

47 CFR FCC PART 15 SUBPART C TEST REPORT

for

Professional 2-Channel Wireless Audio System

Model No.: Stealth Pro

FCC ID: Y4O-TWR3

of

Applicant: inMusic Brands Inc

Address: 200 Scenic View Drive, Cumberland, RI 02864 U.S.A

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

A2LA Accredited No.: 2732.01



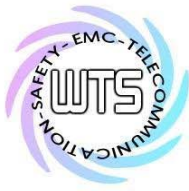
Report No.: W6M21903-18865-C-1-R1

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



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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.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services (Taiwan) Co., Ltd.

Tester:

April 13, 2020

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

April 13, 2020

Kevin Wang

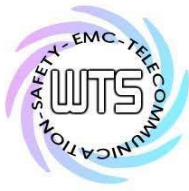
Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

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

FAX:886-2-2791-5046

Company

Worldwide Testing Services(Taiwan) Co., Ltd.

6F, NO. 58, LANE 188, RUEY-KUANG RD.

NEIHU, TAIPEI 114, TAIWAN R.O.C.

Tel : 886-2-66068877

Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. TW1477, TW0020, TW1072

Industry Canada filed test laboratory Reg. No. 20037

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

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

1.3 Details of approval holder

Name: inMusic Brands Inc

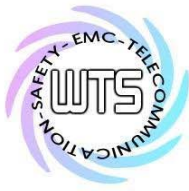
Street: 200 Scenic View Drive,

Town: Cumberland , RI 02864

Country: U.S.A

Telephone: 401.658.3131

Fax: 401.658.3640



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1.4 Application details

Date of receipt of test sample(1st): April 08, 2019

Date of test(1st): from April 09, 2019 to May 16, 2019

Date of receipt of test sample(2nd): March 19, 2020

Date of test(2nd): from March 20, 2020 to April 10, 2020

1.5 General information of Test item

Type of test item: Professional 2-Channel Wireless Audio System

Model Number: Stealth Pro

Brand Name:



Multi-listing model number: Stealth Wireless Pro

Project Code: TWR3

Photos: see Annex

Technical data

Frequency band : 470-608 MHz

Frequency (ch A): 541.025 MHz

Frequency (ch B): 555.025 MHz

Frequency (ch C): 568.975 MHz

Antenna Type: Dipole Antenna

Antenna Gain: 2.08 dBi

Power supply: (1)adaptor_A: I/P: 100~240V~50/60Hz, 0.4A
O/P: 12V, 1.0A (KSAS0121200100VU)
(2)adaptor_B: I/P: 100~240V~50/60Hz, 0.35A
O/P: 12V, 1.0A (HK-AR-120A100-US)

Operation modes: Simplex

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

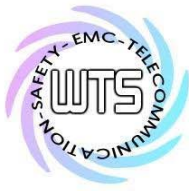
Country: ./.

1.6 Test standards

Technical standard: 47 CFR FCC RULES PART 15 SUBPART C § 15.236 (2019-10)

Special Statement

1. This test report is based on the original report no.: W6M21903-18865-C-1.
2. The relevant Circuitry, PCB Layout, Inner element, Appearance and Function of this model number are exactly the same as the original report no.: W6M21903-18865-C-1. The difference is adding adaptor_B. After estimation, Conducted Emission and Radiated Emission Below 1GHz were tested. Therefore the other test result is also based on the original test report no.: W6M21903-18865-C-1 without re-testing.



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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 as specified were ascertained in the course of the tests performed. ☐

2.2 Test environment

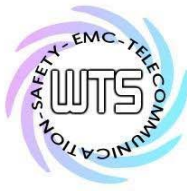
Relative humidity content: 20 ... 75 %

Power supply: (1)adaptor_A: I/P: 100~240V~50/60Hz, 0.4A
O/P: 12V, 1.0A (KSAS0121200100VU)
(2)adaptor_B: I/P: 100~240V~50/60Hz, 0.35A
O/P: 12V, 1.0A (HK-AR-120A100-US)

Air pressure: 86-103 KPa

<i>Test item Name</i>	<i>Uncertainty</i>
<i>Estimation Result of Uncertainty of Conducted Emission</i>	<i>Expanded Uncertainty : AMN : 1.06 dB Voltage probe : 1.12 dB</i>
<i>Estimation Result of Uncertainty of Radiated Emission(3M)</i>	<i>Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 2.79 dB 1-18 GHz : 2.36 dB 18-40 GHz : 1.55 dB</i>
<i>Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth</i>	<i>Expanded Uncertainty : 0.45 kHz</i>
<i>Estimation Result of Uncertainty of Frequency Drift Measurement Frequency stability</i>	<i>Expanded Uncertainty : 6.11 Hz</i>
<i>Estimation Result of Uncertainty of EIRP Measurement</i>	<i>Expanded Uncertainty : 30-200MHz : 2.32 dB 200-1000MHz : 2.32 dB 1-18GHz : 3.24 dB 18-40GHz : 2.88 dB</i>

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



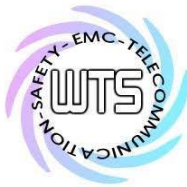
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2.3 Test Equipment List

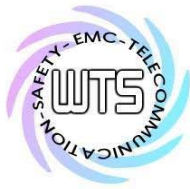
No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2019/6/4	2020/6/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2019/11/1	2020/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2019/9/24	2020/9/23
ETSTW-CE 008	HF-EICHELITUNG 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	2019/7/23	2020/7/22
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2019/10/3	2020/10/2
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2019/7/18	2020/7/17
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2019/6/4	2020/6/3
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2019/5/29	2020/5/28
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	2019/7/25	2020/7/24
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2019/7/22	2020/7/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2020/3/25	2021/3/24
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2020/2/18	2021/2/17
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2019/4/23	2020/4/22
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2019/5/13	2020/5/12
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2020/2/20	2021/2/19
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2020/3/6	2021/3/5
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2020/2/20	2021/2/19
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/5/16	2020/5/15
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	2019/9/23	2020/9/22
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2019/9/18	2020/9/17
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2019/5/9	2020/5/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2020/2/20	2021/2/19
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	2020/1/13	2021/1/12



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ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2019/6/3	2020/6/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2019/8/8	2020/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2020/2/20	2021/2/19
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2019/8/8	2020/8/7
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/5/16	2020/5/15
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2020/3/25	2021/3/34
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2019/5/27	2020/5/26
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2019/5/16	2020/5/15
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2020/3/4	2021/3/3
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2020/3/25	2021/3/24
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2019/10/25	2020/10/24
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2020/1/13	2021/1/12
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2020/1/13	2021/1/12
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2019/9/12	2020/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2020/3/4	2021/3/3
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2019/8/9	2020/8/8
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	2020/2/20	2021/2/19
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2020/2/20	2021/2/19
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2019/7/2	2020/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/14	2020/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2019/9/18	2020/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2020/2/20	2021/2/19
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2019/6/6	2020/6/5
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2019/9/24	2020/9/23

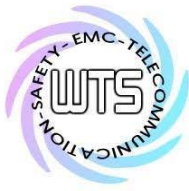


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ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2019/6/6	2020/6/5
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2019/5/16	2020/5/15
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2019/5/16	2020/5/15
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
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 001	Thermohygrometer	608-H1	45204316	Testo	2019/9/9	2020/9/8
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2019/9/9	2020/9/8



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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 50 μ H 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 100 kHz 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. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

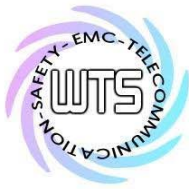
- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, 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.

Measurements were made by at the registered open field test site located at The Registration Number:

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

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



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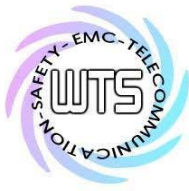
Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
RF Power Output	§15.236(d)	☒	☒	☐
Occupied Bandwidth	§15.236(f)	☒	☒	☐
Emission Mask	§15.236(g) ETSI EN 300 422-1 v1.4.2	☒	☒	☐
Radiated Spurious Emission	§15.236(g)	☒	☒	☐
Line Conducted Emissions	15.207	☒	☒	☐
Frequency Stability vs. Temperature Frequency Stability vs. Voltage	§15.236(f)(3)	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M21903-18865-C-1-R1

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4 RF Power Output, FCC15.236 (d)

4.1 Test procedure

§ 2.1046 Measurements required: RF power output.

(a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

(b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as follows. In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.

(1) Single sideband transmitters in the A3A or A3J emission modes - by two tones at frequencies of 400 Hz and 1800 Hz (for 3.0 kHz authorized bandwidth), or 500 Hz and 2100 Hz (3.5 kHz authorized bandwidth), or 500 Hz and 2400 Hz (for 4.0 kHz authorized bandwidth), applied simultaneously, the input levels of the tones so adjusted that the two principal frequency components of the radio frequency signal produced are equal in magnitude.

(2) Single sideband transmitters in the A3H emission mode - by one tone at a frequency of 1500 Hz (for 3.0 kHz authorized bandwidth), or 1700 Hz (for 3.5 kHz authorized bandwidth), or 1900 Hz (for 4.0 kHz authorized bandwidth), the level of which is adjusted to produce a radio frequency signal component equal in magnitude to the magnitude of the carrier in this mode.

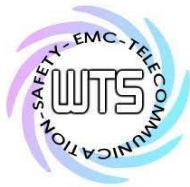
(3) As an alternative to paragraphs (b) (1) and (2) of this section other tones besides those specified may be used as modulating frequencies, upon a sufficient showing of need. However, any tones so chosen must not be harmonically related, the third and fifth order intermodulation products which occur must fall within the -25 dB step of the emission bandwidth limitation curve, the seventh and ninth order intermodulation product must fall within the 35 dB step of the referenced curve and the eleventh and all higher order products must fall beyond the -35 dB step of the referenced curve.

(4) Independent sideband transmitters having two channels by 1700 Hz tones applied simultaneously in both channels, the input levels of the tones so adjusted that the two principal frequency components of the radio frequency signal produced are equal in magnitude.

(5) Independent sideband transmitters having more than two channels by an appropriate signal or signals applied to all channels simultaneously. The input signal or signals shall simulate the input signals specified by the manufacturer for normal operation.

(6) Single-channel controlled-carrier transmitters in the A3 emission mode - by a 2500 Hz tone.

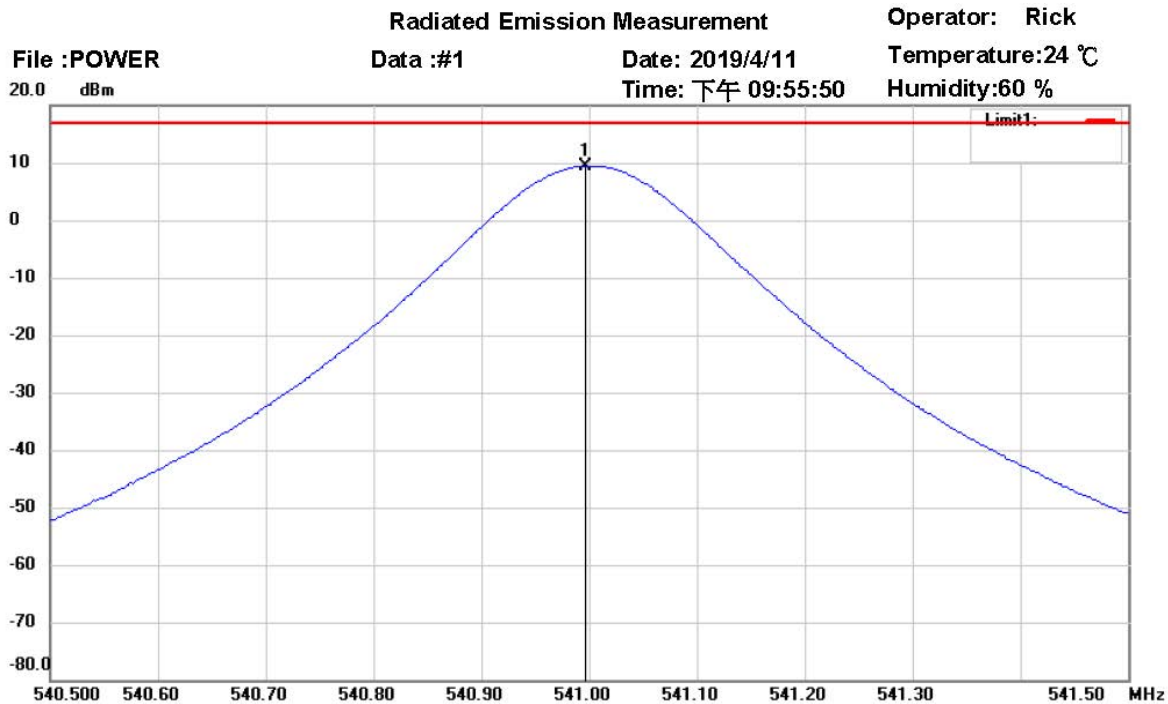
(c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.



Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

4.2 Test Results



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

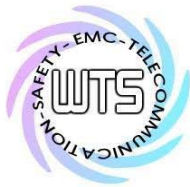
Note :

Polarization: *Horizontal*

Power : 120V a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	540.9970	-22.29	peak	31.74	9.45	17.00	150	220	-7.55	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#2

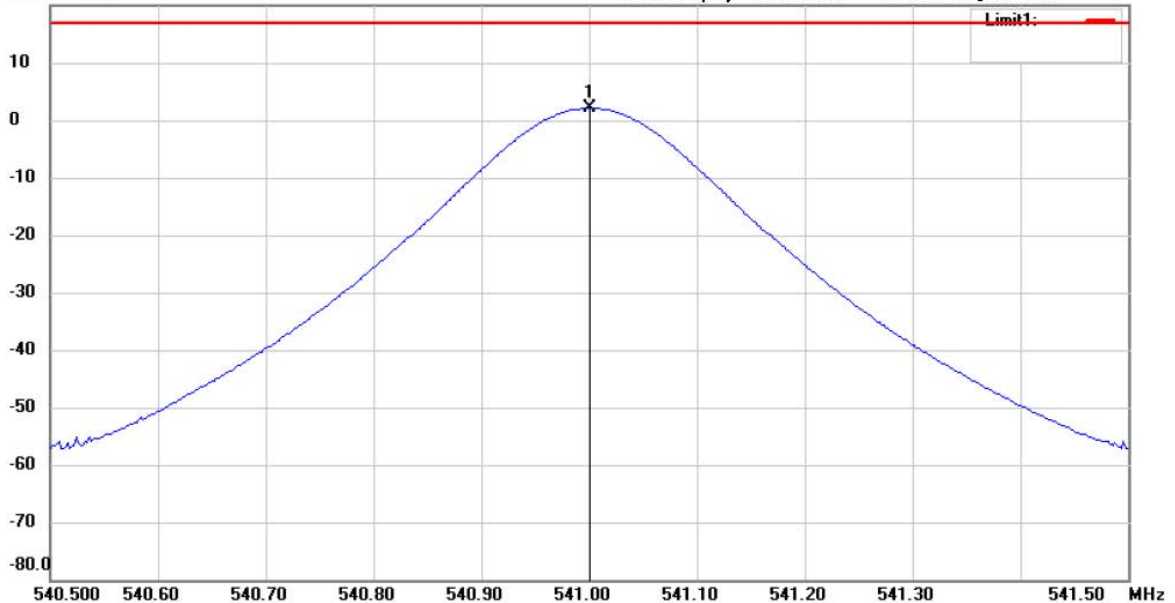
Date: 2019/4/11

Temperature:24 °C

20.0 dBm

Time: 下午 09:56:45

Humidity:60 %



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

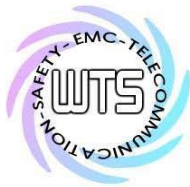
Note :

Polarization: *Vertical*

Power : 120Va.c.

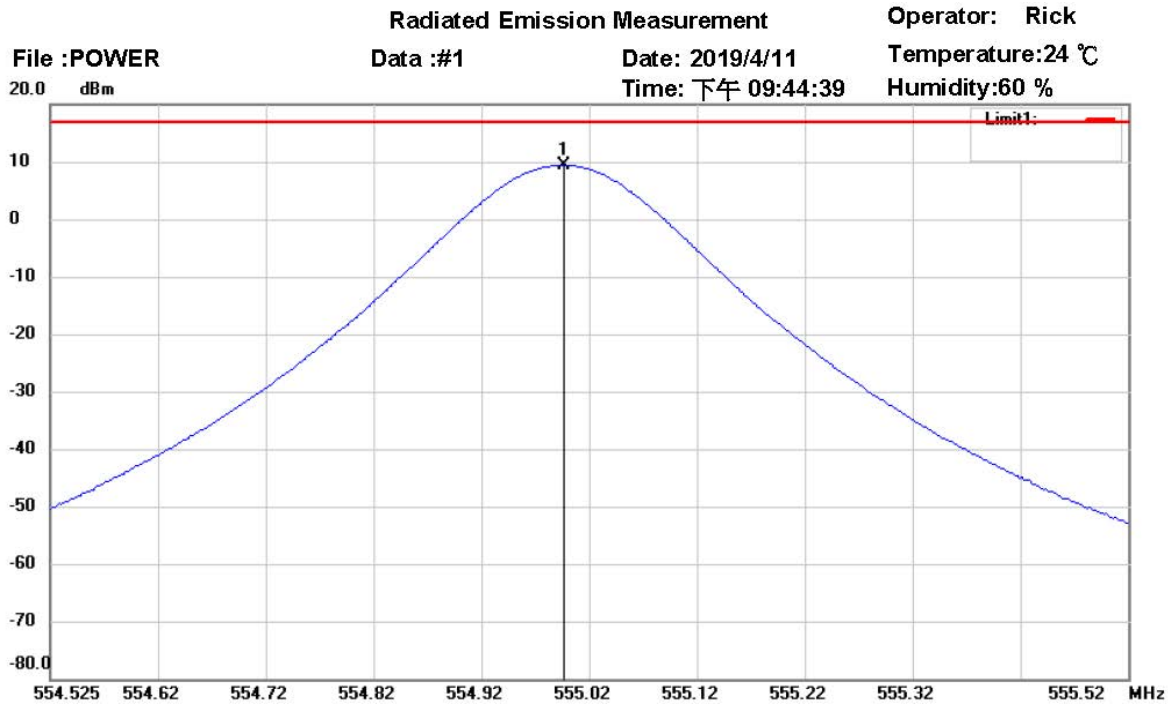
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	541.0010	-28.36	peak	30.49	2.13	17.00	150	210	-14.87	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

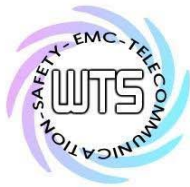
Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	555.0000	-22.68	peak	32.06	9.38	17.00	150	150	-7.62	



Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Radiated Emission Measurement

Operator: Rick

File :POWER

Data :#2

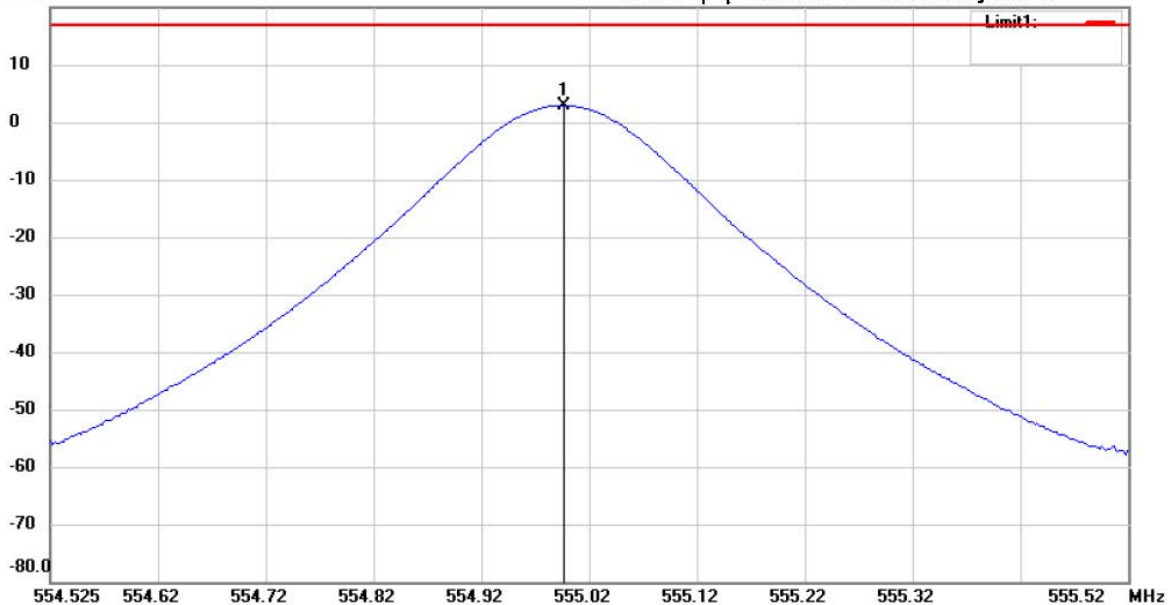
Date: 2019/4/11

Temperature:24 °C

20.0 dBm

Time: 下午 09:45:42

Humidity:60 %



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

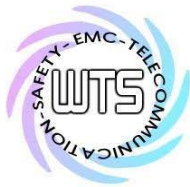
Note :

Polarization: *Vertical*

Power : 120Va.c.

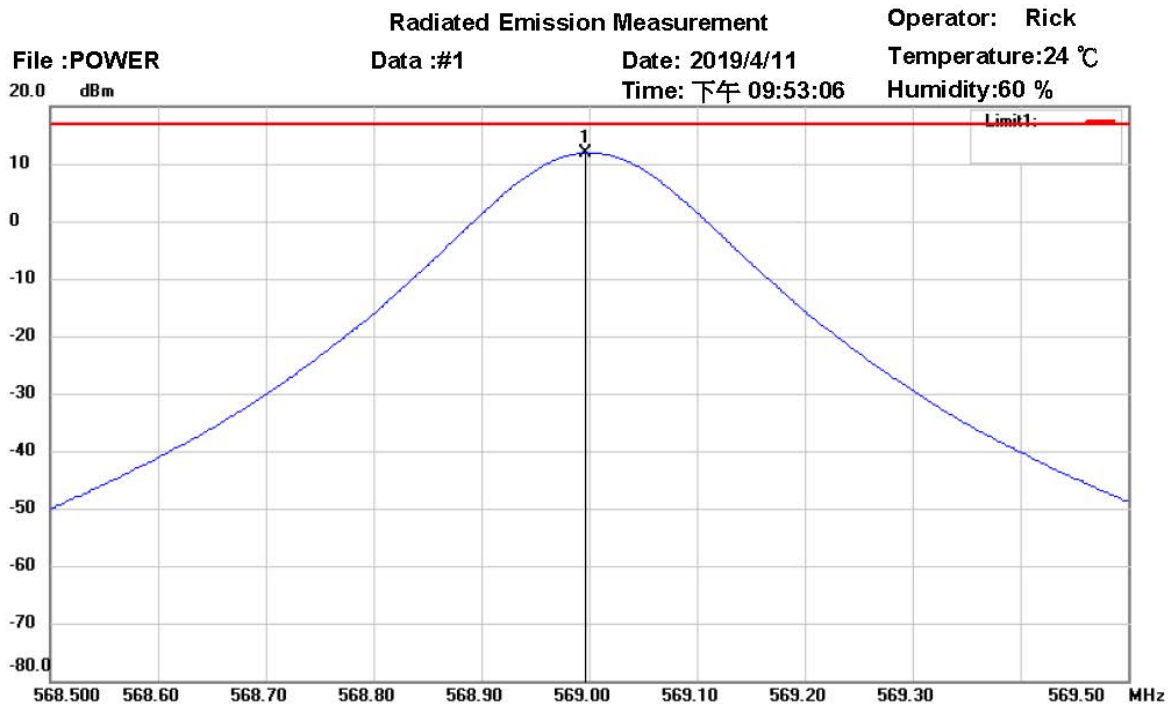
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	555.0000	-27.54	peak	30.45	2.91	17.00	150	200	-14.09	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

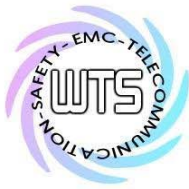
Note :

Polarization: *Horizontal*

Power : 120Va.c.

