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. TW1477

A2LA Accredited No.: 2732.01





Report No.: W6M21903-18865-C-1

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



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1 General Information

communications equipment.

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 is performance generally conforms to representative cases of

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:

May 16, 2019]	Rick Chen	Rick Chen.
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

May 16, 2019		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. TW1477

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: April 08, 2019

Date of test: from April 09, 2019 to May 16, 2019

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: adaptor: I/P: 100~240V~50/60Hz, 0.4A

O/P: 12V, 1.0A

Operation modes: Simplex

Manufacturer: (if applicable)

 Name:
 ./.

 Street:
 ./.

 Town:
 ./.

 Country:
 ./.

1.6 Test standards

Technical standard: FCC RULES PART 15 SUBPART C § 15.236 (2018-10)

FCC ID: Y4O-TWR3 **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 in 3 were ascertained in the course of the tests	
performed.	

2.2 Test environment

Relative humidity content: 20 ... 75 %

Power supply: adaptor: I/P: 100~240V~50/60Hz, 0.4A

O/P: 12V, 1.0A

Air pressure: 86-103 KPa

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty: AMN: 1.30 dB Voltage probe: 1.36 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty: 0.009-30 MHz: 2.02 dB 30-1000 MHz: 3.49 dB 1-18 GHz: 3.01 dB 18-40 GHz: 2.43 dB
Estimation Result of Uncertainty of Bandwidth Measurement 20 dB Bandwidth, Occupied bandwidth, Channel bandwidth, Necessary Bandwidth	Expanded Uncertainty: 0.45 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement Frequency stability	Expanded Uncertainty: 6.11 Hz
Estimation Result of Uncertainty of EIRP Measurement	Expanded Uncertainty: 30-200MHz: 2.50 dB 200-1000MHz: 2.50 dB 1-18GHz: 3.38 dB 18-40GHz: 3.04 dB

The decision rule is: Measurement uncertainty is not taken into account.



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2.3 Test Equipment List

No.	Test equipment	Туре	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2018/5/30	2019/5/29
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	2018/11/1	2019/10/31
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2018/8/21	2019/8/20
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function	on Test
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2018/7/13	2019/7/12
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2018/9/25	2019/9/24
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2018/7/16	2019/7/15
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2018/5/30	2019/5/29
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2018/5/21	2019/5/20
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Functi	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2018/7/13	2019/7/12
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2018/7/12	2019/7/11
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2019/4/2	2020/4/1
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2019/1/29	2020/1/28
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	2019/4/22	2020/4/21
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-te	st Use
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2019/2/27	2020/2/26
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2019/3/5	2020/3/4
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2019/2/27	2020/2/26
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2019/3/15	2020/3/14
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function	on Test
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function	on Test
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2018/9/17	2019/9/16
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2018/9/18	2019/9/17
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2019/5/9	2020/5/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2019/2/22	2020/2/21
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Functi	on test
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2019/1/15	2020/1/14



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ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Functi	on test
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2018/5/29	2019/5/28
ETSTW-RE 125	5GHz Notch filter	5NSL11- 5200/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 126	5GHz Notch filter	5NSL12- 5800/E221.3-O/O	1	K&L Microwave	2018/8/8	2019/8/7
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2019/2/26	2020/2/25
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2018/8/8	2019/8/7
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-te	st Use
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2019/3/15	2020/3/14
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2019/4/2	2020/4/1
ETSTW-RE 151	Thermohygrometer	608-h1	45104376	TESTO	2018/8/17	2019/8/16
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2019/5/10	2020/5/9
ETSTW-EMS 008	Exposure Level Tester	ELT-400	G-0009	Narda	2018/7/17	2019/7/16
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2019/3/5	2020/3/4
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2019/3/26	2020/3/25
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2018/10/19	2019/10/18
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849- 822/851-40 /12+9SS	3	WI	2019/1/14	2020/1/13
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748- 1743/1752-32/5SS	1	WI	2019/1/14	2020/1/13
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5 -1875.5/1884.5- 32/5SS	3	WI	2019/1/14	2020/1/13
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1- 904.25-50/8SS	1	WI	2019/1/14	2020/1/13
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2018/9/12	2019/9/11
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2019/3/5	2020/3/4
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2018/8/9	2019/8/8
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test U	Use NCR
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2019/2/21	2020/2/20
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2018/7/2	2019/7/1
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2019/5/10	2020/5/9
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2018/9/18	2019/9/17
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2019/2/25	2020/2/24
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2019/3/15	2020/3/14
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2019/3/15	2020/3/14
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2019/3/15	2020/3/14



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ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2019/3/15	2020/3/14
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2019/3/15	2020/3/14
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2018/6/9	2019/6/8
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version E	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

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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 50µH 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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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.

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4 RF Power Output, FCC15.236 (d)

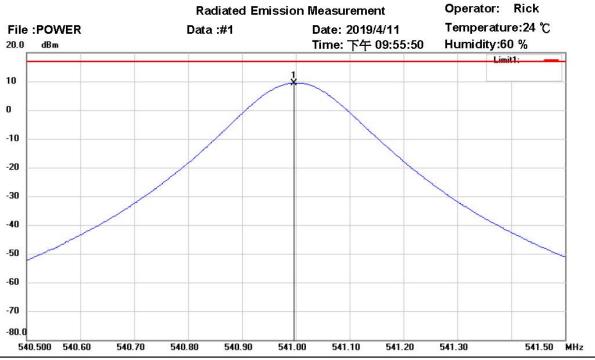
4.1 Test procedure

- § 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 oremission limitations.



