FCC PART 15 SUBPART C TEST REPORT

for

High Power Wi-Fi Adapter for Windows 8

Model No.: TAN1

FCC ID: ZTT-TAN1

of

Applicant: **Amped Wireless**
Address: **13089 Peyton Dr. #C307 Chino Hills California 91709 United States**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01

Report No.: W6M21305-13196-C-1

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

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.
The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.
Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.
Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.
The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that is performance generally conforms to representative cases of 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.

Specific Conditions:
Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.
The test sample is able to work according IEEE 802.11 b/g/n.
This report is related to FCC Part 15 C (DSSS and OFDM device).

Tester:

May 29, 2013		Spencer Yang	Spencer
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

May 29, 2013		Danny Sung	Danny Sung
Date	WTS	Name	Signature

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

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

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

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

1.3 Details of approval holder

Name:	Amped Wireless
Street:	13089 Peyton Dr. #C307
Town:	Chino Hills California 91709
Country:	United States
Telephone:	(909) 217-3229
Fax:	(909) 580-8883

1.4 Application details

Date of receipt of test item:	May 15, 2013
Date of test:	from May 16, 2013 to May 28, 2013

1.5 General information of Test item

Type of test item:	High Power Wi-Fi Adapter for Windows 8
Model Number:	TAN1
Brand Name:	amped wireless
Multi-listing model number:	./.
Photos:	see Appendix

Technical data

Frequency band:	2.4 GHz – 2.4835 GHz
11b, 11g, 11n 20MHz	
Frequency (ch 1 or A):	2.412 GHz
Frequency (ch 6 or B):	2.437 GHz
Frequency (ch 11 or C):	2.462 GHz
11n 40MHz	
Frequency (ch 1 or A):	2.422 GHz
Frequency (ch 4 or B):	2.437 GHz
Frequency (ch 7 or C):	2.452 GHz
Number of Channels:	11b, 11g, 11n 20MHz: 11 11n 40MHz: 7
Operation modes:	duplex
Modulation Type:	DSSS / OFDM
Fixed point-to-point operation:	☐ Yes / ☒ No
Type of Antenna:	Omni Antenna
Antenna gain:	2 dBi
Power supply:	USB 5Vdc(Power from PC)
Emission designator:	11b: DSSS: 16M8G1D 11g: OFDM: 19M0D1D 11n 20MHz: OFDM: 19M3D1D 11n 40MHz: OFDM: 38M0D1D
Host device:	none

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Classification :

Fixed Device	☐
Mobile Device (Human Body distance ＞ 20cm)	☒
Portable Device (Human Body distance ＜ 20cm)	☐
Modular Radio Device	☐

Transmitter **Unom**

Mode A (DSSS)
Power (ch 1 or A): Conducted: 21.62 dBm
Power (ch 6 or B): Conducted: 21.37 dBm
Power (ch 11 or C): Conducted: 20.87 dBm

Mode B (OFDM)
Power (ch 1 or A): Conducted: 26.02 dBm
Power (ch 6 or B): Conducted: 25.81 dBm
Power (ch 11 or C): Conducted: 26.08 dBm

Mode C (OFDM)
Power (ch 1 or A): Conducted: 23.74 dBm
Power (ch 6 or B): Conducted: 23.71 dBm
Power (ch 11 or C): Conducted: 23.48 dBm

Mode D (OFDM)
Power (ch 1 or A): Conducted: 22.98 dBm
Power (ch 4 or B): Conducted: 23.09 dBm
Power (ch 7 or C): Conducted: 23.20 dBm

Manufacturer: (if applicable)
Name: Loopcomm Technology, Ltd.
Street: 6F,No.236,Bo'ai St.,Shulin Dist.,
Town: New Taipei City 23845,
Country: Taiwan,R.O.C.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2011-10)

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

Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Power supply:	USB 5Vdc(Power from PC)
Extreme conditions parameters:	./.

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	2012/9/5	2013/9/4
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	2012/12/21	2013/12/20
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2013/3/4	2014/3/3
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use	
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	2012/7/3	2013/7/2
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2012/9/5	2013/9/4
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2012/9/5	2013/9/4
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	2012/10/12	2013/10/11
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2012/8/01	2013/7/31
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2013/3/4	2014/3/3
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	2013/3/21	2014/3/20
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2013/5/28	2014/5/27
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2013/3/4	2014/3/3
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2012/11/28	2013/11/27
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	2012/10/5	2013/10/4
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2012/10/12	2013/10/11
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2012/12/4	2013/12/3
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2012/12/13	2013/12/12
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2013/1/11	2014/1/10
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	

ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2012/7/3	2013/7/2
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2012/8/18	2013/8/17
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2013/3/4	2014/3/3
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2012/10/5	2013/10/4
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2012/9/18	2013/9/17
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
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.	2013/3/4	2014/3/3
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2012/10/12	2013/10/11
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104（S_Cable 9）	279067	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 054	BNC To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50µH LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2009 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 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 dBµV) 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 dBµV + 10.36 dB + 6 dB = 36.36 dBµV/m @3m

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. 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 Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: 930600.
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.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:
Average = Peak + Duty Factor
Duty Factor = 20 log (dwell time/T)
T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANSI STANDARD C63.4-2009 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.

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent isotropically radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c): 15.209	☒	☒	☐
Band Edge Measurement	15.247(d)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(e)	☒	☒	☐
Radiated Emission from Digital Part	15.109	☐	☐	☐
Power Line Conducted Emission	15.207	☒	☒	☐

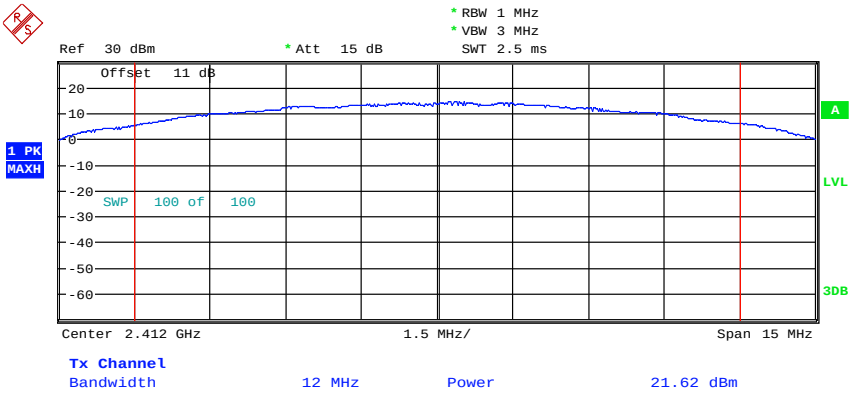
3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

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.

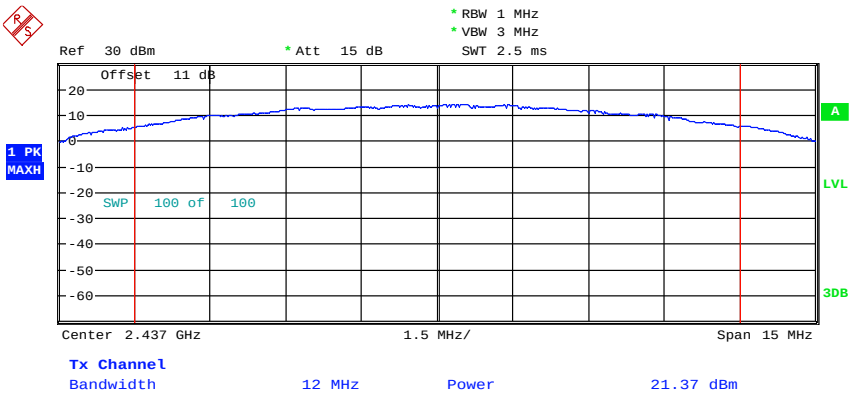
The power was measured with modulation (declared by the applicant).

Mode A

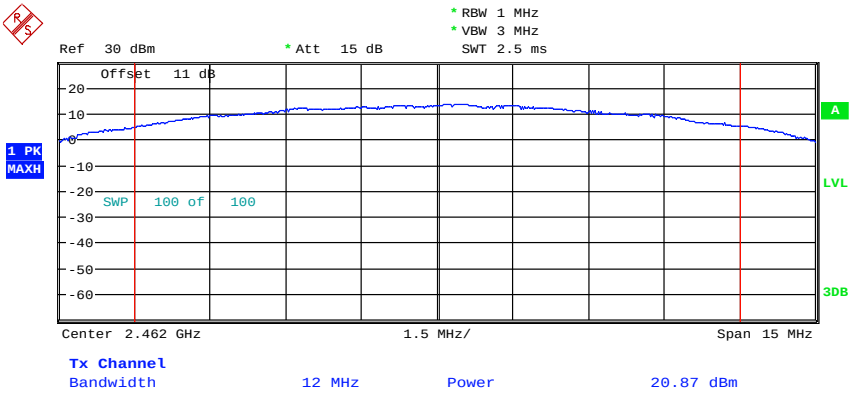


MAX OUTPUT POWER 802.11B CH01
Date: 24.MAY.2013 15:04:56

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



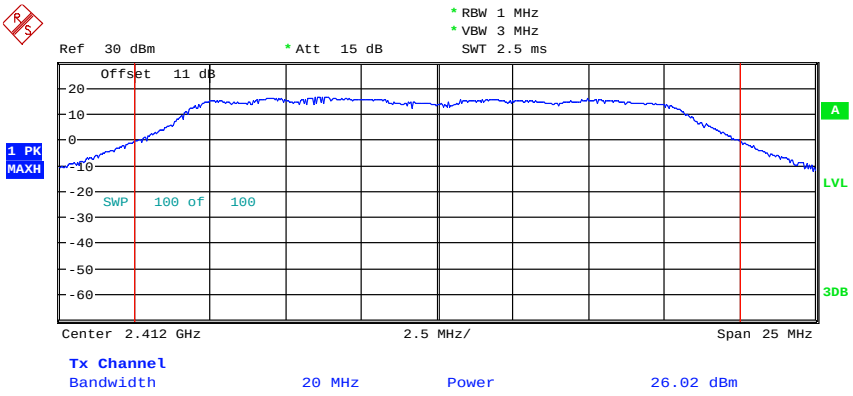
MAX OUTPUT POWER 802.11B CH06
Date: 24.MAY.2013 15:05:36



MAX OUTPUT POWER 802.11B CH11
Date: 24.MAY.2013 15:06:06

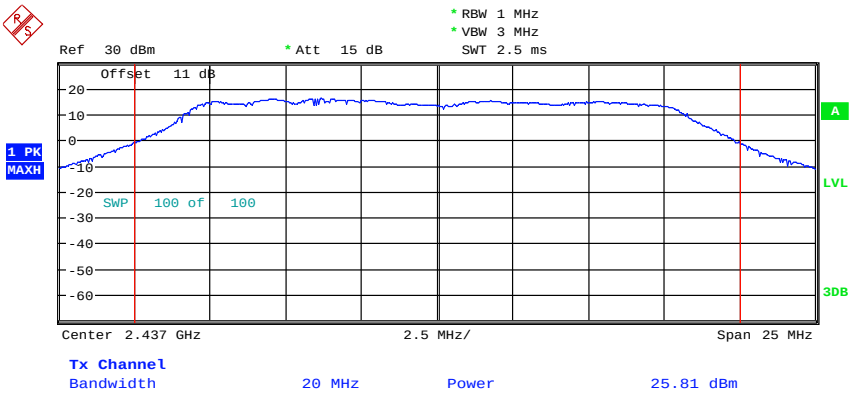
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode B



MAX OUTPUT POWER 802.11G CH01

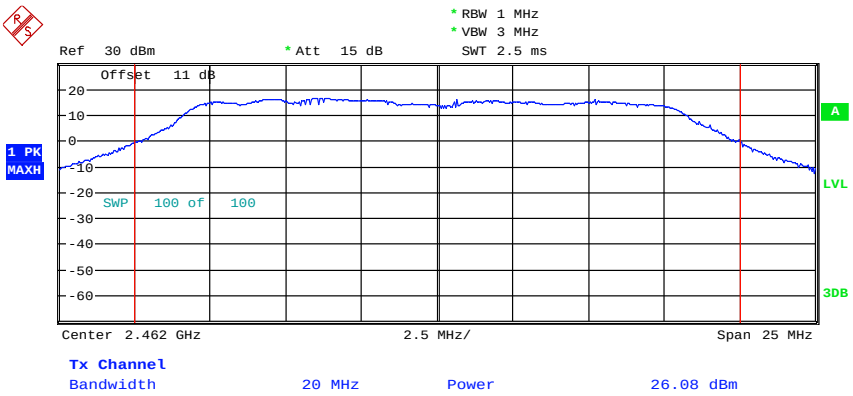
Date: 24.MAY.2013 15:07:02



MAX OUTPUT POWER 802.11G CH06

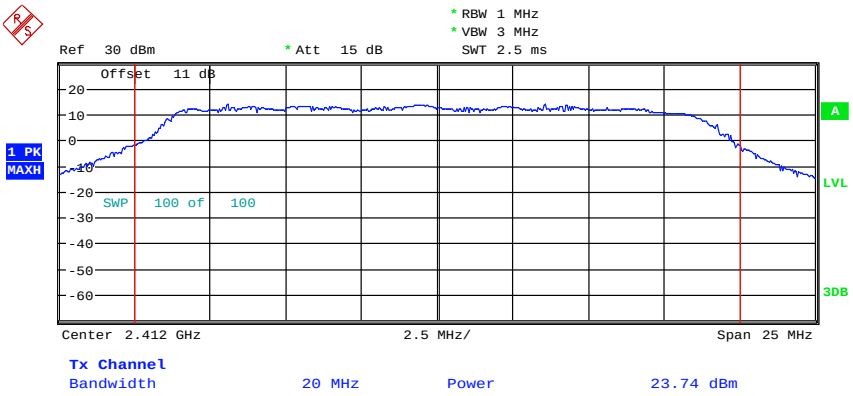
Date: 24.MAY.2013 15:07:40

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



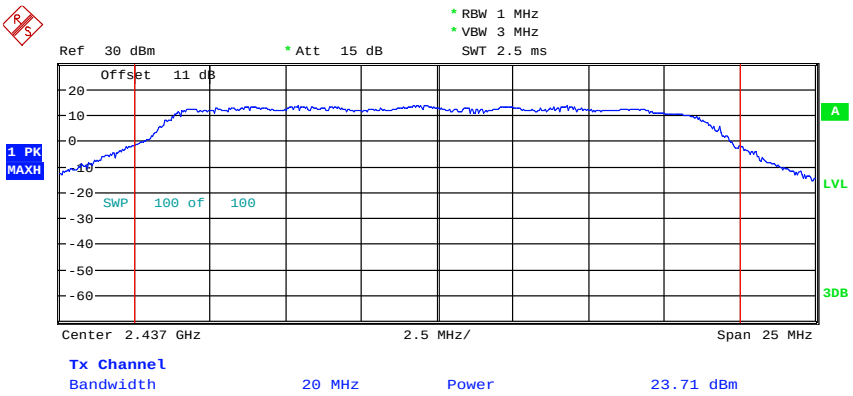
MAX OUTPUT POWER 802.11G CH11
Date: 24.MAY.2013 15:08:14

Mode C

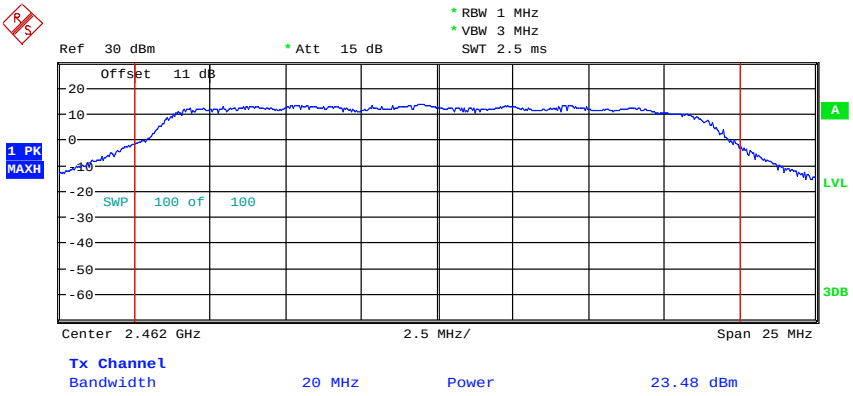


MAX OUTPUT POWER 802.11N 20MHZ CH01
Date: 24.MAY.2013 15:09:09

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



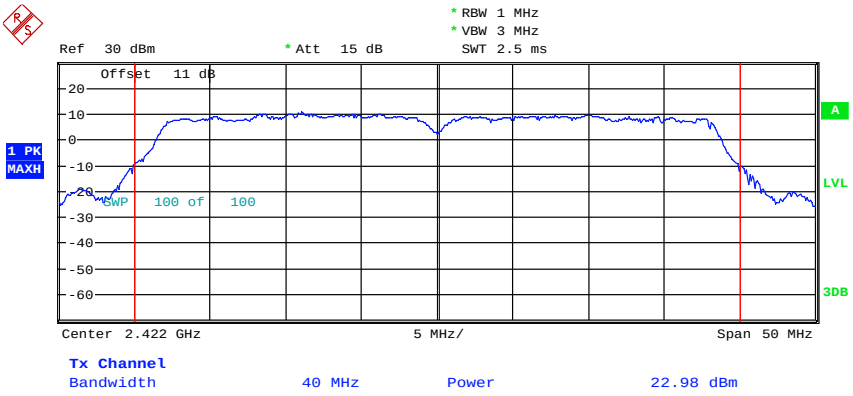
MAX OUTPUT POWER 802.11N 20MHZ CH06
Date: 24.MAY.2013 15:09:58



MAX OUTPUT POWER 802.11N 20MHZ CH11
Date: 24.MAY.2013 15:11:13

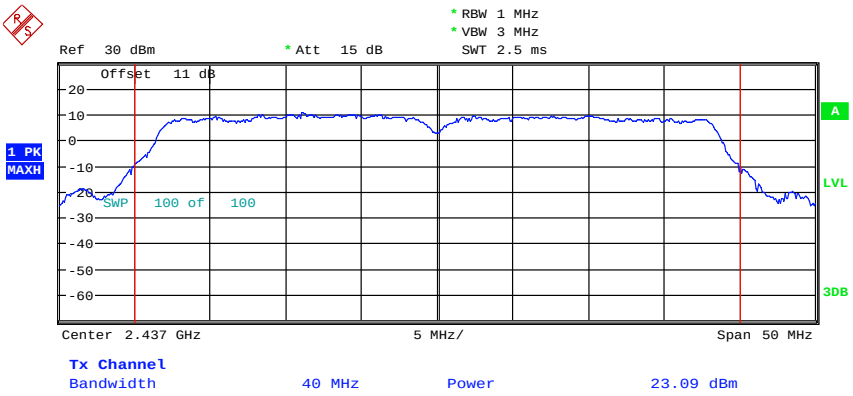
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode D



MAX OUTPUT POWER 802.11N 40MHZ CH01

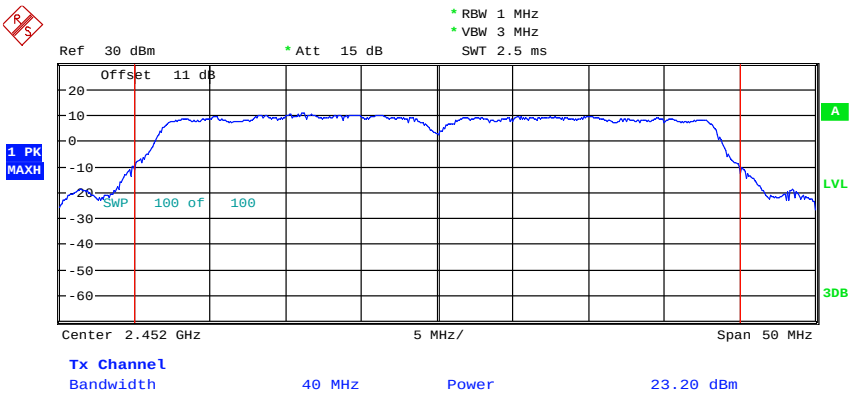
Date: 24.MAY.2013 15:12:48



MAX OUTPUT POWER 802.11N 40MHZ CH04

Date: 24.MAY.2013 15:13:25

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



MAX OUTPUT POWER 802.11N 40MHZ CH07
Date: 24.MAY.2013 15:14:00

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain ＞ 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

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

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain
EIRP = 26.08 dBm + 2 dBi
= 28.08 dBm
Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.
The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density
P – Output power ERP
R – Distance
D – Cable Loss
AG – Antenna Gain

Item	Unit	Value	**Remarks**
P	mW	405.5085	Peak value
D	dB		
AG	dBi	2	
G		1.5849	Calculated Value
R	cm	20	Assumed value
S	mW/cm^2	0.1279	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm^2)
1500 – 100.000	1.0

3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35
Radiated emission measurements were performed from 30 MHz to 26500 MHz.
For radiated emission tests, the analyzer setting was as followings:

Frequency ≦ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)
Frequency ＞1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)
Frequency ＞1 GHz , RBW:1 MHz , VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

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	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = 20 log (dwell time/ 100ms)

Note: No duty cycle correction was added to the reading of this EUT.

Explanation: see attached diagrams in Appendix.

3.5 Spurious Emissions (tx)

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

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35
For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies above 1GHz (Peak measurements).
Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).
Max. reading – 20dB

Max. reading – 20 dB
Guidance on Measurement of Digit Transmission Systems:
“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = 20 log (dwell time/100ms)

Note: No duty cycle correction was added to the reading of EUT.

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

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.

The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Correction Factor".

Summary table with radiated data of the test plots

Model:	TAN1	Date:	2013/05/23~ 2013/05/24		
Mode:	802.11B CH1	Temperature:	24 °C	Engineer:	Kevin
Polarization:	Horizontal	Humidity:	60 %		

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	28.14	peak	10.52	38.66	43.50	-4.84	210	100
300.2004	25.18	peak	15.91	41.09	46.00	-4.91	40	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4824.0000	48.73	---	0.50	49.23	---	74.00	54.00	-24.77	240	100
7236.0000	39.56	---	4.06	43.62	---	74.00	54.00	-30.38	200	100
9648.0000	35.25	---	9.16	44.41	---	74.00	54.00	-29.59	190	100
12060.0000	34.69	---	13.89	48.58	---	74.00	54.00	-25.42	230	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	27.79	peak	10.52	38.31	43.50	-5.19	310	100
480.9820	23.01	peak	20.38	43.39	46.00	-2.61	20	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4824.0000	50.32	---	0.50	50.82	---	74.00	54.00	-23.18	160	100
7236.0000	41.39	---	4.06	45.45	---	74.00	54.00	-28.55	160	100
9646.7940	42.92	---	9.16	52.08	---	74.00	54.00	-21.92	150	100
12060.0000	33.85	---	13.89	47.74	---	74.00	54.00	-26.26	140	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode: 802.11B CH6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
166.0721	20.95	peak	15.02	35.97	43.50	-7.53	120	100
292.4248	25.03	peak	15.84	40.87	46.00	-5.13	165	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4873.7480	47.00	---	0.61	47.61	---	74.00	54.00	-26.39	150	100
7311.0000	40.59	---	4.20	44.79	---	74.00	54.00	-29.21	160	100
9748.0000	34.99	---	9.51	44.50	---	74.00	54.00	-29.50	100	100
12185.0000	32.97	---	14.83	47.80	---	74.00	54.00	-26.20	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
111.6432	27.09	peak	12.92	40.01	43.50	-3.49	140	100
480.9820	18.67	peak	20.38	39.05	46.00	-6.95	230	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4873.7480	49.54	---	0.61	50.15	---	74.00	54.00	-23.85	160	100
7311.0000	40.56	---	4.20	44.76	---	74.00	54.00	-29.24	140	100
9748.0000	35.57	---	9.51	45.08	---	74.00	54.00	-28.92	120	100
12185.0000	31.63	---	14.83	46.46	---	74.00	54.00	-27.54	150	100

Mode: 802.11B CH11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
166.0721	22.32	peak	15.02	37.34	43.50	-6.16	155	100
333.2465	25.80	peak	16.72	42.52	46.00	-3.48	230	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4924.0260	56.18	42.89	0.84	57.02	43.73	74.00	54.00	-10.27	230	100
7386.0000	39.97	---	4.43	44.40	---	74.00	54.00	-29.60	200	100
9848.0000	34.97	---	9.76	44.73	---	74.00	54.00	-29.27	120	100
12310.0000	34.11	---	14.12	48.23	---	74.00	54.00	-25.77	140	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	25.18	peak	13.17	38.35	40.00	-1.65	170	100
113.5871	27.24	peak	13.06	40.30	43.50	-3.20	55	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4924.0260	51.88	42.24	0.84	52.72	43.08	74.00	54.00	-10.92	10	100
7386.0000	41.05	---	4.43	45.48	---	74.00	54.00	-28.52	40	210
9848.0000	34.68	---	9.76	44.44	---	74.00	54.00	-29.56	120	100
12310.0000	34.08	---	14.12	48.20	---	74.00	54.00	-25.80	130	100

Mode: 802.11G CH1
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
286.5932	25.10	peak	15.68	40.78	46.00	-5.22	110	100
327.4148	23.52	peak	16.60	40.12	46.00	-5.88	160	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4817.6350	46.44	---	0.48	46.92	---	74.00	54.00	-27.08	310	100
7236.0000	40.41	---	4.06	44.47	---	74.00	54.00	-29.53	200	100
9648.0000	35.12	---	9.16	44.28	---	74.00	54.00	-29.72	230	100
12060.0000	33.68	---	13.89	47.57	---	74.00	54.00	-26.43	100	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	24.86	peak	13.17	38.03	40.00	-1.97	165	100
113.5871	28.35	peak	13.06	41.41	43.50	-2.09	240	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4817.6350	48.15	---	0.48	48.63	---	74.00	54.00	-25.37	250	100
7236.0000	42.13	---	4.06	46.19	---	74.00	54.00	-27.81	310	100
9648.0000	35.47	---	9.16	44.63	---	74.00	54.00	-29.37	210	100
12060.0000	33.82	---	13.89	47.71	---	74.00	54.00	-26.29	60	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode: 802.11G CH6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
164.1281	21.07	peak	15.10	36.17	43.50	-7.33	160	100
480.9820	23.57	peak	20.38	43.95	46.00	-2.05	105	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4874.0000	42.09	---	0.61	42.70	---	74.00	54.00	-31.30	120	100
7311.0000	40.24	---	4.20	44.44	---	74.00	54.00	-29.56	40	100
9748.0000	34.81	---	9.51	44.32	---	74.00	54.00	-29.68	30	100
12185.0000	32.43	---	14.83	47.26	---	74.00	54.00	-26.74	110	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
117.4750	25.72	peak	13.36	39.08	43.50	-4.42	170	100
480.9820	22.63	peak	20.38	43.01	46.00	-2.99	125	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4865.7310	43.68	---	0.59	44.27	---	74.00	54.00	-29.73	40	100
7311.0000	41.05	---	4.20	45.25	---	74.00	54.00	-28.75	210	100
9748.0000	34.50	---	9.51	44.01	---	74.00	54.00	-29.99	40	100
12185.0000	32.12	---	14.83	46.95	---	74.00	54.00	-27.05	230	100

Mode: 802.11G CH11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
286.5932	24.19	peak	15.68	39.87	46.00	-6.13	145	100
329.3586	23.40	peak	16.64	40.04	46.00	-5.96	205	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4929.8600	43.83	---	0.88	44.71	---	74.00	54.00	-29.29	40	100
7386.0000	39.46	---	4.43	43.89	---	74.00	54.00	-30.11	210	100
9848.0000	34.87	---	9.76	44.63	---	74.00	54.00	-29.37	130	100
12310.0000	34.47	---	14.12	48.59	---	74.00	54.00	-25.41	220	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
113.5871	27.70	peak	13.06	40.76	43.50	-2.74	135	100
480.9820	23.06	peak	20.38	43.44	46.00	-2.56	120	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4924.0000	44.58	---	0.84	45.42	---	74.00	54.00	-28.58	130	100
7386.0000	40.35	---	4.43	44.78	---	74.00	54.00	-29.22	20	100
9848.0000	35.68	---	9.76	45.44	---	74.00	54.00	-28.56	40	100
12310.0000	33.86	---	14.12	47.98	---	74.00	54.00	-26.02	110	100

Mode: 802.11n 20 MHz CH1
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
286.5932	24.99	peak	15.68	40.67	46.00	-5.33	155	100
327.4148	25.87	peak	16.60	42.47	46.00	-3.53	75	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4824.0000	42.68	---	0.50	43.18	---	74.00	54.00	-30.82	210	100
7236.0000	40.85	---	4.06	44.91	---	74.00	54.00	-29.09	50	100
9648.0000	35.64	---	9.16	44.80	---	74.00	54.00	-29.20	110	100
12060.0000	34.43	---	13.89	48.32	---	74.00	54.00	-25.68	100	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9437	23.40	peak	13.30	36.70	40.00	-3.30	160	100
111.6431	26.46	peak	12.92	39.38	43.50	-4.12	125	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4824.0000	44.13	---	0.50	44.63	---	74.00	54.00	-29.37	30	100
7236.0000	40.40	---	4.06	44.46	---	74.00	54.00	-29.54	110	100
9648.0000	35.44	---	9.16	44.60	---	74.00	54.00	-29.40	240	100
12060.0000	34.60	---	13.89	48.49	---	74.00	54.00	-25.51	50	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode: 802.11n 20 MHz CH6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
164.1281	23.18	peak	15.10	38.28	43.50	-5.22	210	100
480.9820	21.89	peak	20.38	42.27	46.00	-3.73	255	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4874.0000	41.20	---	0.61	41.81	---	74.00	54.00	-32.19	220	100
7311.0000	40.28	---	4.20	44.48	---	74.00	54.00	-29.52	110	100
9748.0000	34.55	---	9.51	44.06	---	74.00	54.00	-29.94	130	100
12185.0000	32.23	---	14.83	47.06	---	74.00	54.00	-26.94	205	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
111.6432	27.43	peak	12.92	40.35	43.50	-3.15	120	100
480.9820	23.08	peak	20.38	43.46	46.00	-2.54	85	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4873.7480	43.65	---	0.61	44.26	---	74.00	54.00	-29.74	50	100
7311.0000	40.05	---	4.20	44.25	---	74.00	54.00	-29.75	140	100
9748.0000	34.65	---	9.51	44.16	---	74.00	54.00	-29.84	70	100
12185.0000	32.37	---	14.83	47.20	---	74.00	54.00	-26.80	110	100

Mode: 802.11n 20 MHz CH11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
333.2465	22.95	peak	16.72	39.67	46.00	-6.33	175	100
480.9820	21.50	peak	20.38	41.88	46.00	-4.12	210	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4913.8280	42.62	---	0.77	43.39	---	74.00	54.00	-30.61	220	100
7386.0000	40.14	---	4.43	44.57	---	74.00	54.00	-29.43	100	100
9848.0000	34.94	---	9.76	44.70	---	74.00	54.00	-29.30	140	100
12310.0000	34.05	---	14.12	48.17	---	74.00	54.00	-25.83	300	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
113.5871	27.79	peak	13.06	40.85	43.50	-2.65	140	100
480.9820	22.30	peak	20.38	42.68	46.00	-3.32	75	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4924.0000	42.73	---	0.84	43.57	---	74.00	54.00	-30.43	300	100
7386.0000	39.80	---	4.43	44.23	---	74.00	54.00	-29.77	250	100
9848.0000	35.11	---	9.76	44.87	---	74.00	54.00	-29.13	160	100
12310.0000	33.91	---	14.12	48.03	---	74.00	54.00	-25.97	280	100

Mode: 802.11n 40 MHz CH1
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	26.30	peak	10.52	36.82	43.50	-6.68	235	100
300.2004	25.39	peak	15.91	41.30	46.00	-4.70	155	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4844.0000	40.54	---	0.54	41.08	---	74.00	54.00	-32.92	230	100
7266.0000	40.56	---	4.11	44.67	---	74.00	54.00	-29.33	110	100
9688.0000	35.77	---	9.19	44.96	---	74.00	54.00	-29.04	50	100
12110.0000	34.88	---	14.34	49.22	---	74.00	54.00	-24.78	330	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	26.32	peak	10.52	36.84	43.50	-6.66	235	100
480.9820	21.83	peak	20.38	42.21	46.00	-3.79	55	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4841.6830	44.15	---	0.54	44.69	---	74.00	54.00	-29.31	170	100
7266.0000	40.89	---	4.11	45.00	---	74.00	54.00	-29.00	30	100
9688.0000	35.71	---	9.19	44.90	---	74.00	54.00	-29.10	310	100
12110.0000	33.51	---	14.34	47.85	---	74.00	54.00	-26.15	200	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode: 802.11n 40 MHz CH4
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
103.8676	25.88	peak	11.65	37.53	43.50	-5.97	165	100
300.2004	25.94	peak	15.91	41.85	46.00	-4.15	275	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4874.0000	41.78	---	0.61	42.39	---	74.00	54.00	-31.61	40	100
7311.0000	40.11	---	4.20	44.31	---	74.00	54.00	-29.69	110	100
9748.0000	34.58	---	9.51	44.09	---	74.00	54.00	-29.91	210	100
12185.0000	33.73	---	14.83	48.56	---	74.00	54.00	-25.44	150	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
480.9820	24.18	peak	20.38	44.56	46.00	-1.44	135	100
961.1222	15.56	peak	28.25	43.81	54.00	-10.19	230	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4873.7480	43.21	---	0.61	43.82	---	74.00	54.00	-30.18	60	100
7311.0000	39.95	---	4.20	44.15	---	74.00	54.00	-29.85	230	100
9748.0000	36.06	---	9.51	45.57	---	74.00	54.00	-28.43	140	100
12185.0000	32.34	---	14.83	47.17	---	74.00	54.00	-26.83	90	100

Mode: 802.11n 40 MHz CH7
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
103.8676	25.46	peak	11.65	37.11	43.50	-6.39	170	100
164.1282	23.08	peak	15.10	38.18	43.50	-5.32	150	100

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4904.0000	41.31	---	0.70	42.01	---	74.00	54.00	-31.99	120	100
7356.0000	41.11	---	4.34	45.45	---	74.00	54.00	-28.55	300	100
9780.0600	36.51	---	9.71	46.22	---	74.00	54.00	-27.78	120	100
12260.0000	33.35	---	14.37	47.72	---	74.00	54.00	-26.28	40	100

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
98.0361	26.55	peak	10.52	37.07	43.50	-6.43	275	100
480.9820	23.77	peak	20.38	44.15	46.00	-1.85	120	100

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
4904.0000	42.75	---	0.70	43.45	---	74.00	54.00	-30.55	110	100
7356.0000	40.94	---	4.34	45.28	---	74.00	54.00	-28.72	40	100
9808.0000	35.73	---	9.83	45.56	---	74.00	54.00	-28.44	205	100
12260.0000	32.79	---	14.37	47.16	---	74.00	54.00	-26.84	300	100

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 = ± 3.72 dB, 1-18 GHz = ± 5.33 dB, 18-40 GHz= ± 3.43 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **See attached diagrams in appendix.**

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

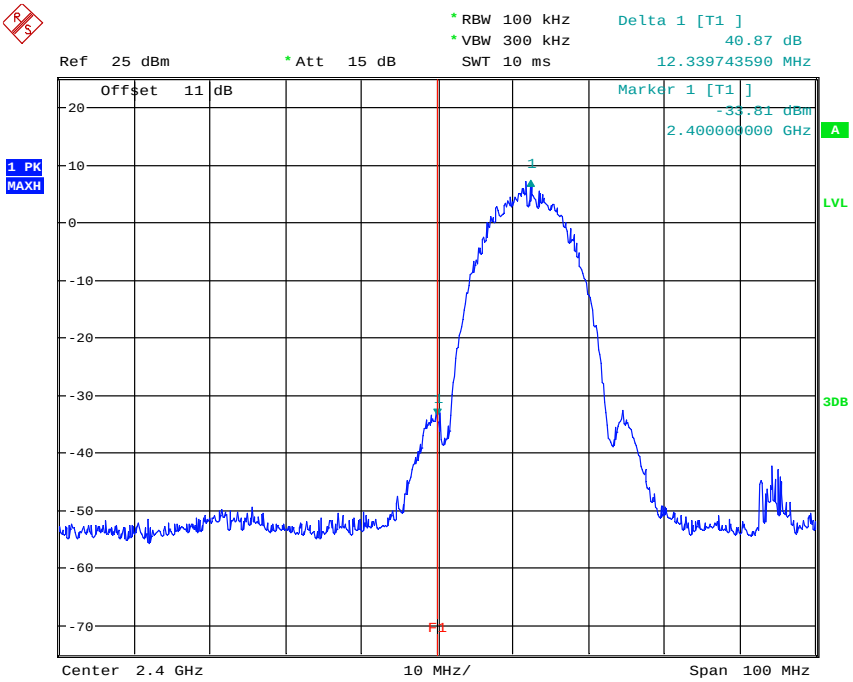
Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111, ETSTW-RE 088, ETSTW-RE 018

3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required.

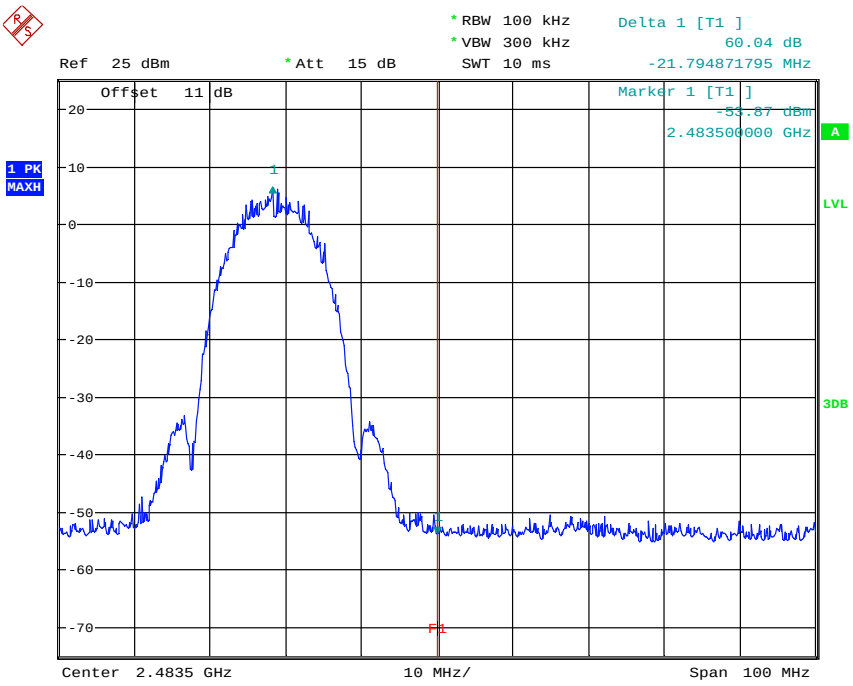
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

Mode A



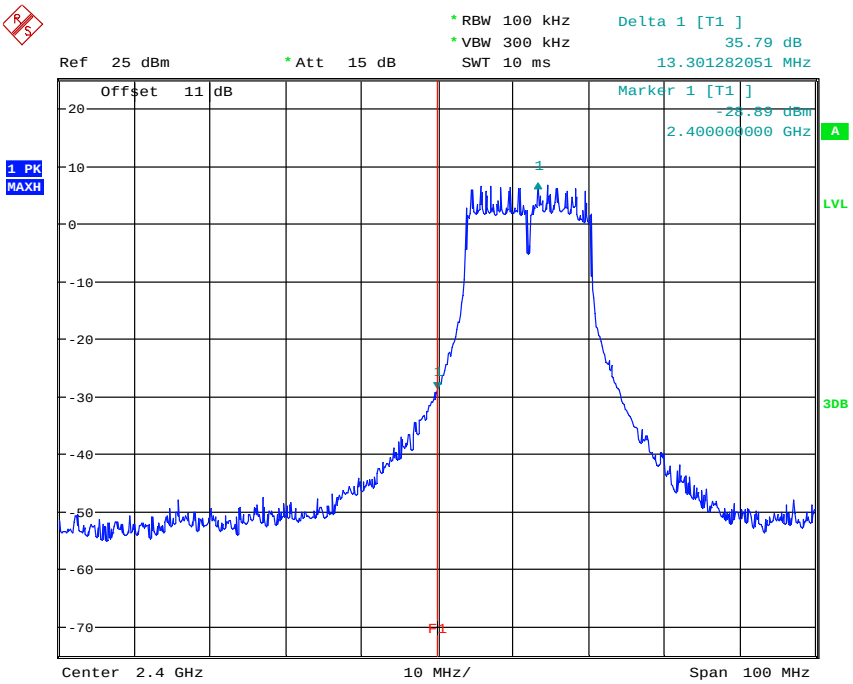
BANDEDGE 802.11B CH01
Date: 24.MAY.2013 15:05:17

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



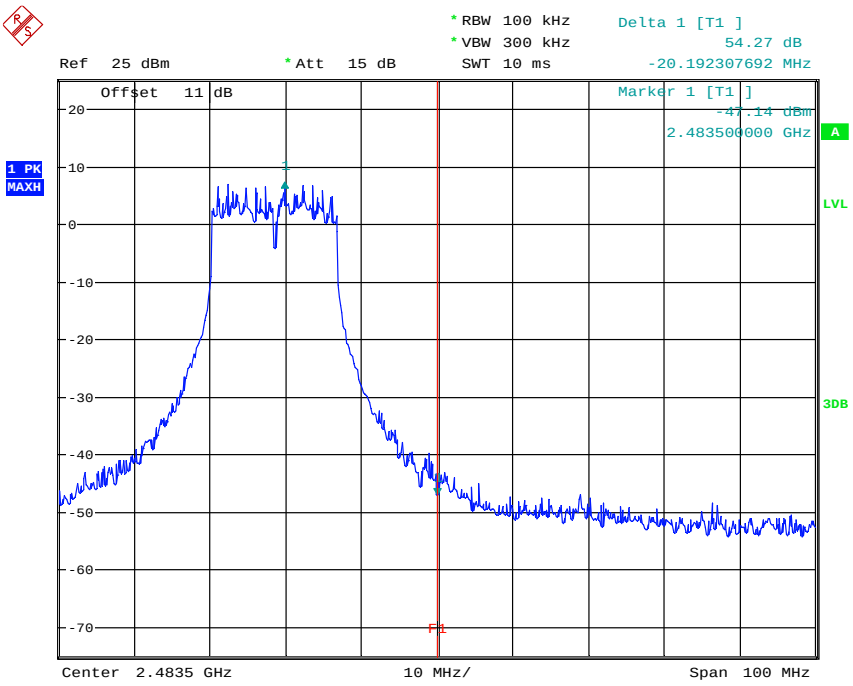
BANDEDGE 802.11B CH11
Date: 24.MAY.2013 15:06:26

Mode B



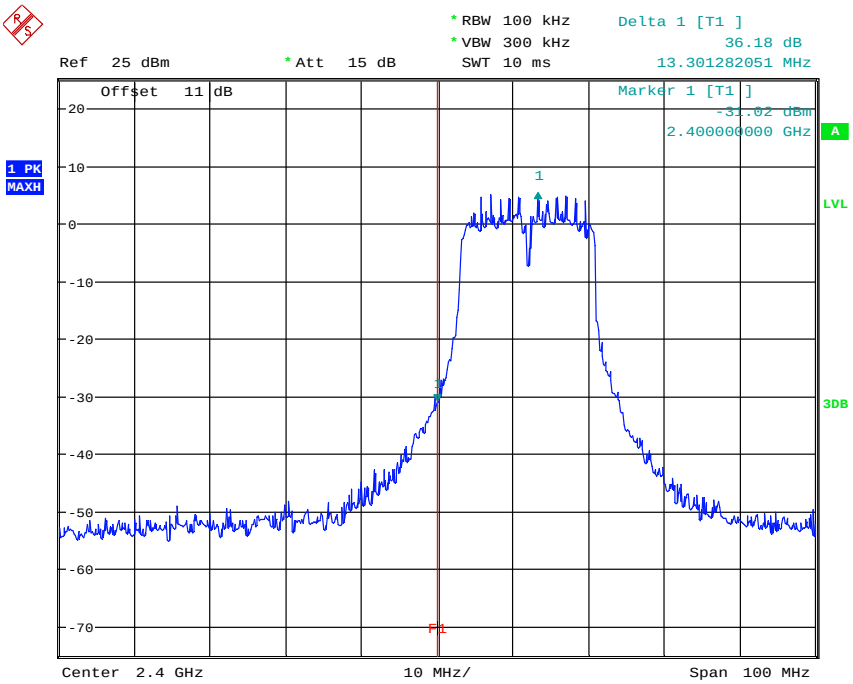
BANDEDGE 802.11G CH01
Date: 24.MAY.2013 15:07:22

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



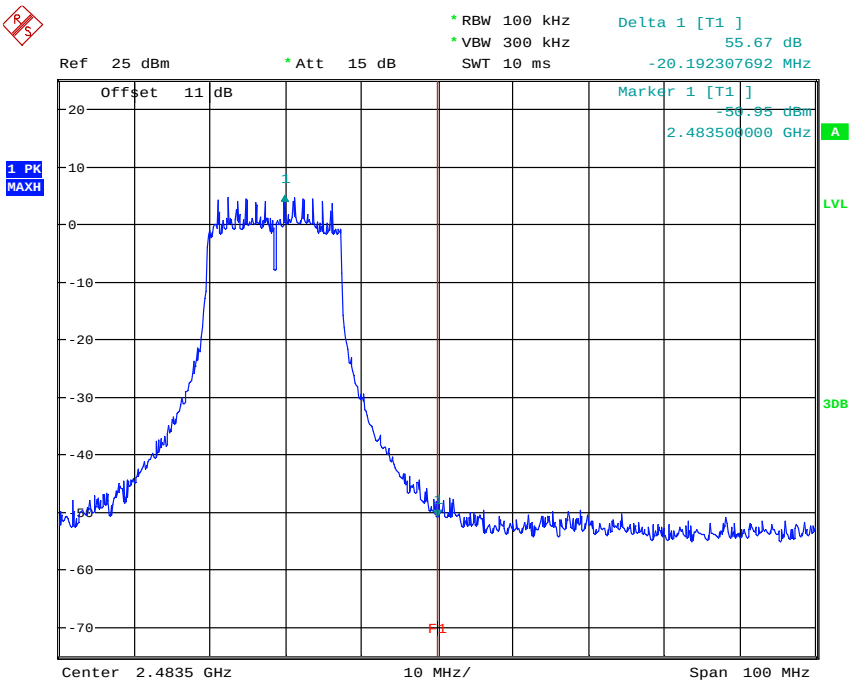
BANDEDGE 802.11G CH11
Date: 24.MAY.2013 15:08:34

Mode C



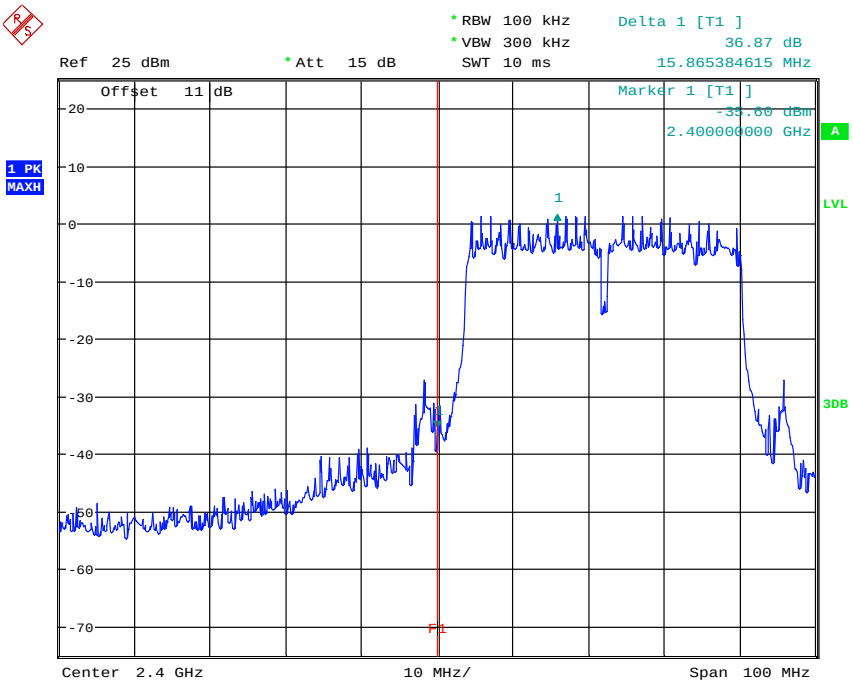
BANDEDGE 802.11N 20MHZ CH01
Date: 24.MAY.2013 15:09:28

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



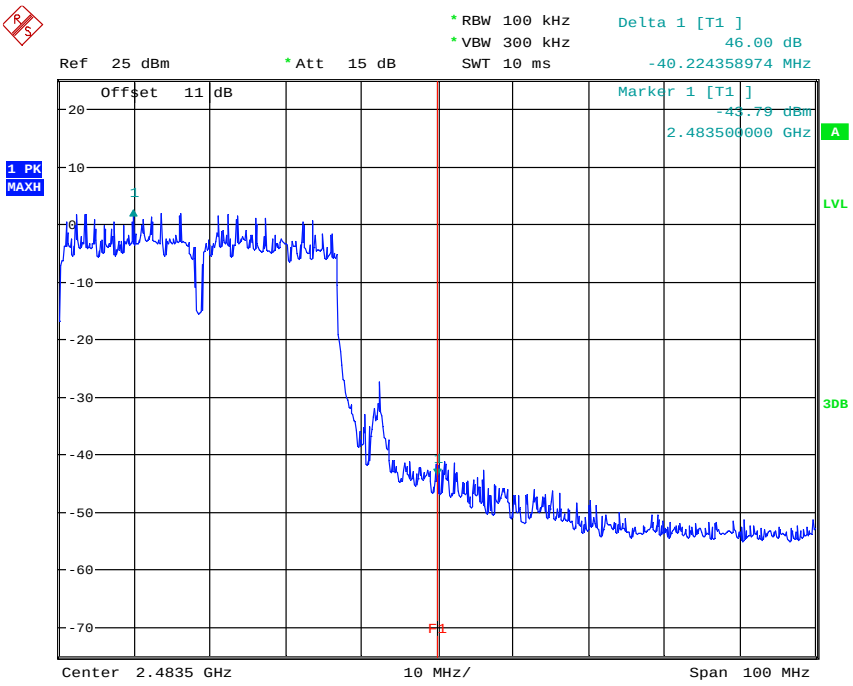
BANDEDGE 802.11N 20MHZ CH11
Date: 24.MAY.2013 15:11:33

Mode D



BANDEDGE 802.11N 40MHZ CH01
Date: 24.MAY.2013 15:13:08

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



BANDEDGE 802.11N 40MHZ CH07
Date: 24.MAY.2013 15:14:20

Limit:

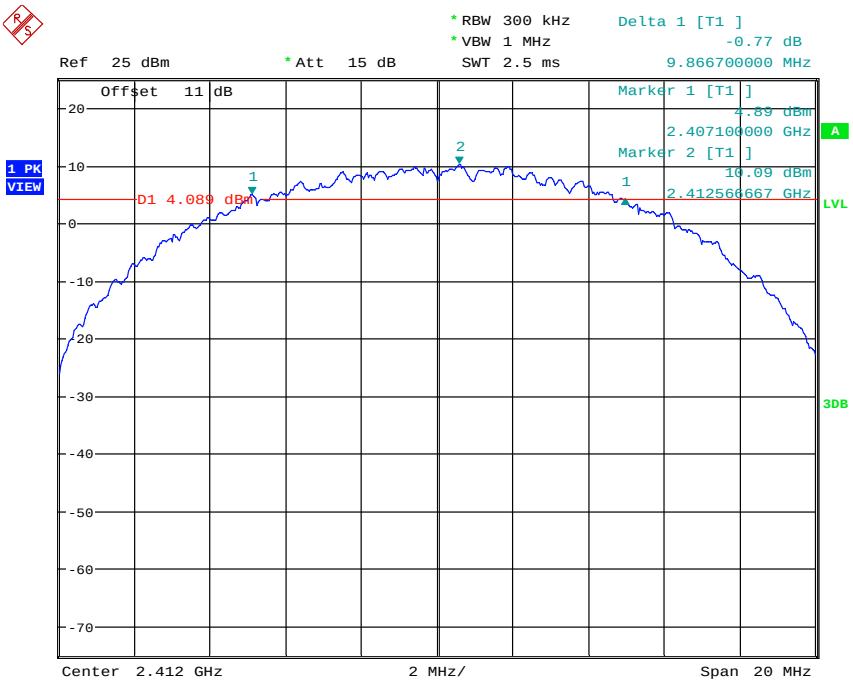
Frequency Range / MHz	Limit
902 –928 2400 – 2483.5 5725 - 5850	- 20 dB

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

3.7 Minimum 6 dB Bandwidth

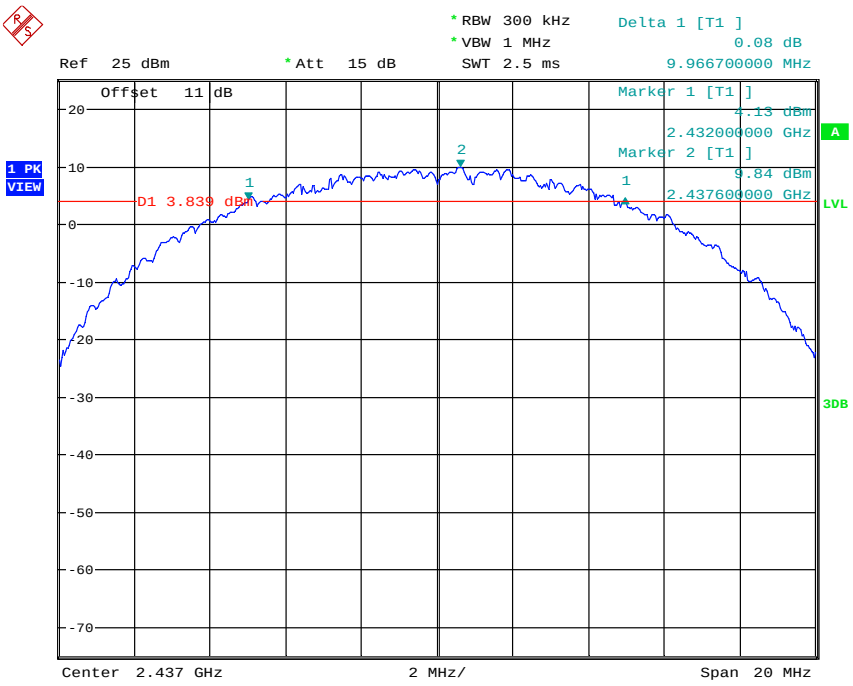
The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.
The 6 dB bandwidth is the frequency difference between the two markers.

Mode A

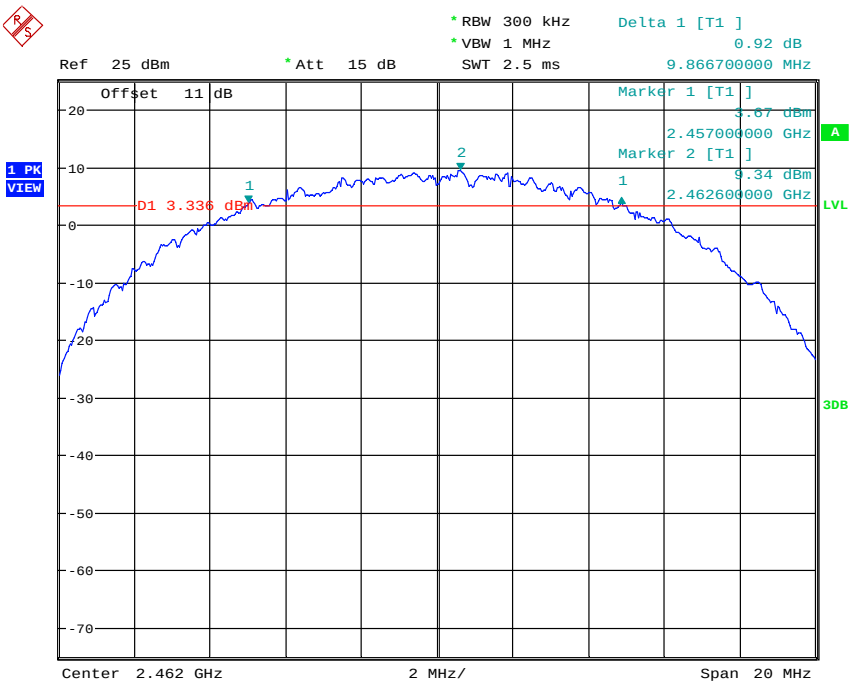


6DB BANDWIDTH 802.11B CH01
Date: 24.MAY.2013 15:05:05

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



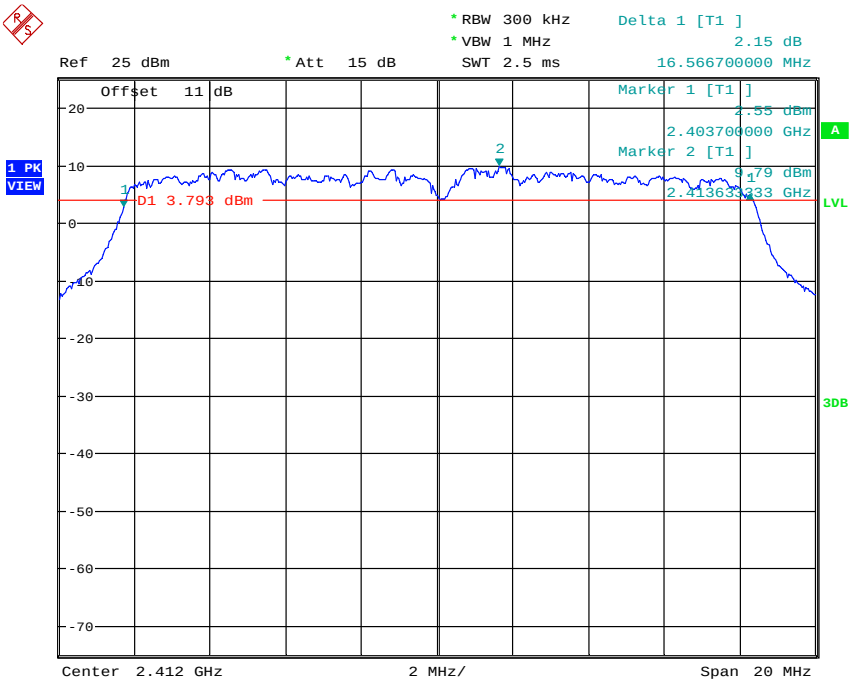
6DB BANDWIDTH 802.11B CH06
Date: 24.MAY.2013 15:05:45



6DB BANDWIDTH 802.11B CH11
Date: 24.MAY.2013 15:06:14

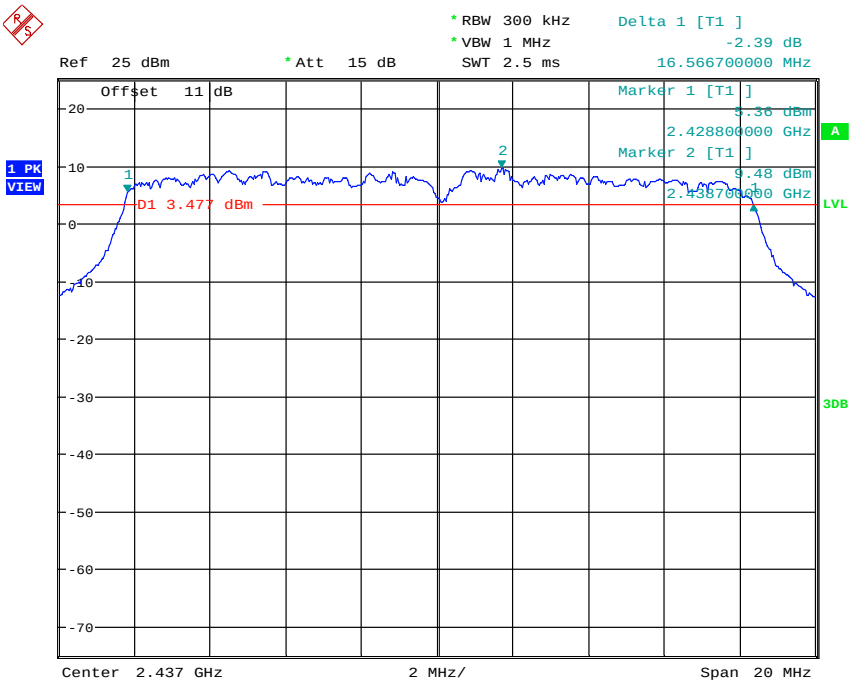
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode B



6DB BANDWIDTH 802.11G CH01

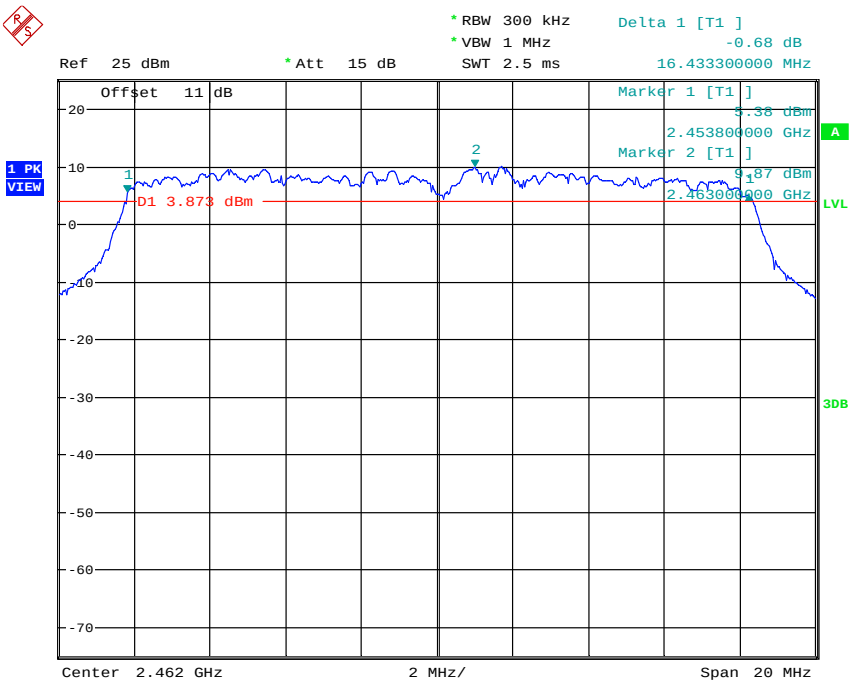
Date: 24.MAY.2013 15:07:10



6DB BANDWIDTH 802.11G CH06

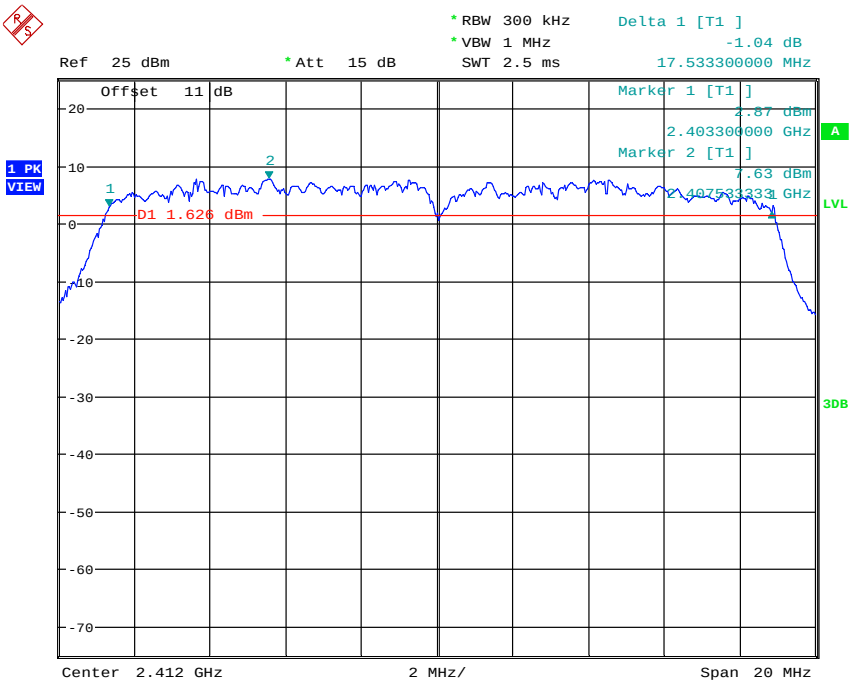
Date: 24.MAY.2013 15:07:48

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



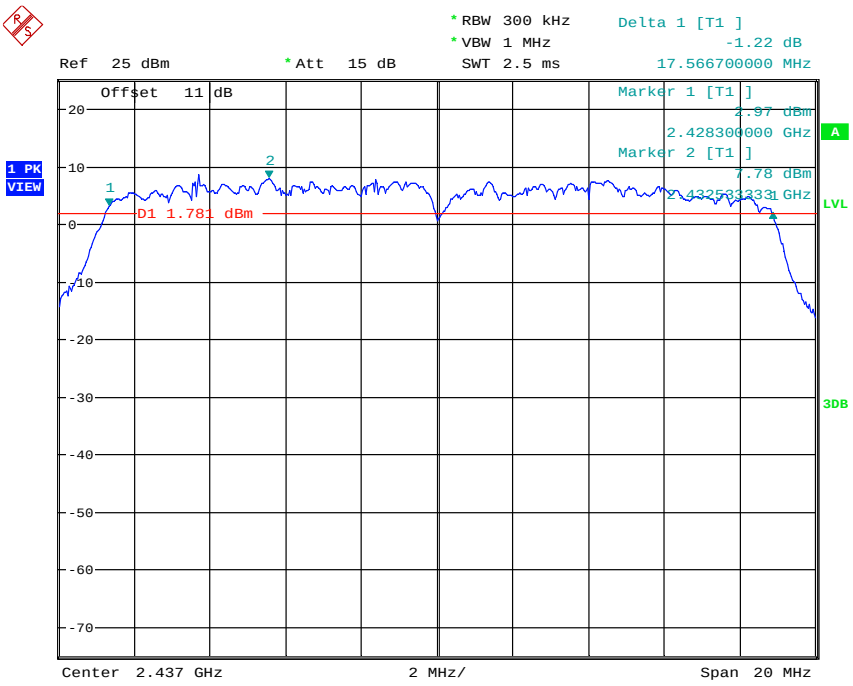
6DB BANDWIDTH 802.11G CH11
Date: 24.MAY.2013 15:08:23

