

FCC PART 15 SUBPART C TEST REPORT

for

USB micro antenna

Model No.: 2UB-RX

FCC ID: XBBRX36-6N

of

Applicant: Hippus NV

Address: Parkstraat 35 Breda, 4818 SJ Netherlands

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW0020, TW1072

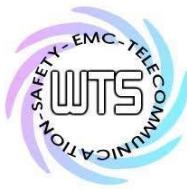
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21808-18333-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

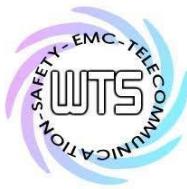


Worldwide Testing Services(Taiwan) Co., Ltd.

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

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

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

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

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:

September 10, 2018

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 10, 2018

Kevin Wang

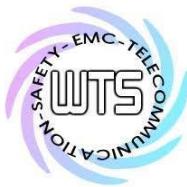
Kevin Wang

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

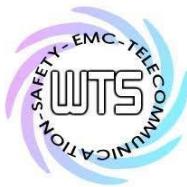
A2LA accredited number: 2730.01

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

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

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

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



Worldwide Testing Services(Taiwan) Co., Ltd.

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1.3 Details of approval holder

Name:	Hippus NV
Street:	Parkstraat 35 Breda,
Town:	4818 SJ
Country:	Netherlands
Telephone:	0031 76 5217210
Fax:	0031 76 5217128

1.4 Application details

Date of receipt of test item:	August 28, 2018
Date of test:	From August 29, 2018 to September 7, 2018

1.5 General information of Test item

Type of test item:	USB micro antenna
Model Number:	2UB-RX
Multi-listing model number:	
Photos:	see Annex

Technical data

Frequency band:	2.400-2.4835 GHz
Operation Frequency:	2.406-2.478 GHz
Frequency 1:	2.406 GHz
Frequency 2:	2.440 GHz
Frequency 3:	2.478 GHz
Operation modes:	Duplex
Modulation Type:	GFSK
Antenna type:	Copper trace antenna
Antenna Gain:	-4.26 dBi
Power supply:	USB 5Vdc(Power from PC)

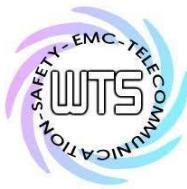
Manufacturer: (if different from applicant)

Name:	Dongguan Dexin Electronics Co., Ltd.
Street:	No.2, Jianye 2 Road, Shitanpu Village,
Town:	Tangxia Town, Dongguan, Guangdong Province,
Country:	P.R. China

Additional information: /. /

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.249 (2017-10)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.

2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details Power supply: USB 5Vdc(Power from PC)

Extreme conditions parameters: Not required

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission	Expanded Uncertainty : 1.54 dB
Estimation Result of Uncertainty of Radiated Emission(3M)	Expanded Uncertainty : 0.009-30 MHz : 2.17 dB 30-1000 MHz : 3.57 dB 1-18 GHz : 2.60 dB 18-40 GHz : 2.58 dB
Estimation Result of Uncertainty of Conducted Output Power Measurement Output power	Expanded Uncertainty : 1.01 dB
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.98 dBC



Worldwide Testing Services(Taiwan) Co., Ltd.

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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	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	2017/10/26	2018/10/25
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 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	2018/8/21	2019/8/20
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 Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function 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	2018/3/26	2019/3/25
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2018/1/23	2019/1/22
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2018/4/13	2019/4/12
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2018/4/26	2019/4/25
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2018/3/1	2019/2/28
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2018/3/6	2019/3/5
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2018/3/1	2019/2/28
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2018/3/30	2019/3/29
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	2018/9/7	2019/9/6
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2017/9/19	2018/9/18
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2018/4/16	2019/4/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2018/2/23	2019/2/22
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	2018/1/15	2019/1/14



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ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function 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	2018/2/27	2019/2/26
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-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2018/3/30	2019/3/29
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2018/3/23	2019/3/22
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	2018/5/10	2019/5/9
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	2018/2/27	2019/2/26
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2018/3/2	2019/3/1
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2017/10/16	2018/10/15
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5 -1875.5/1884.5-32/5SS	3	WI	2018/1/11	2019/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2018/1/11	2019/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2018/9/7	2019/9/6
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2018/3/7	2019/3/6
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 Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2018/2/22	2019/2/21
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2018/2/22	2019/2/21
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	2018/2/27	2019/2/26
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2018/5/14	2019/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2017/9/19	2018/9/18
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2017/9/19	2018/9/18
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2018/2/27	2019/2/26
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2018/3/30	2019/3/29

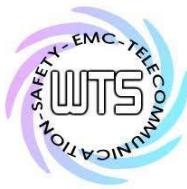


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ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2018/6/9	2019/6/8
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2018/3/30	2019/3/29
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2018/8/21	2019/8/20
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2018/6/9	2019/6/8
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMCA	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	



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.10-2013 6.2 using a LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.10-2013 6.3 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

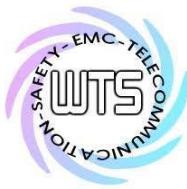
Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

ANSI STANDARD C63.10-2013 6.2.2 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm height and with dimensions of 1m by 1.5m (non metallic table). The EUT was placed in the centre of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

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
Peak Output Power	15.249 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.249 (e)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Out of Band Spurious Emission, Band edge-Transmitter operating	15.249 (e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



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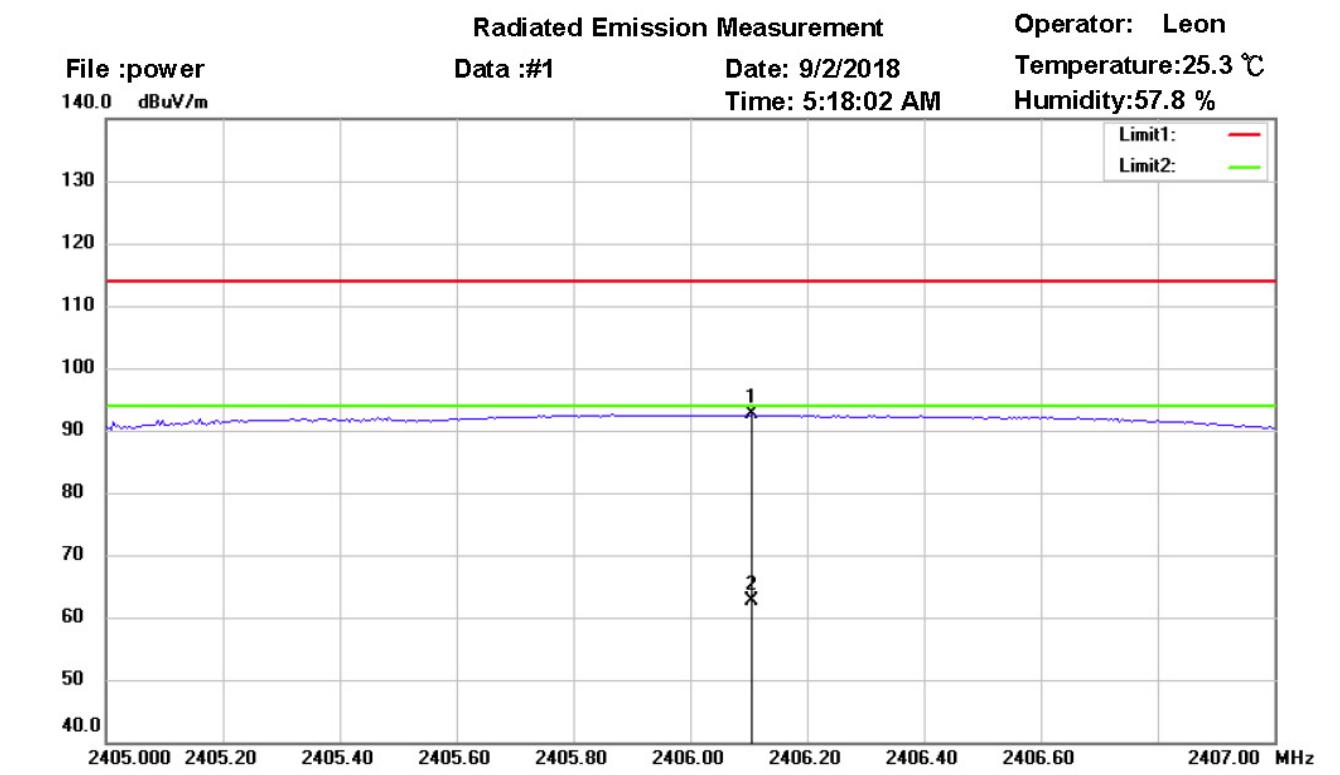
FCC ID: XBBRX36-6N

3.1 Peak Output Power (transmitter)

FCC Rule: 15.249 (b)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2406MHz

Note :

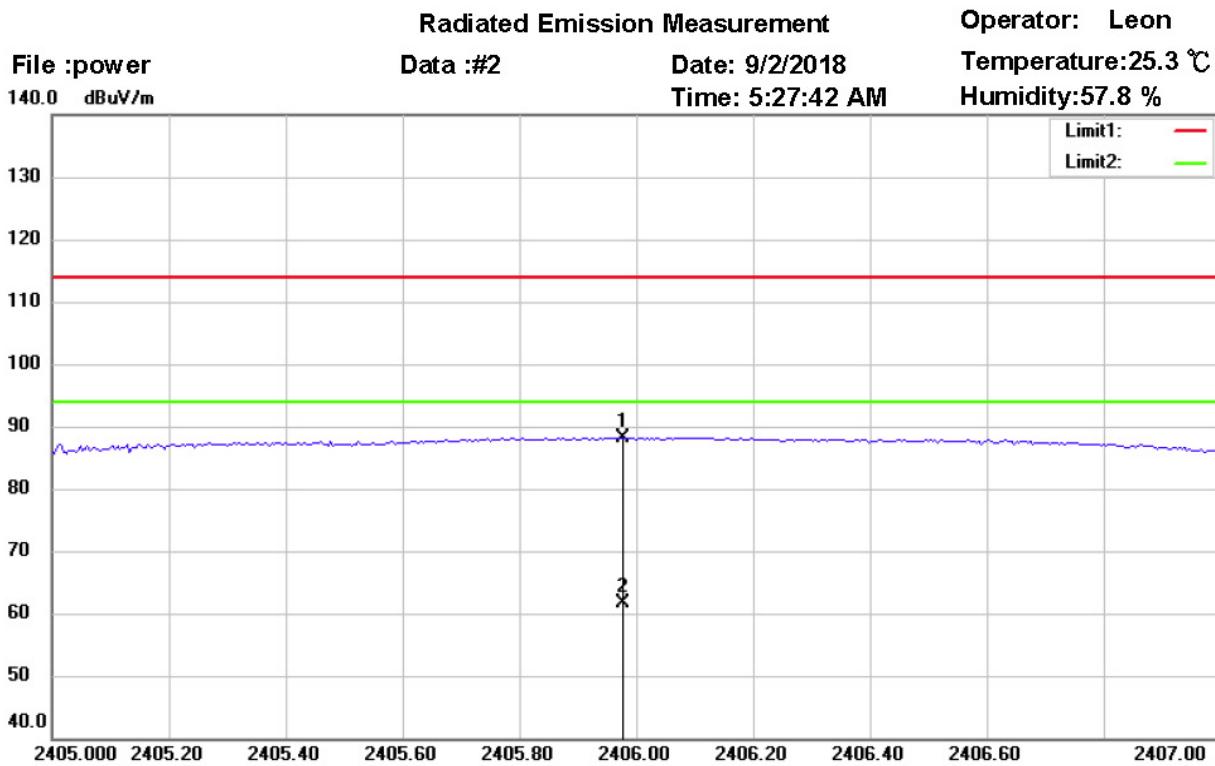
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2406.106	53.53	peak	39.02	92.55	114.00	185	160	-21.45	
	2406.106	23.68	AVG	39.02	62.70	94.00	185	160	-31.30	



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Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2406MHz

Note :

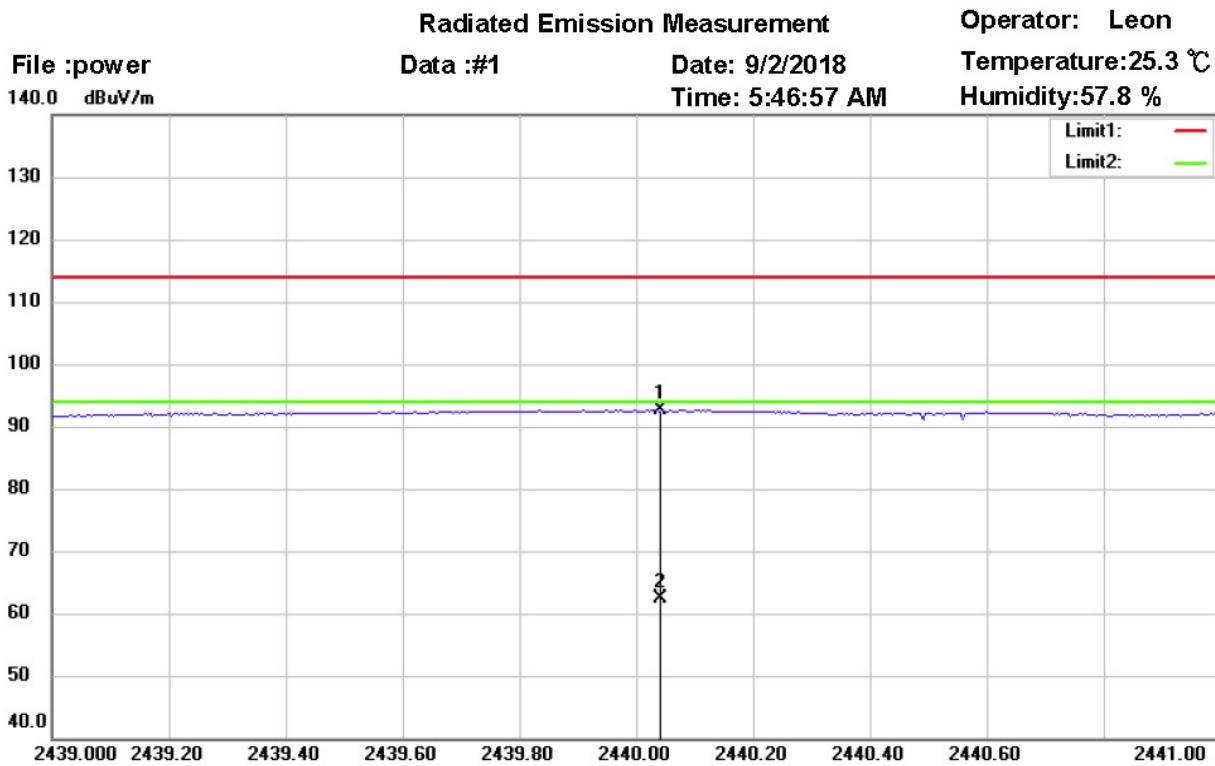
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2405.978	49.22	peak	39.02	88.24	114.00	150	317	-25.76	
	2405.978	22.52	AVG	39.02	61.54	94.00	150	317	-32.46	



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Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

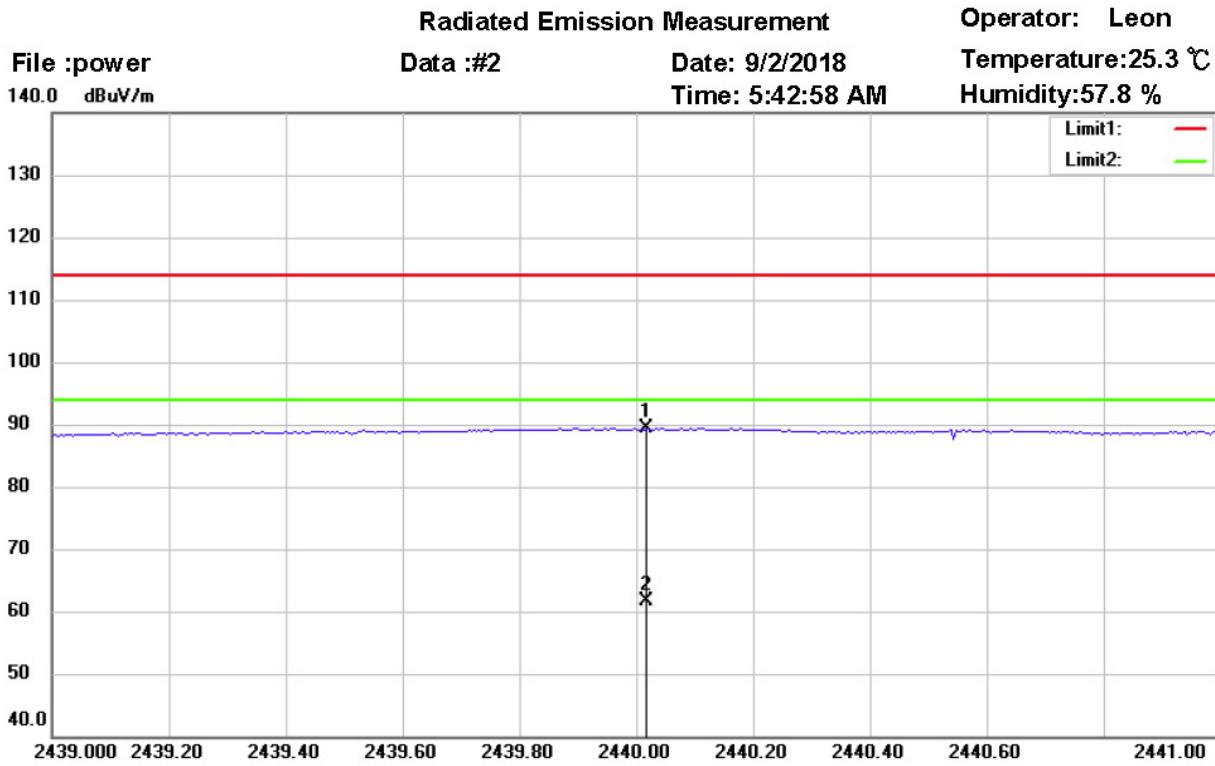
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2440.042	53.35	peak	39.20	92.55	114.00	175	150	-21.45	
	2440.042	23.25	AVG	39.20	62.45	94.00	175	150	-31.55	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2440MHz

Note :

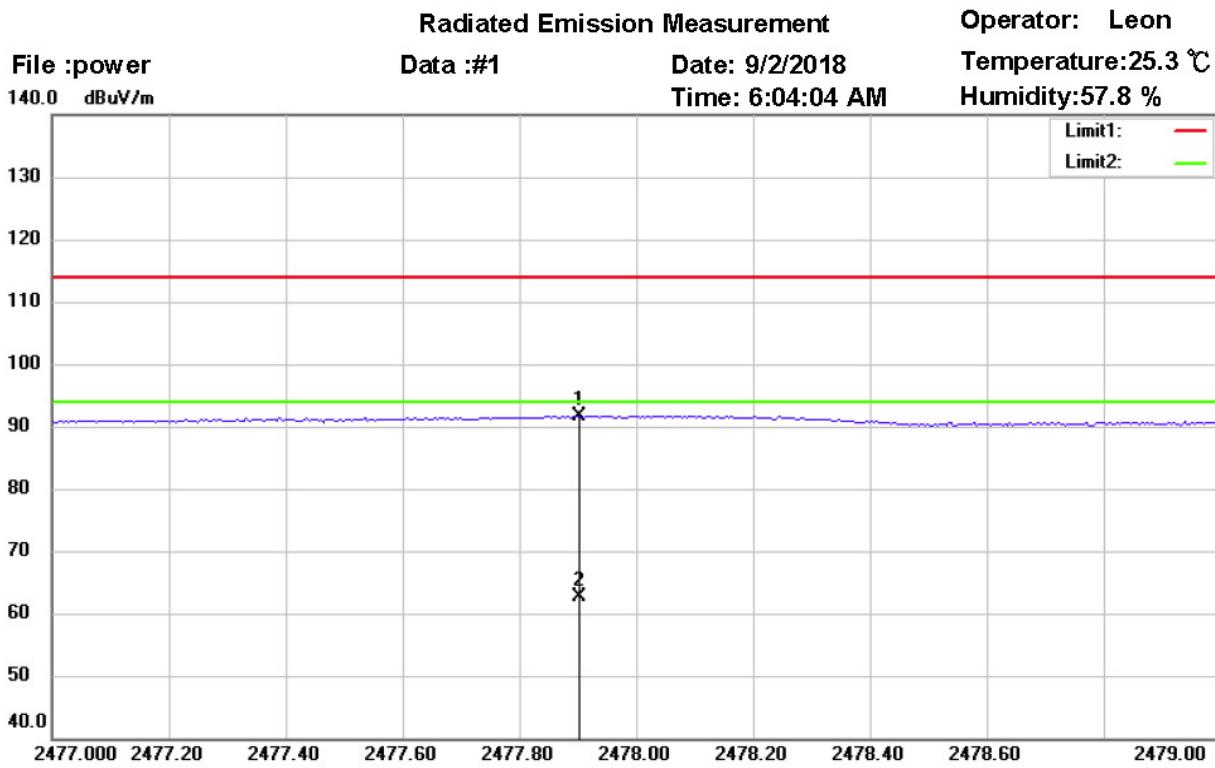
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2440.018	50.14	peak	39.20	89.34	114.00	225	188	-24.66	
	2440.018	22.36	AVG	39.20	61.56	94.00	225	188	-32.44	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