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Site: Chamber

Condition: FCC 15.236 POWER Polarization: Horizontal

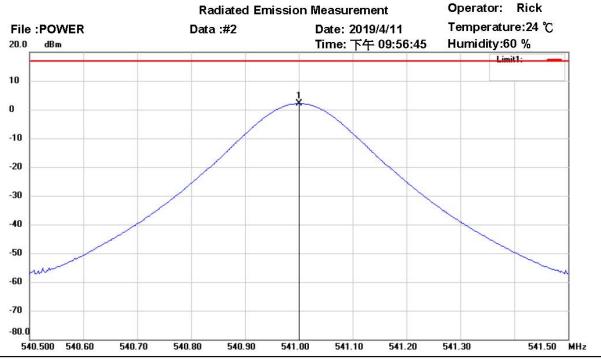
Test Mode: Tx 541.025MHz

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	



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Site: Chamber

Condition: FCC 15.236 POWER Polarization: Vertical

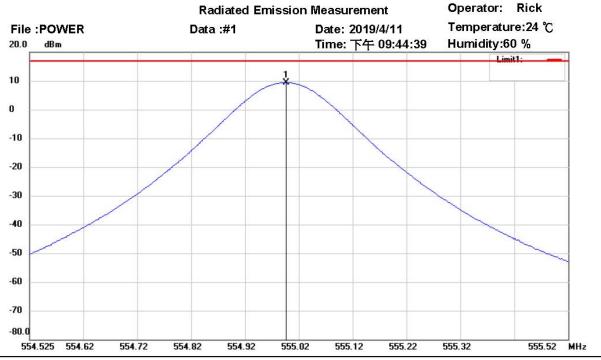
Test Mode: Tx 541.025MHz

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	



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Site: Chamber

Condition: FCC 15.236 POWER Polarization: Horizontal

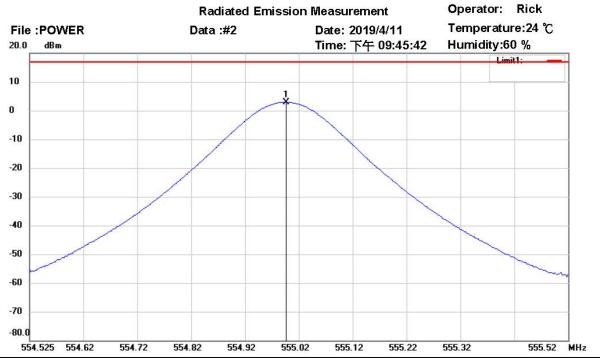
Test Mode: Tx 555.025MHz

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	



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Site: Chamber

Condition: FCC 15.236 POWER Polarization: Vertical

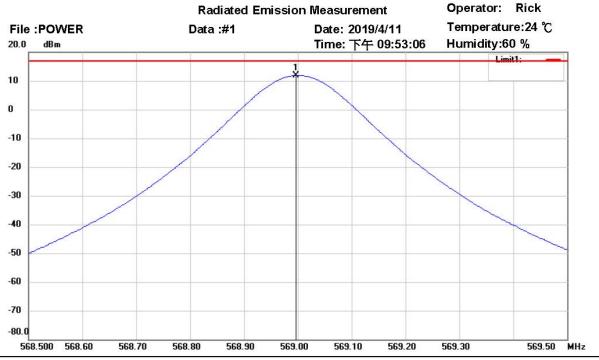
Test Mode: Tx 555.025MHz

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	



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Site: Chamber

Condition: FCC 15.236 POWER Polarization: Horizontal

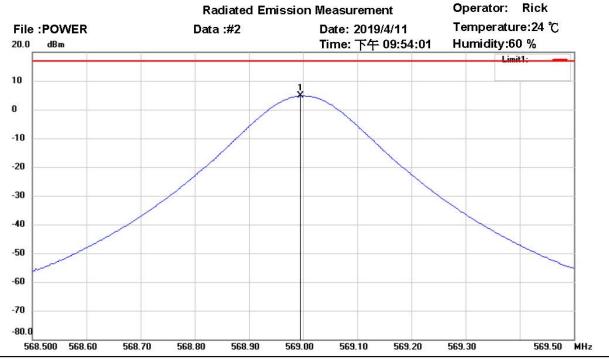
Test Mode: Tx 568.975MHz

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	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Site: Chamber

Condition: FCC 15.236 POWER Polarization: Vertical

Test Mode: Tx 568.975MHz

Note:

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

FCC ID: Y4O-TWR3

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

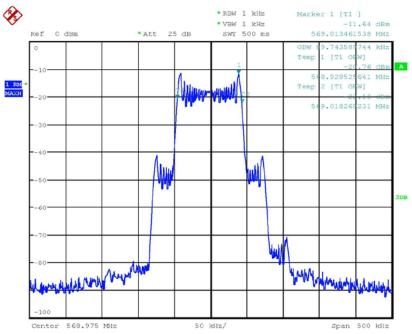
5.1 Test Procedure

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 ±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

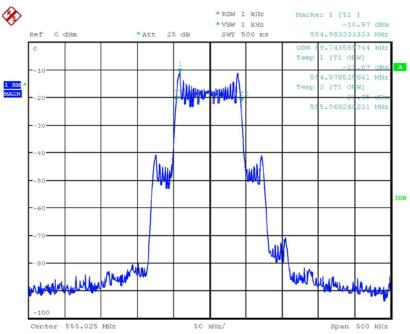


OCCUPIED BANDWIDTH 568.975MHz Date: 12.APR.2019 20:53:18

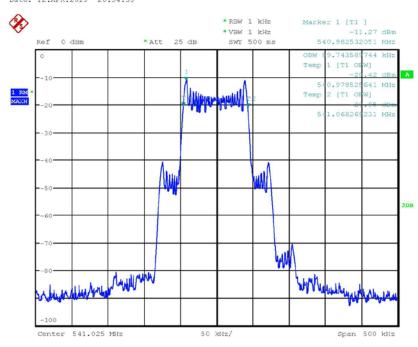


Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3







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

Limit

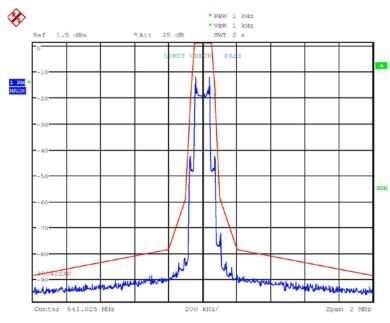
The operating bandwidth shall not exceed 200 kHz. Test equipment used: ETSTW-RE 055, ETSTW-RE 072, ETSTW-RE 050



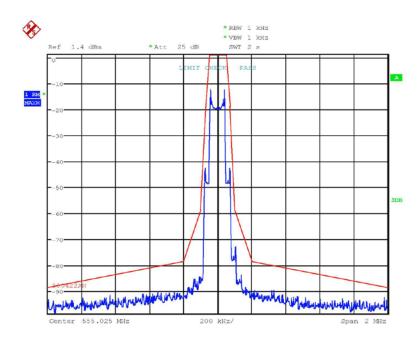
Registration number: W6M21903-18865-C-1

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

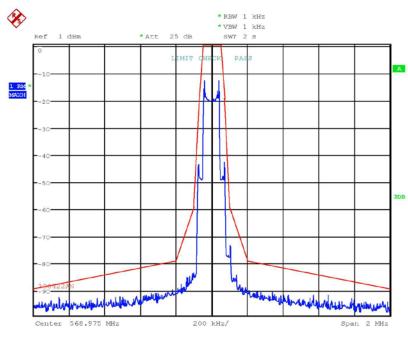


NECESSARY BANDWIDTH 555.025MHz Date: 12.APR.2019 20:48:56



Registration number: W6M21903-18865-C-1

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

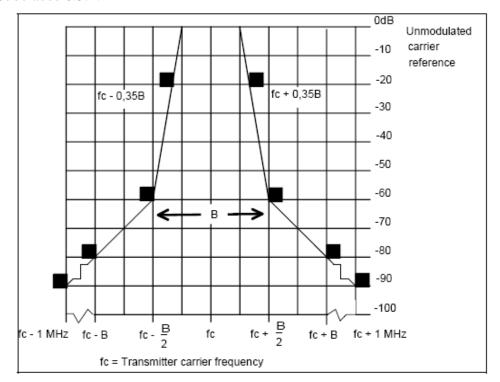


Figure 1: Spectrum mask for analogue systems in all bands



Registration number: W6M21903-18865-C-1

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.

