

FCC PART 15 SUBPART C TEST REPORT

for

Driver State Sensor (DSS)

Model No.: DSS V3

FCC ID: W5Y-DSSV3

of

Applicant: Seeing Machines Pty Ltd

Address: Level 1, 11 Lonsdale St, Braddon Canberra ACT 2612

AUSTRALIA

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

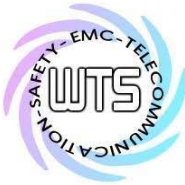
A2LA Accredited No.: 2732.01

Report No.: W6M20811-9455-C-1



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1 General Information

1.1 Notes

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

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

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

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

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

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

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

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.

This report is related to FCC Part 15 C (DSSS and OFDM device).

Tester:

December 15, 2008

Jeff Lin

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

December 15, 2008

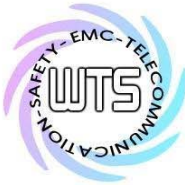
Chang Tse-Ming

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)

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

1.3 Details of approval holder

Name:	Seeing Machines Pty Ltd
Street:	Level 1, 11 Lonsdale St, Braddon
Town:	Canberra ACT 2612
Country:	AUSTRALIA
Telephone:	./.
Fax:	./.



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1.4 Application details

Date of receipt of test item: October 29, 2008
Date of test: from October 30, 2008 to December 12, 2008

1.5 General information of Test item

Type of test item: Driver State Sensor (DSS)
Model Number: DSS V3
Brand Name: Seeing Machines
Multi-listing model number: ./.
Photos: See Appendix

Technical data

Frequency band: 2.4 GHz – 2.4835 GHz
Frequency (ch 1 or A): 2.412 GHz
Frequency (ch 6 or B): 2.437 GHz
Frequency (ch 11 or C): 2.462 GHz
Number of Channels: 11
Operation modes: duplex
Modulation Type: DSSS / OFDM
Fixed point-to-point operation: Yes / No
Type of Antenna: $\lambda/4$ Dipole Antenna
Antenna gain: 3 dBi
Power supply: 12 VDC
Emission designator: DSSS: 15M1G1D
OFDM: 16M2W7D



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Host device: none

Classification:

Fixed Device	<input checked="" type="checkbox"/>
Mobile Device (Human Body distance > 20cm)	<input type="checkbox"/>
Portable Device (Human Body distance < 20cm)	<input type="checkbox"/>

Transmitter

Unom

Mode A (DSSS)

Power (ch 1 or A): Conducted: 14.92 dBm
 Power (ch 6 or B): Conducted: 14.91 dBm
 Power (ch 11 or C): Conducted: 15.10 dBm

Mode B (OFDM)

Power (ch 1 or A): Conducted: 14.35 dBm
 Power (ch 6 or B): Conducted: 14.40 dBm
 Power (ch 11 or C): Conducted: 14.59 dBm

Manufacturer: (if applicable)

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

Additional information: The sample is using WLAN technology according IEEE 802.11 b/g.
 There are two testing modes in the test report.
 Mode A: IEEE 802.11b
 Mode B: IEEE 802.11g
 The scheme for frequency generation, spectrum spreading,
 receiver parameters, synchronization procedure, and other parameters
 are determined by the mentioned standard above.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2008-07)



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2 Technical test

2.1 Summary of test results

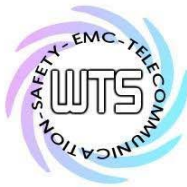
No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

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

2.2 Test environment

Temperature: 23 °C
Relative humidity content: 20 ... 75 %
Air pressure: 86 ... 103 kPa
Power supply: 12 VDC
Extreme conditions parameters: ./.



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2.3 Test Equipment List

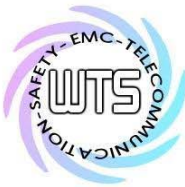
No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2008/9/18	2009/9/17
ETSTW-CE 002	PREREGULATOR MODE DC POWER SUPPLY	None	None		Function Test	
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2008/9/15	2009/9/14
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2008/9/15	2009/9/14
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2008/5/10	2009/5/09
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2008/9/18	2009/9/17
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2008/7/25	2009/7/24
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2008/9/22	2009/9/21
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2008/9/24	2009/9/23
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2008/10/8	2009/10/7
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2008/9/22	2009/9/21
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2008/9/18	2009/9/17
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2008/5/5	2009/5/4
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2008/10/27	2009/10/26
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2008/8/27	2009/8/26
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2008/4/23	2009/4/22
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2008/4/23	2009/4/22
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2008/3/26	2009/3/25
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2008/9/1	2009/8/31
ETSTW-RE 033	WaveRunner 6000A Serie Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2008/6/27	2009/6/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2008/9/1	2009/8/31
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2007/1/11	2009/1/10
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2008/5/2	2009/5/1
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2008/5/22	2009/5/21
ETSTW-RE 047	ESA-E SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2008/6/26	2009/6/25
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2008/9/1	2009/8/31
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/2	2009/5/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2008/7/1	2009/6/30
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	2008/9/1	2009/8/31



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ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2008/10/28	2009/10/27
ETSTW-RE 105	Match Pad	MDCS1500	None	WOKEN	2008/10/9	2009/10/8
ETSTW-RE 106	Match Pad	MDCS1510	None	WOKEN	2008/10/9	2009/10/8
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	109439	R&S	2008/9/23	2009/9/22
ETSTW-GSM 23	SPLITTER	4901.19.A	None	SUHNER	2008/9/22	2009/9/21



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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

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

Example:

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

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 C63.4-2003 Section 13.1.2. 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, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 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.



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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 = $20 \log(\text{dwell time}/T)$

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

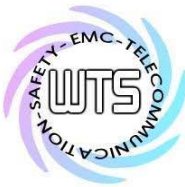


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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent radiated Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c): 15.209	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band Edge Measurement	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 6 dB Bandwidth	15.247(a)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The follows is intended to leave blank.



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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

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
$T_{nom} = 23^{\circ}C$	$V_{nom} = 12\ V$	[dBm]	[dBm]	[dBm]
		14.92	14.91	15.10

Mode B

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
$T_{nom} = 23^{\circ}C$	$V_{nom} = 12\ V$	[dBm]	[dBm]	[dBm]
		14.35	14.40	14.59

Mode A

Test condition	Signal Field strength TX highest power mode
$T_{nom} = 23^{\circ}C, V_{nom} = 12\ V$	dB μ V/m
Frequency [MHz]	--
--	--

Mode B

Test condition	Signal Field strength TX highest power mode
$T_{nom} = 23^{\circ}C, V_{nom} = 12\ V$	dB μ V/m
Frequency [MHz]	--
--	--

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 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: The diagrams for the peak output power measurements are included in Appendix.



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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain
 EIRP = 15.10 dBm + 3 dBi
 = 18.10 dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 021
 ETSTW-RE 028 ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

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	32.3593	Peak value
D	dB		
AG	dBi	3	
G		2.0	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0129	Calculated value

Limits:

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



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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 \leq 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:

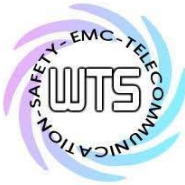
“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

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 = $20 \log (\text{dwell time} / 100\text{ms})$

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

Explanation: See attached diagrams in Appendix.



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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:

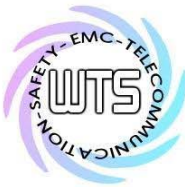
“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

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 = $20 \log (\text{dwell time}/100\text{ms})$

Test equipment used: ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028 ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043 ETSTW-RE 044

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



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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: DSS V3 Date: 2008/12/03-/12/04
 Mode: 802.11b TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

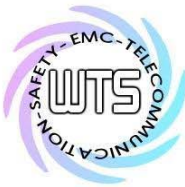
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
55.972	17.28	peak	13.45	30.73	74.00	-43.27	109	150
666.132	20.02	peak	22.89	42.91	74.00	-31.09	341	150

Mode: 802.11b TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1671.343	51.00	---	-9.11	41.89	---	74.00	54.00	-32.11	124	150
4824.000	40.94	---	-1.30	39.64	---	74.00	54.00	-34.36	231	150
7236.000	45.98	---	1.86	47.84	---	74.00	54.00	-26.16	334	150
9648.000	20.31	---	25.06	39.37	---	74.00	54.00	-34.63	54	150
12060.000	20.79	---	29.44	44.23	---	74.00	54.00	-29.77	317	150

Mode: 802.11b TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	24.00	peak	13.52	37.52	74.00	-36.48	117	150
666.132	21.41	peak	22.89	44.30	74.00	-29.70	247	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

Mode: 802.11b TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	56.79	---	-9.13	47.66	---	74.00	54.00	-26.34	237	150
4824.000	41.77	---	-1.30	40.47	---	74.00	54.00	-33.53	341	150
7236.000	41.01	---	1.86	42.87	---	74.00	54.00	-31.13	101	150
9648.000	20.00	---	25.06	39.06	---	74.00	54.00	-34.94	237	150
12060.000	21.43	---	29.44	44.87	---	74.00	54.00	-29.13	142	150

Mode: 802.11b TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

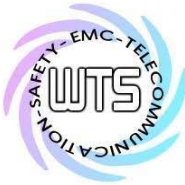
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	17.28	peak	13.52	30.80	74.00	-43.20	164	150
433.267	23.59	peak	18.56	42.15	74.00	-31.85	324	150

Mode: 802.11b TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	53.28	---	-9.13	44.15	---	74.00	54.00	-29.85	237	150
4873.748	41.53	---	-1.30	40.23	---	74.00	54.00	-33.77	167	150
7311.000	43.39	---	1.82	45.21	---	74.00	54.00	-28.79	207	150
9748.000	20.09	---	24.94	39.03	---	74.00	54.00	-34.97	327	150
12185.000	21.19	---	29.74	44.93	---	74.00	54.00	-29.07	297	150

Mode: 802.11b TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	24.29	peak	13.52	37.81	74.00	-36.19	197	150
666.132	21.70	peak	22.89	44.59	74.00	-29.41	21	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

Mode: 802.11b TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	51.31	---	-9.13	42.18	---	74.00	54.00	-31.82	301	150
4873.748	42.43	---	-1.30	41.13	---	74.00	54.00	-32.87	213	150
5002.004	42.99	---	-0.90	42.09	---	74.00	54.00	-31.91	213	150
7311.000	41.80	---	1.82	43.62	---	74.00	54.00	-30.38	109	150
9748.000	20.74	---	24.94	39.68	---	74.00	54.00	-34.32	237	150
12185.000	21.00	---	29.74	44.74	---	74.00	54.00	-29.26	184	150

Mode: 802.11b TX CH11 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
58.136	16.72	peak	13.59	30.31	74.00	-43.69	241	150
666.132	18.97	peak	22.89	41.86	74.00	-32.14	217	150

Mode: 802.11b TX CH11 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1669.339	47.91	---	-9.12	38.79	---	74.00	54.00	-35.21	274	150
4929.860	41.38	---	-1.18	40.20	---	74.00	54.00	-33.80	324	150
7390.782	44.02	---	1.98	46.00	---	74.00	54.00	-28.00	108	150
9848.000	21.49	---	25.49	40.98	---	74.00	54.00	-33.02	64	150
12310.000	21.1	---	30.04	45.14	---	74.00	54.00	-28.86	239	150

Mode: 802.11b TX CH11 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	23.66	peak	13.52	37.18	74.00	-36.82	347	150
666.132	18.67	peak	22.89	41.56	74.00	-32.44	279	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

Mode: 802.11b TX CH11 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	51.08	---	-9.13	41.95	---	74.00	54.00	-32.05	234	150
4921.844	42.96	---	-1.21	41.75	---	74.00	54.00	-32.25	234	150
7386.000	41.88	---	1.97	43.85	---	74.00	54.00	-30.15	139	150
9848.000	20.84	---	25.49	40.33	---	74.00	54.00	-33.67	174	150
12310.000	20.79	---	30.04	44.83	---	74.00	54.00	-29.17	261	150

Mode: 802.11g TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

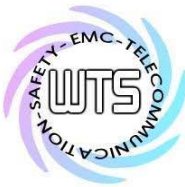
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
54.890	17.08	peak	13.38	30.46	74.00	-43.54	349	150
666.132	19.84	peak	22.89	42.73	74.00	-31.27	357	150

Mode: 802.11g TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	51.92	---	-9.13	42.79	---	74.00	54.00	-31.21	135	150
4824.000	39.33	---	-1.30	38.03	---	74.00	54.00	-35.97	137	150
7236.000	40.62	---	1.86	42.48	---	74.00	54.00	-31.52	224	150
9648.000	19.59	---	25.06	38.65	---	74.00	54.00	-35.35	37	150
12060.000	20.52	---	29.44	43.96	---	74.00	54.00	-30.04	197	150

Mode: 802.11g TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.315	23.17	peak	13.62	36.79	74.00	-37.21	247	150
666.132	21.74	peak	22.89	44.63	74.00	-29.37	197	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

Mode: 802.11g TX CH1 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	49.66	---	-9.13	40.53	---	74.00	54.00	-33.47	137	150
4824.000	39.50	---	-1.30	38.20	---	74.00	54.00	-35.80	237	150
7236.000	40.89	---	1.86	42.75	---	74.00	54.00	-31.25	106	150
9648.000	19.12	---	25.06	38.18	---	74.00	54.00	-35.82	234	150
12060.000	19.47	---	29.44	42.91	---	74.00	54.00	-31.09	187	150

Mode: 802.11g TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.020	16.52	peak	13.54	30.06	74.00	-43.94	164	150
666.132	20.24	peak	22.89	43.13	74.00	-30.87	237	150

Mode: 802.11g TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Horizontal Humidity: 51 %

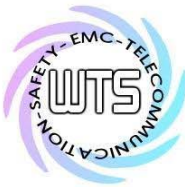
Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	51.23	---	-9.13	42.10	---	74.00	54.00	-31.90	274	150
4874.000	39.38	---	-1.30	38.08	---	74.00	54.00	-35.92	137	150
7311.000	41.31	---	1.82	43.13	---	74.00	54.00	-30.87	37	150
9748.000	20.22	---	24.94	39.16	---	74.00	54.00	-34.84	23	150
12185.000	20.71	---	29.74	44.45	---	74.00	54.00	-29.55	106	150

Mode: 802.11g TX CH6 Temperature: 24.00 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51.00 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	23.18	peak	13.52	36.70	74.00	-37.30	274	150
666.132	21.01	peak	22.89	43.90	74.00	-30.10	274	150

Mode: 802.11g TX CH6 Temperature: 24 °C Engineer: Jeff
 Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	55.01	---	-9.13	45.88	---	74.00	54.00	-28.12	274	150
4874.000	39.32	---	-1.30	38.02	---	74.00	54.00	-35.98	132	150
7311.000	41.59	---	1.82	43.41	---	74.00	54.00	-30.59	274	150
9748.000	20.01	---	24.94	38.95	---	74.00	54.00	-35.05	137	150
12185.000	20.64	---	29.74	44.38	---	74.00	54.00	-29.62	245	150



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
FCC ID: W5Y-DSSV3

Mode: 802.11g TX CH11 Temperature: 24 °C Engineer: Jeff
Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
48.397	17.90	peak	13.58	31.48	74.00	-42.52	264	150
666.132	19.94	peak	22.89	42.83	74.00	-31.17	197	150

Mode: 802.11g TX CH11 Temperature: 24 °C Engineer: Jeff
Polarization: Horizontal Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	50.49	---	-9.13	41.36	---	74.00	54.00	-32.64	37	150
4924.000	38.95	---	-1.20	37.75	---	74.00	54.00	-36.25	274	150
7386.000	41.69	---	1.97	43.66	---	74.00	54.00	-30.34	104	150
9484.000	21.41	---	24.80	40.21	---	74.00	54.00	-33.79	319	150
12310.000	21.14	---	30.04	45.18	---	74.00	54.00	-28.82	87	150

Mode: 802.11g TX CH11 Temperature: 24 °C Engineer: Jeff
Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
50.561	23.83	peak	13.52	37.35	74.00	-36.65	320	150
666.132	22.11	peak	22.89	45.00	74.00	-29.00	237	150

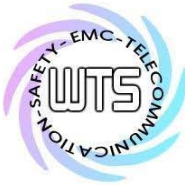
Mode: 802.11g TX CH11 Temperature: 24 °C Engineer: Jeff
Polarization: Vertical Humidity: 51 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
1667.335	53.77	---	-9.13	44.64	---	74.00	54.00	-29.36	347	150
5002.004	41.69	---	-0.90	40.79	---	74.00	54.00	-33.21	234	150
7386.000	42.33	---	1.97	44.30	---	74.00	54.00	-29.70	107	150
9848.000	20.8	---	25.49	40.29	---	74.00	54.00	-33.71	164	150
12310.000	21.91	---	30.04	45.95	---	74.00	54.00	-28.05	284	150

- 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. See the attached diagram as appendix.

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

Test equipment used: ETSTW-RE003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
ETSTW-RE029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043
ETSTW-RE044



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3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(c) 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

Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T _{nom} = 23°C	V _{nom} = 12 V	40.11 dB	52.76 dB

Mode B

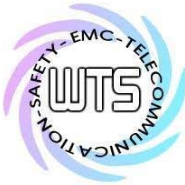
Test conditions		Attenuation at or outside band-edges	
		Lower Band-edge	Upper Band-edge
T _{nom} = 23°C	V _{nom} = 12 V	42.27 dB	49.26 dB

Limit:

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

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028
 ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

Explanation: Please see attached diagram as appendix.



Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

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

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
T _{nom} = 23°C	V _{nom} = 12 V	12.179487179 MHz	12.211538462 MHz	12.307692308 MHz

Mode B

Test conditions		6 dB Bandwidth		
		Channel 1	Channel 6	Channel 11
T _{nom} = 23°C	V _{nom} = 12 V	16.474358974 MHz	16.474358974 MHz	16.474358974 MHz

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 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: See attached diagrams in Appendix.



Registration number: W6M20811-9455-C-1
 FCC ID: W5Y-DSSV3

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

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 12\ V$	-6.59	-9.02	-6.61

Mode B

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
$T_{nom} = 23^{\circ}C$	$V_{nom} = 12\ V$	-19.51	-19.46	-19.47

Limits:

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

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Explanation: See attached diagrams in Appendix.



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FCC ID: W5Y-DSSV3

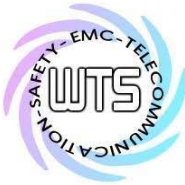
3.9 Radiated Emission from Digital Part

Note: About test result of digital part, please refer to test report no.: W6M20811-9455-P-15B.

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 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028 ETSTW-RE 029
ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043 ETSTW-RE 044



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1
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3.10 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.

Model: DSS V3 Date: 2008/11/28
 Mode: Temperature: 24 °C Engineer: Jeff
 Polarization: N Humidity: 50 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1522	30.00	7.20	10.18	40.18	17.38	65.88	55.88	-25.70
0.3110	24.00	1.60	10.01	34.01	11.61	59.94	49.94	-25.93
0.6000	17.75	0.18	10.16	27.91	10.34	56.00	46.00	-28.09
3.7400	19.25	10.08	10.13	29.38	20.21	56.00	46.00	-25.79
6.7222	14.94	5.95	10.27	25.21	16.22	60.00	50.00	-33.78
29.1667	29.10	27.80	10.64	39.74	38.44	60.00	50.00	-11.56

Model: DSS V3 Date: 2008/11/28
 Mode: Temperature: 24 °C Engineer: Jeff
 Polarization: L1 Humidity: 50 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1624	31.86	12.21	10.16	42.02	22.37	65.34	55.34	-23.32
0.2927	31.39	8.30	10.01	41.40	18.31	60.45	50.45	-19.05
1.4950	13.87	2.40	10.09	23.96	12.49	56.00	46.00	-32.04
3.7050	18.53	9.33	10.13	28.66	19.46	56.00	46.00	-26.54
10.8889	12.79	4.16	10.51	23.30	14.67	60.00	50.00	-35.33
29.1667	29.40	28.60	10.64	40.04	39.24	60.00	50.00	-10.76

Frequency	Level (dB μ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line



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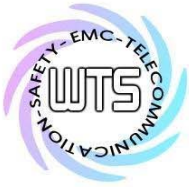
Registration number: W6M20811-9455-C-1
FCC ID: W5Y-DSSV3

- 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, AVG = Average**
 - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
 - 5. See attached diagrams in Appendix.**

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 003 ETSTW-CE 004 ETSTW-CE 006



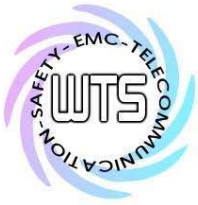
Appendix

A Measurement diagrams

1. Peak Output Power
2. Spurious Emissions radiated
3. Band Edge Measurement
4. Minimum 6dB Bandwidth
5. Peak Power Spectral Density
6. Power Line Conducted Emission

B Photos

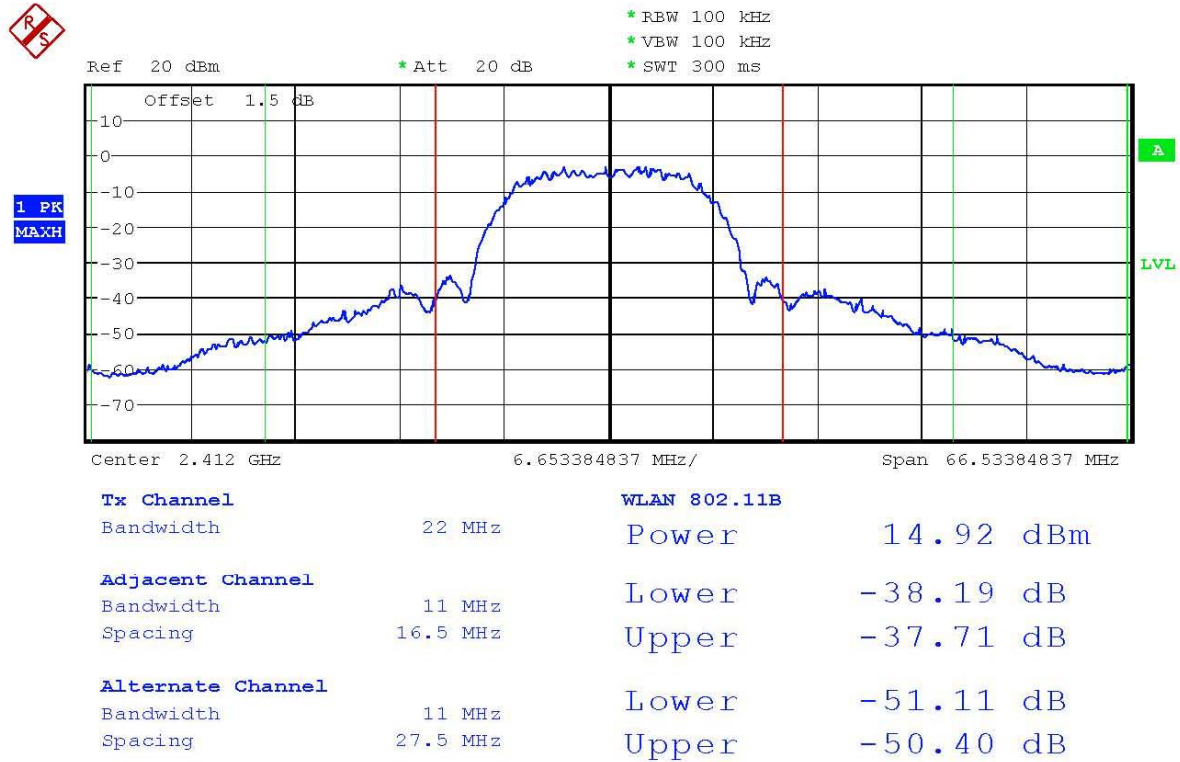
1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission
4. Set Up Photo of Conducted Emission



Registration number: W6M20811-9455-C-1

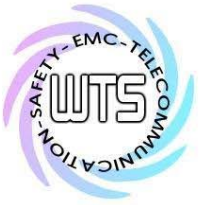
FCC ID: W5Y-DSSV3

Peak Output Power



MAX OUTPUT POWER 802.11b CH1

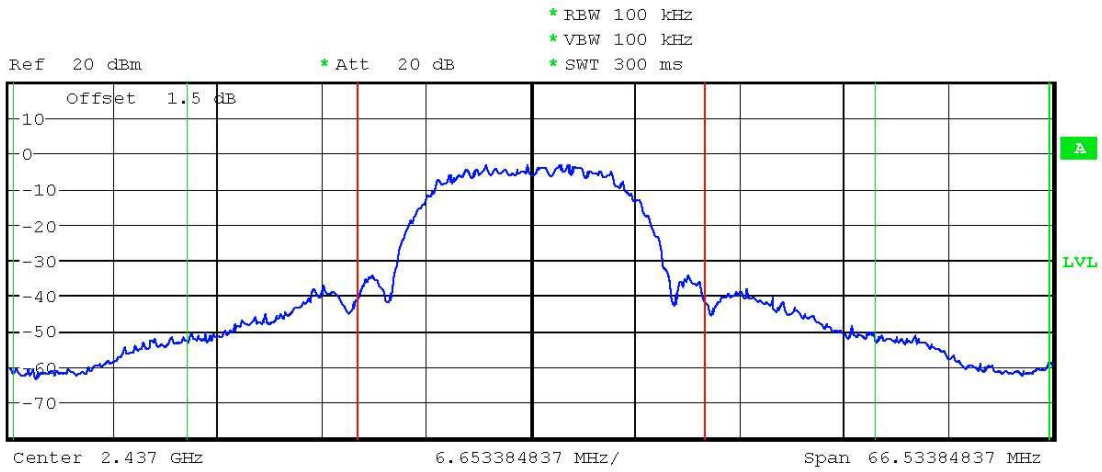
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1

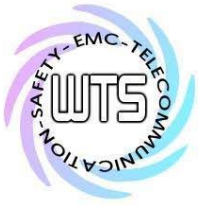
FCC ID: W5Y-DSSV3



Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	14.91 dBm
Adjacent Channel		Lower	-38.92 dB
Bandwidth	11 MHz	Upper	-38.54 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-51.92 dB
Bandwidth	11 MHz	Upper	-50.95 dB
Spacing	27.5 MHz		

MAX OUTPUT POWER 802.11b CH6

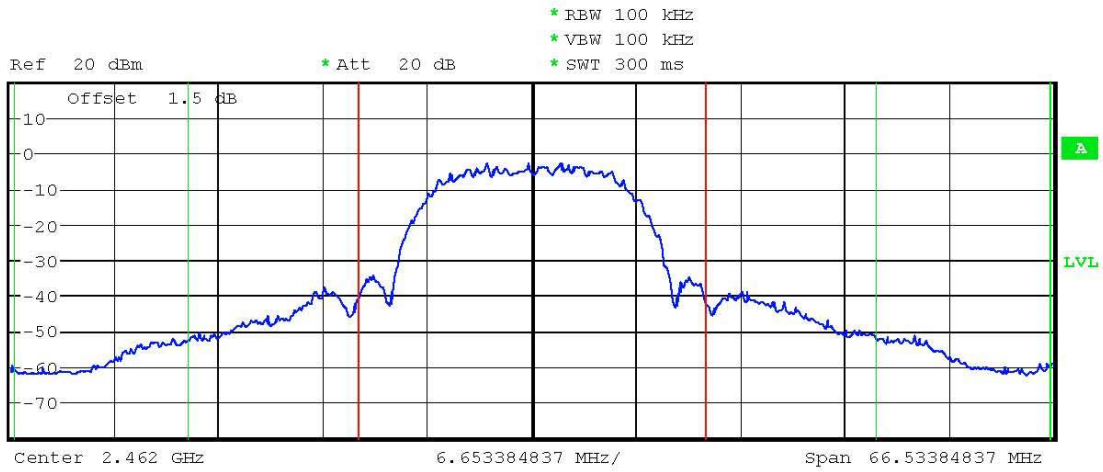
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Worldwide Testing Services(Taiwan) Co., Ltd.

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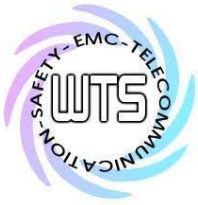
FCC ID: W5Y-DSSV3



Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	15.10 dBm
Adjacent Channel		Lower	-39.57 dB
Bandwidth	11 MHz	Upper	-39.09 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-52.25 dB
Bandwidth	11 MHz	Upper	-51.30 dB
Spacing	27.5 MHz		

MAX OUTPUT POWER 802.11b CH11

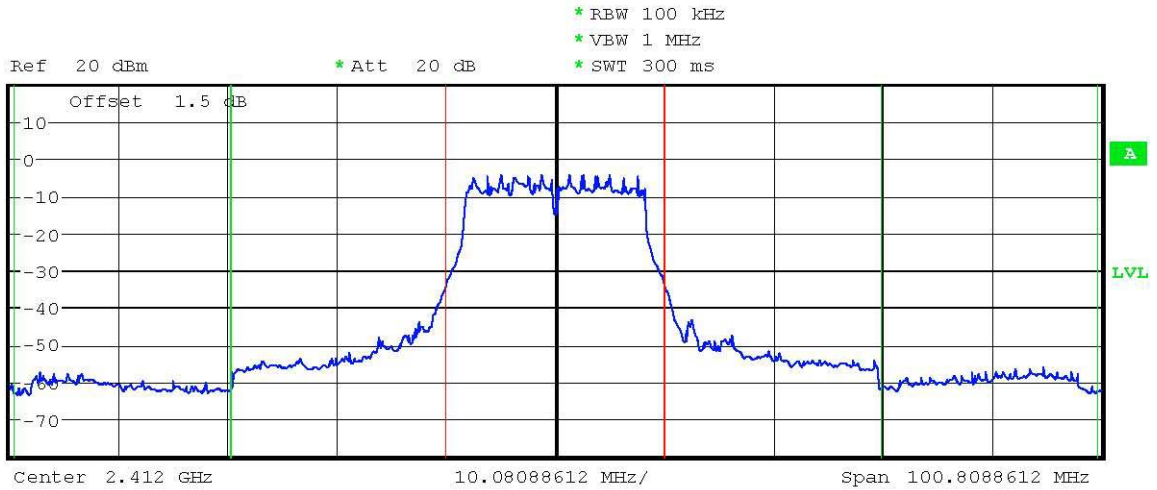
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Worldwide Testing Services(Taiwan) Co., Ltd.

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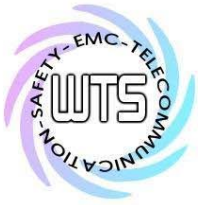
FCC ID: W5Y-DSSV3



Tx Channel		WLAN 802.11G	
Bandwidth	20 MHz	Power	14.35 dBm
Adjacent Channel		Lower	-39.63 dB
Bandwidth	20 MHz	Upper	-39.39 dB
Spacing	20 MHz		
Alternate Channel		Lower	-52.65 dB
Bandwidth	20 MHz	Upper	-51.17 dB
Spacing	40 MHz		

MAX OUTPUT POWER 802.11g CH1

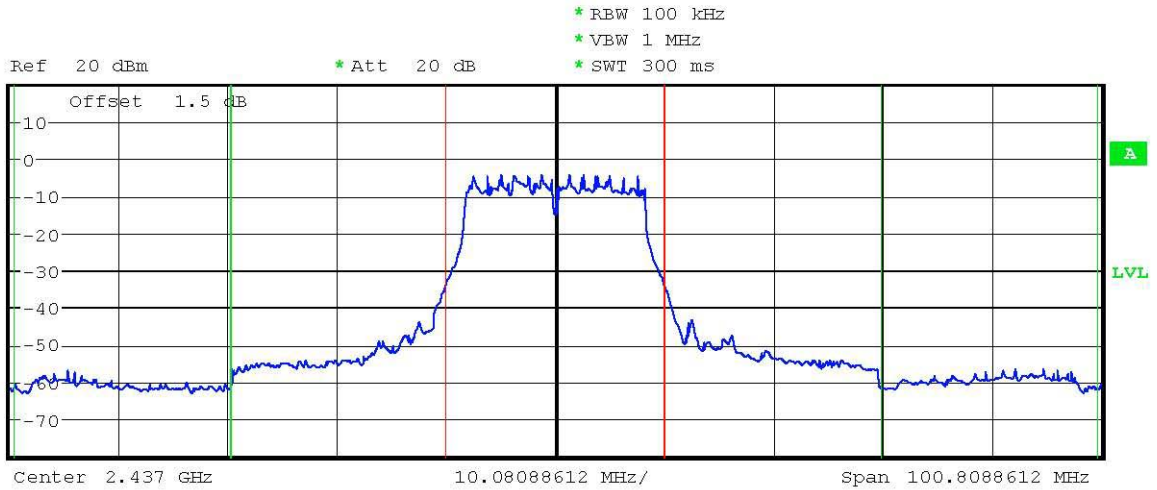
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Worldwide Testing Services(Taiwan) Co., Ltd.

