

47 CFR PART 15 SUBPART C TEST REPORT

for

Panel PC

Model No.: TD-107XXXXXX (where "X" may be any alphanumeric, blank "_" or "-" for marketing purpose only)

FCC ID: 2AF82-TD1070H

of

Applicant: QBIC TECHNOLOGY CO.,LTD

**Address: 26F.-12,No.99,Sec.1,Xintai 5th Rd.,Xizhi Dist., New Taipei City
Taiwan**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW1072

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



Report No.: W6M22203-21702-C-1

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: wts@wts-lab.com

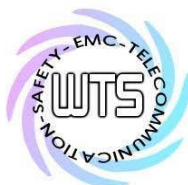


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1 General Information

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.

Tester:

June 15, 2022

Sora Kuo

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

June 15, 2022

Kevin Wang

Date

WTS

Name

Signature



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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.)
Tel: 886-2-6613-0228

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.: TW1477, TW1072

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

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

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



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1.3 Details of approval holder

Name: QBIC TECHNOLOGY CO.,LTD
Street: 26F.-12,No.99,Sec.1,Xintai 5th Rd.,Xizhi Dist.,
City: New Taipei City
Country: Taiwan

1.4 Application details

Date of receipt of test item: March 29, 2022
Date of test: from March 30, 2022 to June 01, 2022

1.5 General information of Test item

Description of test item: Panel PC

Type identification: TD-107XXXXXX (where "X" may be any alphanumeric, blank
"_" or "-" for marketing purpose only)

Multi-listing model number: ./.

Transmitting frequency: 13.56 MHz

Operation mode: Duplex

Voltage supply: Adaptor: (I/P: 100~240Va.c., 50~60Hz, 0.9A Max.
O/P: 12Vd.c., 2.5A, 30.0W)

Antenna type: Coil antenna

Sample no.: #01

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.225 (2020-10)



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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 %

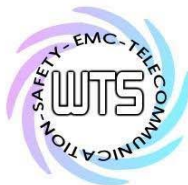
Air pressure: 86 ... 103 kPa

Details of power supply: Adaptor: (I/P: 100~240Va.c., 50~60Hz, 0.9A Max.
O/P: 12Vd.c., 2.5A, 30.0W)

Extreme conditions parameters: ./.

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 1.03 dB Voltage probe : 1.05 dB
Estimation Result of Uncertainty of Radiated Emission(3M) (Output Power (Field Strength), Out of Band Radiated Emissions, Band Edge)	Expanded Uncertainty : 0.009-30 MHz : 3.48 dB 30-1000 MHz : 4.48 dB 1-18 GHz : 4.15 dB 18-40 GHz : 3.78 dB
Estimation Result of Uncertainty of Bandwidth Measurement (Occupied Bandwidth)	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement (Frequency tolerance)	Expanded Uncertainty : 6.11 Hz

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



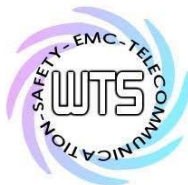
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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2021/6/17	2022/6/16
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2021/11/9	2022/11/8
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2021/9/22	2022/9/21
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2021/7/29	2022/7/28
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2021/11/8	2022/11/7
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2021/7/28	2022/7/27
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2021/6/17	2022/6/16
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2021/9/28	2022/9/27
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2021/8/4	2022/8/3
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2022/5/20	2023/5/19
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2021/6/16	2022/6/15
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2022/5/23	2023/5/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2022/3/4	2023/3/3
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2022/5/20	2023/5/19
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2021/7/14	2022/7/13
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2022/3/28	2023/3/27
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2022/2/18	2023/2/17
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2022/5/13	2023/5/12
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2021/10/27	2022/10/26
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2021/9/17	2022/9/16
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2022/5/20	2023/5/19
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	

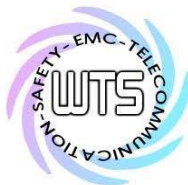


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ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2022/1/5	2023/1/4
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	2021/10/29	2022/10/28
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2022/6/3	2023/6/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2021/8/6	2022/8/5
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2021/8/6	2022/8/5
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2022/2/18	2023/2/17
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2021/8/6	2022/8/5
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2021/8/6	2022/8/5
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2022/5/13	2023/5/12
ETSTW-RE 146	Preamplifier	JPA-10M1G	15090004	JPT	2022/5/27	2023/5/26
ETSTW-RE 152	Bi-log Hybrid Antenna	MCTD 2786B	BLB20J04029	ETC	2021/10/5	2022/10/4
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2021/10/6	2022/10/5
ETSTW-RE 159	Bi-log Hybrid Antenna (30M~1000 MHz)	MCTD 2786B	BLB21N04035	ETC	2021/12/06	2022/12/05
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2021/7/19	2022/7/18
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2022/5/20	2023/5/19
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2022/3/28	2023/3/27
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2022/5/9	2023/5/8
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2021/10/29	2022/10/28
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2021/9/7	2022/9/6
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2022/5/3	2023/5/2
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2021/8/6	2022/8/5
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2021/7/1	2022/6/30
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2022/5/6	2023/5/5
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2021/9/17	2022/9/16
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2021/9/17	2022/9/16
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2022/2/18	2023/2/17
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2022/5/13	2023/5/12



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ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2021/7/2	2022/7/1
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2022/5/27	2023/5/26
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2022/5/27	2023/5/26
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2022/5/13	2023/5/12
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2021/10/18	2022/10/17
ETSTW-TH 003	Wireless weather station	GAIA	N/A	TFA	2021/10/18	2022/10/17



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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 dBμV) 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 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.10-2013 Section 6.2.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

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.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over



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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 value.

The formula is as follows:

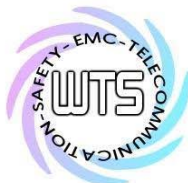
Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

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.



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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Output Power Field Strength	15.225 (a) (b) (c)	☒	☒	☐
Out of Band Radiated Emissions	15.225 (d)	☒	☒	☐
Band Edge	15.225 (d)	☒	☒	☐
Occupied Bandwidth	2.1049	☒	☒	☐
Frequency Stability	15.225 (e)	☒	☒	☐
Power Line Conducted Emission	15.207 (a)	☒	☒	☐

The following is intentionally left blank.



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3.1 Output Power (Field Strength)

FCC Rules: 15.225 (a) (b) (c), 15.205, 15.209, 15.35

Operation within the band 13.110 - 14.010 MHz

Limit

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

Measurement Results:

Adaptor mode

The field strength at 3 meter distance as 57.38 dB μ V/m. Extrapolated with 40dB to 30 meter distance it would be 17.38 dB μ V/m.

POE mode

The field strength at 3 meter distance as 57.88 dB μ V/m. Extrapolated with 40dB to 30 meter distance it would be 17.88 dB μ V/m.



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Radiated Emission Measurement

Operator: Vincent

File :MASK(power)(Adapter)

Data :#1

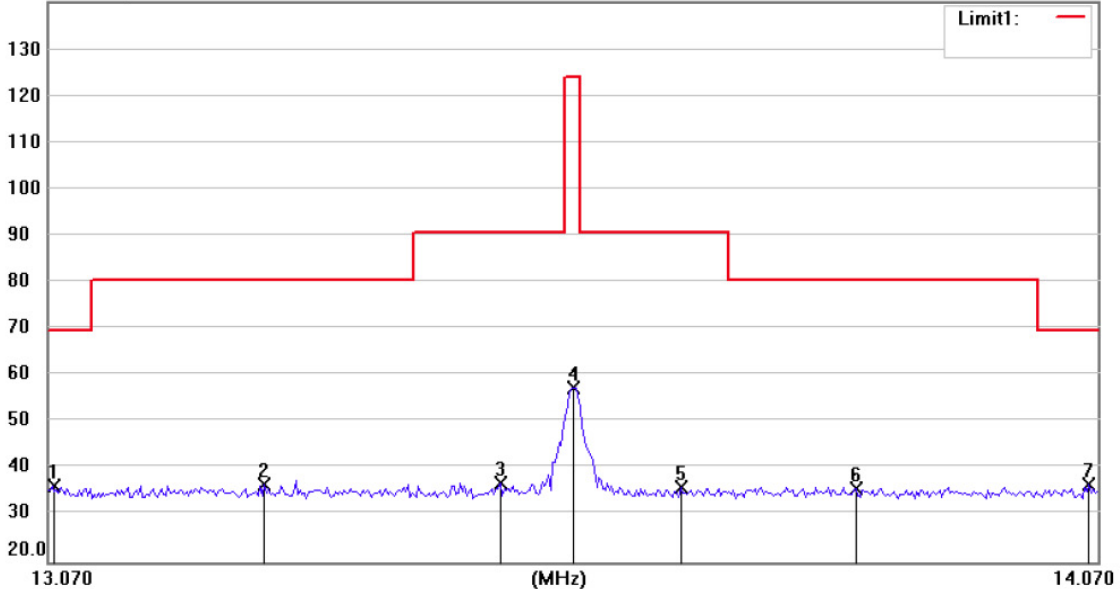
Date: 5/19/2022

Temperature:25.4 °C

Time: 5:09:52 PM

Humidity:63.7 %

140.0 dBuV/m



Site : Chamber

Condition : FCC 15.225 power (3m)(13.56MHz)

Polarization:

EUT : W6M22203-21702

Power : 120 Va.c.