Mode C

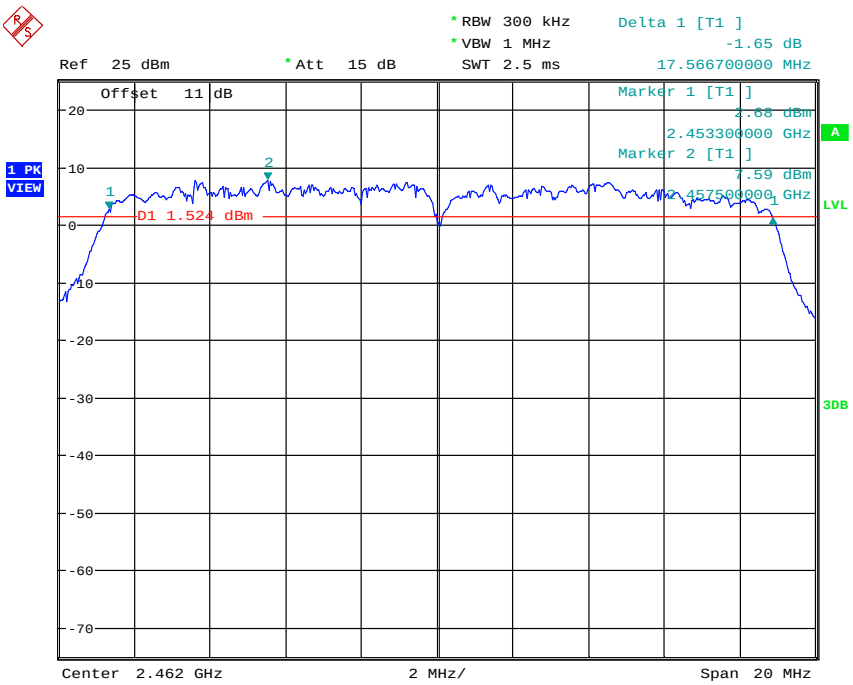


6DB BANDWIDTH 802.11N 20MHZ CH01
Date: 24.MAY.2013 15:09:18

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



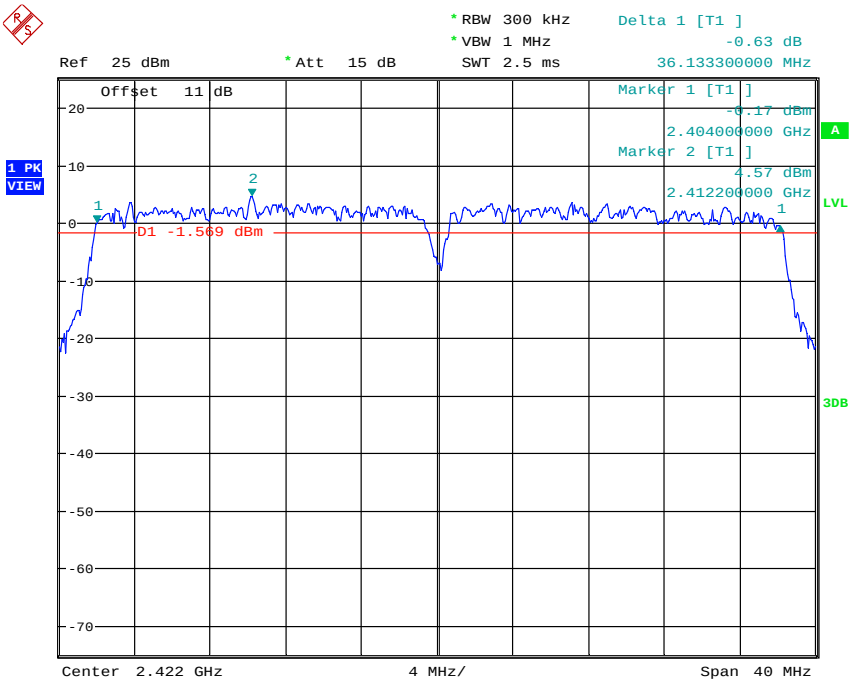
6DB BANDWIDTH 802.11N 20MHZ CH06
Date: 24.MAY.2013 15:10:06



6DB BANDWIDTH 802.11N 20MHZ CH11
Date: 24.MAY.2013 15:11:22

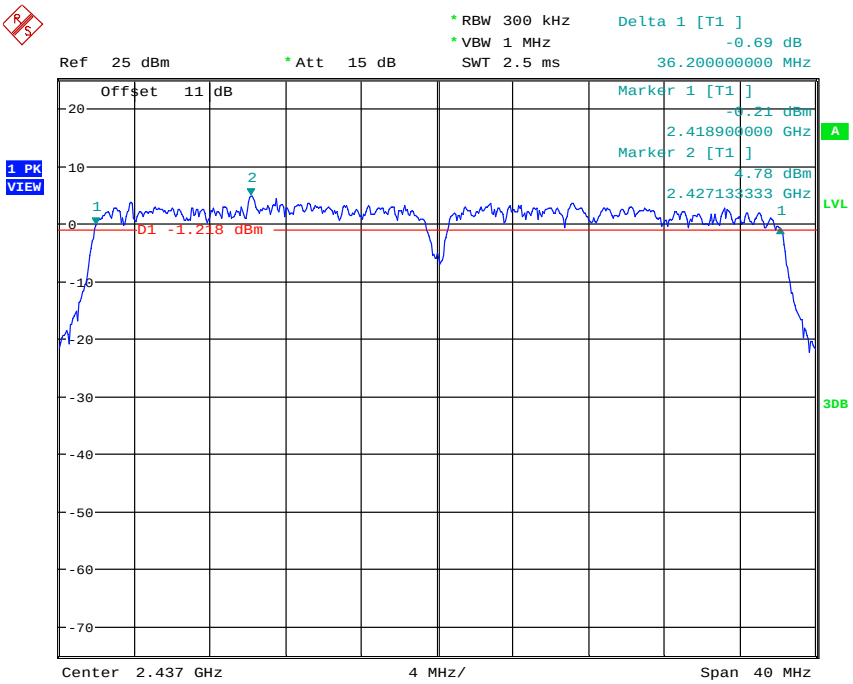
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode D



6DB BANDWIDTH 802.11N 40MHZ CH01

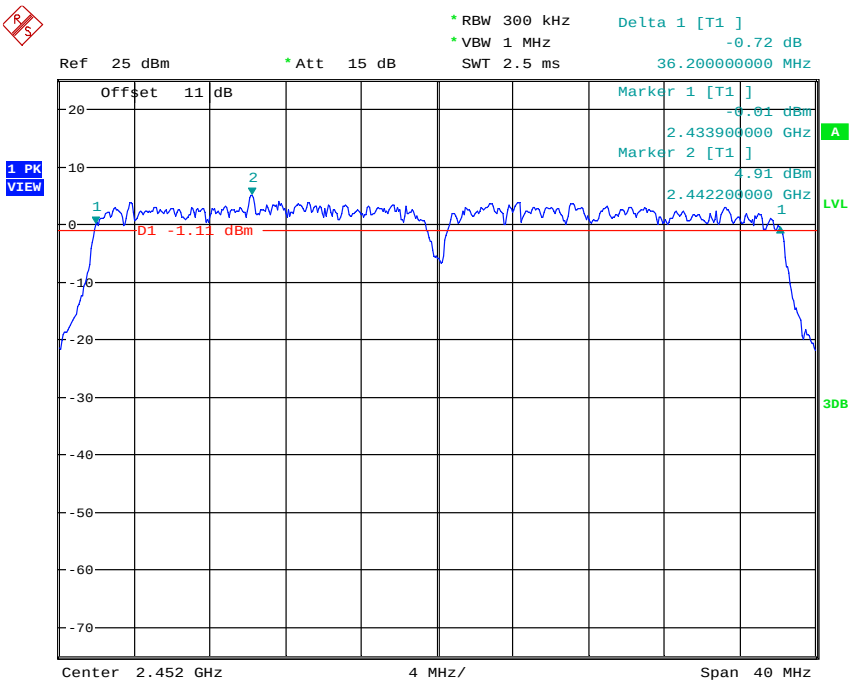
Date: 24.MAY.2013 15:12:57



6DB BANDWIDTH 802.11N 40MHZ CH04

Date: 24.MAY.2013 15:13:33

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



6DB BANDWIDTH 802.11N 40MHZ CH07
Date: 24.MAY.2013 15:14:08

Limits:

Frequency Range MHz	**Limits**
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

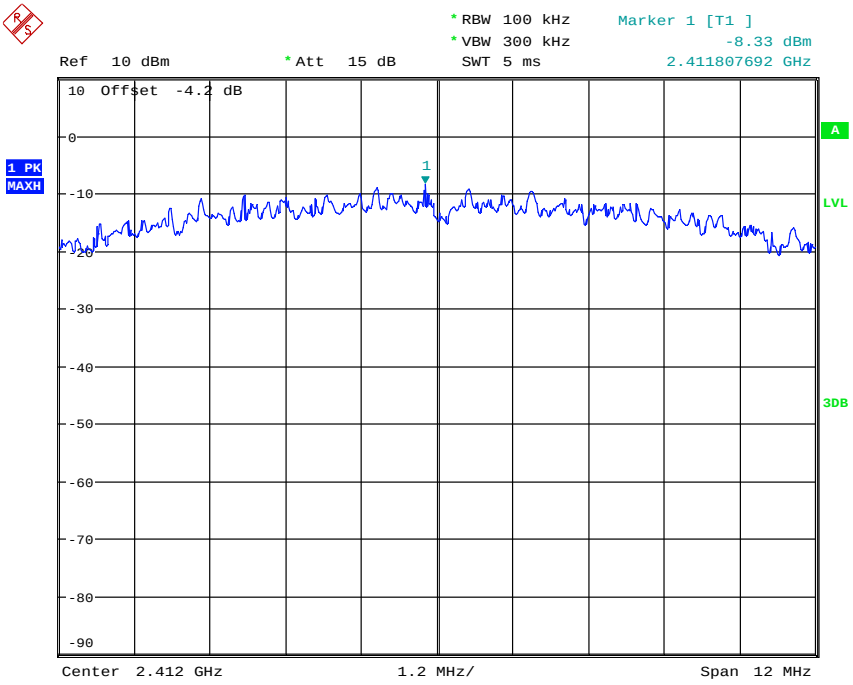
Test equipment used: ETSTW-RE 055, ETSTW-RE 050

3.8 Peak Power Spectral Density

Peak Power Spectral density is a measured at low, middle and high channel.

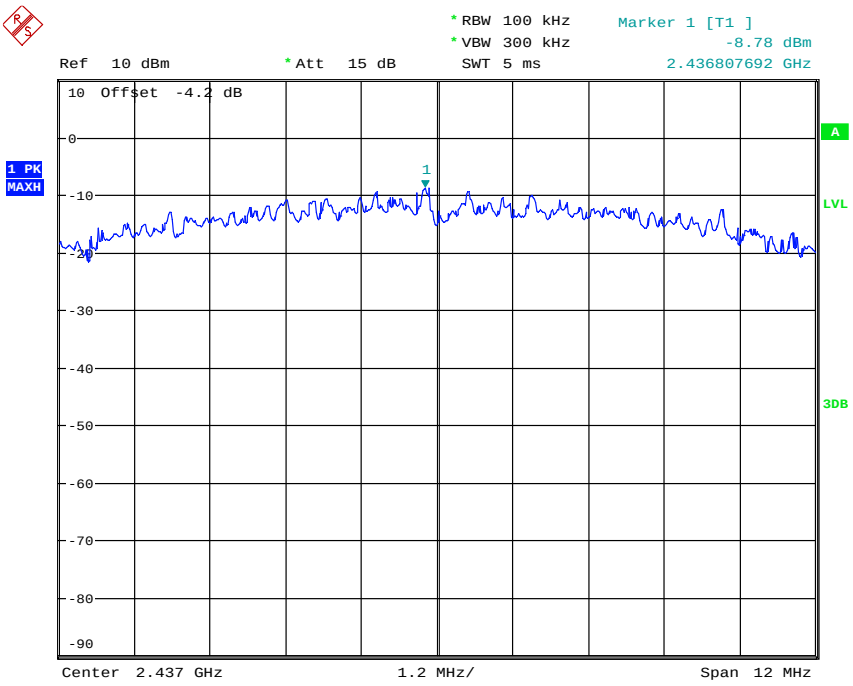
The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

Mode A

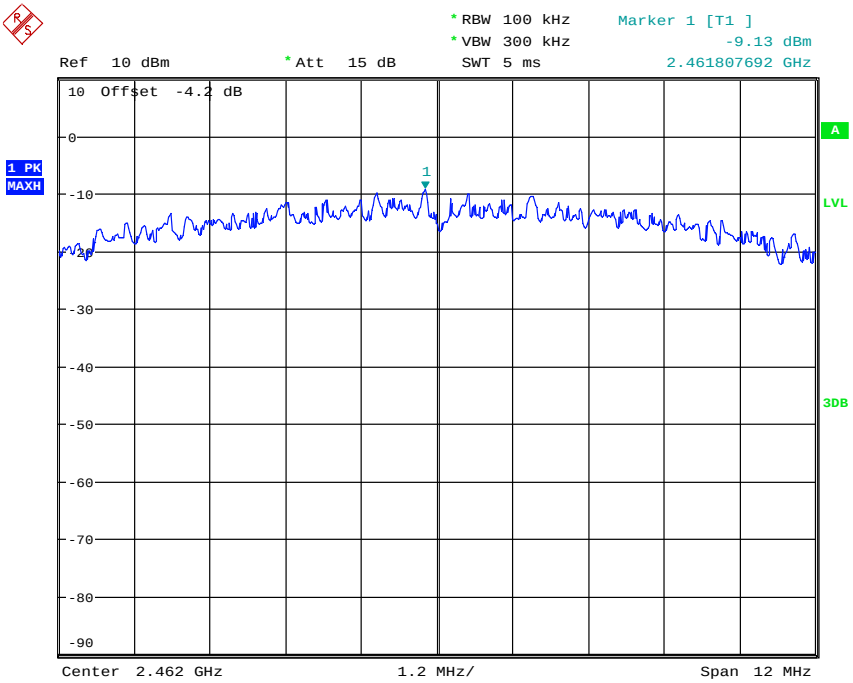


POWER DENSITY 802.11B CH01
Date: 24.MAY.2013 15:05:11

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



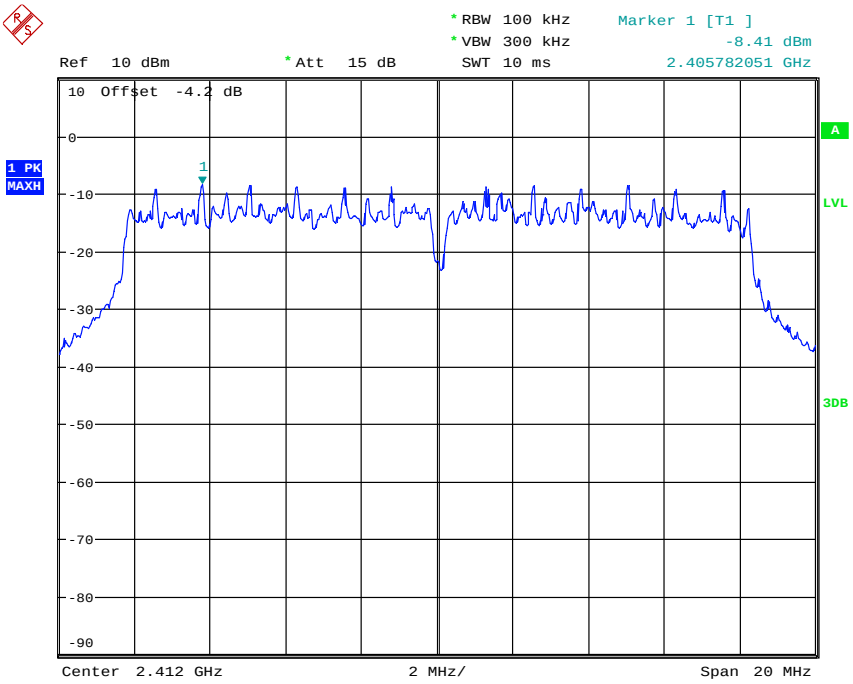
POWER DENSITY 802.11B CH06
Date: 24.MAY.2013 15:05:50



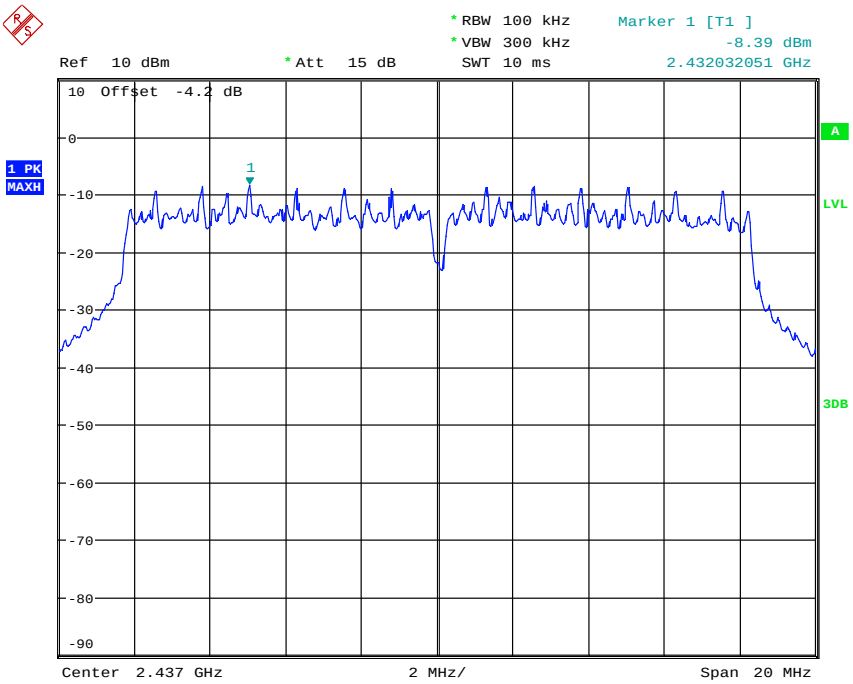
POWER DENSITY 802.11B CH11
Date: 24.MAY.2013 15:06:20

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode B

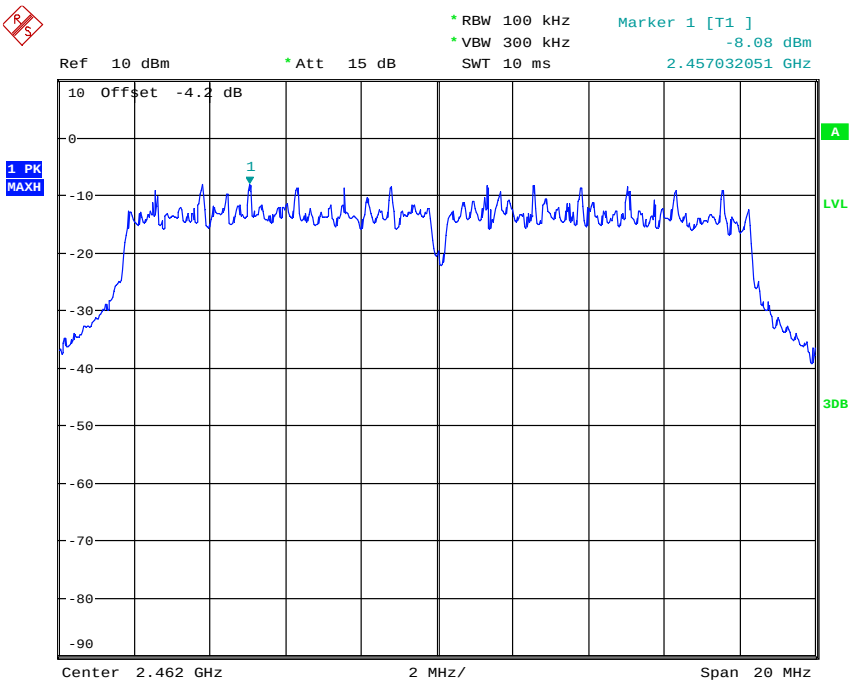


POWER DENSITY 802.11G CH01
Date: 24.MAY.2013 15:07:17



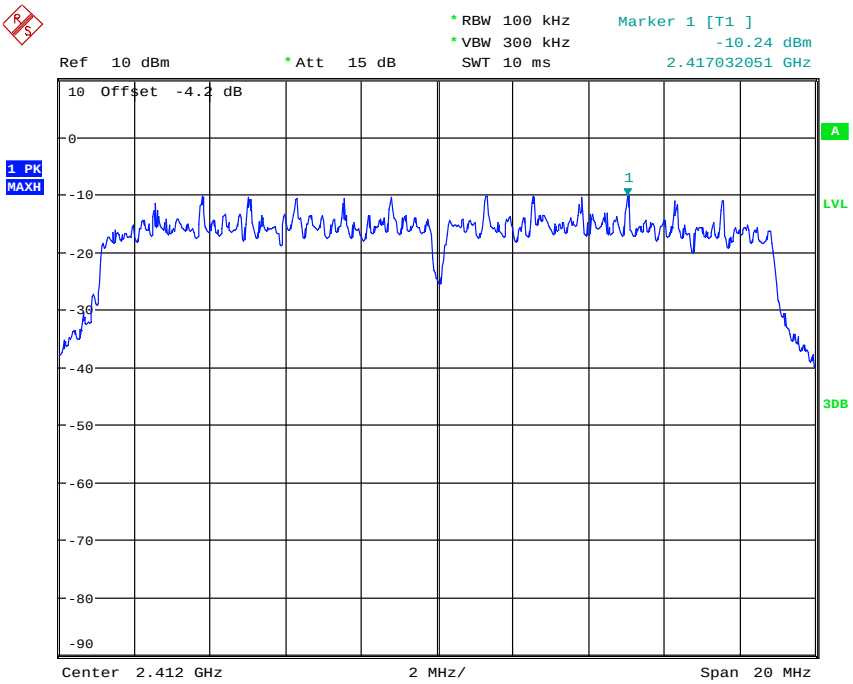
POWER DENSITY 802.11G CH06
Date: 24.MAY.2013 15:07:55

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



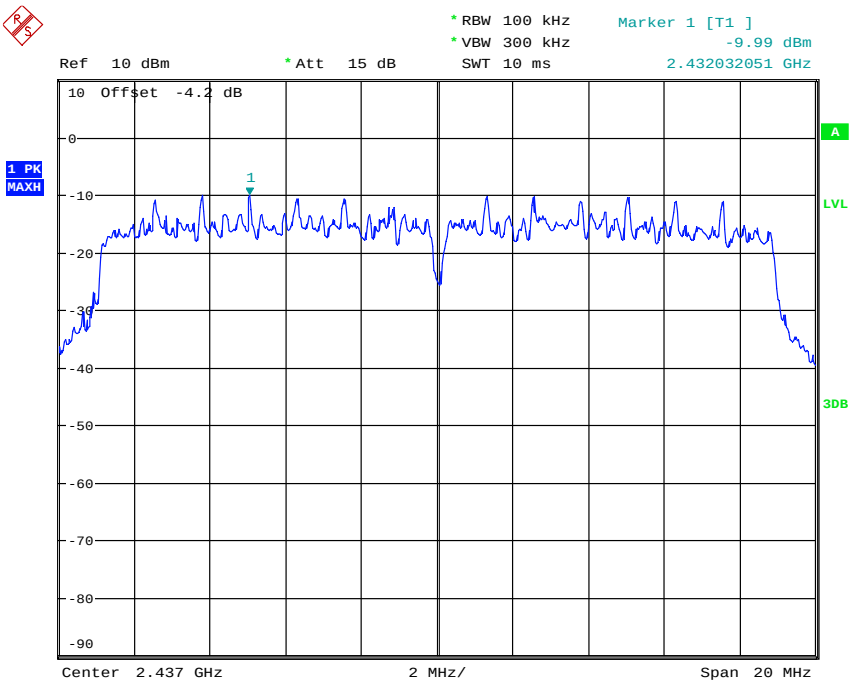
POWER DENSITY 802.11G CH11
Date: 24.MAY.2013 15:08:28

Mode C

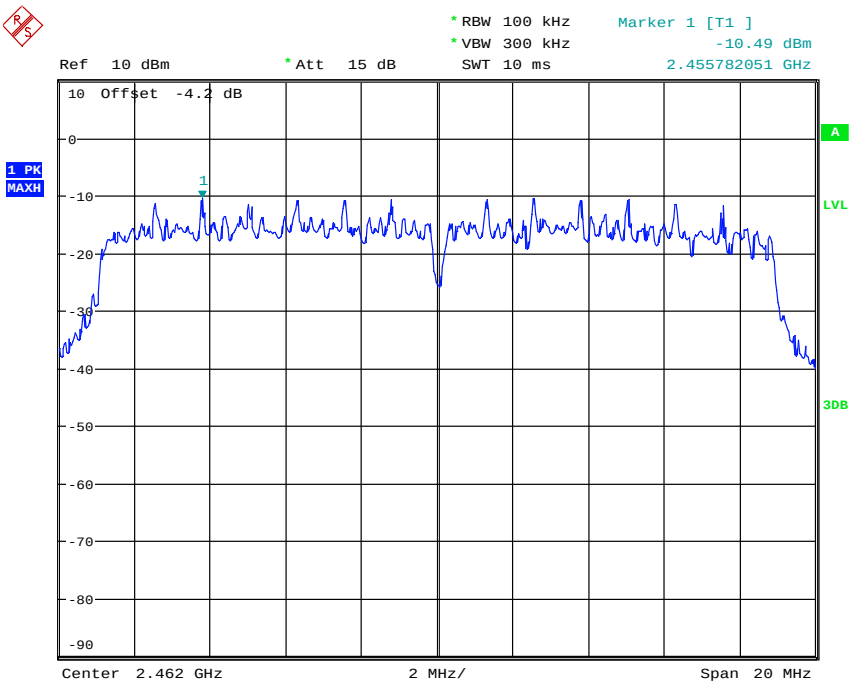


POWER DENSITY 802.11N 20MHZ CH01
Date: 24.MAY.2013 15:09:23

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



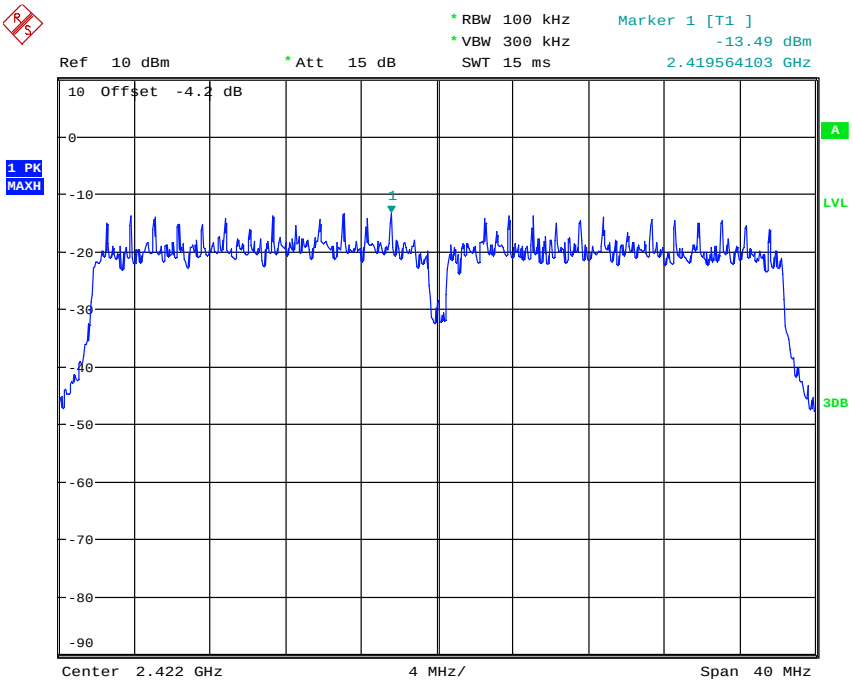
POWER DENSITY 802.11N 20MHZ CH06
Date: 24.MAY.2013 15:10:12



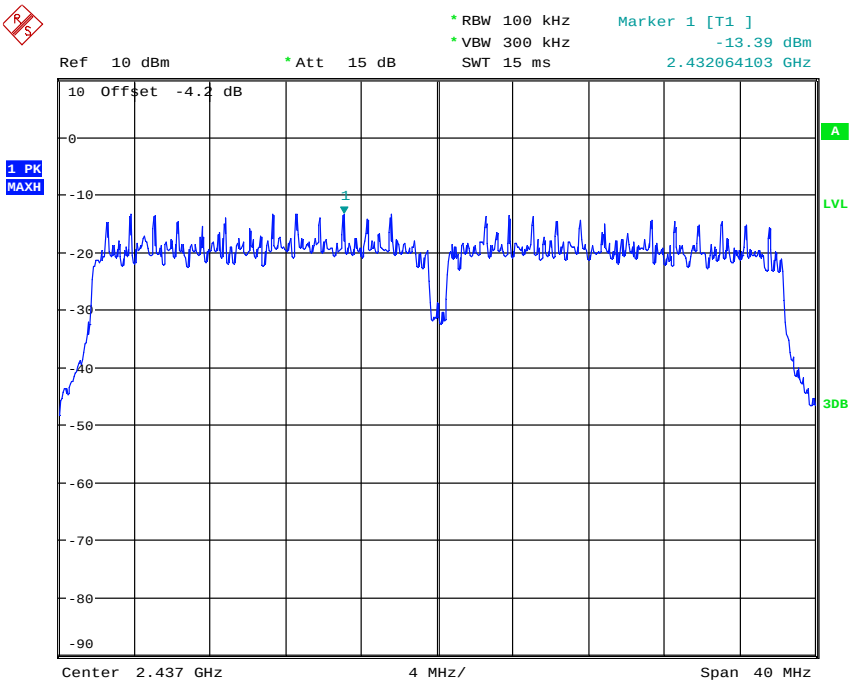
POWER DENSITY 802.11N 20MHZ CH11
Date: 24.MAY.2013 15:11:27

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Mode D

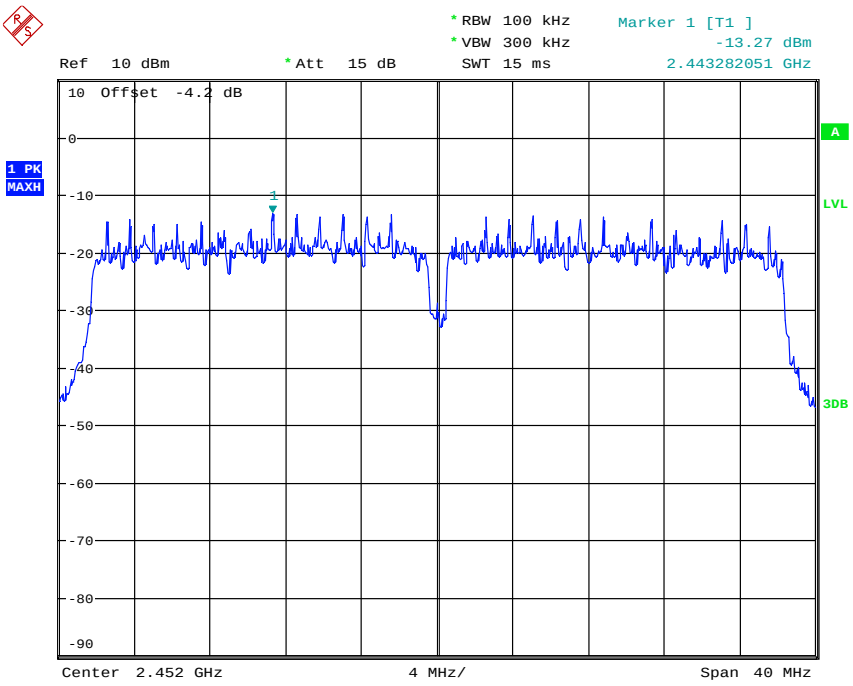


POWER DENSITY 802.11N 40MHZ CH01
Date: 24.MAY.2013 15:13:02



POWER DENSITY 802.11N 40MHZ CH04
Date: 24.MAY.2013 15:13:39

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



POWER DENSITY 802.11N 40MHZ CH07
Date: 24.MAY.2013 15:14:14

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483.5	8
5725-5850	8

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

3.9 Radiated Emission from Digital Part

FCC Rule: 15.109

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 (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

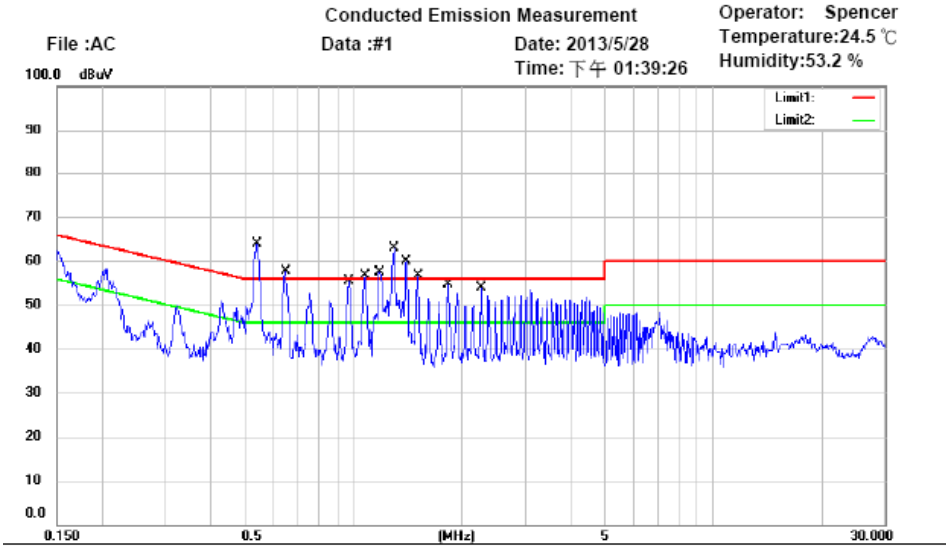
Test equipment used: ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 030 ETSTW-RE 111

Explanation: The test results are listed in the separated test report no.: W6M21305-13196-P-15B.

3.9 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.



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21305-13196
Power : 120VAC
M/N: TAN1
Test Mode : USB
Note :

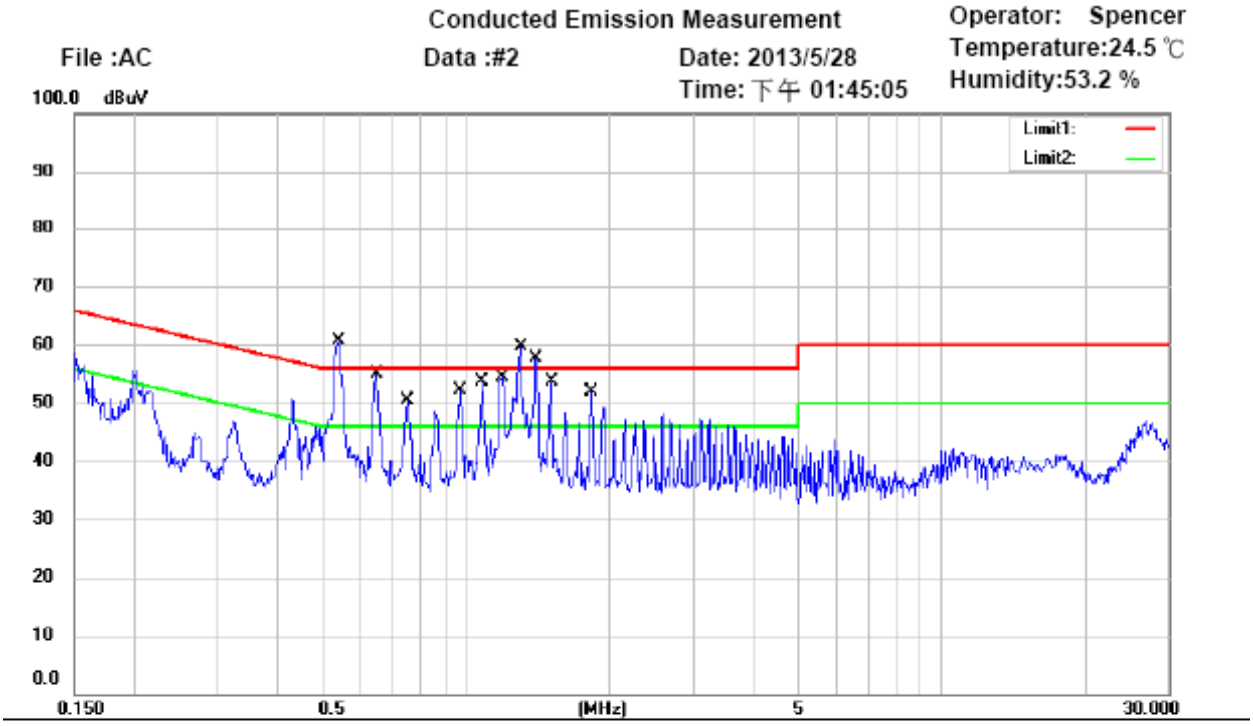
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5382	40.63	QP	10.12	50.75	56.00	-5.25	
	0.5382	22.78	AVG	10.12	32.90	46.00	-13.10	
	0.6462	34.60	QP	10.13	44.73	56.00	-11.27	
	0.6462	19.54	AVG	10.13	29.67	46.00	-16.33	
	0.9680	32.61	QP	10.14	42.75	56.00	-13.25	
	0.9680	18.93	AVG	10.14	29.07	46.00	-16.93	
	1.0782	33.45	QP	10.14	43.59	56.00	-12.41	
	1.0782	20.28	AVG	10.14	30.42	46.00	-15.58	
	1.1795	29.71	QP	10.15	39.86	56.00	-16.14	
	1.1795	15.00	AVG	10.15	25.15	46.00	-20.85	
	1.2920	36.54	QP	10.15	46.69	56.00	-9.31	
	1.2920	17.21	AVG	10.15	27.36	46.00	-18.64	
	1.4000	36.47	QP	10.16	46.63	56.00	-9.37	
	1.4000	21.25	AVG	10.16	31.41	46.00	-14.59	
	1.5080	33.50	QP	10.16	43.66	56.00	-12.34	
	1.5080	19.44	AVG	10.16	29.60	46.00	-16.40	

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP) Phase: N
EUT : W6M21305-13196 Power : 110VAC
M/N: TAN1
Test Mode : USB
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	1.8343	23.79	QP	10.17	33.96	56.00	-22.04	
	1.8343	8.20	AVG	10.17	18.37	46.00	-27.63	
	2.2573	28.93	QP	10.20	39.13	56.00	-16.87	
	2.2573	19.31	AVG	10.20	29.51	46.00	-16.49	

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21305-13196
Power : 120VAC
M/N: TAN1
Test Mode : USB
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5404	37.19	QP	10.12	47.31	56.00	-8.69	
	0.5404	19.69	AVG	10.12	29.81	46.00	-16.19	
	0.6462	32.29	QP	10.13	42.42	56.00	-13.58	
	0.6462	14.66	AVG	10.13	24.79	46.00	-21.21	
	0.7497	25.27	QP	10.13	35.40	56.00	-20.60	
	0.7497	11.03	AVG	10.13	21.16	46.00	-24.84	
	0.9657	28.51	QP	10.14	38.65	56.00	-17.35	
	0.9657	12.10	AVG	10.14	22.24	46.00	-23.76	
	1.0782	30.44	QP	10.14	40.58	56.00	-15.42	
	1.0782	14.58	AVG	10.14	24.72	46.00	-21.28	
	1.1885	23.84	QP	10.15	33.99	56.00	-22.01	
	1.1885	7.25	AVG	10.15	17.40	46.00	-28.60	
	1.2965	29.47	QP	10.15	39.62	56.00	-16.38	
	1.2965	8.13	AVG	10.15	18.28	46.00	-27.72	
	1.3977	34.40	QP	10.16	44.56	56.00	-11.44	
	1.3977	18.02	AVG	10.16	28.18	46.00	-17.82	

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP) Phase: L1
EUT : W6M21305-13196 Power : 110VAC
M/N: TAN1
Test Mode : USB
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	1.5058	31.49	QP	10.17	41.66	56.00	-14.34	
	1.5058	15.63	AVG	10.17	25.80	46.00	-20.20	
	1.8298	28.16	QP	10.18	38.34	56.00	-17.66	
	1.8298	13.78	AVG	10.18	23.96	46.00	-22.04	

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 = ±1.60 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.

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 004, ETSTW-CE 006, ETSTW-RE 045

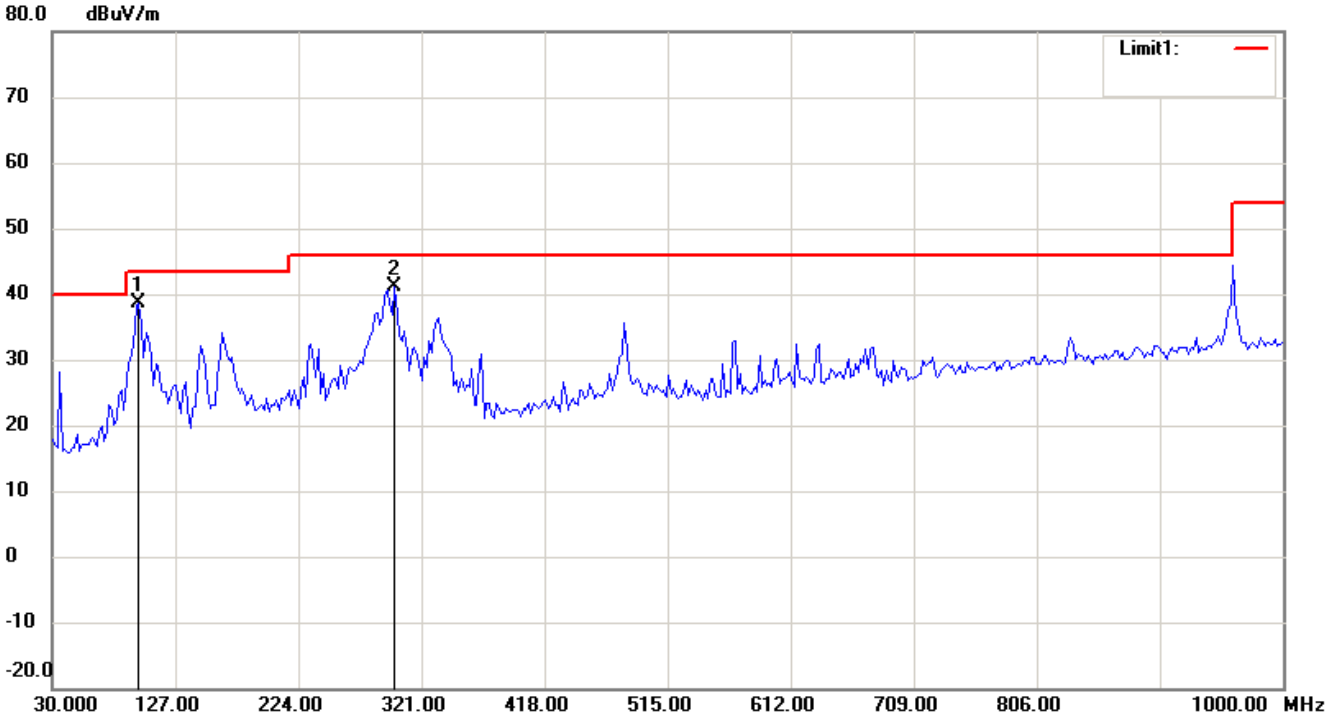
Appendix

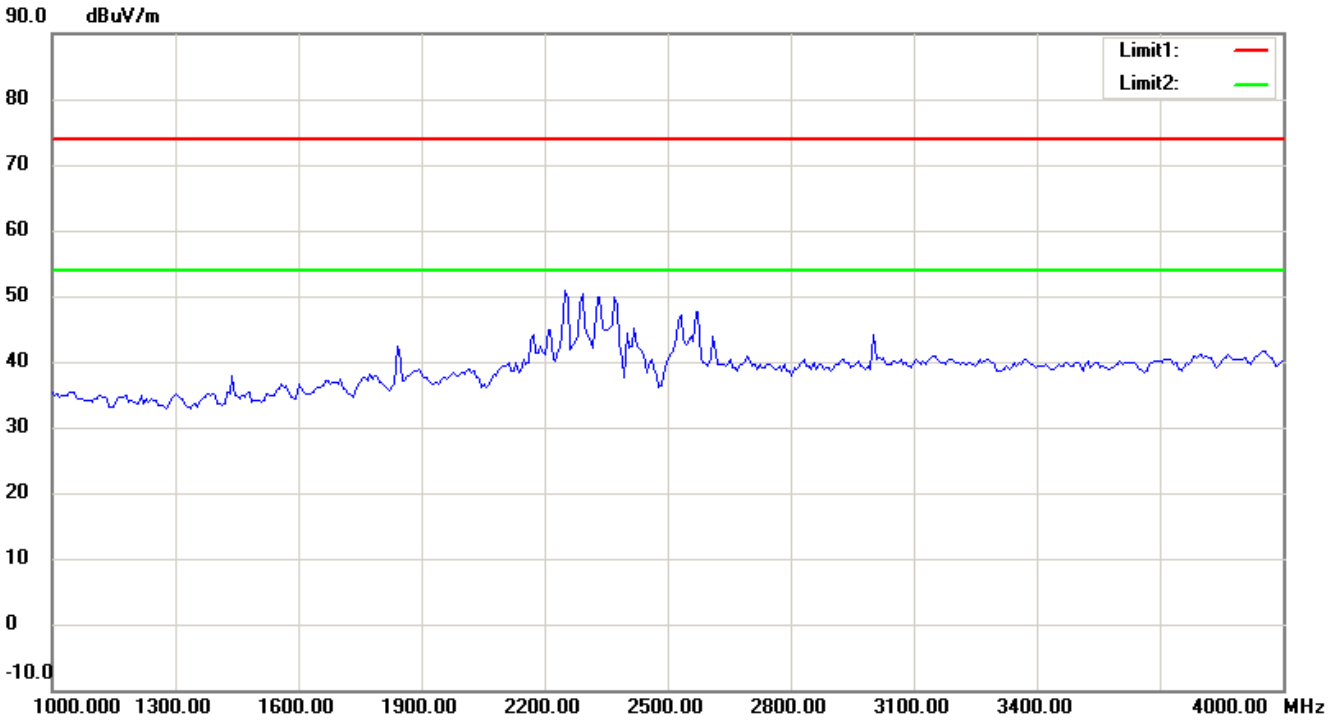
Measurement diagrams

Spurious Emissions radiated

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Radiated Emission-Transmitter
802.11b_CH1
Antenna Polarization H

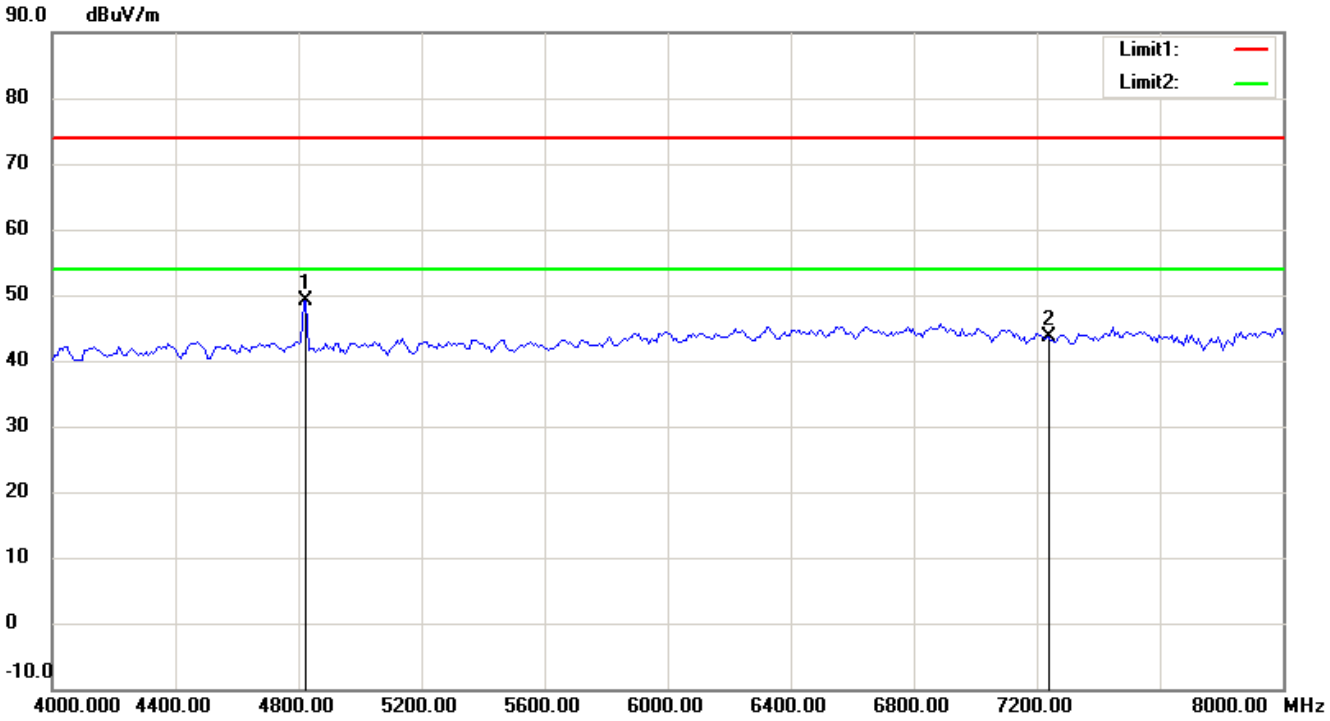


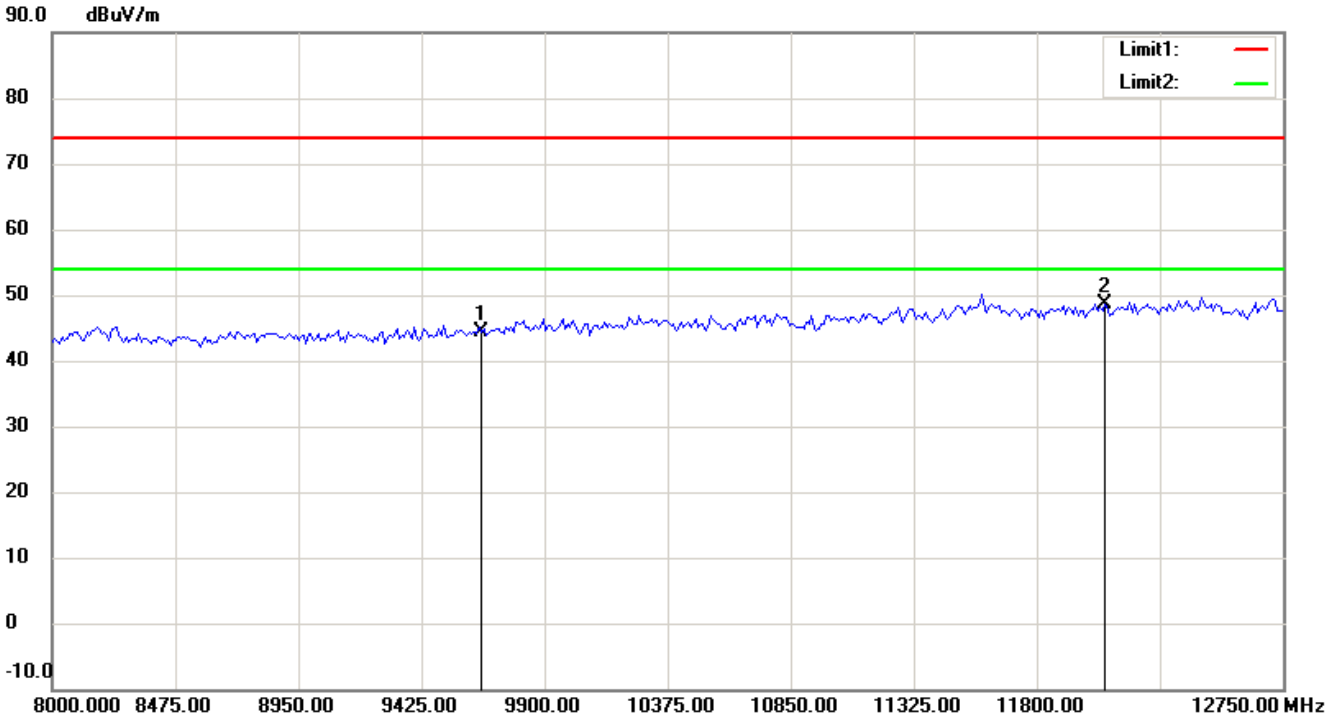


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

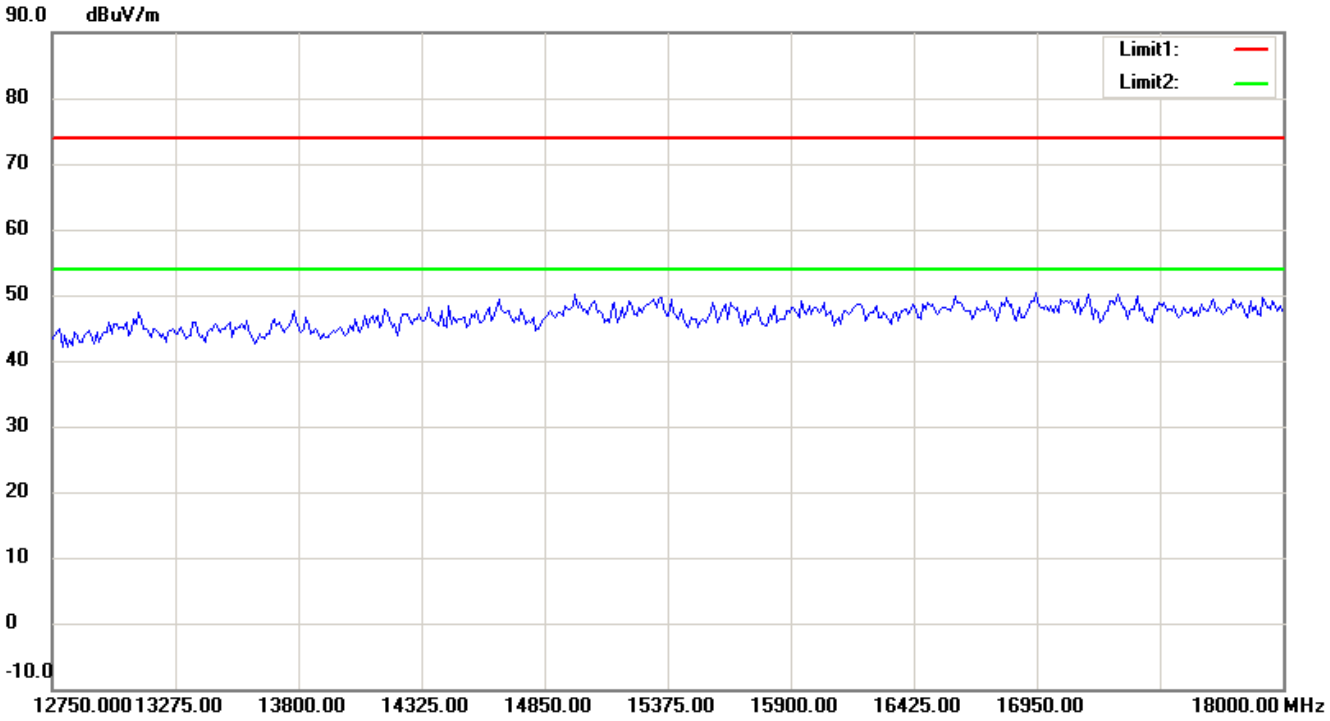


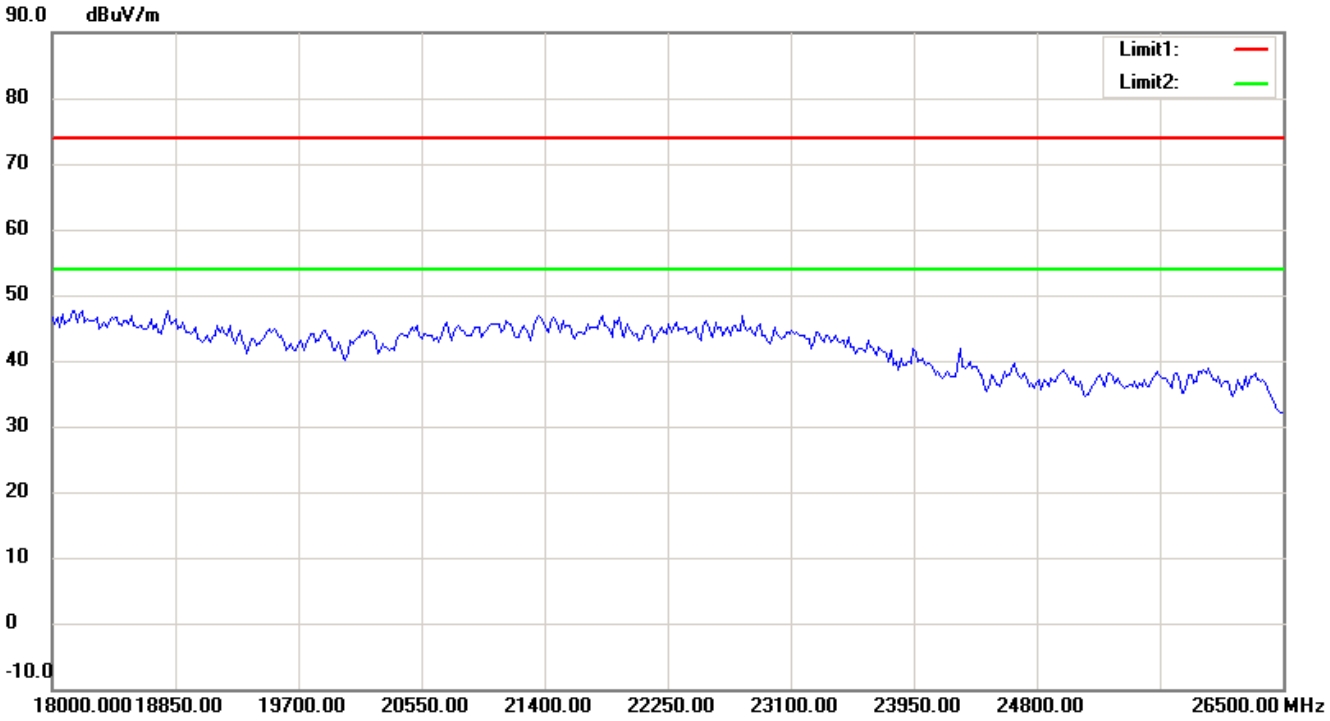


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



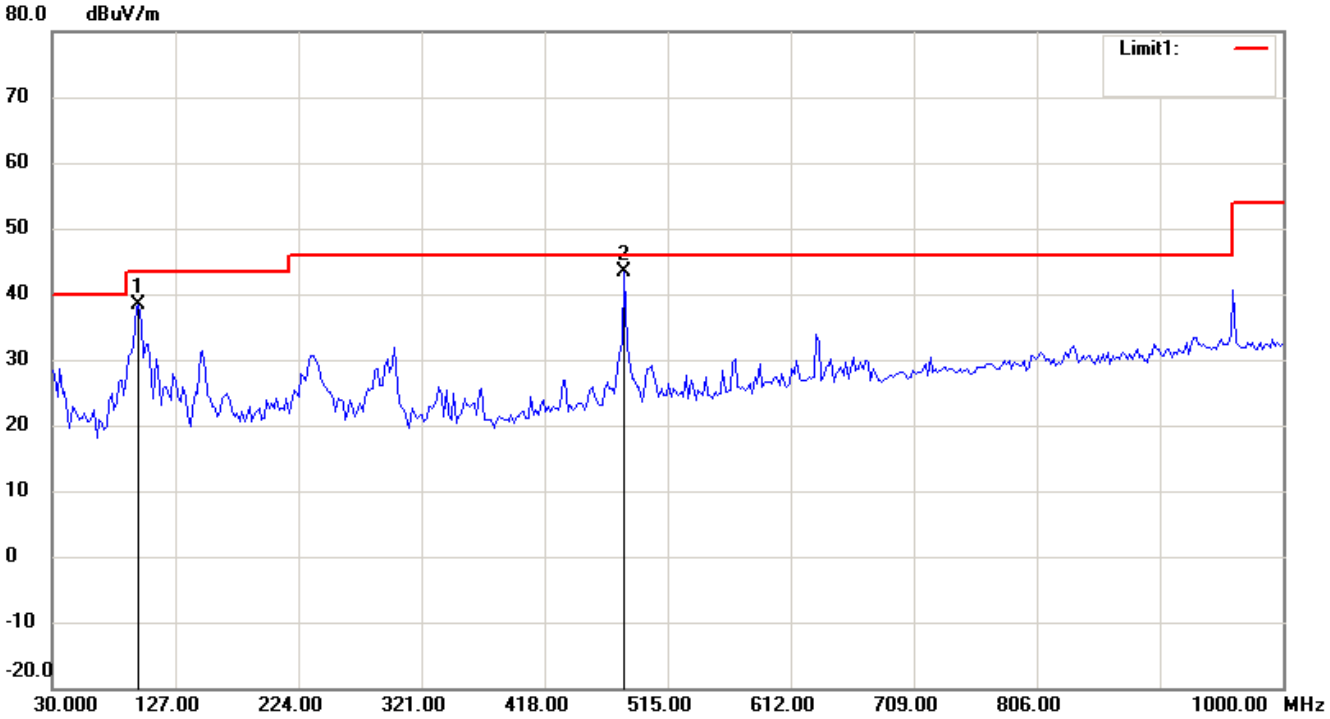


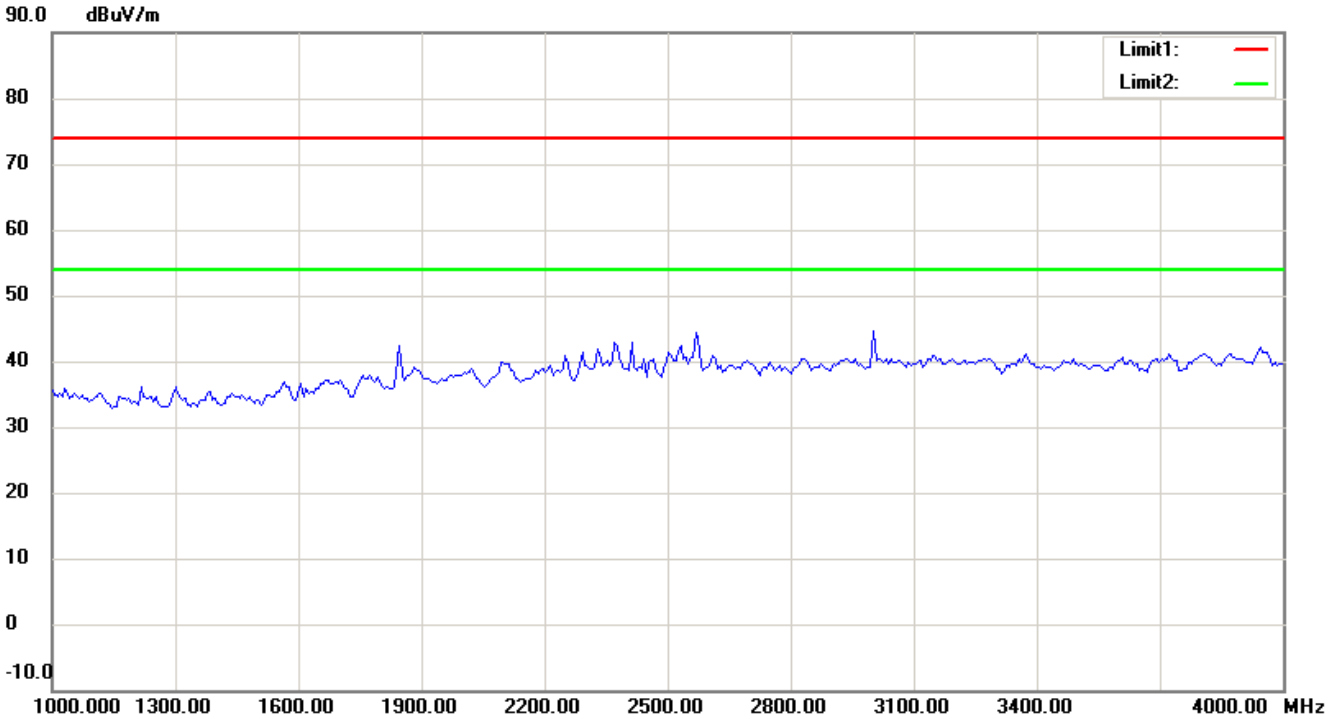
Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V