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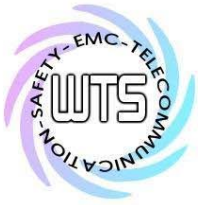
FCC ID: W5Y-DSSV3



Tx Channel		WLAN 802.11G	
Bandwidth	20 MHz	Power	14.40 dBm
Adjacent Channel		Lower	-39.59 dB
Bandwidth	20 MHz	Upper	-39.58 dB
Spacing	20 MHz		
Alternate Channel		Lower	-52.74 dB
Bandwidth	20 MHz	Upper	-51.34 dB
Spacing	40 MHz		

MAX OUTPUT POWER 802.11g CH6

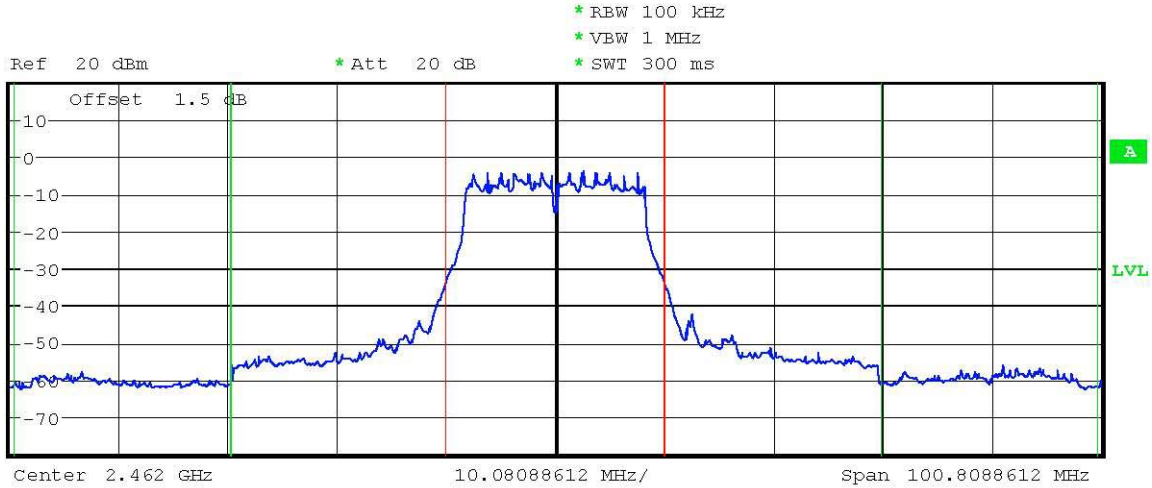
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Worldwide Testing Services(Taiwan) Co., Ltd.

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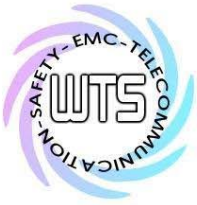
FCC ID: W5Y-DSSV3



Tx Channel		WLAN 802.11G	
Bandwidth	20 MHz	Power	14.59 dBm
Adjacent Channel		Lower	-39.74 dB
Bandwidth	20 MHz	Upper	-39.59 dB
Spacing	20 MHz		
Alternate Channel		Lower	-52.69 dB
Bandwidth	20 MHz	Upper	-51.48 dB
Spacing	40 MHz		

MAX OUTPUT POWER 802.11g CH11

Date: 5.DEC.2008 07:21:48



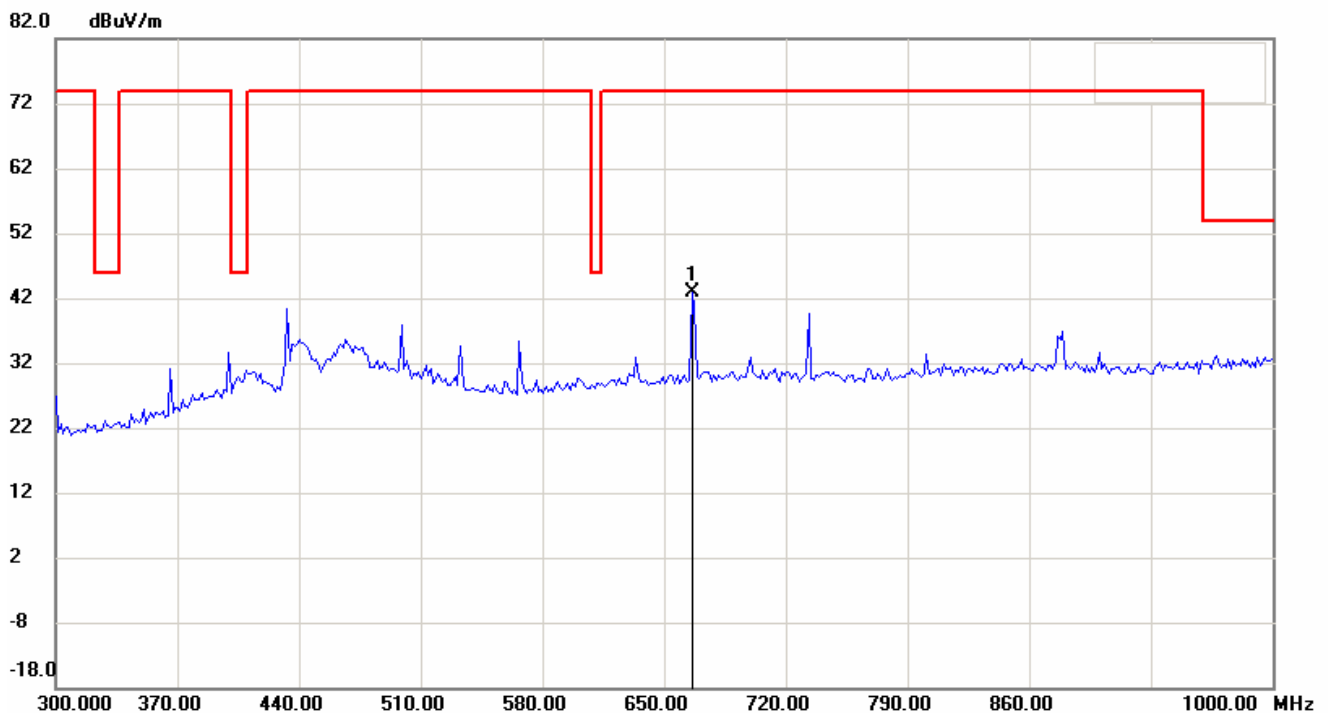
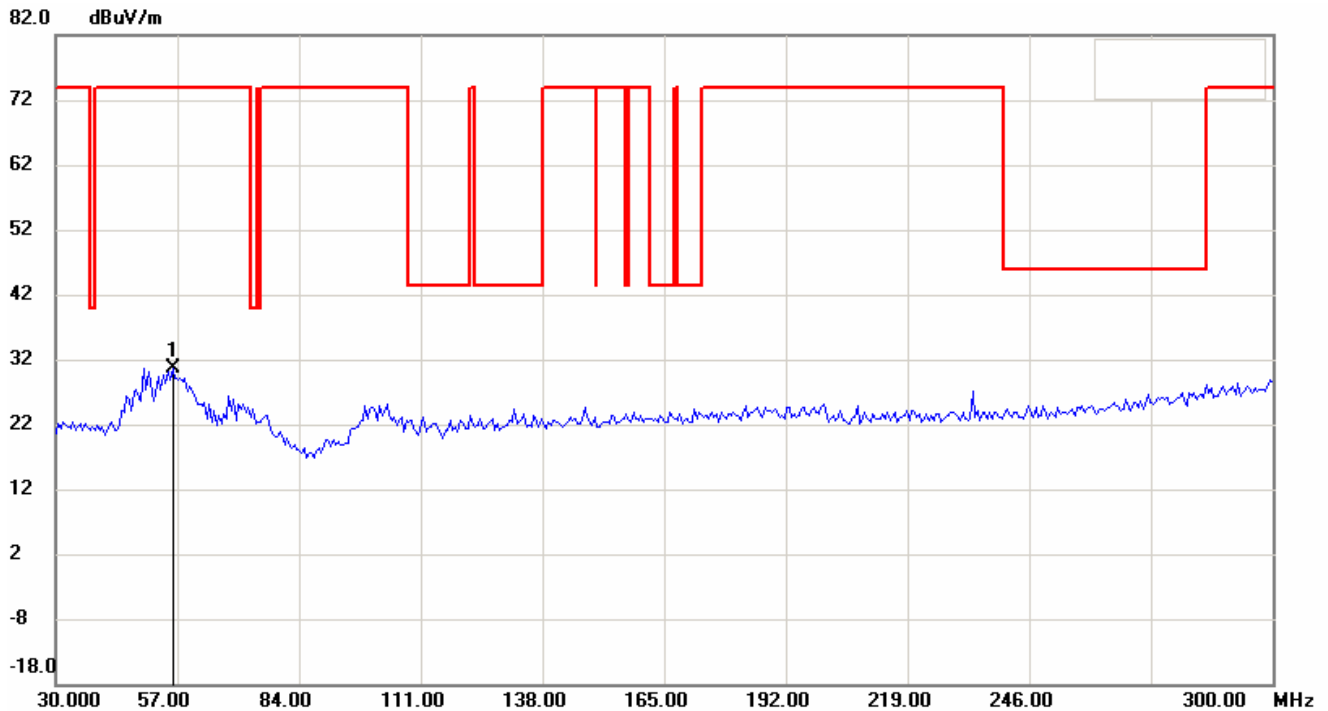
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FCC ID: W5Y-DSSV3

Spurious Emission Radiated

Mode A Low channel

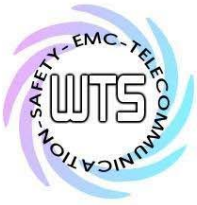
Antenna Polarization H



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

Note:

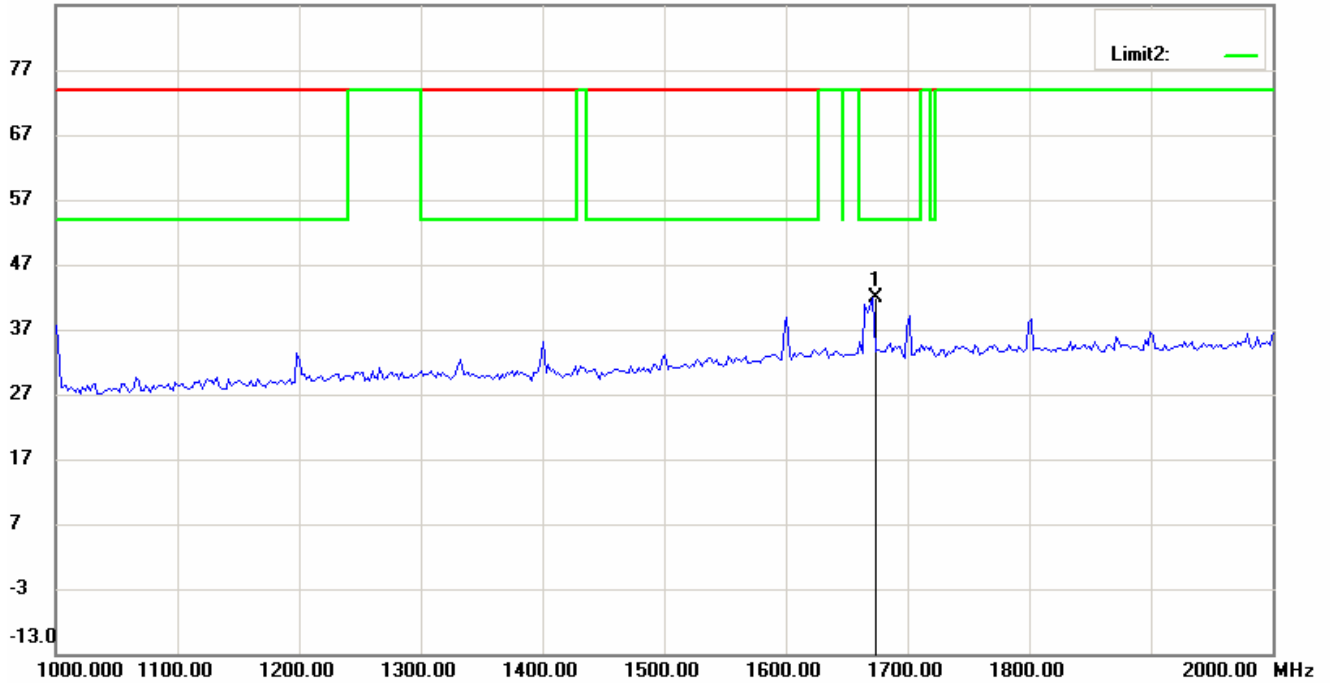
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



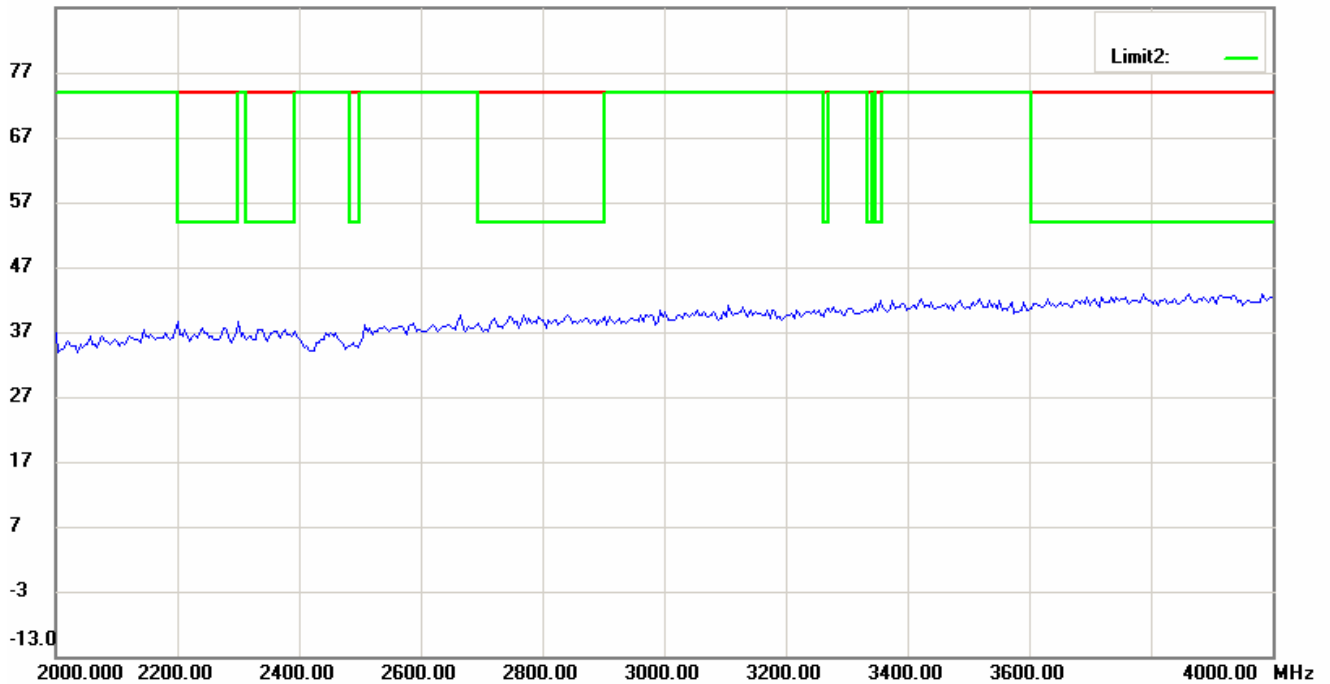
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



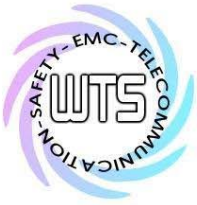
87.0 dBuV/m



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

Note:

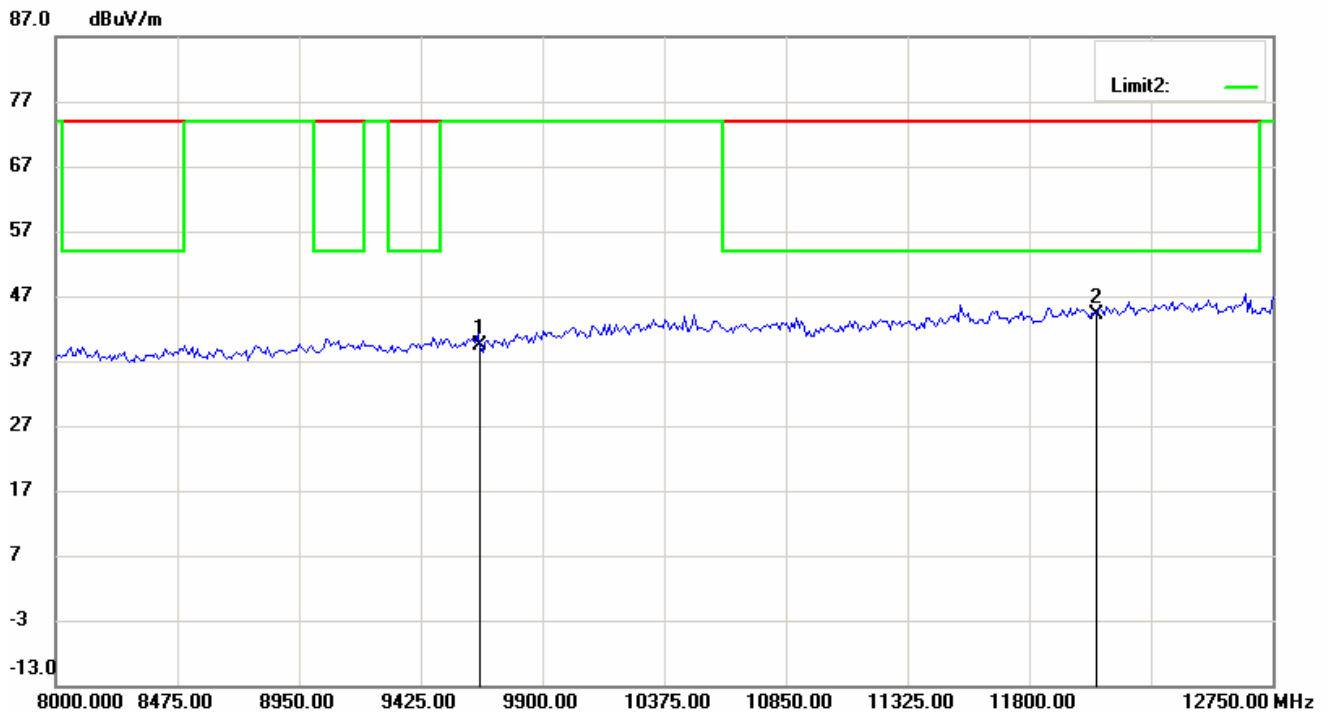
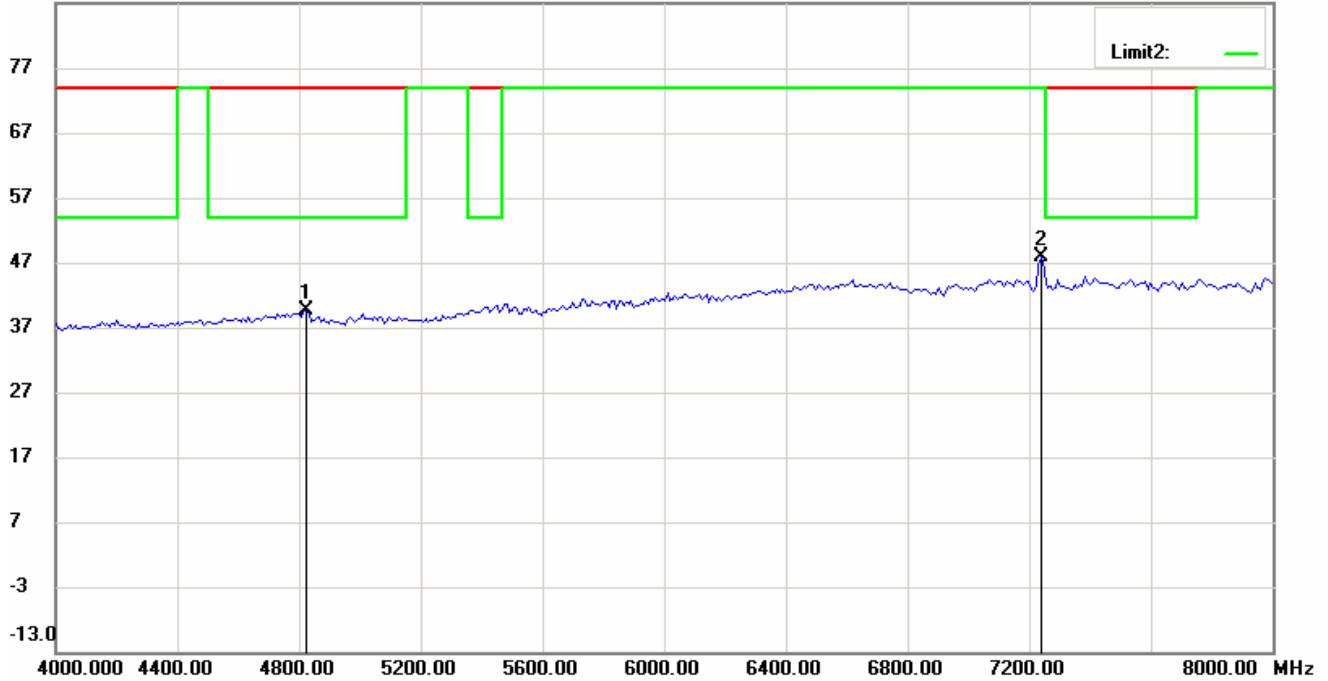
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

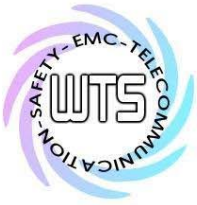
87.0 dBuV/m



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

Note:

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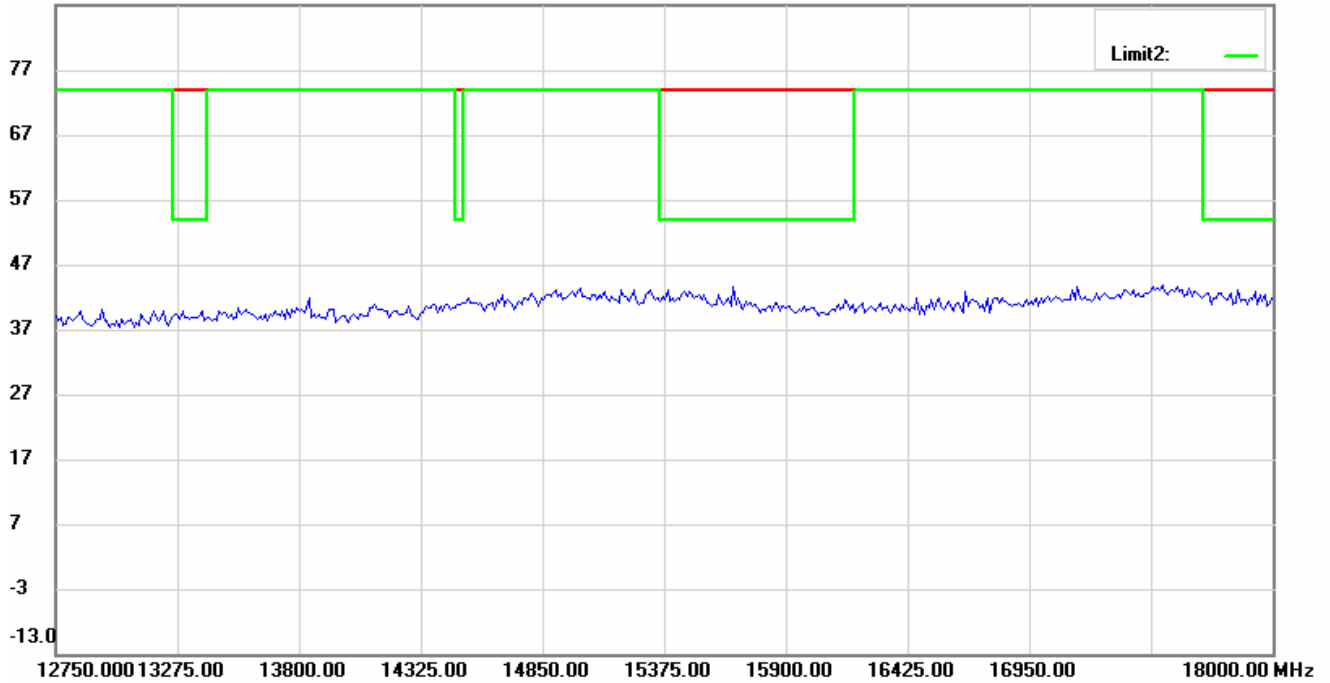


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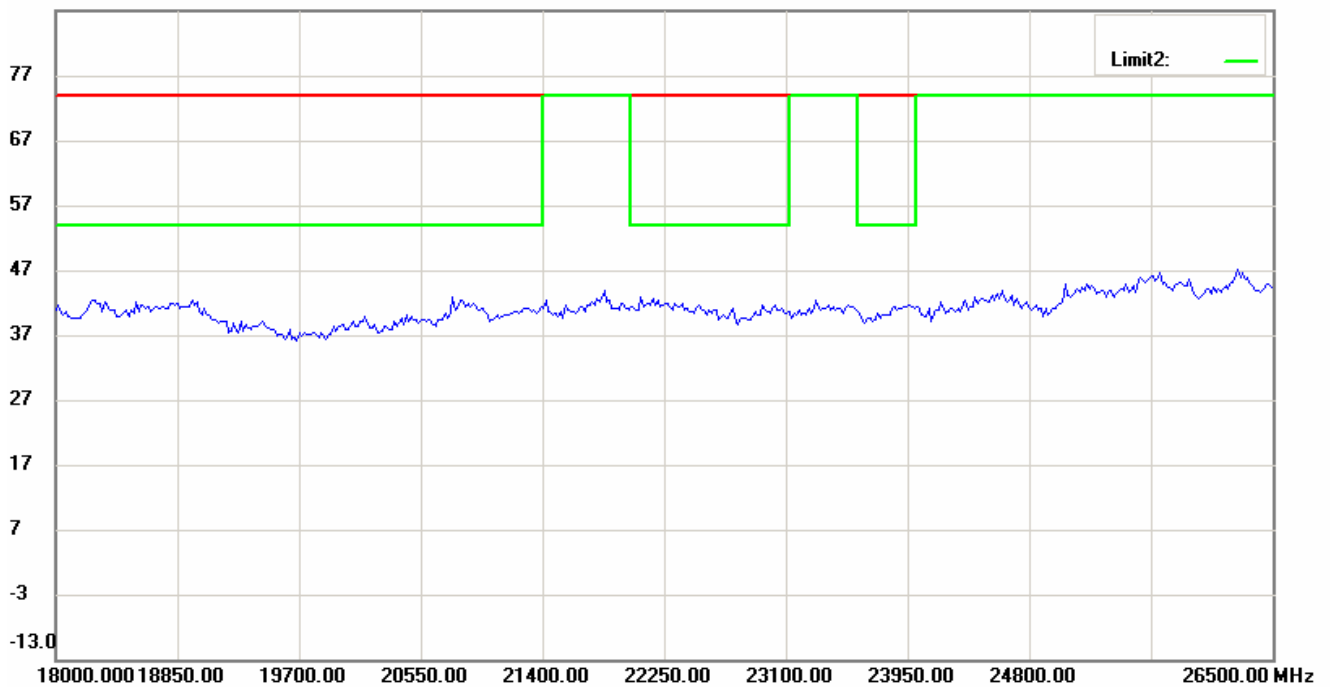
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87.0 dBuV/m



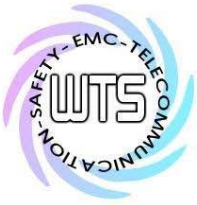
87.0 dBuV/m



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

Note:

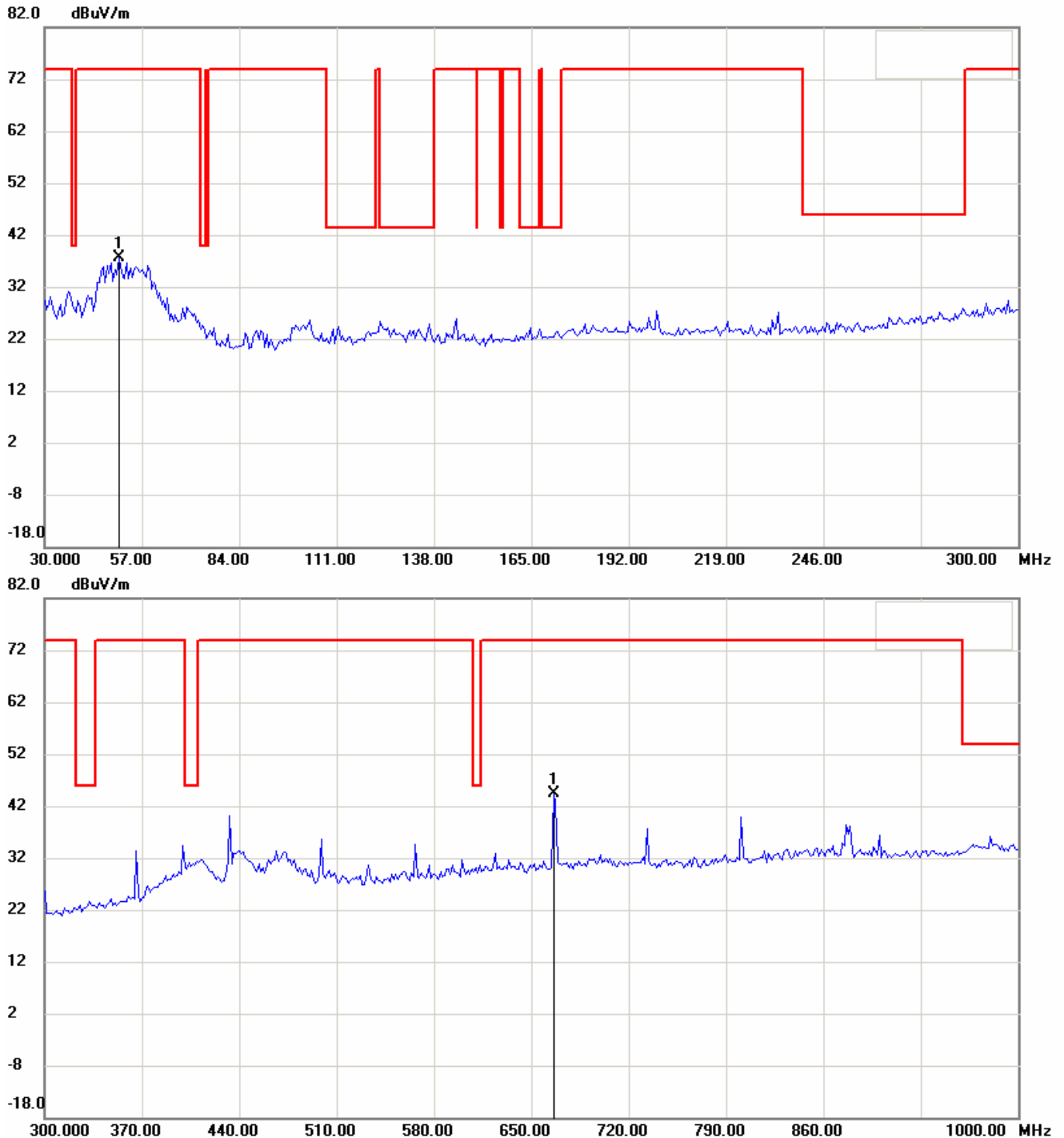
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