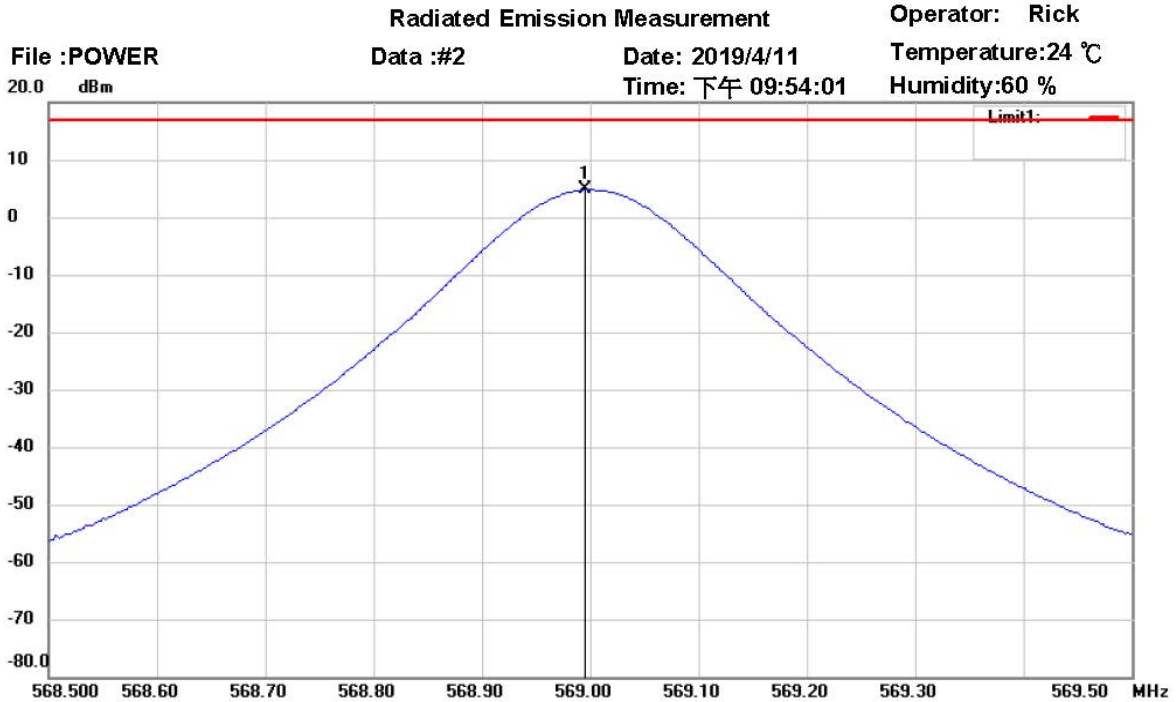
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	568.9970	-20.50	peak	32.37	11.87	17.00	150	210	-5.13	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3



Site : Chamber

Condition : FCC 15.236 POWER

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: **Vertical**

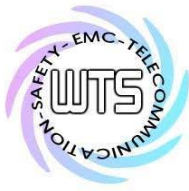
Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	568.9950	-25.65	peak	30.41	4.76	17.00	150	200	-12.24	

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 042, ETSTW-RE 043

Limit According to FCC PART 15.236(d): The output power limit: 50 mW (17 dBm)



Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

5 Occupied Bandwidth, FCC15.236 (f) / Emission Mask, FCC15.236 (g)

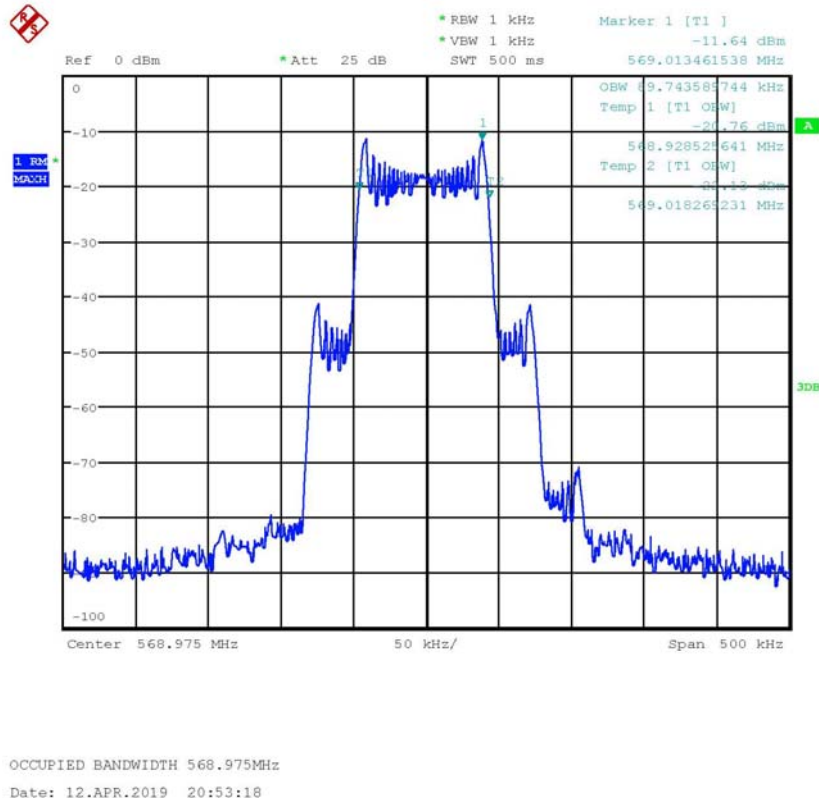
5.1 Test Procedure

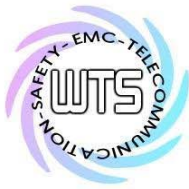
Occupied Bandwidth

- (f) The operating frequency within a permissible band of operation as defined in paragraph (c) must comply with the following requirements.
- (1) The frequency selection shall be offset from the upper or lower band limits by 25 kHz or an integral multiple thereof.
 - (2) One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.
 - (3) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of - 20 degrees to +50 degrees 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 degrees C. Battery (1) In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP
 - (4) In the 600 MHz guard bands including the duplex gap: 20 mW EIRP (e) Operation is limited to locations separated from licensed services by the following distances. (1) Four kilometers outside the following protected service contours of co-channel TV stations. operated equipment shall be tested using a new battery.

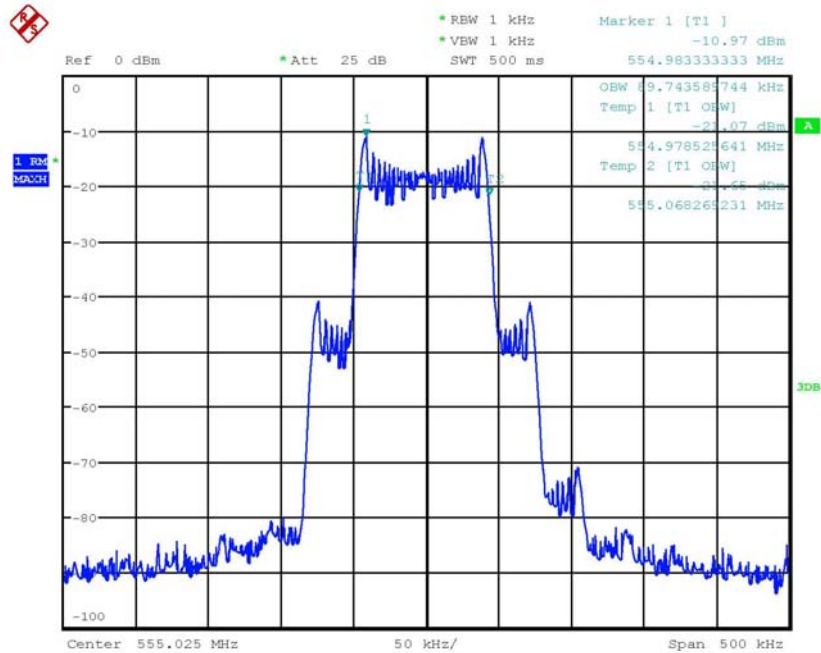
5.2 Test results

Occupied Bandwidth

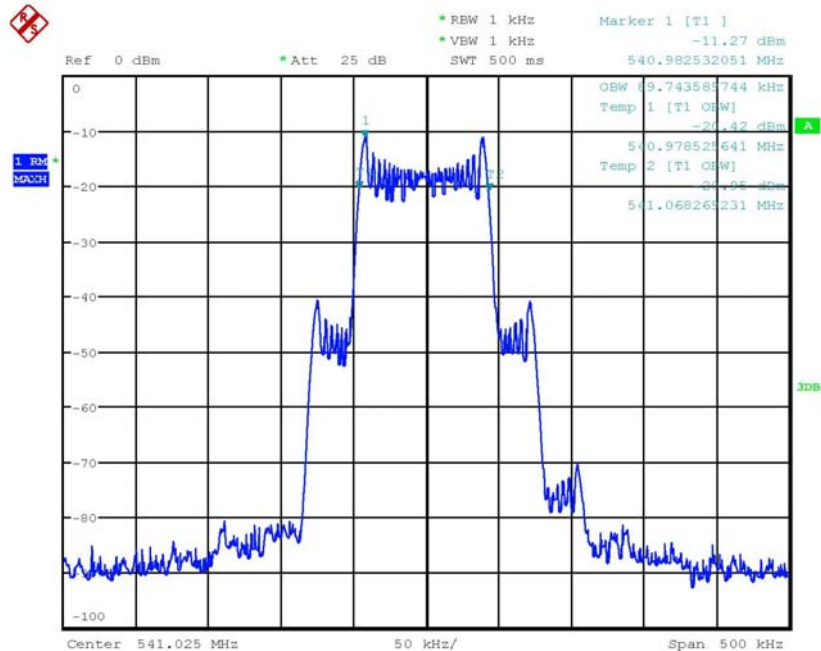




Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3



OCCUPIED BANDWIDTH 555.025MHz
Date: 12.APR.2019 20:54:39

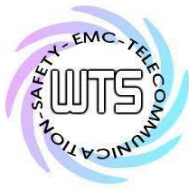


OCCUPIED BANDWIDTH 541.025MHz
Date: 12.APR.2019 20:53:51

Limit

The operating bandwidth shall not exceed 200 kHz.

Test equipment used: ETSTW-RE 055, ETSTW-RE 072, ETSTW-RE 050



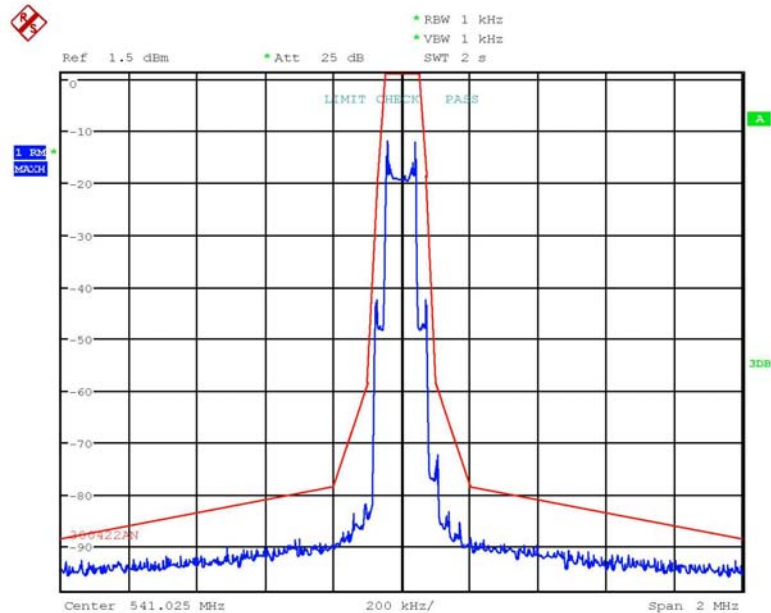
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

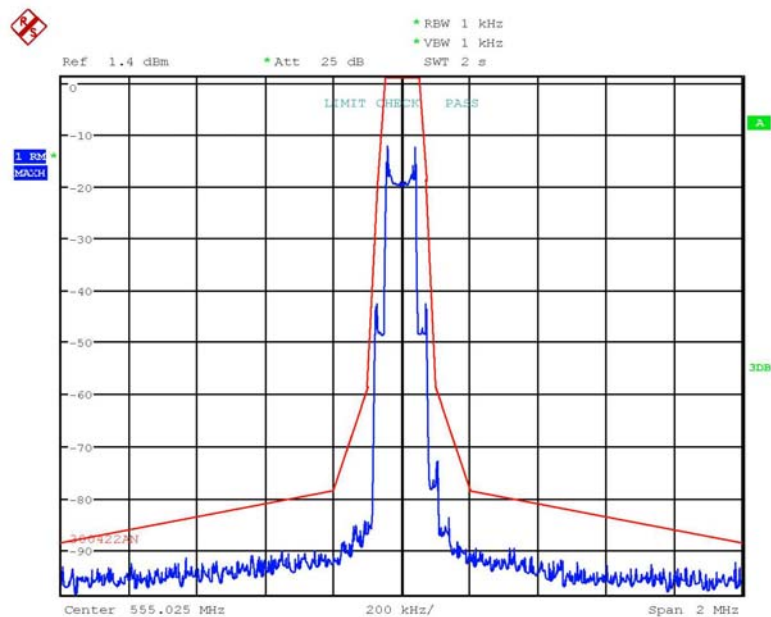
Emission Mask

(g) Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in Section 8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08) (incorporated by reference, see § 15.38). Emissions outside this band shall comply with the limit specified at the edges of the ETSI mask.



NECESSARY BANDWIDTH 541.025MHz

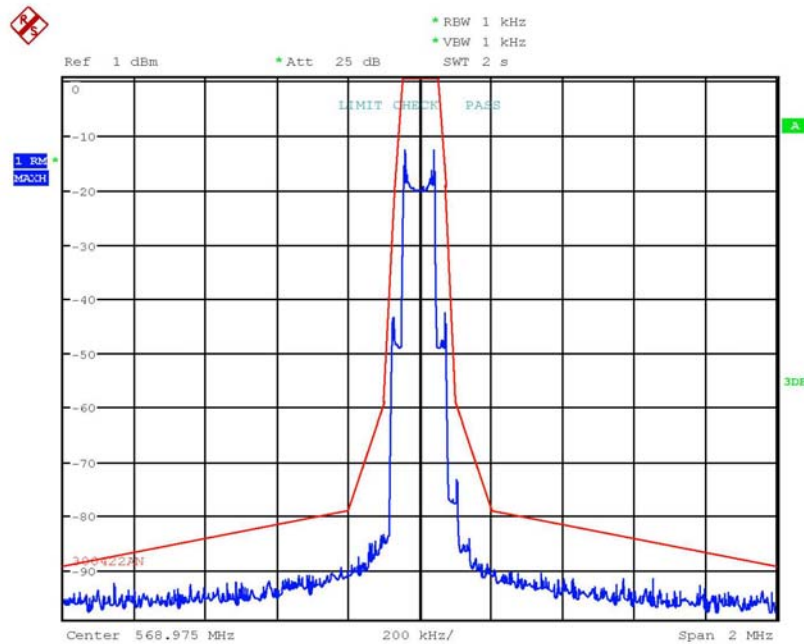
Date: 12.APR.2019 20:47:38



NECESSARY BANDWIDTH 555.025MHz

Date: 12.APR.2019 20:48:56

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3



NECESSARY BANDWIDTH 568.975MHz
Date: 12.APR.2019 20:51:18

Test equipment used: ETSTW-RE 055 , ETSTW-RE 072

LIMIT acc. Subclause 8.3.1.2

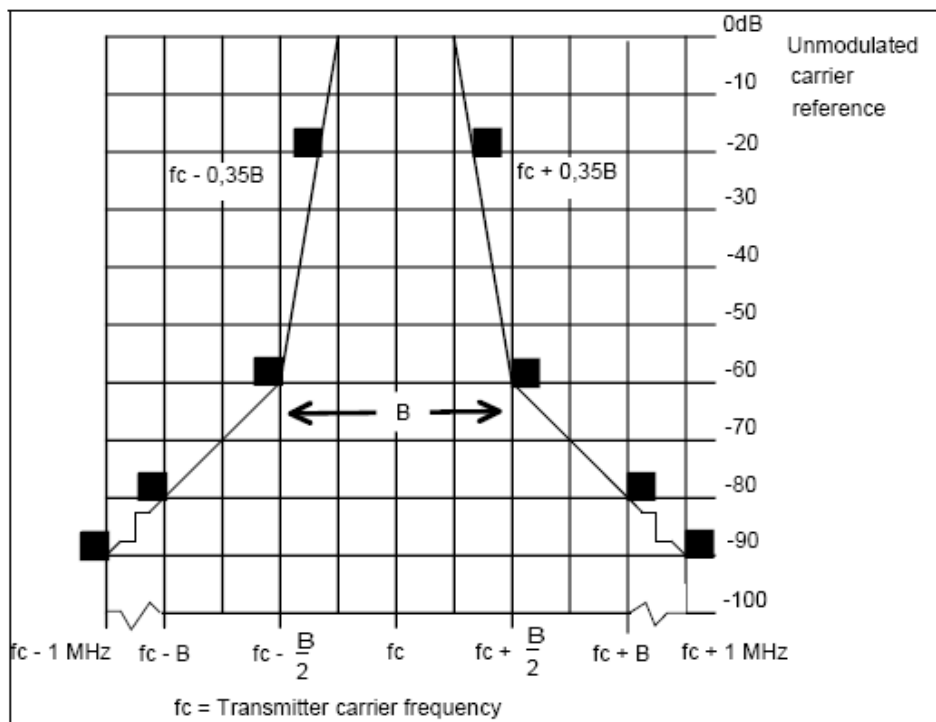


Figure 1: Spectrum mask for analogue systems in all bands

Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

LIMIT acc. Subclause 8.3.2.2

The transmitter output spectrum shall be within the mask defined in figure 2. This mask may also be used for both analogue and digital Assistive Listening Devices.

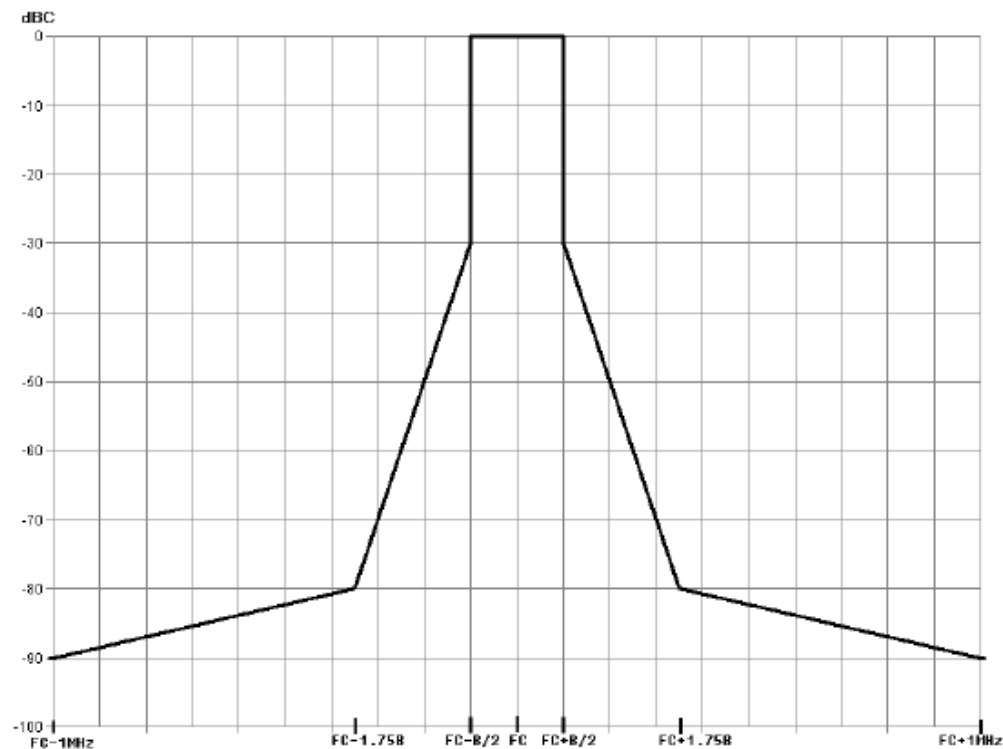
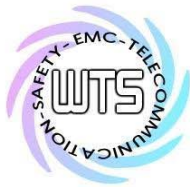


Figure 2: Spectrum mask for digital systems below 1 GHz



Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

6 Radiated Spurious Emission , FCC 15.236(g)

6.1 Test procedure

(g) Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in Section 8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08) (incorporated by reference, see § 15.38). Emissions outside this band shall comply with the limit specified at the edges of the ETSI mask.

6.2 Test results

The measurements of the spurious emission at the upper , center and lower channel.
The measurement diagrams show that all significant spurs are well below the limit line.

Summary table with radiated data of the test plots for Carrier Test Frequency

Model:	Stealth Pro	Date:	--				
Mode:	--	Temperature:	--	°C	Engineer:	--	
Polarization:	Horizontal	Humidity:	--	%			
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization:	Vertical						
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Note:

1. Correction Factor = Antenna Gain + Cable Loss + Amplifier Gain
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. All not in the table noted test results are more than 20 dB below the relevant limits.
4. After evaluated, the test result in this report adopt the worst case to measure, please see attached diagrams in appendix.

Test equipment used: ETSTW-RE 004, ETSTW-RE 122, ETSTW-RE 030, ETSTW-RE 042,
ETSTW-RE 043, ETSTW-RE 044



Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

7 Frequency Stability, FCC 15.236(f)(3)

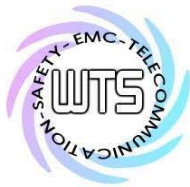
7.1 Test procedure

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees 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 degrees C. Battery operated equipment shall be tested using a new battery.

7.2 Test results

541.025	Freq	Error (kHz)	Error (ppm)
Norm	541.022997	--	--
Volt	541.022997	0.000	0.000
-30	541.031236	8.239	15.229
-20	541.029888	6.891	12.737
-10	541.029006	6.009	11.107
0	541.027083	4.086	7.552
+10	541.026042	3.045	5.628
+20	541.024279	1.282	2.369
+30	541.022596	-0.401	-0.741
+40	541.021234	-1.763	-3.259
+50	541.020753	-2.244	-4.148
Limit	--	27.050	50

555.025	Freq	Error (kHz)	Error (ppm)
Norm	555.023157	--	--
Volt	555.023157	0.000	0.000
-30	555.031490	8.333	15.014
-20	555.030449	7.292	13.138
-10	555.028686	5.529	9.962
0	555.027324	4.167	7.508
+10	555.025962	2.805	5.054
+20	555.024279	1.122	2.022
+30	555.022596	-0.561	-1.011
+40	555.021234	-1.923	-3.465
+50	555.020513	-2.644	-4.764
Limit	--	27.750	50



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

568.975	Freq	Error (kHz)	Error (ppm)
Norm	568.972997	--	--
Volt	568.972997	0.000	0.000
-30	568.982292	9.295	16.336
-20	568.980288	7.291	12.814
-10	568.979087	6.090	10.703
0	568.977324	4.327	7.605
+10	568.976042	3.045	5.352
+20	568.974199	1.202	2.113
+30	568.972516	-0.481	-0.845
+40	568.971074	-1.923	-3.380
+50	568.970513	-2.484	-4.366
Limit	--	28.450	50

Limit According to FCC 15.236(f)(3)

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

Voltage

541.025 MHz			
Test Volt	Carrier Freq.(MHz)	Result(ppm)	limit(ppm)
108Va.c.	541.022997	42.50831793	50
120Va.c.	541.022997	42.50831793	50
132.Va.c.	541.022997	42.50831793	50

555.025 MHz			
Test Volt	Carrier Freq.(MHz)	Result(ppm)	limit(ppm)
108Va.c.	555.023157	41.72432432	50
120Va.c.	555.023157	41.72432432	50
132.Va.c.	555.023157	41.72432432	50

568.975 MHz			
Test Volt	Carrier Freq.(MHz)	Result(ppm)	limit(ppm)
108Va.c.	568.972997	-47.456942	50
120Va.c.	568.972997	-47.456942	50
132.Va.c.	568.972997	-47.456942	50

Limit : $\pm 0.005\%$

Limit According to FCC 15.236(f)(3)

The frequency tolerance of the transmitter shall be 0.005 percent.

Test equipment used: ETSTW-RE 055



Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

8 Line Conducted Emission , FCC 15.207

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power. Near the carrier an Emission Mask is defined by the standard.

8.1 Test procedure

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.

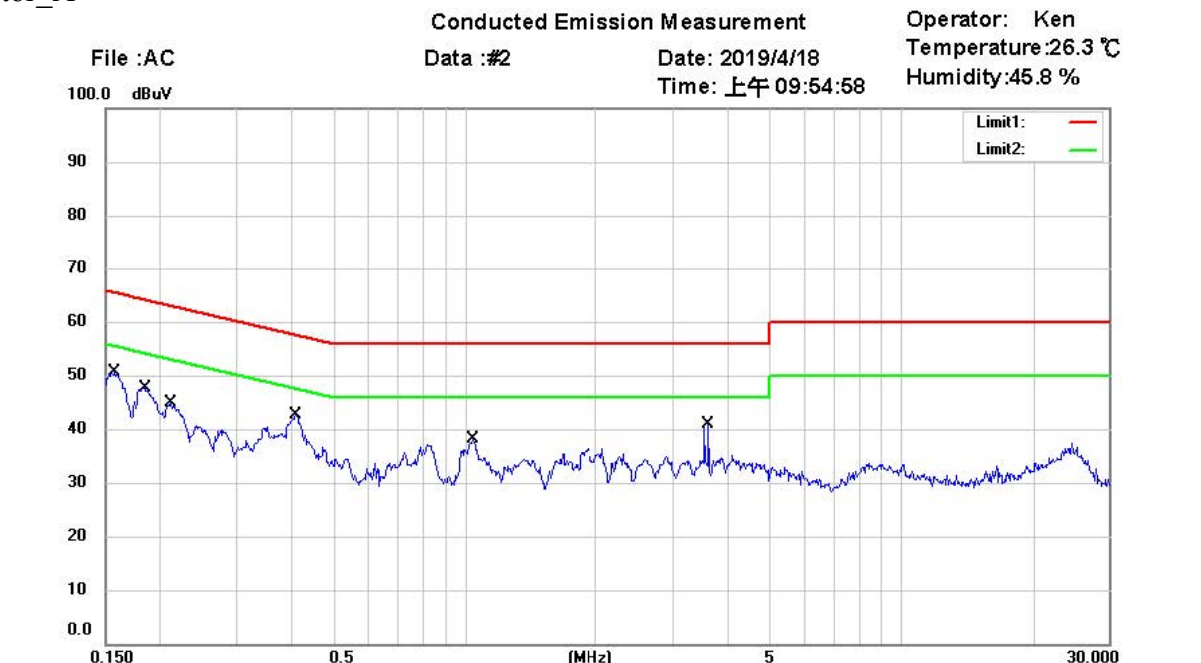


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

8.2 Test Results

adaptor_A



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

EUT : W6M21903-18865

M/N:

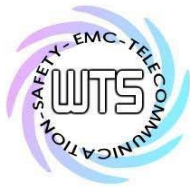
Test Mode : TX

Note :

Phase: N

Power : 120 V.a.c.

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1568	37.15	QP	9.95	47.10	65.63	-18.53	
	0.1568	27.70	AVG	9.95	37.65	55.63	-17.98	
	0.1870	33.55	QP	9.93	43.48	64.17	-20.69	
	0.1870	24.42	AVG	9.93	34.35	54.17	-19.82	
	0.2125	28.05	QP	9.92	37.97	63.11	-25.14	
	0.2125	18.40	AVG	9.92	28.32	53.11	-24.79	
	0.4090	27.89	QP	9.90	37.79	57.67	-19.88	
*	0.4090	22.67	AVG	9.90	32.57	47.67	-15.10	
	1.0400	22.89	QP	9.92	32.81	56.00	-23.19	
	1.0400	16.41	AVG	9.92	26.33	46.00	-19.67	
	3.6140	15.64	QP	9.95	25.59	56.00	-30.41	
	3.6140	8.08	AVG	9.95	18.03	46.00	-27.97	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 26.3 °C
Humidity: 45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865

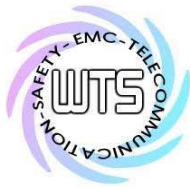
Power : 120 V.a.c.

