

FCC PART 74 TEST REPORT

for

Wireless Microphone System

Model No.: UT-16

FCC ID: JEBUT-16HE

of

Applicant: MASCOT ELECTRIC CO., LTD

**Address: No.85, Changxing 1st St., Rende Dist., Tainan City 71741,
Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01



Report No.: W6M21409-14514-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	NOTES.....	3
1.2	TESTING LABORATORY	4
1.2.1	Location	4
1.2.2	Details of accreditation status	4
1.3	DETAILS OF APPROVAL HOLDER.....	5
1.4	APPLICATION DETAILS	5
1.5	GENERAL INFORMATION OF TEST ITEM	5
1.6	TEST STANDARDS.....	6
2	TECHNICAL TEST	7
2.1	SUMMARY OF TEST RESULTS	7
2.2	TEST ENVIRONMENT	7
2.3	TEST EQUIPMENT LIST	8
2.4	GENERAL TEST PROCEDURE	10
3	TEST RESULTS (ENCLOSURE)	11
4	RF POWER OUTPUT (CONDUCTED) , FCC 2.1046 (A) ; 74.861 (E)	12
4.1	TEST PROCEDURE.....	12
4.2	TEST RESULTS	12
5	RADIATED POWER.....	13
5.1	TEST PROCEDURE	13
5.2	TEST RESULTS	14
6	MODULATION DEVIATION , FCC 2.1047 (B) ; 74.861(E).....	17
6.1	TEST PROCEDURE.....	17
6.2	TEST RESULTS.....	17
7	AUDIO FREQUENCY RESPONSE , FCC 2.1047 (A).....	18
7.1	TEST PROCEDURE.....	18
7.2	TEST RESULTS.....	18
8	OCCUPIED BANDWIDTH/EMISSION MASK, FCC 2.1049 (C) ; 74.861 (E)(5)	19
8.1	TEST PROCEDURE.....	19
8.2	TEST RESULTS	19
8.3	LIMIT	19
9	SPURIOUS EMISSIONS AT ANTENNA TERMINALS FCC2.1051 ; 74.861 (E)	20
9.1	TEST PROCEDURE.....	20
9.2	TEST RESULTS	20
9.3	LIMIT	20



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

10	RADIATED SPURIOUS EMISSION , FCC 2.1053 ; 74.861 (E)	21
10.1	TEST PROCEDURE.....	21
10.2	TEST RESULTS	21
10.3	EXPLANATION OF TEST RESULT.....	25
10.4	LIMITS	25
11	LINE CONDUCTED EMISSION , FCC 15.207	26
11.1	TEST PROCEDURE.....	26
11.2	TEST RESULTS	26
12	FREQUENCY STABILITY VS. TEMPERATURE , FCC 2.1055 , 74.861 (E)	27
12.1	TEST PROCEDURE.....	27
12.2	TEST RESULTS	27
13	FREQUENCY STABILITY VS. VOLTAGE , FCC 2.1055 (D) ; 74.861 (E)	30
13.1	TEST PROCEDURE.....	30
13.2	TEST RESULTS	30
APPENDIX	31



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

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:

November 10, 2014 Mark Cheng *Mark Cheng.*

Date WTS-Lab. Name Signature

Technical responsibility for area of testing:

November 10, 2014 Kevin Wang *Kevin Wang*

Date WTS Name Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

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

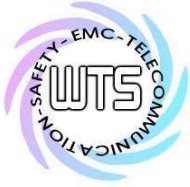
FCC filed test laboratory Reg. No. 930600

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



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.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

1.3 Details of approval holder

Name: MASCOT ELECTRIC CO., LTD
Street: No.85, Changxing 1st St., Rende Dist.,
Town: Tainan City 71741,
Country: Taiwan (R.O.C.)
Telephone: 886-6-2710171
Fax: 886-6-2710808

1.4 Application details

Date of receipt of test sample: September 30, 2014
Date of test: from October 01, 2014 to October 28, 2014

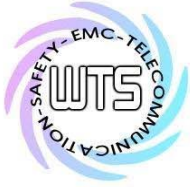
1.5 General information of Test item

Type of test item: Wireless Microphone System
Model Number: UT-16
Brand Name: MASCOT
Multi-listing model number: ./.
Photos: see Appendix

Technical data

Frequency band :

Frequency(MHz)	TV Band	Used Band
26.100-26.480	<input type="checkbox"/>	<input type="checkbox"/>
54.000-72.000	<input type="checkbox"/>	<input type="checkbox"/>
76.000-88.000	<input type="checkbox"/>	<input type="checkbox"/>
161.625-161.775	<input type="checkbox"/>	<input type="checkbox"/>
174.000-216.000	<input type="checkbox"/>	<input type="checkbox"/>
450.000-451.000	<input type="checkbox"/>	<input type="checkbox"/>
455.000-456.000	<input type="checkbox"/>	<input type="checkbox"/>
470.000-488.000	<input type="checkbox"/>	<input type="checkbox"/>
488.000-494.000	<input type="checkbox"/>	<input type="checkbox"/>
494.000-608.000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
614.000-698.000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
944.000-952.000	<input type="checkbox"/>	<input type="checkbox"/>



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

Frequency (ch 1): 520.125 MHz
Frequency (ch 2): 544.125 MHz
Frequency (ch 3): 607.225 MHz
Frequency (ch 4): 615.025 MHz
Frequency (ch 5): 629.825 MHz
Frequency (ch 6): 697.125 MHz

Antenna Type: Dipole antenna

Power supply: Battery 1.5 VDC *2

Operation modes: Simplex

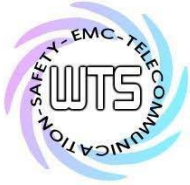
Additional information: The EUT is the portable device. So the EUT was tested on three different axes. The EUT uses the frequency range that are more than 10 MHz, so that was tested on low, middle, and high three different frequencies.

Manufacturer: (if different from approval holder)

Name: ./.
Street: ./.
Town: ./.
Country: ./.

1.6 Test standards

Technical standard: FCC Part 74 Subpart H , section 74.861 (2013-10)



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

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

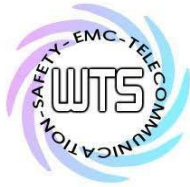
The deviations as specified in 3 were ascertained in the course of the tests performed.

2.2 Test environment

Temperature: 23 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86-103 KPa



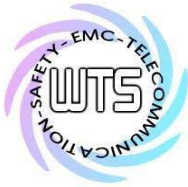
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

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	2014/9/2	2015/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLLEITUNG 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	2014/7/8	2015/7/7
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2014/10/13	2015/10/12
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2014/9/2	2015/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2014/9/2	2015/9/1
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	2014/10/15	2015/10/14
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2014/7/01	2015/6/30
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2014/2/25	2015/2/24
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2014/2/18	2015/2/17
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2014/6/05	2015/6/04
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2014/3/3	2015/3/2
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2013/11/27	2014/11/26
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2014/10/9	2015/10/8
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2014/9/22	2015/9/21
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2014/3/3	2015/3/2
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2013/12/04	2014/12/03
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2013/12/27	2014/12/26
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2014/1/10	2015/1/09
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2014/6/11	2015/6/10
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2014/8/12	2015/8/11

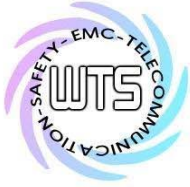


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2014/8/12	2015/8/11
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2014/3/3	2015/3/2
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2014/8/12	2015/8/11
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2014/8/12	2015/8/11
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2014/10/20	2015/10/19
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2014/1/10	2015/1/09
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2014/1/10	2015/1/09
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2014/1/10	2015/1/09
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2014/9/17	2015/9/16
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2014/10/15	2015/10/14
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2014/10/15	2015/10/14
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2014/2/27	2015/2/26
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2014/2/19	2015/2/18
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2014/9/22	2015/9/21
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2014/9/22	2015/9/21
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2014/3/3	2015/3/2
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2013/11/27	2014/11/26
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2014/2/19	2015/2/18
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2014/2/19	2015/2/18
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EM C	None	Farad	Version ETS-03A1	



Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2014 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2014 6.4 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 C63.4-2014 10.2.7: 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.



Registration number: W6M21409-14514-C-1
 FCC ID: JEBUT-16HE

3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
RF Power Output	2.1046 (a); 74.861 (e)(1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Modulation Deviation	2.1047 (b); 74.861 (e)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Audio Frequency Response	2.1047 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Occupied Bandwidth / Emission Mask	2.1049 (c)(1); 74.861 (e)(5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions at Antenna Terminals	2.1051 74.861(e)(6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Spurious Emission	2.1053 74.861(e)(6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line Conducted Emissions	15.207	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frequency Stability vs. Temperature	2.1055 (b); 74.861(e)(4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frequency Stability vs. Voltage	2.1055 (a)(1); 74.861 (e)(4)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



Registration number: W6M21409-14514-C-1
 FCC ID: JEBUT-16HE

4 RF Power Output (conducted) , FCC 2.1046 (a) ; 74.861 (e)

4.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm. The power output at the transmitter antenna port was determined by assign the value of the attenuator to the spectrum analyzer reading.

An HP power meter was also used to measure the RF power.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

4.2 Test Results

Frequency Channel	Peak Output Power (dBm)
520.125 MHz	--
544.125 MHz	--
607.225 MHz	--
615.025MHz	--
629.825MHz	--
697.125MHz	--

Limits:

LPAS operating in TV bands	
Frequency [MHz]	Conducted output power [mW]
54 – 72 76 – 88 174 - 216	50 (17 dBm)
470 – 608 614 - 698	250 (24 dBm)

LPAS operating in other than TV bands	
Conducted power [W]	
	1

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

Explanation : This test is not required.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

5 Radiated Power

5.1 Test Procedure

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site. The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

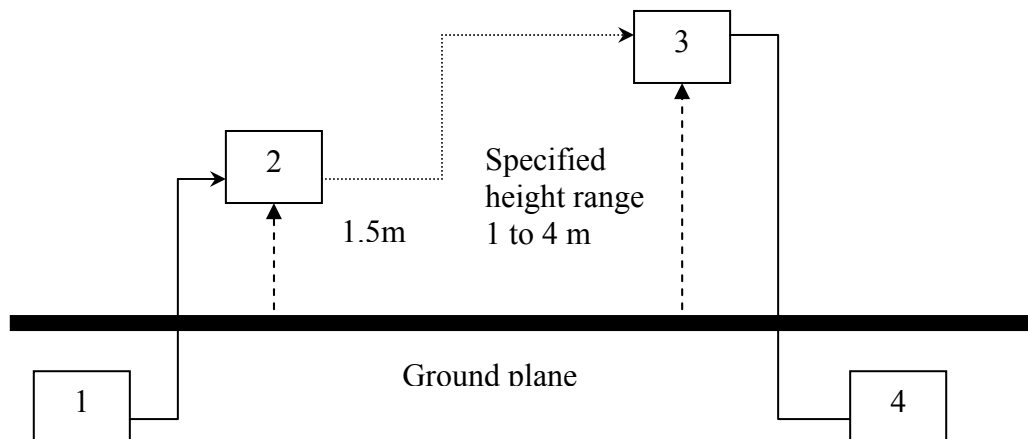
Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS Taiwan

General :

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator ;
- 2) Substitution antenna ;
- 3) Test antenna ;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Calibration :

In order to make this kind of measurement more effective and to avoid subjective measurement faults ETS has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver . The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing :

Now the test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

5.2 Test results

Model: UT-16 Date: 2014/10/07
 Mode: TX power 520.125MHz Temperature: 24 °C Engineer: Mark
 Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
520.1140	-46.01	28.99	-17.02	24.00	-41.02	300	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
520.1140	-22.83	31.81	8.98	24.00	-15.02	100	150

Mode: TX power 544.125MHz
 Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
544.1140	-33.45	28.73	-4.72	24.00	-28.72	170	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
544.1160	-22.45	31.59	9.14	24.00	-14.86	100	150

Mode: TX power 607.225MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
607.2160	-33.32	31.71	-1.61	24.00	-25.61	80	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
607.2160	-21.00	31.80	10.80	24.00	-13.20	120	150

Mode: TX power 615.025MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
615.0160	-33.69	32.32	-1.37	24.00	-25.37	20	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
615.0140	-21.79	31.84	10.05	24.00	-13.95	140	150

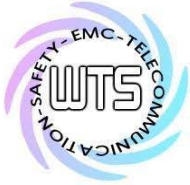
Mode: TX power 629.825MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
629.8160	-34.00	33.48	-0.52	24.00	-24.52	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
629.8180	-25.46	31.92	6.46	24.00	-17.54	120	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Mode: TX power 697.125MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
697.1080	-40.45	34.58	-5.87	24.00	-29.87	180	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
697.1120	-23.76	34.13	10.37	24.00	-13.63	140	150

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

Explanation: Please see attached diagrams as appendix.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

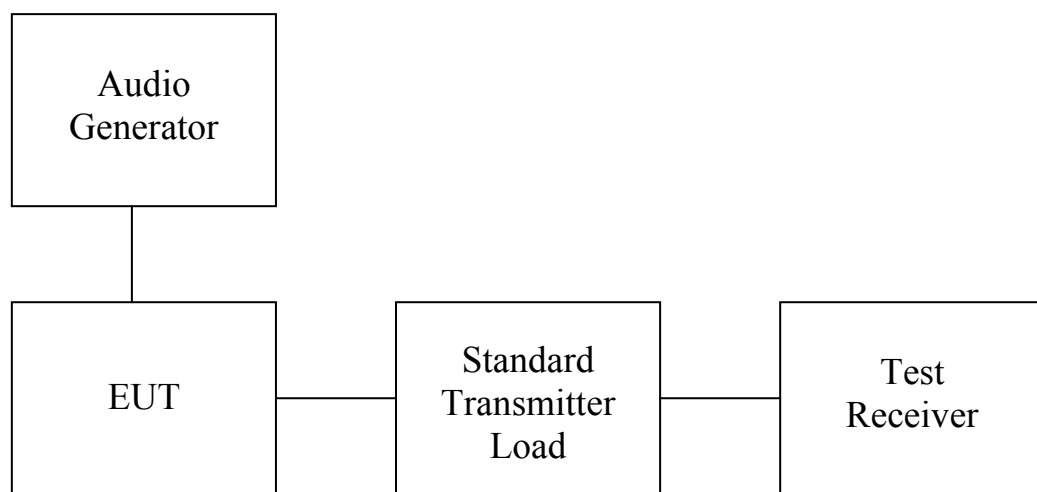
6 Modulation Deviation , FCC 2.1047 (b) ; 74.861(e)

6.1 Test procedure

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of rated system deviation.

The audio signal generator is connected to the audio input of the EUT with its full rating.

The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.

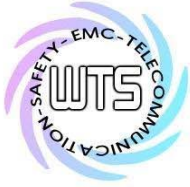


6.2 Test results

Explanation: Please see attached diagrams as appendix.

Limits : ± 75 kHz

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



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

7 Audio frequency response , FCC 2.1047 (a)

7.1 Test procedure

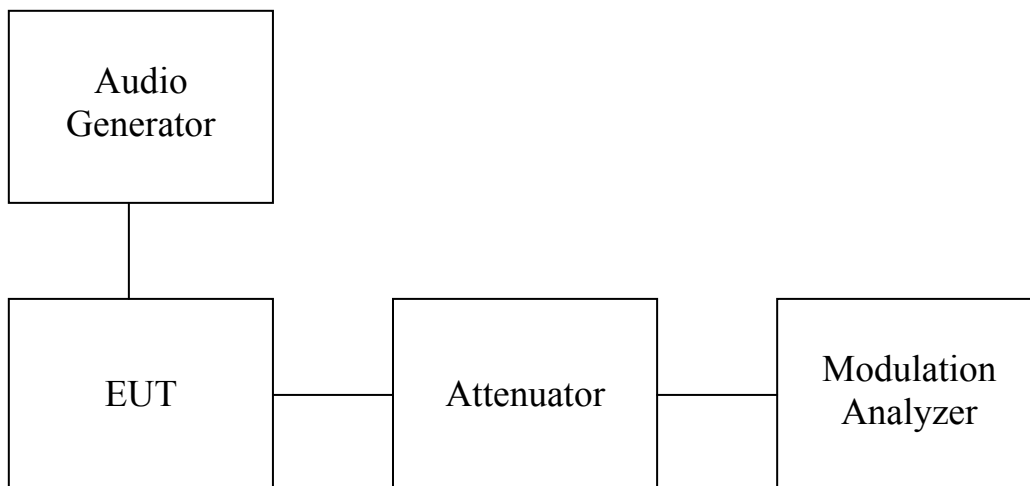
The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

The frequency response of the audio modulation part is measured over a frequency range of 100 Hz to 5000 Hz.

For 1000 Hz tone reference signal the audio generator level is adjusted to get 20% of the rated system deviation.

The deviations obtained over the frequency range from 100 Hz to 5000 Hz are recorded and compared with the reference deviation as follows :

$$\text{Audio Frequency Response} = 20 \log [\text{DEV}_{\text{Freq}} / \text{DEV}_{\text{ref}}].$$



7.2 Test results

Explanation: Please see attached diagrams as appendix.

Test equipment used: ETSTW-RE 072



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

8 Occupied Bandwidth/Emission Mask, FCC 2.1049 (c) ; 74.861 (e)(5)

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

The RF output of the transceiver was connected to the input of the spectrum analyzer through sufficient attenuation.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer.

The near the carrier emissions are measured by normal power measurement function of the analyzer.

8.2 Test Results

1000 Hz Modulation

Occupied Channel Bandwidth (kHz)	
520.125 MHz	62.099358974
544.125 MHz	62.099358974
607.225 MHz	64.903846154
615.025MHz	64.503205128
629.825MHz	64.503205128
697.125MHz	61.698717949

2500 Hz Modulation

Occupied Channel Bandwidth (kHz)	
520.125 MHz	79.326923077
544.125 MHz	78.926282051
607.225 MHz	82.532051282
615.025MHz	82.131410257
629.825MHz	82.532051282
697.125MHz	78.125000000

Explanation : Please see attached diagram as appendix .

8.3 Limit

The operating bandwidth shall not exceed 200 kHz.

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



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

9 Spurious Emissions at Antenna Terminals FCC2.1051 ; 74.861 (e)

9.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and high-pass filter.

Tests were performed with an un-modulated carrier at three frequencies (low , middle and high channels) and on all power levels , which can be set-up on the transmitters.

9.2 Test Results

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

Frequency Marker Indication [MHz]	Indication Power Level [dBm]	Compliance Limit [dBm]	Margin
--	--	--	--
--	--	--	--

9.3 Limit

Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	10.80 dBm
Required attenuation	$43 + 10 \log_{10} 0.01202 \text{ W} = 23.80 \text{ dB}$
Maximum transmitter output power	10.80 dBm
<u>Required attenuation</u>	<u>23.80 dB</u>
Compliance limit	-13 dBm

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

Explanation : This test is not applicable.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

10 Radiated Spurious Emission , FCC 2.1053 ; 74.861 (e)

10.1 Test procedure

The EUT was positioned on a non-conductive turntable , 0.8m above the ground plane.

The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

ERP was measured using a substitution method. The EUT was replaced by reference antenna connected to a signal generator.

The test of spurious radiated emission have been carried out with the ESK-Software from Rode & Schwarz. The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

Spurious emission limits near the carrier are defined by a emission mask. This measurements are done in conducted mode.

10.2 Test Results

The measurements of the spurious emission at the upper , center and lower channel.

The measurement diagrams show that all significant spurs are well below the limit line.

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

Model:	UT-16	Date:	2014/10/08				
Mode:	TX 520.125MHz	Temperature:	24 °C	Engineer:	Mark		
Polarization:	Horizontal	Humidity:	60 %				
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-102.19	23.28	-78.91	-13.00	-65.91	100	150
169.6794	-103.74	24.80	-78.94	-13.00	-65.94	10	150
494.9900	-73.27	-6.92	-80.19	-13.00	-67.19	170	150
676.1523	-71.91	-0.31	-72.22	-13.00	-59.22	210	150
1036.0720	-52.47	1.21	-51.26	-13.00	-38.26	100	150
4681.3630	-56.88	9.80	-47.08	-13.00	-34.08	120	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-103.13	24.31	-78.82	-13.00	-65.82	140	150
176.8337	-103.67	25.38	-78.29	-13.00	-65.29	280	150
669.7395	-73.19	-2.38	-75.57	-13.00	-62.57	140	150
759.5190	-74.46	-1.37	-75.83	-13.00	-62.83	280	150
1036.0720	-45.28	0.52	-44.76	-13.00	-31.76	180	150
2082.1640	-57.56	4.42	-53.14	-13.00	-40.14	150	150

Mode: TX 544.125MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
79.0581	-104.31	24.12	-80.19	-13.00	-67.19	100	150
143.7876	-102.78	23.47	-79.31	-13.00	-66.31	210	150
434.0682	-74.93	-7.19	-82.12	-13.00	-69.12	260	150
692.1844	-73.53	-0.16	-73.69	-13.00	-60.69	150	150
4352.7060	-63.78	9.54	-54.24	-13.00	-41.24	140	150
4897.7960	-64.51	11.17	-53.34	-13.00	-40.34	100	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-100.08	24.31	-75.77	-13.00	-62.77	140	150
165.2505	-103.43	25.29	-78.14	-13.00	-65.14	240	150
517.4350	-70.67	-4.47	-75.14	-13.00	-62.14	170	150
672.9460	-72.27	-2.27	-74.54	-13.00	-61.54	250	150
4897.7960	-60.73	11.90	-48.83	-13.00	-35.83	140	150
5442.8860	-63.11	12.97	-50.14	-13.00	-37.14	210	150

Mode: TX 607.225MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-102.78	23.28	-79.50	-13.00	-66.50	100	150
162.8657	-105.13	24.65	-80.48	-13.00	-67.48	210	150
432.4650	-75.34	-7.10	-82.44	-13.00	-69.44	130	150
692.1844	-72.84	-0.16	-73.00	-13.00	-60.00	210	150
1210.4210	-46.93	1.09	-45.84	-13.00	-32.84	180	150
3038.0760	-60.54	10.20	-50.34	-13.00	-37.34	210	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-101.56	24.31	-77.25	-13.00	-64.25	140	150
165.5912	-103.42	25.29	-78.13	-13.00	-65.13	210	150
520.6413	-70.29	-4.37	-74.66	-13.00	-61.66	170	150
671.3427	-72.14	-2.33	-74.47	-13.00	-61.47	190	150
1210.4210	-48.30	2.47	-45.83	-13.00	-32.83	180	150
3038.0760	-59.95	9.17	-50.78	-13.00	-37.78	210	150

Mode: TX 615.025MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-102.62	23.28	-79.34	-13.00	-66.34	100	150
149.9198	-104.30	23.89	-80.41	-13.00	-67.41	250	150
418.0361	-76.37	-6.55	-82.92	-13.00	-69.92	110	150
672.9460	-76.66	-0.34	-77.00	-13.00	-64.00	210	150
1228.4570	-49.90	1.35	-48.55	-13.00	-35.55	180	150
3002.0040	-62.88	10.72	-52.16	-13.00	-39.16	210	150

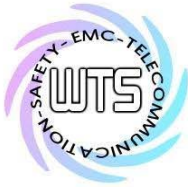
Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-100.46	24.31	-76.15	-13.00	-63.15	100	150
174.4488	-104.21	25.37	-78.84	-13.00	-65.84	200	150
488.5772	-73.15	-5.80	-78.95	-13.00	-65.95	140	150
677.7556	-72.50	-2.11	-74.61	-13.00	-61.61	210	150
1228.4570	-50.38	2.16	-48.22	-13.00	-35.22	170	150
3074.1480	-58.98	9.17	-49.81	-13.00	-36.81	210	150

Mode: TX 629.825MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-101.79	23.28	-78.51	-13.00	-65.51	150	150
176.8337	-103.76	24.96	-78.80	-13.00	-65.80	100	150
509.4190	-75.19	-6.71	-81.90	-13.00	-68.90	10	150
762.7255	-75.43	-2.72	-78.15	-13.00	-65.15	230	150
1258.5170	-48.83	1.76	-47.07	-13.00	-34.07	150	150
2995.9920	-61.33	10.62	-50.71	-13.00	-37.71	10	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-102.17	24.31	-77.86	-13.00	-64.86	100	150
152.6453	-103.07	24.64	-78.43	-13.00	-65.43	250	150
515.8317	-69.75	-4.53	-74.28	-13.00	-61.28	170	150
676.1523	-73.40	-2.17	-75.57	-13.00	-62.57	150	150
1258.5170	-45.72	1.66	-44.06	-13.00	-31.06	170	150
3152.3050	-58.85	9.81	-49.04	-13.00	-36.04	180	150

Mode: TX 697.125MHz

Polarization: Horizontal

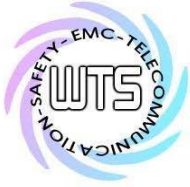
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-102.40	23.28	-79.12	-13.00	-66.12	100	150
176.1523	-104.26	24.95	-79.31	-13.00	-66.31	250	150
411.6233	-75.59	-6.91	-82.50	-13.00	-69.50	170	150
687.3748	-76.24	-0.21	-76.45	-13.00	-63.45	200	150
1390.7820	-58.98	3.17	-55.81	-13.00	-42.81	170	150
3488.9780	-58.93	9.32	-49.61	-13.00	-36.61	180	150

Polarization: Vertical

Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
97.7956	-103.06	24.31	-78.75	-13.00	-65.75	150	150
171.0421	-103.51	25.34	-78.17	-13.00	-65.17	250	150
456.5131	-71.18	-7.13	-78.31	-13.00	-65.31	170	150
669.7395	-72.22	-2.38	-74.60	-13.00	-61.60	280	150
1390.7820	-52.09	0.11	-51.98	-13.00	-38.98	140	150
3488.9780	-58.42	10.48	-47.94	-13.00	-34.94	10	150

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. Measurement uncertainty: 30-200MHz : ±2.11 dB, 200-1000MHz : ±2.09 dB, 1-18GHz : ±2.71 dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
5. See the attached diagram as appendix.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

10.3 Explanation of test result

The measurements of the spurious emissions at the equipment output terminals were performed pursuant to the test procedure above in order to verify that any emissions are below the limits given by § 74.861 (6).

Calculation of test results :

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

In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

10.4 Limits

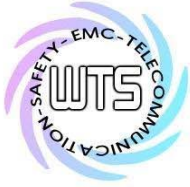
Compliance with § 74.861 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log_{10} P$ (P = transmitter power in Watts).

The compliance limit was calculated as an example per the following table :

Maximum transmitter output power	10.80 dBm
Required attenuation	$43 + 10 \log_{10} 0.01202 \text{ W} = 23.80 \text{ dB}$
Maximum transmitter output power	10.80 dBm
<u>Required attenuation</u>	<u>23.80 dB</u>
Compliance limit	-13 dBm

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

Explanation : See attached diagrams in appendix.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

11 Line Conducted Emission , FCC 15.207

11.1 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.

11.2 Test Results

Frequency	Max. Level (dBμV)	
	quasi-peak	average
-- kHz	--	--

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. **Measurement uncertainty = ±1.41 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.**
7. **This test is not required because the EUT is battery-used.**

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-CE 006, ETSTW-RE 045



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

12 Frequency Stability vs. Temperature , FCC 2.1055 , 74.861 (e)

12.1 Test procedure

The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable, exited the chamber through an opening made for that purpose.

After the temperature stabilized the frequency output was recorded from the counter.

12.2 Test Results

520.125 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	520.119391	-4.505	-8.661
-20	520.121153	-2.743	-5.274
-10	520.123397	-0.499	-0.959
0	520.123588	-0.308	-0.592
+10	520.123717	-0.179	-0.344
+20	520.123896	0.000	0.000
+30	520.123896	0.000	0.000
+40	520.122756	-1.140	-2.191
+50	520.122756	-1.140	-2.191
Limit		26.006	50

544.125 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	544.120032	-2.921	-5.368
-20	544.121768	-1.185	-2.178
-10	544.122916	-0.037	-0.068
0	544.123381	0.428	0.787
+10	544.123717	0.764	1.404
+20	544.122953	0.000	0.000
+30	544.122953	0.000	0.000
+40	544.122596	-0.357	-0.656
+50	544.122596	-0.357	-0.656
Limit		27.206	50



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

607.225 MHz

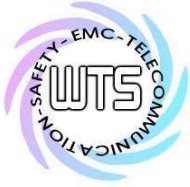
°C	Freq	Error(kHz)	Error(ppm)
-30	607.223710	-2.111	-3.476
-20	607.224581	-1.240	-2.042
-10	607.226762	0.941	1.550
0	607.226657	0.836	1.377
+10	607.226602	0.781	1.286
+20	607.225821	0.000	0.000
+30	607.225821	0.000	0.000
+40	607.225480	-0.341	-0.562
+50	607.225480	-0.341	-0.562
Limit		30.361	50

615.025 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	615.024358	-1.670	-2.715
-20	615.025633	-0.395	-0.642
-10	615.026762	0.734	1.193
0	615.026762	0.734	1.193
+10	615.026762	0.734	1.193
+20	615.026028	0.000	0.000
+30	615.026028	0.000	0.000
+40	615.025480	-0.548	-0.891
+50	615.025480	-0.548	-0.891
Limit		30.751	50

629.825 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	629.822916	-3.015	-4.787
-20	629.824981	-0.950	-1.508
-10	629.826762	0.831	1.319
0	629.826673	0.742	1.178
+10	629.826602	0.671	1.065
+20	629.825931	0.000	0.000
+30	629.825931	0.000	0.000
+40	629.825400	-0.531	-0.843
+50	629.825400	-0.531	-0.843
Limit		31.491	50



Worldwide Testing Services(Taiwan) Co., Ltd.

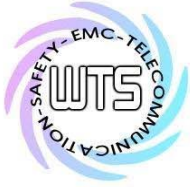
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

697.125 MHz

°C	Freq	Error(kHz)	Error(ppm)
-30	697.121153	-1.560	-2.238
-20	697.122659	-0.054	-0.077
-10	697.123717	1.004	1.440
0	697.123565	0.852	1.222
+10	697.123237	0.524	0.752
+20	697.122713	0.000	0.000
+30	697.122713	0.000	0.000
+40	697.119551	-3.162	-4.536
+50	697.119551	-3.162	-4.536
Limit		34.856	50

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



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

13 Frequency Stability vs. Voltage , FCC 2.1055 (d) ; 74.861 (e)

13.1 Test procedure

An external variable DC power supply was connected to the battery terminals of the equipment under test.

For hand carried , battery powered equipment primary supply voltage was reduced to the battery operating end point as specified by the manufacturer. The output frequency was recorded for each battery voltage.

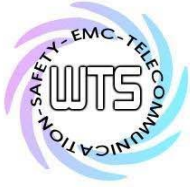
13.2 Test Results

Test voltage: 2.55 Vdc

Frequency in Normal Condition (MHz)	Frequency in battery operating end point (MHz)	Frequency Error (kHz)	Frequency Error (ppm)
520.123896	520.123896	0.000	0.000
544.122953	544.122953	0.000	0.000
607.225821	607.225821	0.000	0.000
615.026028	615.026028	0.000	0.000
629.825931	629.825931	0.000	0.000
697.122713	697.122713	0.000	0.000

Limit : $\pm 0.005\%$

Test equipment used: ETSTW-RE 055



Appendix

A Measurement diagrams

1. RF Power Output
2. Modulation Deviation and Audio frequency response
3. Occupied Bandwidth / Emission Mask
4. Spurious Emissions at Antenna Terminals
(This test is not applicable)
5. Radiation Spurious Emission
6. Line Conducted Emissions
(This is not required the sample is battery used.)
7. Frequency Stability vs. Temperature
No diagrams
Refer to point 12.2
8. Frequency Stability vs. Voltage
No diagrams
Refer to point 13.2

B Photos

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission



Registration number: W6M21409-14514-C-1

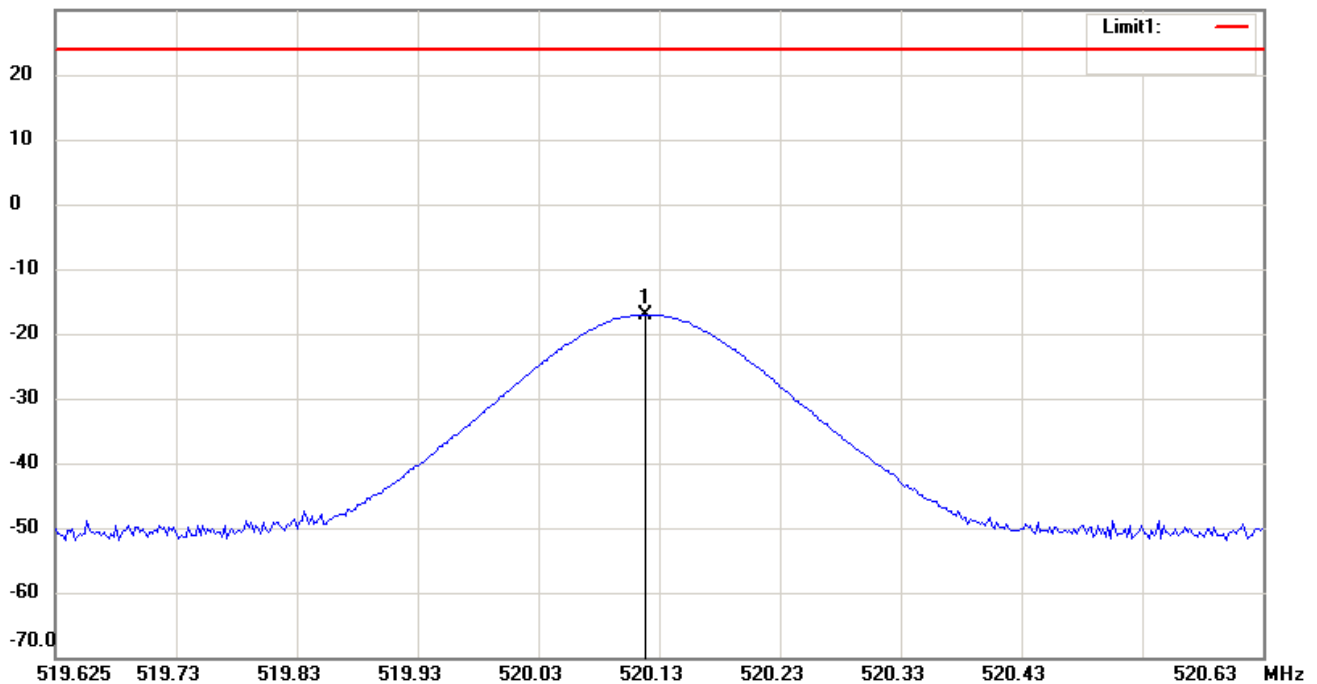
FCC ID: JEBUF-18HE

RF Power Output

520.125MHz

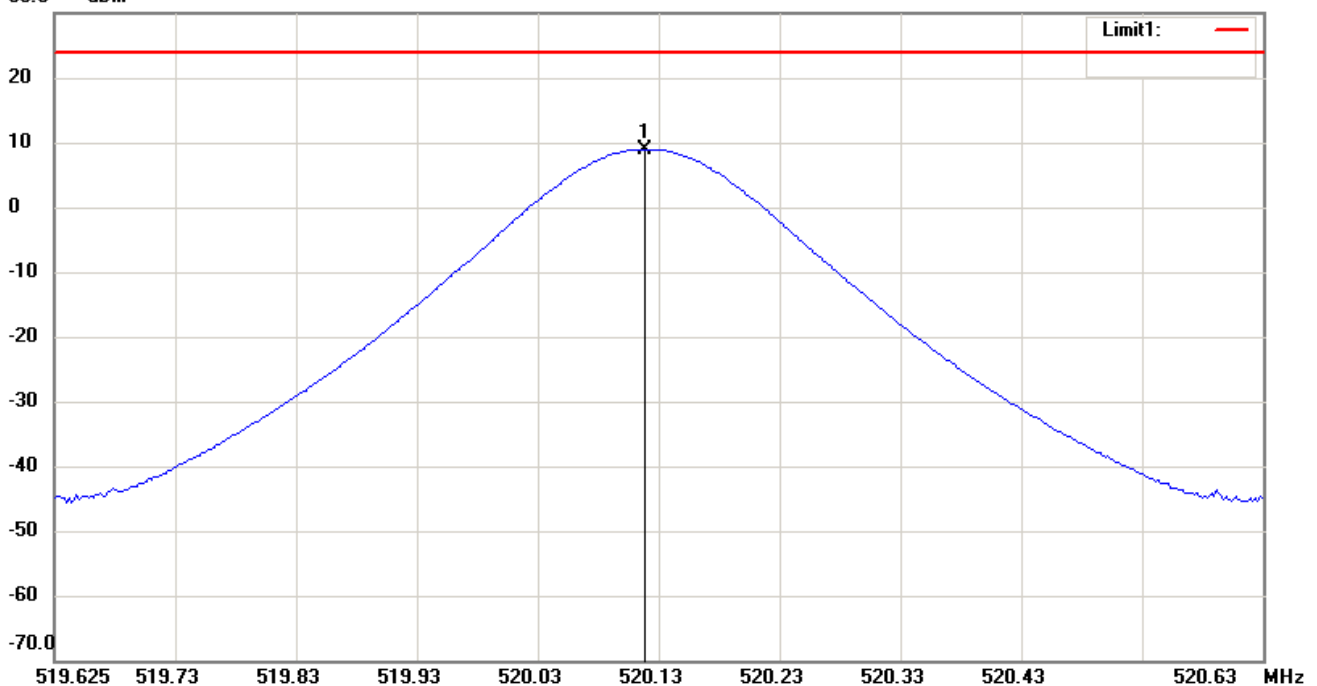
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