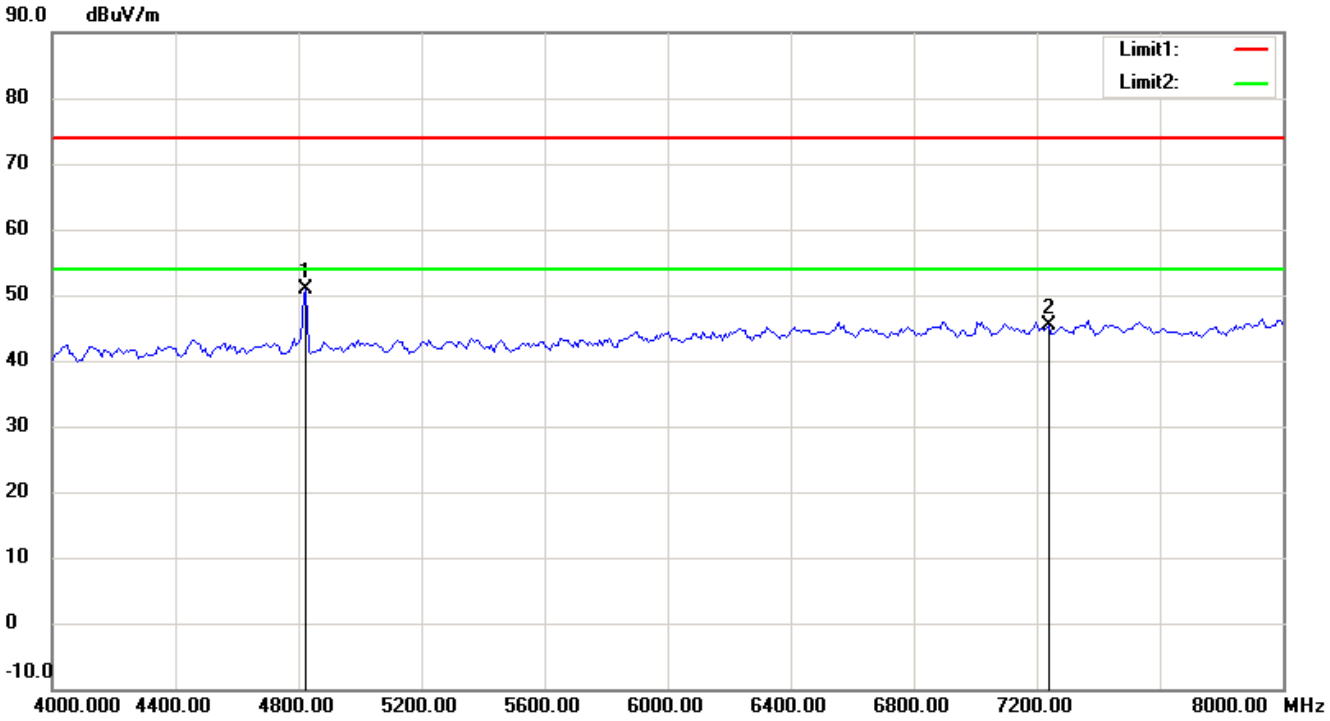


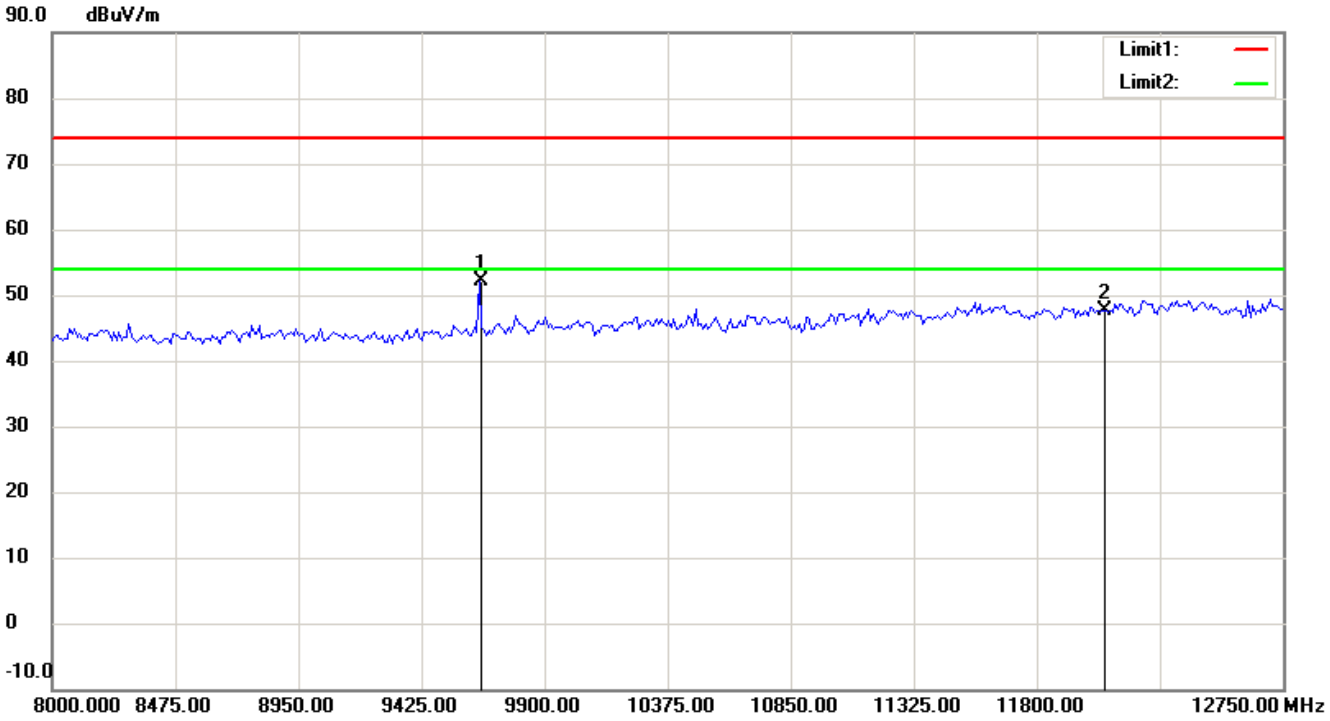


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

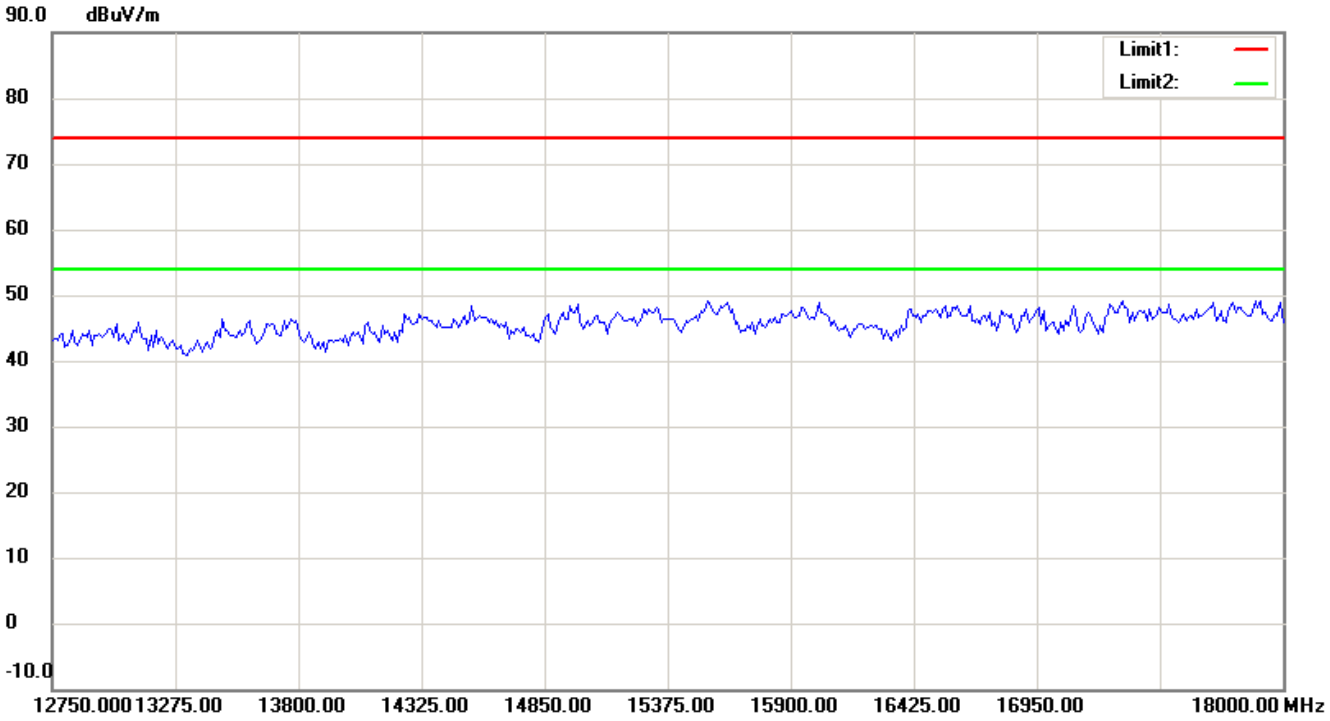


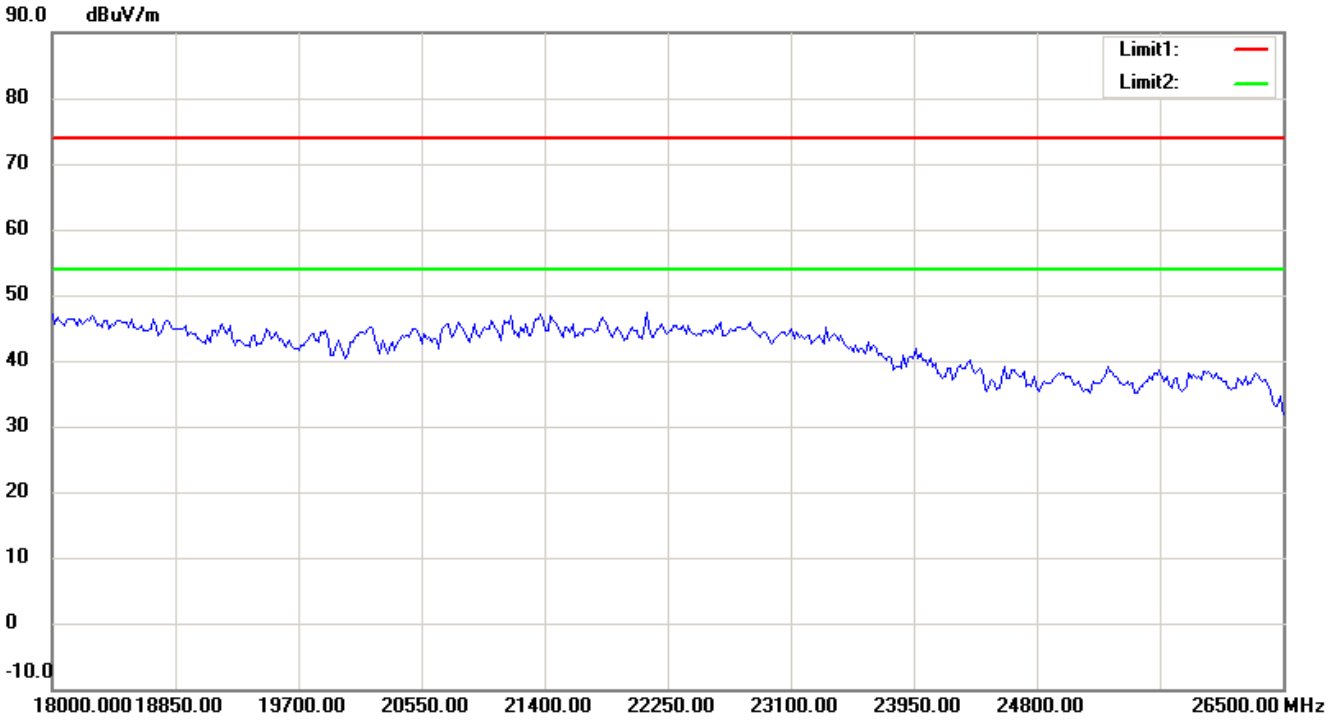


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



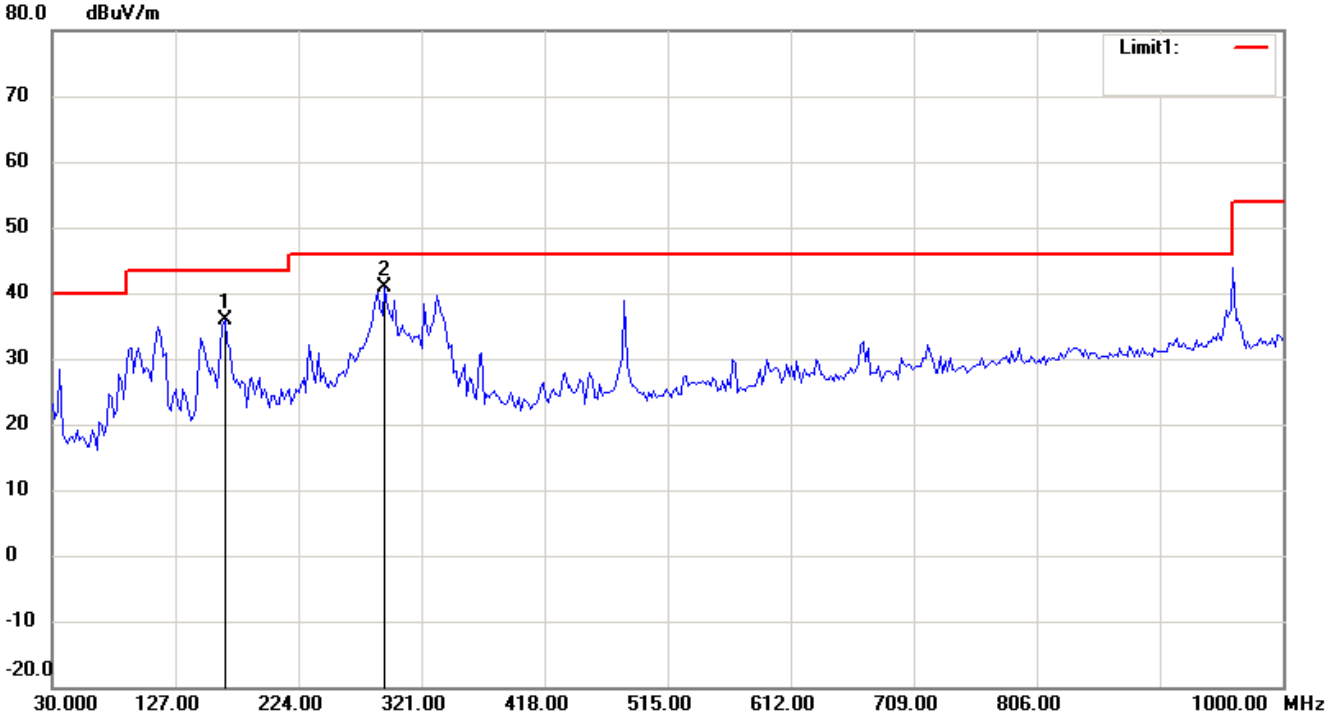


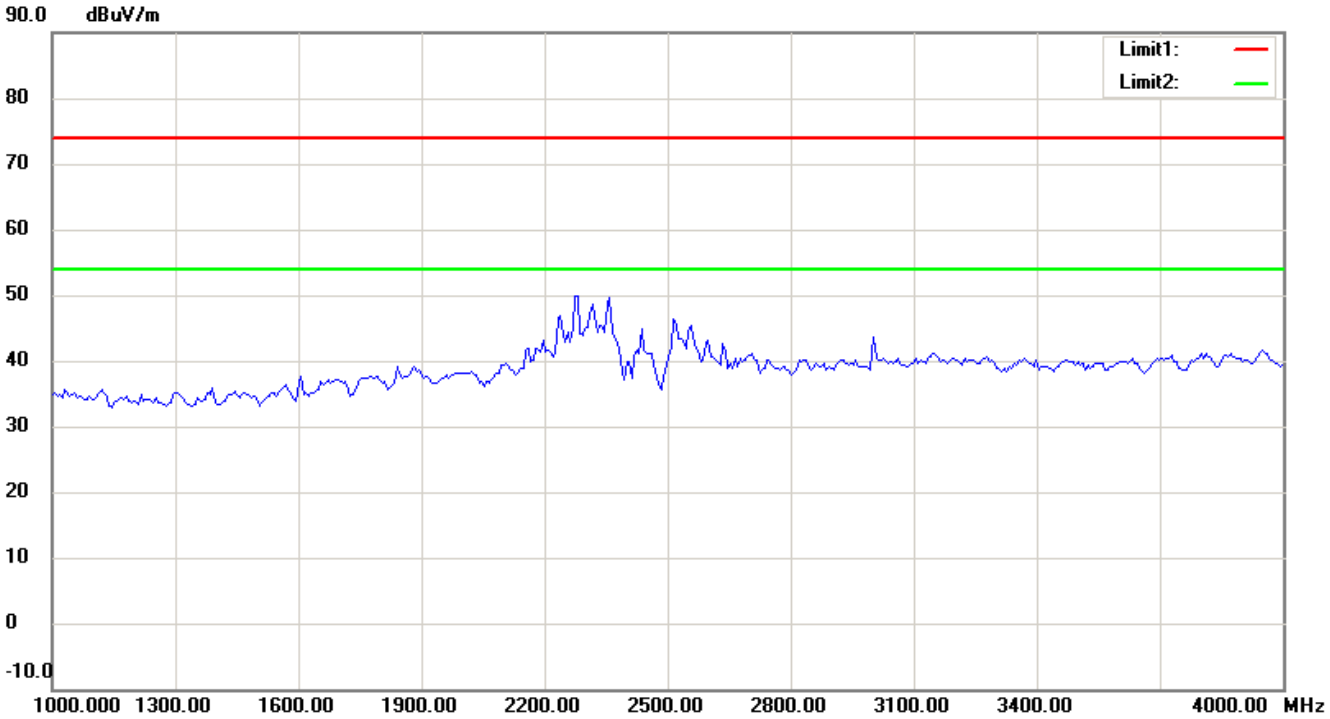
Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11b_CH6
Antenna Polarization H

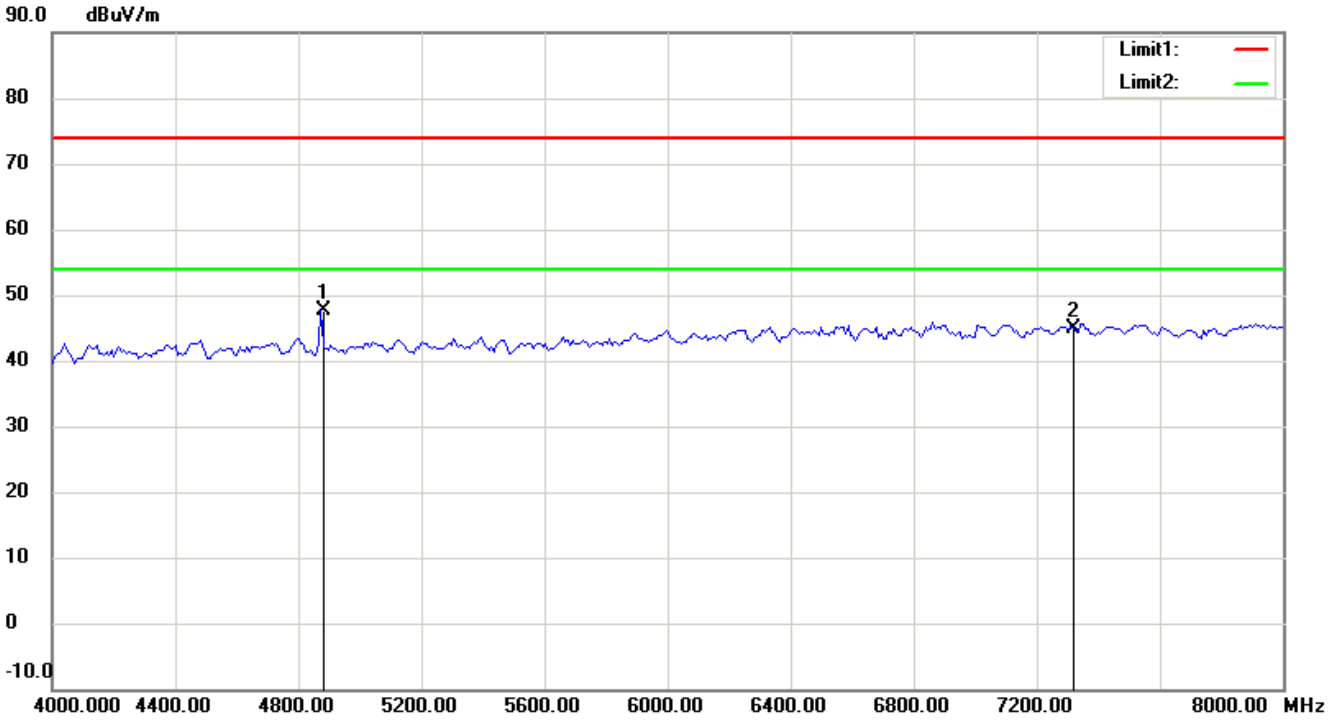


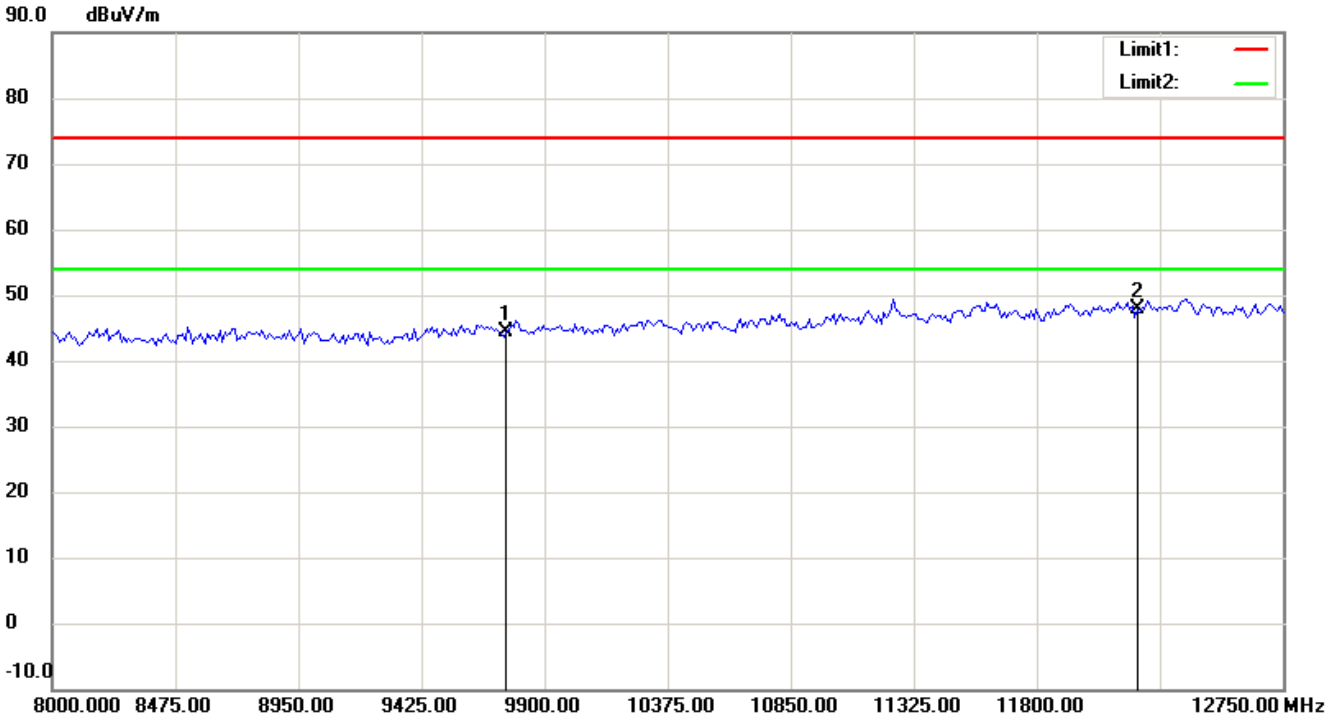


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

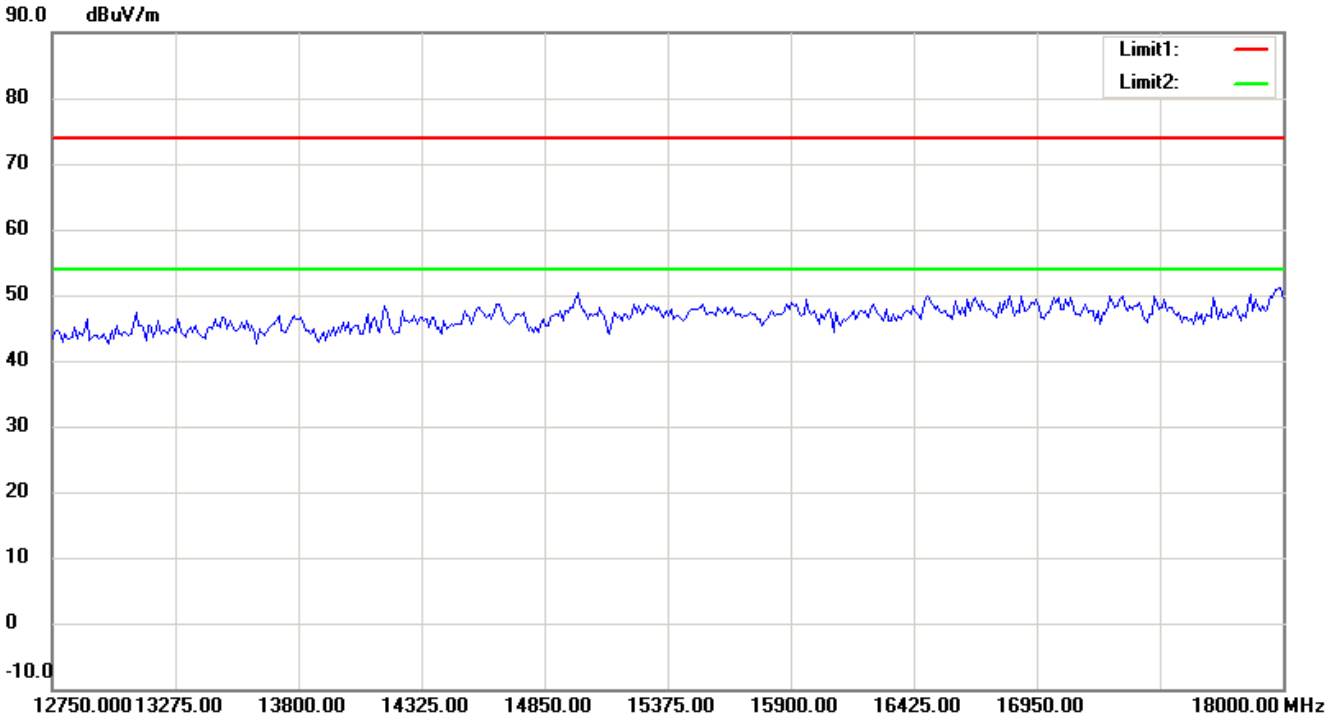


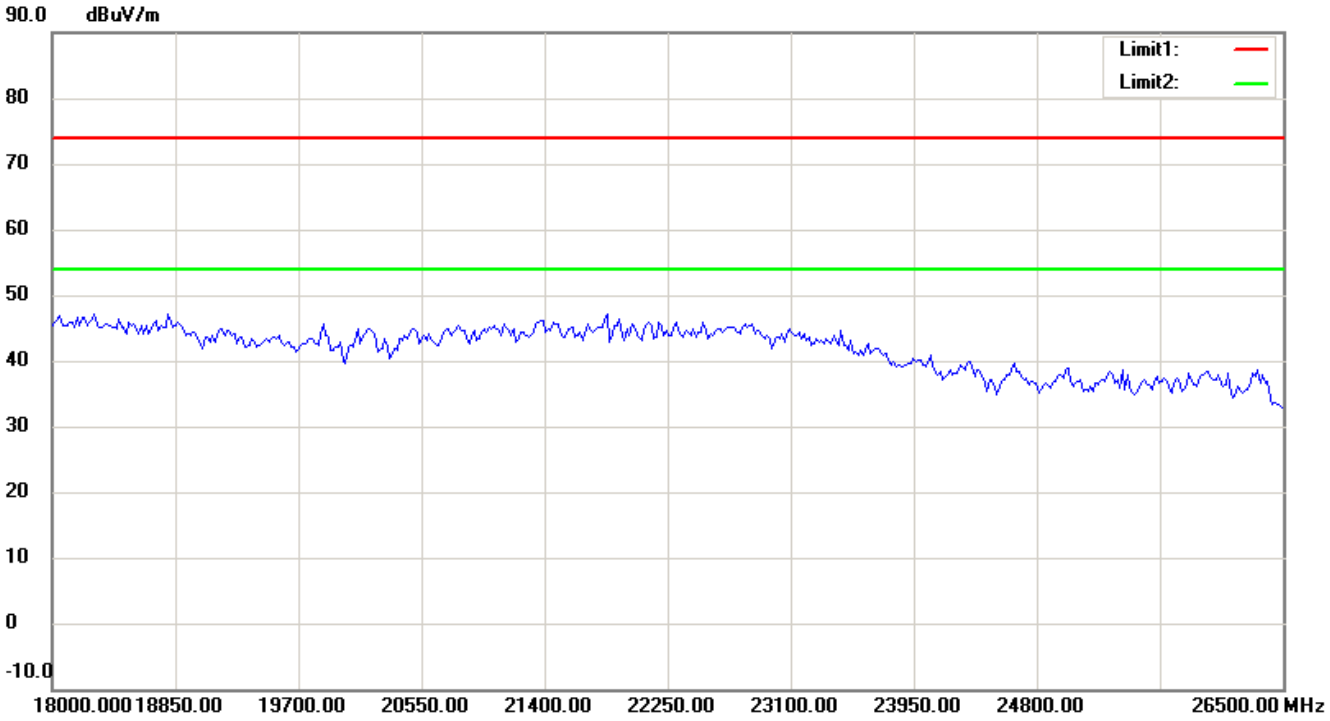


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



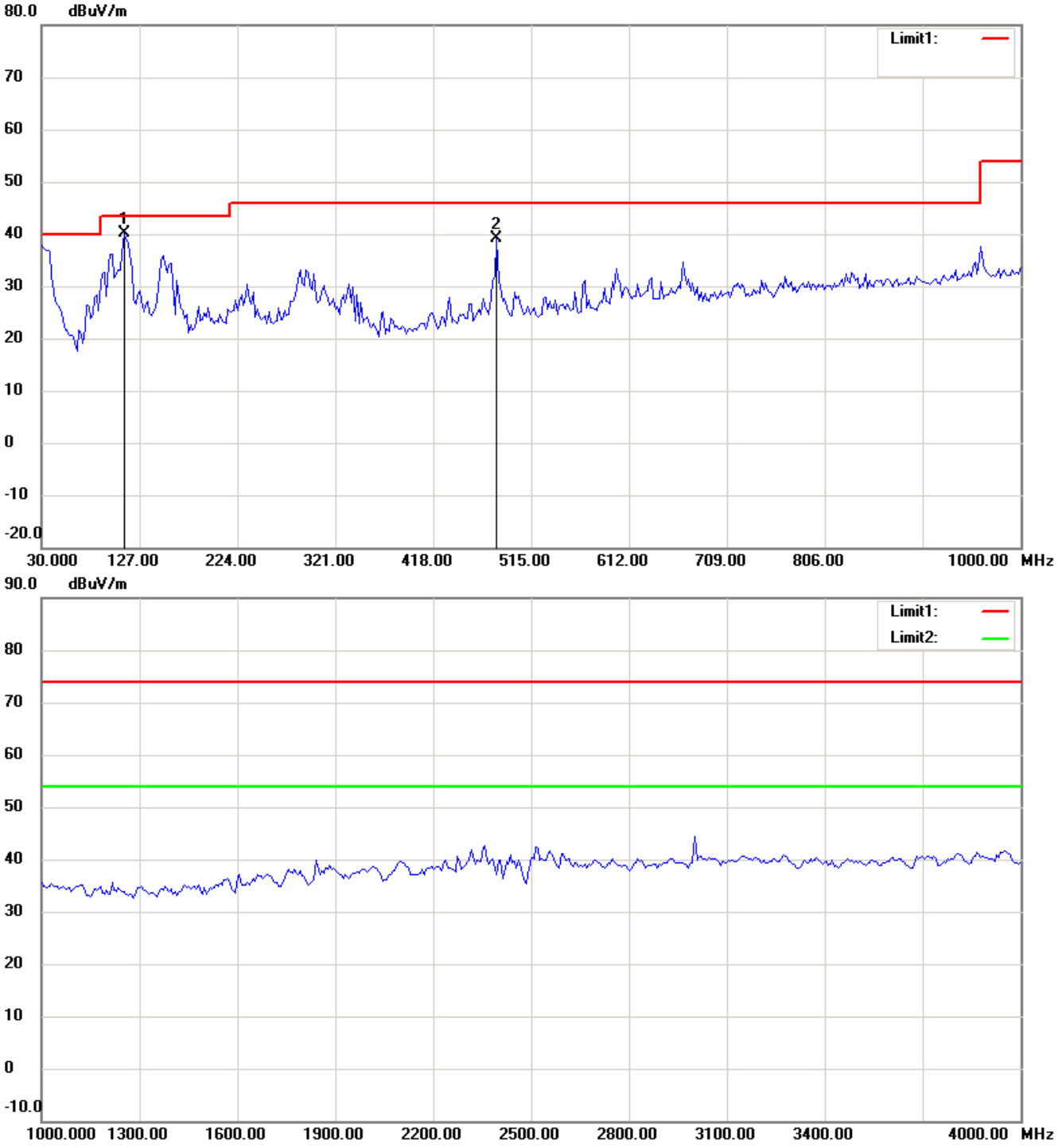


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

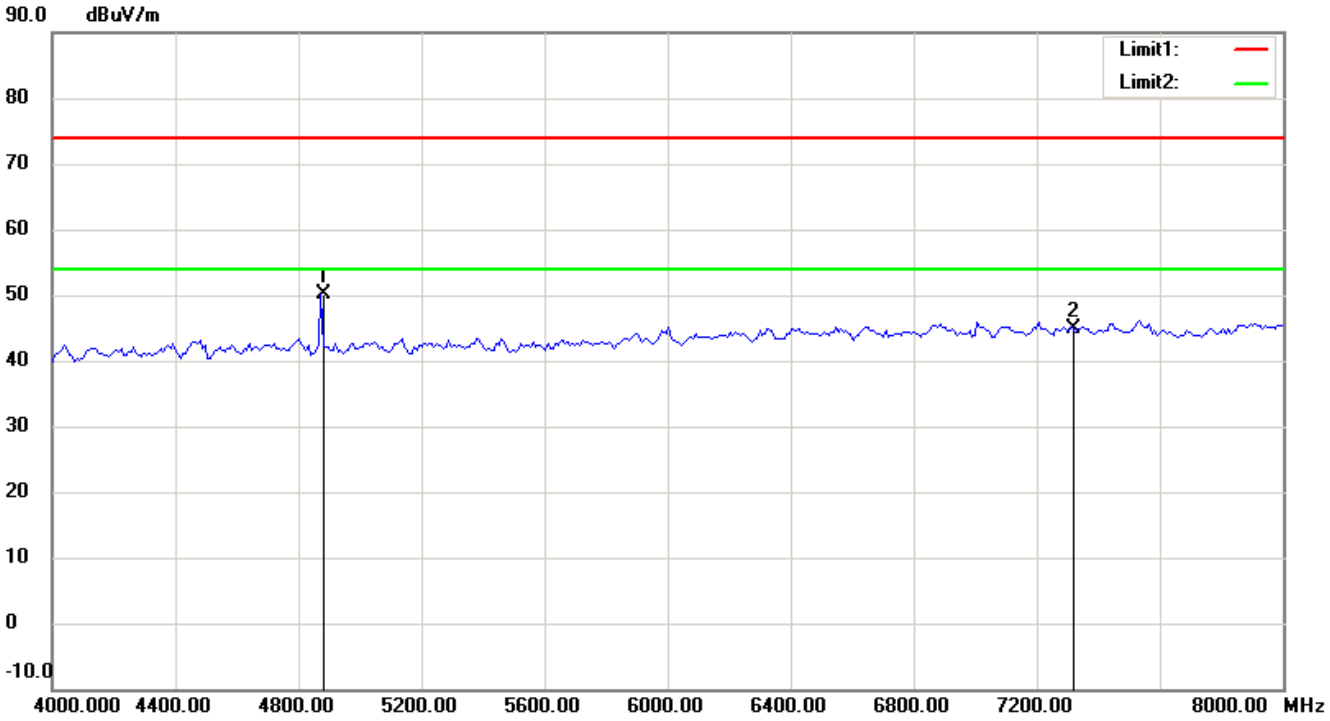
Antenna Polarization V

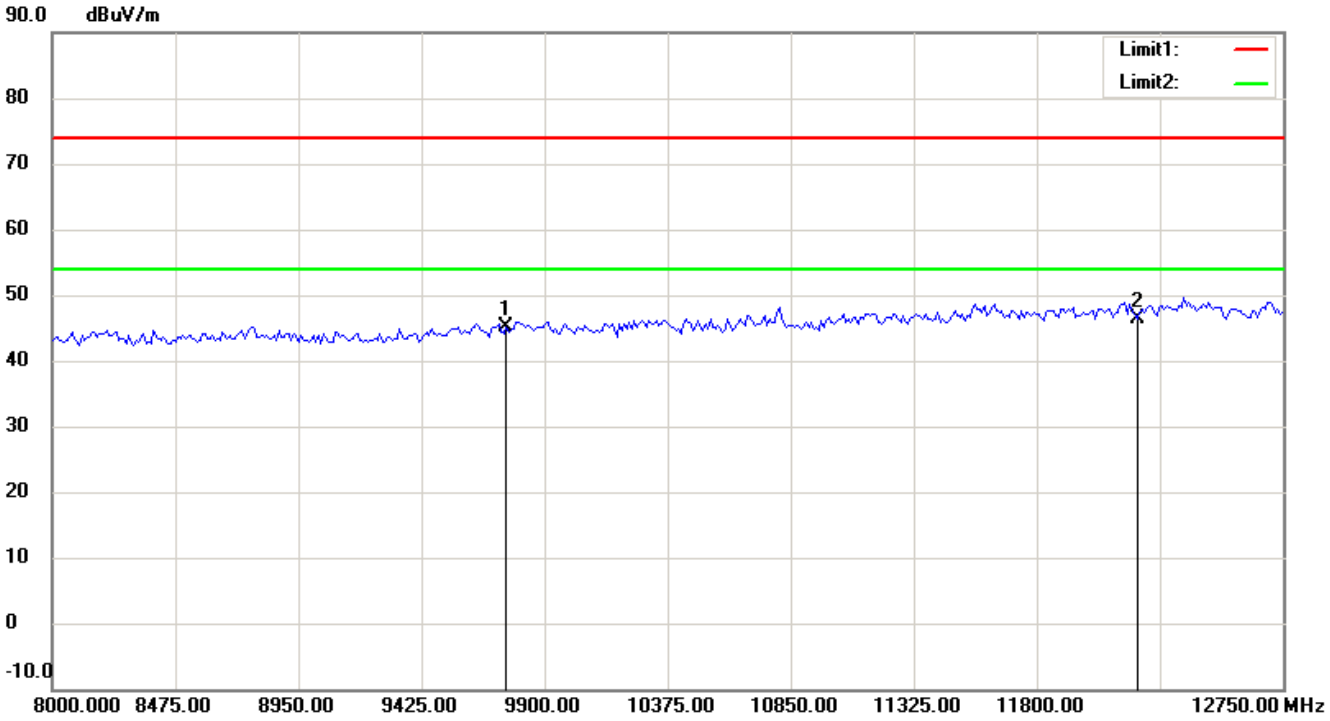


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

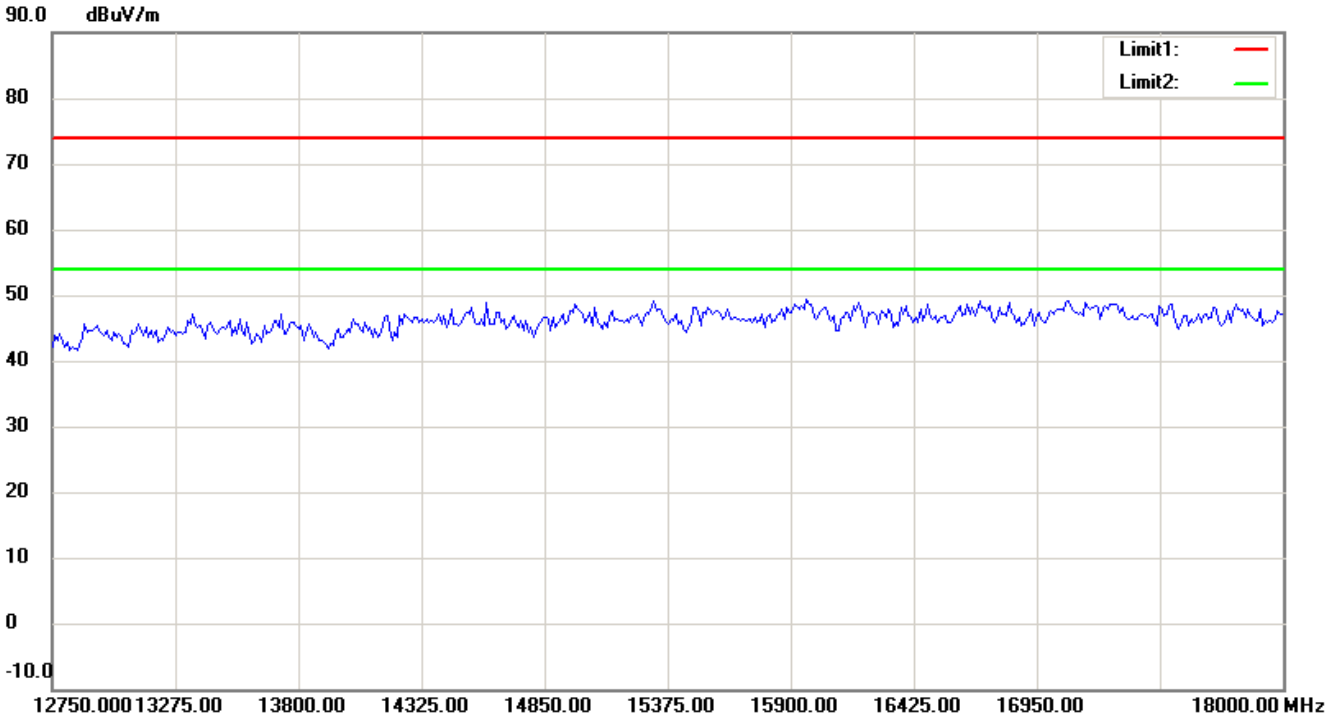


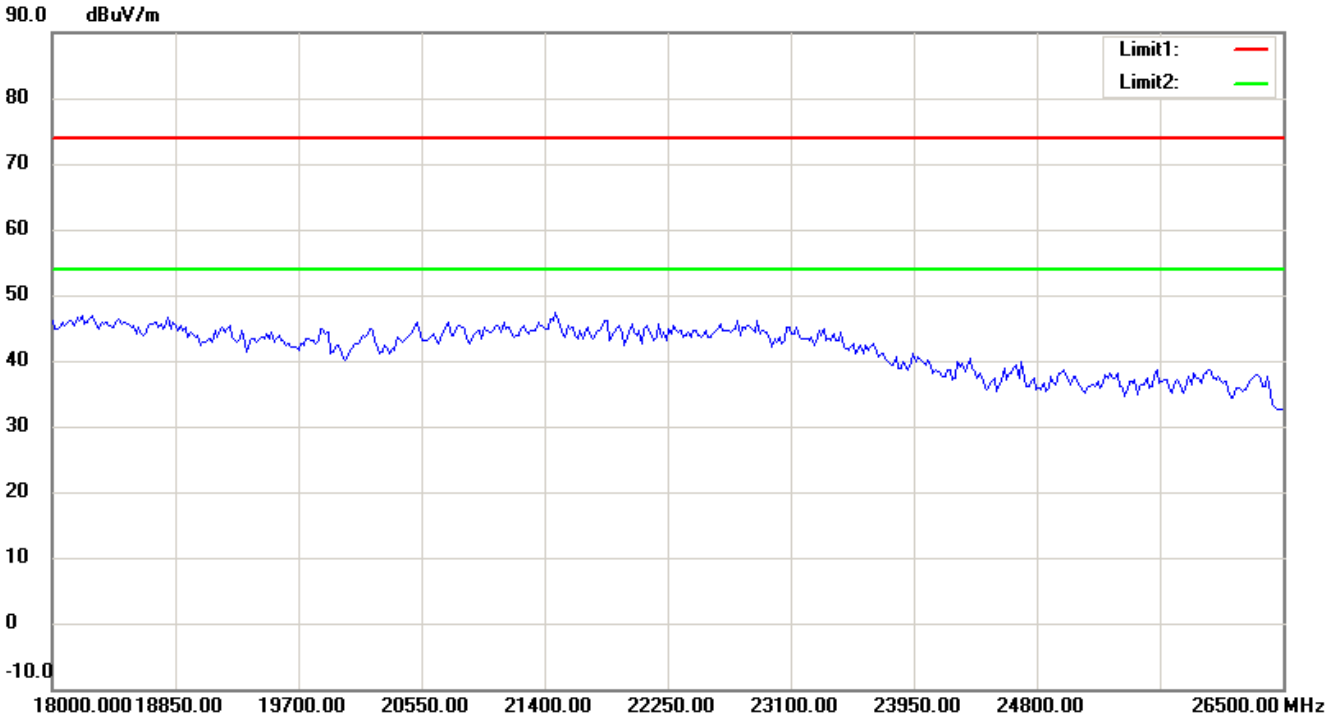


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



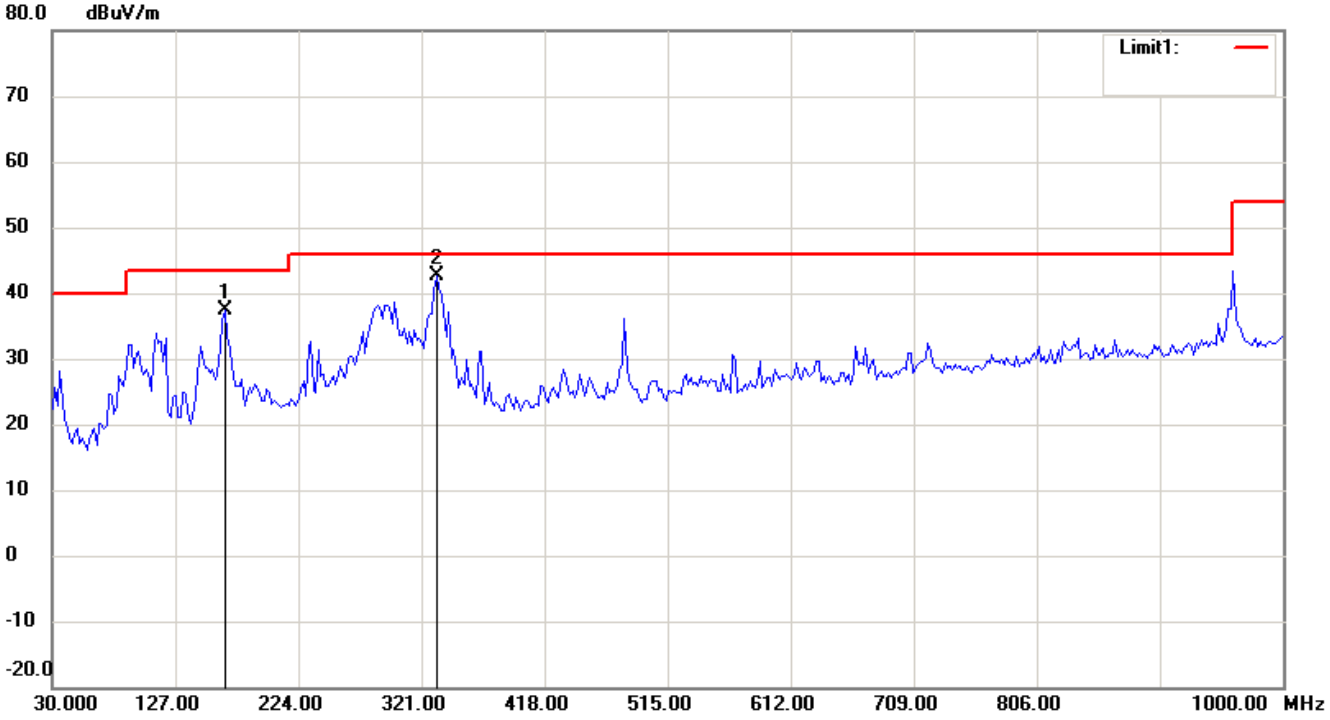


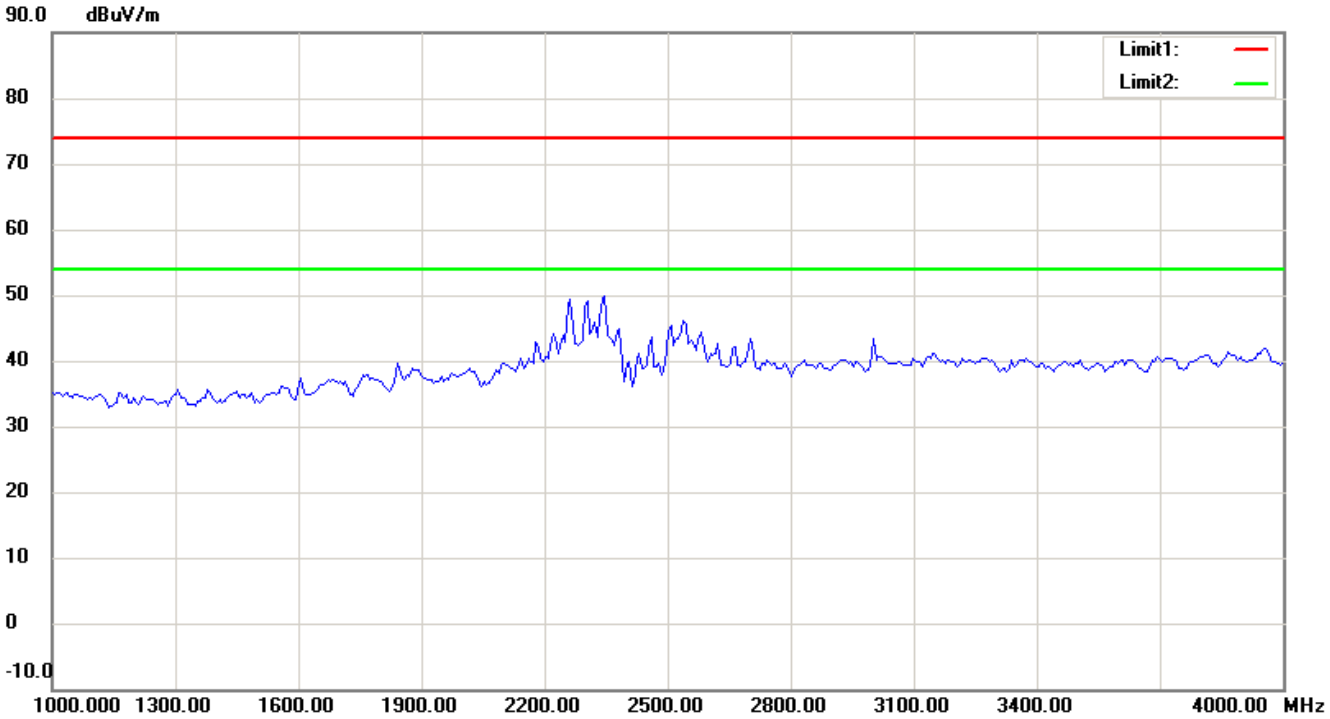
Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11b_CH11
Antenna Polarization H

