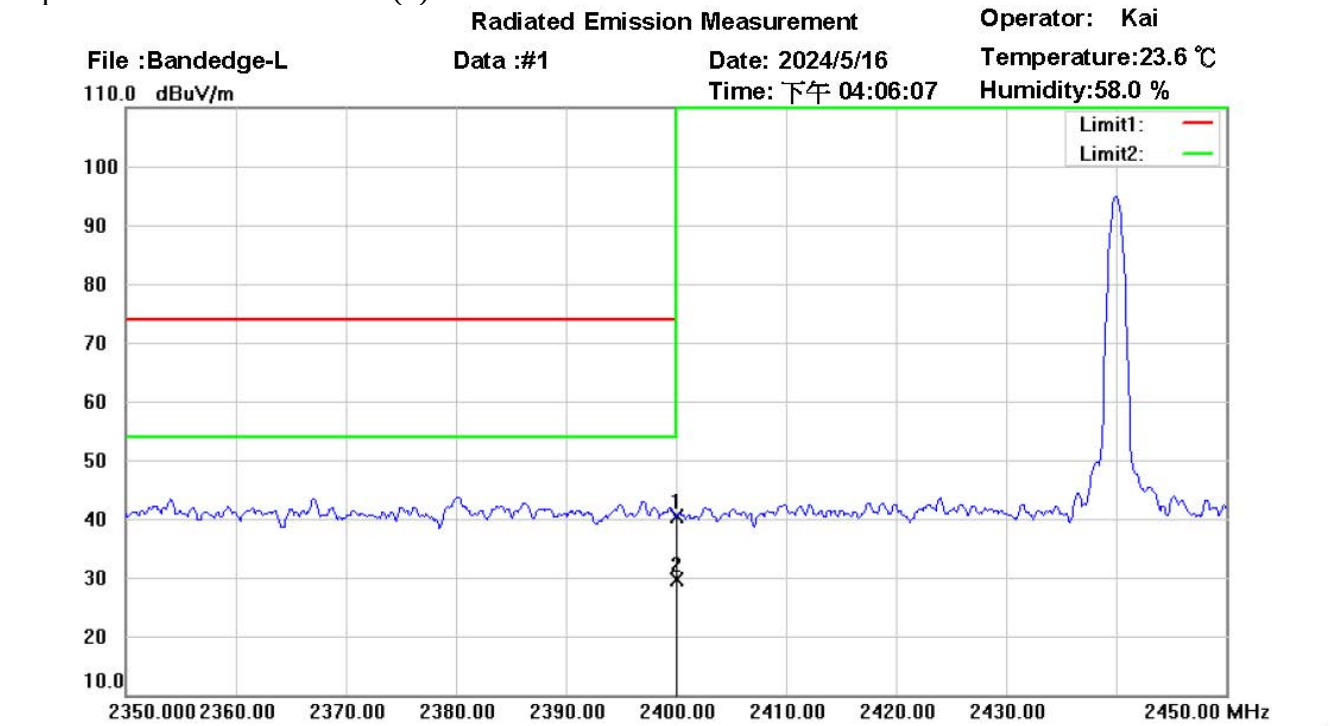


Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : 966A Chamber

Condition : FCC 15.249 PK (Bandedge)

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2400.000	45.33	peak	-4.99	40.34	74.00	150	36	-33.66	
*	2400.000	34.50	AVG	-4.99	29.51	54.00	150	36	-24.49	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Radiated Emission Measurement

Operator: Kai

File :Bandedge-L

Data :#2

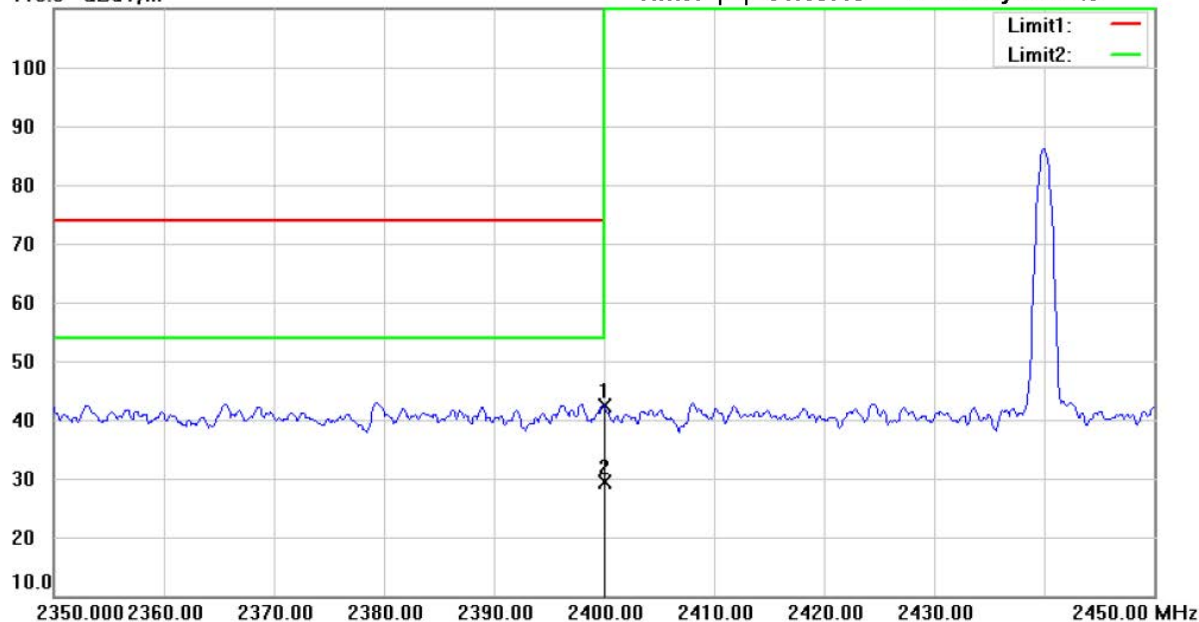
Date: 2024/5/16

Temperature:23.6 °C

110.0 dBuV/m

Time: 下午 04:09:45

Humidity:58.0 %



Site : 966A Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Vertical*

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

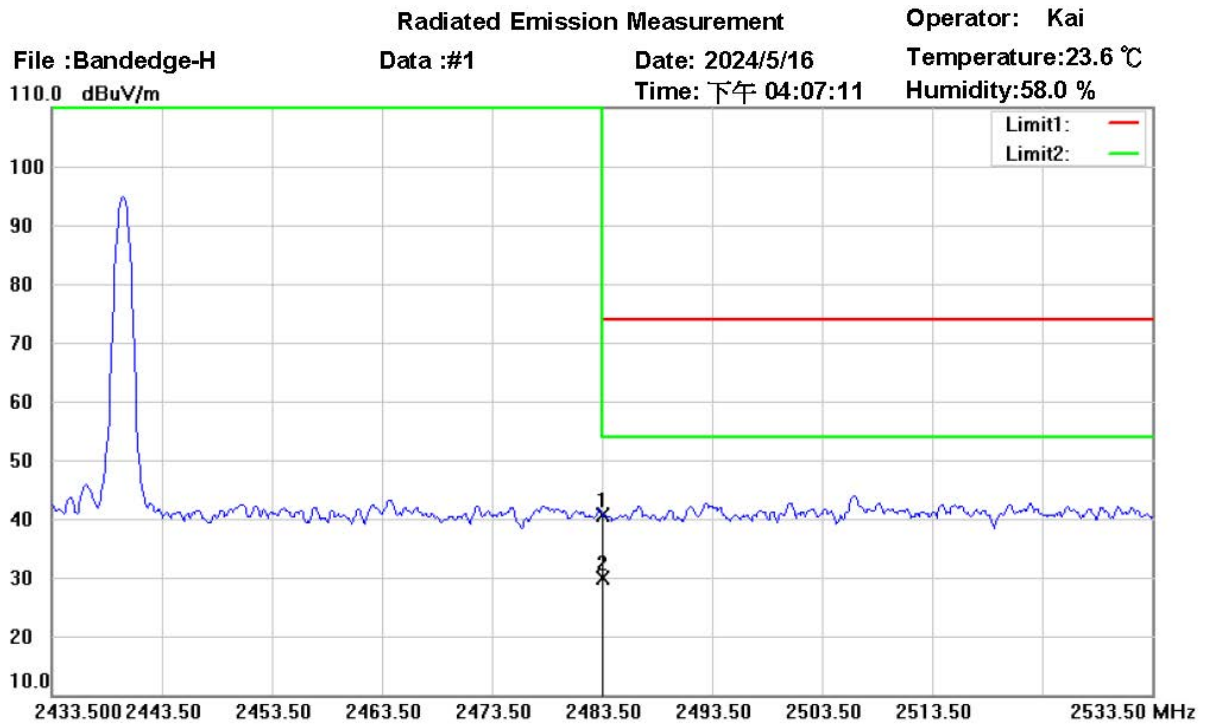
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2400.000	47.42	peak	-4.99	42.43	74.00	150	310	-31.57	
*	2400.000	34.49	AVG	-4.99	29.50	54.00	150	310	-24.50	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2
FCC ID: HQXTT03