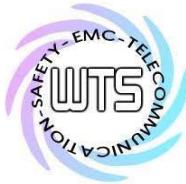
M/N:

Distance: 3m

Test Mode : TX 2478MHz

Note :

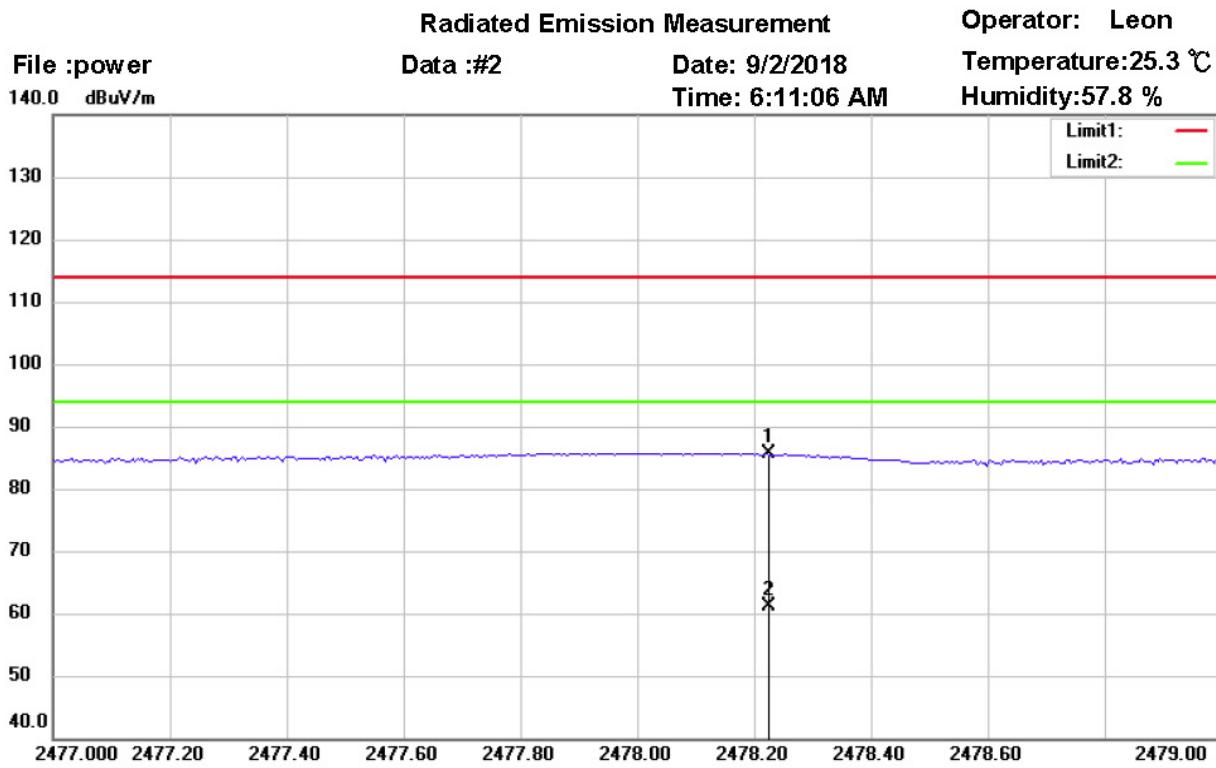
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2477.898	52.30	peak	39.40	91.70	114.00	175	150	-22.30	
	2477.898	23.16	AVG	39.40	62.56	94.00	175	150	-31.44	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N



Site : Chamber

Condition : FCC 15.249 power_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

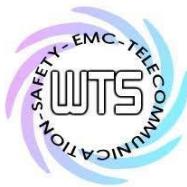
Distance: 3m

Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2478.226	46.32	peak	39.40	85.72	114.00	263	190	-28.28	
	2478.226	21.61	AVG	39.40	61.01	94.00	263	190	-32.99	

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142, ETSTW-RE 147



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

Not applicable for this EUT for the low power level.

3.4 Out of Band Radiated Emissions

FCC Rule: 15.249 (d)(e), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Limits:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.5
Above 960	500	54.0

For frequencies above 1 GHz (Peak measurements).

Limit + 20 dB $54.0 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB}\mu\text{V/m}$

Or

Must be attenuated at least 50dB below the level of fundament

Test equipment used: ETSTW-RE 004, ETSTW-RE 111, ETSTW-RE 030

Explanation: Please see attached diagram as appendix.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

3.5 Spurious emission (tx)

Spurious emission was measured with modulation (declared by manufacturer).

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

SAMPLE CALCULATION OF LIMIT. ALL results will be updated by an automatic measuring system in accordance with point 2.3.

The peak and average spurious emission plots was measured with the average limits.
The critical peak value listed in the table agree with the above calculated limits.

Summary table with radiated data of the test plots

Model:	2UB-RX		Date:	--				
Mode:	--		Temperature:	--	°C	Engineer:	--	
Polarization:	Horizontal		Humidity:	--	%			
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--

Note

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty for 3m measurement: 30-1000 MHz = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz = ± 2.58 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. Up Line: PK Limit Line, Down Line: Ave Limit Line.
7. See attached diagrams in appendix.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062,
ETSTW-RE 142, ETSTW-RE 147



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1
FCC ID: XBBRX36-6N

3.6 Radiated Emissions from Digital Part

Summary table with radiated data of the test plots

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

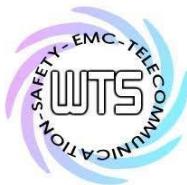
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Note

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.
5. Measurement uncertainty for 3m measurement : 30-1000 MHz = ± 3.57 dB, 1-18 GHz = ± 2.60 dB, 18-40 GHz= ± 2.58 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062,
ETSTW-RE 142, ETSTW-RE 147

Explanation: The test results are listed in the separated test report no.: W6M21808-18333-P-15B.

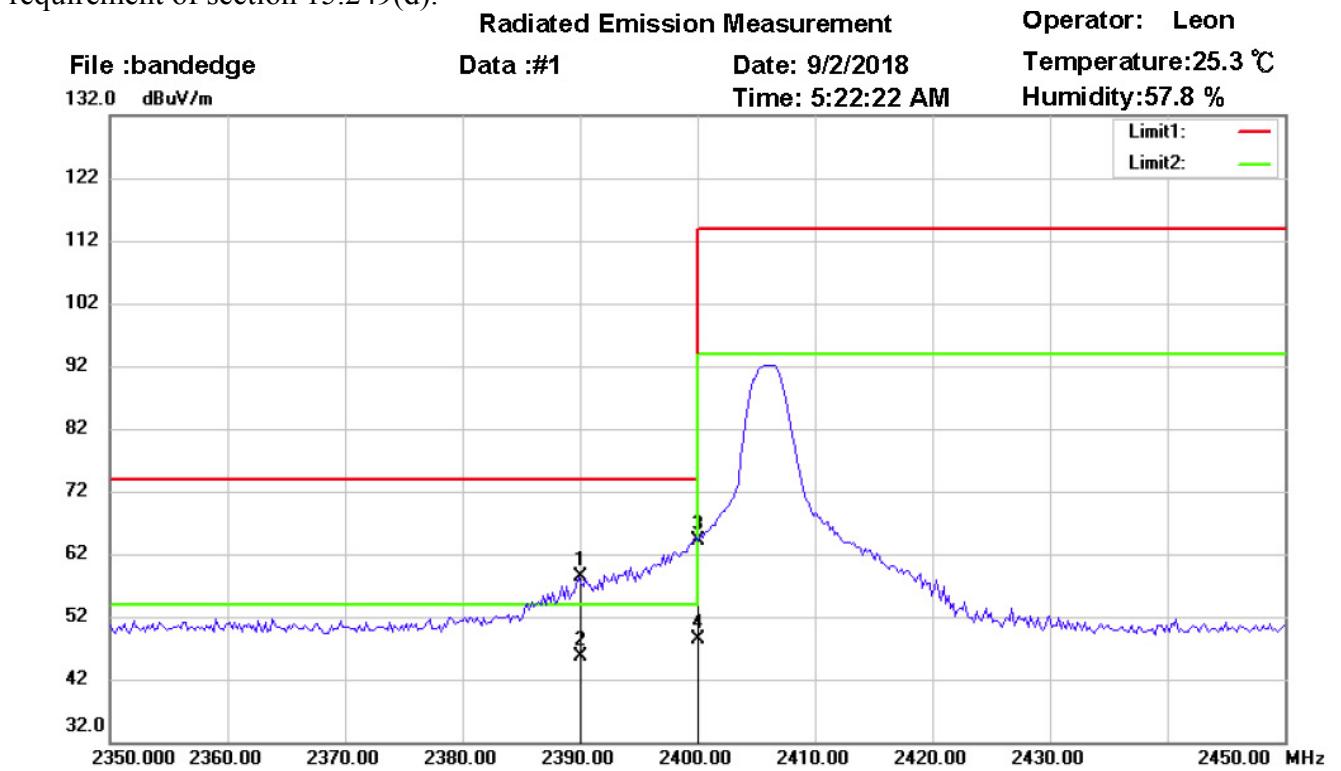


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1
FCC ID: XBBRX36-6N

3.7 Radiated Emission on the band edge

From the following plots, they show that the fundamental emissions are confined in the specified band and stay at least 50 dB below the carrier level at band edge (2400 and 2483.5 MHz). It meets the requirement of section 15.249(d).



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

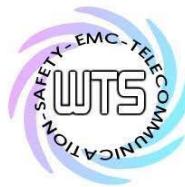
M/N:

Distance: 3m

Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2389.880	19.44	peak	38.95	58.39	74.00	185	160	-15.61	
	2389.880	6.57	AVG	38.95	45.52	54.00	185	160	-8.48	
	2400.000	25.10	peak	38.99	64.09	74.00	185	160	-9.91	
*	2400.000	9.36	AVG	38.99	48.35	54.00	185	160	-5.65	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

Radiated Emission Measurement

Operator: Leon

File :bandedge

Data :#2

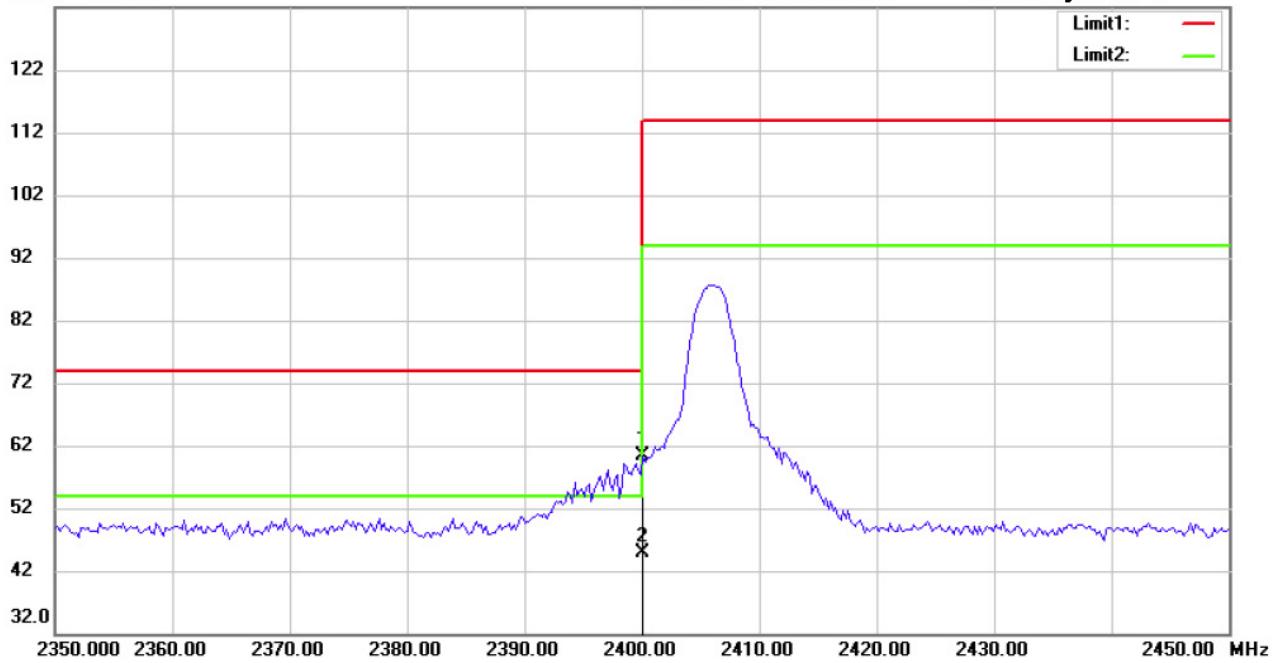
Date: 9/2/2018

Temperature:25.3 °C

132.0 dBuV/m

Time: 5:29:27 AM

Humidity:57.8 %



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

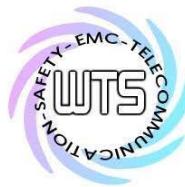
M/N:

Distance: 3m

Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2400.000	21.51	peak	38.99	60.50	74.00	150	317	-13.50	
*	2400.000	5.79	AVG	38.99	44.78	54.00	150	317	-9.22	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

Radiated Emission Measurement

Operator: Leon

File :bandedge

Data :#1

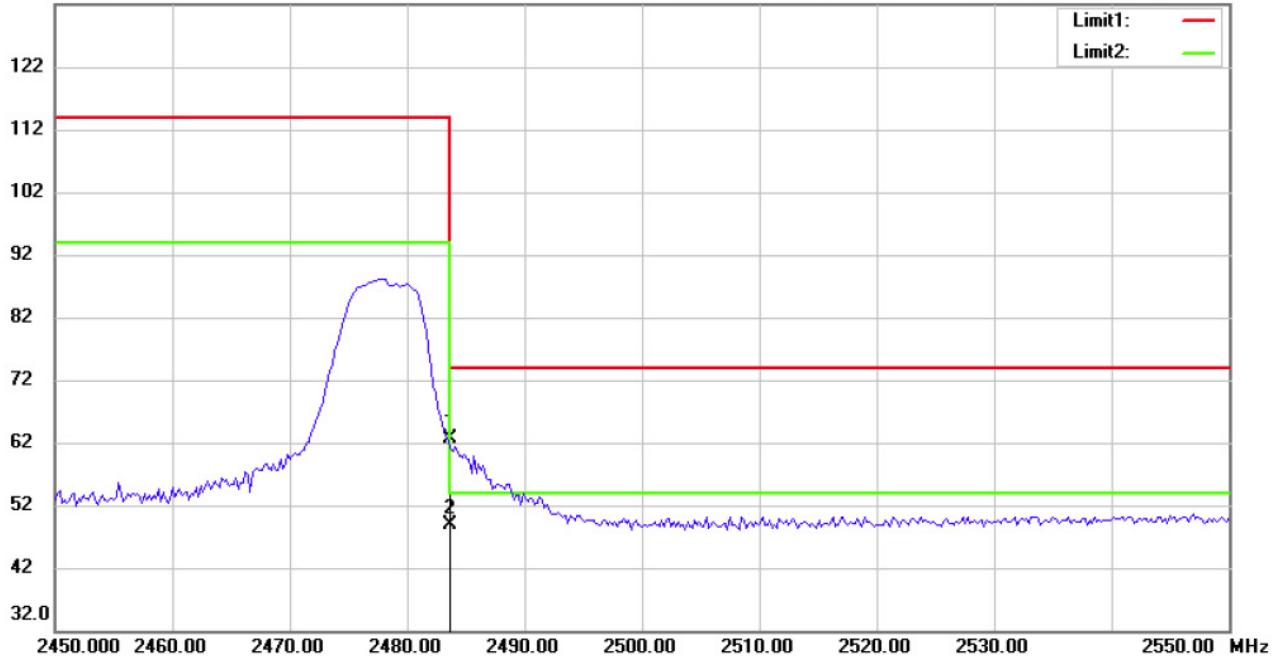
Date: 9/2/2018

Temperature:25.3 °C

132.0 dBuV/m

Time: 6:05:42 AM

Humidity:57.8 %



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	23.10	peak	39.43	62.53	74.00	175	150	-11.47	
*	2483.500	9.38	AVG	39.43	48.81	54.00	175	150	-5.19	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

Radiated Emission Measurement

Operator: Leon

File :bandedge

Data :#2

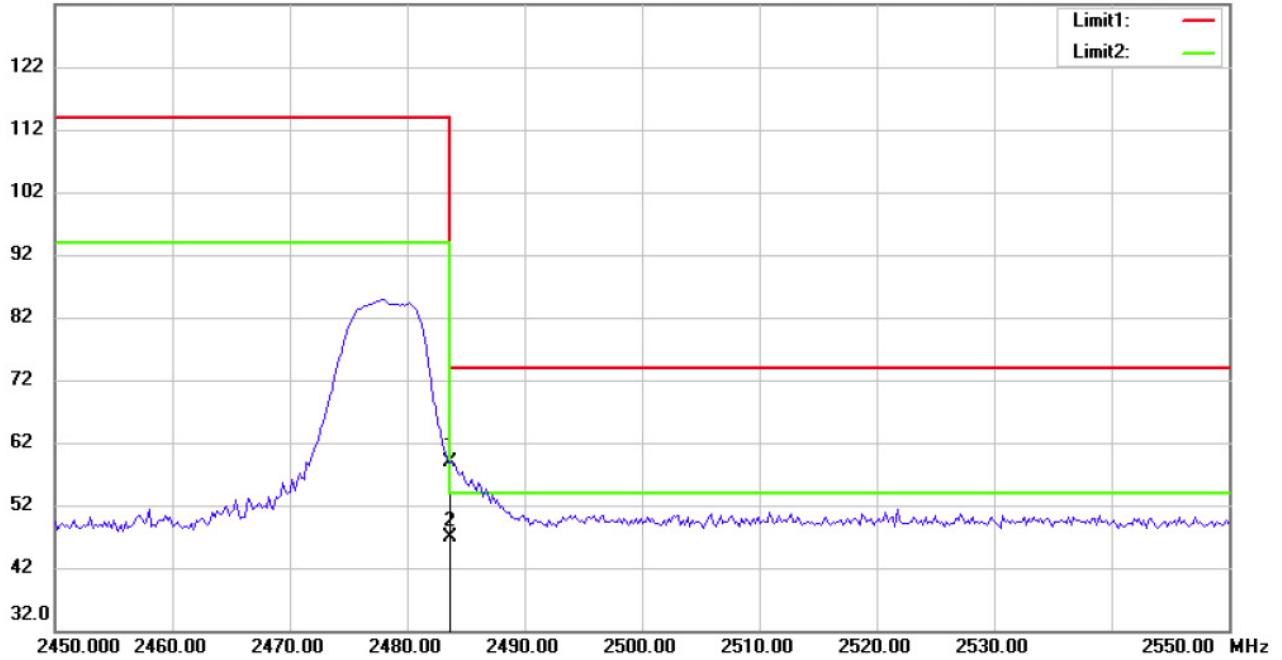
Date: 9/2/2018

Temperature:25.3 °C

132.0 dB μ V/m

Time: 6:12:24 AM

Humidity:57.8 %



Site : Chamber

Condition : FCC 15.249 PK (Bandedge)

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2478MHz

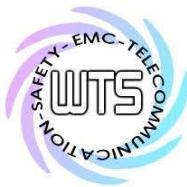
Note :

Mk.	Frequency (MHz)	Reading (dB μ V)	Detector	Corr. factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2483.500	19.45	peak	39.43	58.88	74.00	263	190	-15.12	
*	2483.500	7.45	AVG	39.43	46.88	54.00	263	190	-7.12	

Limit:

Frequency Range (MHz)	Limit (dB μ V/m)	
	Peak	Average
902 – 928	114	94
2400 – 2483.5	74	54
5725 – 5875	74	54

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111



Worldwide Testing Services(Taiwan) Co., Ltd.