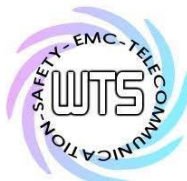
M/N:

Distance: 3m

Test Mode : TX 13.56MHz

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
	13.0740	2.50	peak	33.81	36.31	69.50	100	0	-33.19	
	13.2704	2.72	peak	33.79	36.51	80.50	100	0	-43.99	
	13.4916	3.26	peak	33.76	37.02	90.50	100	0	-53.48	
	13.5618	23.62	peak	33.76	57.38	124.00			-66.62	RF Power
	13.6644	2.25	peak	33.75	36.00	90.50	100	0	-54.50	
	13.8330	2.07	peak	33.73	35.80	80.50	100	0	-44.70	
*	14.0617	3.07	peak	33.71	36.78	69.50	100	0	-32.72	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Radiated Emission Measurement

Operator: Vincent
Temperature: 25.4 °C
Humidity: 63.7 %

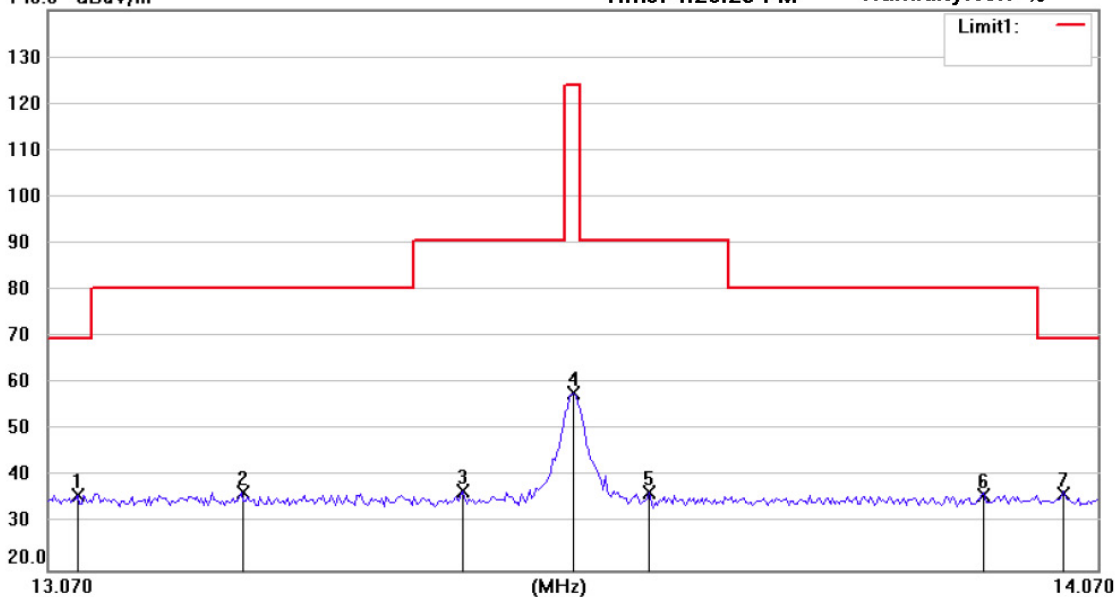
File : MASK(power)(POE)

Data : #1

Date: 5/19/2022

Time: 4:26:25 PM

140.0 dBuV/m



Site : Chamber

Condition : FCC 15.225 power (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization:

Power : POE

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
	13.0971	2.18	peak	33.80	35.98	69.50	100	3	-33.52	
	13.2490	2.79	peak	33.79	36.58	80.50	100	3	-43.92	
	13.4560	3.30	peak	33.77	37.07	90.50	100	3	-53.43	
	13.5618	24.12	peak	33.76	57.88	124.00			-66.12	RF Power
	13.6341	2.76	peak	33.75	36.51	90.50	100	3	-53.99	
	13.9582	2.31	peak	33.72	36.03	80.50	100	3	-44.47	
*	14.0368	2.66	peak	33.71	36.37	69.50	100	3	-33.13	

Test equipment used: ETSTW-RE 027, ETSTW-RE 055



Registration number: W6M22203-21702-C-1

FCC ID: 2AF82-TD1070H

3.2 Out of Band Radiated Emissions

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Frequency of Emission (MHz)	Limit	Measurement distance
0.009 – 0.490	2400 / f (KHz)	300
0.49 – 1.705	24000 / f (KHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

Summary table with radiated data of the test plots

Model: TD-107XXXXXX (where "X" may be any alphanumeric, blank " " or "-" for marketing purpose only) 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. See attached diagrams in appendix.

Explanation:

All other not noted test plots do not contain significant test results in relation to the limits

Test results: The unit meet the FCC requirements.

Test equipment used: ETSTW-RE 004, ETSTW-RE 027, ETSTW-RE 142, ETSTW-RE 152, ETSTW-RE 062



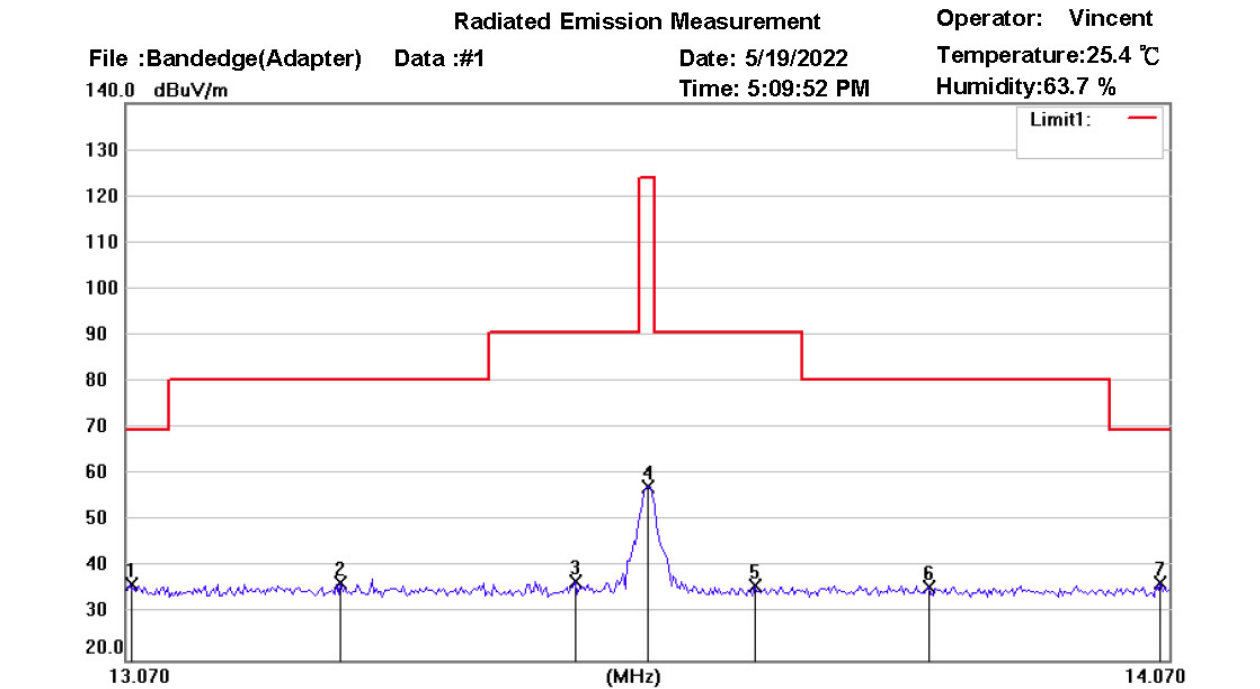
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1

