

**47 CFR PART 15 SUBPART C TEST REPORT**

**for**

**UWB Tag - Watch Type**

**Model No.: GT-320**

**FCC ID: 2A6S5-GT320**

of

Applicant: GIPS Technology Co., Ltd (Su, Li-Tse)

Address: Rm. 2, 6 F., No. 395, Sec. 1, Linsen Rd., East Dist.,  
Tainan City 701024, Taiwan (R.O.C.)

Tested and Prepared

by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

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

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



**Report No.: W6M22405-23455-C-1**



Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

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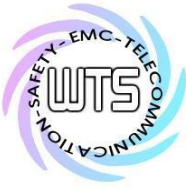
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# Worldwide Testing Services(Taiwan) Co., Ltd.

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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:

August 23, 2024

Ken Kang

Date

WTS-Lab.

Name

Signature

### Technical responsibility for area of testing:

August 23, 2024

Kevin Wang

Date

WTS

Name

Signature



# **Worldwide Testing Services(Taiwan) Co., Ltd.**

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FCC ID: 2A6S5-GT320

## **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.)

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, TW1146, TW1477, TW0037

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

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

Name: ./.  
Accredited no.: ./.  
Street: ./.  
Town: ./.  
Country: ./.

## **1.3 Application details**

### **Approval holder**

Name: GIPS Technology Co., Ltd (Su, Li-Tse)  
Street: Rm. 2, 6 F., No. 395, Sec. 1, Linsen Rd., East Dist.,  
Town: Tainan City 701024,  
Country: Taiwan (R.O.C.)

### **Manufacturer: (if applicable)**

Name: ./.  
Street: ./.  
Town: ./.  
Country: ./.



Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

## **Application details**

Date of receipt of test item: July 23, 2024

Date of test: from July 24, 2024 to August 22, 2024

### **1.4 General information of Test item**

Type of test item: UWB Tag - Watch Type  
Model no.: GT-320  
Multi-listing model no.: ./.  
Brand name: GIPS  
Power supply: Charging seat: 5Vd.c.  
Battery 3.8Vd.c. 440mAh 1.672Wh

#### **Technical data**

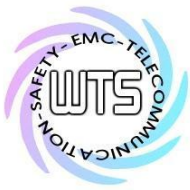
Mode	Channel	Conducted Power (dBm)
BLE	Ch 0 : 2402 MHz	-5.21
	Ch 19 : 2440 MHz	-5.14
	Ch 39 : 2480 MHz	-5.58

Type of antenna: Ceramic Chip antenna  
Antenna gain: 3.77 dBi  
Operation modes: Duplex  
Modulation type: GFSK  
Sample no.: #01

### **1.5 Duty cycle and factor**

The duty factor is computed as  $[10 \log (1 / D)]$ , where D is the duty cycle.

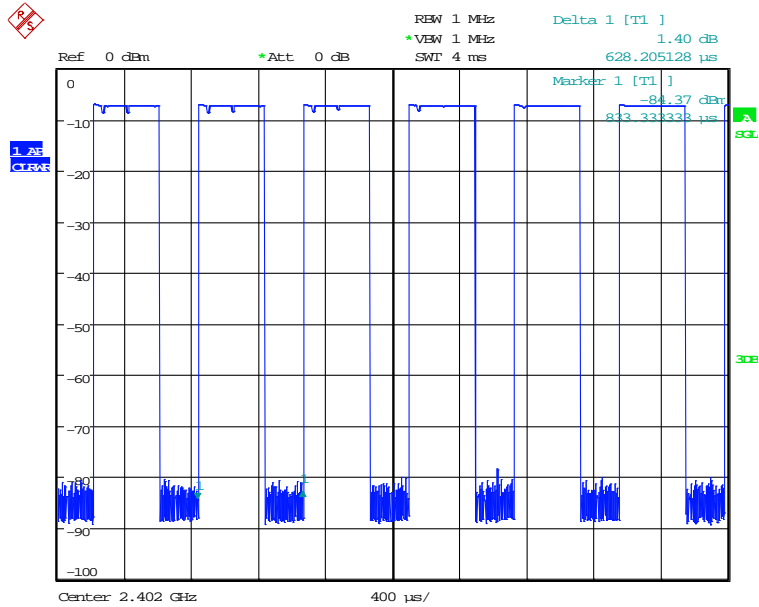
Mode	T <sub>on</sub> (ms)	T <sub>on</sub> +T <sub>off</sub> (ms)	Duty cycle (%)	1/T – VBW (kHz)
BLE 1M	0.41026	0.62821	65.31%	2.44



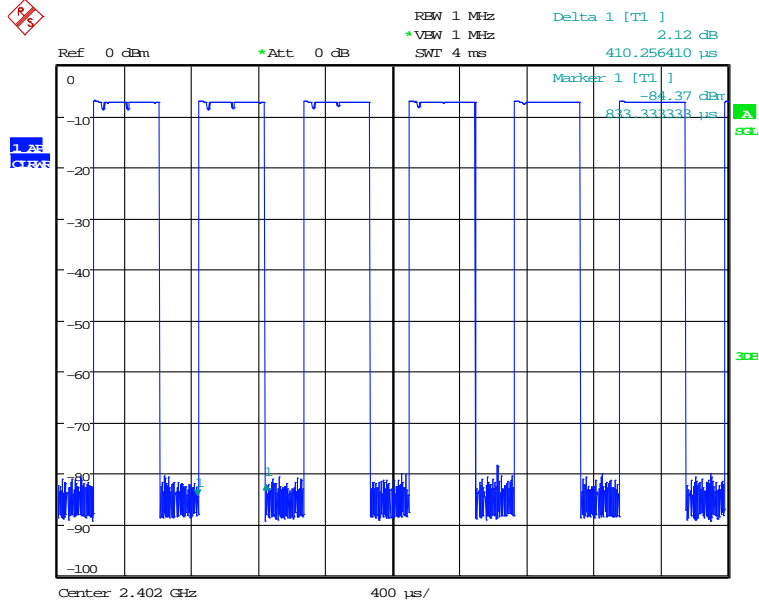
Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

Duty cycle plot



Duty T  
Date: 13.AUG.2024 12:50:43



Duty Ton  
Date: 13.AUG.2024 12:50:24

## 1.6 Test standards 47 CFR PART 15 SUBPART C § 15.247 (2023-10)



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**2 Test configuration**

**2.1 Test environment**

Relative humidity content: 20 ... 75 %

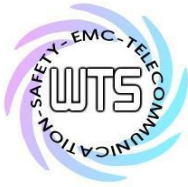
Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

**2.2 Measurement uncertainty**

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) (Transmitter Radiated Emissions in Restricted Bands, Spurious Emissions (tx), Radiated Emission from Digital 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 Bandwidth Measurement (Minimum 6 dB Bandwidth)	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Power Density Measurement (Peak Power Spectral Density)	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Band Edge Measurement (Emissions in nonrestricted frequency bands)	Expanded Uncertainty : 0.67 dBc

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



# Worldwide Testing Services(Taiwan) Co., Ltd.

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## 2.3 Test Equipment List

Max Output Power, 6dB Bandwidth, Band edge, Power Spectral Density, Duty

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 & Bandedge (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	2024/7/12	2025/7/11
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	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
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	2024/6/13	2025/6/12
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+	





# Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: 2A6S5-GT320

## **3 Test results (enclosure)**

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(d), 15.205, 15.209	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emissions in nonrestricted frequency bands	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 6 dB Bandwidth	15.247(a)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



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## **3.1 Peak Output Power (transmitter)**

### **3.1.1 Applicable Standard**

FCC Rule: 15.247(b)(3)

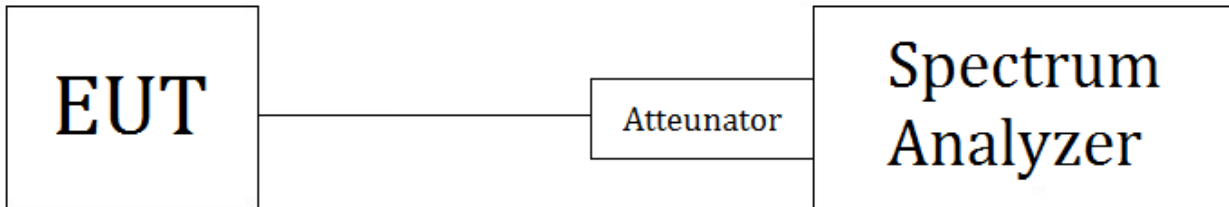
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### **3.1.2 Test procedure**

Following Subclause 11.9.1.1 of ANSI C63.10

1. Set the RBW  $\geq$  DTS bandwidth , VBW  $\geq$  [3  $\times$  RBW] , span  $\geq$  [3  $\times$  RBW].
2. Sweep time = auto couple , Detector = peak , Trace mode = max hold.
3. Allow trace to fully stabilize and determine the peak amplitude level.

### **3.1.3 Test Setup**



### **3.1.4 Limits**

Frequency (MHz)	Power (dBm)
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain  $>$  6 dBi and using fixed point-to point operation consider §15.247 (b)(4)



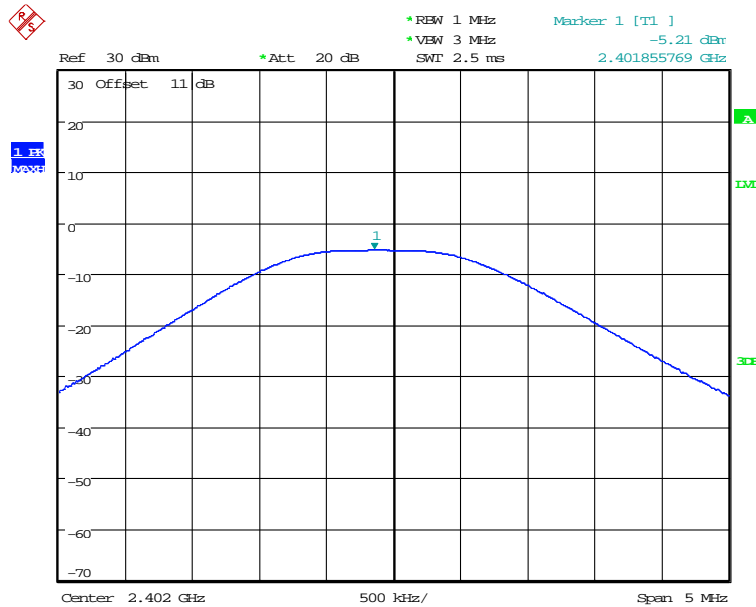
Registration number: W6M22405-23455-C-1  
 FCC ID: 2A6S5-GT320

### 3.1.5 Test Environmental Conditions

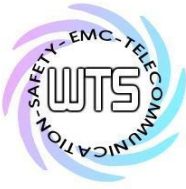
Test date: 2024-08-08 Temperature: 25.3°C Humidity: 52.2% Tester: Ken

### 3.1.6 Test results

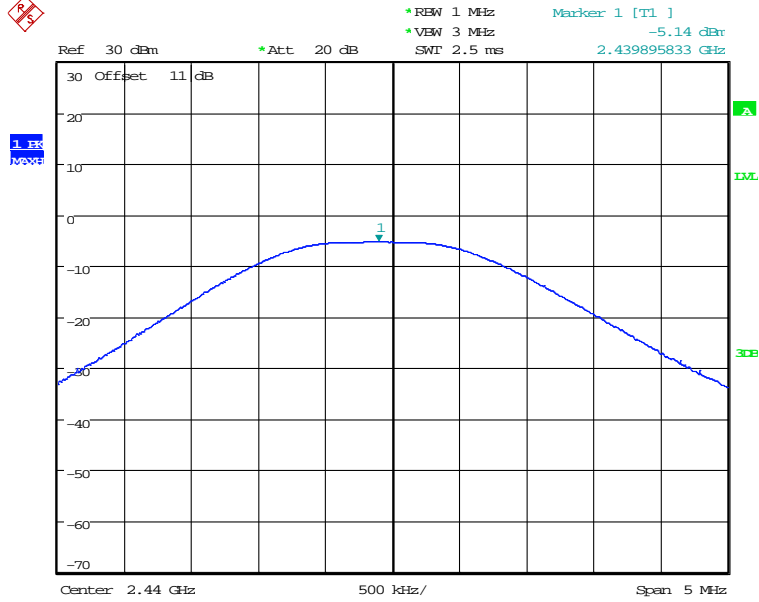
Band	Mode	Channel	Power (dBm)	Limit (dBm)
2.4GHz	BLE 1M	Ch 0 : 2402 MHz	-5.21	30
		Ch 19 : 2440 MHz	-5.14	30
		Ch 39 : 2480 MHz	-5.58	30



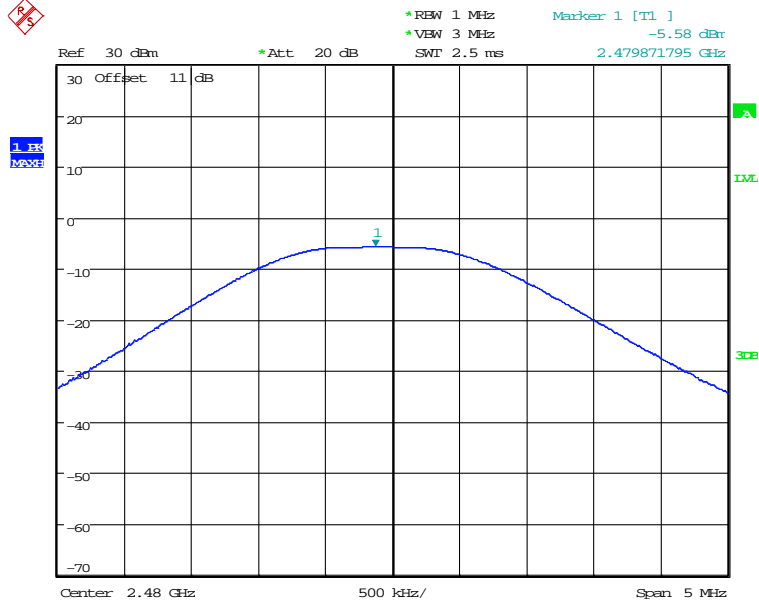
MAX OUTPUT POWER BLE 1M CH00  
 Date: 8.AUG.2024 14:27:34



Registration number: W6M22405-23455-C-1  
 FCC ID: 2A6S5-GT320



MAX OUTPUT POWER BLE 1M CH19  
 Date: 8.AUG.2024 14:28:36



MAX OUTPUT POWER BLE 1M CH39  
 Date: 8.AUG.2024 14:29:20

Test equipment used: Please see test equipment utilized (RF Conducted).