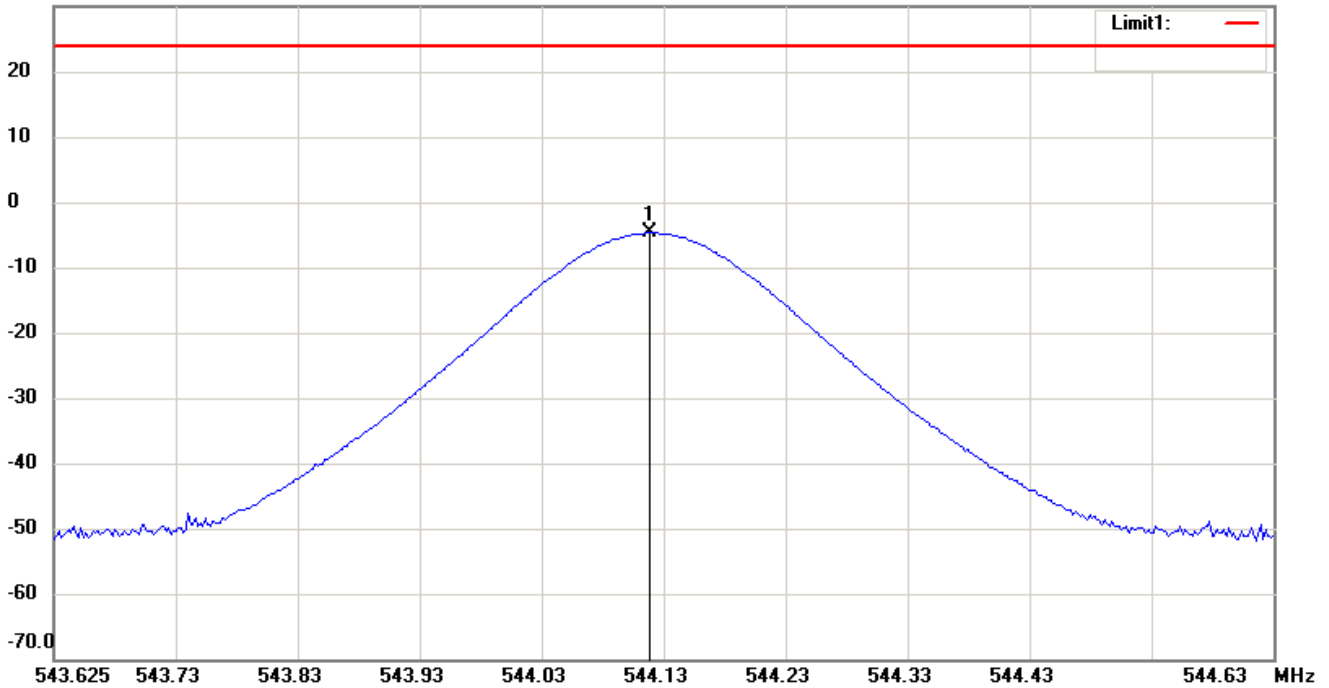
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

544.125 MHz

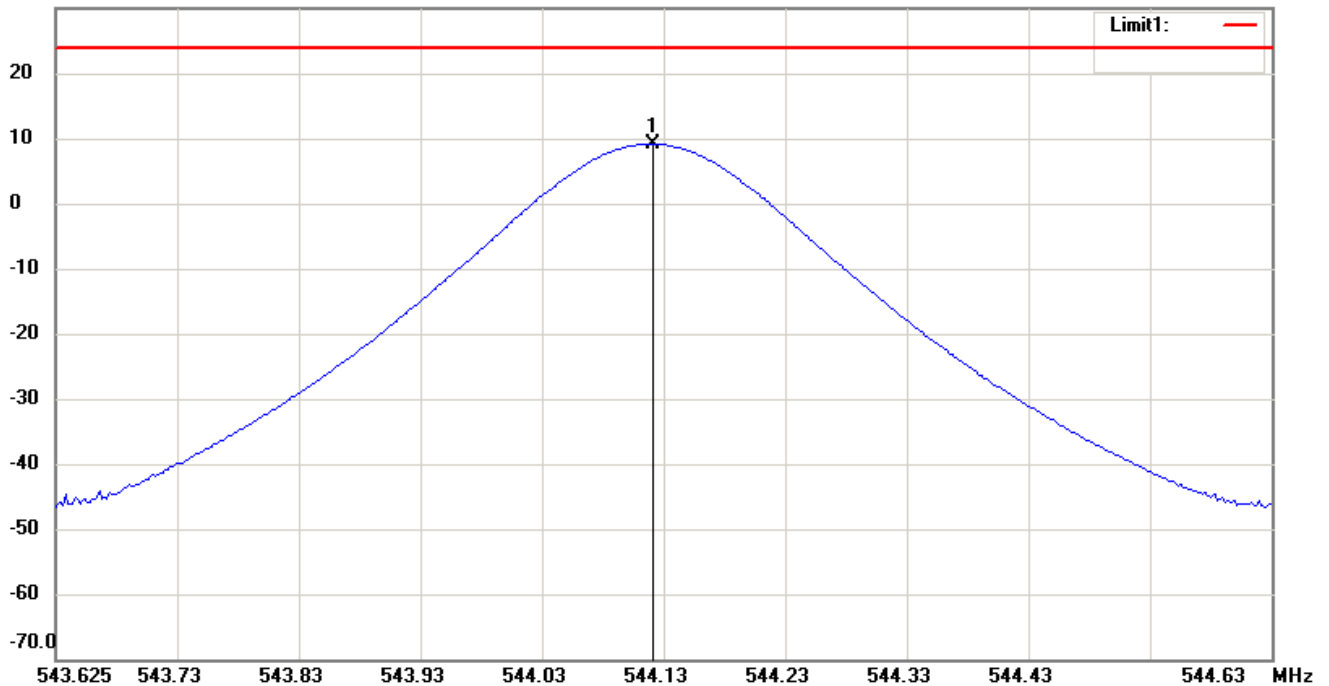
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



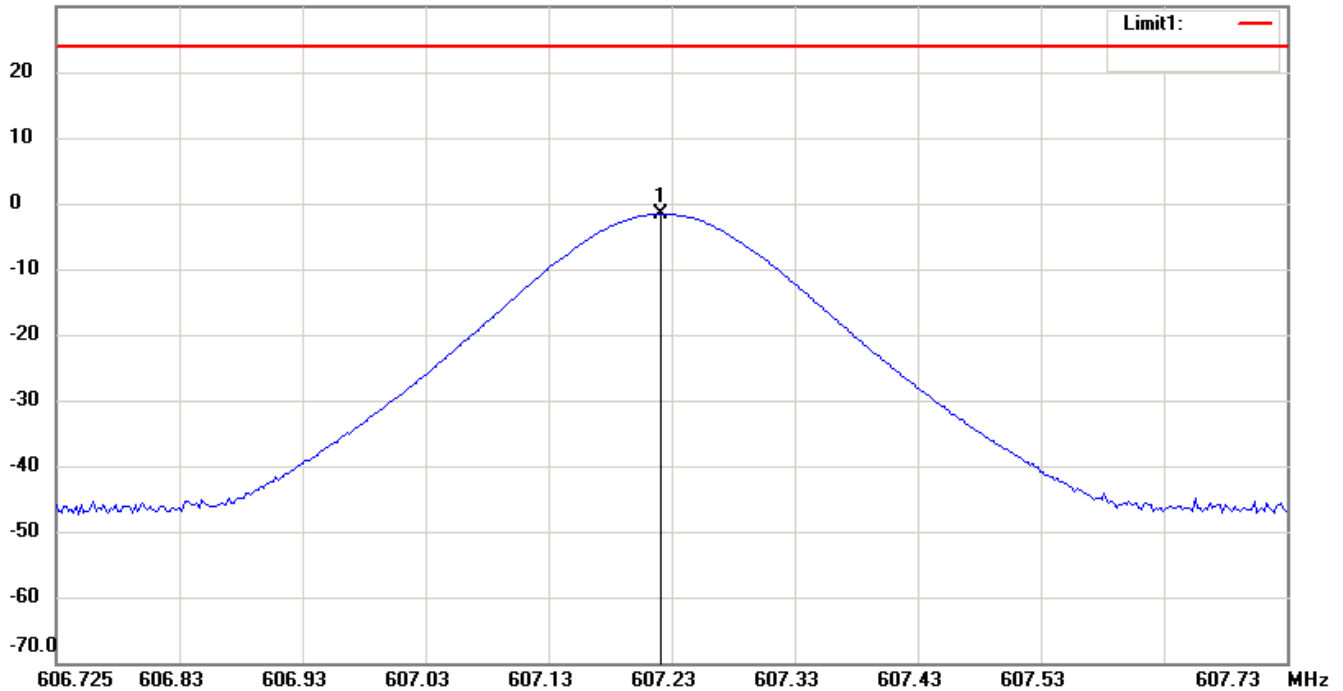
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

607.225 MHz

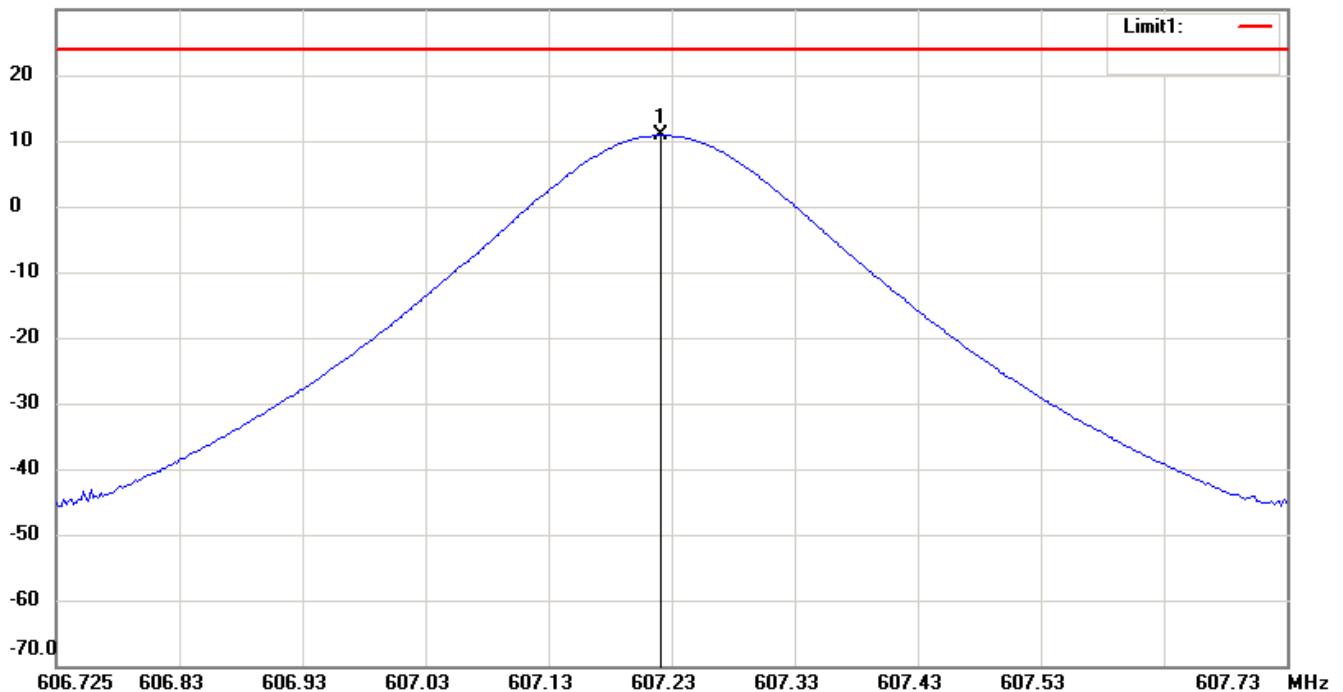
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



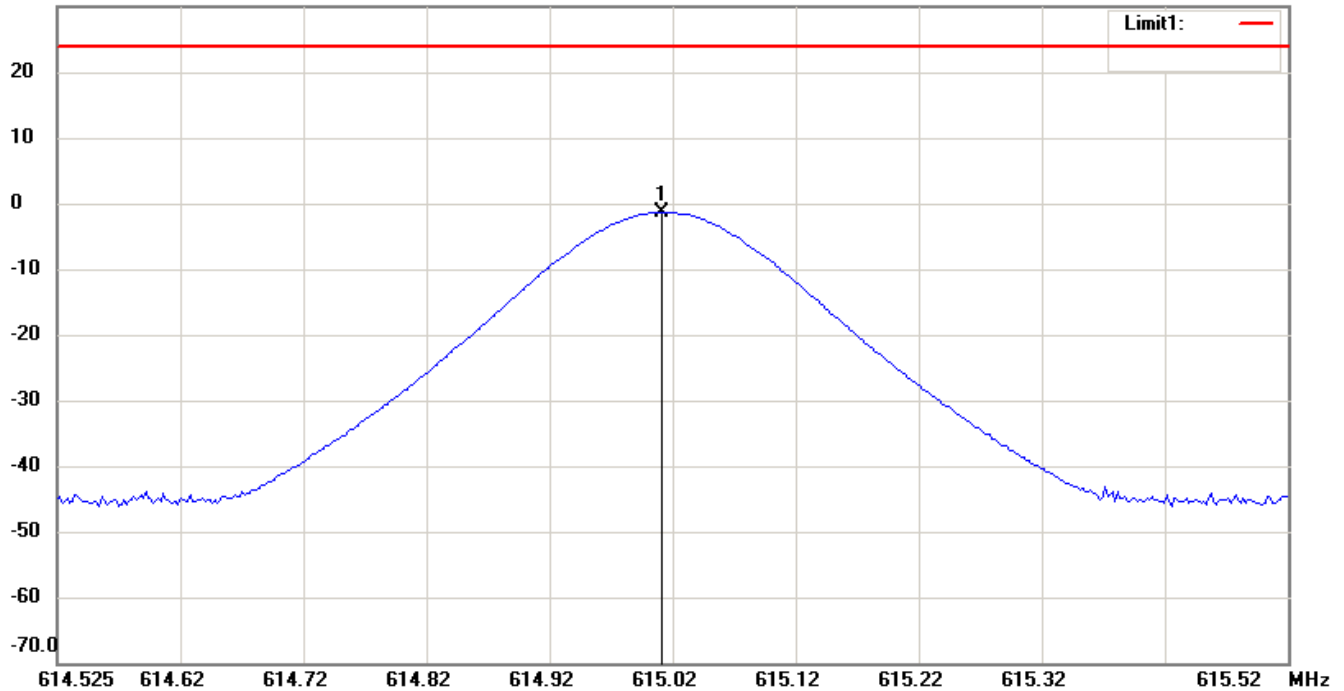
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

615.025 MHz

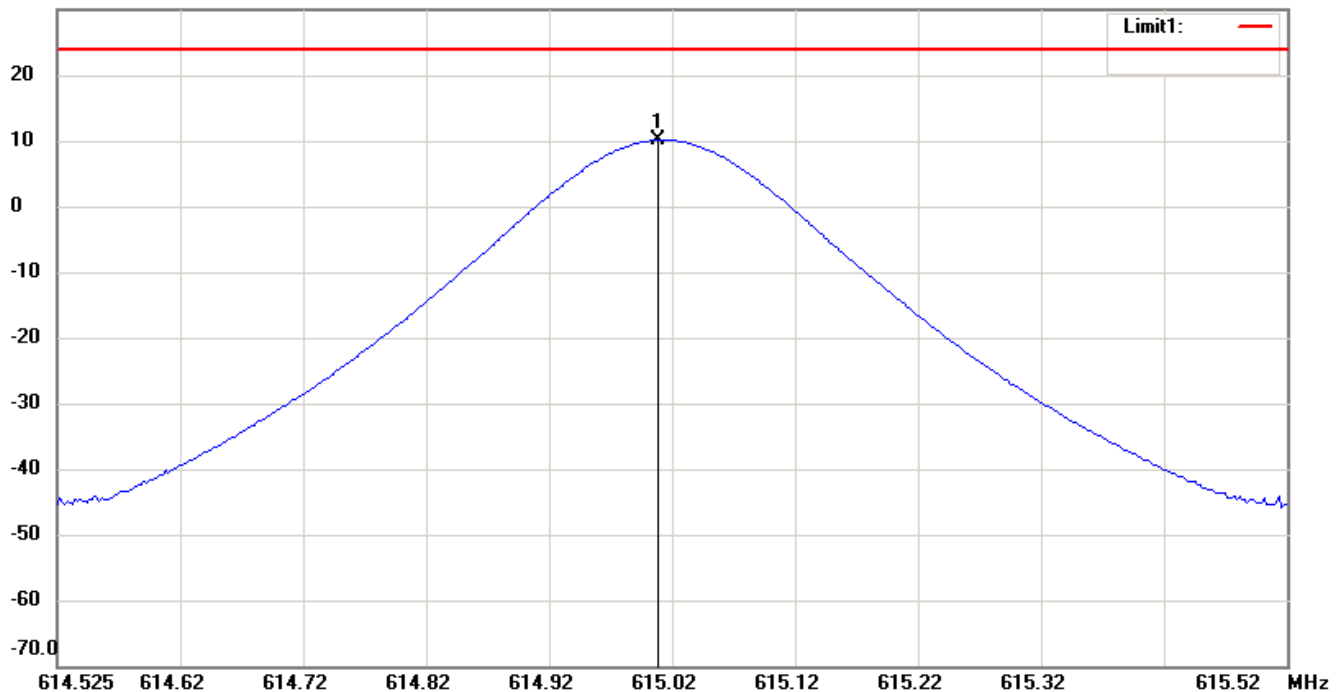
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



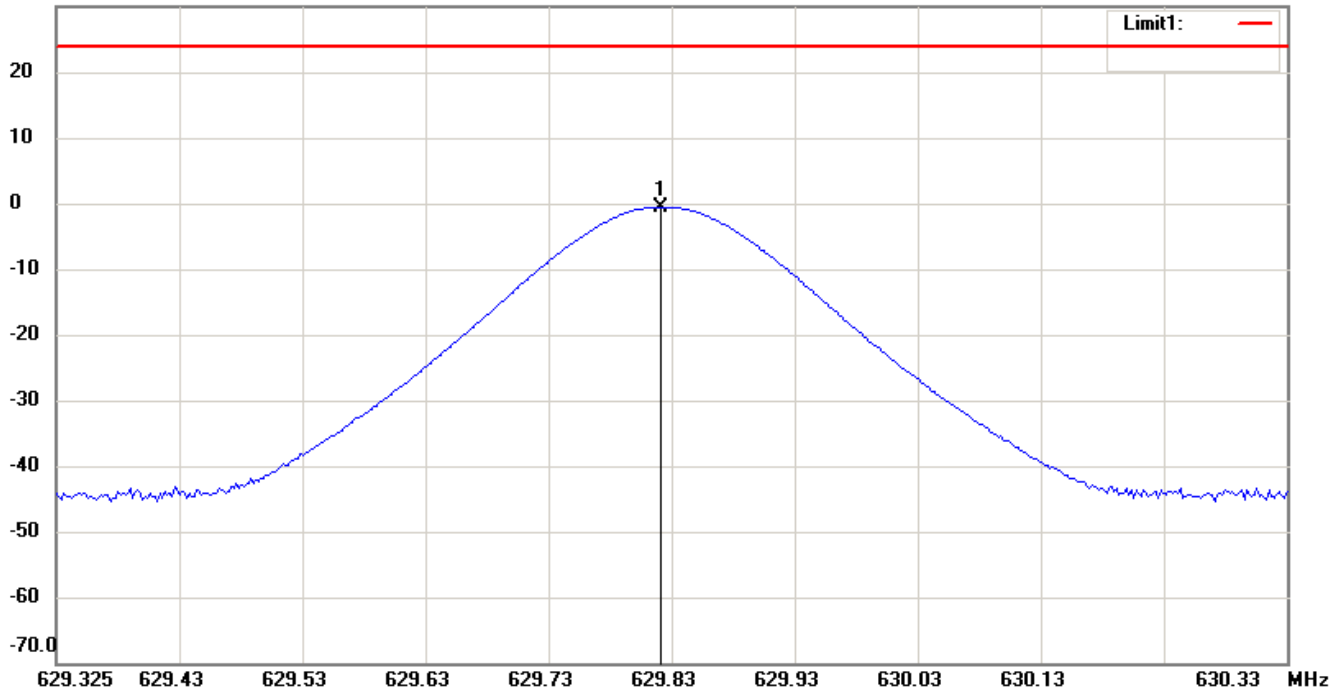
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

629.825 MHz

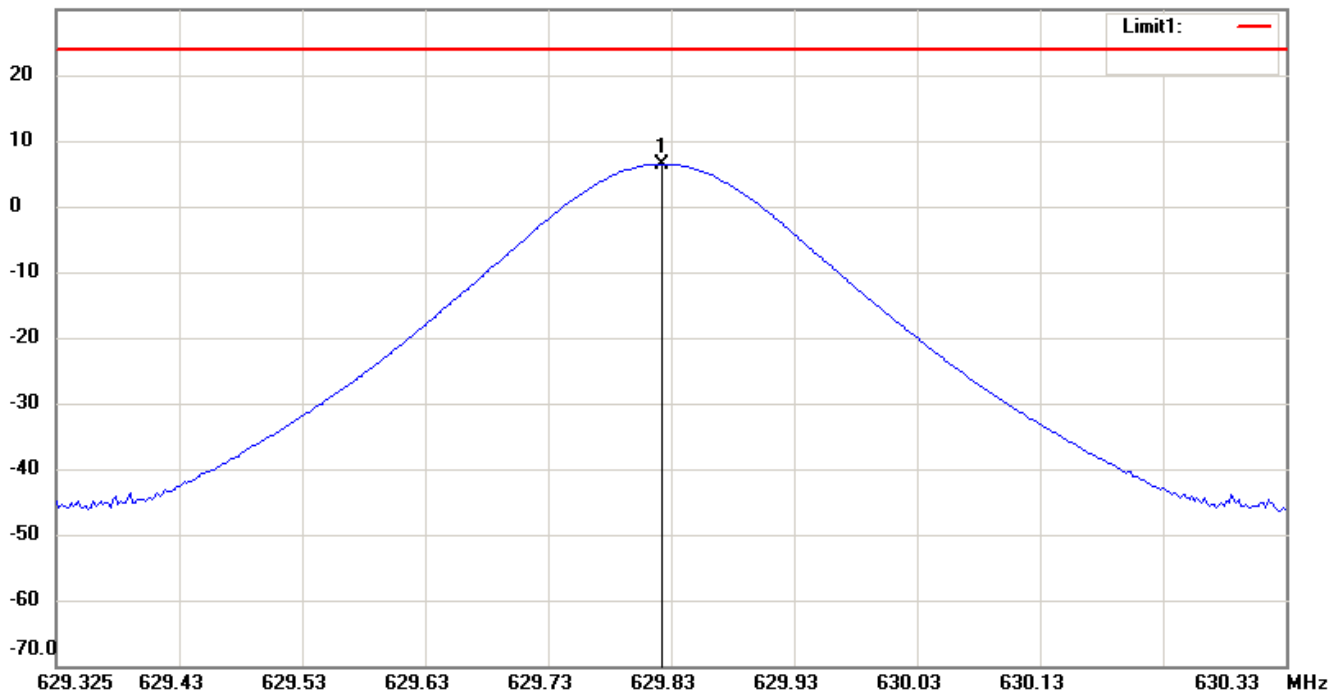
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



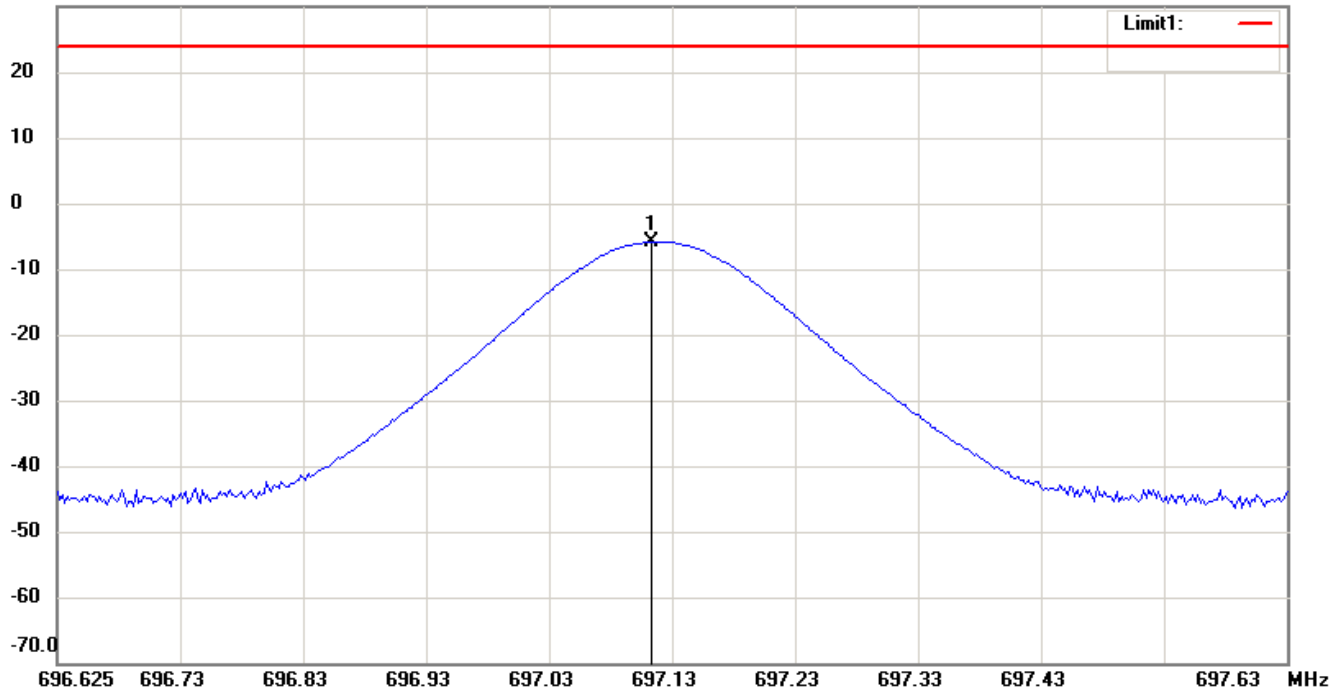
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

697.125 MHz

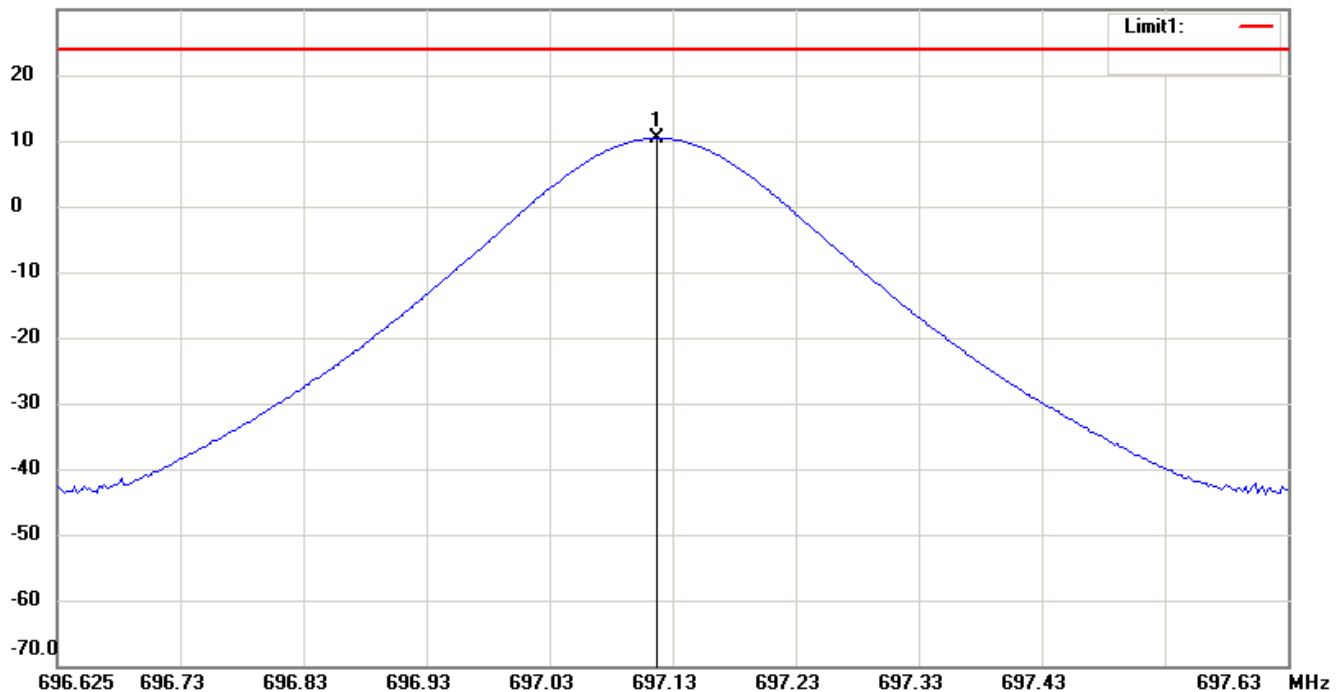
Antenna Polarization H

30.0 dBm



Antenna Polarization V

30.0 dBm



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



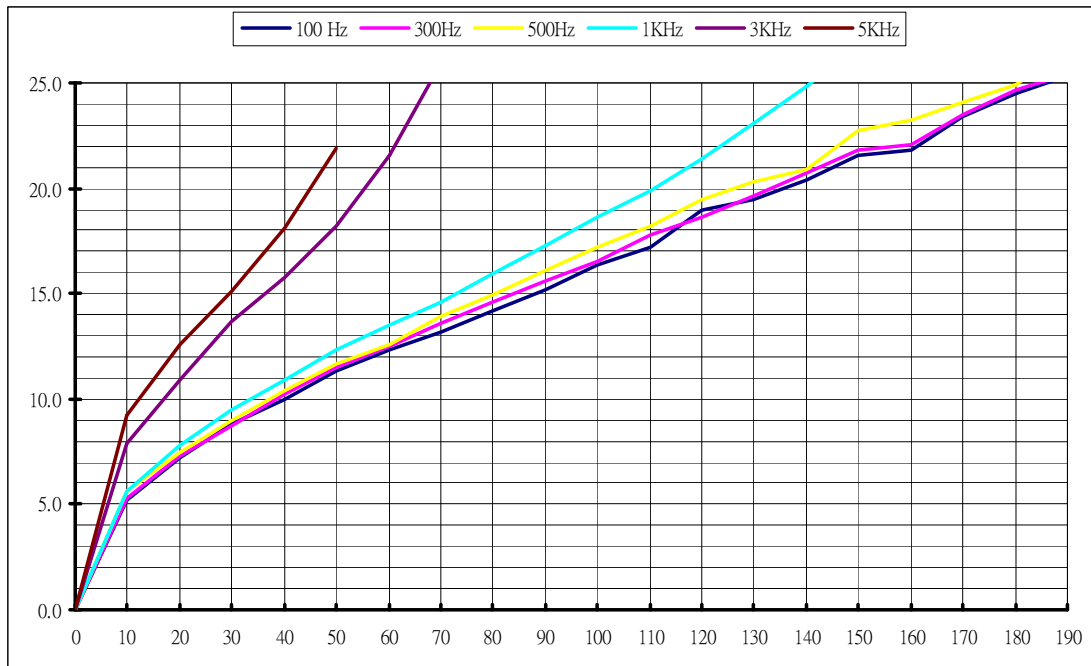
Registration number: W6M21409-14514-C-1

FCC ID: JEBUF-18HE

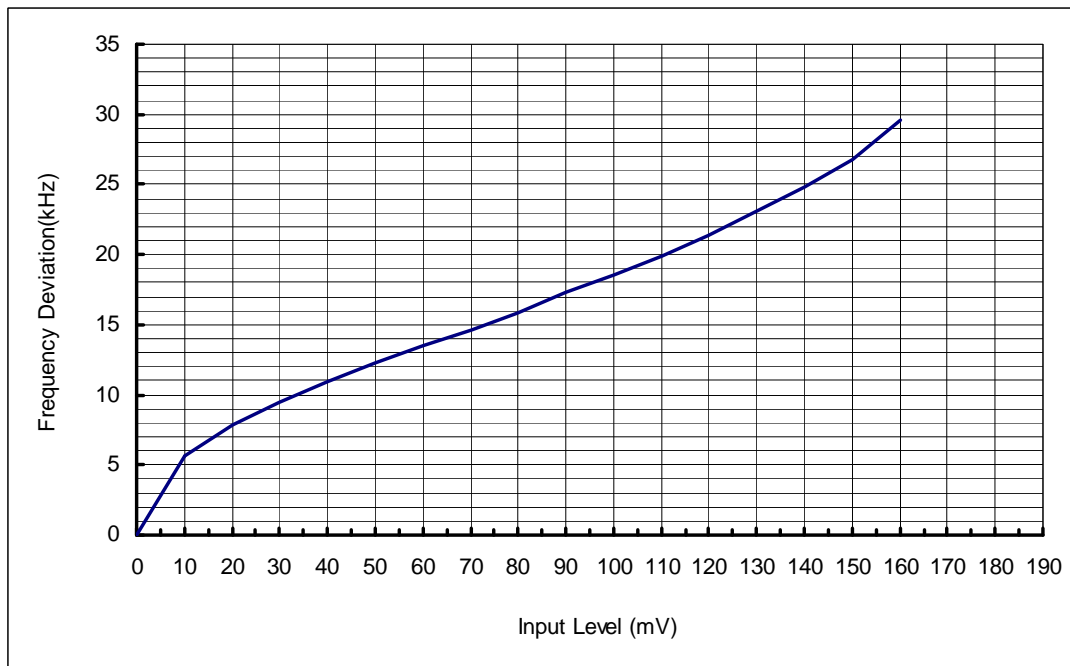
Modulation Deviation and Audio frequency response

520.125 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

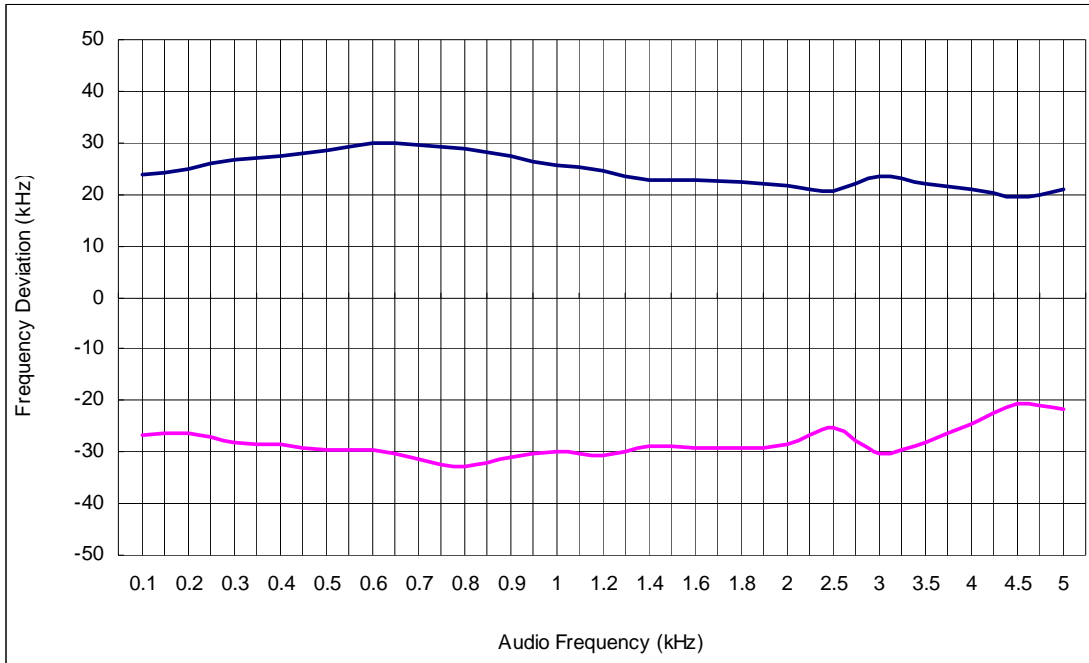




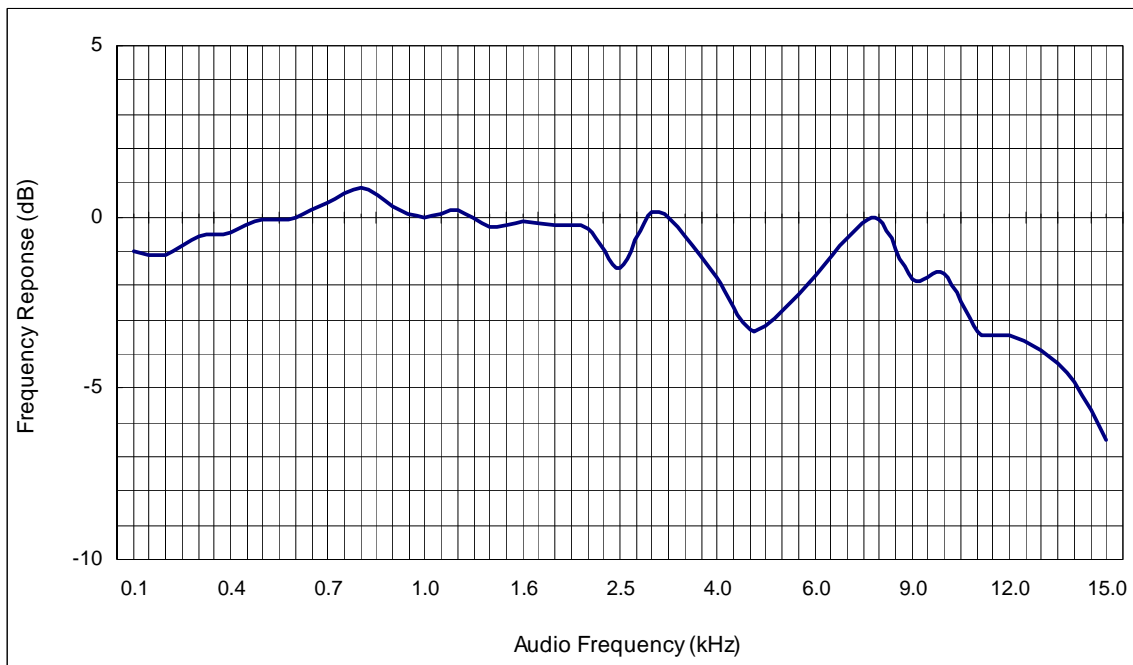
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response