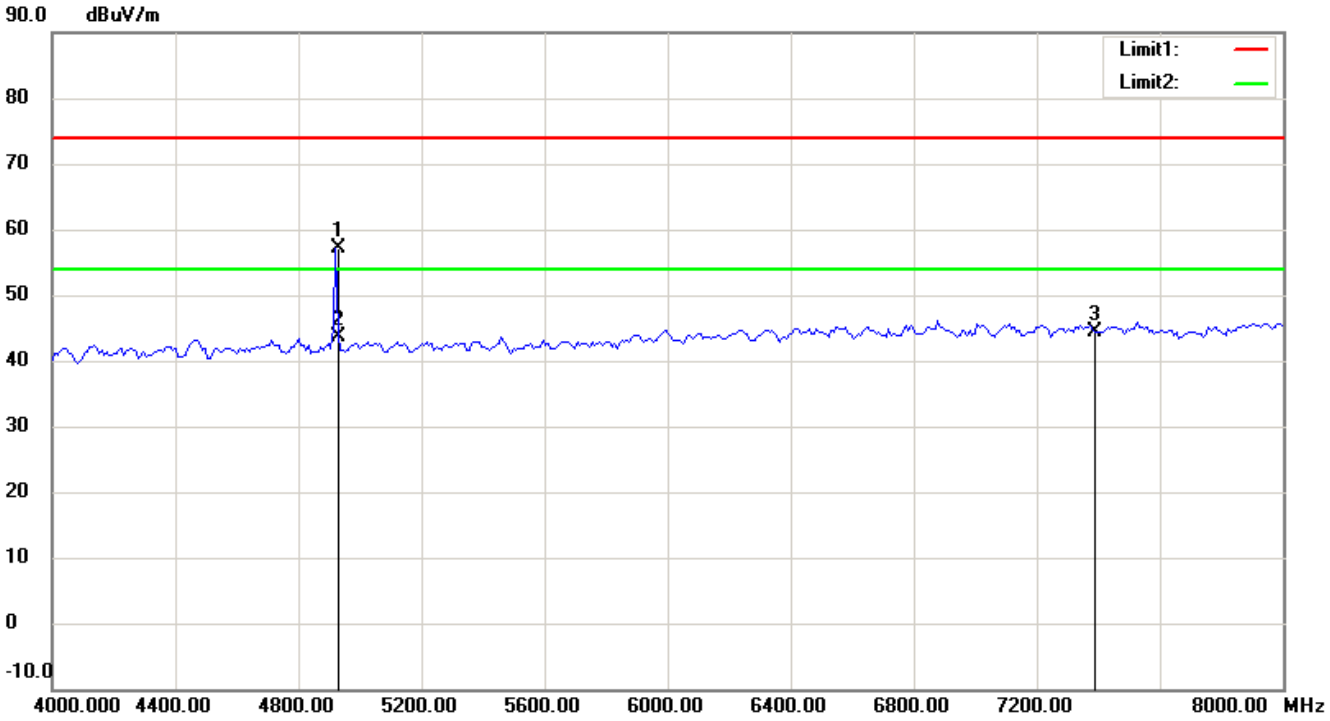


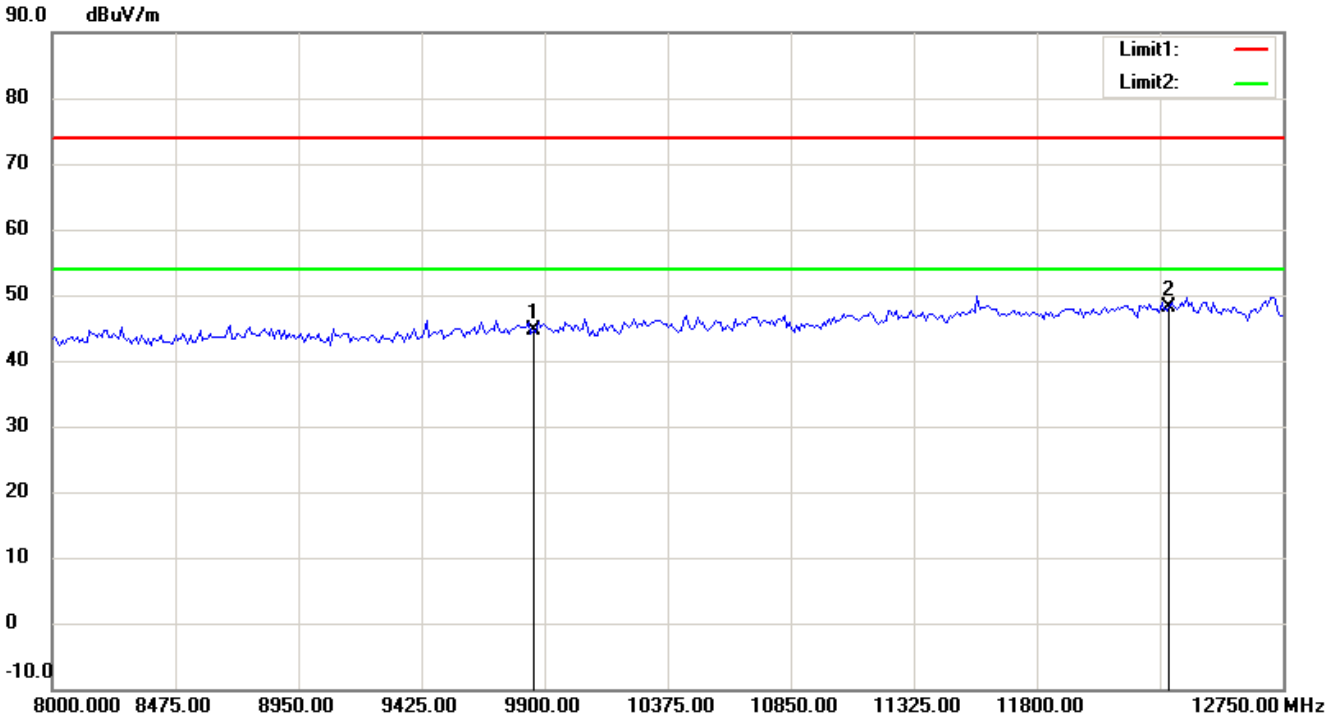


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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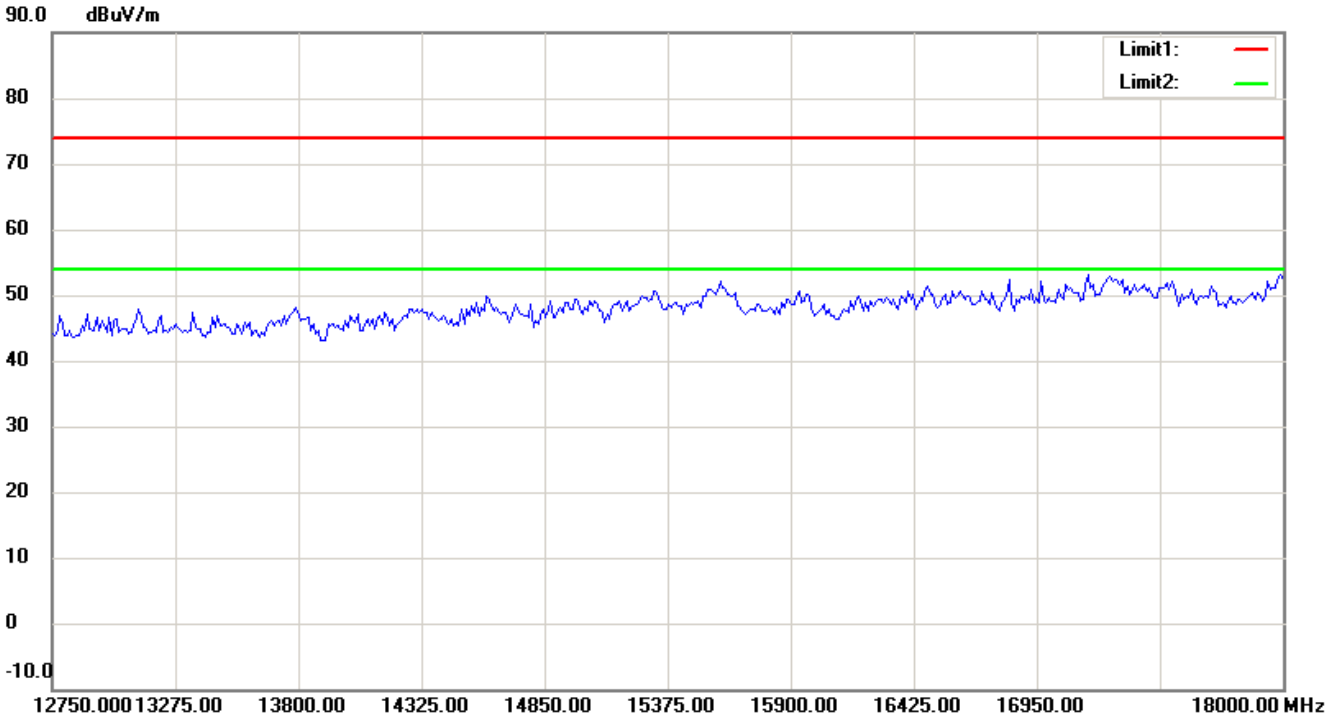
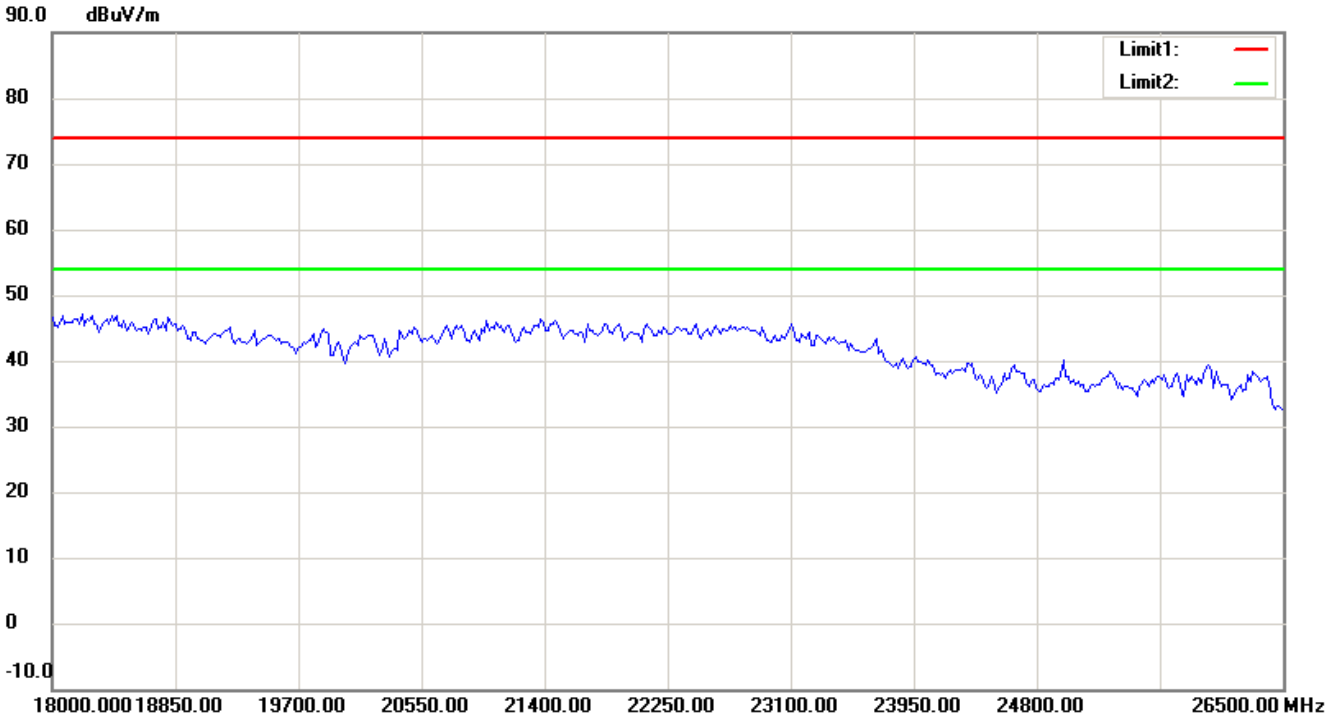
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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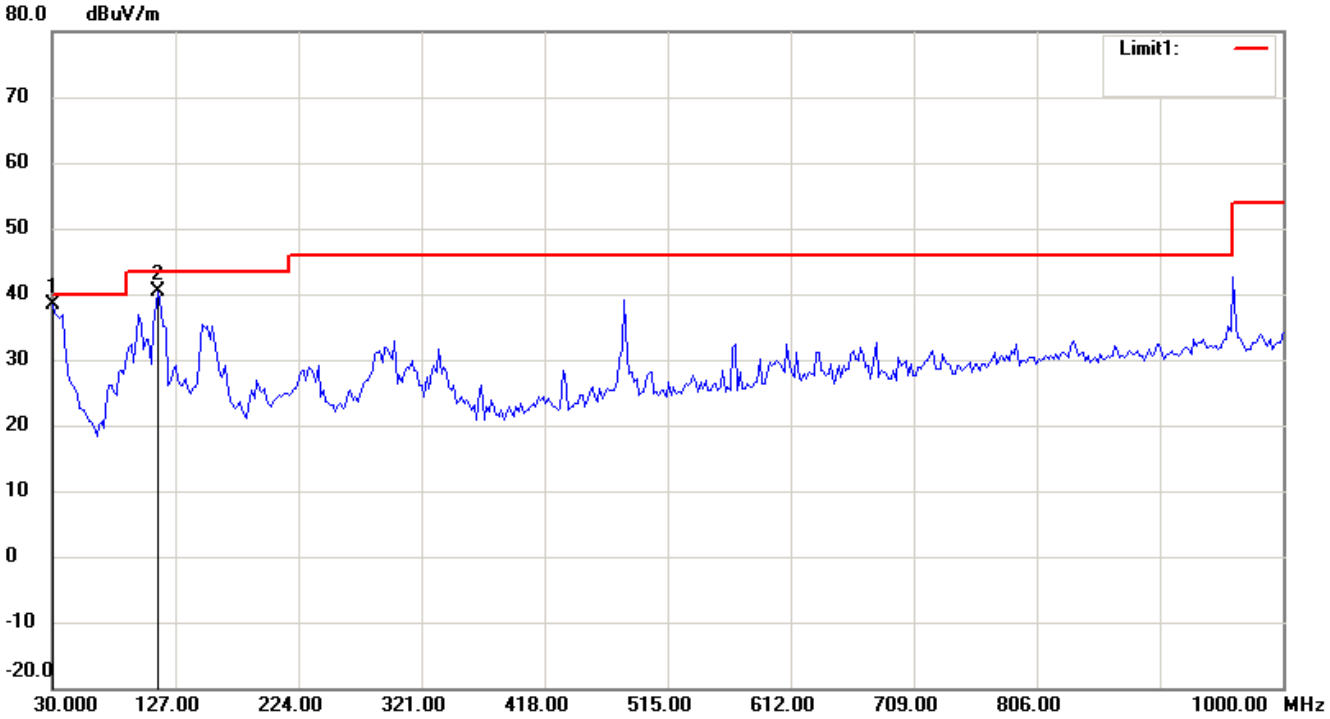
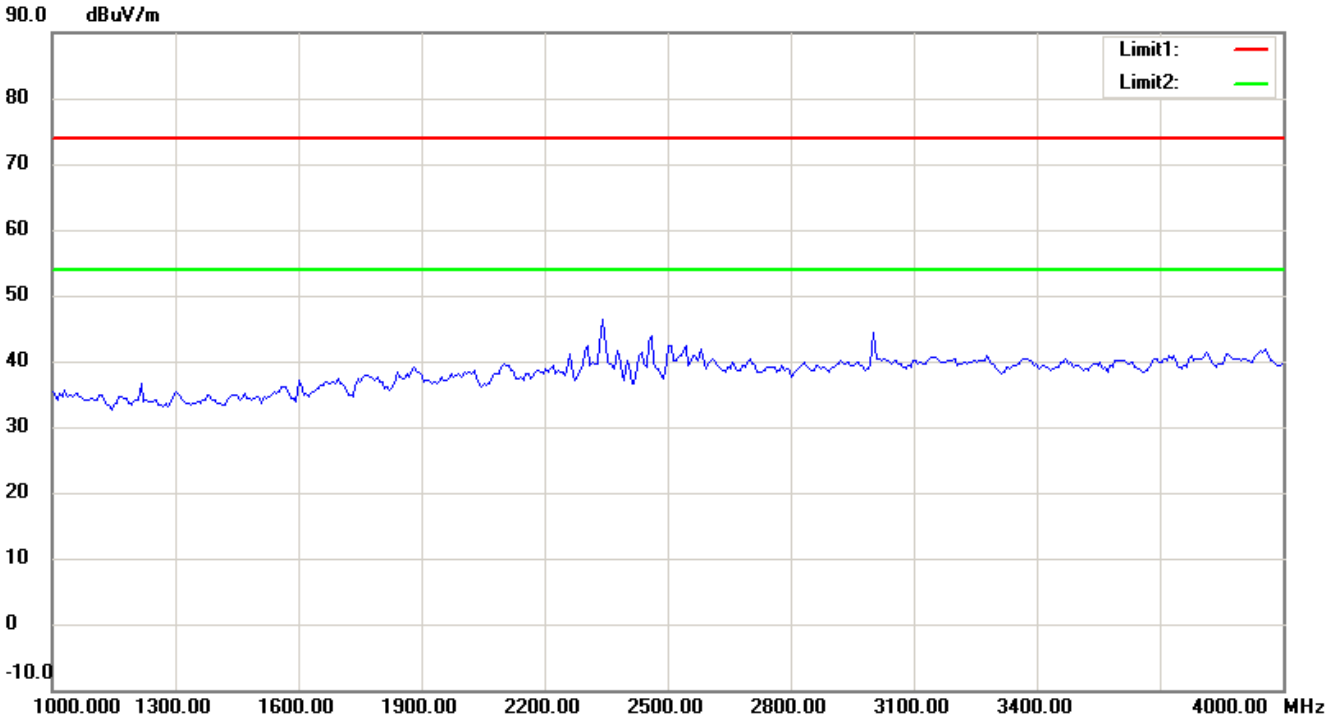
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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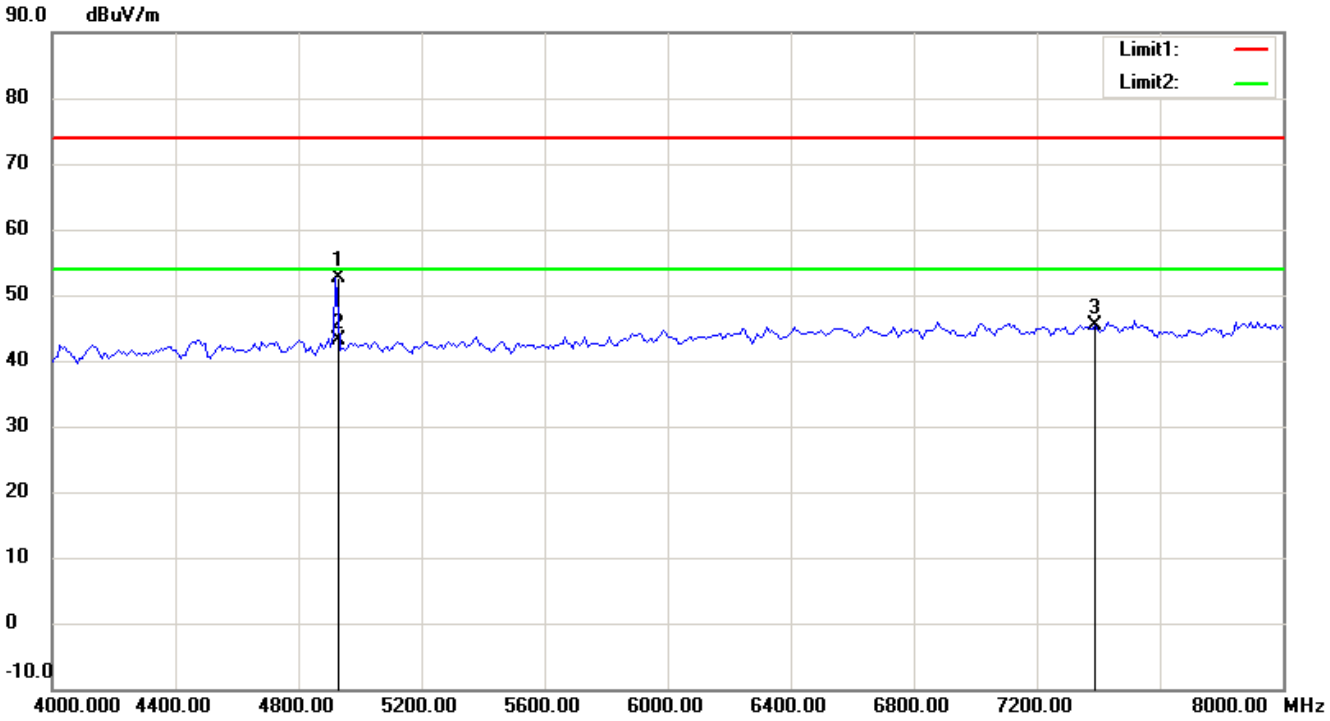
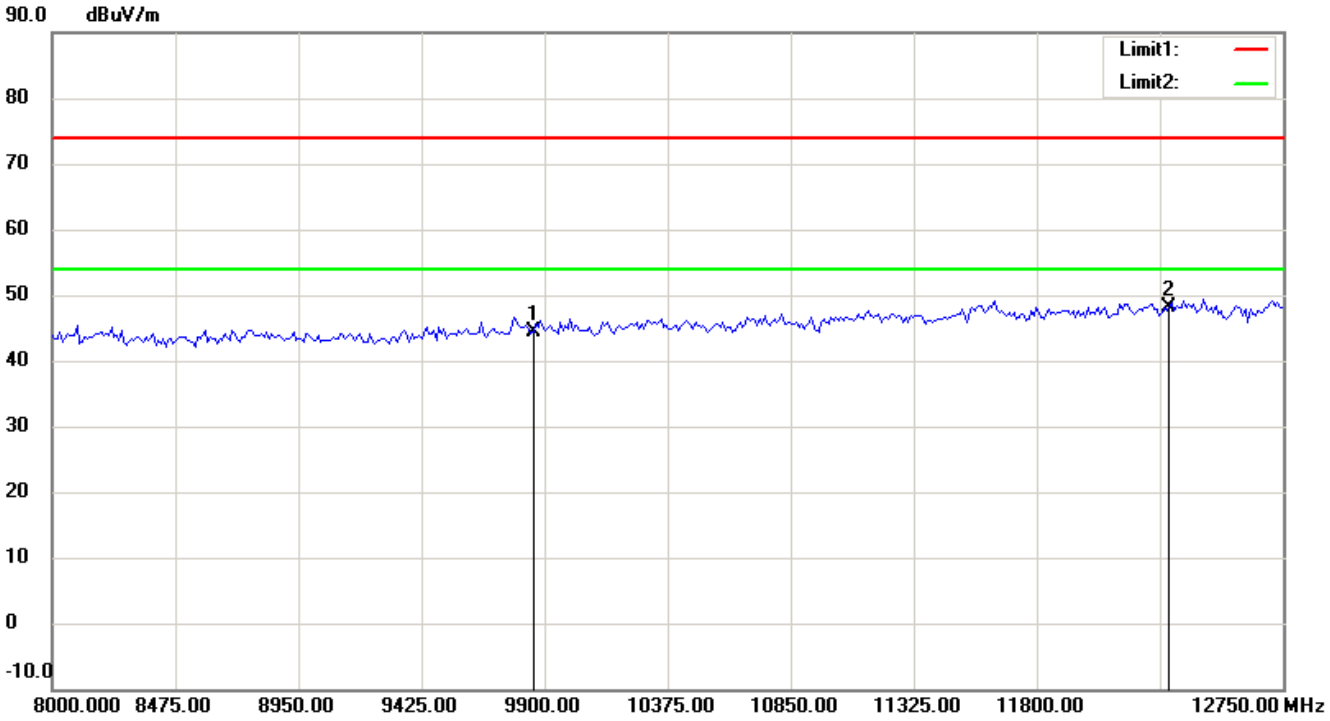
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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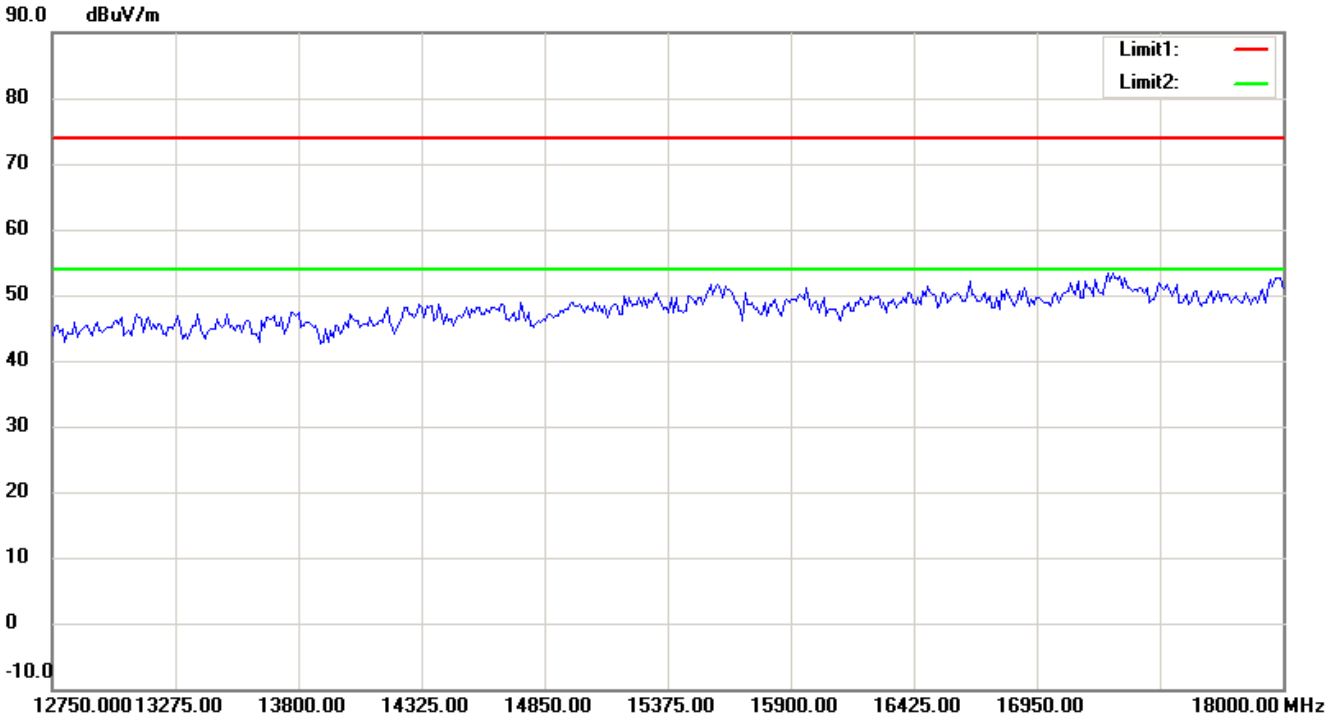
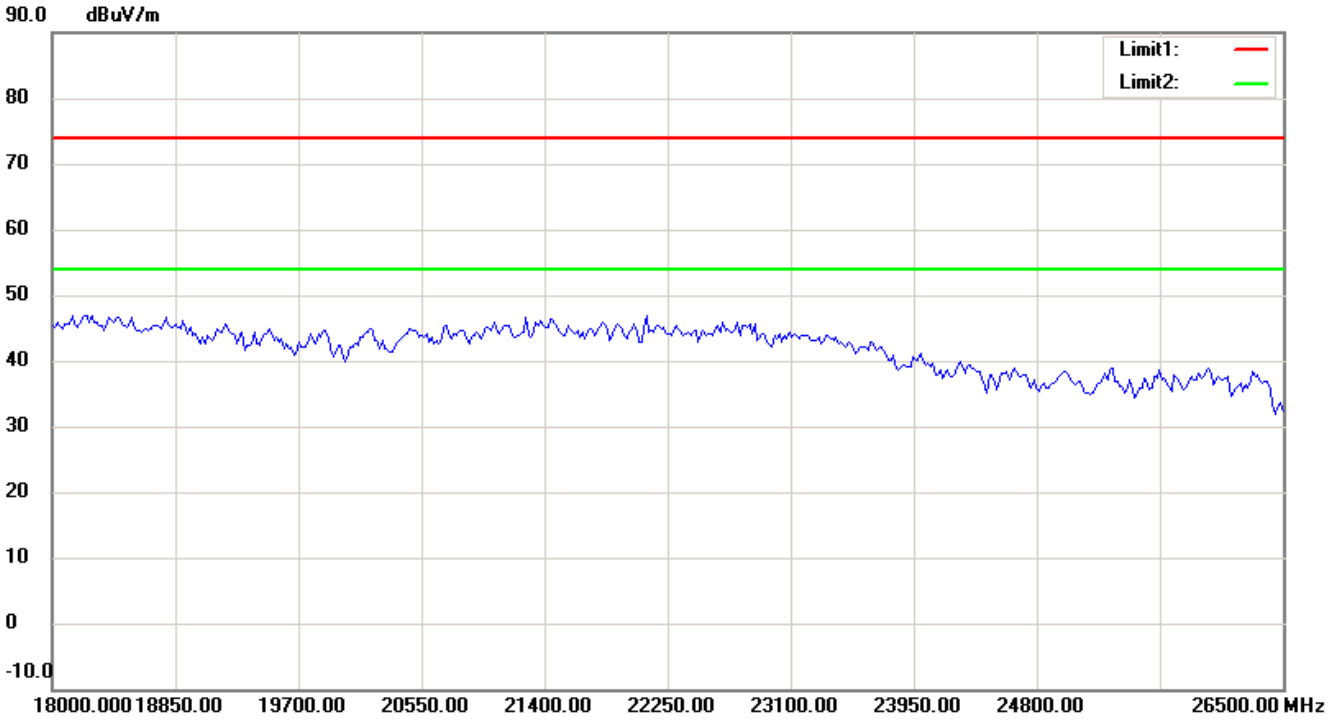
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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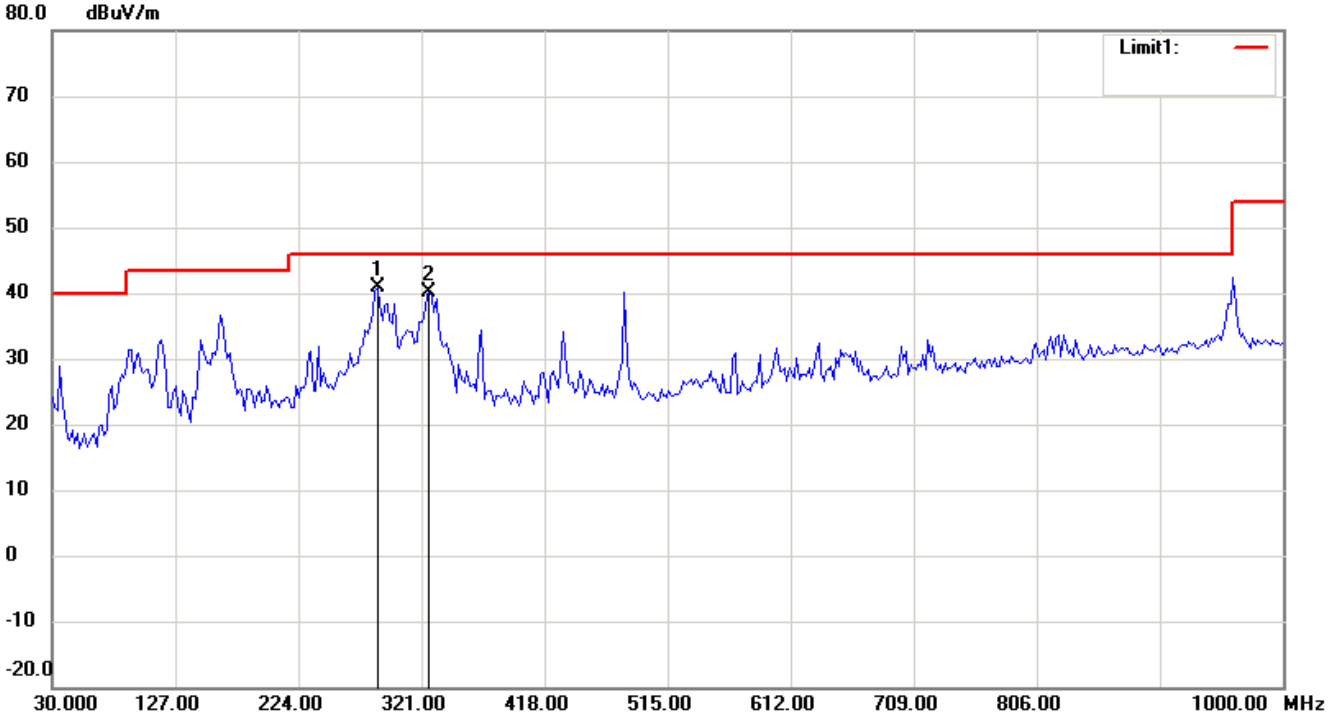
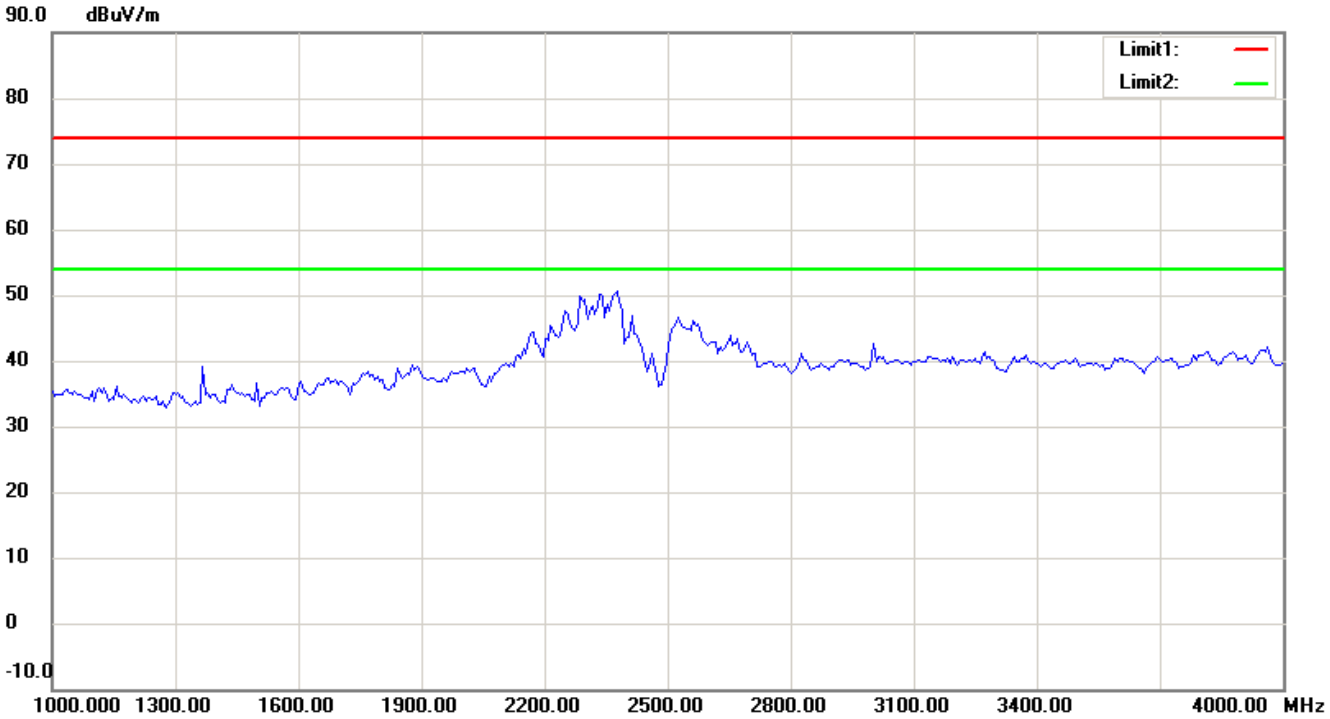
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11g_CH1
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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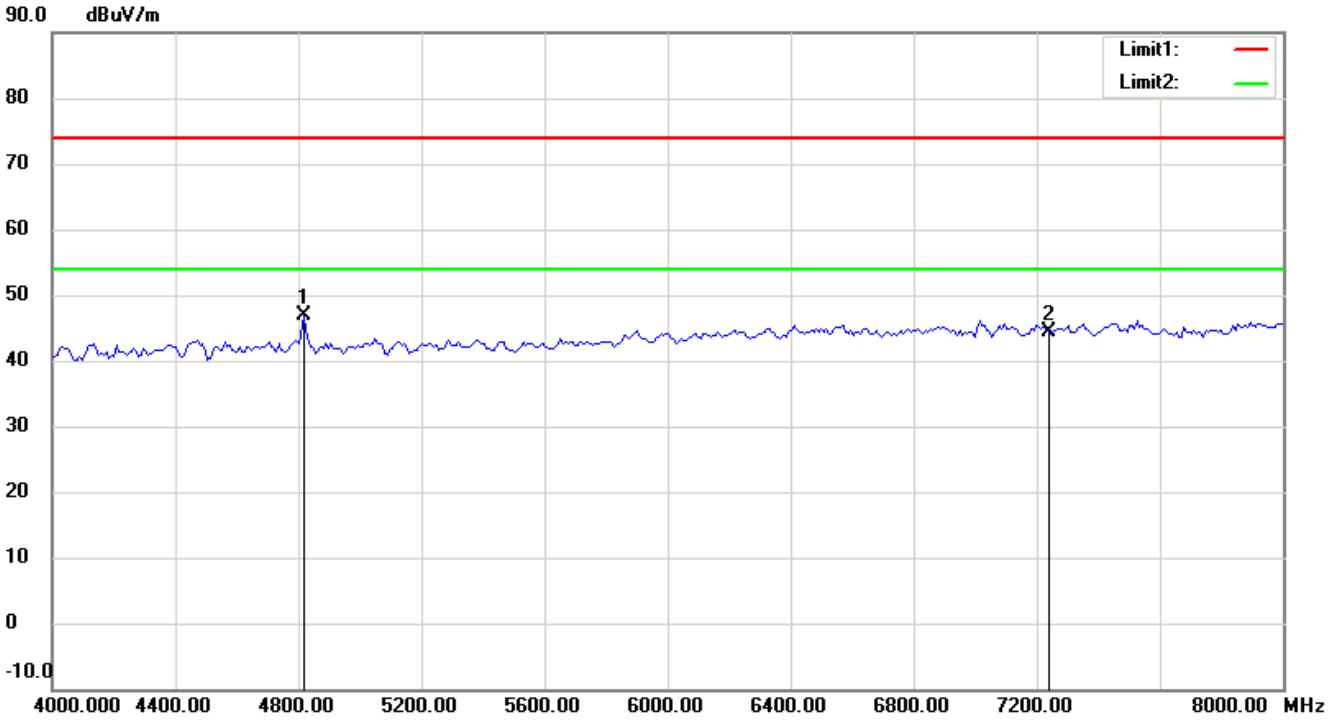
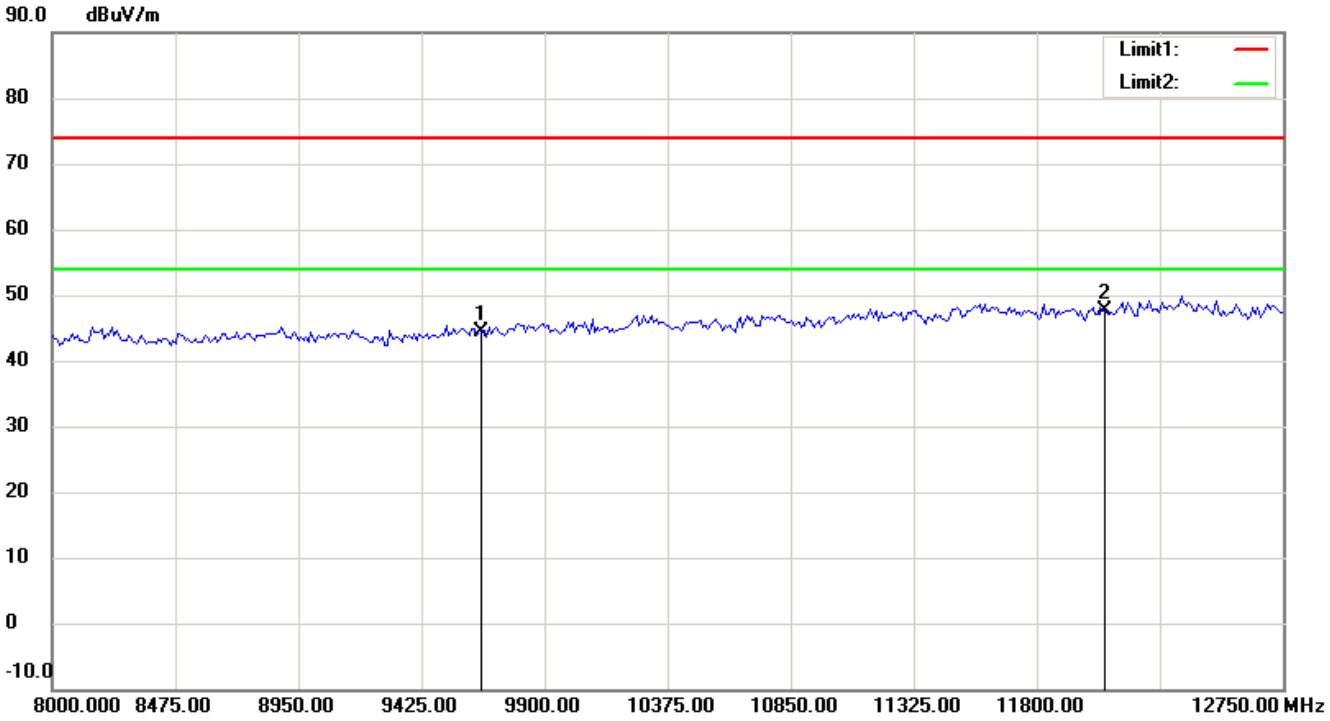
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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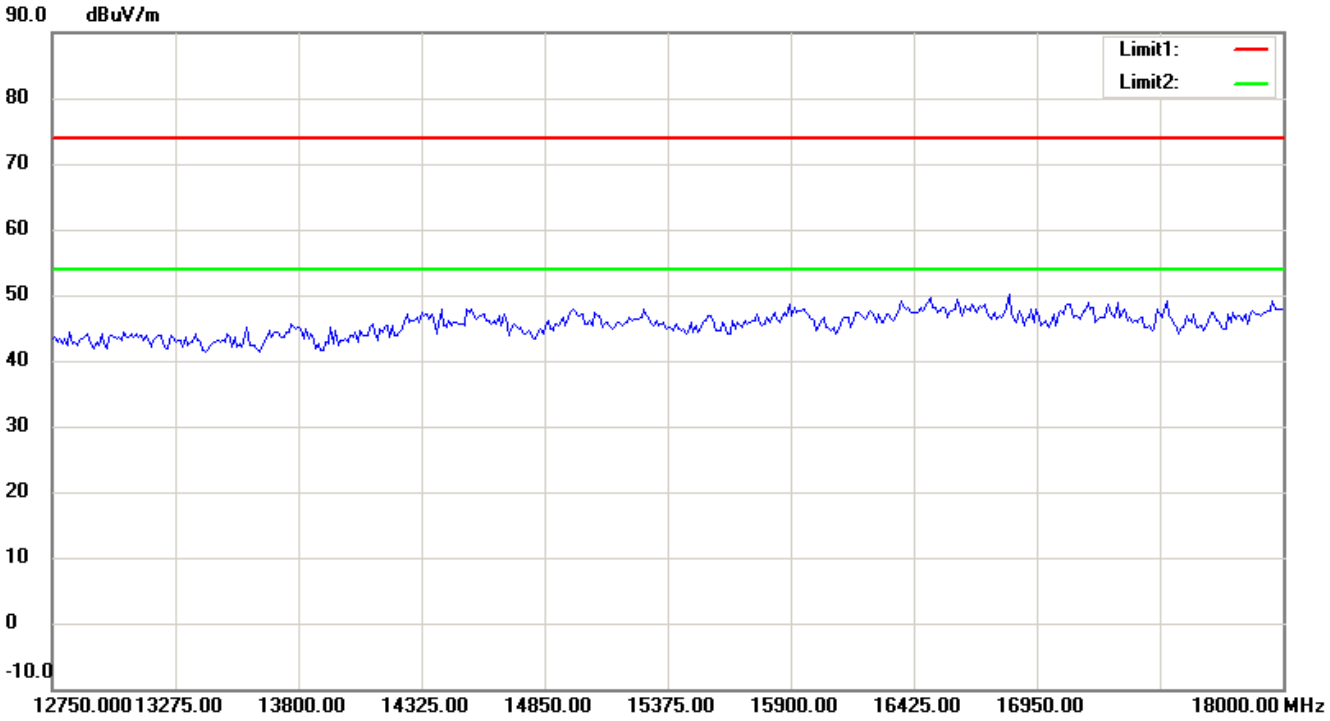
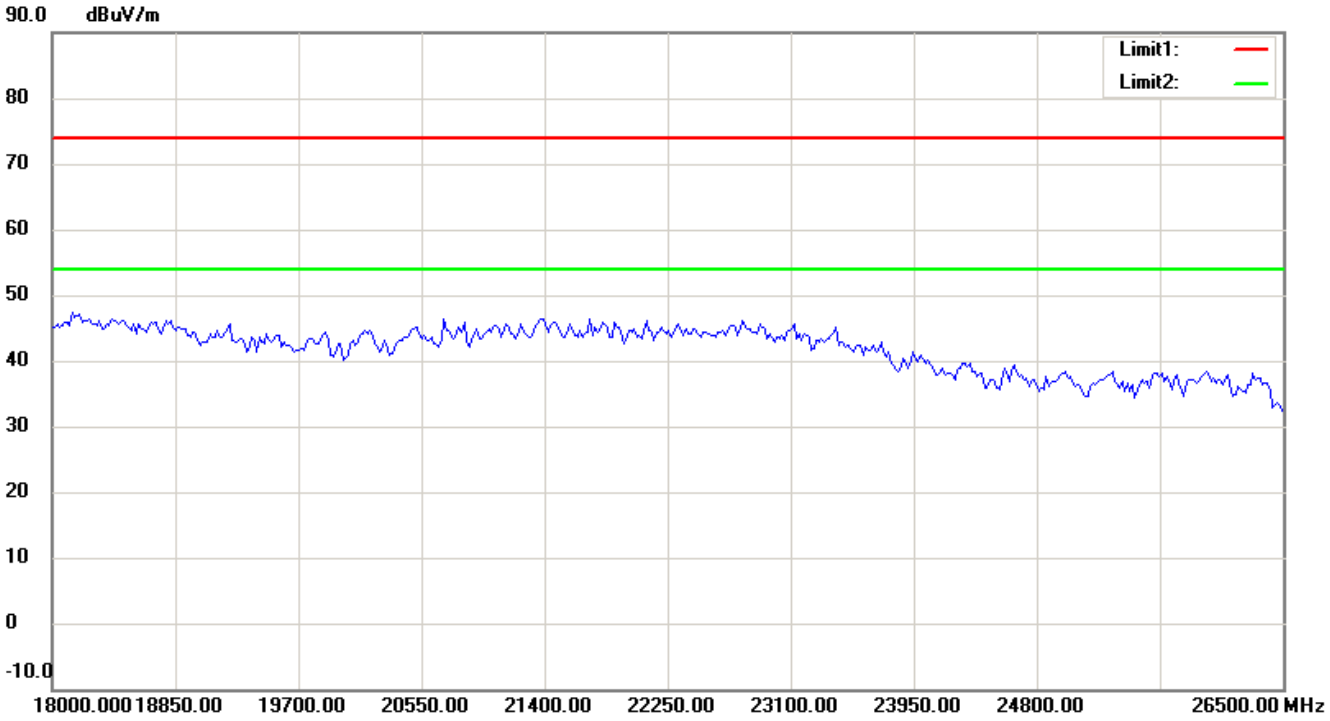
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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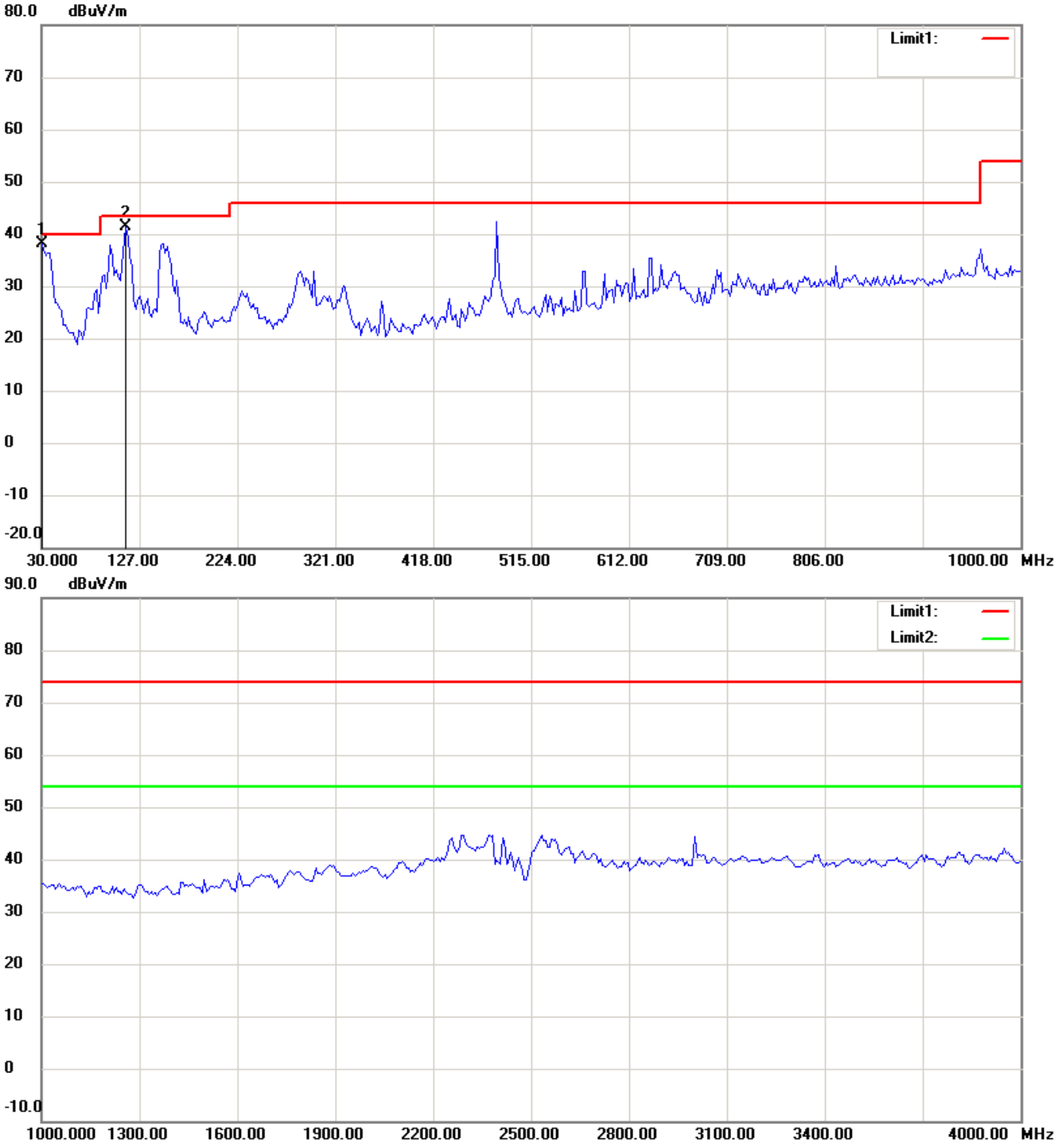
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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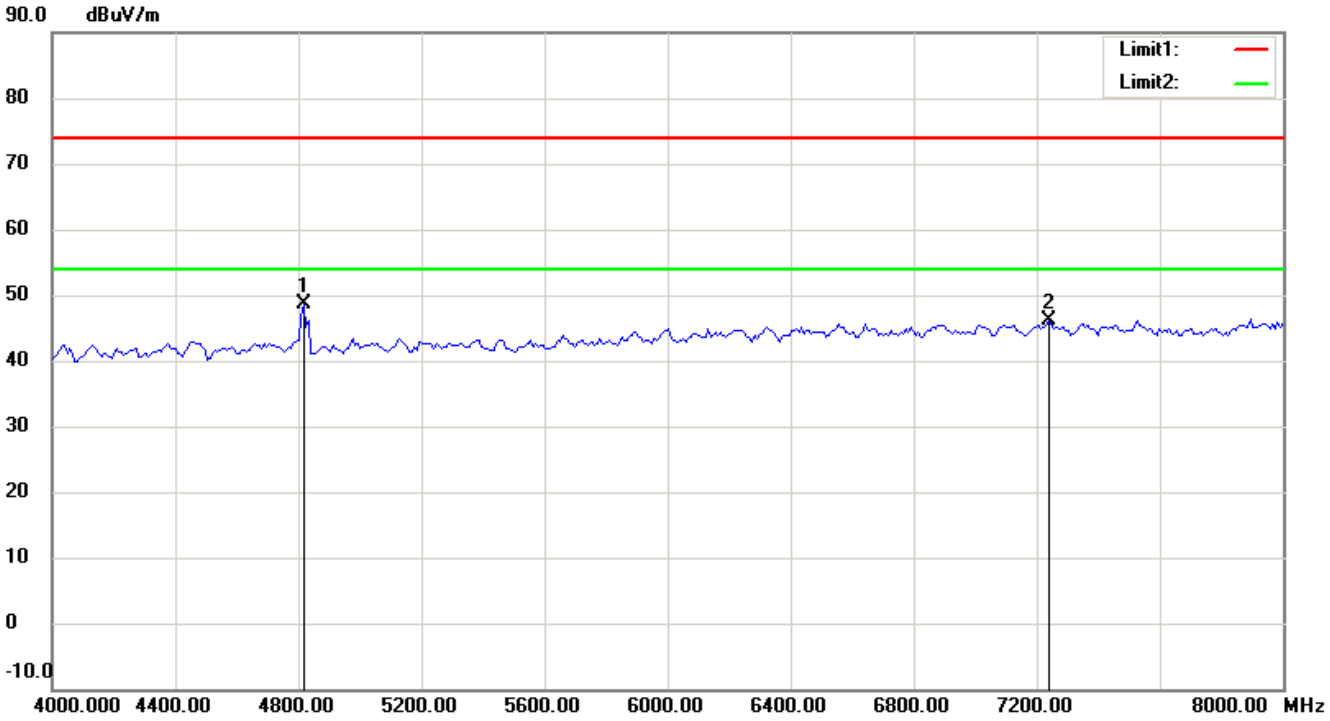
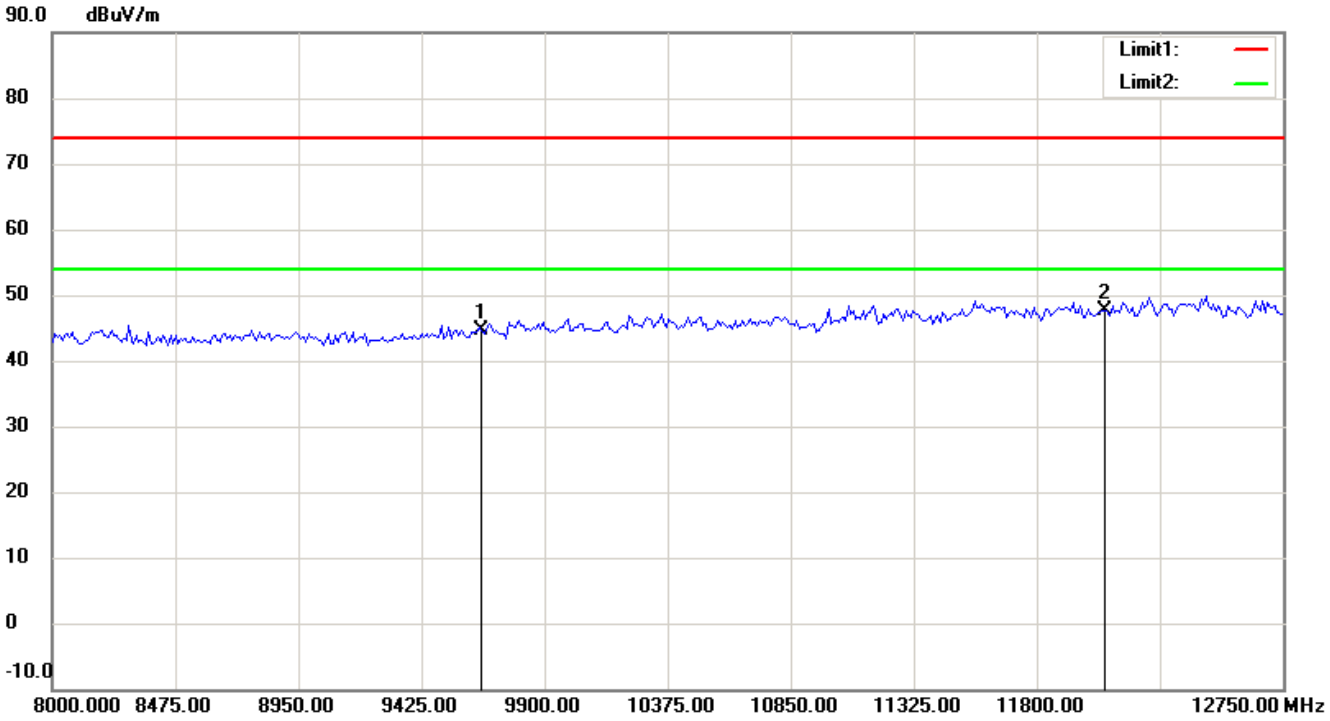
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





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Note:

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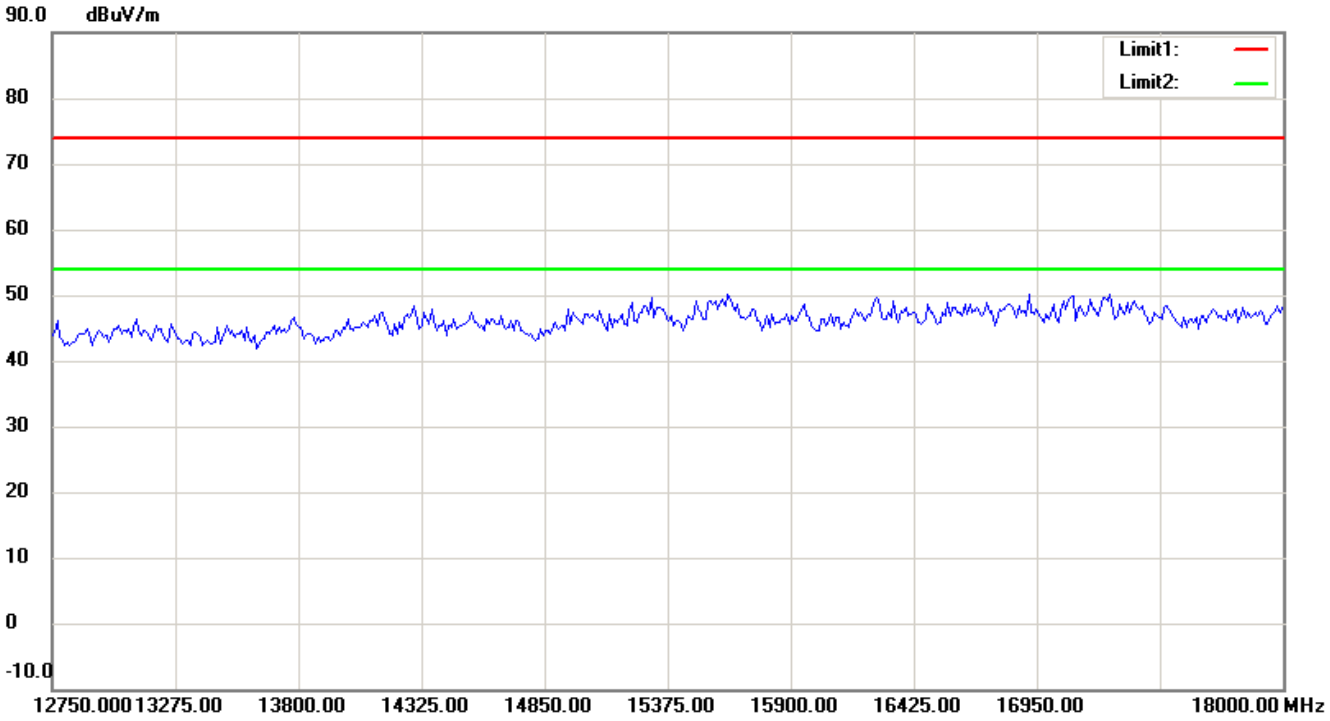
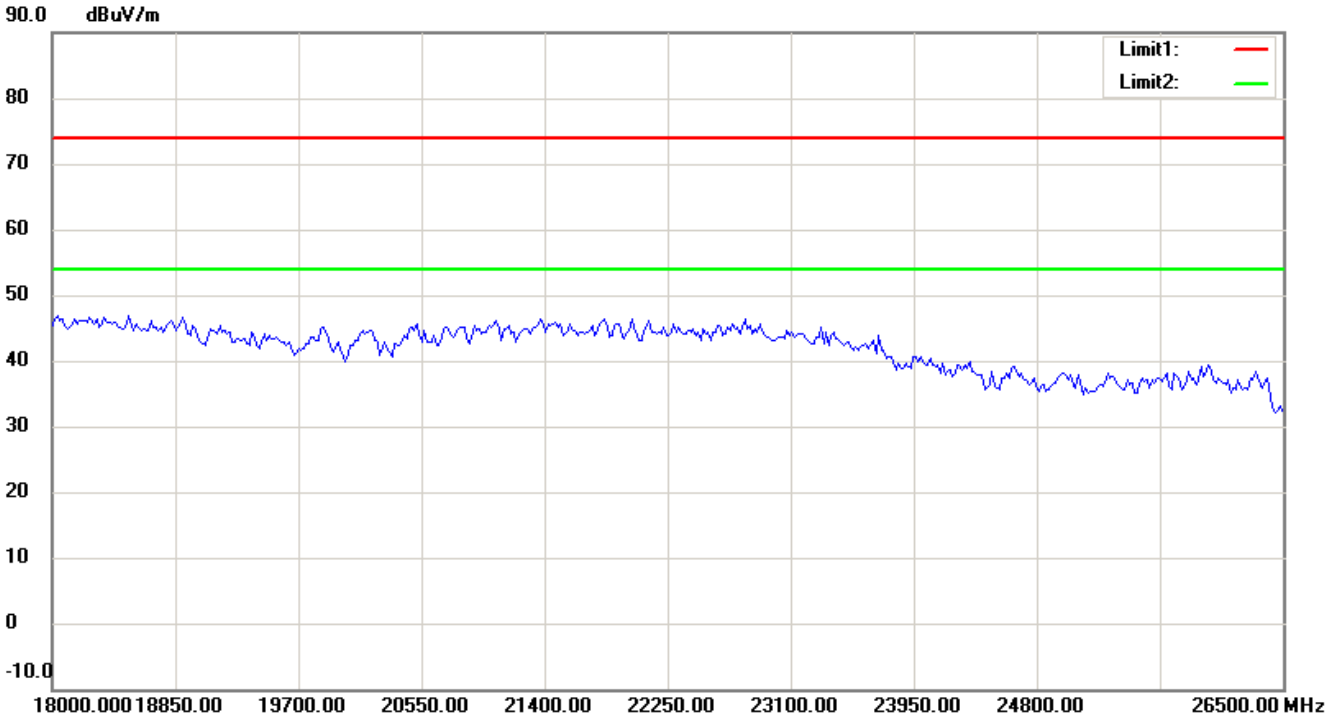
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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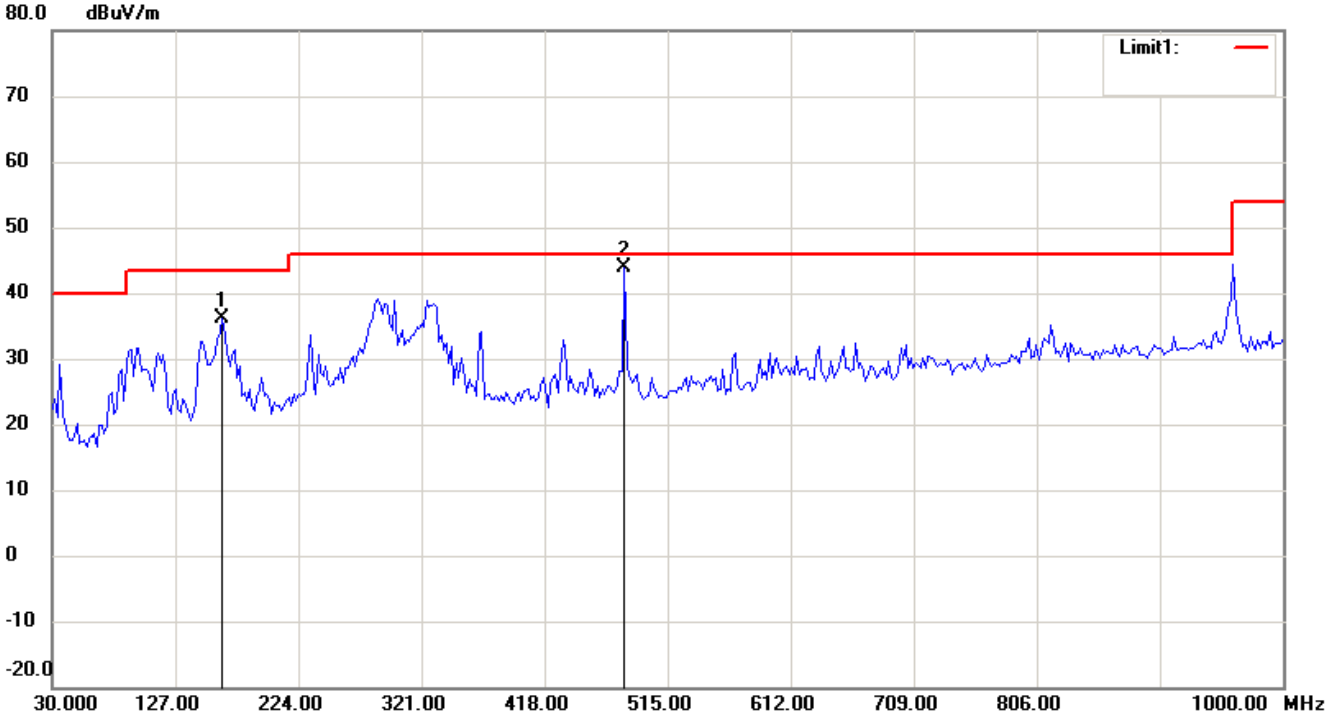
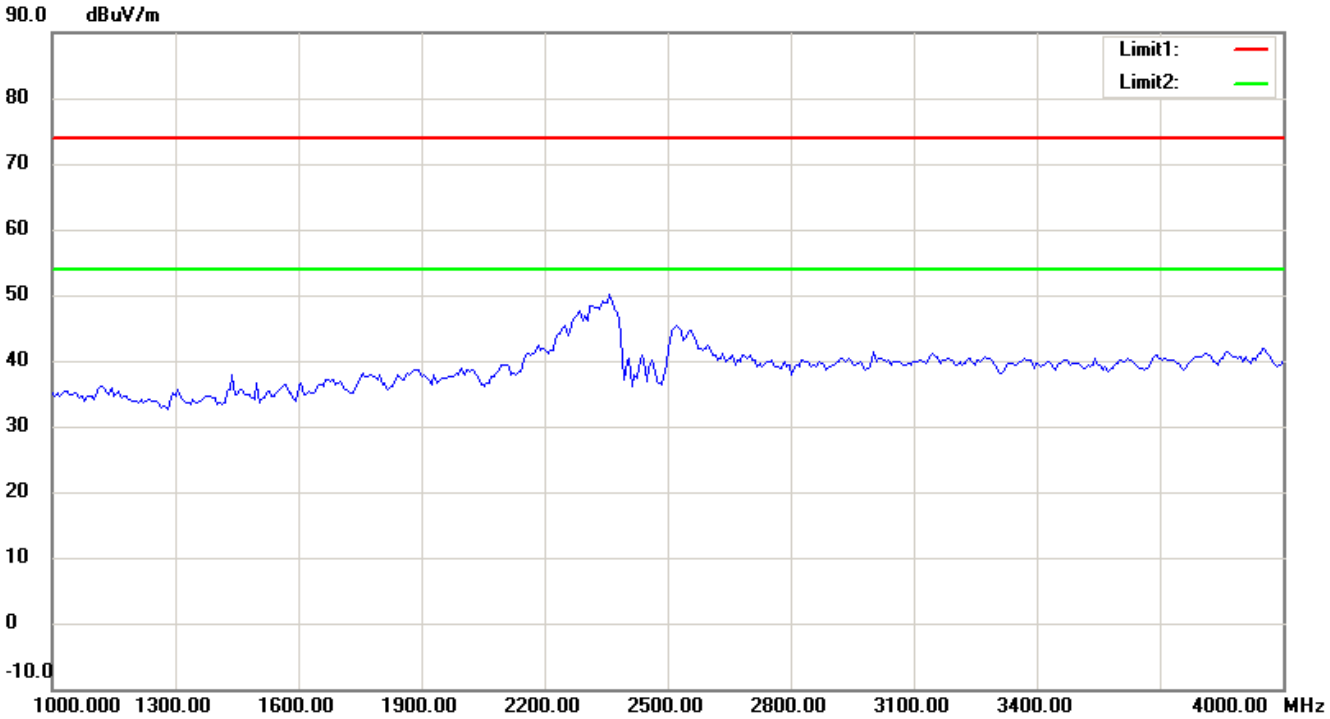
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11g_CH6
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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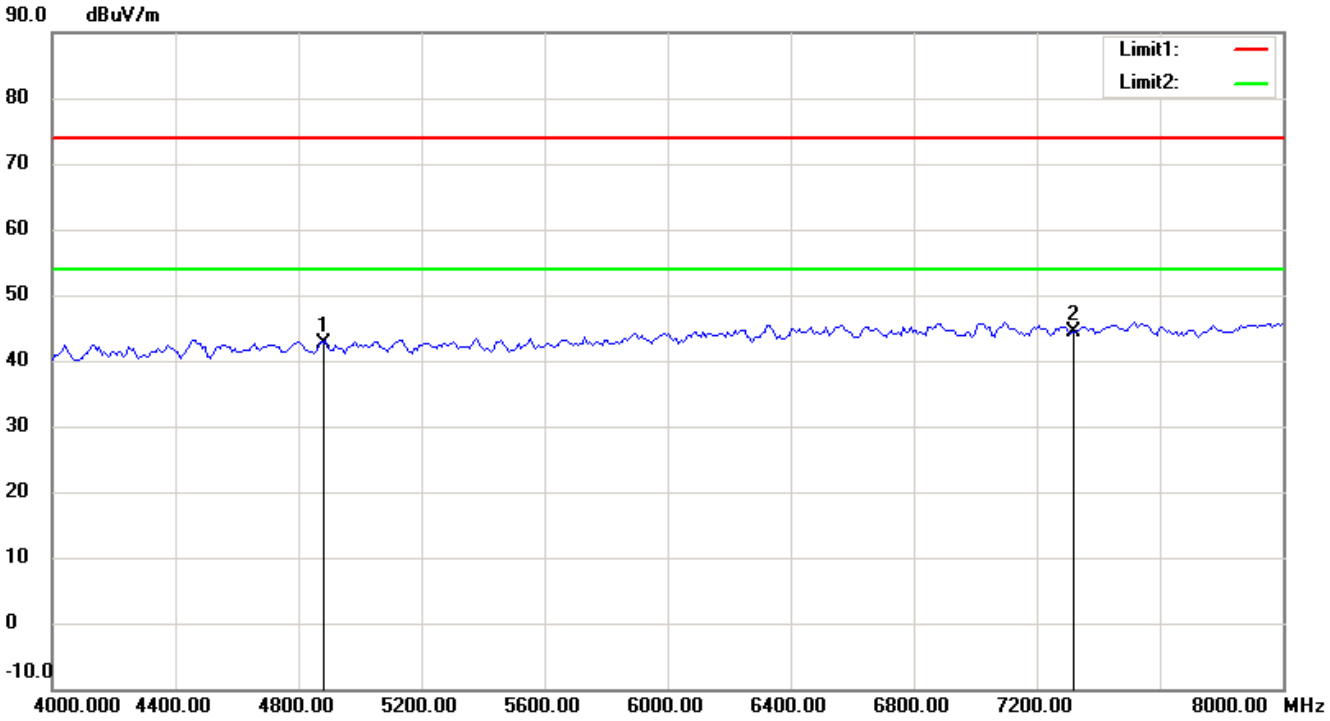
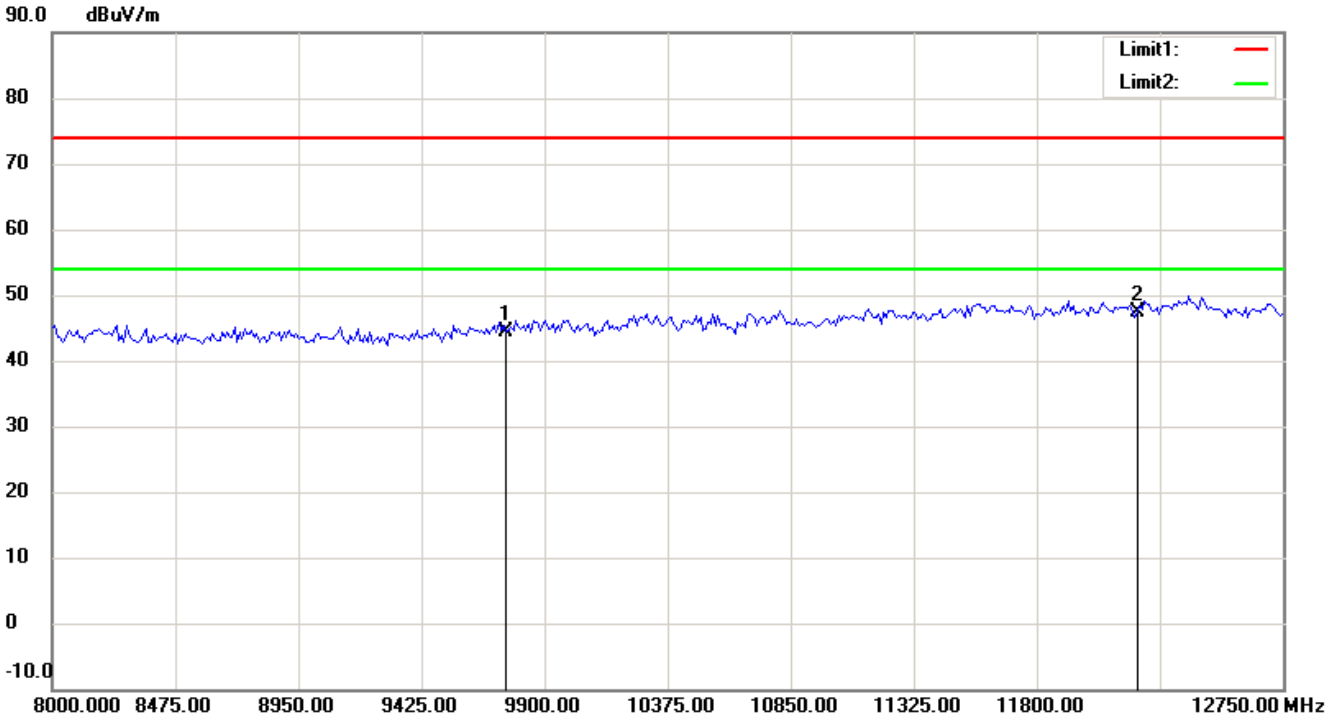
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