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### **3.2 Spurious Emissions radiated – Transmitter operating**

#### **3.2.1 Applicable Standard**

FCC Rules: 15.247 (d), 15.205, 15.209

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

#### **3.2.2 Test procedure**

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m height to find out the highest emissions.
3. Receiver or Spectrum analyzer configuration
  - (a)120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
  - (b)RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
  - (c)RBW=1MHz, VBW=10Hz(1/T) and Peak detector is for average measured value of radiated emission above 1GHz.

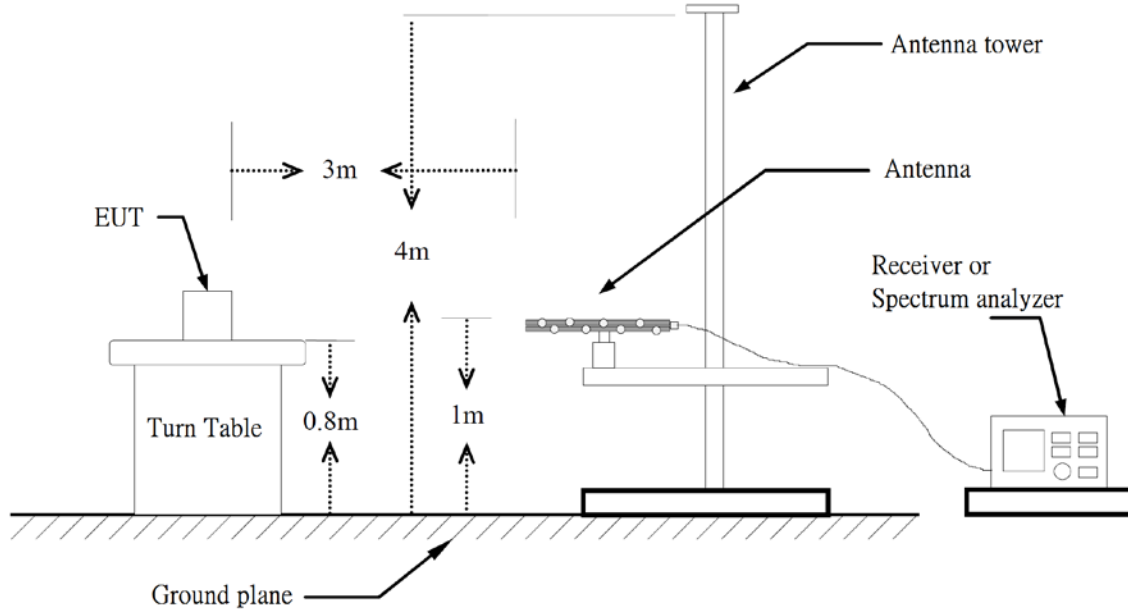
#### **3.2.3 Limits**

Frequency (MHz)	Field strength (uV/m)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

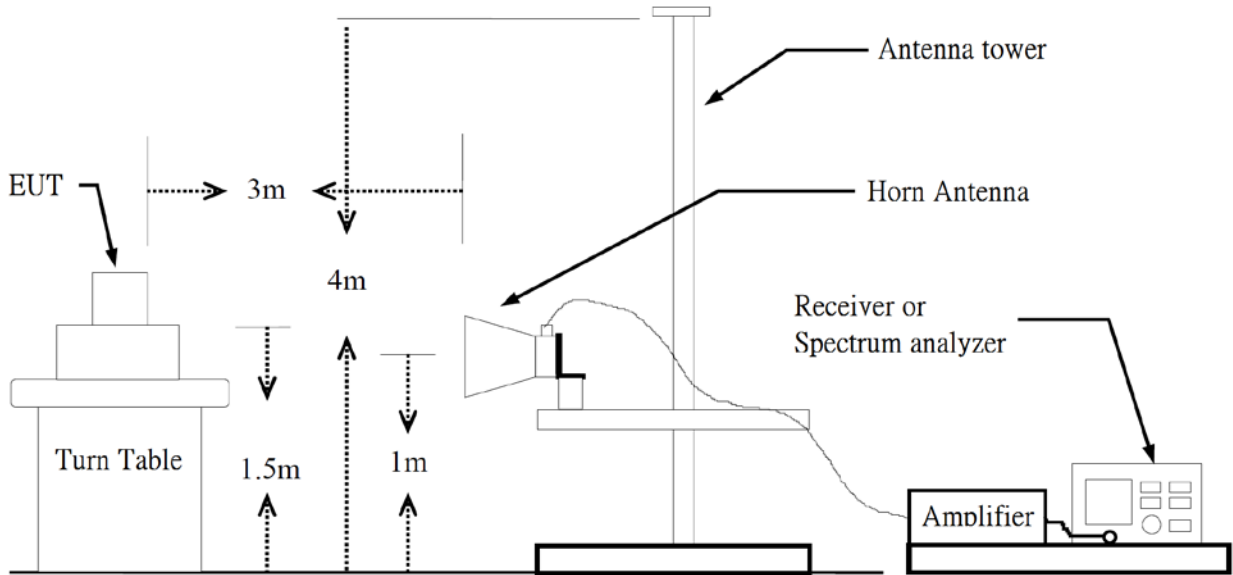
Registration number: W6M22405-23455-C-1

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**3.2.4 Test Setup**



**Below 1 GHz**



**Above 1 GHz**

**3.2.5 Test results (With Environmental Conditions)**

Explanation: See attached diagrams in Appendix.



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### **3.3 Emissions in nonrestricted frequency bands**

#### **3.3.1 Applicable Standard**

FCC Rules: 15.247(d)

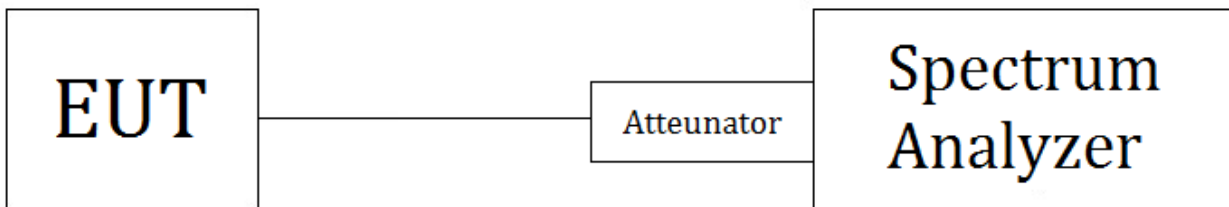
In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based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

In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

#### **3.3.2 Test procedure**

1. Set RBW = 100 kHz , VBW  $\geq [3 \times \text{RBW}]$
2. Set Detector = peak , Sweep time = auto , Trace mode = max hold, and allow sweep to continue until the trace stabilizes
3. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

#### **3.3.3 Test setup**



#### **3.3.4 Limits**

See 3.3.1

#### **3.3.5 Test Environmental Conditions**

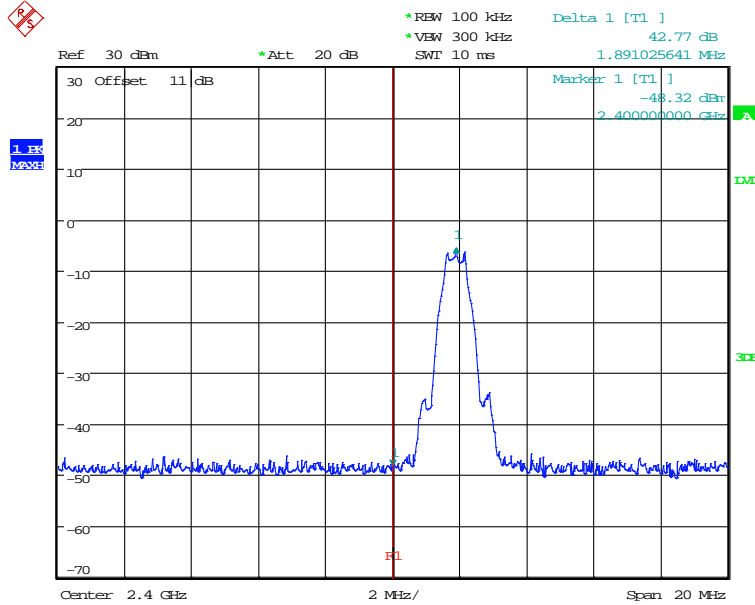
Test date: 2024-08-08 Temperature: 25.3°C Humidity: 52.2% Tester: Ken



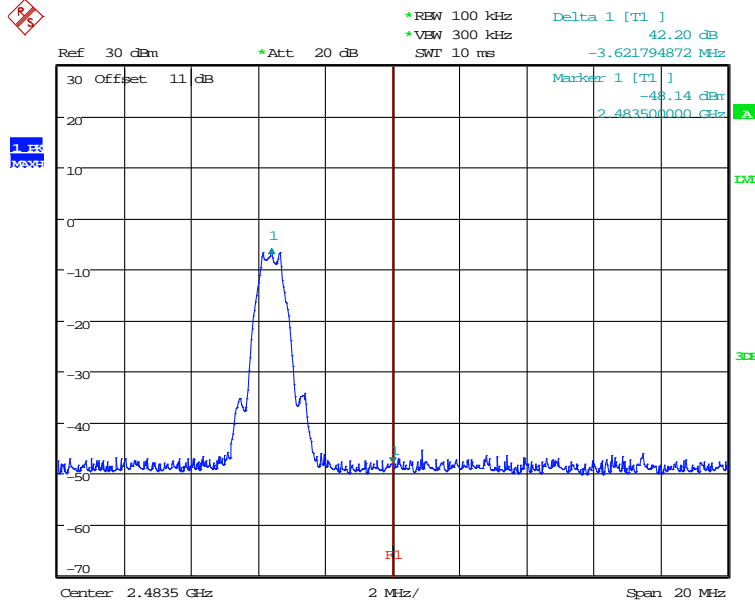
Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

### 3.3.6 Test results



BANDEDGE BLE 1M CH00  
Date: 8.AUG.2024 14:28:14



BANDEDGE BLE 1M CH39  
Date: 8.AUG.2024 14:29:50

Test equipment used: Please see test equipment utilized (RF Conducted).





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### **3.4 Minimum 6 dB Bandwidth**

#### **3.4.1 Applicable Standard**

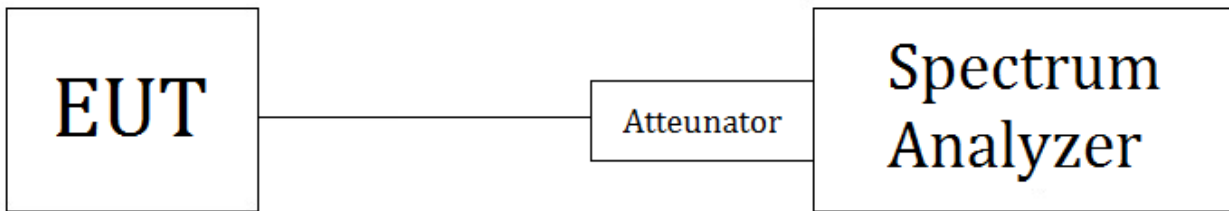
FCC Rules: 15.247(a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **3.4.2 Test procedure**

1. Set RBW = 100 kHz , Set the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak , Trace mode = max hold , Sweep = auto couple and allow the trace to stabilize.
3. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### **3.4.3 Test setup**



#### **3.4.4 Limits**

Frequency Range (MHz)	Limits (kHz)
902-928	$\geq 500$
2400-2483.5	
5725-5850	

#### **3.4.5 Test Environmental Conditions**

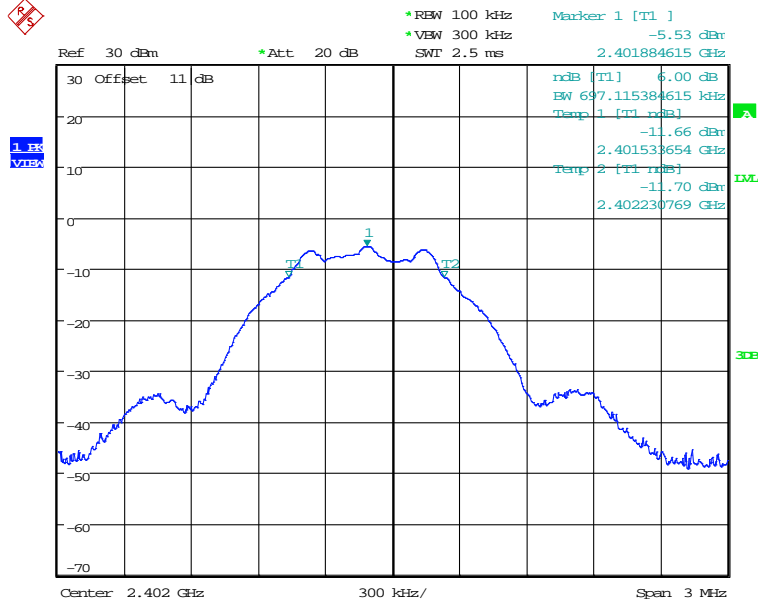
Test date: 2024-08-08 Temperature: 25.3°C Humidity: 52.2% Tester: Ken