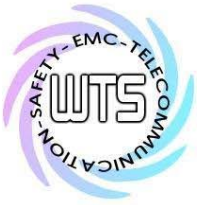
Antenna Polarization V



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

Note:

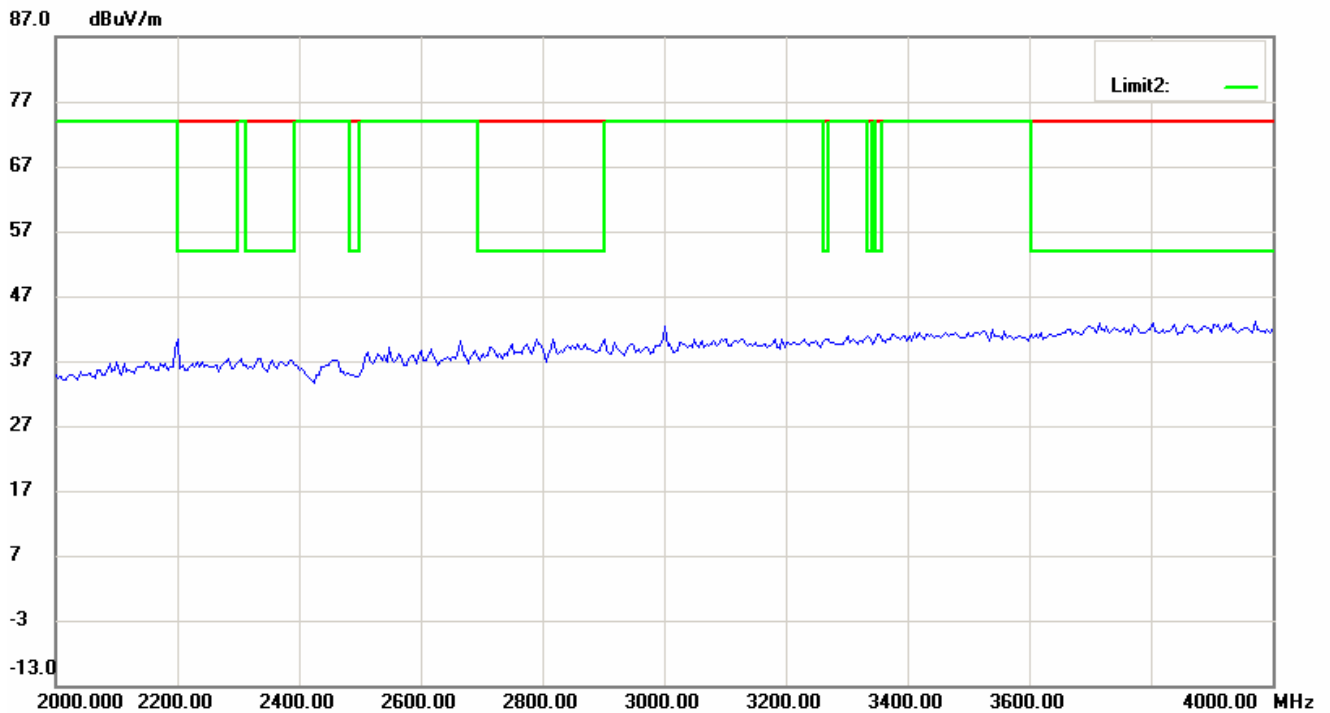
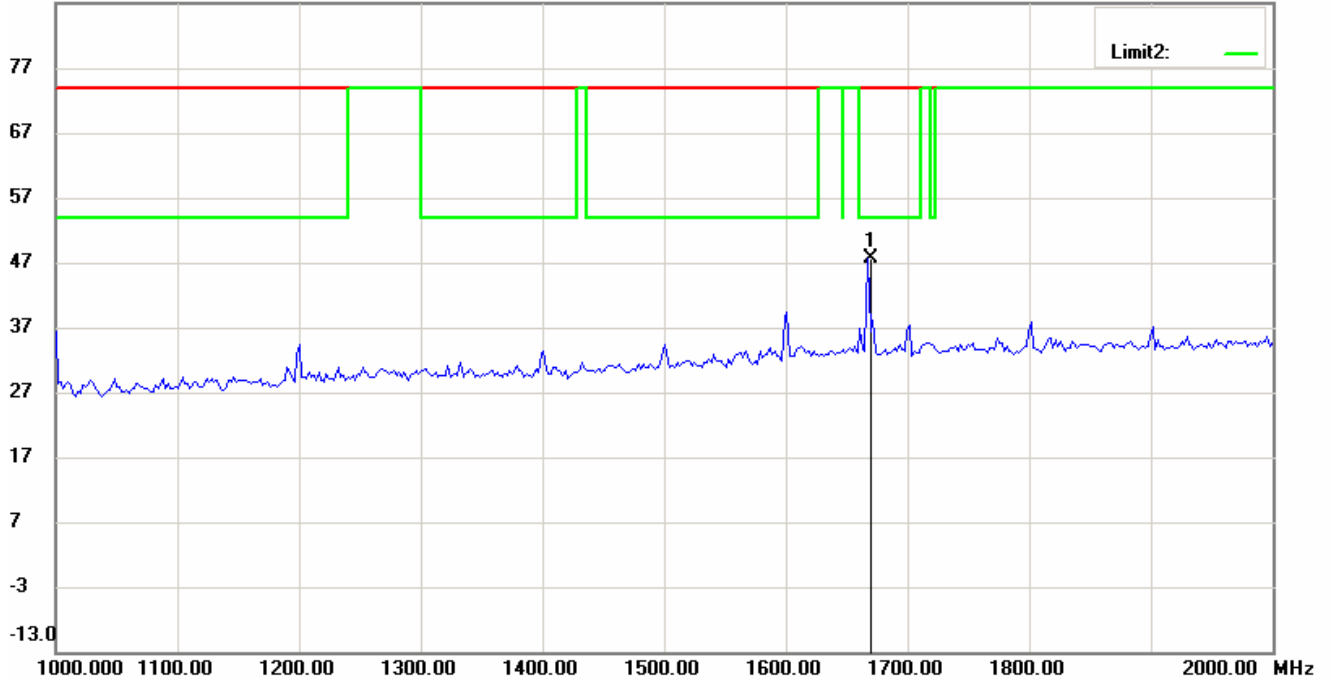
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

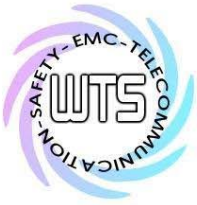
87.0 dBuV/m



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

Note:

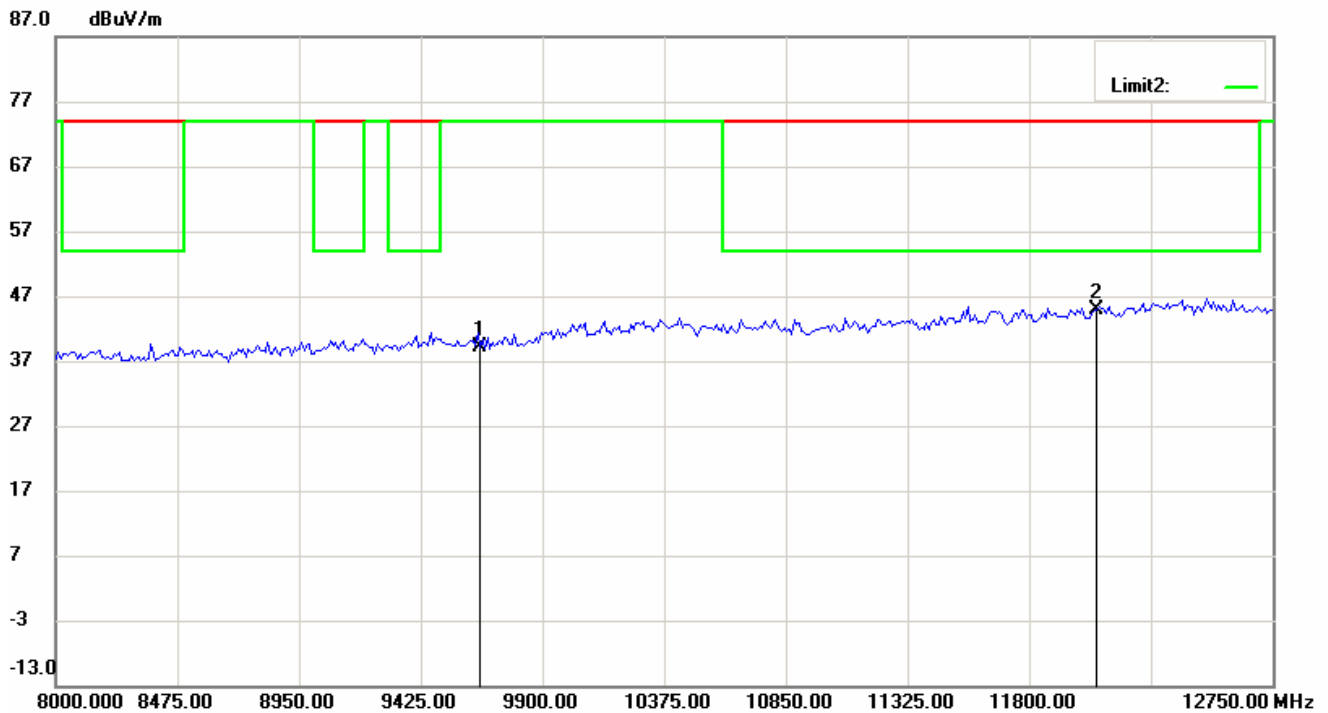
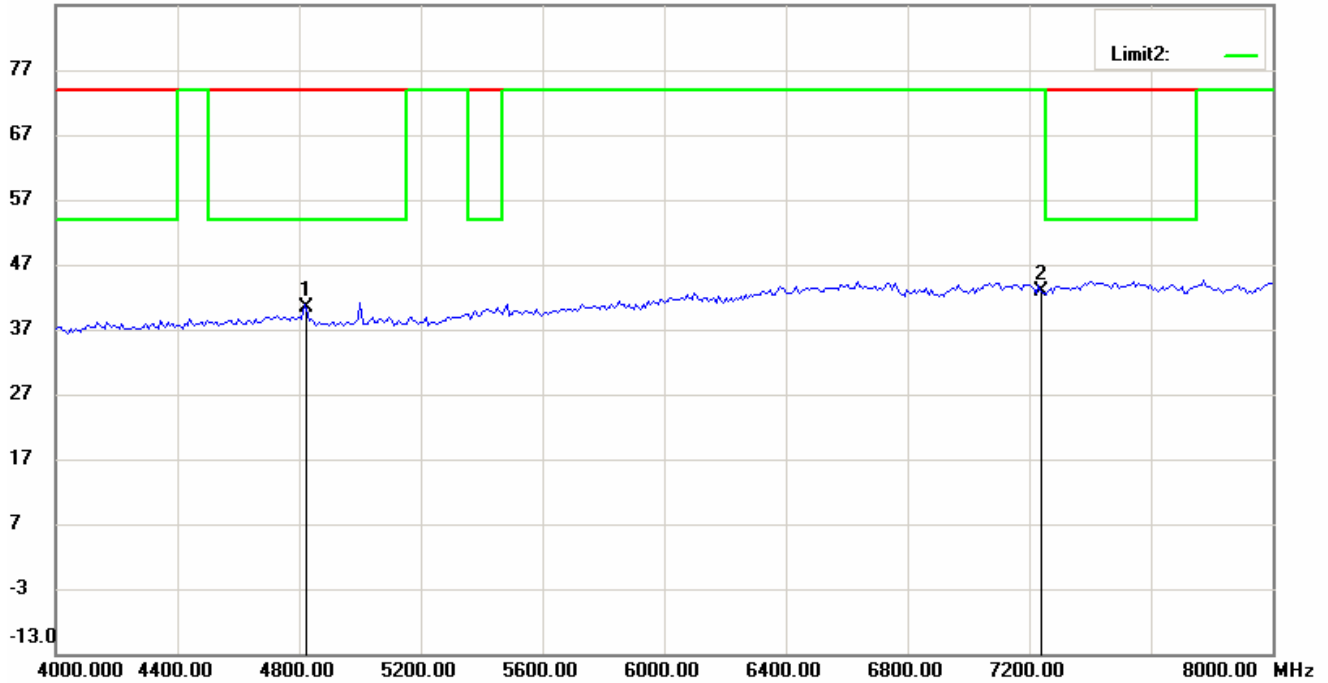
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

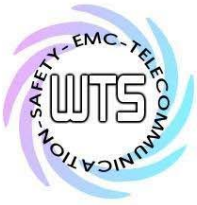
87.0 dBuV/m



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

Note:

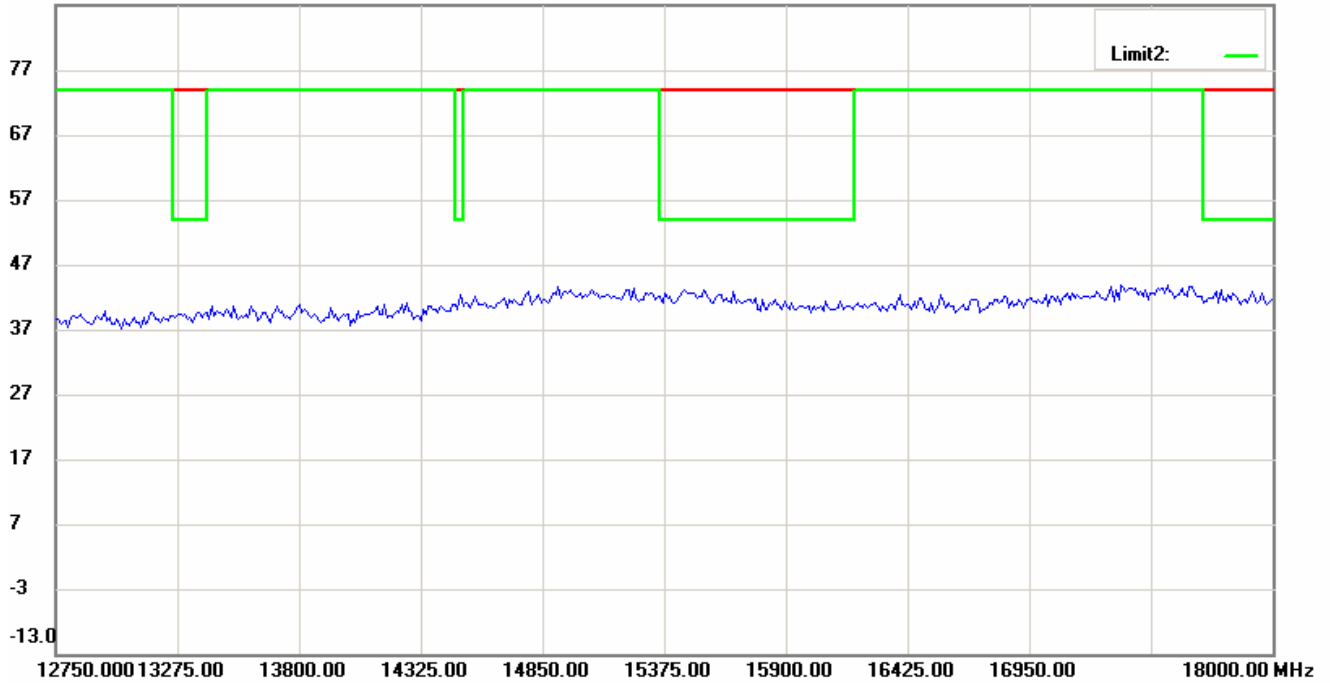
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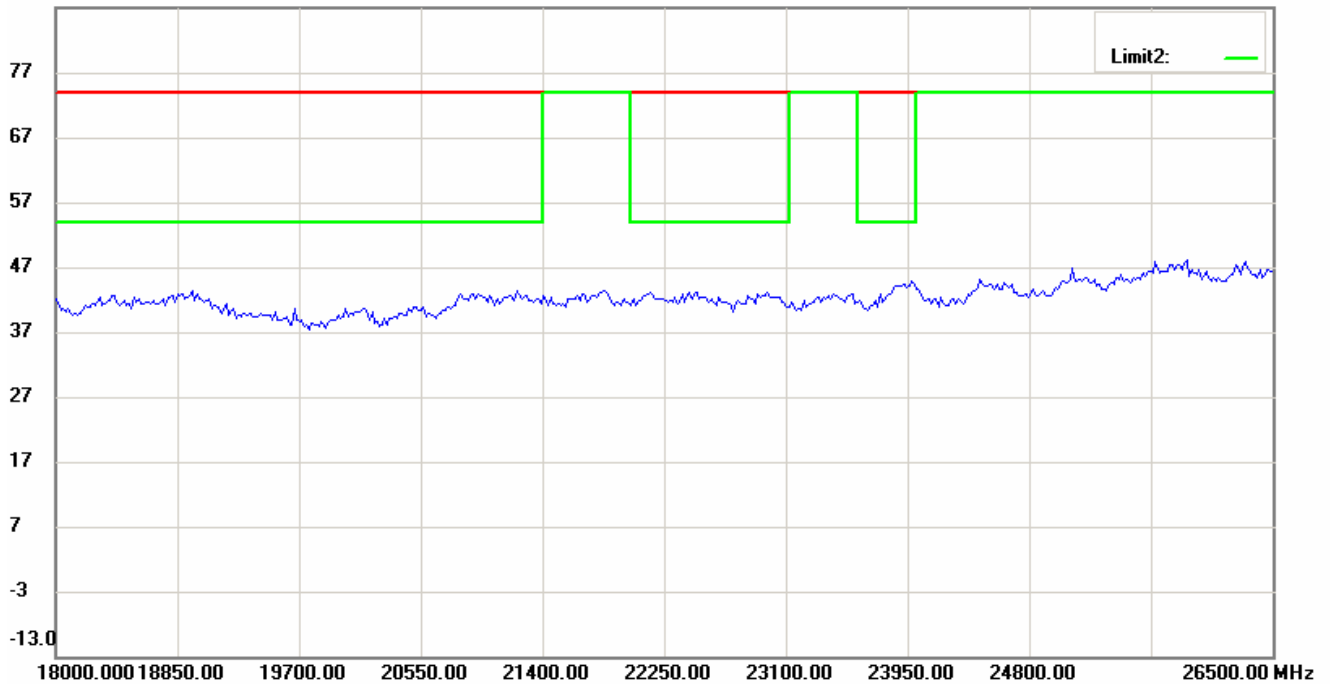
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FCC ID: W5Y-DSSV3

87.0 dBuV/m



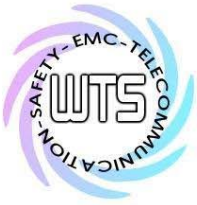
87.0 dBuV/m



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

Note:

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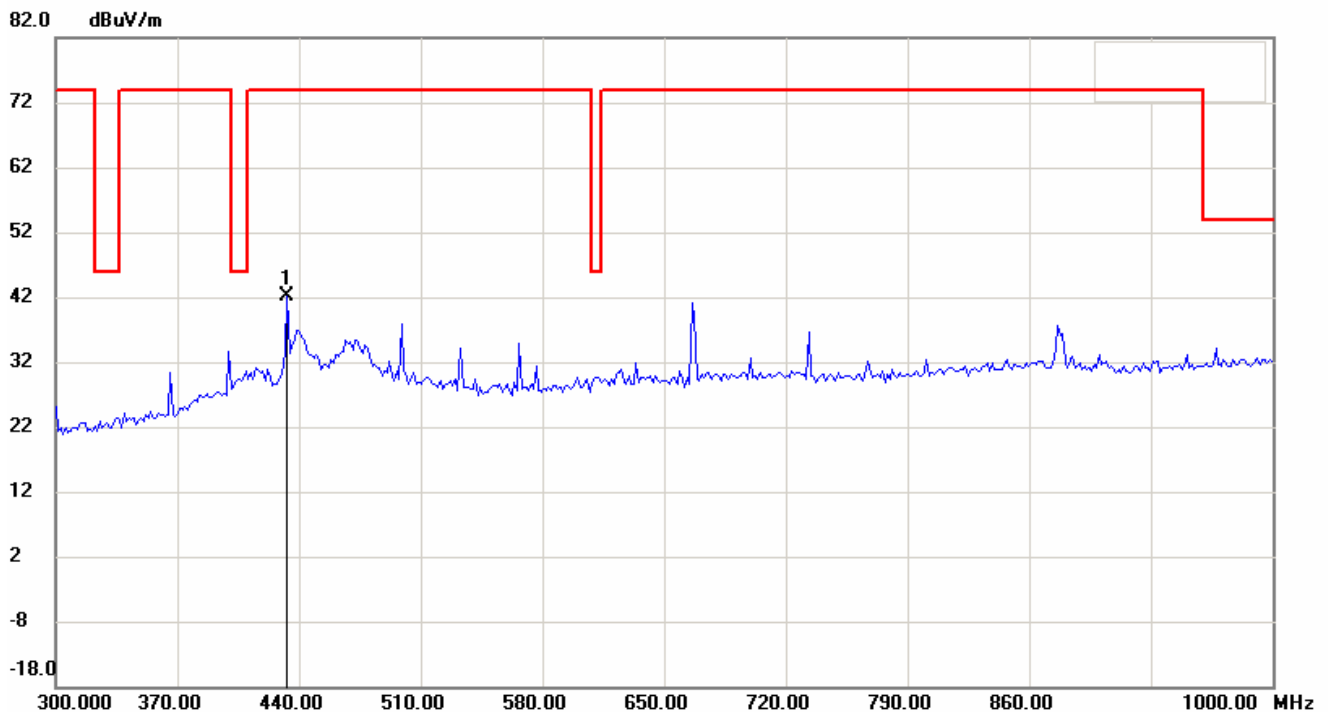
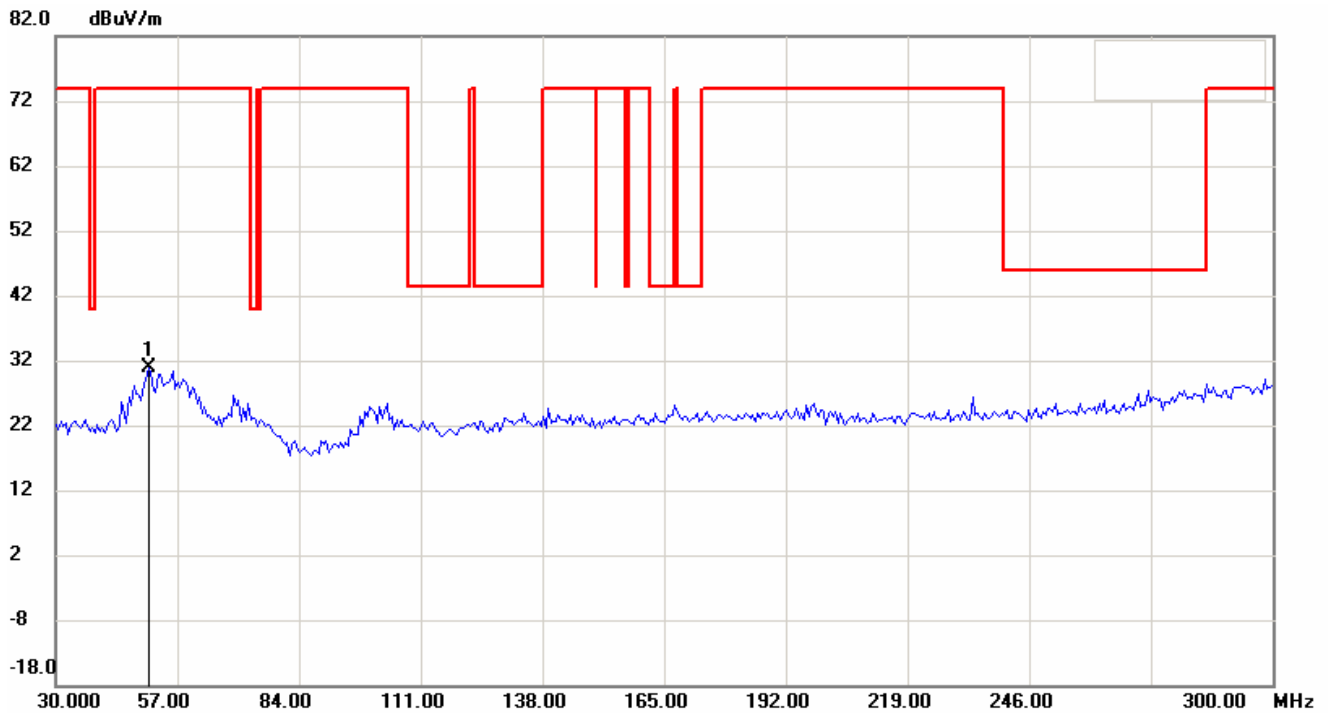


Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

Middle channel

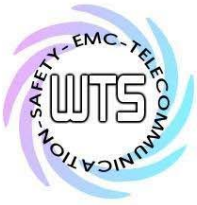
Antenna Polarization H



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

Note:

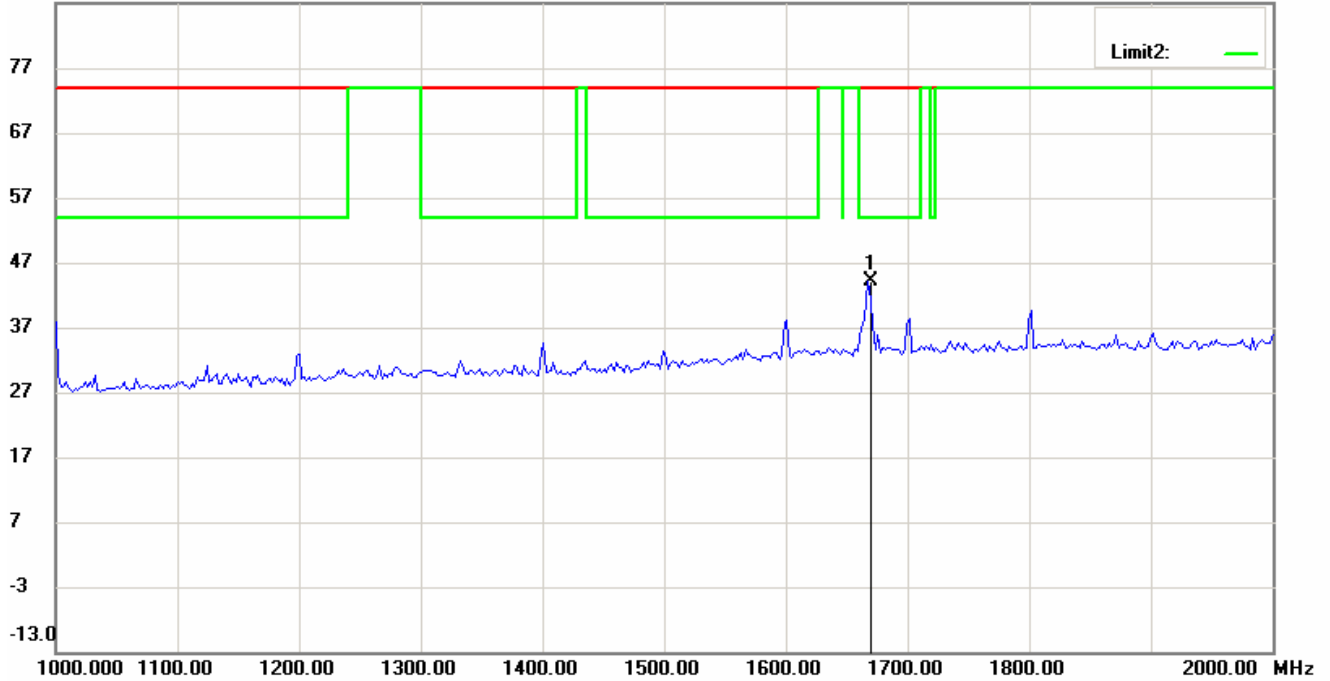
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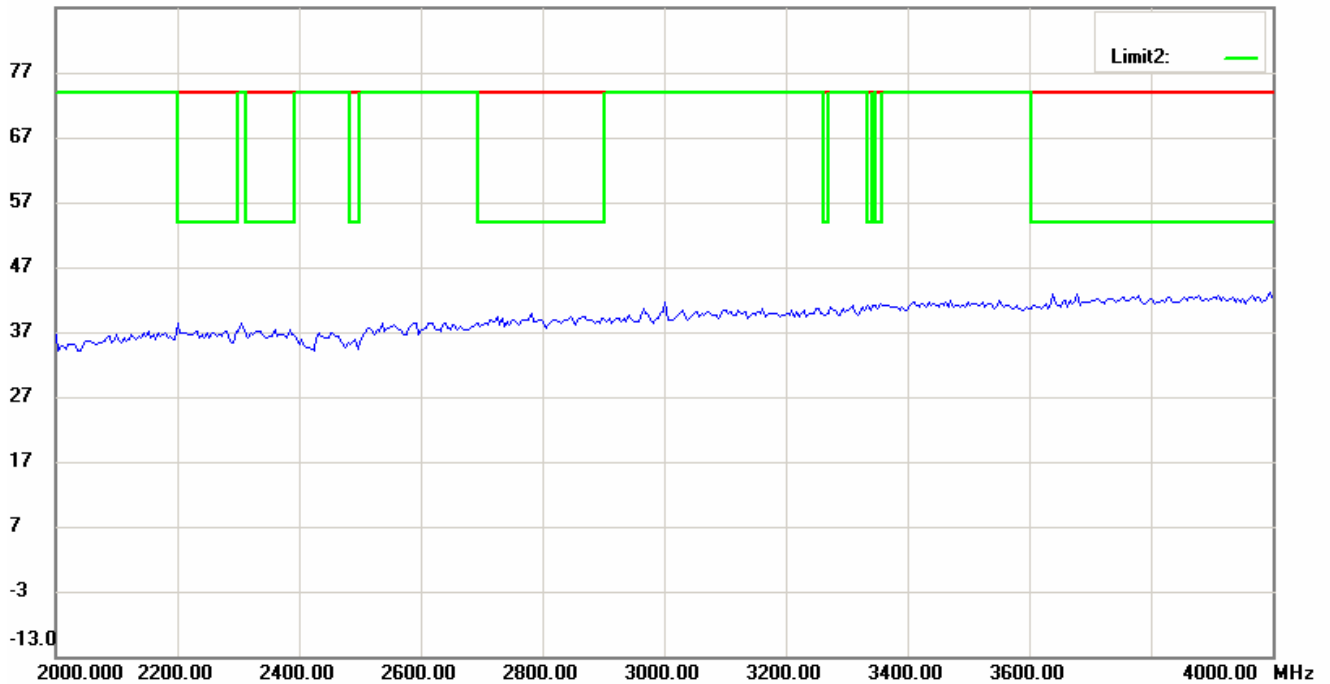
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



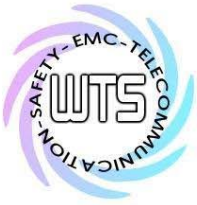
87.0 dBuV/m



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

Note:

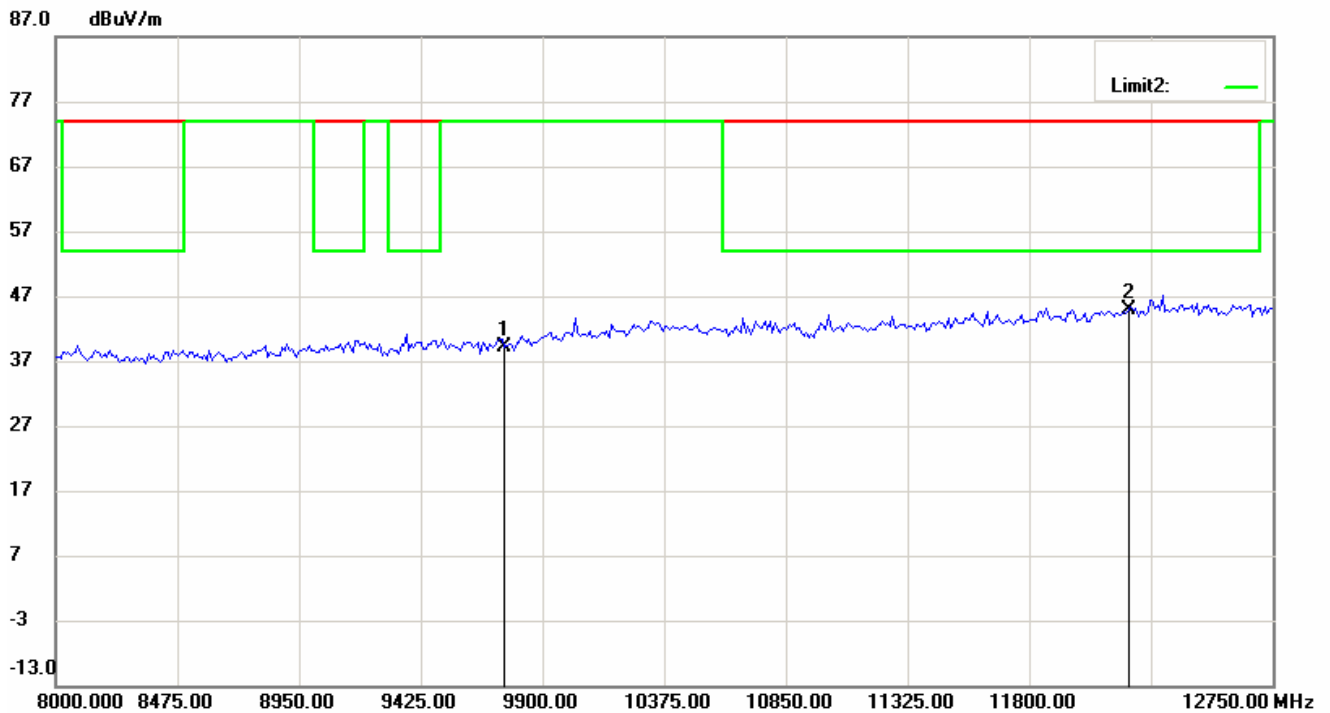
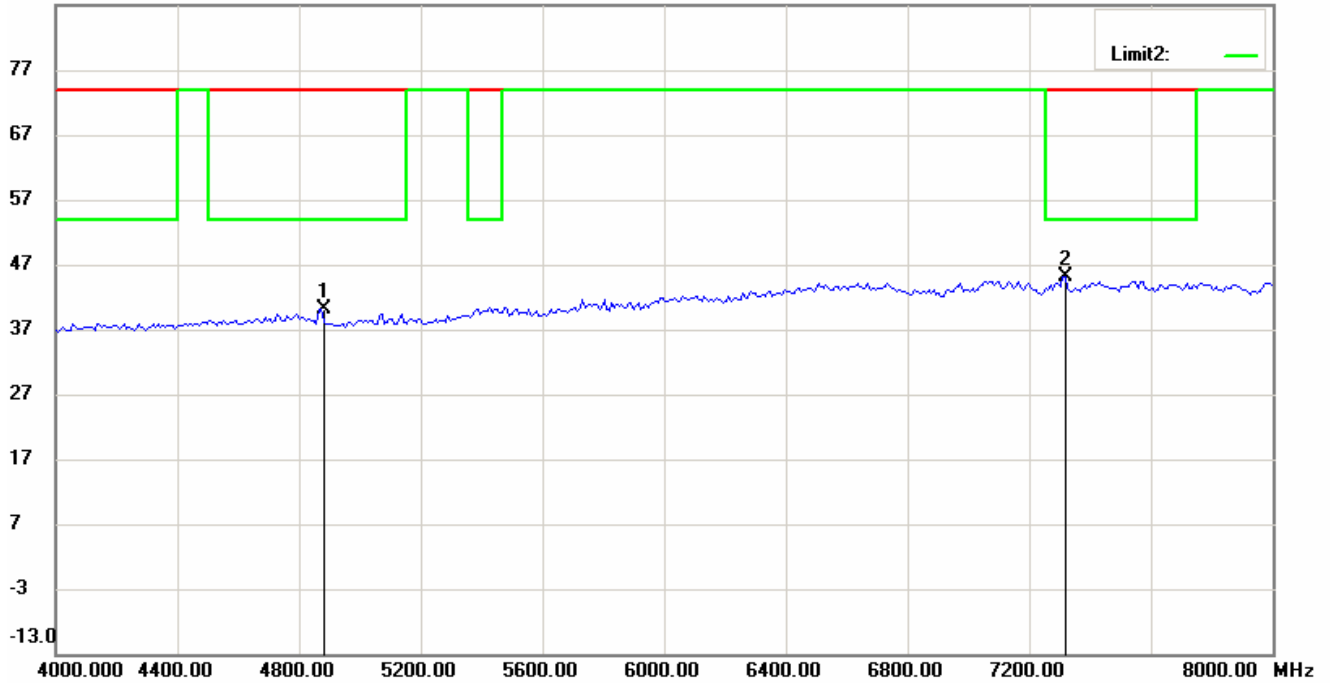
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

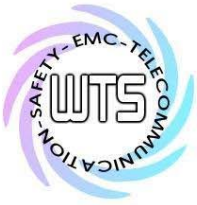
87.0 dBuV/m



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

Note:

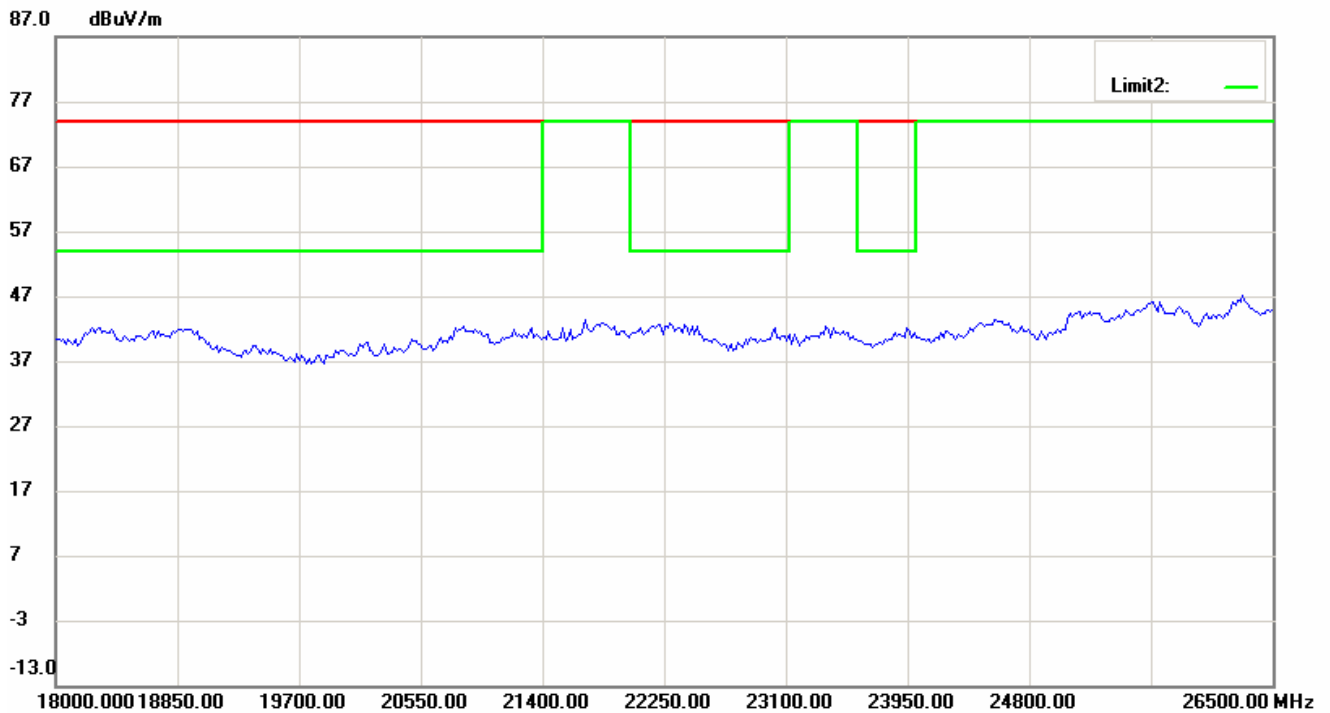
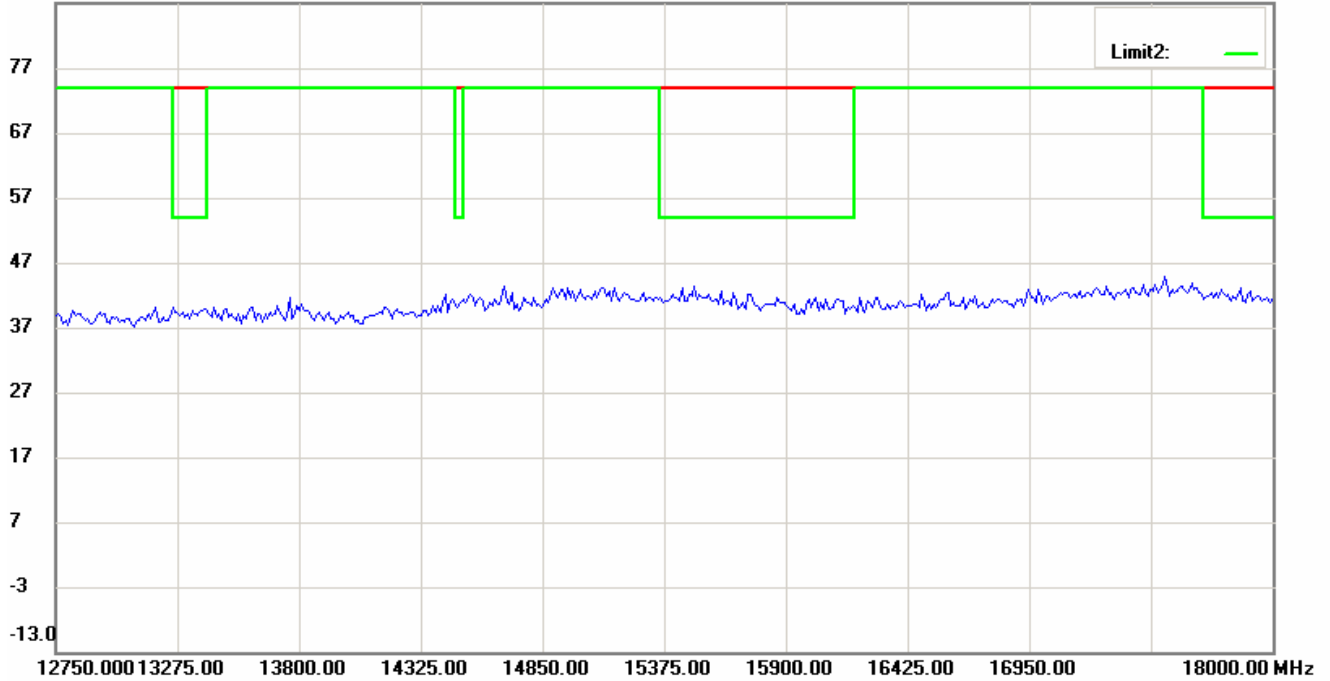
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

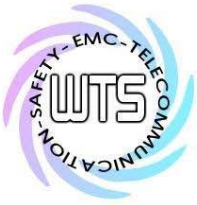
87.0 dBuV/m



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

Note:

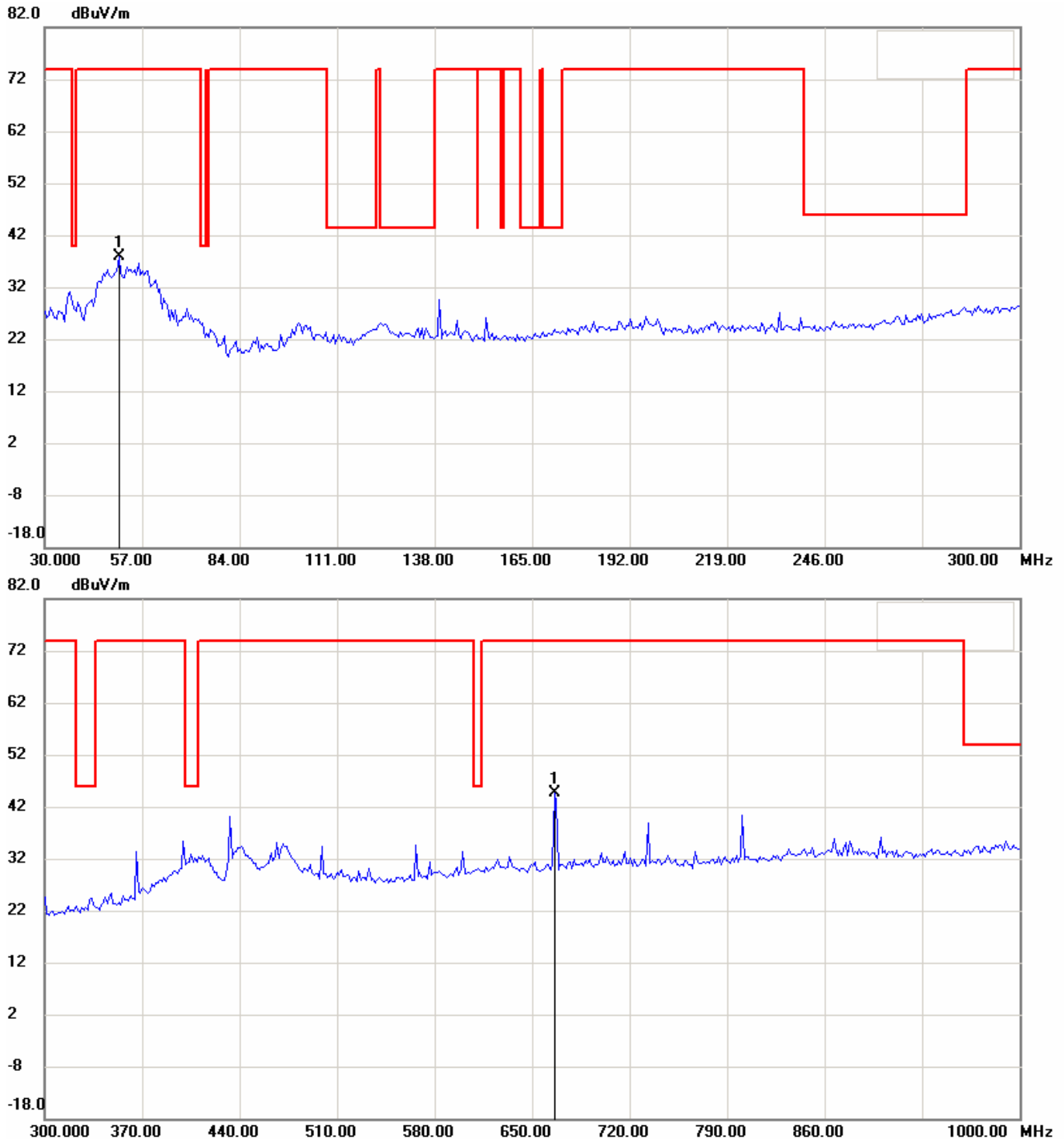
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FCC ID: W5Y-DSSV3

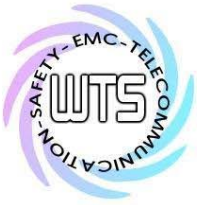
Antenna Polarization V



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

Note:

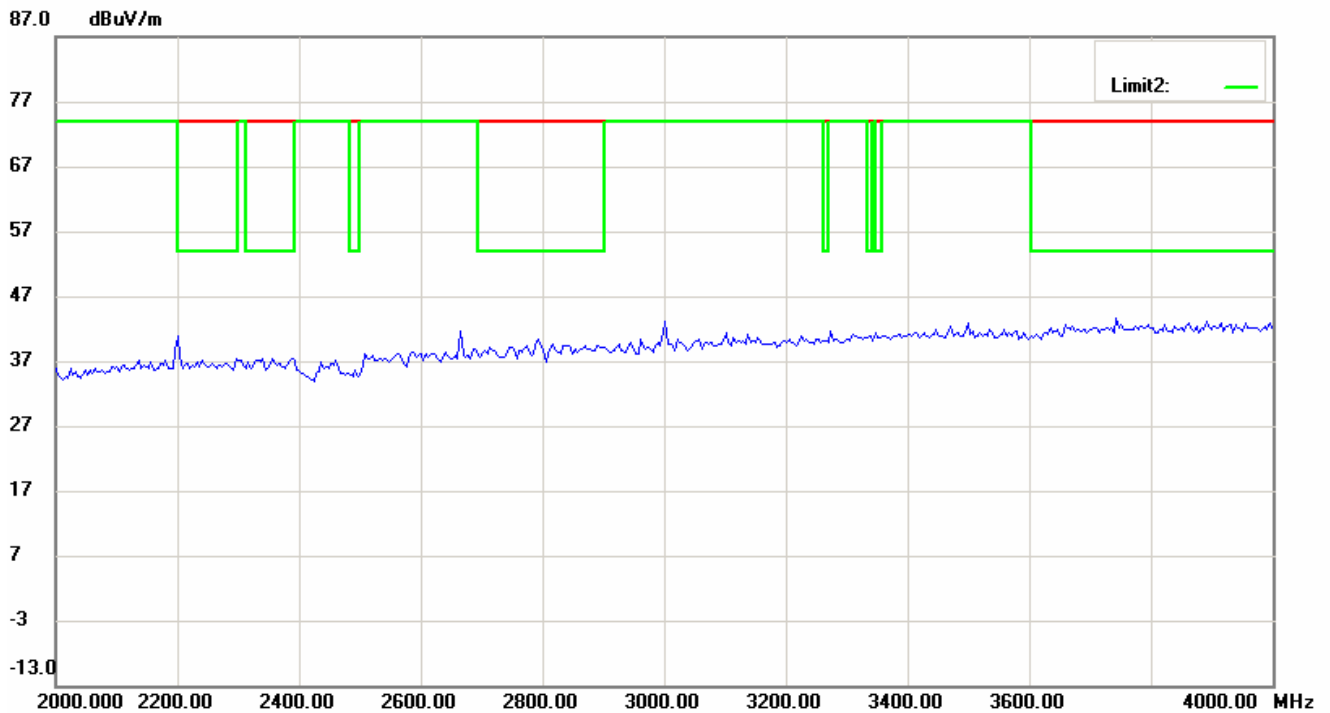
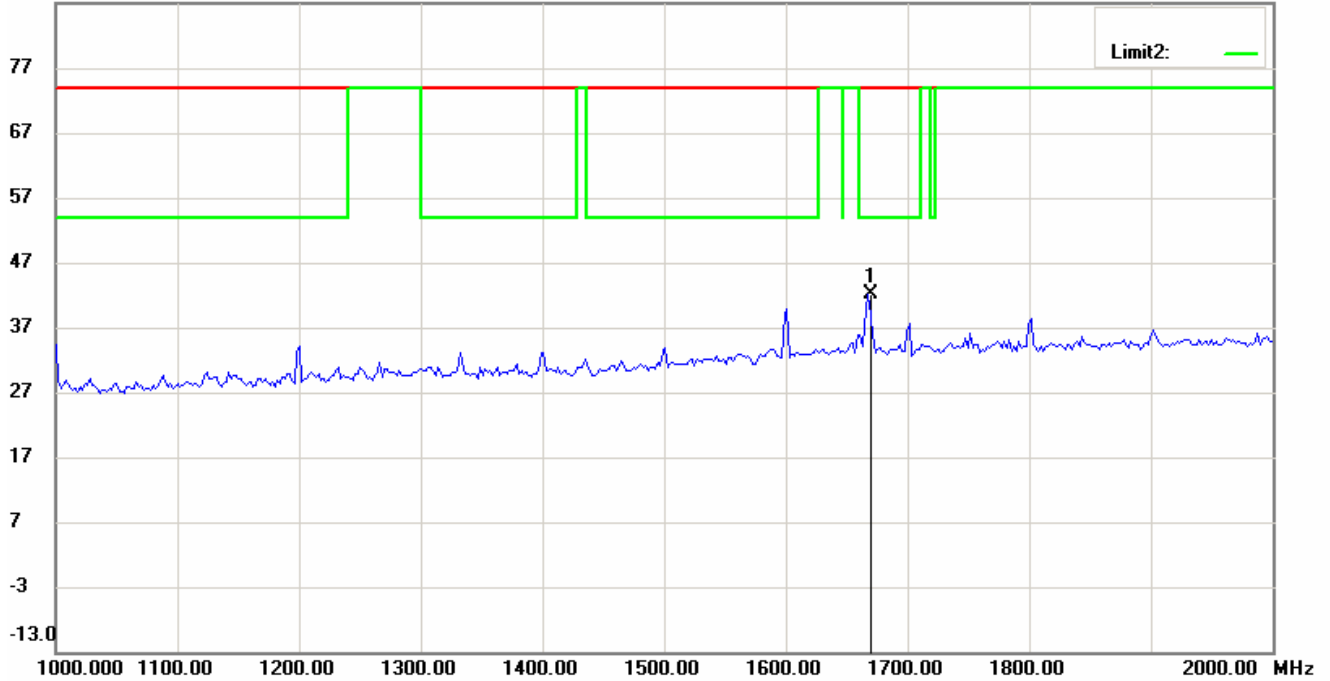
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

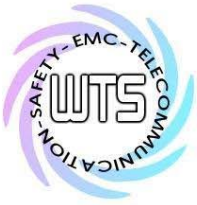
87.0 dBuV/m



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

Note:

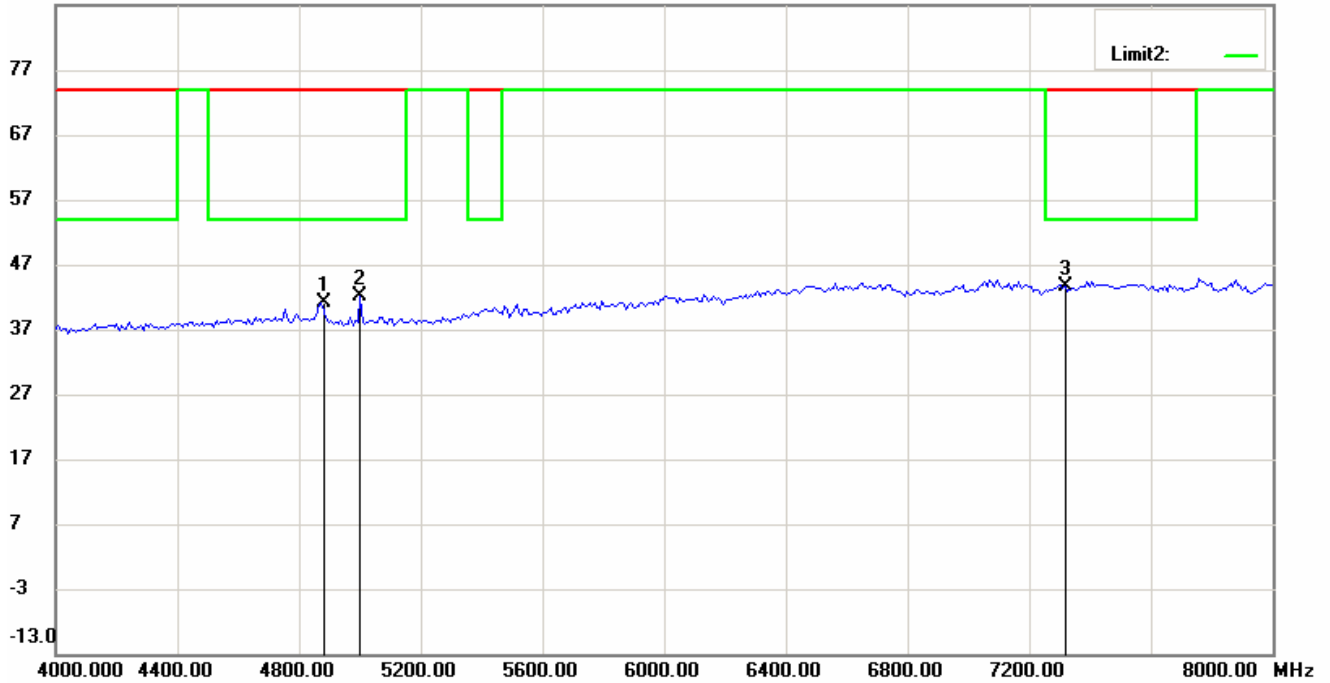
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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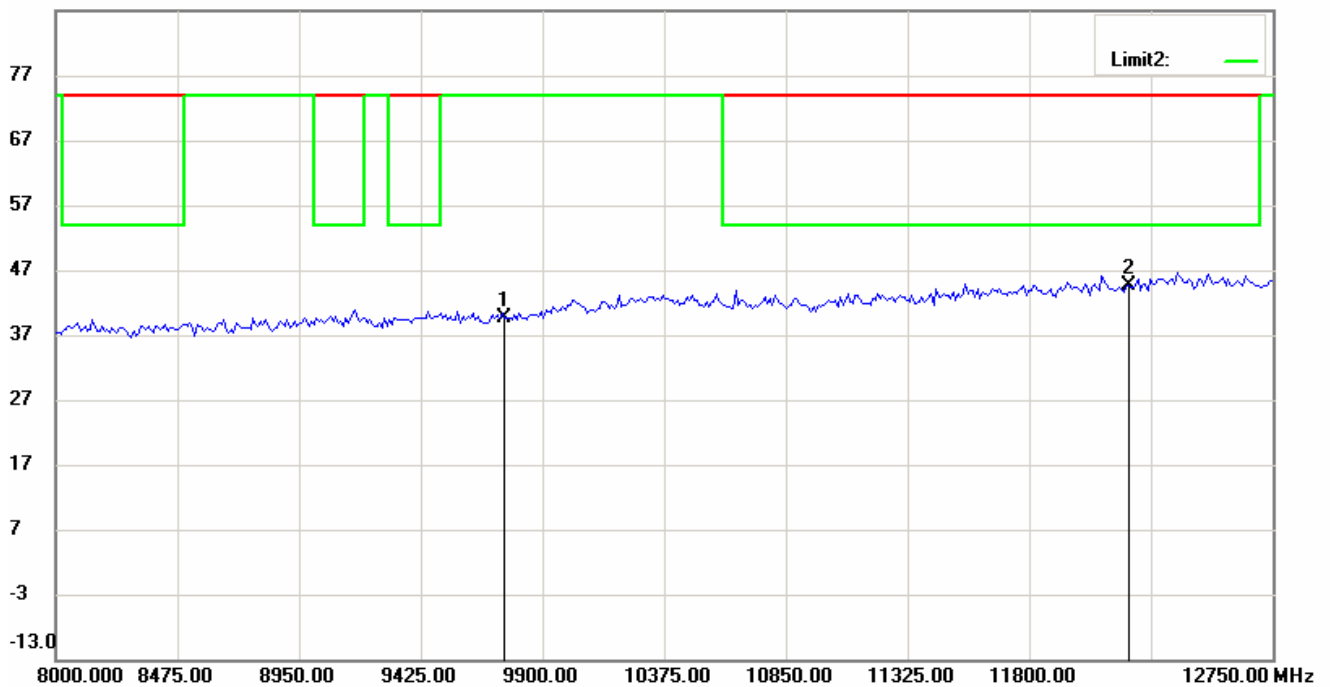
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



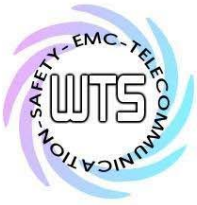
87.0 dBuV/m



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

Note:

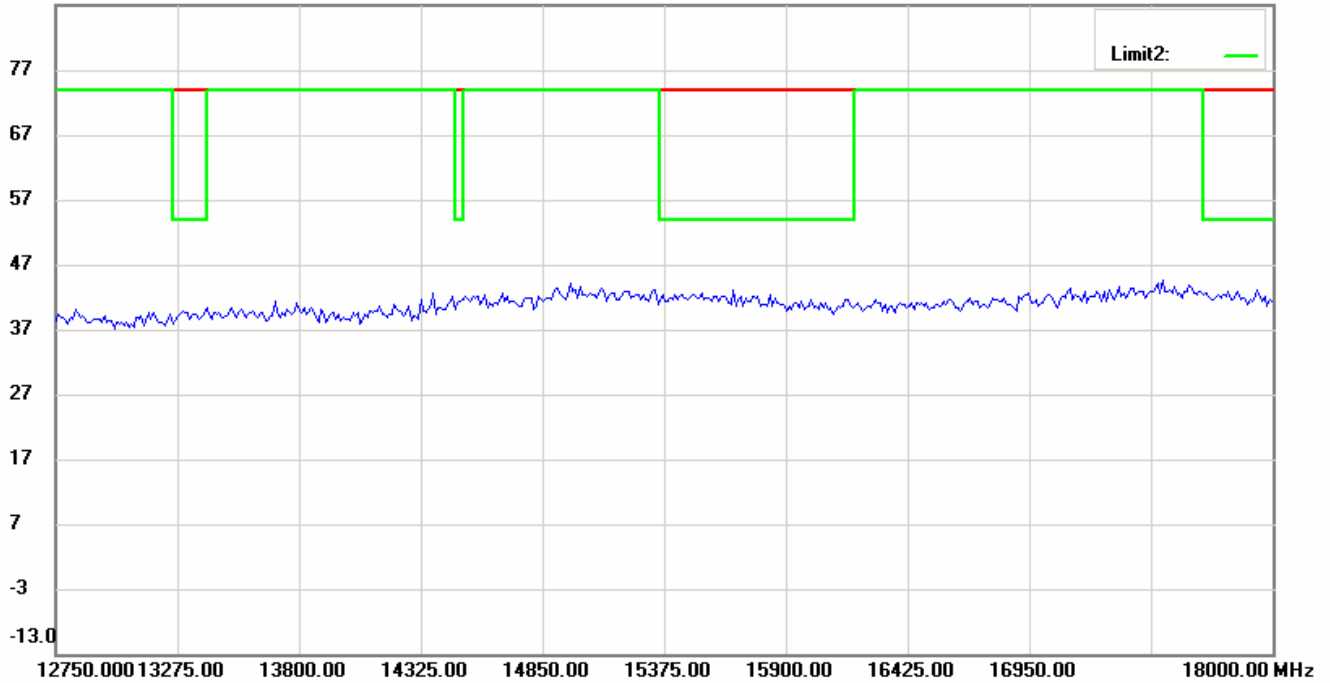
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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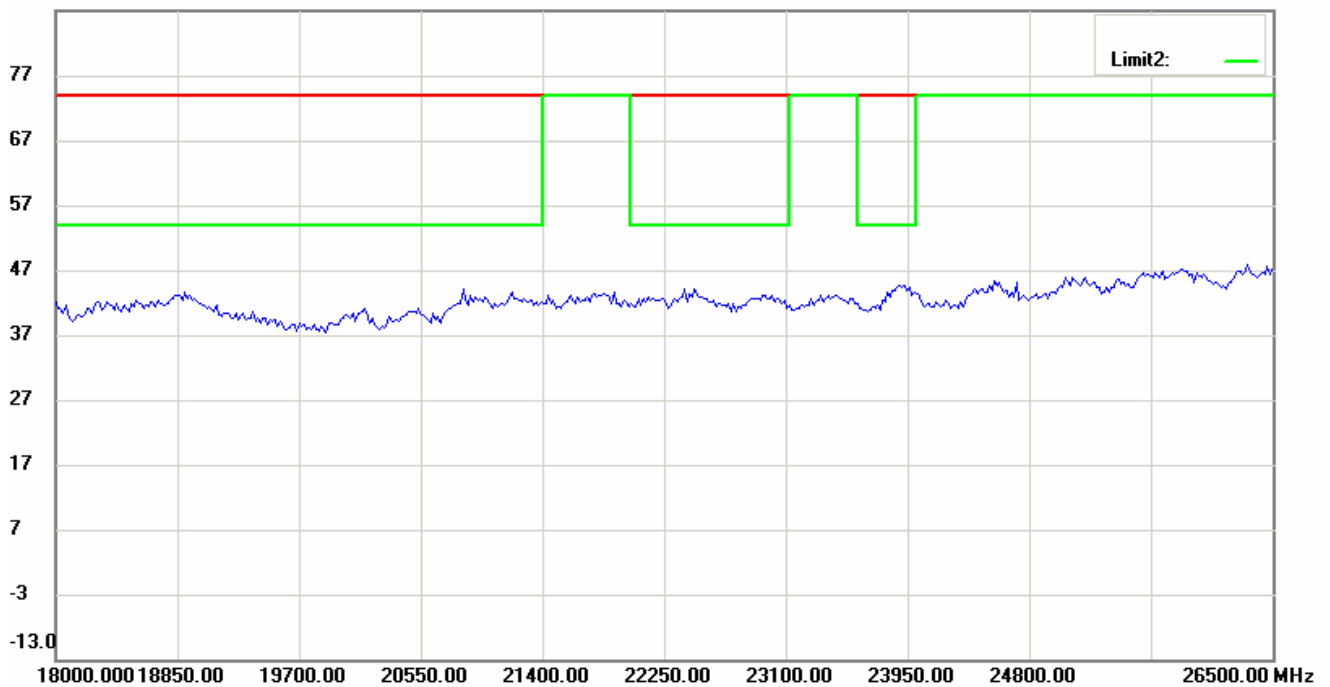
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



