

47 CFR PART 18 TEST REPORT

for

920MHz WPT device

Model No.: PTXMP

FCC ID: 2A82S-13EA2A82S

Of

Applicant: **Aeterlink Corp.**

Address: **Ohtemachi Building 6F #671 1-6-1 Ohtemachi
Chiyoda-ku 1000004 Japan**

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.: W6M22212-22340-P-18

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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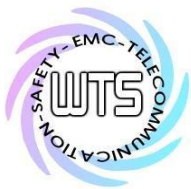


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1 General Information

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 tests were carried out and passed in accordance to the standards:

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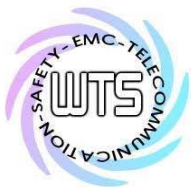
The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

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

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 1.6.
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.



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1.2 Tester

September 28, 2023

Ken Kang

Ken Kang

Date

WTS-Lab.

Test Engineer

Signature

Technical responsibility for area of testing:

September 28, 2023

Kevin Wang

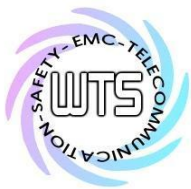
Kevin Wang

Date

WTS

Name

Signature



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1.3 Testing laboratory

1.3.1 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

1.3.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1477, TW1072

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

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.



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1.4 Details of applicant

Name:	Aeterlink Corp.
Street:	Ohtemachi Building 6F #671 1-6-1 Ohtemachi
Town:	Chiyoda-ku 1000004
Country:	Japan

1.5 Application details

Date of receipt of test item:	May 12, 2023
Date of test:	from May 15, 2023 to July 06, 2023

1.6 Test item

1.6.1 Description of test item

Type of product:	920MHz WPT device
Type identification:	PTXMP
Brand name:	AirPlug™
Multi-listing model number:	./.
Sample no.:	#01



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1.6.2 Manufacturer (if different from applicant in point 1.4)

Name: (K) LIMNO
Street: 7-101 Tachikawa-cho,
Town: Tottori-shi, Tottori Pref. 680-8634,
Country: Japan

1.6.3 Kind of application

ISM frequency	Tolerance	Used (X)
6.78 MHz	± 15.0 kHz	
13.56 MHz	± 7.0 kHz	
27.12 MHz	± 163.0 kHz	
40.68 MHz	± 20.0 kHz	
915.00 MHz	± 13.0 MHz	
2.450 MHz	± 50.0 MHz	
5.800 MHz	± 75.0 MHz	
24.125 MHz	± 125.0 MHz	
61.25 GHz	± 250.0 MHz	
122.50 GHz	± 500.0 MHz	
2450.00 GHz	± 1.0 GHz	
(Other)		X

1.7 Test standards

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1.8 Test configuration

The EUT was connected to LISN by adapter and charged for peripheral device by wireless until the test finished.

Special statement:

The usage distance of product is above 1m.



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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: 860 ... 1030 hPa

Details of power supply: Adaptor (I/P: 100-240V~50/60Hz 0.6A
O/P: 24V=1000mA)

Other parameters: without

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : AMN : 0.94 dB Voltage probe : 0.96 dB Include Pulse Limiter : 1.52 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty : 0.009-30 MHz : 1.92 dB 30-1000 MHz : 3.96 dB 1-18 GHz : 2.46 dB 18-40 GHz : 2.44 dB

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



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2.3 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	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 004	ZWEILEITER-V- NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2022/10/24	2023/10/23
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2022/10/24	2023/10/23
ETSTW-CE 008	HF-EICHLERUNG 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	2022/8/3	2023/8/2
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2022/11/9	2023/11/8
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2022/7/29	2023/7/28
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2023/6/12	2024/6/11
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2022/10/17	2023/10/16
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	2022/8/18	2023/8/17
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2023/5/18	2024/5/17
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2023/6/19	2024/6/18
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2023/5/5	2024/5/4
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2023/3/2	2024/3/1
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2023/6/19	2024/6/18
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2022/8/1	2023/7/31
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2023/3/22	2024/3/21
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2023/2/17	2024/2/16
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2023/2/20	2024/2/19
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	2022/11/5	2023/11/4
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2022/9/16	2023/9/15
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2023/5/25	2024/5/24
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2023/2/17	2024/2/16