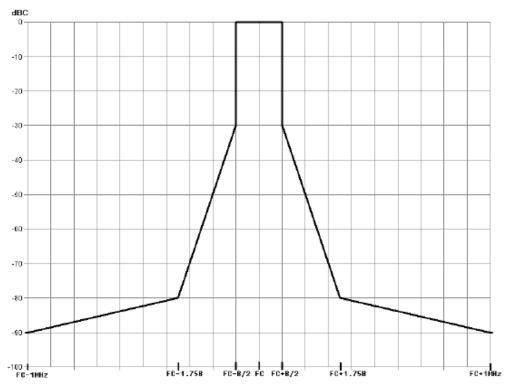


Figure 2: Spectrum mask for digital systems below 1 GHz

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

Model:

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

Date:

Stealth Pro

Model.	Steamin	ט שנו	C.				
Mode:		Ten	nperature:	°C	Enginee Enginee	r:	
Polarization: I	Horizontal	Hui	midity:	%			
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

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



Registration number: W6M21903-18865-C-1

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

0				
		541.025	5 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	5 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

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.

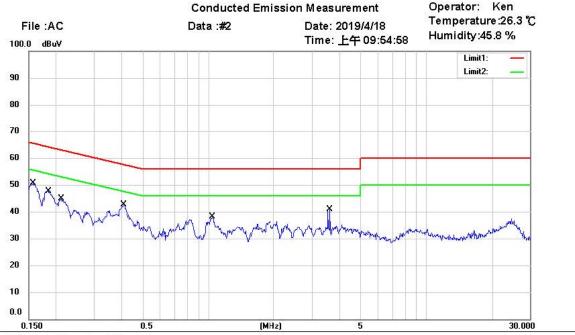
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3

8.2 Test Results



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

Phase: A

EUT: W6M21903-18865

Power: 120 Va.c.

M/N:

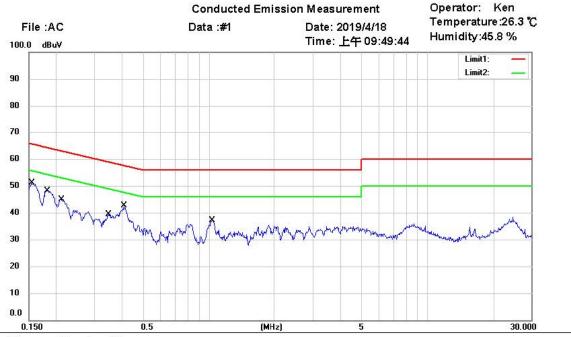
Test Mode: TX

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
- 33	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	
- 23	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	
7	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	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

Power: 120 Va.c.

L1

Phase:

EUT: W6M21903-18865

M/N:

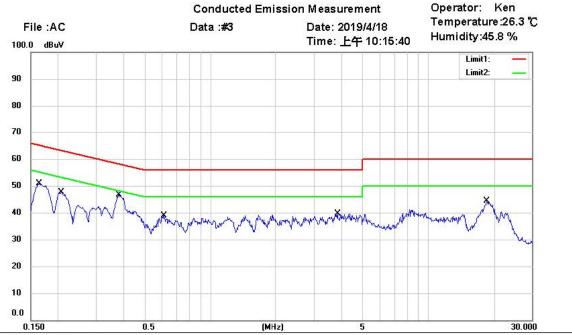
Test Mode: TX

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
- 23	0.1542	38.15	QP	9.95	48.10	65.77	-17.67	
- 23	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	
- 38	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	
- 3	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	
8	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	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

Phase: 120 Va.c.

EUT: W6M21903-18865

M/N:

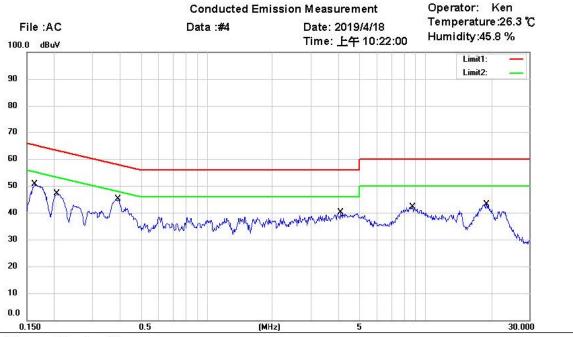
Test Mode: RX1

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
28	0.1635	34.47	QP	9.94	44.41	65.28	-20.87	
- 13	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	
- 8	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	
- 8	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	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

Power: 120 Va.c.

L1

Phase:

EUT: W6M21903-18865

M/N:

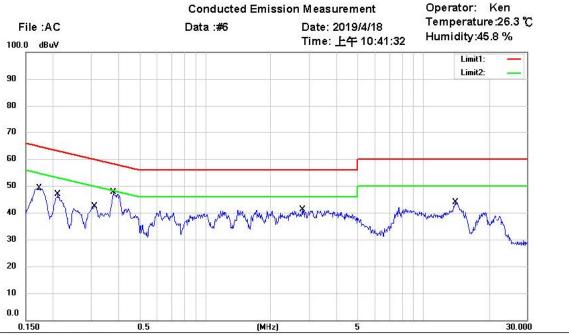
Test Mode: RX1

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
- 23	0.1623	32.75	QP	9.94	42.69	65.35	-22.66	
- 23	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	
- 35	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	
- 3	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	
- 8	19.0000	24.36	QP	10.19	34.55	60.00	-25.45	
- 23	19.0000	16.91	AVG	10.19	27.10	50.00	-22.90	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

Phase: 120 Va.c.

EUT: W6M21903-18865

M/N:

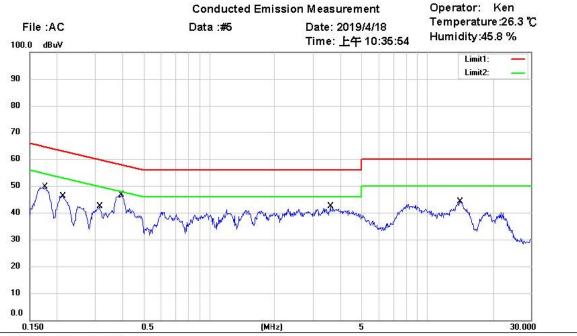
Test Mode: RX2

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
- 23	0.1728	35.51	QP	9.94	45.45	64.82	-19.37	
224	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	
- 8	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	



Registration number: W6M21903-18865-C-1

FCC ID: Y4O-TWR3



Phase:

Power: 120 Va.c.