FCC ID: 2AF82-TD1070H

Test equipment used: ETSTW-RE 004, ETSTW-RE 027, ETSTW-RE 142, ETSTW-RE 152, ETSTW-RE 062

Test result of Band Edge



Site : Chamber

Condition : FCC 15.225 (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

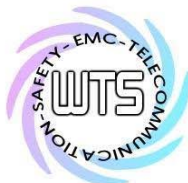
Note :

Polarization:

Power : 120 Va.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
	13.0740	2.50	peak	33.81	36.31	69.50	100	0	-33.19	
	13.2704	2.72	peak	33.79	36.51	80.50	100	0	-43.99	
	13.4916	3.26	peak	33.76	37.02	90.50	100	0	-53.48	
	13.5618	23.62	peak	33.76	57.38	124.00			-66.62	RF Power
	13.6644	2.25	peak	33.75	36.00	90.50	100	0	-54.50	
	13.8330	2.07	peak	33.73	35.80	80.50	100	0	-44.70	
*	14.0617	3.07	peak	33.71	36.78	69.50	100	0	-32.72	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Radiated Emission Measurement

Operator: Vincent
Temperature: 25.4 °C
Humidity: 63.7 %

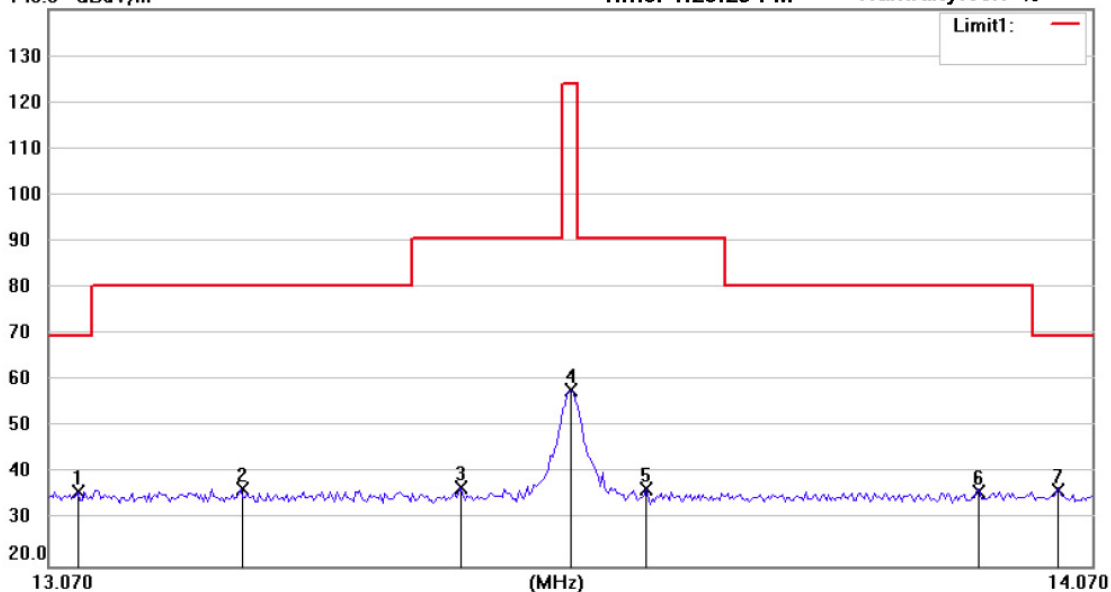
File : Bandedge(POE)

Data : #1

Date: 5/19/2022

Time: 4:26:25 PM

140.0 dBuV/m



Site : Chamber

Condition : FCC 15.225 (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization:

Power : POE

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
	13.0971	2.18	peak	33.80	35.98	69.50	100	3	-33.52	
	13.2490	2.79	peak	33.79	36.58	80.50	100	3	-43.92	
	13.4560	3.30	peak	33.77	37.07	90.50	100	3	-53.43	
	13.5618	24.12	peak	33.76	57.88	124.00			-66.12	RF Power
	13.6341	2.76	peak	33.75	36.51	90.50	100	3	-53.99	
	13.9582	2.31	peak	33.72	36.03	80.50	100	3	-44.47	
*	14.0368	2.66	peak	33.71	36.37	69.50	100	3	-33.13	

Test equipment used: ETSTW-RE 055

Registration number: W6M22203-21702-C-1

FCC ID: 2AF82-TD1070H

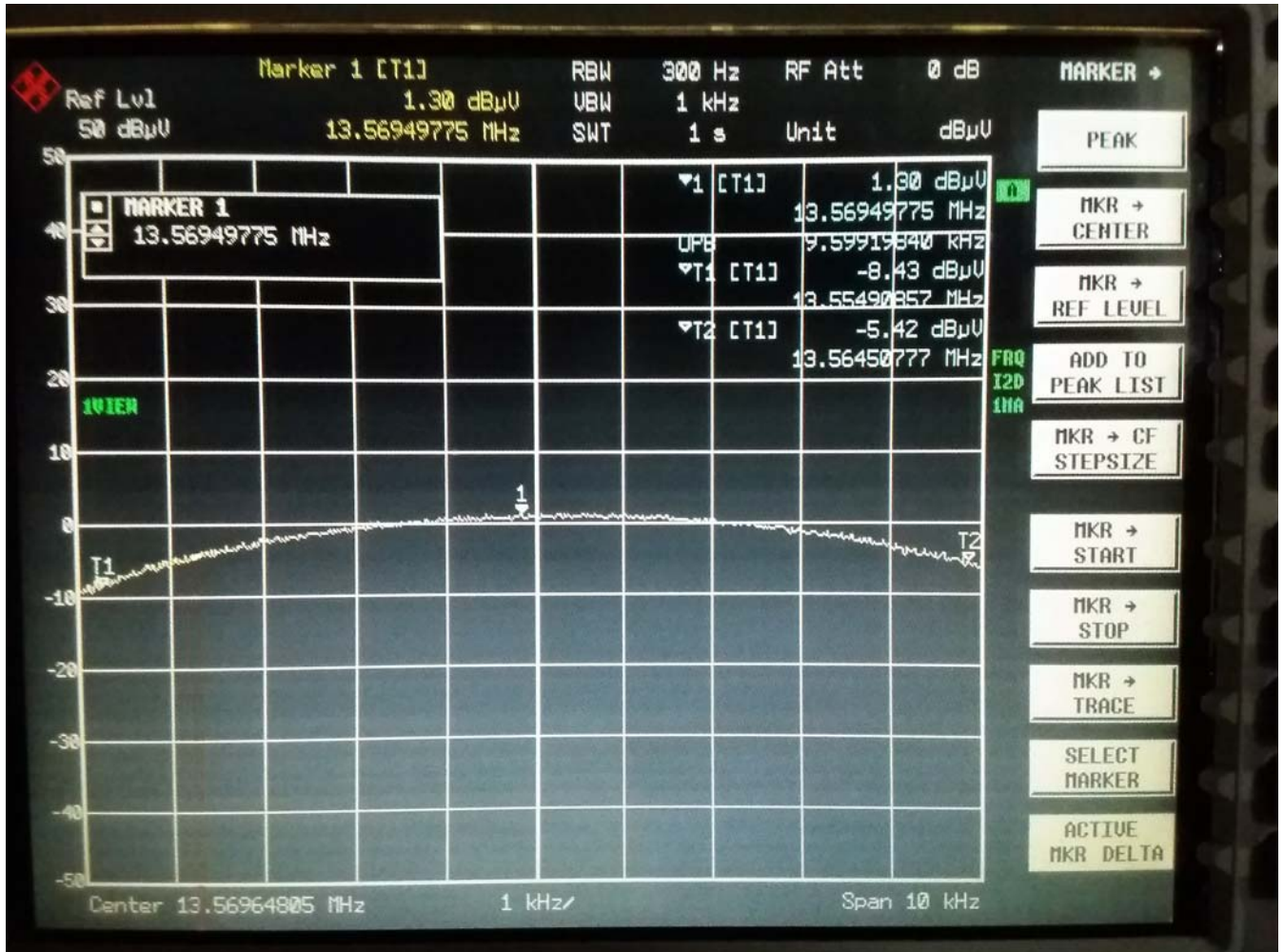
3.3 Occupied Bandwidth

Test date: May 20, 2022

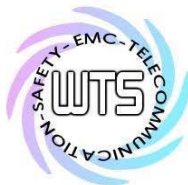
Temperature: 24.6 °C

Humidity: 56.0 %

Tester: Sora



Test equipment used: ETSTW-RE 055, ETSTW-RE 064



Registration number: W6M22203-21702-C-1

FCC ID: 2AF82-TD1070H

3.4 Frequency tolerance

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test date: May 24, 2022

Temperature: 23.4 °C

Humidity: 55.1 %

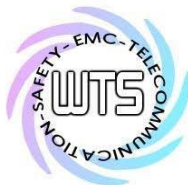
Tester: Sora

Measurement Results:

Temperature Degrees	Voltage(Va.c.)	Frequency MHz	Frequency deviation KHz	Limit KHz(0.01%)
20°C	108	13.559936	0.000	1.356
20°C	132	13.559936	0.000	1.356
50°C	120	13.559808	0.128	1.356
40°C	120	13.559856	0.080	1.356
30°C	120	13.559904	0.032	1.356
*20°C	120	13.559936	0.000	1.356
10°C	120	13.559936	0.000	1.356
0°C	120	13.559952	-0.016	1.356
-10°C	120	13.559952	-0.016	1.356
-20°C	120	13.559936	0.000	1.356

*Represent test standard frequency

Test equipment used: ETSTW-RE 055, ETSTW-CE 009



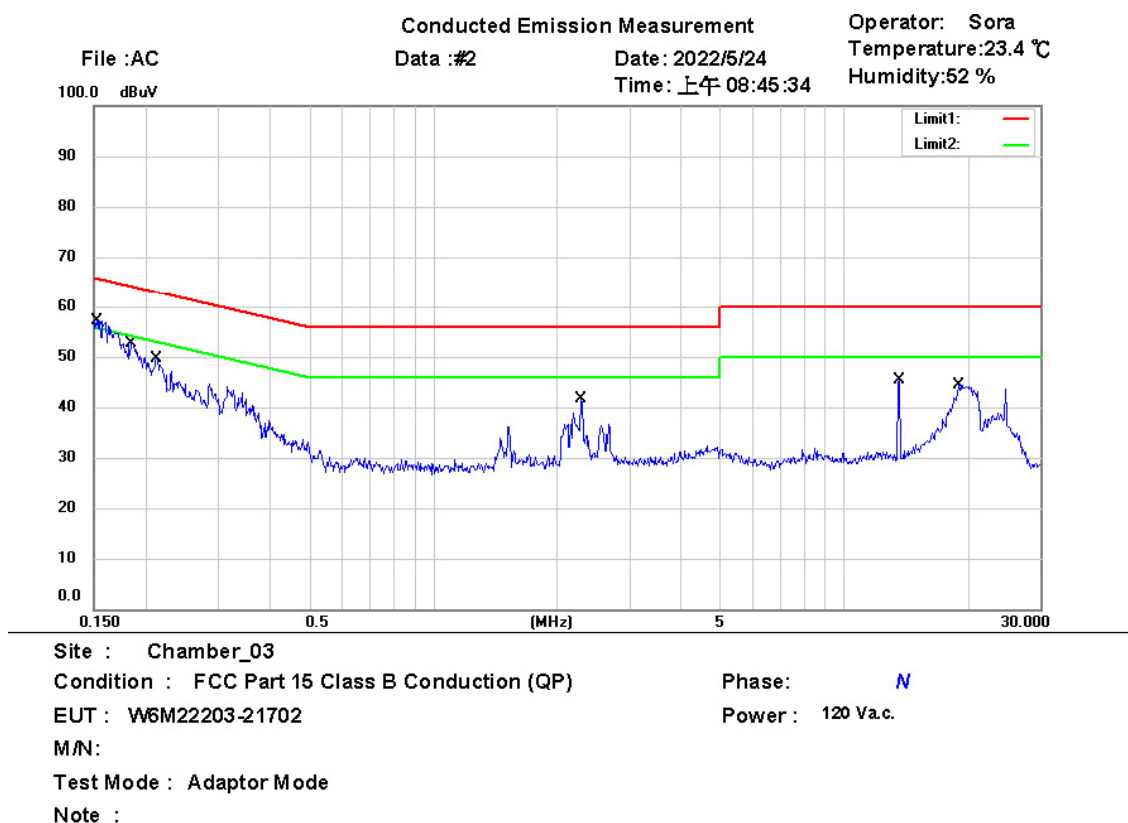
Registration number: W6M22203-21702-C-1

FCC ID: 2AF82-TD1070H

3.5 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.



Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1520	39.11	QP	9.61	48.72	65.89	-17.17	
	0.1520	21.15	AVG	9.61	30.76	55.89	-25.13	
	0.1840	36.89	QP	9.61	46.50	64.30	-17.80	
	0.1840	20.94	AVG	9.61	30.55	54.30	-23.75	
	0.2120	32.31	QP	9.60	41.91	63.13	-21.22	
	0.2120	17.54	AVG	9.60	27.14	53.13	-25.99	
*	2.2820	29.84	QP	9.78	39.62	56.00	-16.38	
	2.2820	19.65	AVG	9.78	29.43	46.00	-16.57	
	13.5750	11.51	QP	10.15	21.66	60.00	-38.34	
	13.5750	3.24	AVG	10.15	13.39	50.00	-36.61	
	19.0162	26.64	QP	10.27	36.91	60.00	-23.09	
	19.0162	19.18	AVG	10.27	29.45	50.00	-20.55	

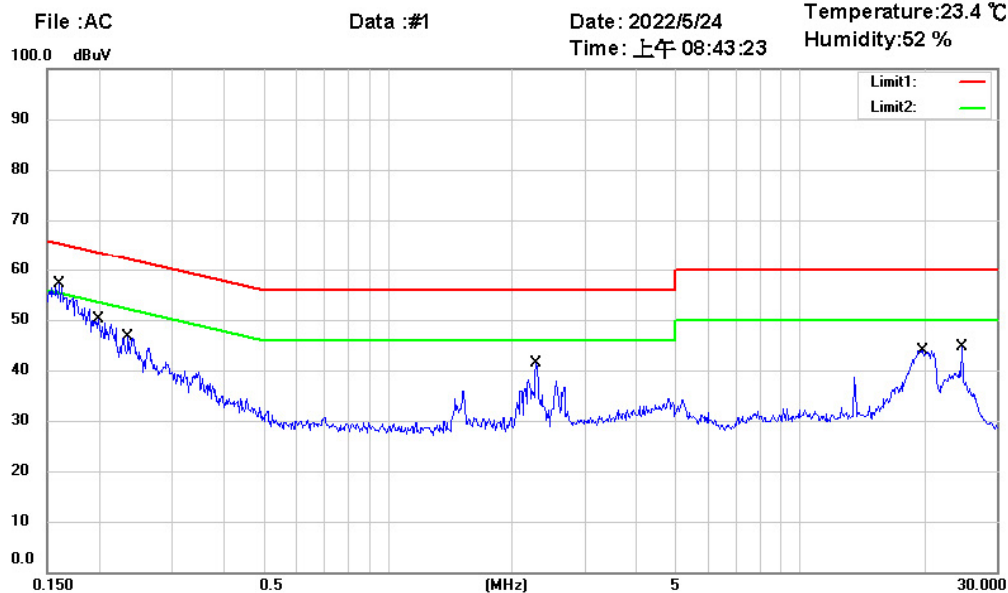


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Conducted Emission Measurement

Operator: Sora
Temperature: 23.4 °C
Humidity: 52 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22203-21702

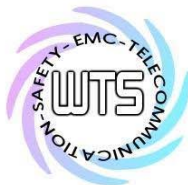
Power : 120 V.a.c.

M/N:

Test Mode : Adaptor Mode

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1602	41.49	QP	9.62	51.11	65.45	-14.34	
	0.1602	24.05	AVG	9.62	33.67	55.45	-21.78	
	0.1995	31.04	QP	9.62	40.66	63.63	-22.97	
	0.1995	10.89	AVG	9.62	20.51	53.63	-33.12	
	0.2352	27.60	QP	9.59	37.19	62.26	-25.07	
	0.2352	10.52	AVG	9.59	20.11	52.26	-32.15	
	2.2843	28.19	QP	9.76	37.95	56.00	-18.05	
	2.2843	18.13	AVG	9.76	27.89	46.00	-18.11	
	19.8011	26.80	QP	10.11	36.91	60.00	-23.09	
	19.8011	18.87	AVG	10.11	28.98	50.00	-21.02	
	24.5750	32.52	QP	10.16	42.68	60.00	-17.32	
*	24.5750	26.57	AVG	10.16	36.73	50.00	-13.27	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Conducted Emission Measurement

Operator: Sora

Data :#8

Date: 2022/5/24

Temperature: 23.4 °C

Time: 上午 09:49:56

Humidity: 52 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M22203-21702

Power : 120 V.a.c.