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ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2023/1/4	2024/1/3
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	2022/11/8	2023/11/7
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2023/6/19	2024/6/18
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2022/8/5	2023/8/4
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2022/8/5	2023/8/4
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2023/2/17	2024/2/16
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2022/8/5	2023/8/4
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2022/8/5	2023/8/4
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2023/2/20	2024/2/19
ETSTW-RE 146	Preamplifier	JPA-10M1G	15090004	JPT	2023/5/26	2024/5/25
ETSTW-RE 152	Bi-log Hybrid Antenna	MCTD 2786B	BLB20J04029	ETC	2023/3/21	2024/3/20
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2022/10/3	2023/10/2
ETSTW-RE 159	Bi-log Hybrid Antenna (30M~1000 MHz)	MCTD 2786B	BLB21N04035	ETC	2022/12/22	2023/12/21
ETSTW-RE 177	Bi-log Hybrid Antenna with 6dB Attenuator	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2022/9/1	2023/8/31
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2023/6/19	2024/6/18
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2023/5/28	2024/5/27
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2023/3/22	2024/3/21
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2023/5/10	2024/5/9
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2022/10/24	2023/10/23
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2023/1/4	2024/1/3
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2023/1/4	2024/1/3
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2023/1/4	2024/1/3
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2023/1/4	2024/1/3
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2022/9/2	2023/9/1
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2023/4/24	2024/4/23
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2022/8/5	2023/8/4
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2023/6/19	2024/6/18
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2023/4/27	2024/4/26
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2022/9/16	2023/9/15



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ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2022/9/16	2023/9/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2023/02/17	2024/2/16
ETSTW-Cable 045	Microwave Cable	SUCOFLEX 104	325536	HUBER+SUHNER	2022/10/21	2023/10/20
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2023/5/26	2024/5/25
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2022/10/21	2023/10/20
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 076	SMA type cable (1m)	N/A	812652/4	HUBER+SUHNER	2023/2/20	2024/2/19
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	2022/9/16	2023/9/15
ETSTW-TH 003	Wireless weather station	GAIA	N/A	TFA	2022/10/28	2023/10/27



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2.4 Test results

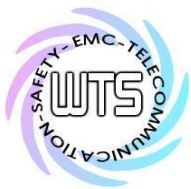
☒ 1st test

☐ test after modification

☐ production test

Test Emission /Immunity			Done	Test passed	Test failed
Emission	Conducted Emission	47 CFR FCC part 18.307	☒	☒	☐
Emission	Radiated Emission	47 CFR FCC part 18.305	☒	☒	☐

(The following is intentionally left blank.)



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2.4.1 Conducted Emission

2.4.1.1 Test Equipment

a) EMI TEST RECEIVER (ESHS10)

For your reference please find it in our test equipment list at page 8 to 10 as number: ETSTW-CE 001

b) TWO-LINE V-NETWORK (ENV216)

For your reference please find it in our test equipment list at page 8 to 10 as number: ETSTW-CE 016

c) ESA-E SERIES SPECTRUM ANALYZER (E4404B)

For your reference please find it in our test equipment list at page 8 to 10 as number: ETSTW-RE 045

- Test configuration

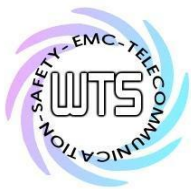
The test configuration is contained inside of a shielded chamber and corresponds to the FCC Measurement Procedure MP5 "Methods of Measurement of Radio Noise Emission from Industrial, Scientific and Medical Equipment. The equipment under test is placed in the facility on a wooden table 0.8m height. The equipment under test is connected with the artificial mains network (AMN) in a distance of 0.8m and also 0.8m from other subassembly and metallic area. The measurement receiver is placed in a special room adjacent to the chamber.

- Test parameters and marginal conditions

The tests are carried out with nominal impedance by 50Ω/ 50 uH of the AMN in a frequency range 150 kHz to 30 MHz. Using a "50Ω/50uH" AMN the frequency range 0.01-30MHz is observed.

Further information please find in test report.

The equipment under test fulfils the requirement in accordance with the criteria of the standard.