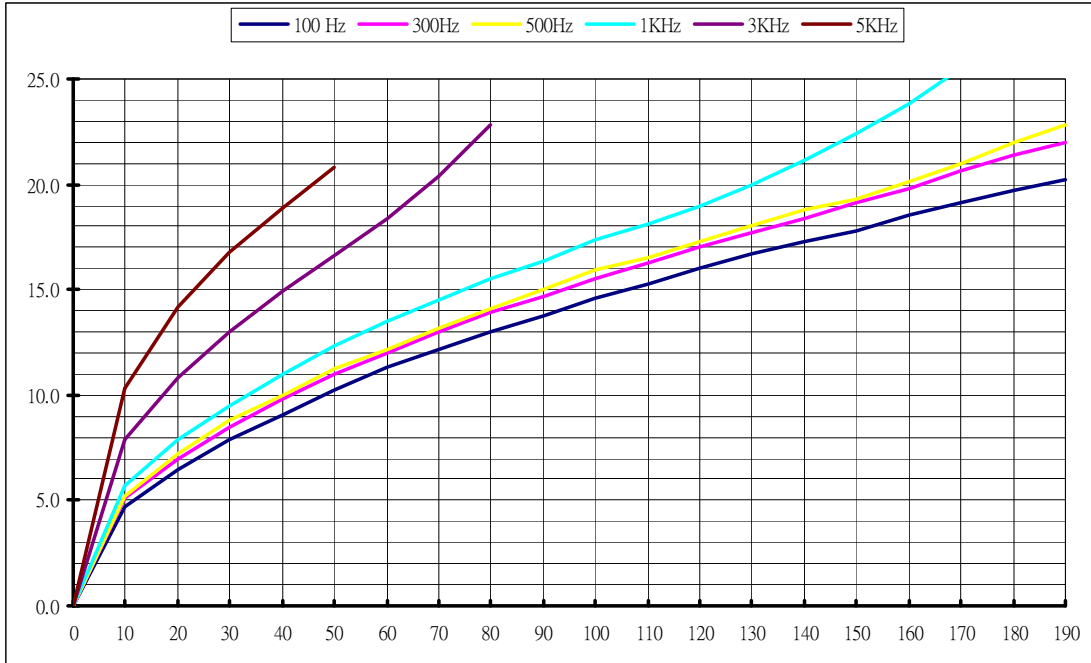


Registration number: W6M21409-14514-C-1

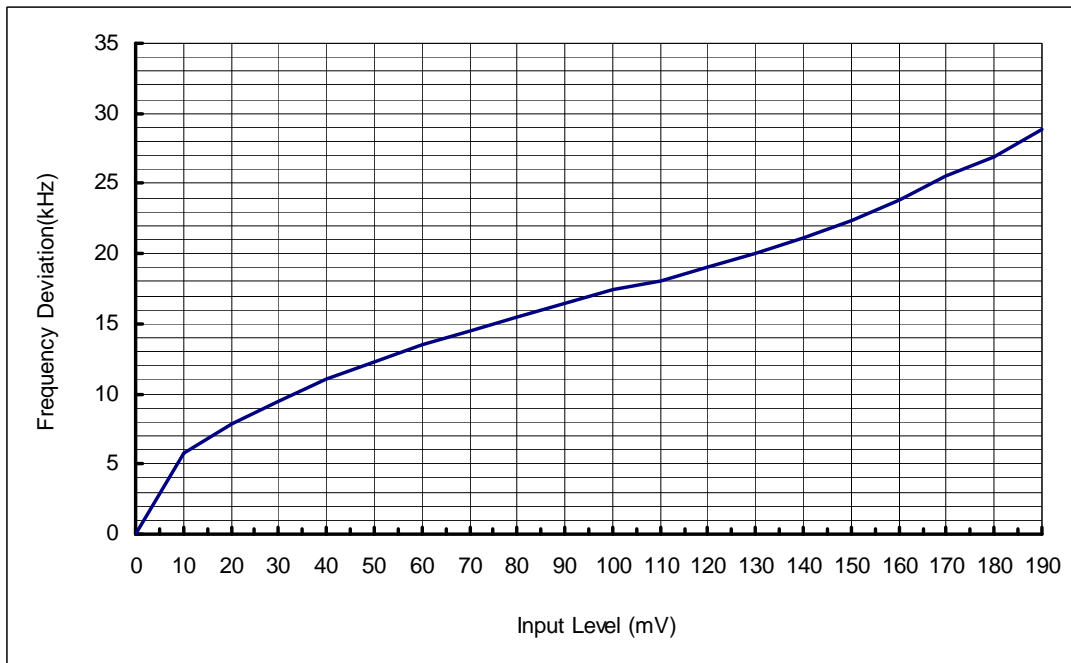
FCC ID: JEBUT-16HE

544.125 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

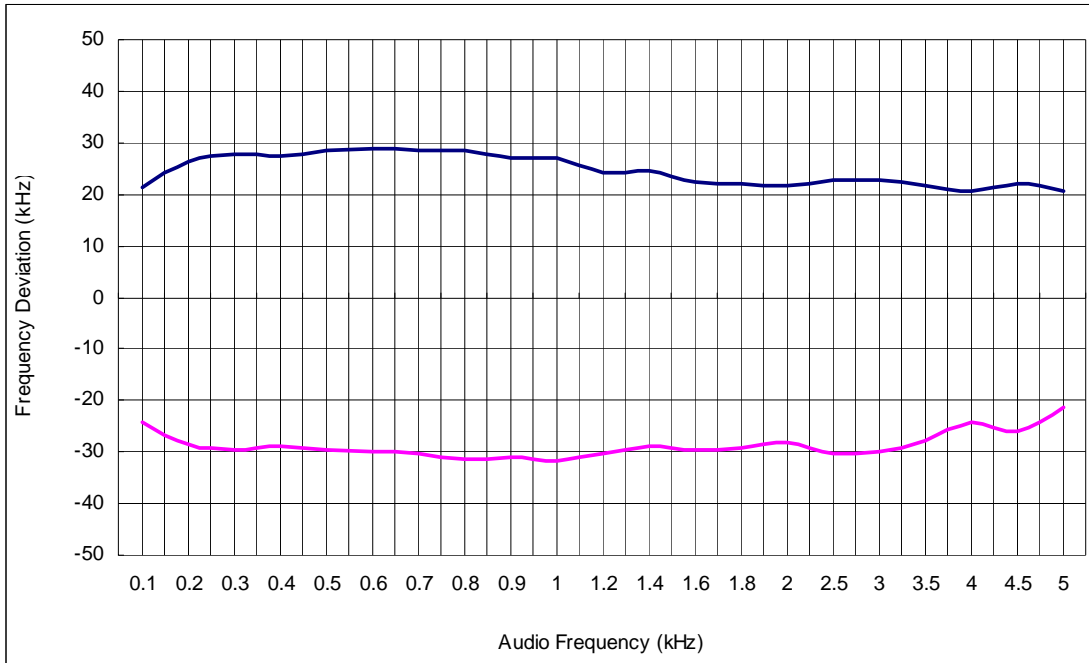




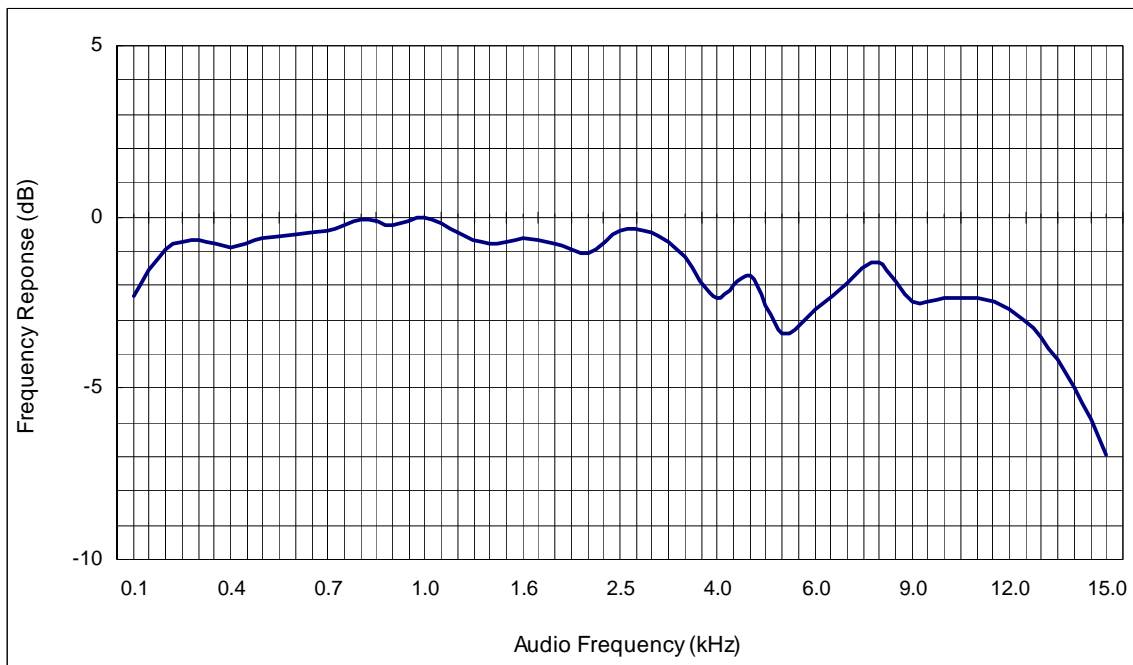
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response



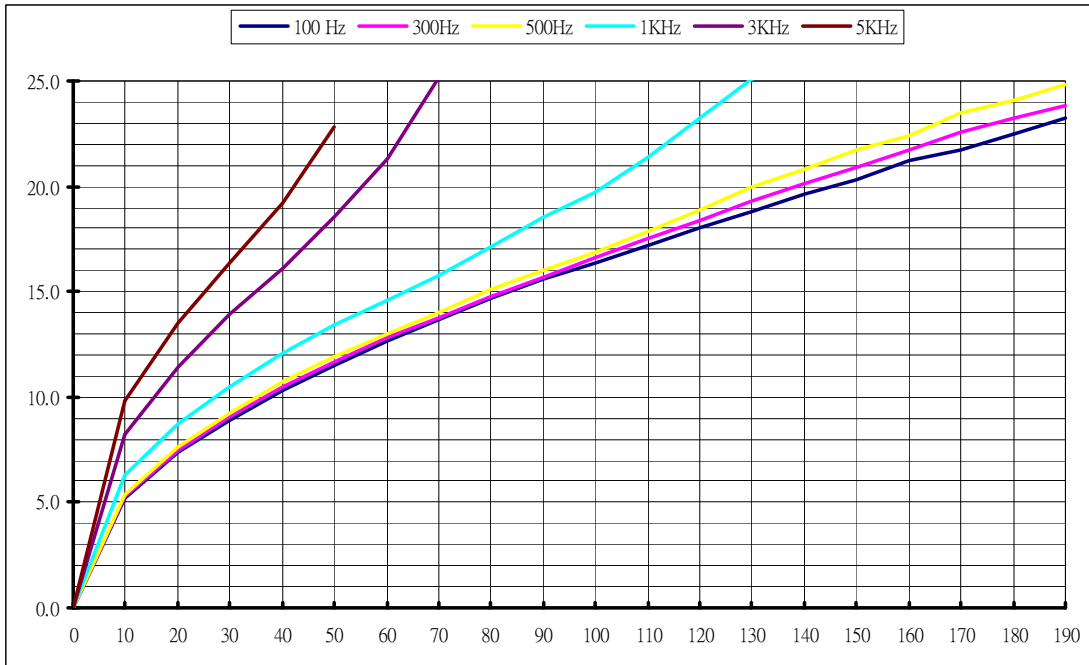


Registration number: W6M21409-14514-C-1

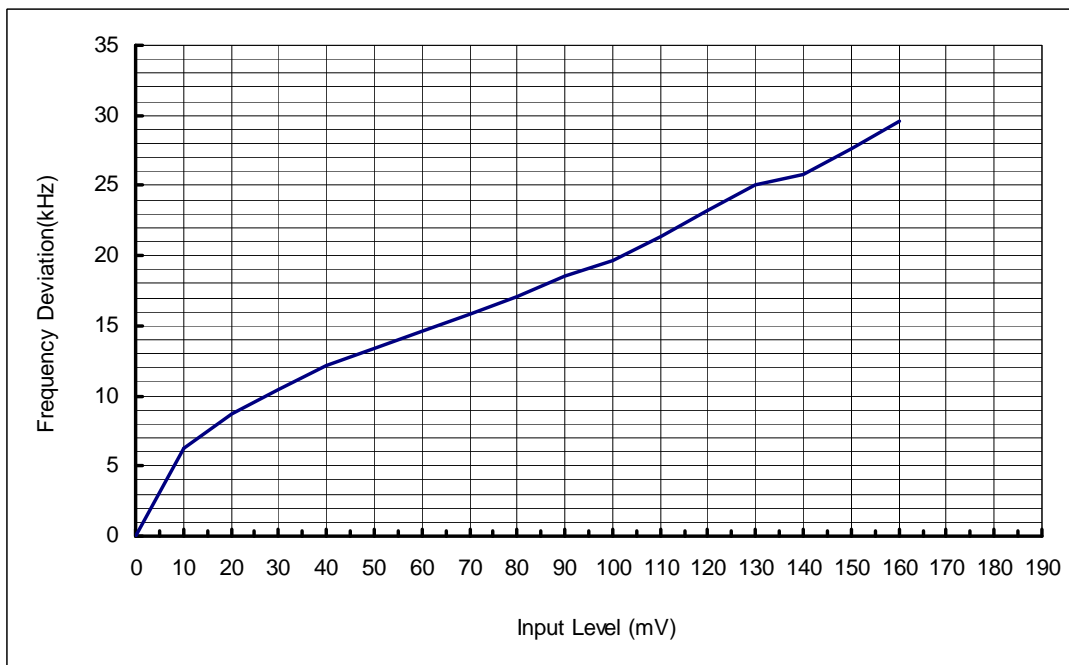
FCC ID: JEBUT-16HE

607.225 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

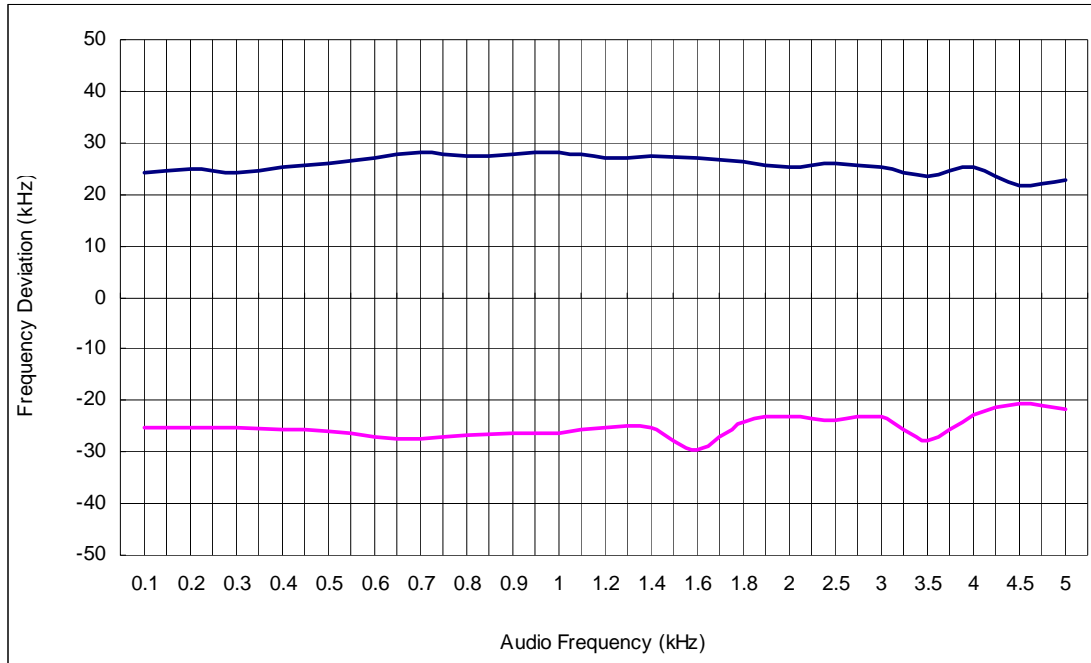




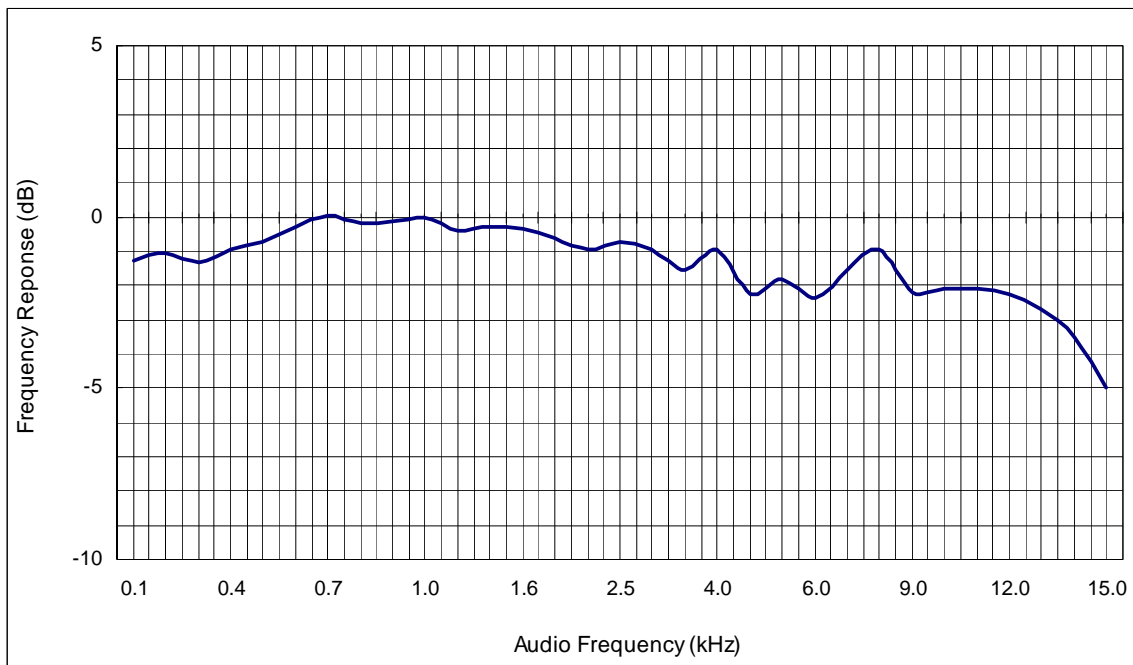
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response



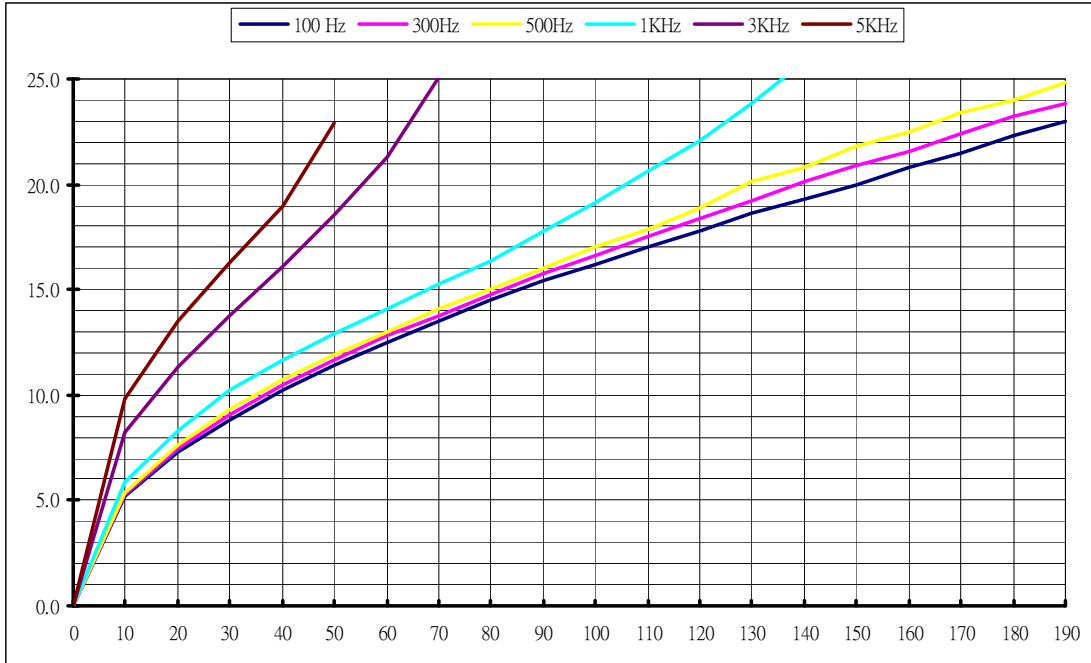


Registration number: W6M21409-14514-C-1

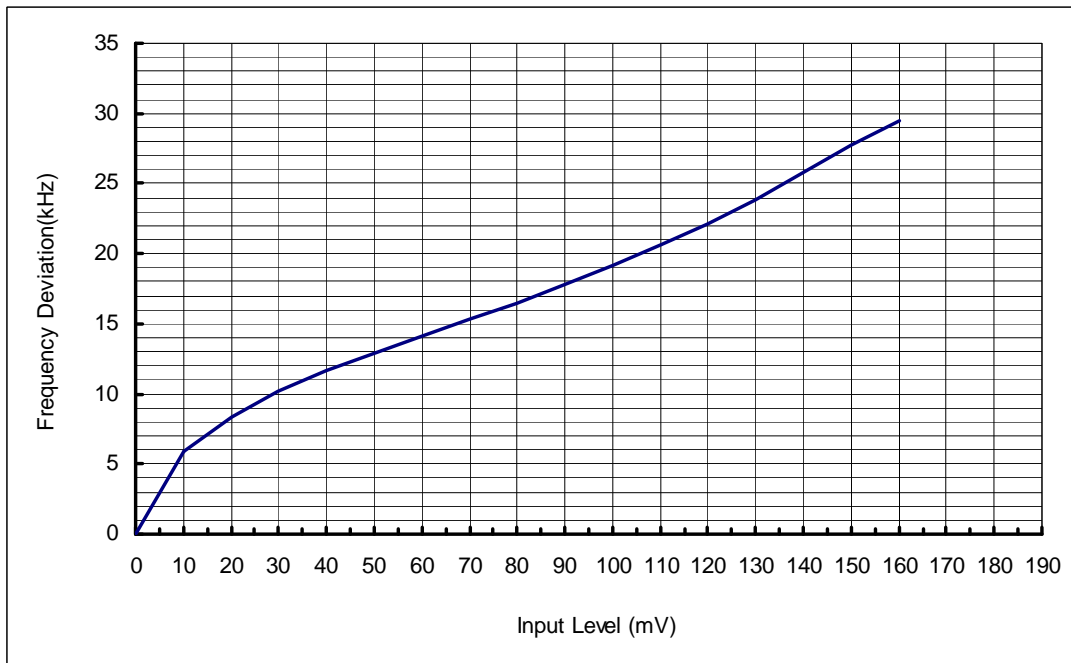
FCC ID: JEBUT-16HE

615.025 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

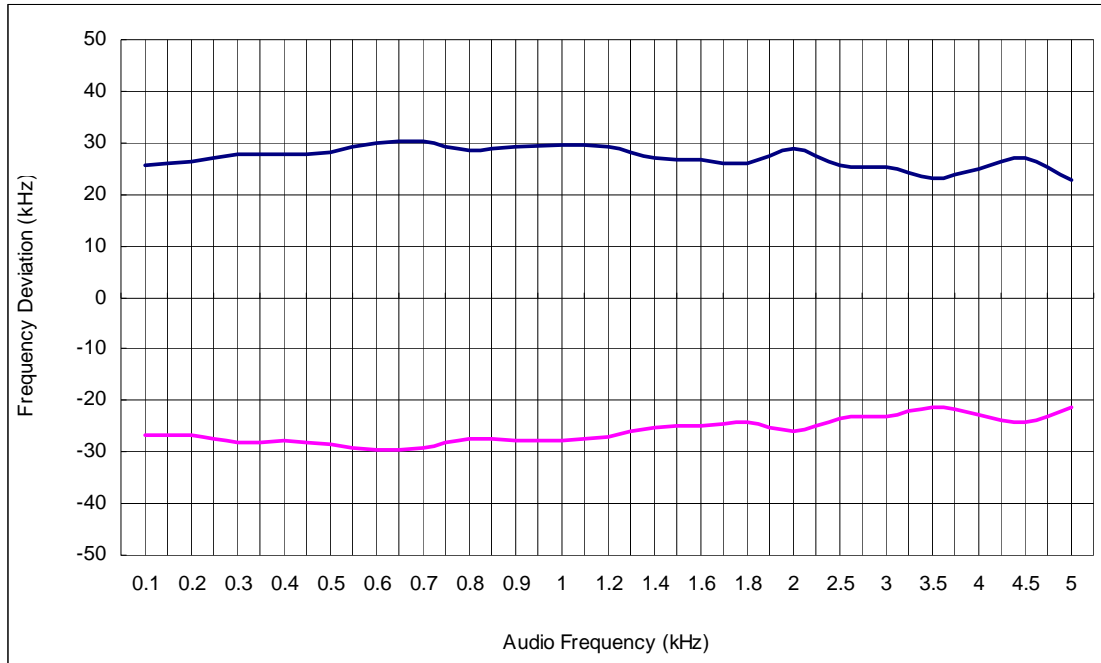




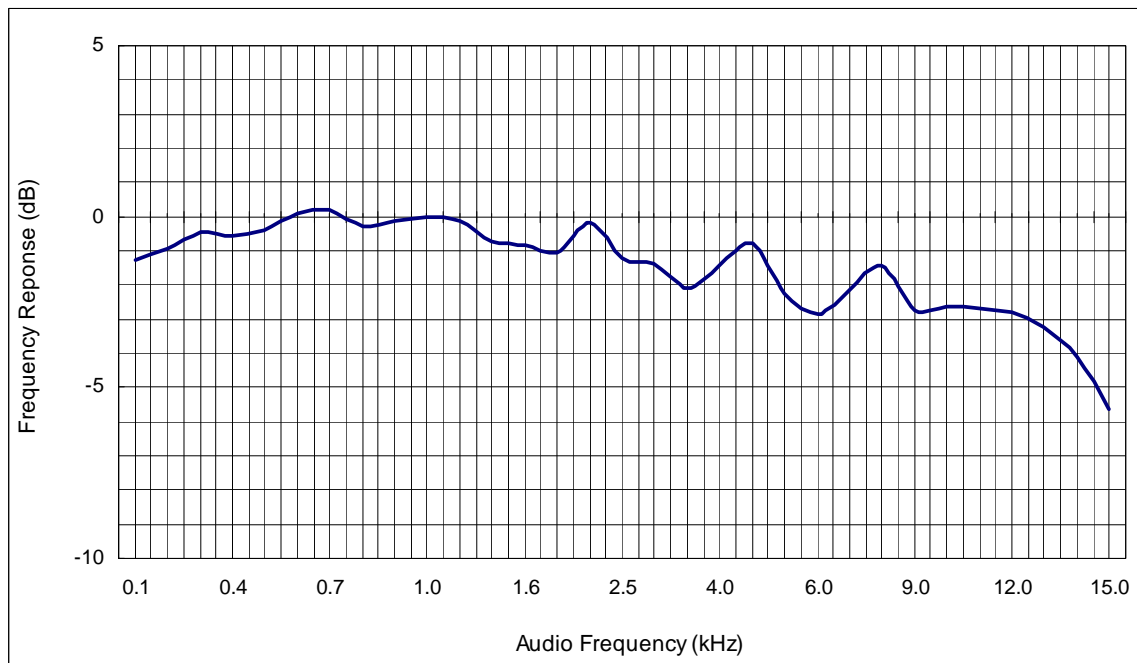
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response



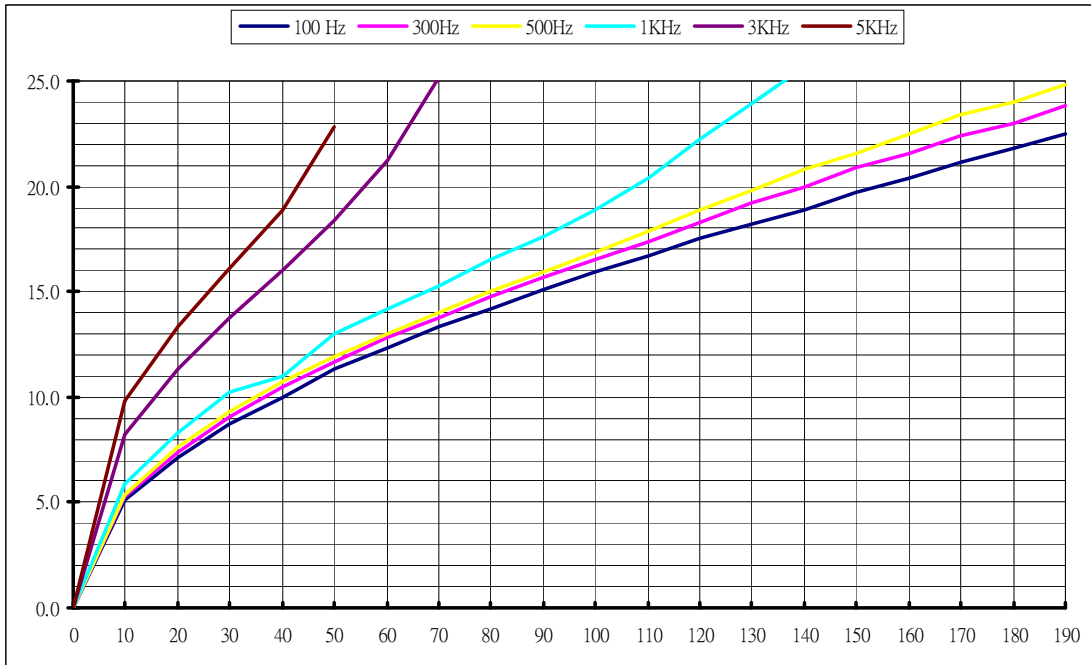


Registration number: W6M21409-14514-C-1

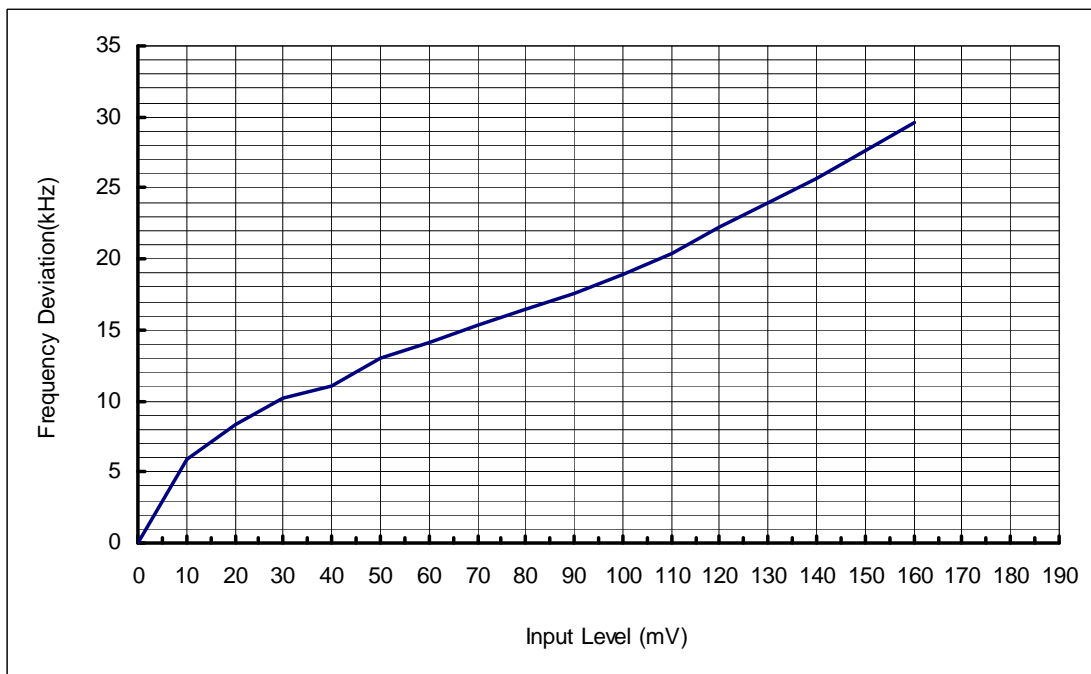
FCC ID: JEBUT-16HE

629.825MHz

Modulation Characteristics



Frequency Deviation at 1kHz

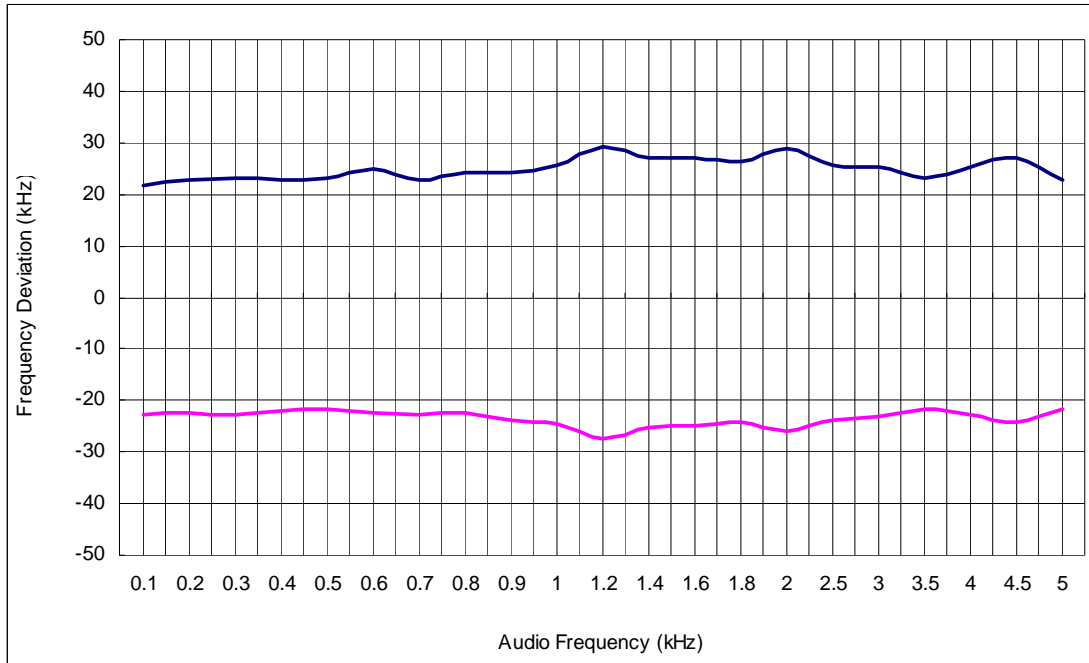




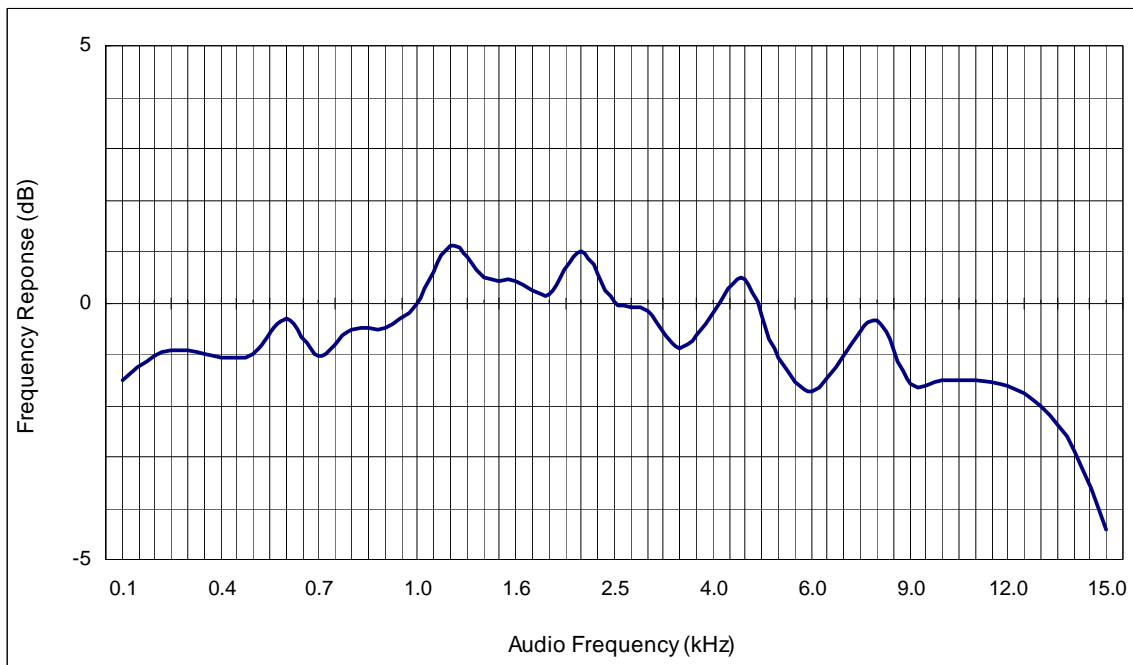
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response