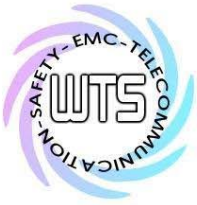
87.0 dBuV/m



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

Note:

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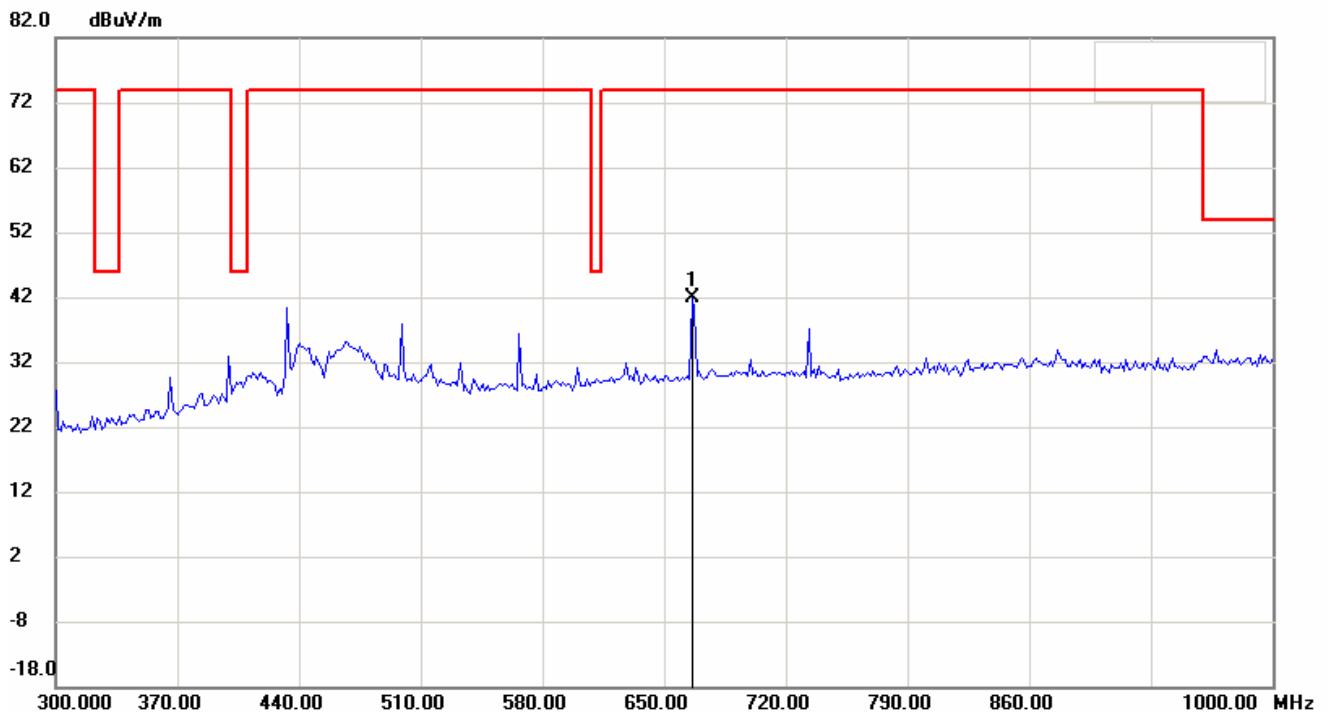
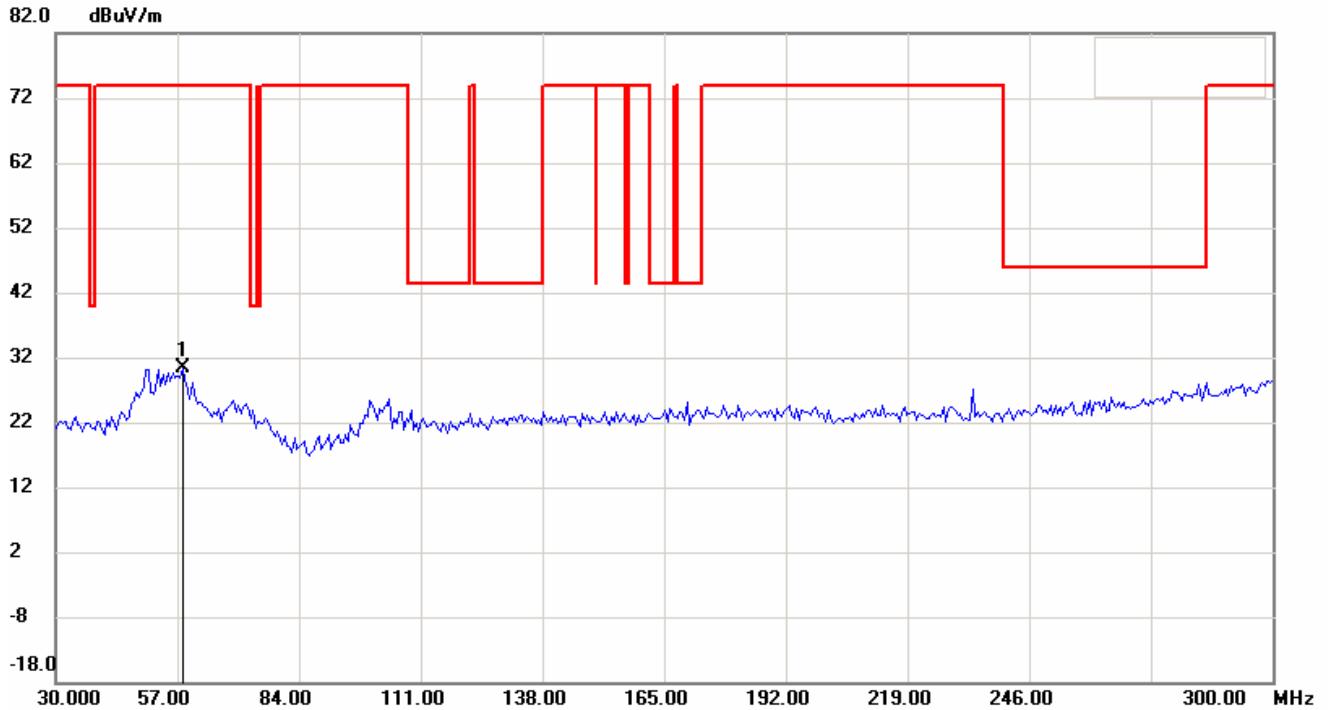


Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

High channel

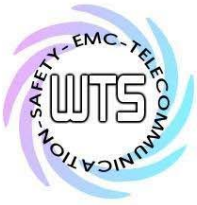
Antenna Polarization H



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

Note:

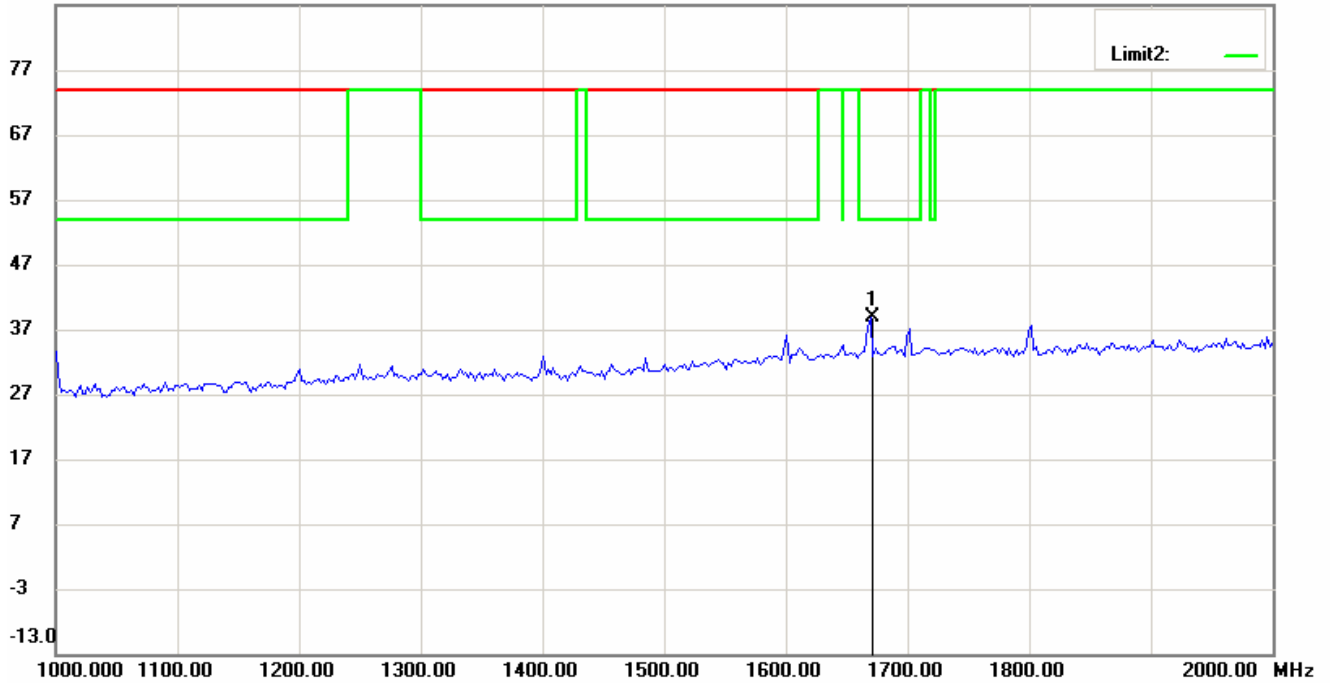
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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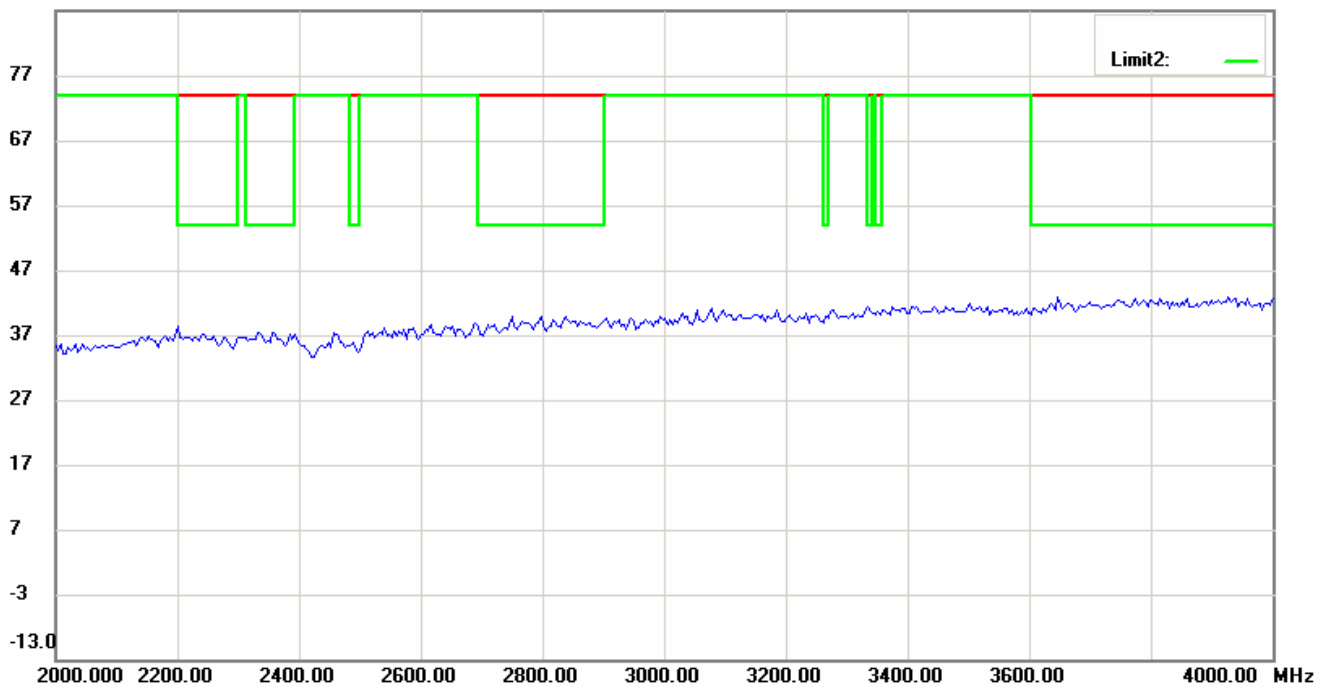
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



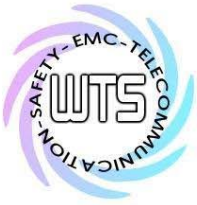
87.0 dBuV/m



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

Note:

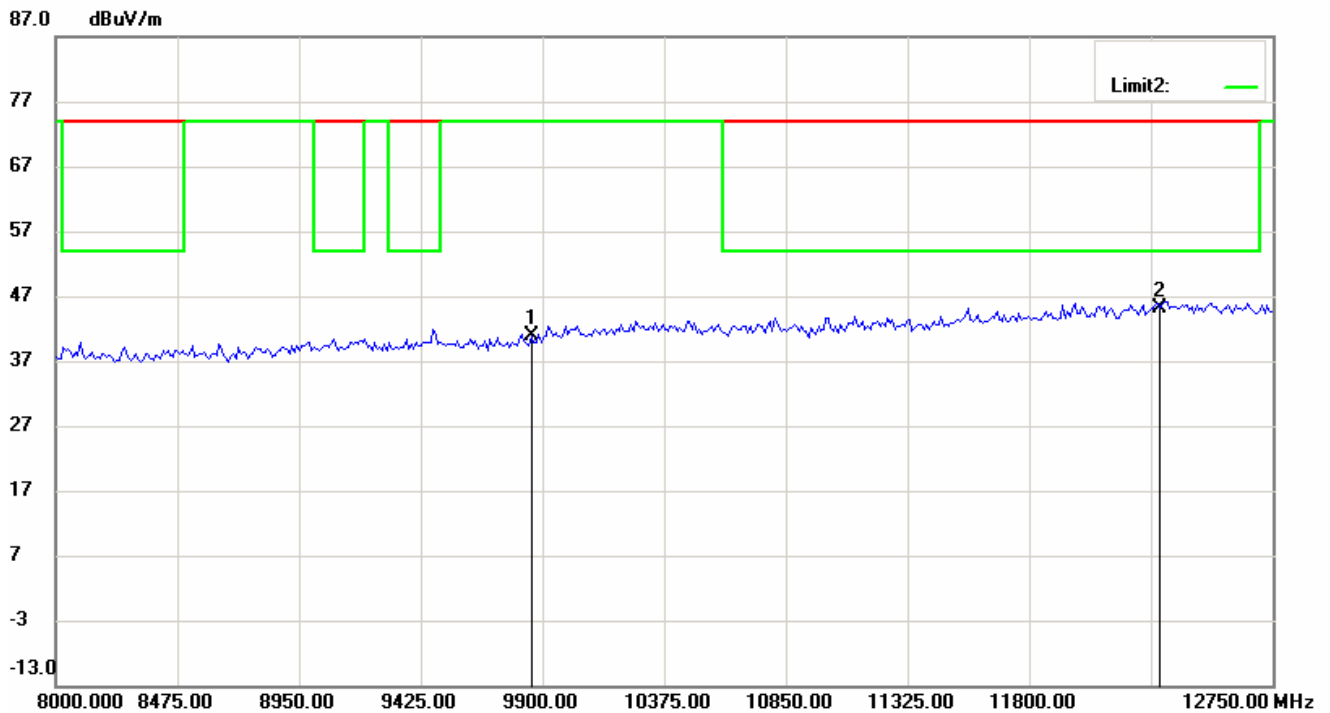
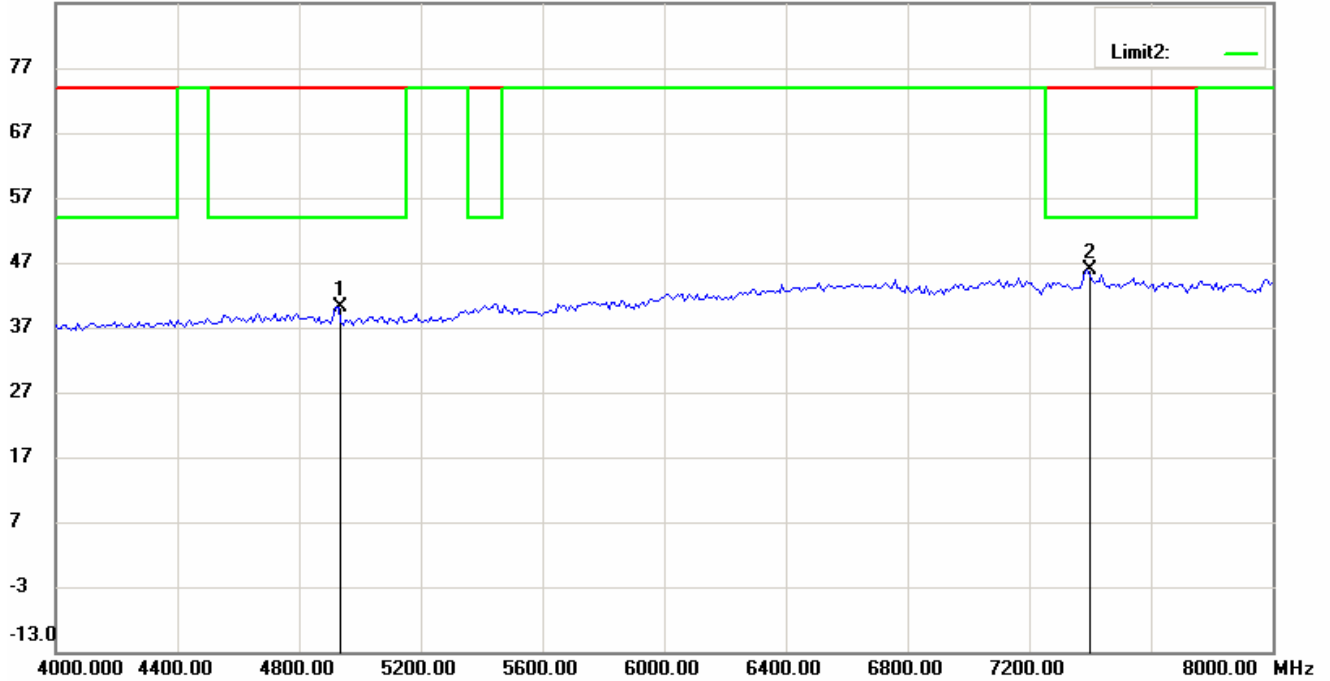
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

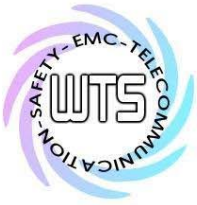
87.0 dBuV/m



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

Note:

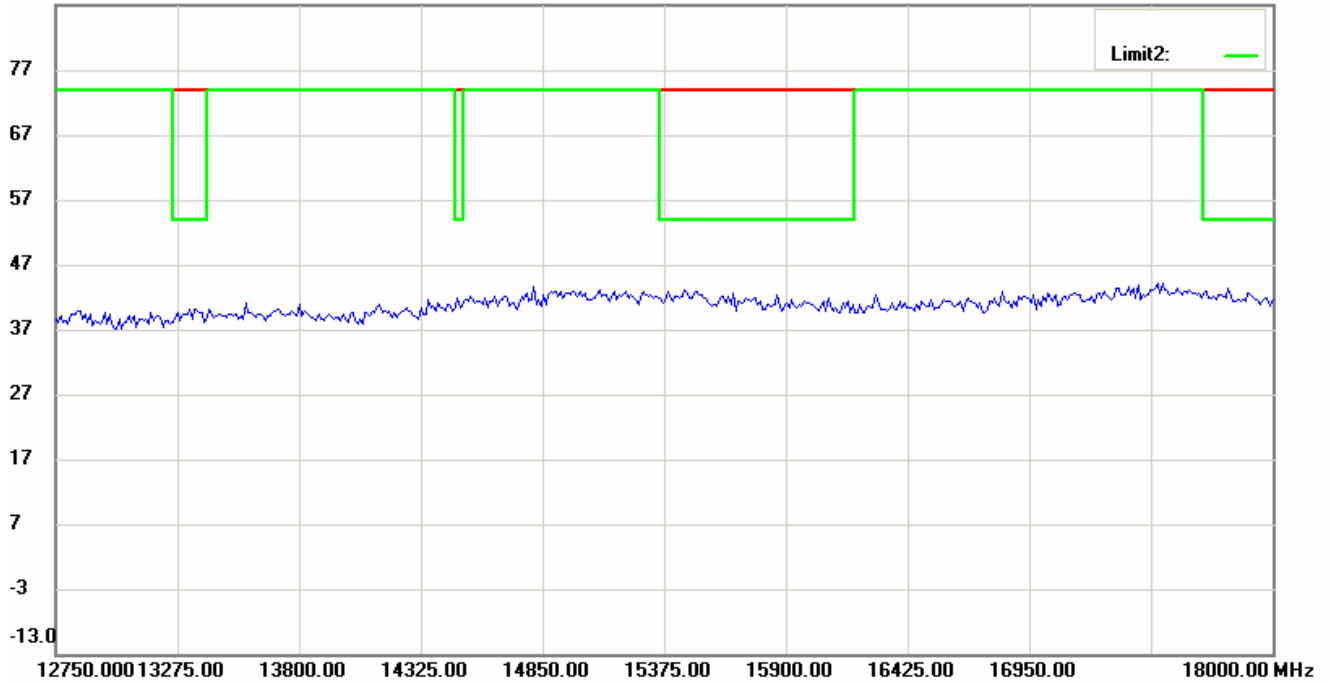
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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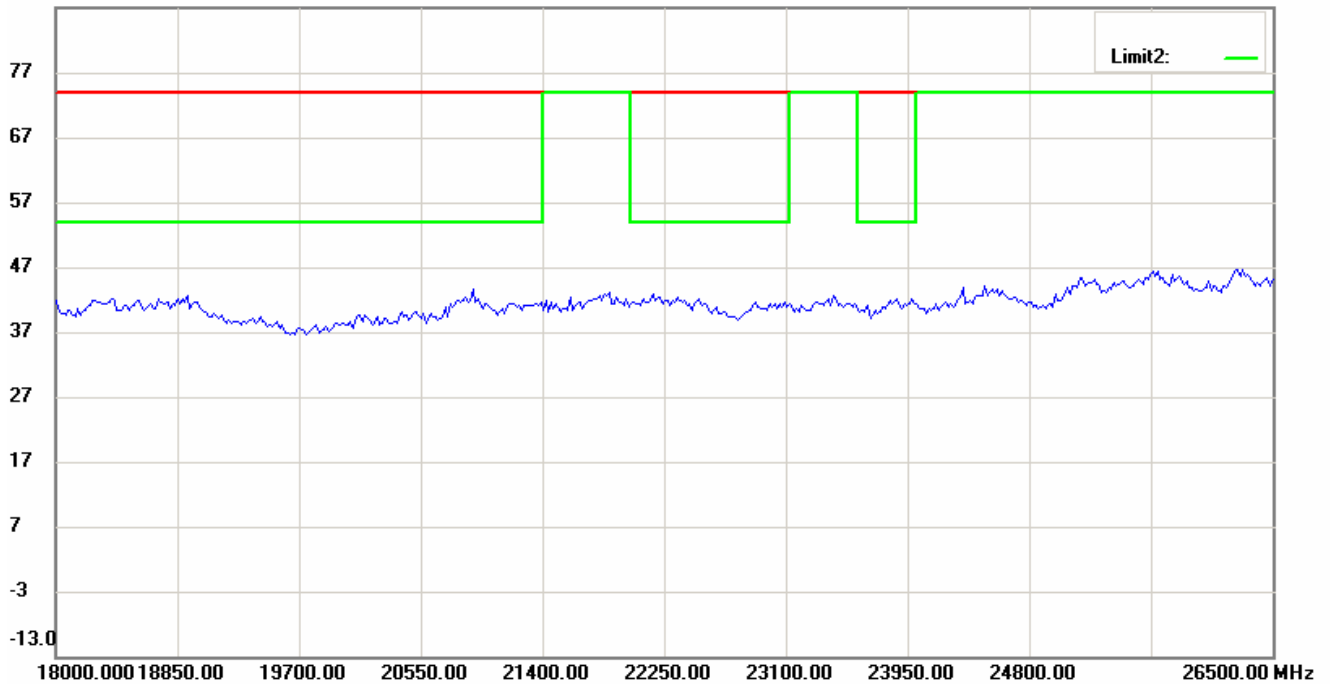
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



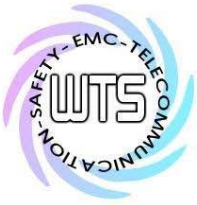
87.0 dBuV/m



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

Note:

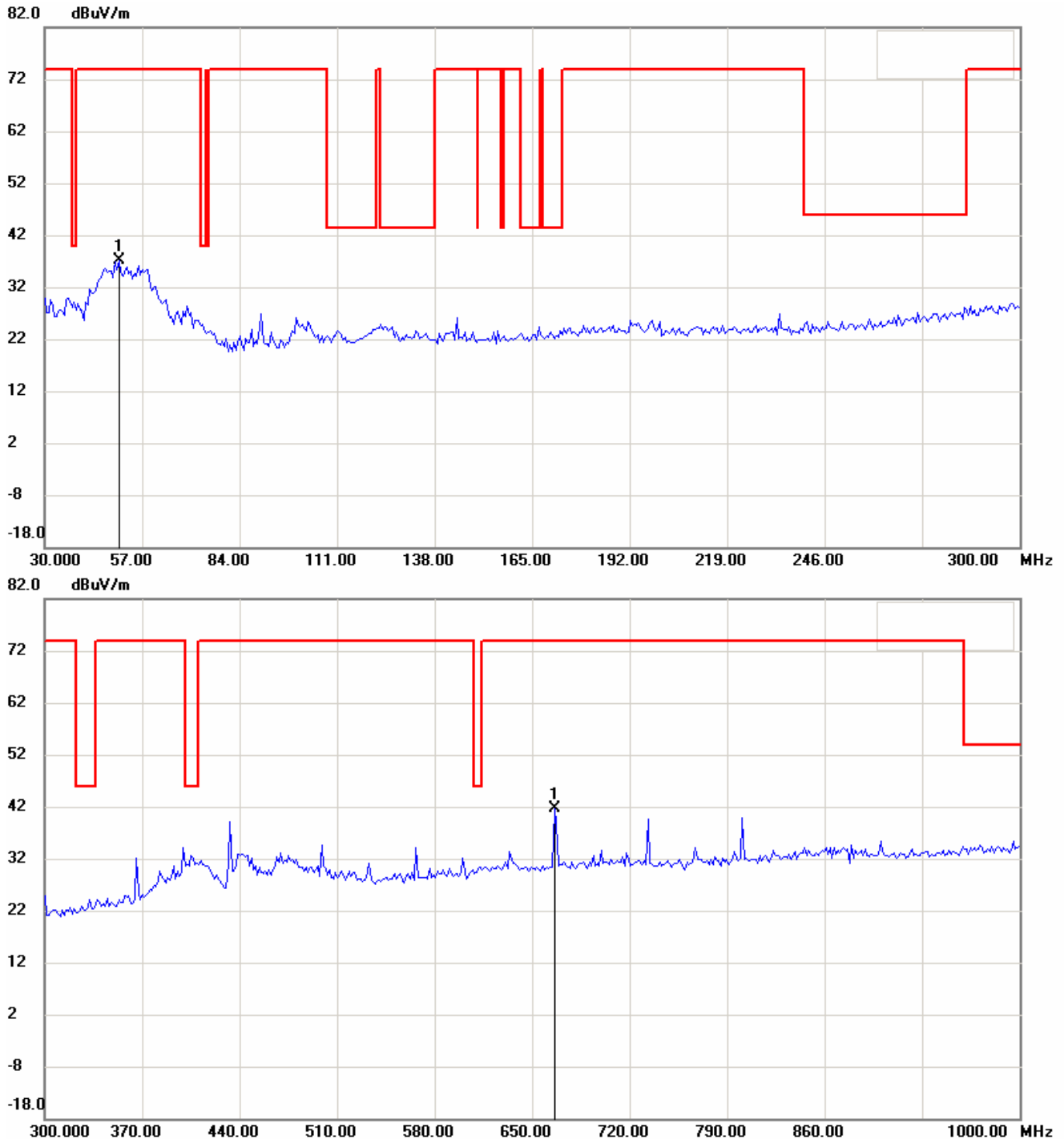
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

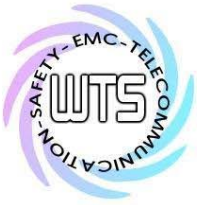
Antenna Polarization V



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

Note:

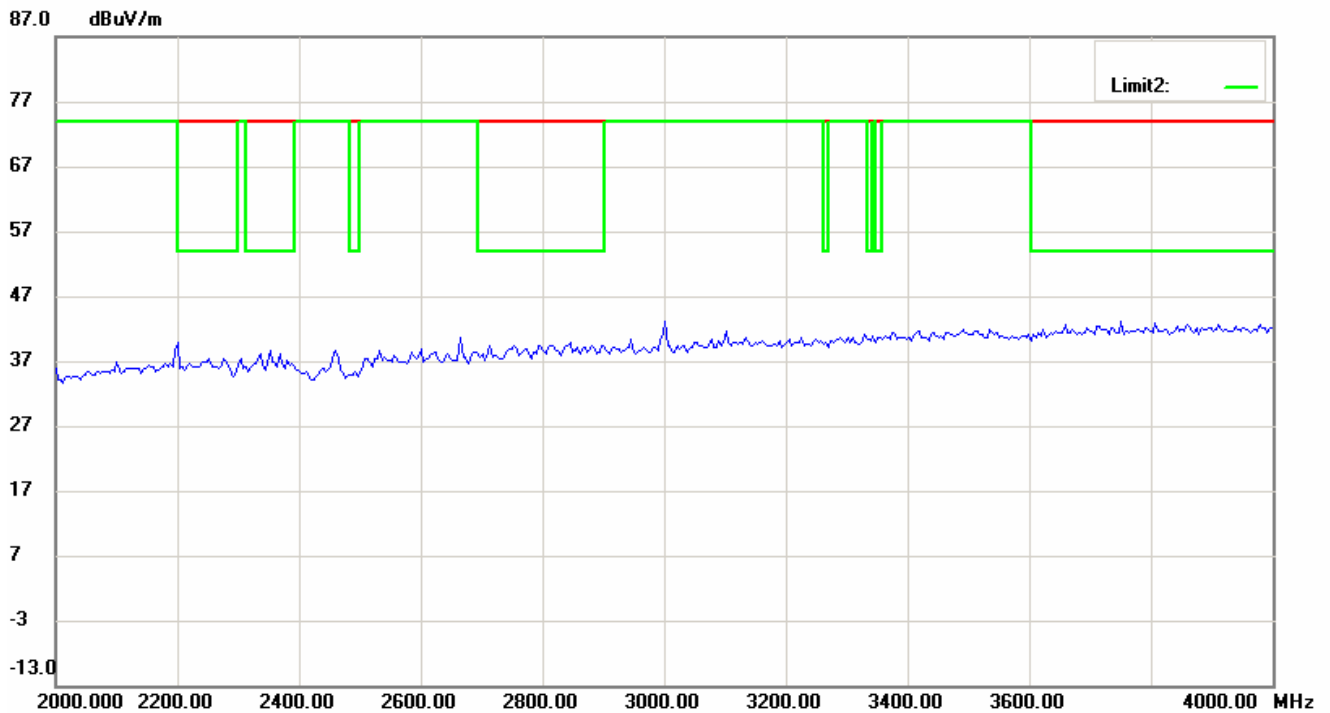
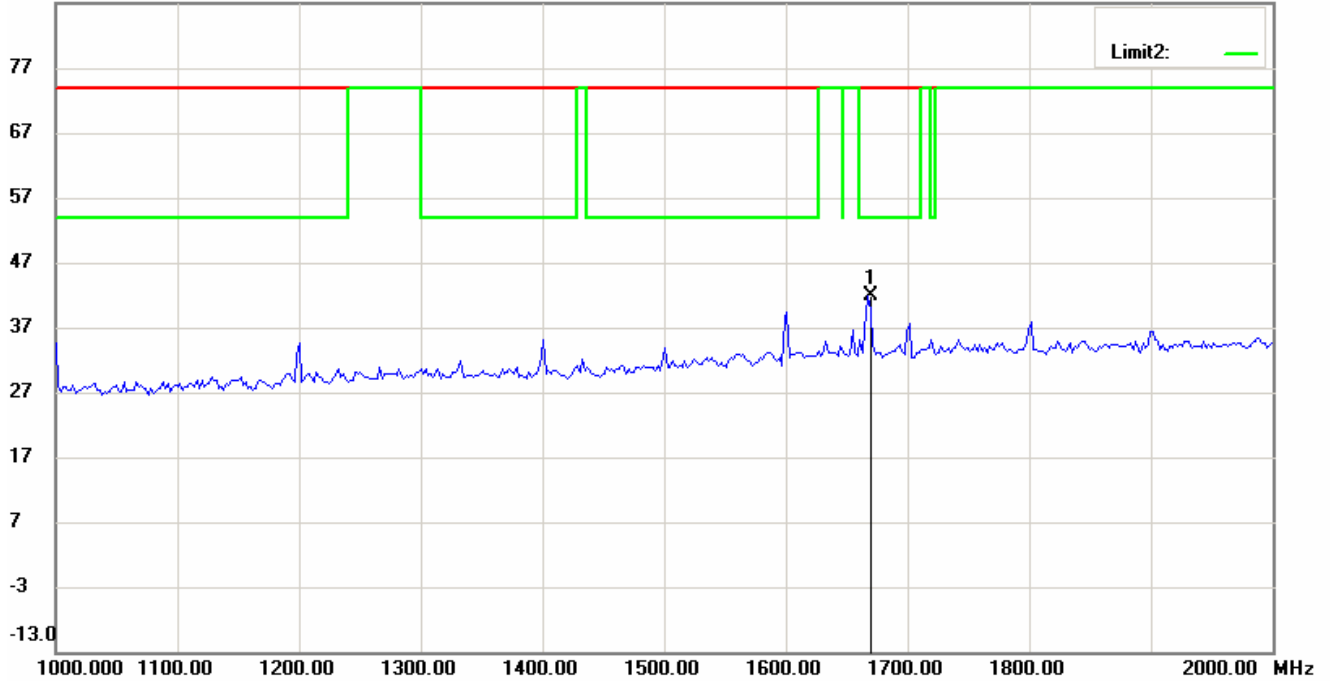
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

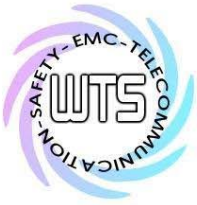
87.0 dBuV/m



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

Note:

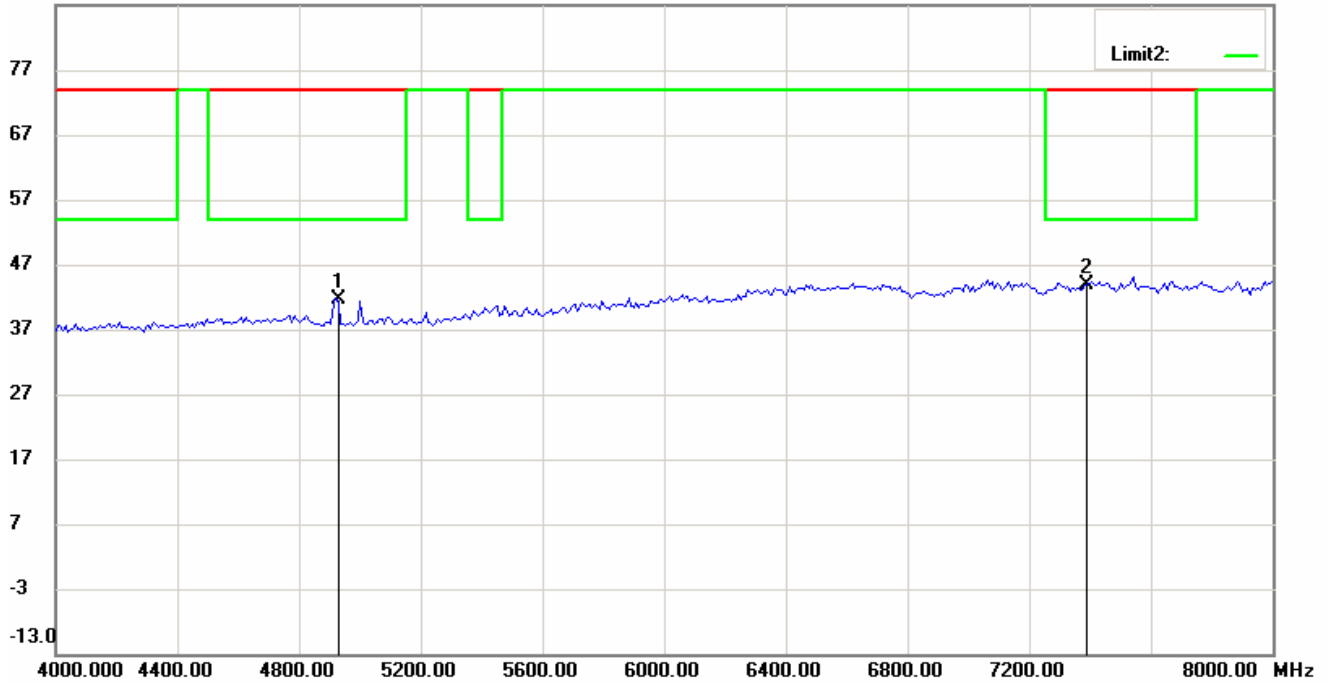
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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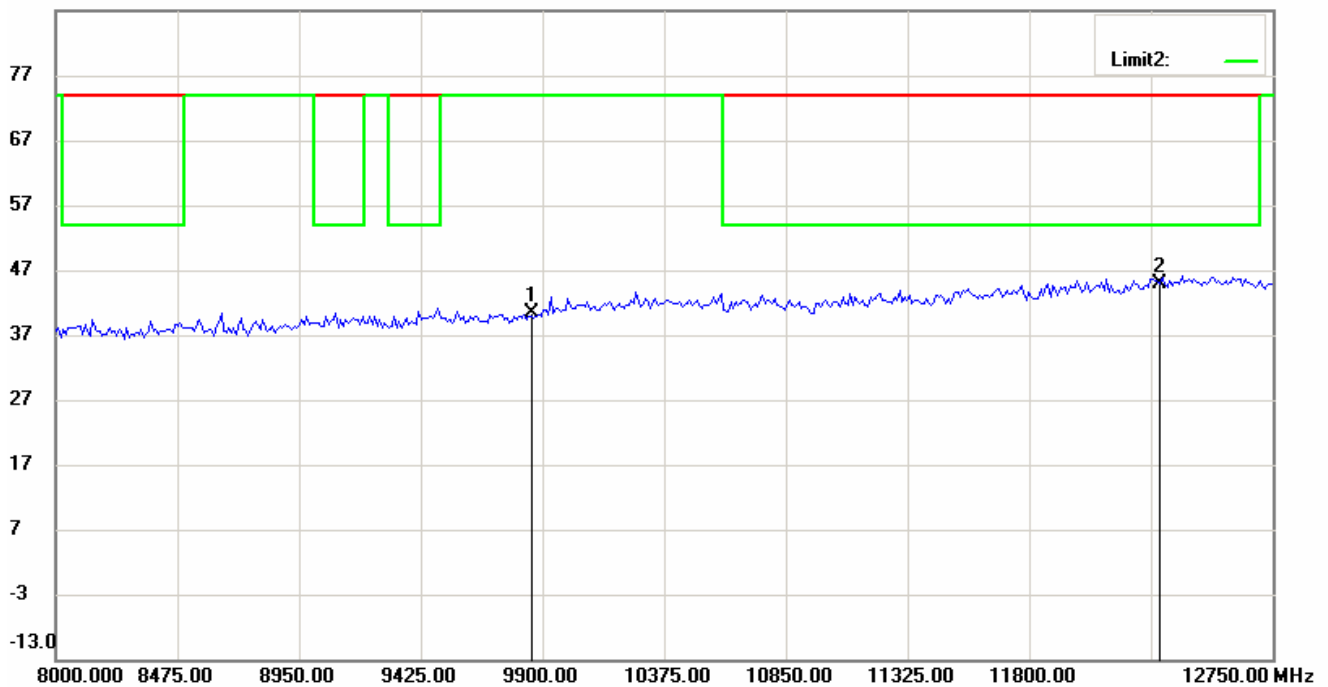
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



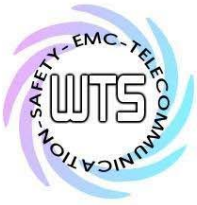
87.0 dBuV/m



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

Note:

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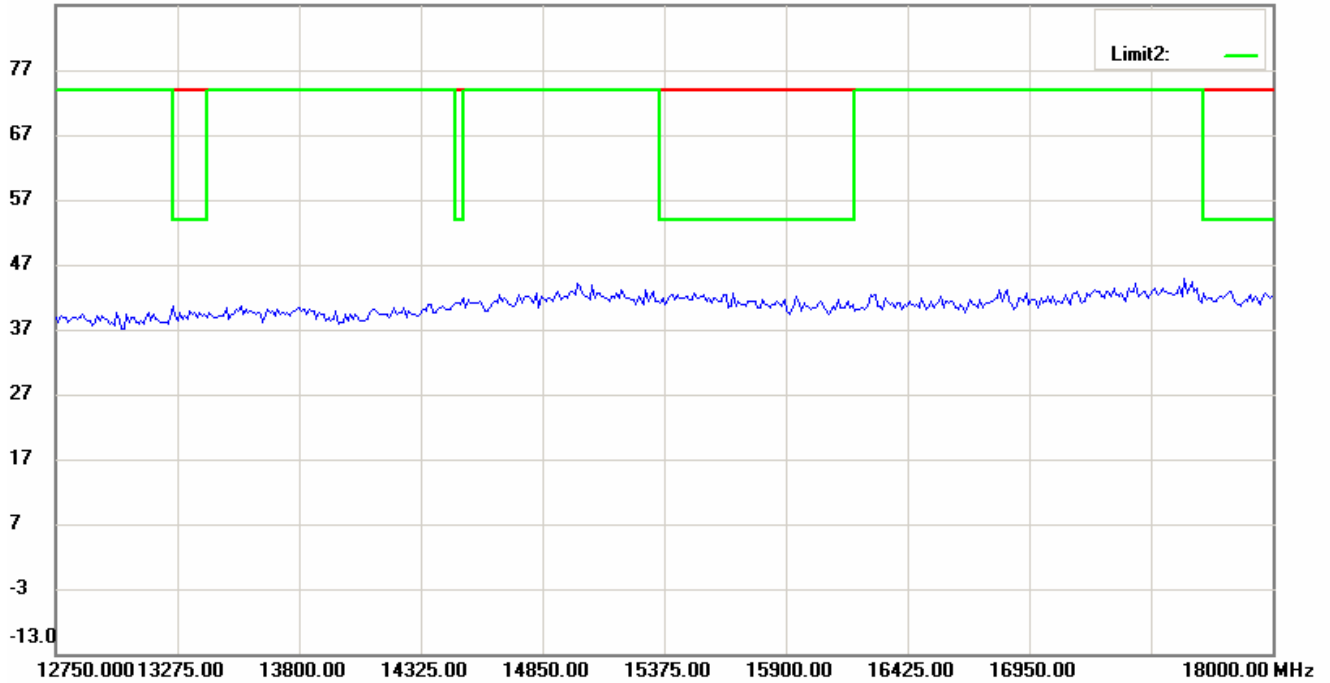


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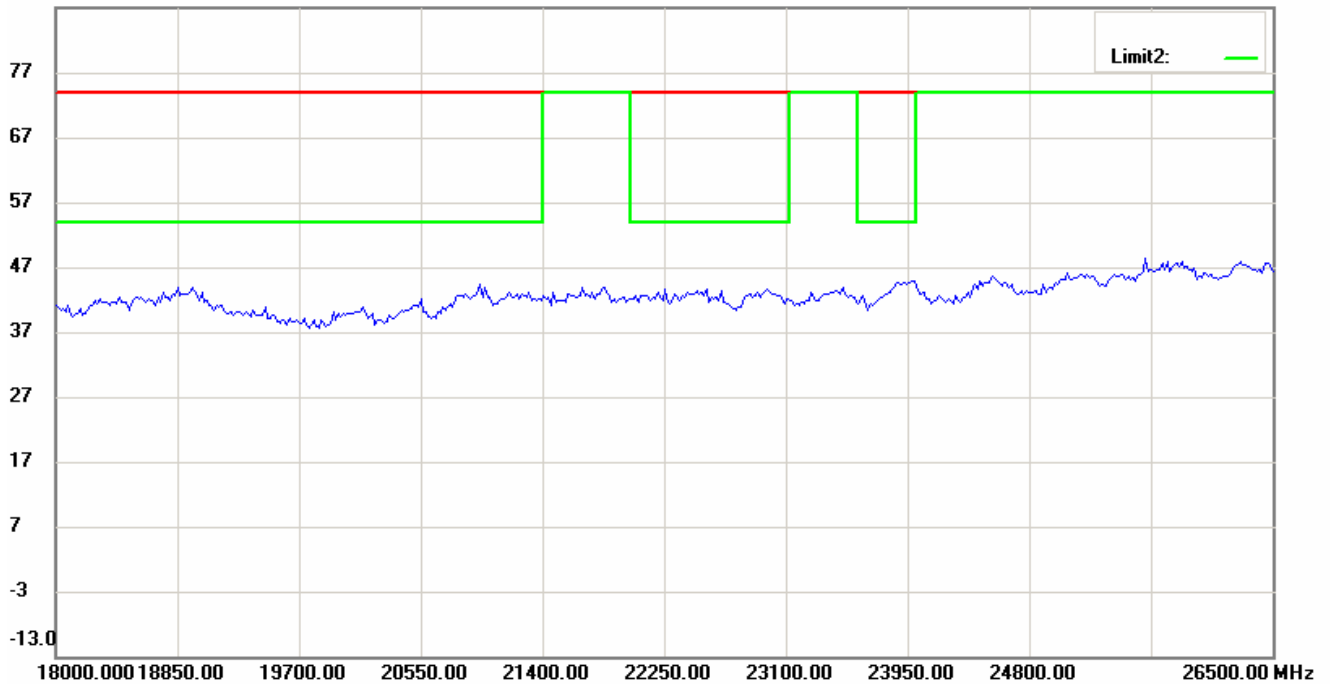
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



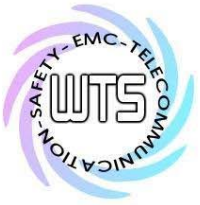
87.0 dBuV/m



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

Note:

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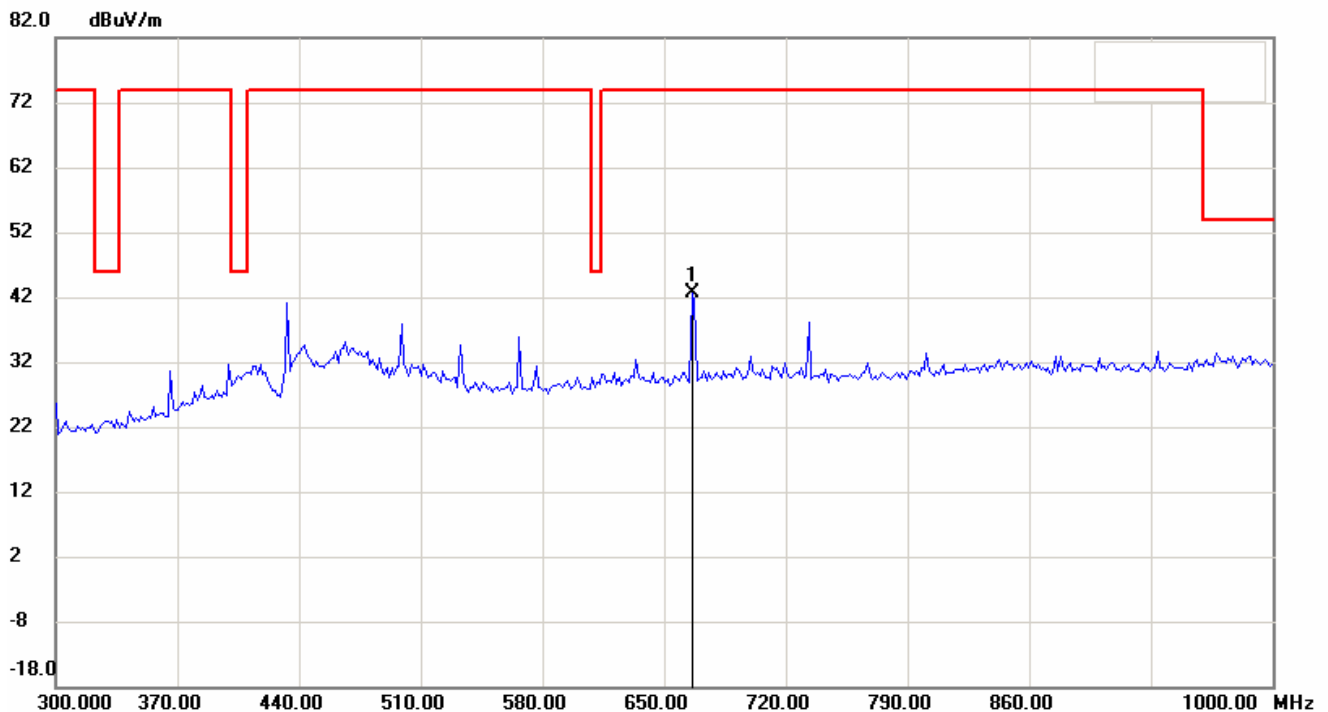
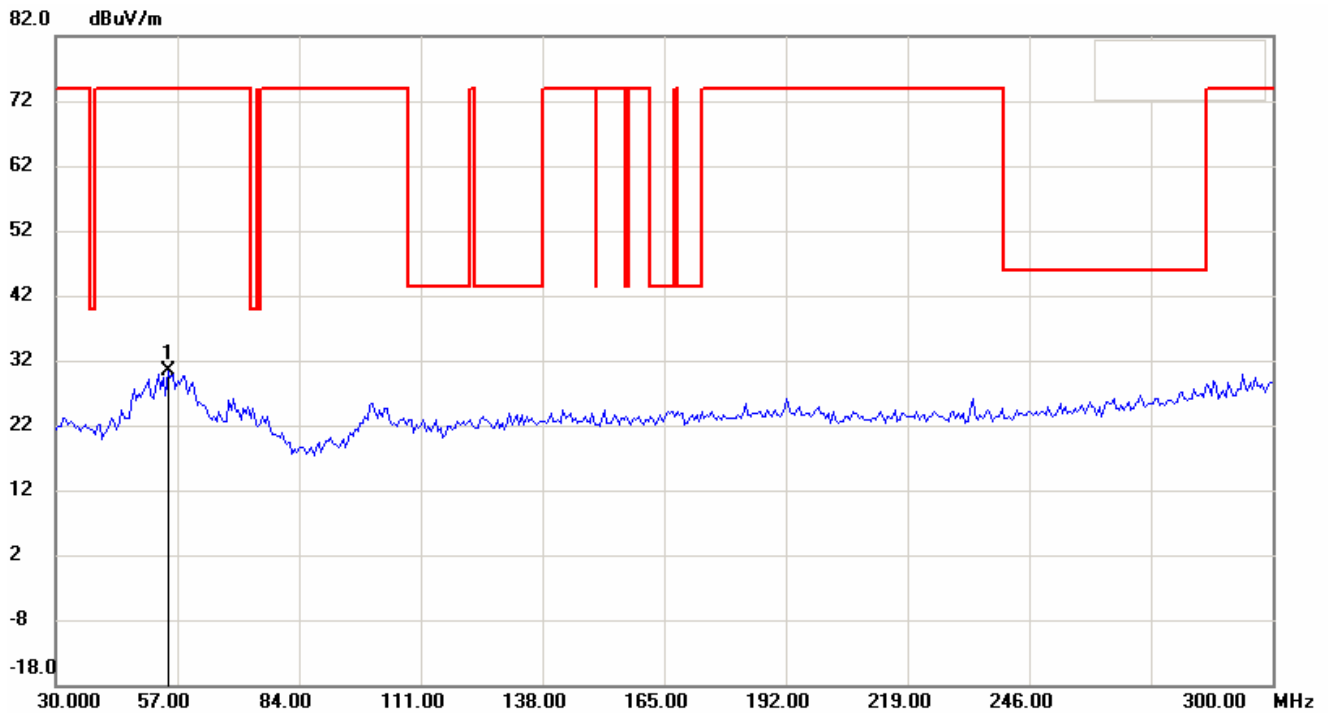


Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

Mode B Low channel

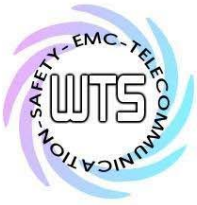
Antenna Polarization H



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

Note:

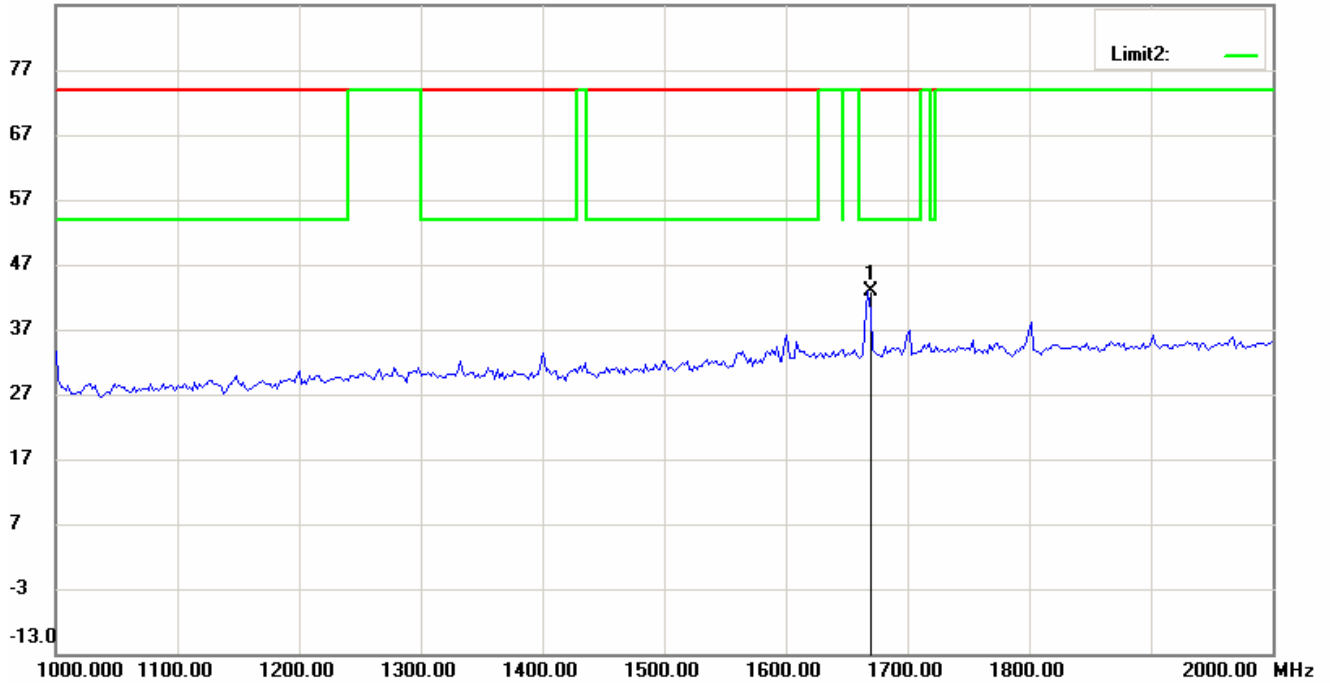
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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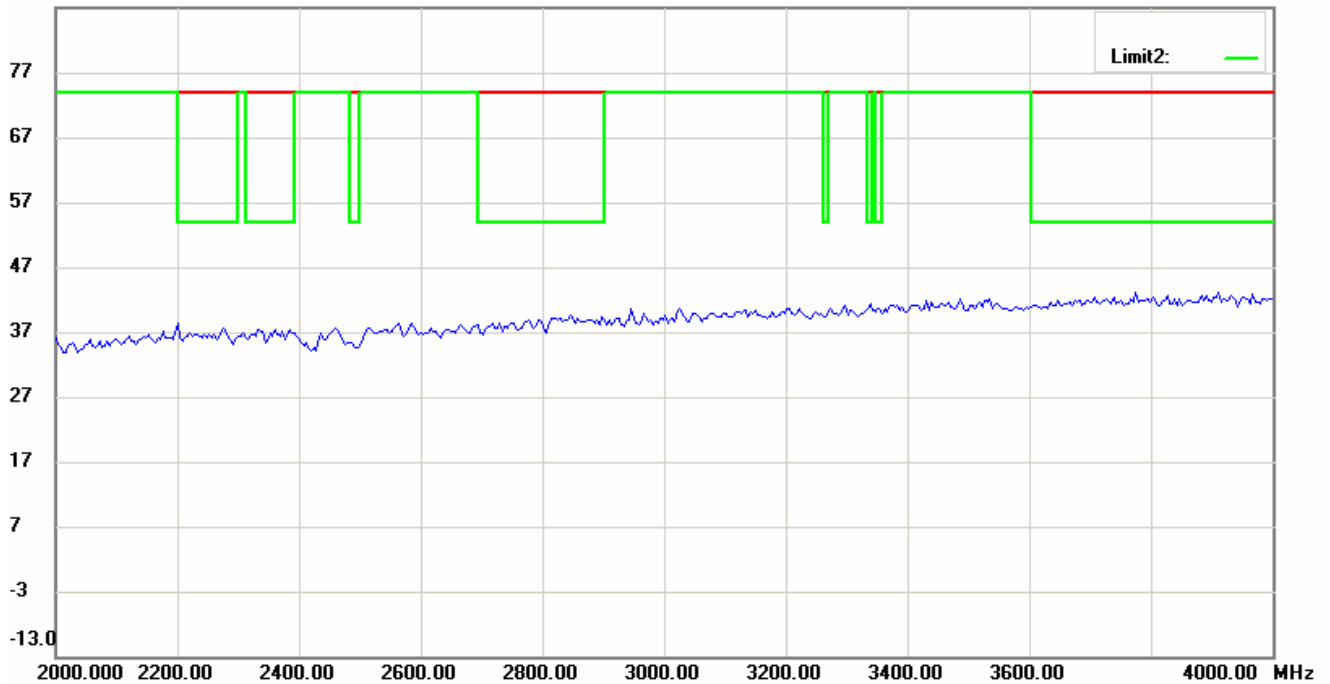
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



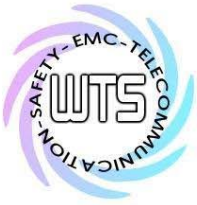
87.0 dBuV/m



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

Note:

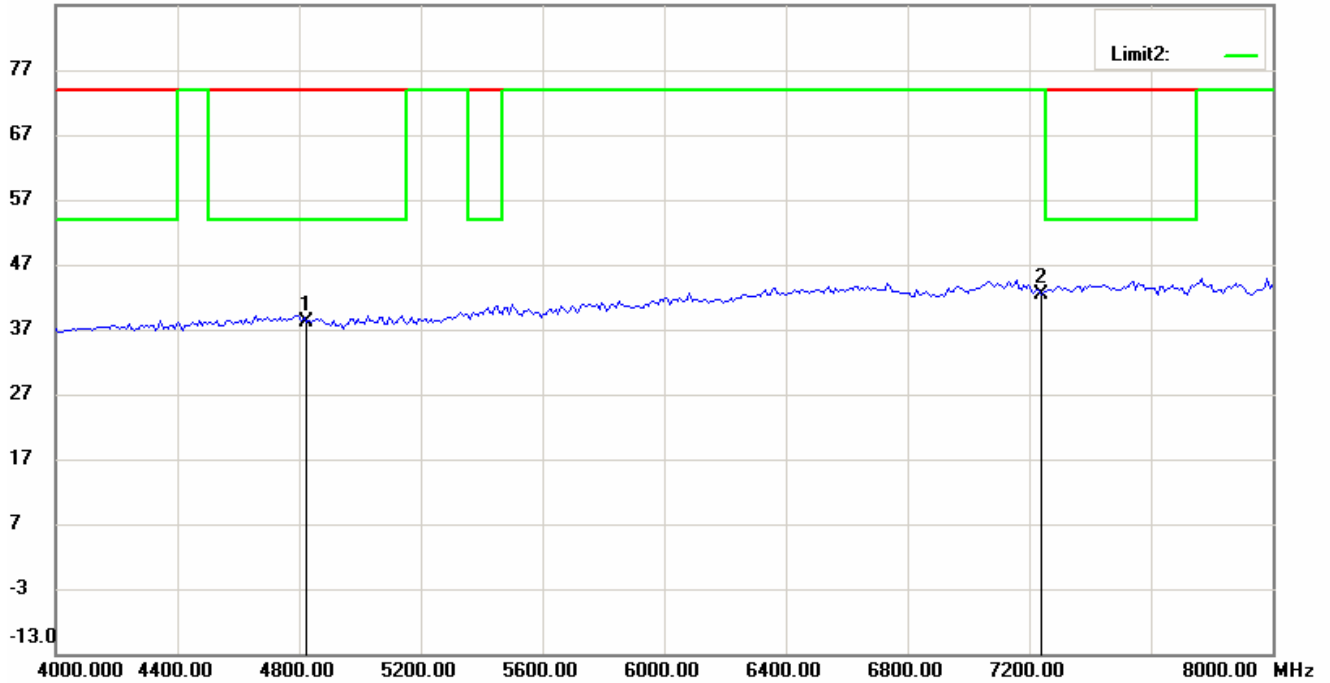
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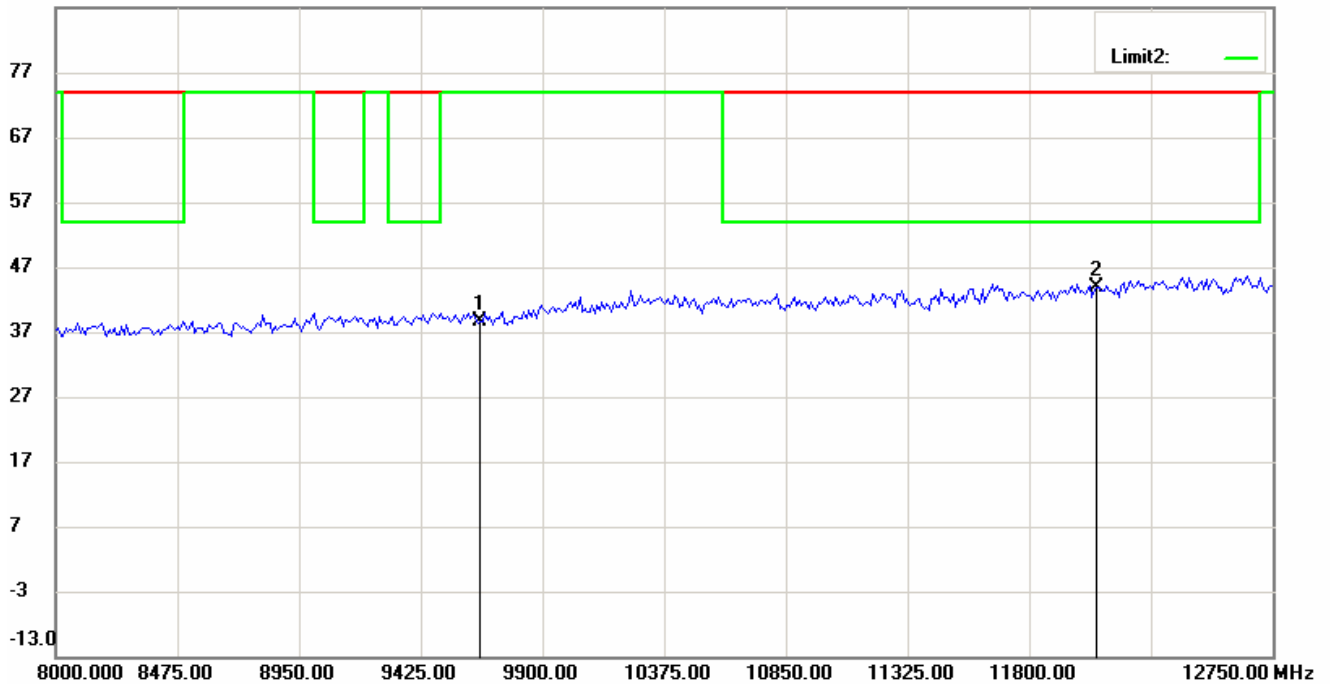
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



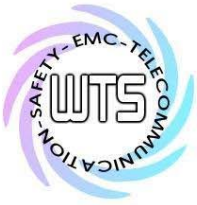
87.0 dBuV/m



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

Note:

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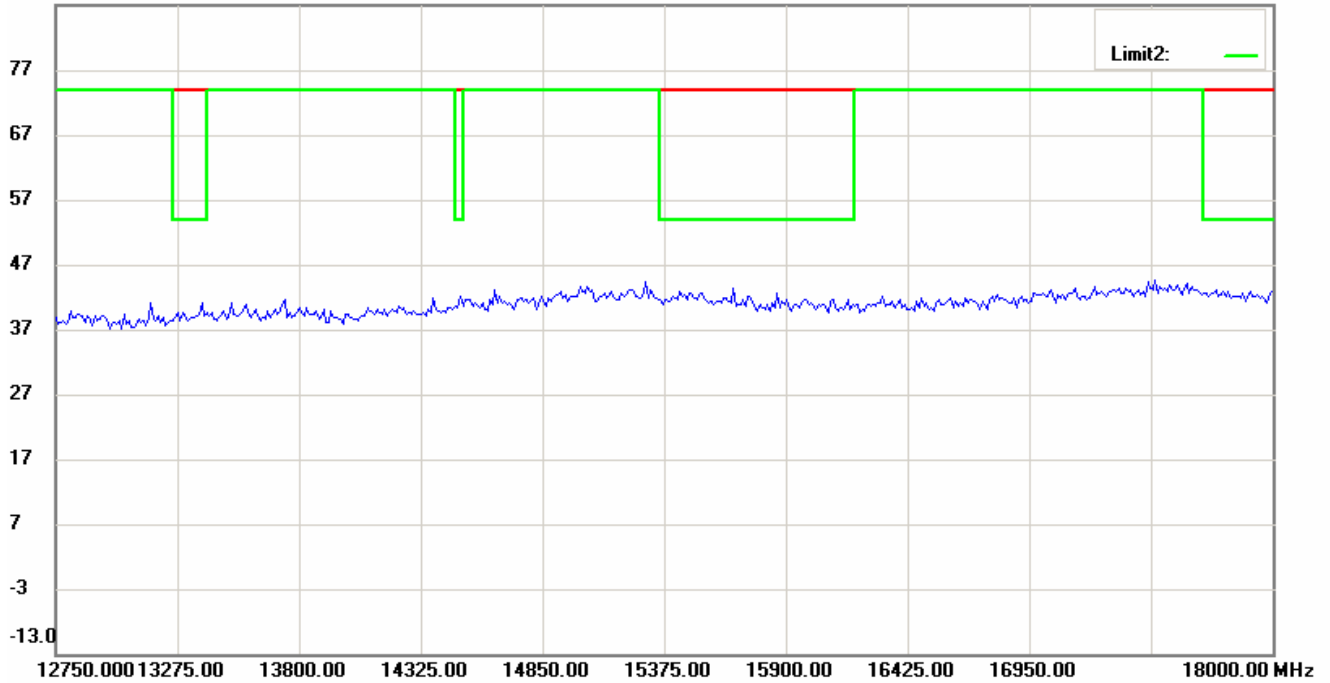


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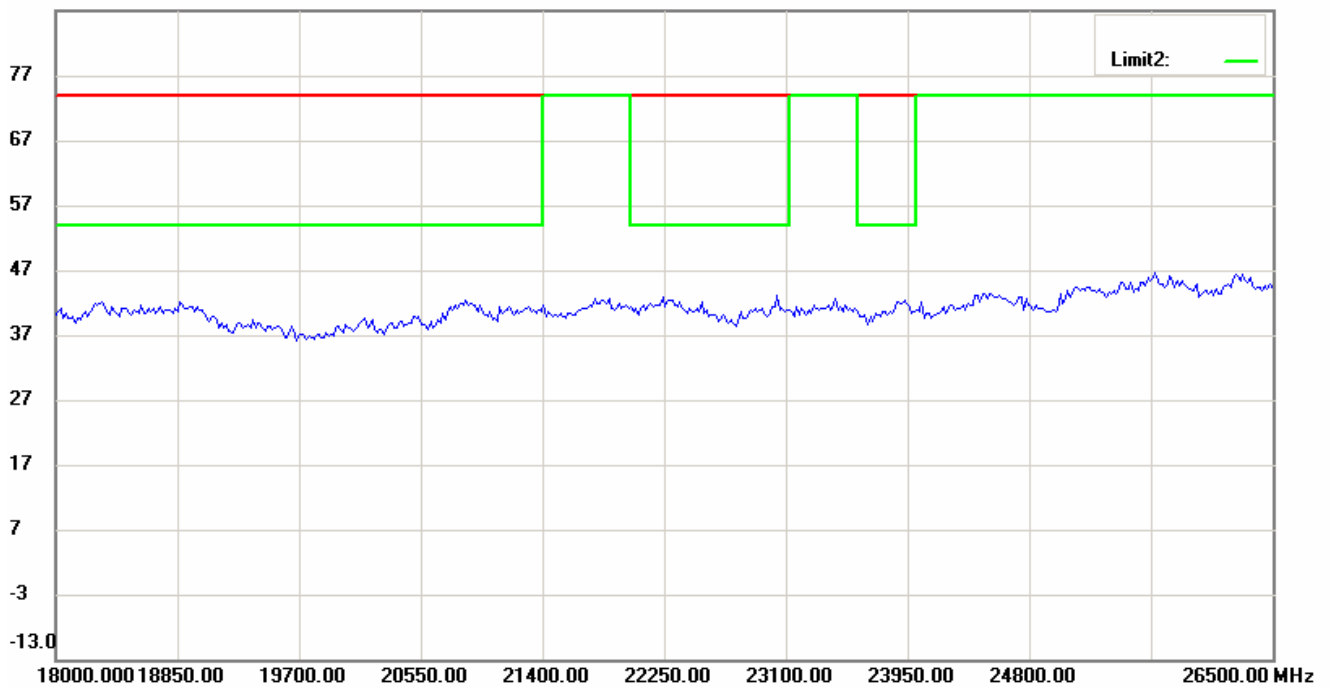
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



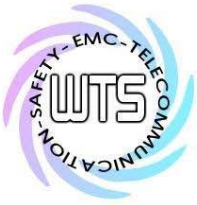
87.0 dBuV/m



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

Note:

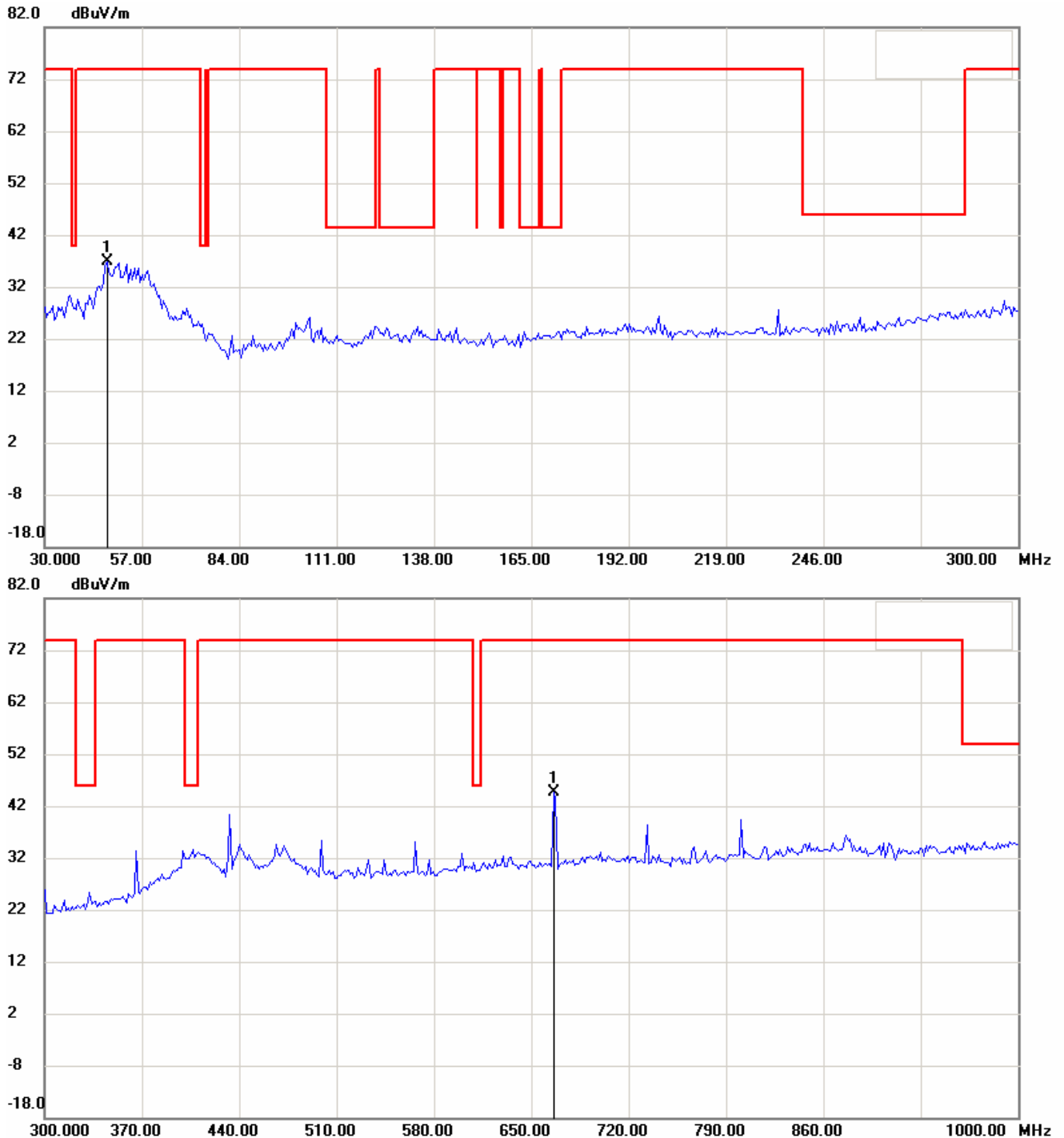
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

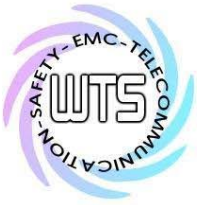
Antenna Polarization V



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

Note:

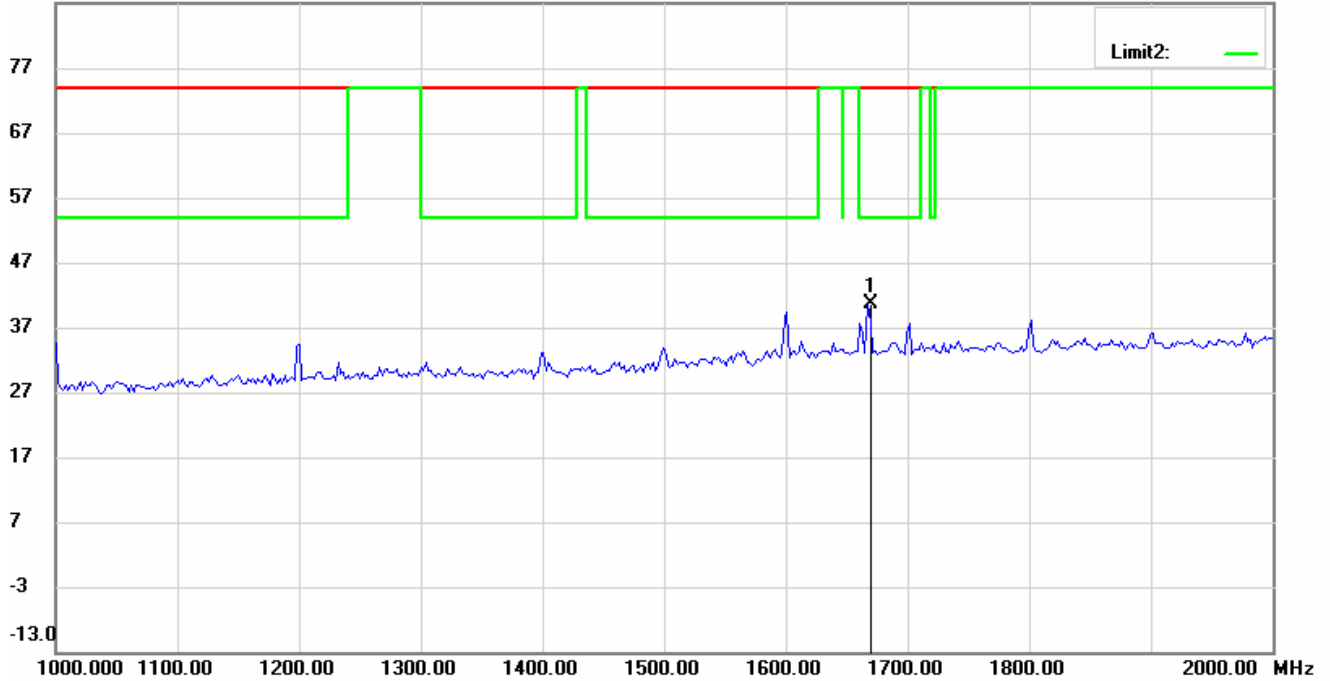
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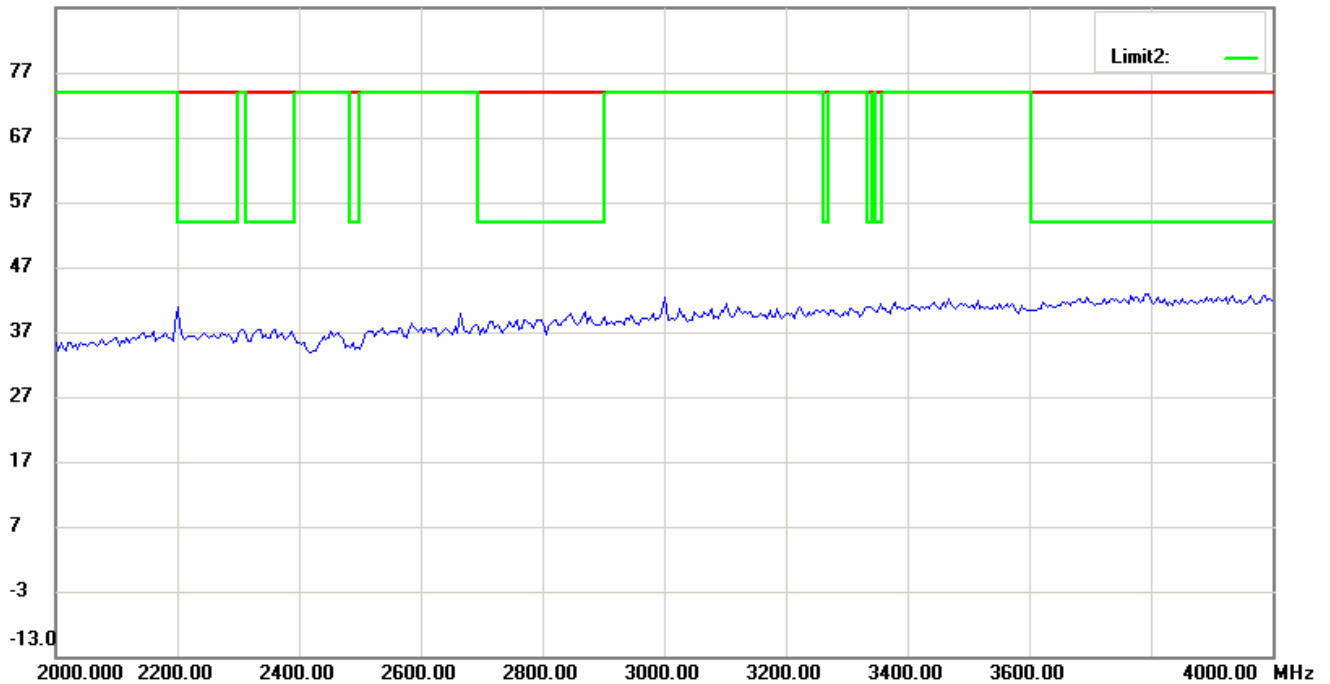
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



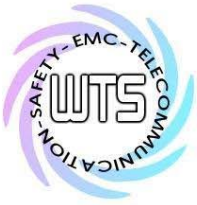
87.0 dBuV/m



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

Note:

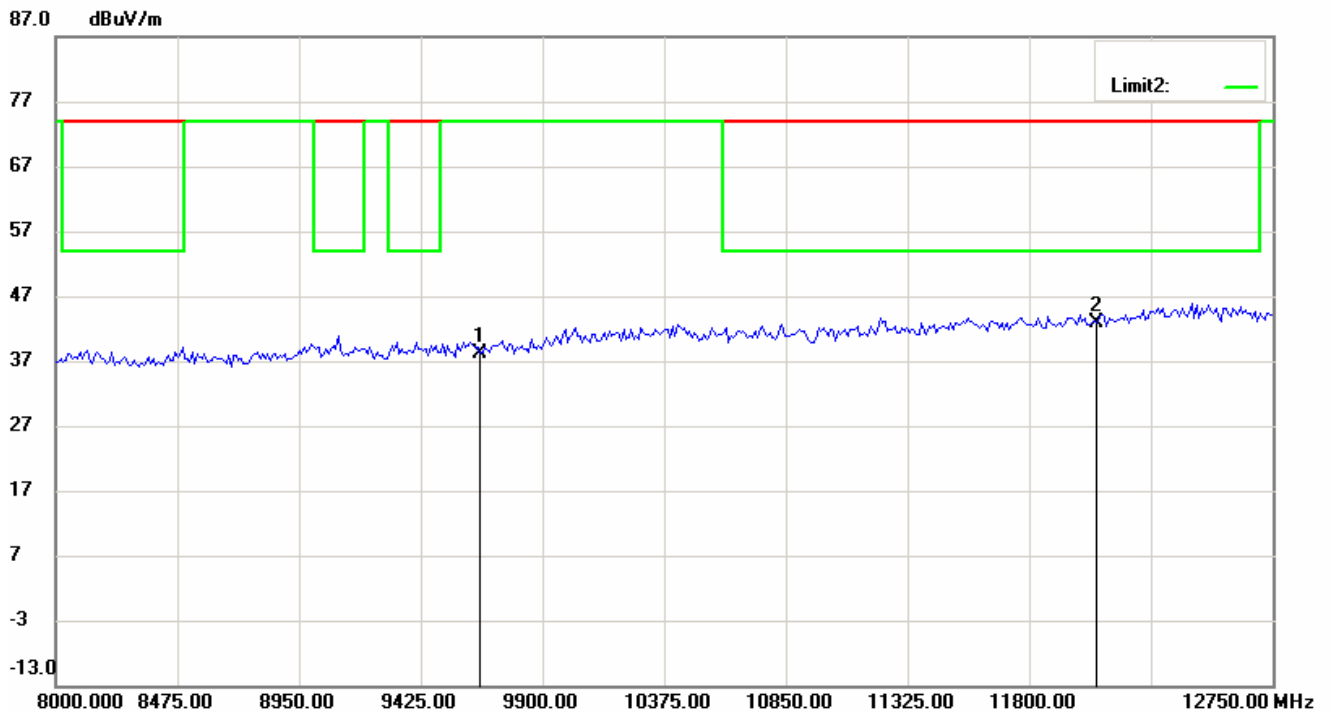
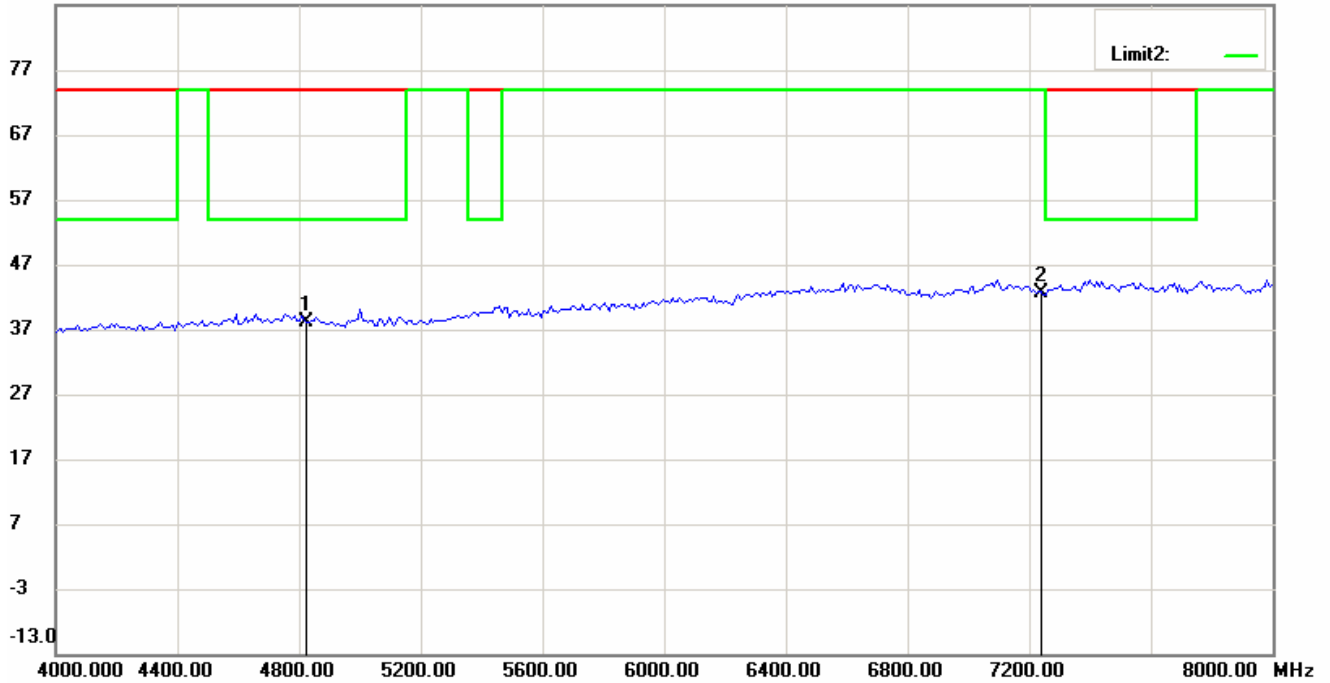
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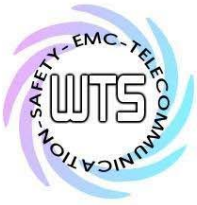
87.0 dBuV/m



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

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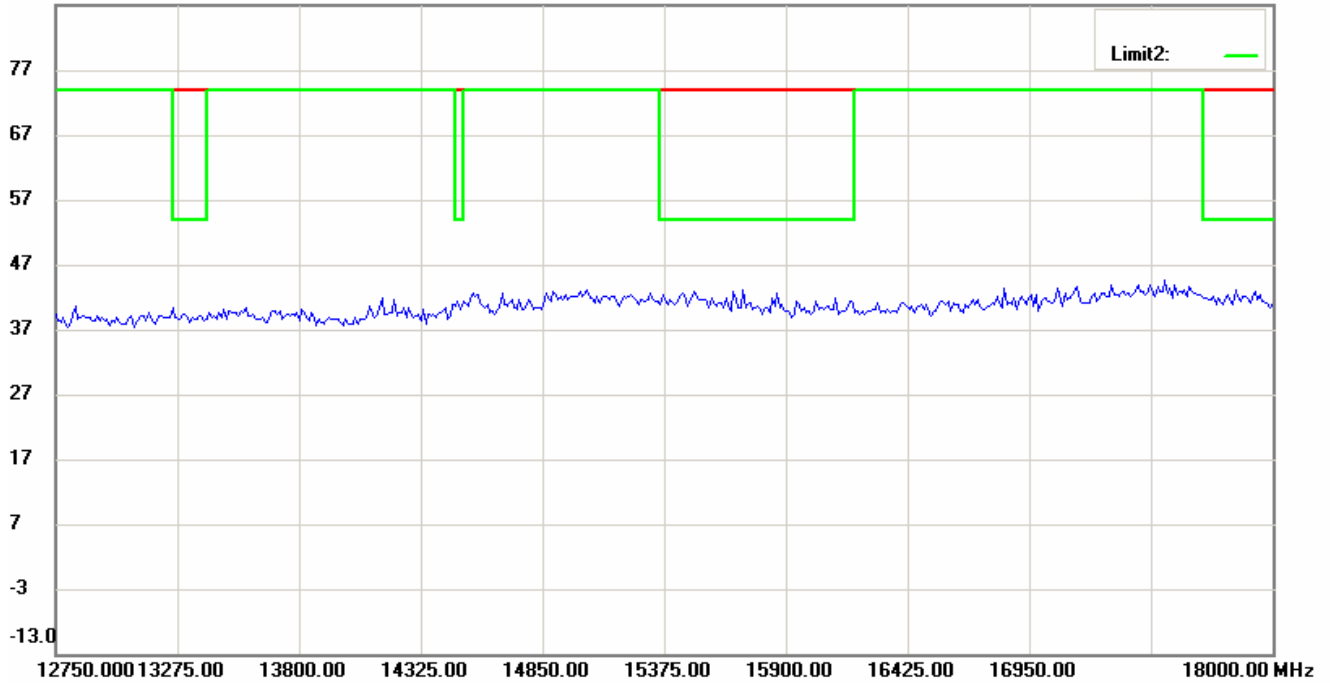


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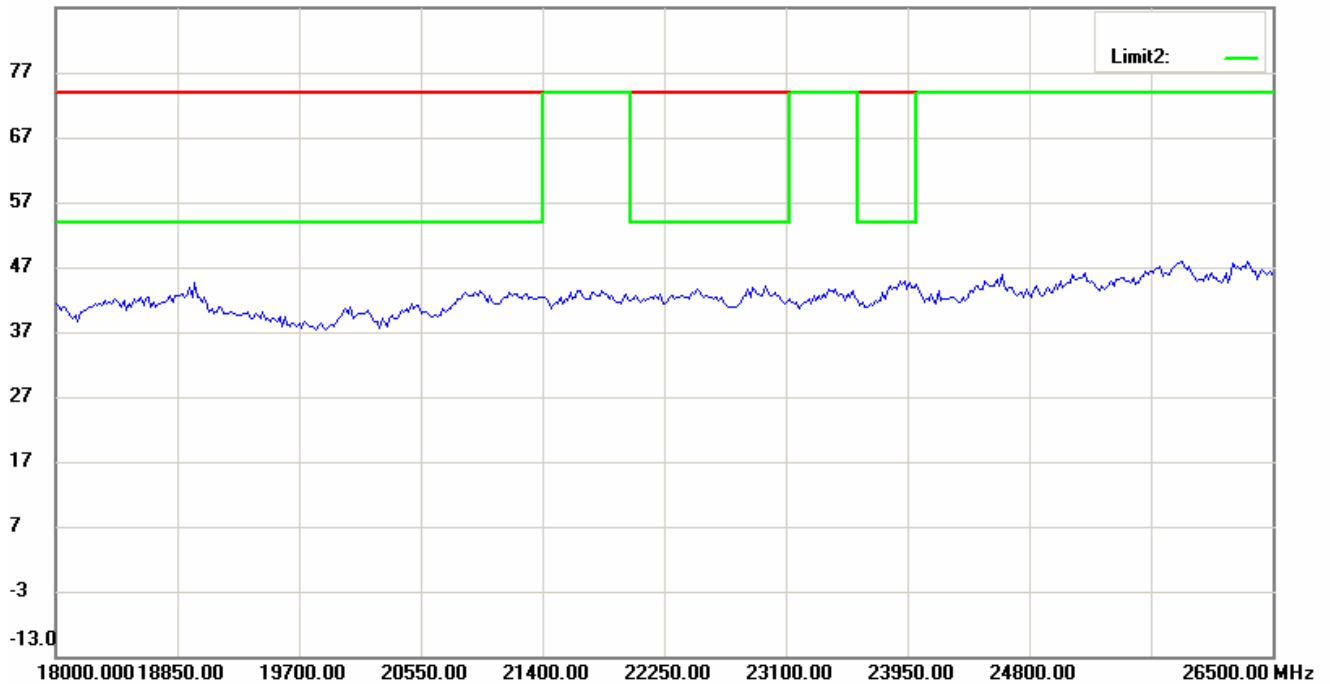
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