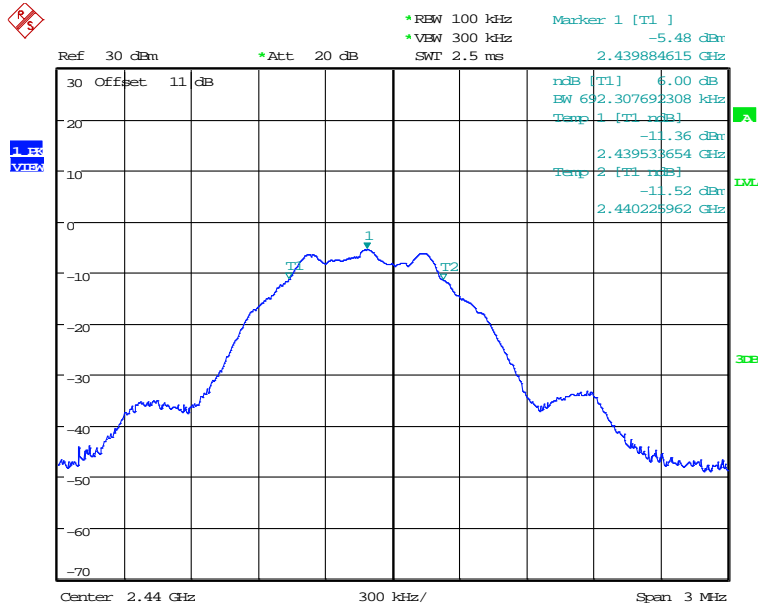
Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

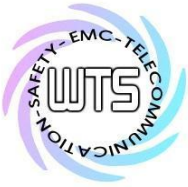
### 3.4.6 Test results



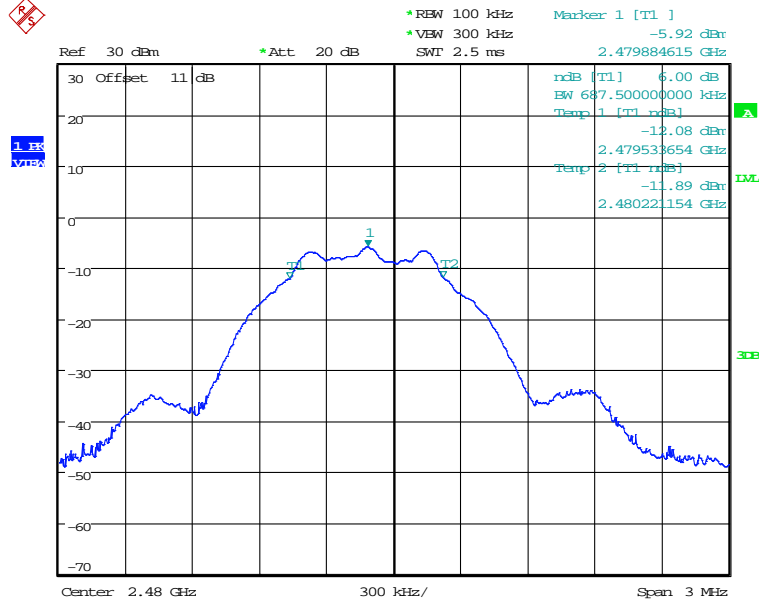
6DB BANDWIDTH BLE 1M CH00  
Date: 8.AUG.2024 14:27:49



6DB BANDWIDTH BLE 1M CH19  
Date: 8.AUG.2024 14:28:46



Registration number: W6M22405-23455-C-1  
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6DB BANDWIDTH BLE 1M CH39  
Date: 8.AUG.2024 14:29:30

Test equipment used: Please see test equipment utilized (RF Conducted).



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**3.5 Peak Power Spectral Density**

**3.5.1 Applicable Standard**

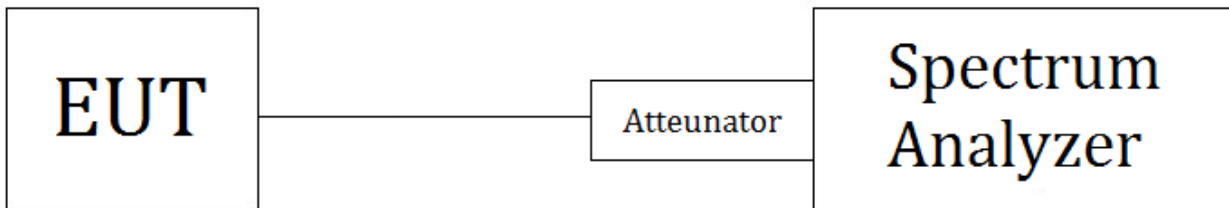
FCC Rules: 15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

**3.5.2 Test procedure**

1. Set the RBW to  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$  , the VBW  $\geq [3 \times \text{RBW}]$ .
2. Set Detector = peak , Sweep time = auto couple , Trace mode = max hold and allow trace to fully stabilize
3. Use the peak marker function to determine the maximum amplitude level within the RBW.

**3.5.3 Test setup**



**3.5.4 Limits**

Frequency Range (MHz)	Limits (dBm/3KHz)
902-928	8
2400-2483.5	
5725-5850	

**3.5.5 Test Environmental Conditions**

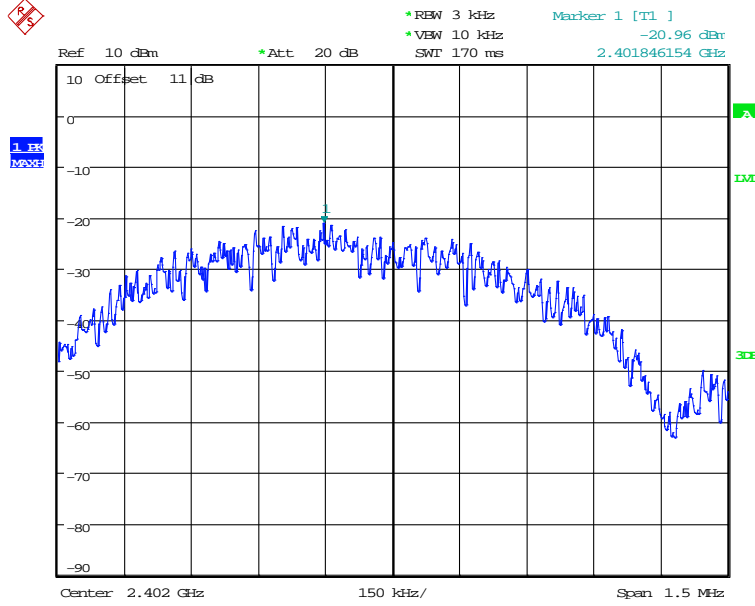
Test date: 2024-08-08 Temperature: 25.3°C Humidity: 52.2% Tester: Ken



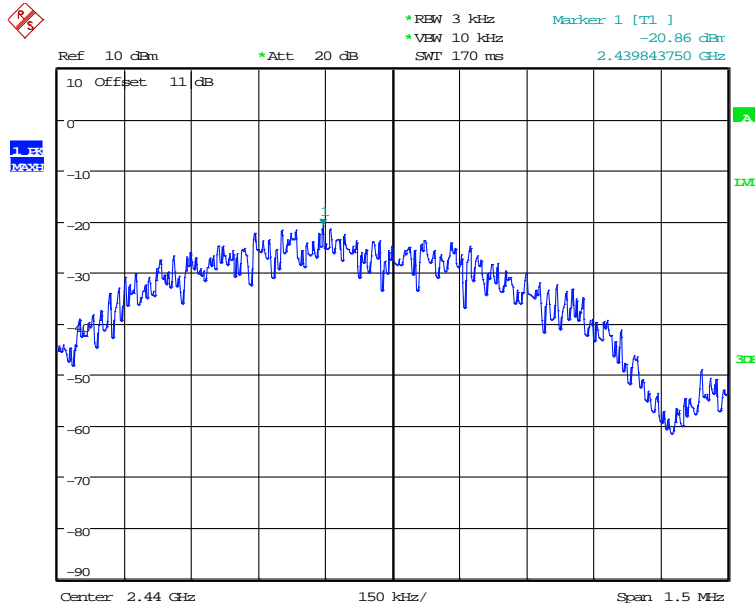
Registration number: W6M22405-23455-C-1

FCC ID: 2A6S5-GT320

### 3.5.6 Test results



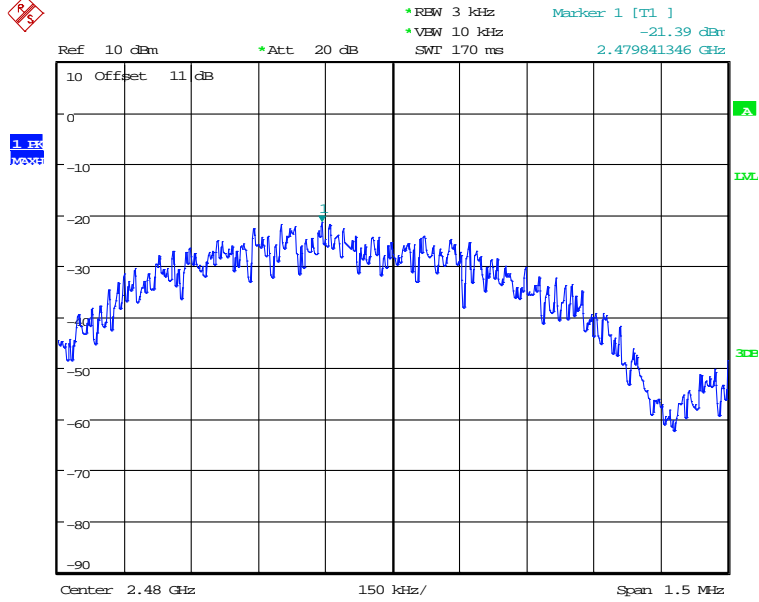
POWER DENSITY BLE 1M CH00  
Date: 8.AUG.2024 14:28:04



POWER DENSITY BLE 1M CH19  
Date: 8.AUG.2024 14:28:58



Registration number: W6M22405-23455-C-1  
FCC ID: 2A6S5-GT320



POWER DENSITY BLE 1M CH39  
Date: 8.AUG.2024 14:29:42

Test equipment used: Please see test equipment utilized (RF Conducted).

Registration number: W6M22405-23455-C-1  
 FCC ID: 2A6S5-GT320

**3.6 Power Line Conducted Emission**

**3.6.1 Applicable Standard**

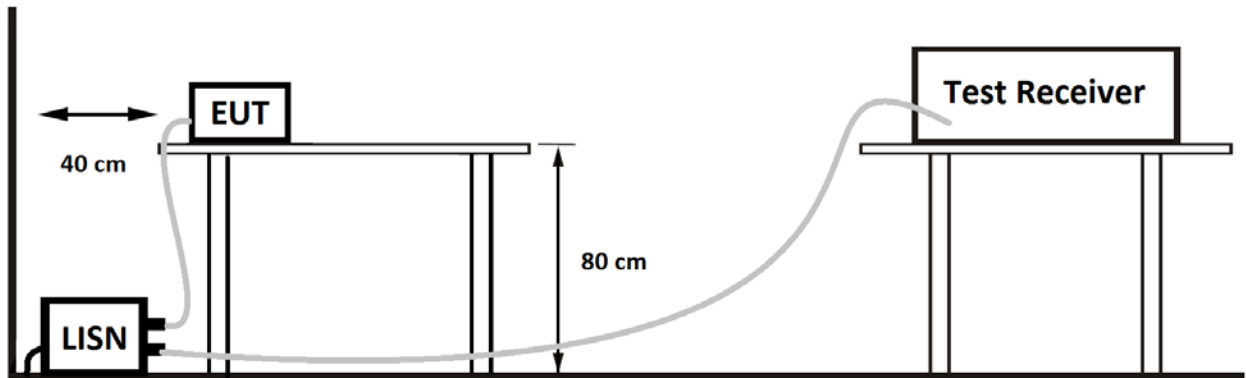
FCC Rules:15.207(a)

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.

**3.6.2 Test procedure**

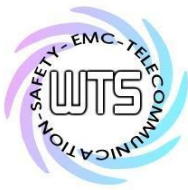
1. EUT is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. Connect EUT to a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). AC input is 120V/60Hz
3. This measurement was transact first 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.

**3.6.3 Test setup**



**3.6.4 Limits**

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

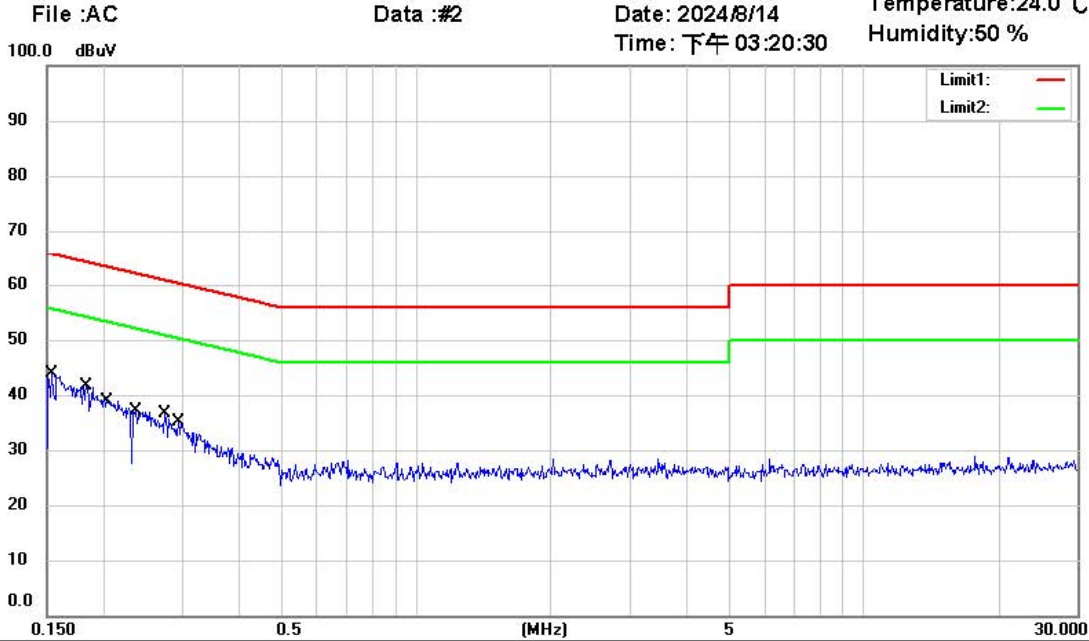


Registration number: W6M22405-23455-C-1  
 FCC ID: 2A6S5-GT320

### 3.6.5 Test results (With Environmental Conditions)

Conducted Emission Measurement

Operator: Sky  
 Temperature: 24.0 °C  
 Humidity: 50 %



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22405-23455

Power : 120 V.a.c.