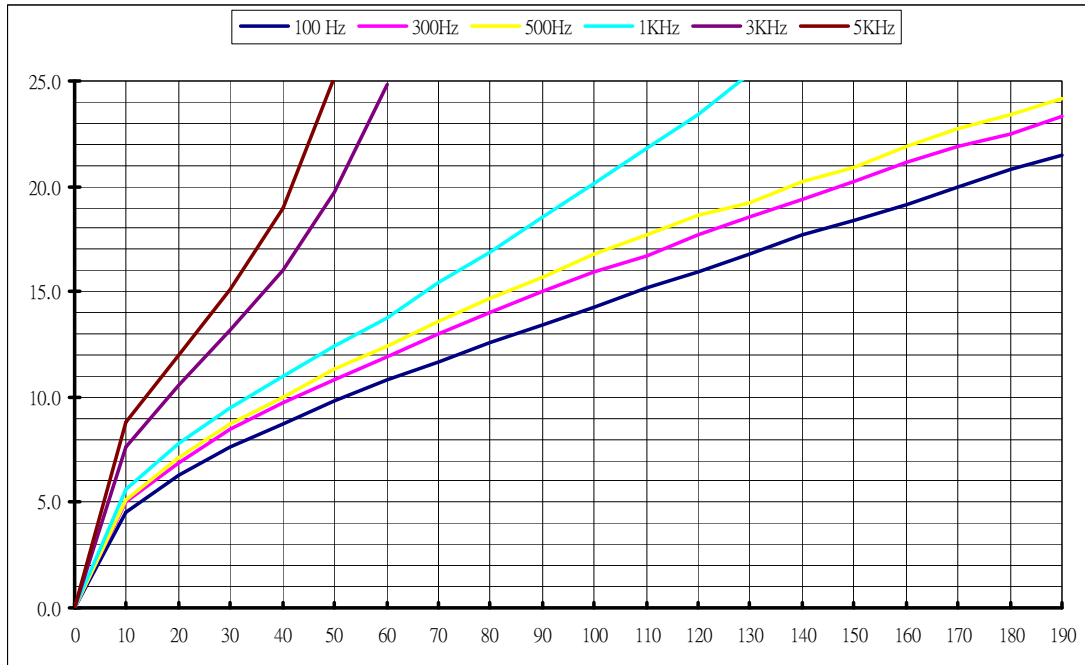


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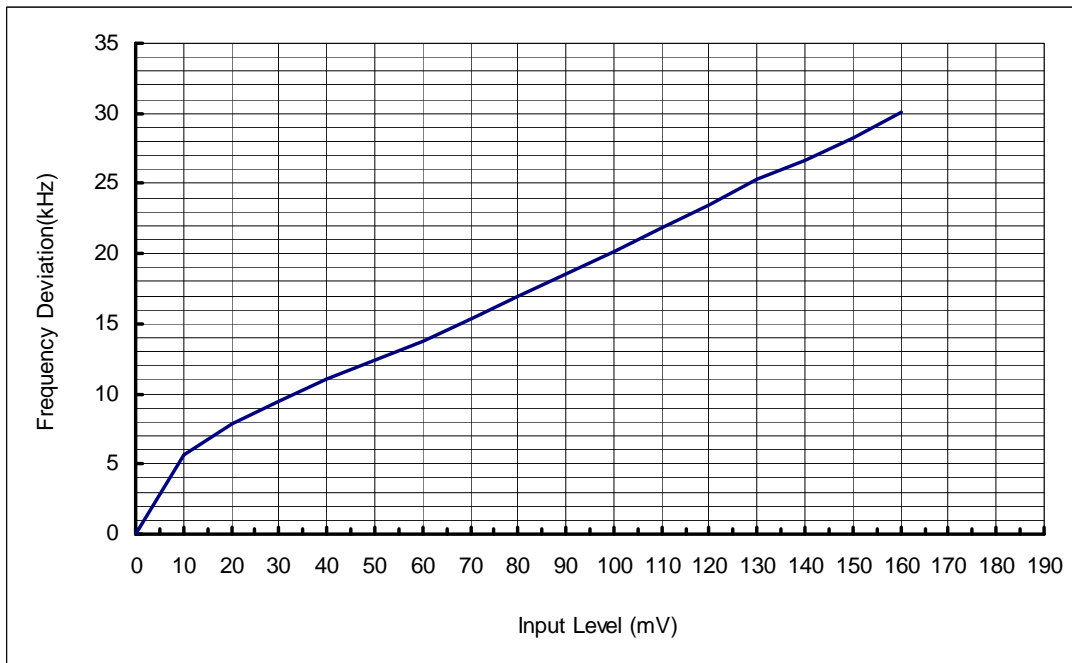
FCC ID: JEBUT-16HE

697.125 MHz

Modulation Characteristics



Frequency Deviation at 1kHz

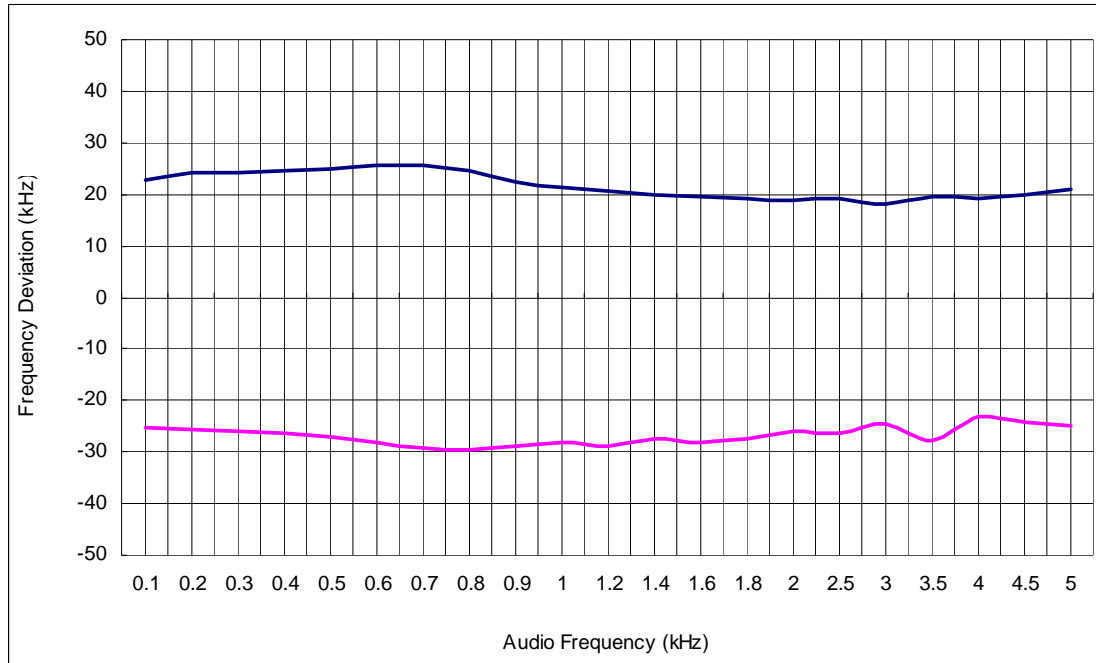




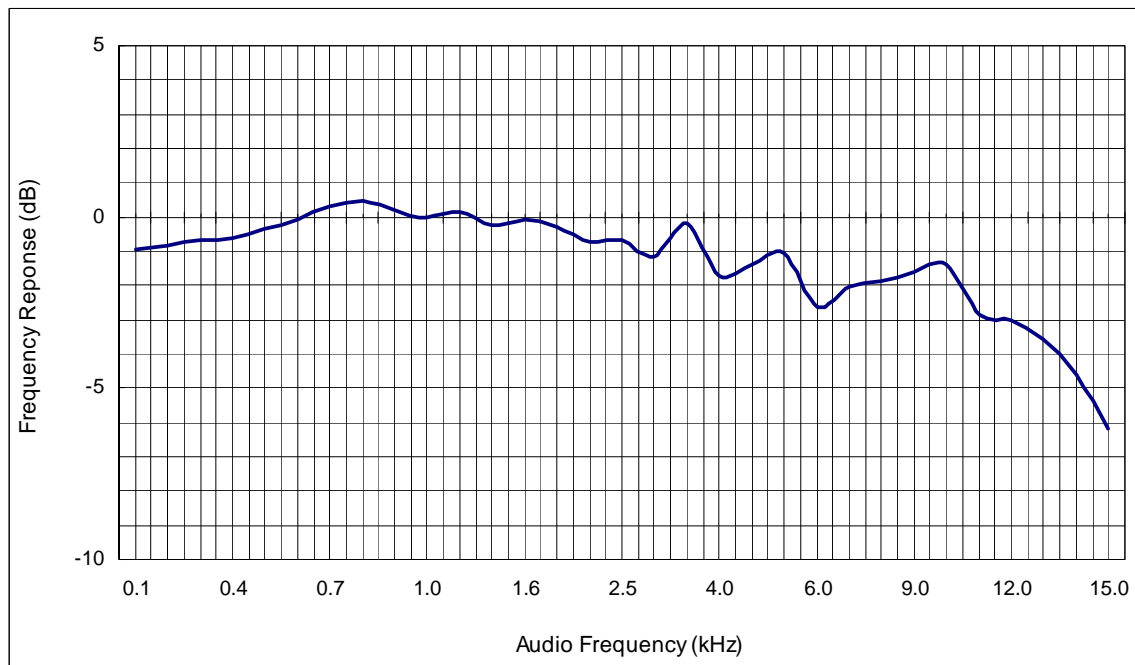
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Frequency Deviation



Audio Response

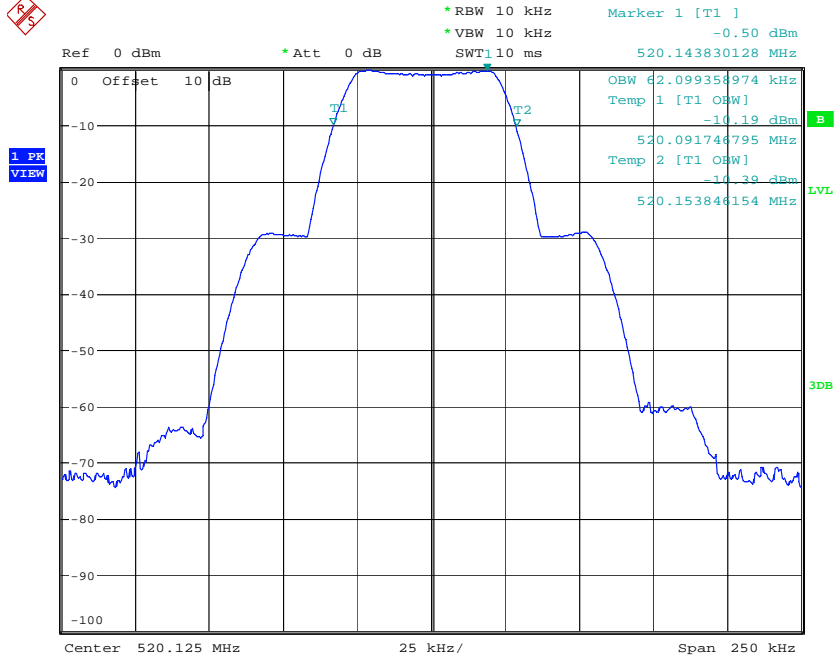




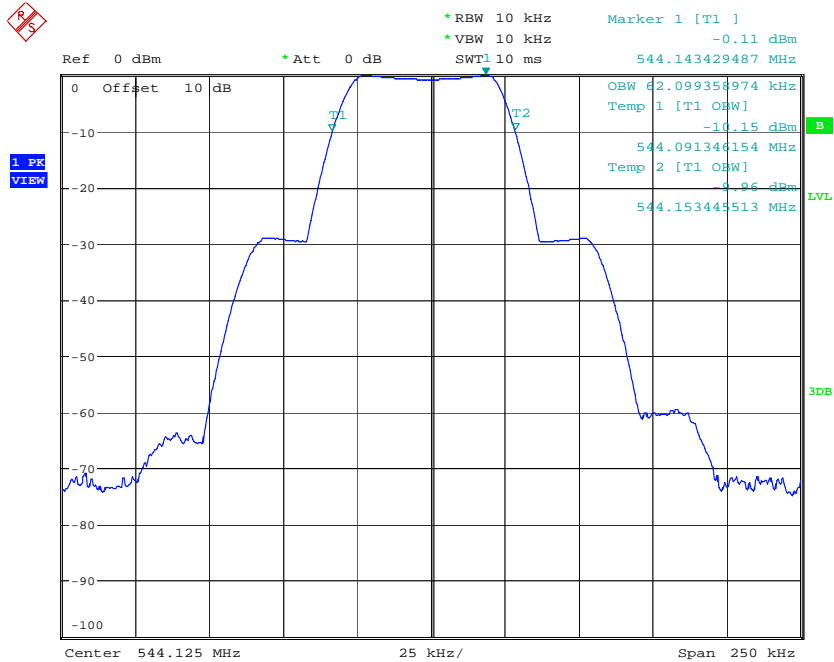
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Occupied Bandwidth



OCCUPIED BANDWIDTH 1KHZ
Date: 14.OCT.2014 17:23:03



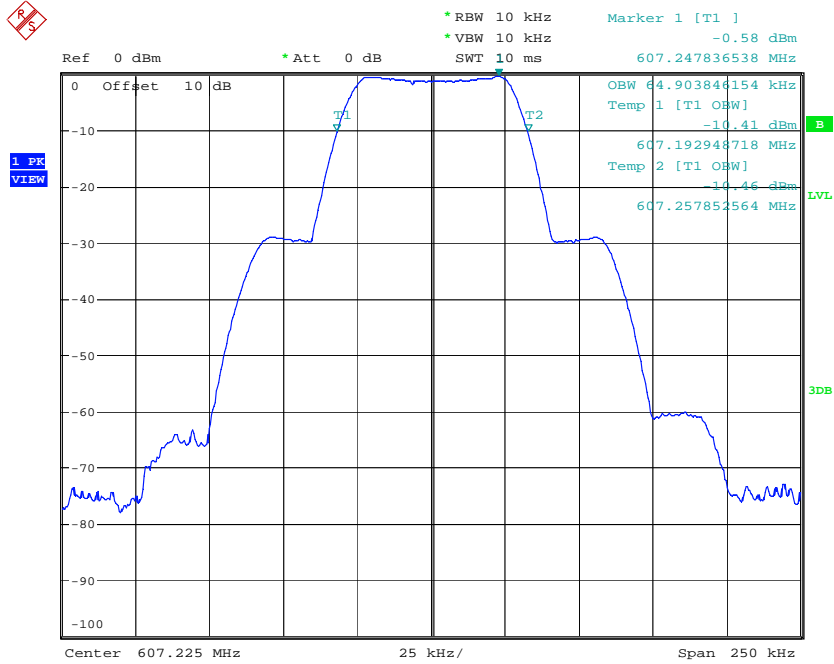
OCCUPIED BANDWIDTH 1KHZ
Date: 14.OCT.2014 17:55:58



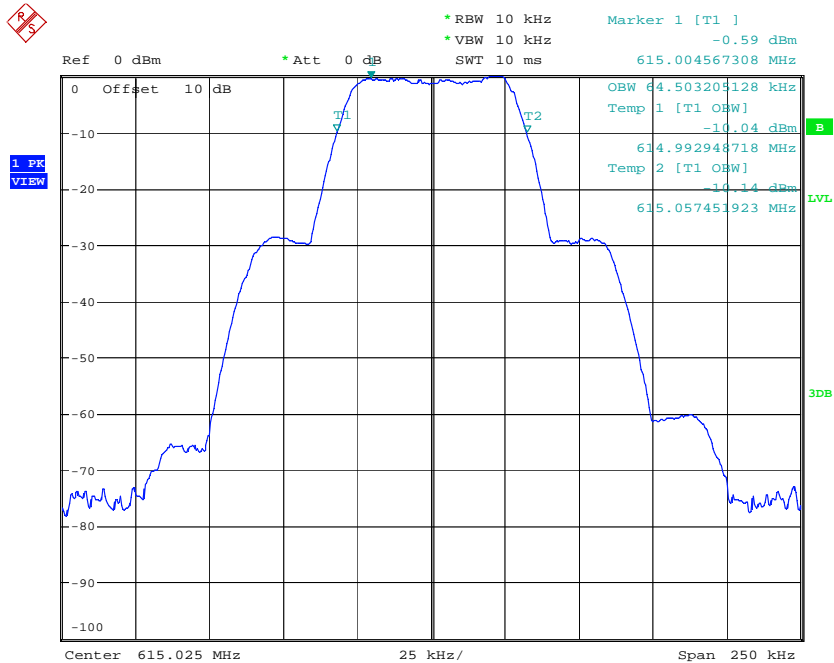
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



OCCUPIED BANDWIDTH 1KHZ
Date: 14.OCT.2014 17:57:53



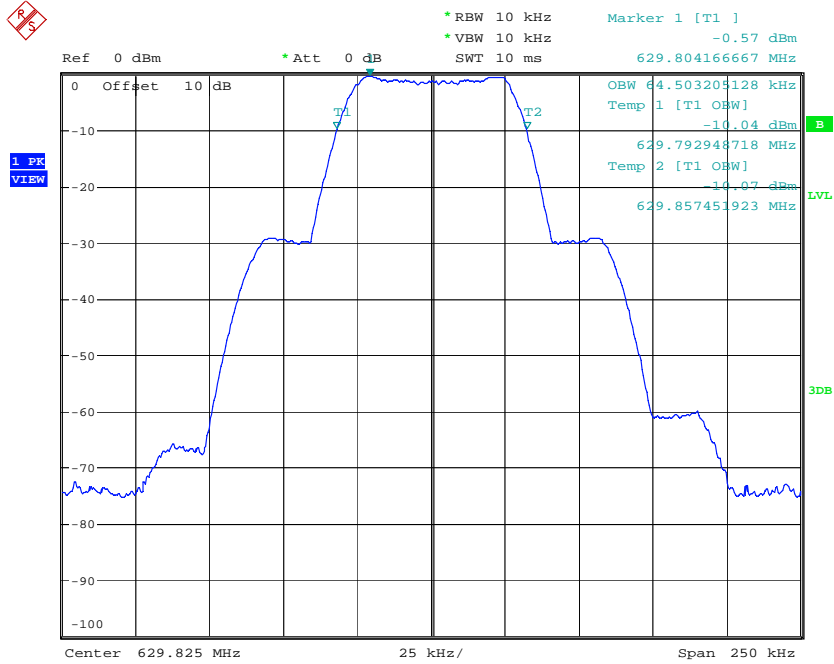
OCCUPIED BANDWIDTH 1KHZ
Date: 15.OCT.2014 17:29:28



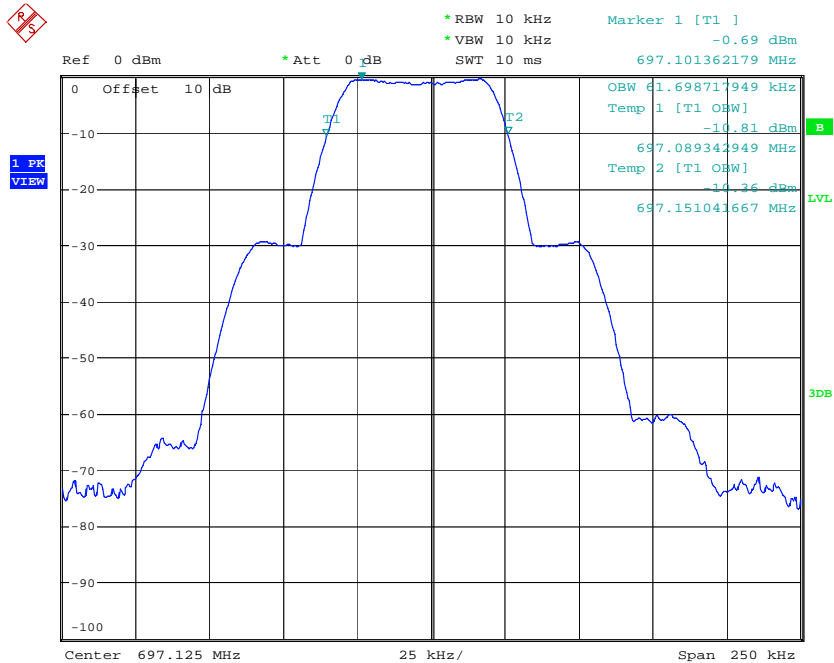
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



OCCUPIED BANDWIDTH 1KHZ
Date: 15.OCT.2014 17:38:59



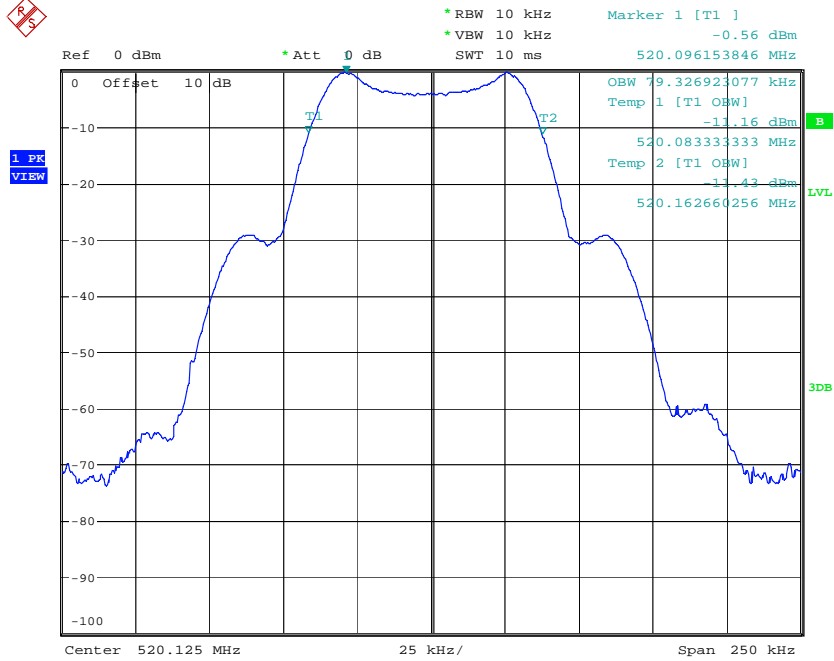
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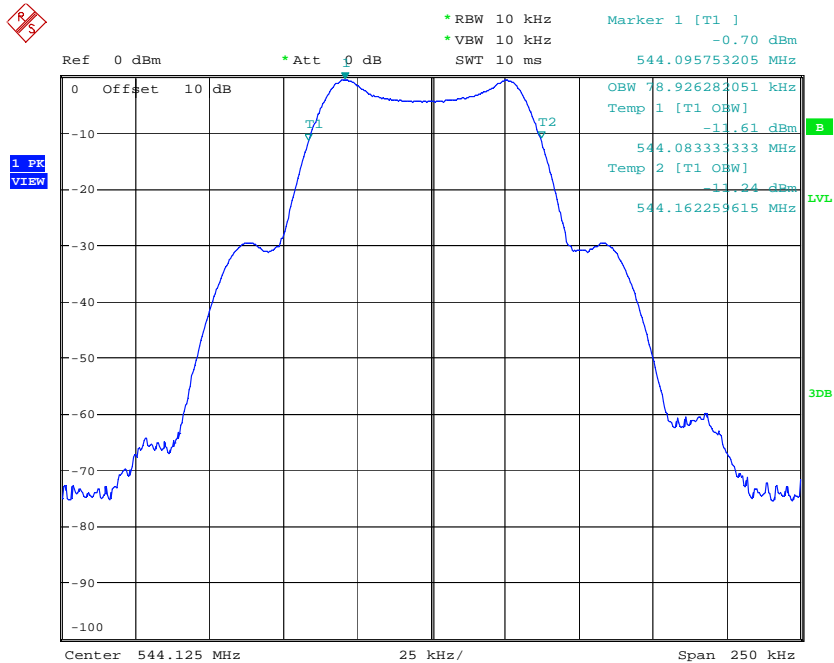
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



OCCUPIED BANDWIDTH 2.5KHZ
Date: 14.OCT.2014 17:23:49



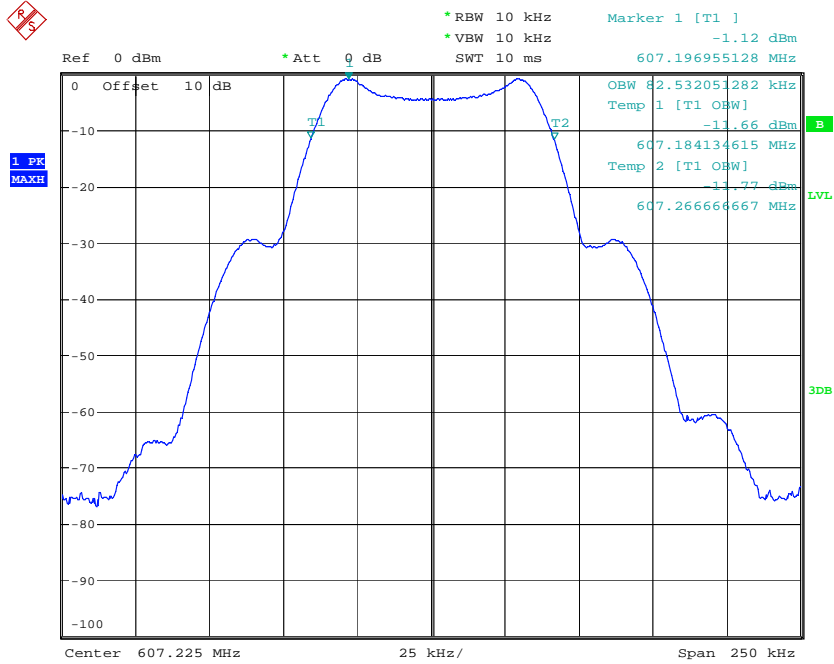
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Date: 14.OCT.2014 17:55:28



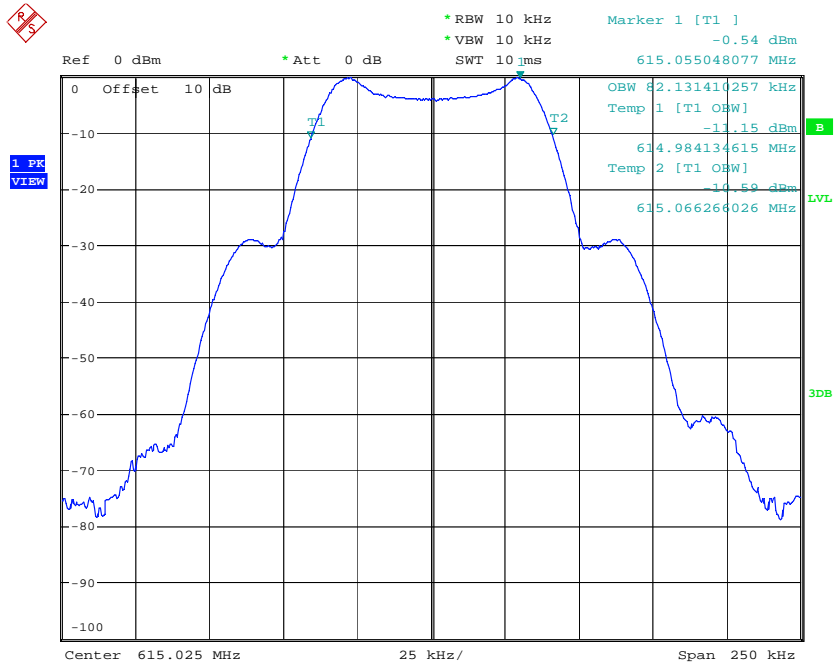
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



OCCUPIED BANDWIDTH 2.5KHZ
Date: 14.OCT.2014 17:58:18



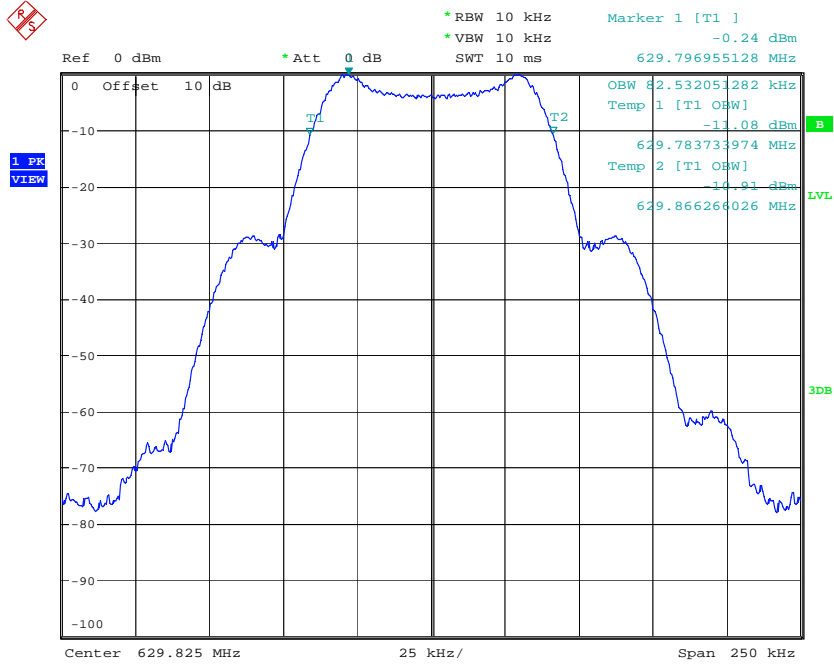
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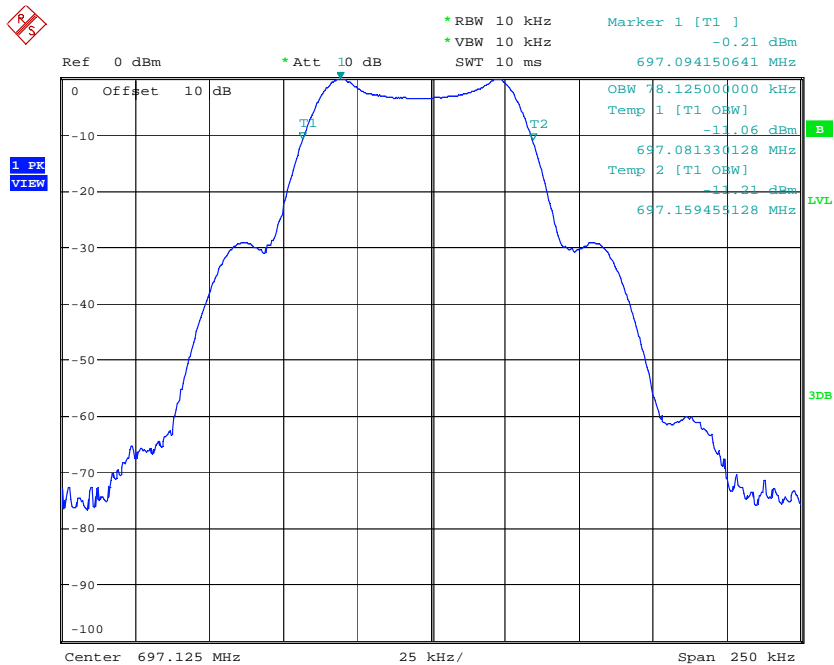
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

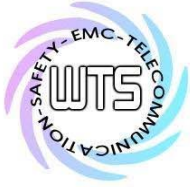
FCC ID: JEBUT-16HE



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Date: 15.OCT.2014 17:39:36



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Date: 14.OCT.2014 17:15:58

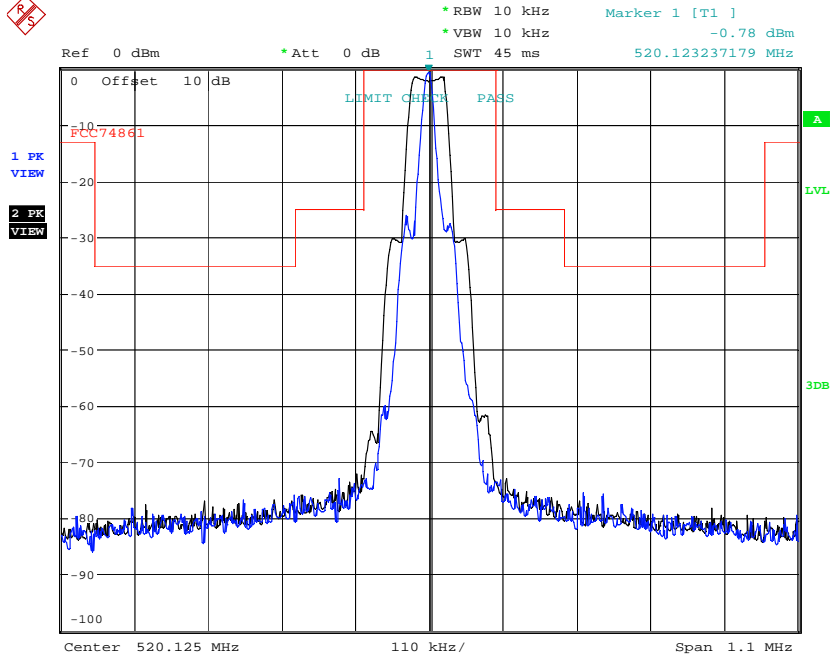


Worldwide Testing Services(Taiwan) Co., Ltd.

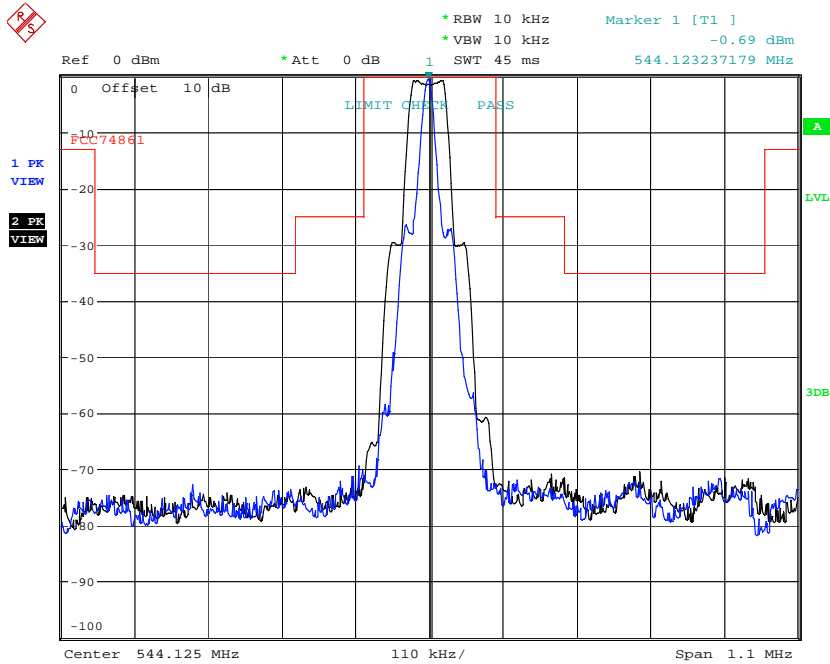
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Emission Mask



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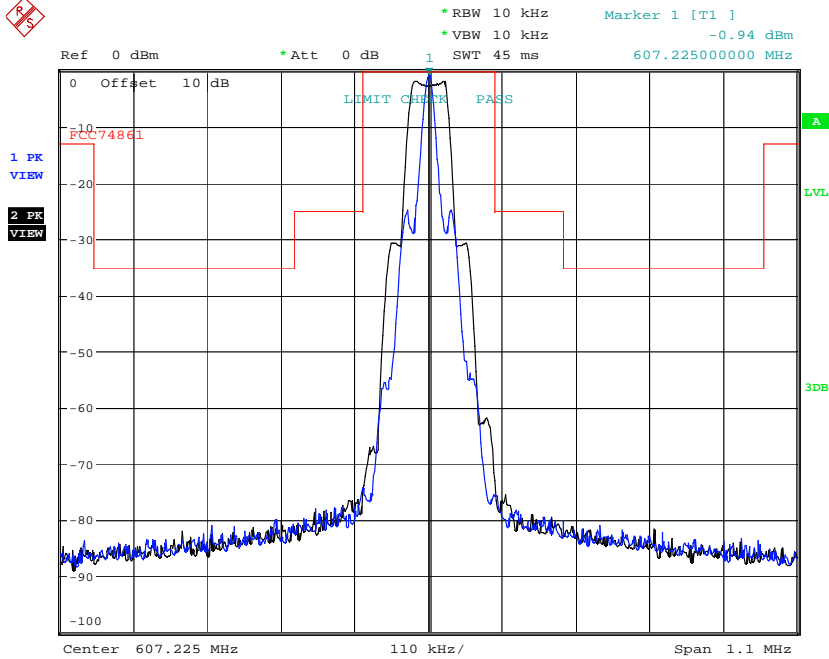
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Worldwide Testing Services(Taiwan) Co., Ltd.