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2.4.2 Radiated Emission

2.4.2.1 Test Equipment

a) EMI TEST RECEIVER (ESI 40)

For your reference please find it in our test equipment list at page 8 to 10 as number : ETSTW-RE 004

b) Amplifier Module (CHC 2)

For your reference please find it in our test equipment list at page 8 to 10 as number : ETSTW-RE 062

c) Amplifier (8447D)

For your reference please find it in our test equipment list at page 8 to 10 as number : ETSTW-RE 142

d) Bi-log Hybrid Antenna (MCTD 2786B)

For your reference please find it in our test equipment list at page 8 to 10 as number : ETSTW-RE 152

e) Double-Ridged Guide Horn Antenna (3117)

For your reference please find it in our test equipment list at page 8 to 10 as number : ETSTW-RE 030

2.4.2.2 Test Procedures

- Test configuration

The test configuration corresponds to the standard FCC Measurement Procedure MP5 “Methods of Measurement of Radio Noise Emission from Industrial, Scientific and Medical Equipment. The equipment under test is placed on a non metallic table with 0.8m height. The power supply and the RF connection points are close to the equipment under test at the floor inside a connection box. The cables to this connection box are shielded and below the double floor. The receiving antenna is placed in a height at 1.0 to 4.0m, in a distance of 3m. The measurement receiver is placed in a special room.

- Test parameters and marginal conditions

The tests are carried out in a frequency range according § 18.309. Further information please find in the test protocol.

The equipment under test fulfils the requirement in accordance with the criteria of the standard.



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2.4.3 Operating frequencies

Test condition	Frequency	Limit	Done	Test passed	Test failed
No-load warm-up	--	--	--	--	--
Load 1	--	--	--	--	--
Load 2	--	--	--	--	--

Explanation: This test item is not applicable to this EUT.

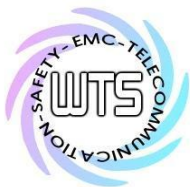
2.4.4 Power measurement

Power measurement is to perform for several kind of applications with RF-power > 500W in order to determine power depended limits for spurious emission measurement.

The procedure shall follow FCC OET MP-5.

RF Power [W]	--
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Explanation: The RF power is less than 500W, so this test is not required.



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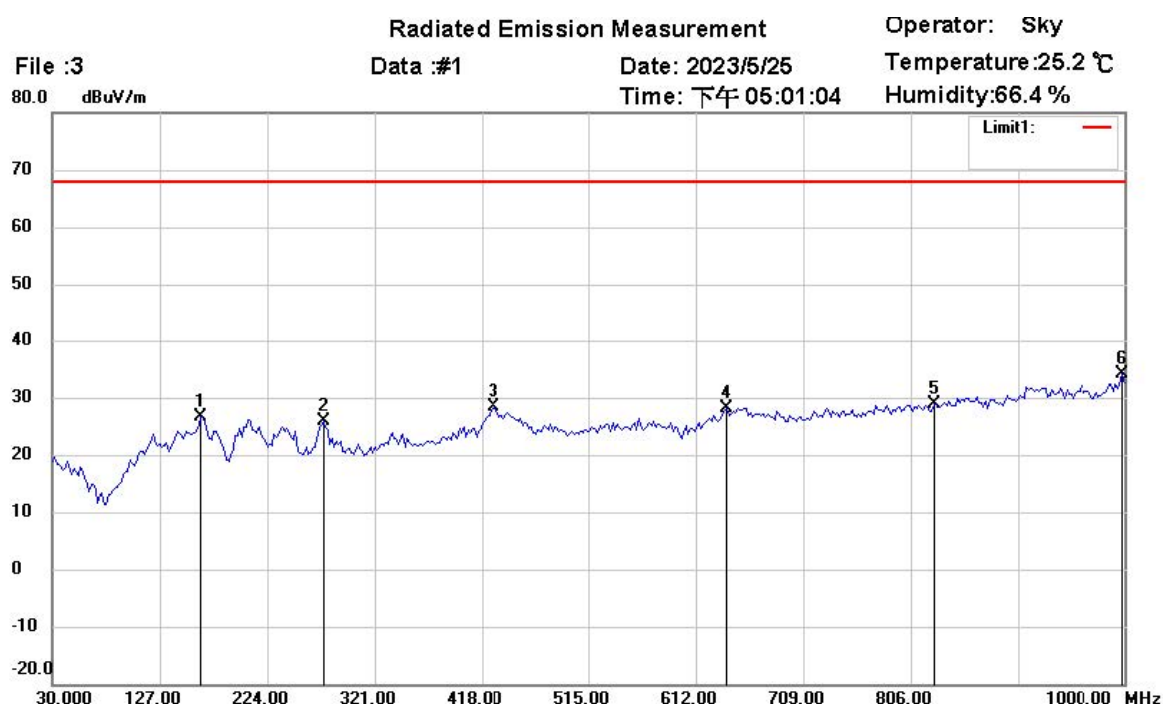
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2.5 Test protocols