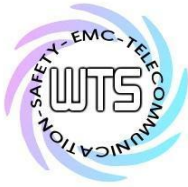
M/N:

Test Mode :

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1532	23.69	QP	9.64	33.33	65.82	-32.49	
	0.1532	18.26	AVG	9.64	27.90	55.82	-27.92	
	0.1827	22.31	QP	9.64	31.95	64.36	-32.41	
*	0.1827	18.12	AVG	9.64	27.76	54.36	-26.60	
	0.2037	19.32	QP	9.64	28.96	63.46	-34.50	
	0.2037	-2.06	AVG	9.64	7.58	53.46	-45.88	
	0.2356	16.95	QP	9.64	26.59	62.25	-35.66	
	0.2356	-1.50	AVG	9.64	8.14	52.25	-44.11	
	0.2740	14.98	QP	9.65	24.63	61.00	-36.37	
	0.2740	6.41	AVG	9.65	16.06	51.00	-34.94	
	0.2932	13.20	QP	9.65	22.85	60.43	-37.58	
	0.2932	-4.99	AVG	9.65	4.66	50.43	-45.77	





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Registration number: W6M22405-23455-C-1  
 FCC ID: 2A6S5-GT320

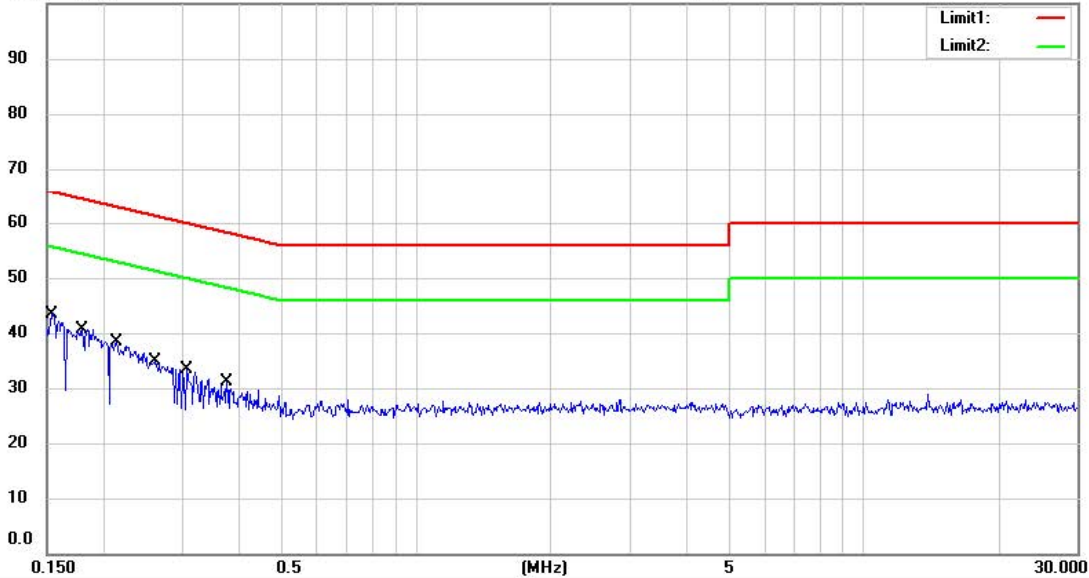
Conducted Emission Measurement

Operator: Sky  
 Temperature: 24.0 °C  
 Humidity: 50 %

File : AC  
 100.0 dBuV

Data : #1

Date: 2024/8/14  
 Time: 下午 03:16:30



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22405-23455

Power : 120 V.a.c.

M/N:

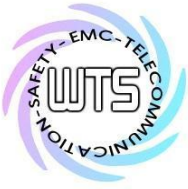
Test Mode :

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1540	23.65	QP	9.66	33.31	65.78	-32.47	
*	0.1540	18.12	AVG	9.66	27.78	55.78	-28.00	
	0.1794	21.16	QP	9.65	30.81	64.51	-33.70	
	0.1794	11.79	AVG	9.65	21.44	54.51	-33.07	
	0.2135	18.19	QP	9.65	27.84	63.07	-35.23	
	0.2135	-2.97	AVG	9.65	6.68	53.07	-46.39	
	0.2601	15.15	QP	9.65	24.80	61.43	-36.63	
	0.2601	-4.39	AVG	9.65	5.26	51.43	-46.17	
	0.3056	12.35	QP	9.66	22.01	60.09	-38.08	
	0.3056	-4.89	AVG	9.66	4.77	50.09	-45.32	
	0.3768	6.99	QP	9.66	16.65	58.35	-41.70	
	0.3768	-5.95	AVG	9.66	3.71	48.35	-44.64	

Explanation: ./.

Test equipment used: Please see test equipment utilized (AC Conducted).



Registration number: W6M22405-23455-C-1  
FCC ID: 2A6S5-GT320

## **Appendix**

### **Measurement diagrams**

#### Radiated Emission



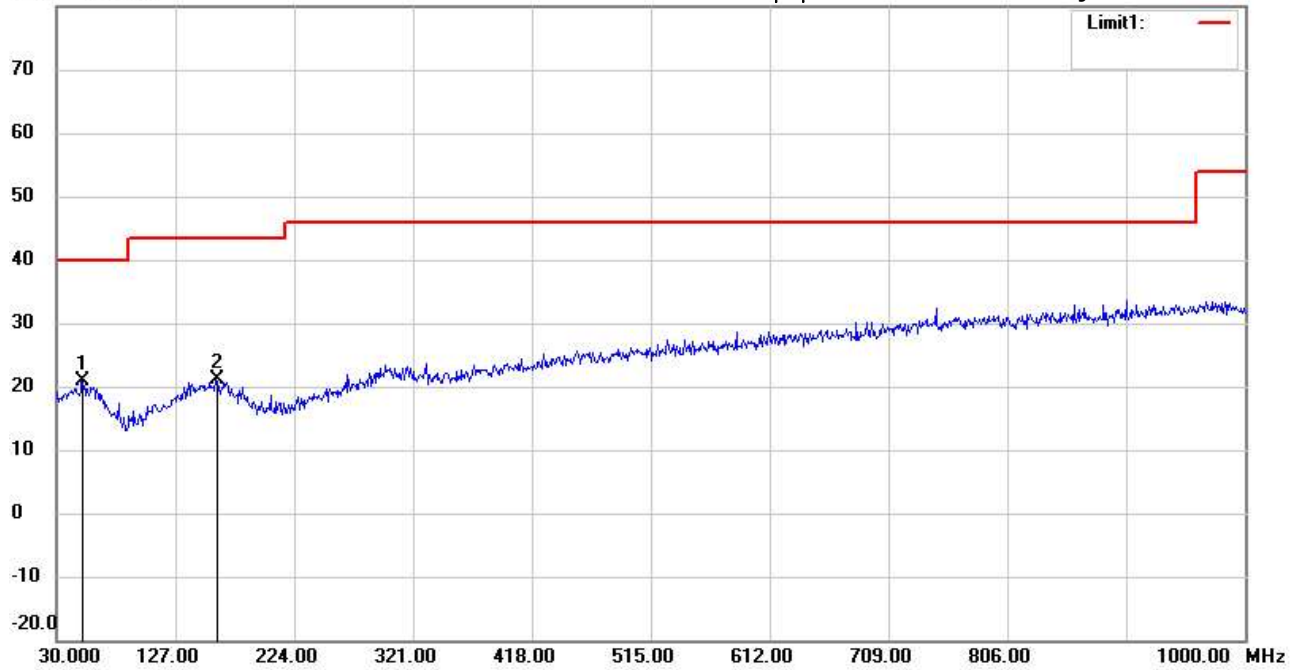
Radiated Emission Measurement

Operator: Jeff

File :1\_BLE(1M)\_TX 2402MHz Data :#1  
 80.0 dBuV/m

Date: 2024/8/12  
 Time: 下午 05:21:44

Temperature:27.9 °C  
 Humidity:45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

EUT : W6M22405-23455

M/N:

Test Mode : TX 2402MHz

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
*	50.8550	33.52	peak	-12.61	20.91	40.00	100	100	-19.09	
	160.4650	33.33	peak	-12.21	21.12	43.50	100	184	-22.38	



Radiated Emission Measurement

Operator: Jeff

File : 1\_BLE(1M)\_TX 2402MHz Data : #2

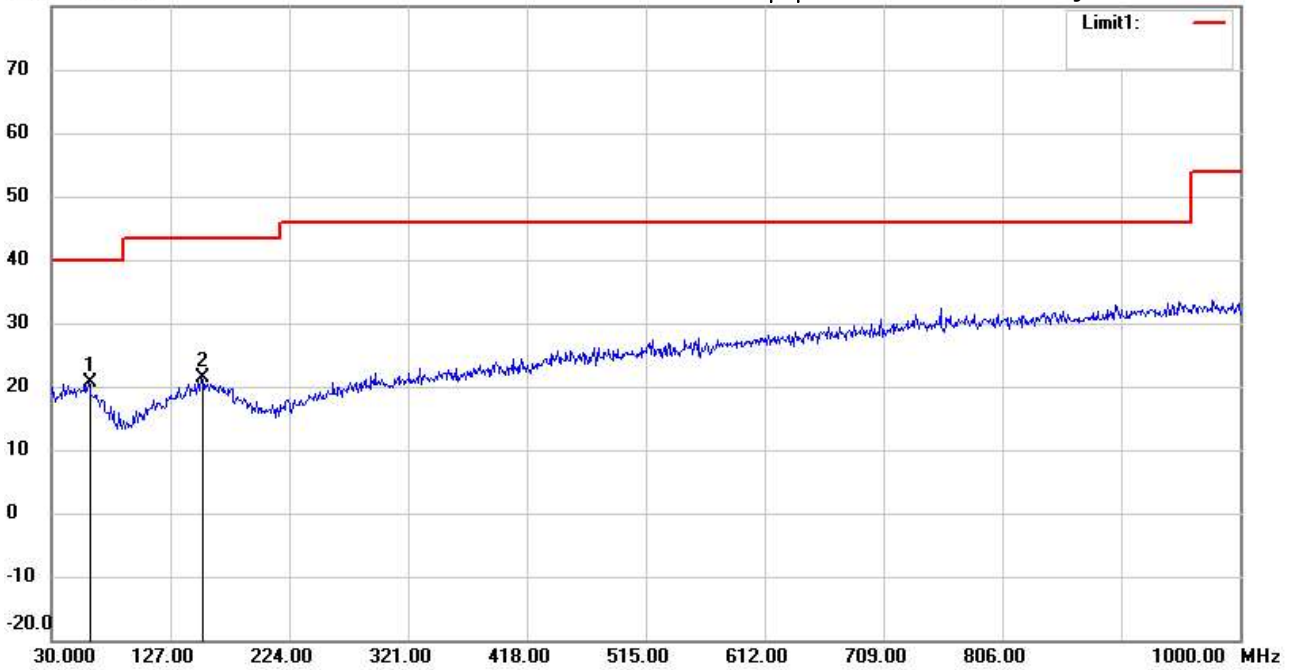
Date: 2024/8/12

Temperature: 27.9 °C

80.0 dBuV/m

Time: 下午 05:22:28

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_30-1000MHz

Polarization: Vertical

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
*	60.5550	33.53	peak	-13.01	20.52	40.00	100	10	-19.48	
	152.7050	33.51	peak	-12.20	21.31	43.50	100	178	-22.19	



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**Radiated Emission Measurement**

Operator: Jeff

File :3

Data :#1

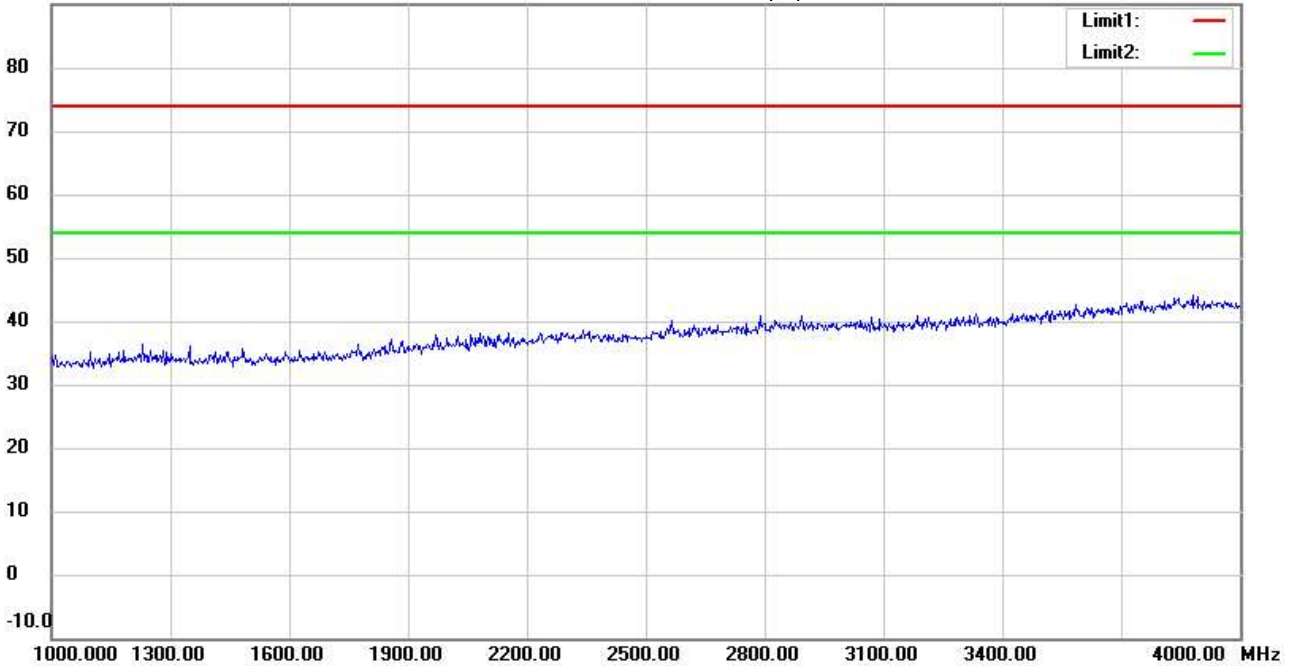
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:28:41