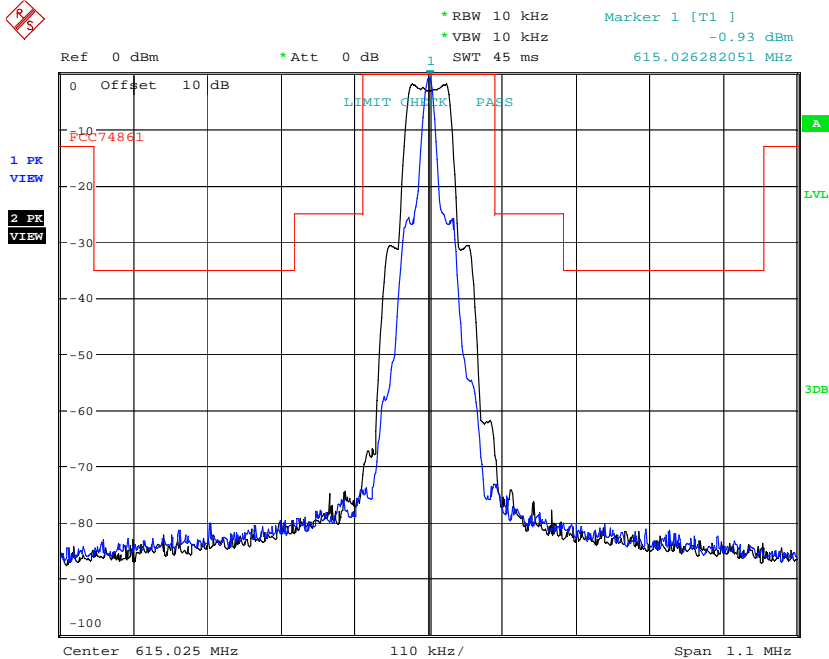
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



EMISSION MASK 607.225MHZ

Date: 15.OCT.2014 17:42:23



EMISSION MASK 615.025MHZ

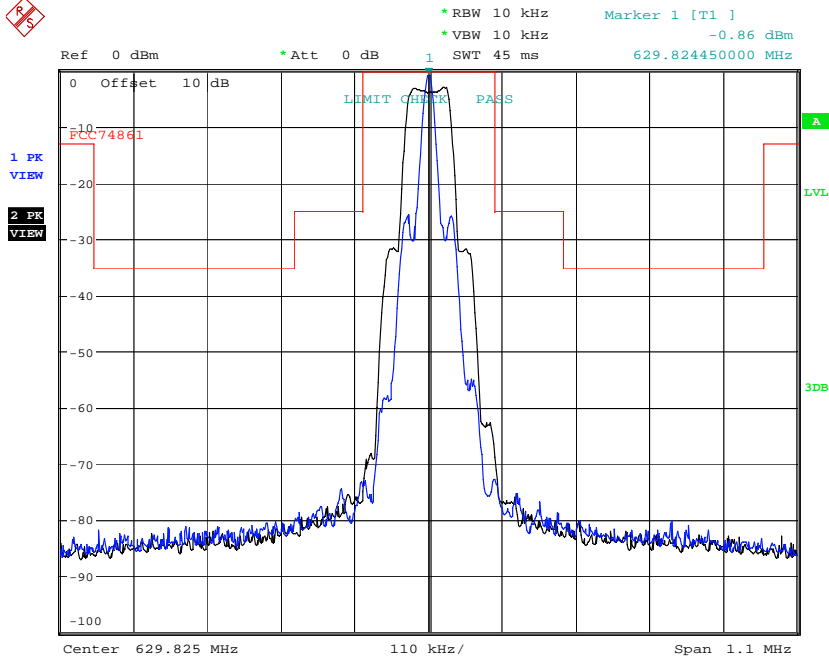
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Worldwide Testing Services(Taiwan) Co., Ltd.

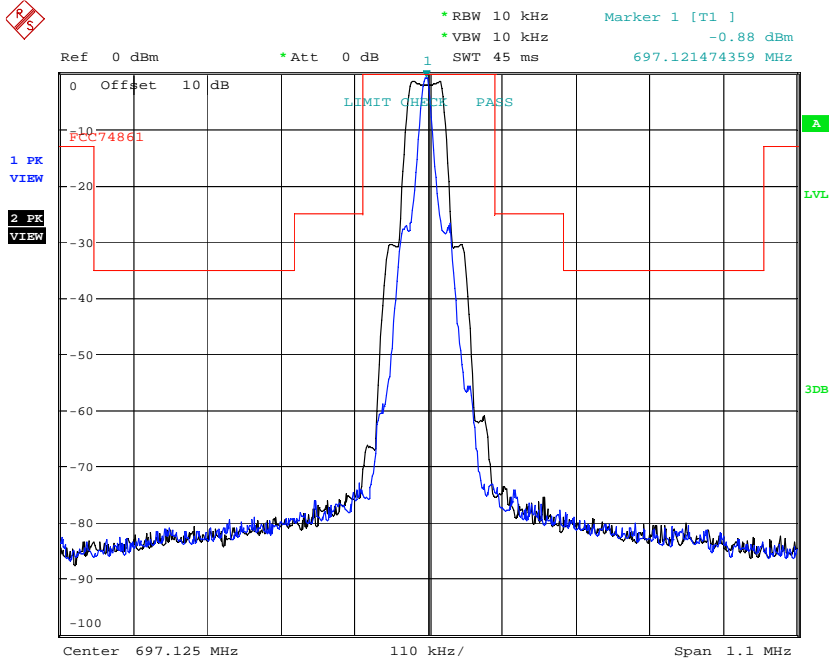
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



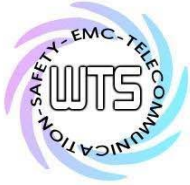
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Date: 15.OCT.2014 17:34:39



EMISSION MASK 697.125MHZ

Date: 15.OCT.2014 17:52:03



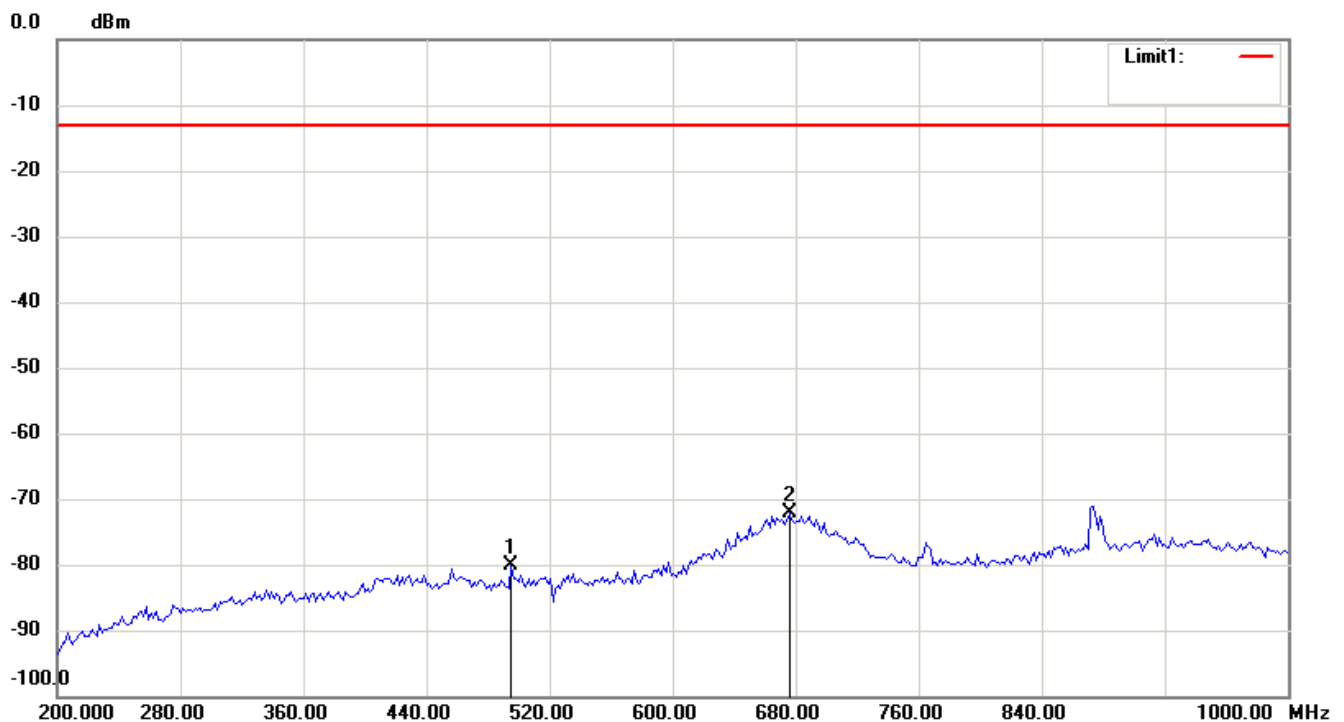
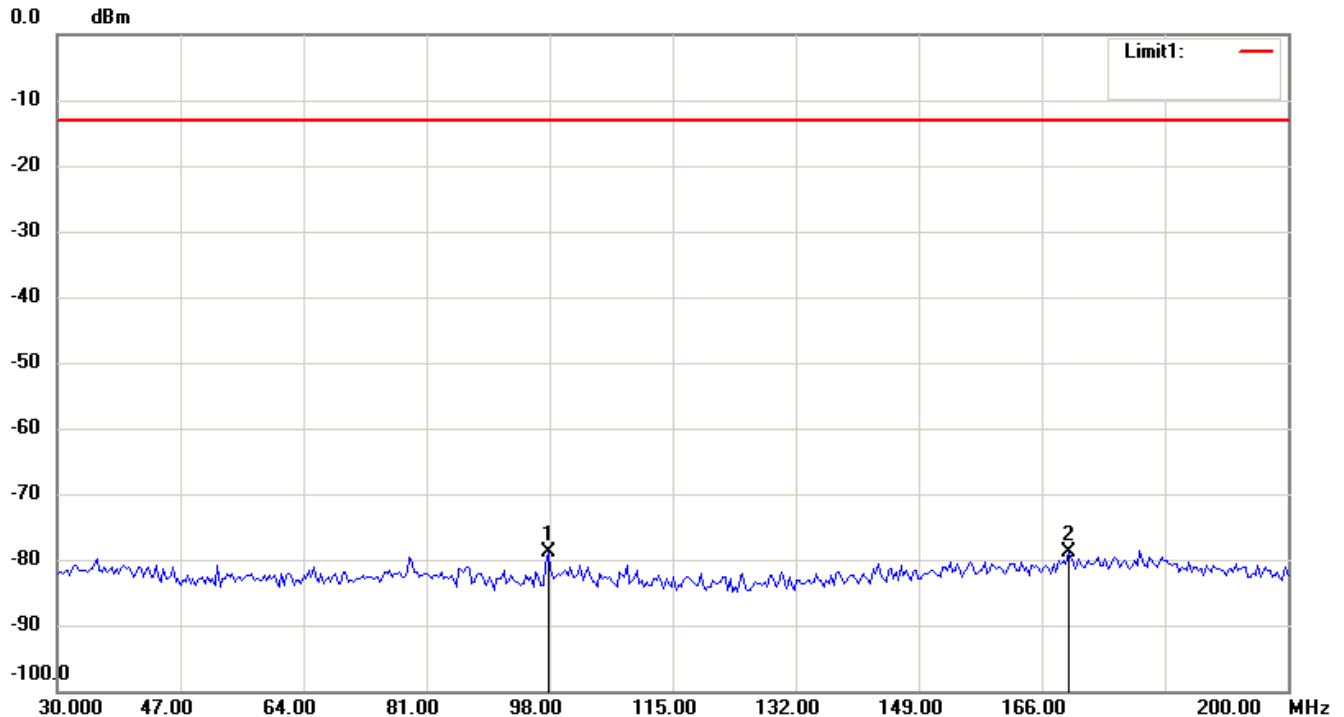
Registration number: W6M21409-14514-C-1

FCC ID: JEBUF-18HE

Radiation Spurious Emission

520.125 MHz

Antenna Polarization H



Note:

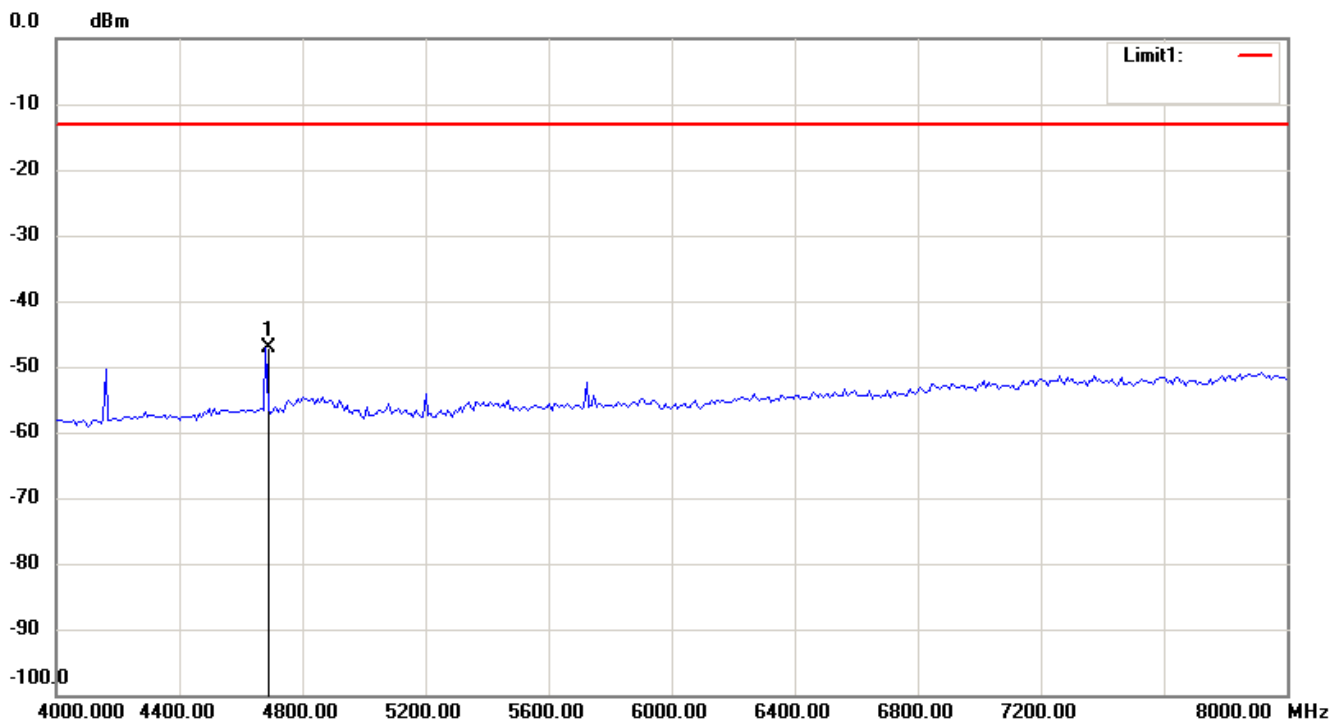
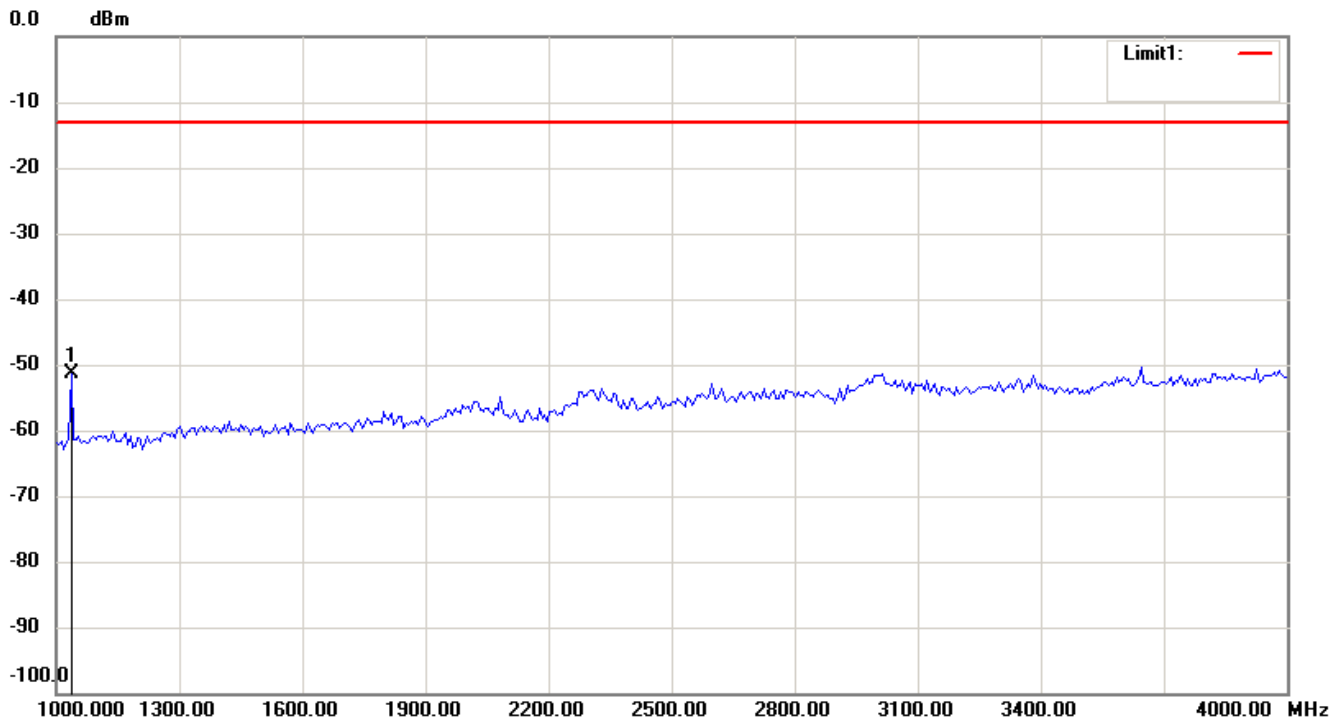
4. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
5. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
6. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

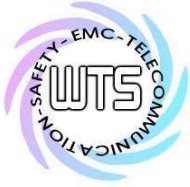
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

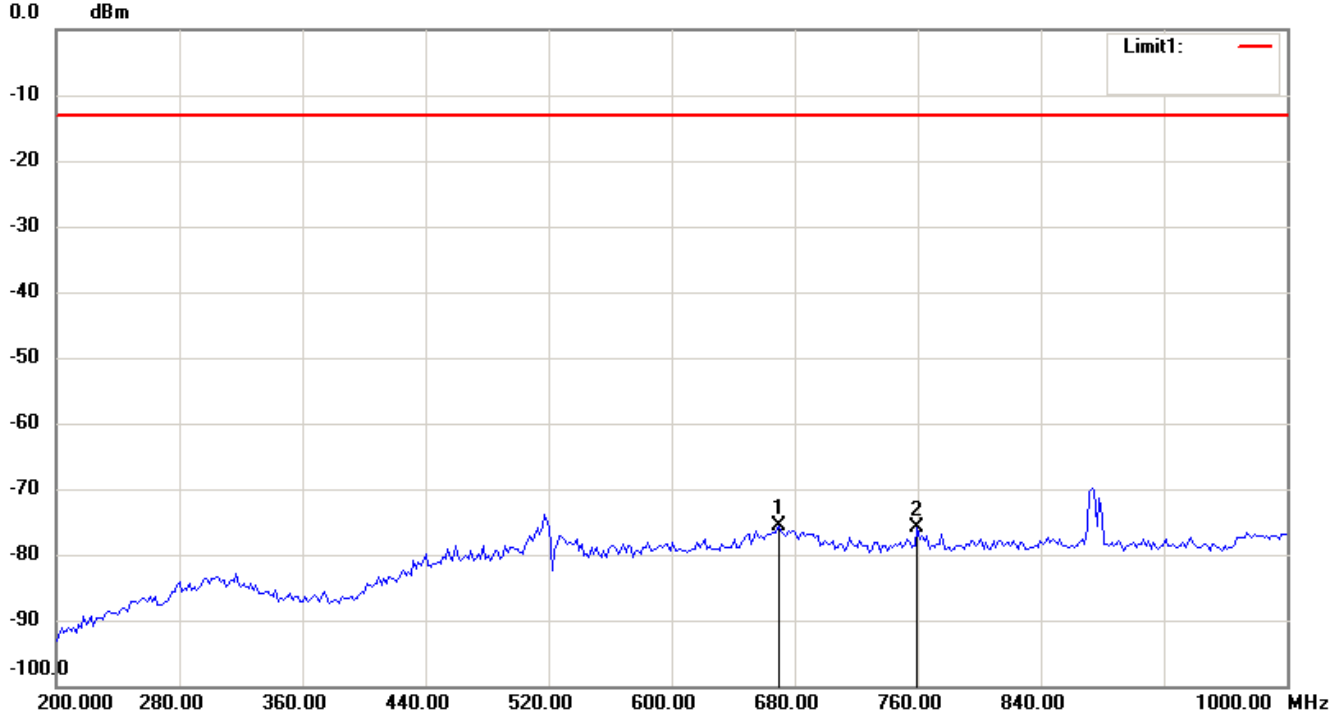
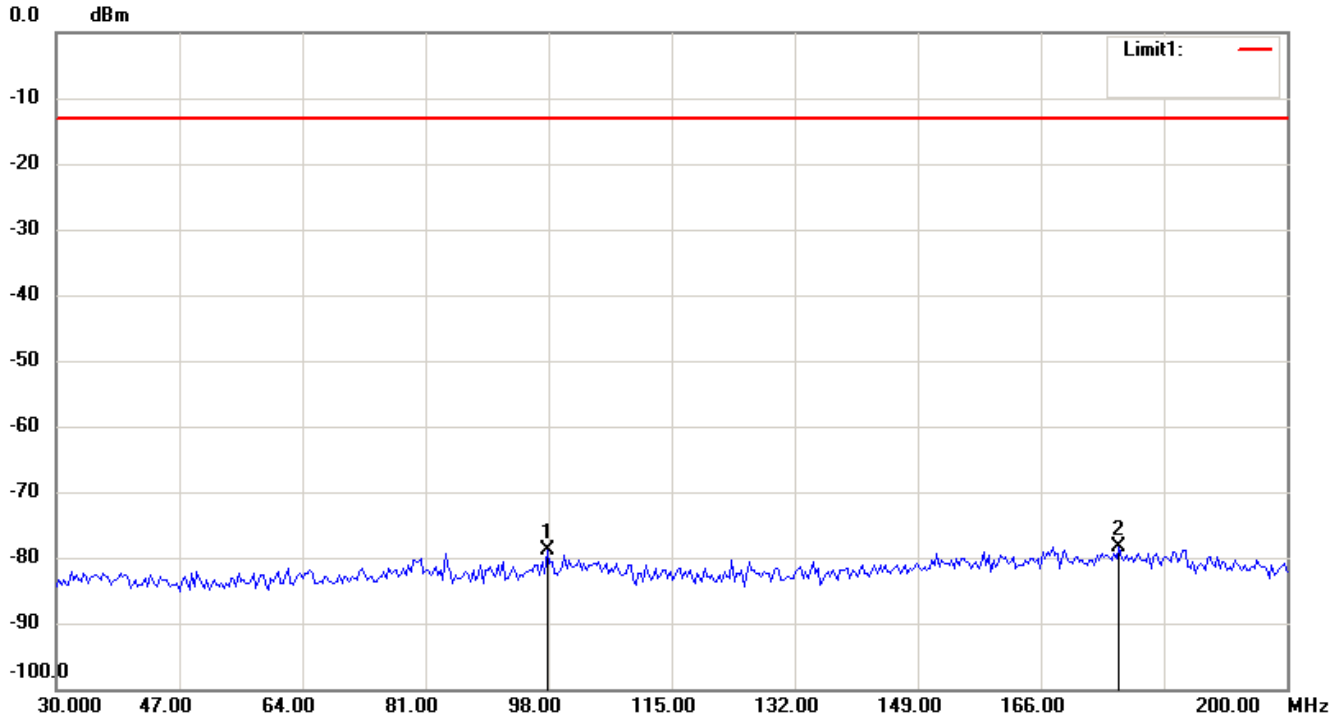
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



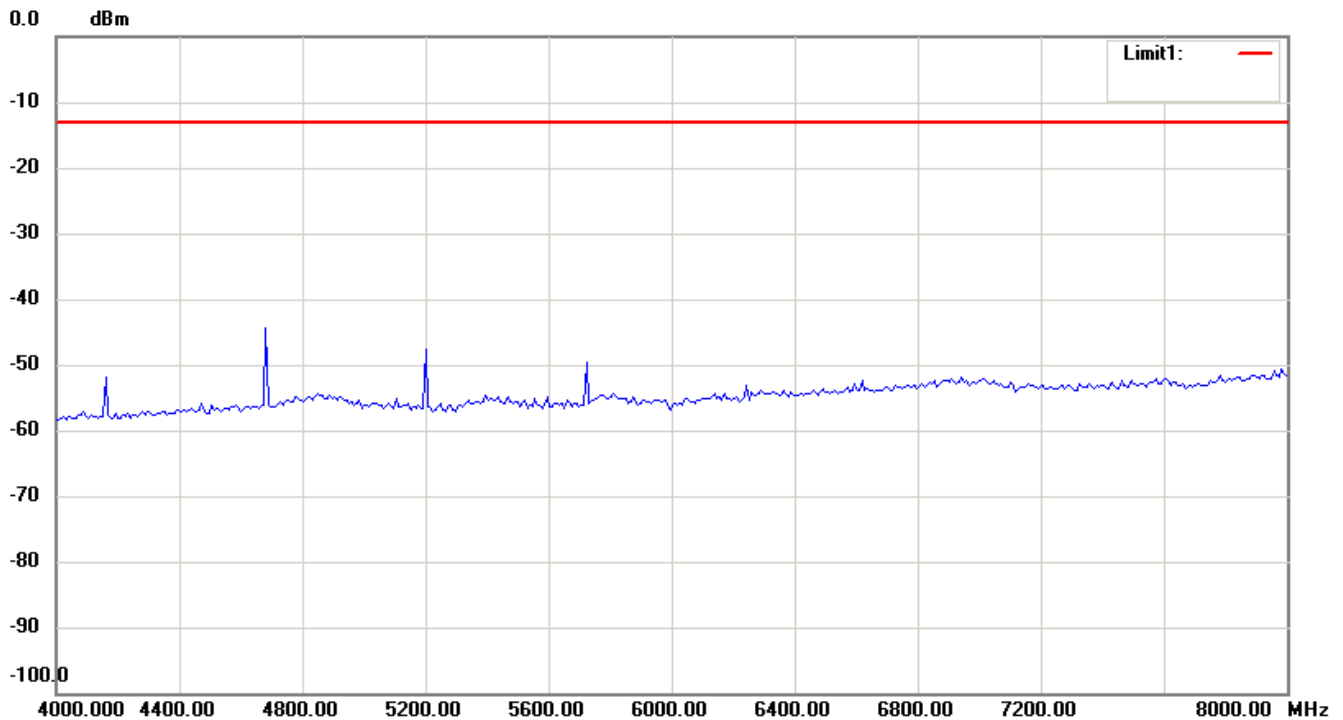
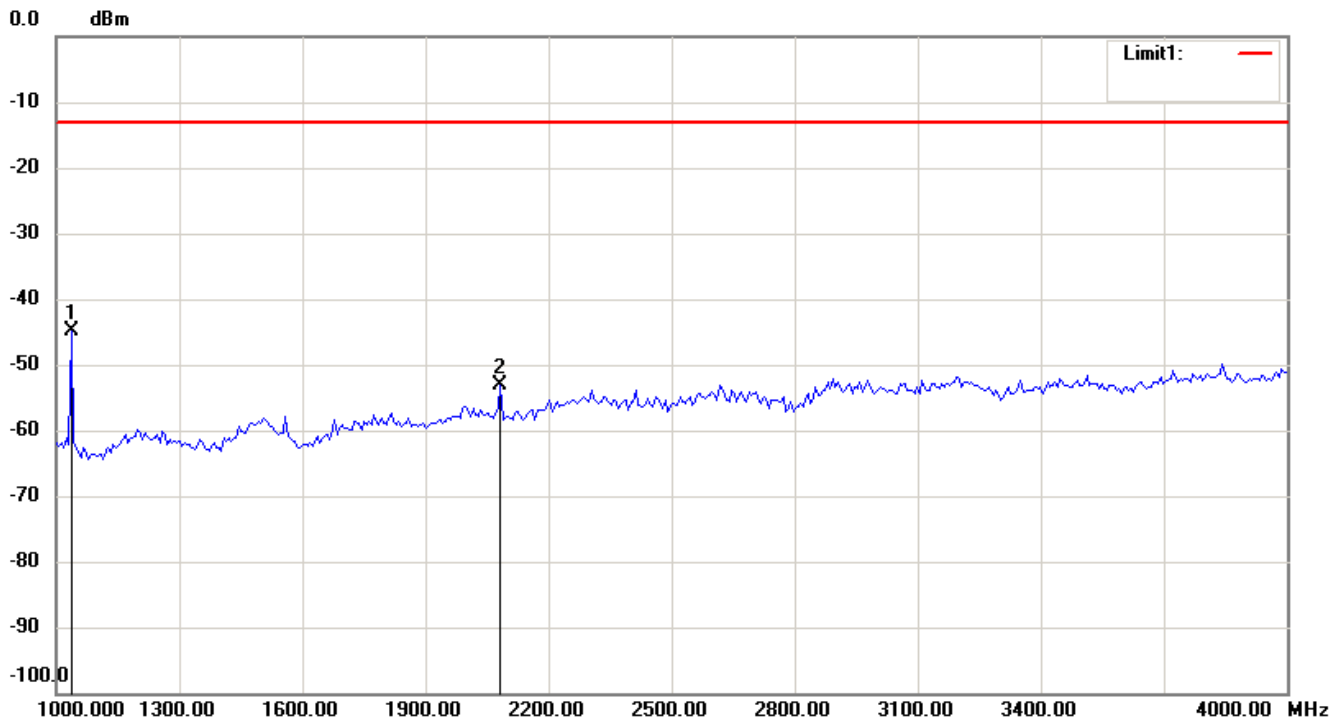
Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

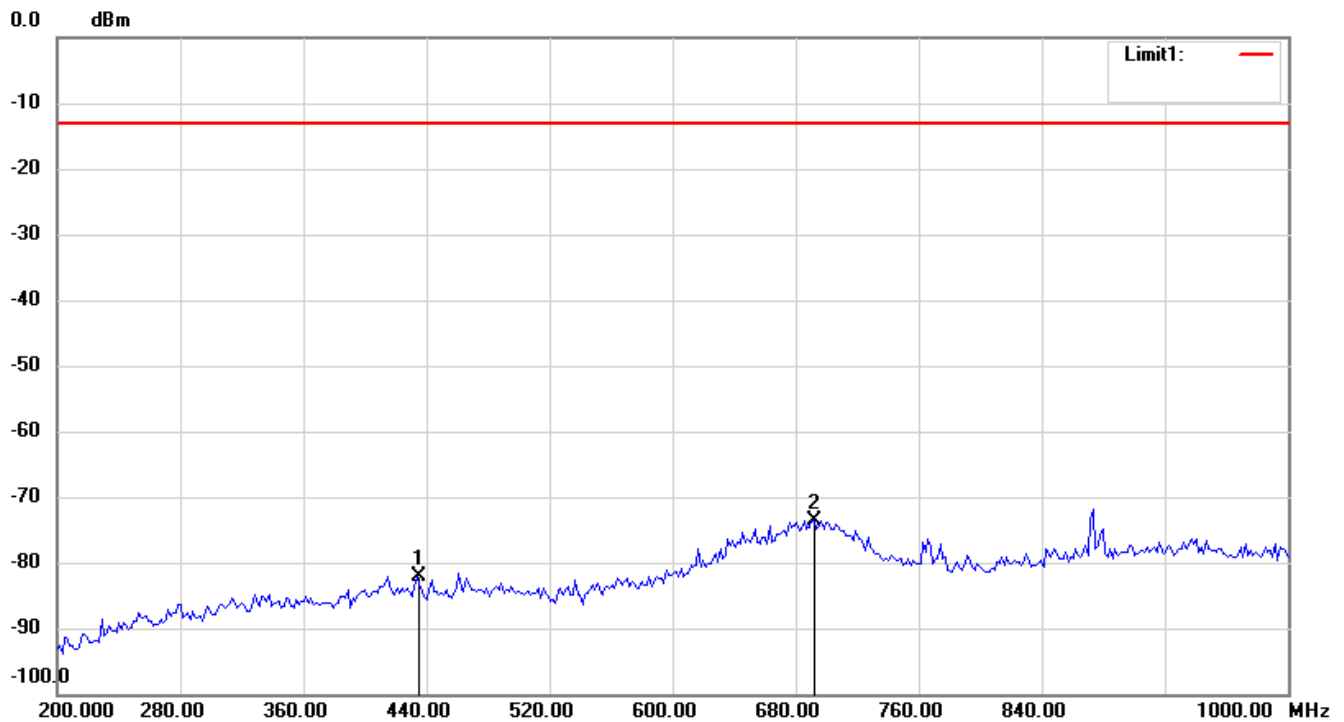
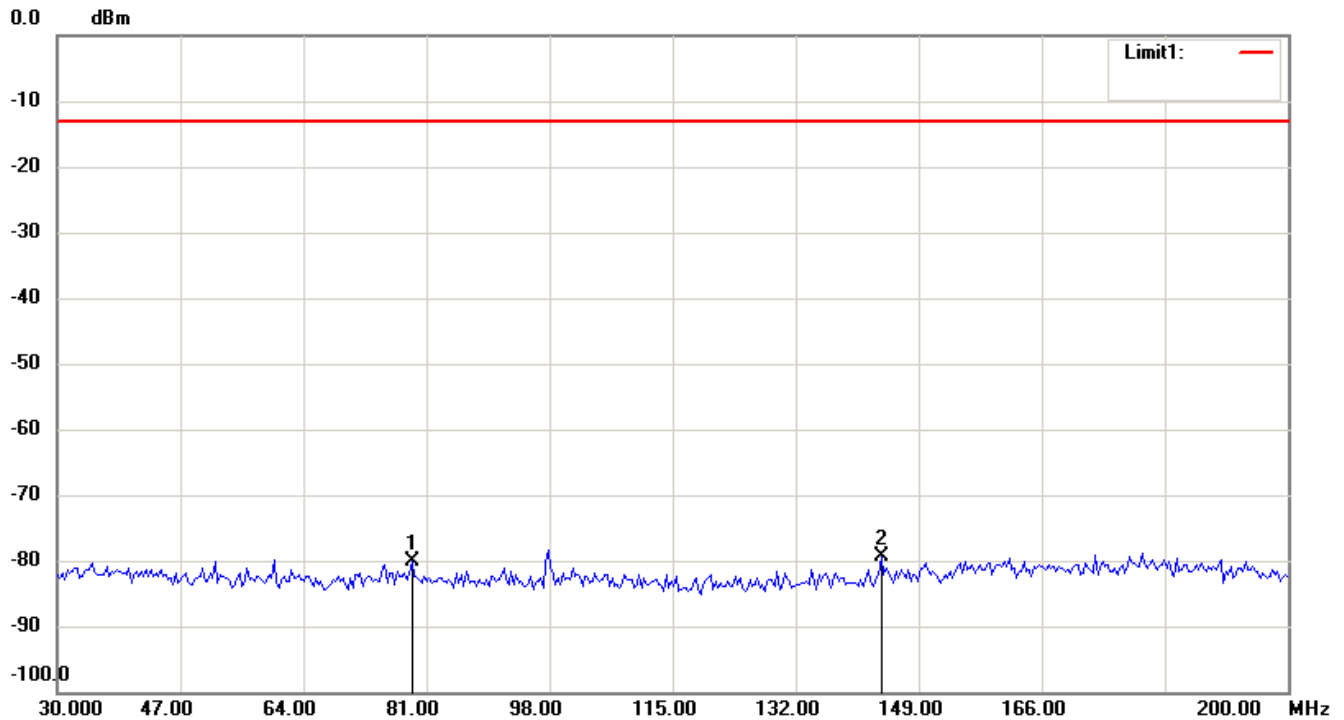


Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

544.125 MHz

Antenna Polarization H



Note:

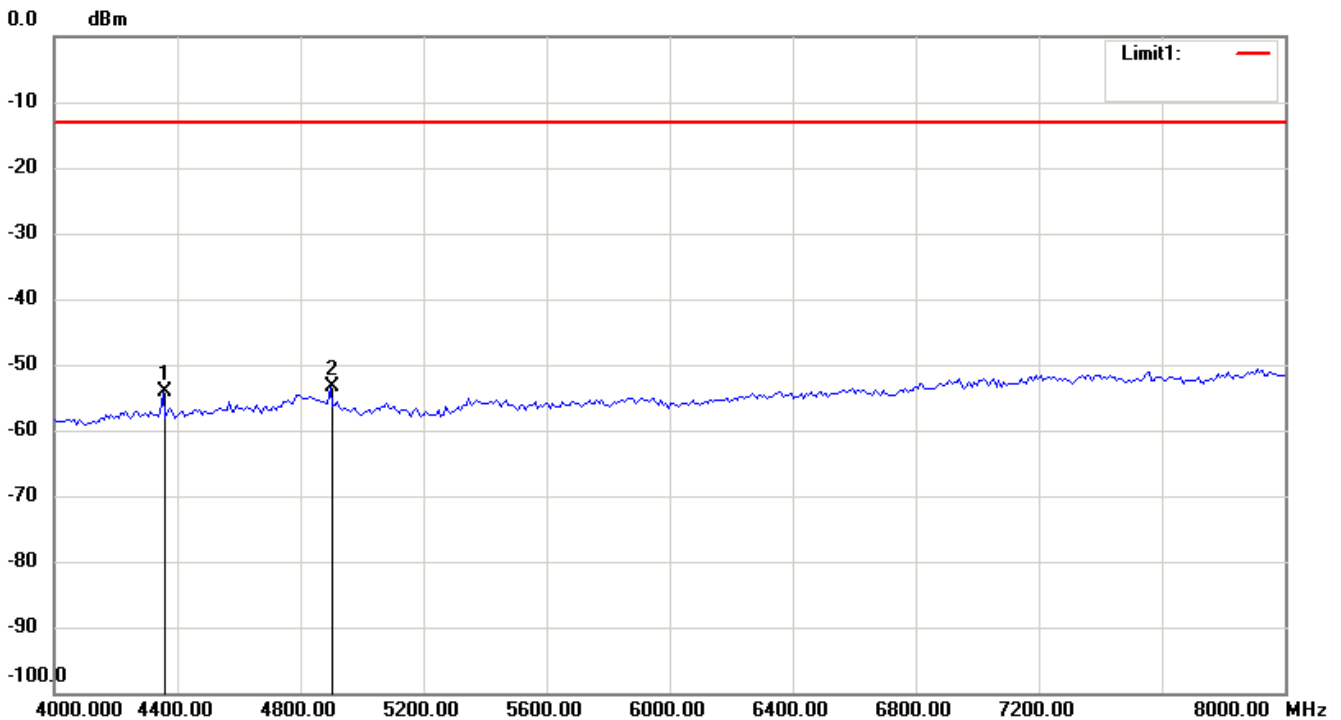
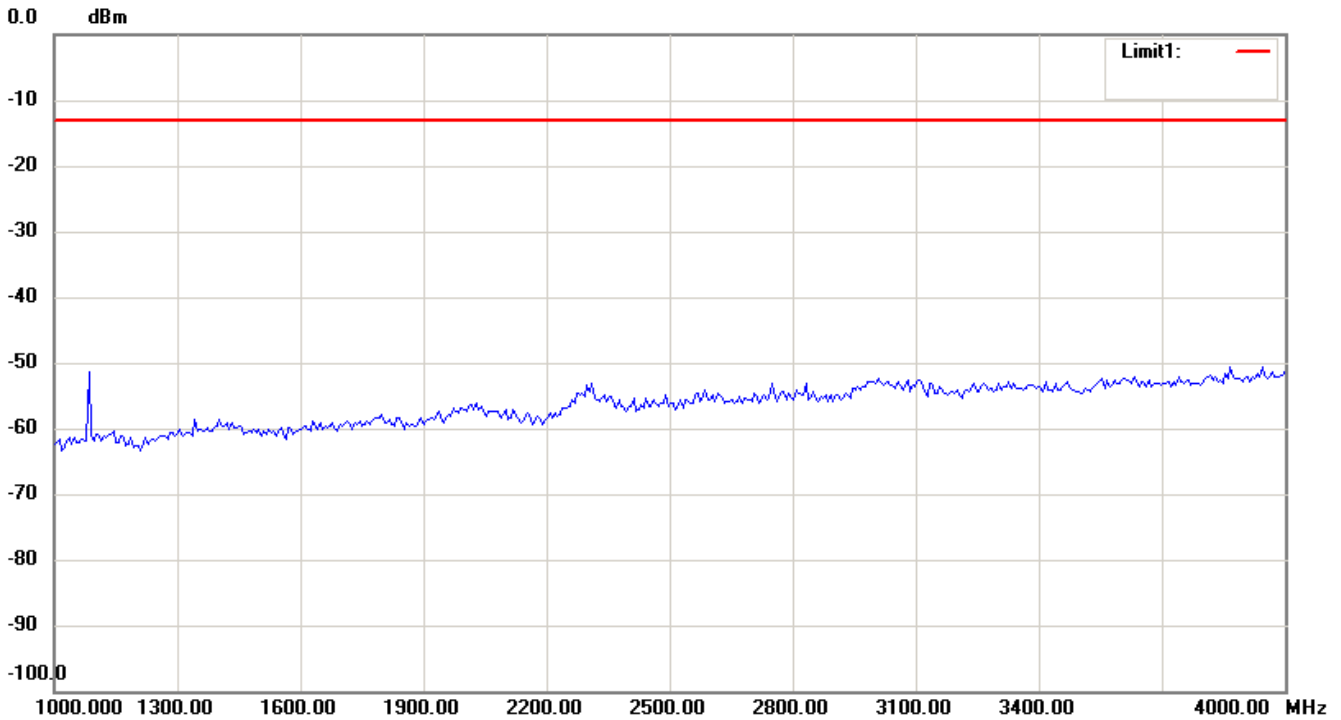
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

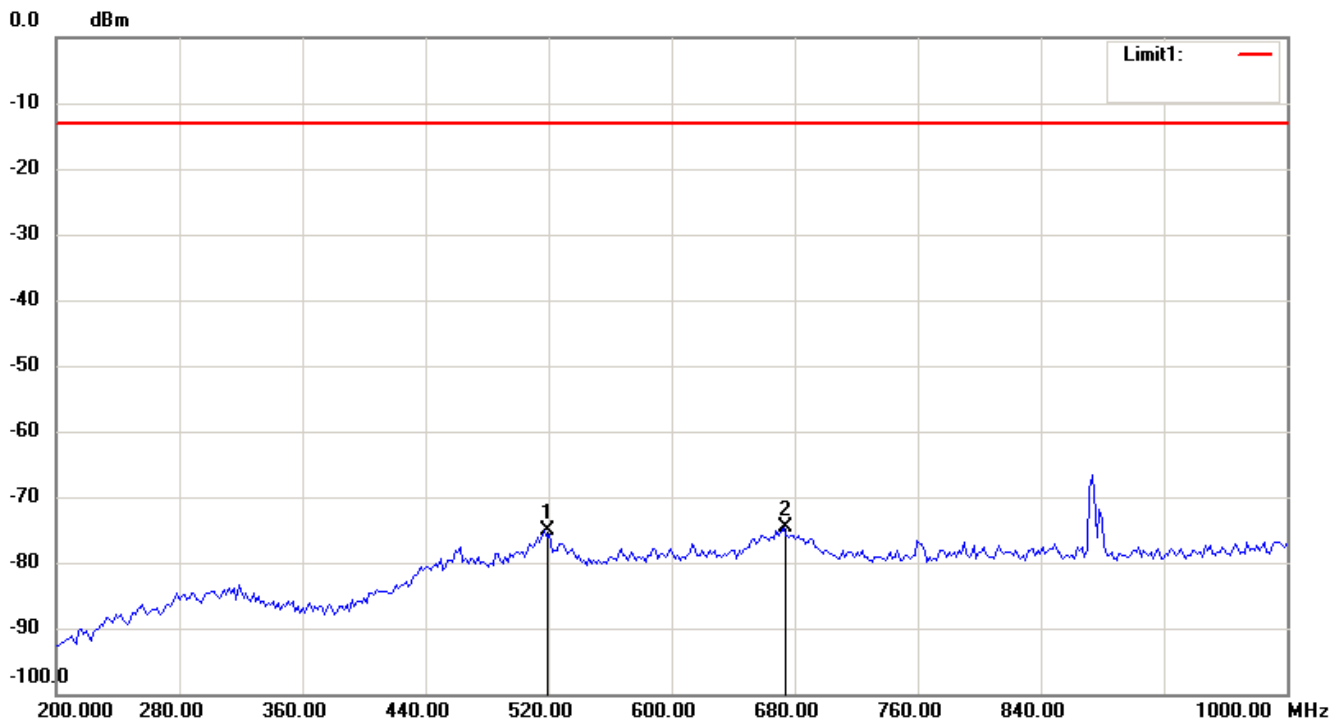
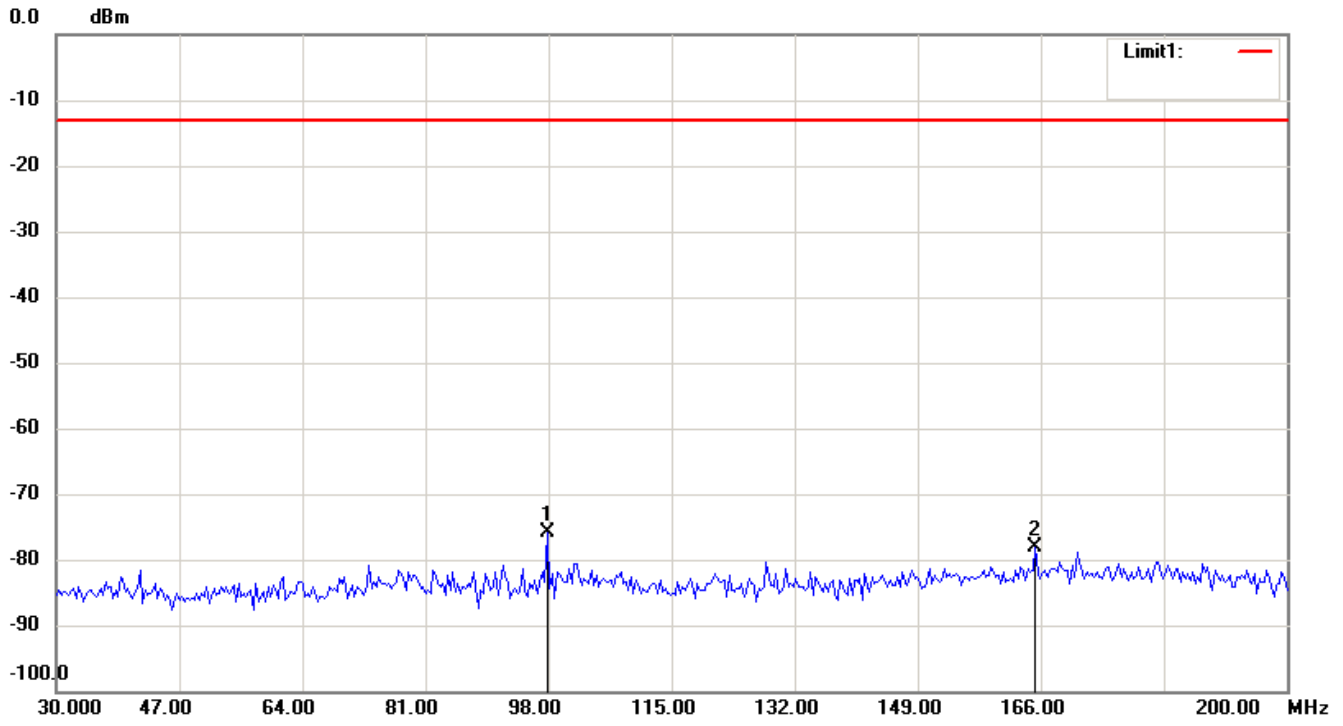
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



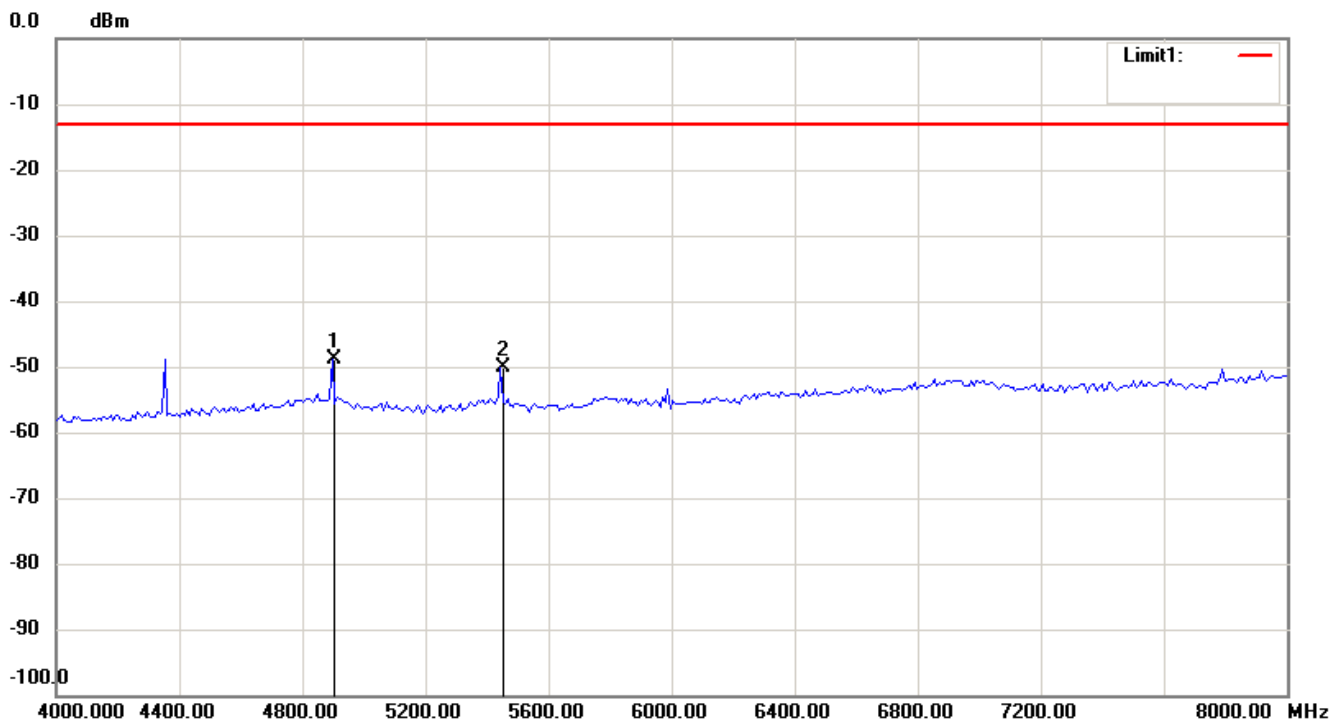
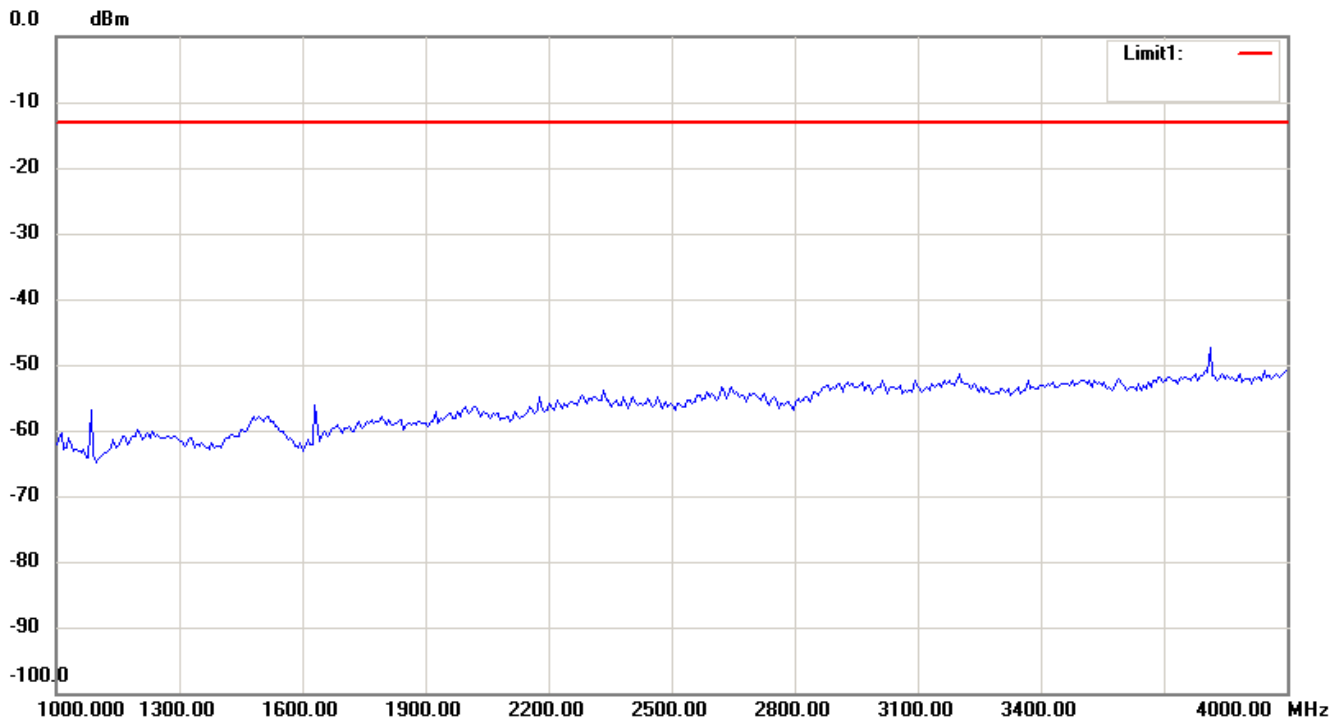
Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

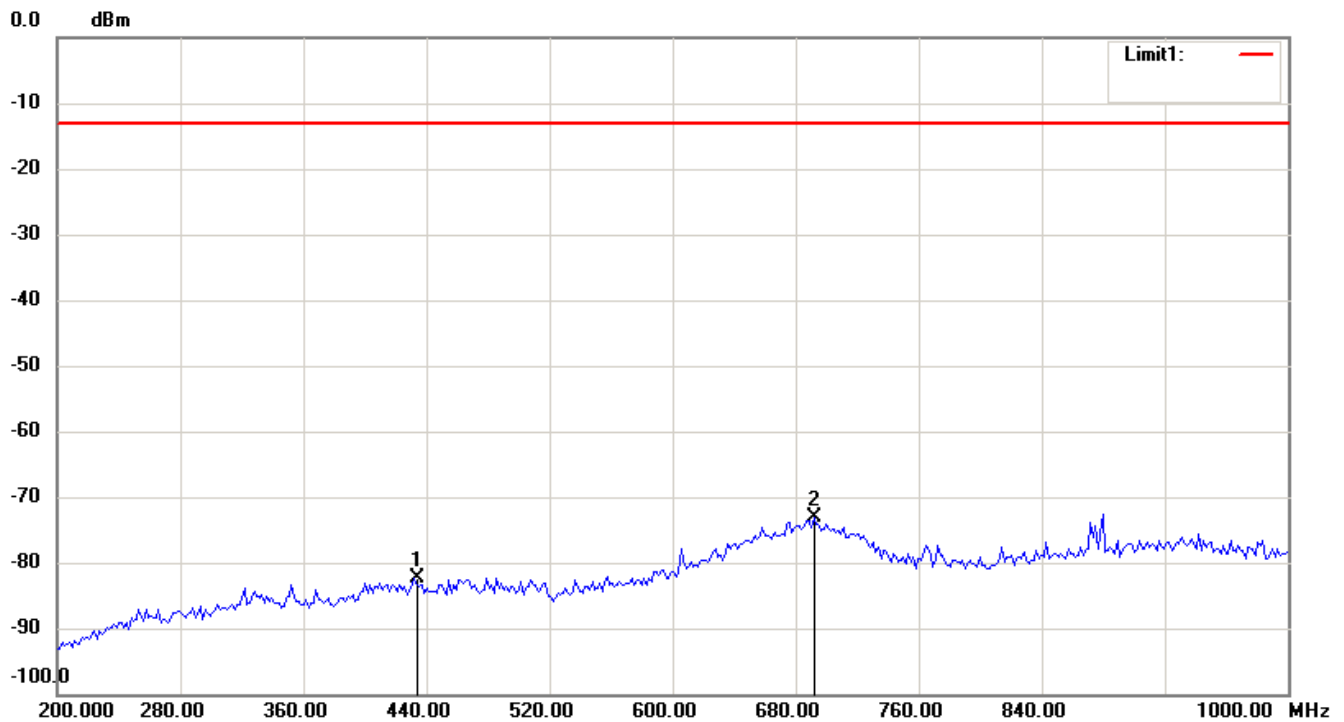
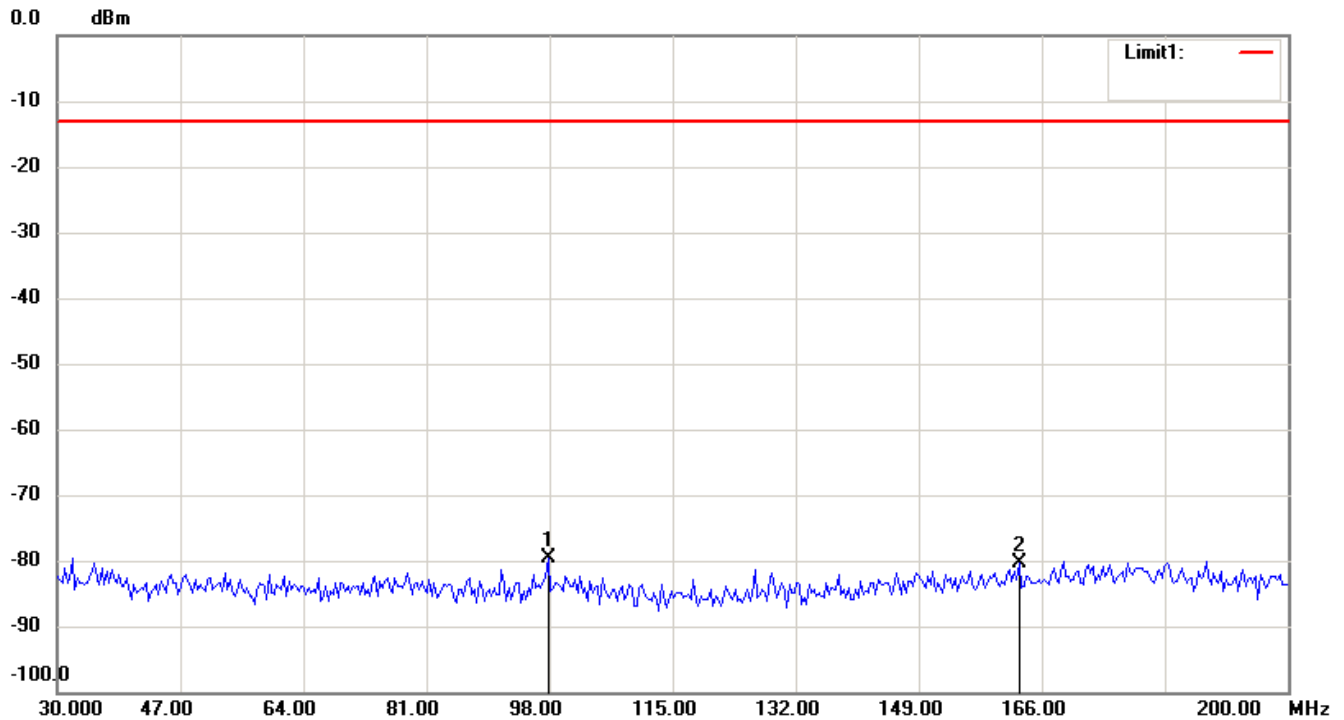


Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

607.225 MHz

Antenna Polarization H



Note:

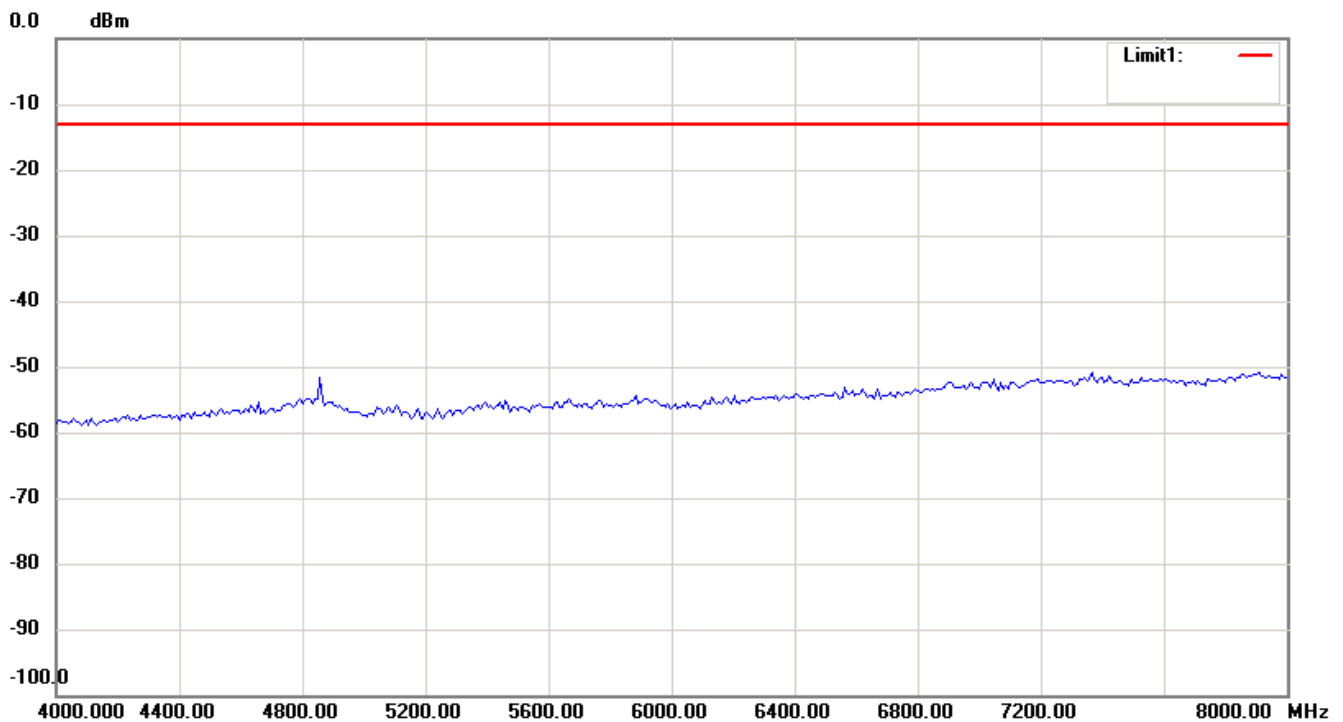
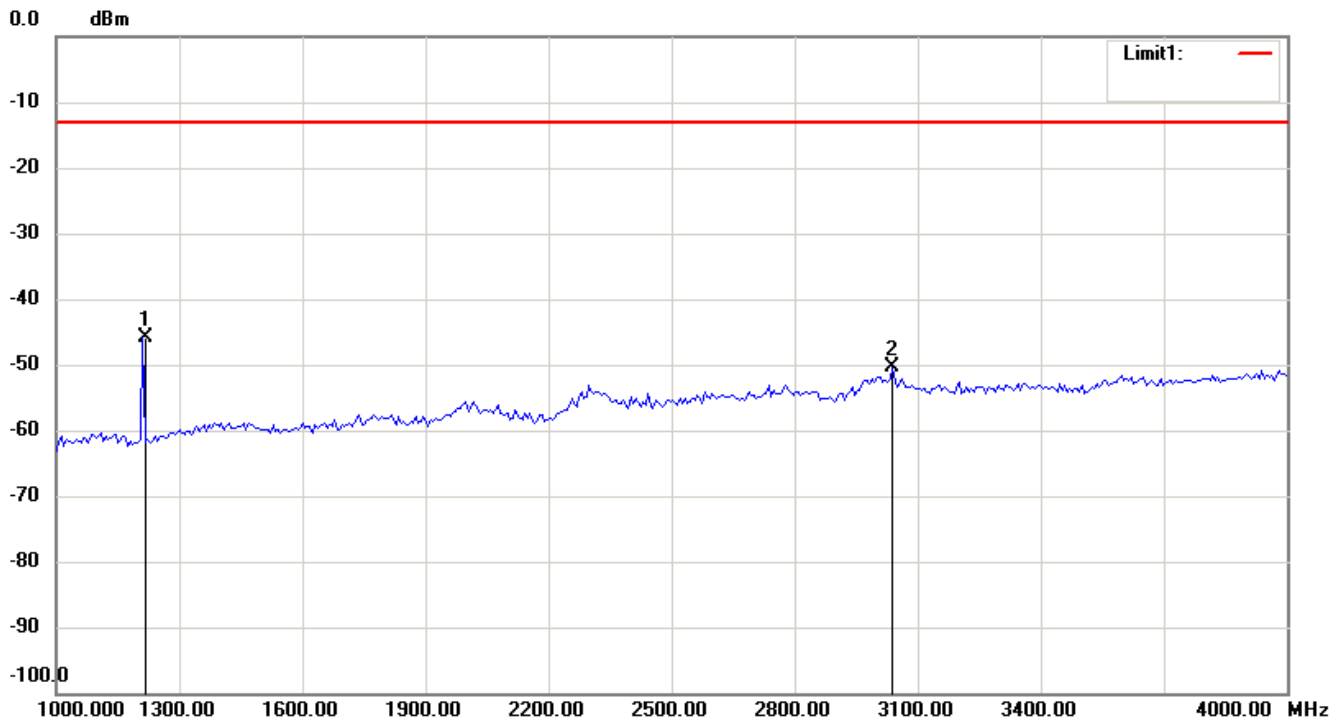
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

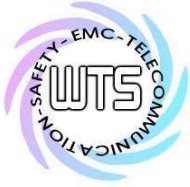
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

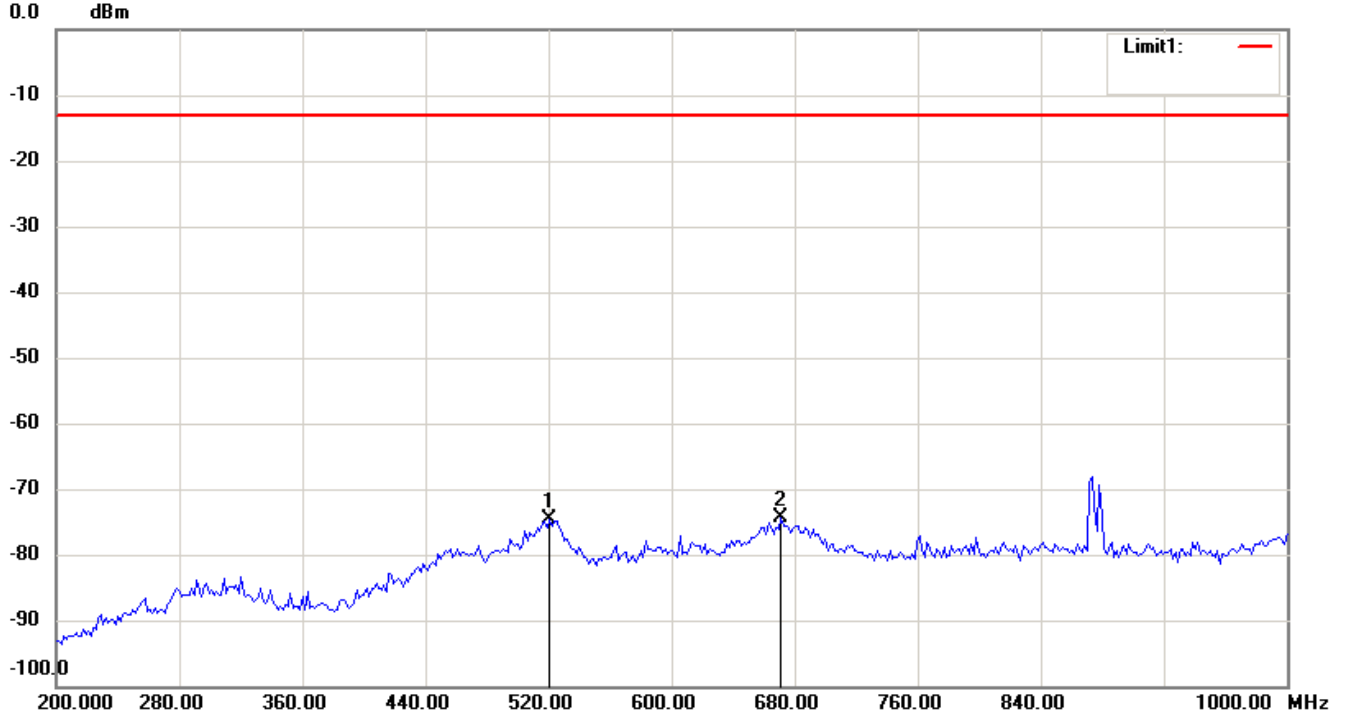
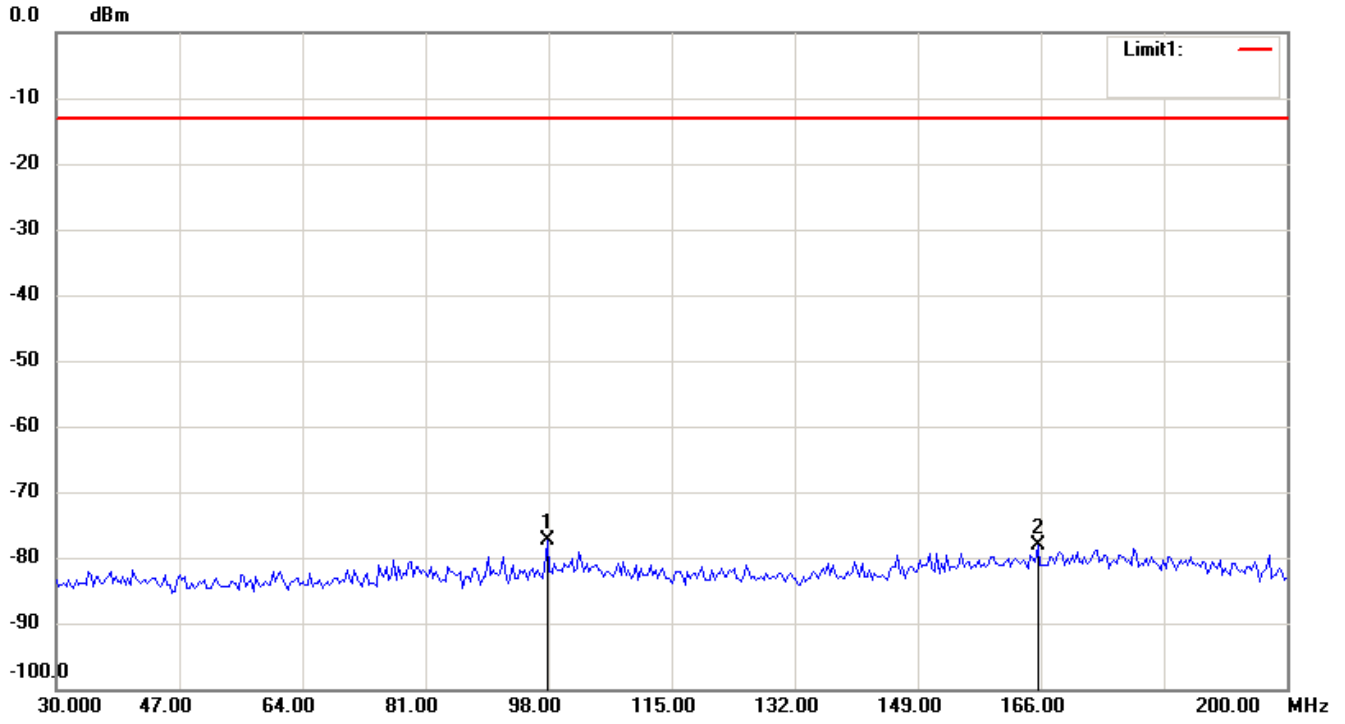
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



Note:

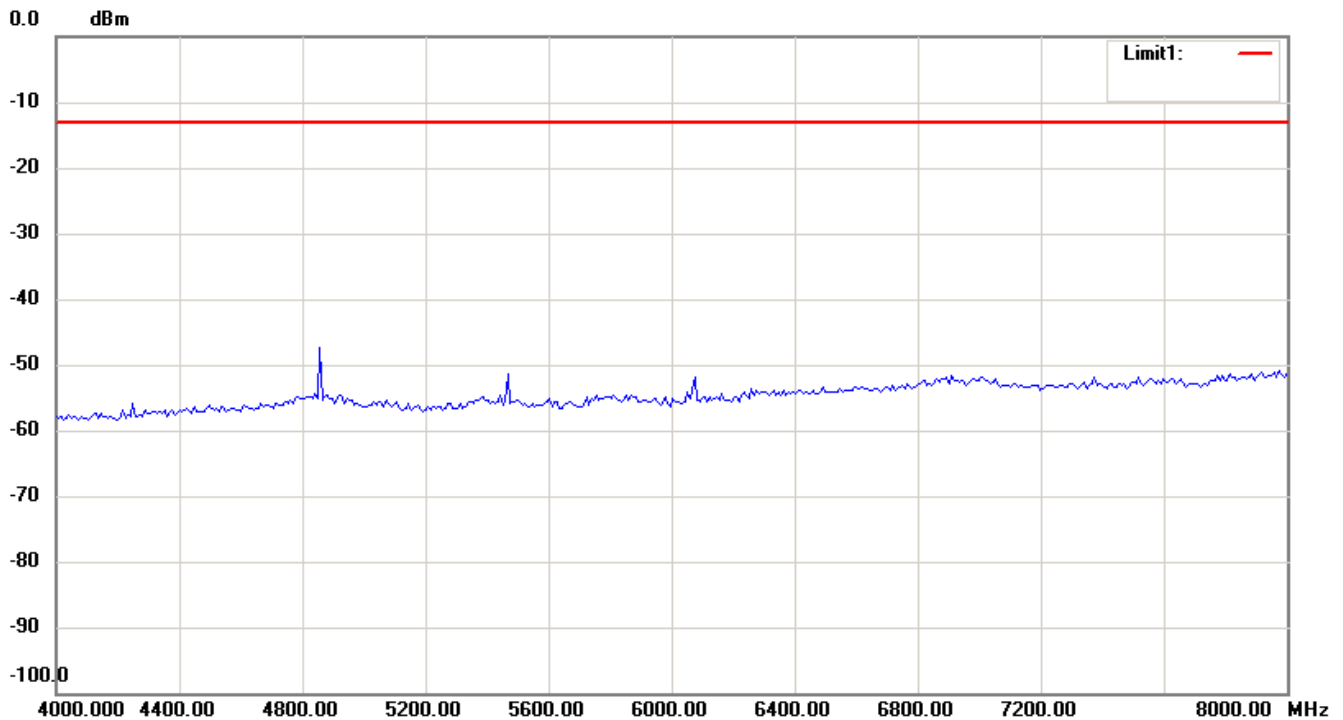
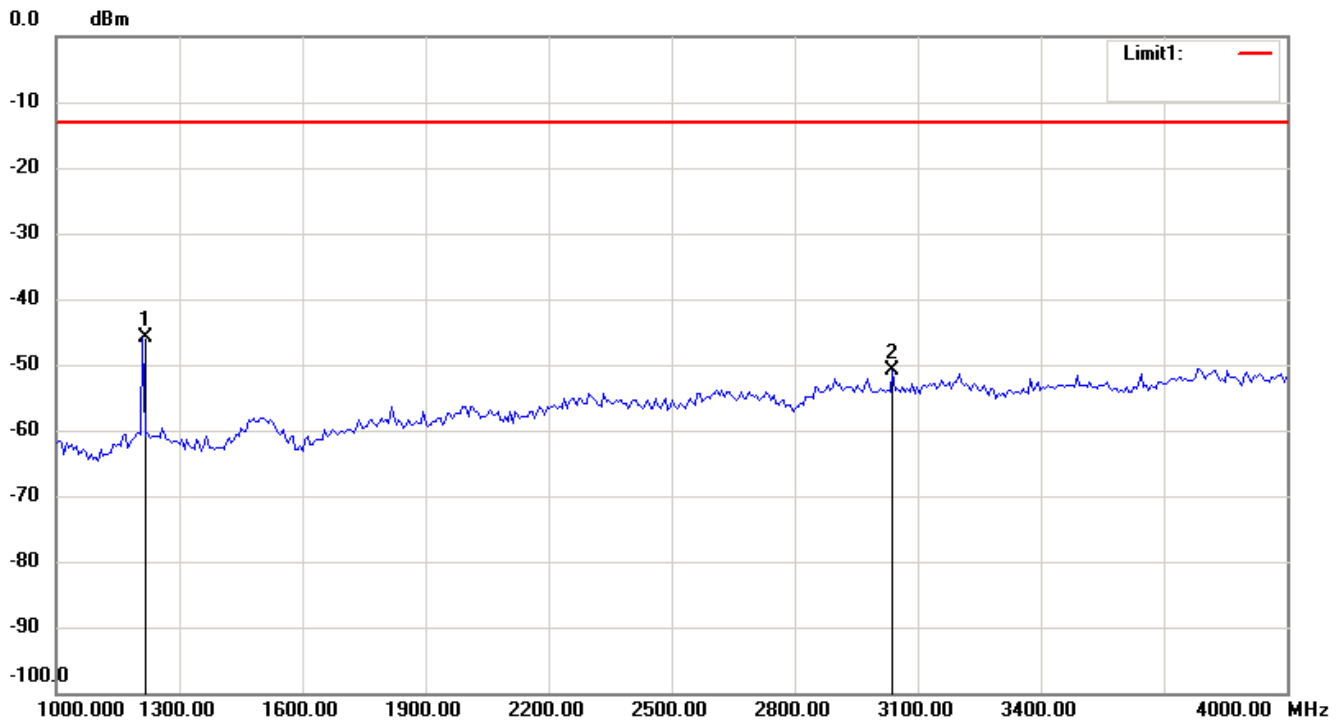
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

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2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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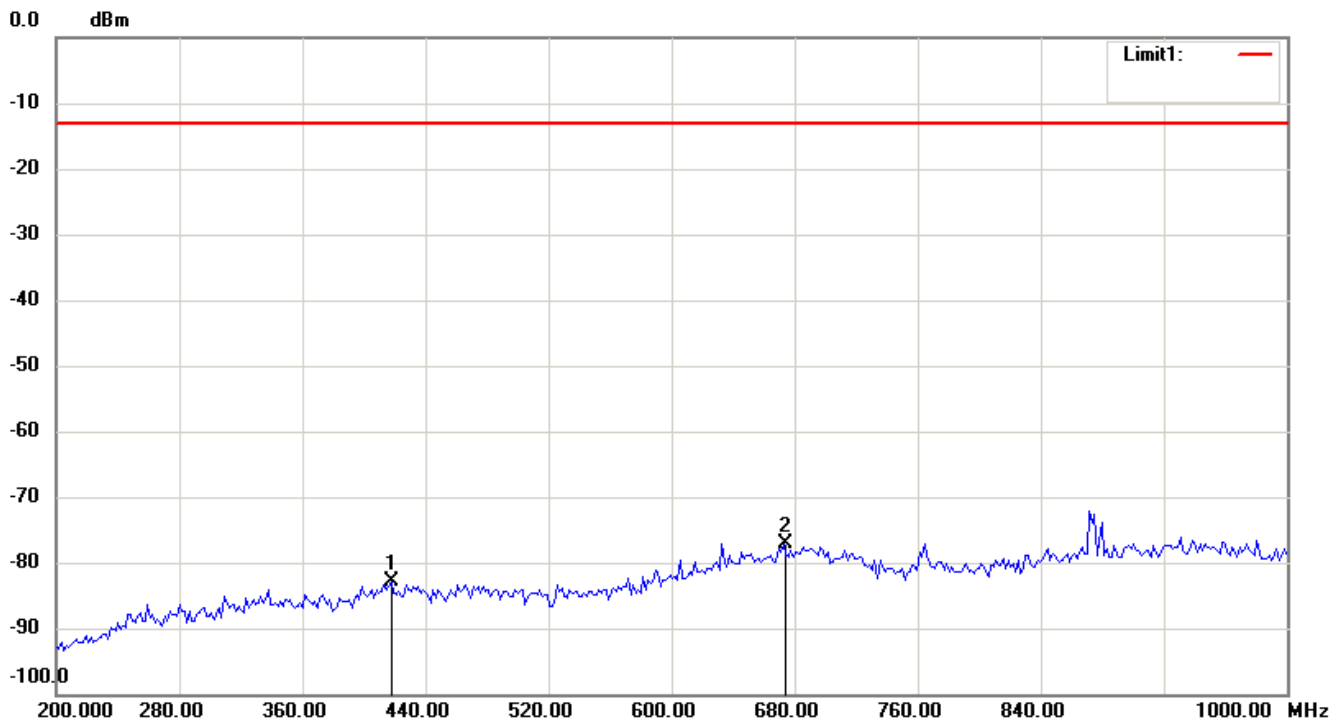
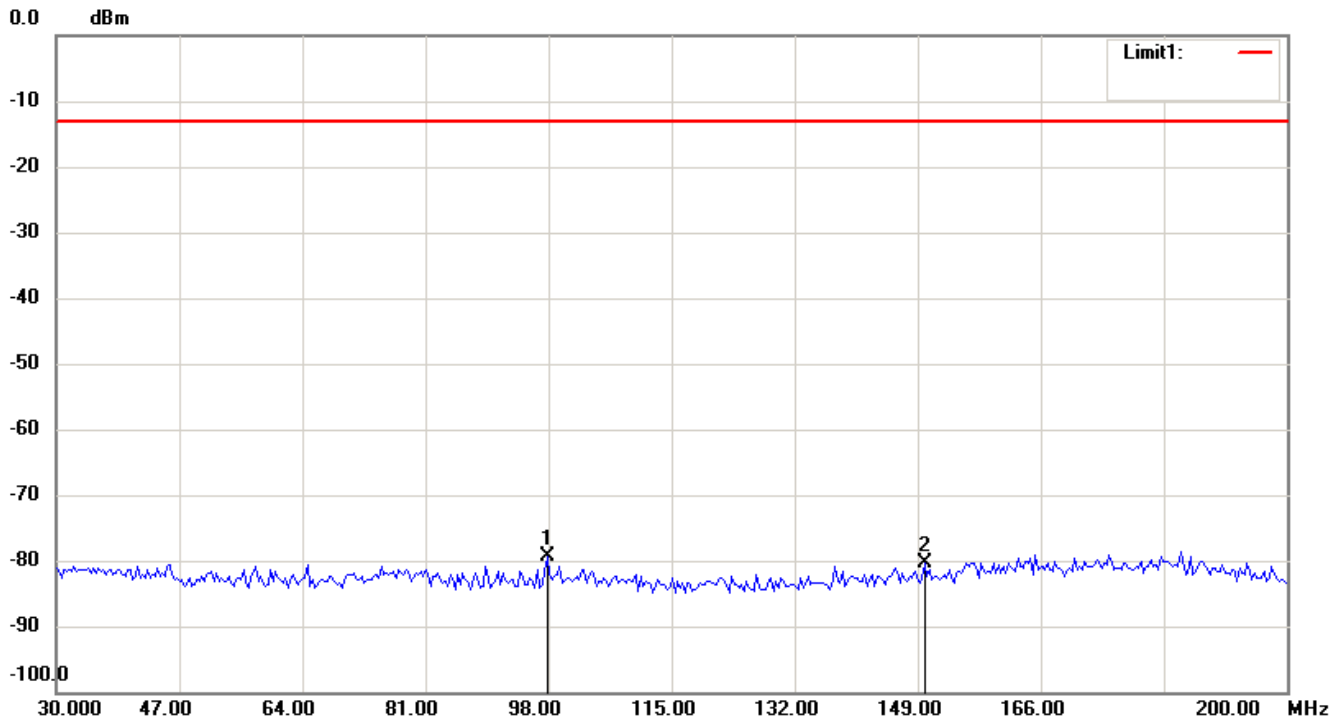


Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

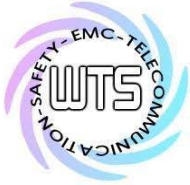
615.025 MHz

Antenna Polarization H



Note:

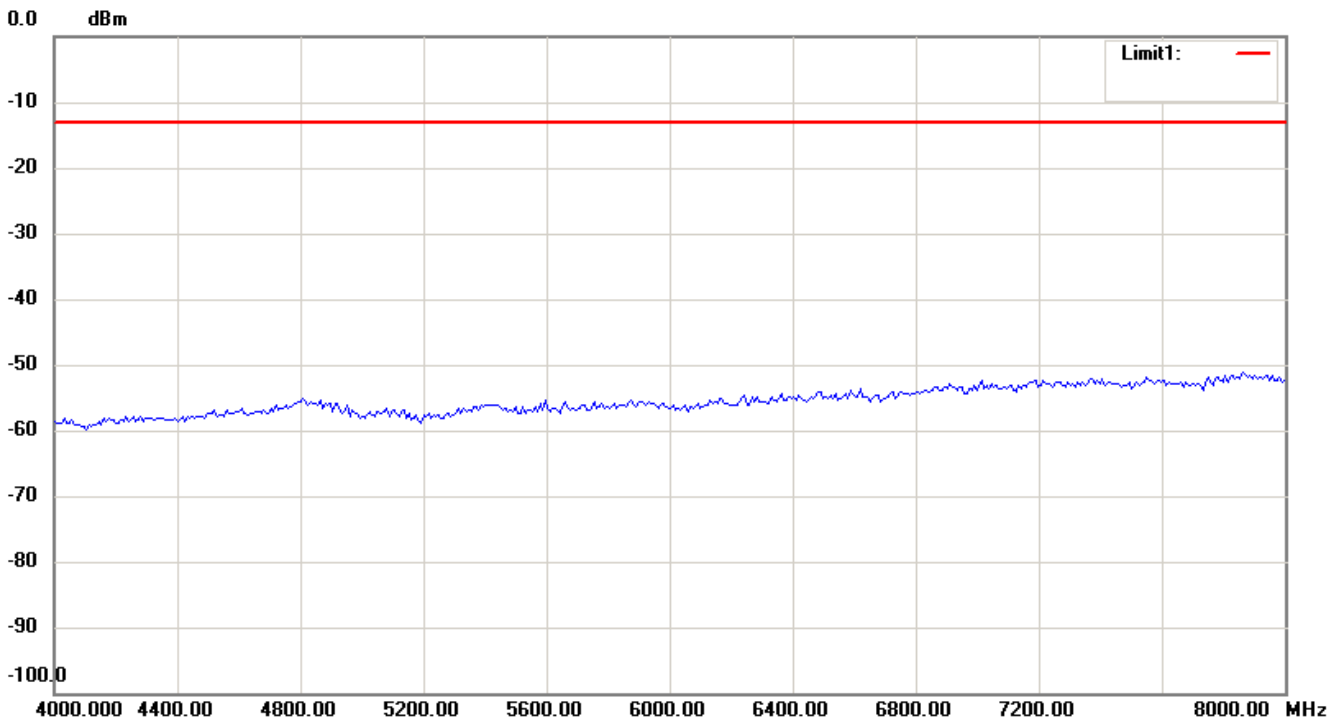
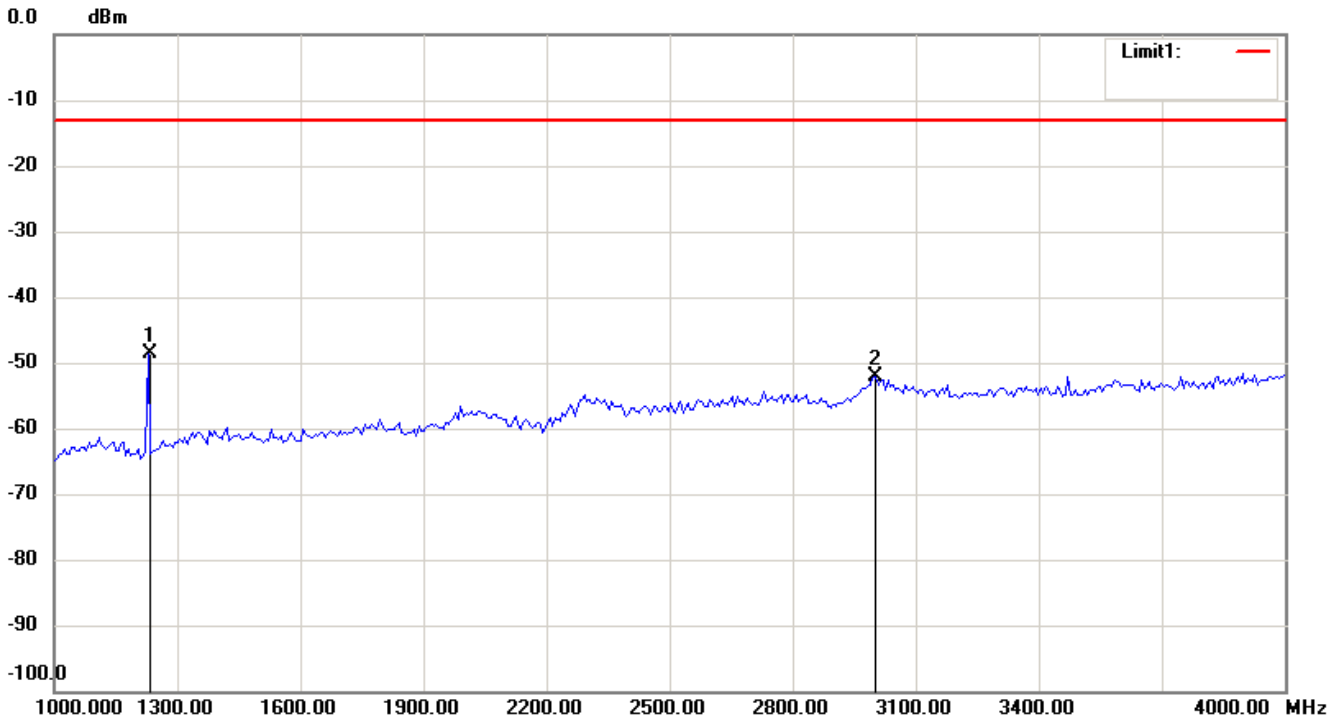
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

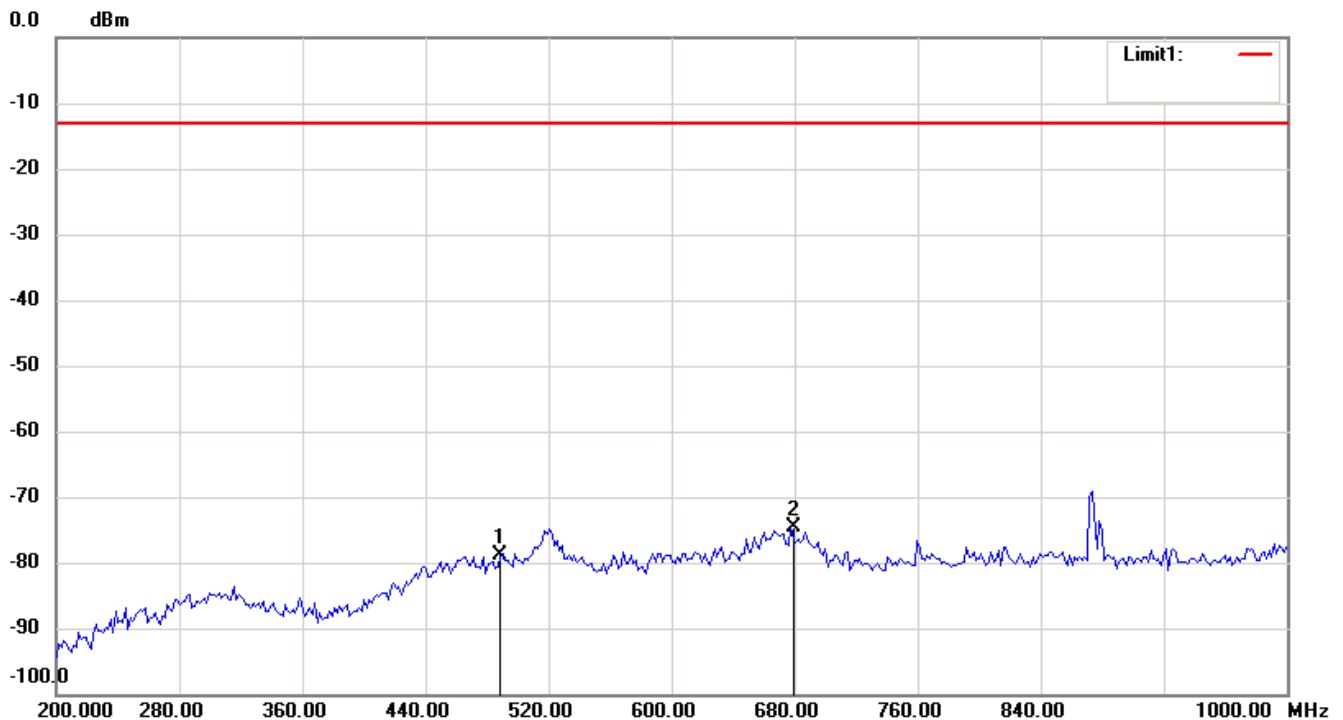
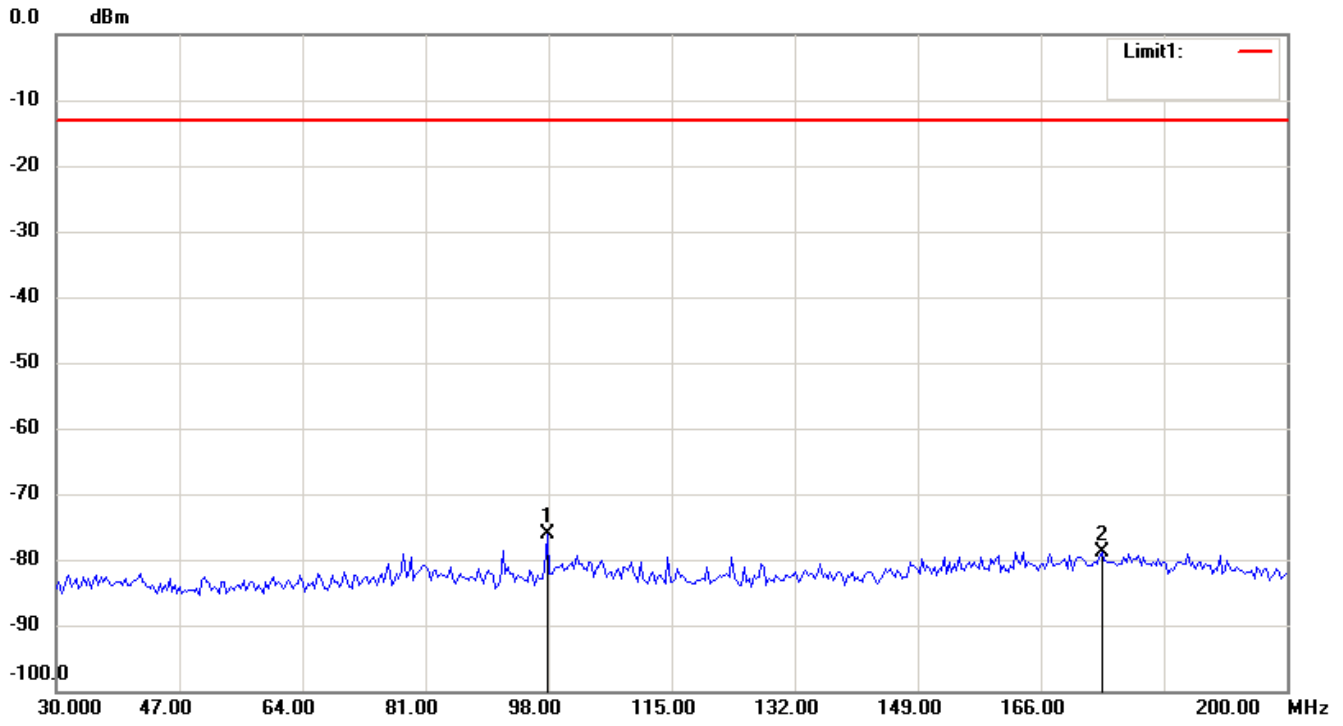
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



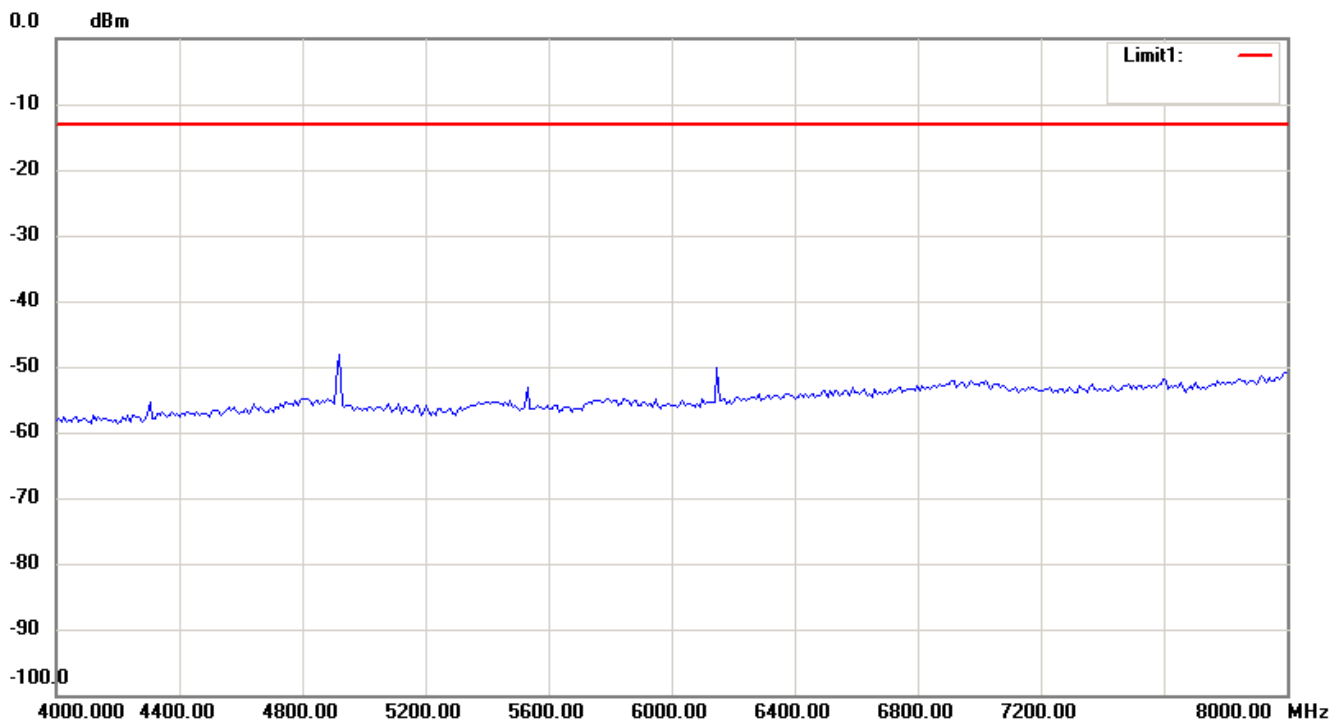
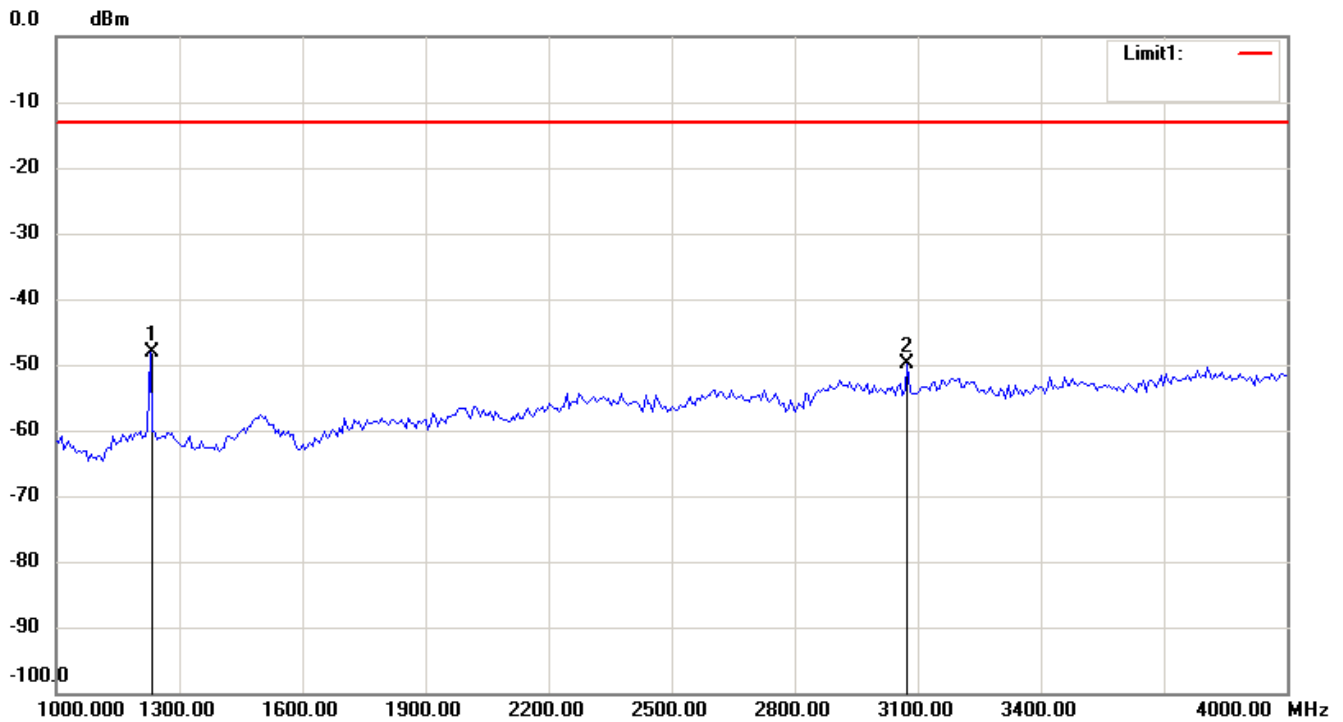
Note:

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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

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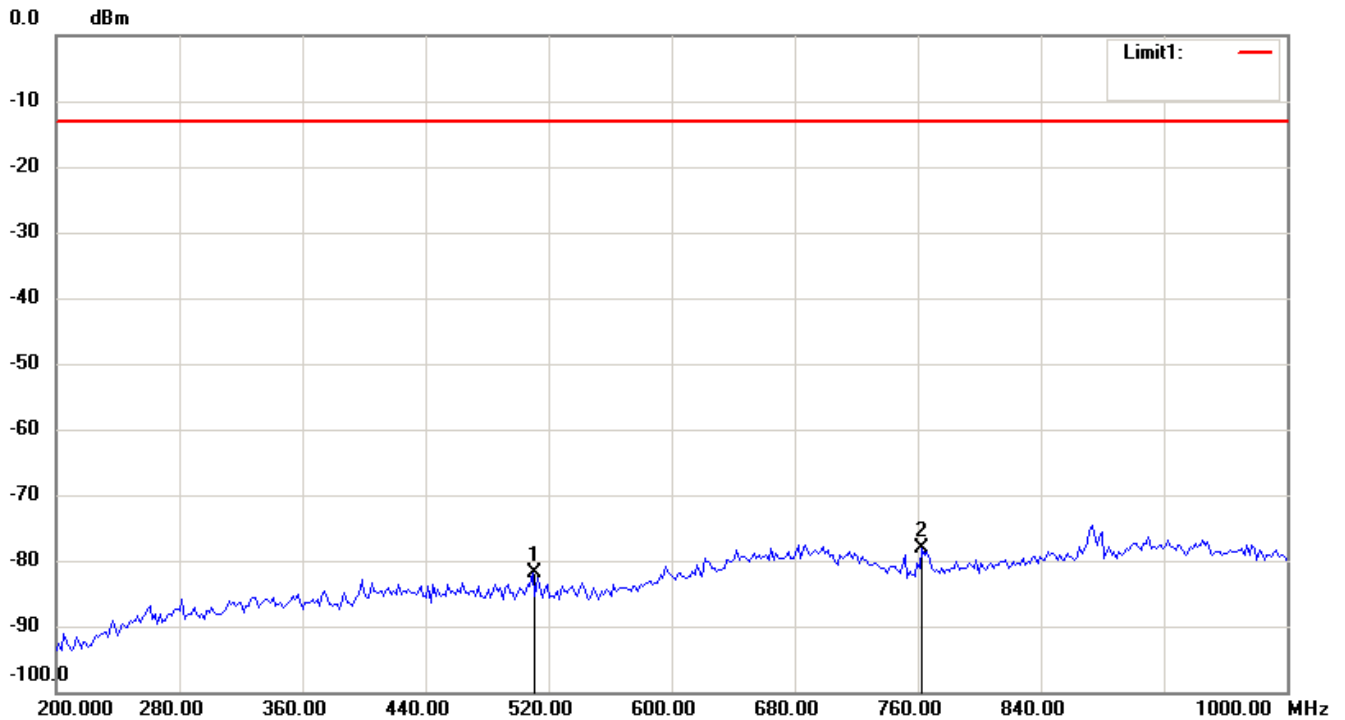
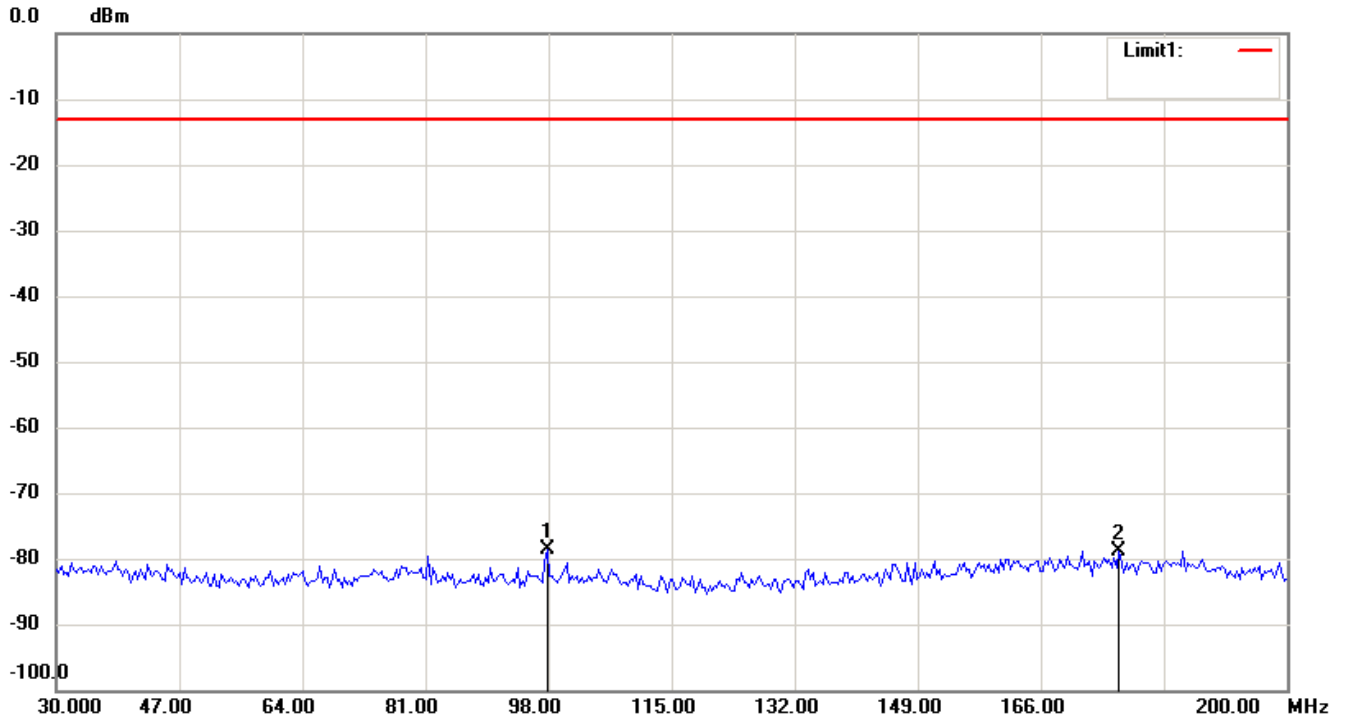


Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

629.825 MHz

Antenna Polarization H



Note:

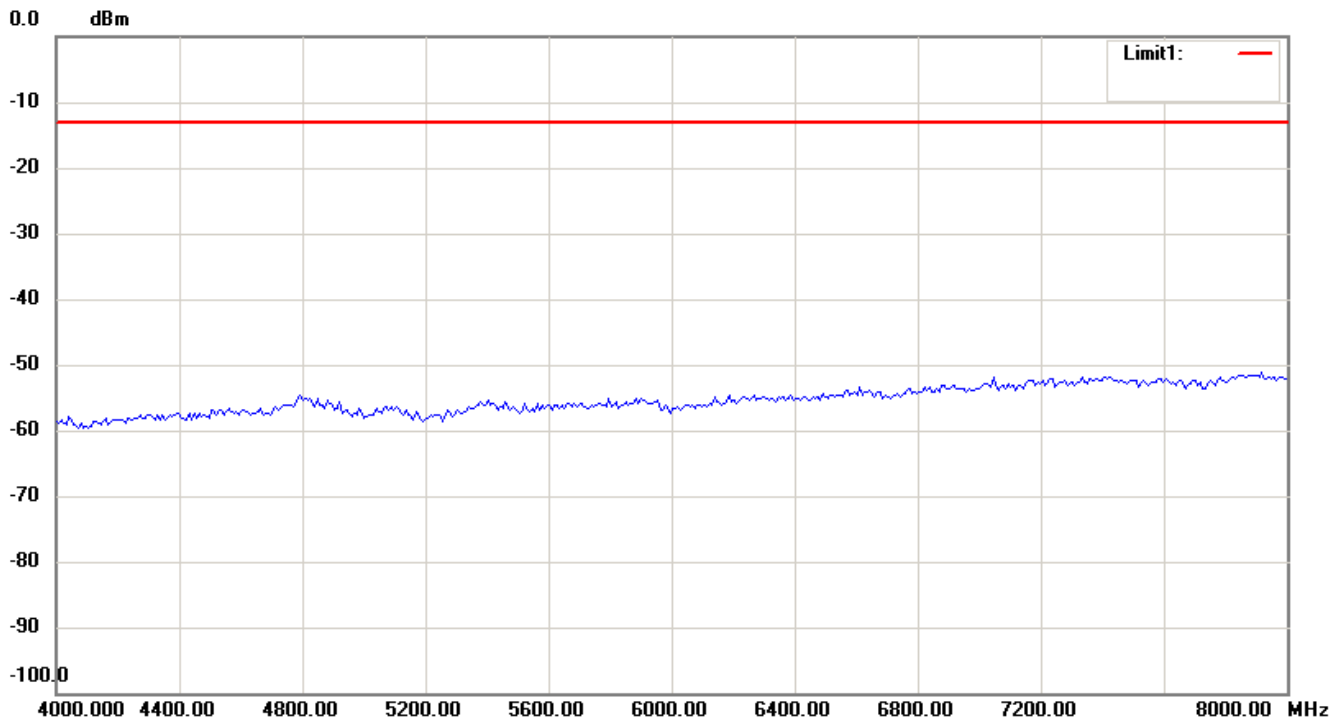
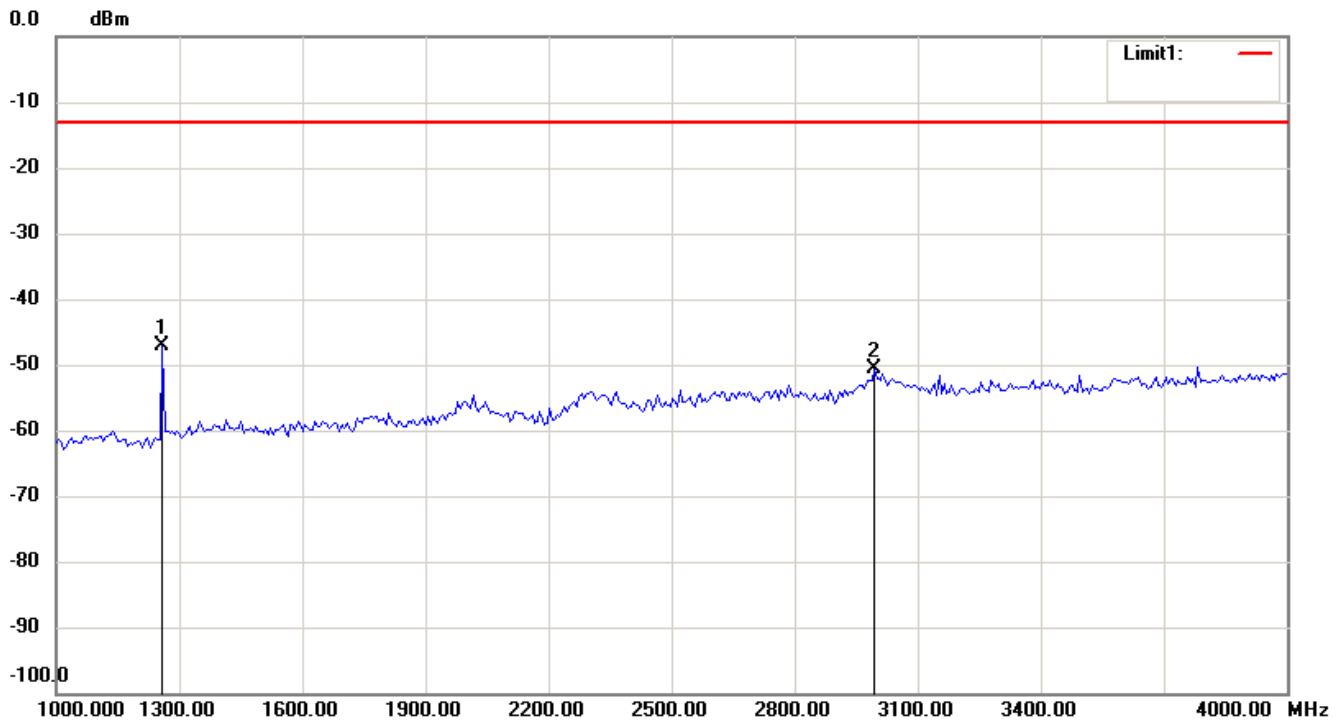
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