2.5.1 Radiated Emission

Radio Noise Field Strength

Emission



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

Power : 120 V.a.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
	164.1282	36.30	peak	-9.78	26.52	67.96	121	104	-41.44	
	274.9297	32.40	peak	-6.44	25.96	67.96	103	7	-42.00	
	428.4970	31.66	peak	-3.29	28.37	67.96	104	300	-39.59	
	640.3808	27.76	peak	0.29	28.05	67.96	106	66	-39.91	
	826.9940	26.76	peak	2.10	28.86	67.96	129	5	-39.10	
*	998.0561	27.87	peak	6.19	34.06	67.96	110	82	-33.90	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

Radiated Emission Measurement

Operator: Sky

File :3

Data :#2

Date: 2023/5/25

Temperature:25.2 °C

80.0 dBuV/m

Time: 下午 05:01:55

Humidity:66.4 %



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

Note :

Polarization: **Vertical**

Power : 120 V.a.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
*	154.4088	42.27	peak	-8.25	34.02	67.96	102	69	-33.94	
	204.9500	44.31	peak	-10.86	33.45	67.96	113	159	-34.51	
	391.5631	28.98	peak	-3.93	25.05	67.96	106	107	-42.91	
	537.3547	28.70	peak	-2.07	26.63	67.96	124	55	-41.33	
	722.0240	27.75	peak	0.16	27.91	67.96	106	5	-40.05	
	867.8156	27.18	peak	3.06	30.24	67.96	109	82	-37.72	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

Radiated Emission Measurement

Operator: Sky

File :4

Data :#1

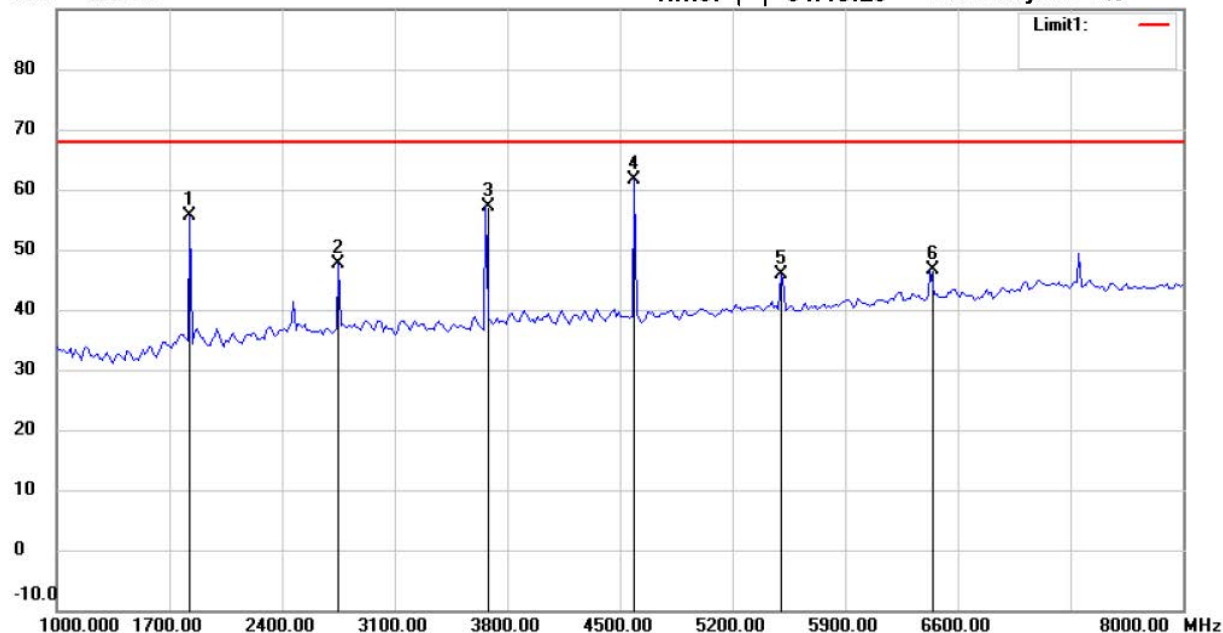
Date: 2023/5/25

Temperature:25.2 °C

90.0 dBuV/m

Time: 下午 04:15:20

Humidity:66.4 %



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

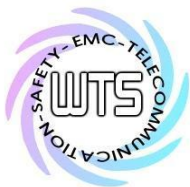
Note :