M/N:

Test Mode : POE Mode

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1586	34.61	QP	9.61	44.22	65.54	-21.32	
	0.1586	27.74	AVG	9.61	37.35	55.54	-18.19	
	0.4150	34.83	QP	9.45	44.28	57.55	-13.27	
	0.4150	13.81	AVG	9.45	23.26	47.55	-24.29	
	0.5225	33.06	QP	9.49	42.55	56.00	-13.45	
	0.5225	22.86	AVG	9.49	32.35	46.00	-13.65	
	0.8667	31.47	QP	9.63	41.10	56.00	-14.90	
	0.8667	19.21	AVG	9.63	28.84	46.00	-17.16	
	12.1942	38.41	QP	10.11	48.52	60.00	-11.48	
*	12.1942	36.59	AVG	10.11	46.70	50.00	-3.30	
	13.4430	38.16	QP	10.14	48.30	60.00	-11.70	
	13.4430	35.57	AVG	10.14	45.71	50.00	-4.29	

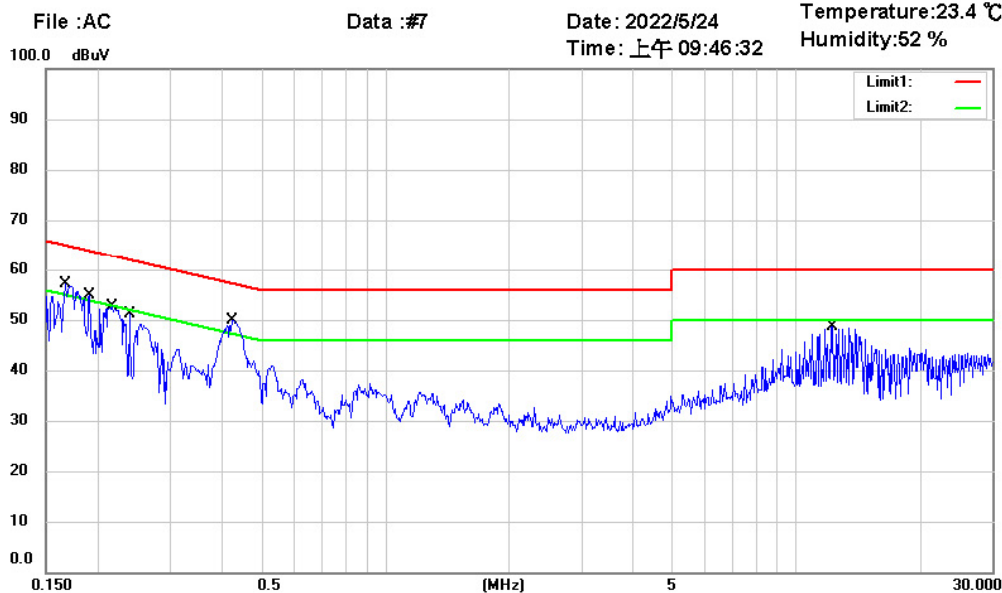


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Conducted Emission Measurement
Data :#7
Date: 2022/5/24
Time: 上午 09:46:32

Operator: Sora
Temperature: 23.4 °C
Humidity: 52 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M22203-21702

Power : 120 V.a.c.

M/N:

Test Mode : POE Mode

Note :

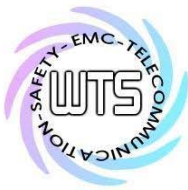
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1668	43.21	QP	9.62	52.83	65.12	-12.29	
	0.1668	23.45	AVG	9.62	33.07	55.12	-22.05	
	0.1908	35.37	QP	9.62	44.99	64.00	-19.01	
	0.1908	22.87	AVG	9.62	32.49	54.00	-21.51	
	0.2170	40.27	QP	9.61	49.88	62.93	-13.05	
	0.2170	26.87	AVG	9.61	36.48	52.93	-16.45	
	0.2386	28.74	QP	9.59	38.33	62.14	-23.81	
	0.2386	13.45	AVG	9.59	23.04	52.14	-29.10	
	0.4237	37.13	QP	9.46	46.59	57.38	-10.79	
	0.4237	18.47	AVG	9.46	27.93	47.38	-19.45	
	12.1928	37.87	QP	10.01	47.88	60.00	-12.12	
*	12.1928	36.86	AVG	10.01	46.87	50.00	-3.13	

- Note: 1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit 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

Test equipment used: ETSTW-CE 001, ETSTW-CE 016, ETSTW-RE 045.



Registration number: W6M22203-21702-C-1
FCC ID: 2AF82-TD1070H

Appendix

Measurement diagrams

Radiated Emissions



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File : 1

Data : #1

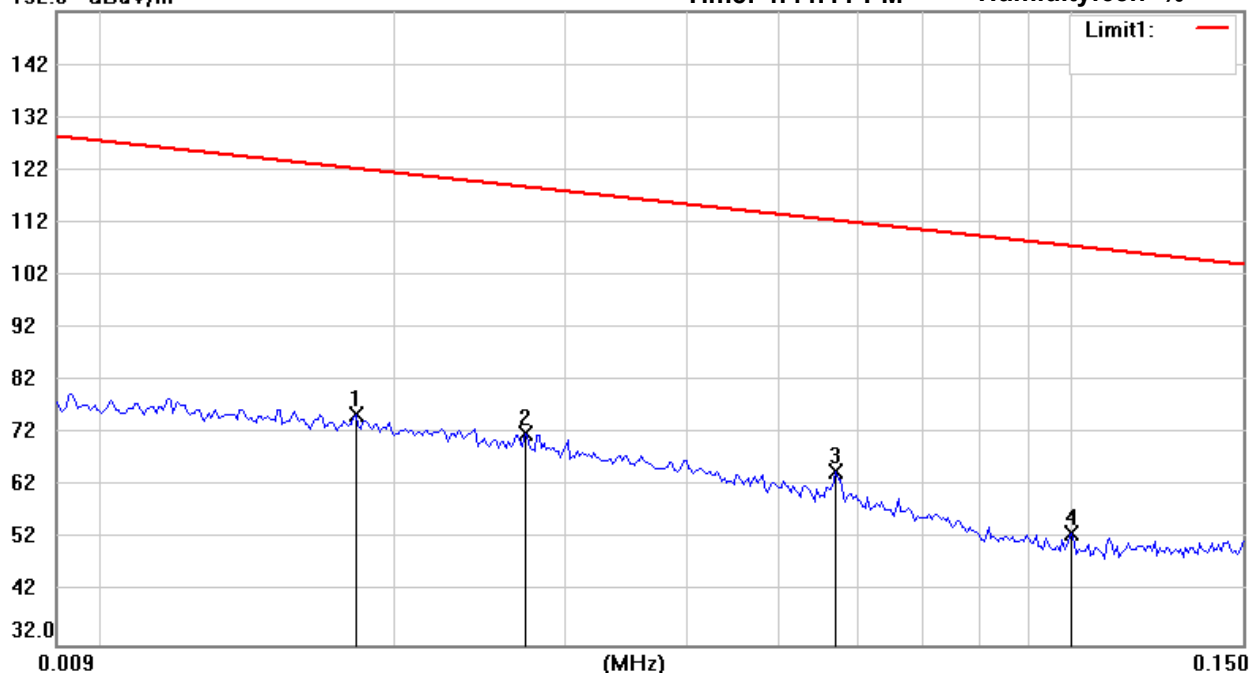
Date: 5/19/2022

Temperature: 25.4 °C

152.0 dBuV/m

Time: 4:44:11 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

Polarization:

Power : POE

Distance: 3m

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
*	0.0183	-5.22	peak	80.77	75.55	122.35	100	115	-46.80	
	0.0273	-5.32	peak	77.35	72.03	118.87	100	90	-46.84	
	0.0572	-5.80	peak	70.75	64.95	112.45	100	225	-47.50	
	0.1000	-11.68	peak	64.92	53.24	107.60	100	40	-54.36	