Site : 966A Chamber

Condition : FCC 15.249 PK (Bandedge)

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	45.62	peak	-4.92	40.70	74.00	150	36	-33.30	
*	2483.500	34.70	AVG	-4.92	29.78	54.00	150	36	-24.22	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Radiated Emission Measurement

Operator: Kai

File :Bandedge-H

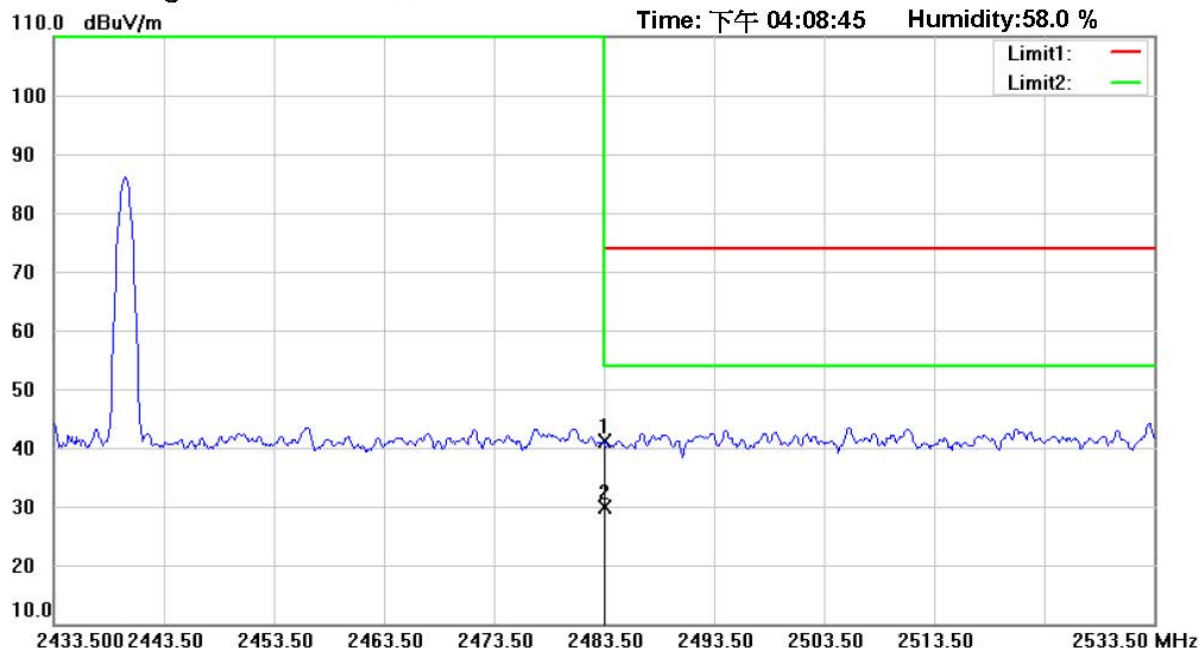
Data :#2

Date: 2024/5/16

Temperature:23.6 °C

Time: 下午 04:08:45

Humidity:58.0 %



Site : 966A Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: **Vertical**

EUT : W6M22404-23411

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	45.94	peak	-4.92	41.02	74.00	150	310	-32.98	
*	2483.500	34.69	AVG	-4.92	29.77	54.00	150	310	-24.23	

Limit:

Frequency Range (MHz)	Limit (dBμV/m)	
	Peak	Average
2440	74	54



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3.8 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

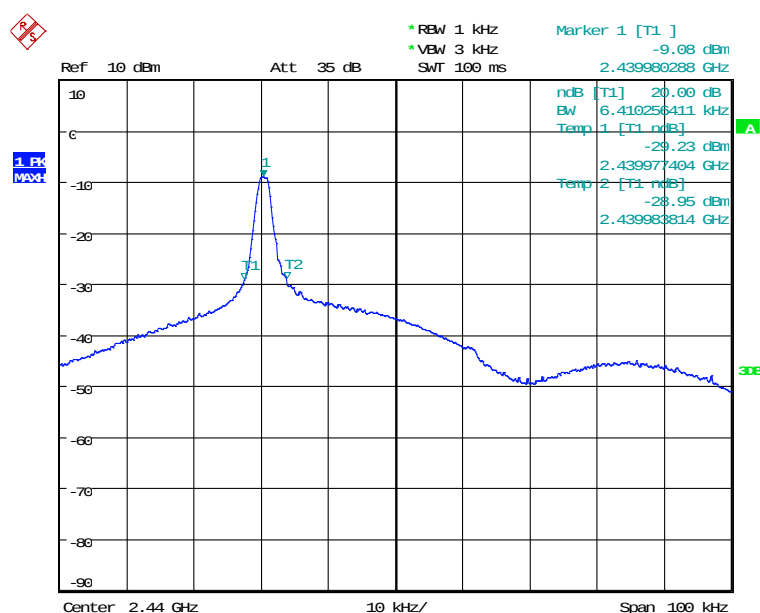
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Test date: May 23, 2024

Temperature: 31.9 °C

Humidity: 60.0 %

Tester: Rick



20DB BANDWIDTH
Date: 23.MAY.2024 15:53:52

Limits:

Frequency Range / MHz	Limit
906	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

3.8.1 System Receiver Input Bandwidth

It is determined in the Bluetooth core specification. The value matches to the bandwidth of transmitter signal.



Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

3.9 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Conducted Emission Measurement