Polarization: *Horizontal*

Power : 120 V.a.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
	1827.655	62.24	peak	-6.72	55.52	67.96	102	25	-12.44	
	2753.507	52.22	peak	-4.66	47.56	67.96	109	255	-20.40	
	3665.331	59.53	peak	-2.47	57.06	67.96	110	9	-10.90	
*	4591.182	63.68	peak	-2.10	61.58	67.96	100	240	-6.38	
	5503.006	45.29	peak	0.48	45.77	67.96	124	159	-22.19	
	6428.858	44.17	peak	2.42	46.59	67.96	103	300	-21.37	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

Radiated Emission Measurement

Operator: Sky

File :4

Data :#5

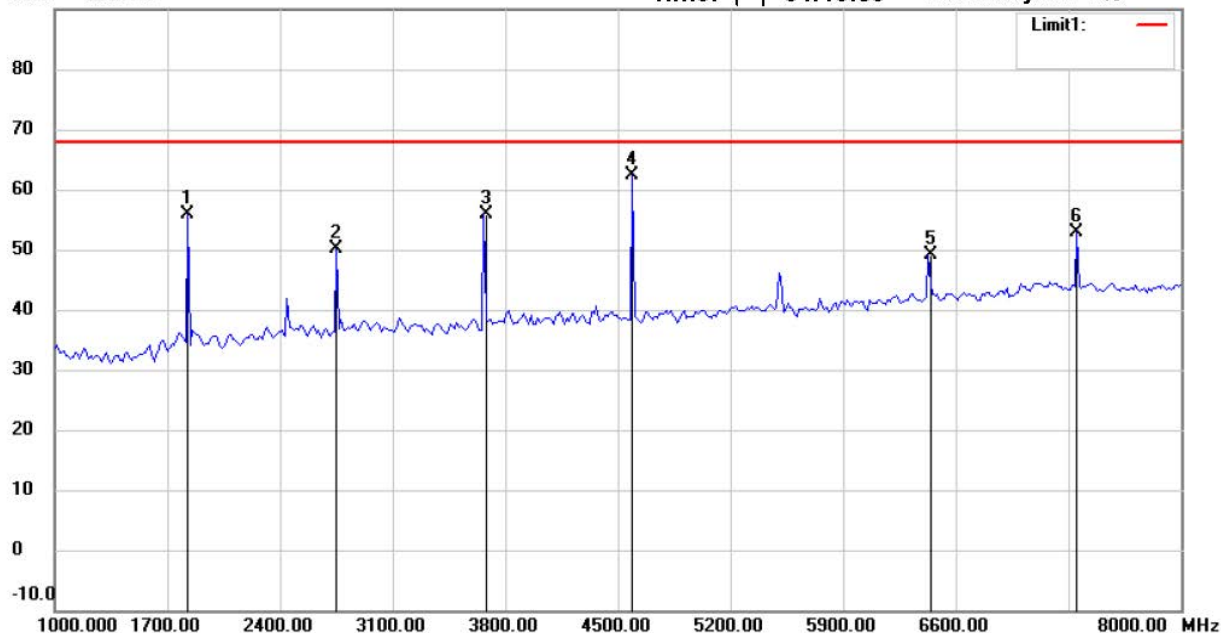
Date: 2023/5/25

Temperature:25.2 °C

90.0 dBuV/m

Time: 下午 04:16:30

Humidity:66.4 %



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

Note :

Polarization: **Vertical**

Power : 120 V.a.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
	1827.655	62.59	peak	-6.72	55.87	67.96	107	29	-12.09	
	2753.507	54.71	peak	-4.66	50.05	67.96	103	228	-17.91	
	3665.331	58.42	peak	-2.47	55.95	67.96	116	47	-12.01	
*	4591.182	64.52	peak	-2.10	62.42	67.96	160	220	-5.54	
	6428.858	46.72	peak	2.42	49.14	67.96	112	52	-18.82	
	7354.709	49.00	peak	3.96	52.96	67.96	127	92	-15.00	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