M/N:

Test Mode : TX

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1542	38.15	QP	9.95	48.10	65.77	-17.67	
	0.1542	31.88	AVG	9.95	41.83	55.77	-13.94	
	0.1830	35.65	QP	9.93	45.58	64.35	-18.77	
	0.1830	30.37	AVG	9.93	40.30	54.35	-14.05	
	0.2121	30.35	QP	9.92	40.27	63.12	-22.85	
	0.2121	21.13	AVG	9.92	31.05	53.12	-22.07	
	0.3481	25.15	QP	9.91	35.06	59.01	-23.95	
	0.3481	19.33	AVG	9.91	29.24	49.01	-19.77	
	0.4086	31.72	QP	9.90	41.62	57.68	-16.06	
*	0.4086	25.58	AVG	9.90	35.48	47.68	-12.20	
	1.0332	28.07	QP	9.91	37.98	56.00	-18.02	
	1.0332	20.98	AVG	9.91	30.89	46.00	-15.11	

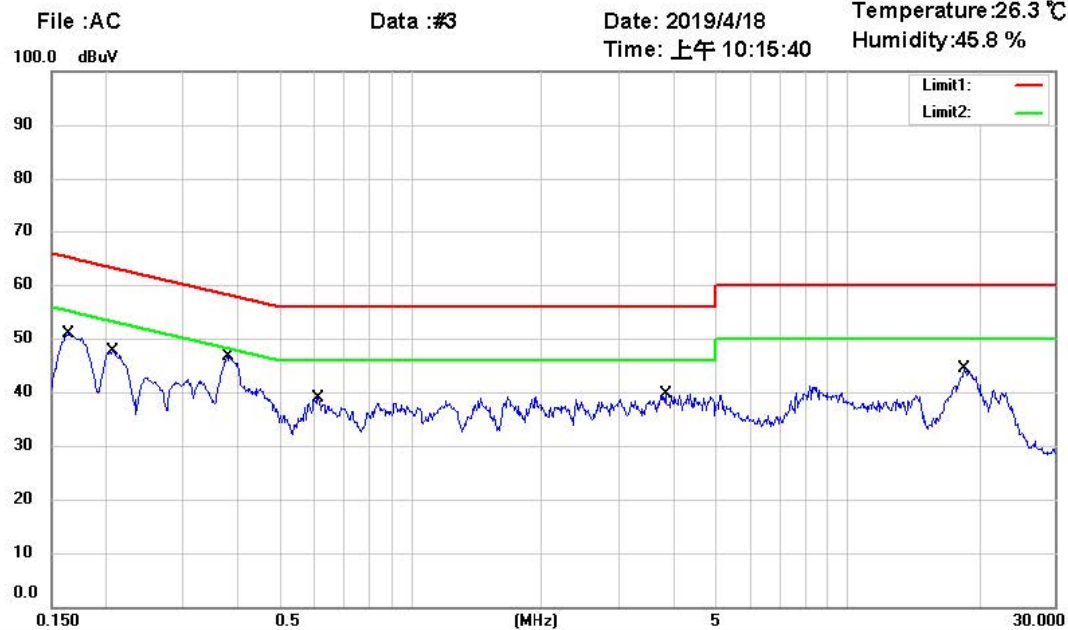


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 26.3 °C
Humidity: 45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT: W6M21903-18865

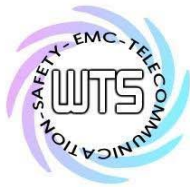
Power : 120 V.a.c.

M/N:

Test Mode : RX1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1635	34.47	QP	9.94	44.41	65.28	-20.87	
	0.1635	18.07	AVG	9.94	28.01	55.28	-27.27	
	0.2081	32.05	QP	9.92	41.97	63.28	-21.31	
	0.2081	23.60	AVG	9.92	33.52	53.28	-19.76	
	0.3815	30.57	QP	9.90	40.47	58.25	-17.78	
*	0.3815	25.50	AVG	9.90	35.40	48.25	-12.85	
	0.6125	22.84	QP	9.91	32.75	56.00	-23.25	
	0.6125	15.60	AVG	9.91	25.51	46.00	-20.49	
	3.8368	20.23	QP	9.96	30.19	56.00	-25.81	
	3.8368	13.04	AVG	9.96	23.00	46.00	-23.00	
	18.4375	25.04	QP	10.31	35.35	60.00	-24.65	
	18.4375	15.47	AVG	10.31	25.78	50.00	-24.22	

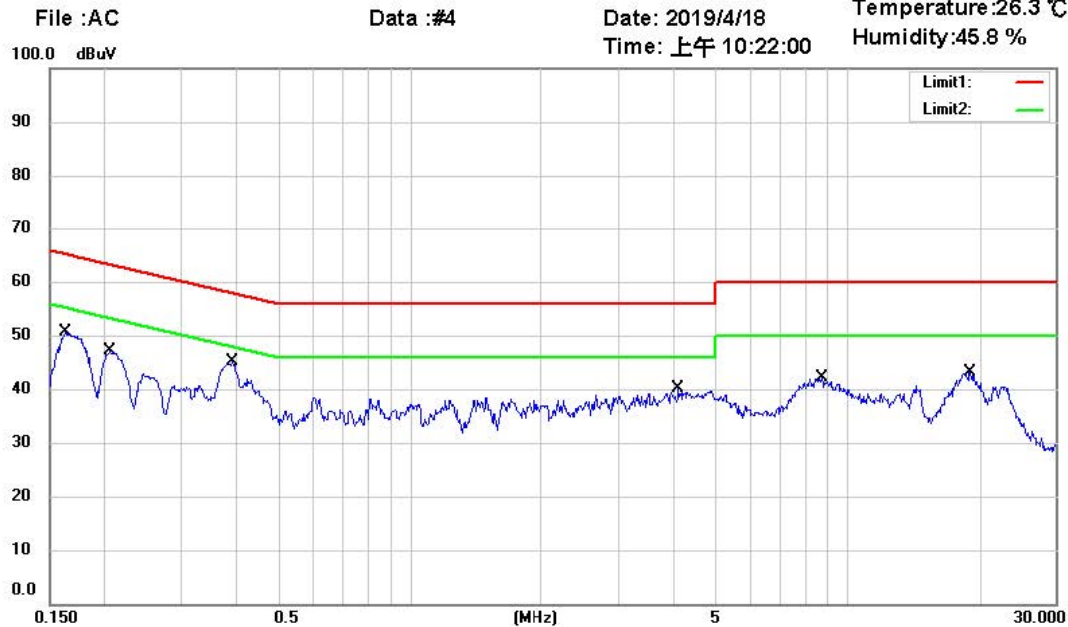


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 26.3 °C
Humidity: 45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865

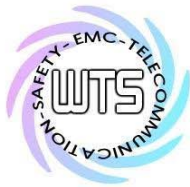
Power : 120 V.a.c.

M/N:

Test Mode : RX1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1623	32.75	QP	9.94	42.69	65.35	-22.66	
	0.1623	18.45	AVG	9.94	28.39	55.35	-26.96	
	0.2070	31.91	QP	9.92	41.83	63.32	-21.49	
	0.2070	23.04	AVG	9.92	32.96	53.32	-20.36	
	0.3924	28.78	QP	9.90	38.68	58.01	-19.33	
*	0.3924	21.21	AVG	9.90	31.11	48.01	-16.90	
	4.1113	21.43	QP	9.95	31.38	56.00	-24.62	
	4.1113	13.33	AVG	9.95	23.28	46.00	-22.72	
	8.7000	24.65	QP	10.03	34.68	60.00	-25.32	
	8.7000	16.52	AVG	10.03	26.55	50.00	-23.45	
	19.0000	24.36	QP	10.19	34.55	60.00	-25.45	
	19.0000	16.91	AVG	10.19	27.10	50.00	-22.90	

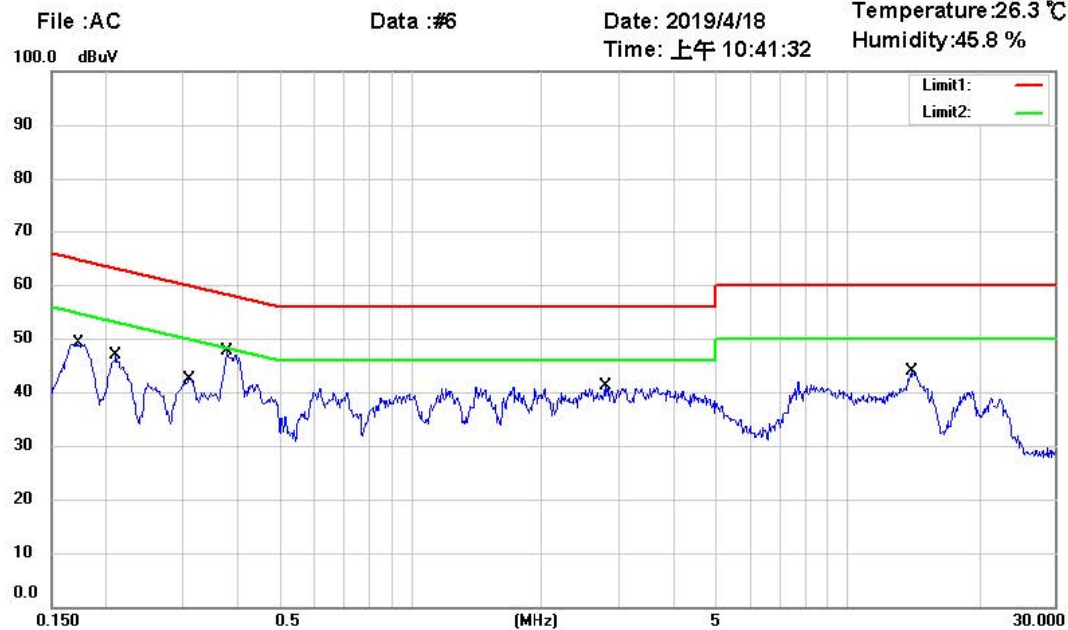


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 26.3 °C
Humidity: 45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT: W6M21903-18865

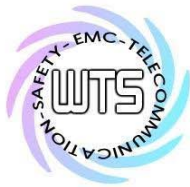
Power : 120 V.a.c.

M/N:

Test Mode : RX2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1728	35.51	QP	9.94	45.45	64.82	-19.37	
	0.1728	24.27	AVG	9.94	34.21	54.82	-20.61	
	0.2116	30.05	QP	9.92	39.97	63.14	-23.17	
	0.2116	21.55	AVG	9.92	31.47	53.14	-21.67	
	0.3105	26.45	QP	9.91	36.36	59.96	-23.60	
	0.3105	17.45	AVG	9.91	27.36	49.96	-22.60	
	0.3784	30.92	QP	9.90	40.82	58.31	-17.49	
*	0.3784	22.83	AVG	9.90	32.73	48.31	-15.58	
	2.7883	22.17	QP	9.94	32.11	56.00	-23.89	
	2.7883	16.15	AVG	9.94	26.09	46.00	-19.91	
	13.9875	25.00	QP	10.22	35.22	60.00	-24.78	
	13.9875	16.84	AVG	10.22	27.06	50.00	-22.94	

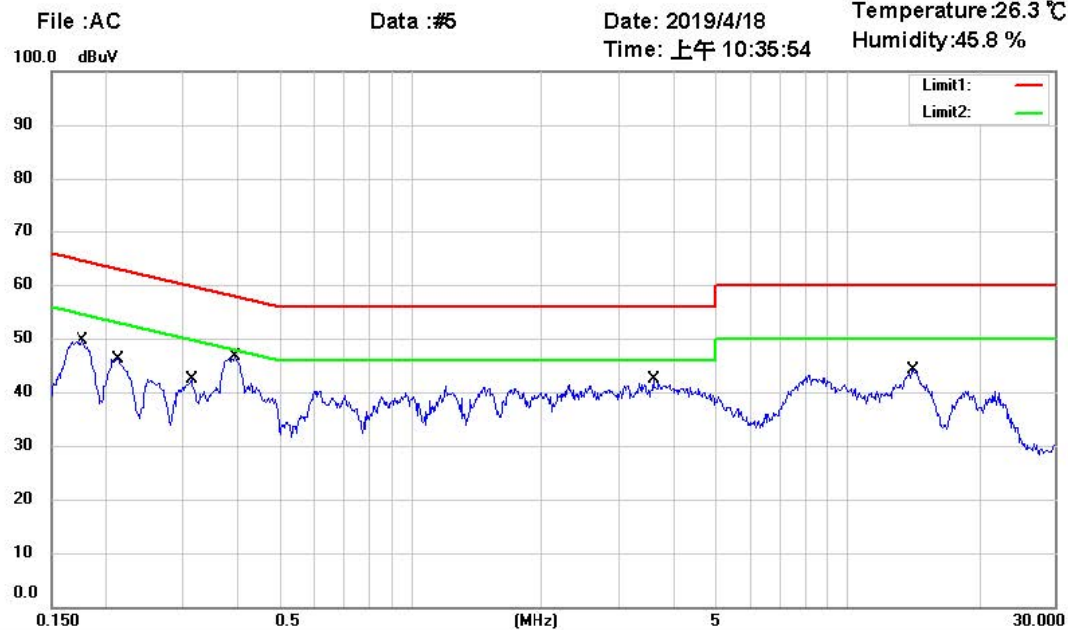


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 26.3 °C
Humidity: 45.8 %



Site : Chamber_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865

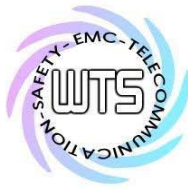
Power : 120 V.a.c.

M/N:

Test Mode : RX2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1763	35.45	QP	9.93	45.38	64.66	-19.28	
	0.1763	21.30	AVG	9.93	31.23	54.66	-23.43	
	0.2130	30.64	QP	9.92	40.56	63.09	-22.53	
	0.2130	18.49	AVG	9.92	28.41	53.09	-24.68	
	0.3144	23.31	QP	9.91	33.22	59.85	-26.63	
	0.3144	15.38	AVG	9.91	25.29	49.85	-24.56	
	0.3941	31.31	QP	9.90	41.21	57.98	-16.77	
*	0.3941	25.63	AVG	9.90	35.53	47.98	-12.45	
	3.6005	24.43	QP	9.95	34.38	56.00	-21.62	
	3.6005	16.94	AVG	9.95	26.89	46.00	-19.11	
	14.0750	26.81	QP	10.15	36.96	60.00	-23.04	
	14.0750	18.75	AVG	10.15	28.90	50.00	-21.10	

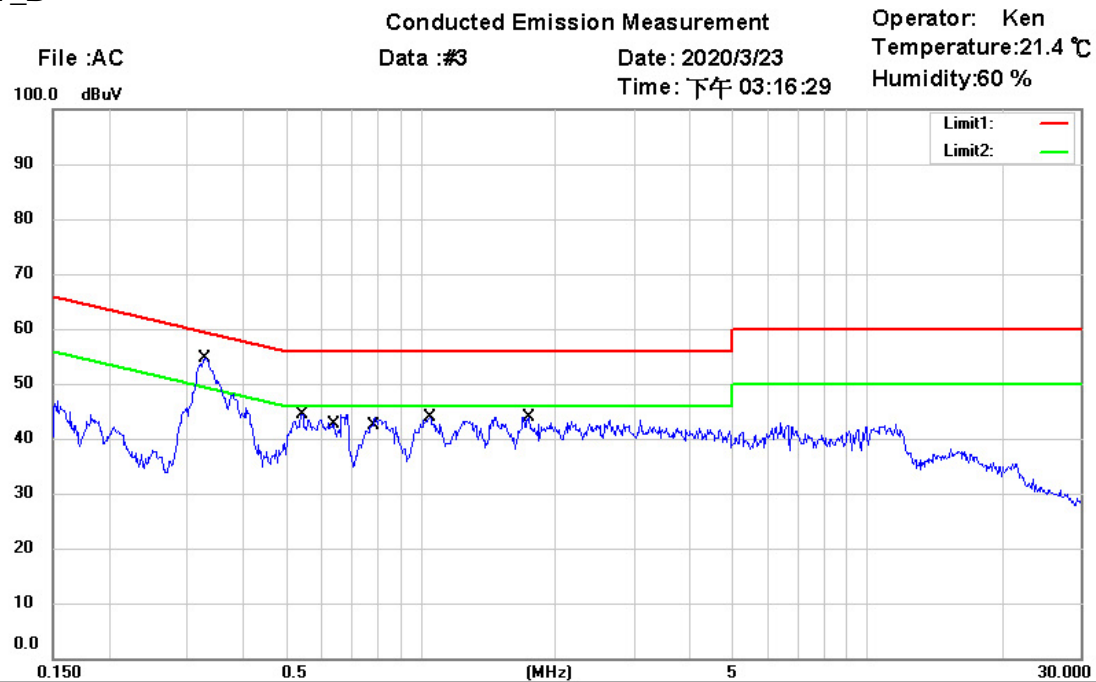


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

adaptor_B



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21903-18865-R1

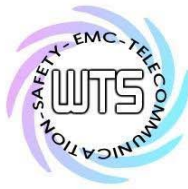
Power : 120 V.a.c.

M/N:

Test Mode : TX

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.3304	41.86	QP	9.70	51.56	59.44	-7.88	
*	0.3304	33.50	AVG	9.70	43.20	49.44	-6.24	
	0.5427	29.84	QP	9.68	39.52	56.00	-16.48	
	0.5427	22.23	AVG	9.68	31.91	46.00	-14.09	
	0.6394	28.17	QP	9.67	37.84	56.00	-18.16	
	0.6394	20.57	AVG	9.67	30.24	46.00	-15.76	
	0.7737	29.66	QP	9.65	39.31	56.00	-16.69	
	0.7737	22.63	AVG	9.65	32.28	46.00	-13.72	
	1.0467	30.57	QP	9.63	40.20	56.00	-15.80	
	1.0467	23.92	AVG	9.63	33.55	46.00	-12.45	
	1.7398	28.55	QP	9.56	38.11	56.00	-17.89	
	1.7398	21.54	AVG	9.56	31.10	46.00	-14.90	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1

FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken

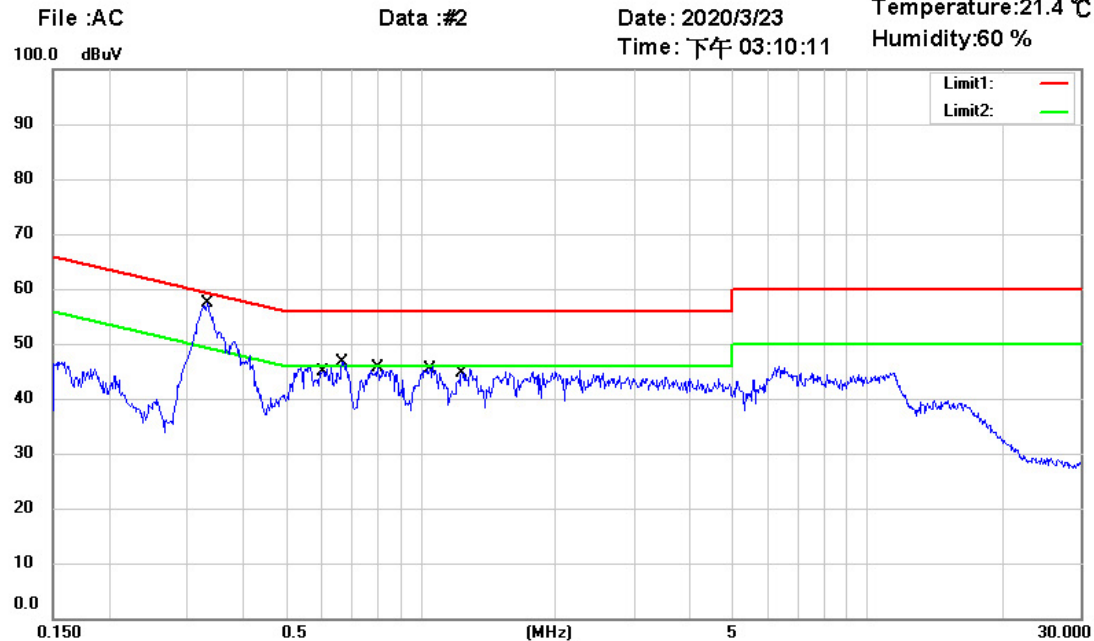
Data :#2

Date: 2020/3/23

Temperature:21.4 °C

Time: 下午 03:10:11

Humidity:60 %



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865-R1

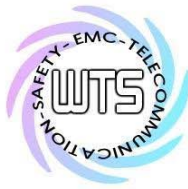
Power : 120 V.a.c.

M/N:

Test Mode : TX

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.3316	42.48	QP	9.72	52.20	59.41	-7.21	
	0.3316	21.43	AVG	9.72	31.15	49.41	-18.26	
	0.6012	35.48	QP	9.69	45.17	56.00	-10.83	
	0.6012	32.67	AVG	9.69	42.36	46.00	-3.64	
	0.6638	32.53	QP	9.68	42.21	56.00	-13.79	
	0.6638	27.42	AVG	9.68	37.10	46.00	-8.90	
	0.7885	32.84	QP	9.67	42.51	56.00	-13.49	
	0.7885	23.30	AVG	9.67	32.97	46.00	-13.03	
	1.0440	41.04	QP	9.65	50.69	56.00	-5.31	
*	1.0440	33.89	AVG	9.65	43.54	46.00	-2.46	
	1.2328	36.59	QP	9.63	46.22	56.00	-9.78	
	1.2328	29.71	AVG	9.63	39.34	46.00	-6.66	

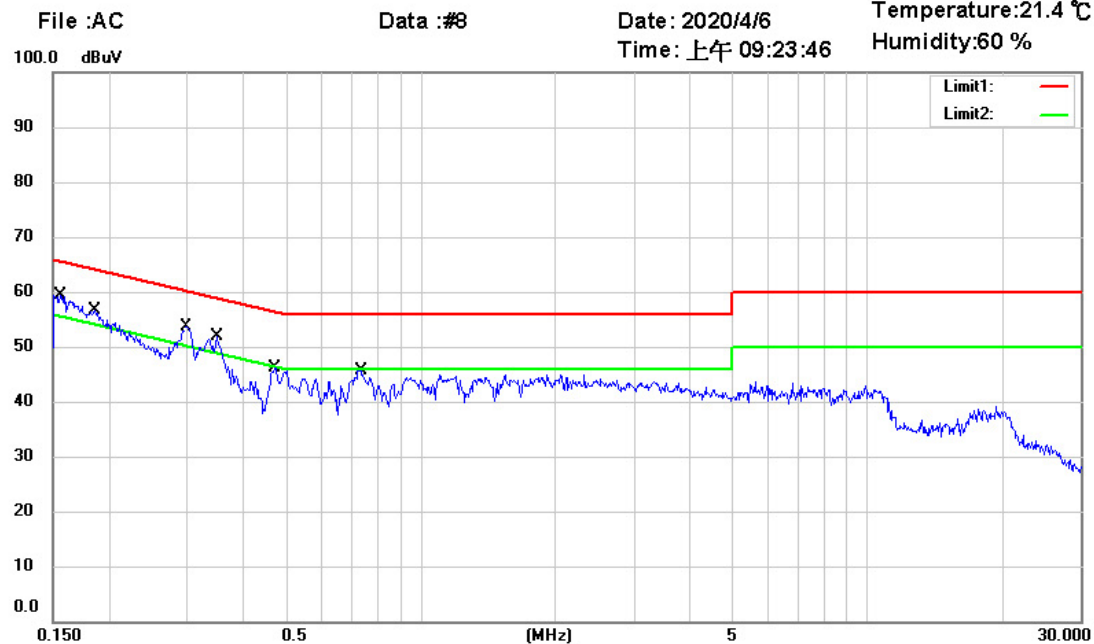


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 21.4 °C
Humidity: 60 %



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21903-18865-R1

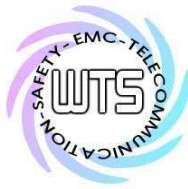
Power : 120 V.a.c.

M/N:

Test Mode : RX1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1556	36.90	QP	9.75	46.65	65.70	-19.05	
	0.1556	28.56	AVG	9.75	38.31	55.70	-17.39	
	0.1882	33.66	QP	9.73	43.39	64.12	-20.73	
	0.1882	22.44	AVG	9.73	32.17	54.12	-21.95	
*	0.2982	42.04	QP	9.71	51.75	60.29	-8.54	
	0.2982	31.98	AVG	9.71	41.69	50.29	-8.60	
	0.3498	38.21	QP	9.70	47.91	58.97	-11.06	
	0.3498	26.84	AVG	9.70	36.54	48.97	-12.43	
	0.4690	29.52	QP	9.68	39.20	56.53	-17.33	
	0.4690	16.19	AVG	9.68	25.87	46.53	-20.66	
	0.7318	31.91	QP	9.66	41.57	56.00	-14.43	
	0.7318	23.91	AVG	9.66	33.57	46.00	-12.43	

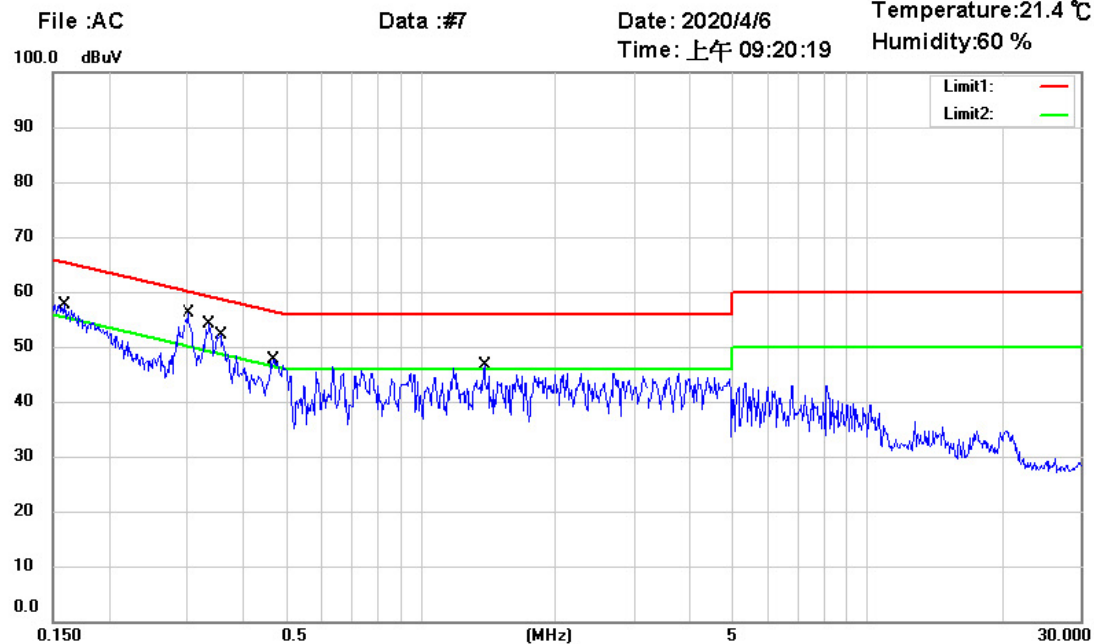


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 21.4 °C
Humidity: 60 %



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865-R1

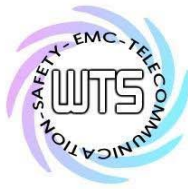
Power : 120 V.a.c.