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



Radiated Emission Measurement

Operator: Vincent

File : 2

Data : #1

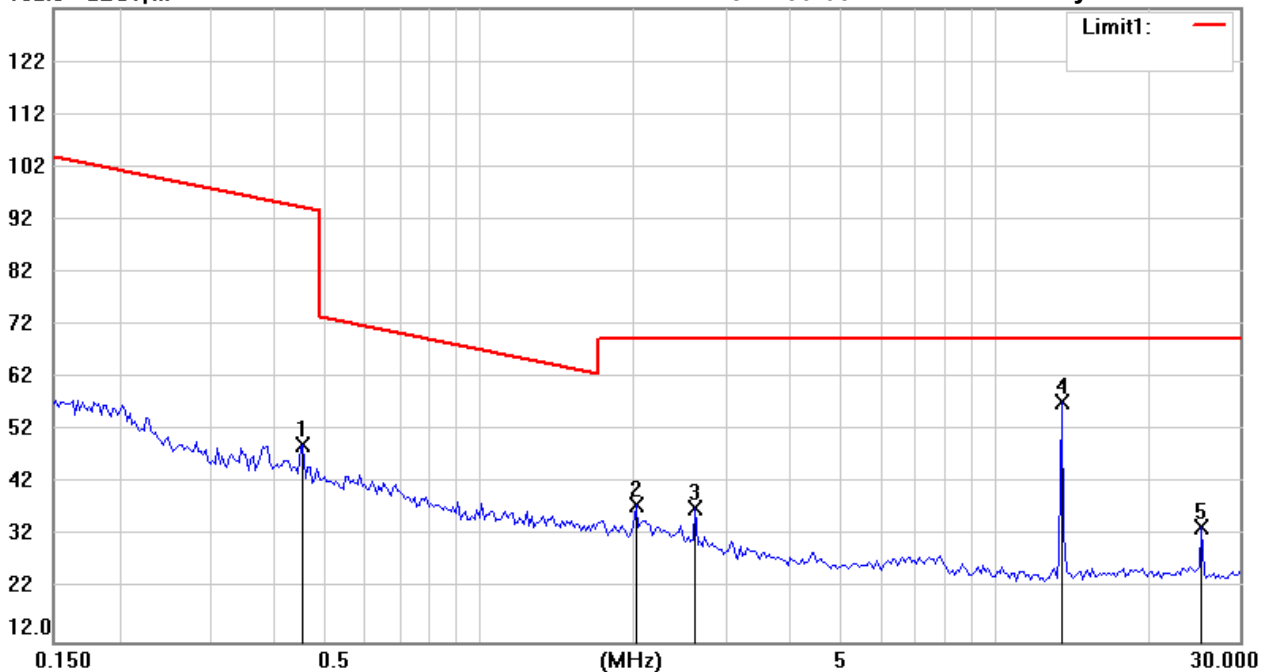
Date: 5/19/2022

Temperature: 25.4 °C

132.0 dBuV/m

Time: 4:50:03 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization:

Power : POE

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
	0.4573	-3.33	peak	52.78	49.45	94.40	100	113	-44.95	
	2.0221	-4.33	peak	42.19	37.86	69.54	100	249	-31.68	
	2.6371	-2.40	peak	39.71	37.31	69.54	100	10	-32.23	
*	13.5290	23.75	peak	33.76	57.51	69.54			-12.03	RF Power
	25.3127	1.11	peak	32.77	33.88	69.54	100	200	-35.66	



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, Neihu, Taipei
Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

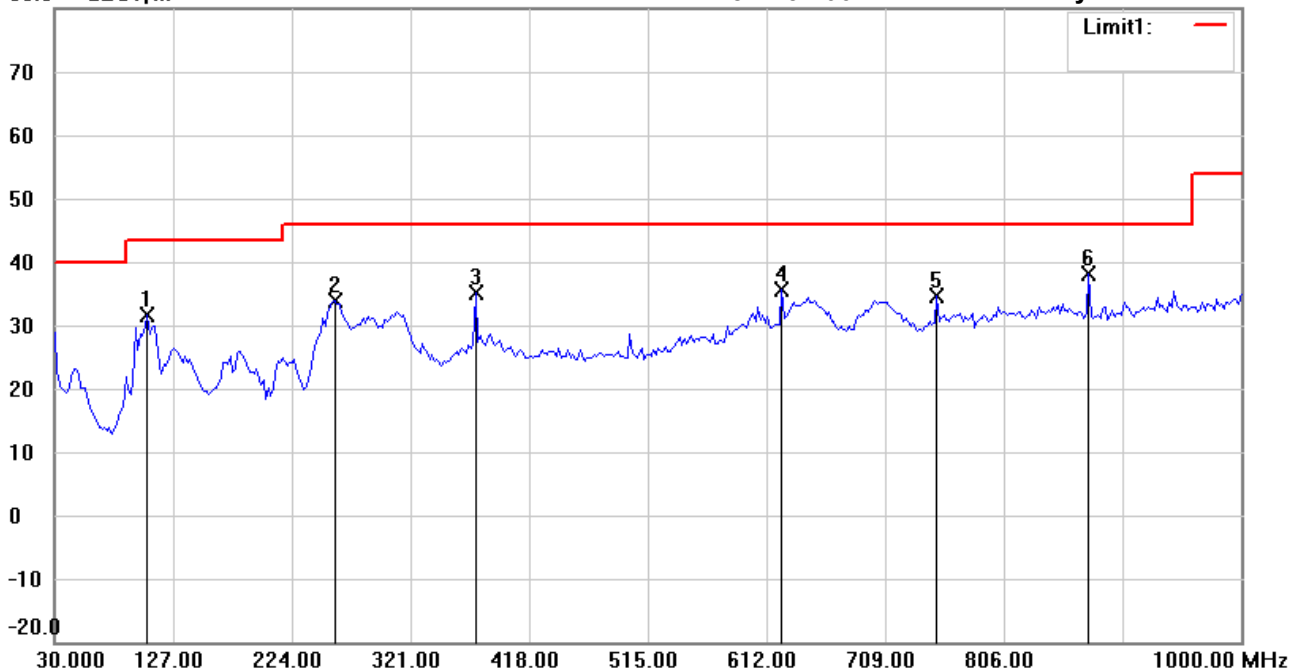
Date: 5/19/2022

Temperature: 25.4 °C

80.0 dBuV/m

Time: 4:54:06 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

EUT : W6M22203-21702

M/N:

Test Mode : TX 13.56MHz

Note :

Polarization: *Horizontal*

Power : POE

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
	105.8116	39.70	peak	-8.04	31.66	43.50	100	226	-11.84	
	259.3788	40.46	peak	-6.69	33.77	46.00	102	90	-12.23	
	374.0681	39.14	peak	-3.99	35.15	46.00	100	143	-10.85	
	624.8297	35.72	peak	-0.13	35.59	46.00	101	277	-10.41	
	751.1824	33.20	peak	1.33	34.53	46.00	100	54	-11.47	
*	875.5912	33.90	peak	4.12	38.02	46.00	100	215	-7.98	

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



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Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