Radiated Emission Measurement

Operator: Sky

File :4

Data :#2

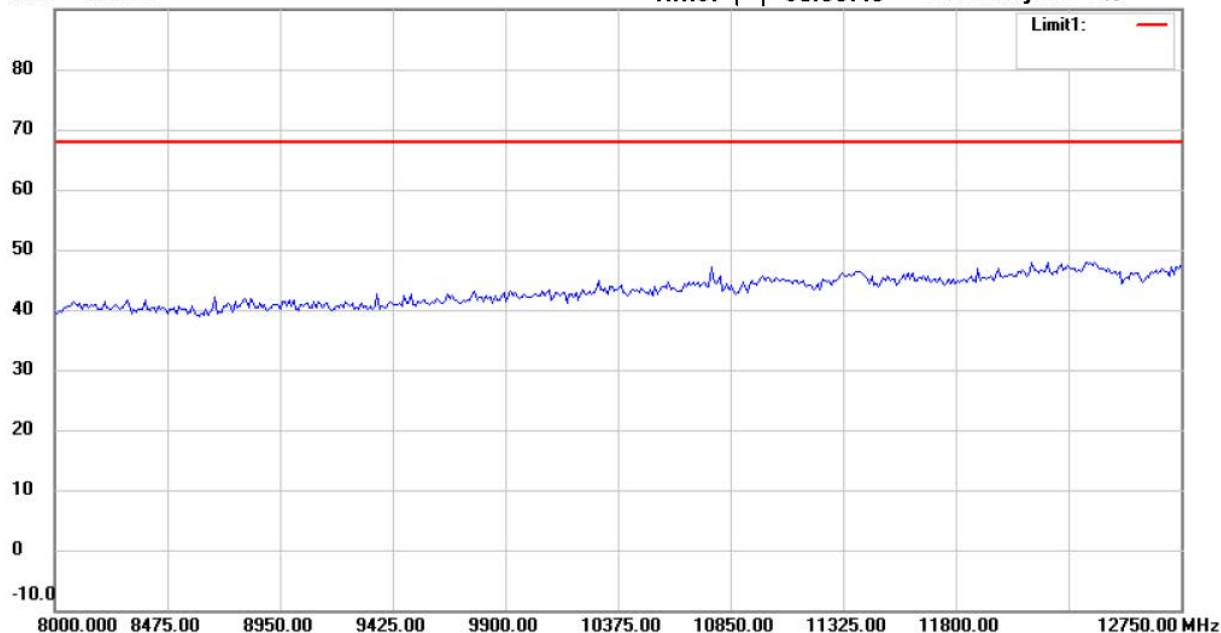
Date: 2023/5/25

Temperature:25.2 °C

90.0 dBuV/m

Time: 下午 08:39:45

Humidity:66.4 %



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

Note :

Polarization: *Horizontal*

Power : 120 V.a.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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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