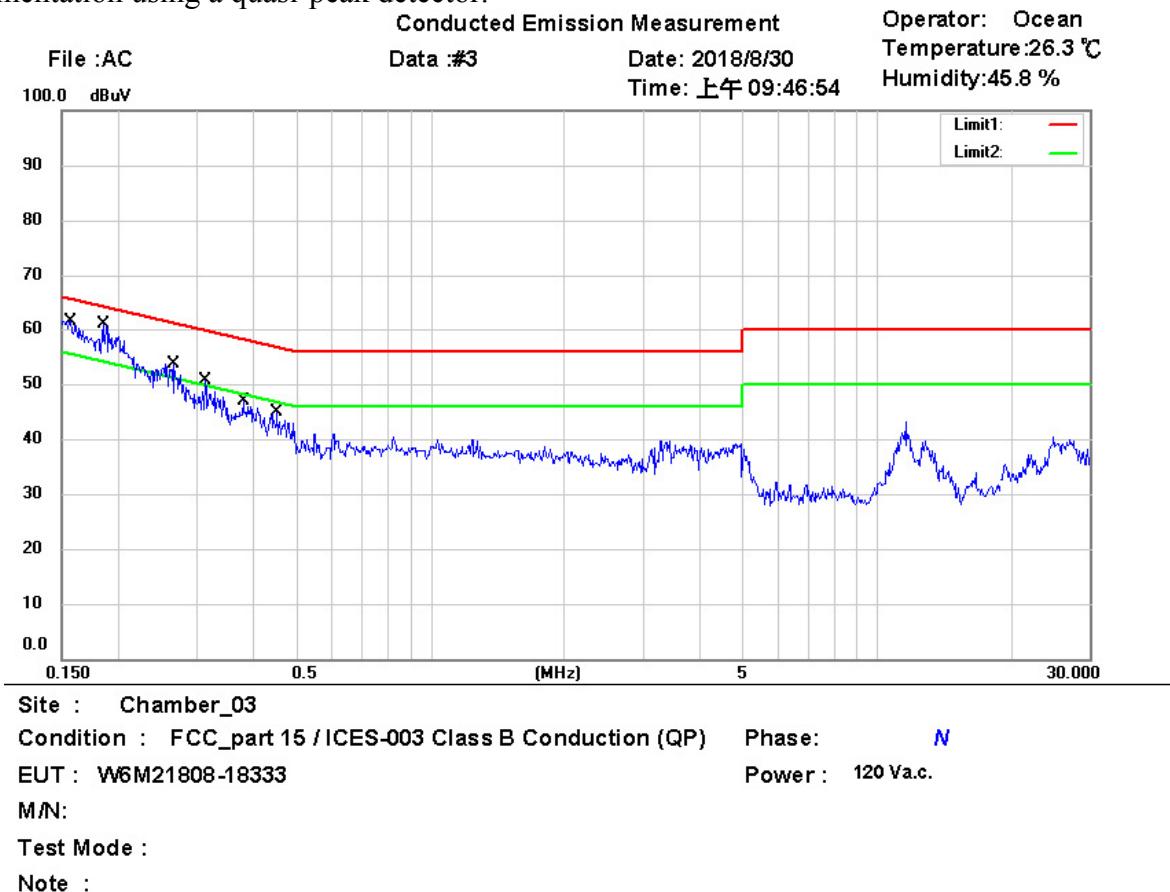
Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

3.8 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

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



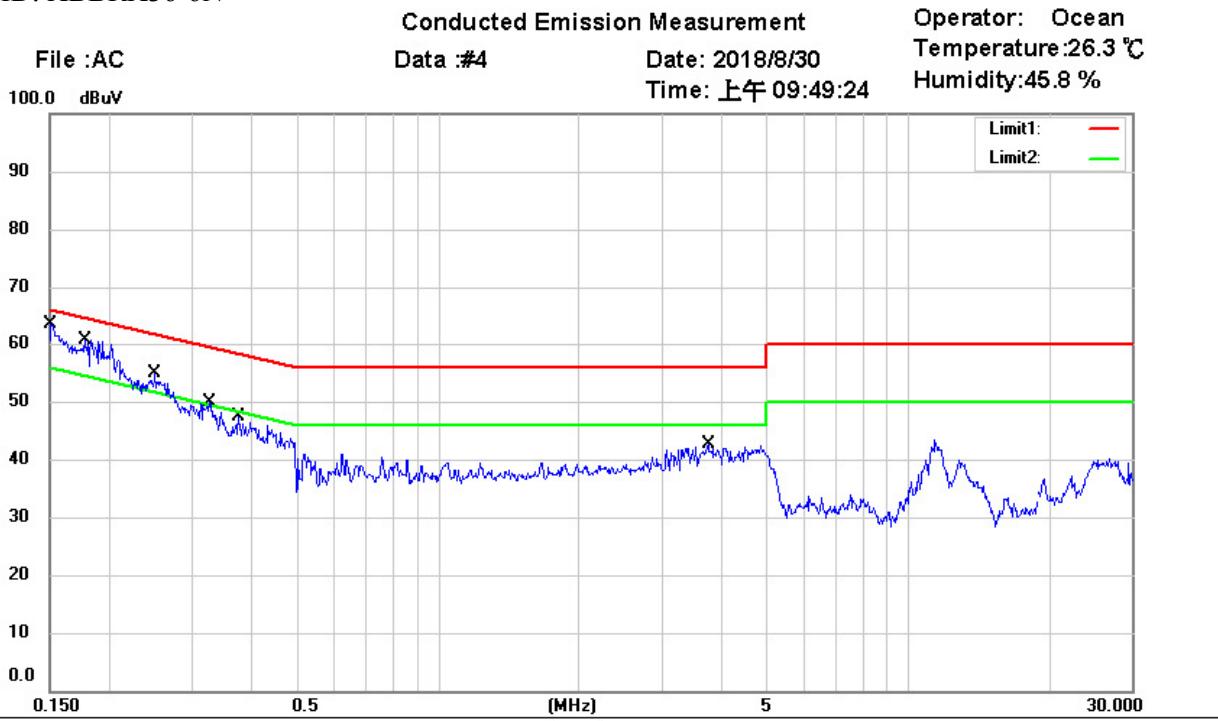
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.1570	38.45	QP	10.22	48.67	65.62	-16.95	
	0.1570	18.88	AVG	10.22	29.10	55.62	-26.52	
*	0.1852	42.37	QP	10.21	52.58	64.25	-11.67	
	0.1852	21.69	AVG	10.21	31.90	54.25	-22.35	
	0.2662	34.81	QP	10.20	45.01	61.24	-16.23	
	0.2662	18.62	AVG	10.20	28.82	51.24	-22.42	
	0.3130	31.57	QP	10.20	41.77	59.89	-18.12	
	0.3130	16.88	AVG	10.20	27.08	49.89	-22.81	
	0.3800	27.33	QP	10.19	37.52	58.28	-20.76	
	0.3800	14.01	AVG	10.19	24.20	48.28	-24.08	
	0.4536	26.52	QP	10.19	36.71	56.81	-20.10	
	0.4536	12.76	AVG	10.19	22.95	46.81	-23.86	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N



Site : Chamber_03

Condition : FCC_part 15 / ICES-003 Class B Conduction (QP) Phase: L1

EUT : W6M21808-18333 Power : 120 V.a.c.

M/N:

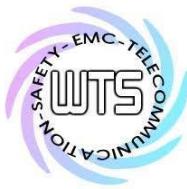
Test Mode :

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.1502	39.83	QP	10.22	50.05	65.99	-15.94	
	0.1502	11.45	AVG	10.22	21.67	55.99	-34.32	
	0.1773	36.19	QP	10.21	46.40	64.61	-18.21	
	0.1773	9.15	AVG	10.21	19.36	54.61	-35.25	
	0.2503	35.11	QP	10.21	45.32	61.75	-16.43	
	0.2503	17.03	AVG	10.21	27.24	51.75	-24.51	
	0.3260	29.60	QP	10.20	39.80	59.55	-19.75	
	0.3260	14.86	AVG	10.20	25.06	49.55	-24.49	
	0.3766	25.31	QP	10.20	35.51	58.35	-22.84	
	0.3766	11.31	AVG	10.20	21.51	48.35	-26.84	
	3.7490	22.14	QP	10.34	32.48	56.00	-23.52	
	3.7490	14.04	AVG	10.34	24.38	46.00	-21.62	

Note

1. The formula of measured value as: Test Result = Reading + Correction Factor
2. The Correction Factor = Cable Loss + LISN Insertion 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. Measurement uncertainty = ± 1.54 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.
6. Up Line: QP Limit Line, Down Line: Ave Limit Line.



Worldwide Testing Services(Taiwan) Co., Ltd.

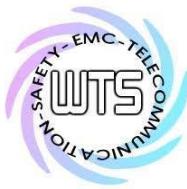
Registration number: W6M21808-18333-C-1

FCC ID: XBBRX36-6N

Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21808-18333-C-1
FCC ID: XBBRX36-6N

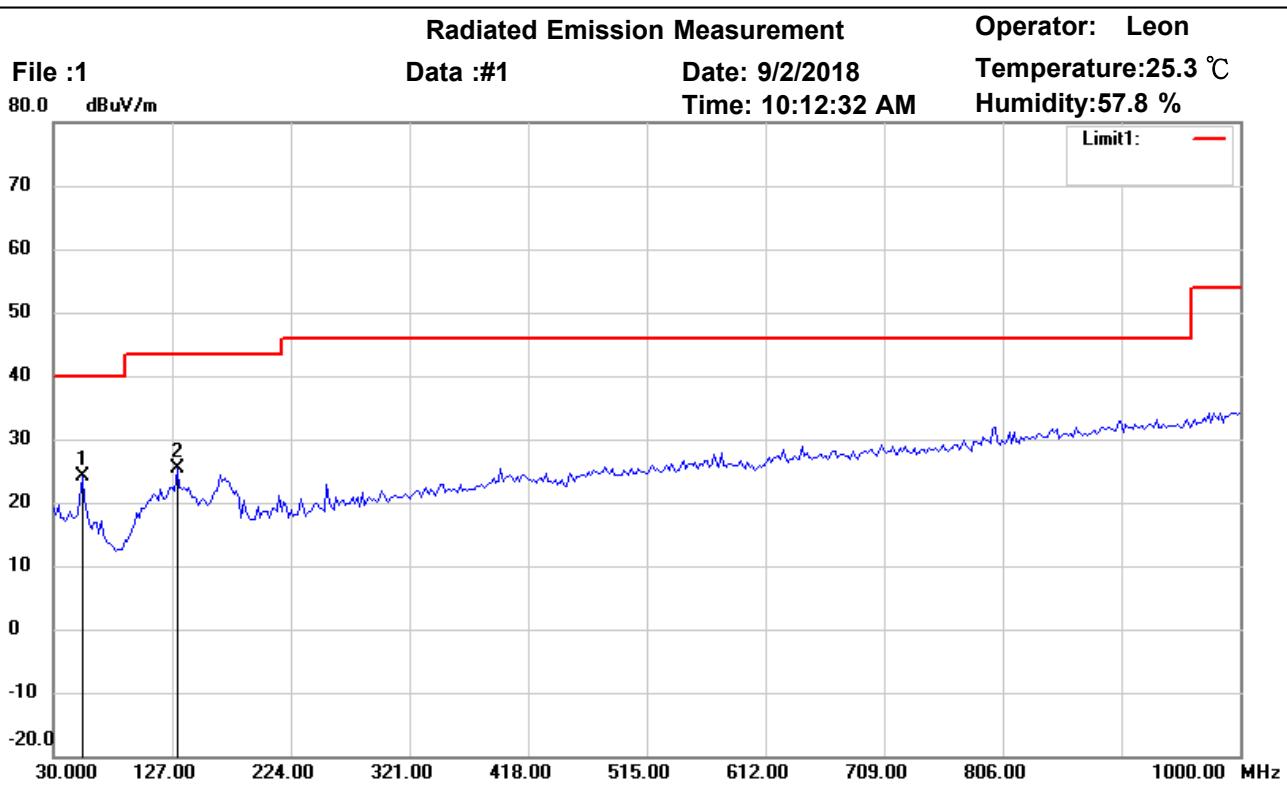
Appendix

Measurement diagrams

Spurious Emissions radiated



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



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

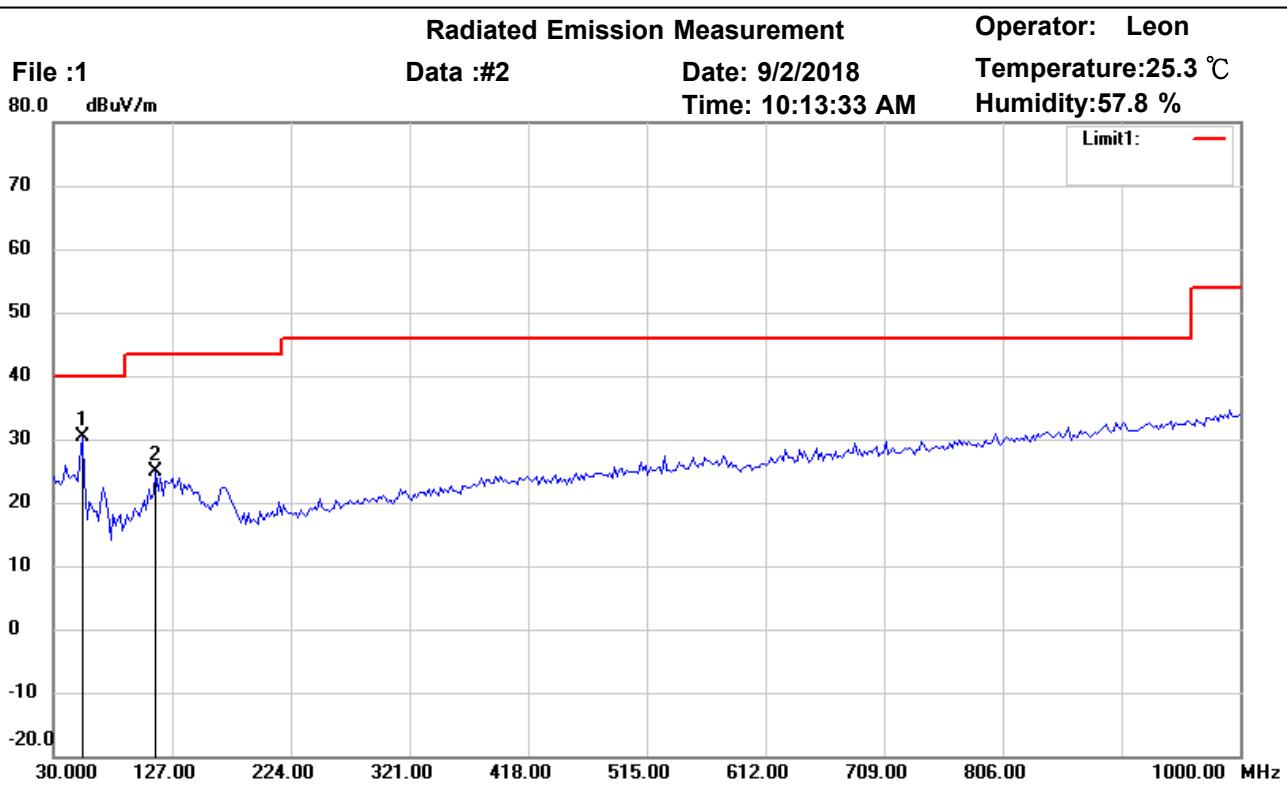
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	34.56	peak	-10.53	24.03	40.00	100	245	-15.97	
	131.0822	31.68	peak	-6.32	25.36	43.50	100	35	-18.14	



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



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

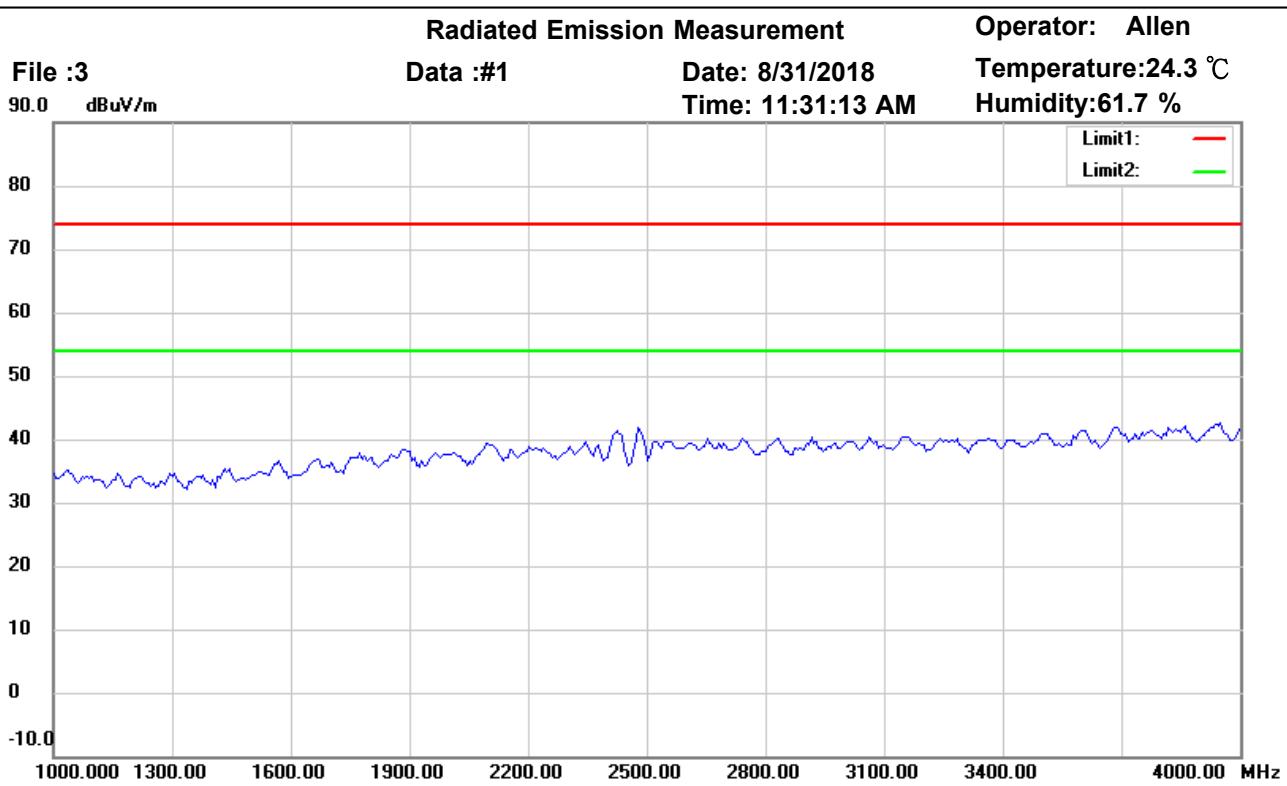
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	40.92	peak	-10.53	30.39	40.00	100	165	-9.61	
	113.5872	31.90	peak	-7.11	24.79	43.50	100	230	-18.71	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

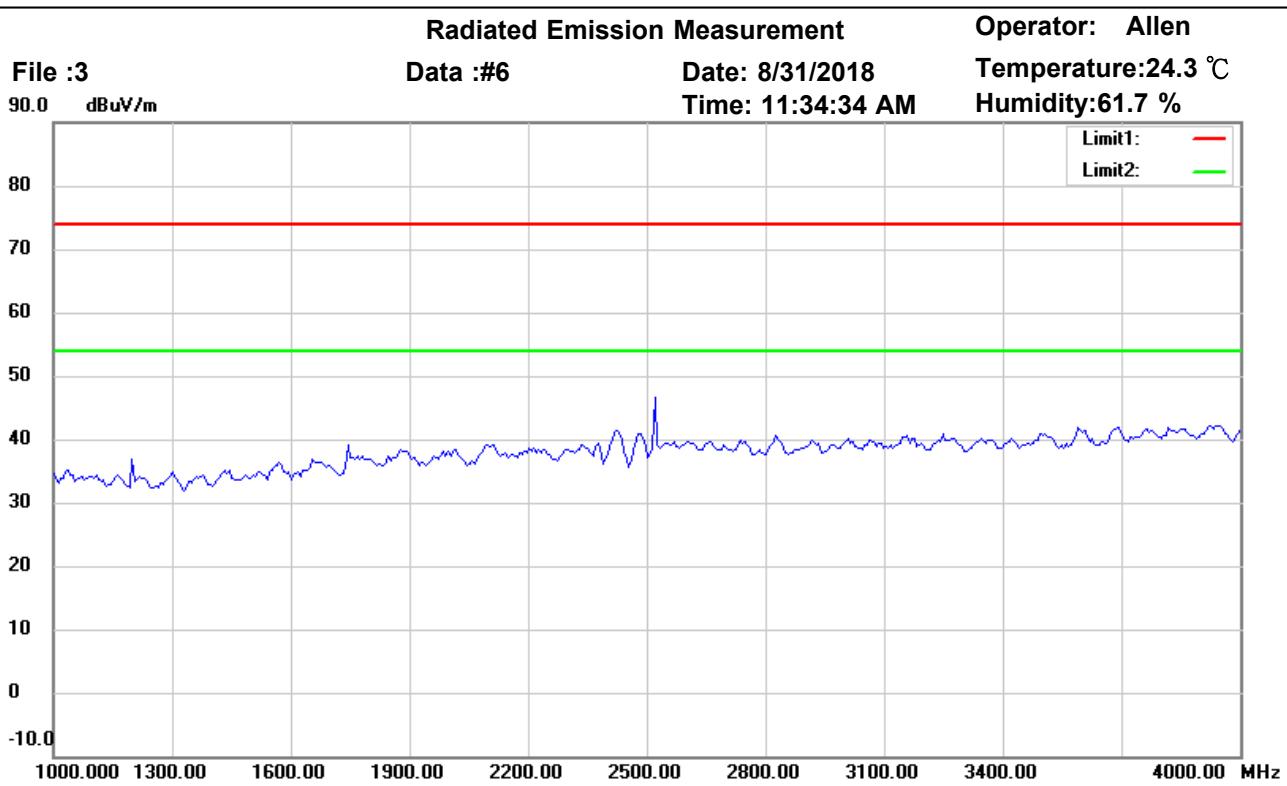
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