M/N:

Test Mode : RX1

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1586	40.25	QP	9.77	50.02	65.54	-15.52	
*	0.1586	37.63	AVG	9.77	47.40	55.54	-8.14	
	0.3011	41.80	QP	9.73	51.53	60.21	-8.68	
	0.3011	26.39	AVG	9.73	36.12	50.21	-14.09	
	0.3362	27.55	QP	9.72	37.27	59.30	-22.03	
	0.3362	16.77	AVG	9.72	26.49	49.30	-22.81	
	0.3571	31.39	QP	9.72	41.11	58.80	-17.69	
	0.3571	20.25	AVG	9.72	29.97	48.80	-18.83	
	0.4683	34.13	QP	9.70	43.83	56.54	-12.71	
	0.4683	23.75	AVG	9.70	33.45	46.54	-13.09	
	1.3865	25.18	QP	9.62	34.80	56.00	-21.20	
	1.3865	12.53	AVG	9.62	22.15	46.00	-23.85	

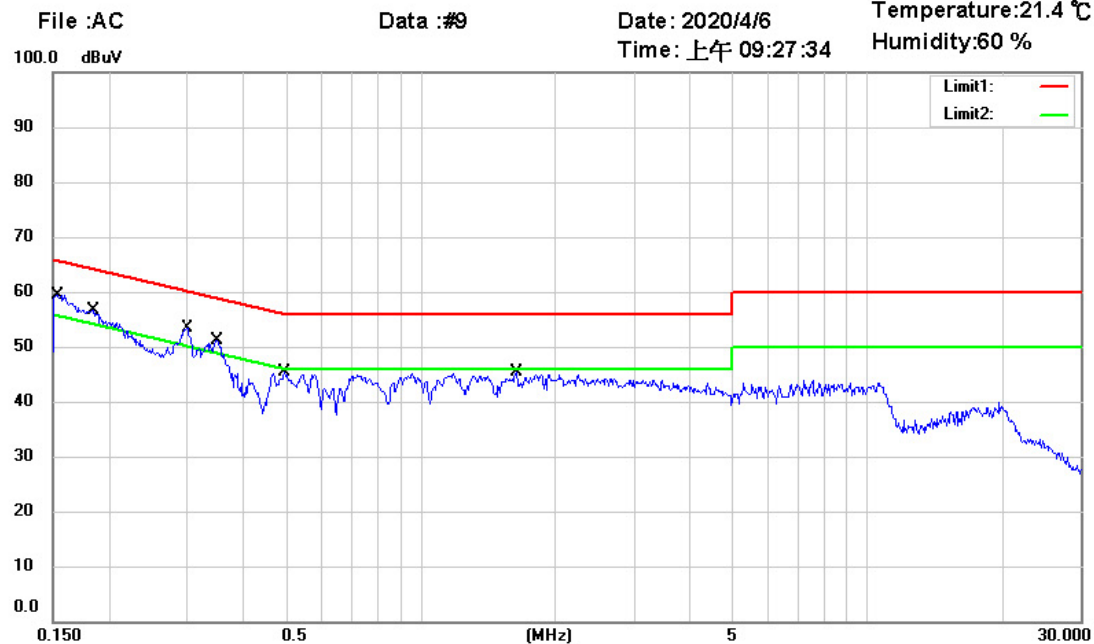


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 21.4 °C
Humidity: 60 %



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21903-18865-R1

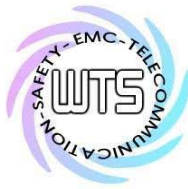
Power : 120 V.a.c.

M/N:

Test Mode : RX2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1525	36.81	QP	9.75	46.56	65.86	-19.30	
	0.1525	26.47	AVG	9.75	36.22	55.86	-19.64	
	0.1836	33.97	QP	9.74	43.71	64.32	-20.61	
	0.1836	27.53	AVG	9.74	37.27	54.32	-17.05	
*	0.3003	41.12	QP	9.71	50.83	60.23	-9.40	
	0.3003	27.75	AVG	9.71	37.46	50.23	-12.77	
	0.3490	37.49	QP	9.70	47.19	58.99	-11.80	
	0.3490	29.11	AVG	9.70	38.81	48.99	-10.18	
	0.4951	27.96	QP	9.68	37.64	56.08	-18.44	
	0.4951	16.98	AVG	9.68	26.66	46.08	-19.42	
	1.6340	29.96	QP	9.57	39.53	56.00	-16.47	
	1.6340	22.19	AVG	9.57	31.76	46.00	-14.24	

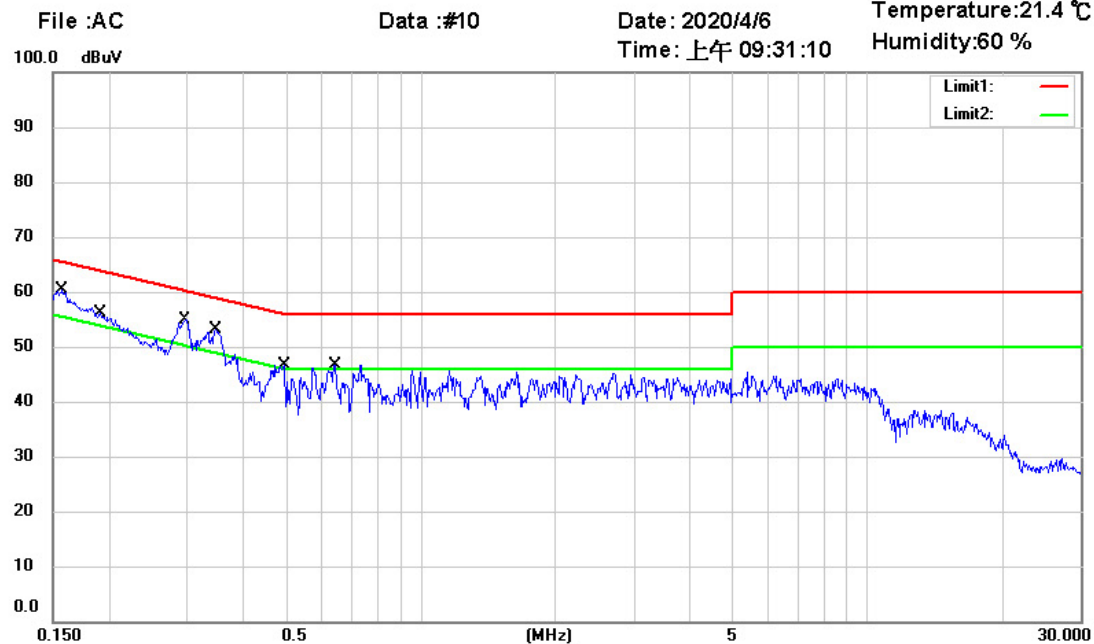


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Conducted Emission Measurement

Operator: Ken
Temperature: 21.4 °C
Humidity: 60 %



Site : Open Area Test Site

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21903-18865-R1

Power : 120 V.a.c.

M/N:

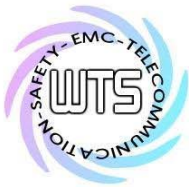
Test Mode : RX2

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1570	37.02	QP	9.77	46.79	65.62	-18.83	
*	0.1570	28.99	AVG	9.77	38.76	55.62	-16.86	
	0.1906	33.90	QP	9.75	43.65	64.01	-20.36	
	0.1906	14.82	AVG	9.75	24.57	54.01	-29.44	
	0.2945	29.48	QP	9.73	39.21	60.40	-21.19	
	0.2945	20.02	AVG	9.73	29.75	50.40	-20.65	
	0.3470	30.93	QP	9.72	40.65	59.03	-18.38	
	0.3470	17.41	AVG	9.72	27.13	49.03	-21.90	
	0.4948	23.75	QP	9.70	33.45	56.09	-22.64	
	0.4948	10.75	AVG	9.70	20.45	46.09	-25.64	
	0.6418	21.59	QP	9.69	31.28	56.00	-24.72	
	0.6418	8.91	AVG	9.69	18.60	46.00	-27.40	

- 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.

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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21903-18865-C-1-R1
FCC ID: Y4O-TWR3

Appendix

Measurement diagrams

Radiation Spurious Emission



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: Rick

File :1

Data :#2

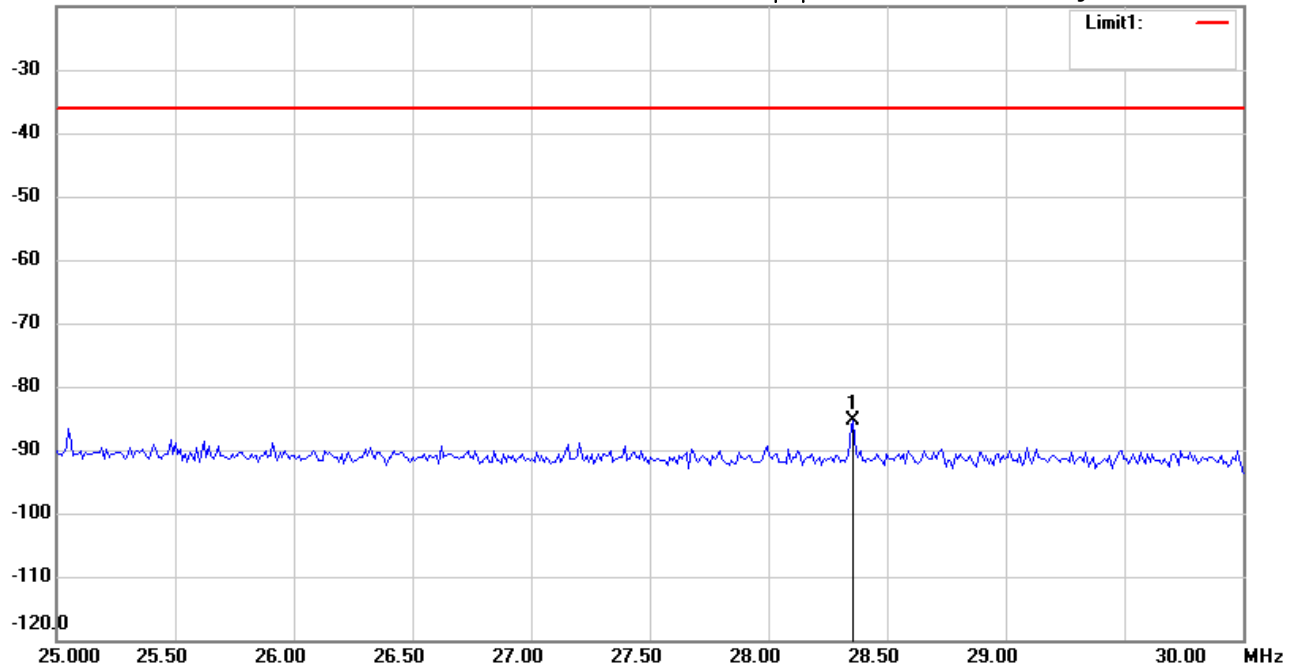
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:23:12

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

Polarization: *Horizontal*

EUT : W6M21903-18865

Power : 120Va.c.

M/N:

Distance: 3m

Test Mode : Tx 541.025MHz

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-110.33	peak	24.91	-85.42	-36.00	150	200	-49.42	



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #4

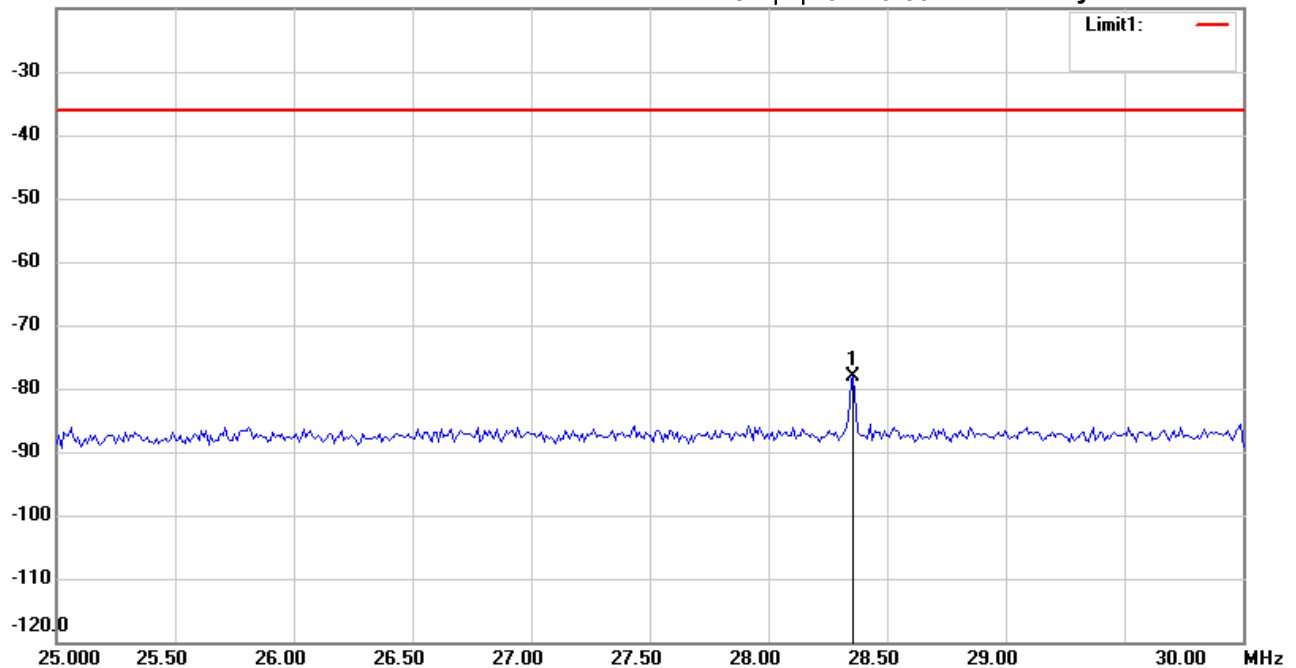
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:26:53

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-102.31	peak	24.07	-78.24	-36.00	150	250	-42.24	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#3

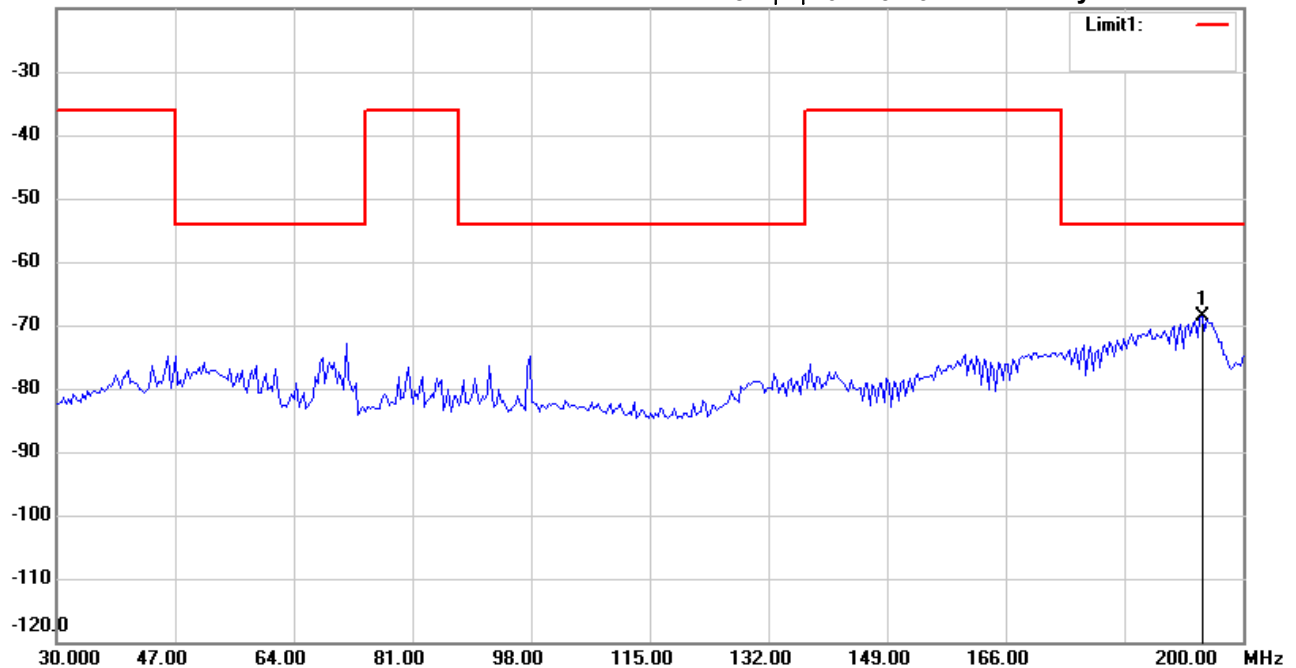
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:23:49

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	194.2084	-90.27	peak	21.65	-68.62	-54.00	150	80	-14.62	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#5

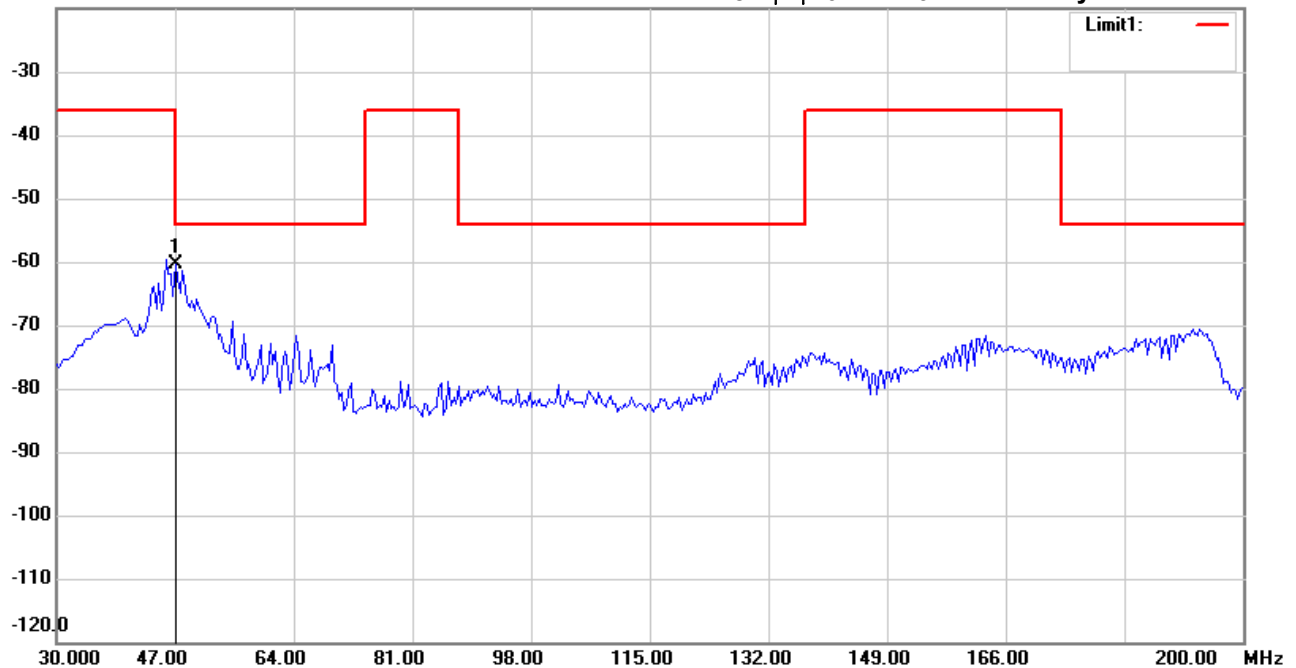
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:27:29

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	47.0340	-81.56	peak	21.15	-60.41	-54.00	150	300	-6.41	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #1

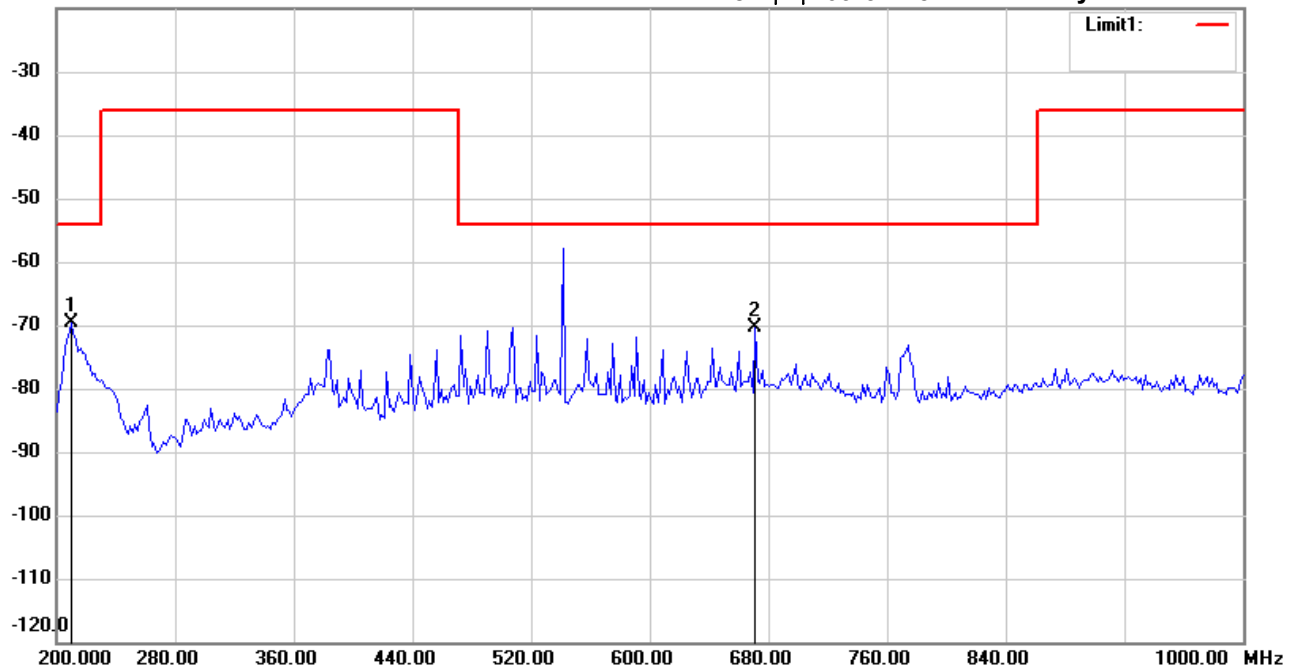
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:34:15

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	209.6192	-54.50	peak	-15.20	-69.70	-54.00	150	110	-15.70	
	671.3427	-67.85	peak	-2.63	-70.48	-54.00	150	300	-16.48	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #2

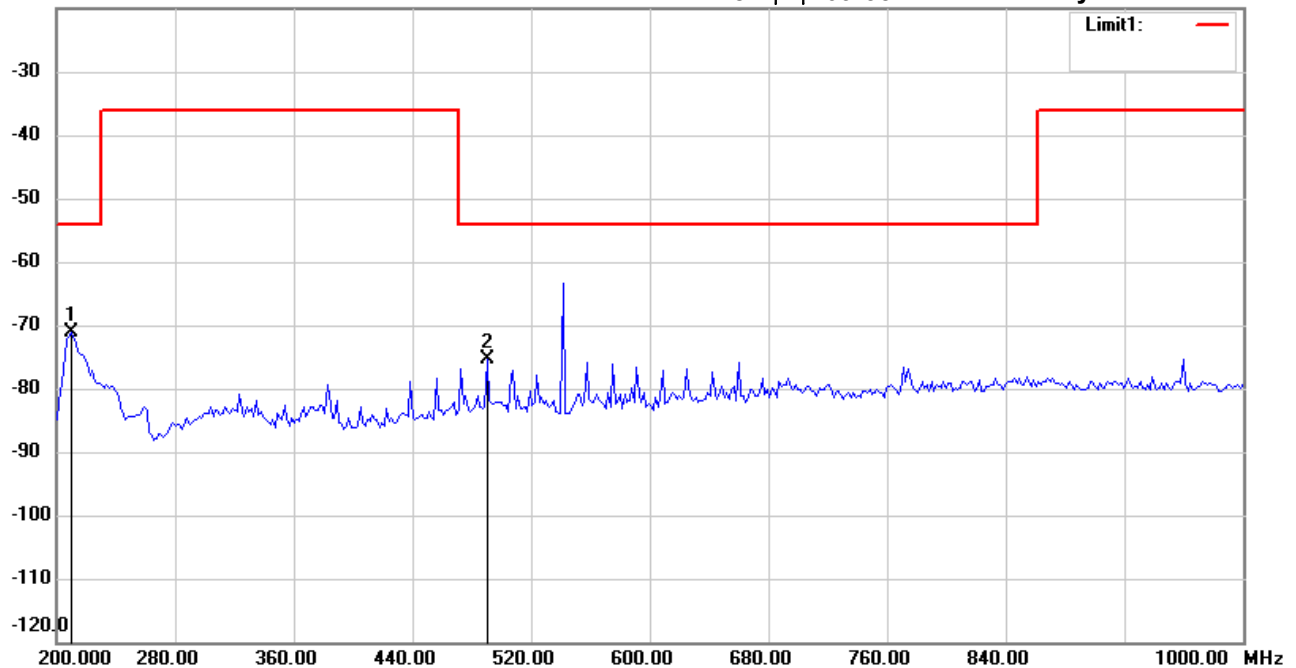
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:35:22