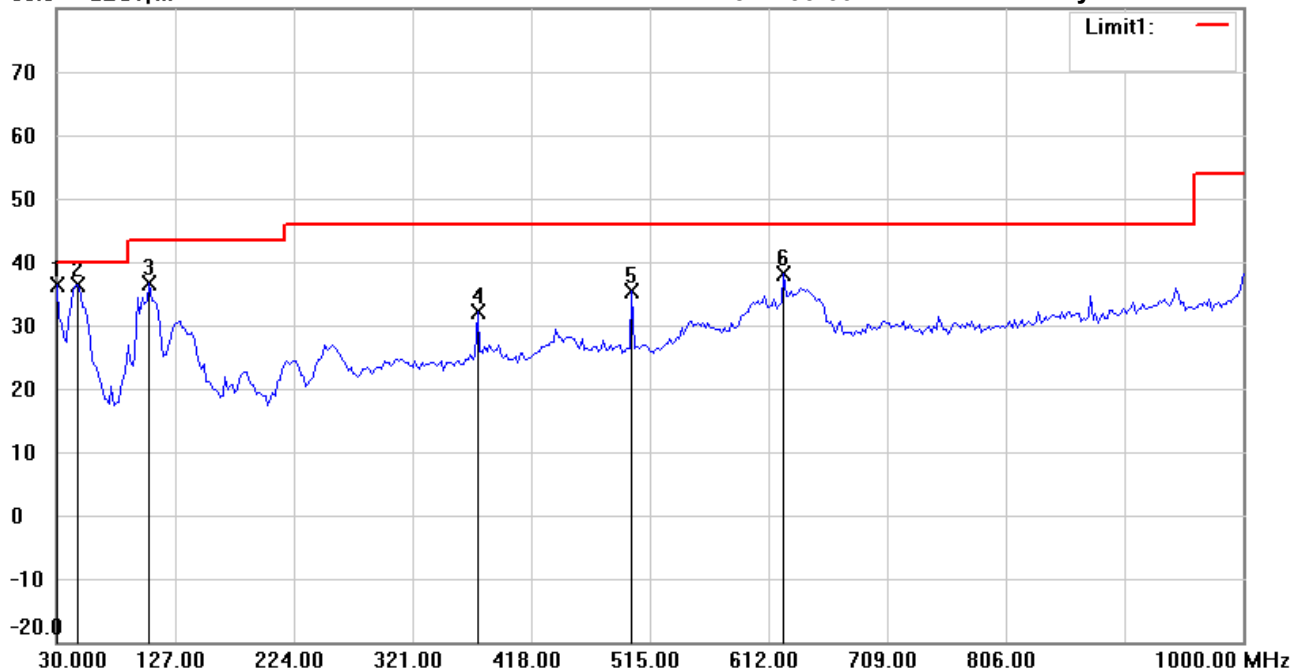
Date: 5/19/2022

Temperature: 25.4 °C

80.0 dBuV/m

Time: 4:55:39 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M22203-21702

Power : POE

M/N:

Distance: 3m

Test Mode : TX 13.56MHz

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
	30.0000	44.17	peak	-7.79	36.38	40.00	100	326	-3.62	
*	47.4950	45.85	peak	-9.46	36.39	40.00	102	90	-3.61	
	105.8116	44.67	peak	-8.04	36.63	43.50	101	244	-6.87	
	374.0681	36.05	peak	-3.99	32.06	46.00	100	173	-13.94	
	500.4208	37.56	peak	-2.30	35.26	46.00	102	228	-10.74	
	624.8297	38.35	peak	-0.13	38.22	46.00	100	162	-7.78	

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



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Radiated Emission Measurement

Operator: Vincent

File :1

Data :#1

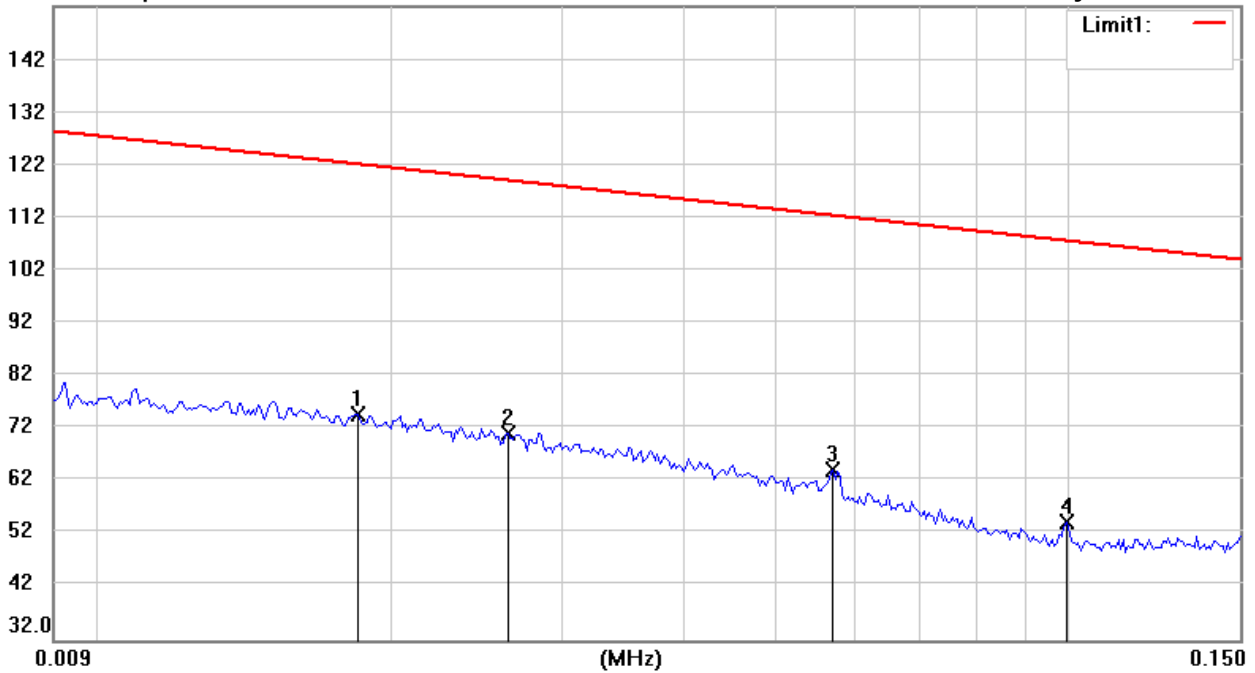
Date: 5/19/2022

Temperature: 25.4 °C

Time: 4:46:12 PM

Humidity: 63.7 %

152.0 dBuV/m



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : RX 13.56MHz

Polarization:

Power : POE

Distance: 3m

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
*	0.0185	-5.81	peak	80.70	74.89	122.25	100	244	-47.36	
	0.0264	-6.41	peak	77.69	71.28	119.17	100	143	-47.89	
	0.0572	-6.41	peak	70.75	64.34	112.45	100	66	-48.11	
	0.0994	-10.51	peak	65.00	54.49	107.65	100	287	-53.16	

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



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Radiated Emission Measurement

Operator: Vincent

File :2

Data :#1

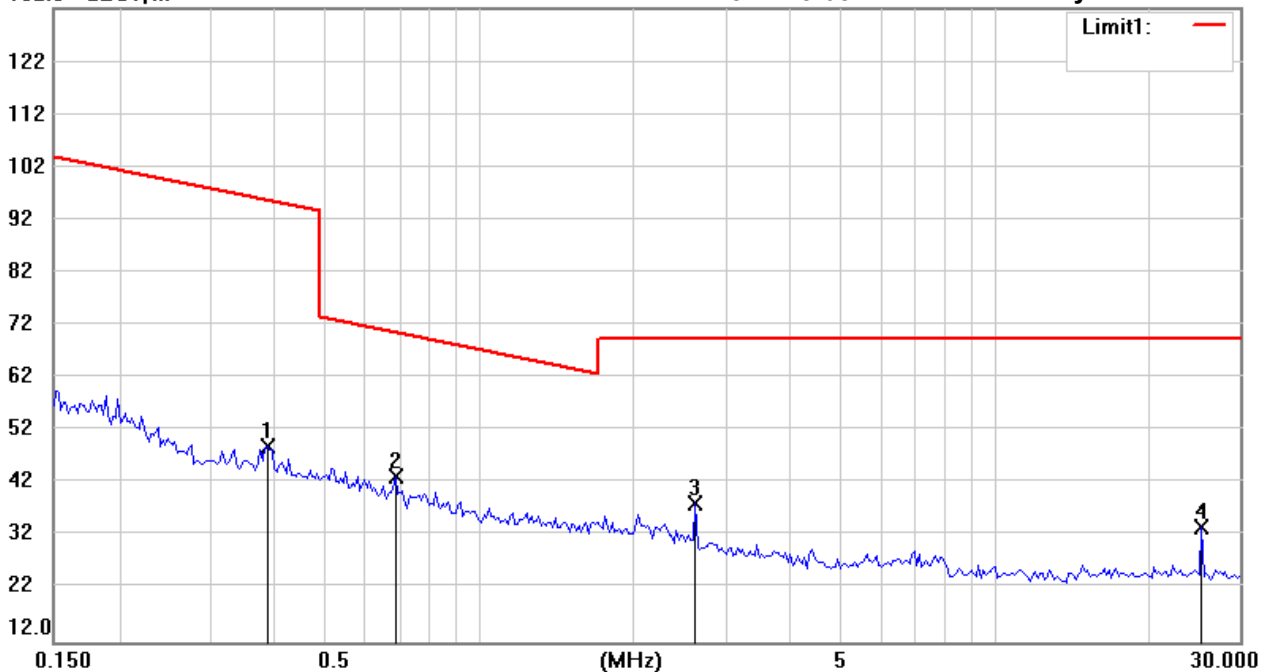
Date: 5/19/2022

Temperature:25.4 °C

132.0 dBuV/m

Time: 4:48:08 PM

Humidity:63.7 %



Site : Chamber

Condition : FCC 15.225 RE (3m)(13.56MHz)