Operator: Tara

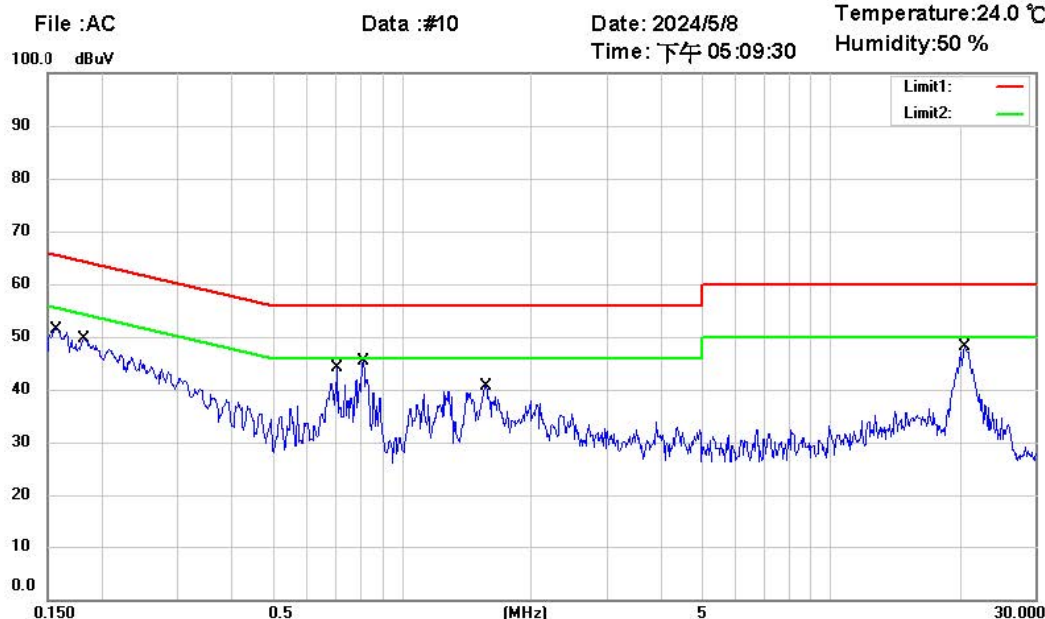
Data :#10

Date: 2024/5/8

Temperature:24.0 °C

Time: 下午 05:09:30

Humidity:50 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1573	36.02	QP	9.64	45.66	65.61	-19.95	
	0.1573	19.14	AVG	9.64	28.78	55.61	-26.83	
	0.1822	33.89	QP	9.64	43.53	64.38	-20.85	
	0.1822	17.81	AVG	9.64	27.45	54.38	-26.93	
	0.7070	21.53	QP	9.67	31.20	56.00	-24.80	
	0.7070	10.46	AVG	9.67	20.13	46.00	-25.87	
	0.8127	27.54	QP	9.67	37.21	56.00	-18.79	
*	0.8127	19.23	AVG	9.67	28.90	46.00	-17.10	
	1.5620	20.29	QP	9.69	29.98	56.00	-26.02	
	1.5620	5.41	AVG	9.69	15.10	46.00	-30.90	
	20.5500	31.68	QP	10.05	41.73	60.00	-18.27	
	20.5500	13.13	AVG	10.05	23.18	50.00	-26.82	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

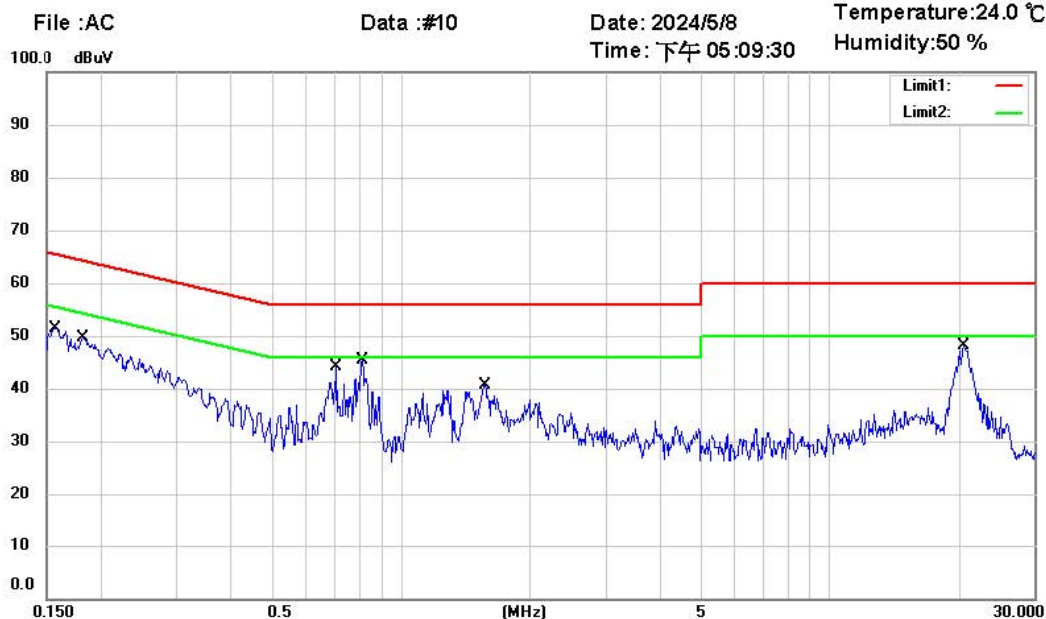
Mode 1: TX 125kHz+RX 315MHz+Charge

Conducted Emission Measurement

Operator: Tara

Temperature: 24.0 °C

Humidity: 50 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1573	36.02	QP	9.64	45.66	65.61	-19.95	
	0.1573	19.14	AVG	9.64	28.78	55.61	-26.83	
	0.1822	33.89	QP	9.64	43.53	64.38	-20.85	
	0.1822	17.81	AVG	9.64	27.45	54.38	-26.93	
	0.7070	21.53	QP	9.67	31.20	56.00	-24.80	
	0.7070	10.46	AVG	9.67	20.13	46.00	-25.87	
	0.8127	27.54	QP	9.67	37.21	56.00	-18.79	
*	0.8127	19.23	AVG	9.67	28.90	46.00	-17.10	
	1.5620	20.29	QP	9.69	29.98	56.00	-26.02	
	1.5620	5.41	AVG	9.69	15.10	46.00	-30.90	
	20.5500	31.68	QP	10.05	41.73	60.00	-18.27	
	20.5500	13.13	AVG	10.05	23.18	50.00	-26.82	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Mode 2: TX 125kHz+RX 434MHz+Charge

Conducted Emission Measurement

Operator: Tara

Data :#8

Date: 2024/5/8

Temperature:24.0 °C

Time: 下午 05:04:00

Humidity:50 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1724	27.33	QP	9.64	36.97	64.84	-27.87	
	0.1724	4.63	AVG	9.64	14.27	54.84	-40.57	
	0.7070	28.33	QP	9.67	38.00	56.00	-18.00	
*	0.7070	20.51	AVG	9.67	30.18	46.00	-15.82	
	0.8307	23.98	QP	9.67	33.65	56.00	-22.35	
	0.8307	15.17	AVG	9.67	24.84	46.00	-21.16	
	1.2808	25.07	QP	9.69	34.76	56.00	-21.24	
	1.2808	13.46	AVG	9.69	23.15	46.00	-22.85	
	1.5800	22.33	QP	9.69	32.02	56.00	-23.98	
	1.5800	4.89	AVG	9.69	14.58	46.00	-31.42	
	20.7000	31.44	QP	10.05	41.49	60.00	-18.51	
	20.7000	12.79	AVG	10.05	22.84	50.00	-27.16	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Conducted Emission Measurement

Operator: Tara

Data :#7

Date: 2024/5/8

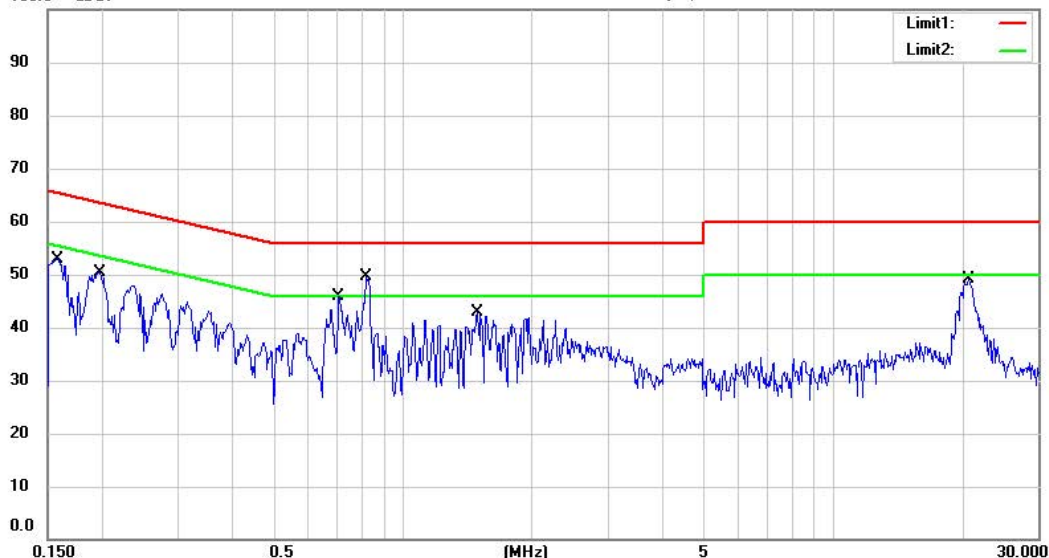
Temperature:24.0 °C

Time: 下午 05:01:48

Humidity:50 %

File :AC

100.0 dBuV



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1575	26.22	QP	9.66	35.88	65.59	-29.71	
	0.1575	14.28	AVG	9.66	23.94	55.59	-31.65	
	0.1978	18.25	QP	9.65	27.90	63.70	-35.80	
	0.1978	-1.25	AVG	9.65	8.40	53.70	-45.30	
	0.7070	19.04	QP	9.67	28.71	56.00	-27.29	
	0.7070	4.13	AVG	9.67	13.80	46.00	-32.20	
	0.8195	26.45	QP	9.67	36.12	56.00	-19.88	
	0.8195	9.37	AVG	9.67	19.04	46.00	-26.96	
	1.4900	19.90	QP	9.69	29.59	56.00	-26.41	
	1.4900	0.69	AVG	9.69	10.38	46.00	-35.62	
*	20.6875	31.80	QP	9.89	41.69	60.00	-18.31	
	20.6875	13.52	AVG	9.89	23.41	50.00	-26.59	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Mode 3: TX 2440MHz+RX BLE+Charge