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	209.6192	-56.10	peak	-15.12	-71.22	-54.00	150	300	-17.22	
	490.1804	-68.35	peak	-7.08	-75.43	-54.00	150	210	-21.43	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #1

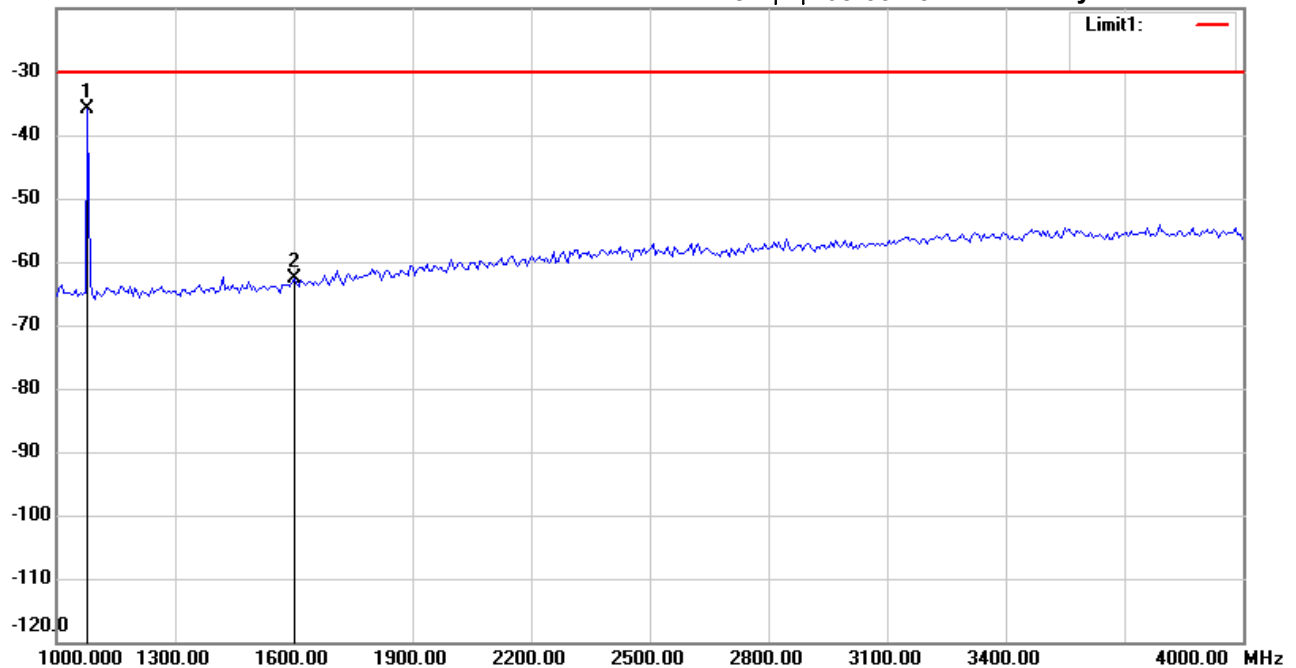
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:33:45

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1078.156	-33.76	peak	-2.16	-35.92	-30.00	150	300	-5.92	
	1601.202	-61.20	peak	-1.53	-62.73	-30.00	150	210	-32.73	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #4

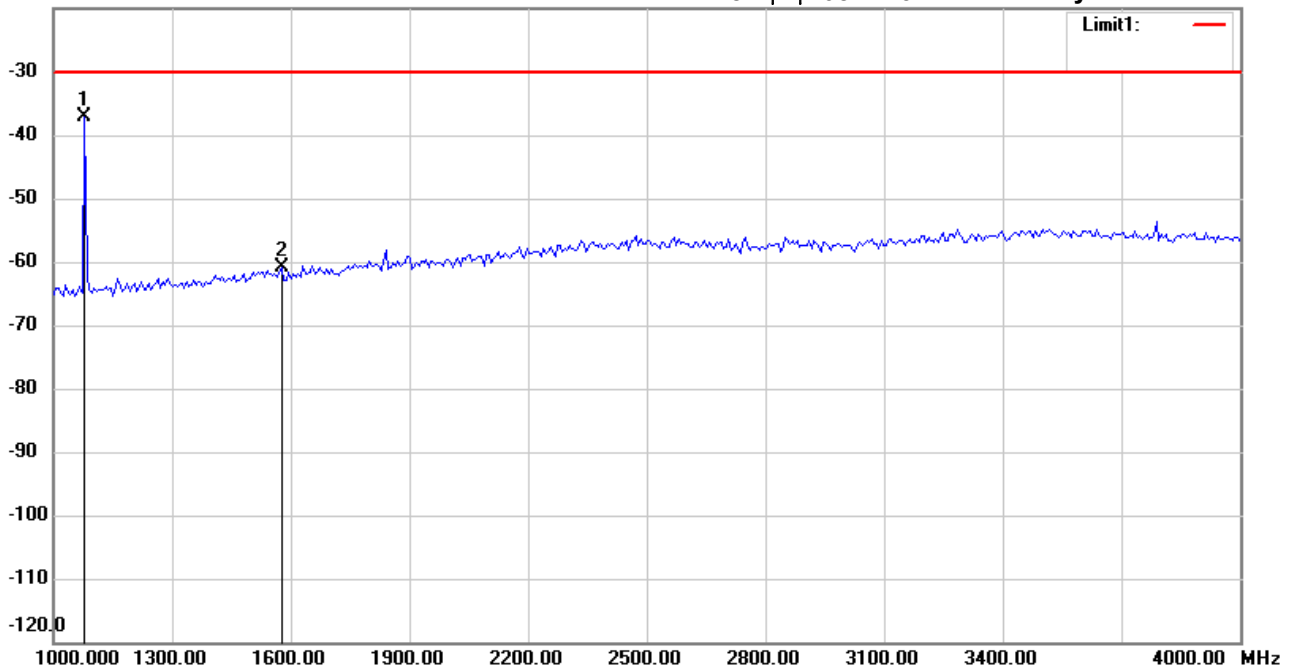
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:24:32

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1078.156	-35.49	peak	-1.53	-37.02	-30.00	150	110	-7.02	
	1577.154	-60.99	peak	0.15	-60.84	-30.00	150	250	-30.84	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #2

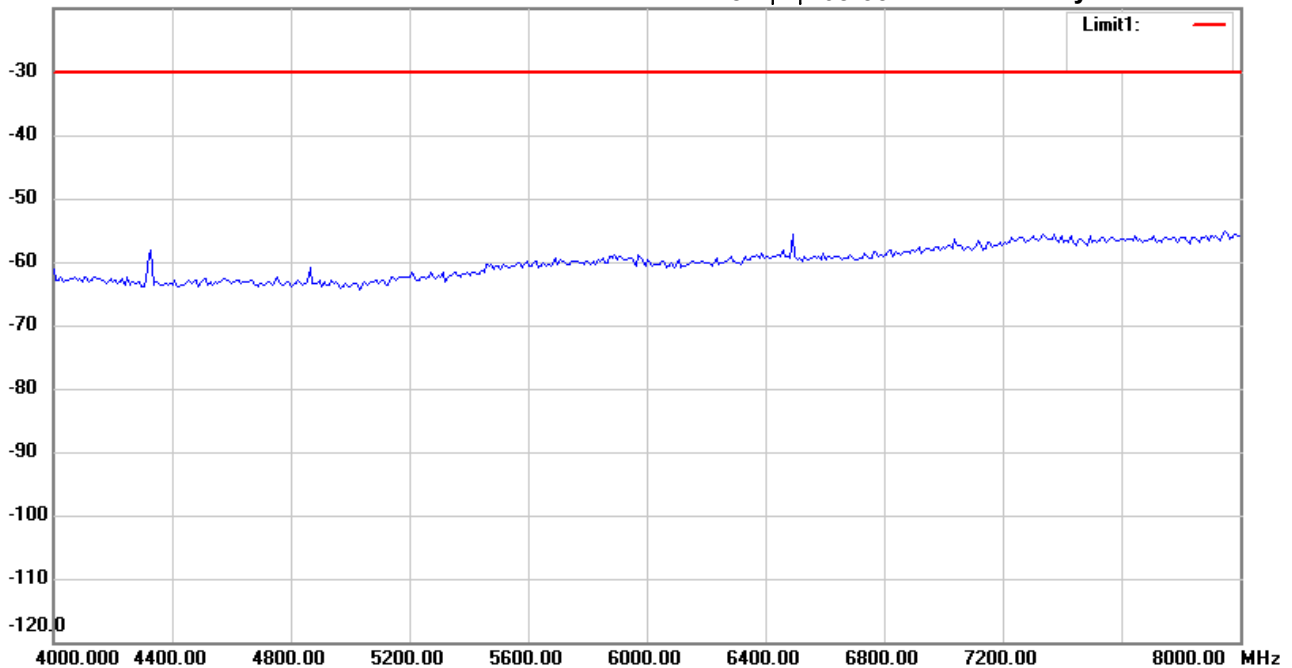
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:35:21

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	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: Rick

File : 3

Data : #5

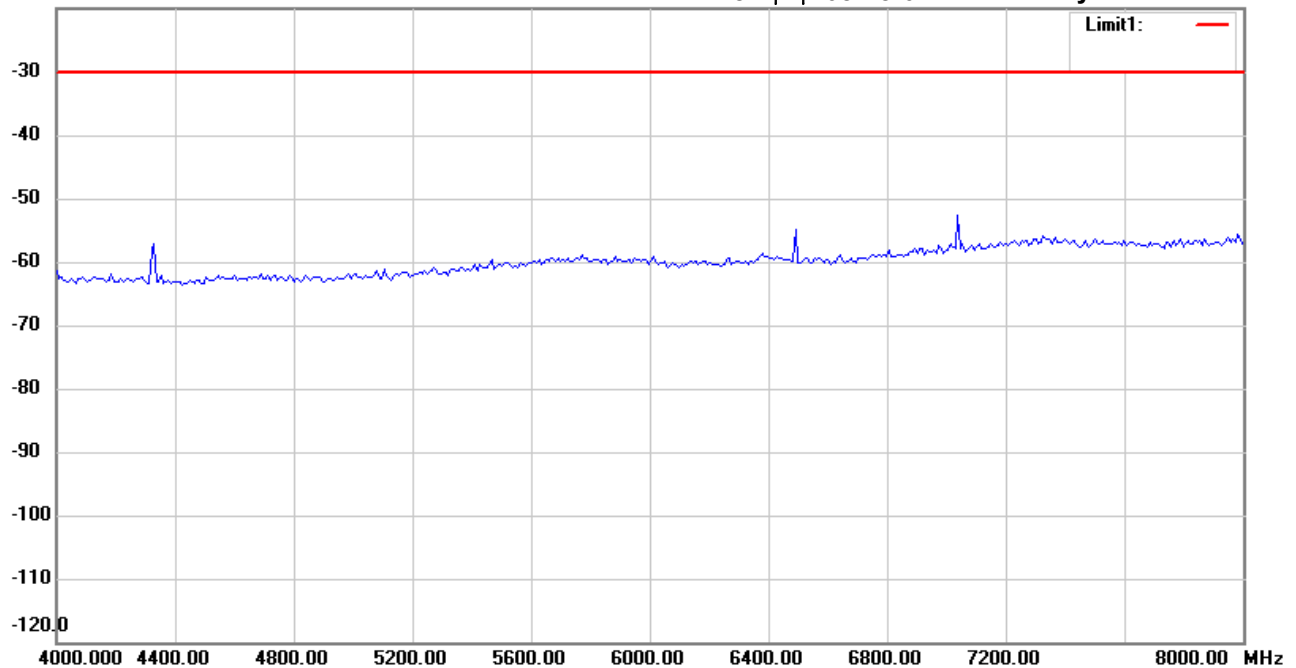
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:28:01

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	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: Rick

File : 3

Data : #3

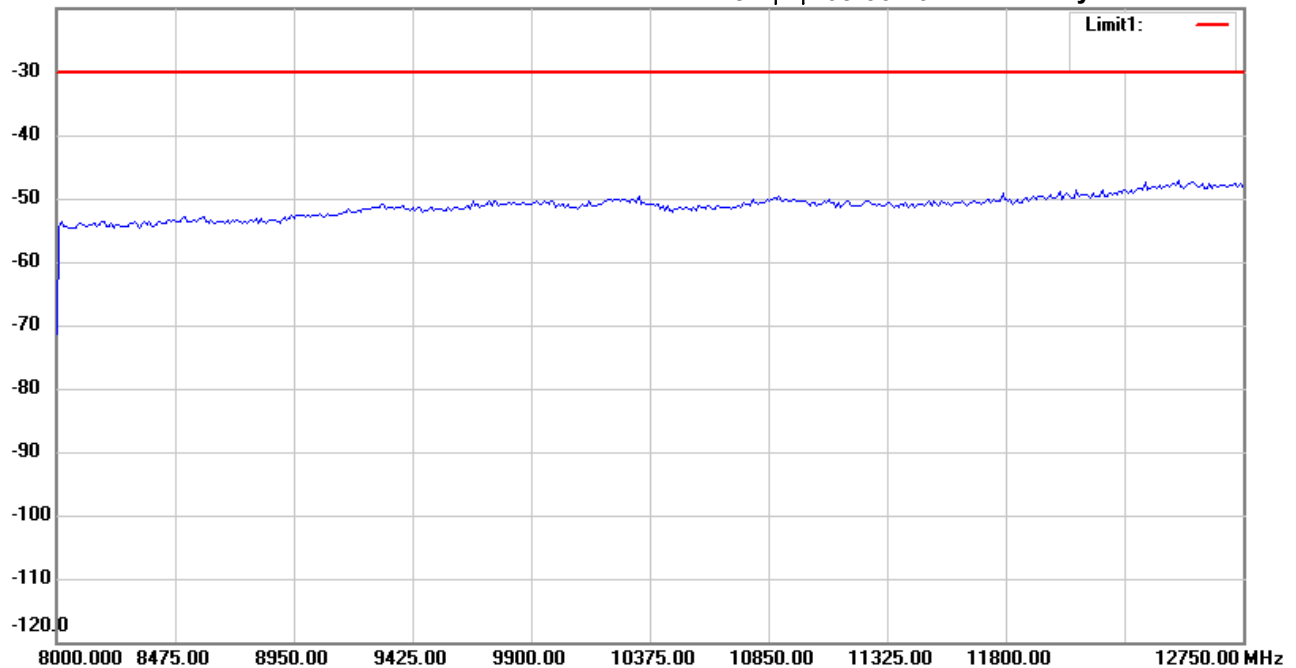
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:36:49

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #6

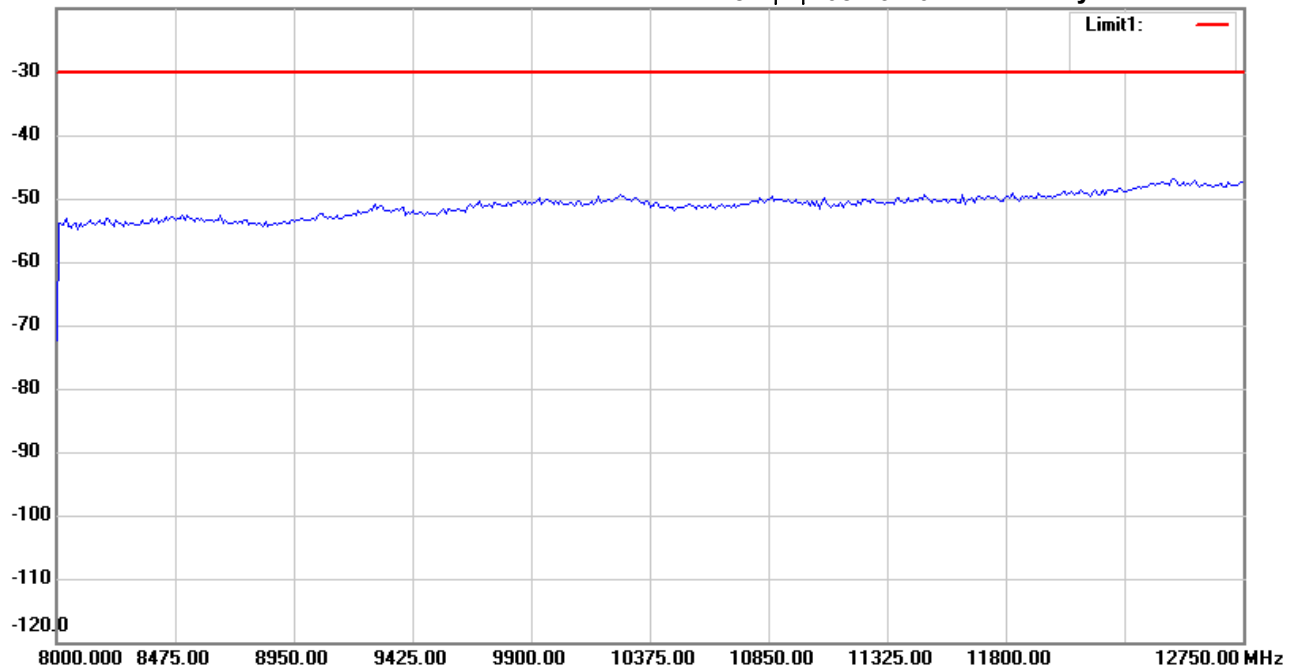
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:29:10

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 541.025MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	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: Rick

File :1

Data :#2

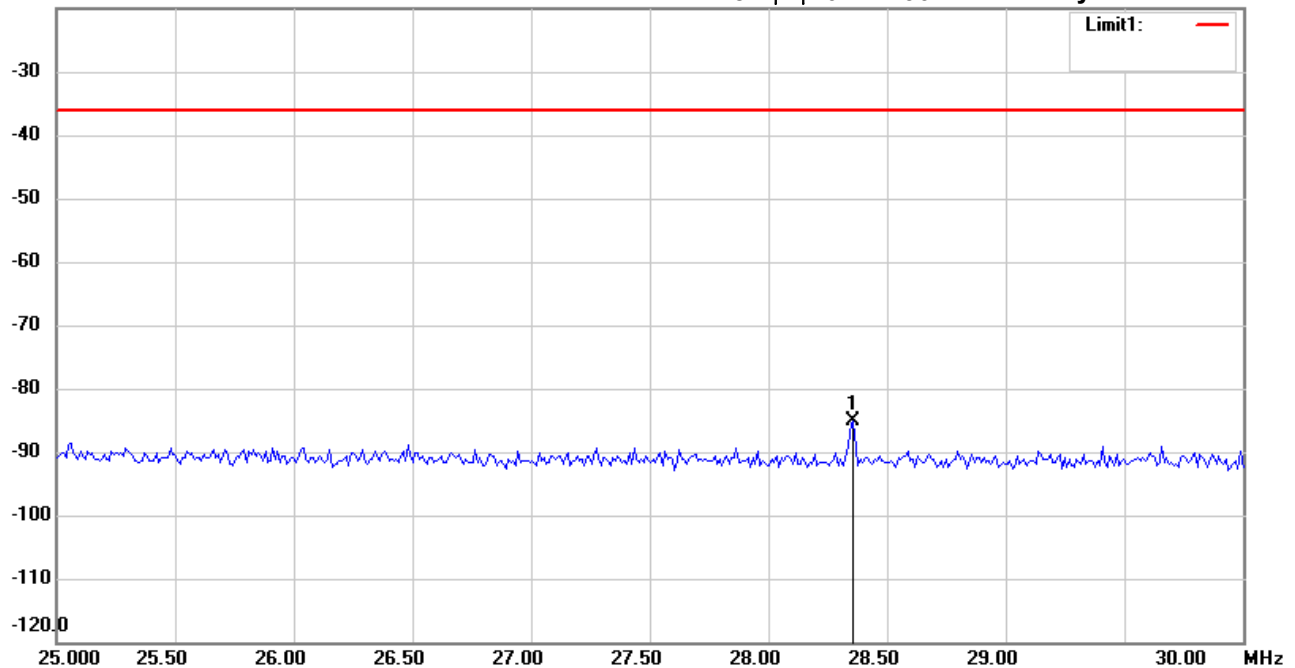
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:21:36

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-110.04	peak	24.91	-85.13	-36.00	150	200	-49.13	

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



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #4

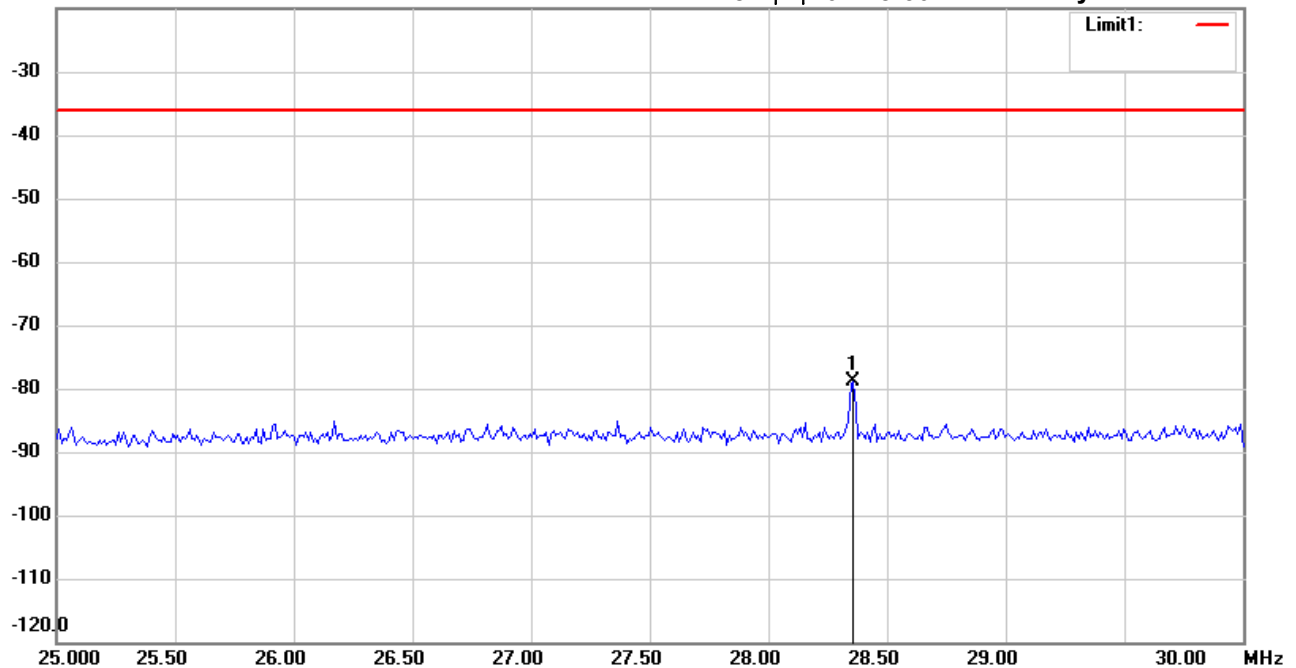
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:28:30

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-102.93	peak	24.07	-78.86	-36.00	150	70	-42.86	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#3

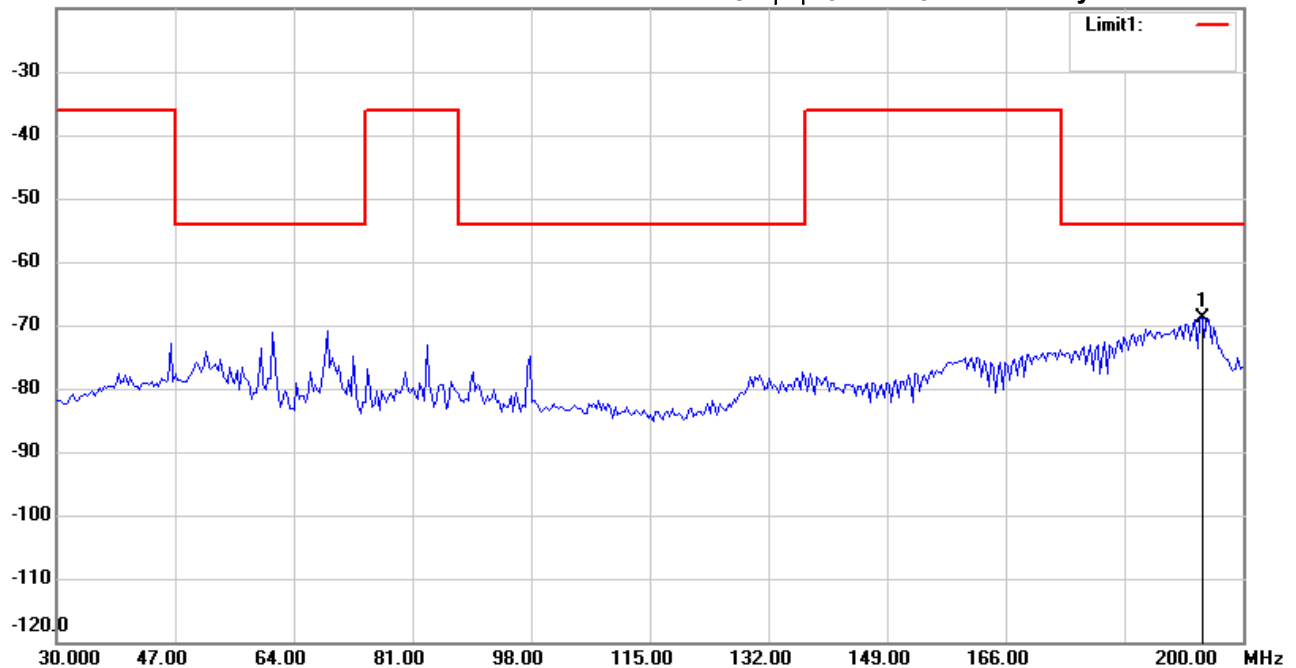
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:22:13

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	194.2084	-90.55	peak	21.65	-68.90	-54.00	150	80	-14.90	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#5