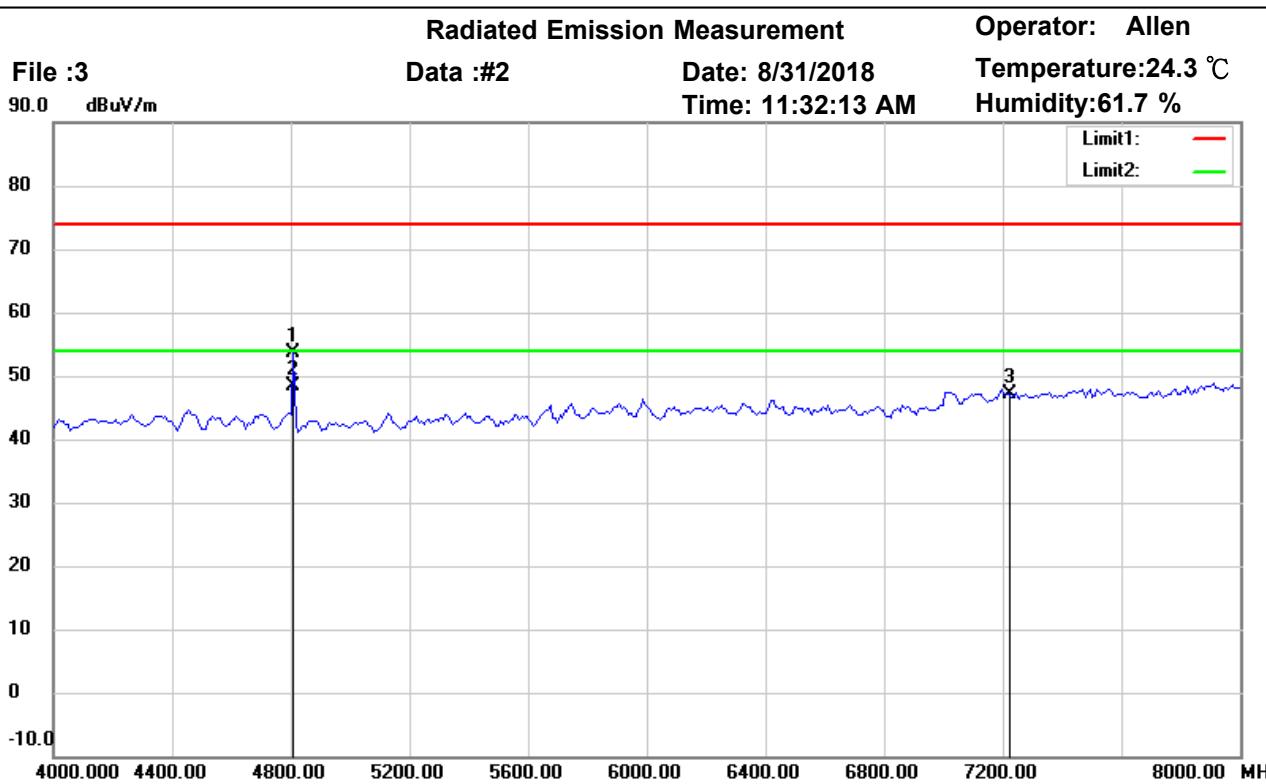
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

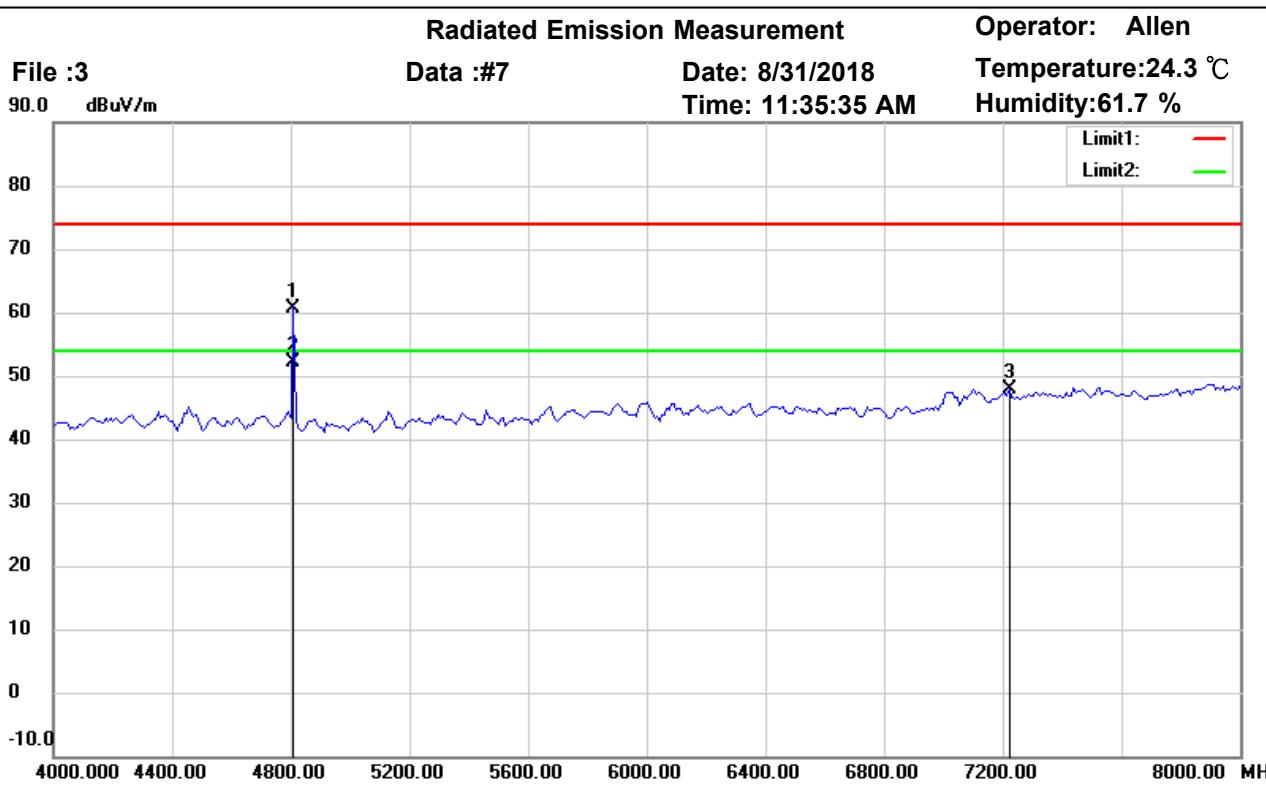
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4809.619	52.99	peak	0.74	53.73	74.00	150	250	-20.27	
*	4809.619	47.63	AVG	0.74	48.37	54.00	150	250	-5.63	
	7218.000	41.78	peak	5.40	47.18	74.00	150	145	-26.82	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

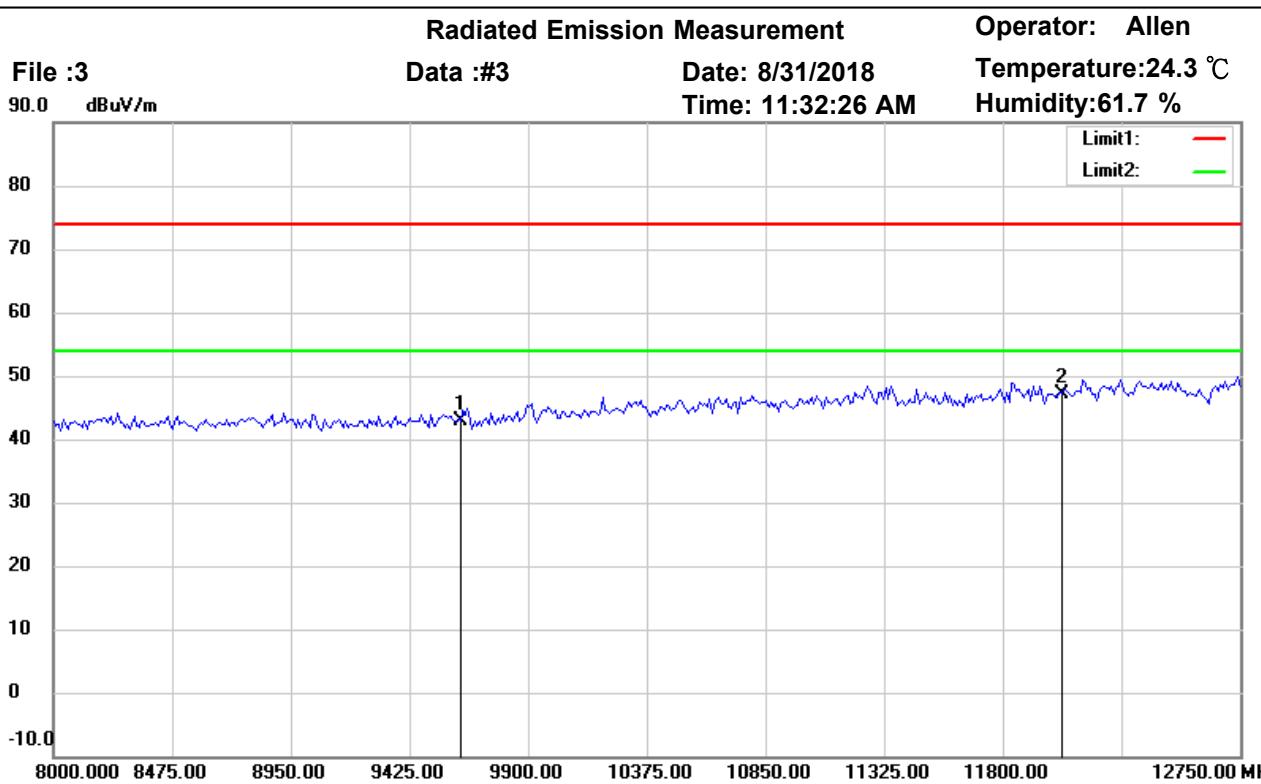
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4809.619	59.96	peak	0.74	60.70	74.00	150	220	-13.30	
*	4809.619	51.37	AVG	0.74	52.11	54.00	150	220	-1.89	
	7218.000	42.45	peak	5.40	47.85	74.00	150	315	-26.15	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

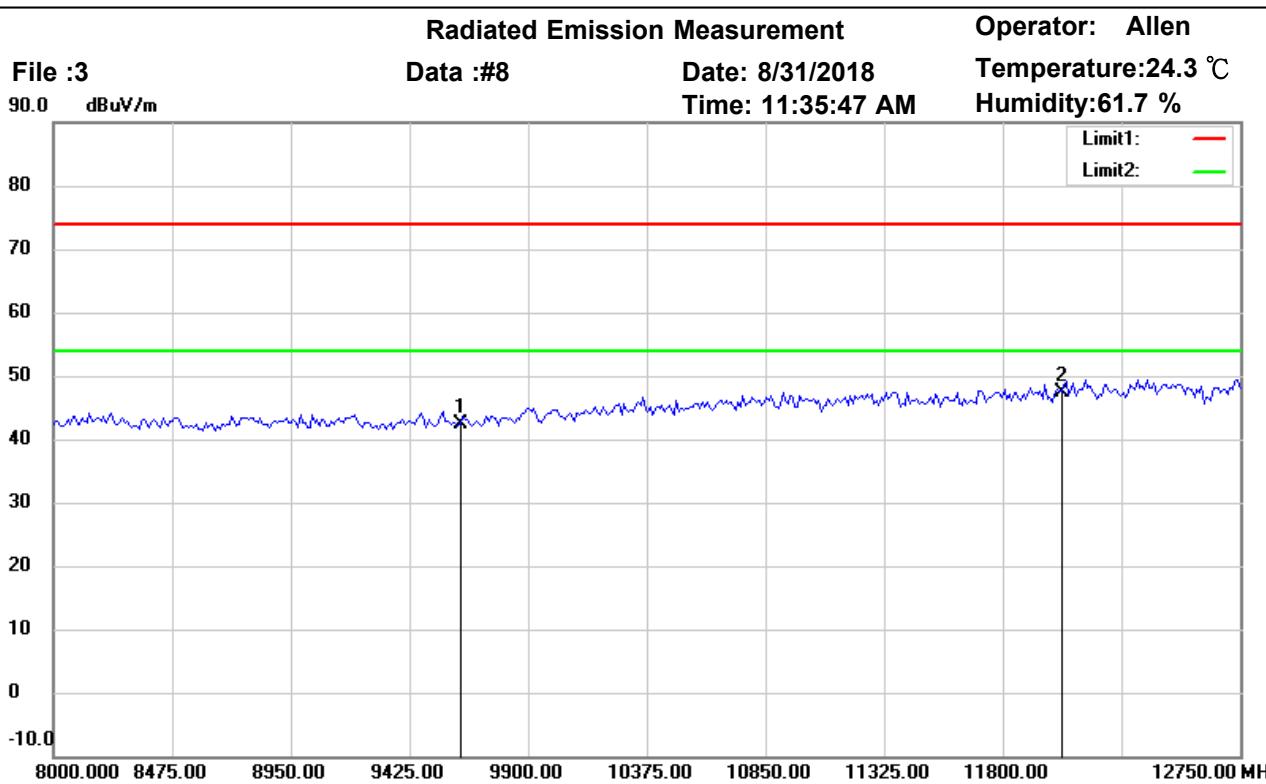
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9624.000	34.53	peak	8.26	42.79	74.00	150	200	-31.21	
*	12030.000	33.37	peak	13.77	47.14	74.00	150	175	-26.86	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

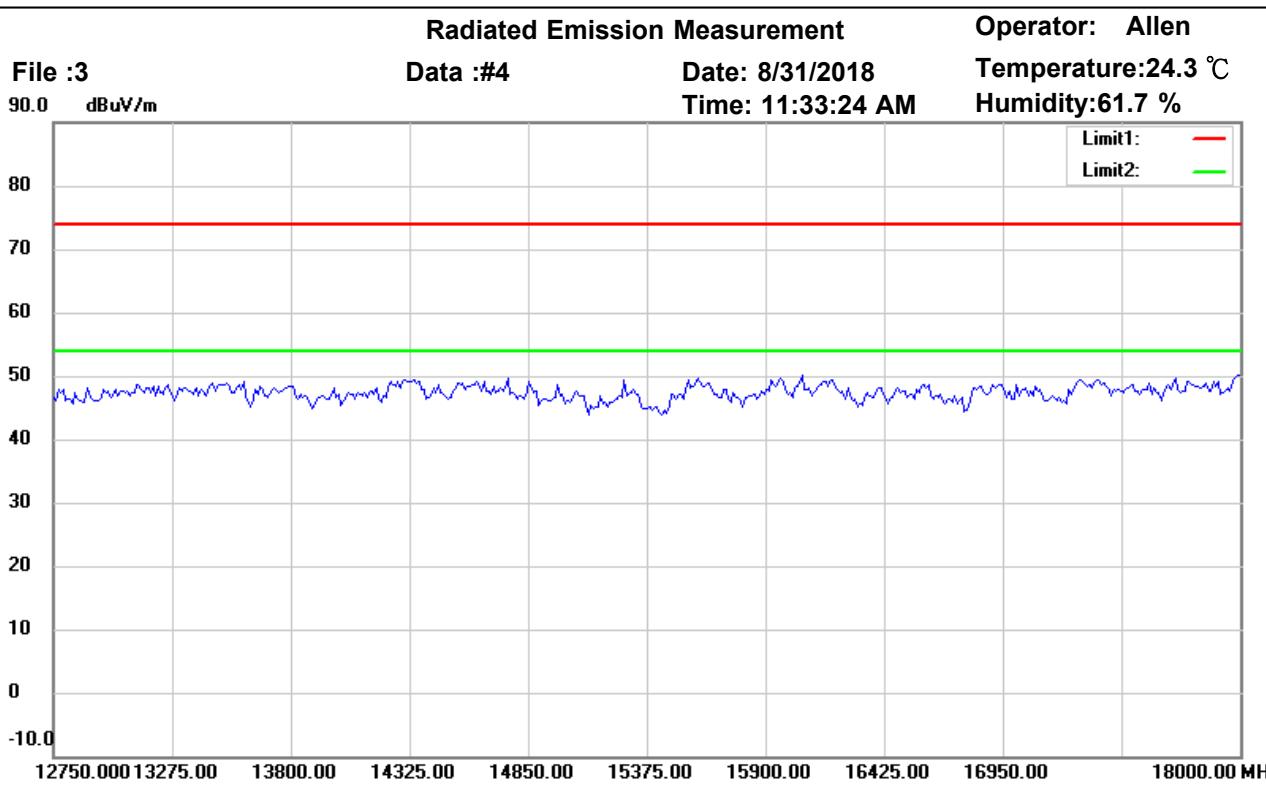
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9624.000	34.21	peak	8.26	42.47	74.00	150	330	-31.53	
*	12030.000	33.49	peak	13.77	47.26	74.00	150	180	-26.74	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

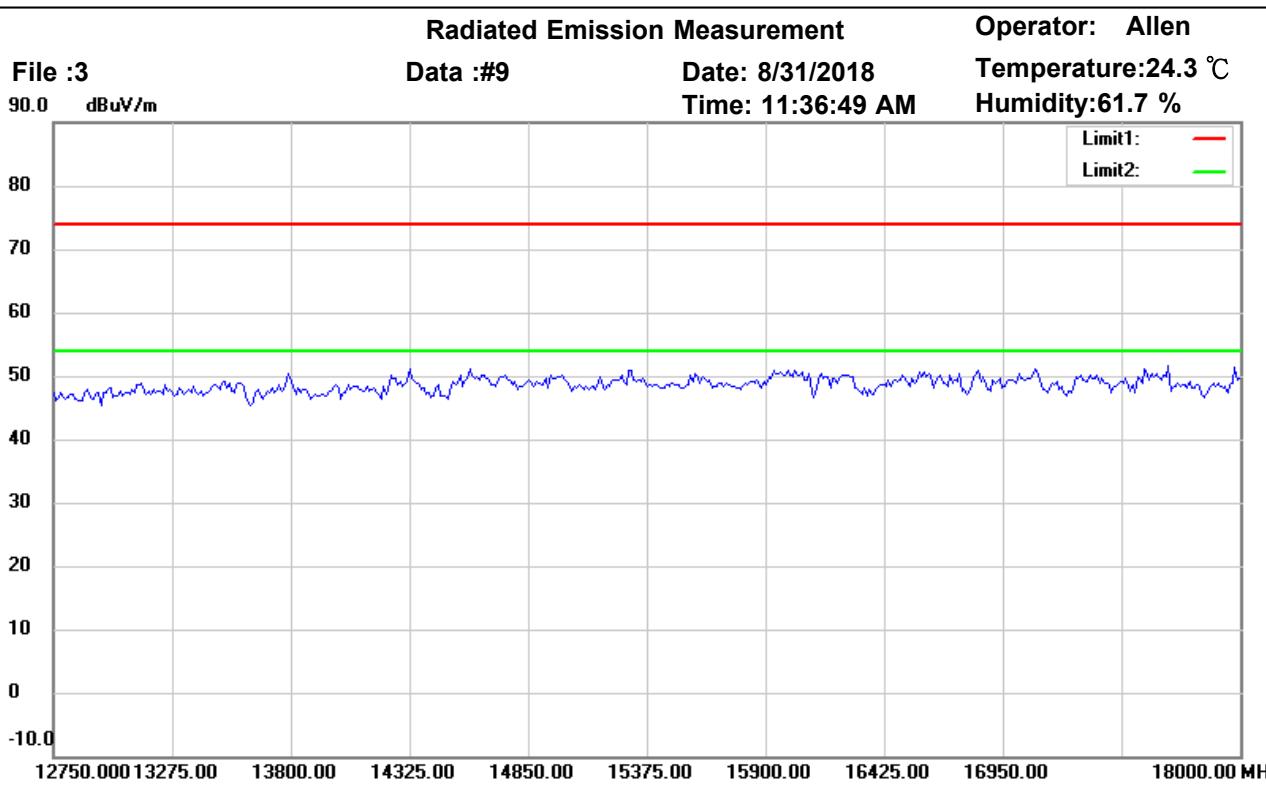
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

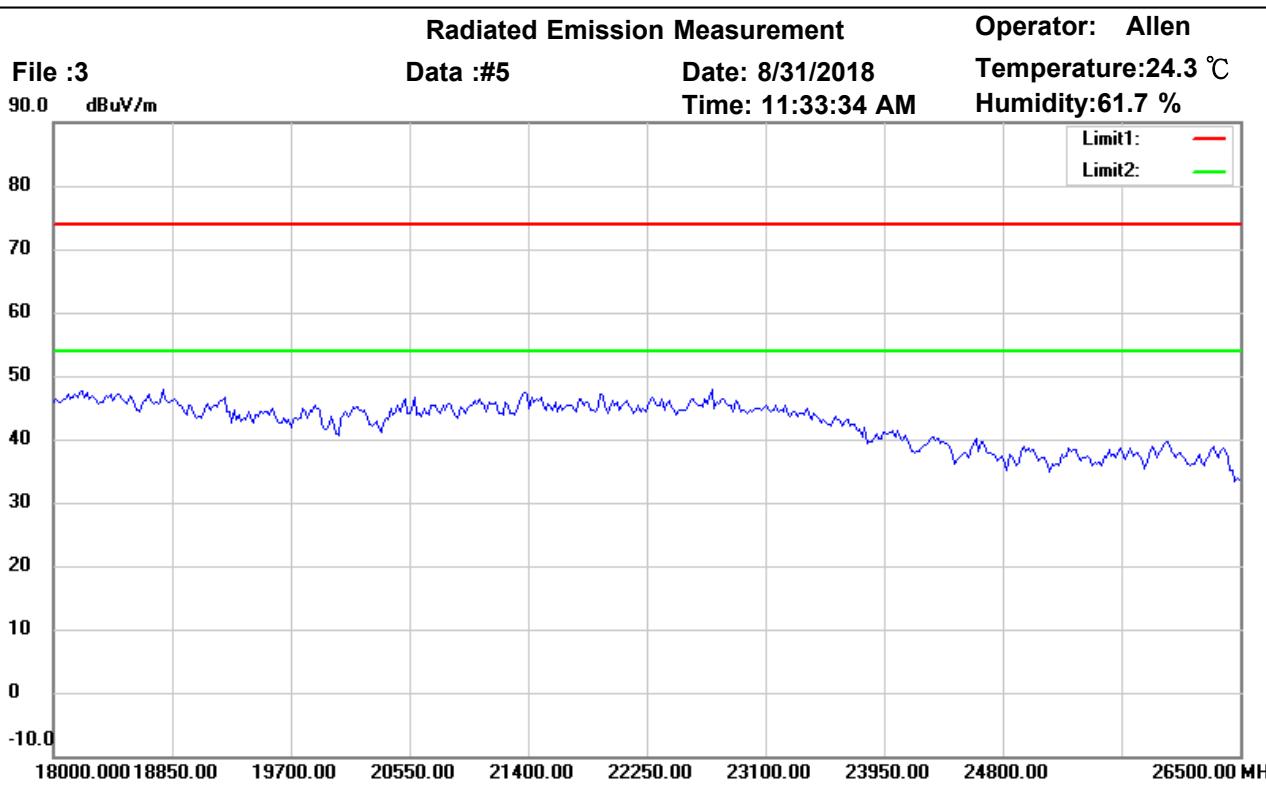
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