Conducted Emission Measurement

Operator: Tara

Temperature: 24.0 °C

Humidity: 50 %

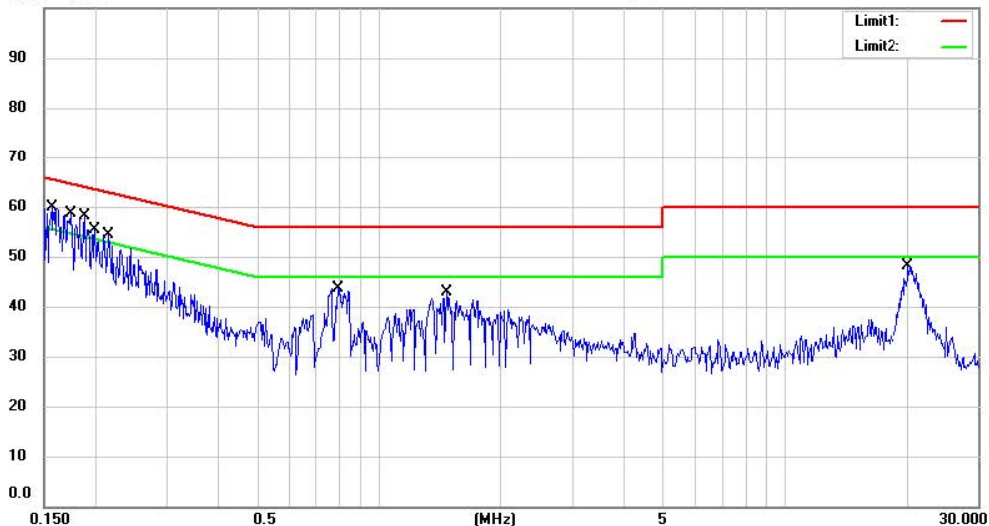
File : AC

Data : #6

Date: 2024/5/8

Time: 下午 04:57:21

100.0 dBuV



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 3

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1565	28.35	QP	9.64	37.99	65.65	-27.66	
	0.1565	16.47	AVG	9.64	26.11	55.65	-29.54	
	0.1736	26.14	QP	9.64	35.78	64.79	-29.01	
	0.1736	5.60	AVG	9.64	15.24	54.79	-39.55	
*	0.1880	35.94	QP	9.64	45.58	64.12	-18.54	
	0.1880	18.41	AVG	9.64	28.05	54.12	-26.07	
	0.1988	19.55	QP	9.64	29.19	63.66	-34.47	
	0.1988	0.01	AVG	9.64	9.65	53.66	-44.01	
	0.2151	25.52	QP	9.64	35.16	63.01	-27.85	
	0.2151	9.49	AVG	9.64	19.13	53.01	-33.88	
	0.7947	22.79	QP	9.67	32.46	56.00	-23.54	
	0.7947	11.74	AVG	9.67	21.41	46.00	-24.59	
	1.4698	23.24	QP	9.69	32.93	56.00	-23.07	
	1.4698	9.35	AVG	9.69	19.04	46.00	-26.96	
	20.1000	29.92	QP	10.04	39.96	60.00	-20.04	
	20.1000	12.36	AVG	10.04	22.40	50.00	-27.60	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22404-23411-C-2

FCC ID: HQXTT03

Conducted Emission Measurement

Operator: Tara

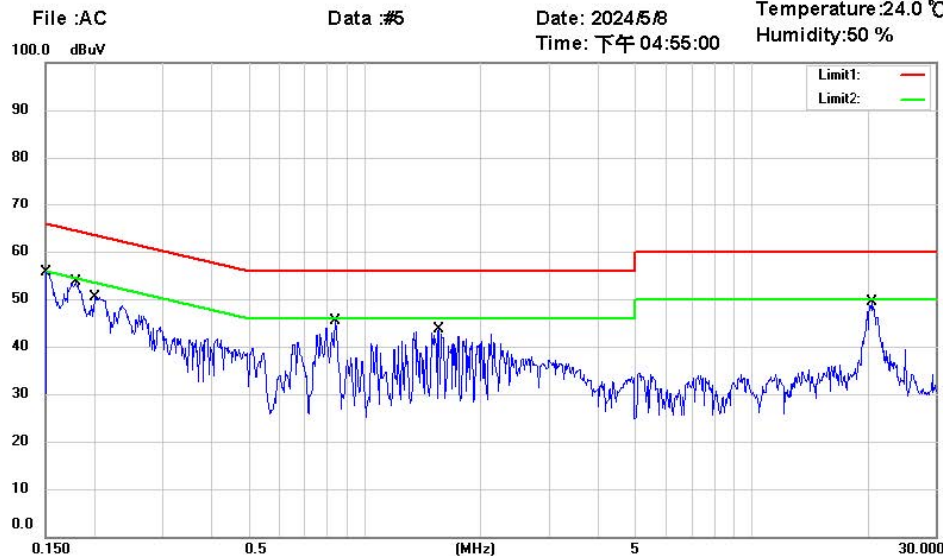
Data :#5

Date: 2024/5/8

Temperature:24.0 °C

Time: 下午 04:55:00

Humidity:50 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22404-23411

Power : 120 V.a.c.

M/N:

Test Mode : Mode 3

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1507	35.50	QP	9.66	45.16	65.96	-20.80	
	0.1507	20.36	AVG	9.66	30.02	55.96	-25.94	
	0.1790	38.31	QP	9.65	47.96	64.53	-16.57	
	0.1790	21.54	AVG	9.65	31.19	54.53	-23.34	
	0.2004	32.91	QP	9.65	42.56	63.59	-21.03	
	0.2004	15.73	AVG	9.65	25.38	53.59	-28.21	
*	0.8420	31.38	QP	9.67	41.05	56.00	-14.95	
	0.8420	14.57	AVG	9.67	24.24	46.00	-21.76	
	1.5553	23.25	QP	9.69	32.94	56.00	-23.06	
	1.5553	6.87	AVG	9.69	16.56	46.00	-29.44	
	20.5000	31.17	QP	9.89	41.06	60.00	-18.94	
	20.5000	13.60	AVG	9.89	23.49	50.00	-26.51	

- Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Up Line: QP Limit Line, Down Line: Ave Limit Line.