Site: Chamber_03

Condition: FCC Part 15 Class B Conduction (QP)

EUT: W6M21903-18865

M/N:

Test Mode: RX2

Note:

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
28	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	
7	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	

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

FCC ID: Y4O-TWR3

Appendix

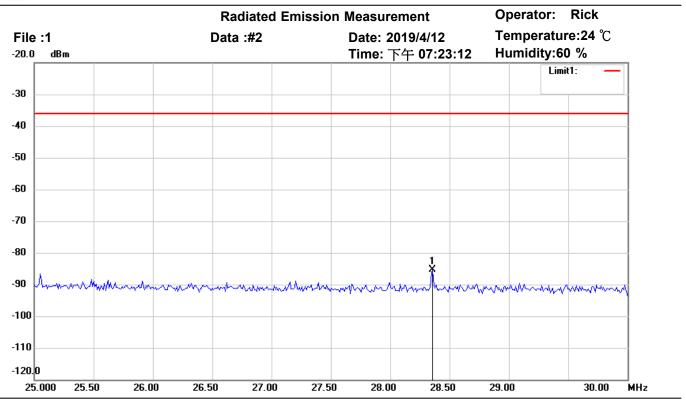
Measurement diagrams

Radiation Spurious Emission



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei

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



Site: Chamber

Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

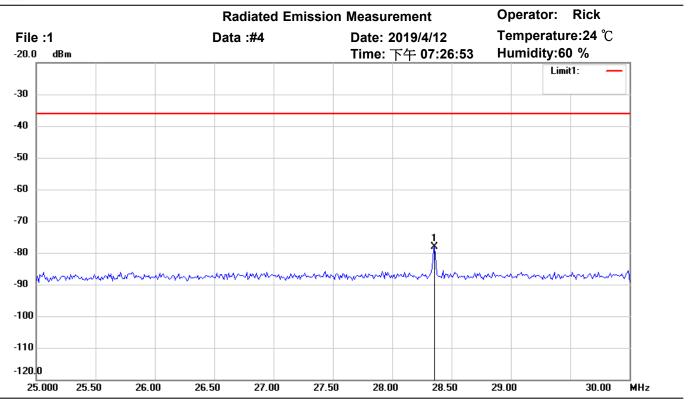
Test Mode: Tx 541.025MHz

N	lk.	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	



Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei

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



Site: Chamber

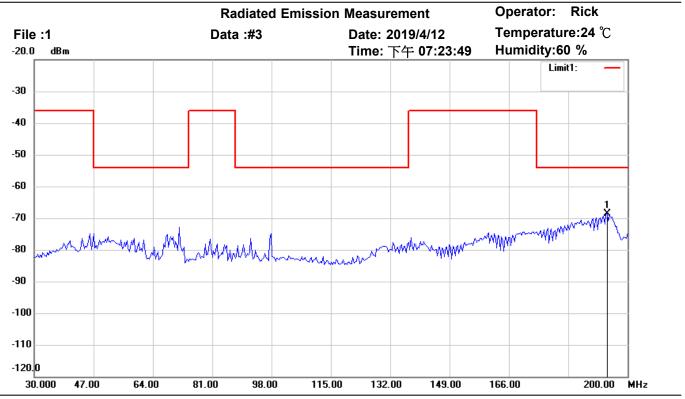
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

N	۱k.	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	



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Site: Chamber

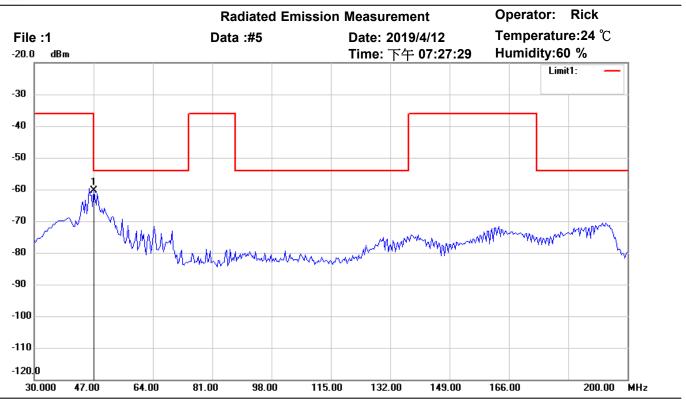
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 541.025MHz

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	



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Site: Chamber

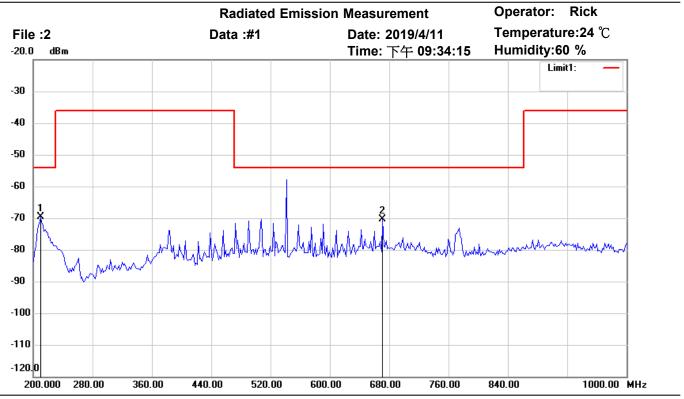
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

N	lk.	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	



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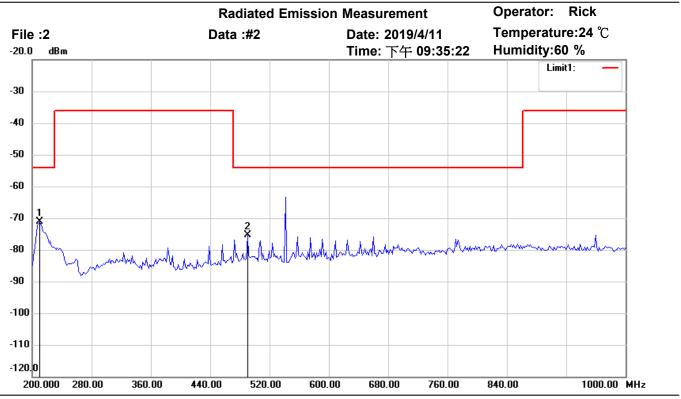
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 541.025MHz

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	



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Site: Chamber

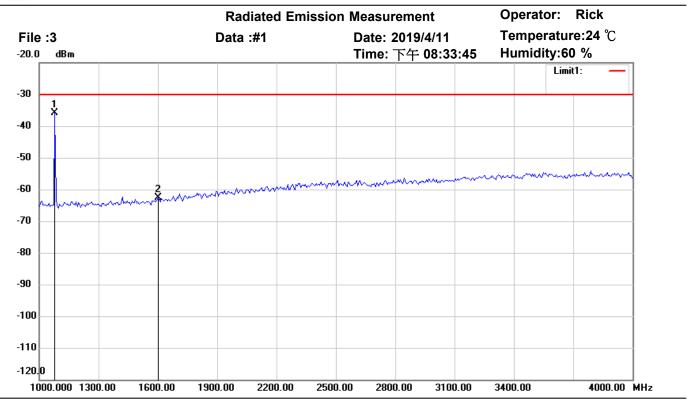
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