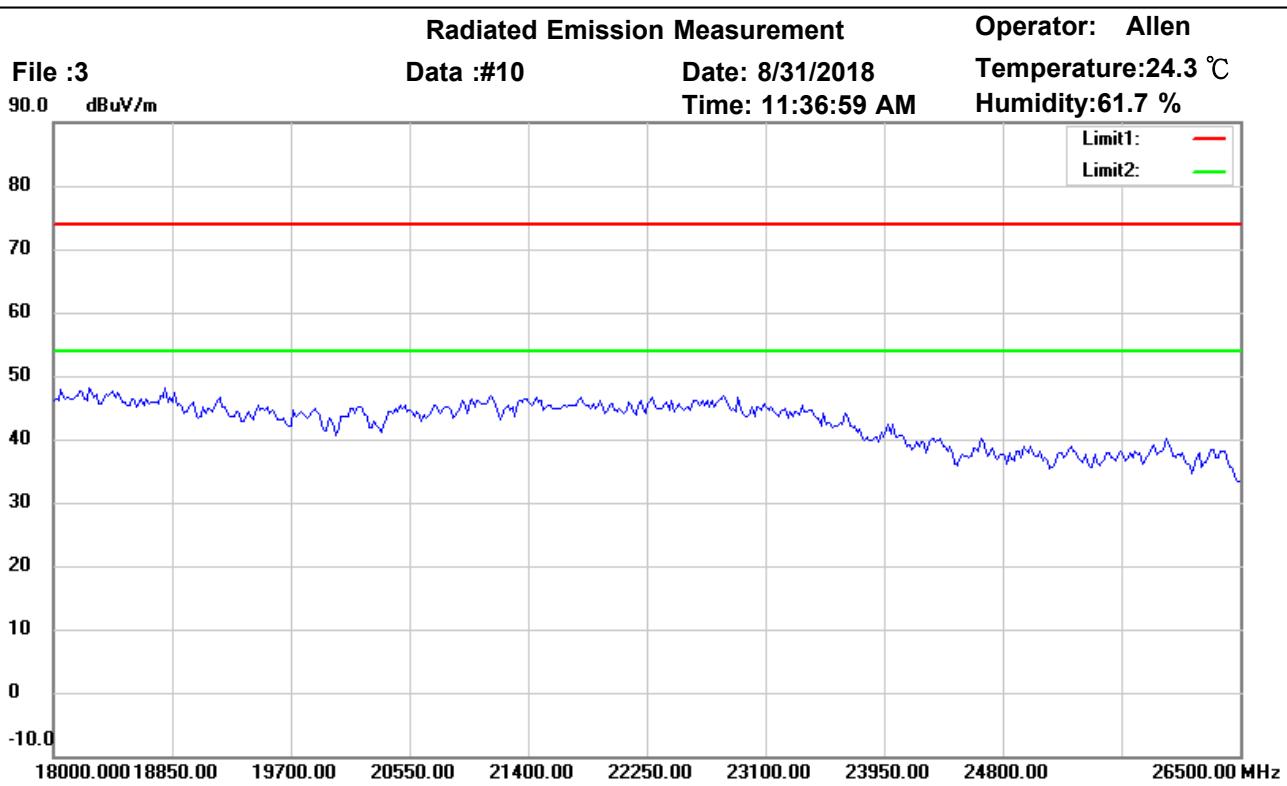
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

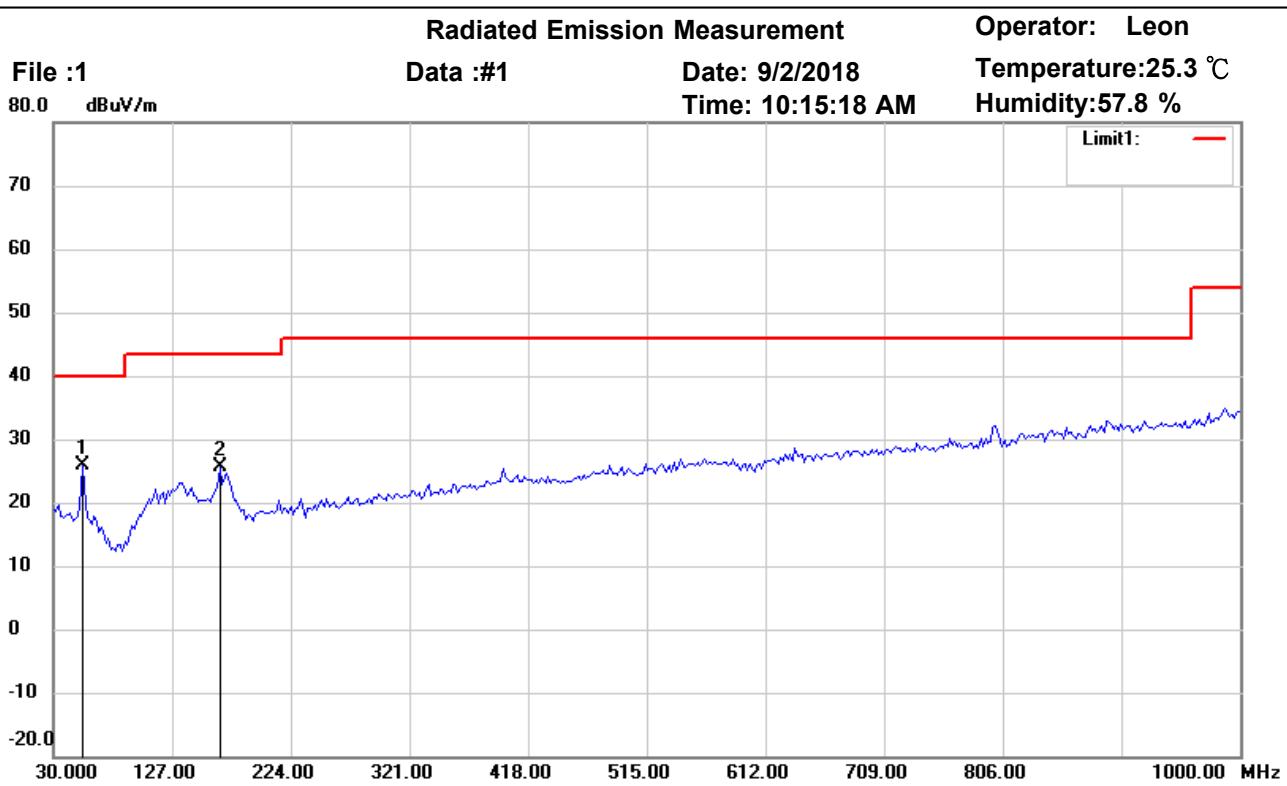
Test Mode : TX 2406MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

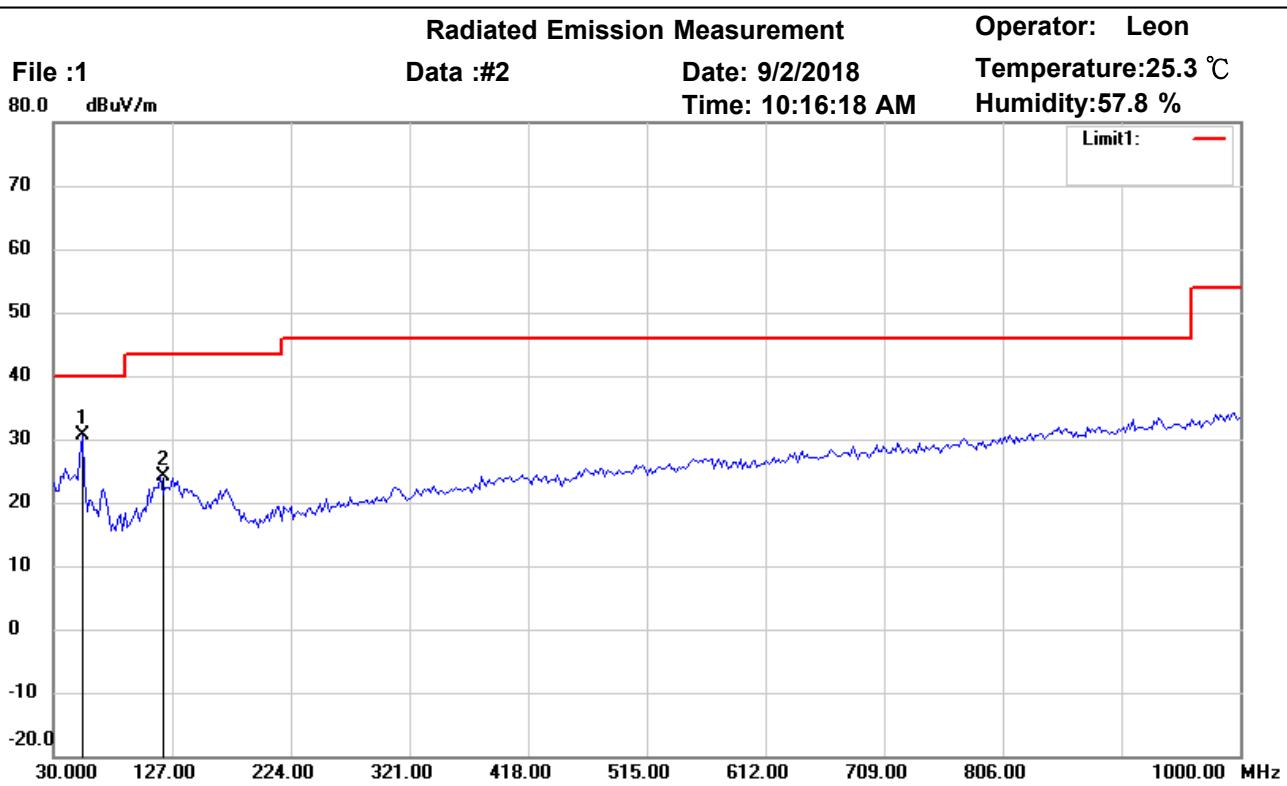
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	36.33	peak	-10.53	25.80	40.00	100	55	-14.20	
	166.0721	35.05	peak	-9.43	25.62	43.50	100	246	-17.88	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

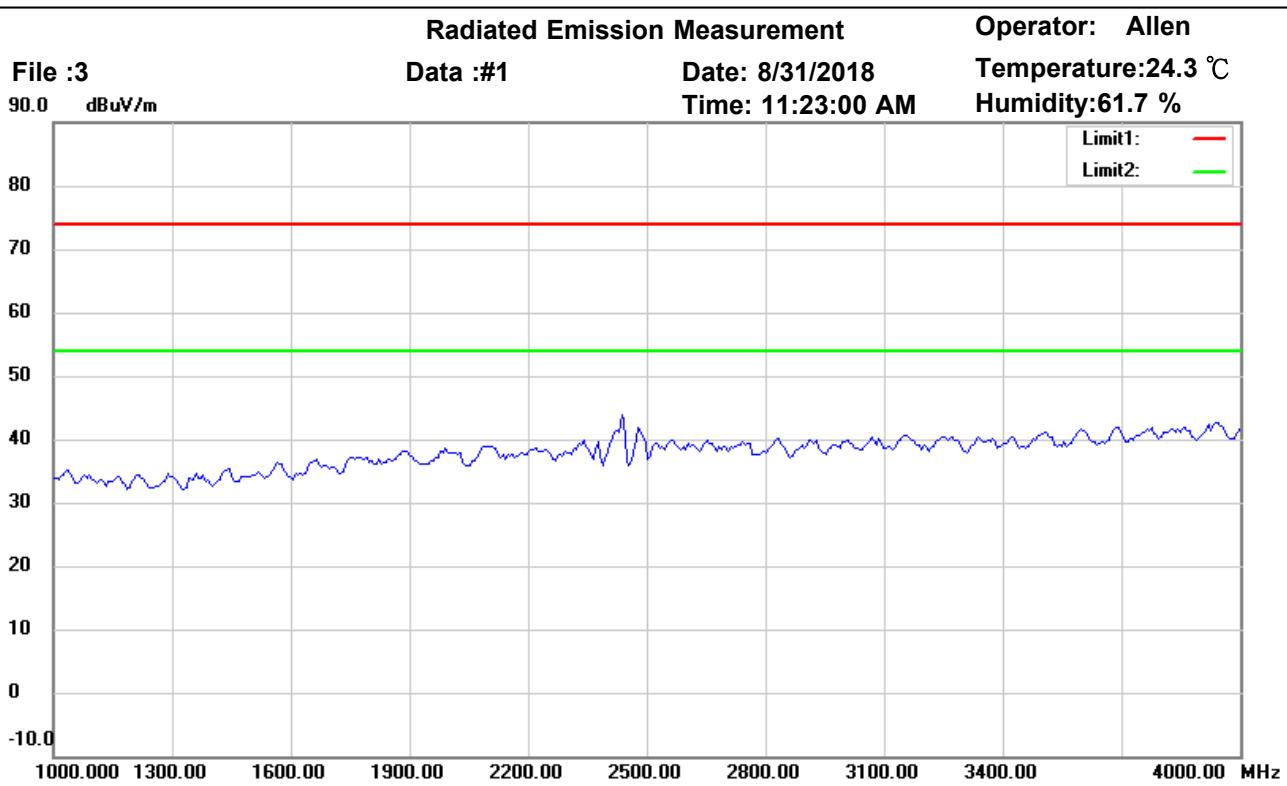
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	41.28	peak	-10.53	30.75	40.00	100	65	-9.25	
	117.4750	31.02	peak	-6.79	24.23	43.50	100	240	-19.27	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

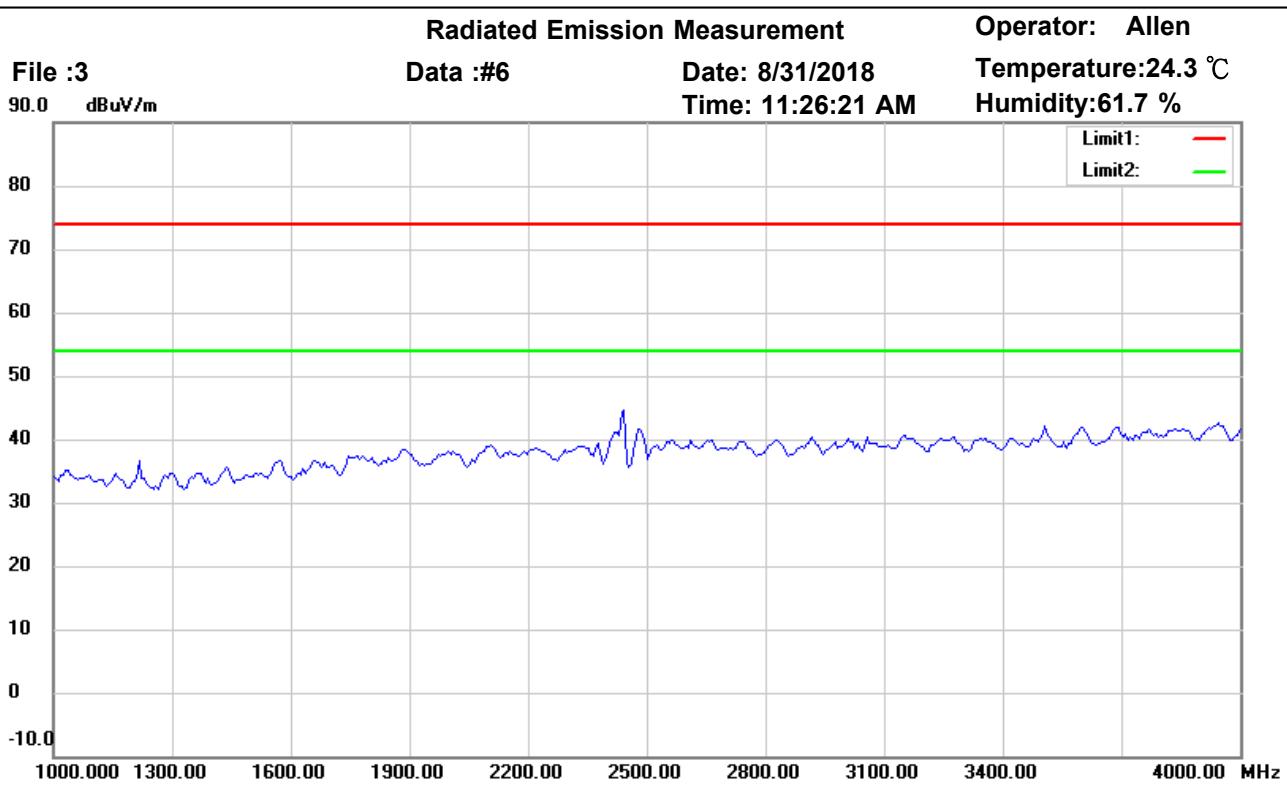
Test Mode : TX 2440MHz

Note :

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



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

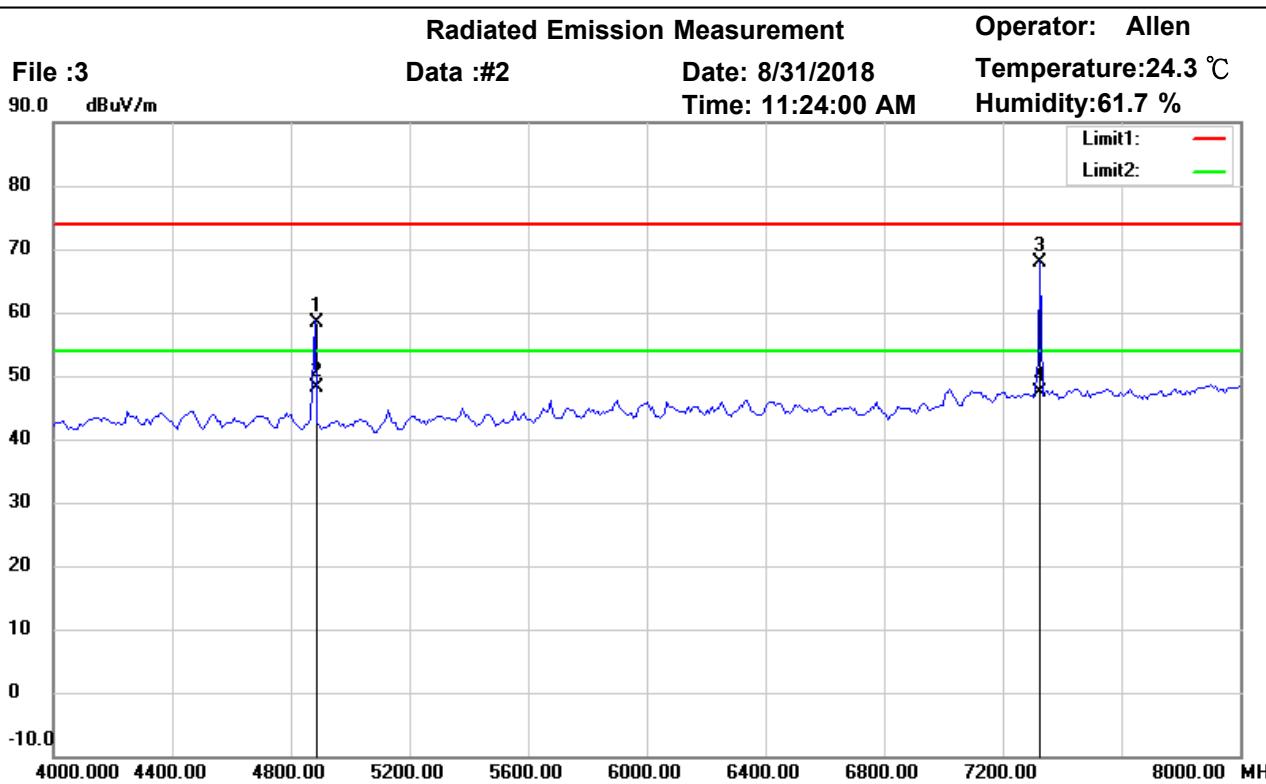
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