Radiated Emission Measurement

Operator: Sky

File :4

Data :#6

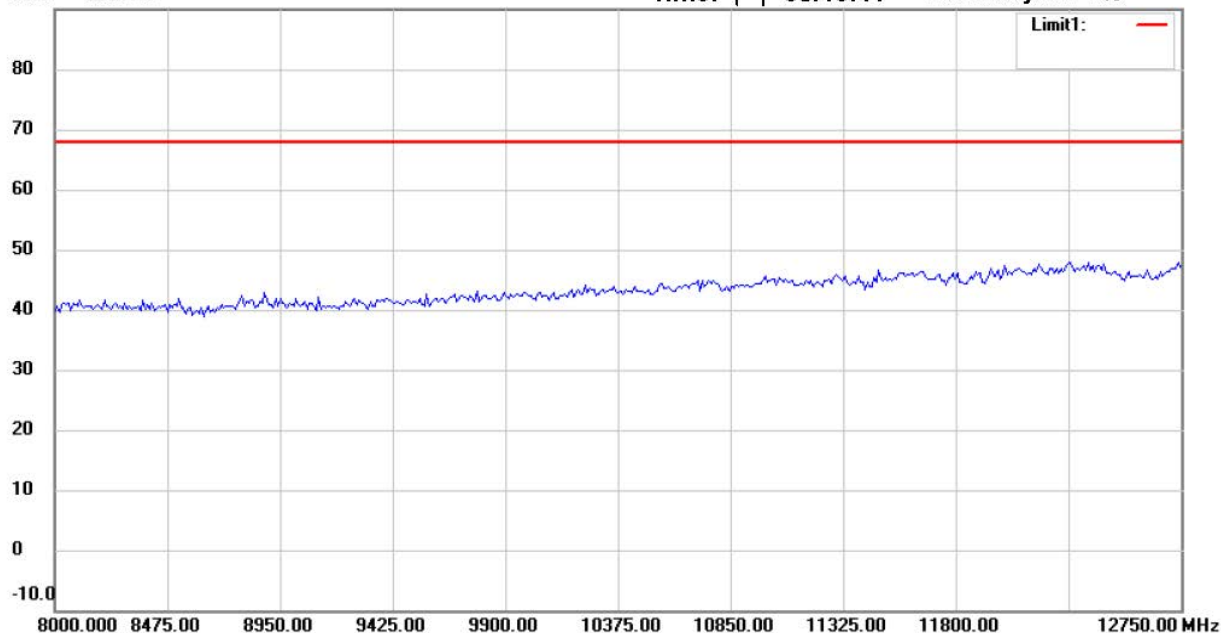
Date: 2023/5/25

Temperature:25.2 °C

90.0 dBuV/m

Time: 下午 08:40:44

Humidity:66.4 %



Site : 966 Chamber

Condition : FCC_Part 18 RE (ISM)

EUT : W6M22212-22340

M/N:

Test Mode :

Note :

Polarization: **Vertical**

Power : 120 V.a.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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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.