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	



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Site: Chamber

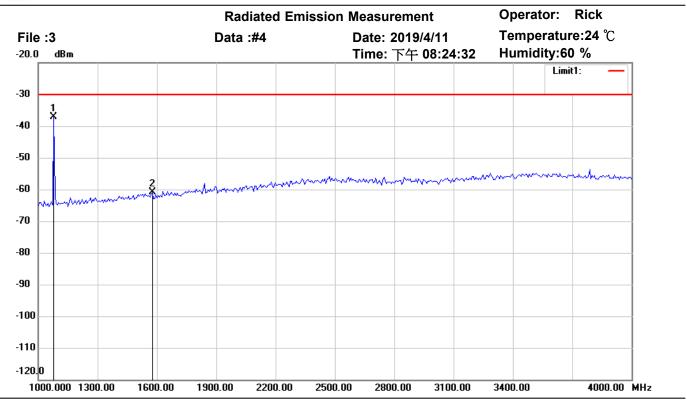
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 541.025MHz

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	



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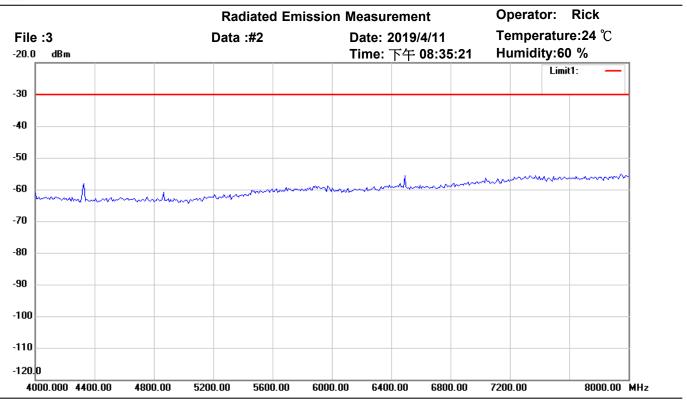
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

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	



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Site: Chamber

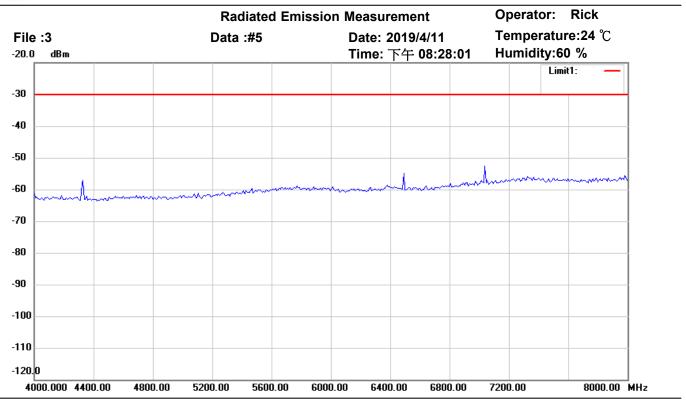
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 541.025MHz

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



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Site: Chamber

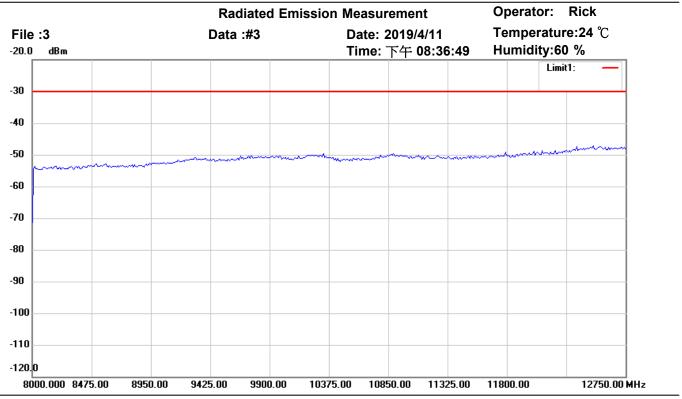
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

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



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Site: Chamber

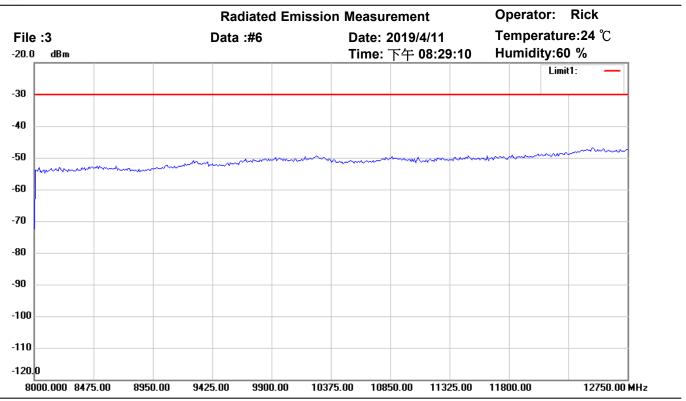
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 541.025MHz

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



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Site: Chamber

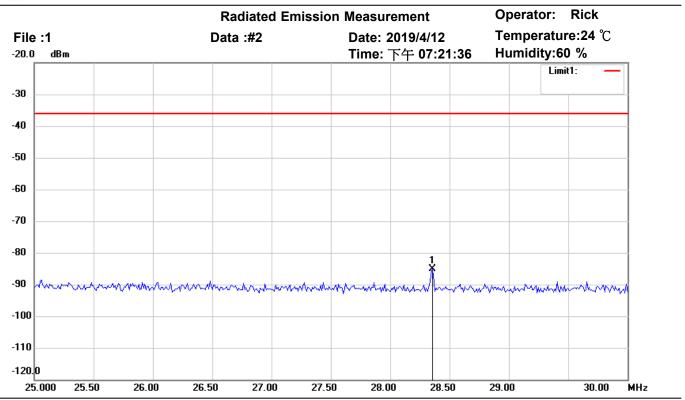
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 541.025MHz

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



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Site: Chamber

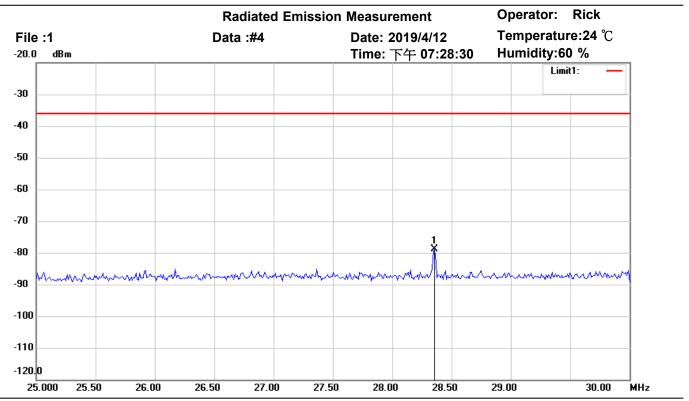
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

ı	Иk.	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	



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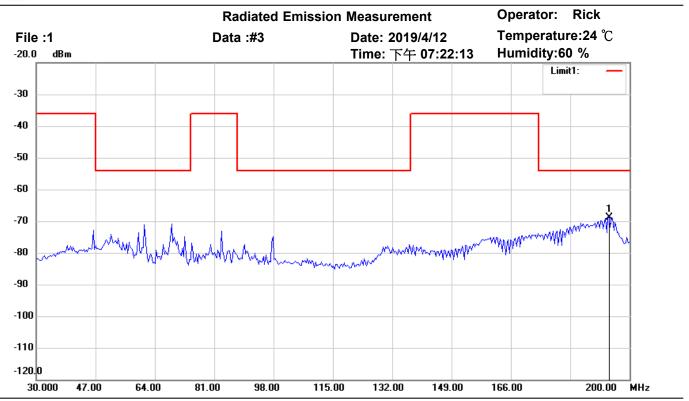
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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	