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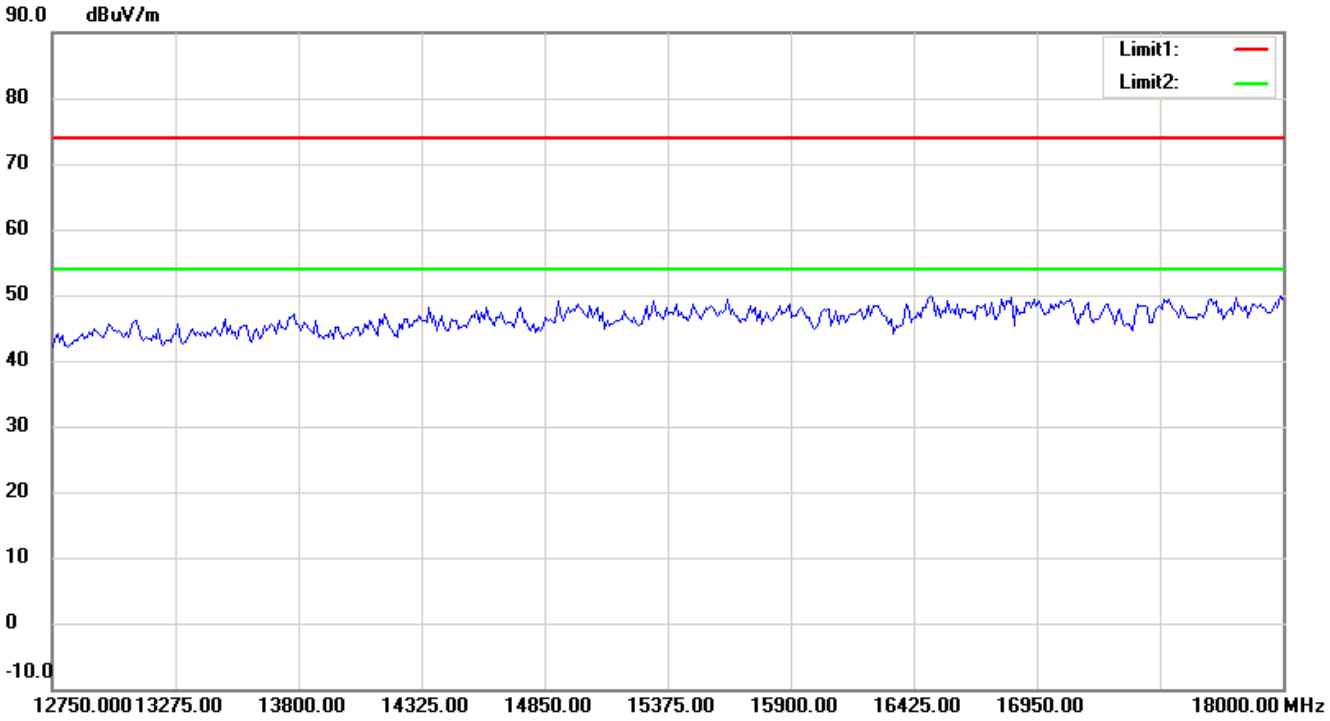
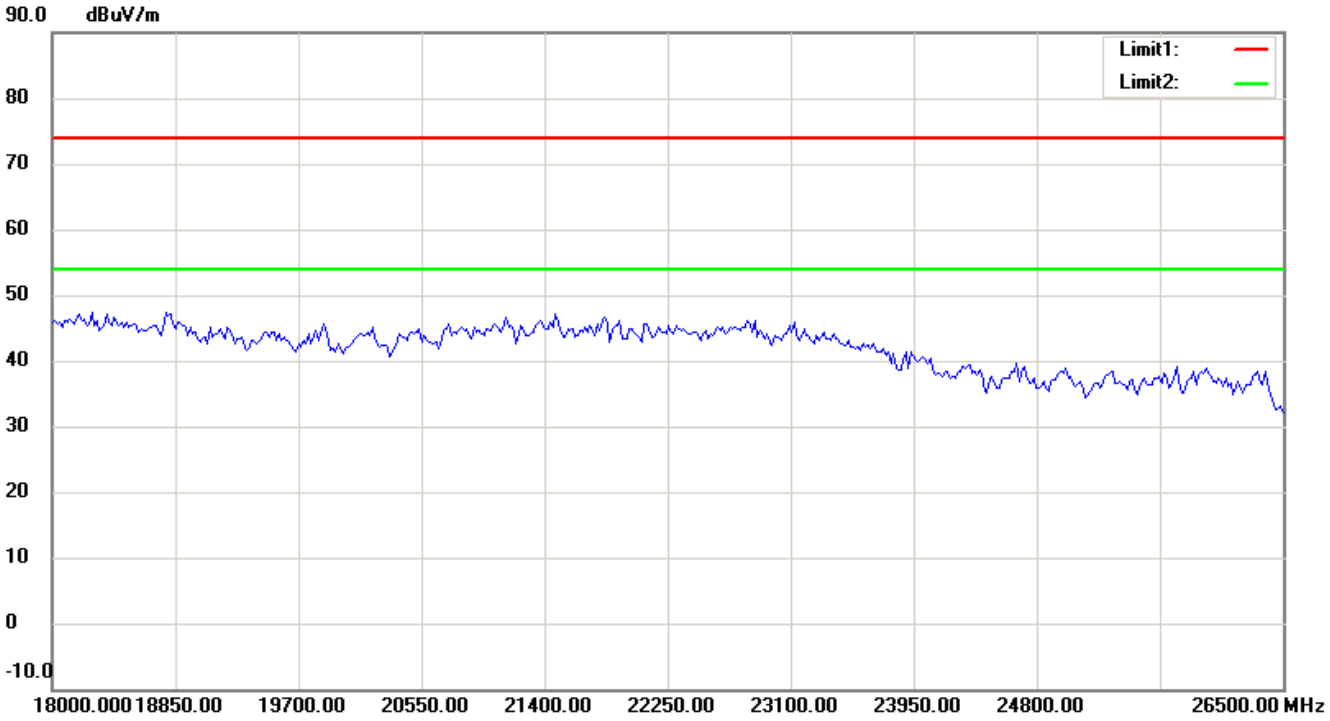
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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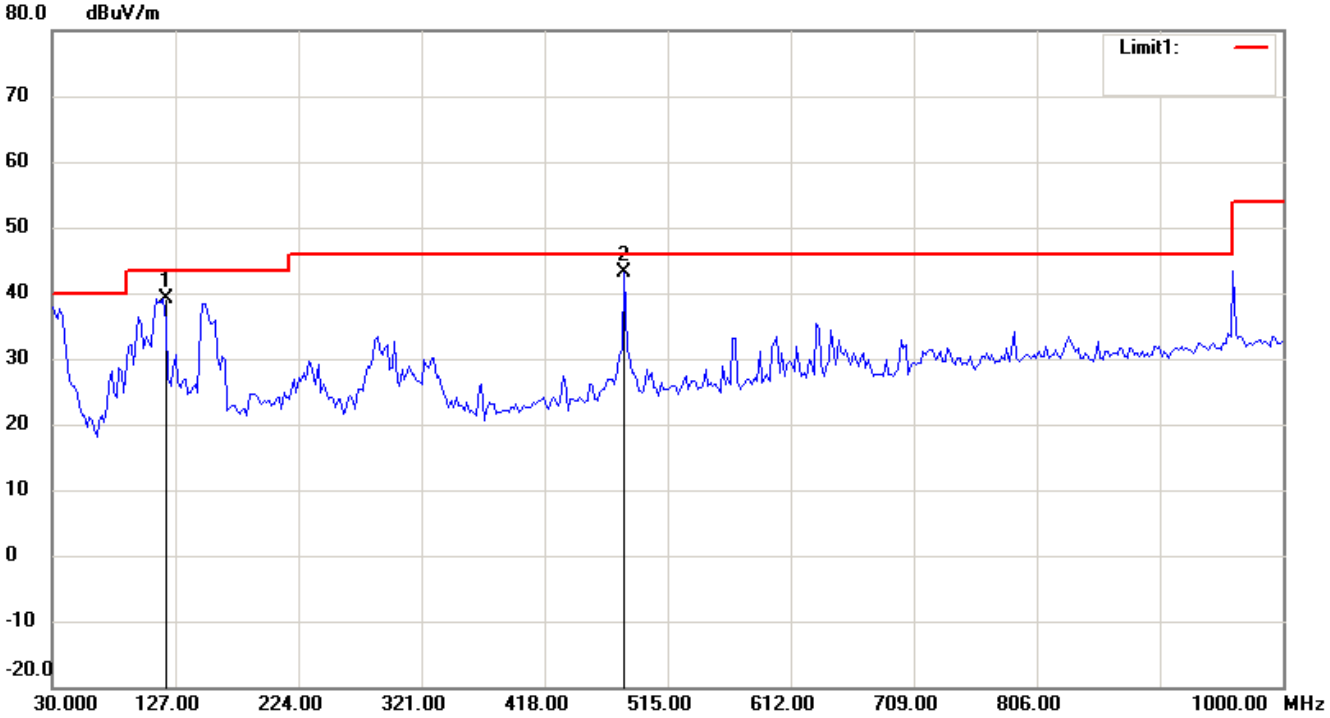
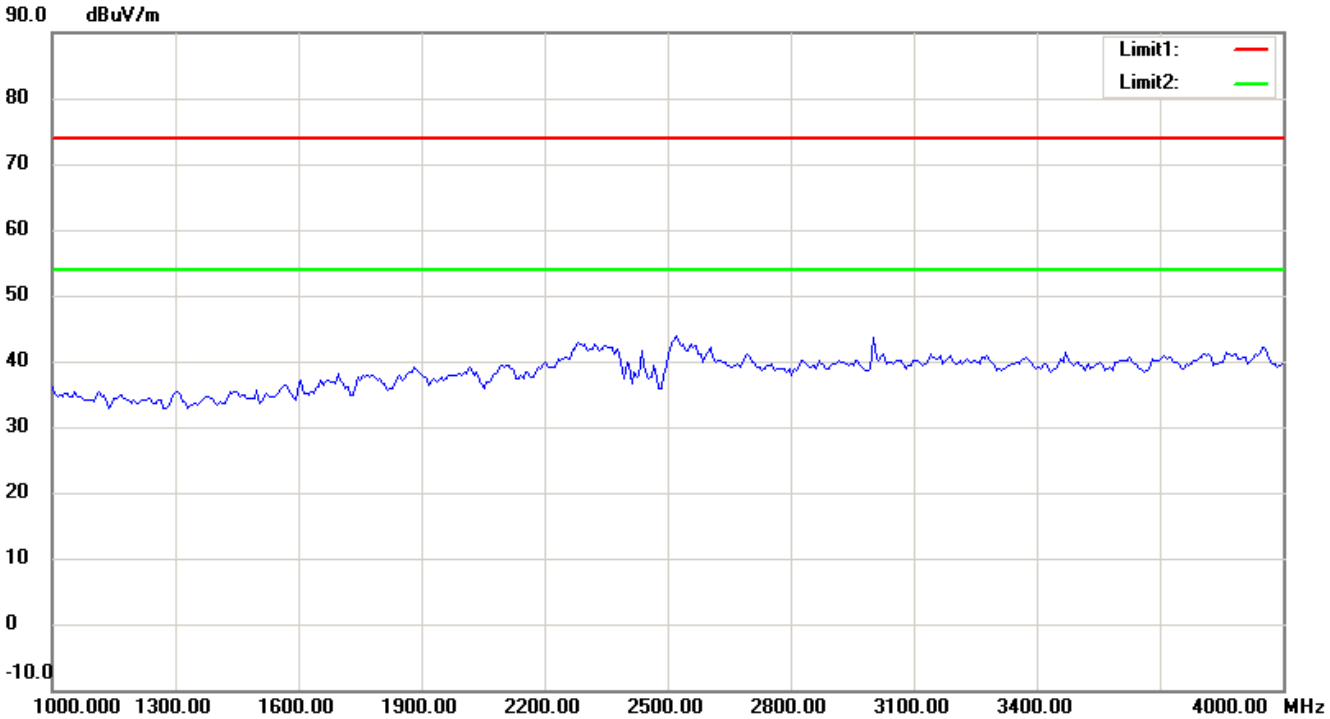
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
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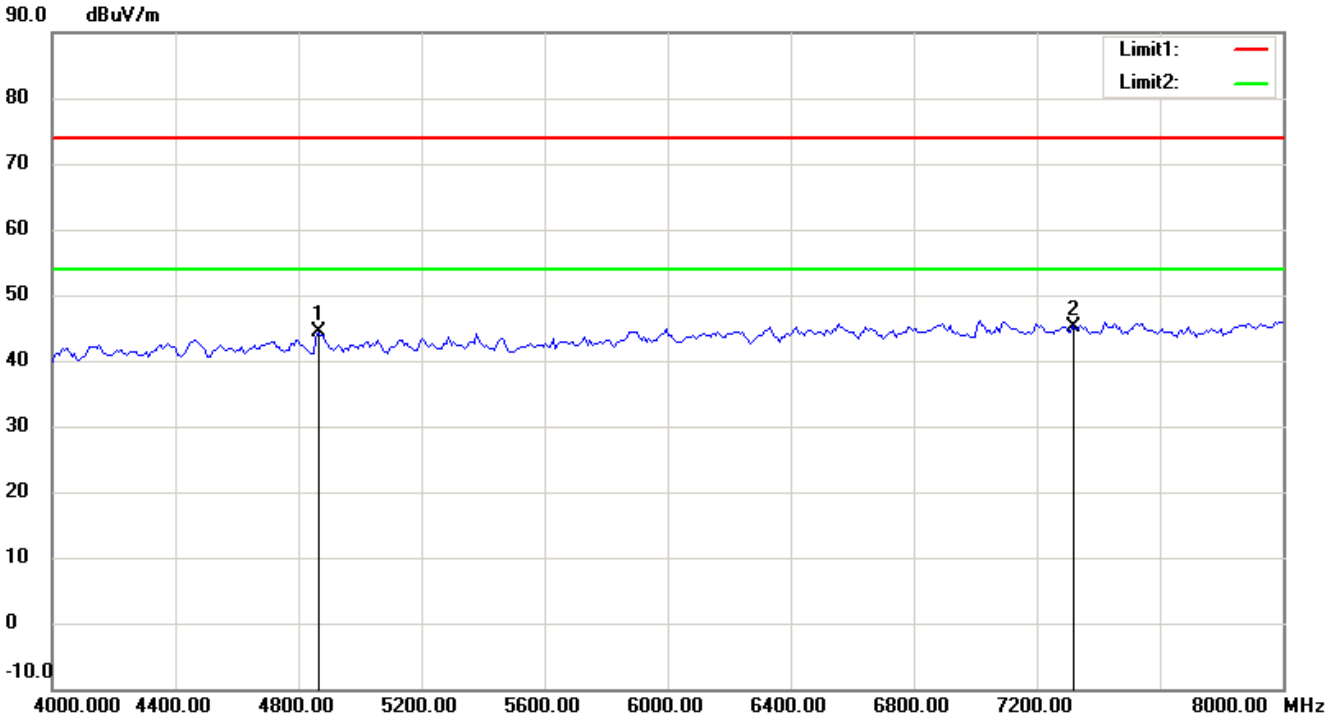
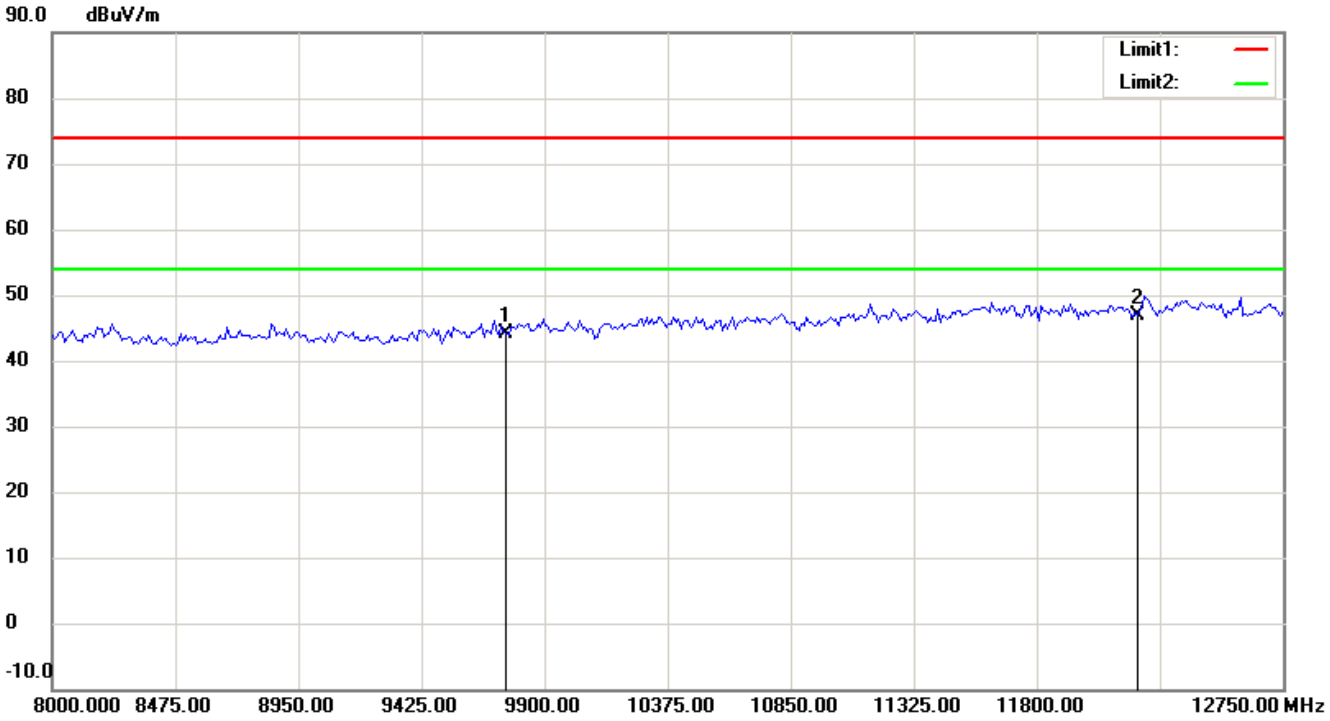
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





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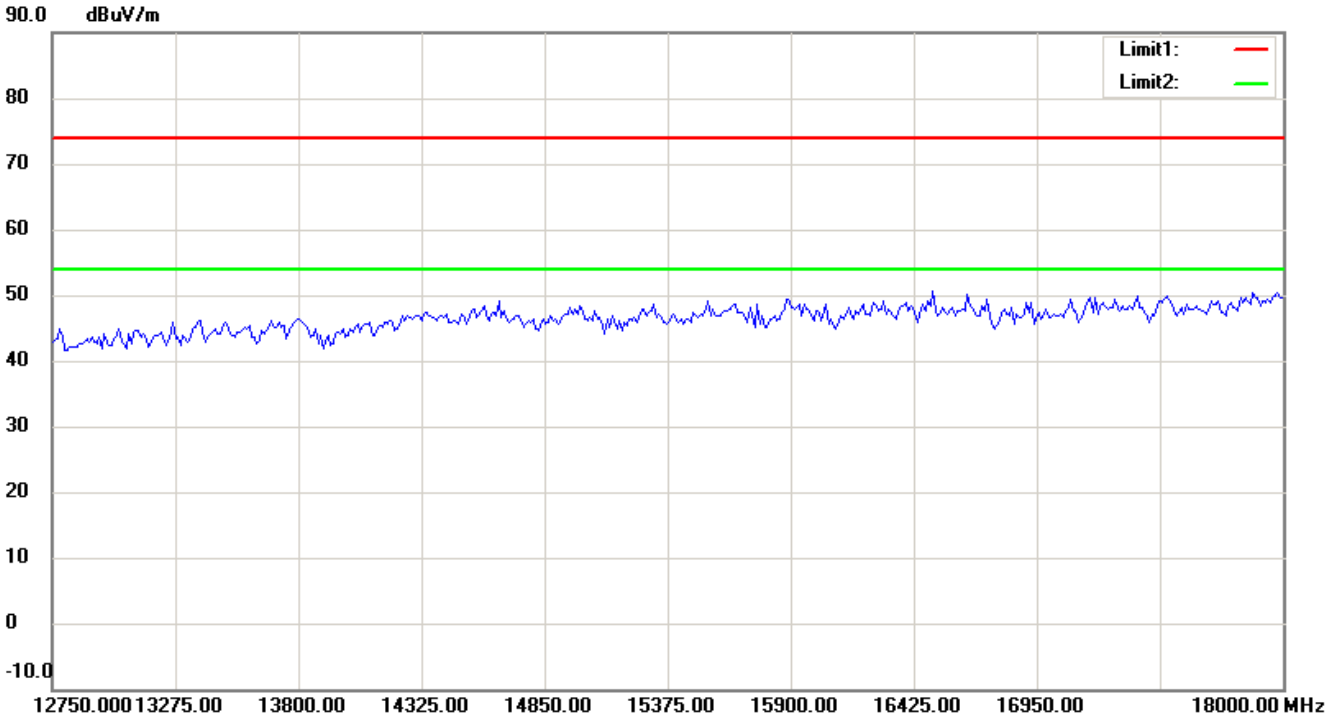

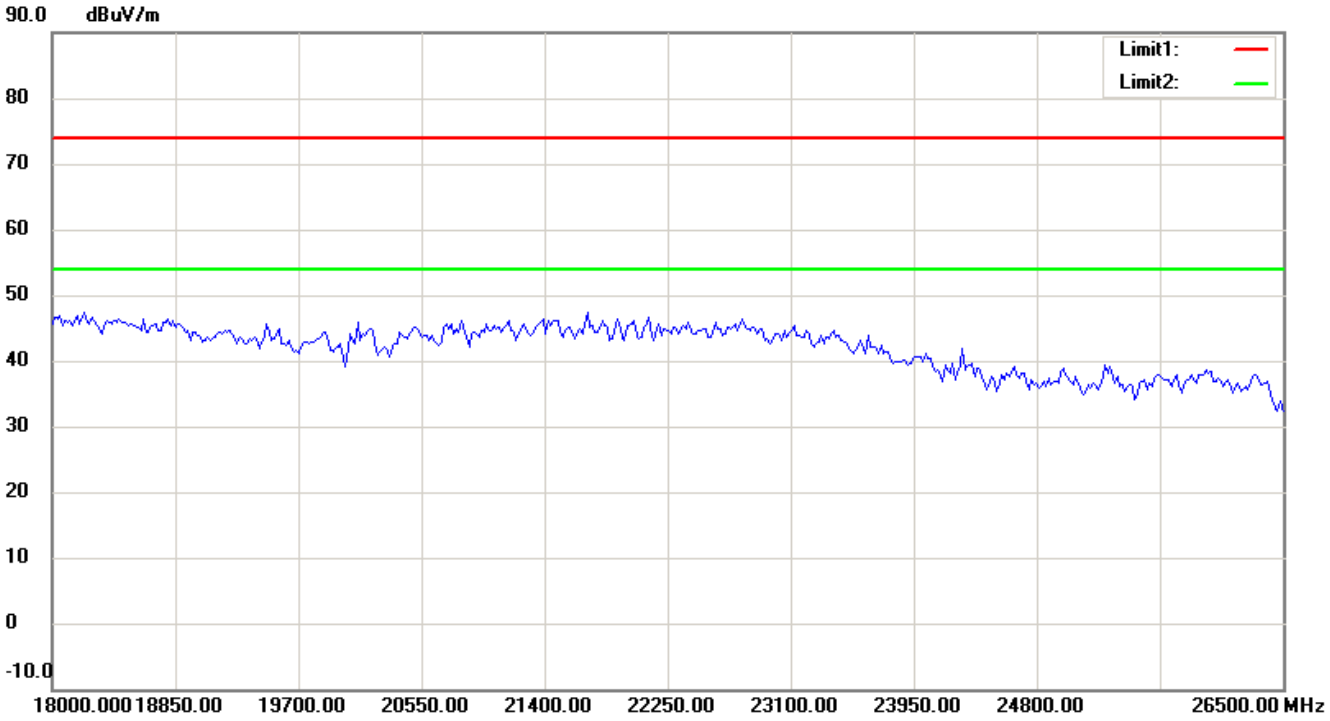

Up Line: Peak Limit Line Down Line: Ave Limit Line
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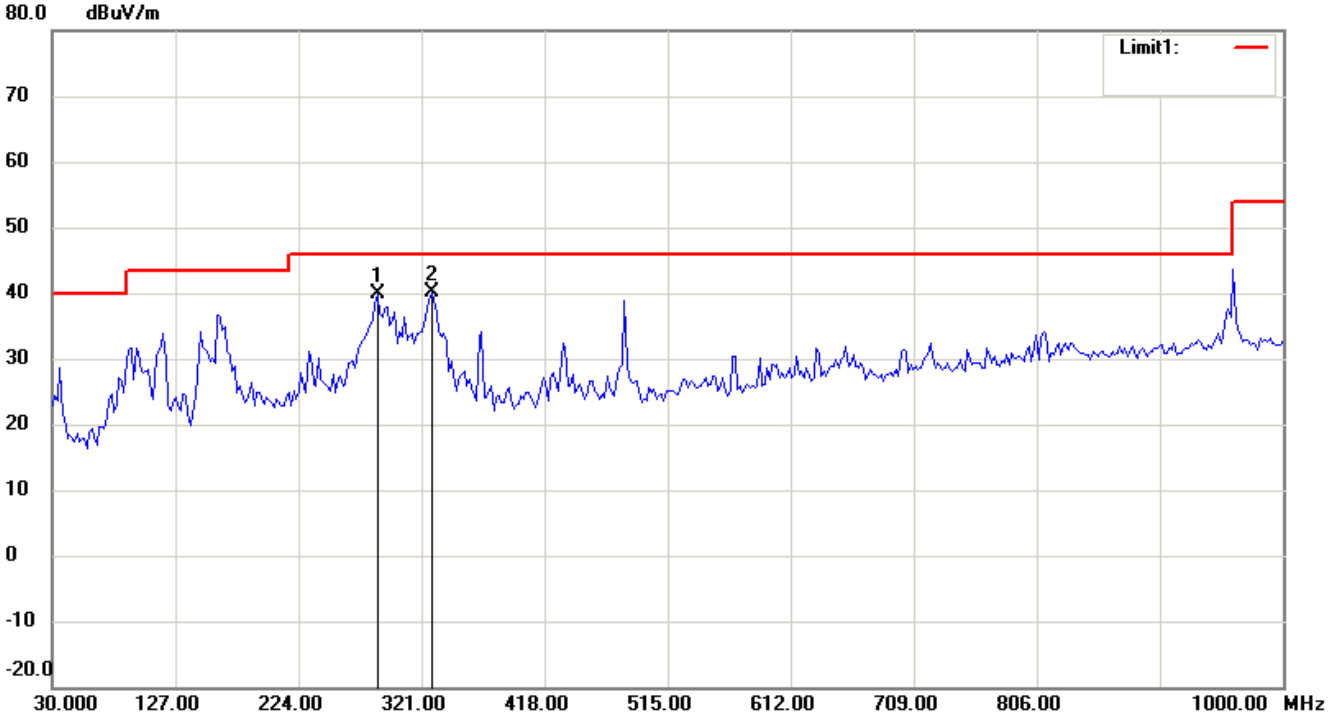
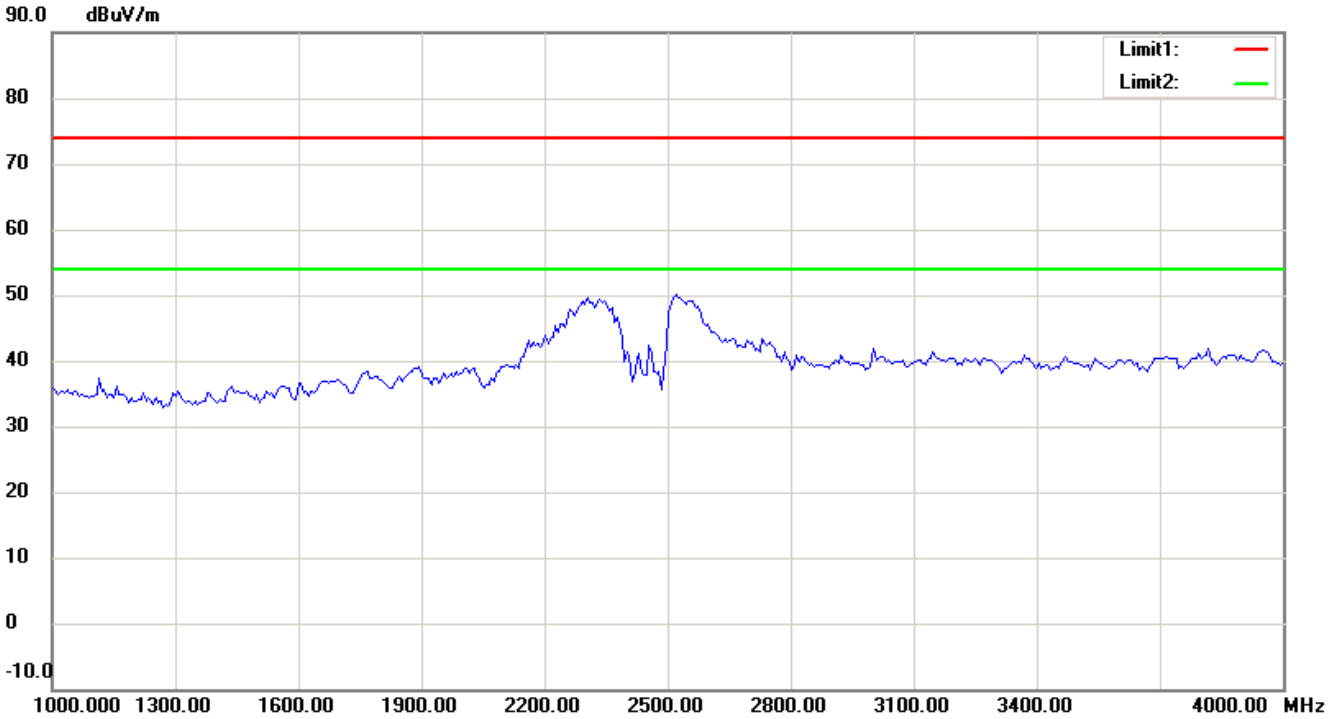
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11g_CH11
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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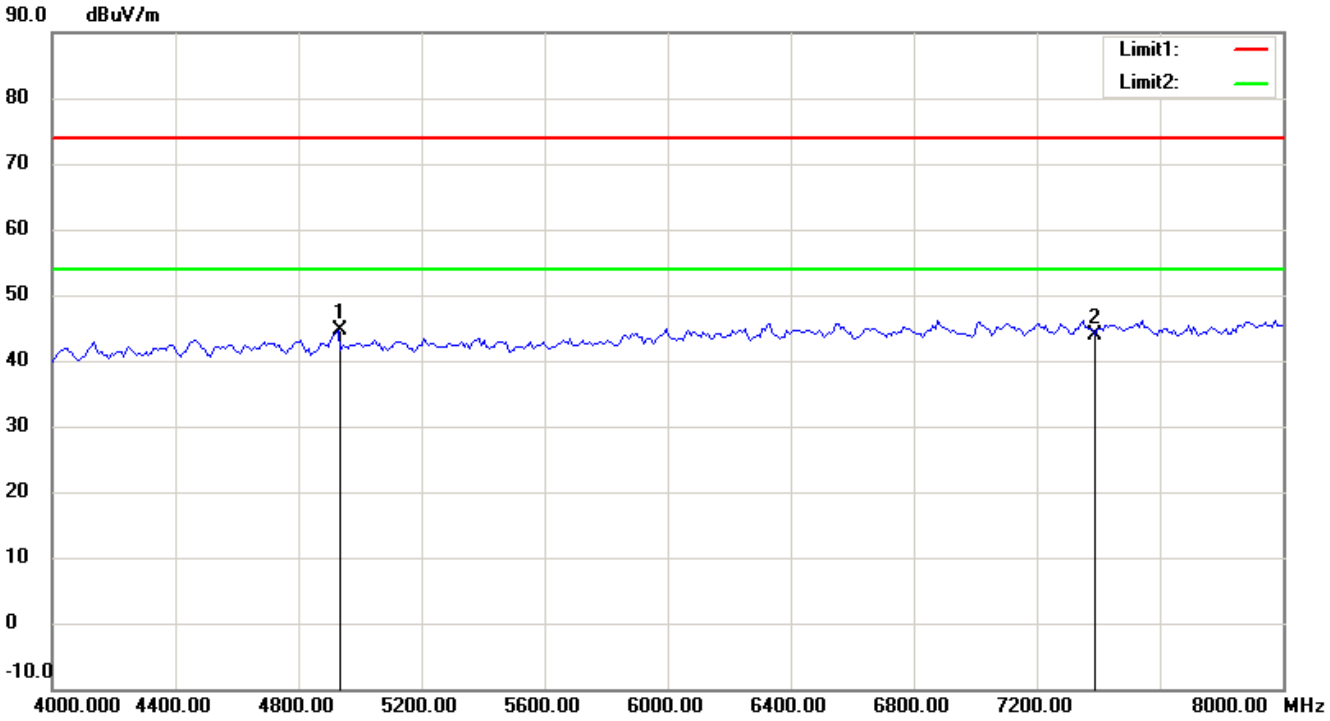

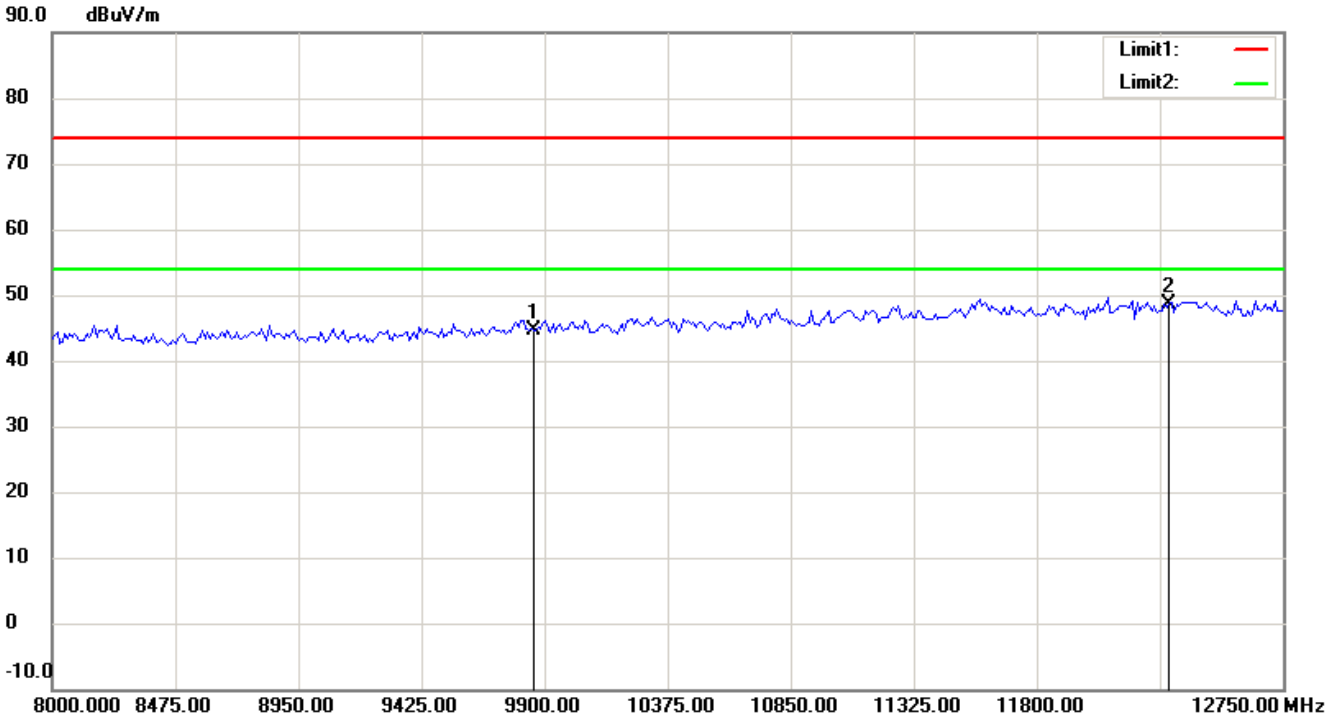

Up Line: Peak Limit Line Down Line: Ave Limit Line
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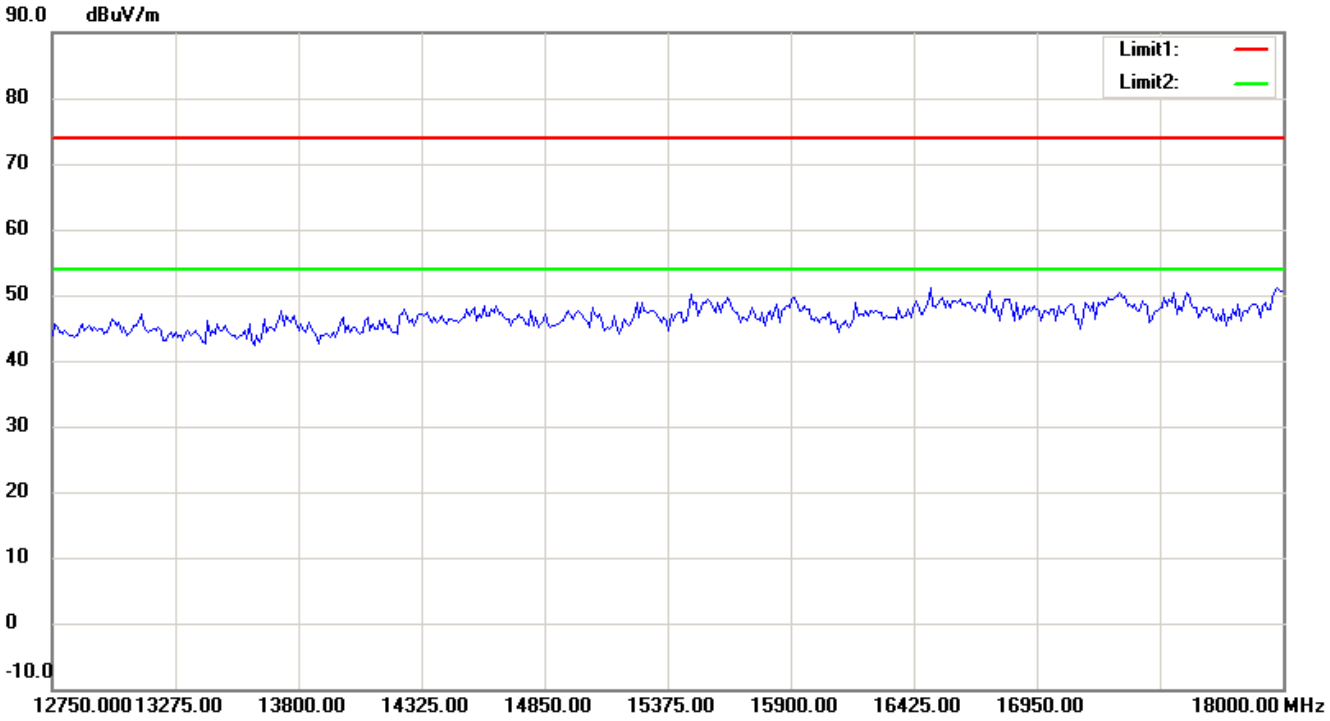

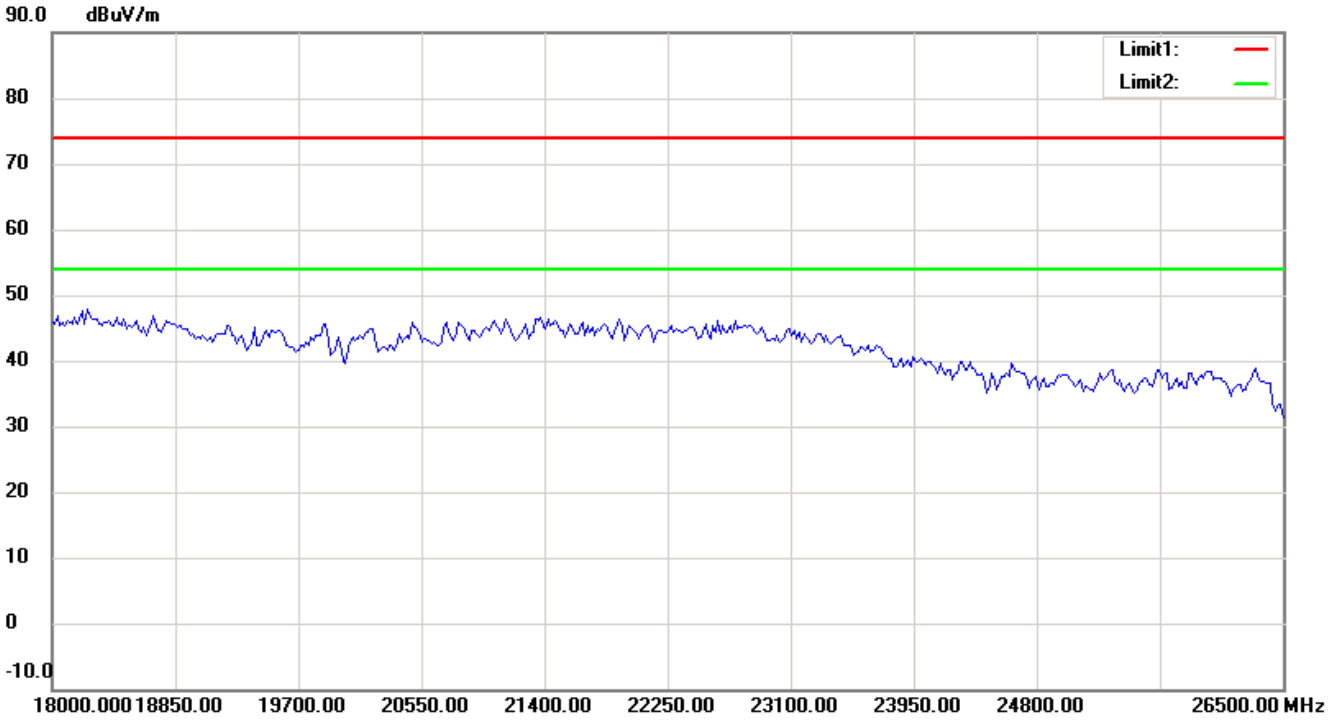

Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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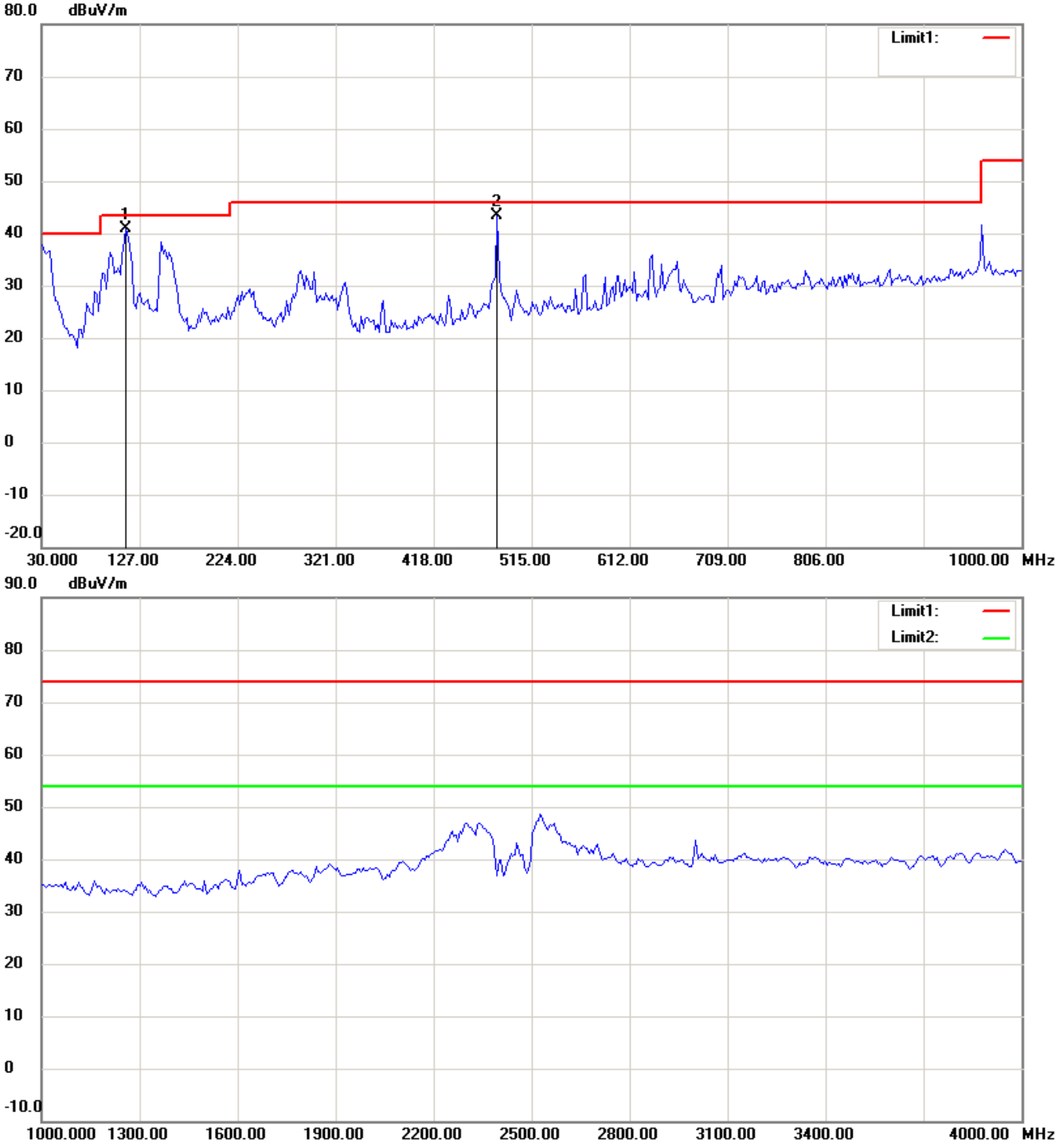
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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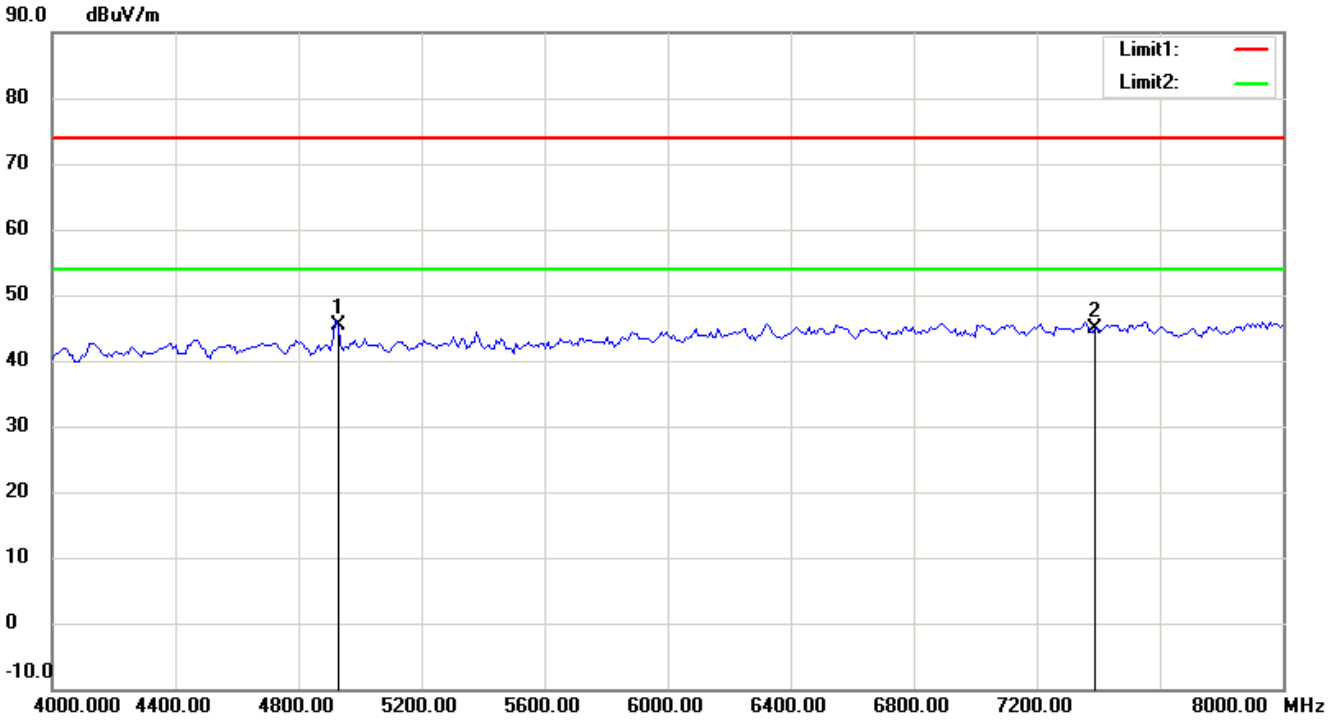
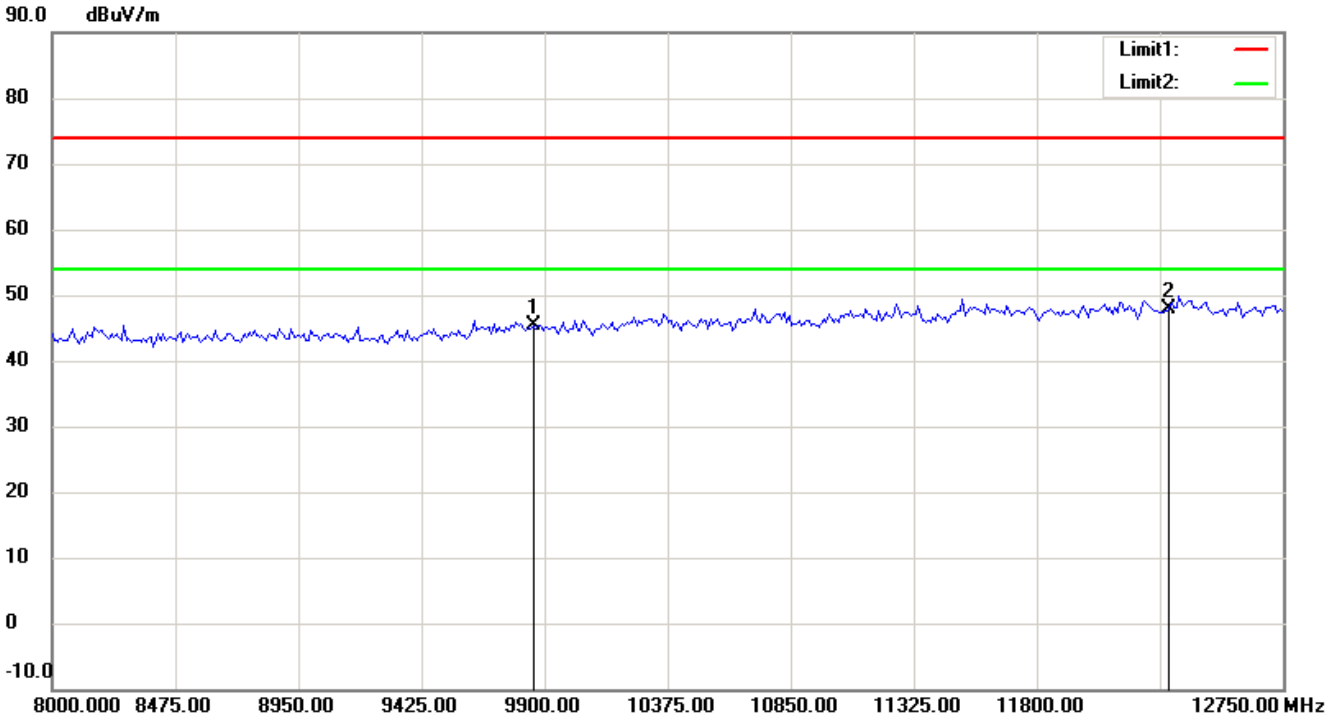
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

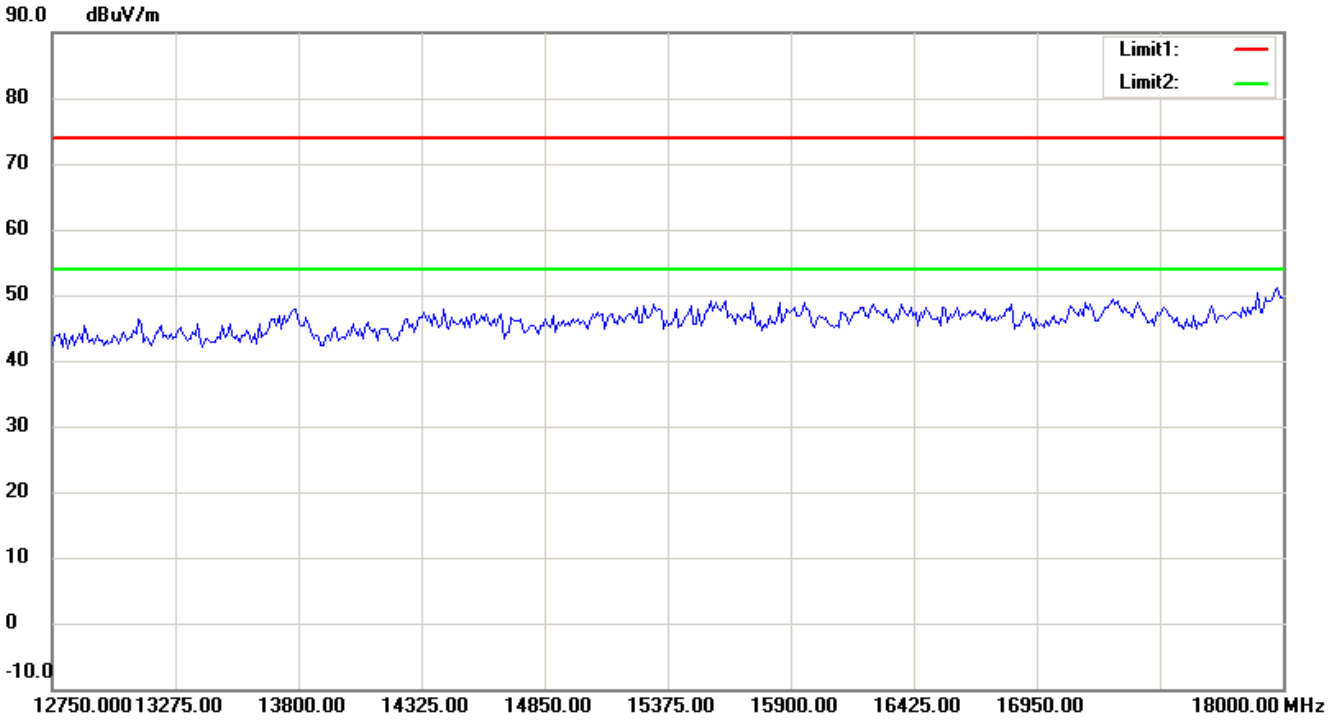


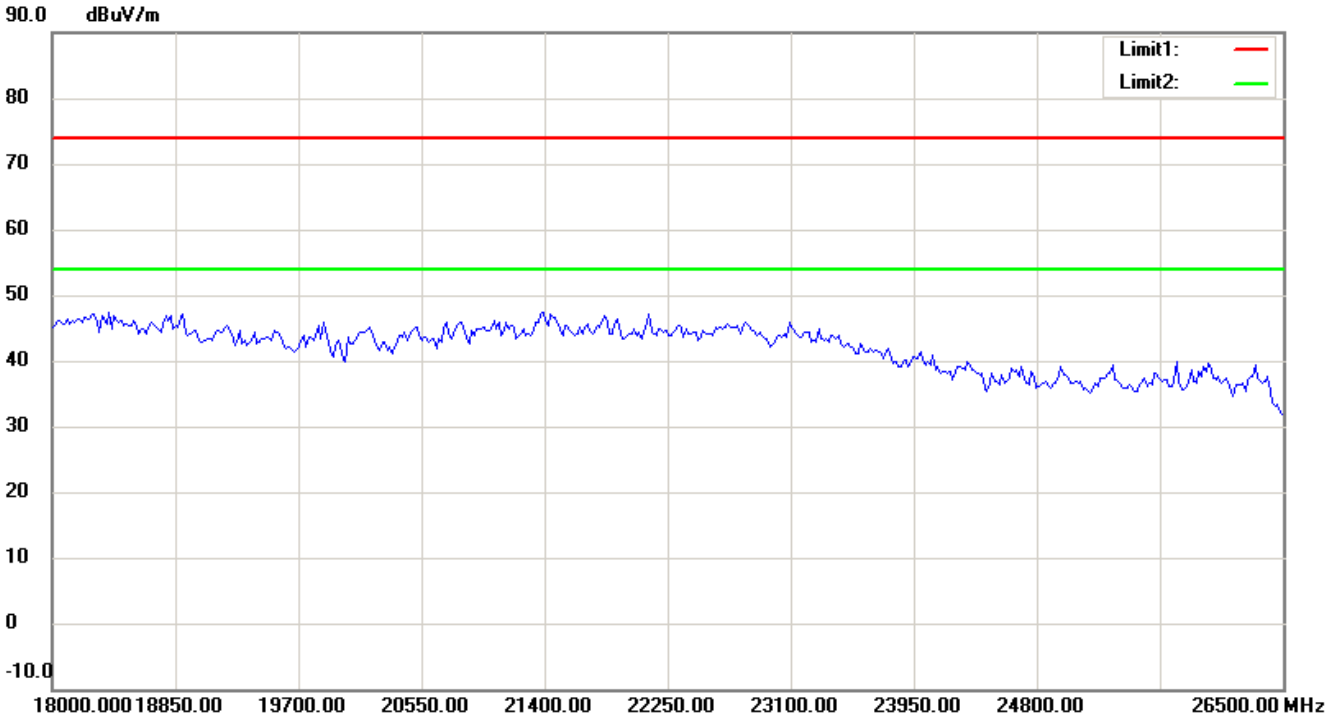


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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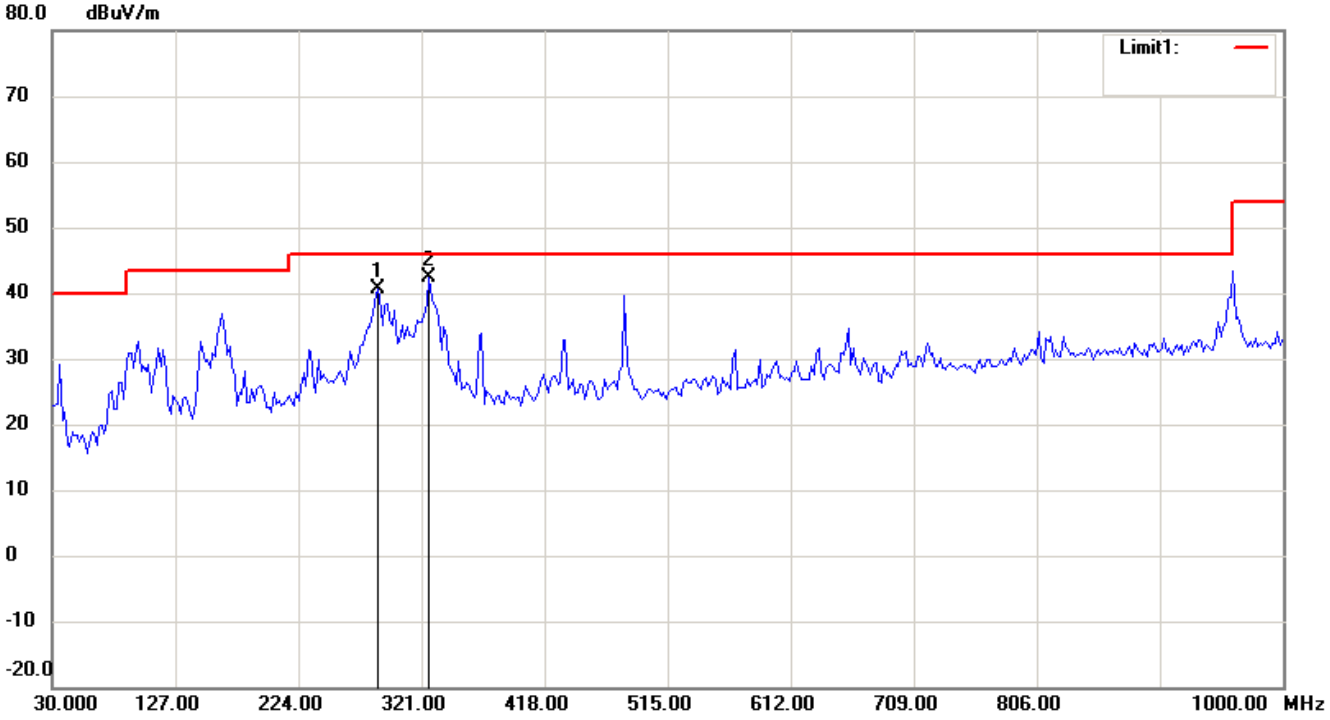
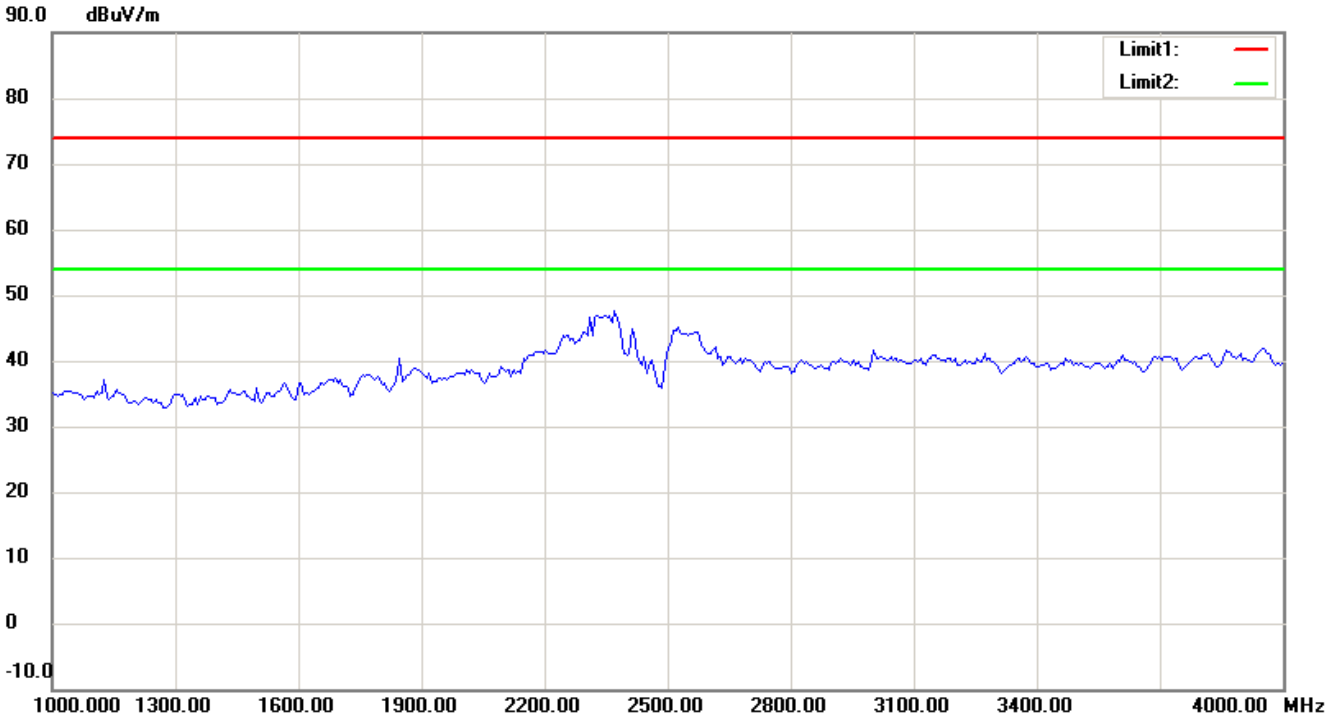
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 20 MHz_CH1
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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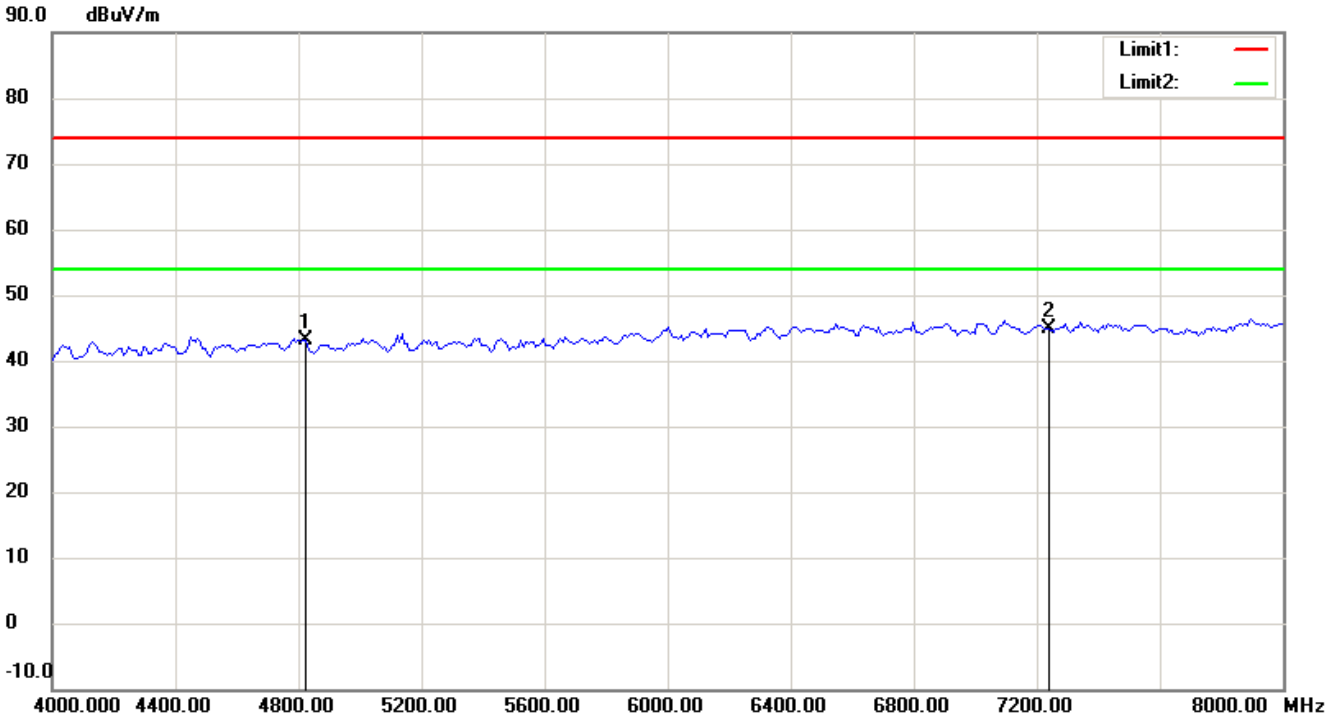
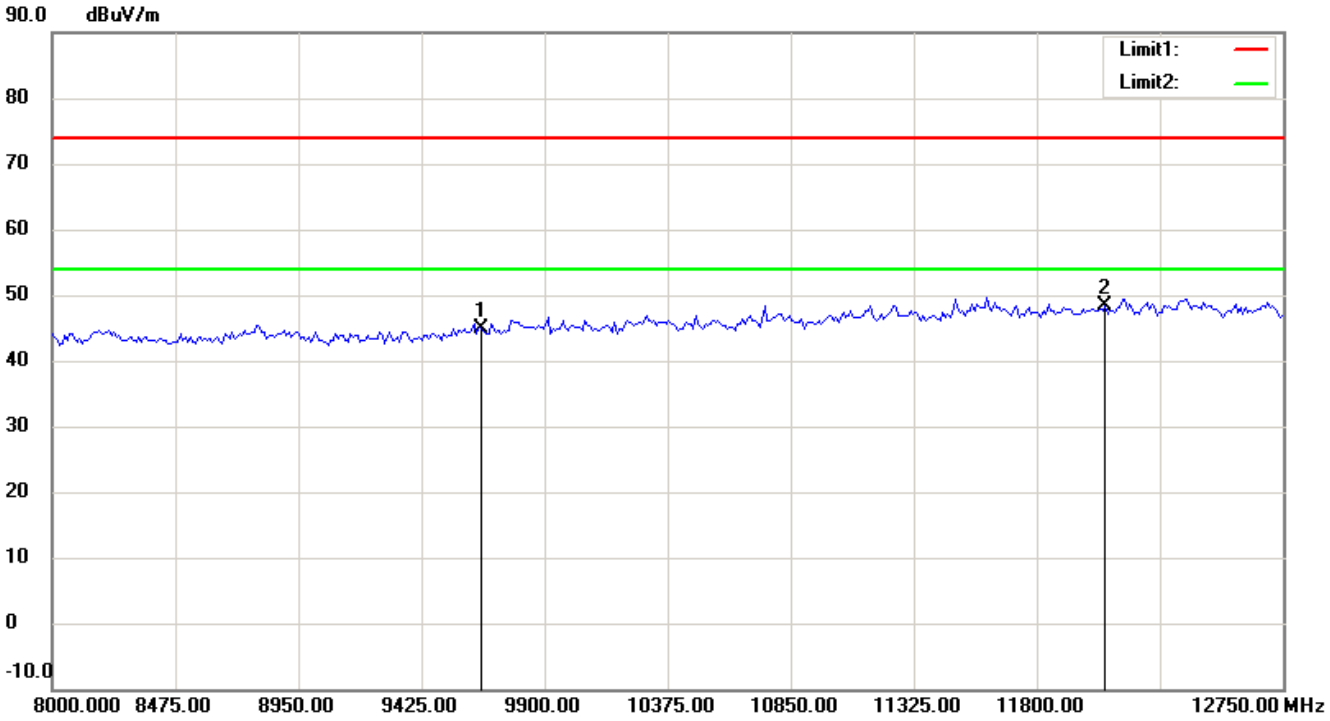
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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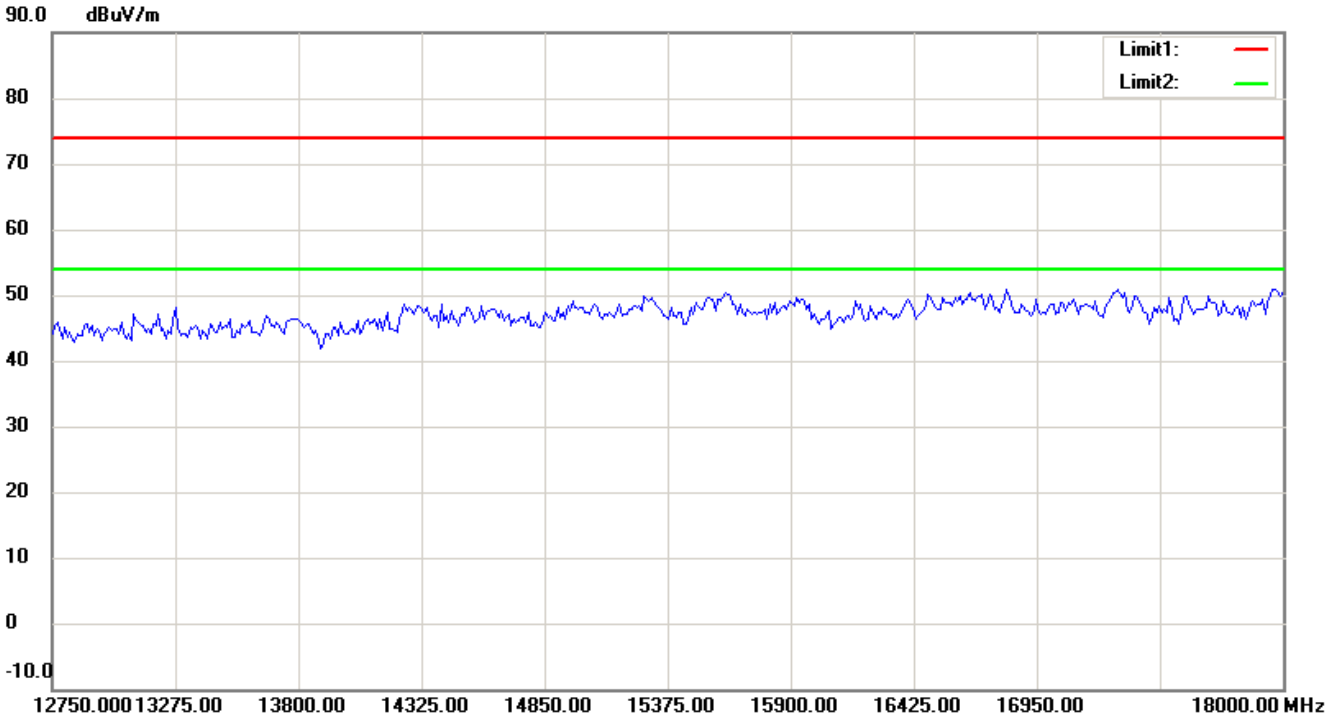
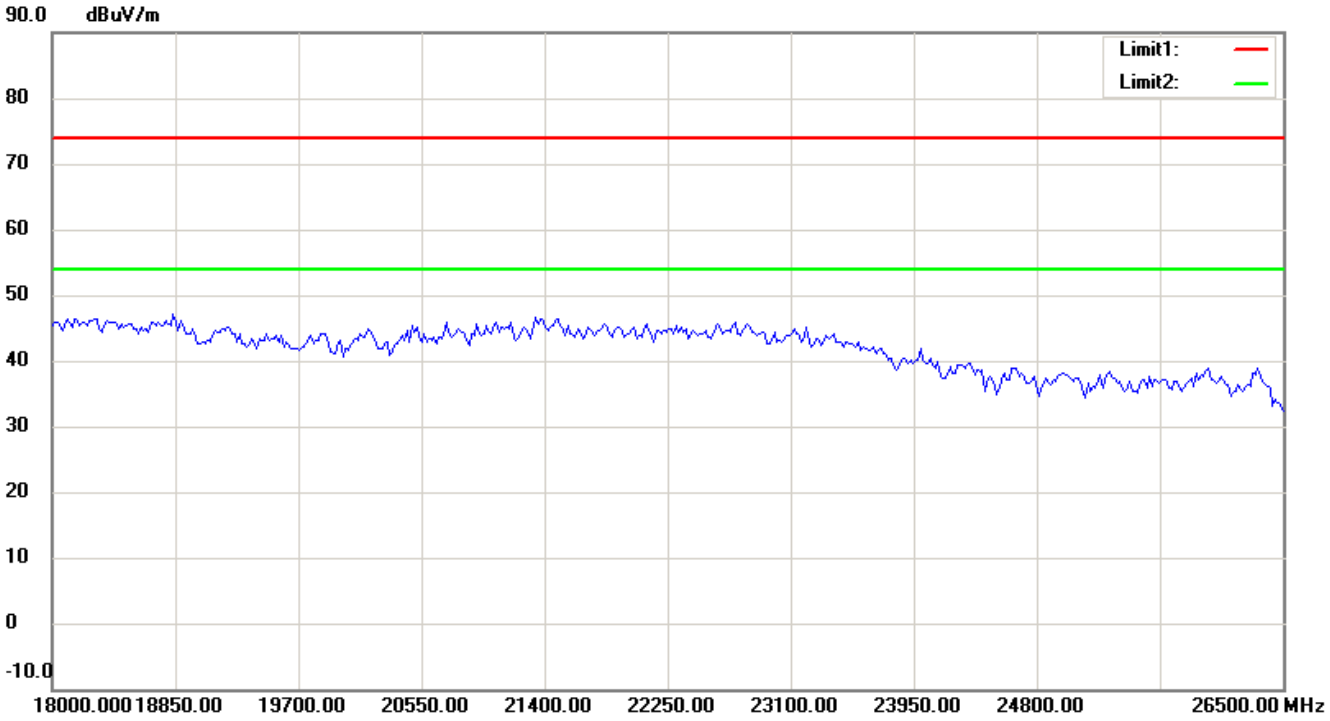
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1