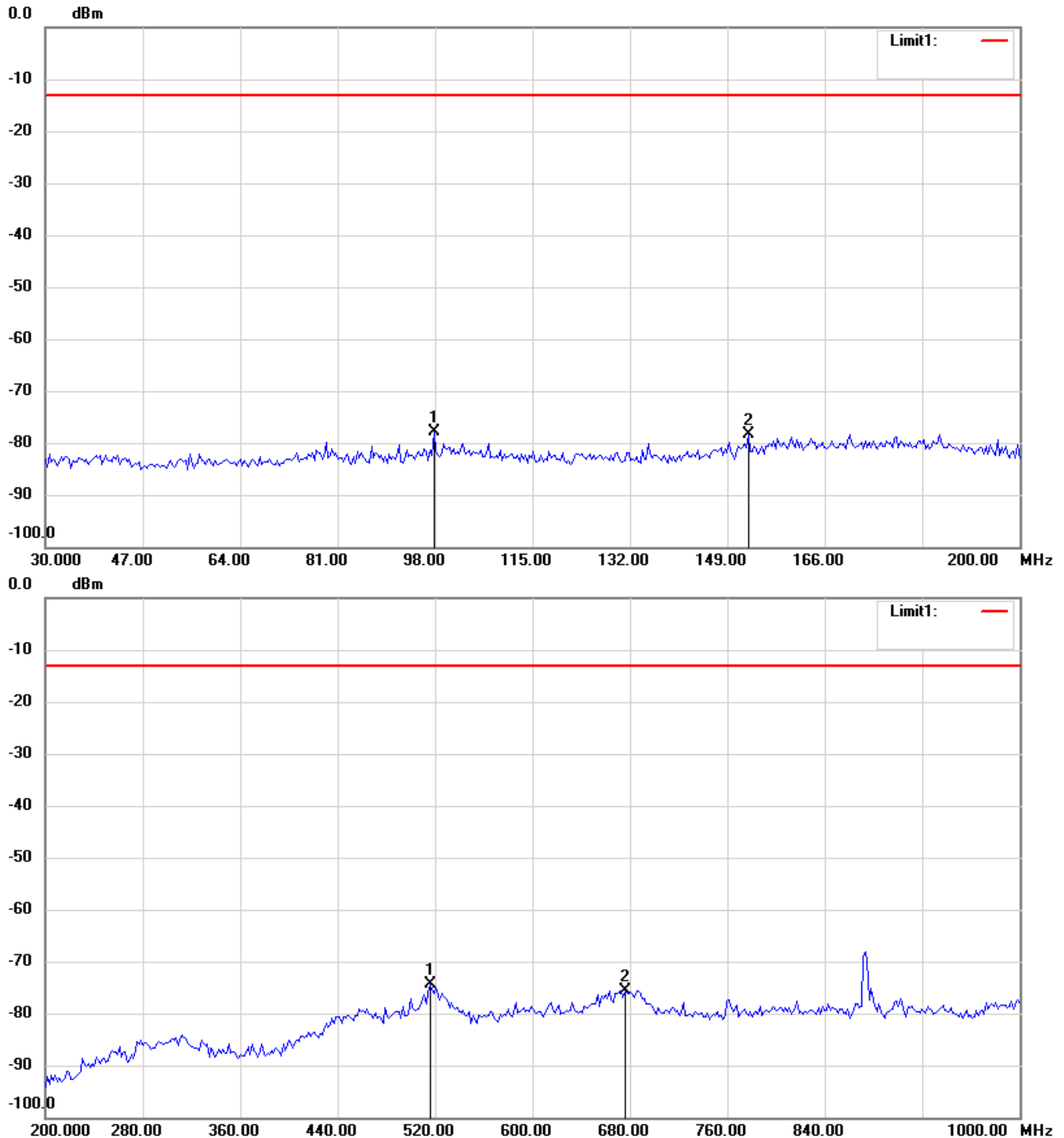
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



Note:

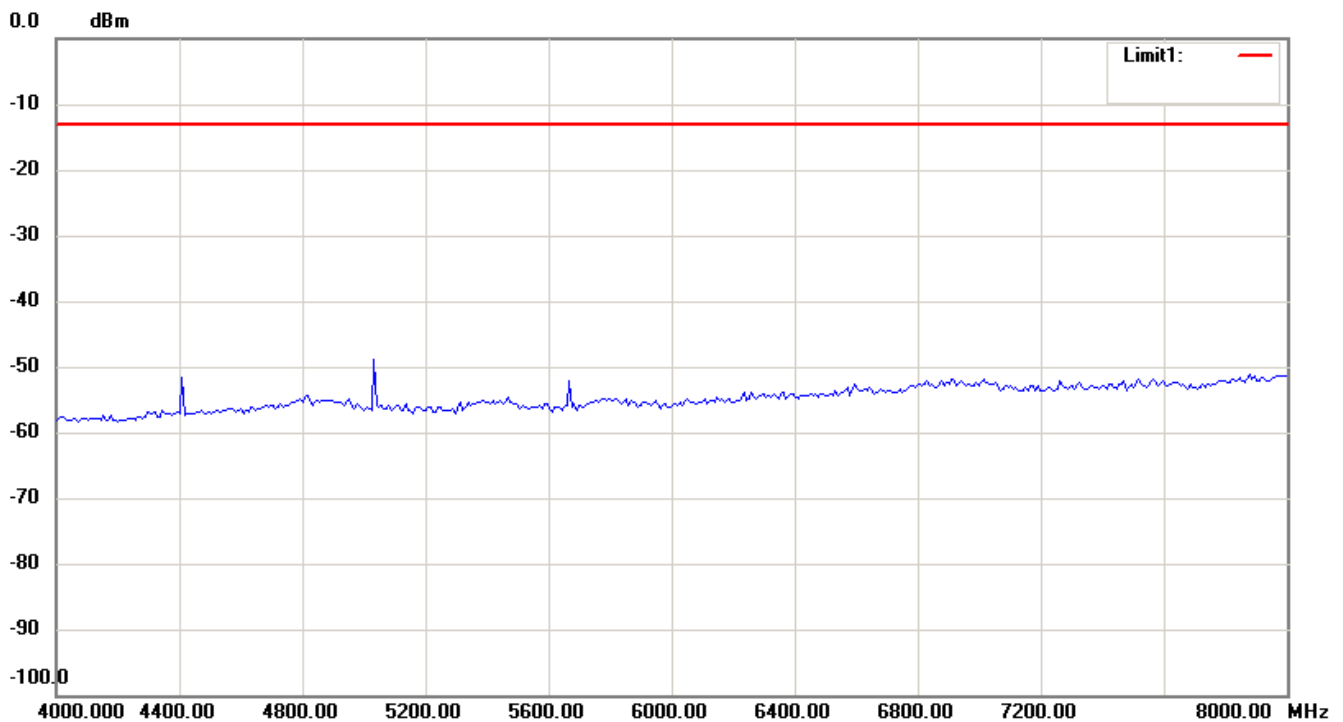
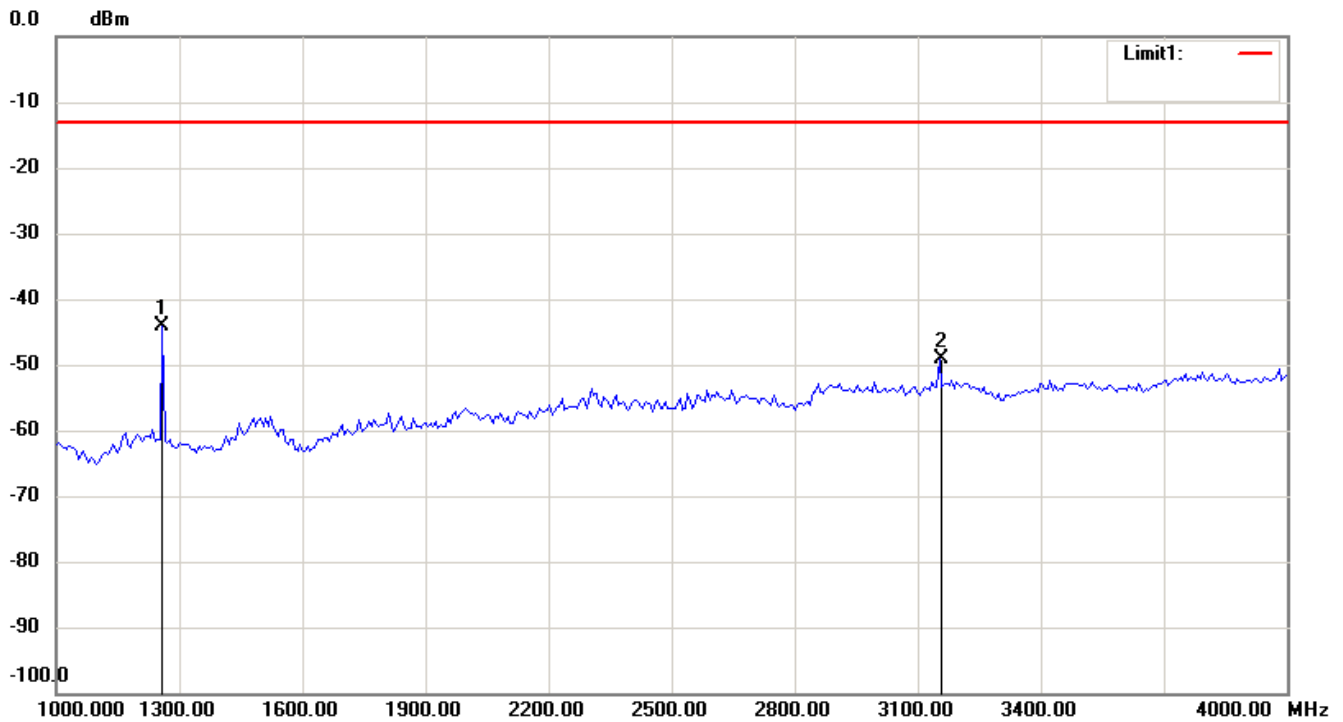
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

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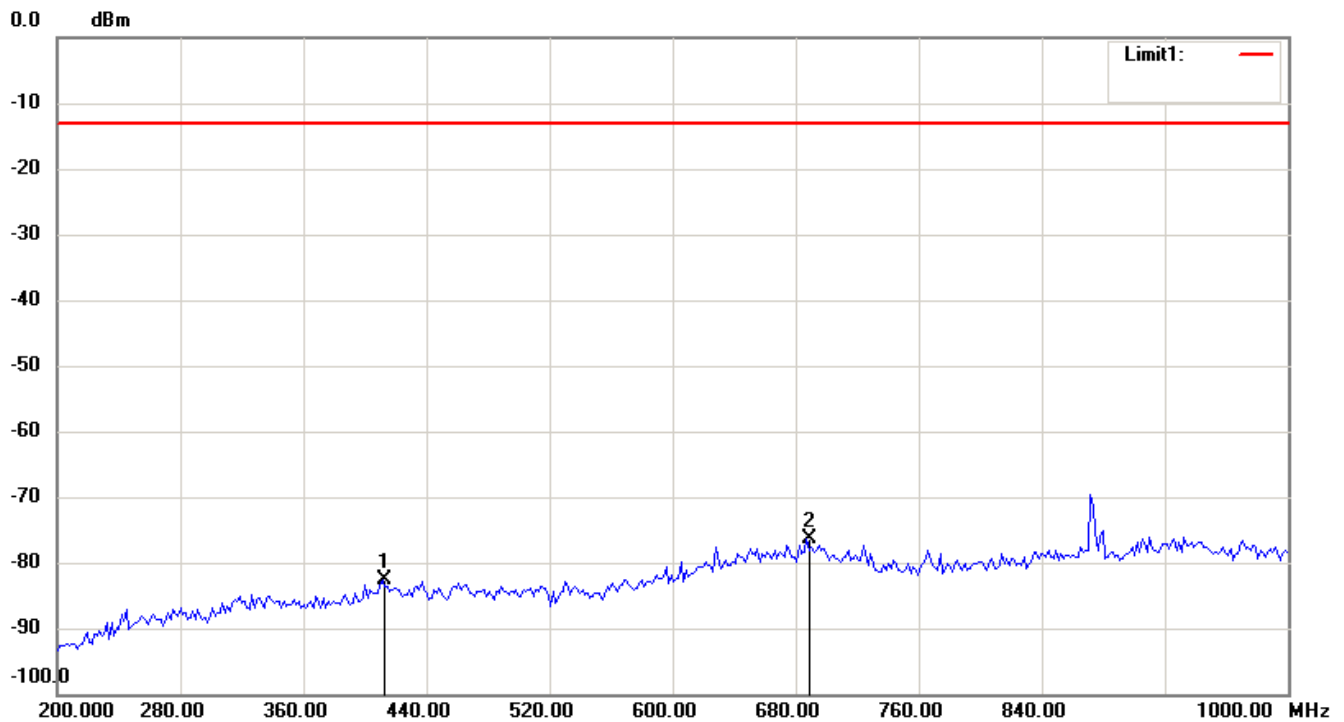
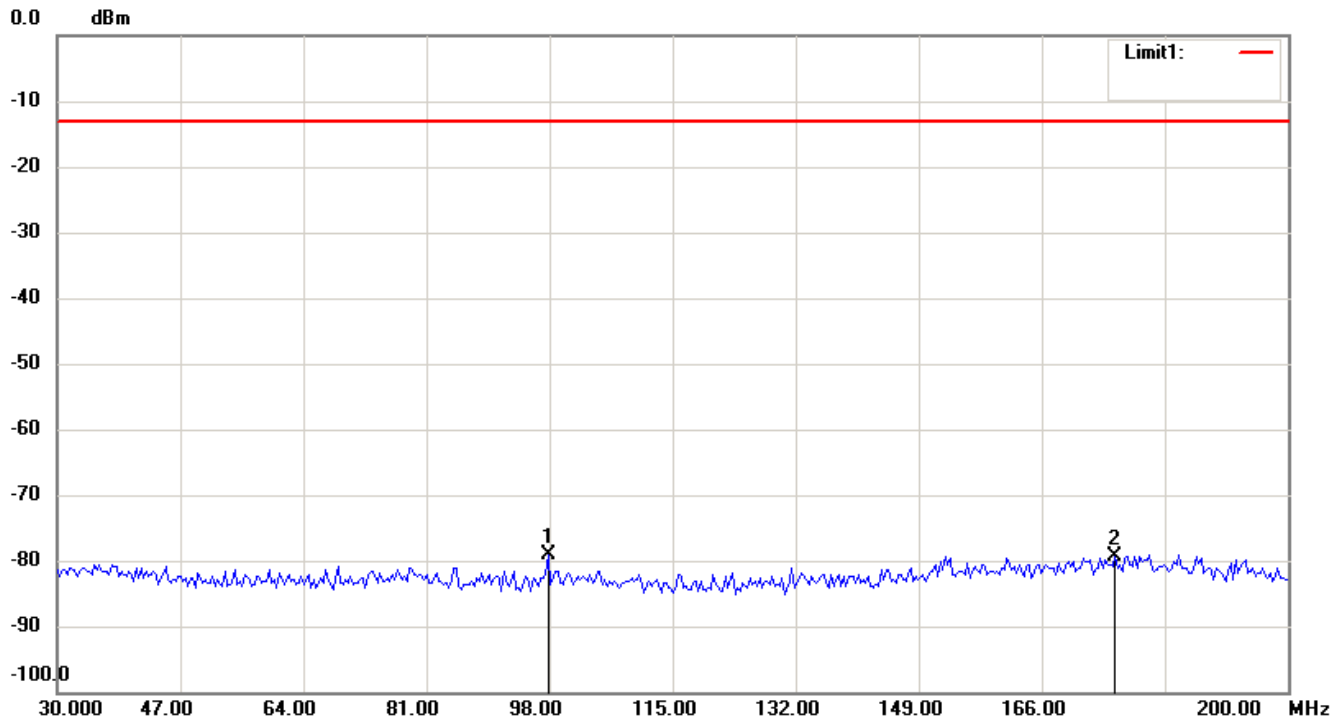


Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

697.125 MHz

Antenna Polarization H



Note:

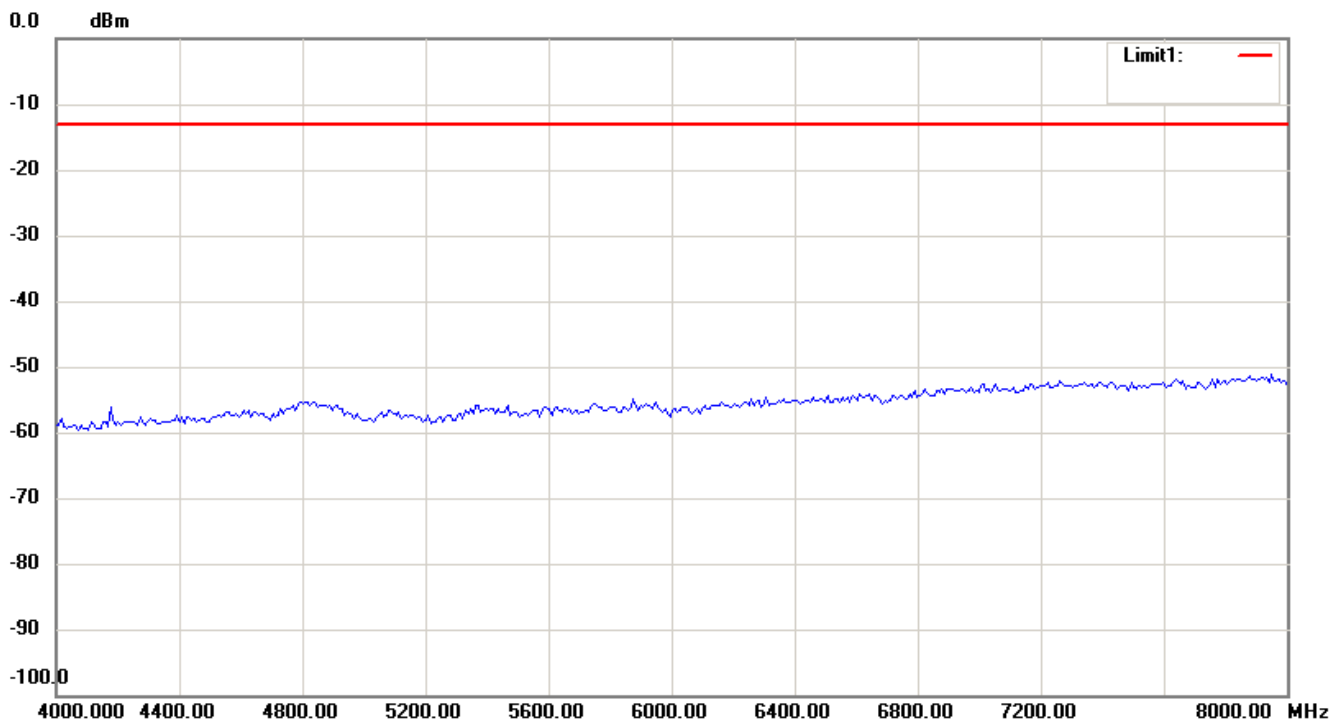
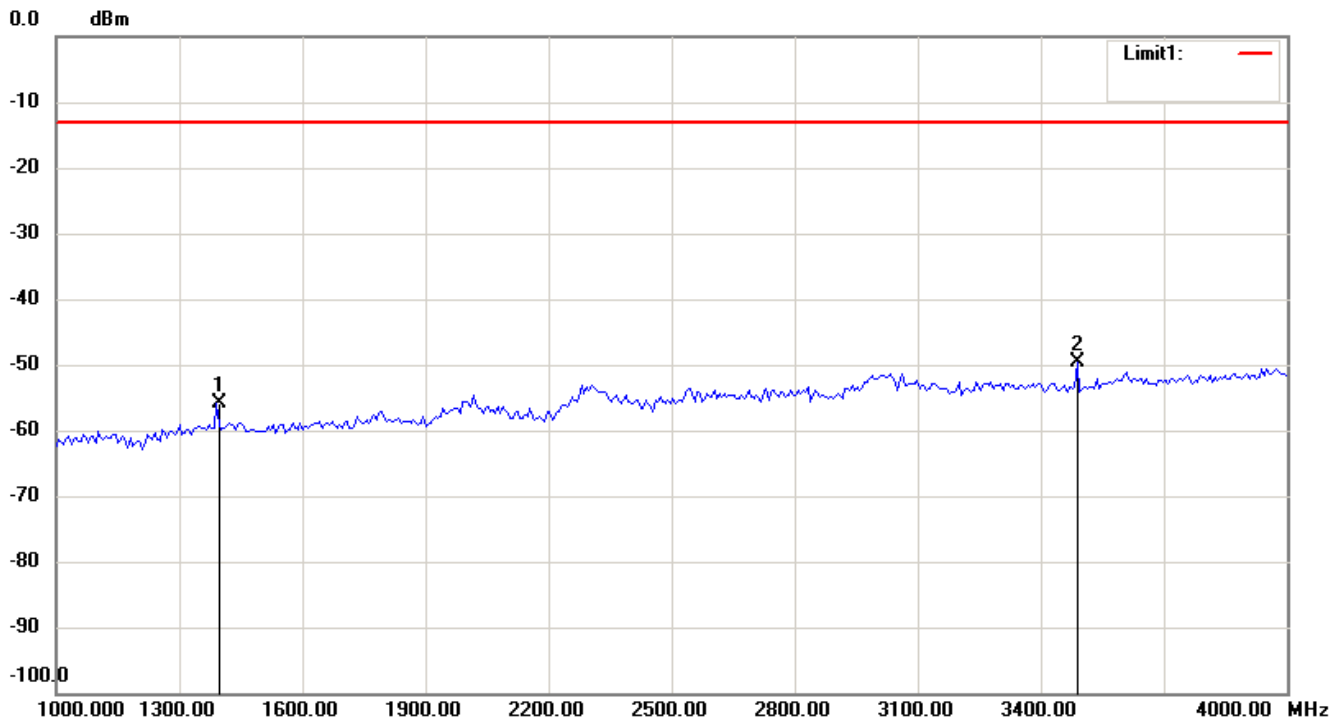
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

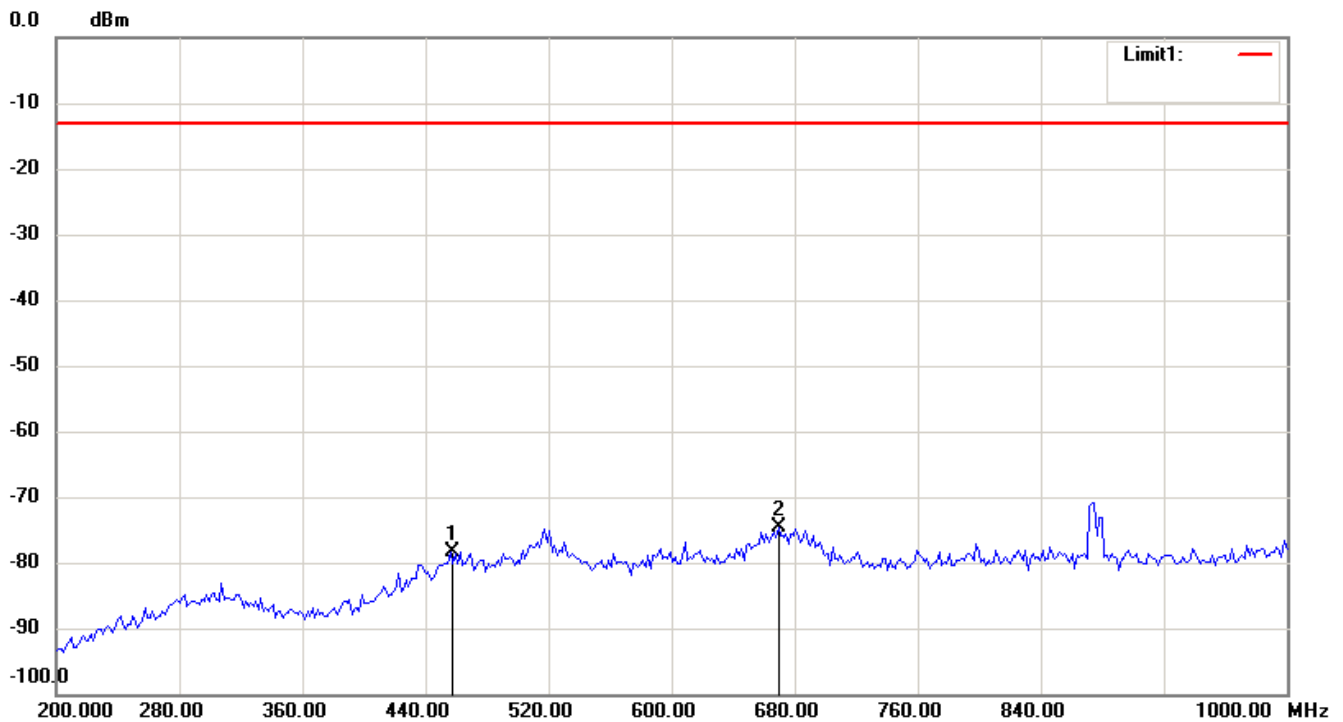
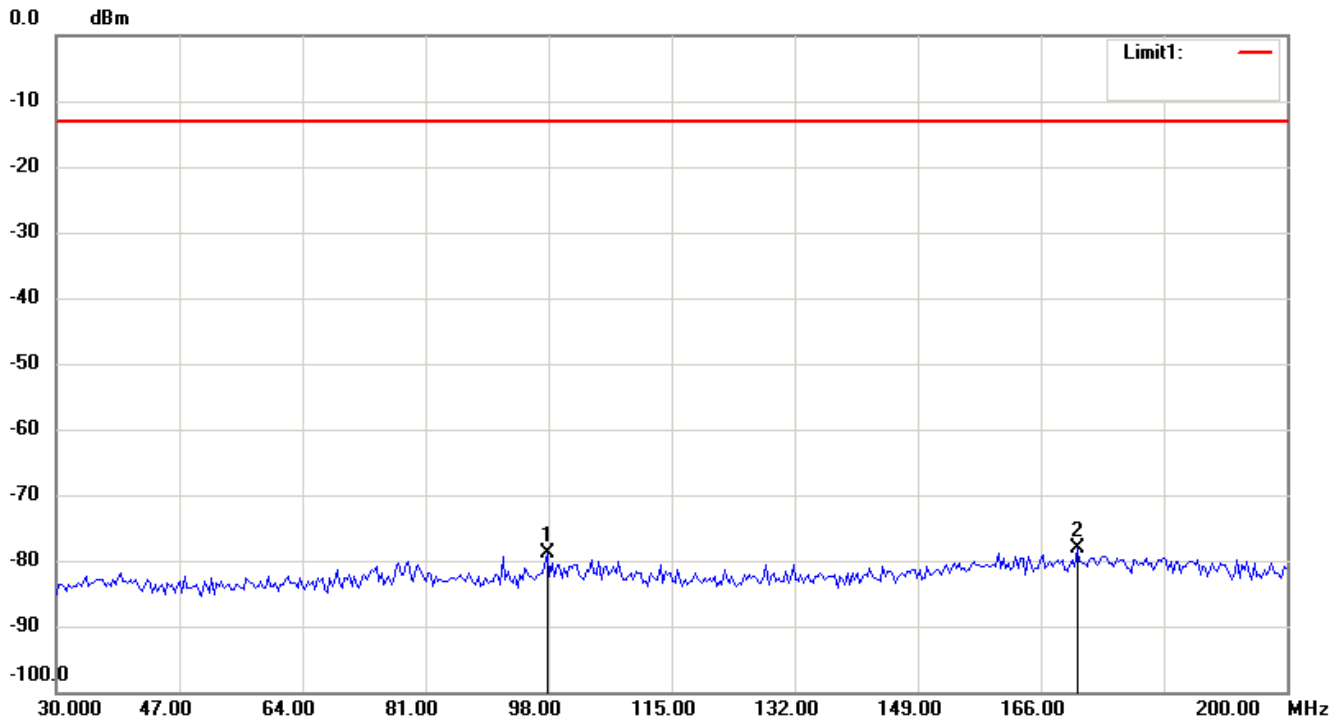
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE

Antenna Polarization V



Note:

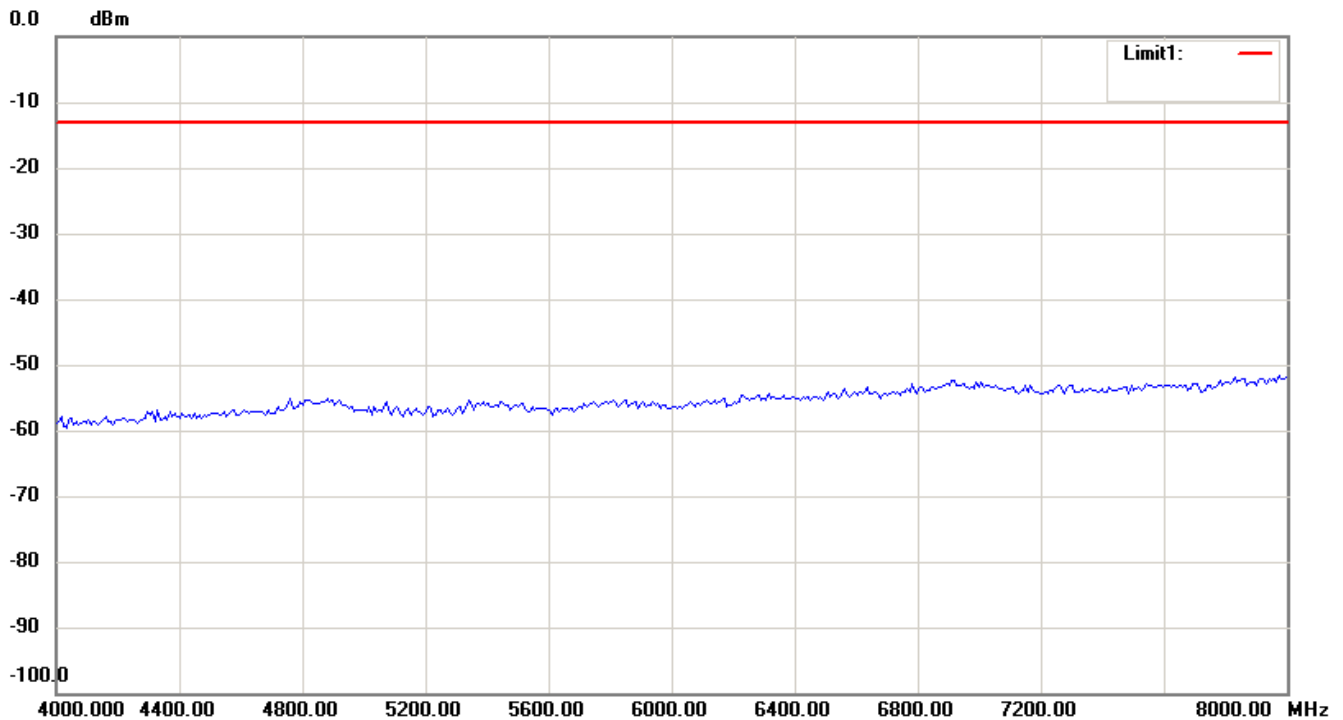
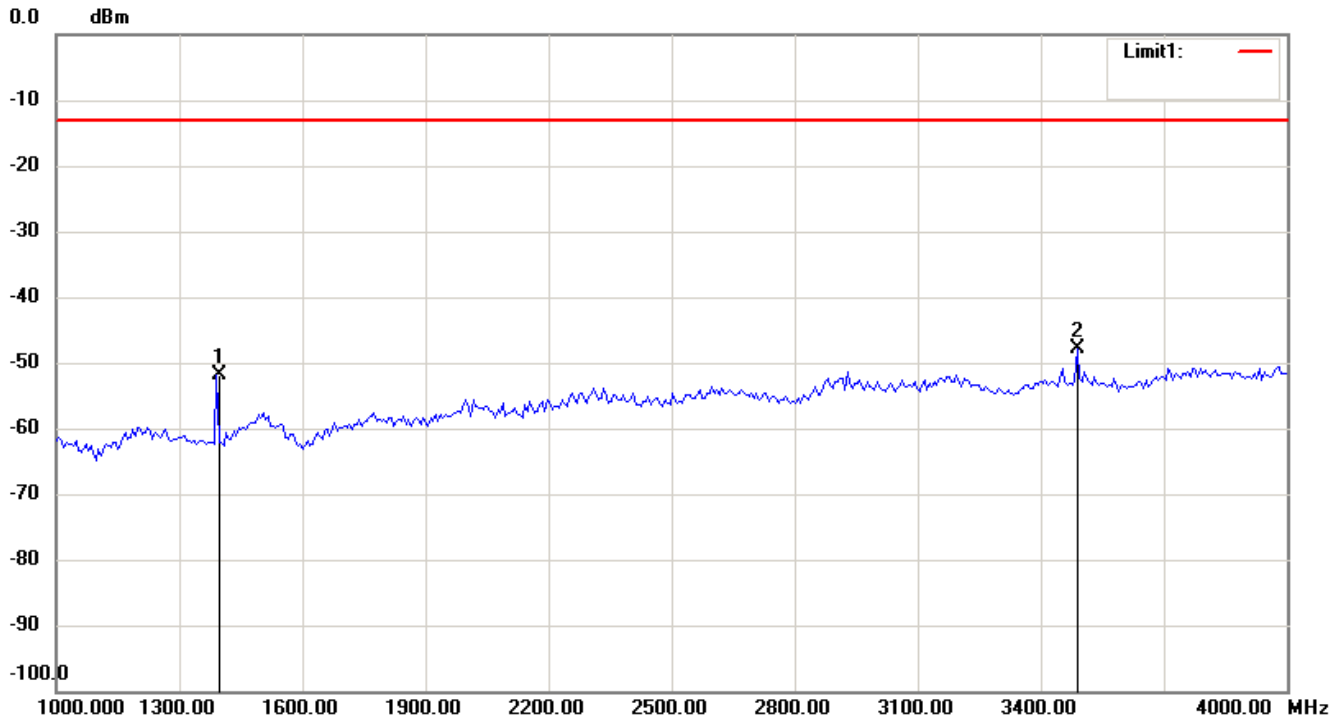
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



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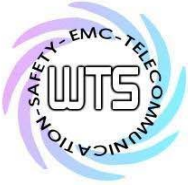
Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

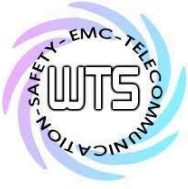


Registration number: W6M21409-14514-C-1

FCC ID: JEBUF-18HE

External Photos



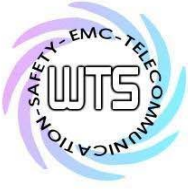


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Registration number: W6M21409-14514-C-1

FCC ID: JEBUT-16HE



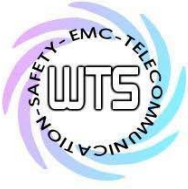


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FCC ID: JEBUT-16HE

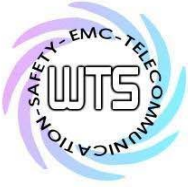




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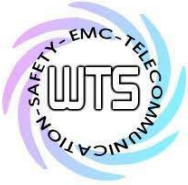




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Registration number: W6M21409-14514-C-1
FCC ID: JEBUT-16HE

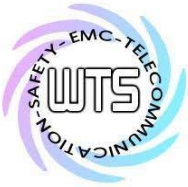




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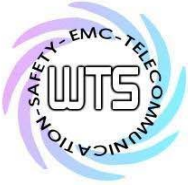


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FCC ID: JEBUT-16HE

Internal Photos

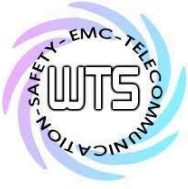




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Set Up Photo of Radiated Emission