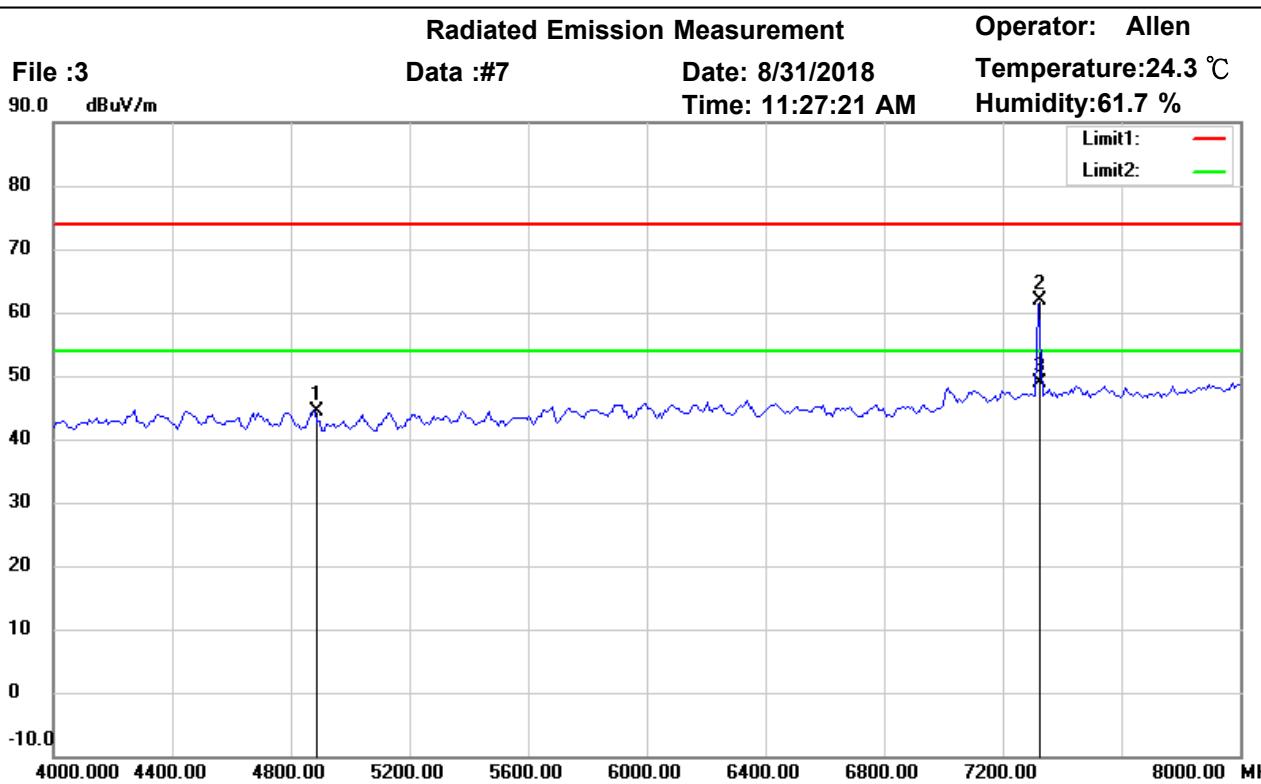
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4881.764	57.64	peak	0.68	58.32	74.00	150	240	-15.68	
*	4881.764	47.34	AVG	0.68	48.02	54.00	150	240	-5.98	
	7326.653	62.33	peak	5.66	67.99	74.00	150	165	-6.01	
	7326.653	41.78	AVG	5.66	47.44	54.00	150	165	-6.56	



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Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

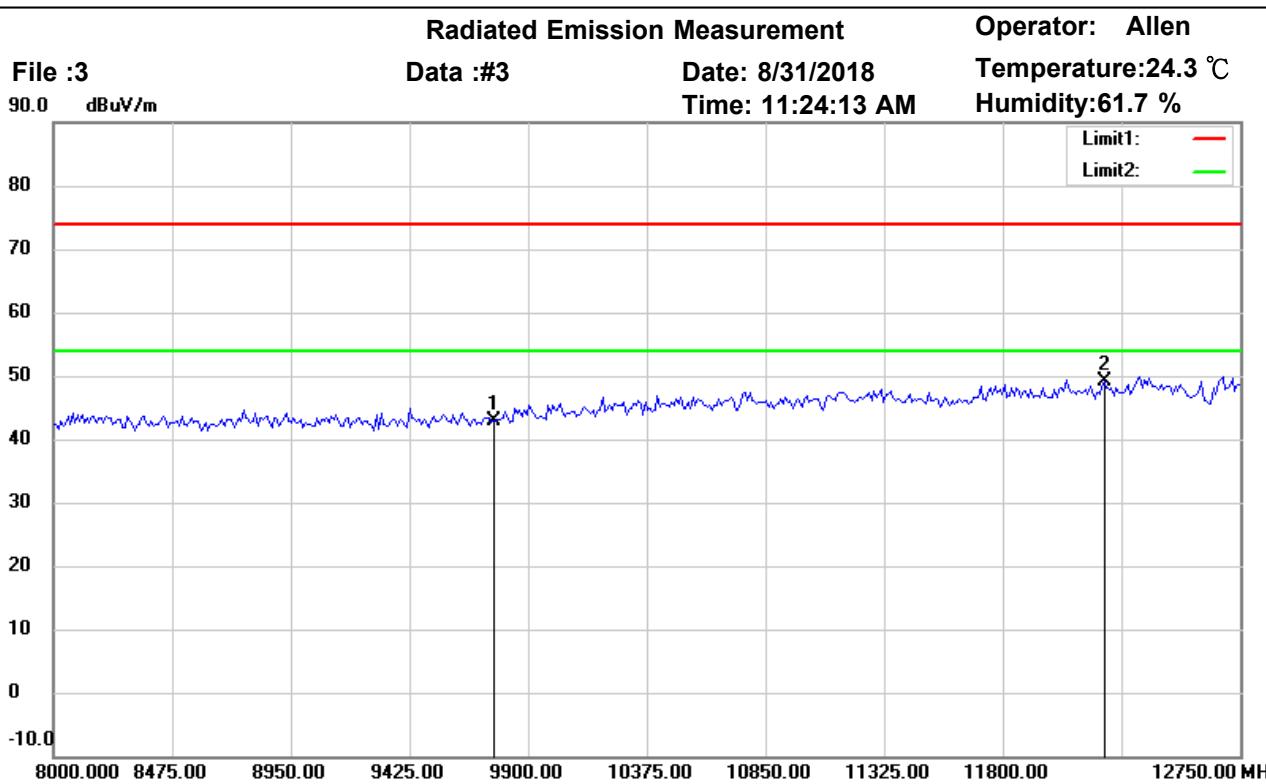
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4881.764	43.76	peak	0.68	44.44	74.00	150	230	-29.56	
	7326.653	56.13	peak	5.66	61.79	74.00	150	310	-12.21	
*	7326.653	43.27	AVG	5.66	48.93	54.00	150	310	-5.07	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

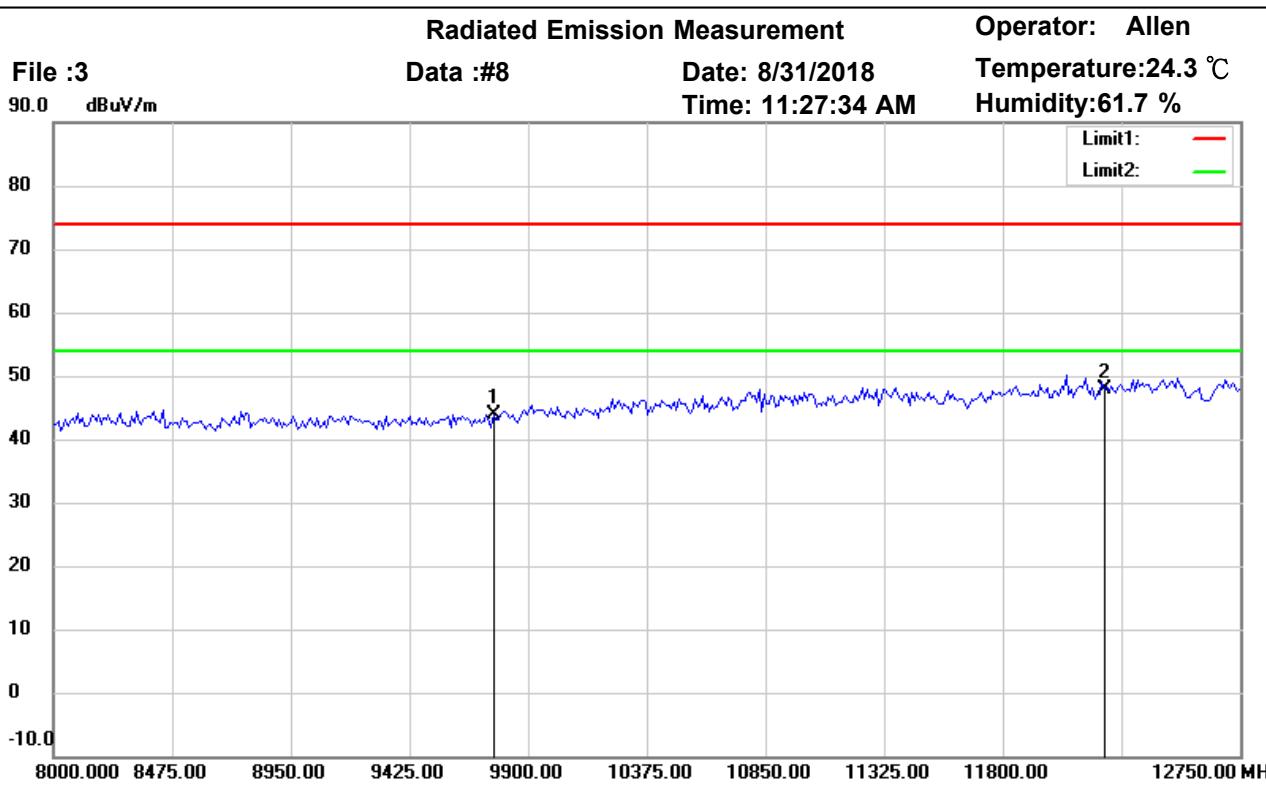
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	34.21	peak	8.64	42.85	74.00	150	90	-31.15	
*	12200.000	33.84	peak	15.24	49.08	74.00	150	185	-24.92	



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Site : Chamber

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Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

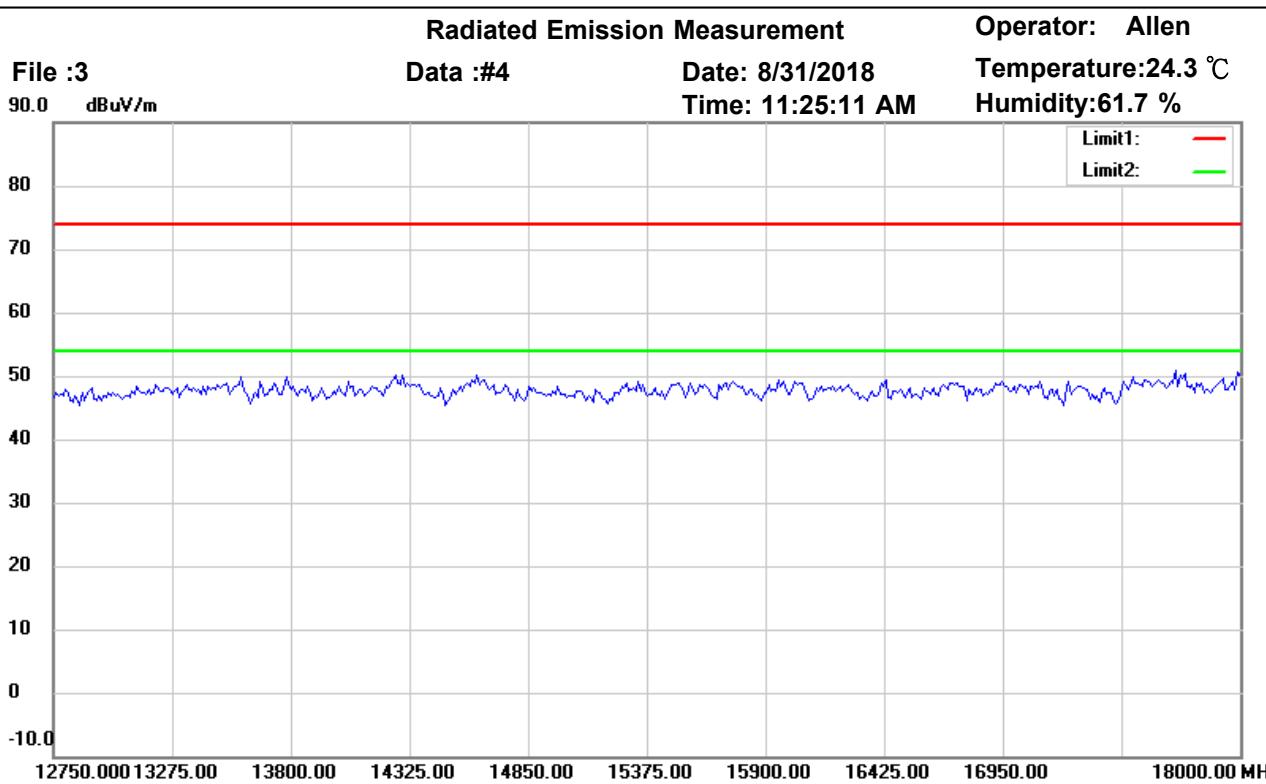
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9760.000	35.20	peak	8.64	43.84	74.00	150	230	-30.16	
*	12200.000	32.66	peak	15.24	47.90	74.00	150	165	-26.10	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

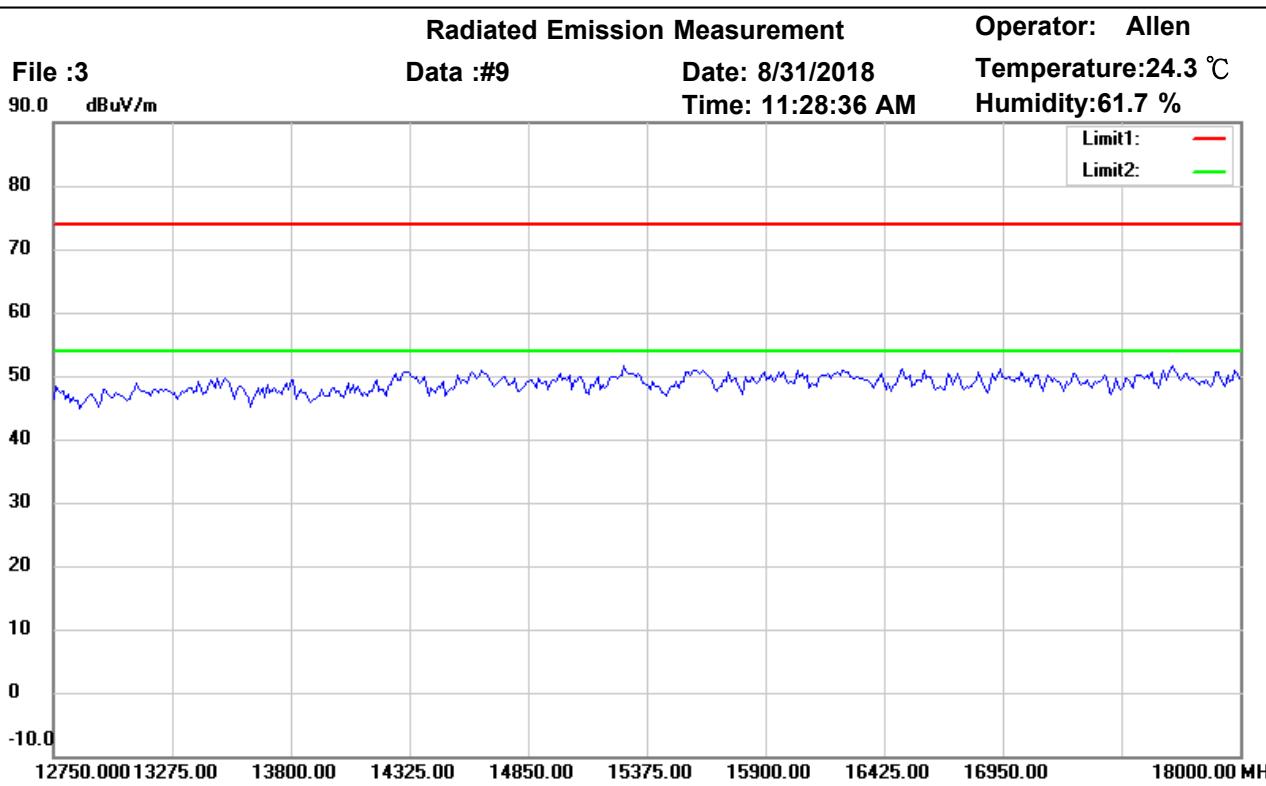
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

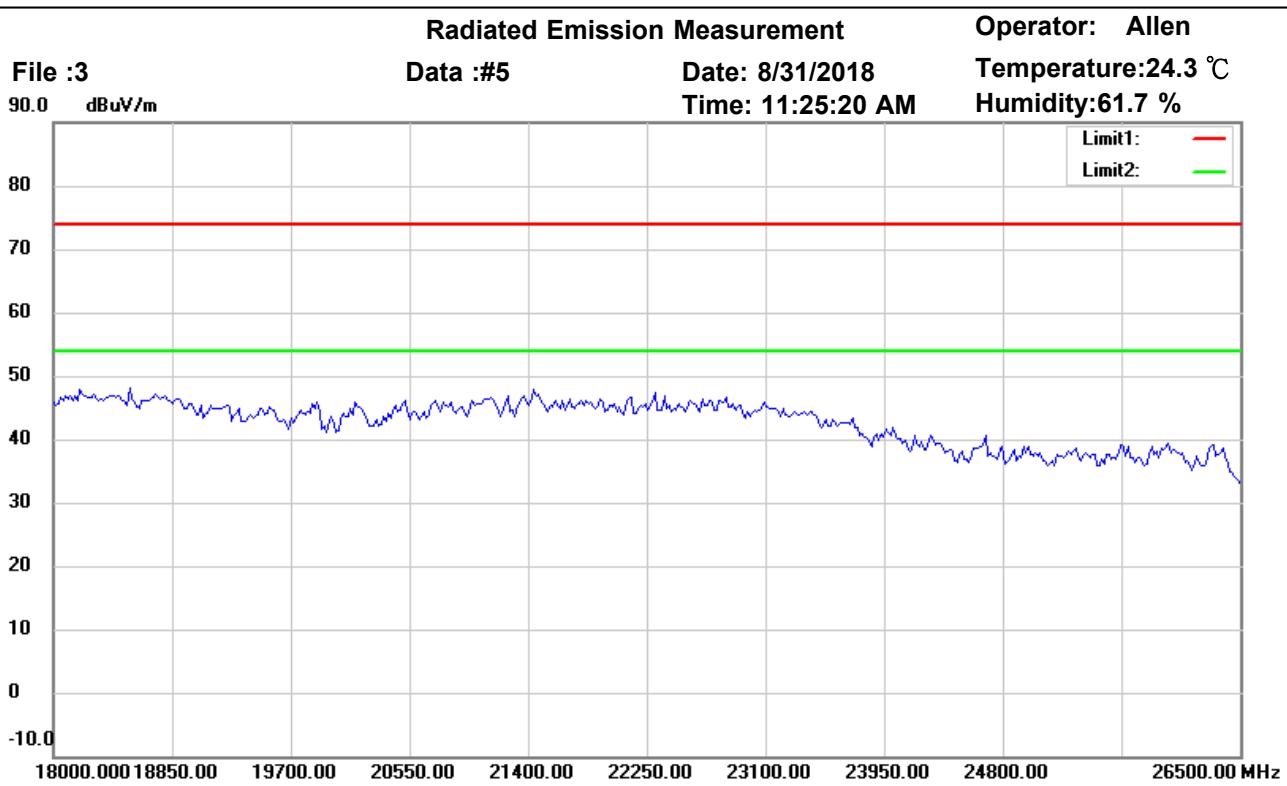
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