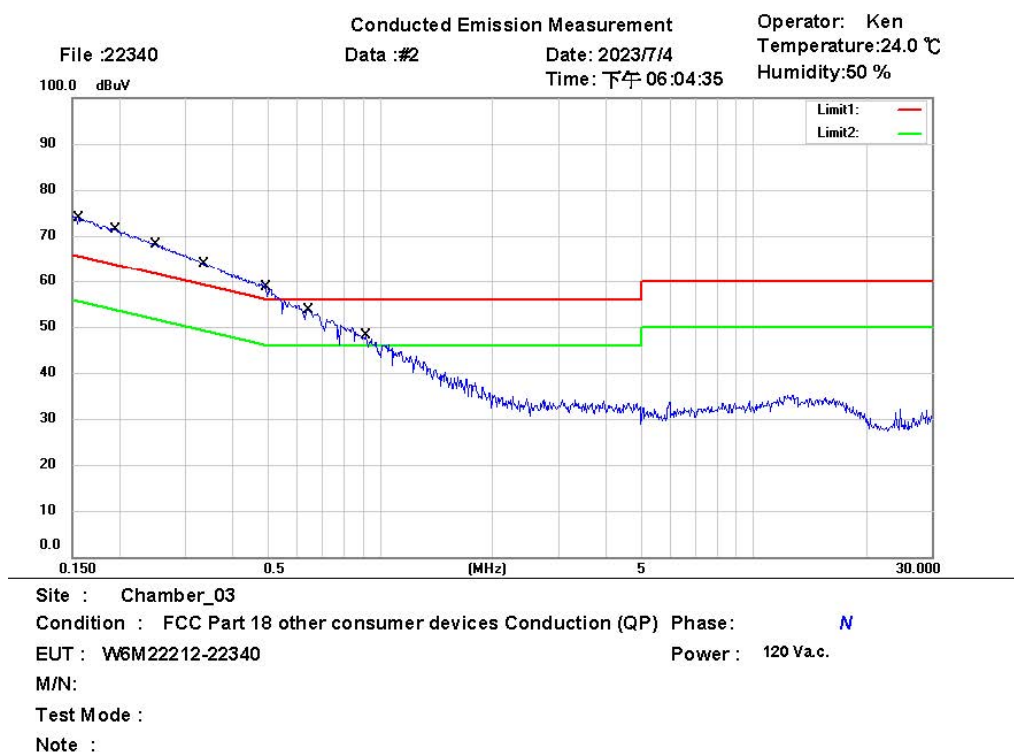


Registration number: W6M22212-22340-P-18
FCC ID: 2A82S-13EA2A82S

2.5.2 Radiated Emission

Conducted Emission

Emission



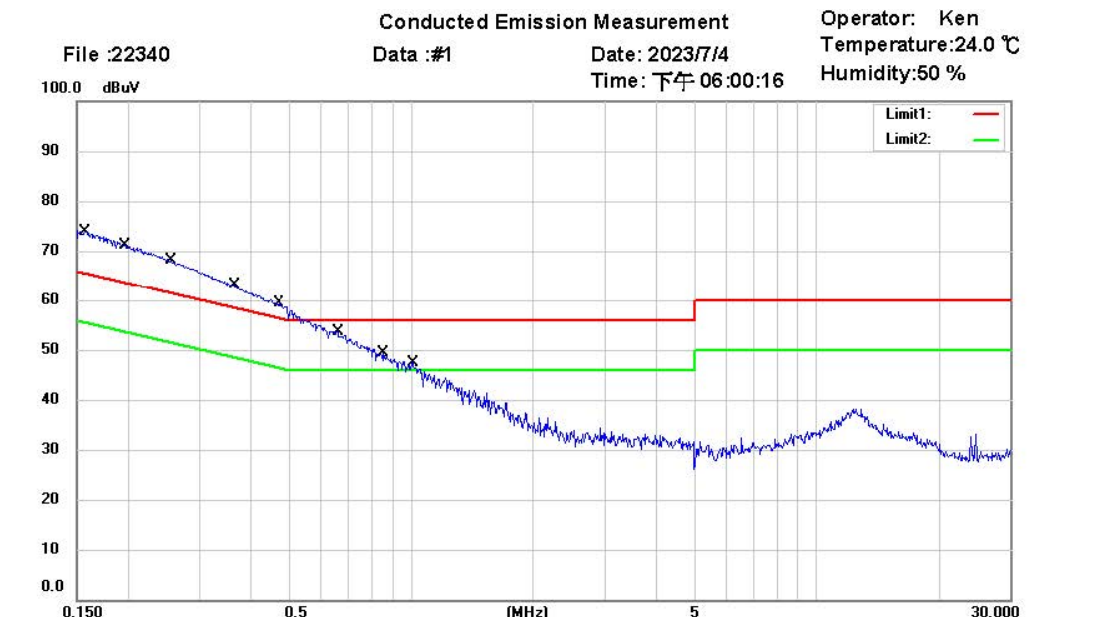
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.1551	53.36	QP	9.59	62.95	65.72	-2.77	
	0.1551	28.71	AVG	9.59	38.30	55.72	-17.42	
	0.1960	51.18	QP	9.59	60.77	63.78	-3.01	
	0.1960	23.38	AVG	9.59	32.97	53.78	-20.81	
	0.2524	47.94	QP	9.60	57.54	61.68	-4.14	
	0.2524	20.15	AVG	9.60	29.75	51.68	-21.93	
	0.3383	43.91	QP	9.62	53.53	59.24	-5.71	
	0.3383	17.58	AVG	9.62	27.20	49.24	-22.04	
	0.4970	38.18	QP	9.64	47.82	56.05	-8.23	
	0.4970	23.35	AVG	9.64	32.99	46.05	-13.06	
	0.6485	33.36	QP	9.65	43.01	56.00	-12.99	
	0.6485	10.93	AVG	9.65	20.58	46.00	-25.42	
	0.9163	26.91	QP	9.66	36.57	56.00	-19.43	
	0.9163	7.48	AVG	9.66	17.14	46.00	-28.86	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22212-22340-P-18

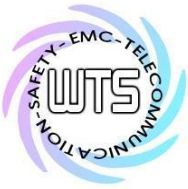
FCC ID: 2A82S-13EA2A82S



Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1584	53.04	QP	9.63	62.67	65.55	-2.88	
	0.1584	28.09	AVG	9.63	37.72	55.55	-17.83	
*	0.1962	51.28	QP	9.63	60.91	63.77	-2.86	
	0.1962	23.99	AVG	9.63	33.62	53.77	-20.15	
	0.2556	47.62	QP	9.64	57.26	61.57	-4.31	
	0.2556	20.04	AVG	9.64	29.68	51.57	-21.89	
	0.3656	43.01	QP	9.66	52.67	58.60	-5.93	
	0.3656	15.04	AVG	9.66	24.70	48.60	-23.90	
	0.4688	38.84	QP	9.67	48.51	56.54	-8.03	
	0.4688	14.73	AVG	9.67	24.40	46.54	-22.14	
	0.6597	33.22	QP	9.68	42.90	56.00	-13.10	
	0.6597	7.02	AVG	9.68	16.70	46.00	-29.30	
	0.8555	28.38	QP	9.69	38.07	56.00	-17.93	
	0.8555	4.54	AVG	9.69	14.23	46.00	-31.77	
	1.0063	25.34	QP	9.69	35.03	56.00	-20.97	
	1.0063	4.06	AVG	9.69	13.75	46.00	-32.25	

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.

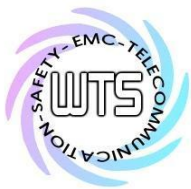


Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

2.6 Equipment Modification

No modification was made to pass all tests.



Registration number: W6M22212-22340-P-18

FCC ID: 2A82S-13EA2A82S

3 Normative references

- /1/ 47 CFR FCC part 18
Radio Frequency Devices
- /2/ FCC MP-5(1986)
FCC Methods of measurement of radio noise emission from Industrial, Scientific and Medical Equipment