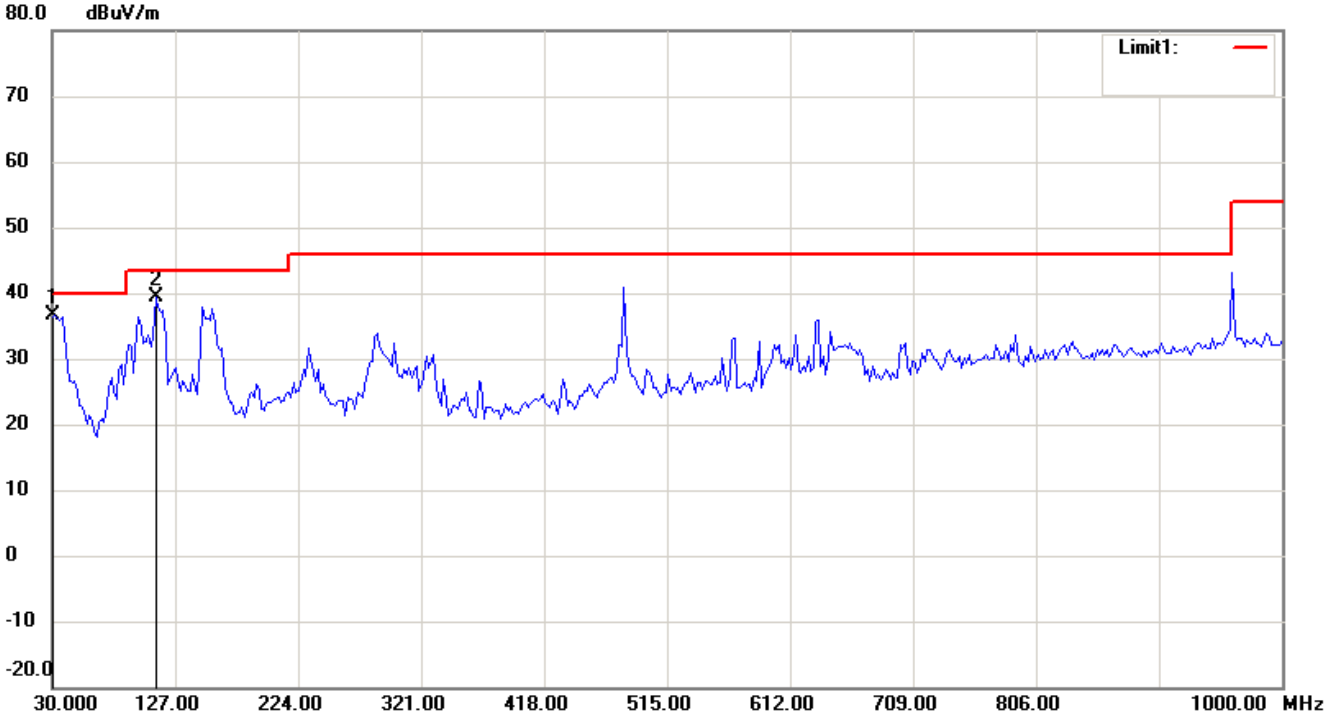


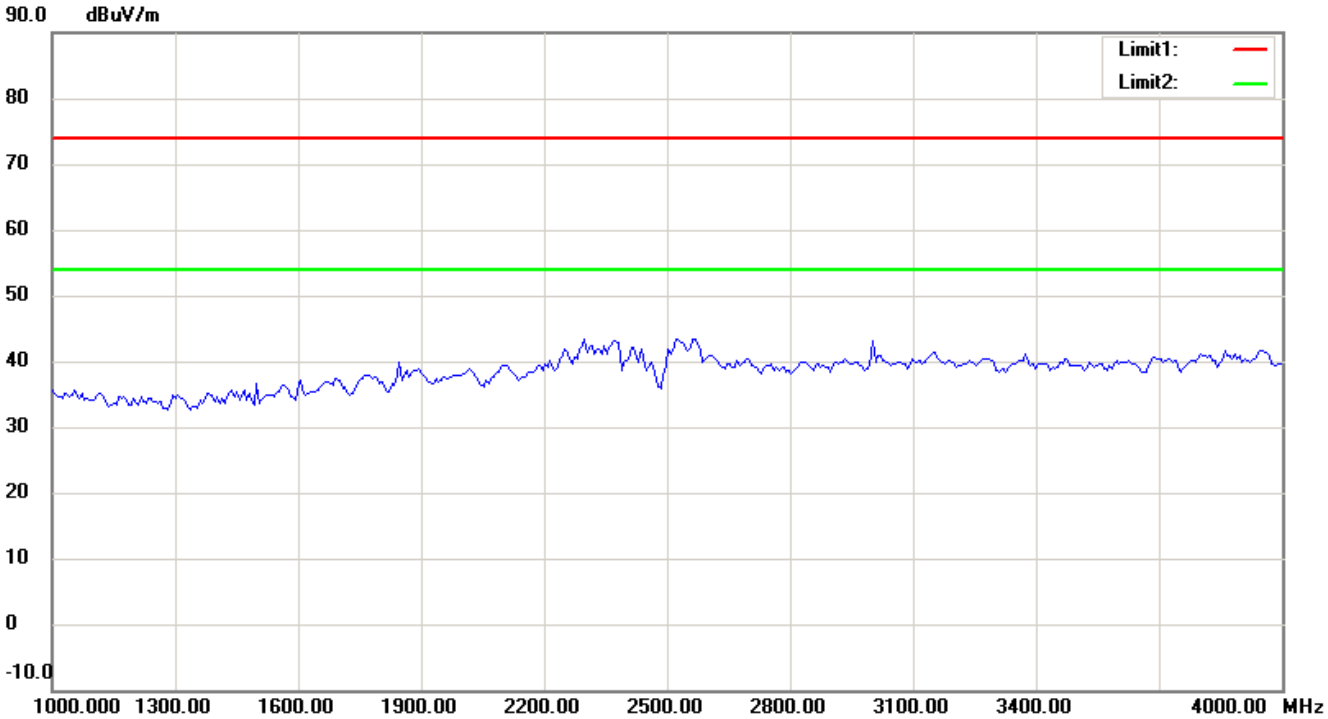
Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V

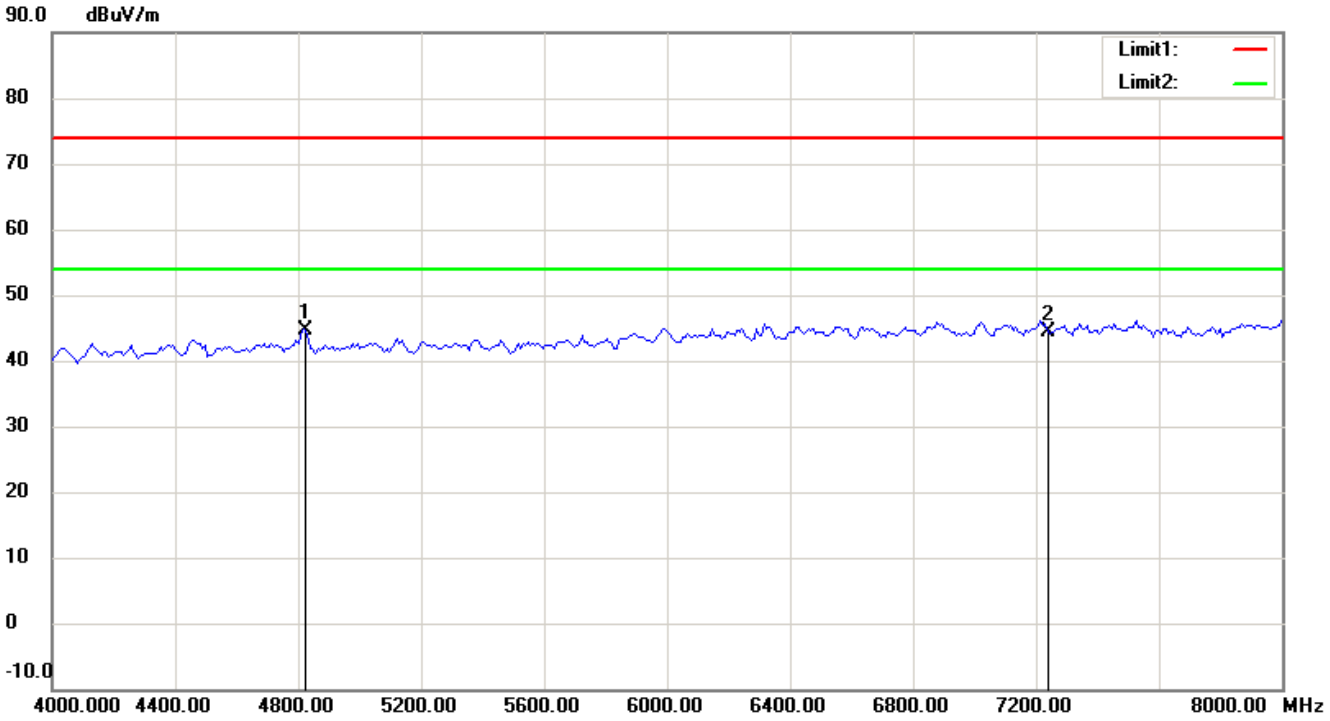


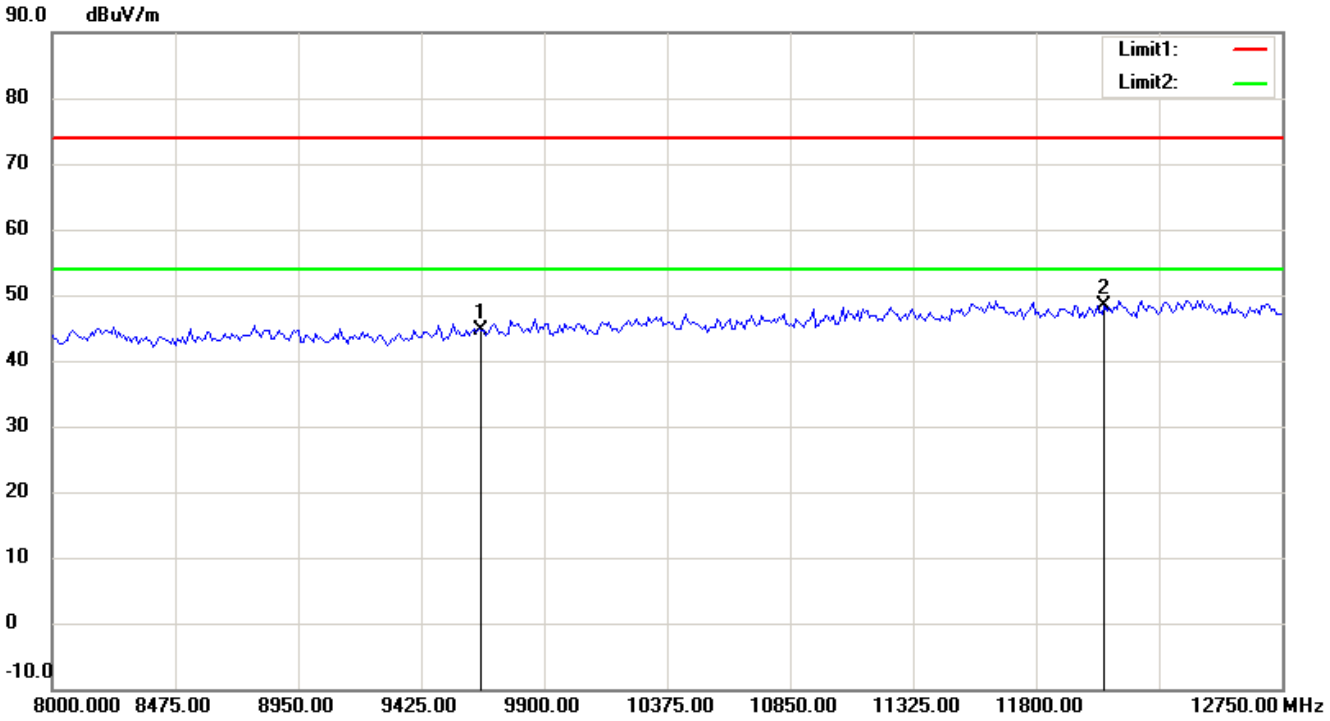


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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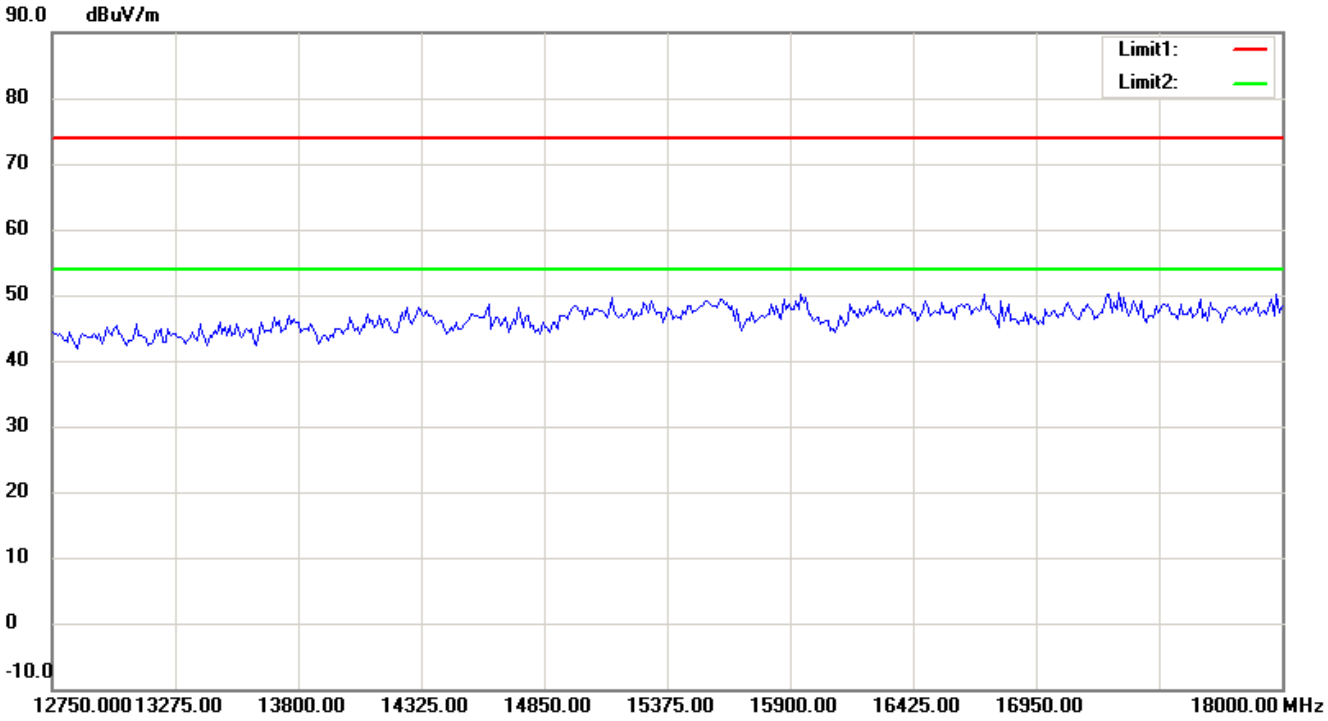
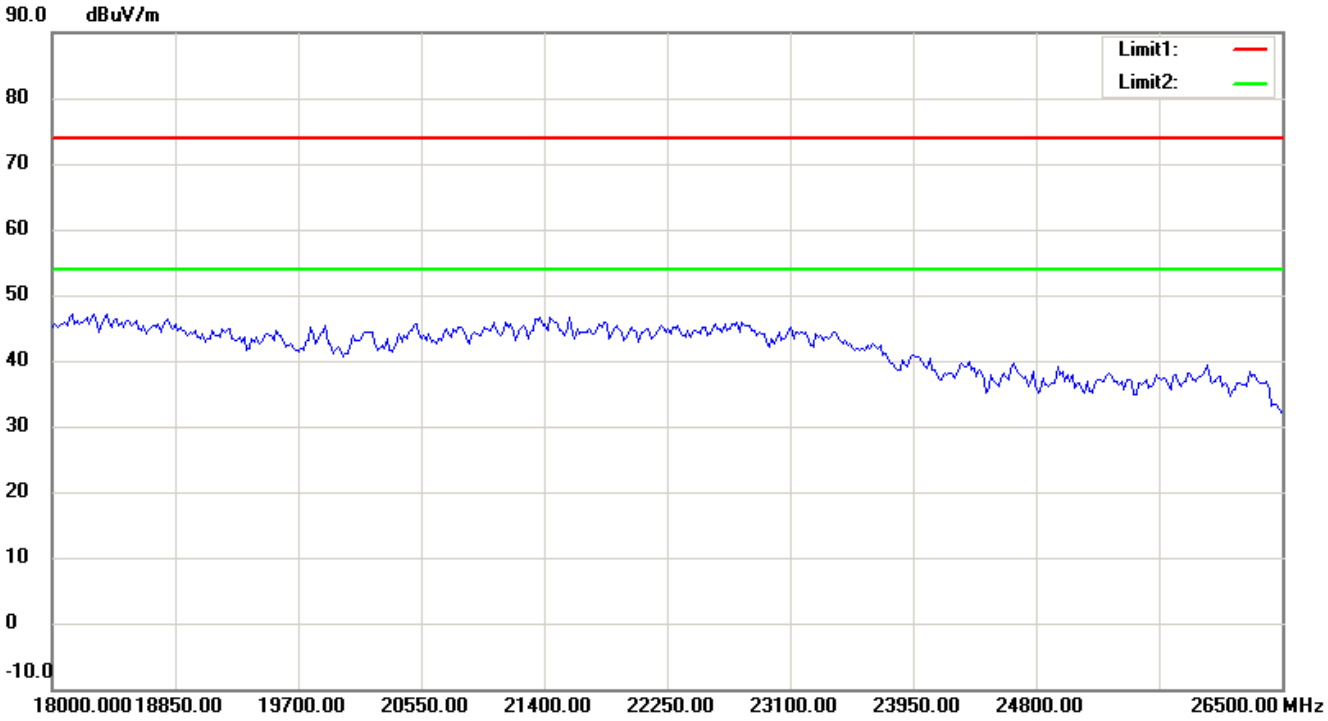
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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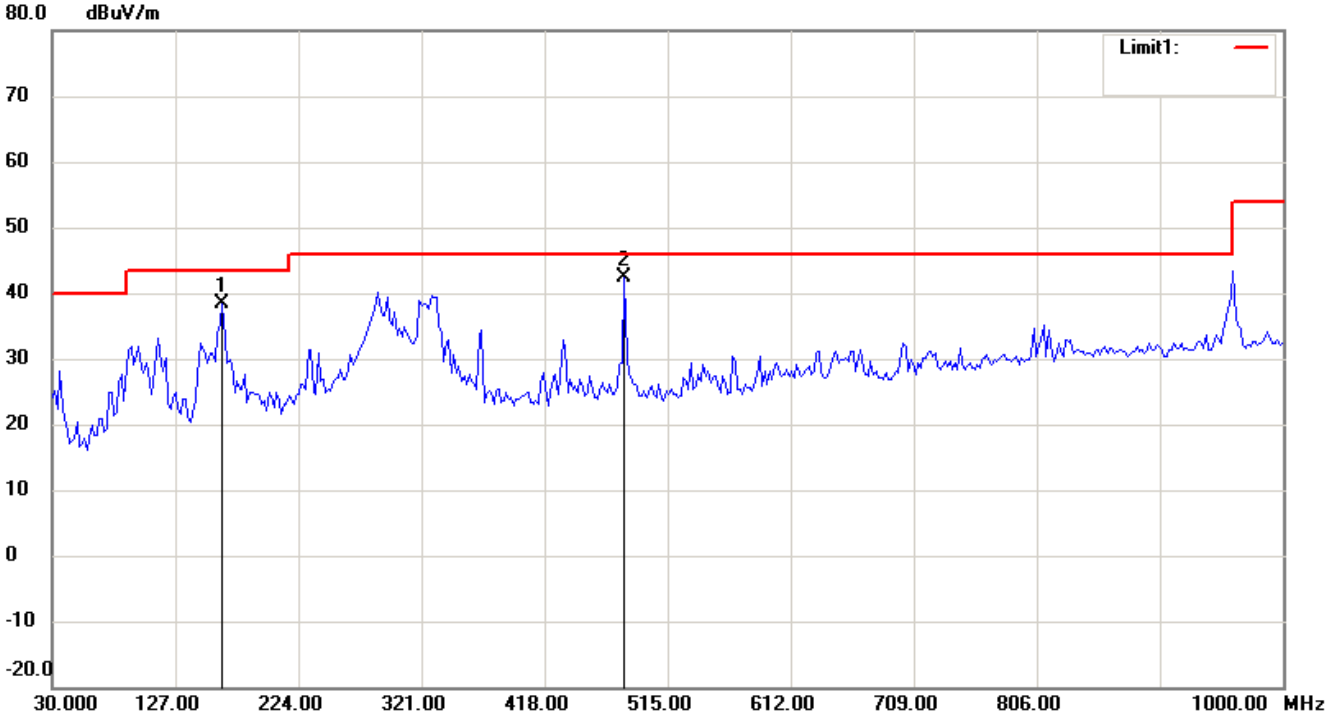
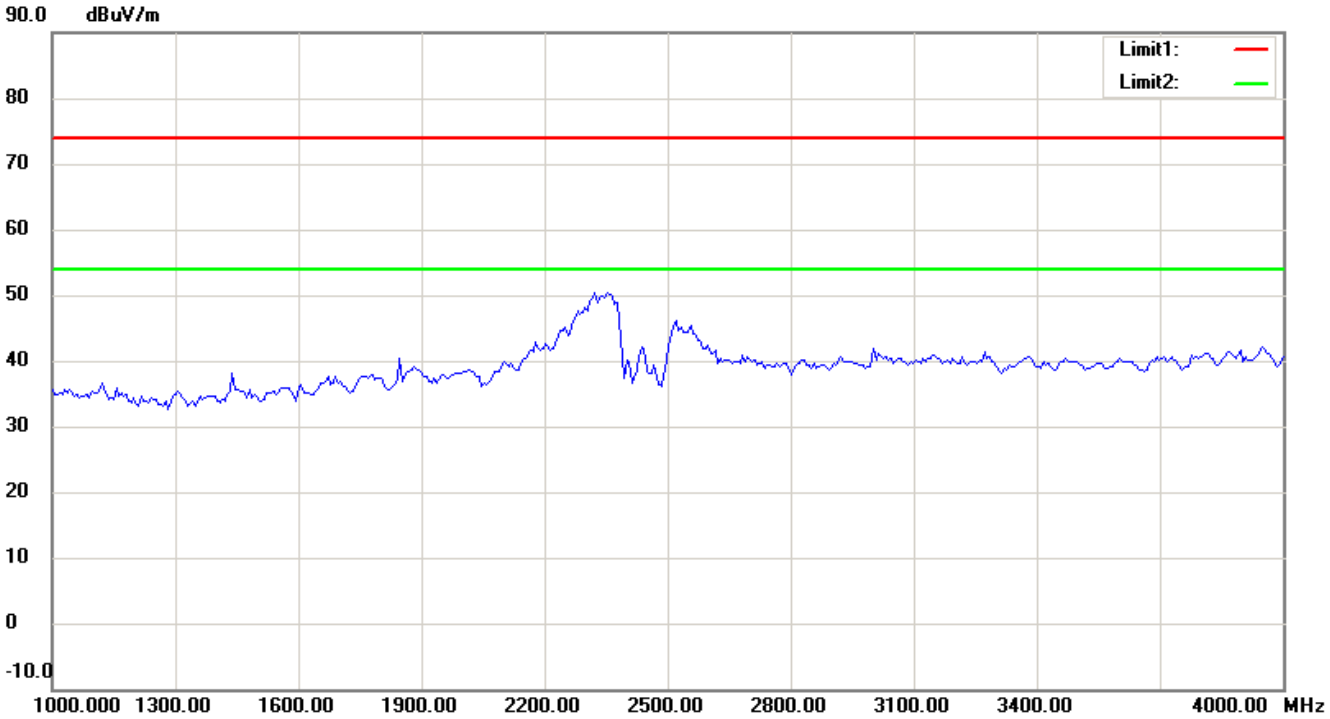
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 20 MHz_CH6
Antenna Polarization H

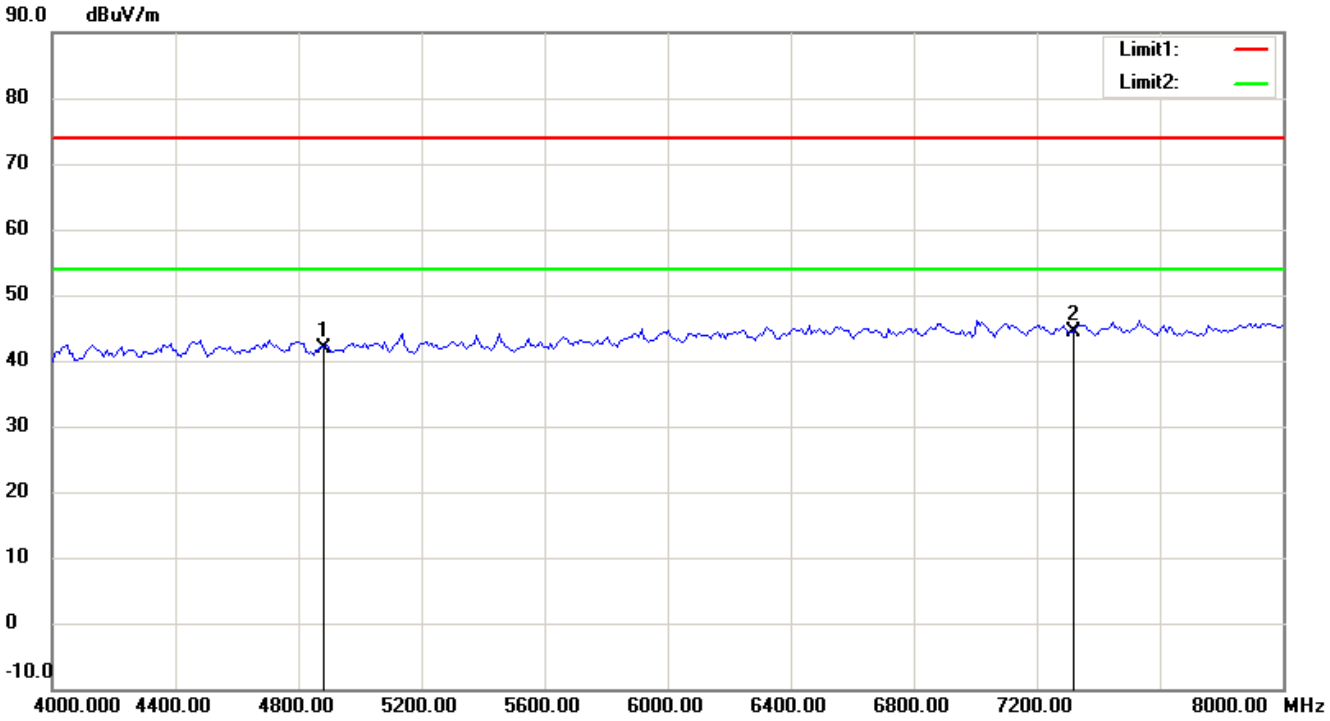


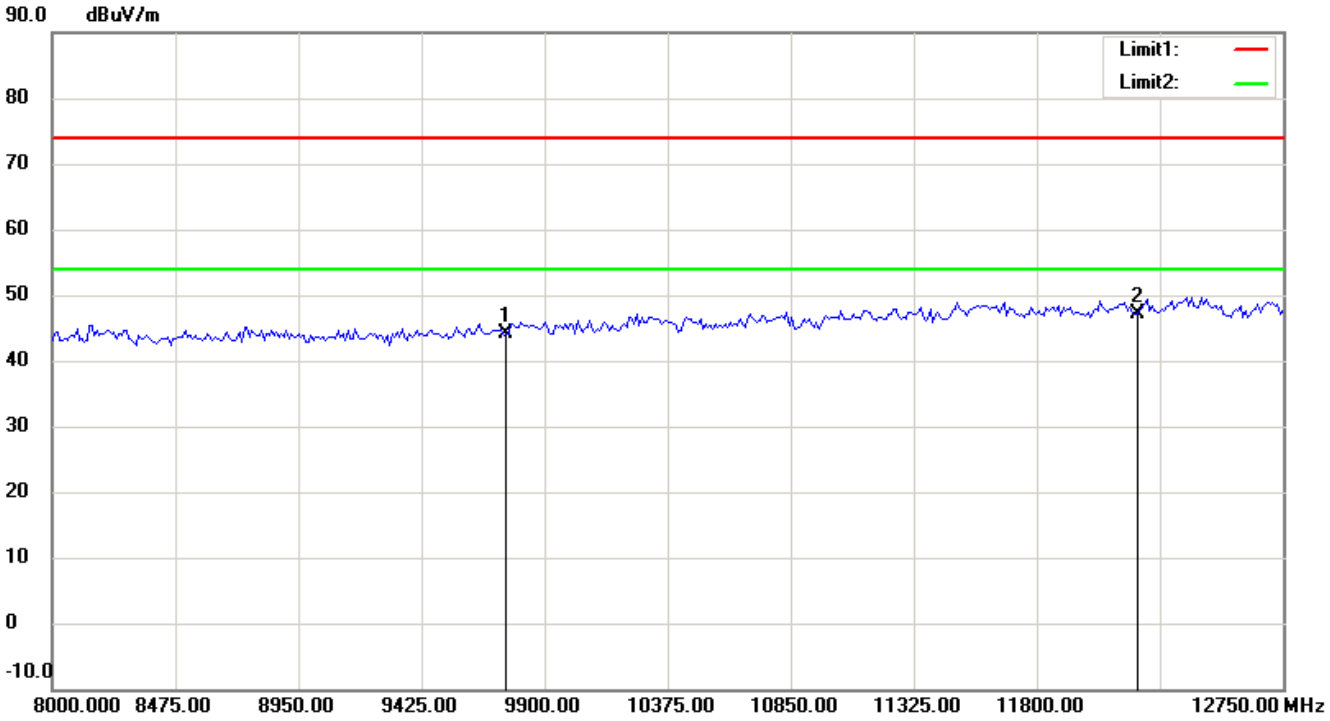


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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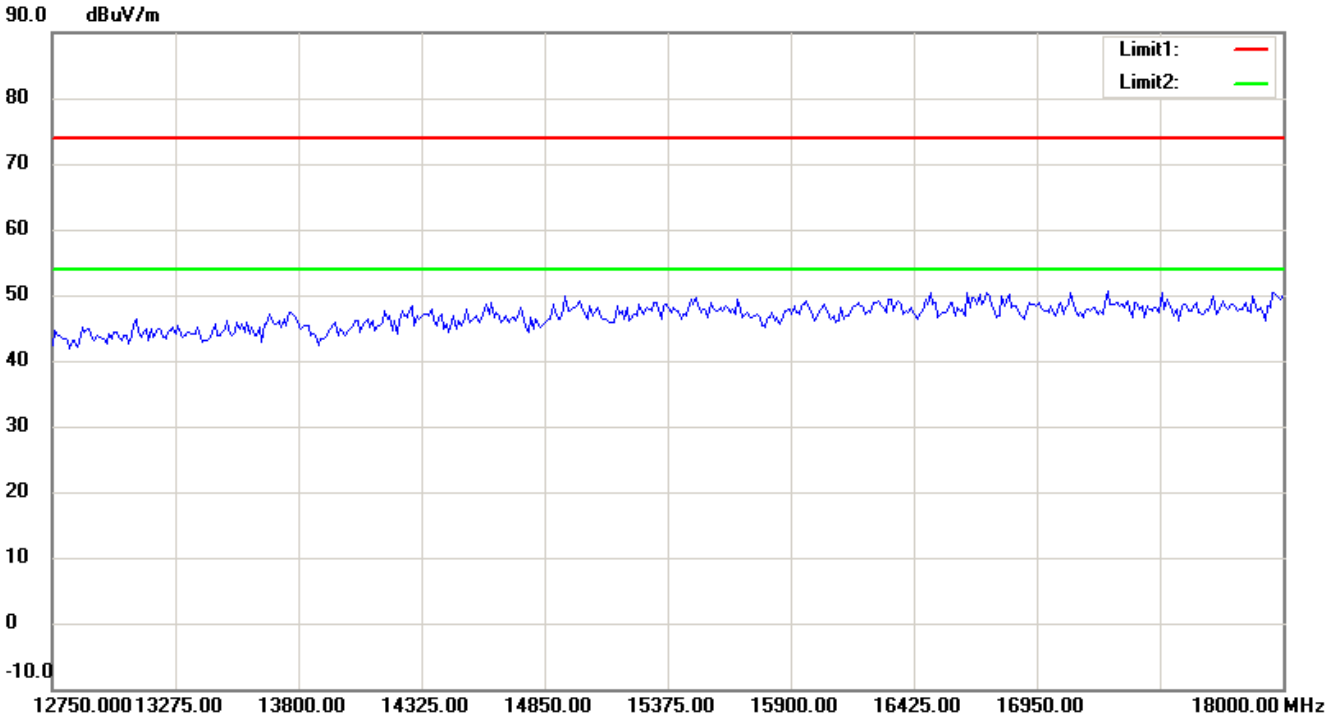
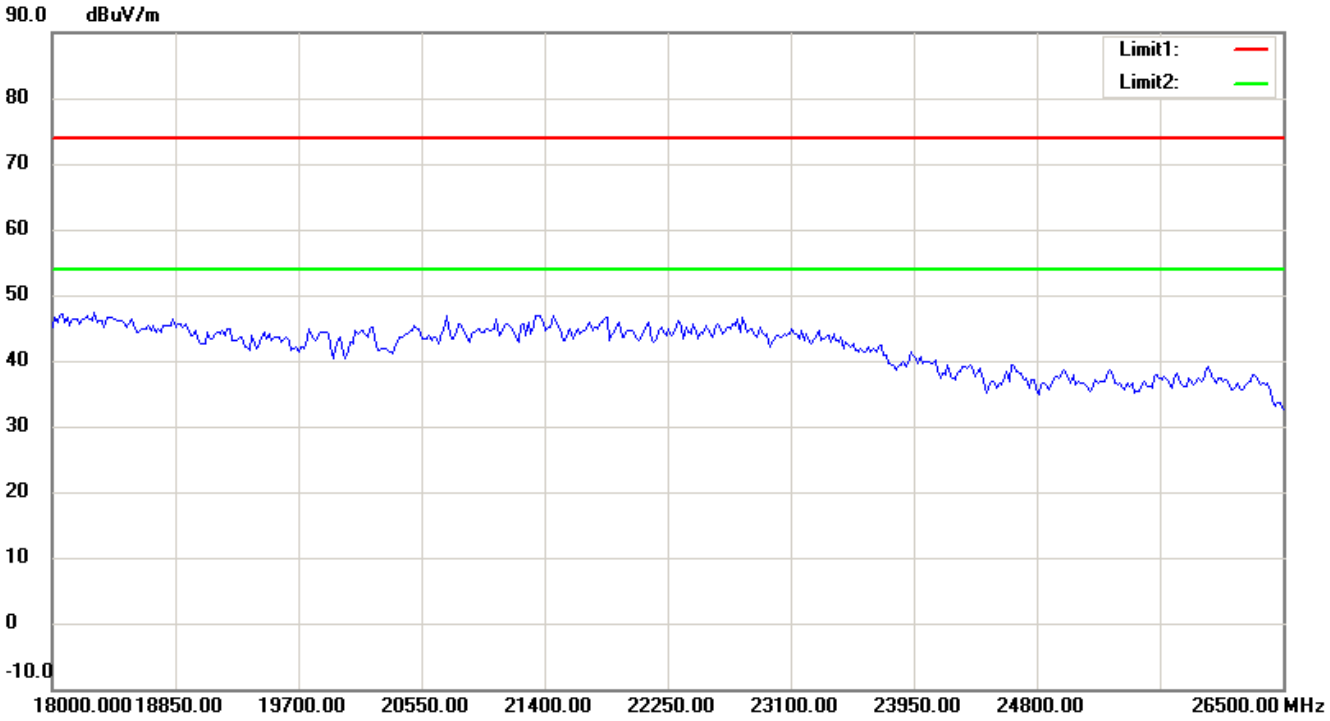
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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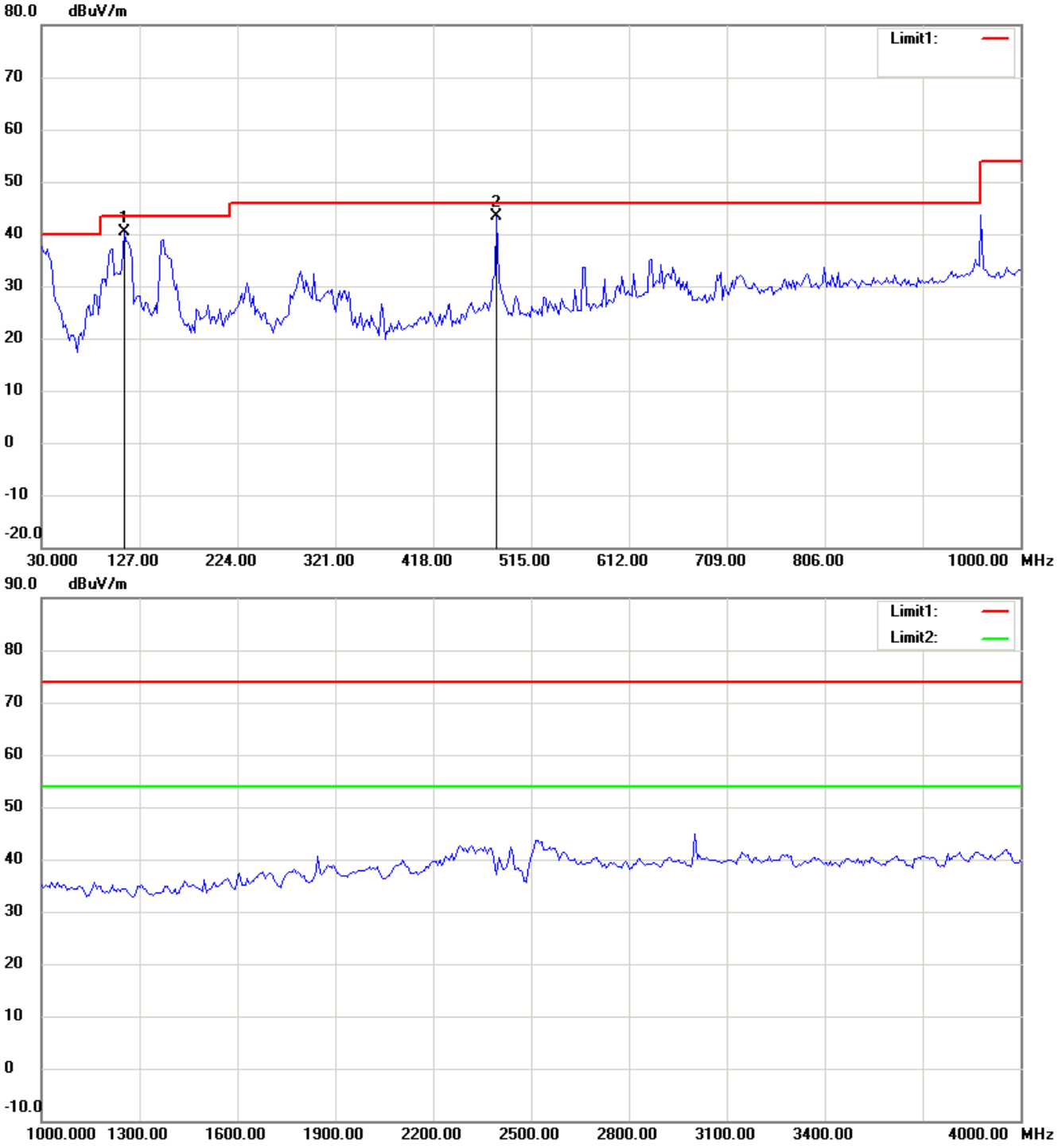
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

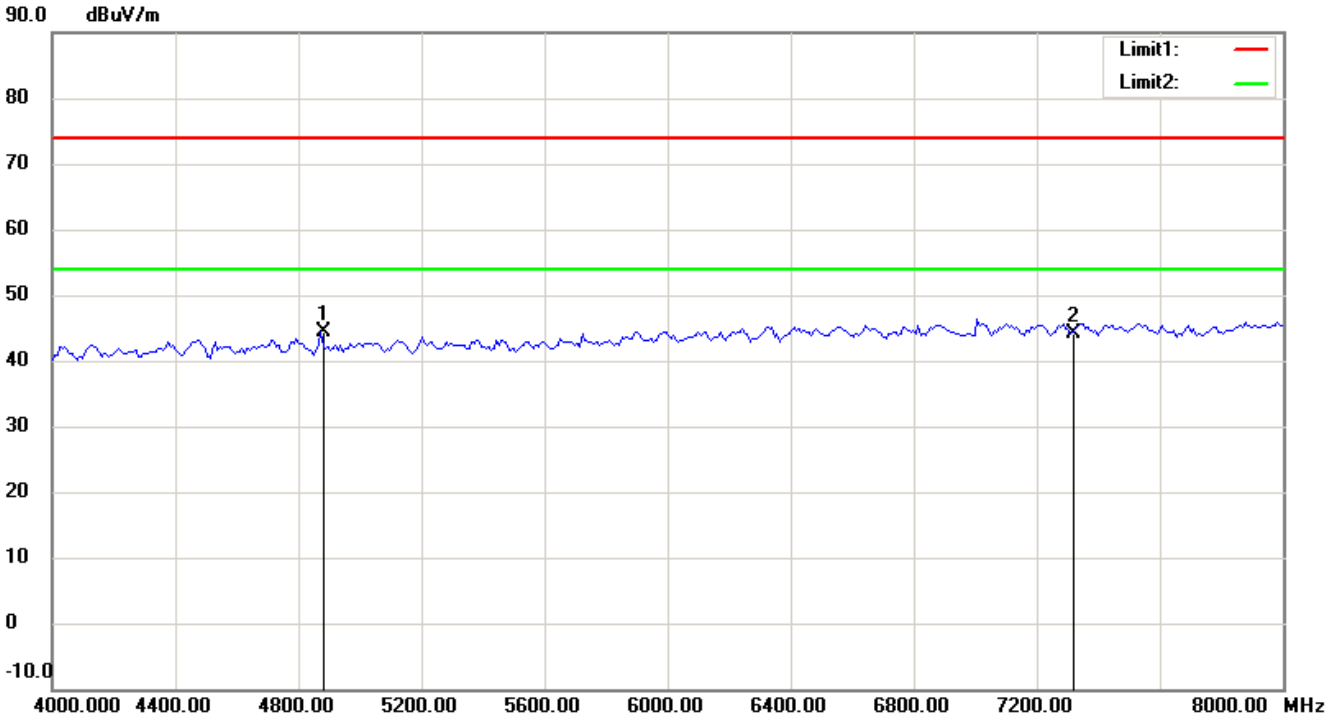
Antenna Polarization V

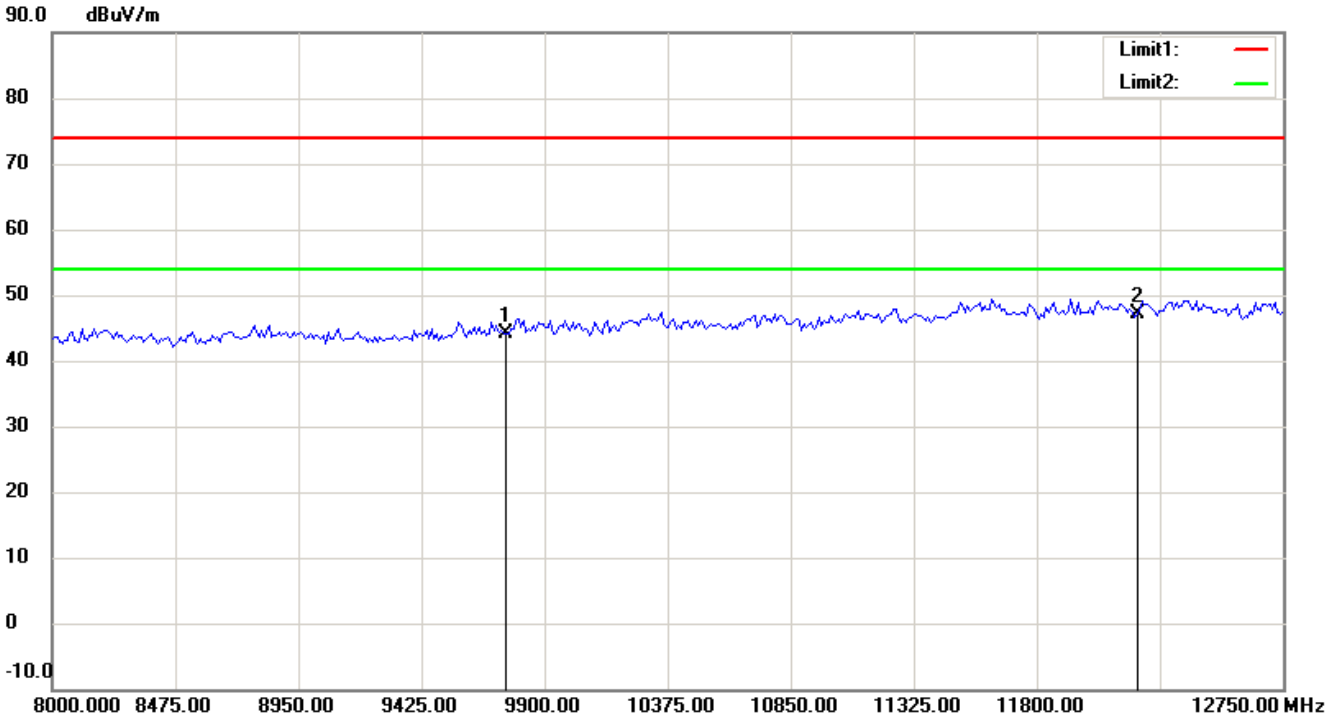


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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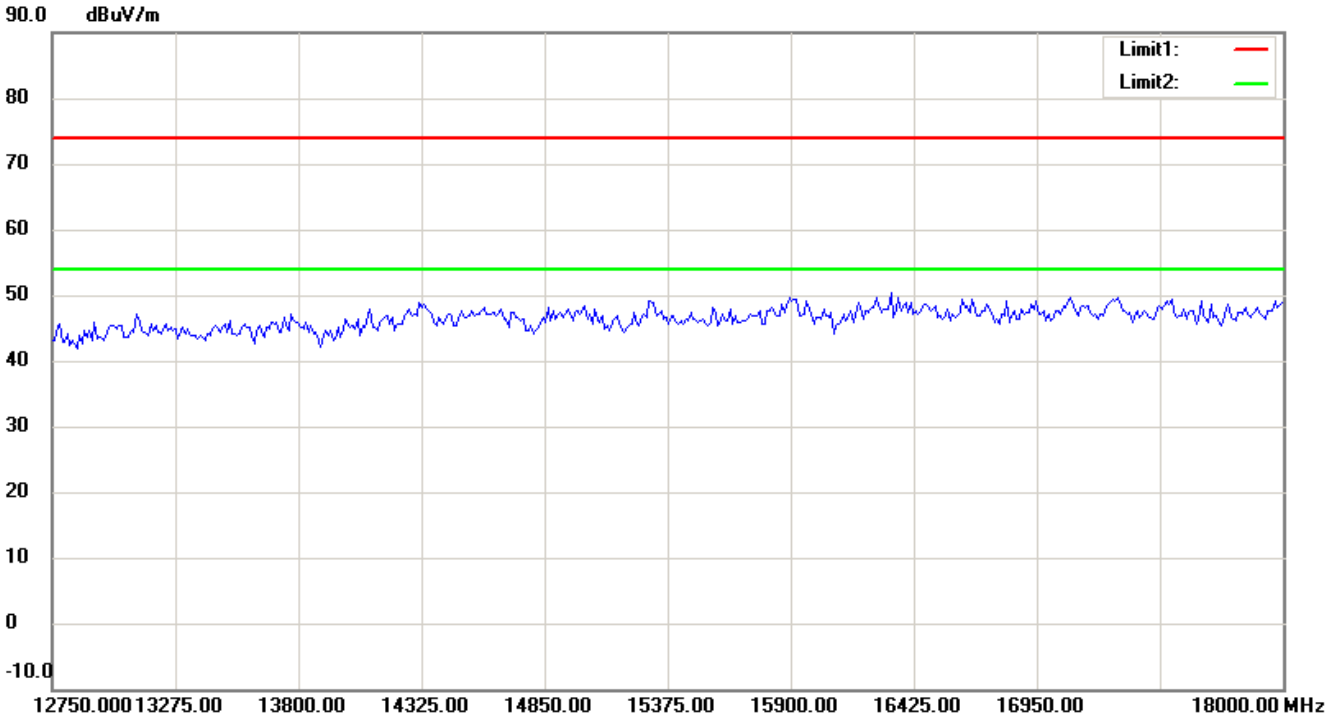
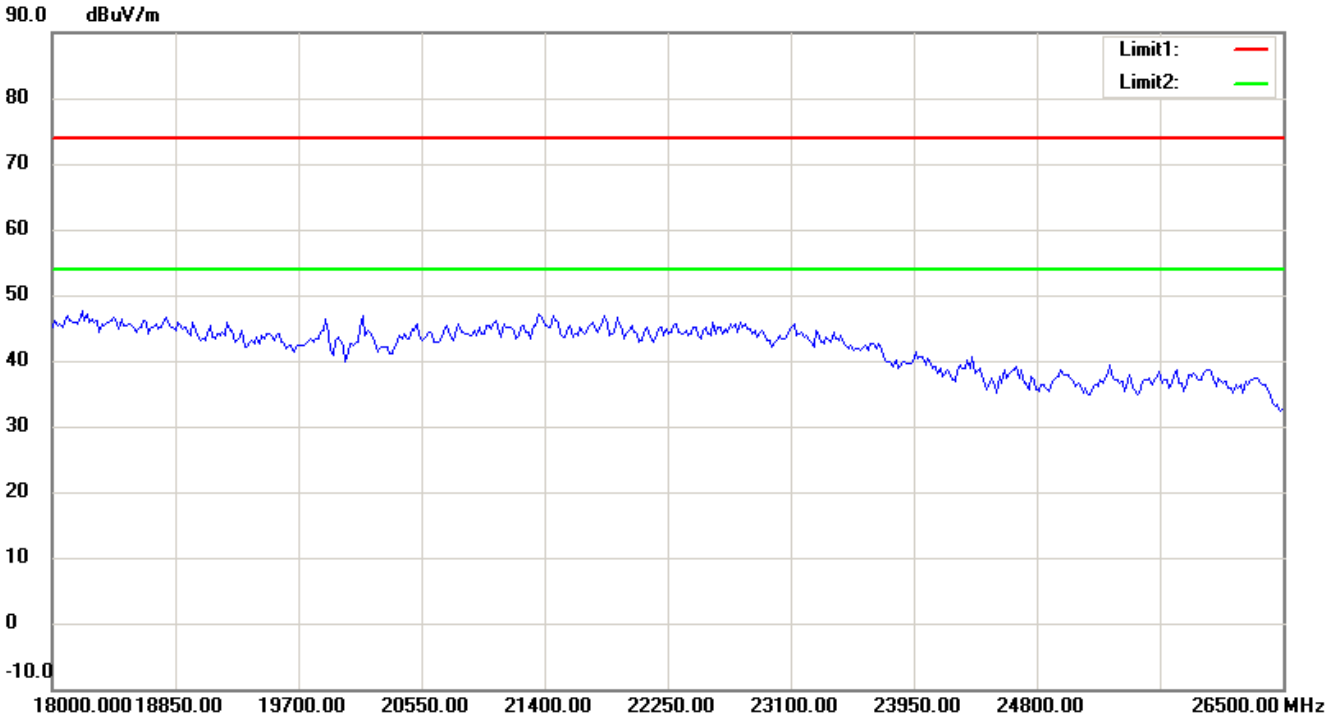
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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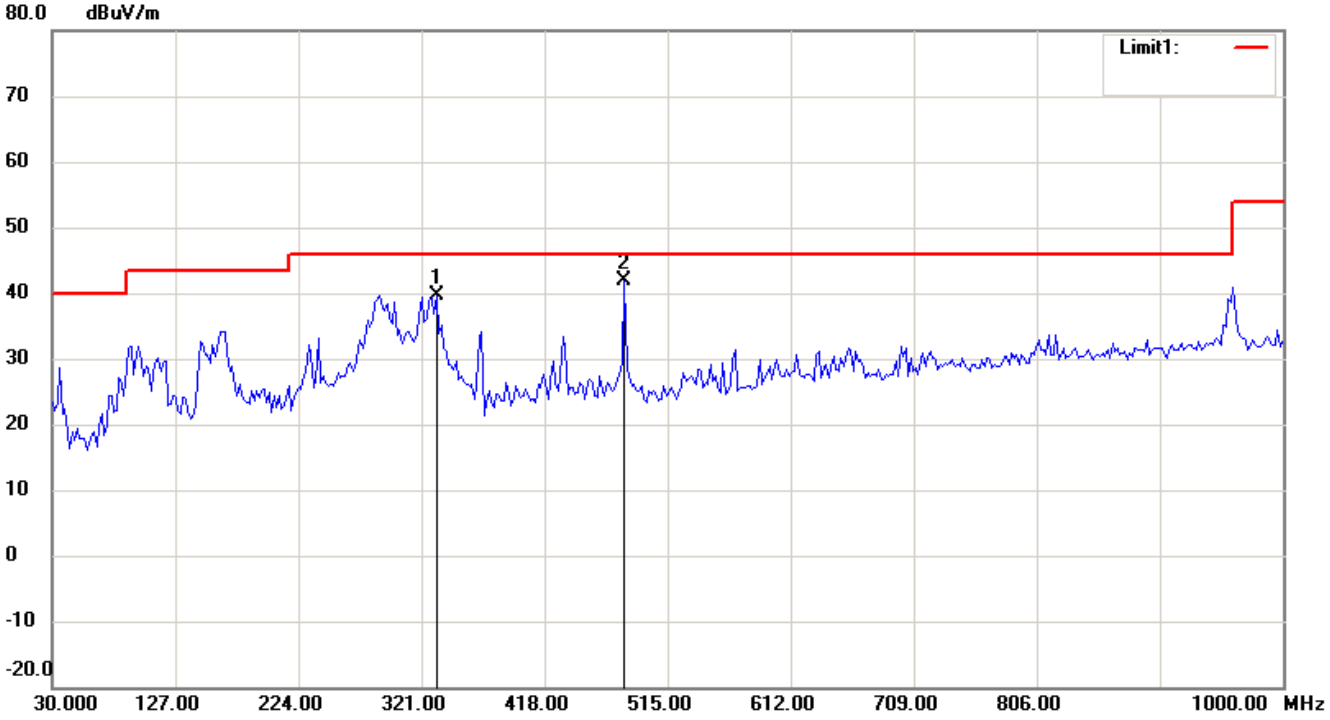
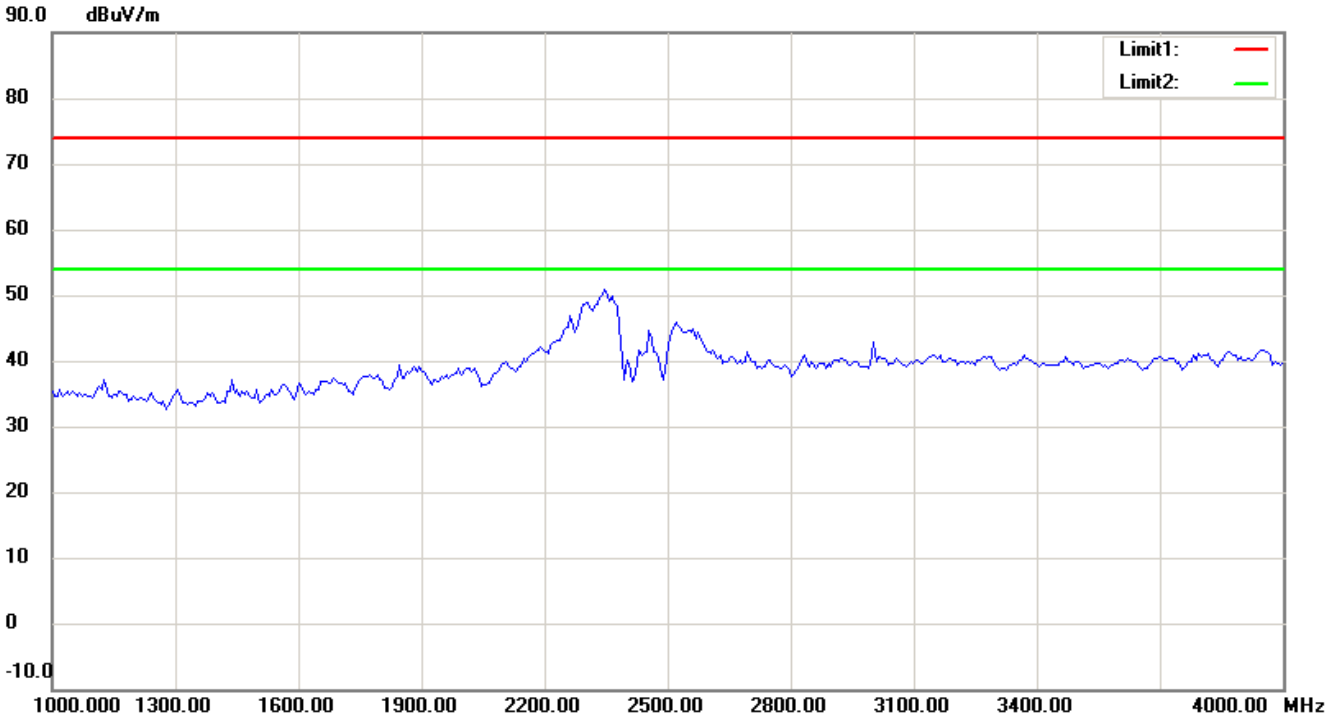
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 20 MHz_CH11
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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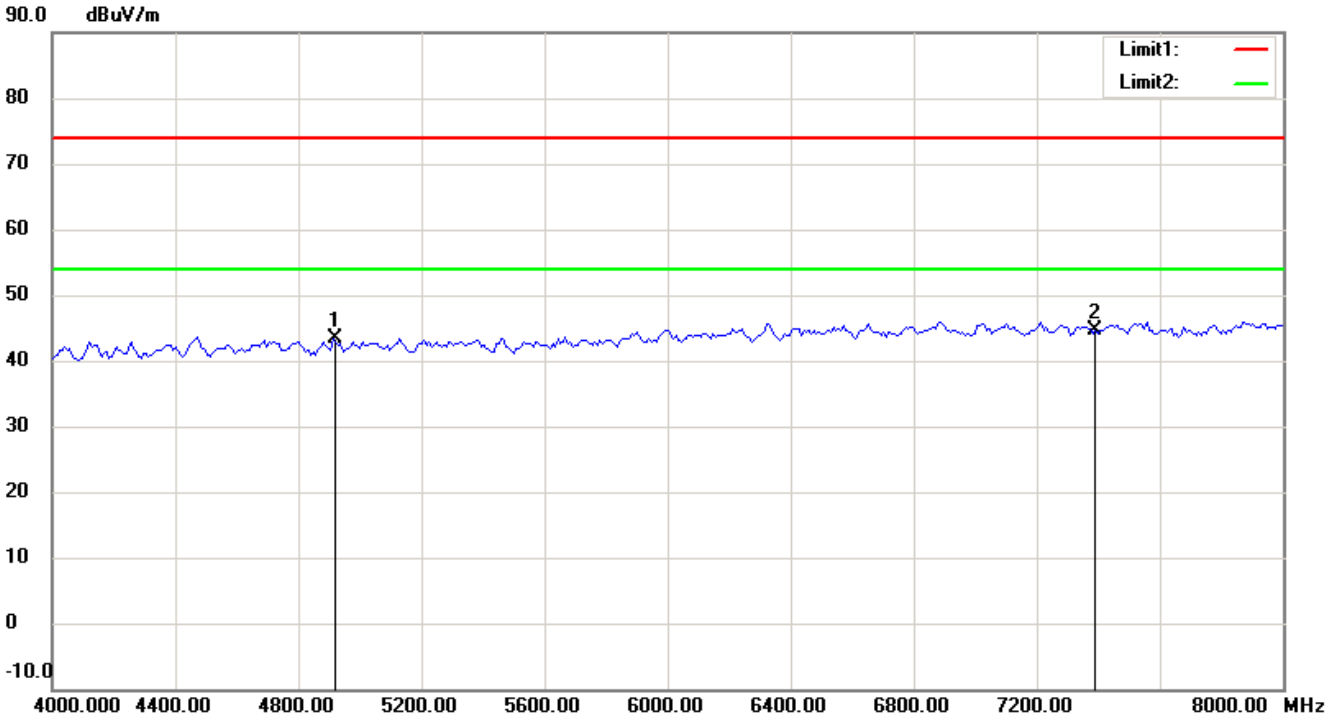
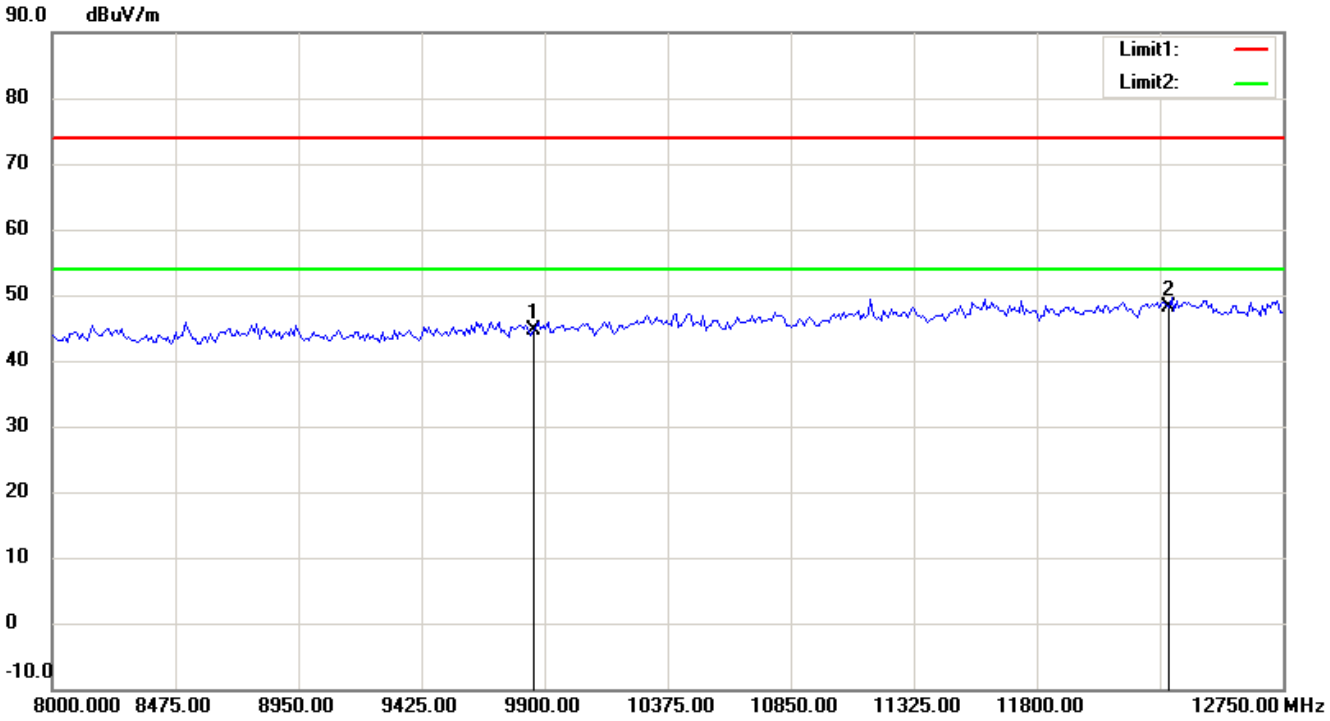
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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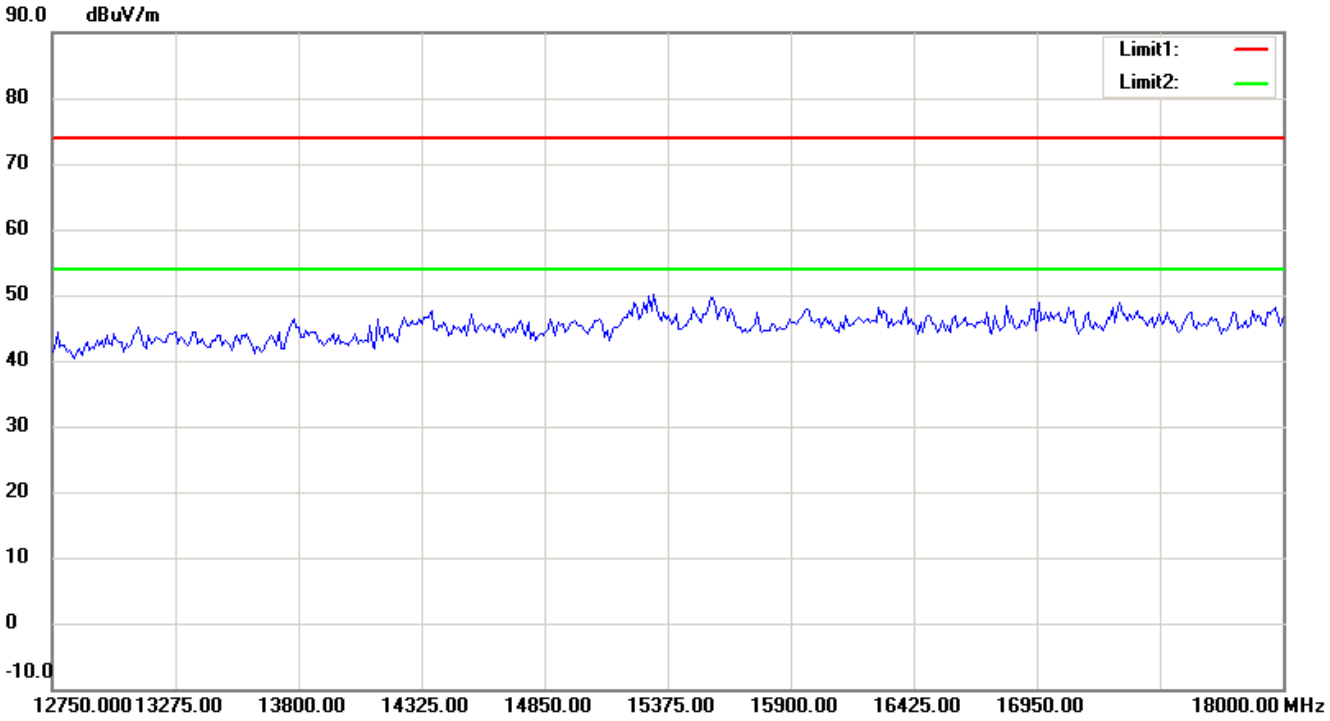
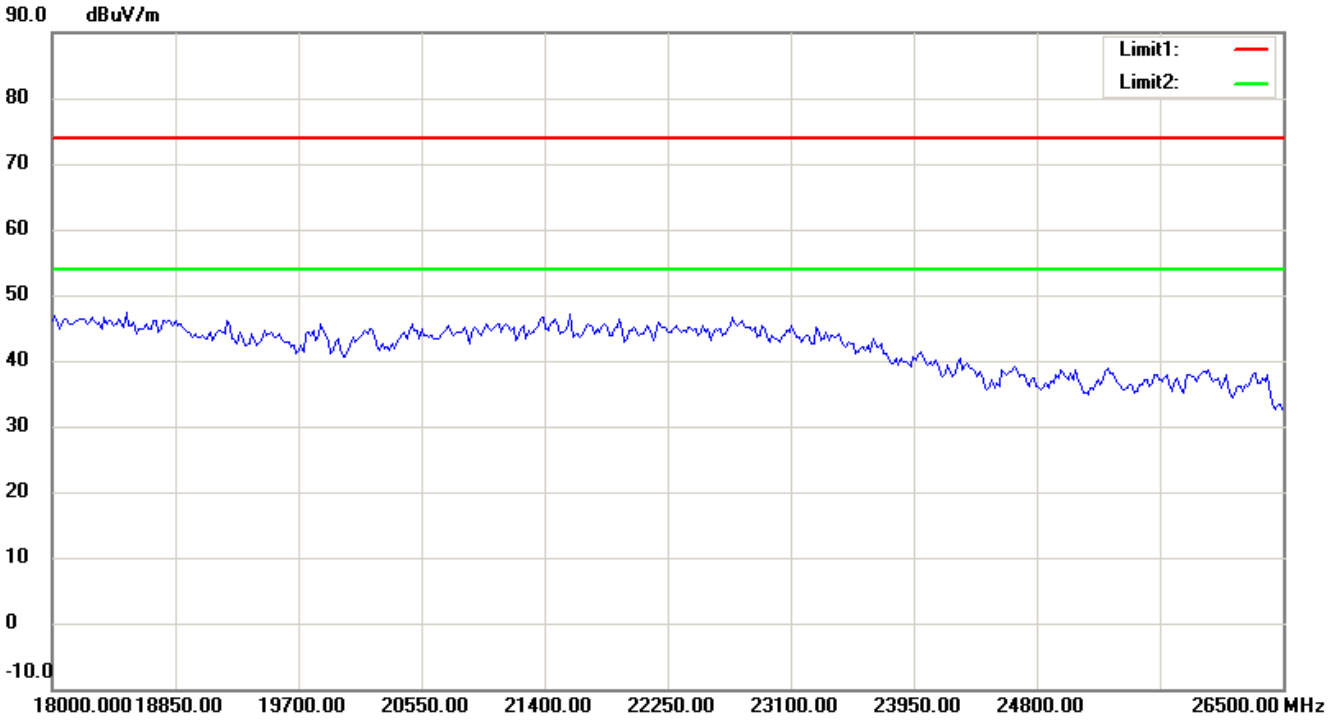
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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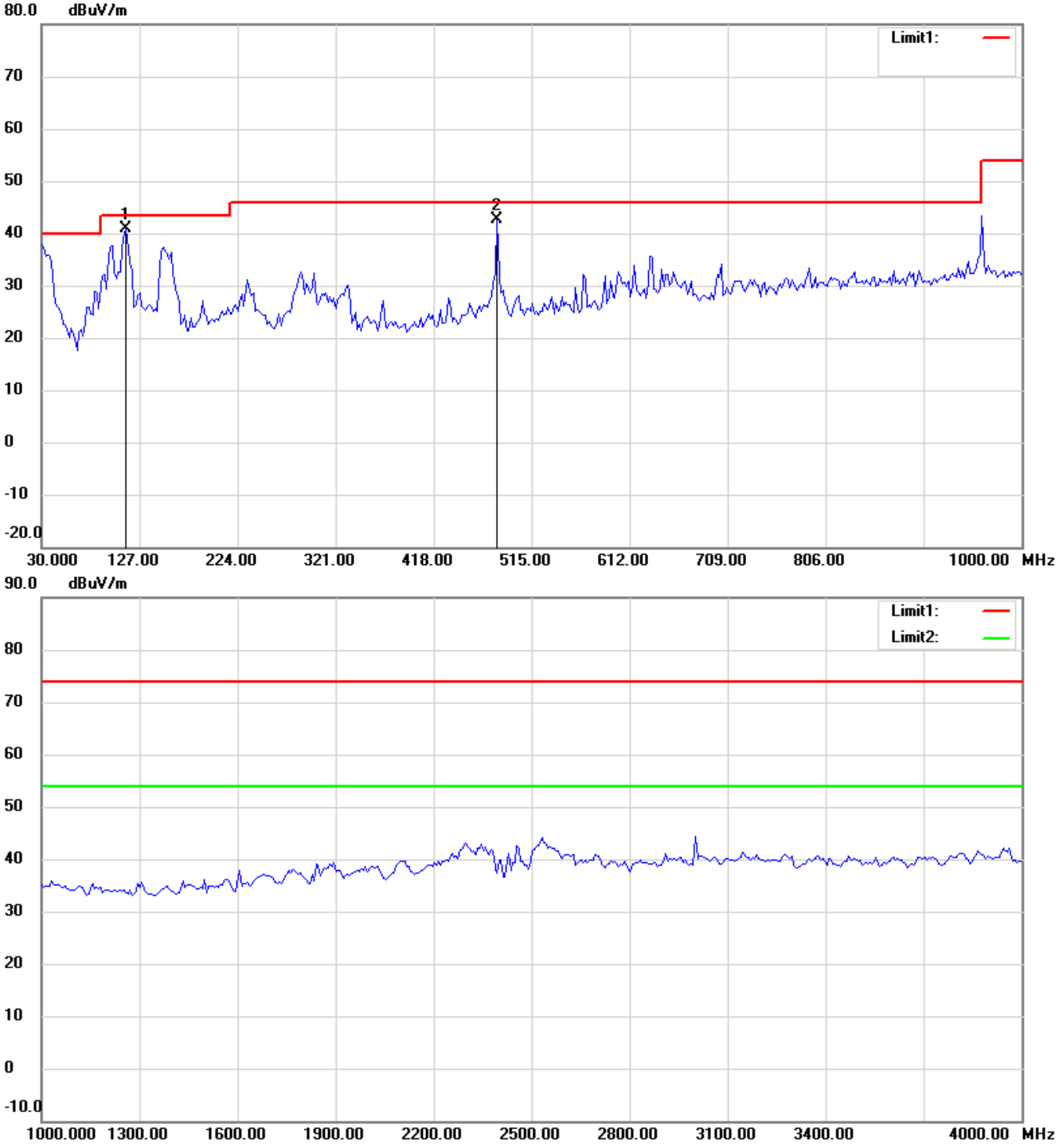
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