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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



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 Fax: +886-2-2646-1533

**Radiated Emission Measurement**

Operator: Jeff

File :3

Data :#6

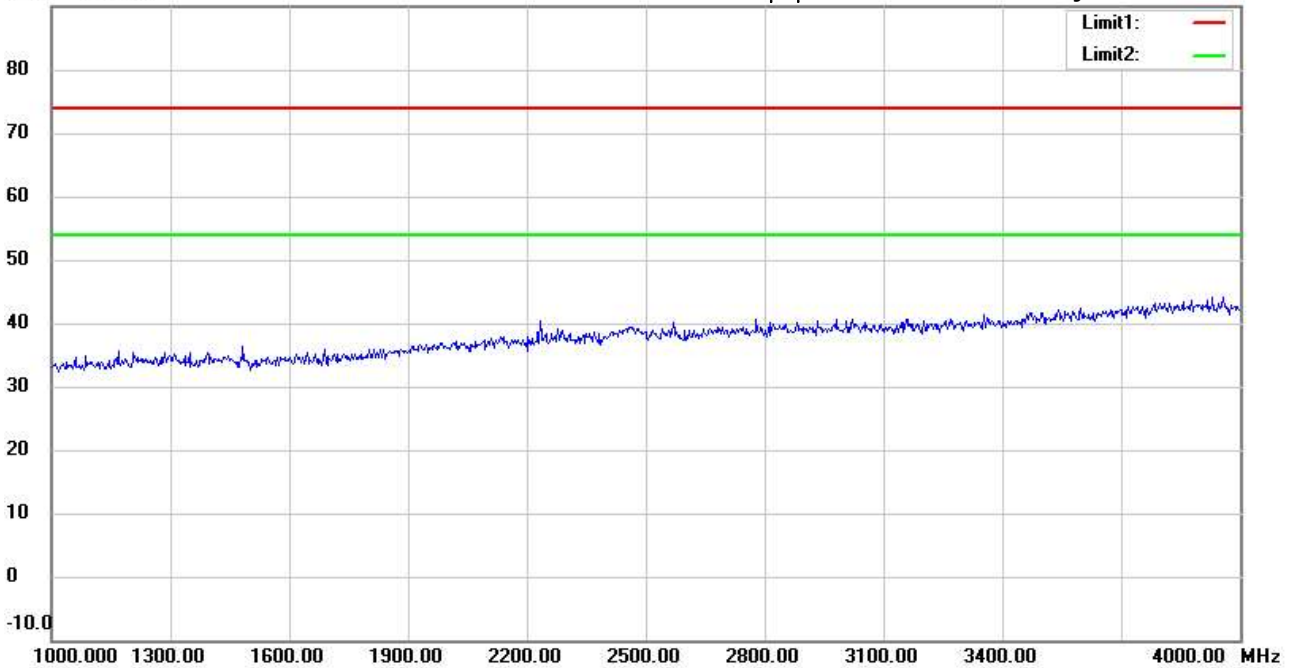
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:31:29

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22405-23455

M/N:

Test Mode : TX 2402MHz

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



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#2

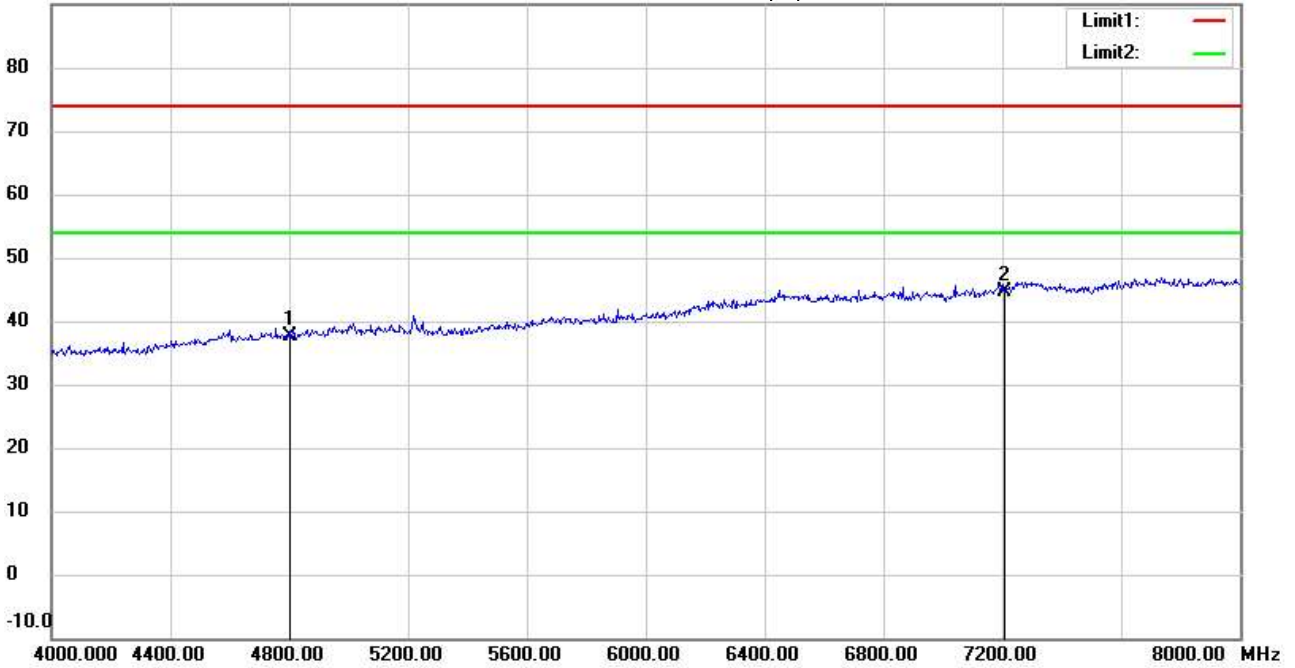
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:29:25

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

EUT : W6M22405-23455

M/N:

Test Mode : TX 2402MHz

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
	4804.000	33.08	peak	4.53	37.61	74.00	150	359	-36.39	
*	7206.000	33.15	peak	11.50	44.65	74.00	150	323	-29.35	



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#7

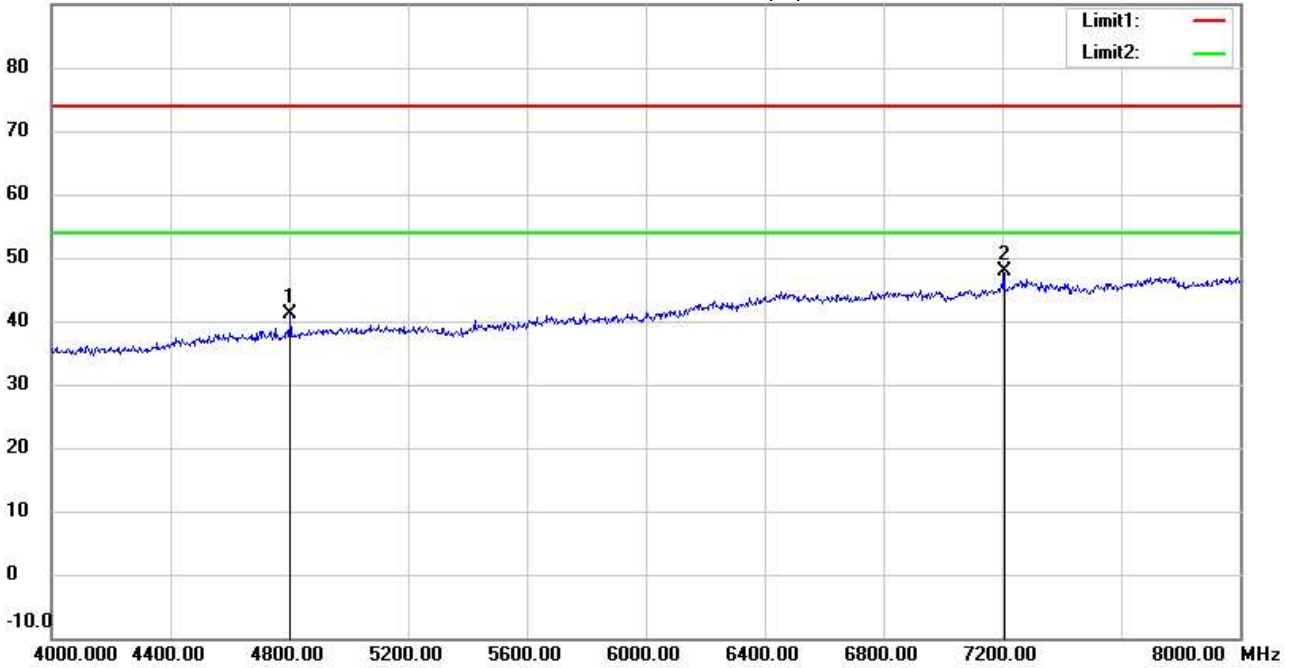
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:32:13

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	4804.000	36.55	peak	4.53	41.08	74.00	150	212	-32.92	
*	7206.000	36.26	peak	11.50	47.76	74.00	150	0	-26.24	





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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#3

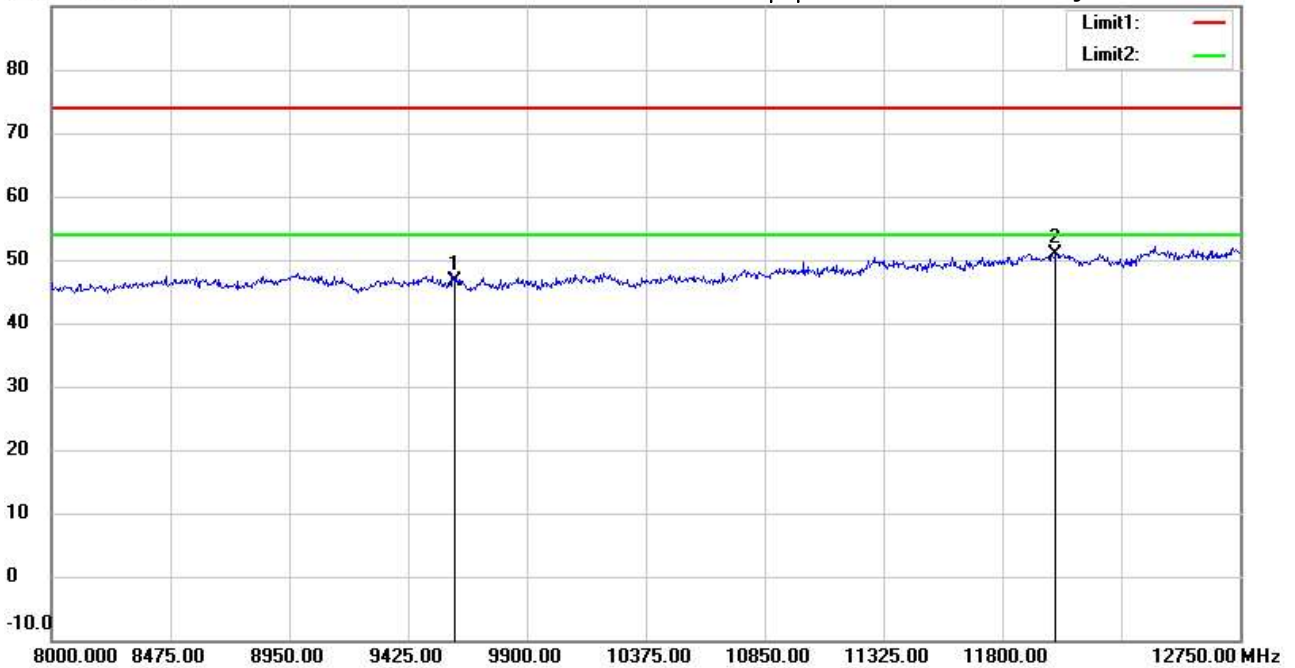
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:30:14

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	9608.000	33.52	peak	13.02	46.54	74.00	150	68	-27.46	
*	12010.000	33.69	peak	17.12	50.81	74.00	150	126	-23.19	