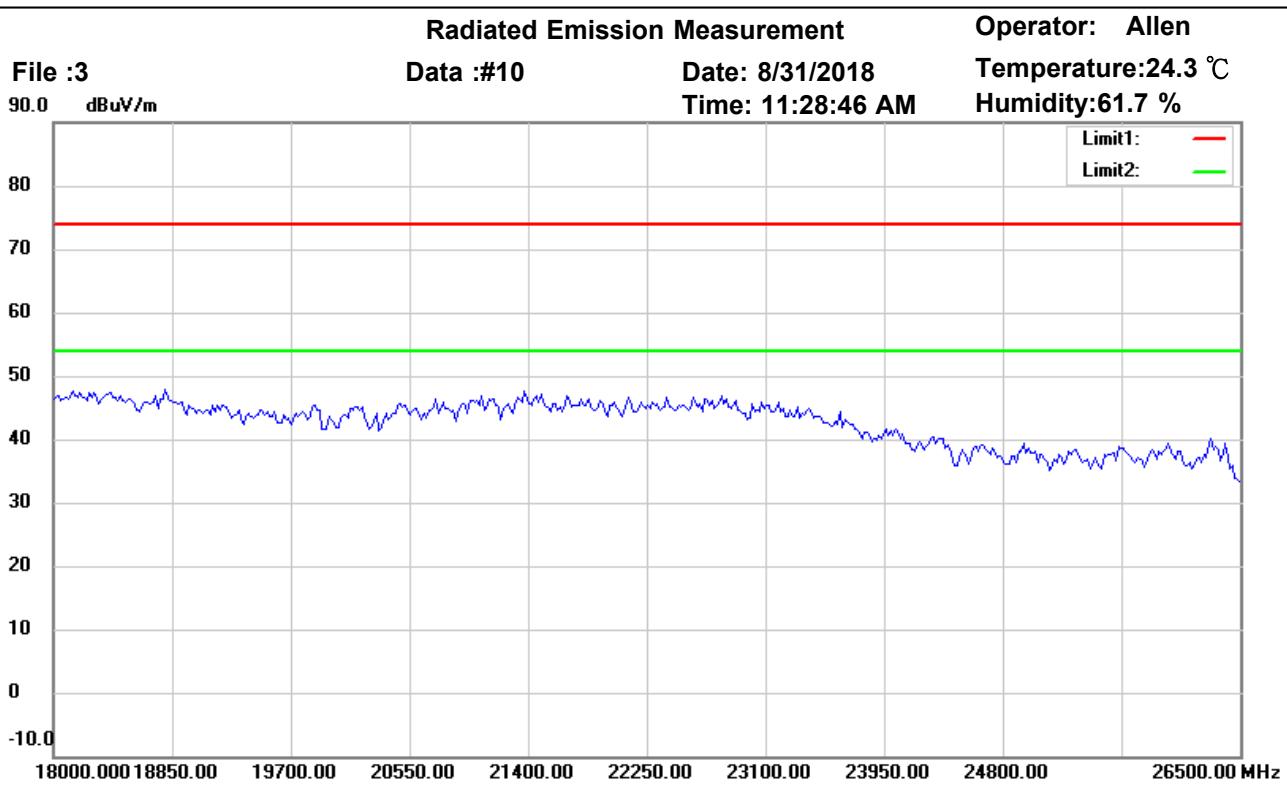
Test Mode : TX 2440MHz

Note :

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



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

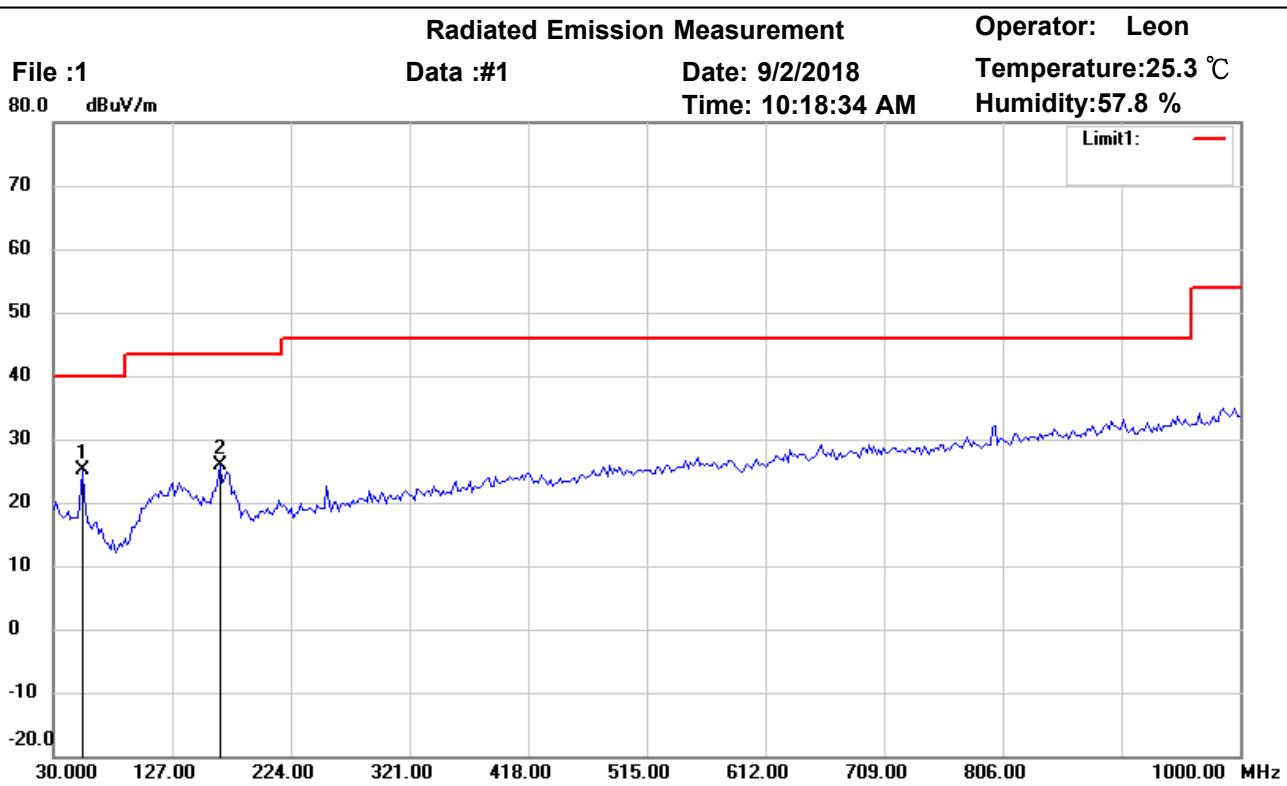
Test Mode : TX 2440MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

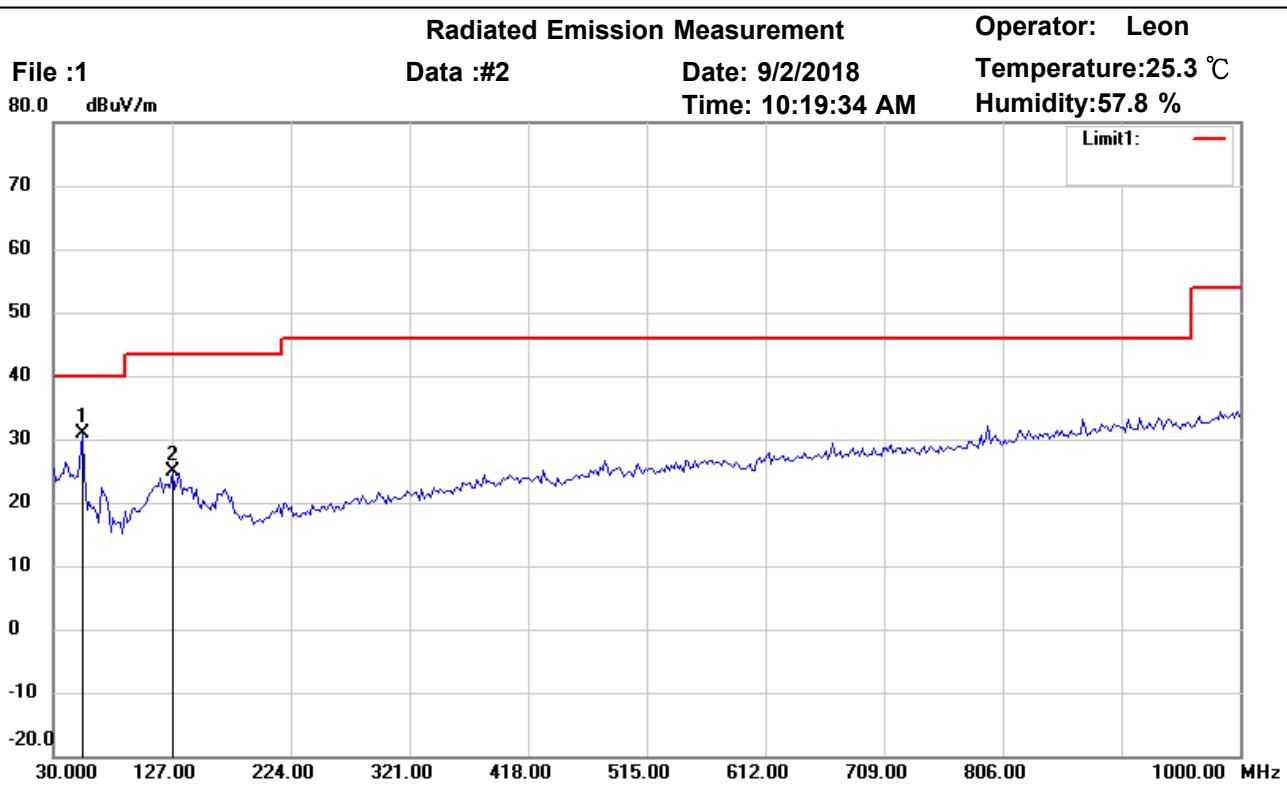
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	35.59	peak	-10.53	25.06	40.00	100	40	-14.94	
	166.0721	35.38	peak	-9.43	25.95	43.50	100	275	-17.55	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

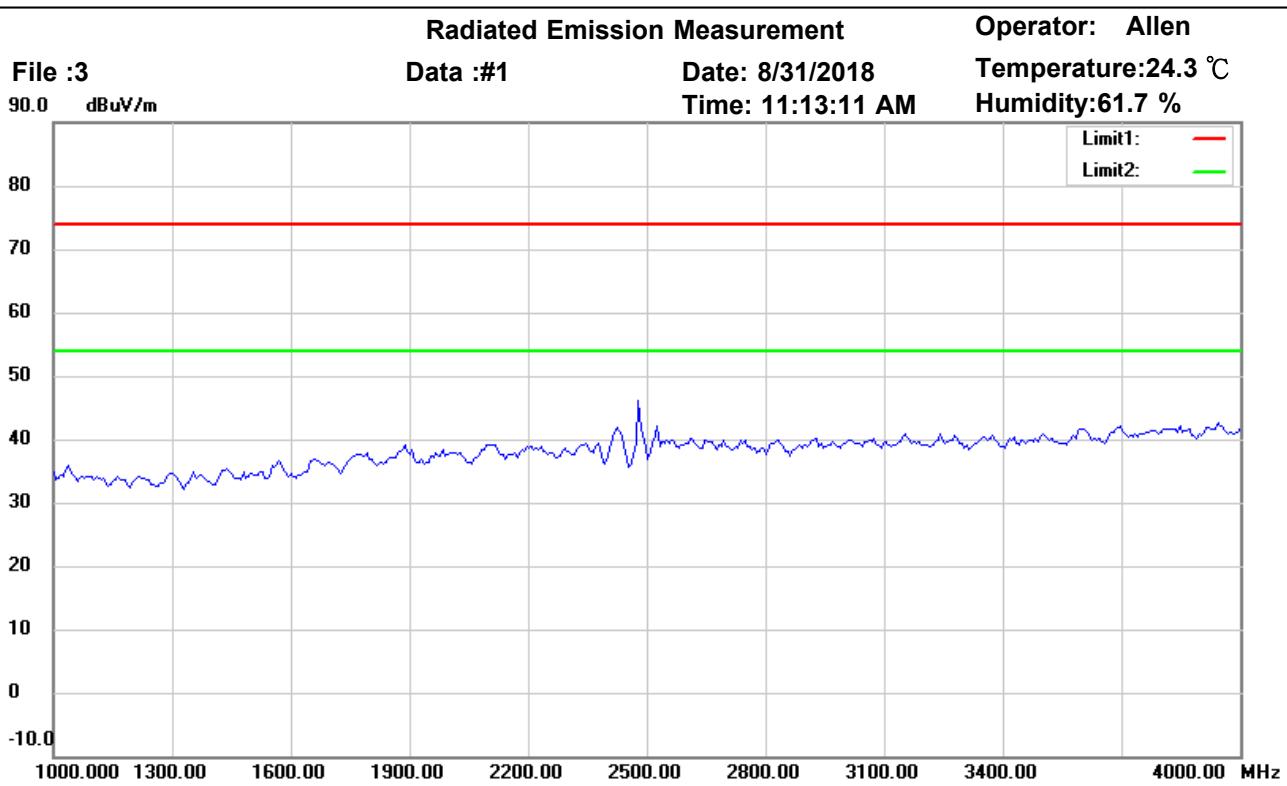
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	53.3267	41.52	peak	-10.53	30.99	40.00	100	35	-9.01	
	127.1944	31.30	peak	-6.39	24.91	43.50	100	260	-18.59	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

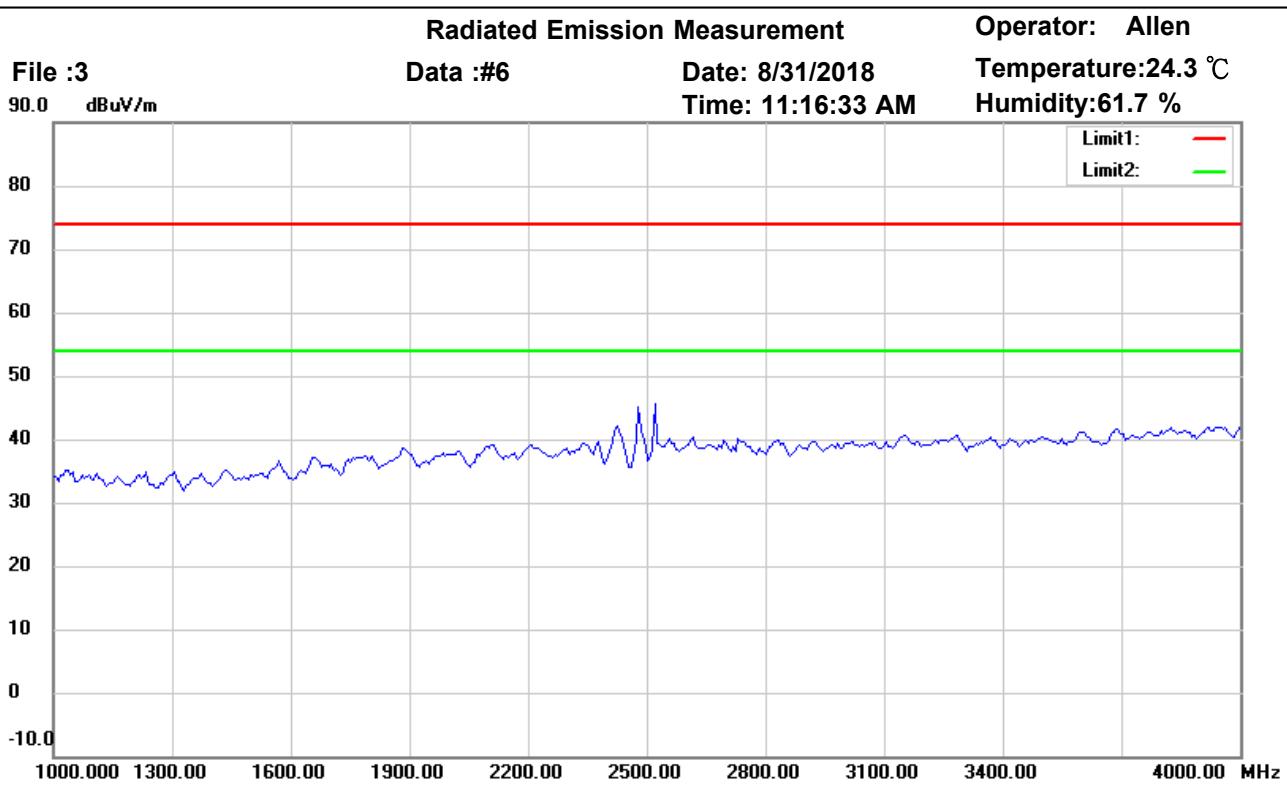
Test Mode : TX 2478MHz

Note :

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



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

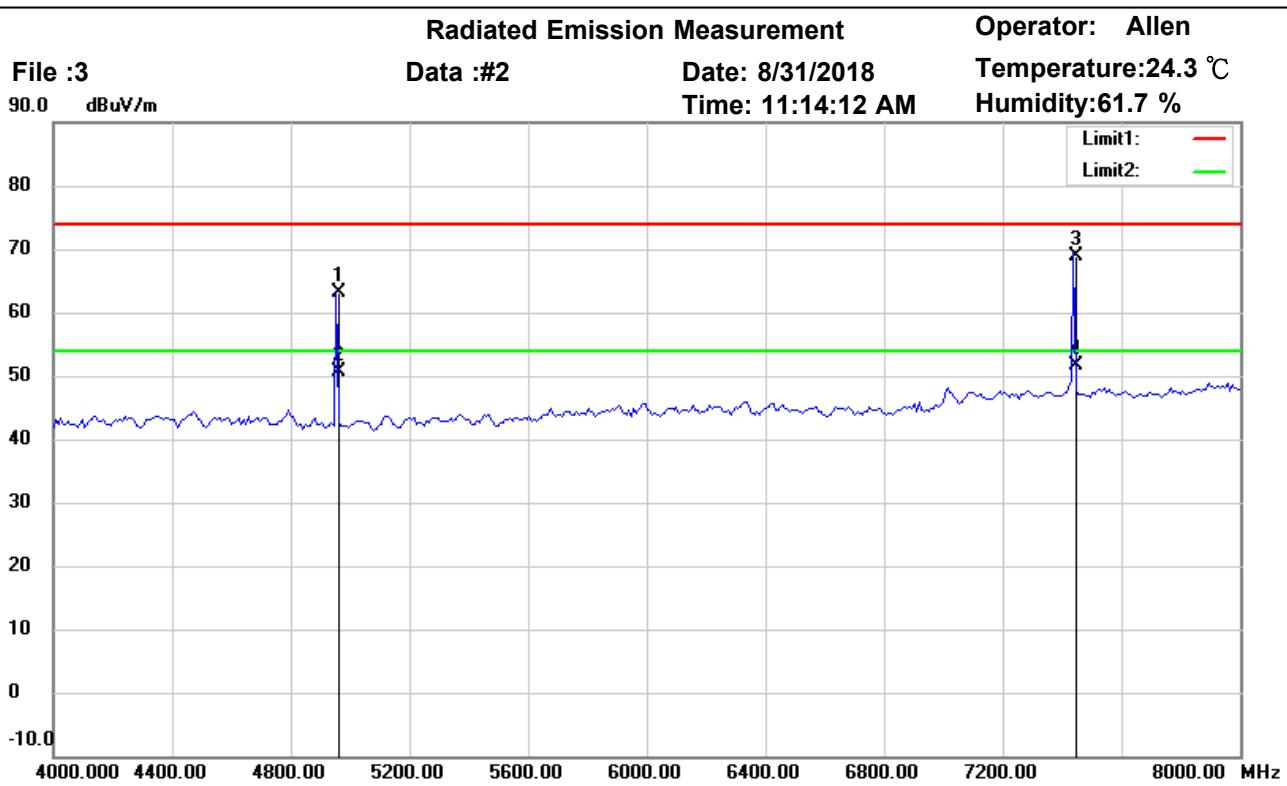
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2478MHz

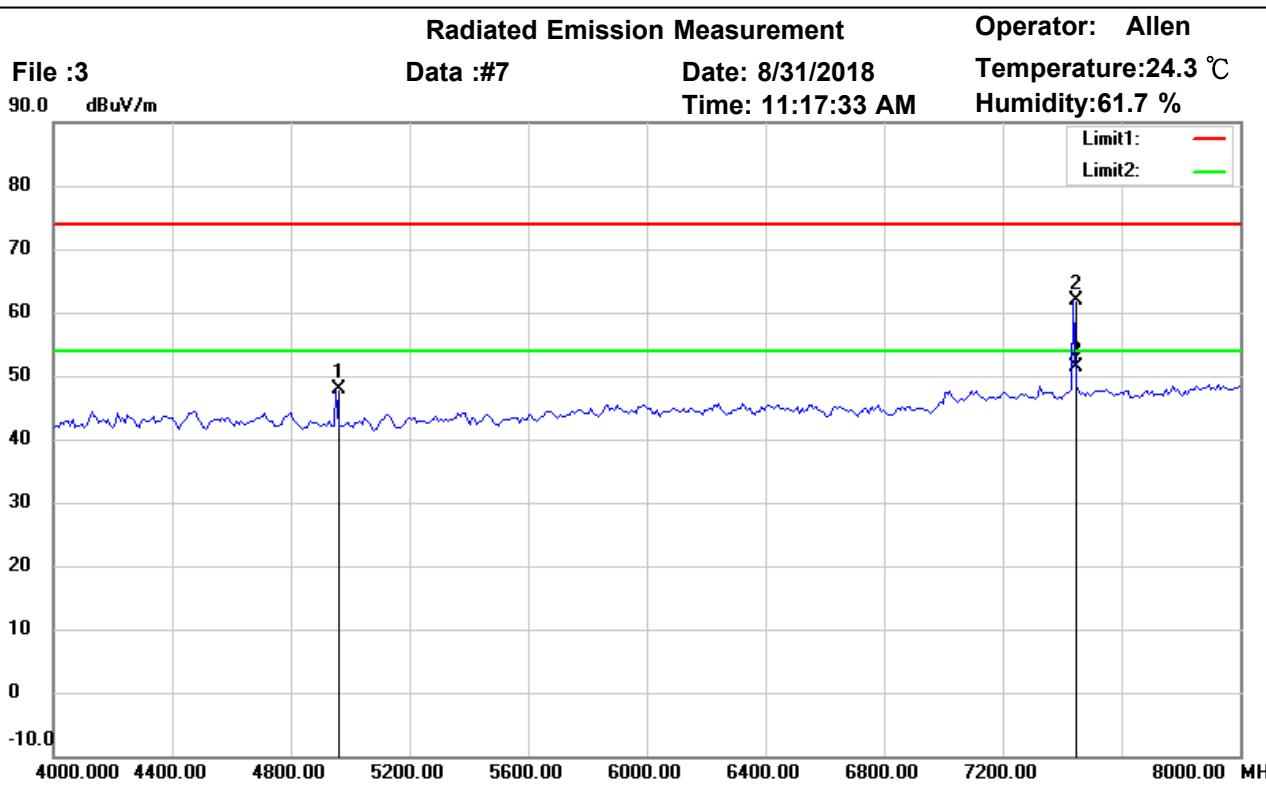
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4953.908	62.45	peak	0.76	63.21	74.00	150	35	-10.79	
	4953.908	49.86	AVG	0.76	50.62	54.00	150	35	-3.38	
	7438.878	62.78	peak	6.00	68.78	74.00	150	240	-5.22	
*	7438.878	45.58	AVG	6.00	51.58	54.00	150	240	-2.42	