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Site: Chamber

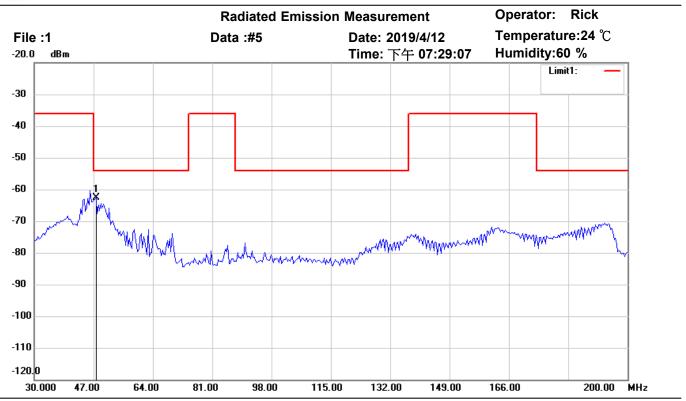
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

N	lk.	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	



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Site: Chamber

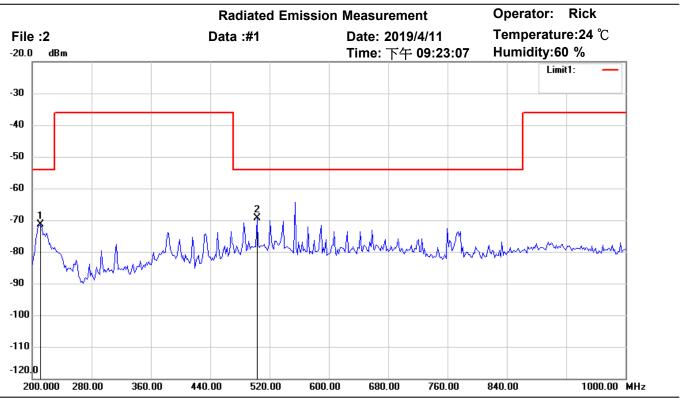
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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	



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Site: Chamber

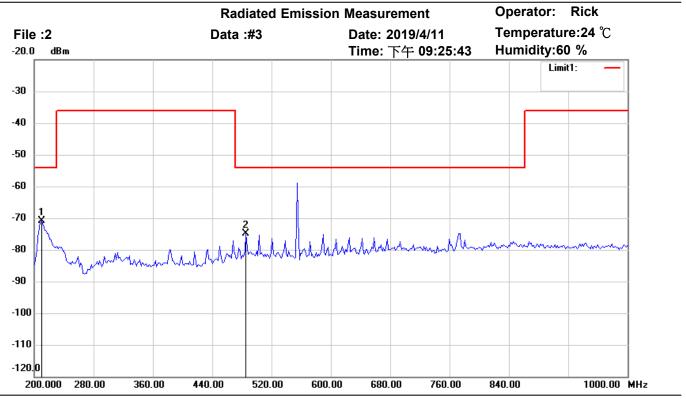
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

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	



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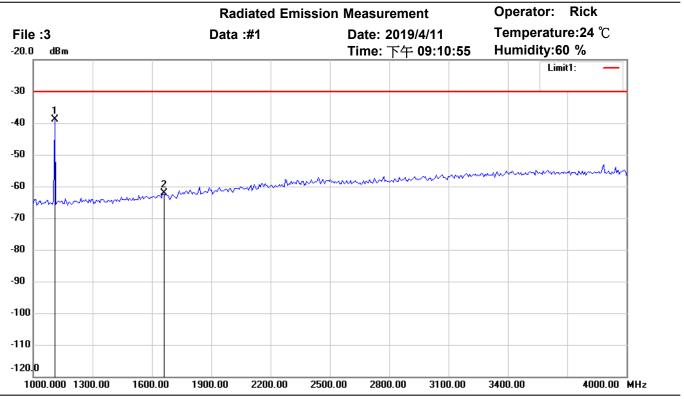
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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	



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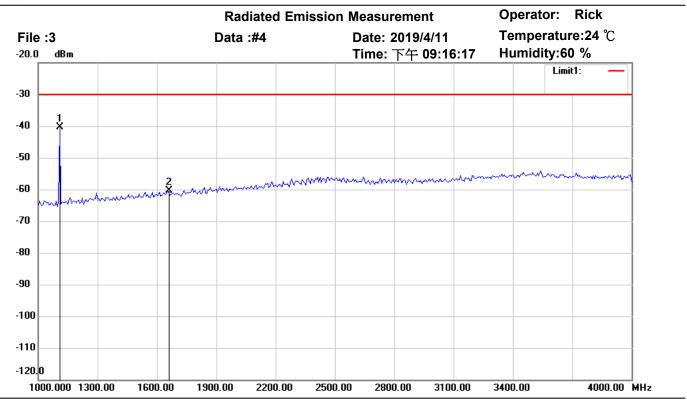
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

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	



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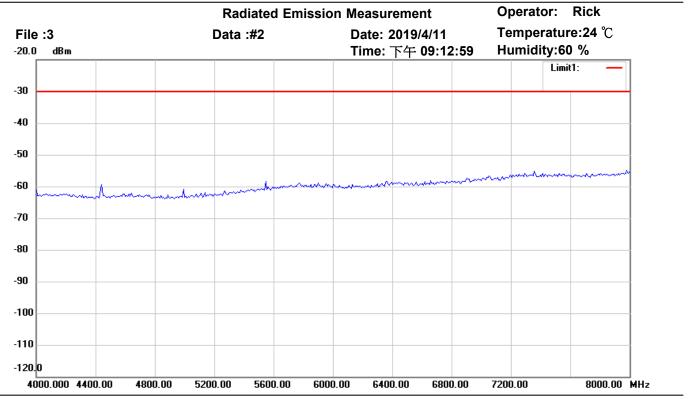
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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	



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Site: Chamber

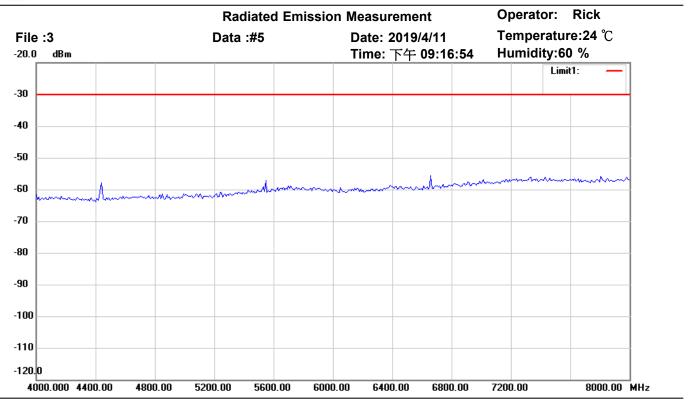
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