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#8

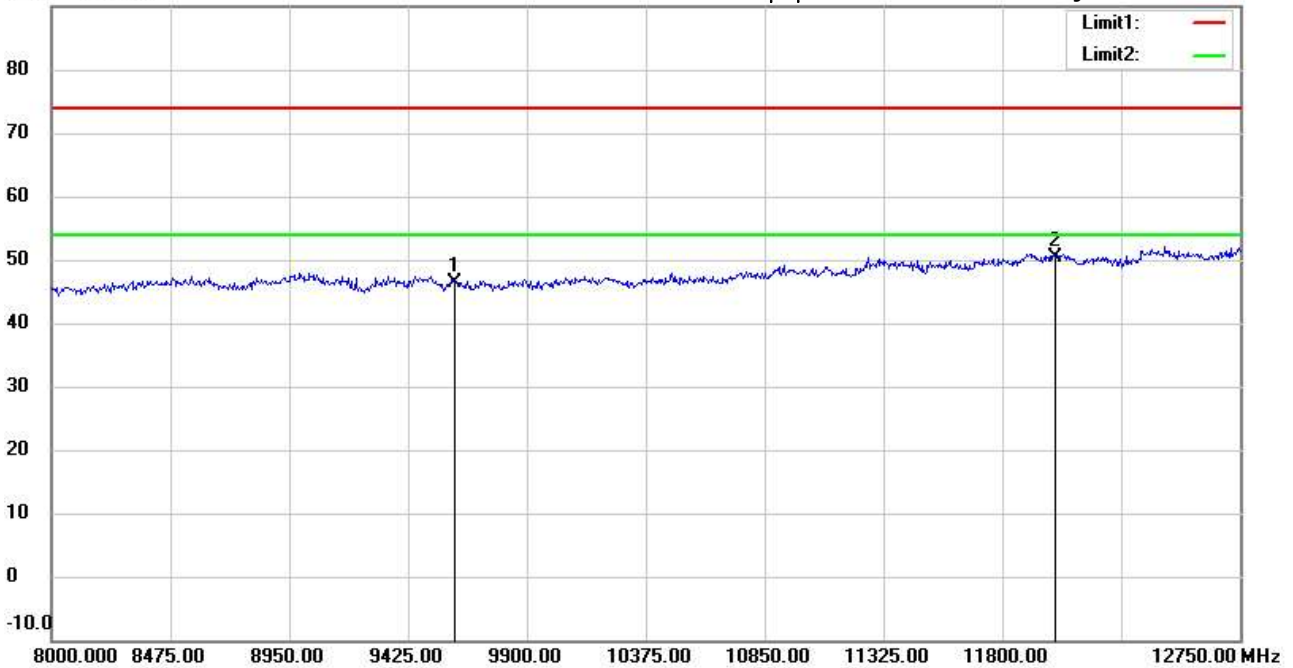
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:32:56

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: **Vertical**

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
	9608.000	33.34	peak	13.02	46.36	74.00	150	359	-27.64	
*	12010.000	33.36	peak	17.12	50.48	74.00	150	211	-23.52	

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#4

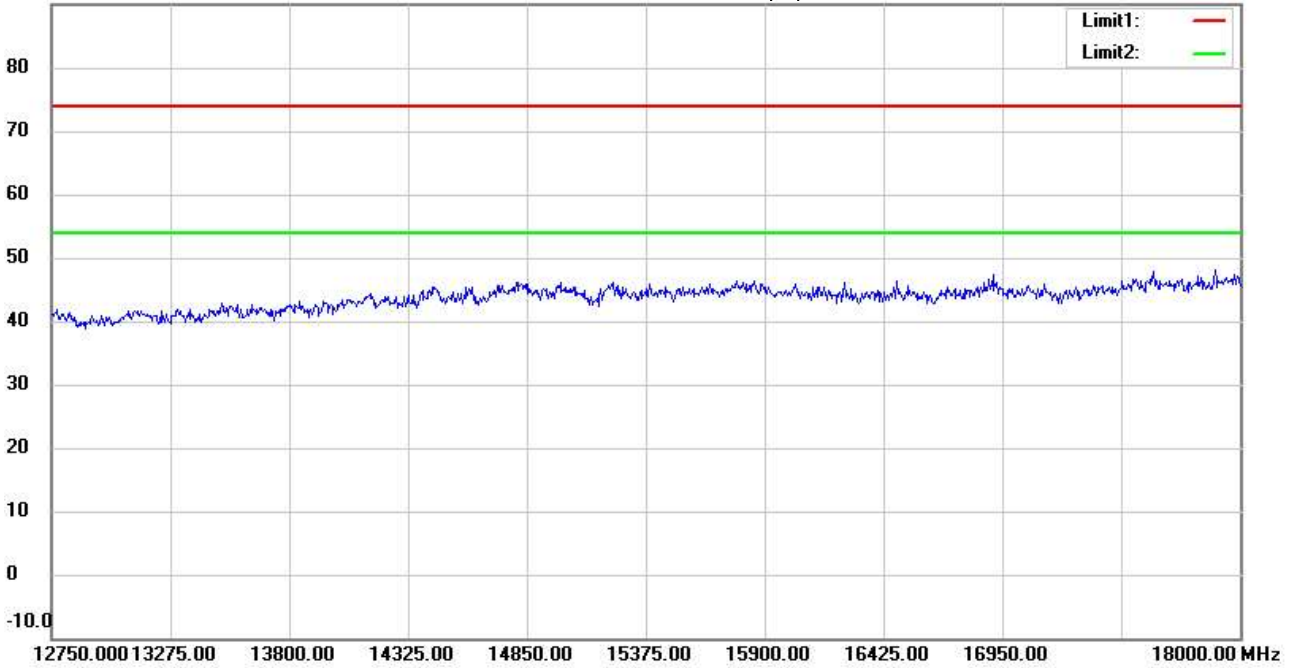
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:30:32

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#9

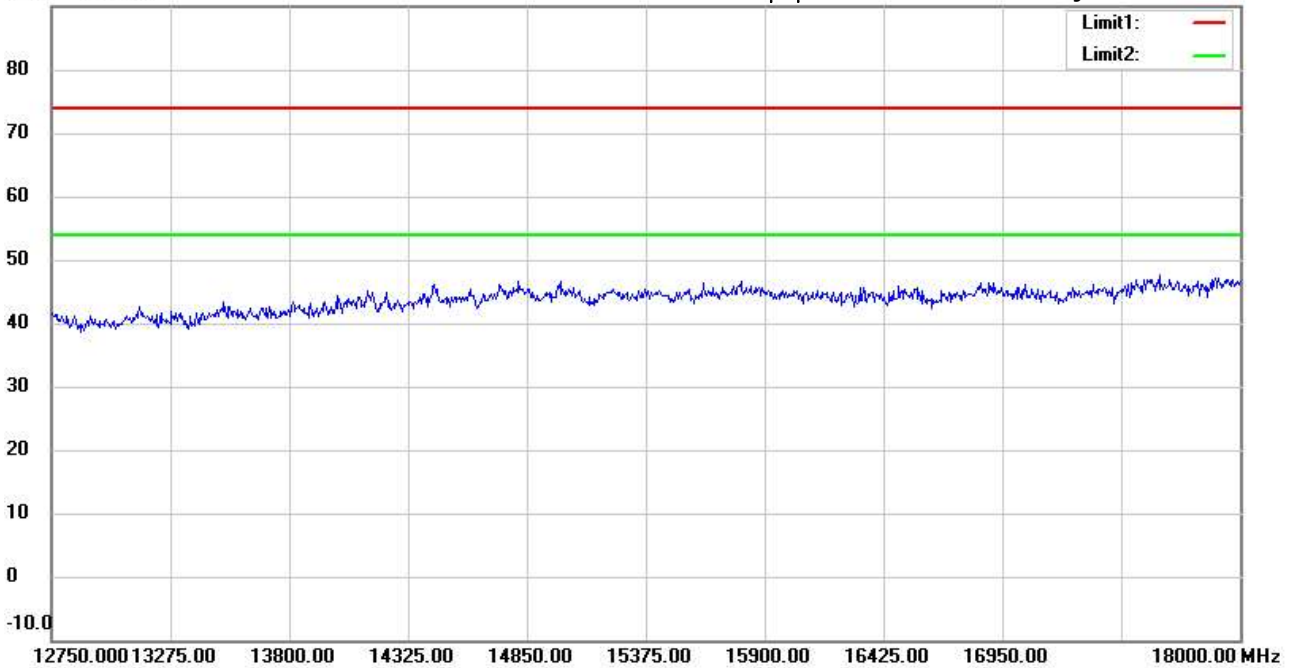
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:33:13

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

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



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 Tel: +886-2-2646-1508  
 Fax: +886-2-2646-1533

Radiated Emission Measurement

Operator: Jeff

File :3

Data :#5

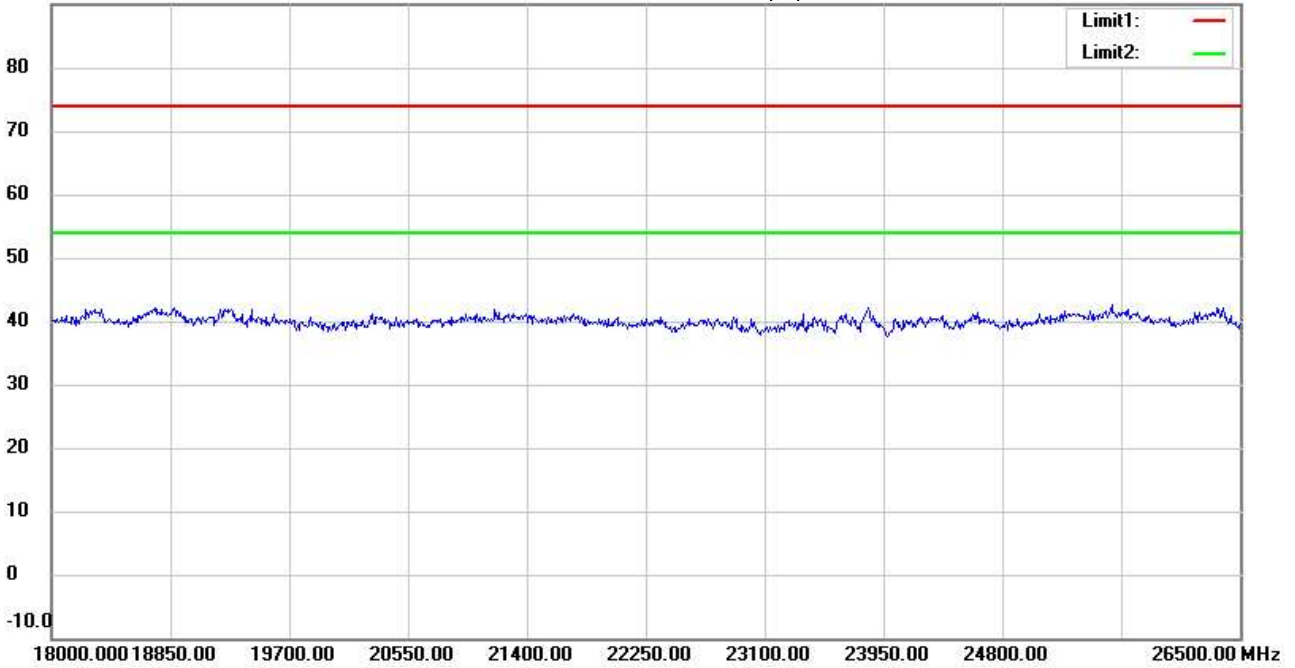
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:30:43

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

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



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

Radiated Emission Measurement

Operator: Jeff

File :3

Data :#10

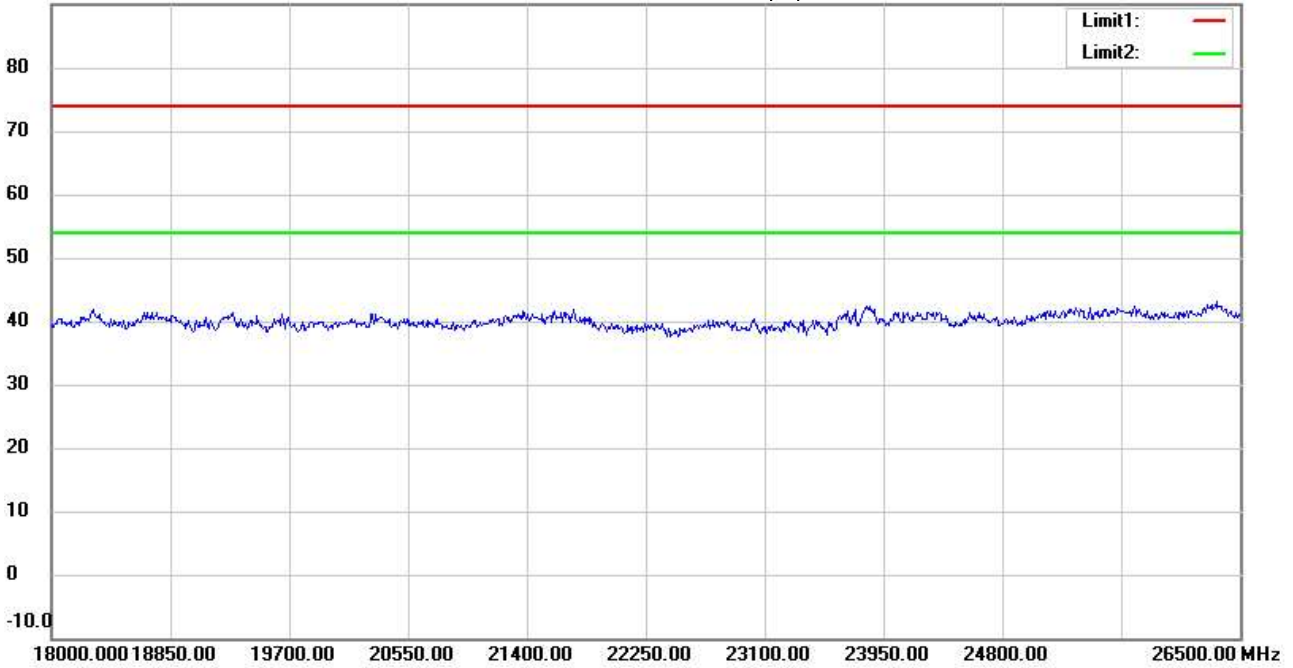
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:33:24

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

Power : 5 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 2402MHz

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
-----	-----------------	----------------	----------	---------------------	-----------------	----------------	--------------	----------------	-------------	---------