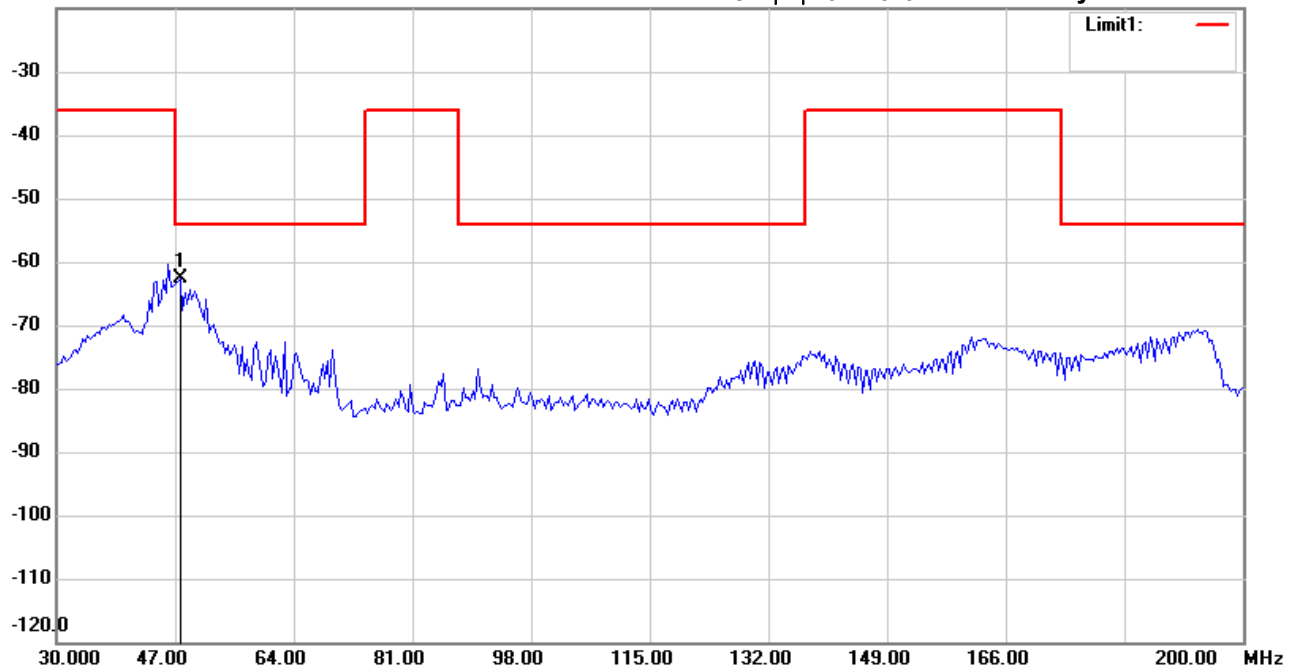
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:29:07

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	47.7154	-83.81	peak	21.19	-62.62	-54.00	150	40	-8.62	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #1

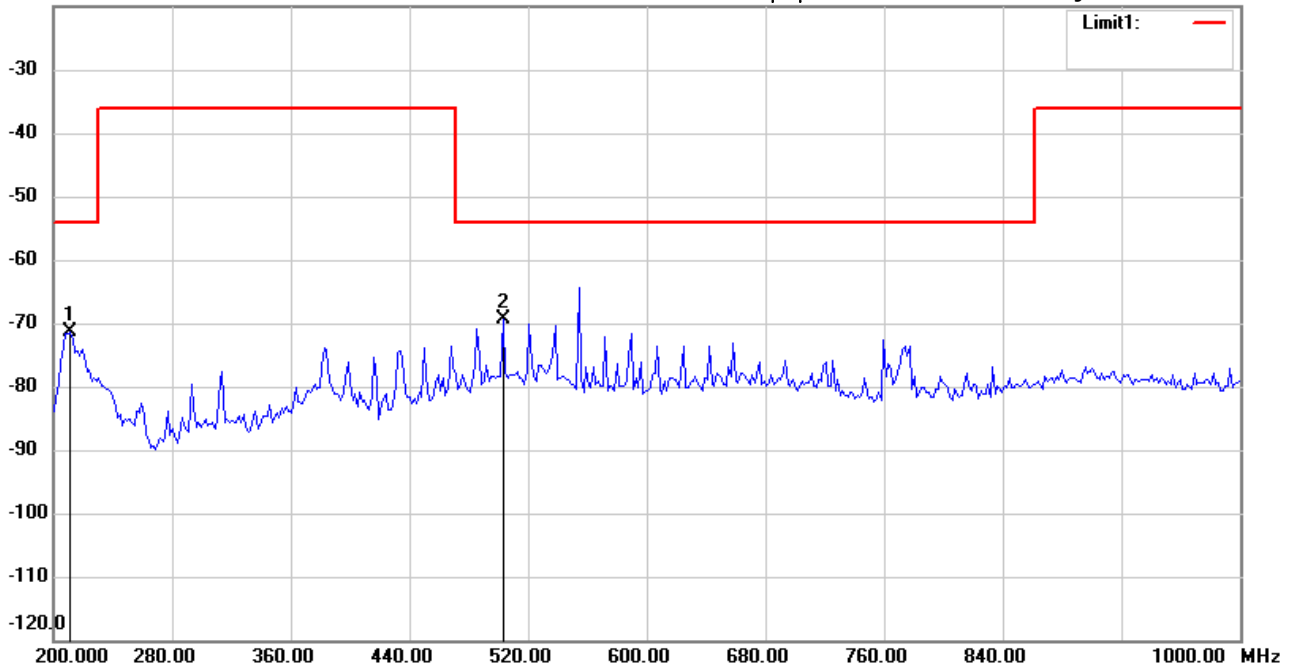
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:23:07

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	211.2223	-56.23	peak	-15.21	-71.44	-54.00	150	200	-17.44	
*	503.0060	-60.27	peak	-9.09	-69.36	-54.00	150	70	-15.36	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #3

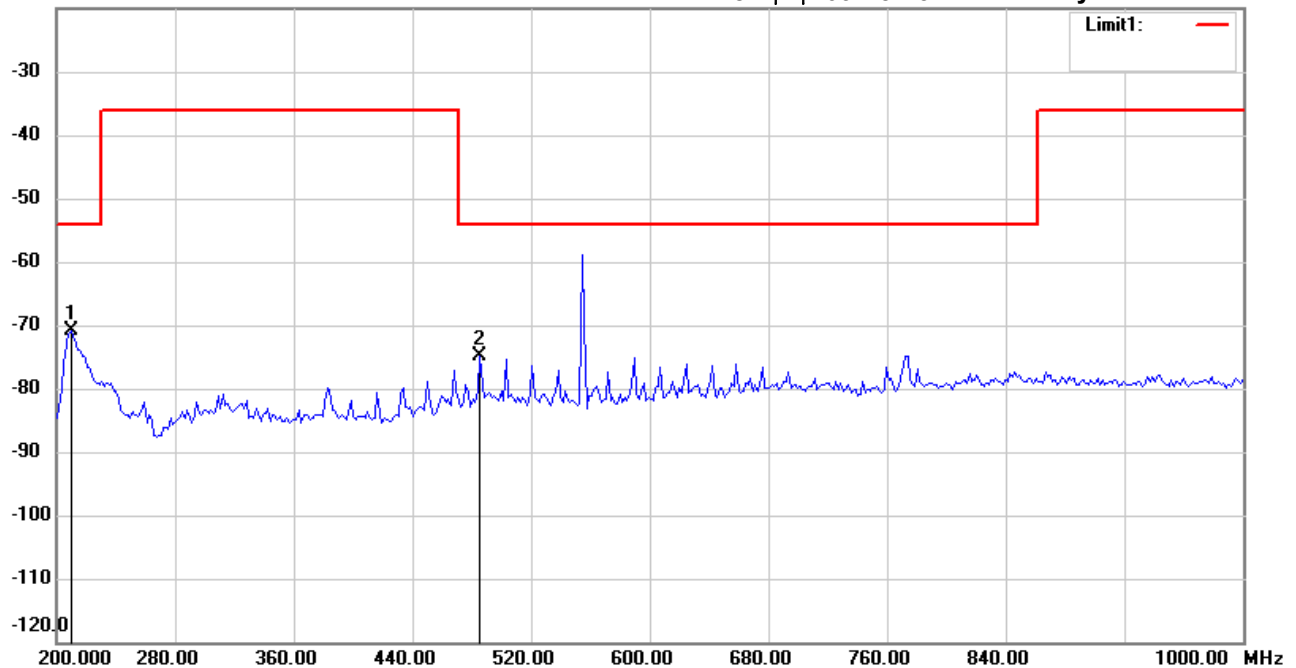
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:25:43

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	209.6192	-55.79	peak	-15.12	-70.91	-54.00	150	130	-16.91	
	485.3706	-67.66	peak	-7.26	-74.92	-54.00	150	200	-20.92	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #1

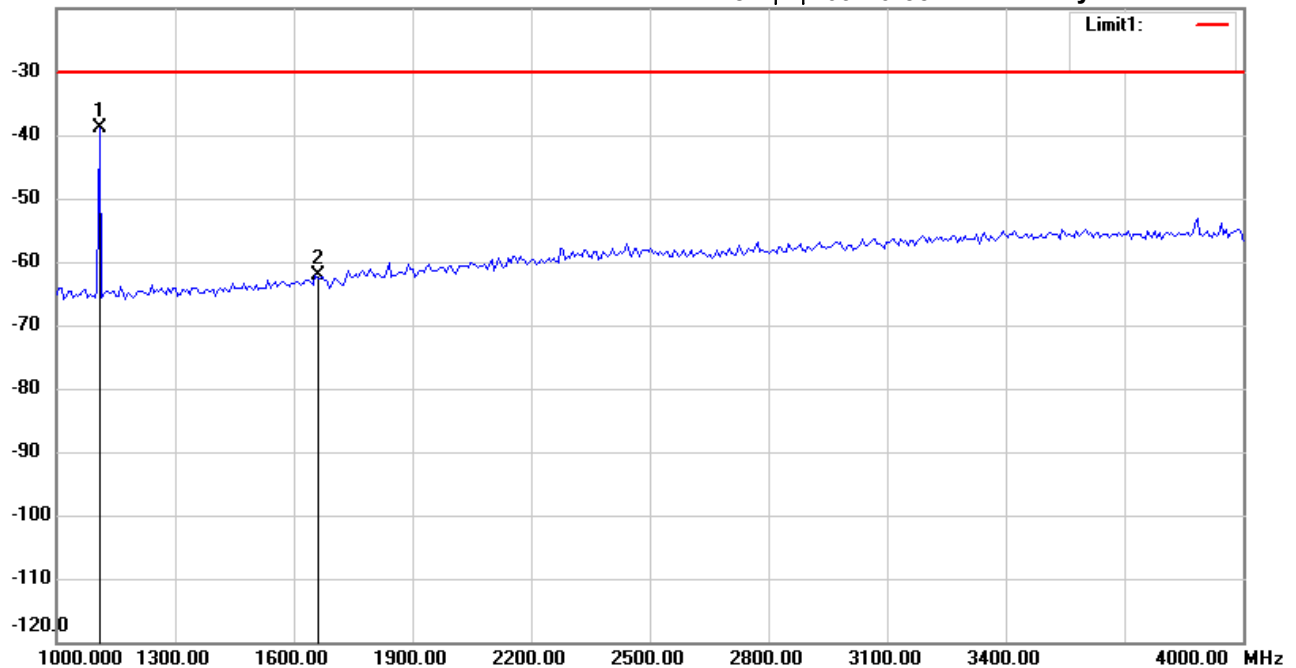
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:10:55

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1108.216	-36.80	peak	-2.16	-38.96	-30.00	150	110	-8.96	
	1655.311	-61.03	peak	-1.17	-62.20	-30.00	150	250	-32.20	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #4

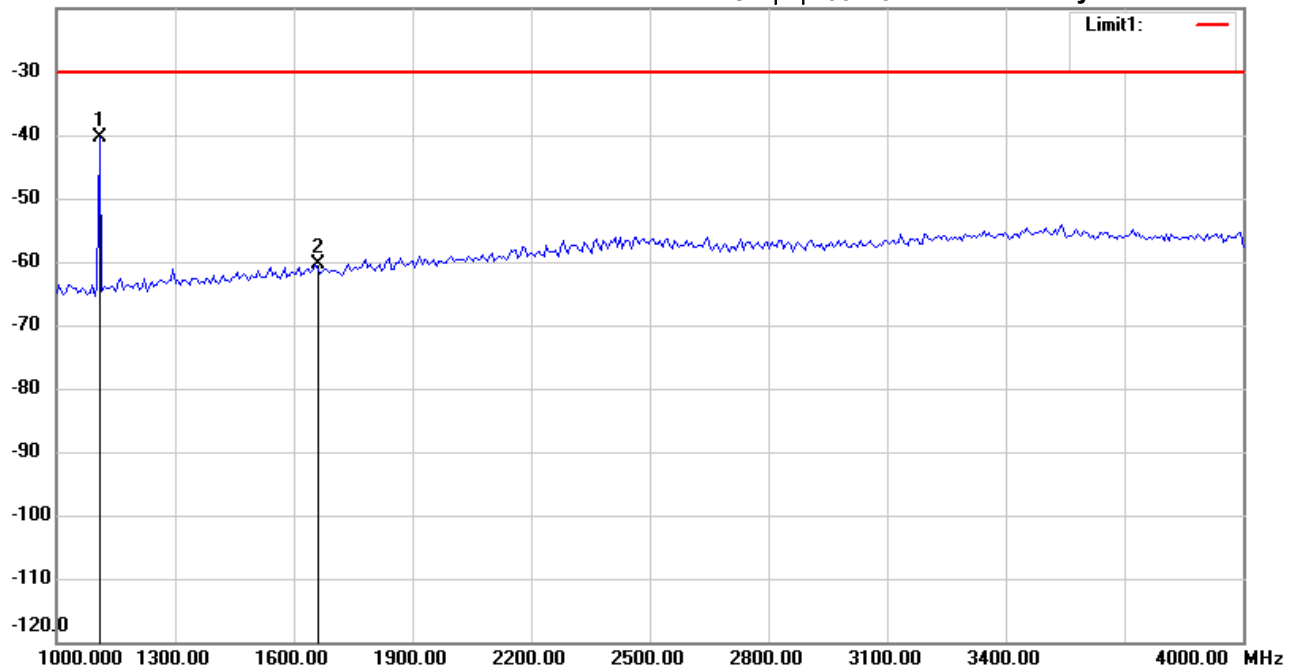
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:16:17

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1108.216	-38.83	peak	-1.44	-40.27	-30.00	150	300	-10.27	
	1655.311	-61.03	peak	0.55	-60.48	-30.00	150	140	-30.48	

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



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

Operator: Rick

File : 3

Data : #2

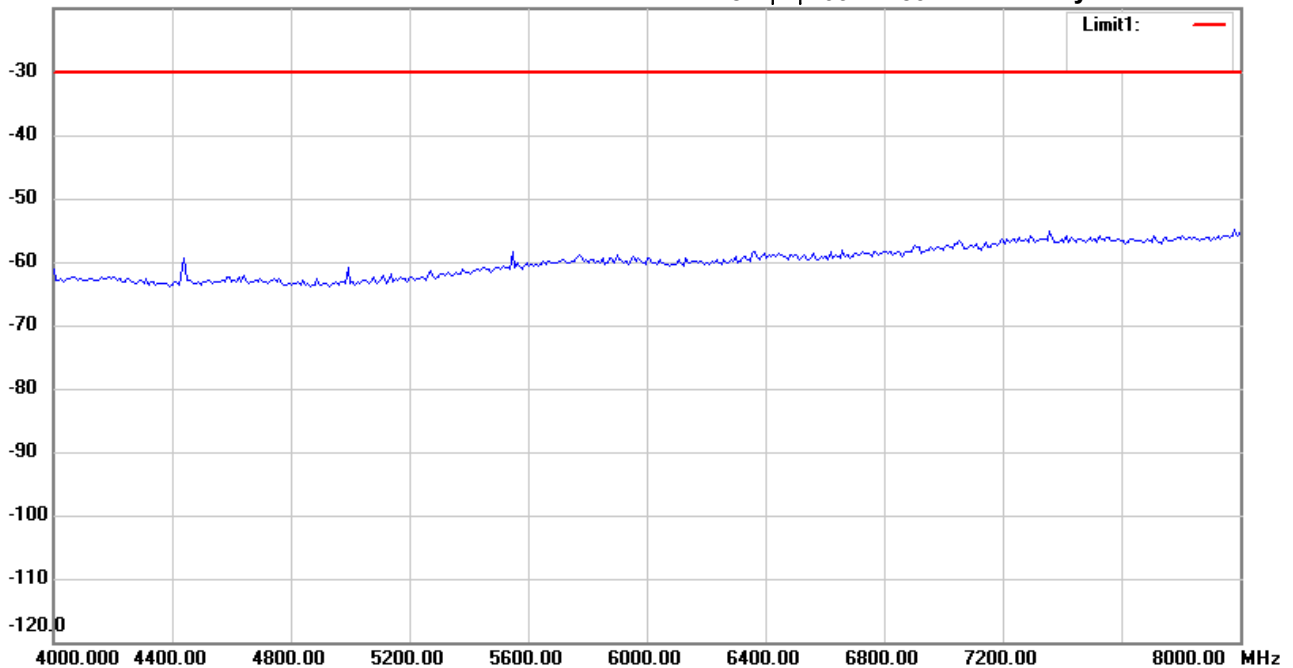
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:12:59

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	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: Rick

File : 3

Data : #5

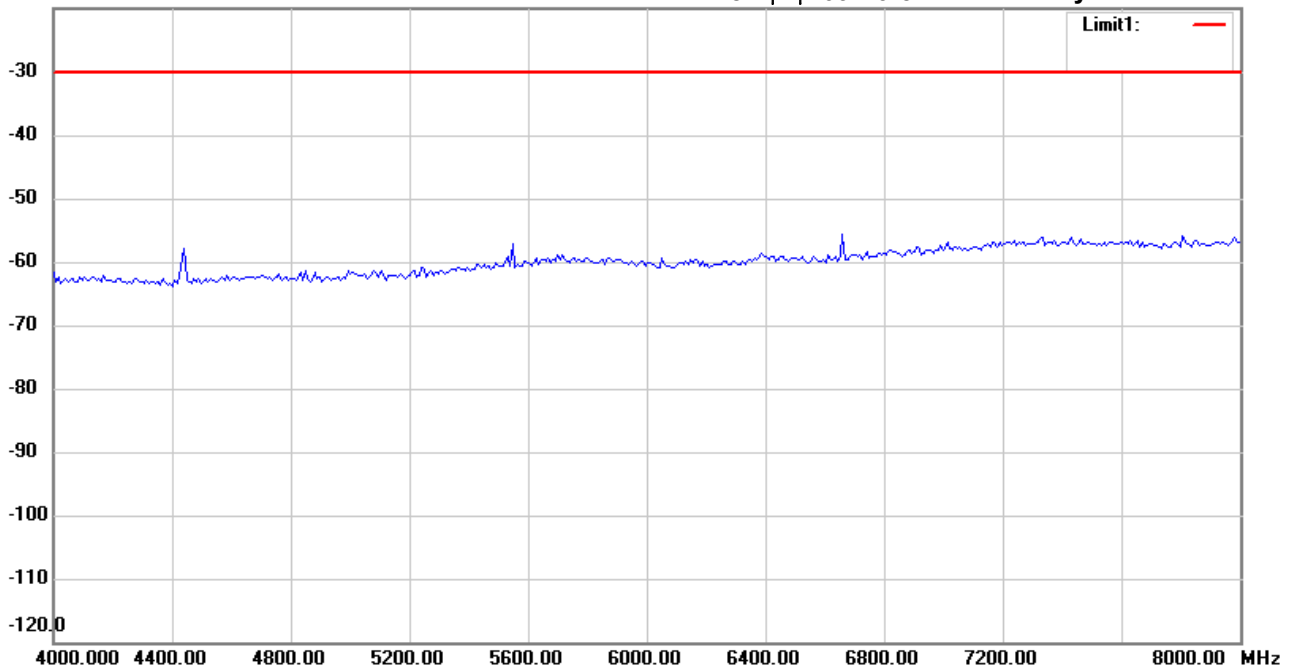
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:16:54

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

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



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Tel: +886-2-6606-8877
Fax: +886-2-6606-8879

Radiated Emission Measurement

Operator: Rick

File : 3

Data : #3

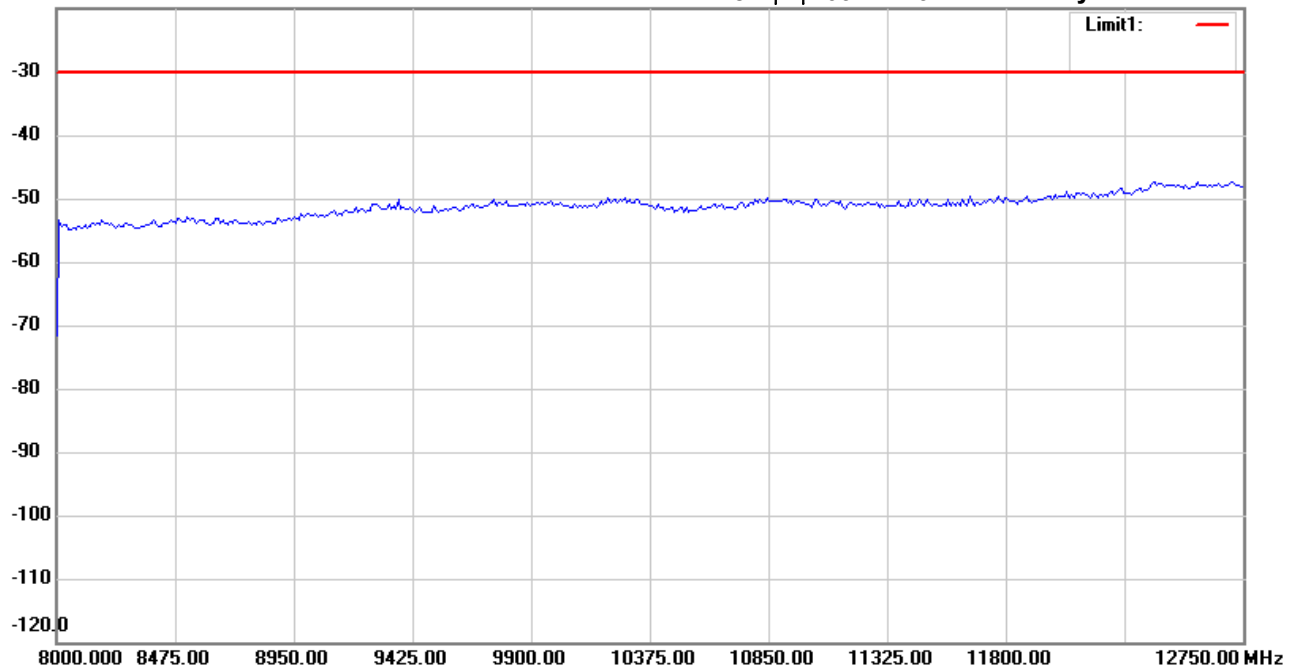
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:14:19

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

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



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #6

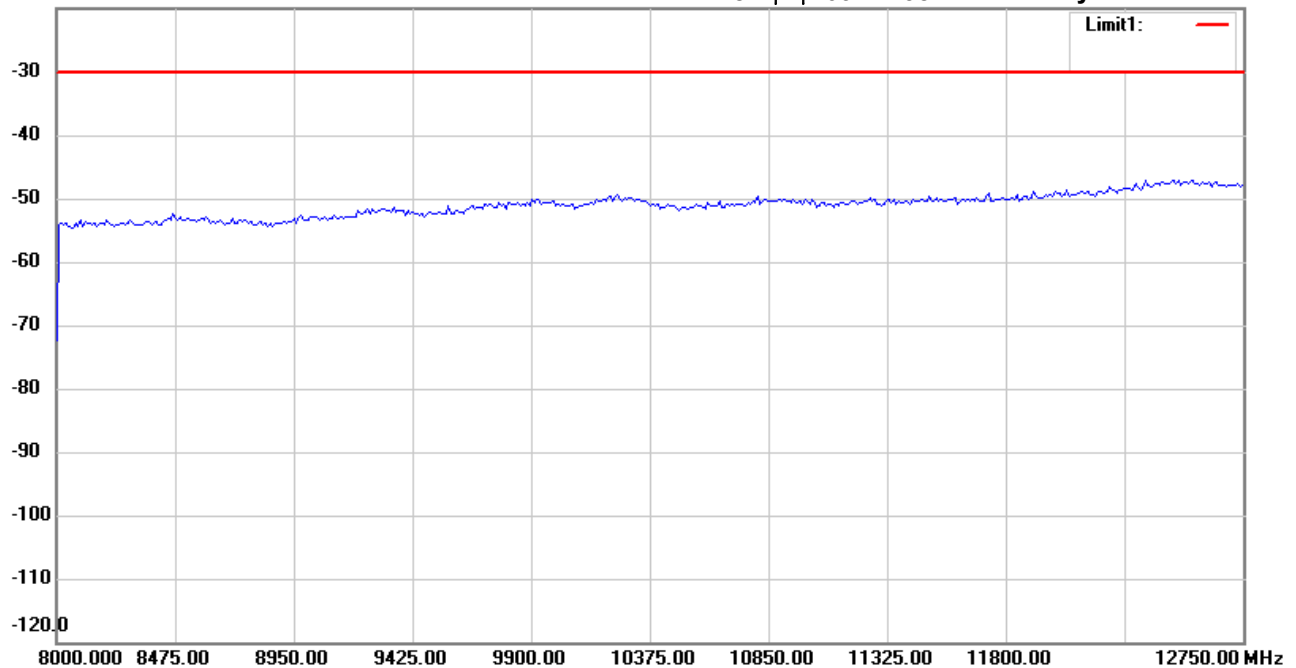
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:17:38

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 555.025MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #1