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50



Registration number: W6M22404-23411-C-2
FCC ID: HQXTT03

Appendix

Measurement diagrams

Spurious Emissions radiated



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 1_2

Data : #1

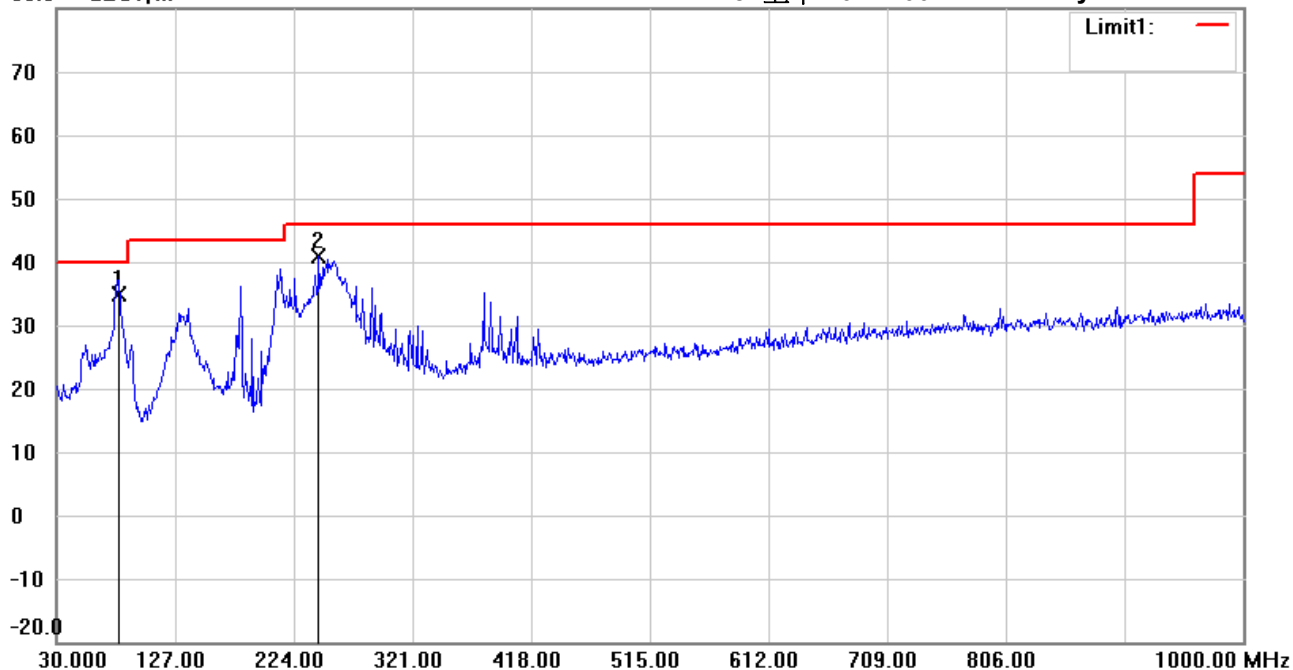
Date: 2024/5/17

Temperature: 23.9 °C

80.0 dBuV/m

Time: 上午 10:24:00

Humidity: 56.9 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	79.9550	52.36	QP	-17.36	35.00	40.00	100	242	-5.00	
	244.3700	54.79	peak	-13.93	40.86	46.00	100	136	-5.14	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 1_2

Data : #2

Date: 2024/5/17

Temperature: 23.9 °C

80.0 dBuV/m

Time: 上午 10:24:44

Humidity: 56.9 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	54.2500	48.97	peak	-12.75	36.22	40.00	100	95	-3.78	
*	80.9250	53.78	peak	-17.47	36.31	40.00	100	306	-3.69	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #1

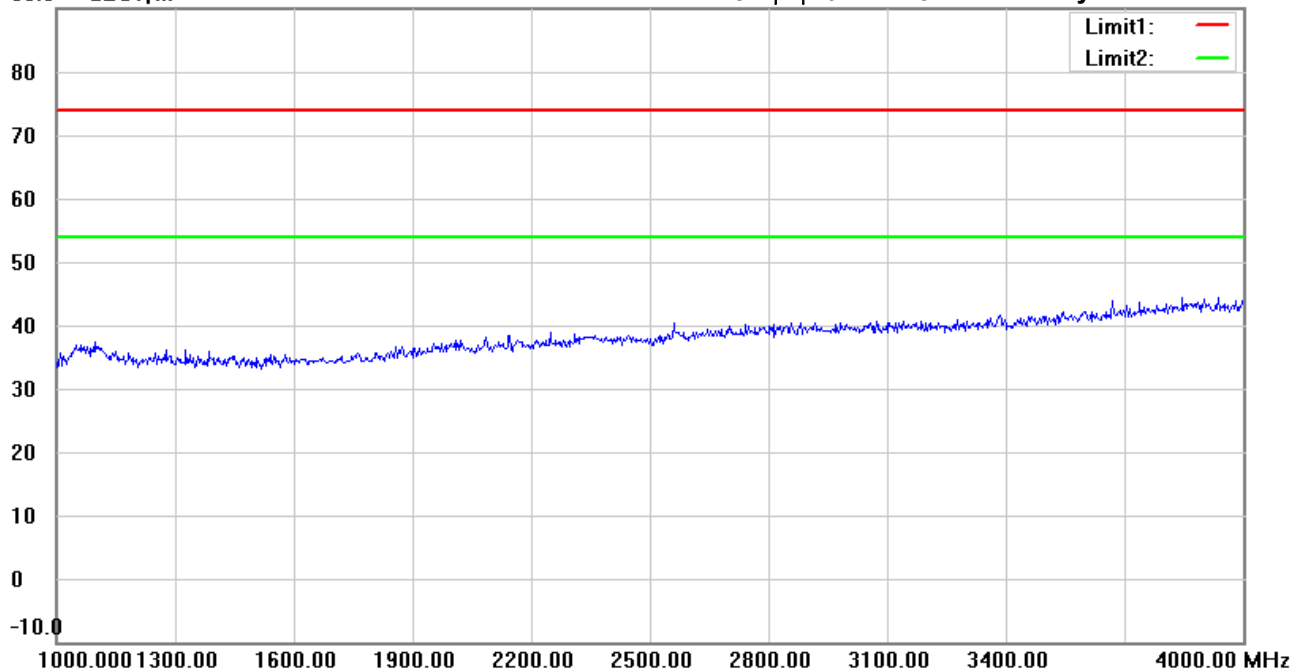
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:12:25

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address:No.99,Sec.1,Balian Rd.,Xizhi Dist.,New Taipei City
Tel:+886-2-2646-1508
Fax:+886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File :3

Data :#6

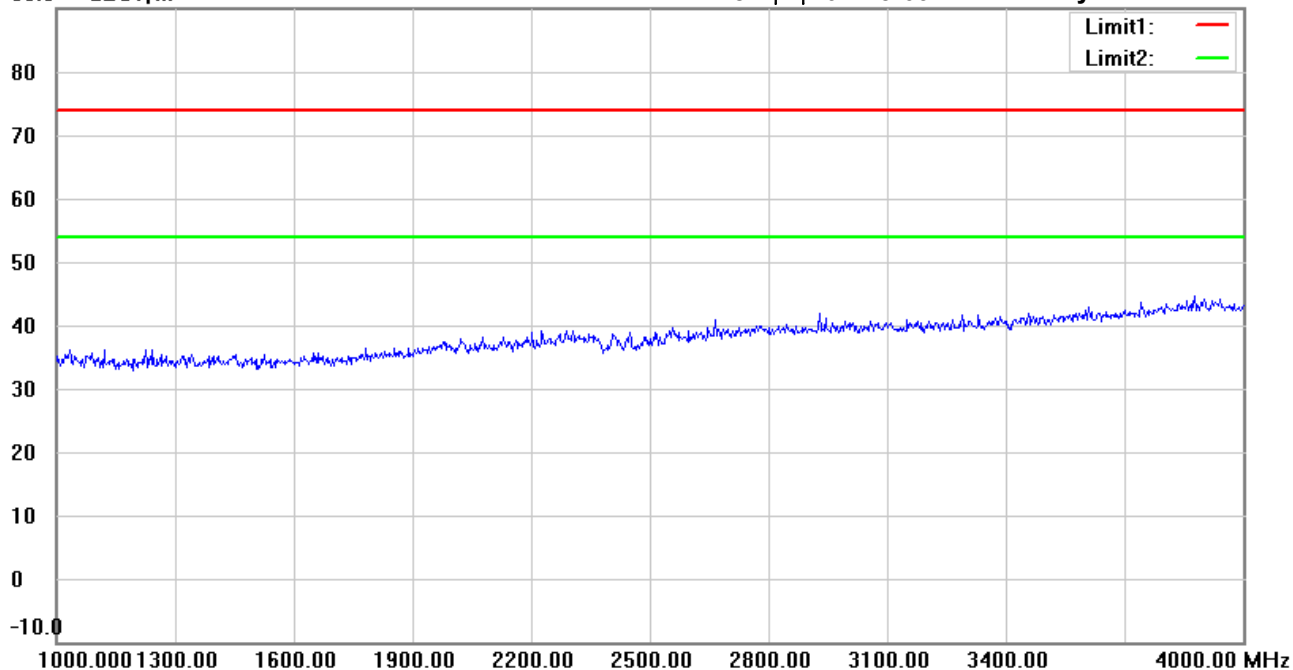
Date: 2024/5/16

Temperature:23.6 °C

90.0 dBuV/m

Time: 下午 04:15:09

Humidity:58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Vertical*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #2