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



Radiated Emission Measurement

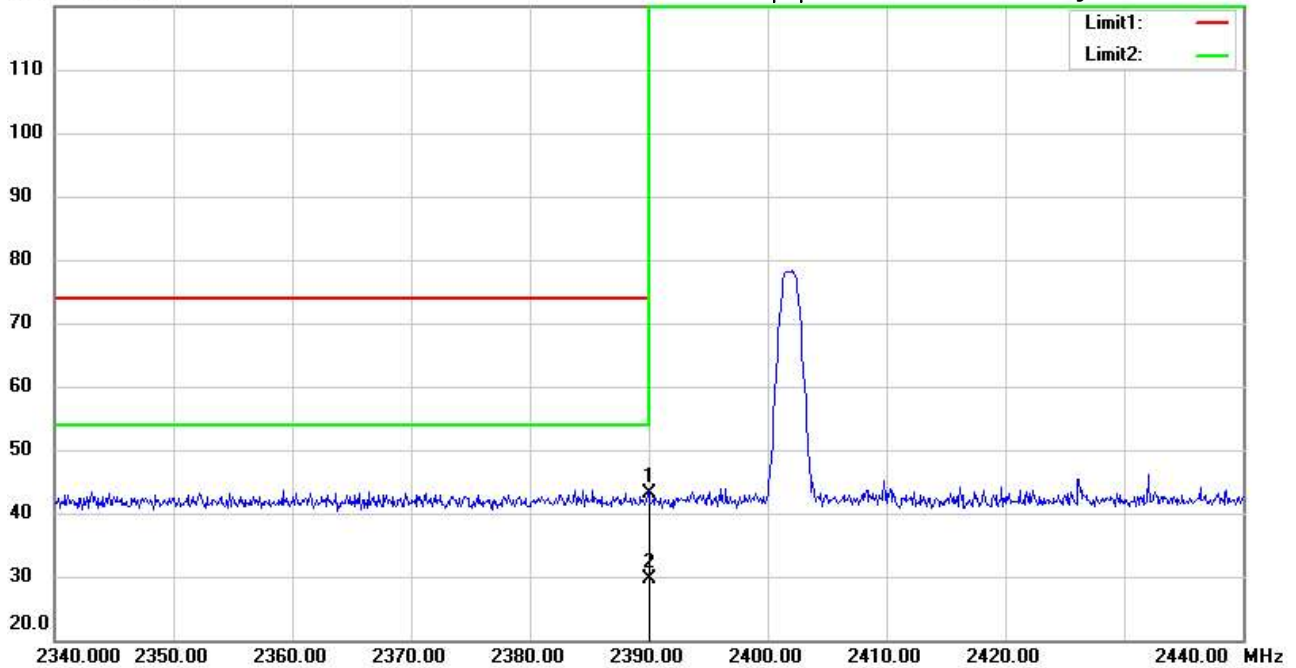
Operator: Jeff

File : BandEdge  
 120.0 dBuV/m

Data : #1

Date: 2024/8/12  
 Time: 下午 04:39:12

Temperature: 27.9 °C  
 Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC 15.247 PK (Bandedge)

EUT : W6M22405-23455

M/N:

Test Mode : TX 2402MHz

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
	2390.000	47.66	peak	-4.45	43.21	74.00	150	233	-30.79	
*	2390.000	34.09	AVG	-4.45	29.64	54.00	150	233	-24.36	



Radiated Emission Measurement

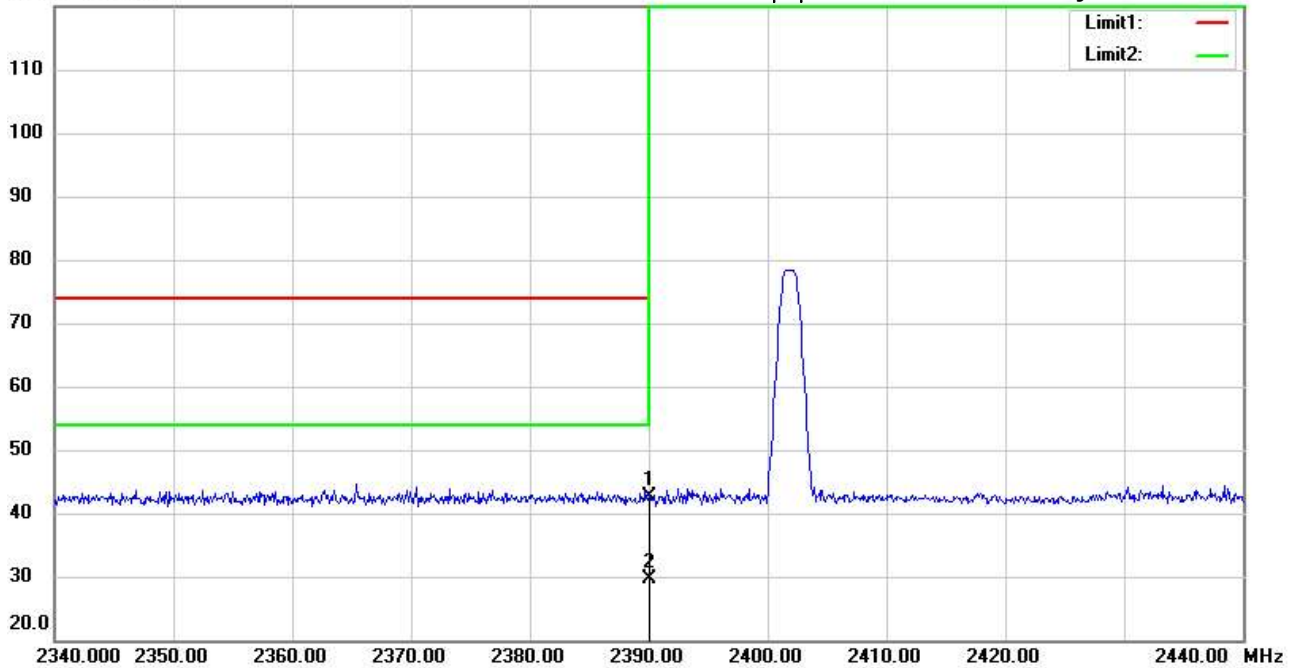
Operator: Jeff

File : BandEdge  
 120.0 dBuV/m

Data : #2

Date: 2024/8/12  
 Time: 下午 04:41:40

Temperature: 27.9 °C  
 Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC 15.247 PK (Bandedge)

EUT : W6M22405-23455

M/N:

Test Mode : TX 2402MHz

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
	2390.000	47.14	peak	-4.45	42.69	74.00	150	268	-31.31	
*	2390.000	34.14	AVG	-4.45	29.69	54.00	150	268	-24.31	





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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#1

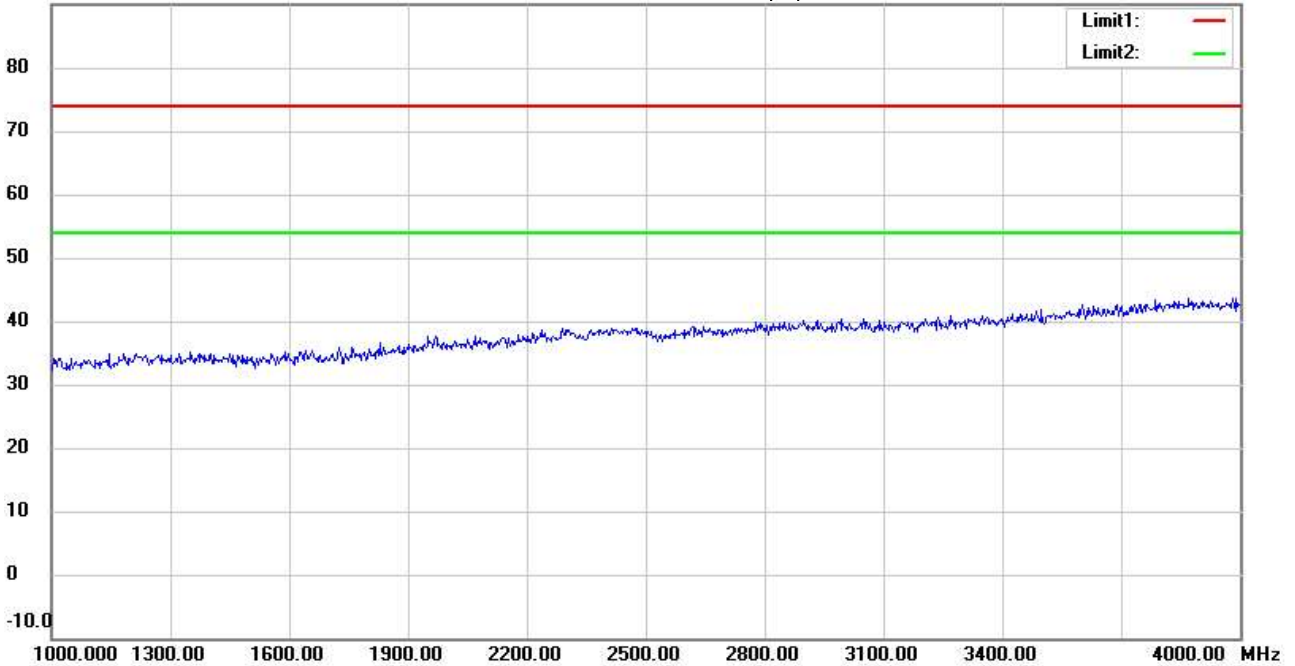
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:44:21

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#6

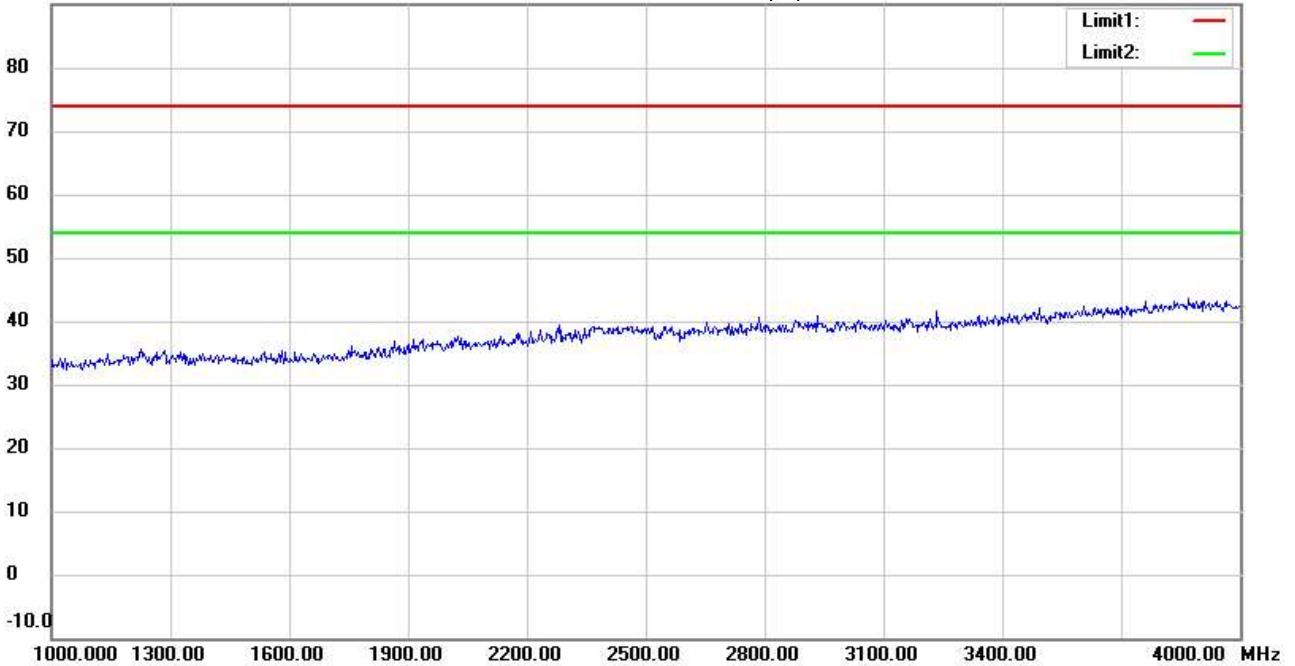
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:47:05

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#2

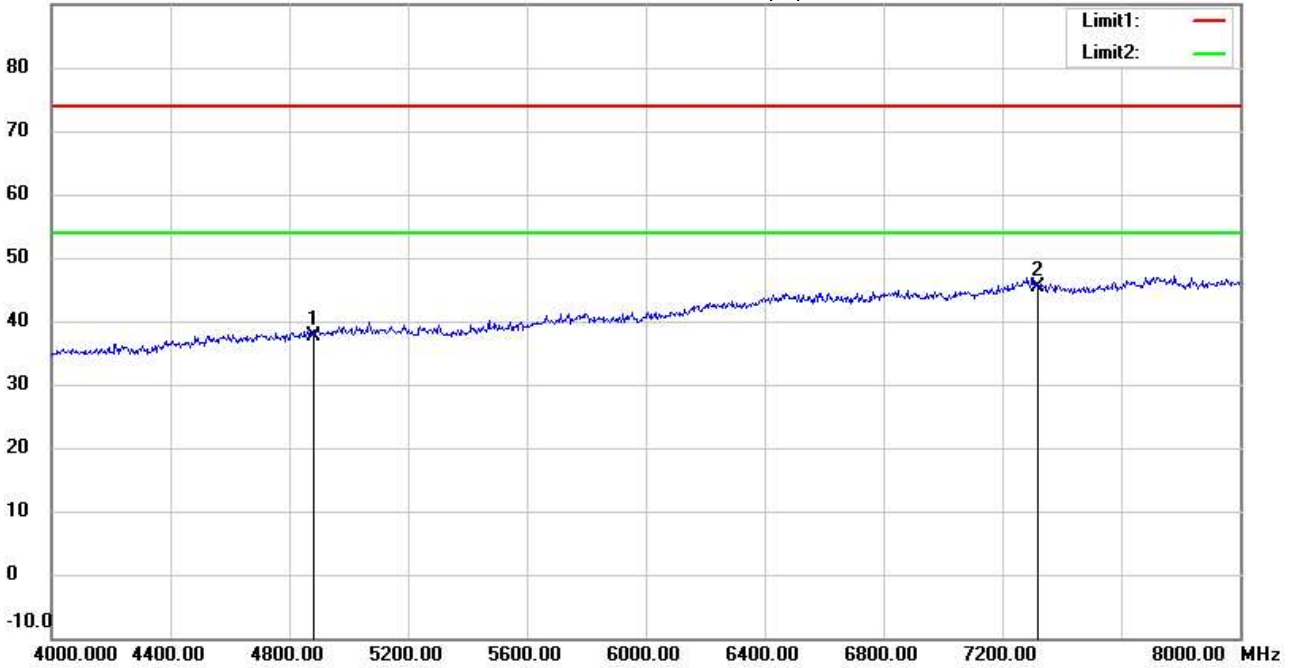
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:45:04