EUT : W6M22203-21702

M/N:

Test Mode : RX 13.56MHz

Polarization:

Power : POE

Distance: 3m

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
	0.3900	-5.07	peak	54.17	49.10	95.78	100	110	-46.68	
*	0.6920	-6.51	peak	49.76	43.25	70.80	100	62	-27.55	
	2.6371	-1.44	peak	39.71	38.27	69.54	100	134	-31.27	
	25.3128	0.86	peak	32.77	33.63	69.54	100	194	-35.91	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#1

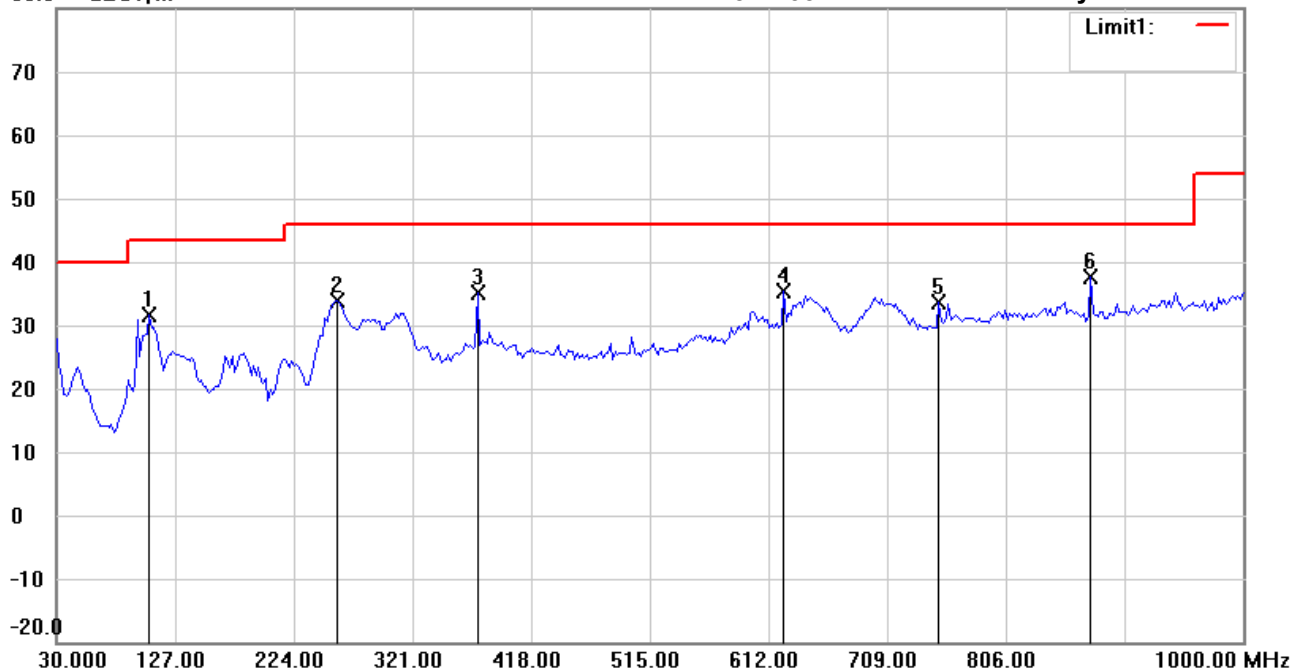
Date: 5/19/2022

Temperature: 25.4 °C

80.0 dBuV/m

Time: 4:58:24 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

EUT : W6M22203-21702

M/N:

Test Mode : RX 13.56MHz

Note :

Polarization: *Horizontal*

Power : POE

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
	105.8115	39.79	peak	-8.04	31.75	43.50	100	62	-11.75	
	259.3788	40.67	peak	-6.69	33.98	46.00	100	149	-12.02	
	374.0681	39.15	peak	-3.99	35.16	46.00	102	30	-10.84	
	624.8297	35.54	peak	-0.13	35.41	46.00	100	225	-10.59	
	751.1824	32.21	peak	1.33	33.54	46.00	101	187	-12.46	
*	875.5911	33.56	peak	4.12	37.68	46.00	100	264	-8.32	

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



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Radiated Emission Measurement

Operator: Vincent

File :3

Data :#2

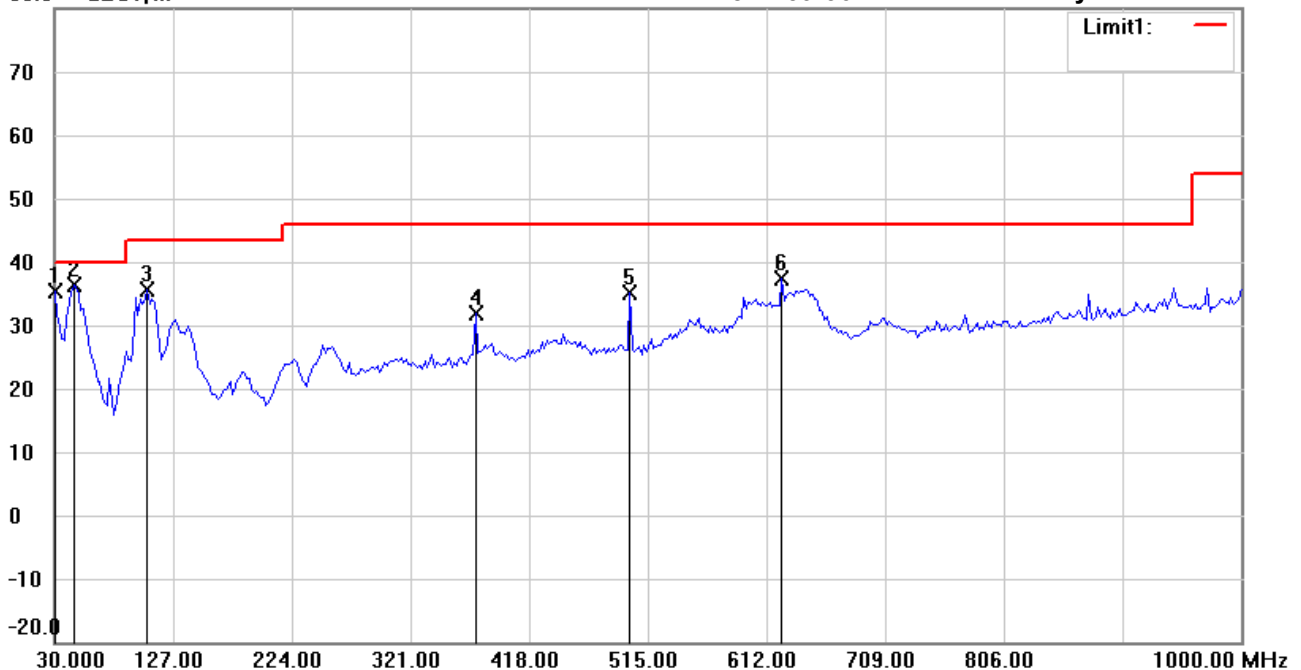
Date: 5/19/2022

Temperature: 25.4 °C

80.0 dBuV/m

Time: 4:59:36 PM

Humidity: 63.7 %



Site : Chamber

Condition : FCC_part 15 RE-Class B_30-1000MHz

Polarization: *Vertical*

EUT : W6M22203-21702

Power : POE

M/N:

Distance: 3m

Test Mode : RX 13.56MHz

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
	30.0000	43.17	peak	-7.79	35.38	40.00	100	326	-4.62	
*	45.5511	45.59	peak	-9.30	36.29	40.00	102	90	-3.71	
	105.8116	43.66	peak	-8.04	35.62	43.50	101	66	-7.88	
	374.0681	35.92	peak	-3.99	31.93	46.00	100	214	-14.07	
	500.4208	37.48	peak	-2.30	35.18	46.00	100	275	-10.82	
	624.8297	37.61	peak	-0.13	37.48	46.00	101	143	-8.52	

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