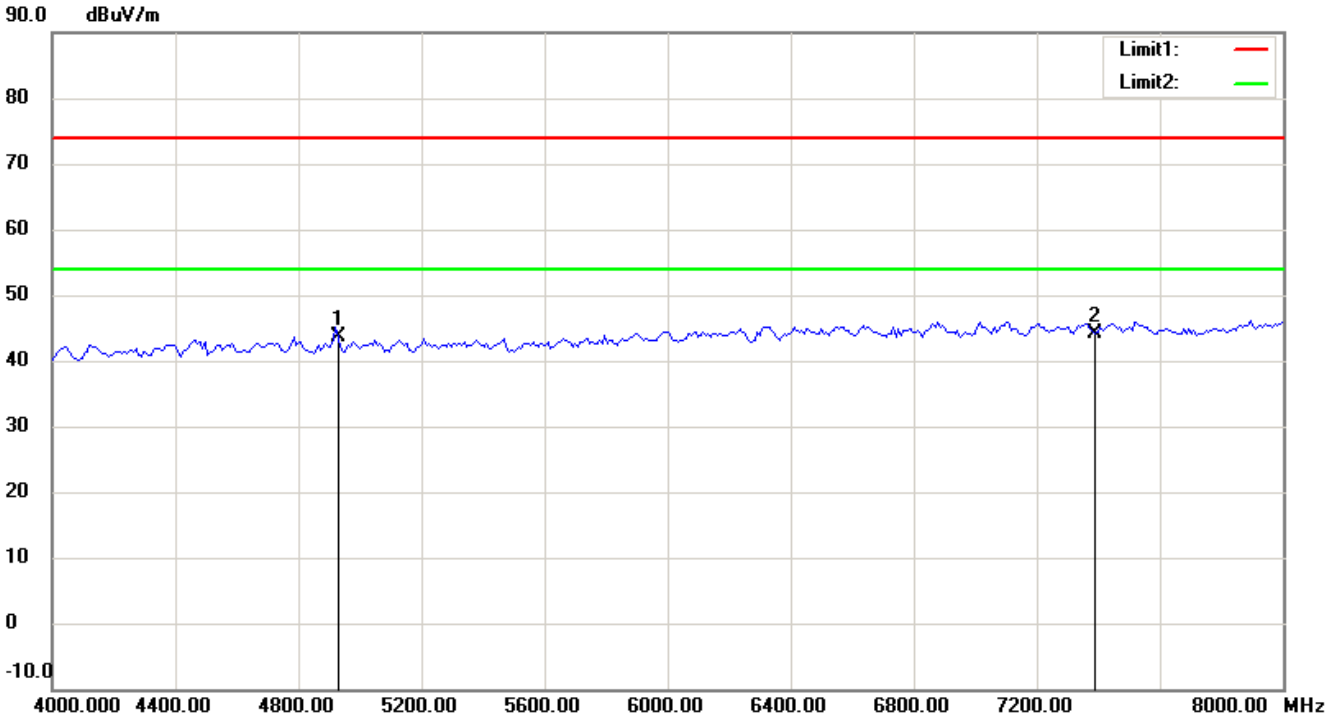
Antenna Polarization V

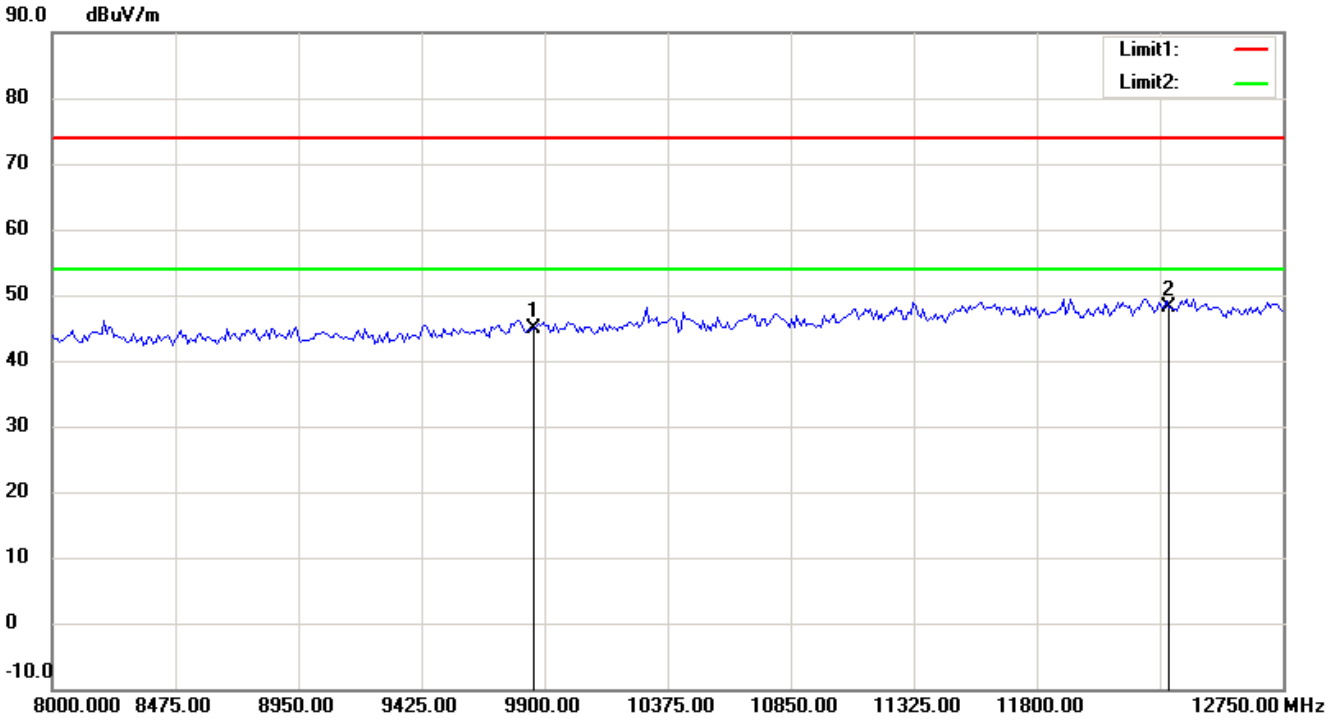


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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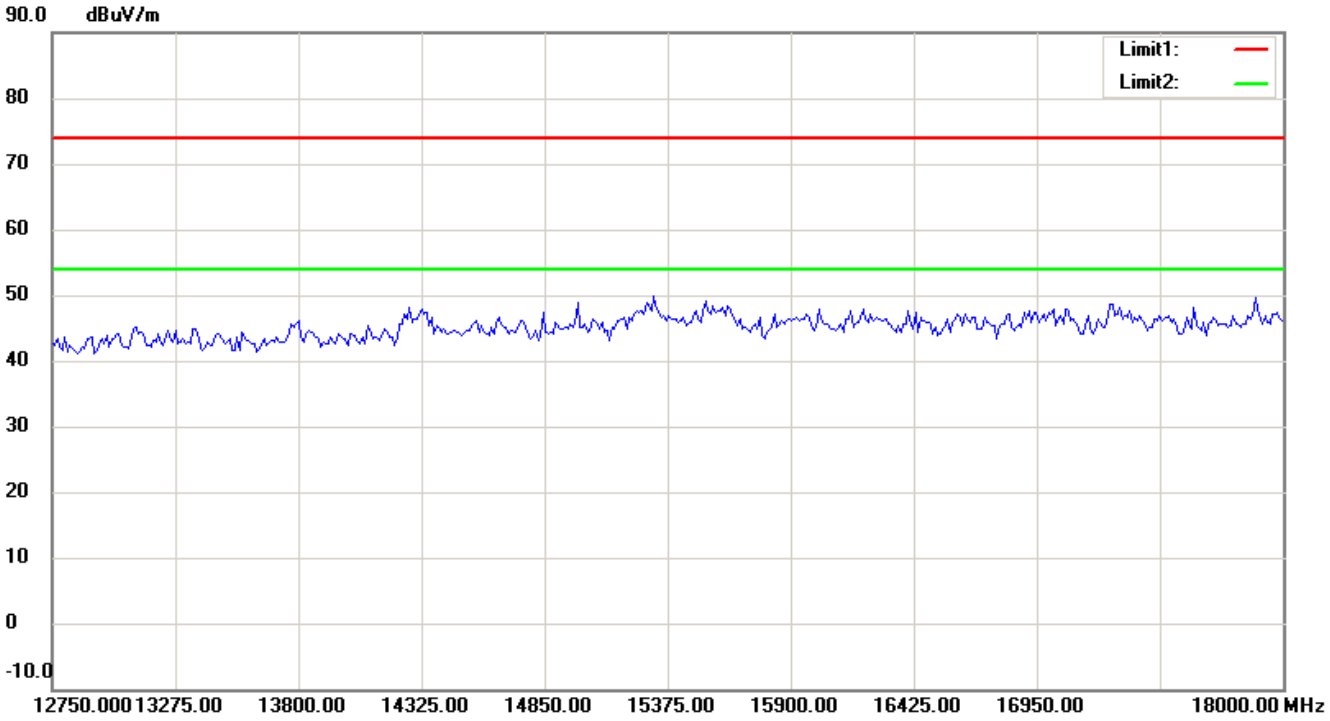
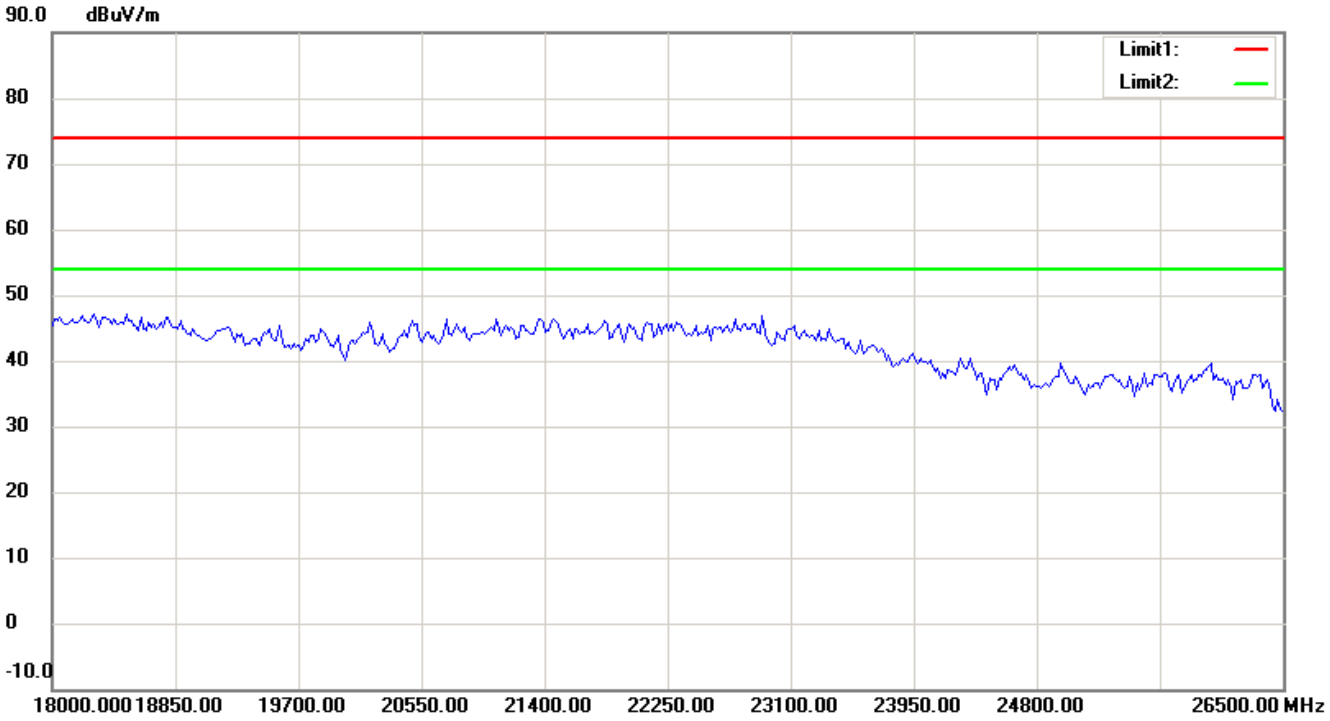
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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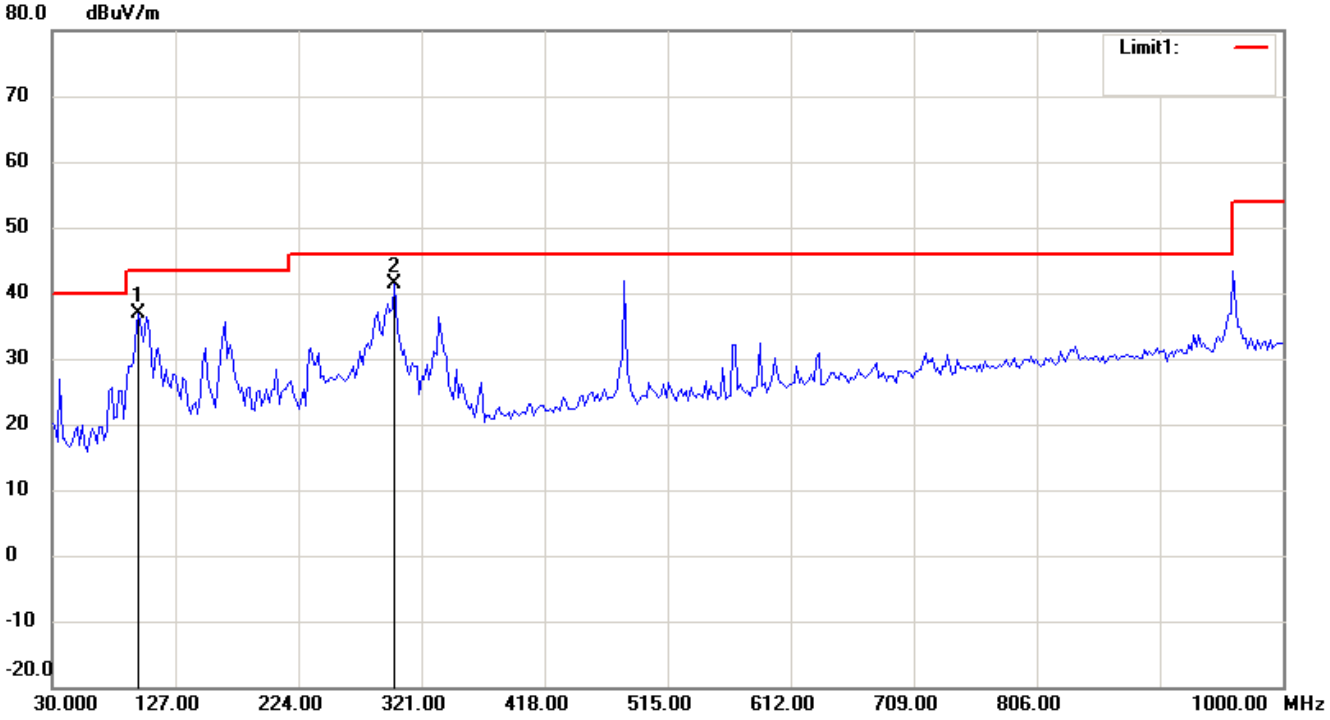
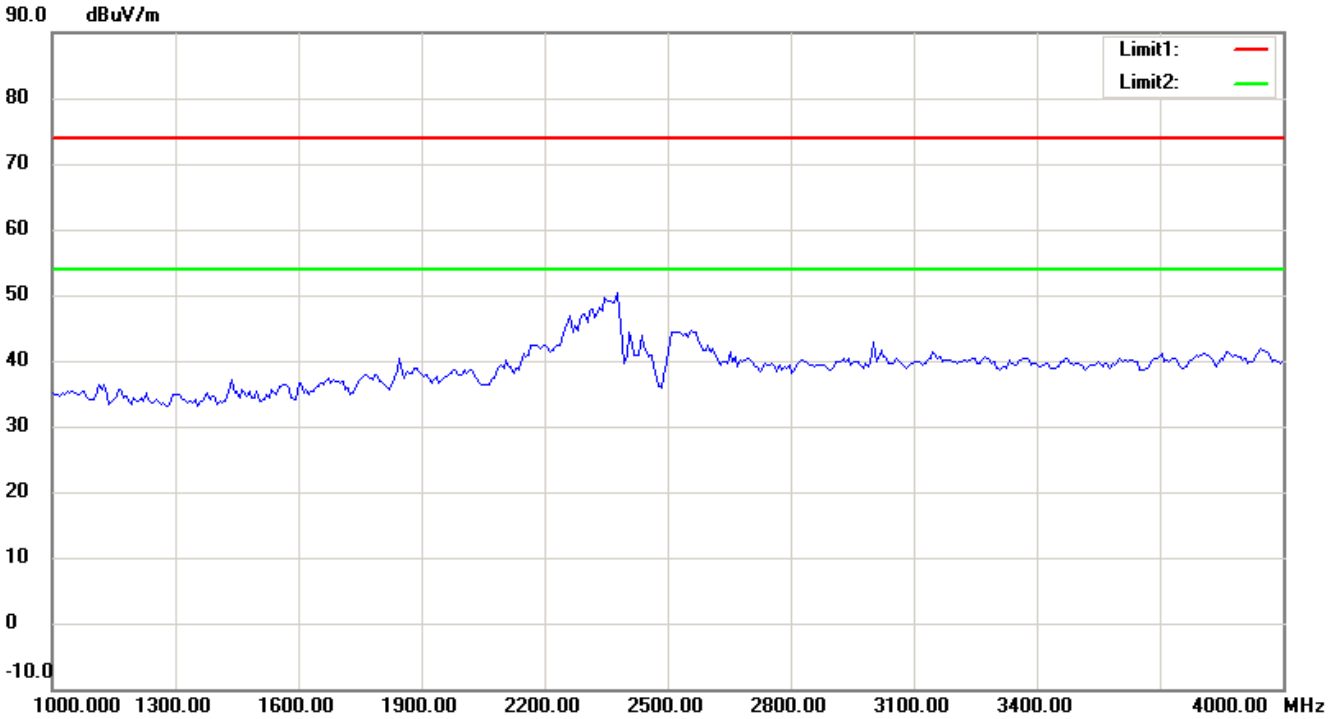
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 40 MHz_CH1
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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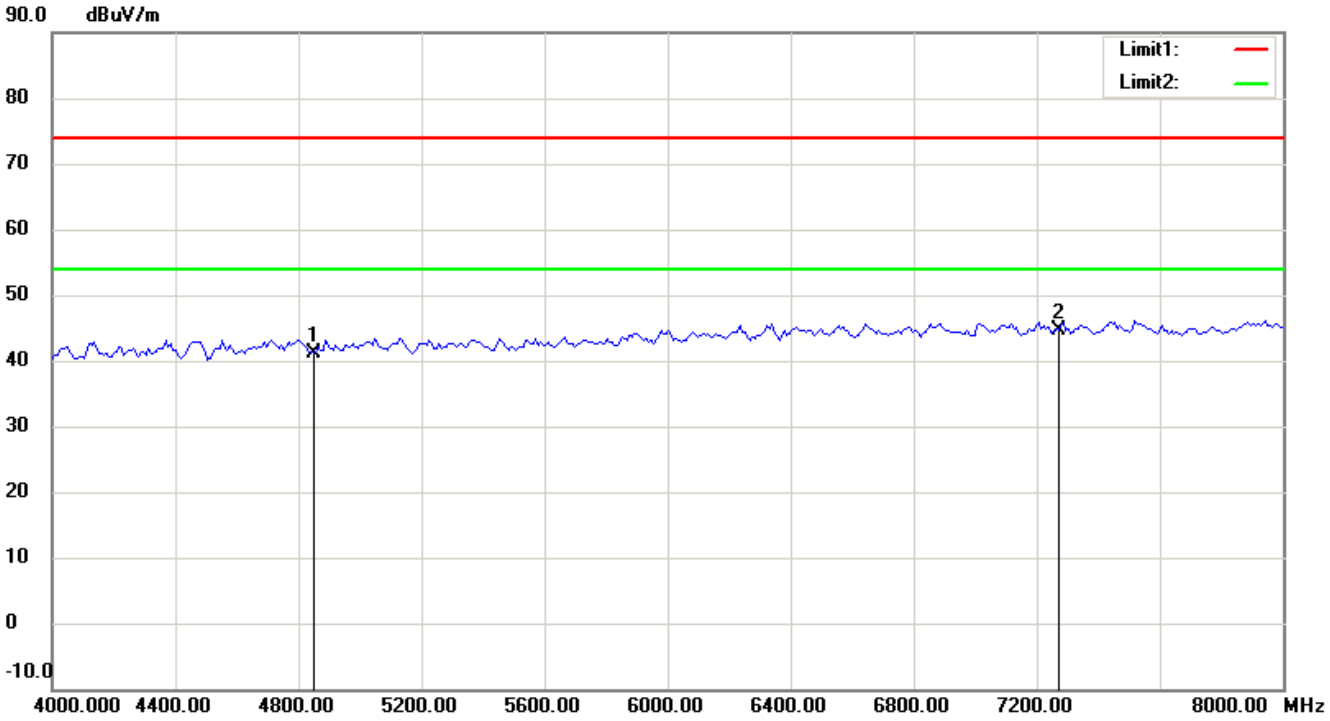
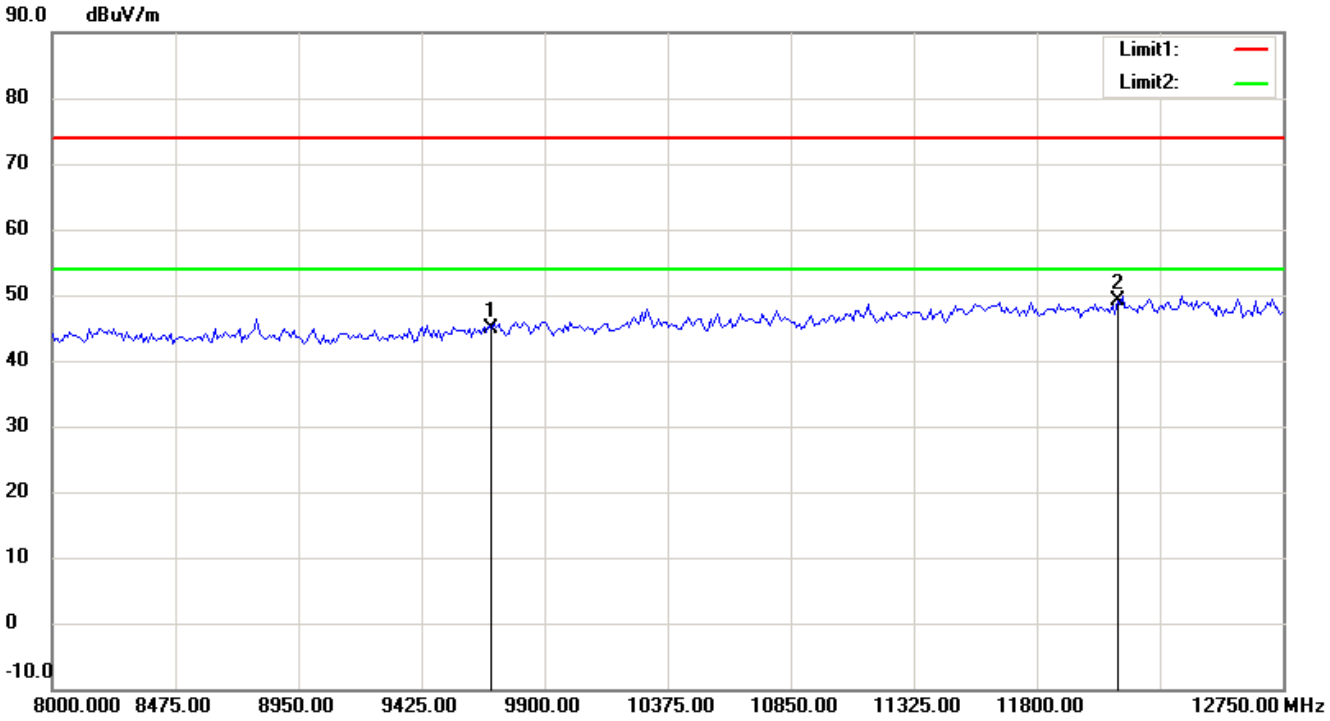
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

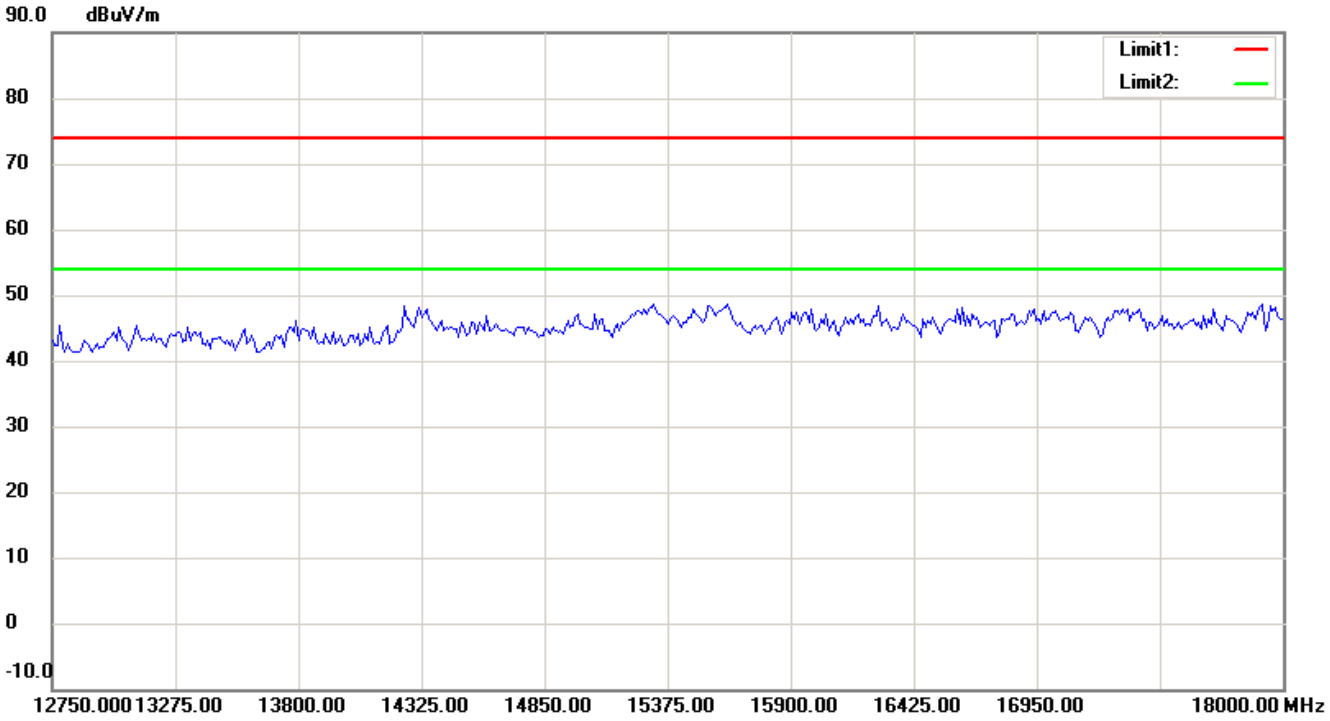


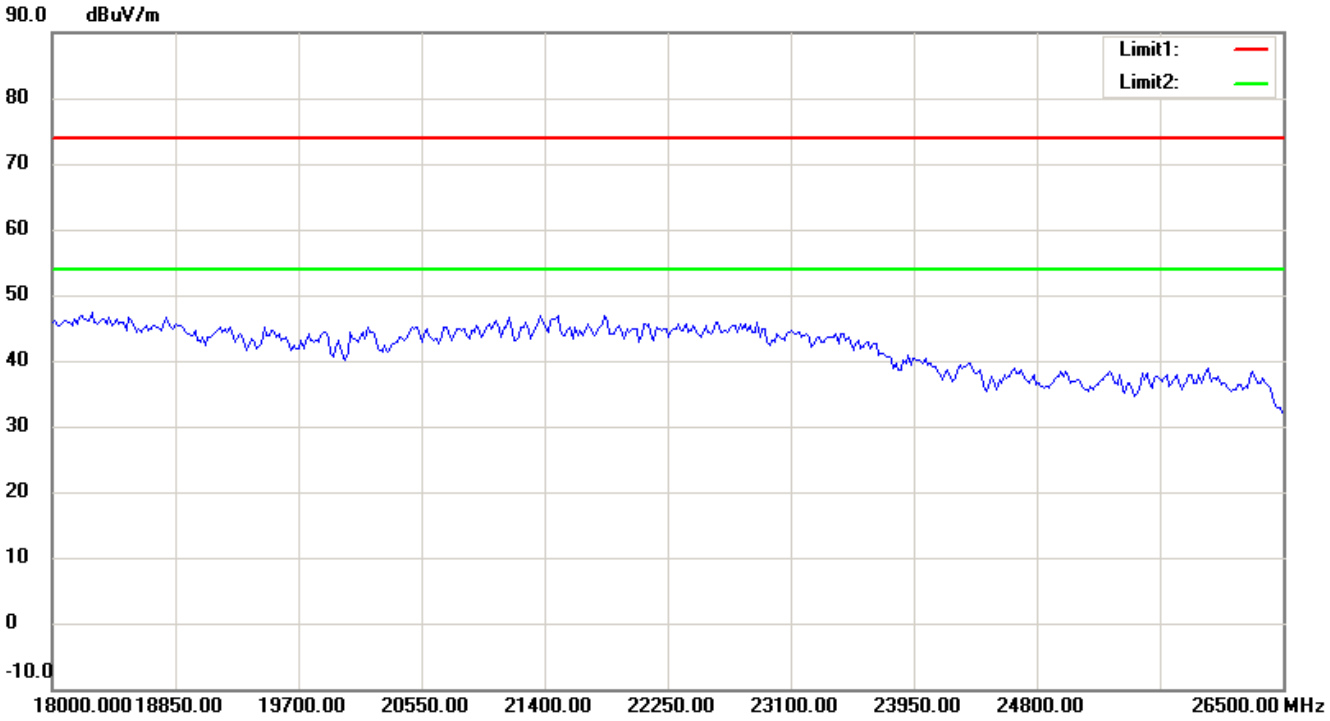


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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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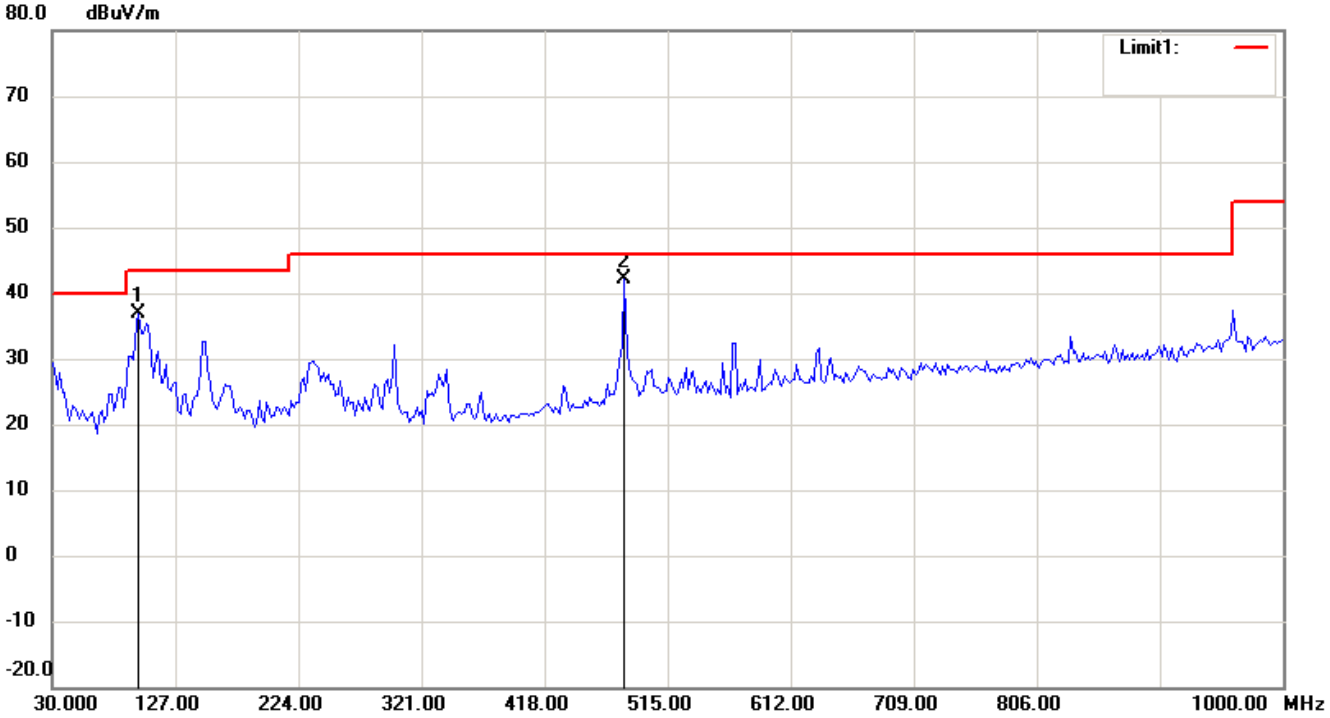
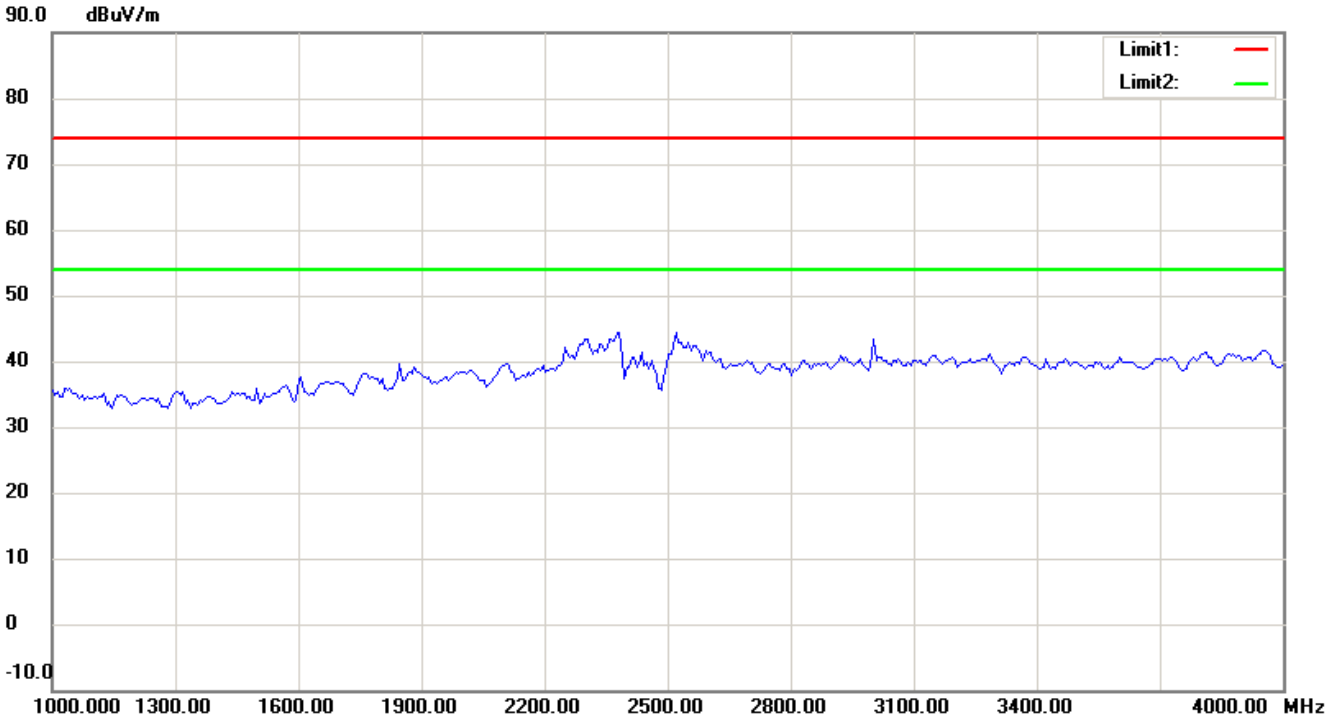
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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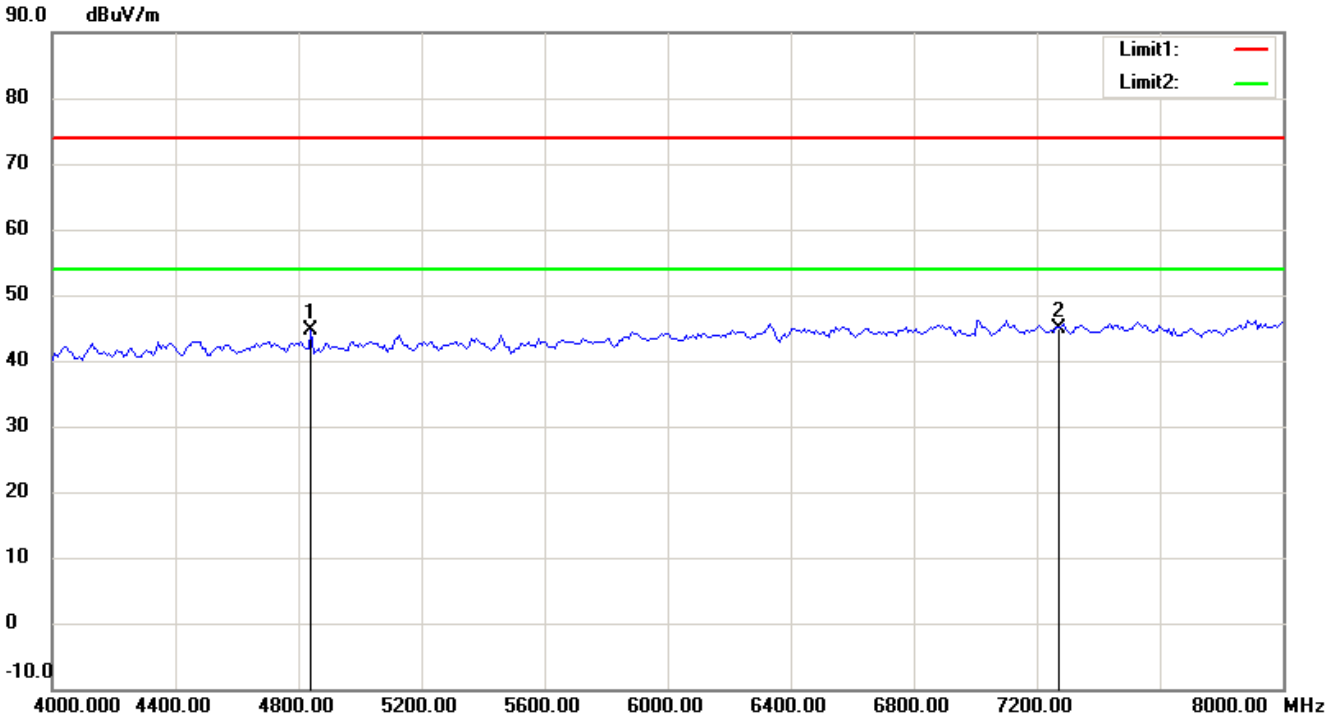
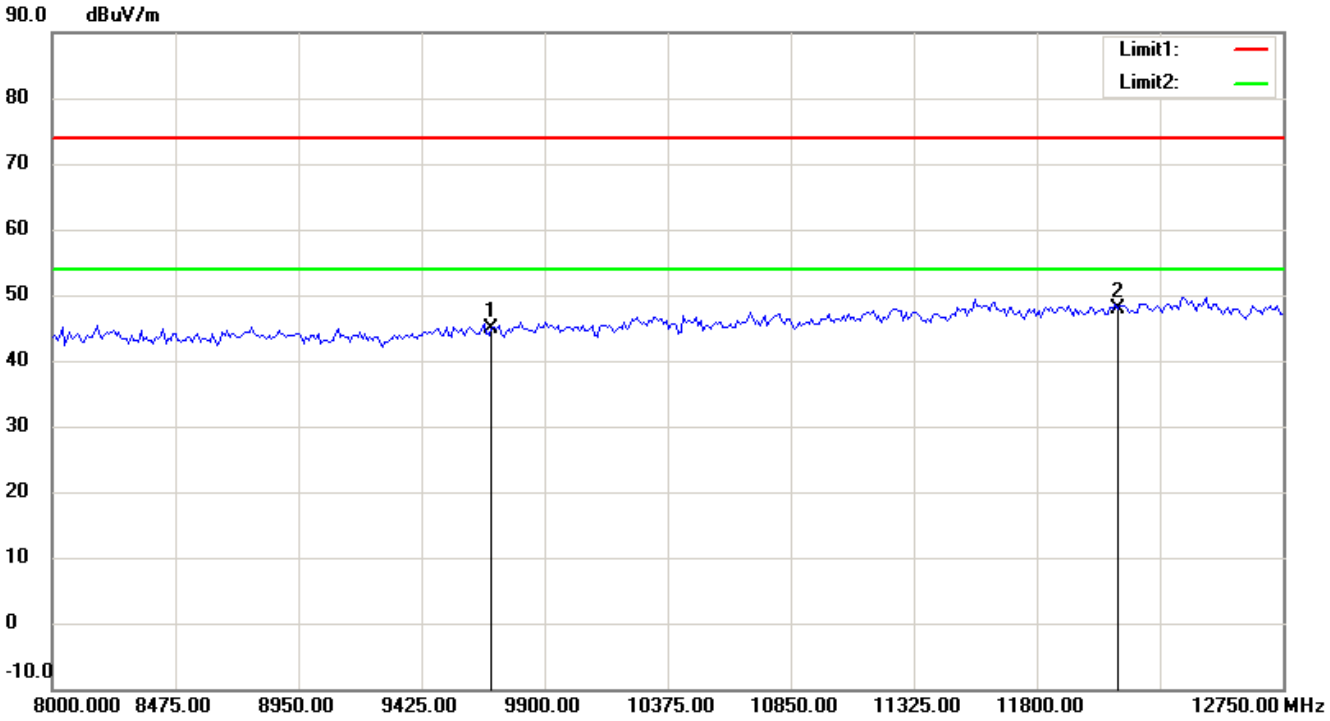
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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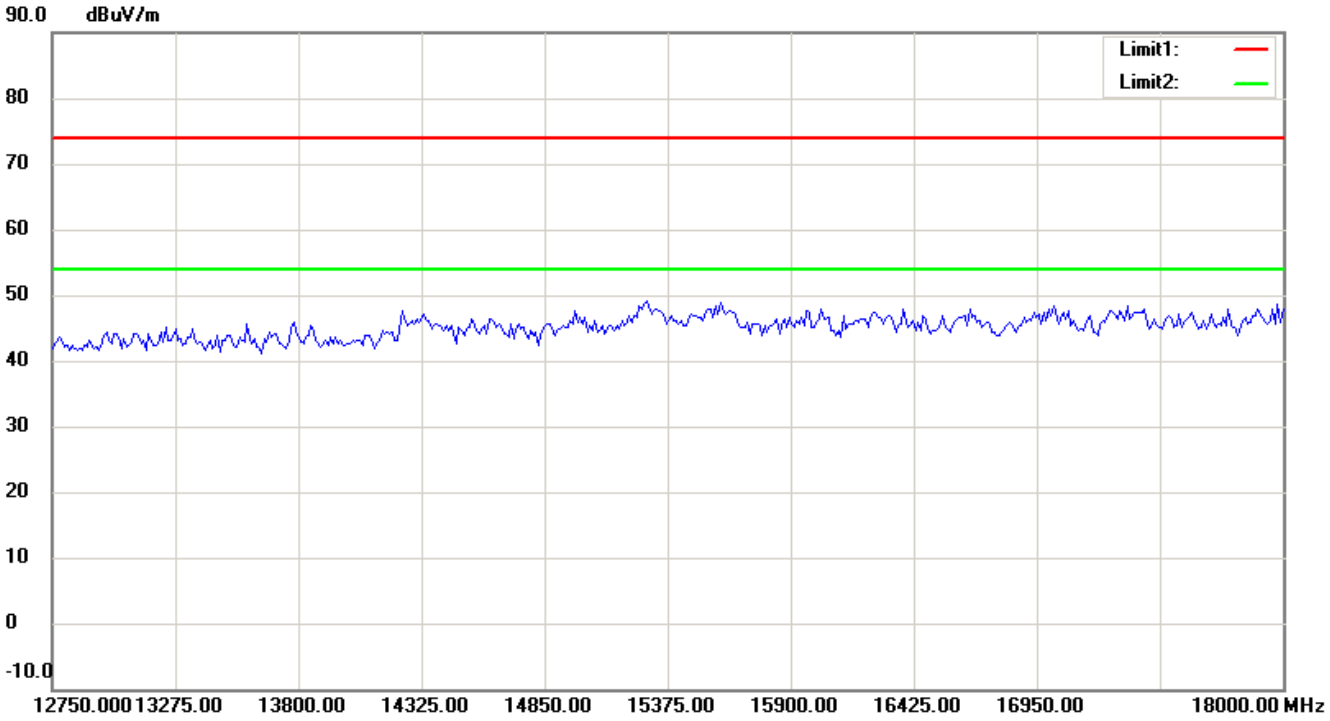
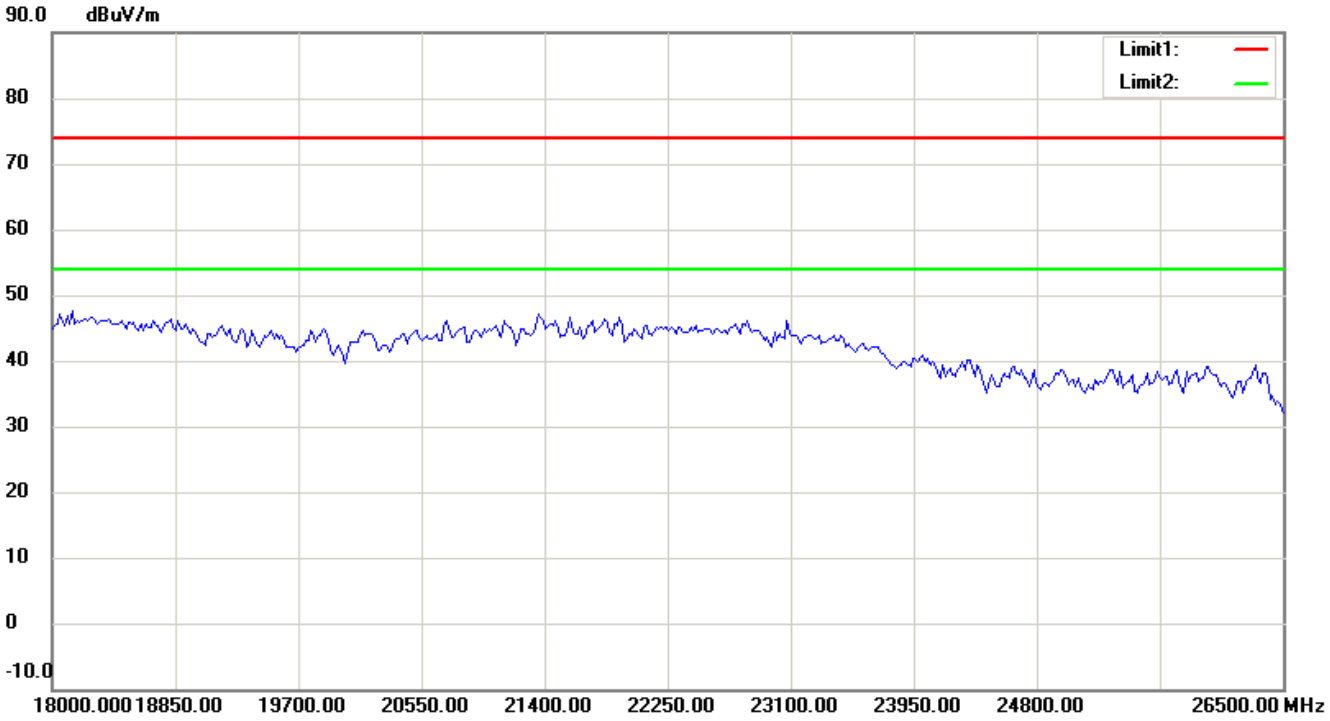
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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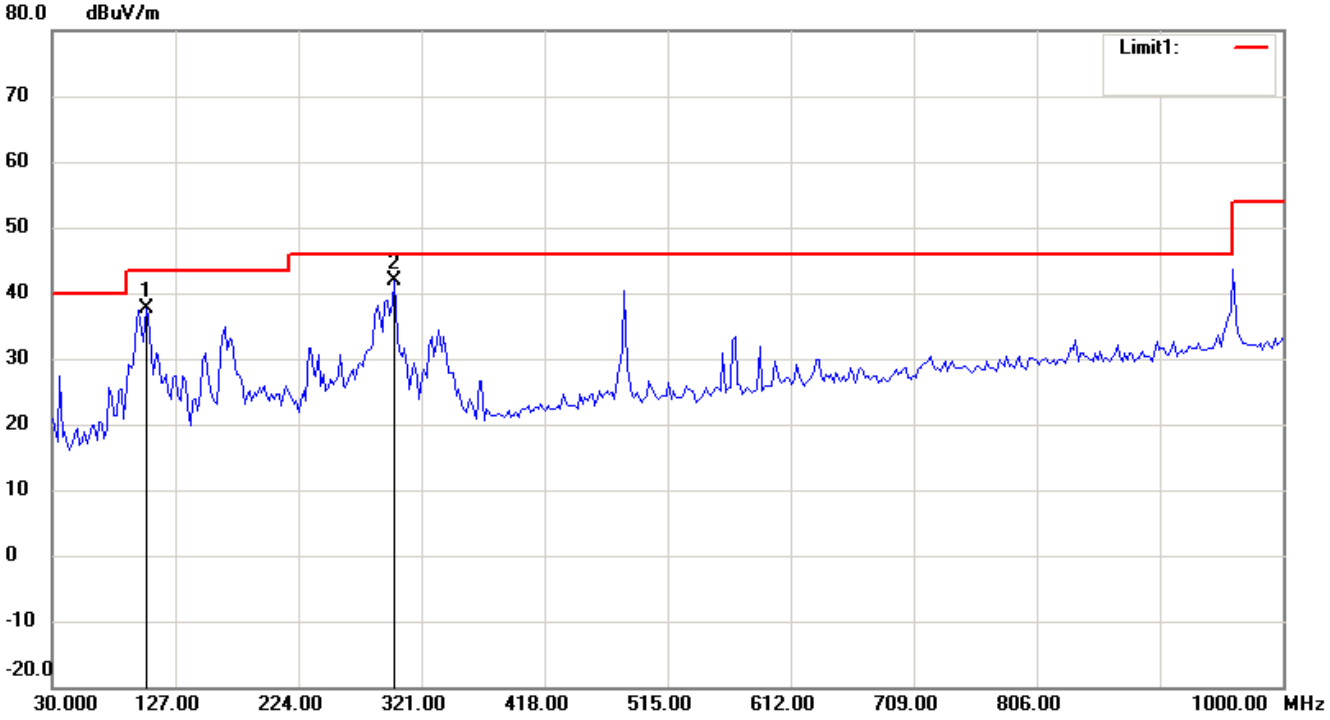
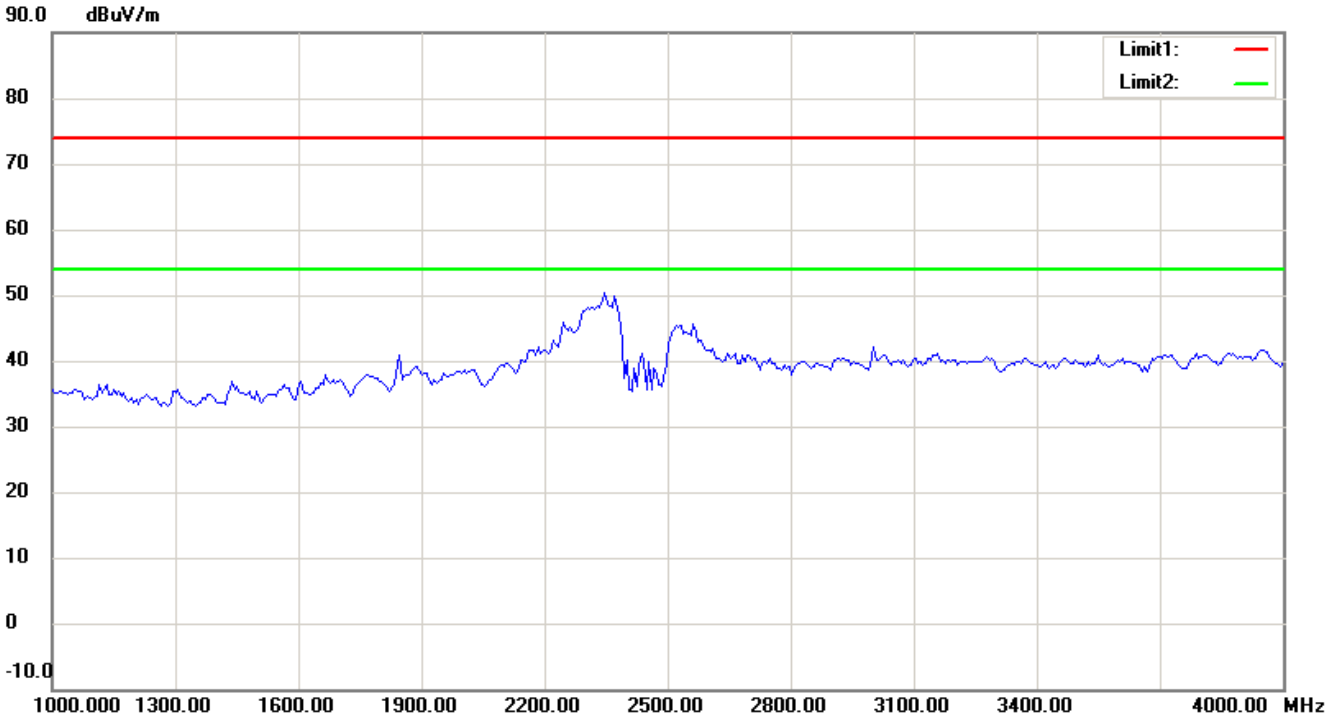
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 40 MHz_CH4
Antenna Polarization H