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



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Site: Chamber

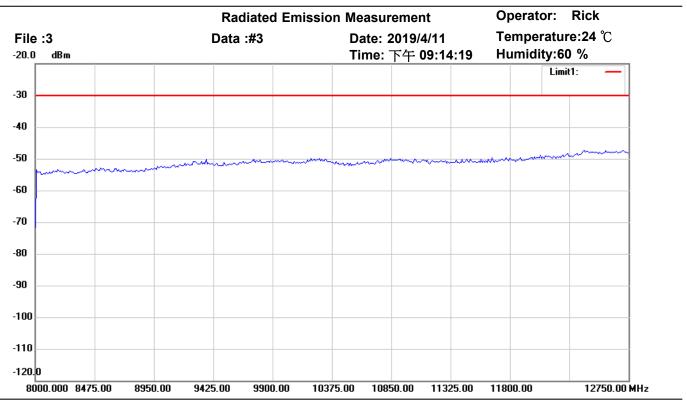
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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



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Site: Chamber

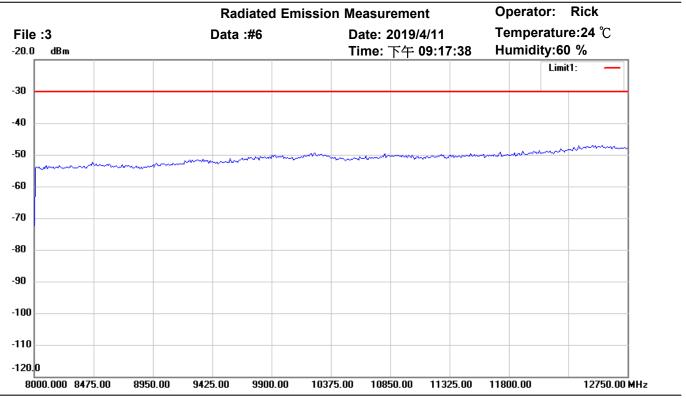
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 555.025MHz

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



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Site: Chamber

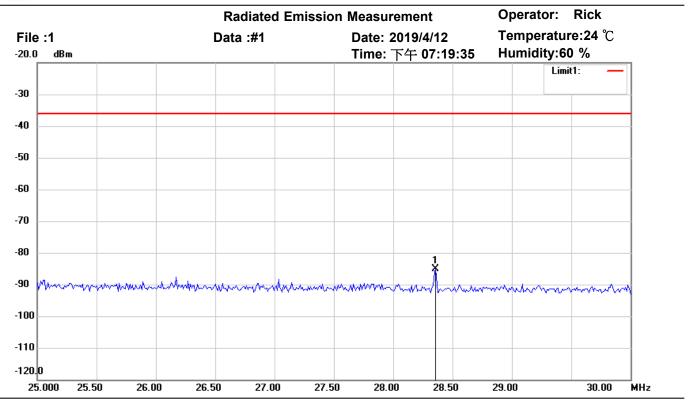
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 555.025MHz

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



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Site: Chamber

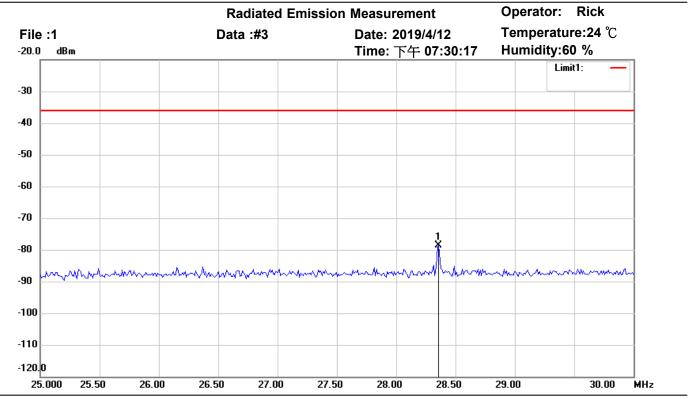
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

ı	Иk.	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	



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Site: Chamber

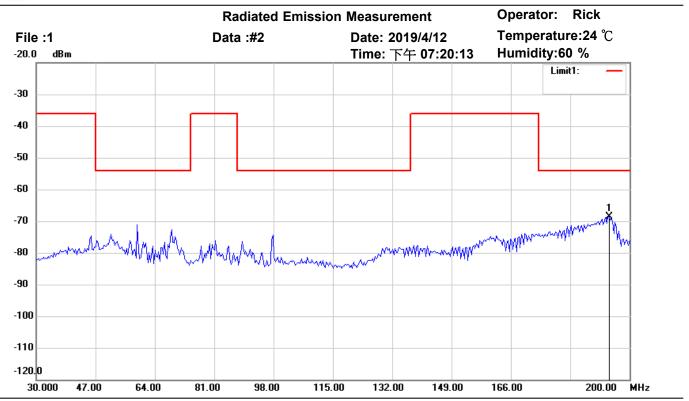
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

M	lk.	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	



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Site: Chamber

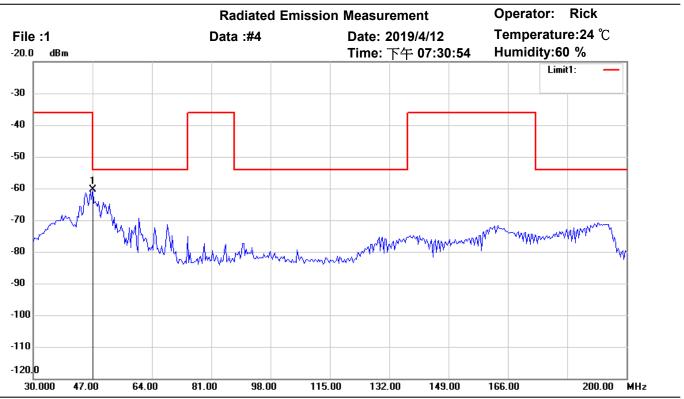
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

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	



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Site: Chamber

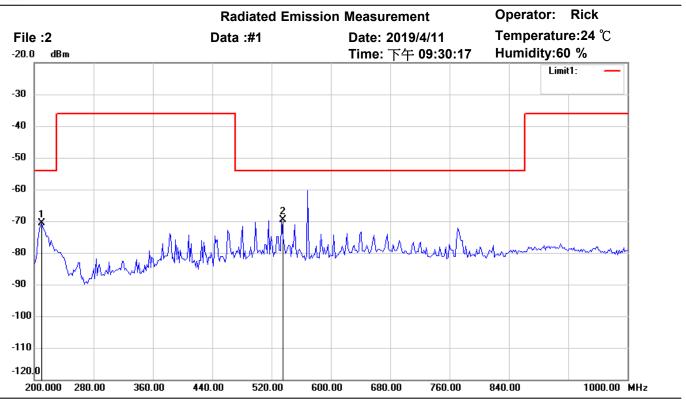
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