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: **Horizontal**

EUT : W6M22405-23455

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
	4880.000	32.80	peak	4.93	37.73	74.00	150	238	-36.27	
*	7320.000	33.16	peak	12.18	45.34	74.00	150	182	-28.66	

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



Radiated Emission Measurement

Operator: Jeff

File :3

Data :#7

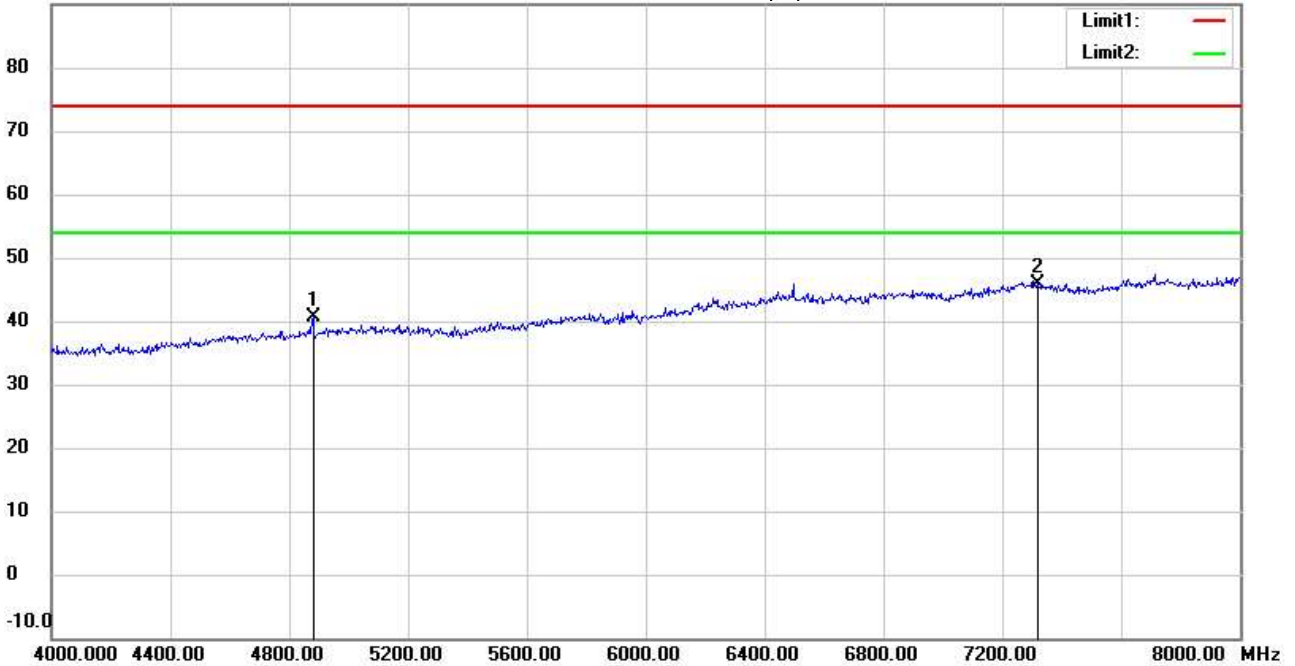
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:47:49

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

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
	4880.000	35.69	peak	4.93	40.62	74.00	150	146	-33.38	
*	7320.000	33.63	peak	12.18	45.81	74.00	150	92	-28.19	



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#3

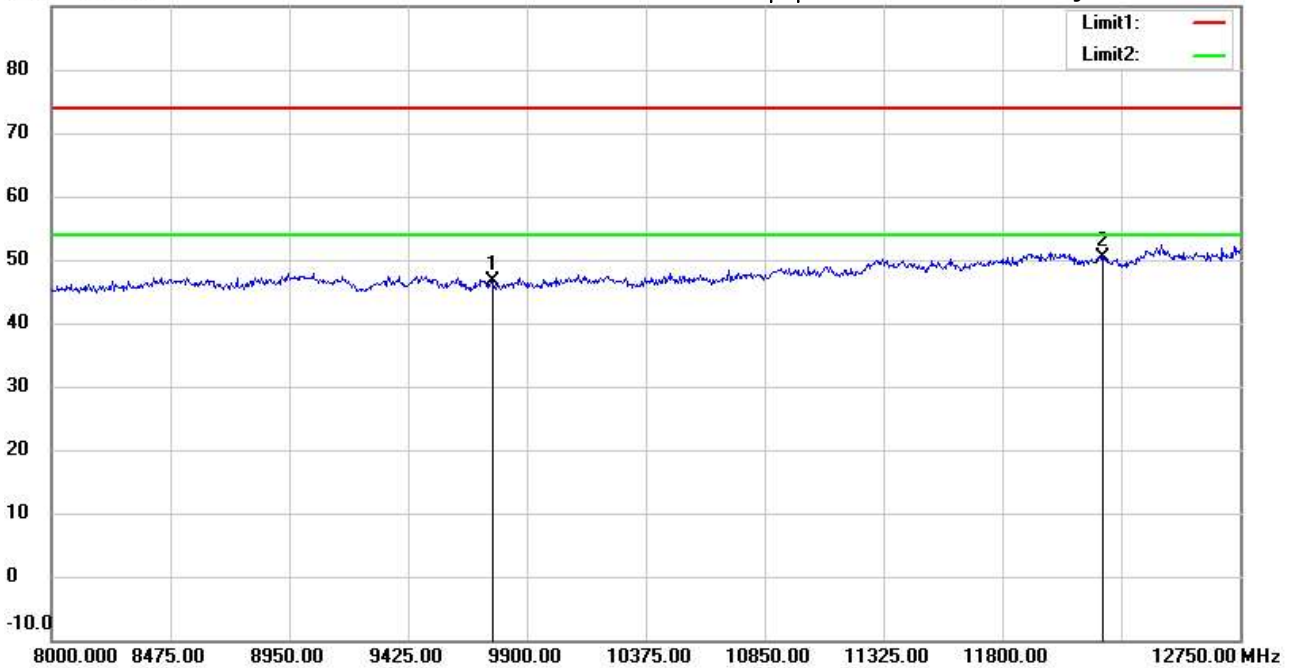
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:45:53

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Horizontal*

EUT : W6M22405-23455

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
	9760.000	33.17	peak	13.35	46.52	74.00	150	253	-27.48	
*	12200.000	33.11	peak	17.19	50.30	74.00	150	0	-23.70	

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#8

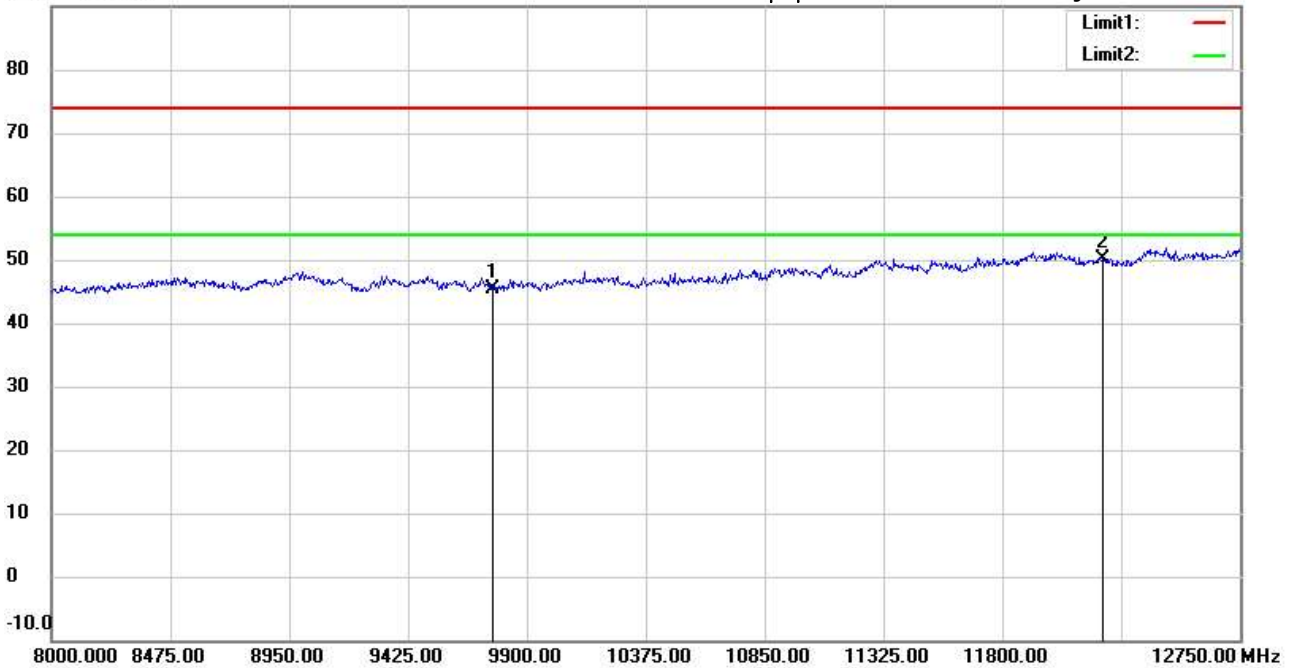
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:48:30

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

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
	9760.000	32.07	peak	13.35	45.42	74.00	150	114	-28.58	
*	12200.000	32.89	peak	17.19	50.08	74.00	150	321	-23.92	

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



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**Radiated Emission Measurement**

Operator: **Jeff**

File :3

Data :#4

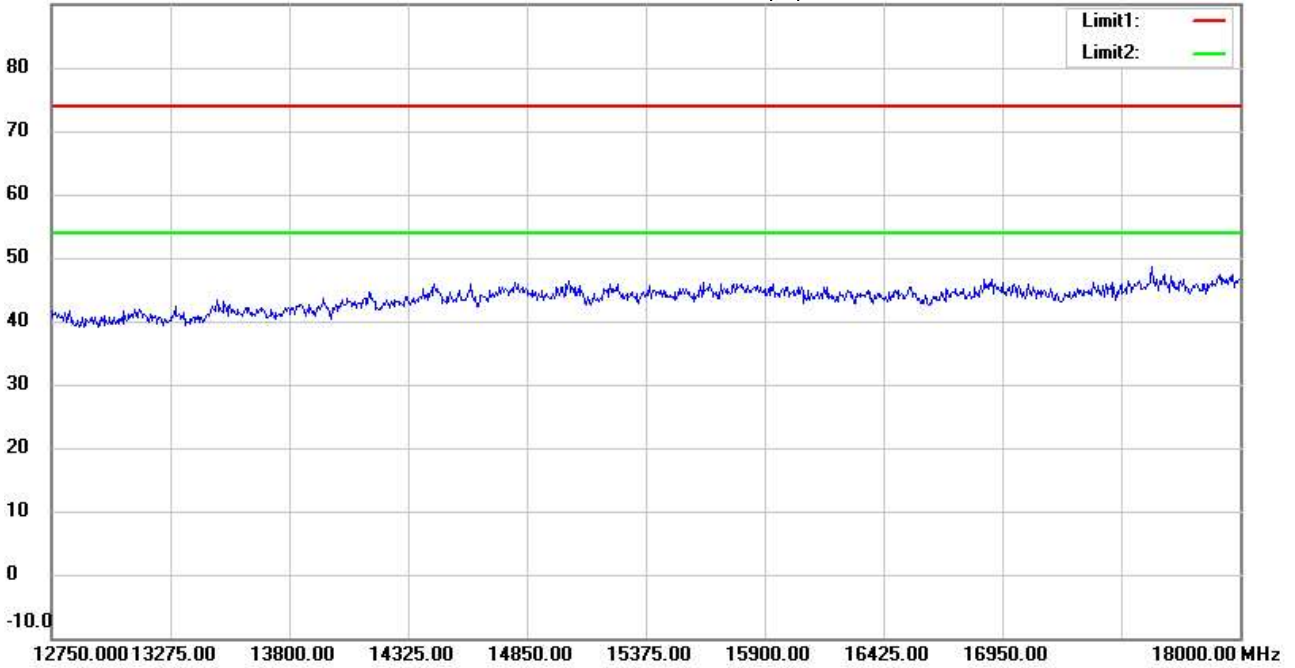
Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:46:10

Humidity: 45.4 %



Site : **966A Chamber**

Condition : **FCC\_part 15 RE-Class C\_Above 1GHz\_PK**

Polarization: **Horizontal**

EUT : **W6M22405-23455**

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



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Radiated Emission Measurement

Operator: Jeff

File :3

Data :#9

Date: 2024/8/12

Temperature: 27.9 °C

90.0 dBuV/m

Time: 下午 04:48:47

Humidity: 45.4 %



Site : 966A Chamber

Condition : FCC\_part 15 RE-Class C\_Above 1GHz\_PK

Polarization: *Vertical*

EUT : W6M22405-23455

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