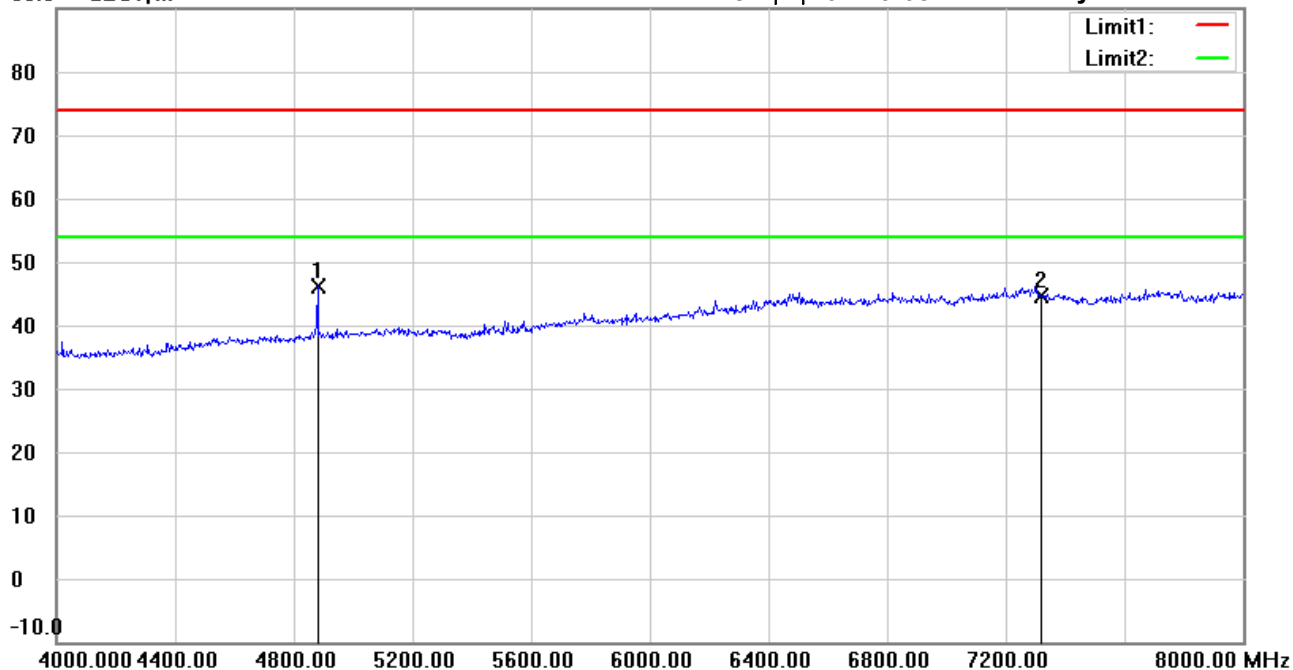
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:13:08

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Horizontal**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	4880.000	41.46	peak	4.69	46.15	74.00	150	233	-27.85	
	7320.000	33.46	peak	11.27	44.73	74.00	150	30	-29.27	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #7

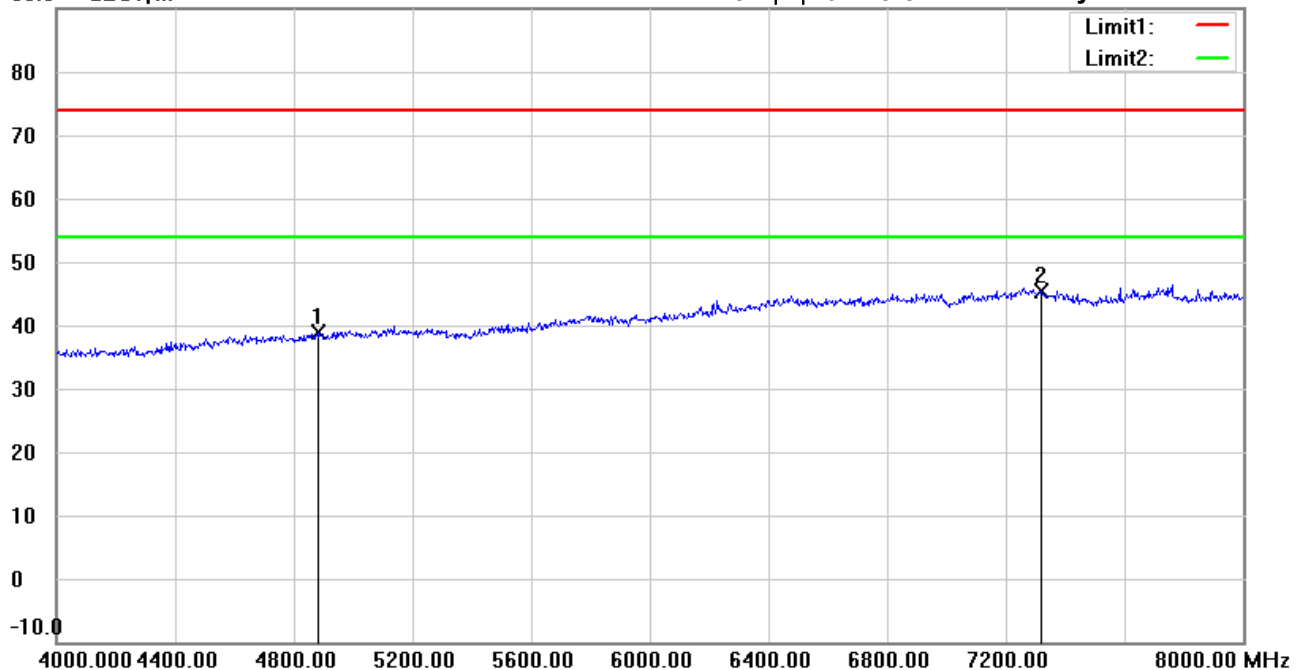
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:15:52

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4880.000	34.12	peak	4.69	38.81	74.00	150	25	-35.19	
*	7320.000	34.06	peak	11.27	45.33	74.00	150	271	-28.67	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #3

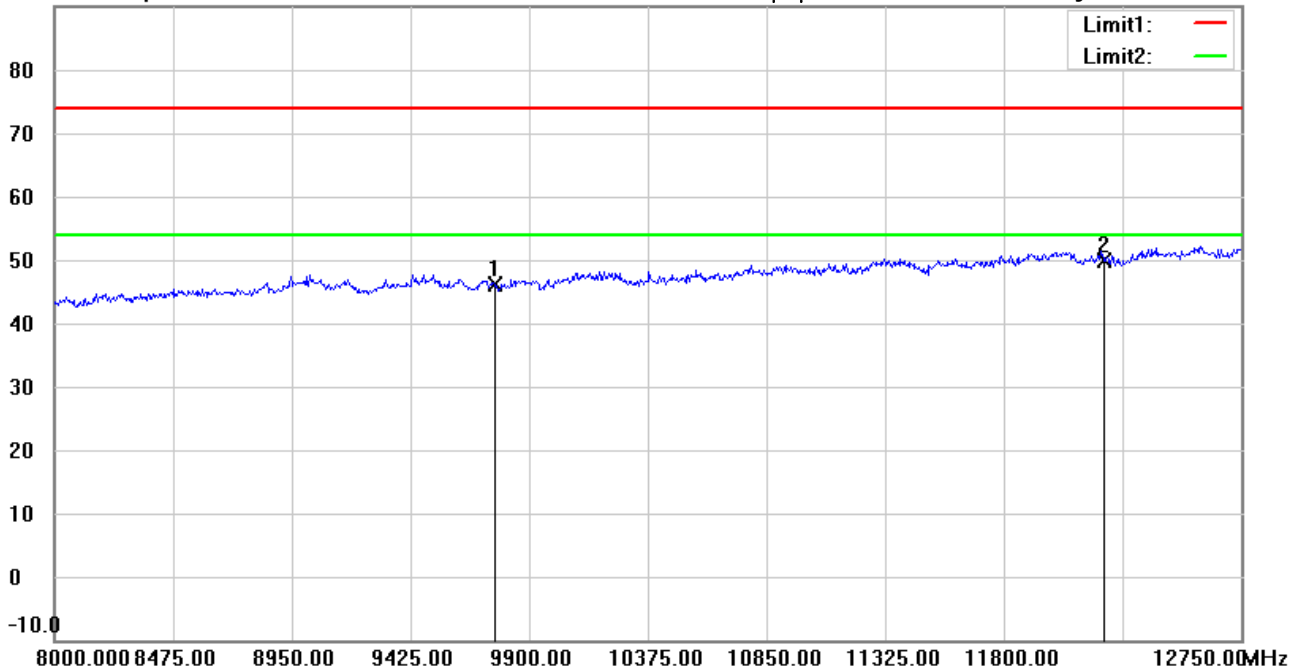
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:13:57