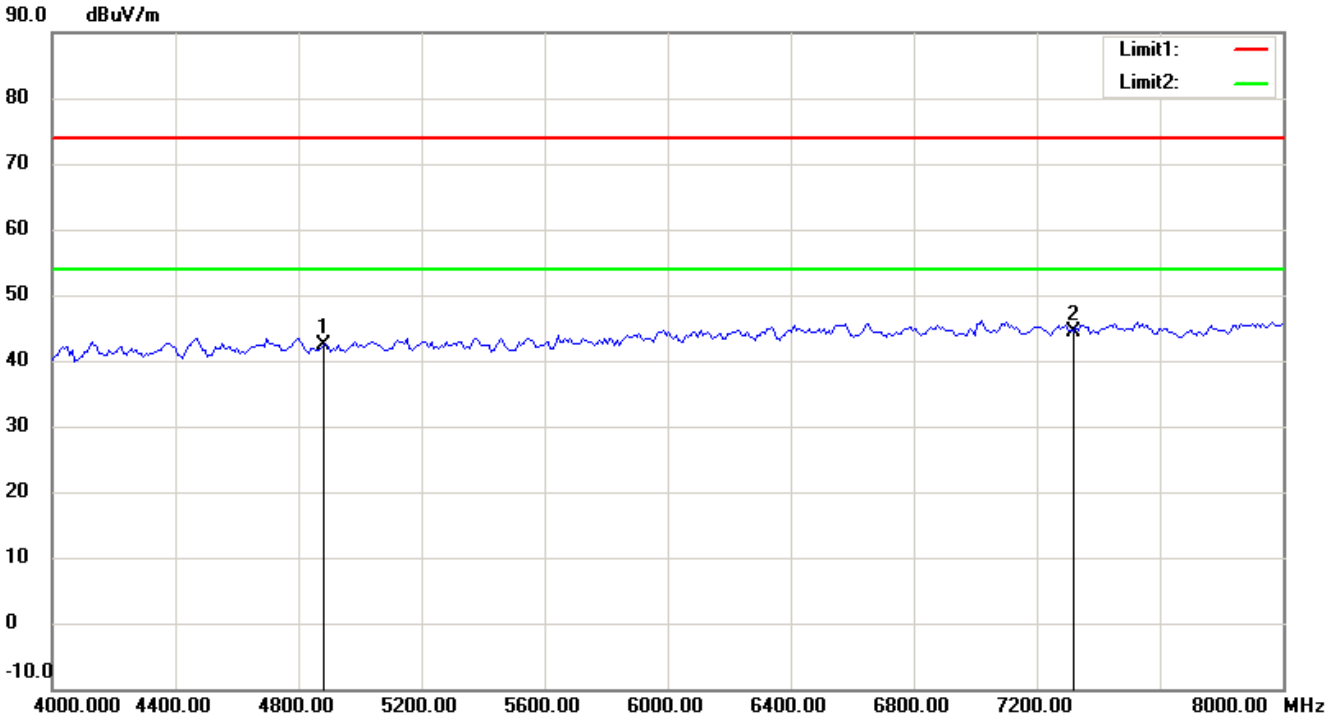


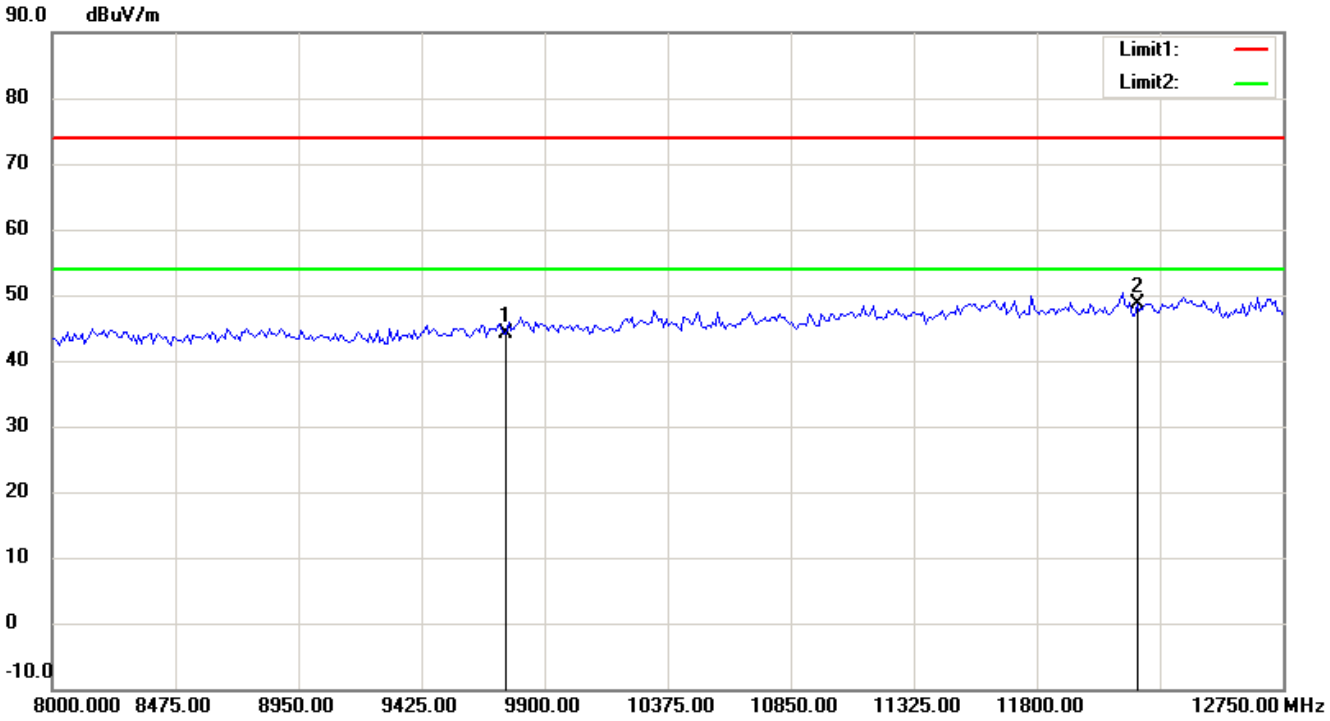


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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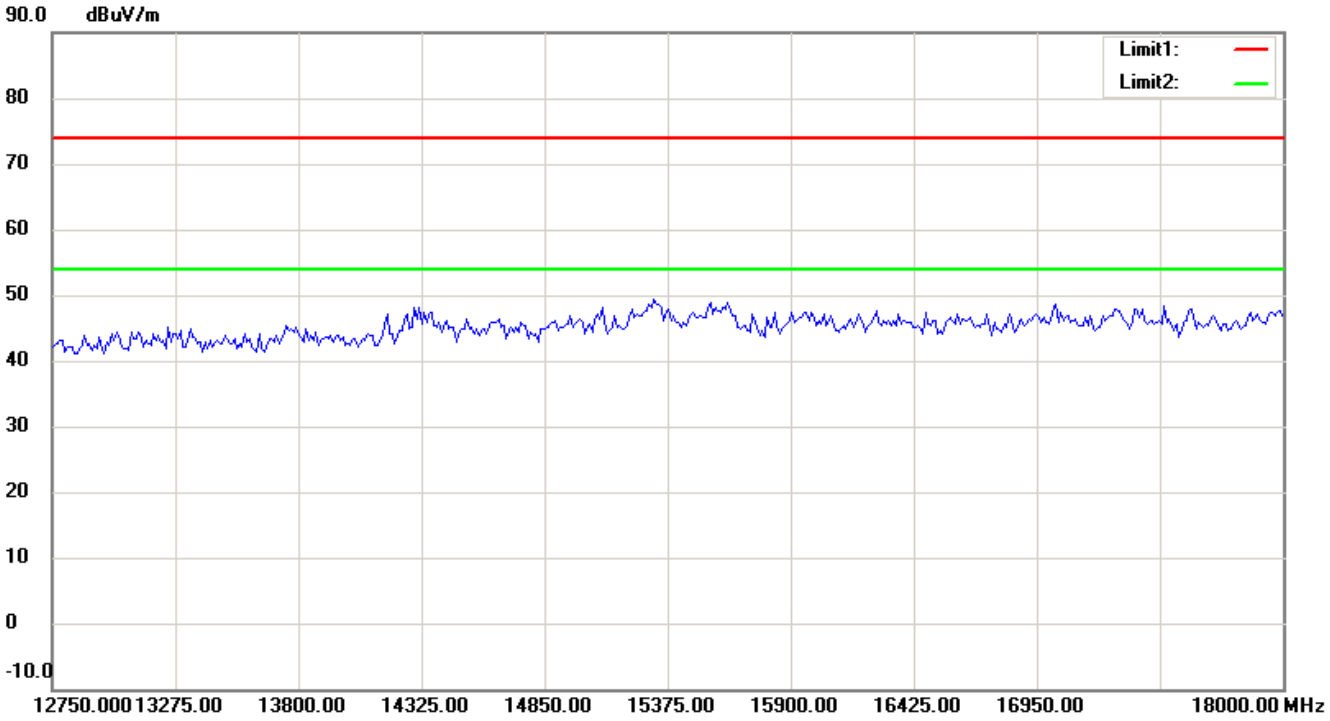
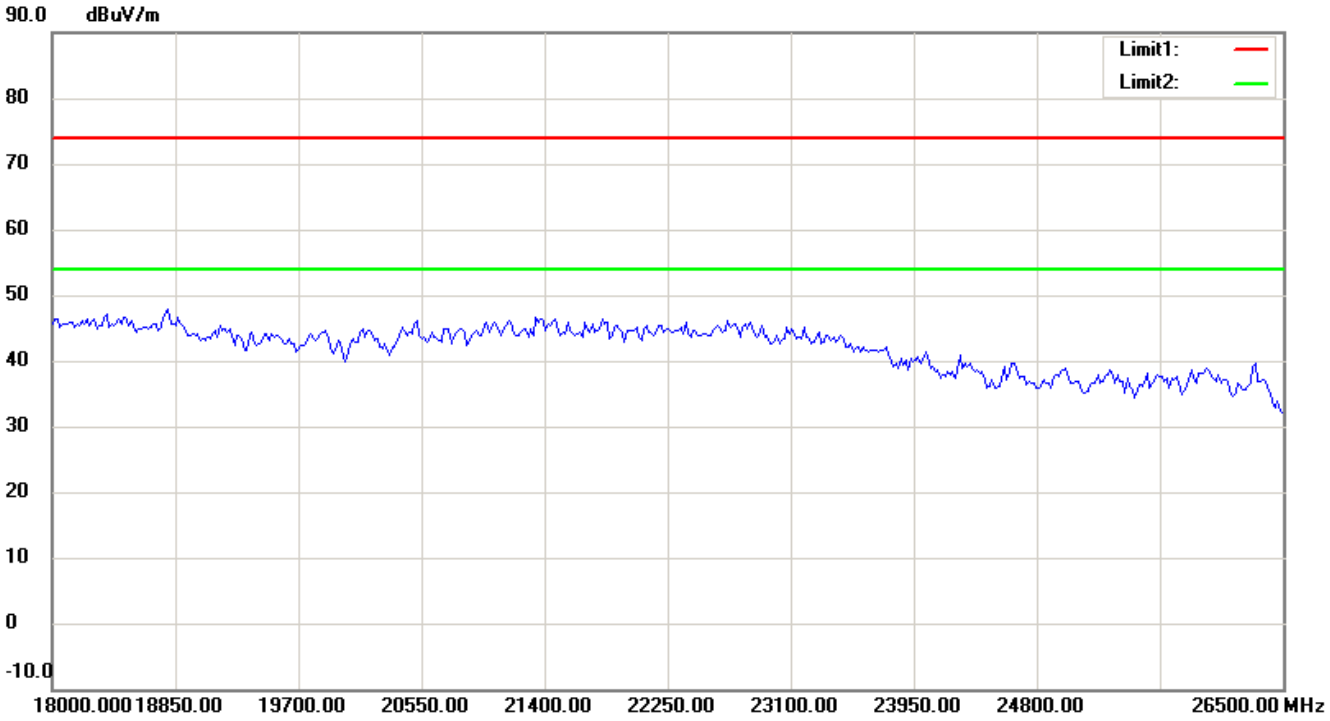
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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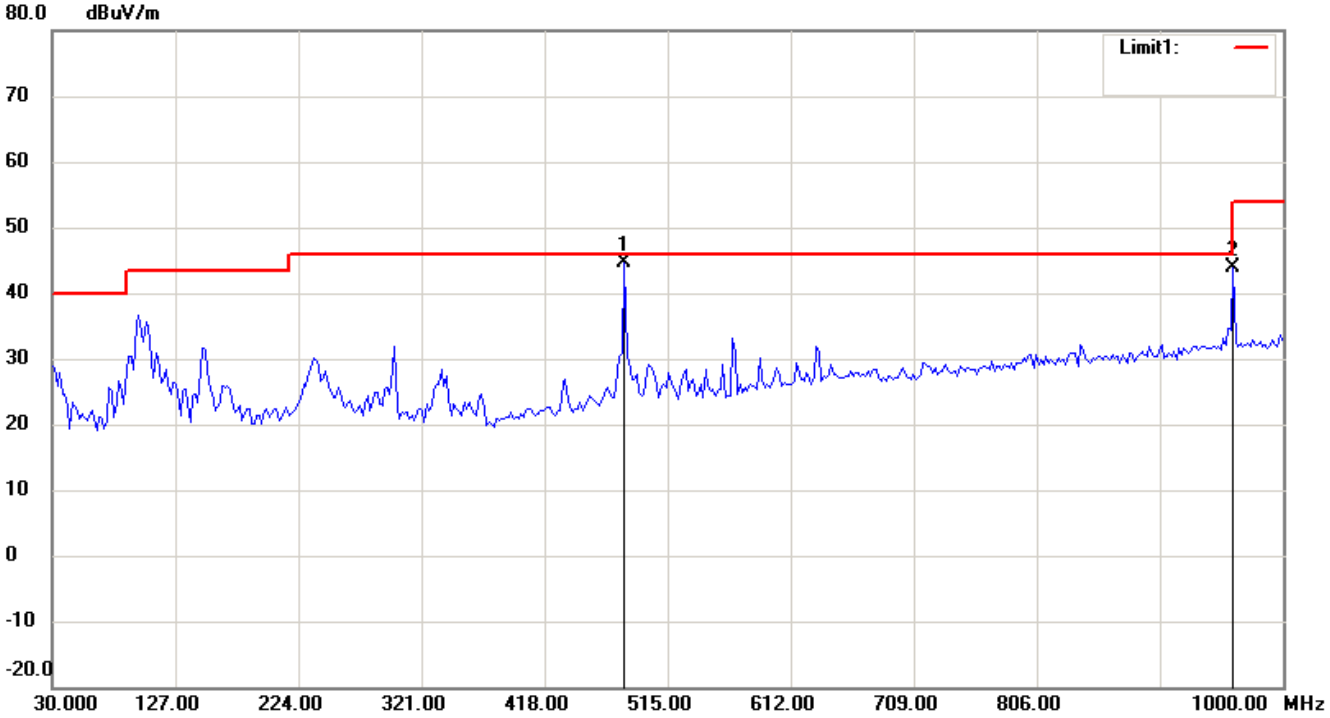
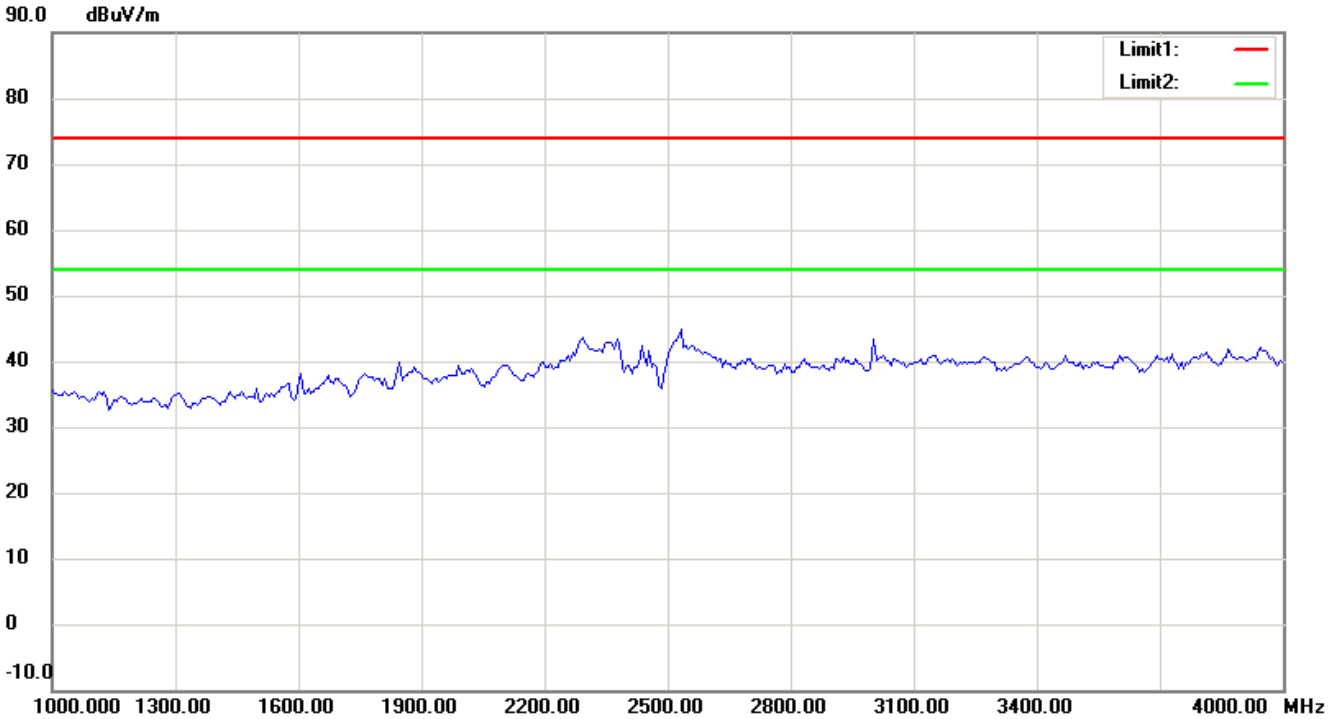
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V

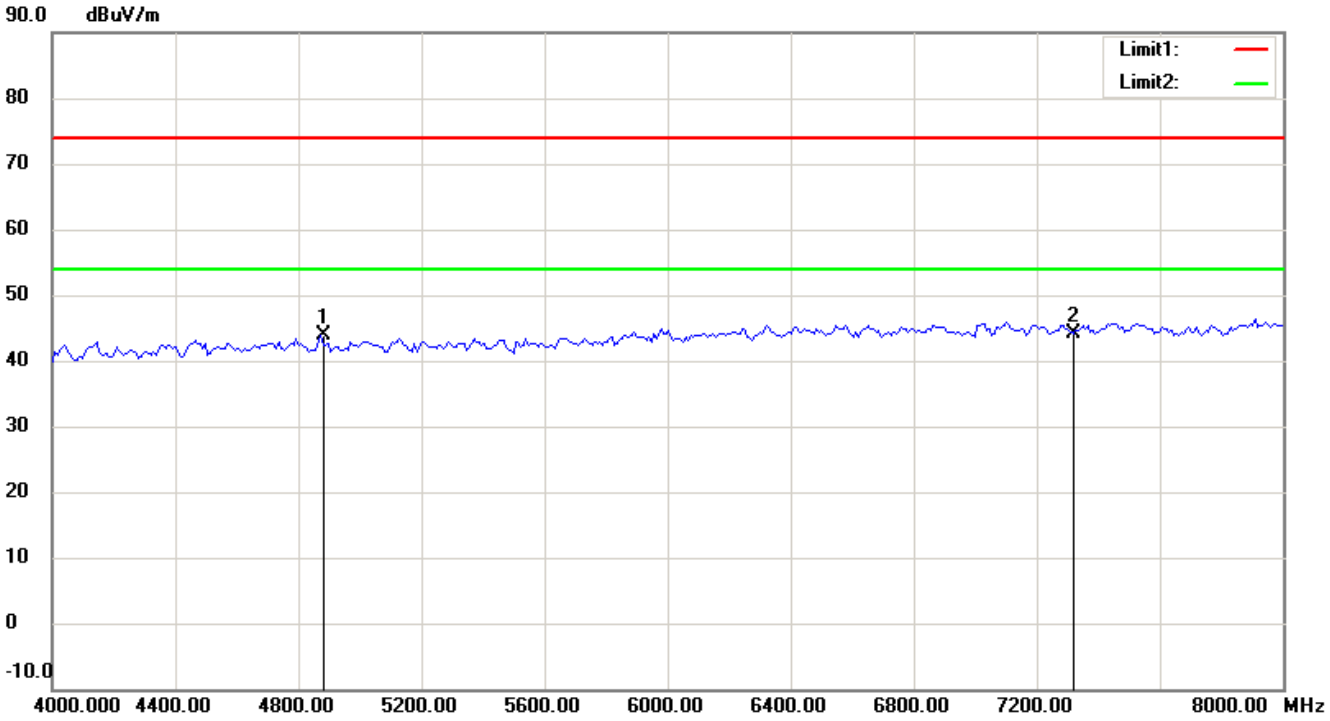


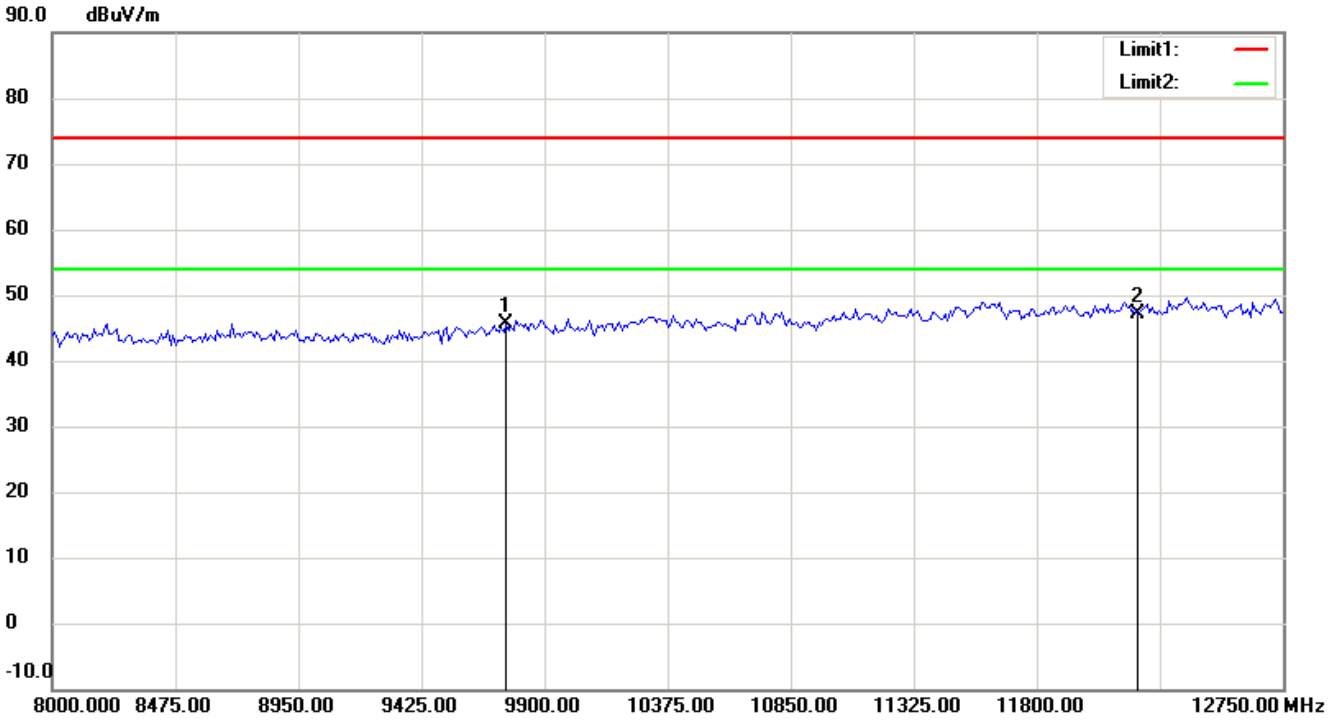


Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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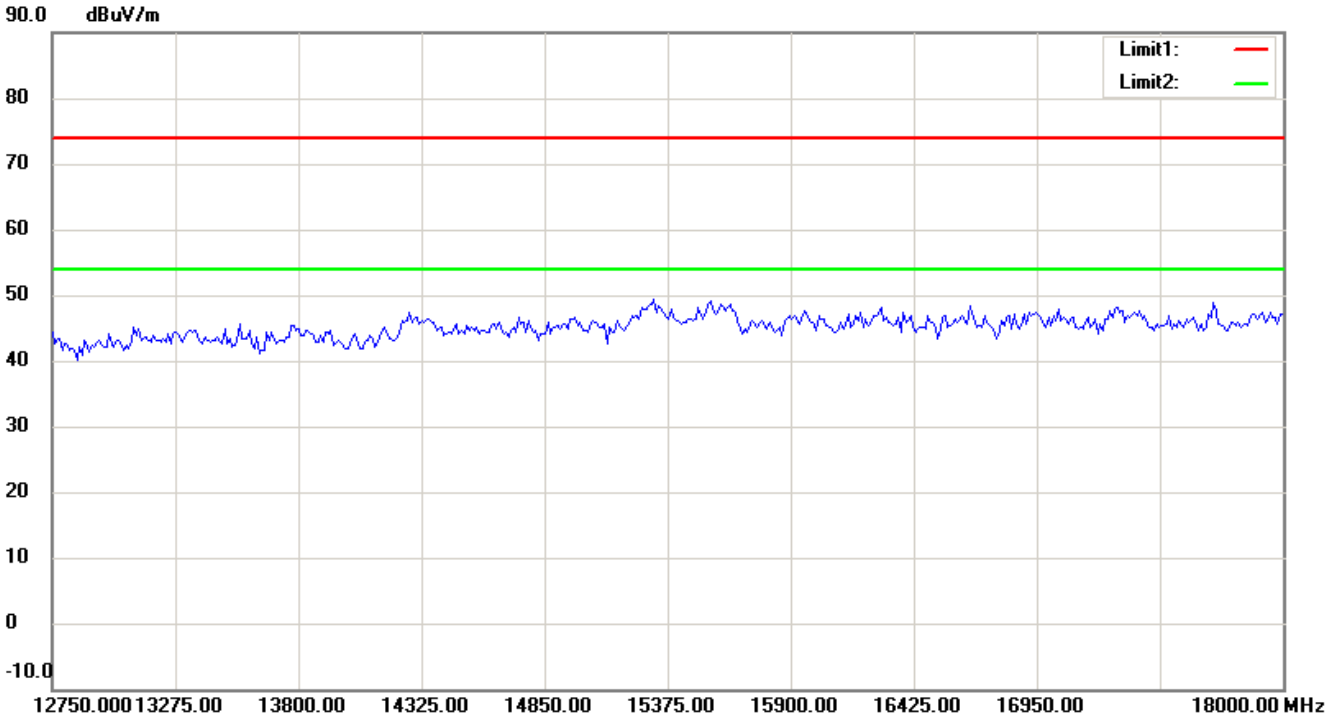
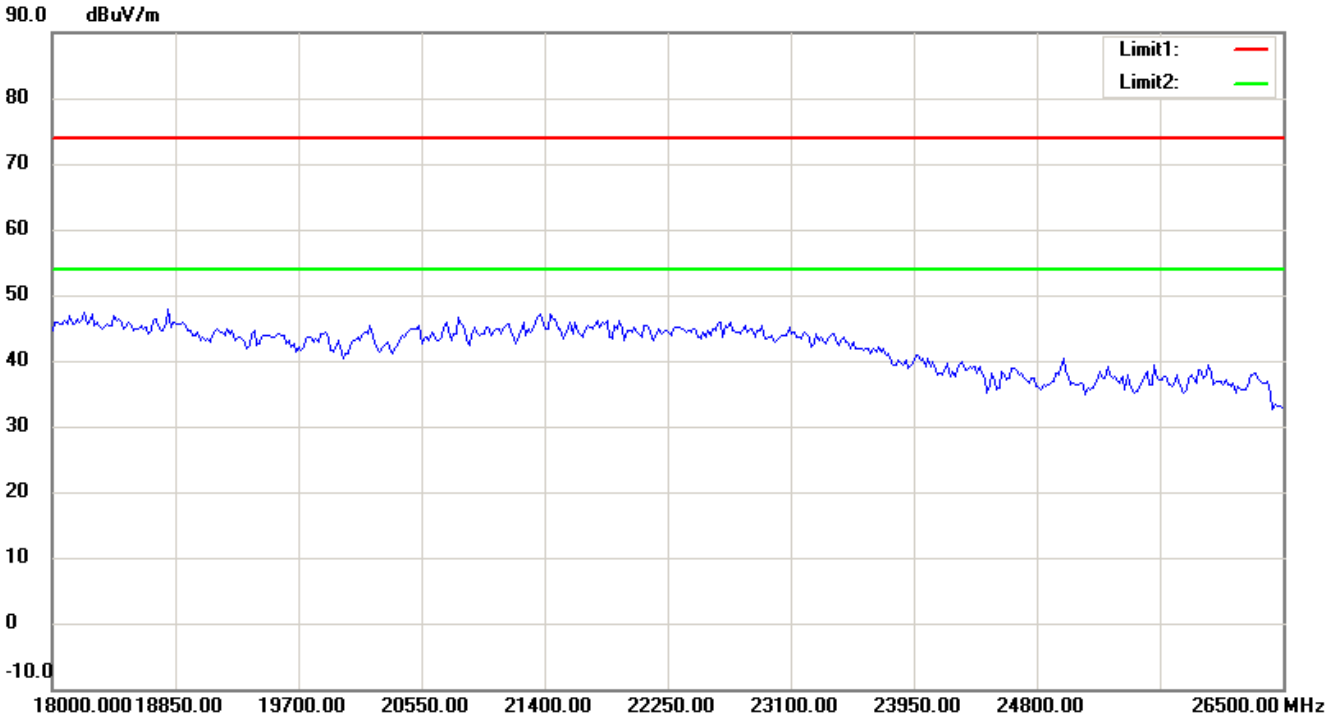
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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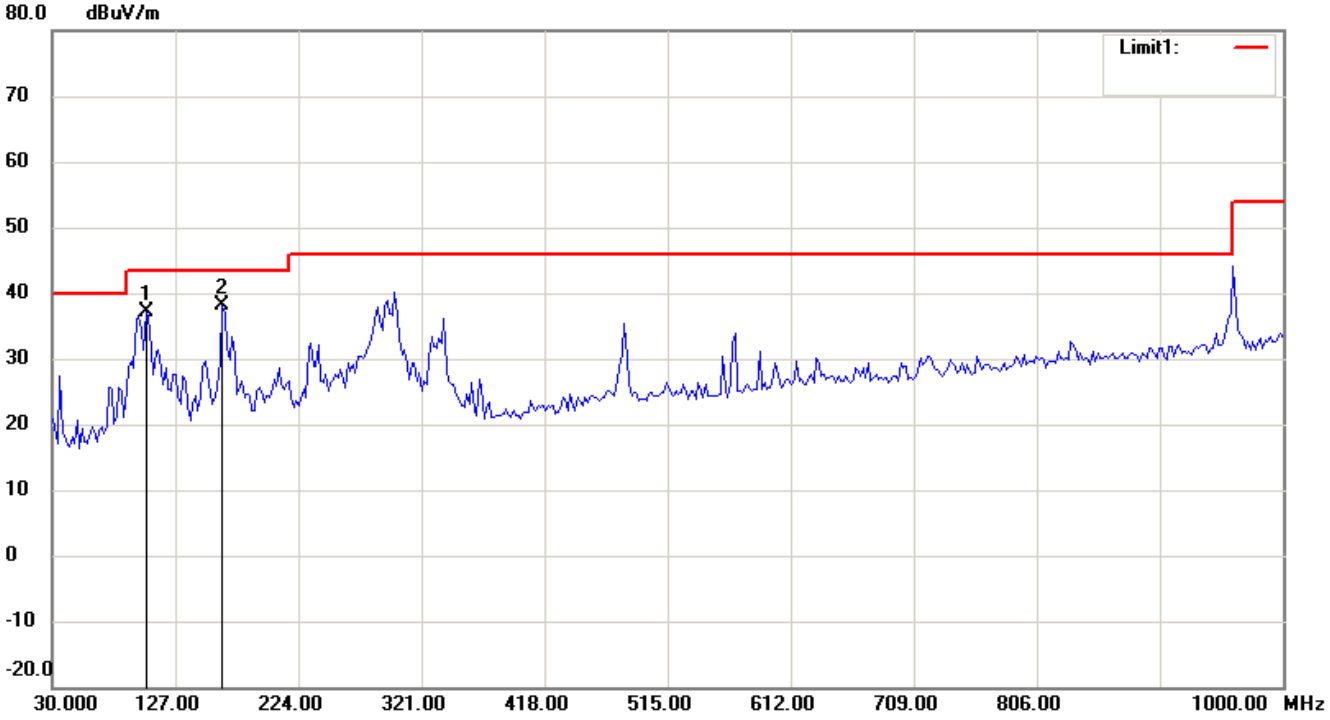
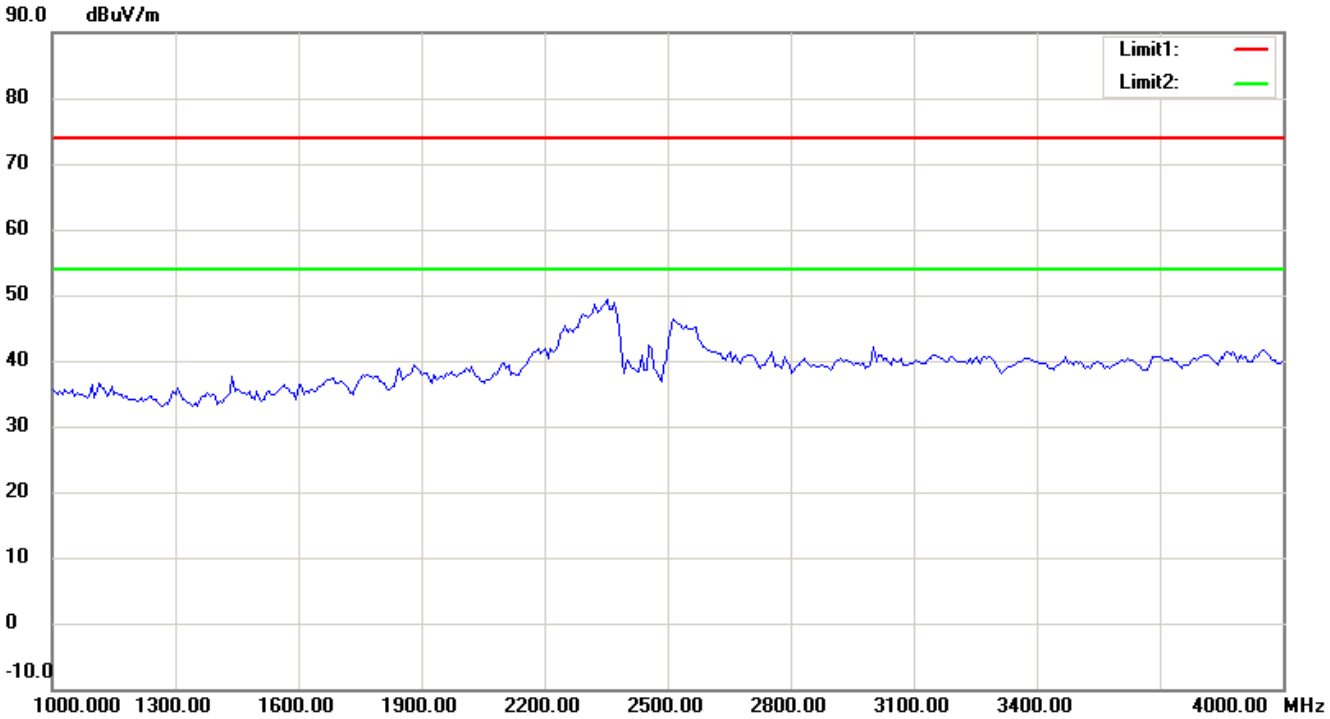
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

802.11n 40 MHz_CH7
Antenna Polarization H





Up Line: Peak Limit Line Down Line: Ave Limit Line
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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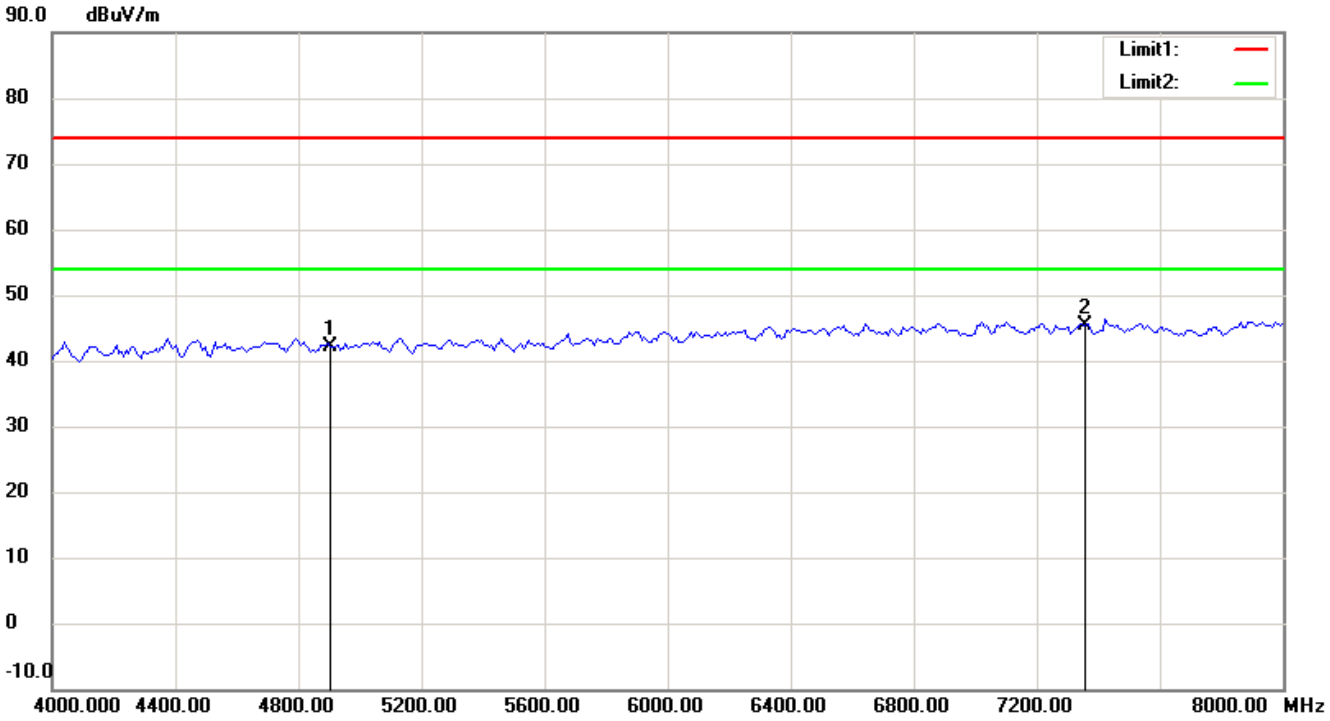

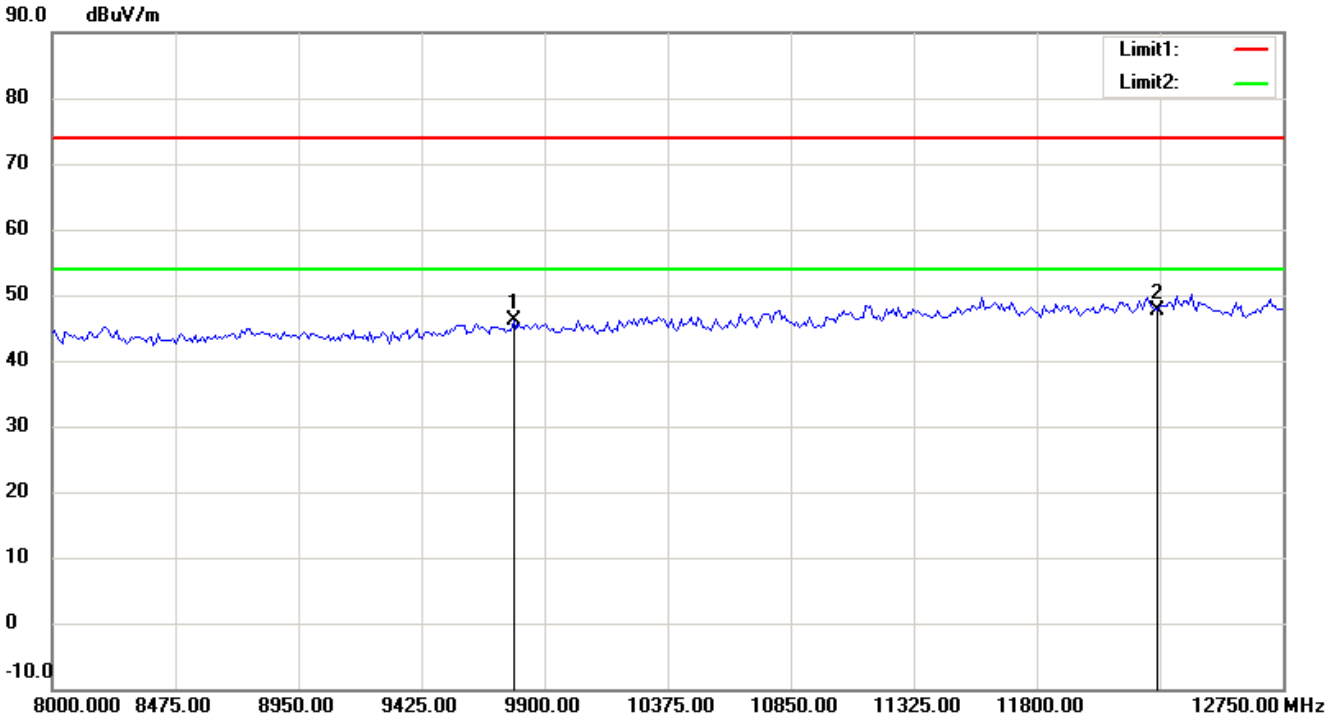

Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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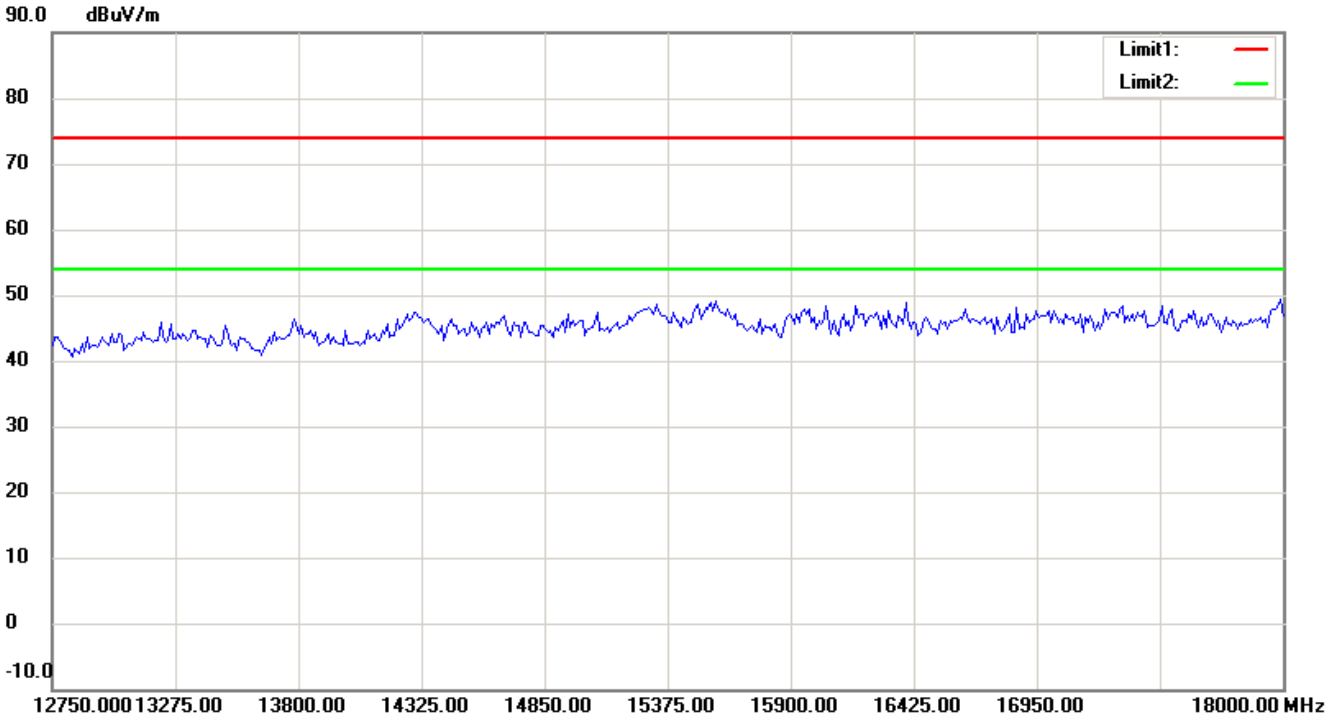
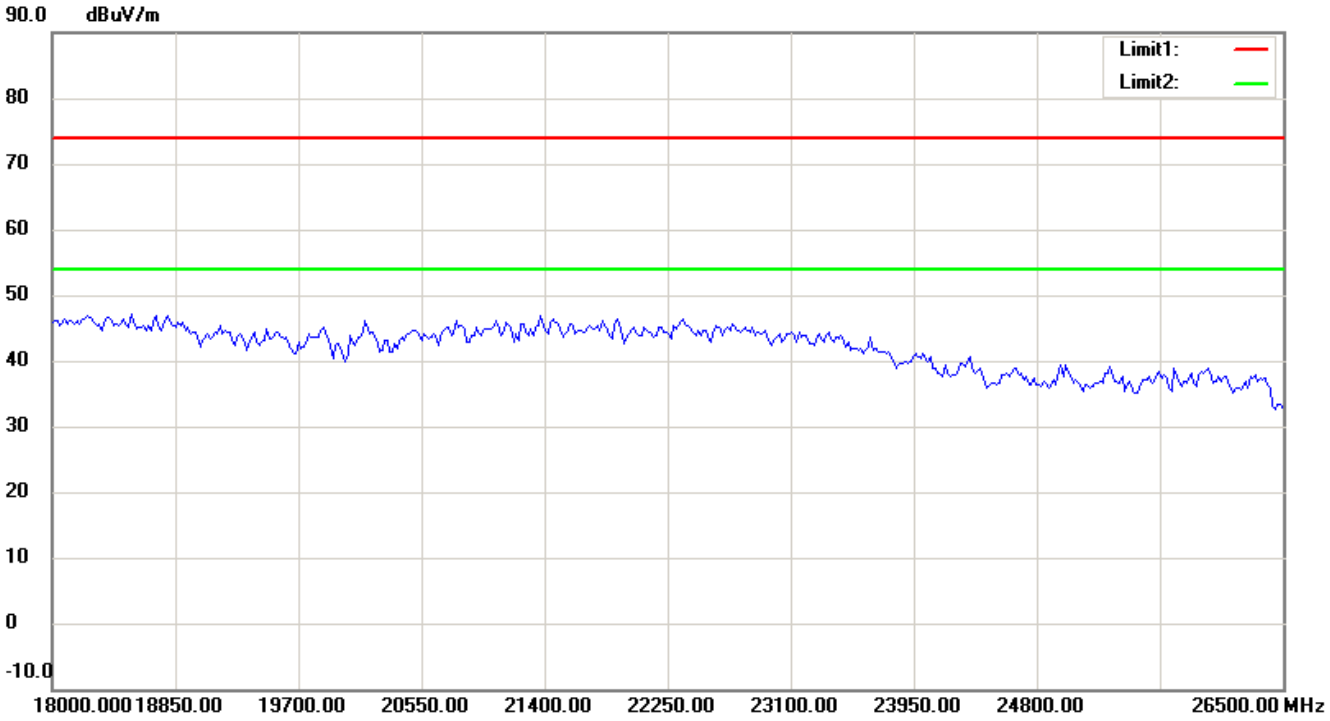
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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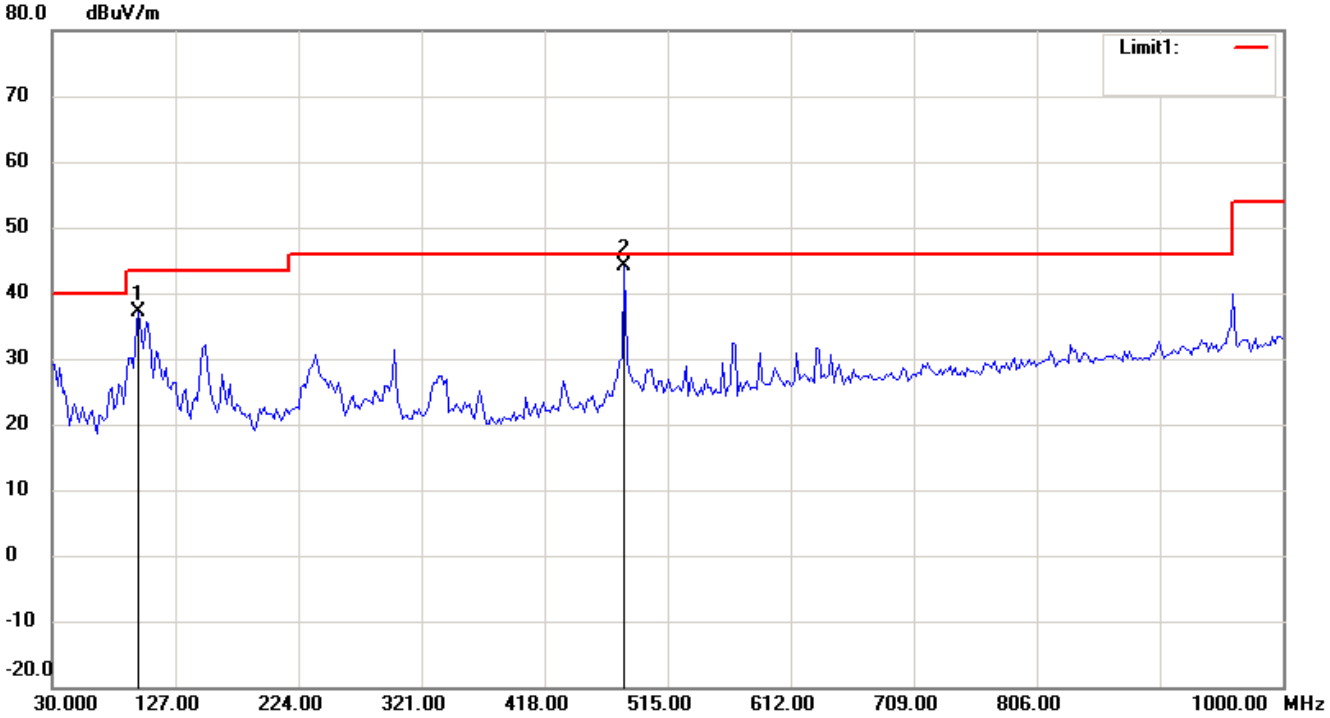
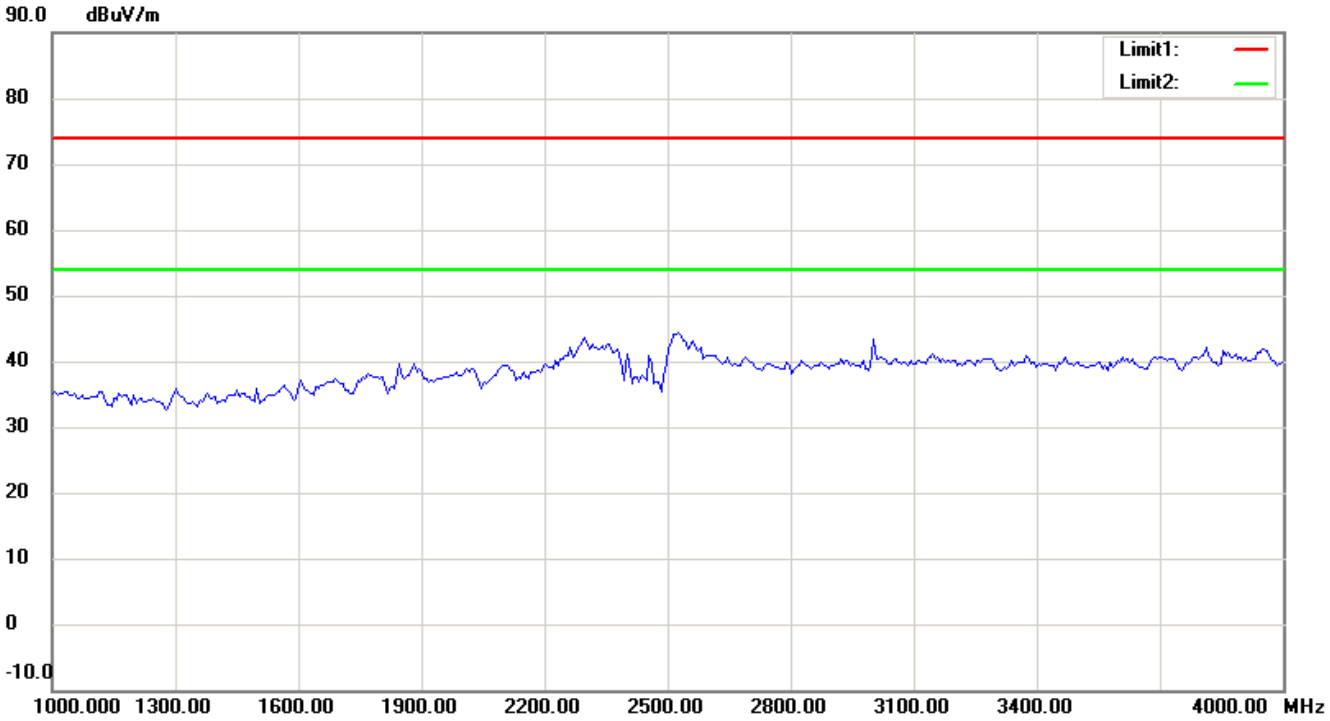
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1

Antenna Polarization V





Up Line: Peak Limit Line Down Line: Ave Limit Line
Note:

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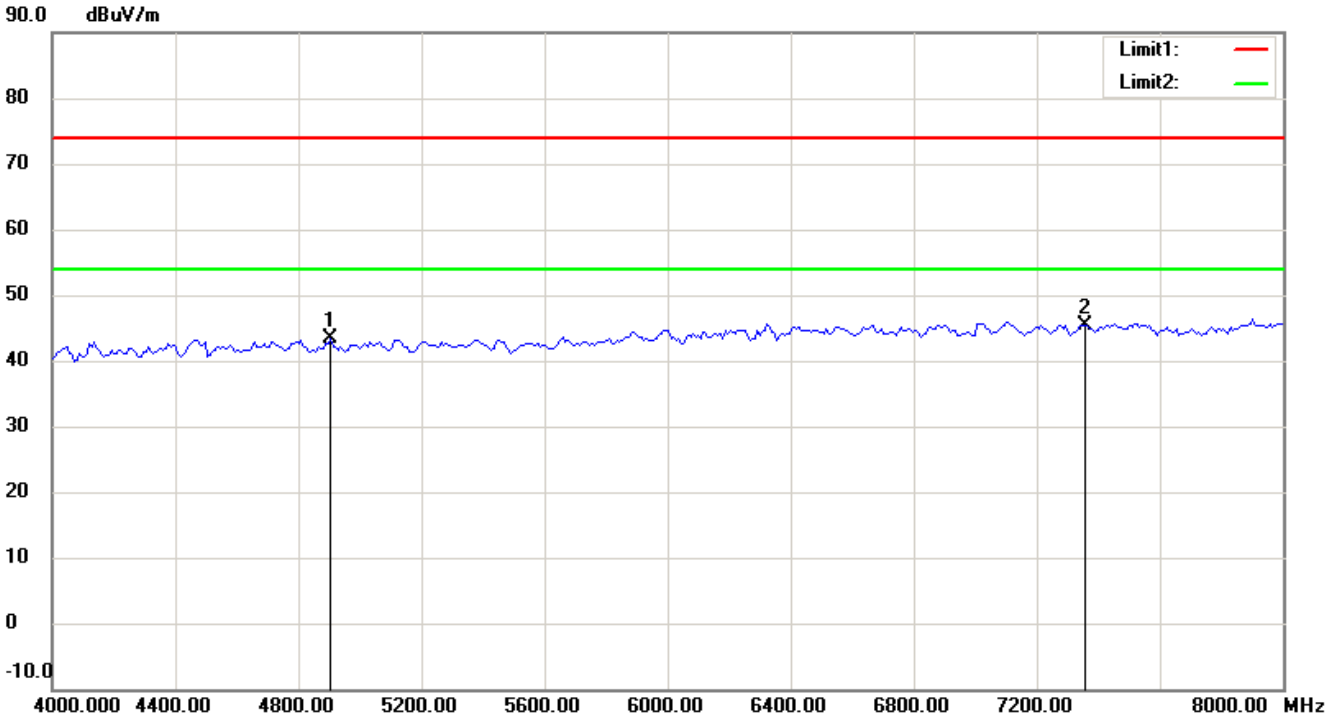
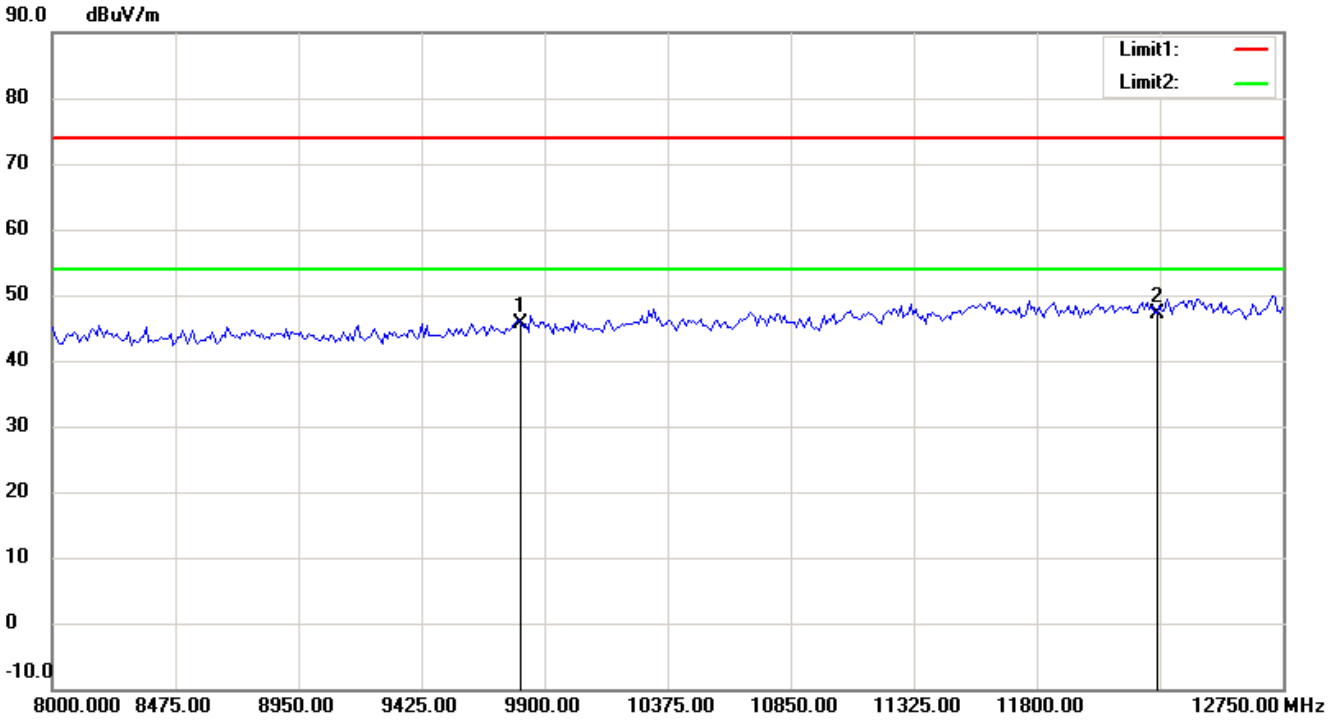
Registration number: W6M21305-13196-C-1
FCC ID: ZTT-TAN1





Up Line: Peak Limit Line Down Line: Ave Limit Line
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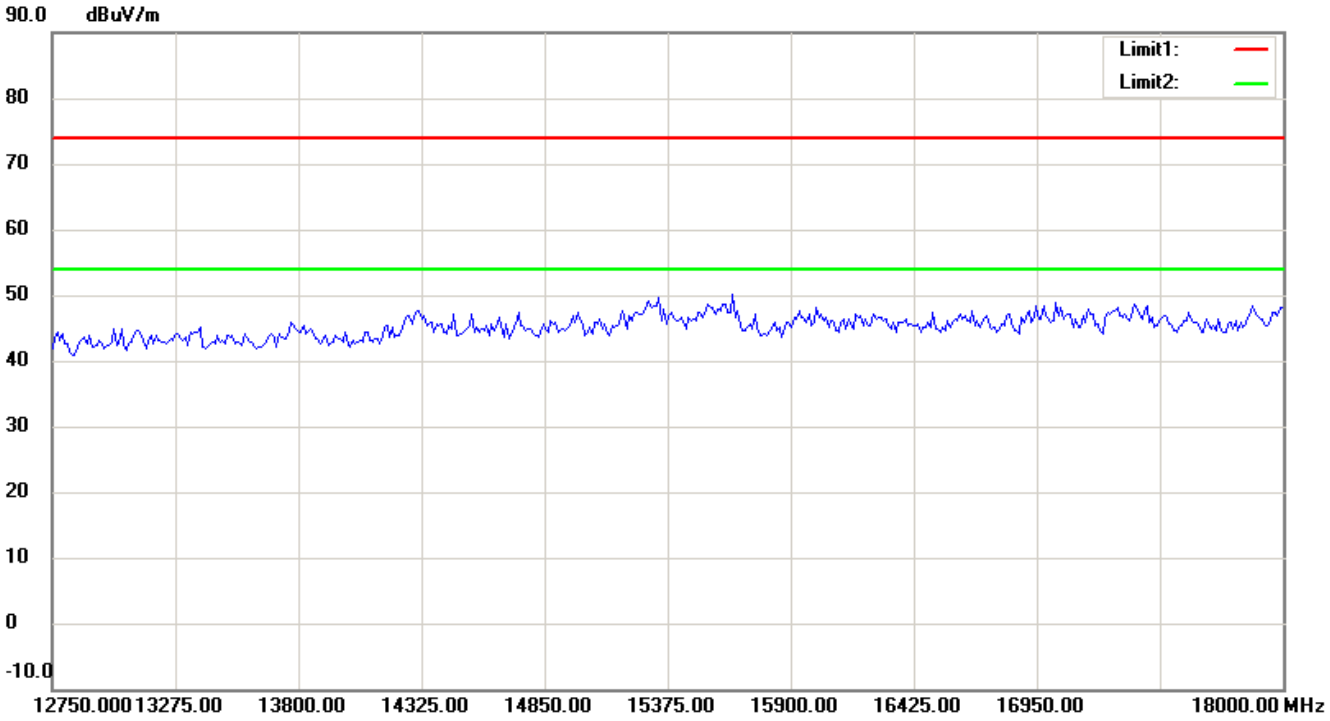

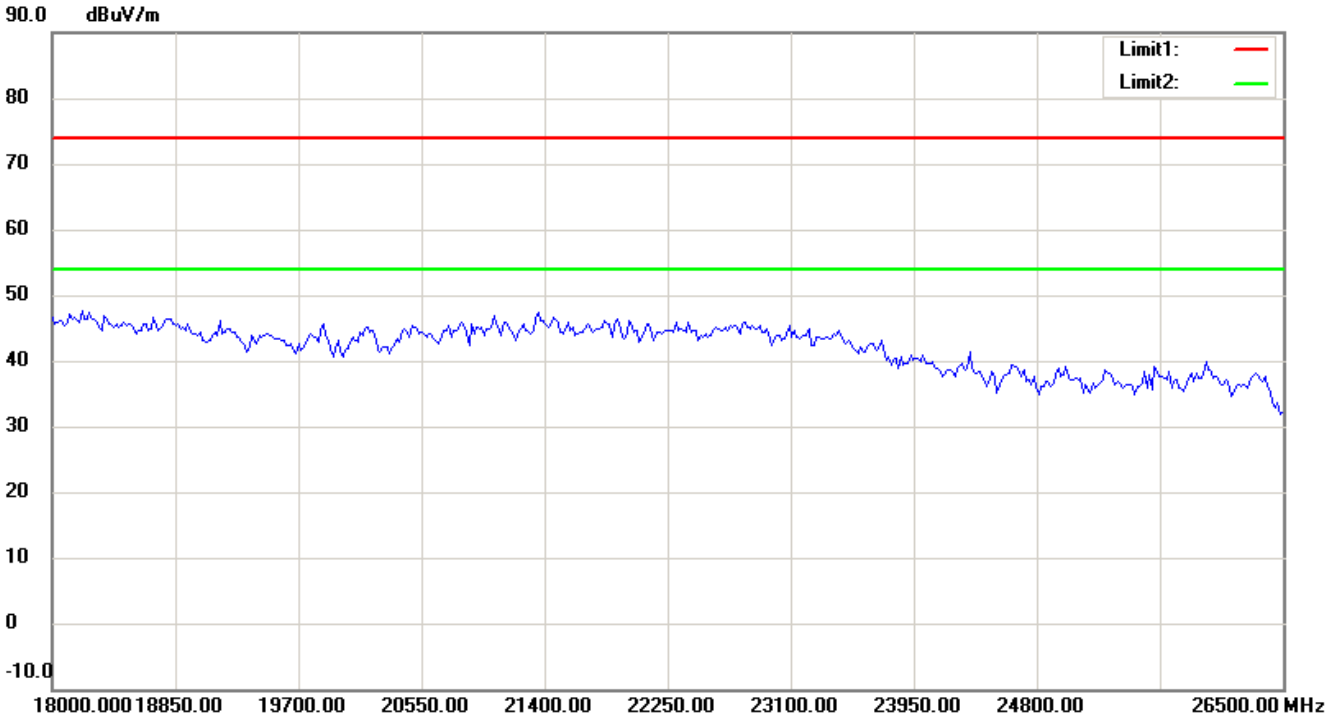

Up Line: Peak Limit Line Down Line: Ave Limit Line
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