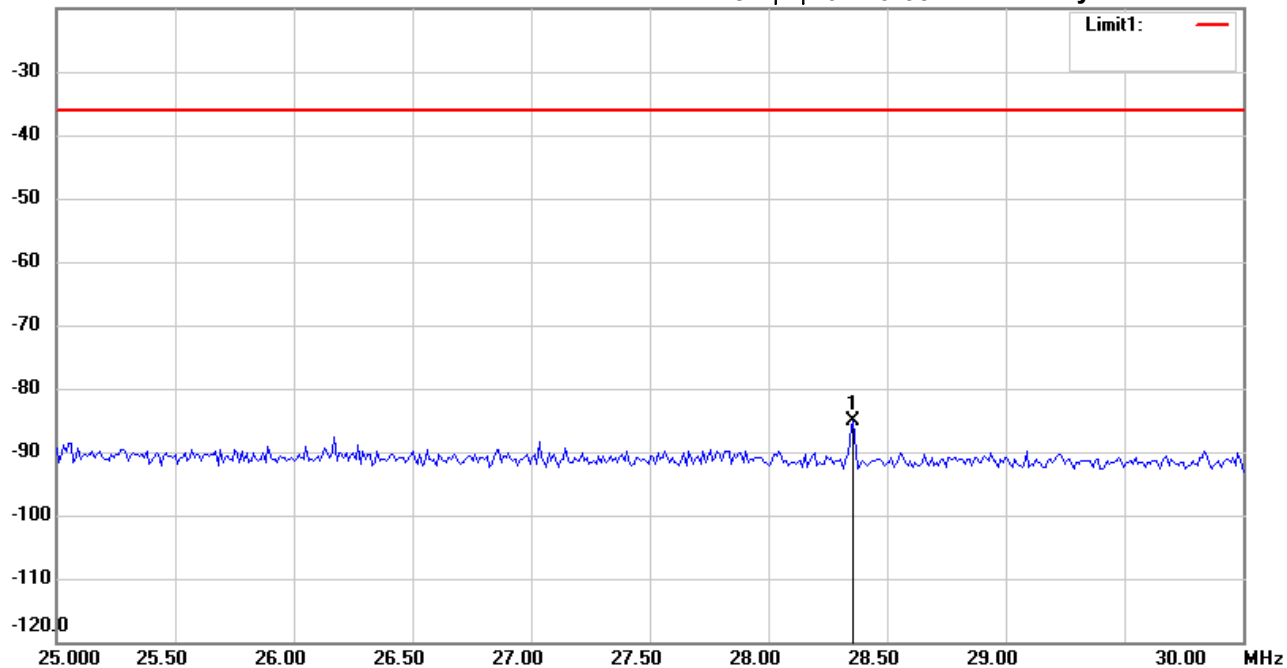
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:19:35

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-110.04	peak	24.91	-85.13	-36.00	150	200	-49.13	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#3

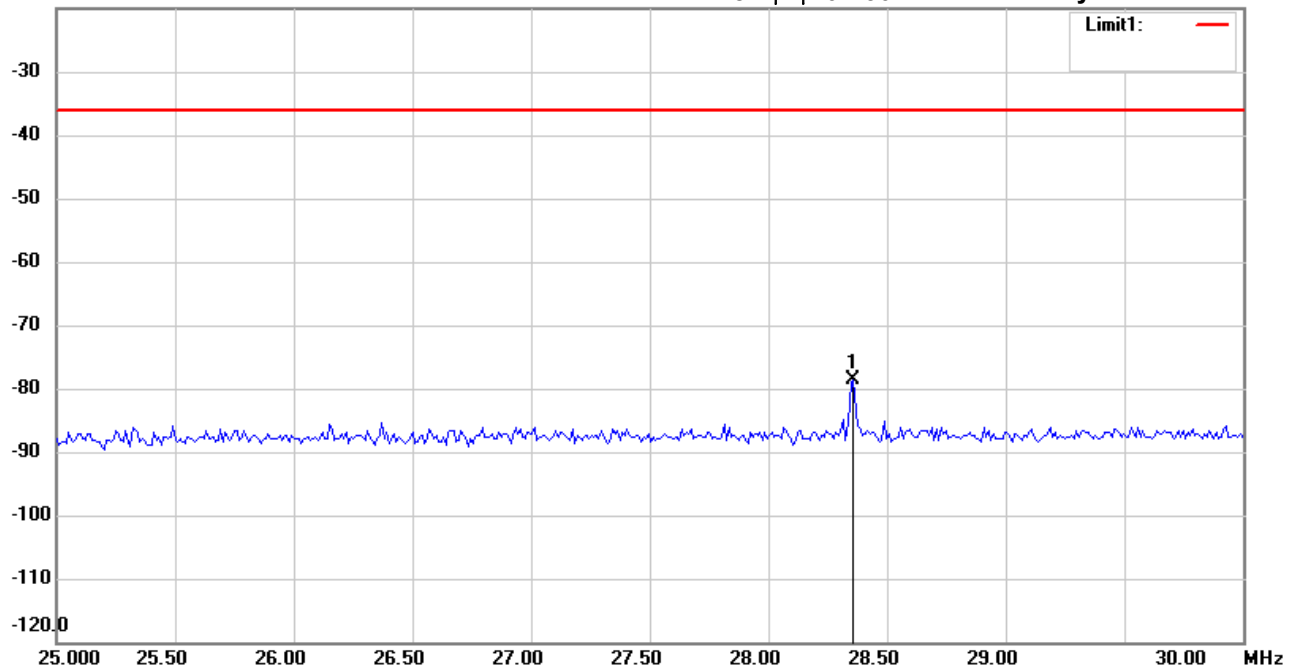
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:30:17

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	28.3567	-102.74	peak	24.07	-78.67	-36.00	150	210	-42.67	

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



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #2

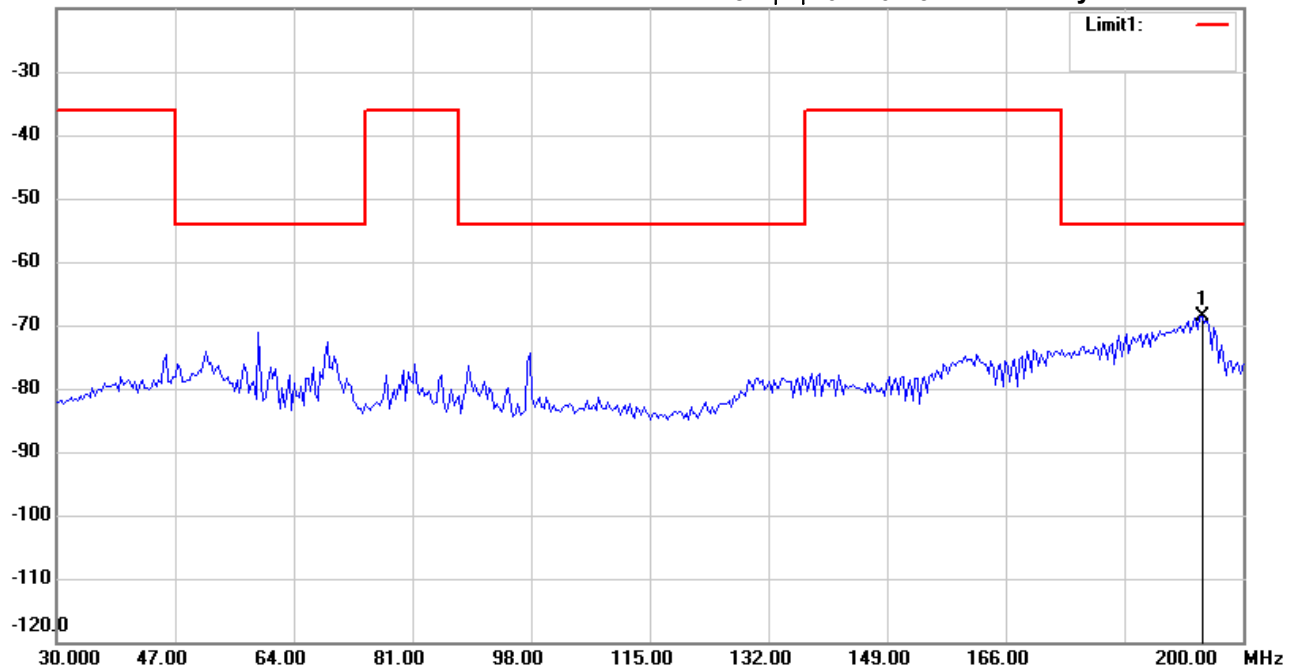
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:20:13

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	194.2084	-90.18	peak	21.65	-68.53	-54.00	150	200	-14.53	

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



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #4

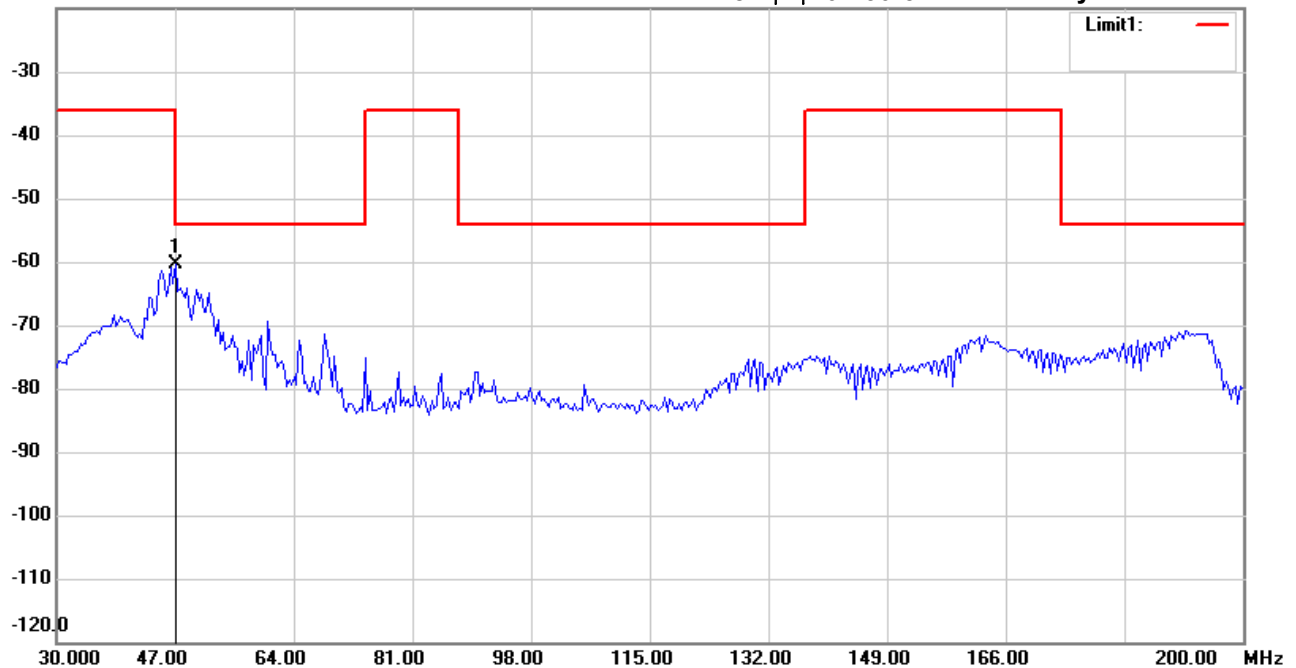
Date: 2019/4/12

Temperature: 24 °C

-20.0 dBm

Time: 下午 07:30:54

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	47.0340	-81.43	peak	21.15	-60.28	-54.00	150	200	-6.28	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #1

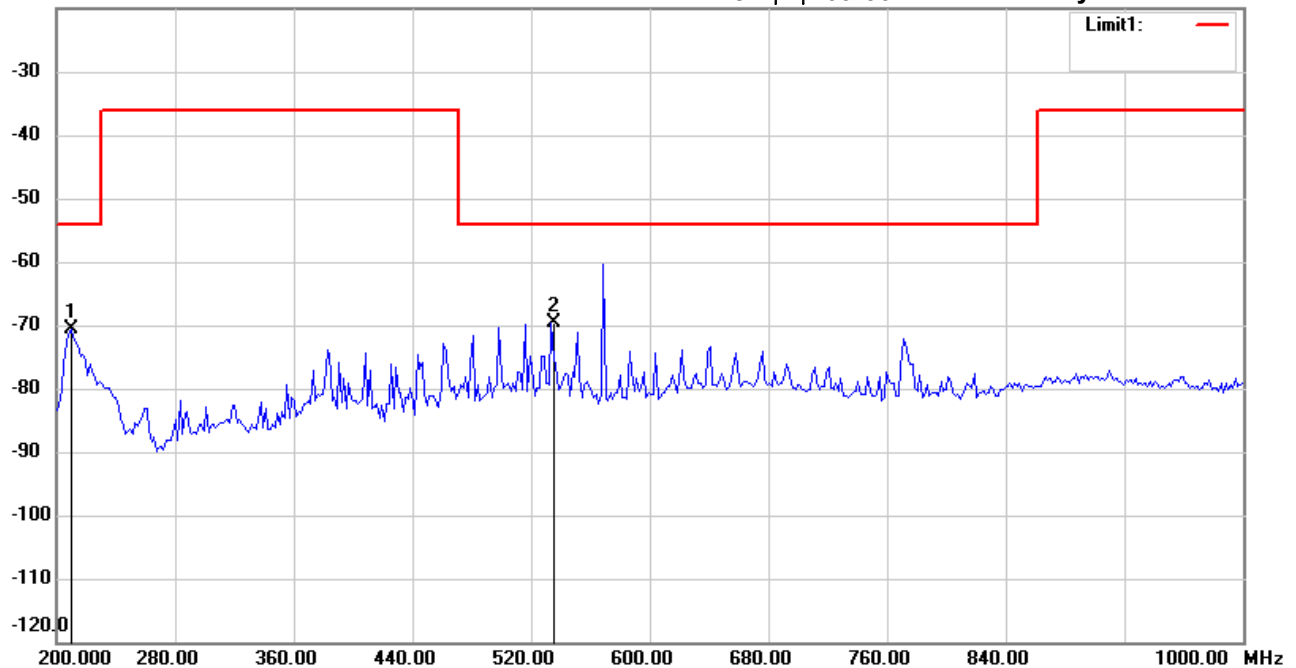
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:30:17

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	209.6192	-55.36	peak	-15.20	-70.56	-54.00	150	300	-16.56	
*	533.4670	-61.57	peak	-8.12	-69.69	-54.00	150	120	-15.69	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #2

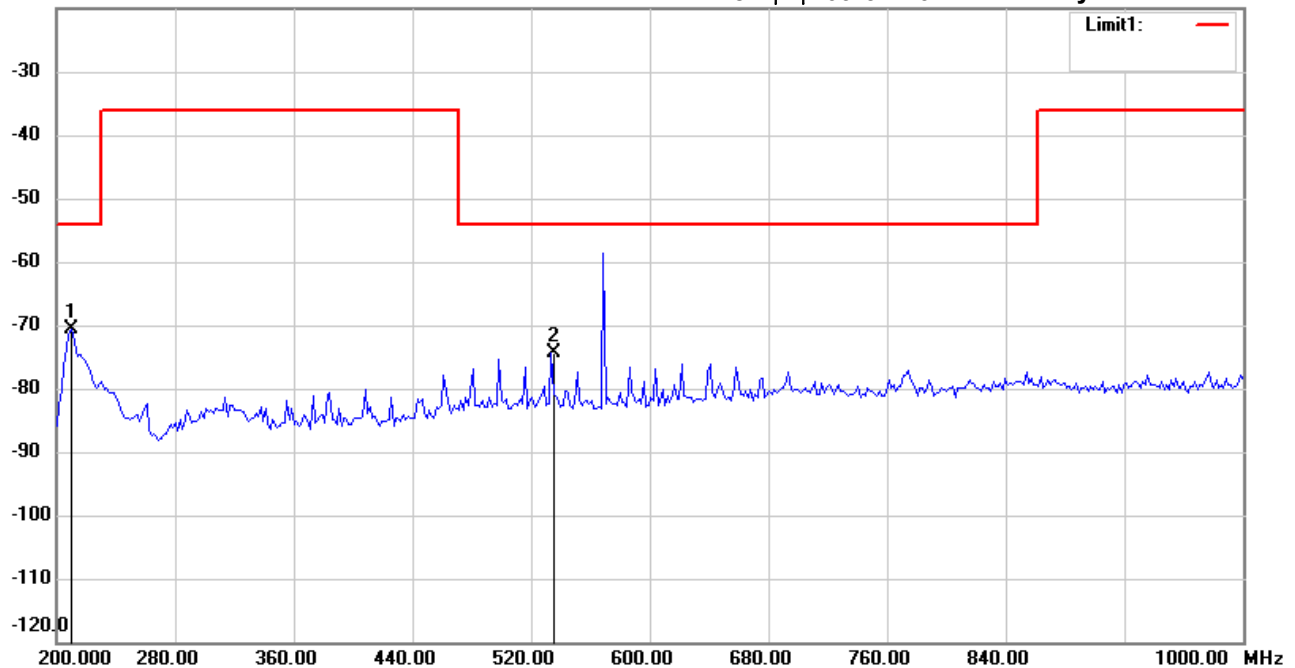
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:31:26

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	209.6192	-55.46	peak	-15.12	-70.58	-54.00	150	100	-16.58	
	533.4670	-67.93	peak	-6.33	-74.26	-54.00	150	210	-20.26	

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



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Radiated Emission Measurement

Operator: Rick

File :3

Data :#4

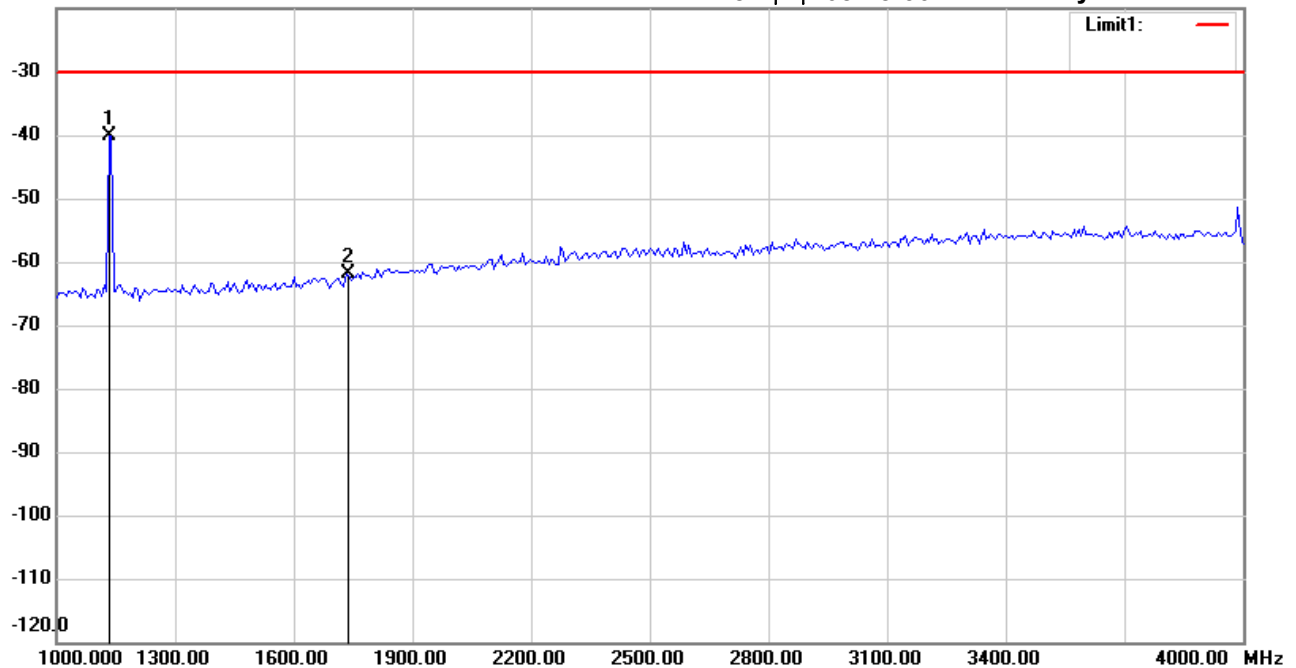
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:48:36

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1132.264	-38.02	peak	-2.16	-40.18	-30.00	150	100	-10.18	
	1733.467	-61.33	peak	-0.65	-61.98	-30.00	150	230	-31.98	

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



Address: 6F., No. 58, Ln 188, Ruey Kuang Rd, NeiHu, Taipei
Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #7

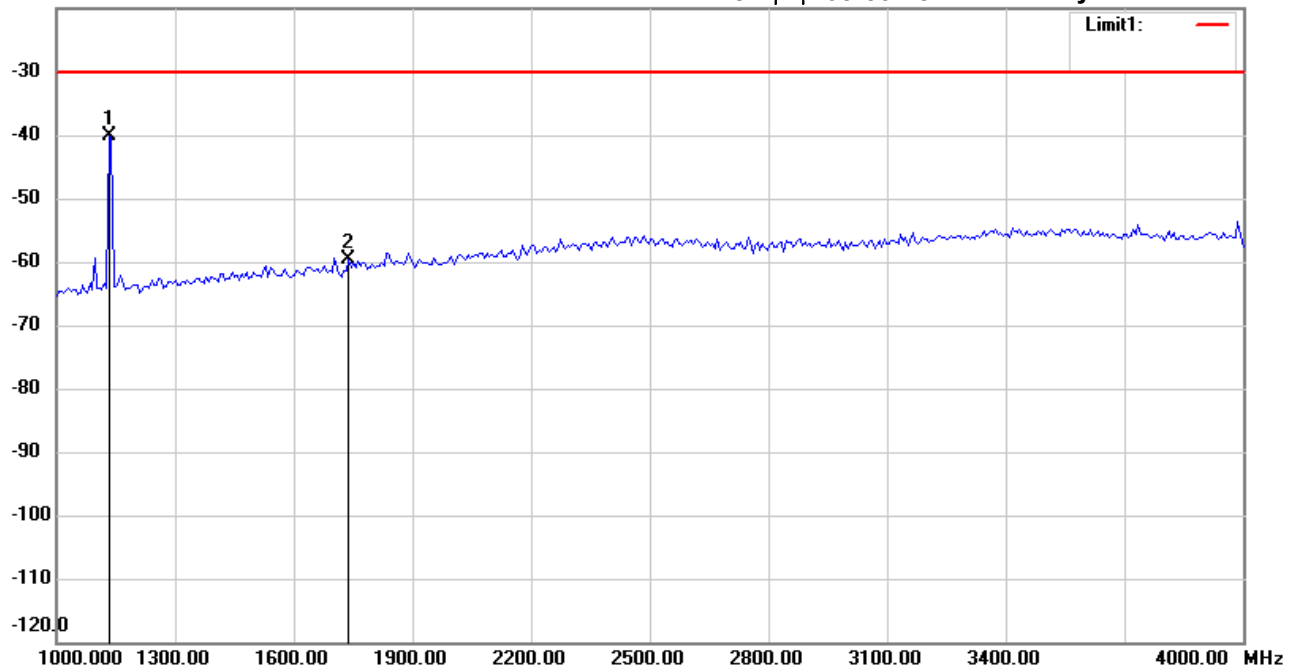
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:53:28

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1132.264	-38.87	peak	-1.37	-40.24	-30.00	150	100	-10.24	
	1739.479	-60.53	peak	0.98	-59.55	-30.00	150	230	-29.55	

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #5

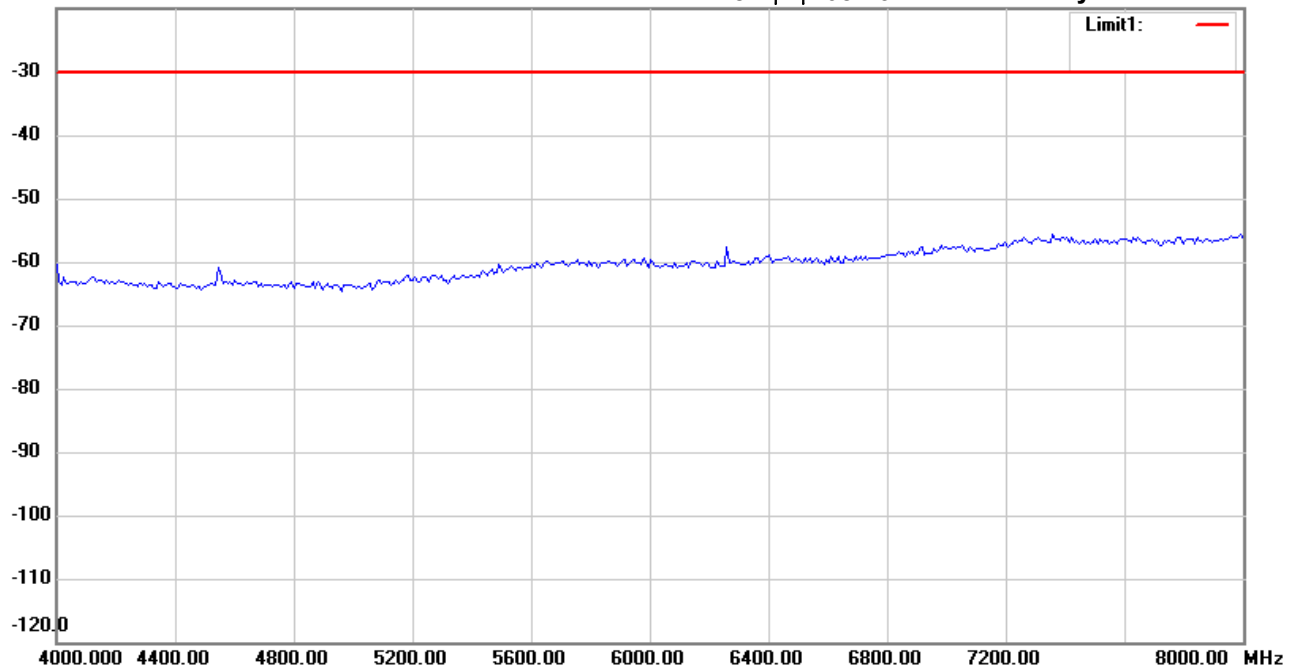
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:49:17

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

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



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Tel: +886-2-6606-8877
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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #8