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



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: Vertical

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

Test Mode : TX 2478MHz

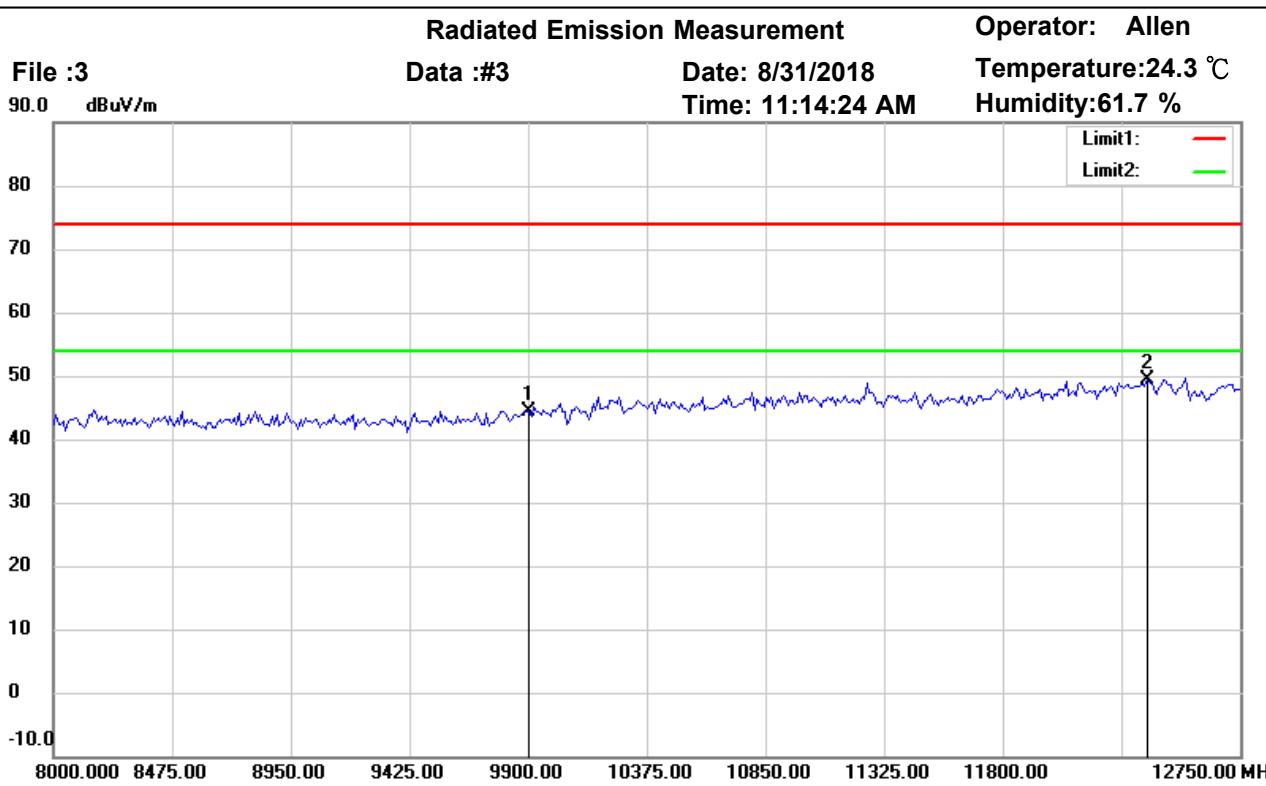
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4953.908	47.23	peak	0.76	47.99	74.00	150	55	-26.01	
	7438.878	55.96	peak	6.00	61.96	74.00	150	25	-12.04	
*	7438.878	45.33	AVG	6.00	51.33	54.00	150	25	-2.67	

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



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

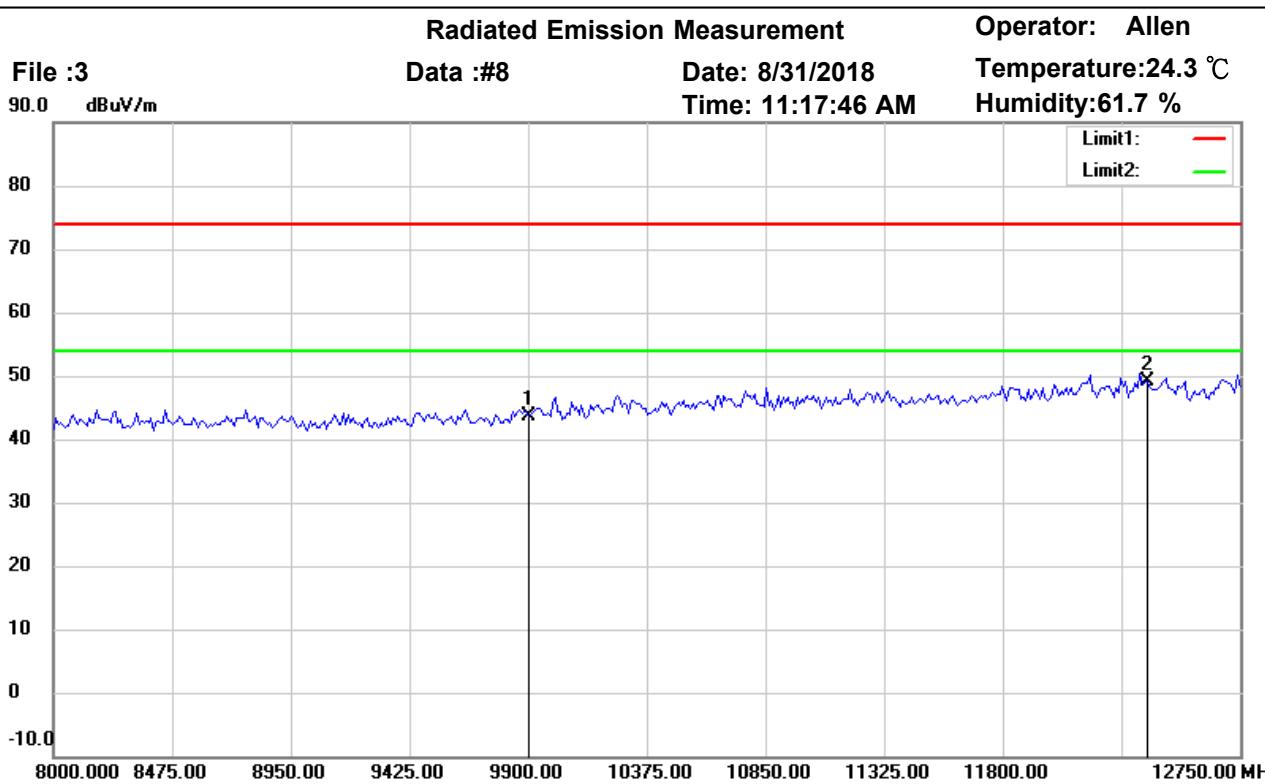
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9900.000	34.53	peak	9.73	44.26	74.00	150	275	-29.74	
*	12375.000	33.84	peak	15.44	49.28	74.00	150	30	-24.72	



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Site : Chamber

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Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

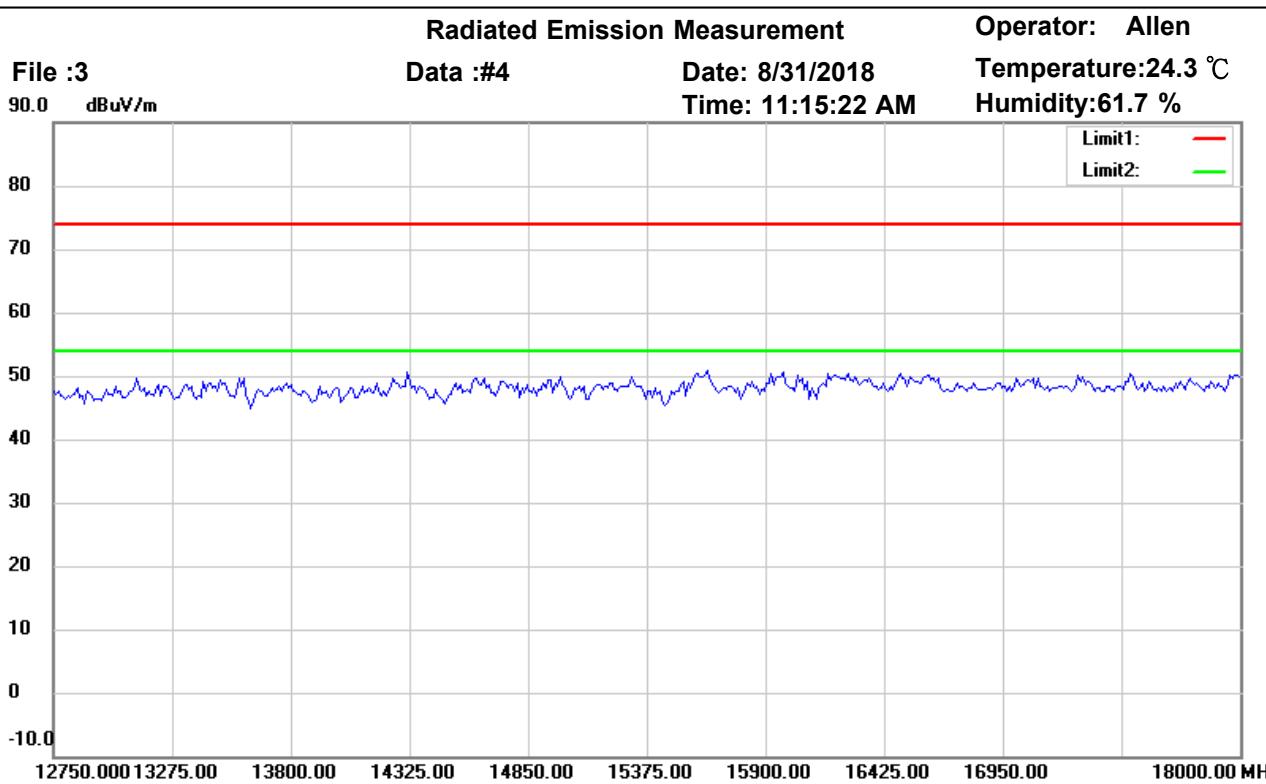
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	9900.000	33.92	peak	9.73	43.65	74.00	150	330	-30.35	
*	12375.000	33.66	peak	15.44	49.10	74.00	150	275	-24.90	



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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

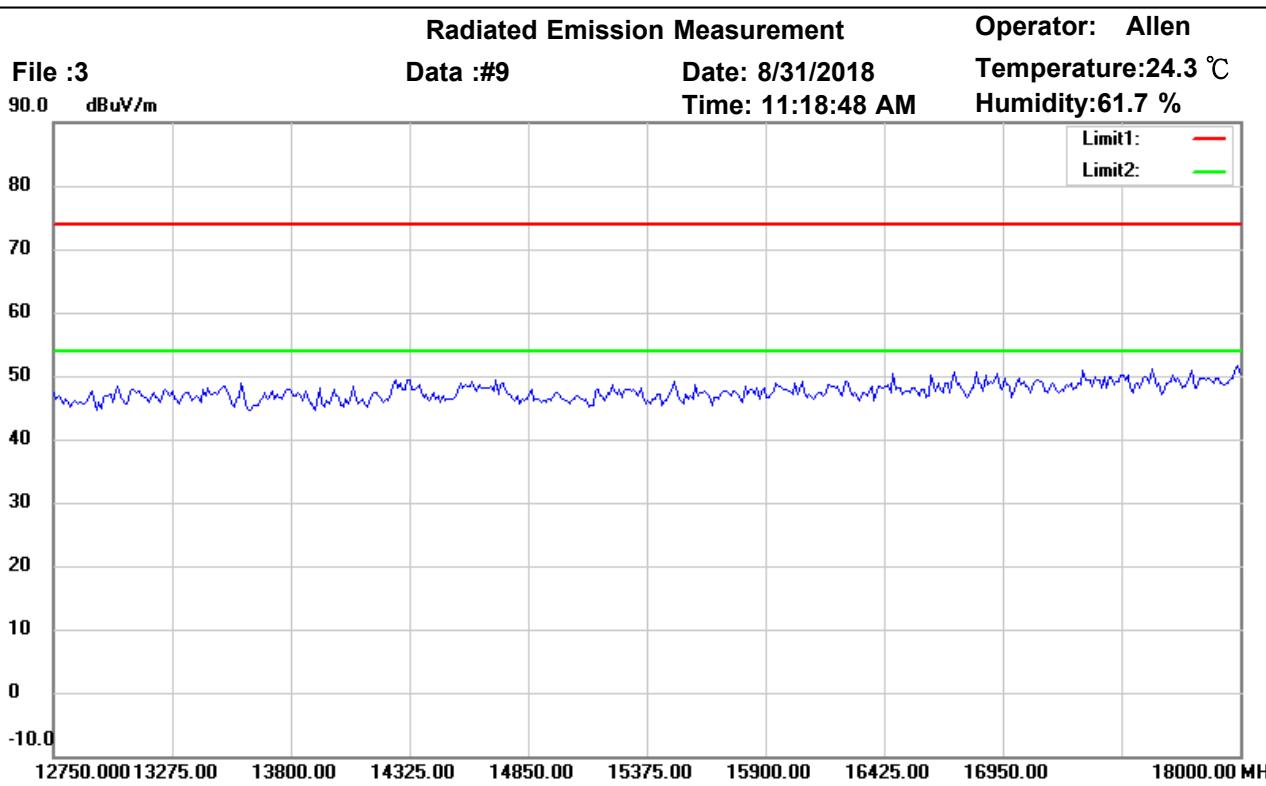
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

Condition : FCC_part 15 RE-Class C_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21808-18333

Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

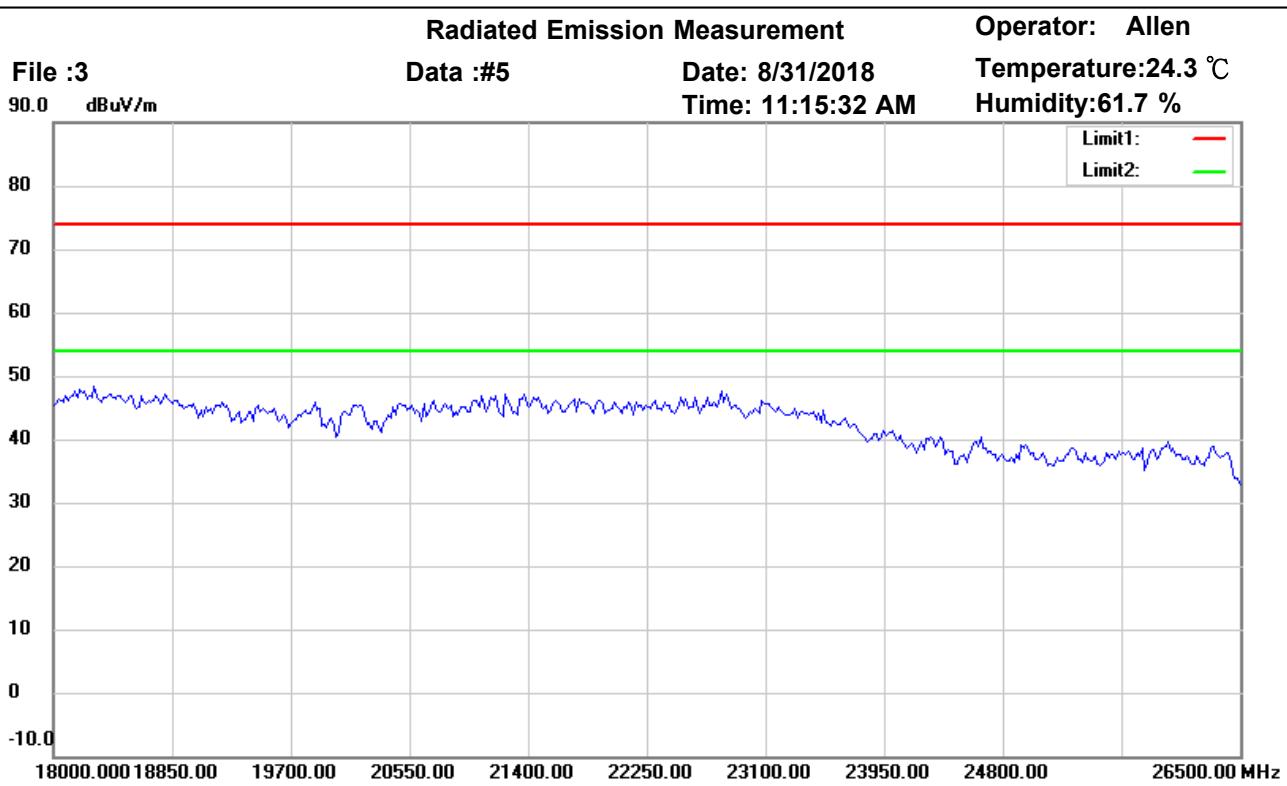
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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Site : Chamber

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Polarization: *Horizontal*

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Power : 5 Vd.c. (USB)

M/N:

Distance: 3m

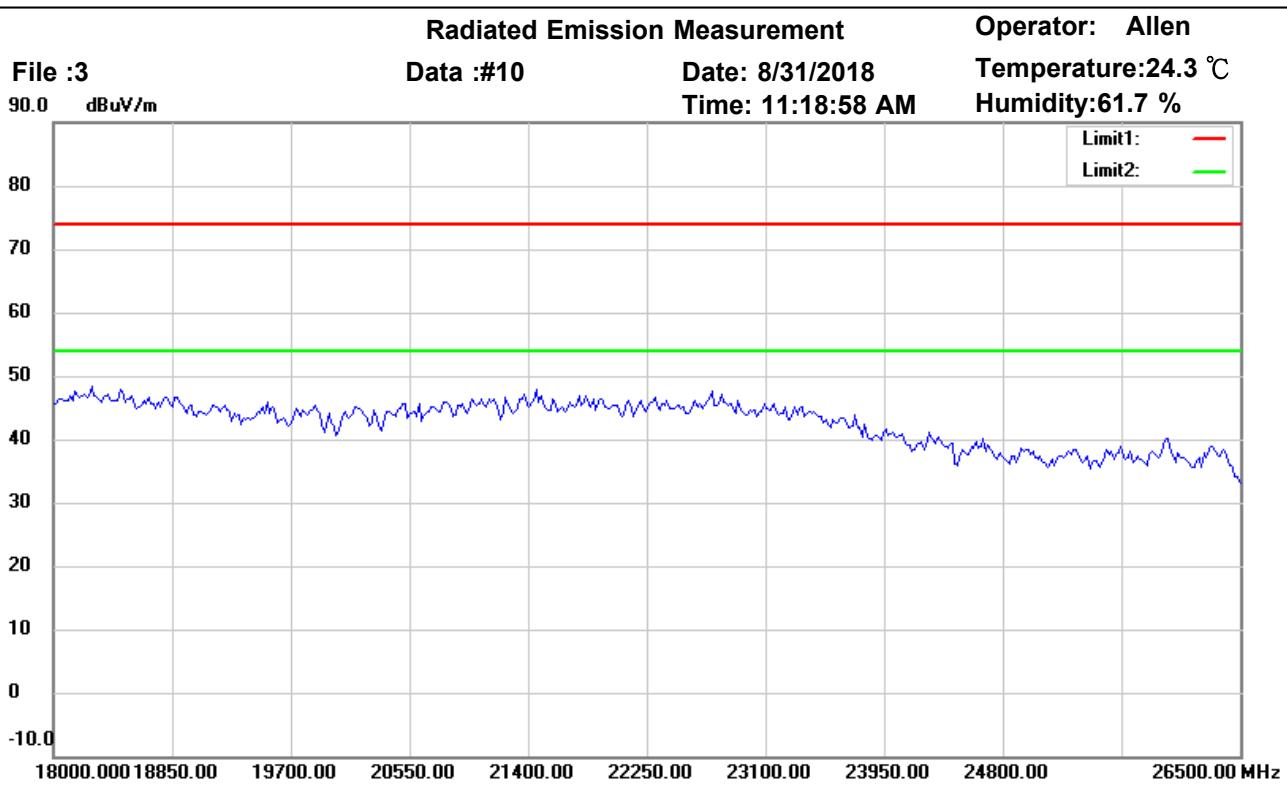
Test Mode : TX 2478MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
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M/N:

Distance: 3m

Test Mode : TX 2478MHz

Note :

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