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	33.00	peak	13.15	46.15	74.00	150	299	-27.85	
*	12200.000	33.36	peak	16.63	49.99	74.00	150	320	-24.01	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #8

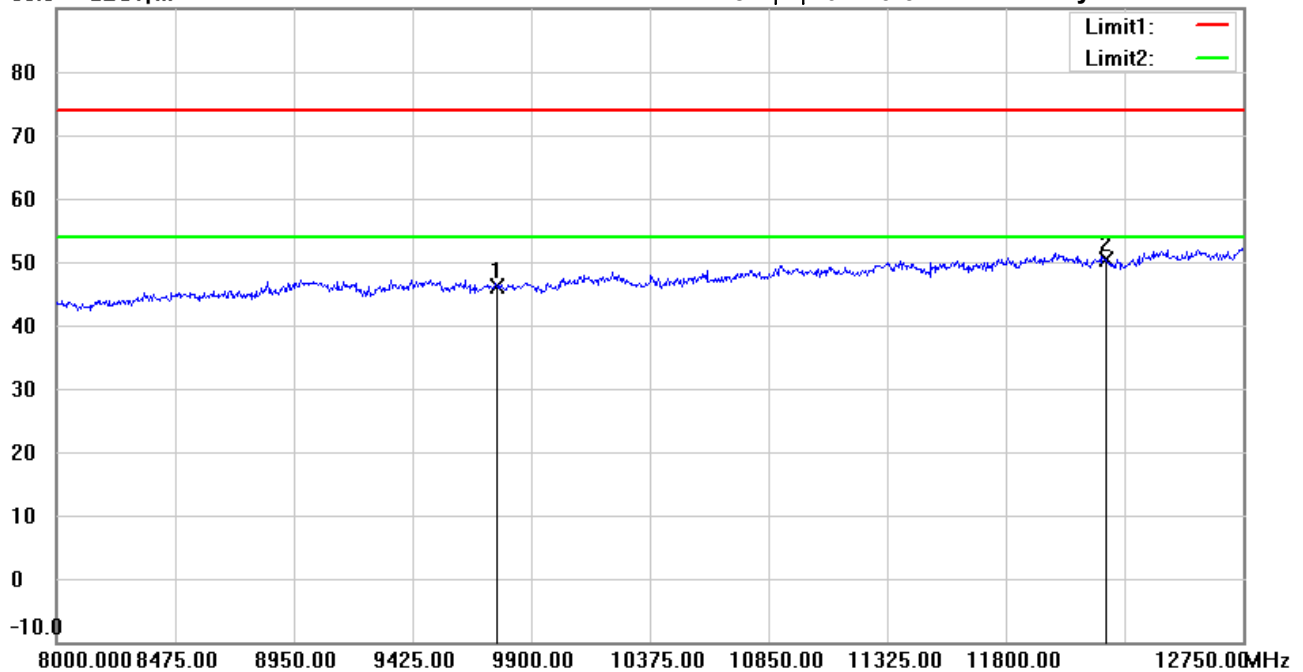
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:16:34

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	32.86	peak	13.15	46.01	74.00	150	188	-27.99	
*	12200.000	33.66	peak	16.63	50.29	74.00	150	359	-23.71	

*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #4

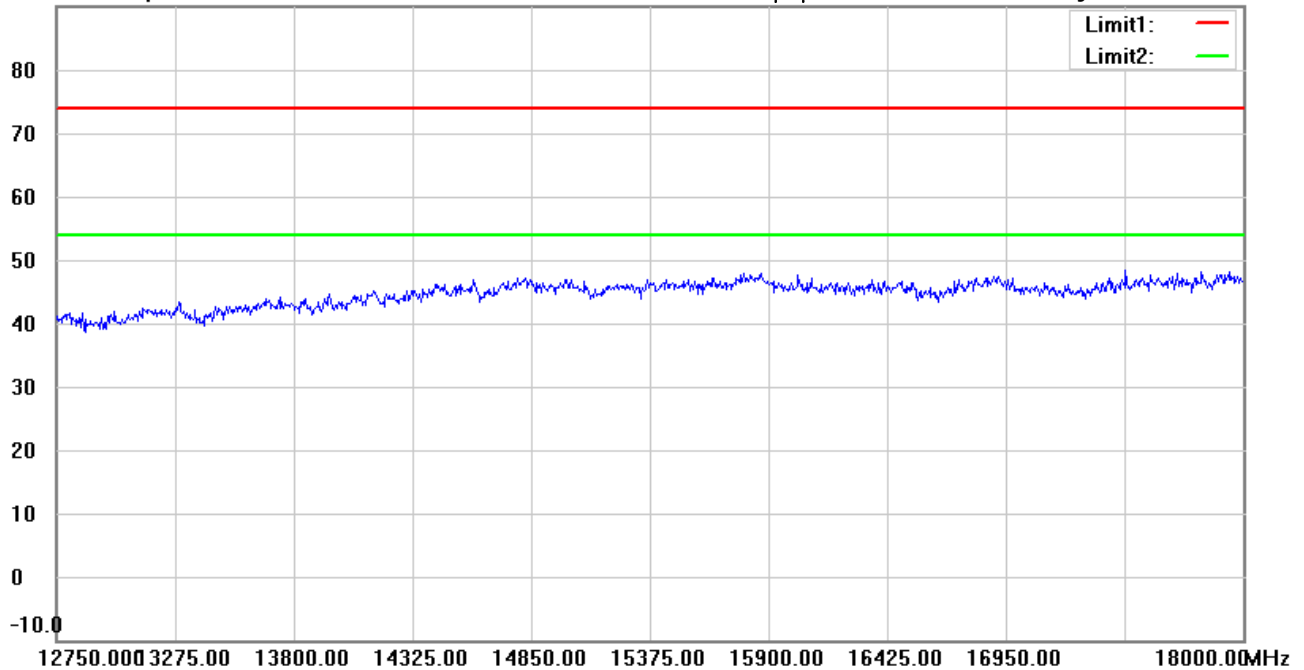
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:14:14