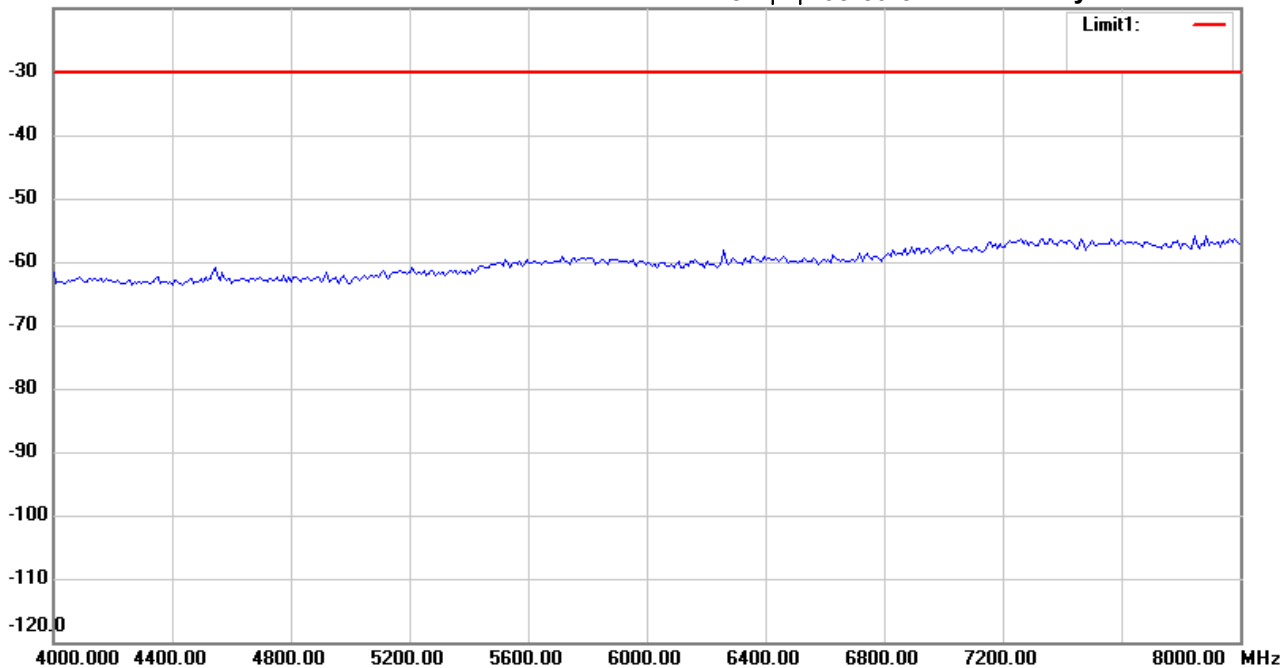
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:59:51

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Vertical*

Power : 120Va.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #6

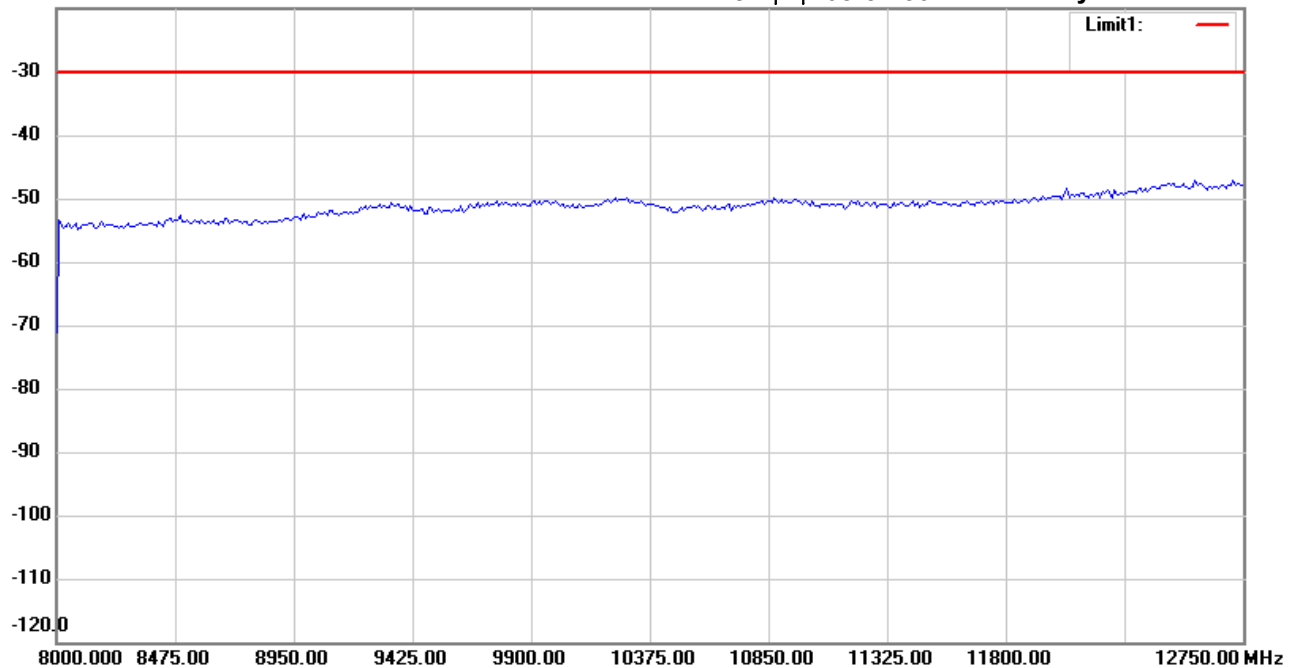
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 08:51:30

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

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

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



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Radiated Emission Measurement

Operator: Rick

File : 3

Data : #9

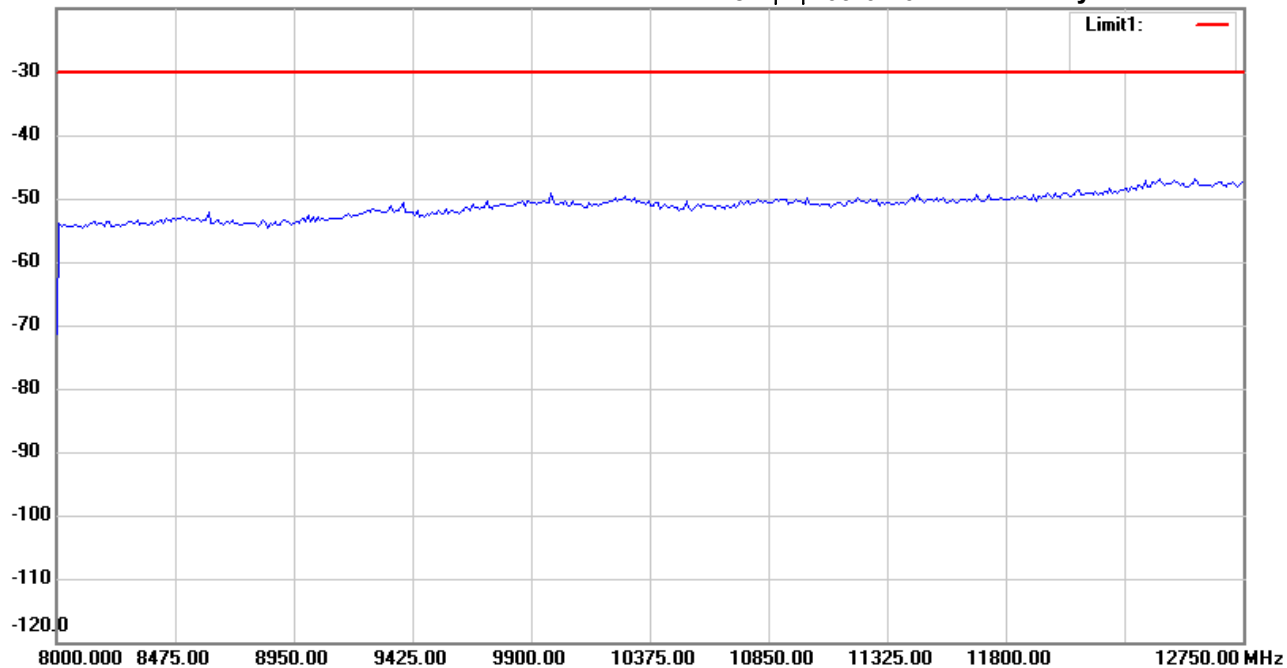
Date: 2019/4/11

Temperature: 24 °C

-20.0 dBm

Time: 下午 09:04:07

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865

M/N:

Test Mode : Tx 568.975MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

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

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



Radiated Emission Measurement

Operator: Rick

File :1

Data :#1

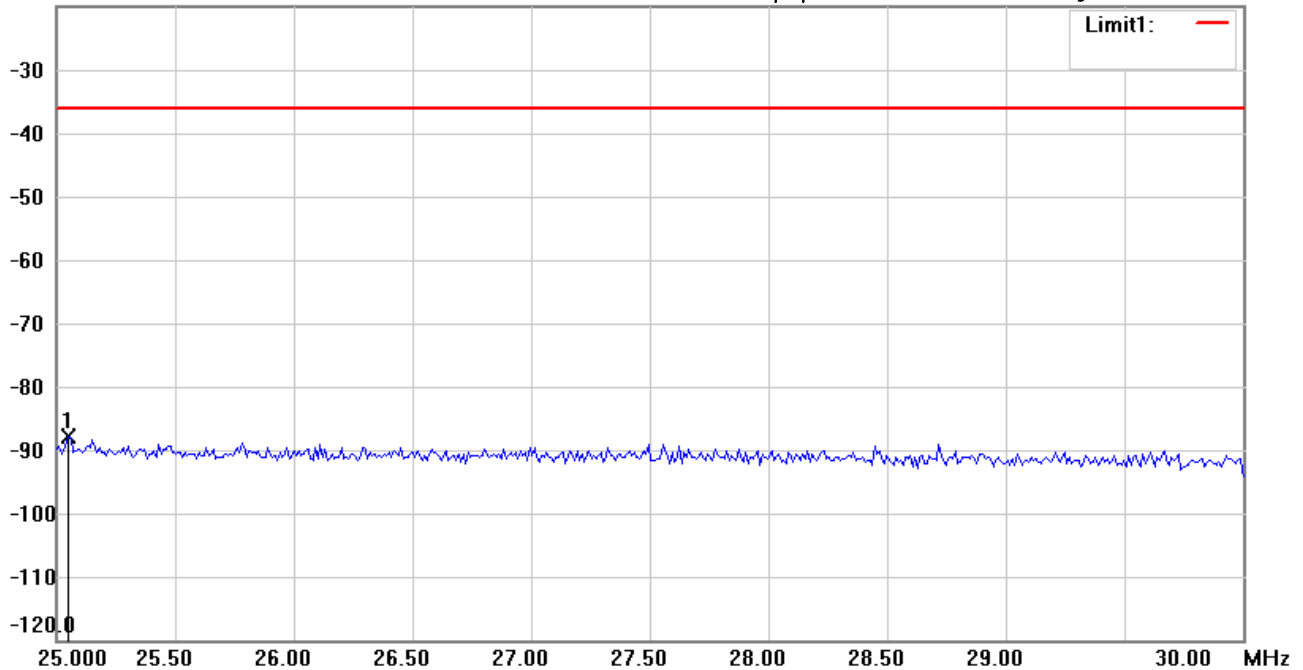
Date: 2020/3/20

Temperature: 24 °C

-20.0 dBm

Time: 下午 03:18:16

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	25.0501	-113.59	peak	25.69	-87.90	-36.00	150	170	-51.90	



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Radiated Emission Measurement

Operator: Rick

File : 1

Data : #3

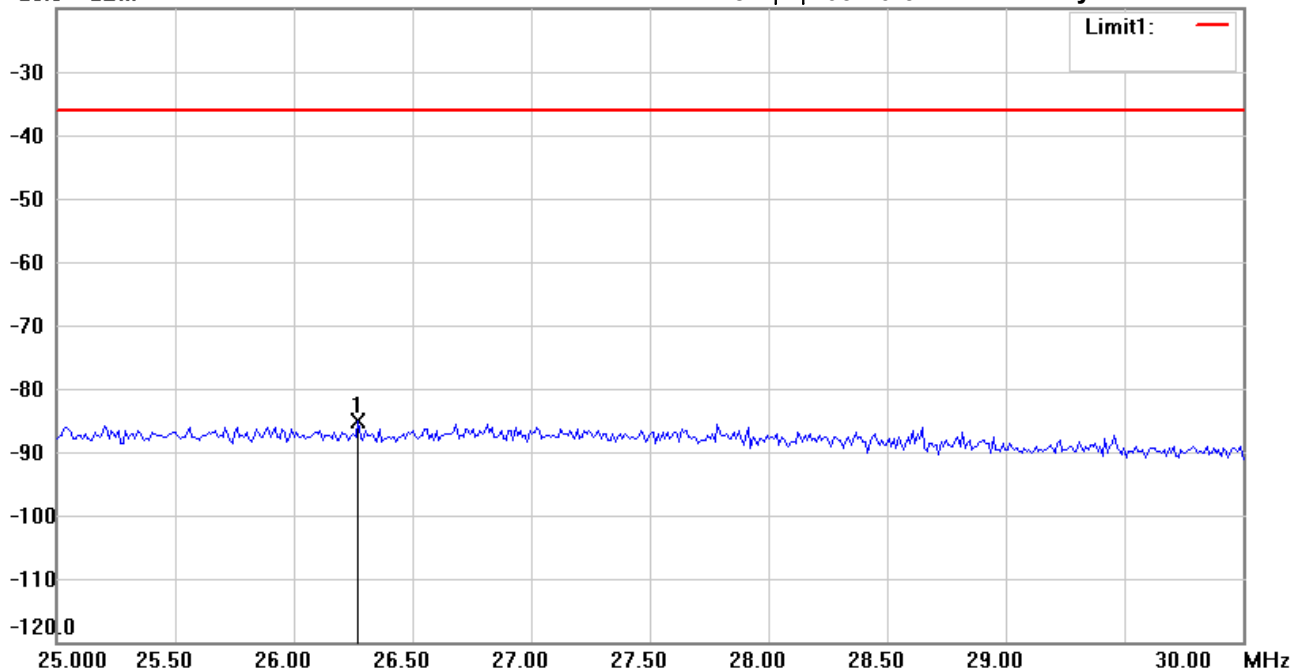
Date: 2020/3/20

Temperature: 24 °C

-20.0 dBm

Time: 下午 03:20:37

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	26.2725	-109.51	peak	24.43	-85.08	-36.00	150	100	-49.08	

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



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Radiated Emission Measurement

Operator: Rick

File :1

Data :#2

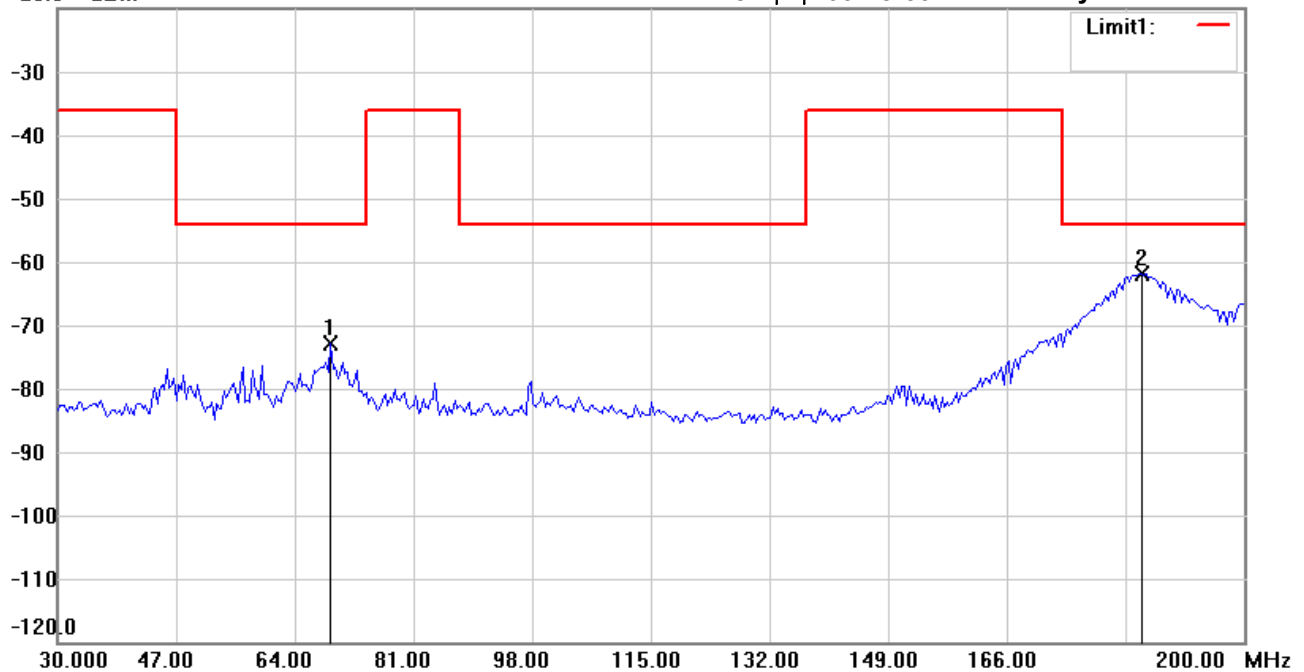
Date: 2020/3/20

Temperature: 24 °C

-20.0 dBm

Time: 下午 03:18:53

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: **Horizontal**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	69.1783	-94.46	peak	21.52	-72.94	-54.00	150	200	-18.94	
*	185.3507	-83.41	peak	21.57	-61.84	-54.00	150	140	-7.84	

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



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Radiated Emission Measurement

Operator: Rick

File : 1

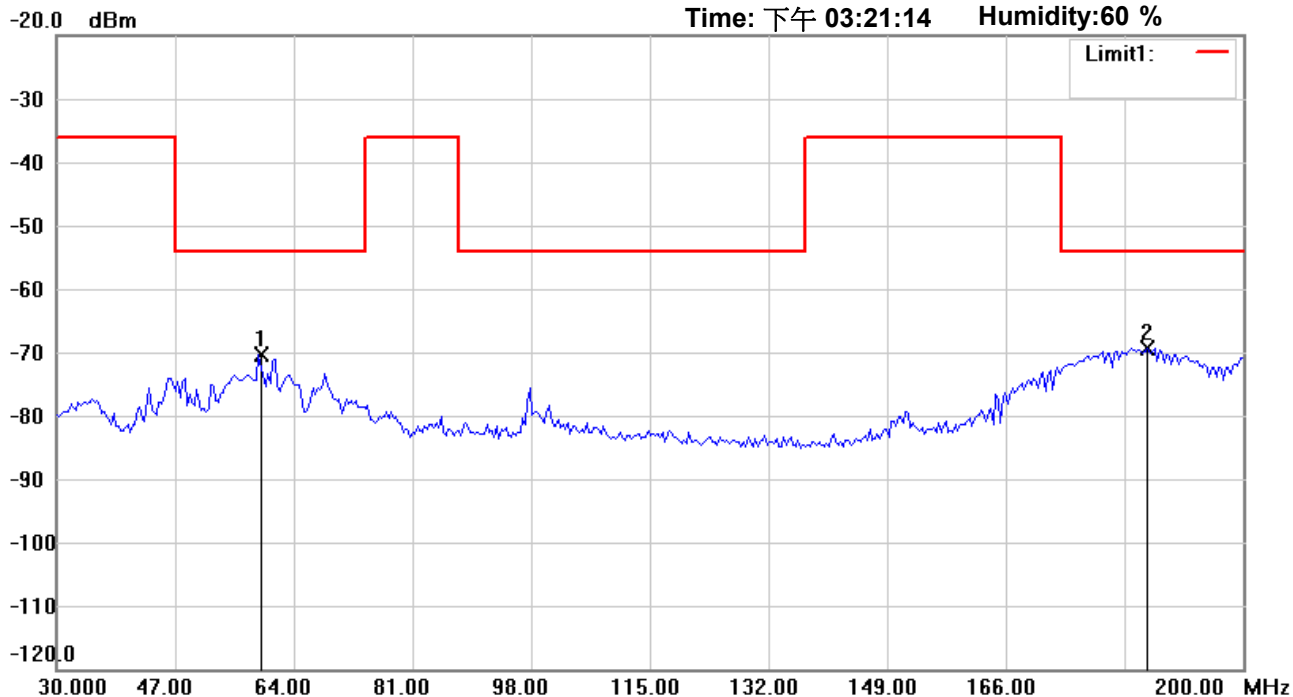
Data : #4

Date: 2020/3/20

Temperature: 24 °C

Time: 下午 03:21:14

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: **Vertical**

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	58.9580	-91.93	peak	21.57	-70.36	-54.00	150	120	-16.36	
*	186.3727	-91.51	peak	22.21	-69.30	-54.00	150	300	-15.30	

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



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

Operator: Rick

File : 2

Data : #1

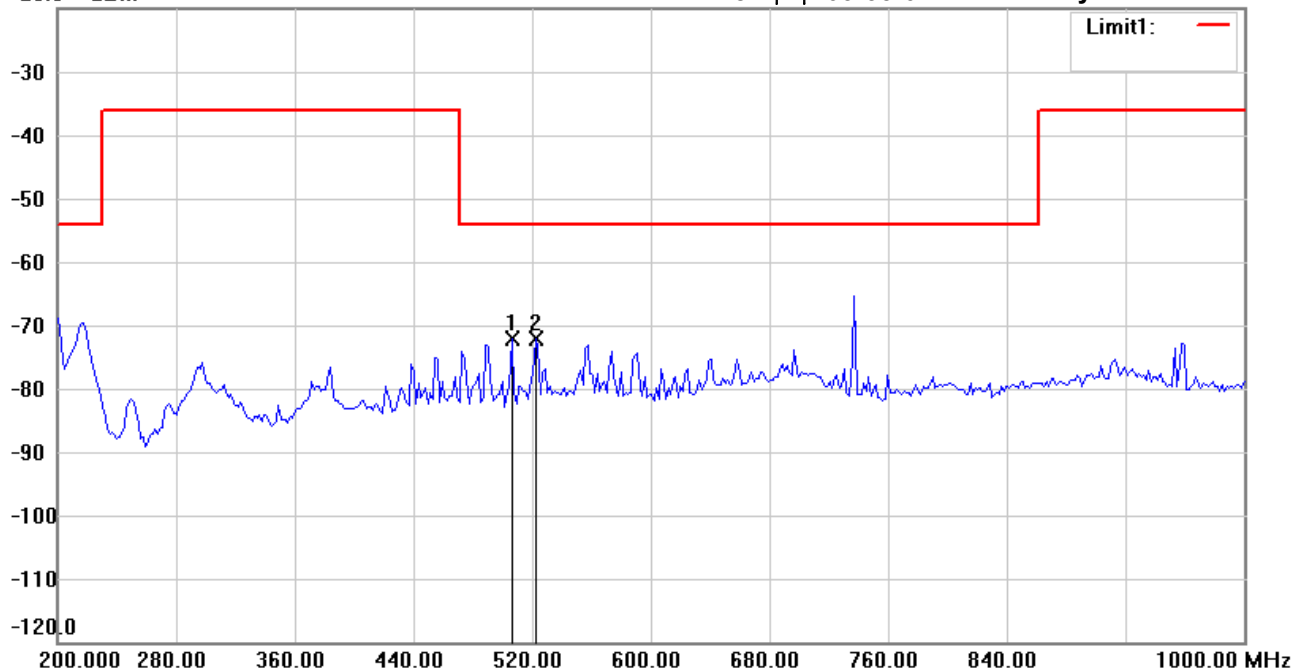
Date: 2020/3/20

Temperature: 24 °C

-20.0 dBm

Time: 下午 03:35:01

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: *Horizontal*

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	506.2124	-63.10	peak	-8.99	-72.09	-54.00	150	300	-18.09	
	522.2445	-63.64	peak	-8.48	-72.12	-54.00	150	120	-18.12	

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



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Radiated Emission Measurement

Operator: Rick

File : 2

Data : #2

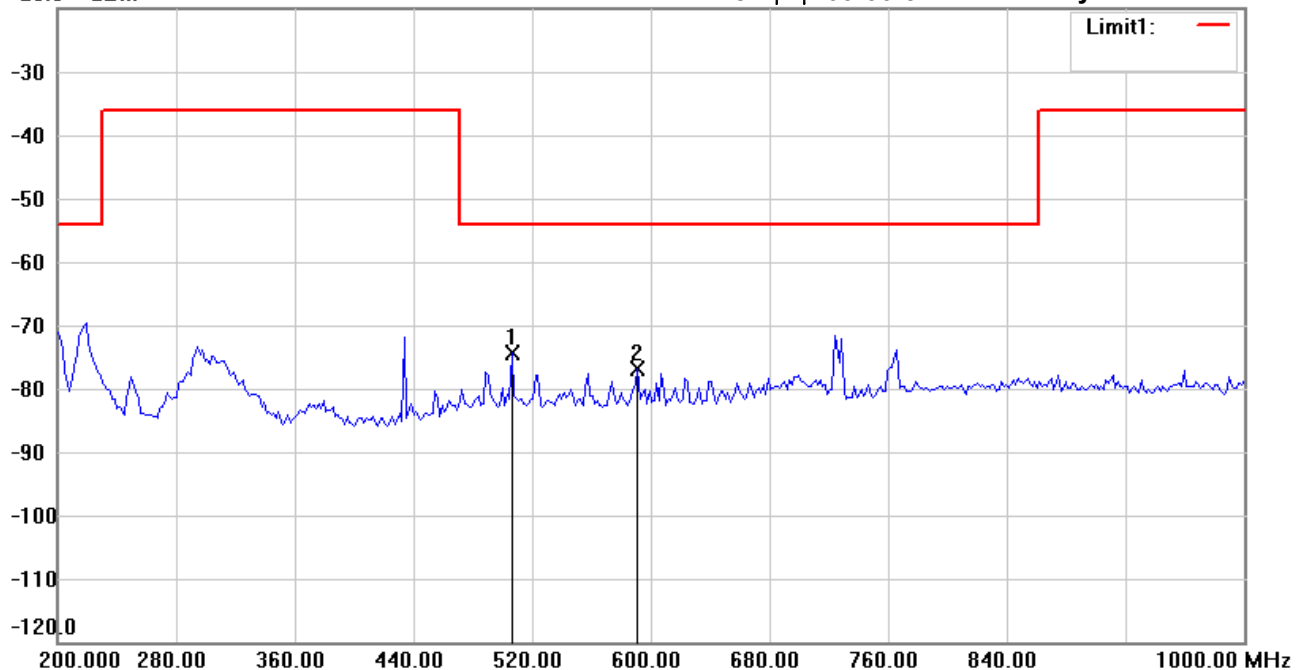
Date: 2020/3/20

Temperature: 24 °C

-20.0 dBm

Time: 下午 03:36:52

Humidity: 60 %



Site : Chamber

Condition : ETSI EN300_422-TX_Spurious_OP

EUT : W6M21903-18865-R1

M/N:

Test Mode : TX 541.025MHz

Note :

Polarization: Vertical

Power : 120Va.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	506.2124	-67.83	peak	-6.64	-74.47	-54.00	150	300	-20.47	
	591.1824	-71.16	peak	-5.68	-76.84	-54.00	150	120	-22.84	

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