N	/lk.	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	



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Site: Chamber

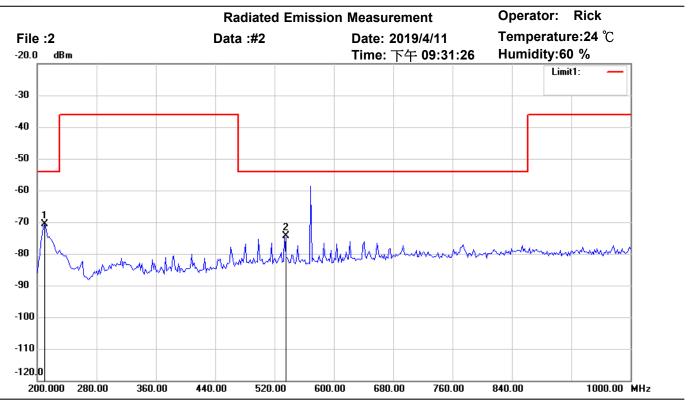
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

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	



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Site: Chamber

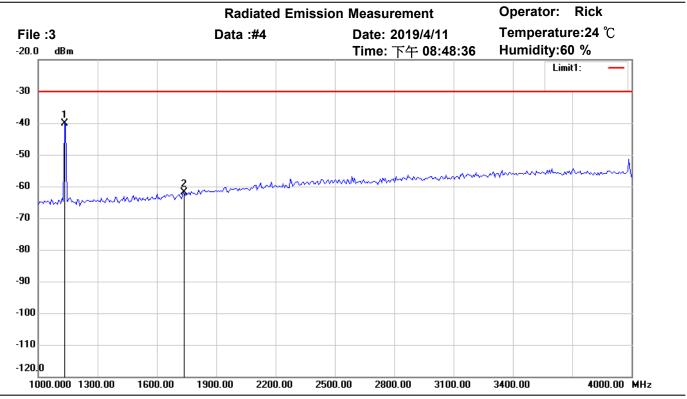
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

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	



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Site: Chamber

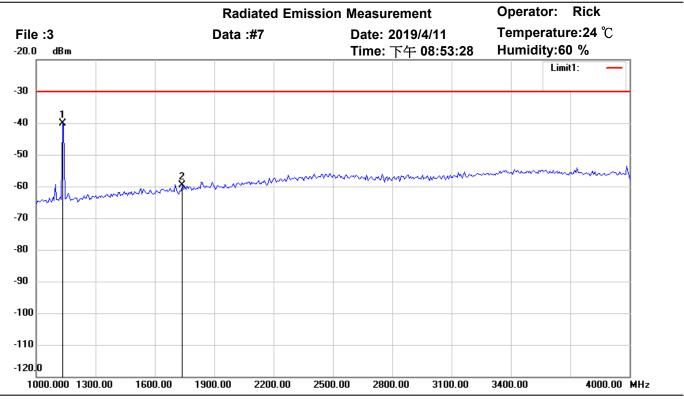
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

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	



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Site: Chamber

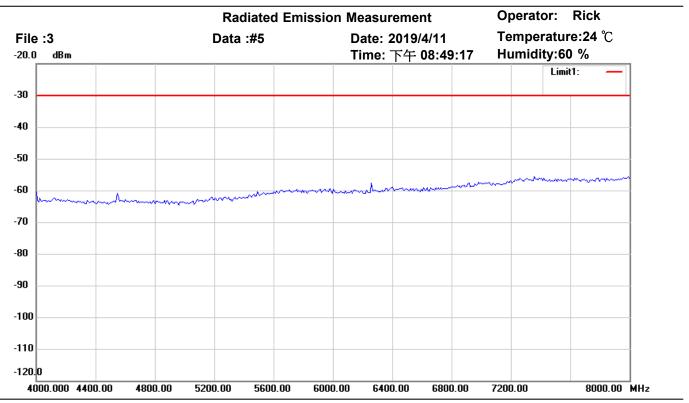
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

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	



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Site: Chamber

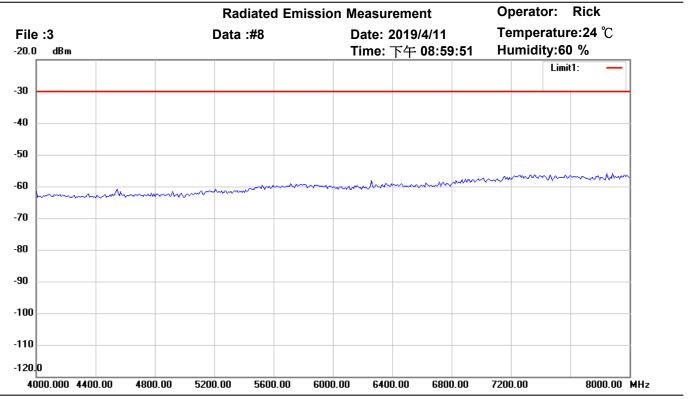
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

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



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Site: Chamber

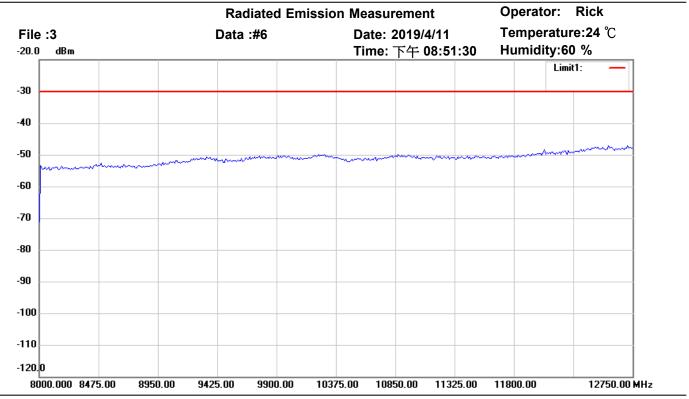
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

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



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Site: Chamber

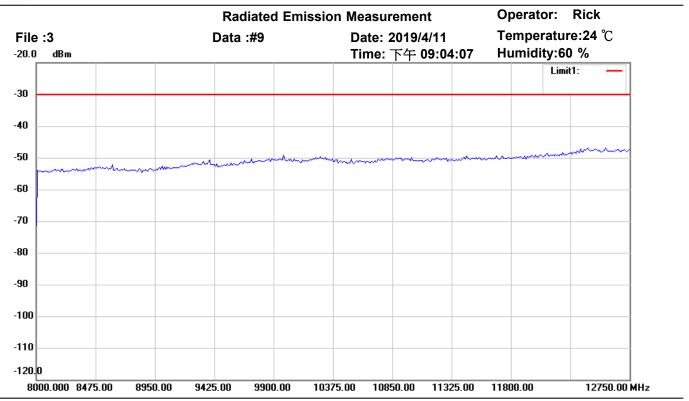
Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Horizontal

Test Mode: Tx 568.975MHz

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



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Site: Chamber

Condition: ETSI EN300_422-TX_Spurious_OP Polarization: Vertical

Test Mode: Tx 568.975MHz

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