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #9

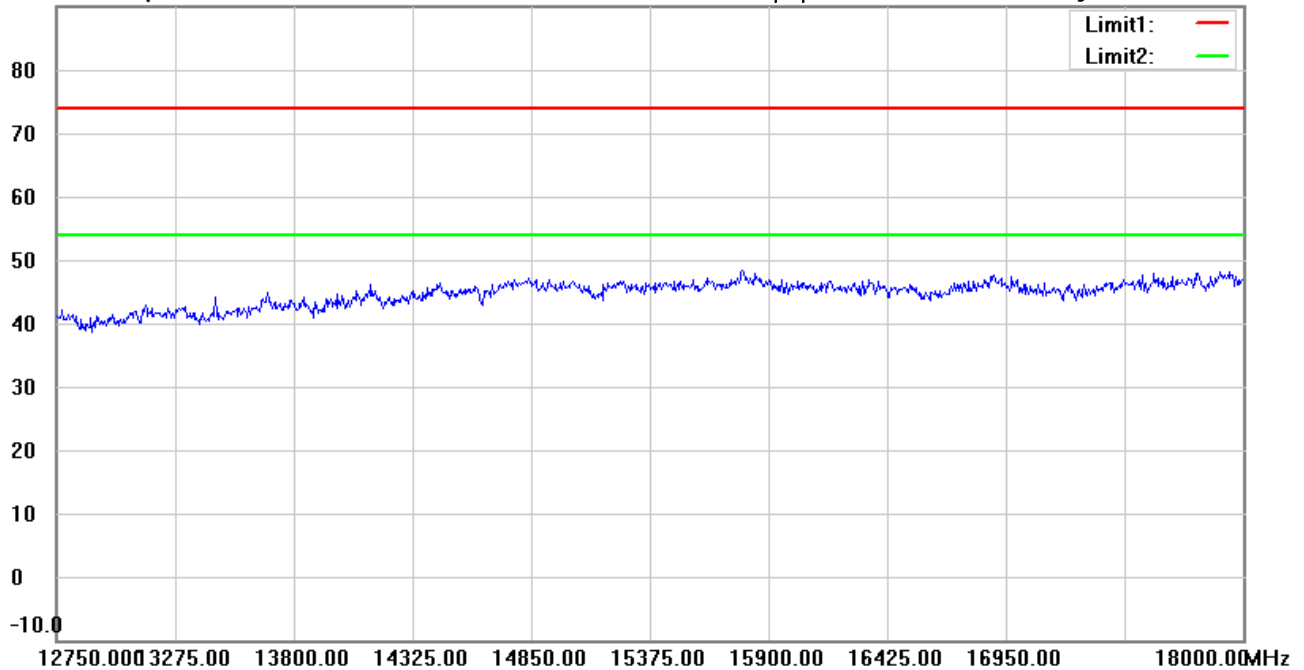
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:16:50

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: Vertical

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
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Radiated Emission Measurement

Operator: Kai

File : 3

Data : #5

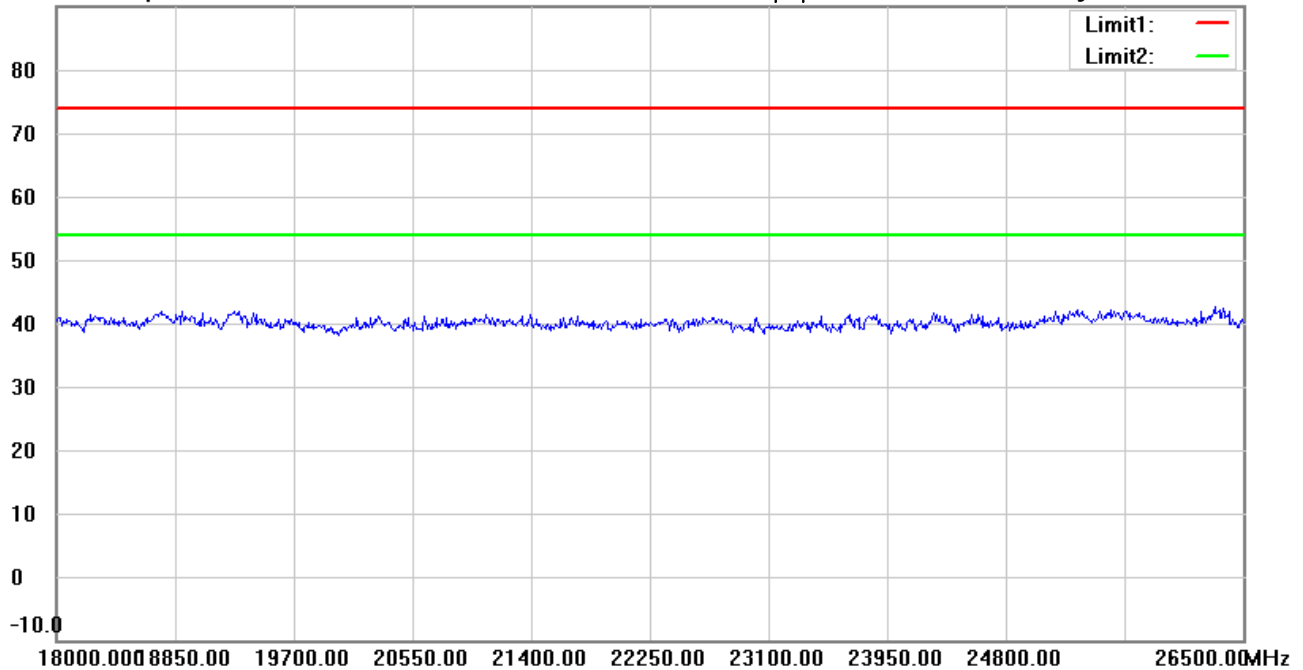
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:14:24

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: *Horizontal*

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin



Address: No. 99, Sec. 1, Balian Rd., Xizhi Dist., New Taipei City
Tel: +886-2-2646-1508
Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Kai

File : 3

Data : #10

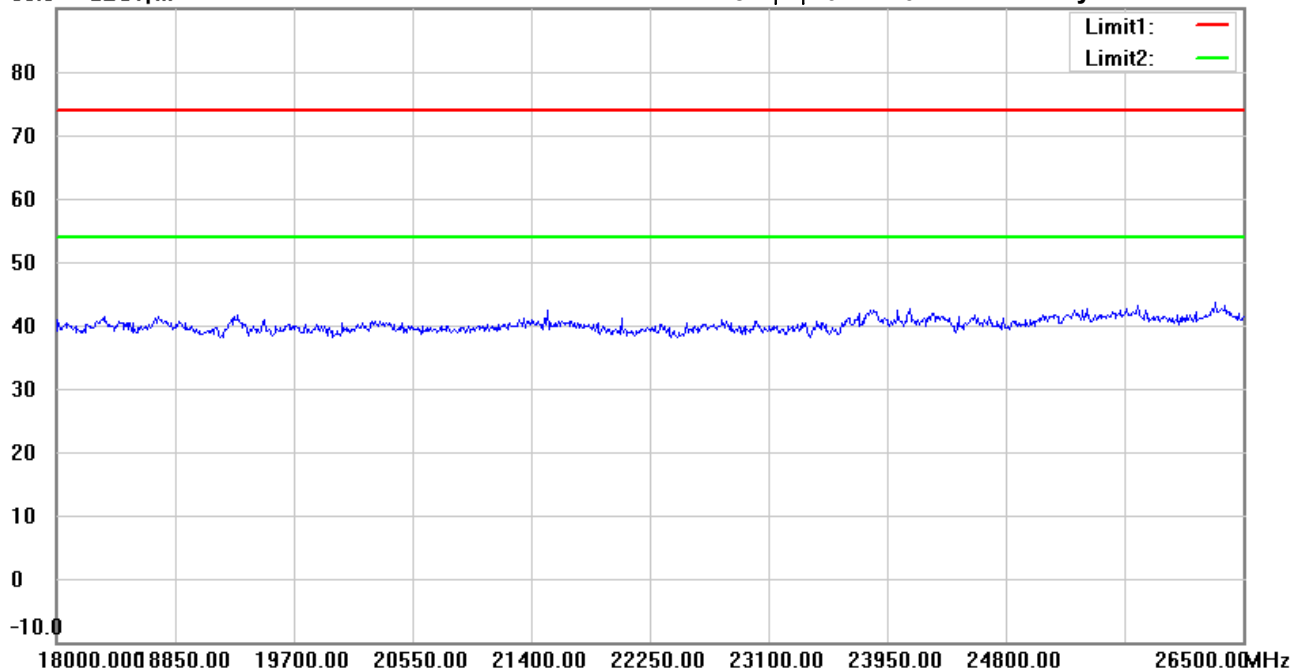
Date: 2024/5/16

Temperature: 23.6 °C

90.0 dBuV/m

Time: 下午 04:17:01

Humidity: 58.0 %



Site : 966A Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

EUT : W6M22404-23411

M/N:

Test Mode : TX 2440MHz

Note :

Polarization: **Vertical**

Power : 5 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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*:Maximum data x:Over limit !:over margin