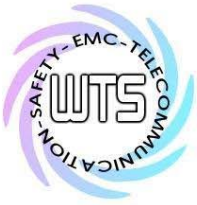
87.0 dBuV/m



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

Note:

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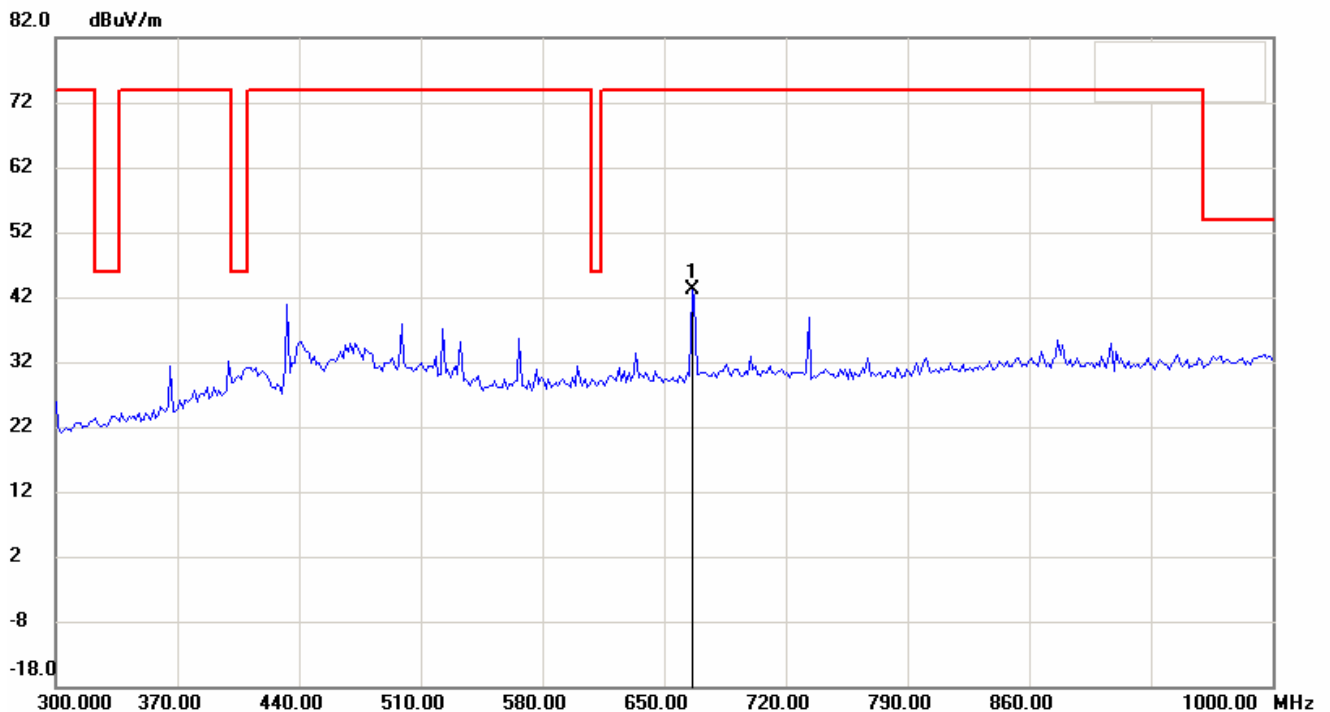
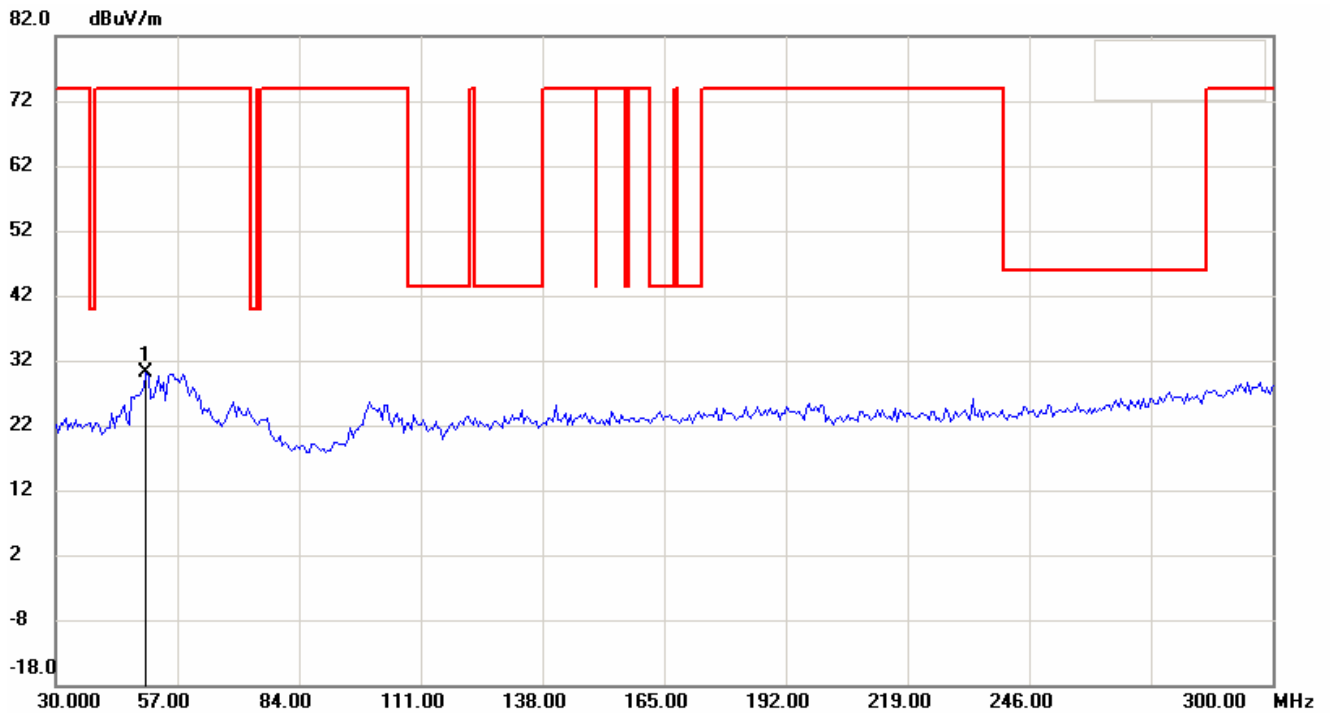


Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

Middle channel

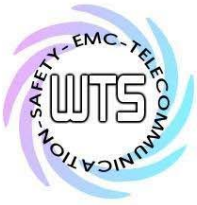
Antenna Polarization H



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

Note:

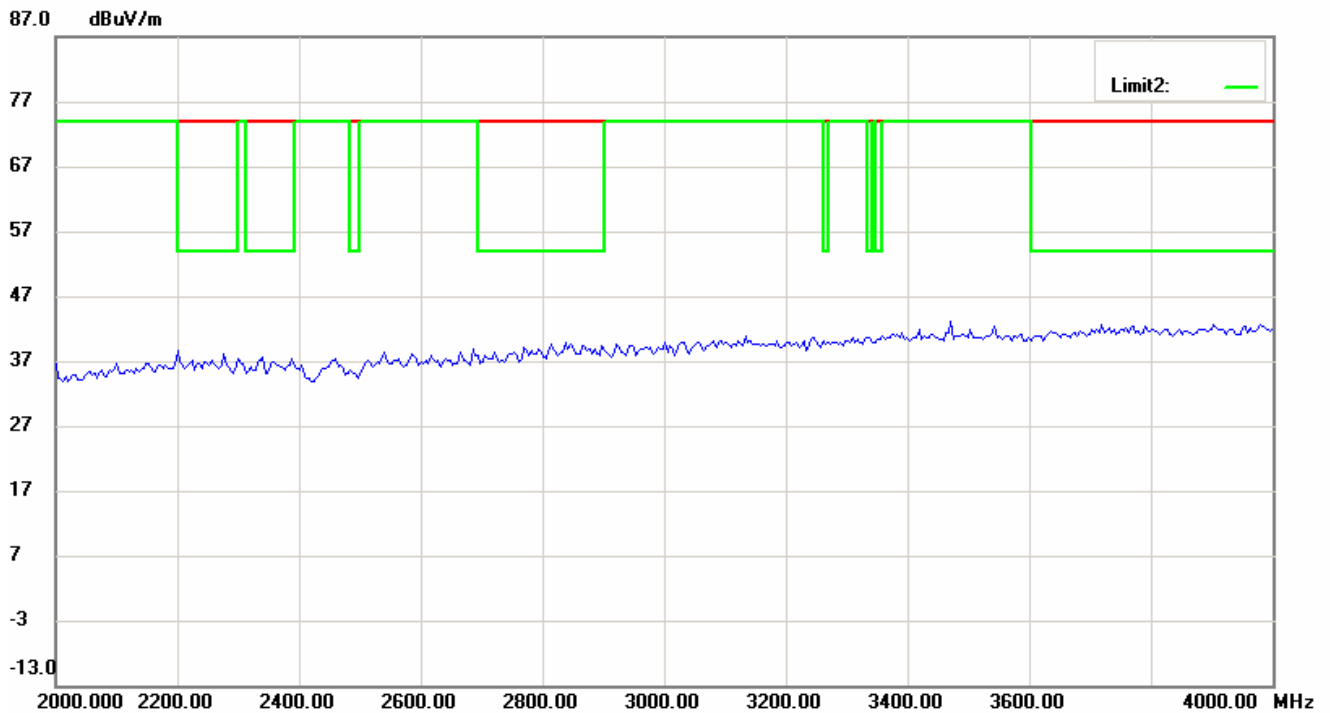
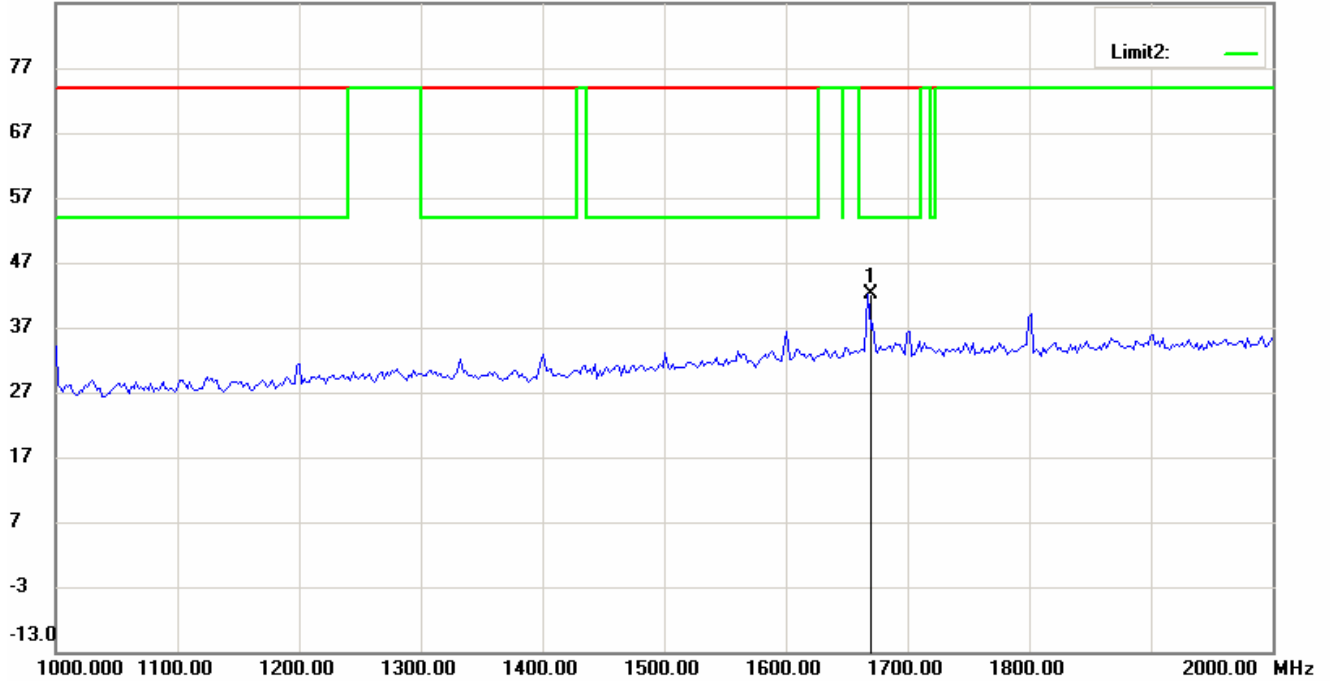
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

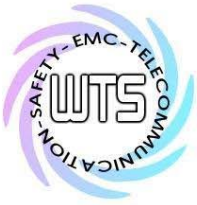
87.0 dBuV/m



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

Note:

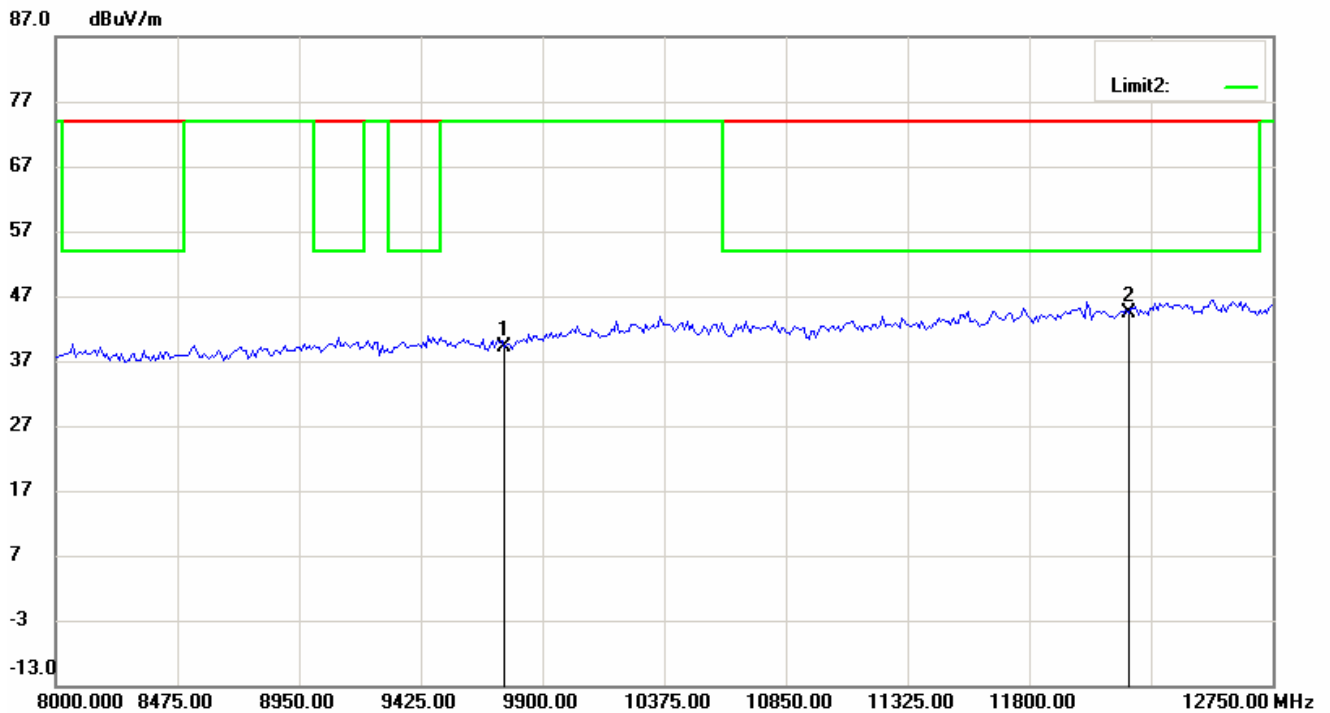
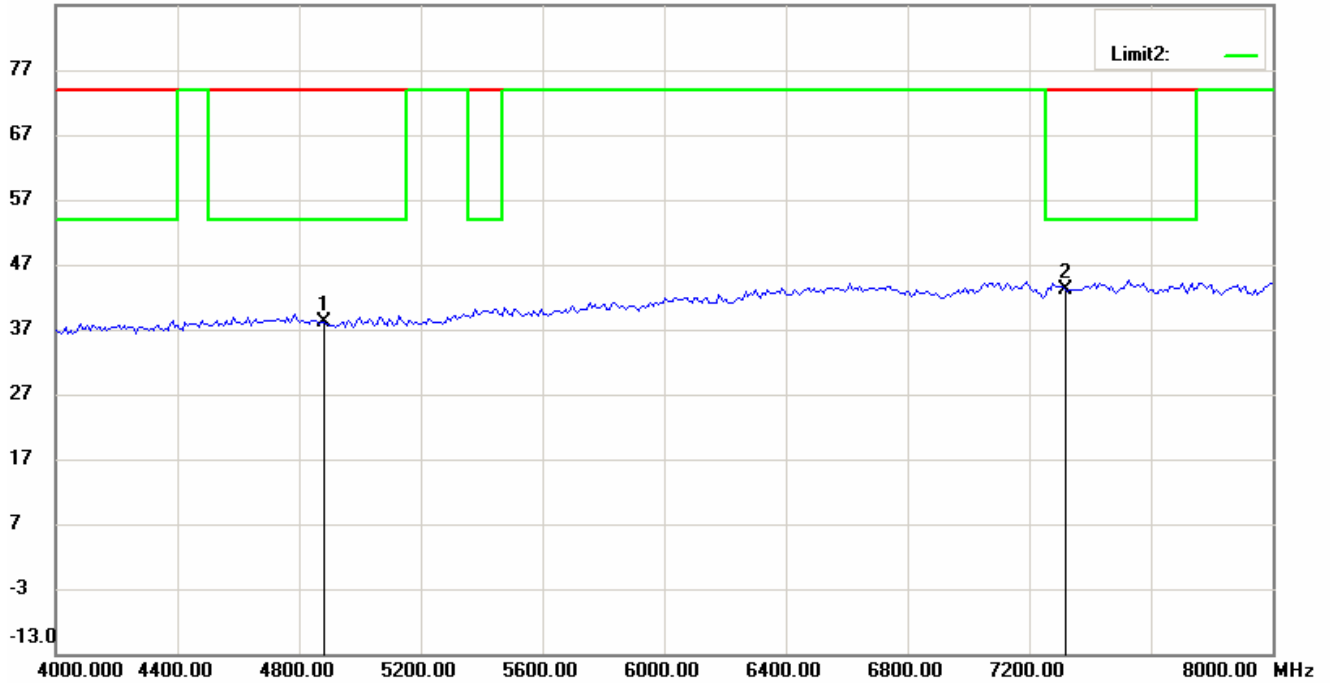
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

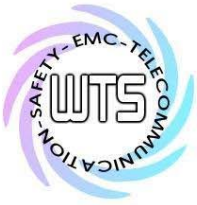
87.0 dBuV/m



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

Note:

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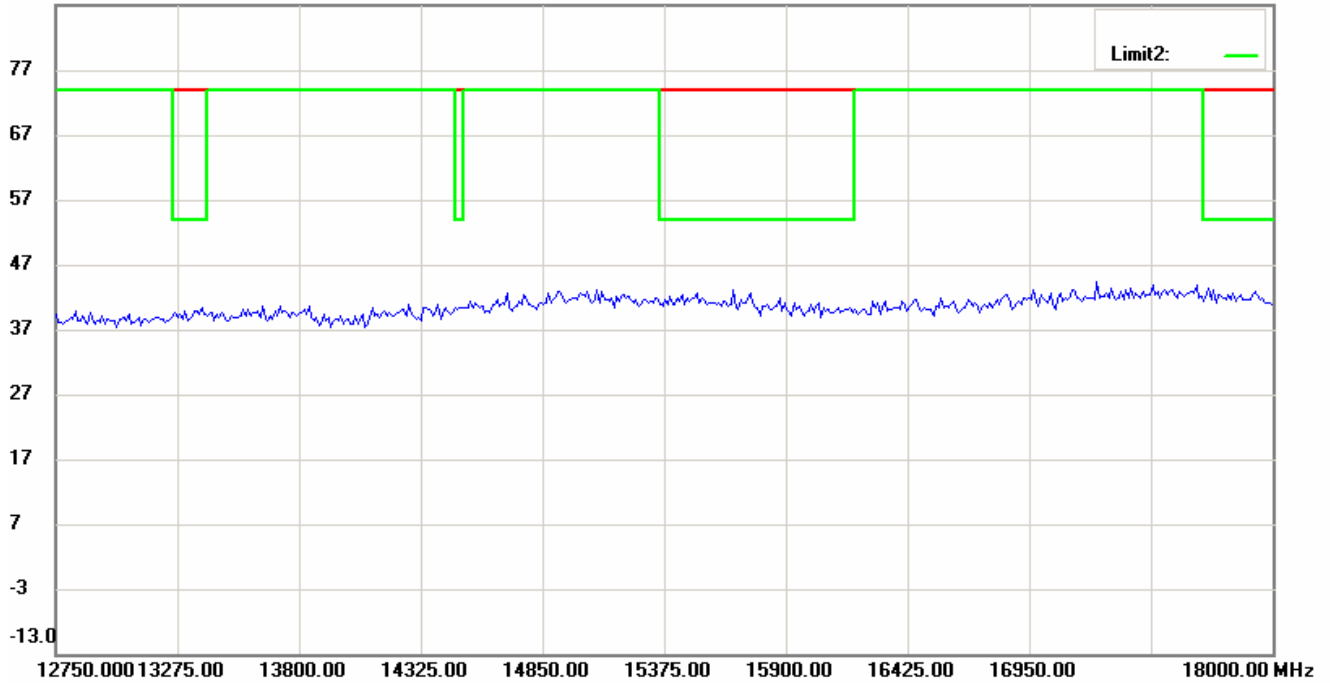


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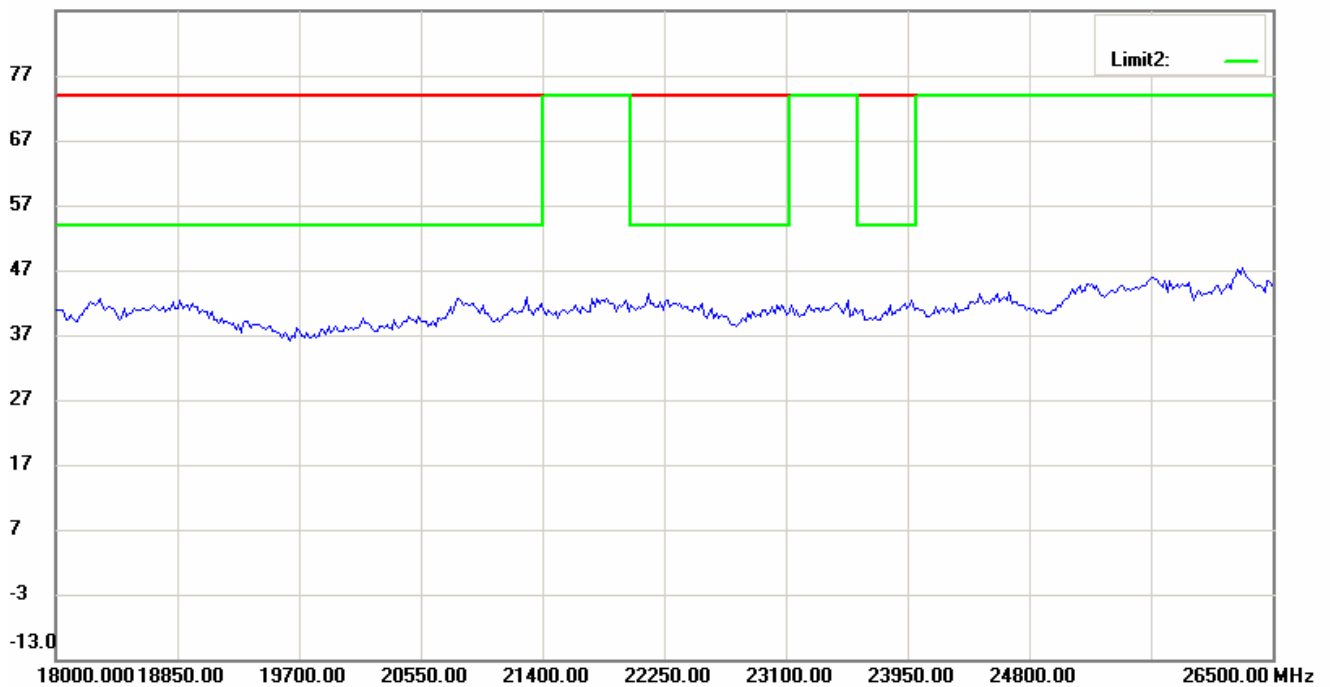
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



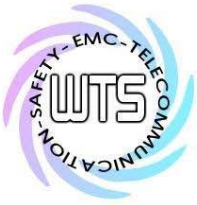
87.0 dBuV/m



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

Note:

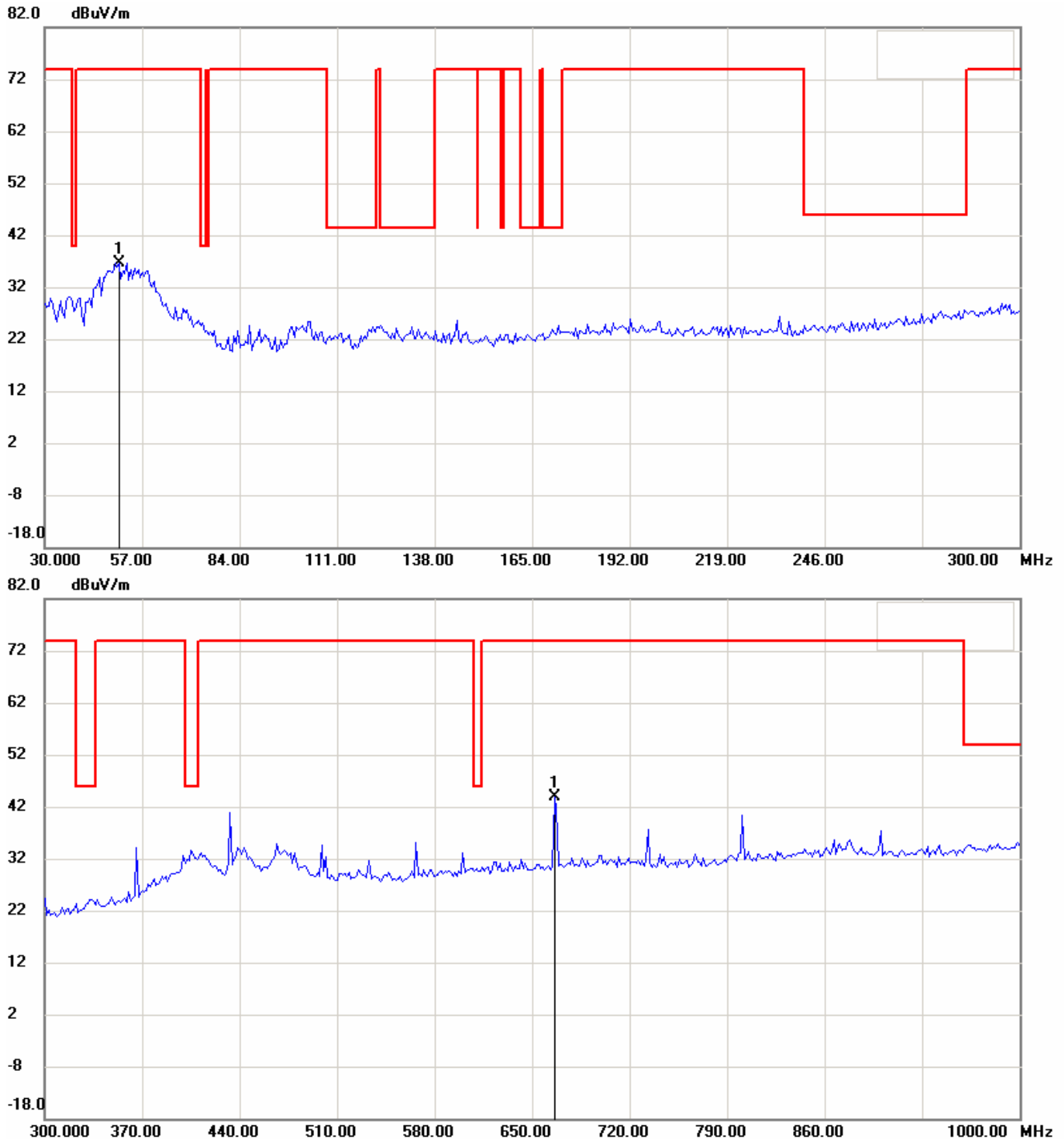
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

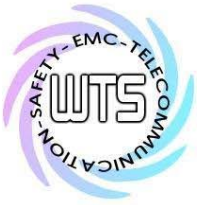
Antenna Polarization V



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

Note:

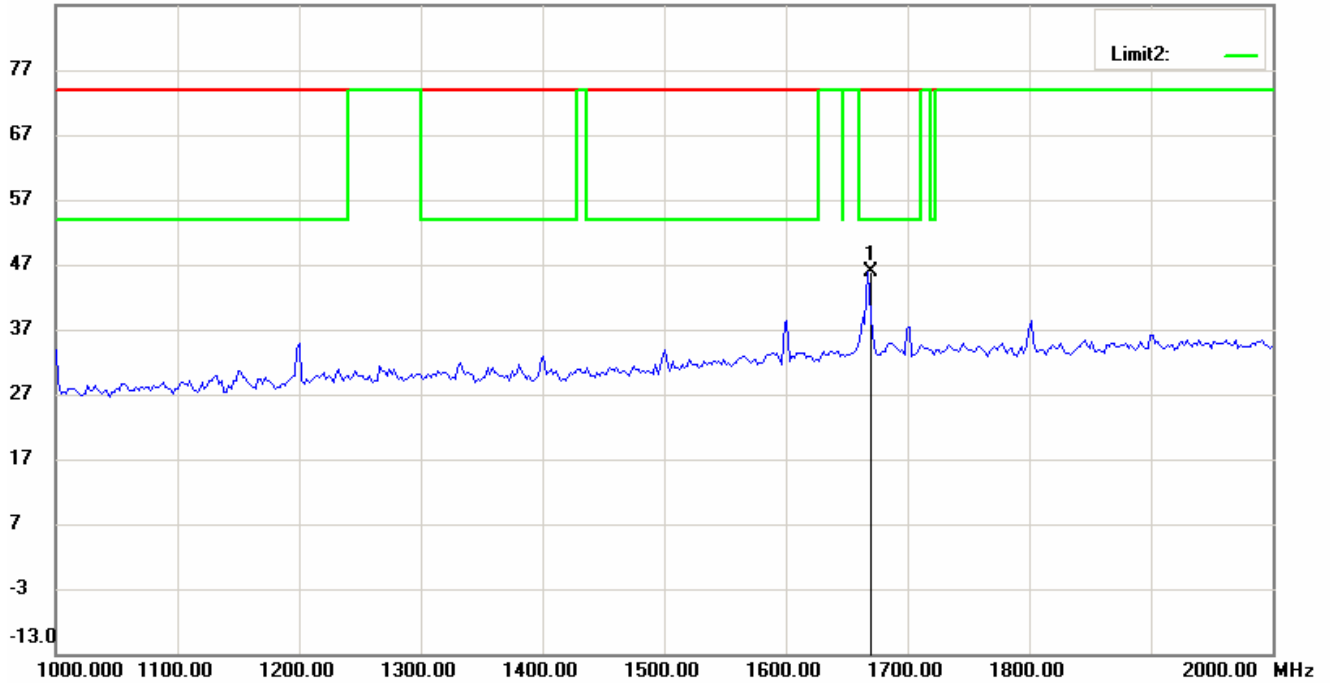
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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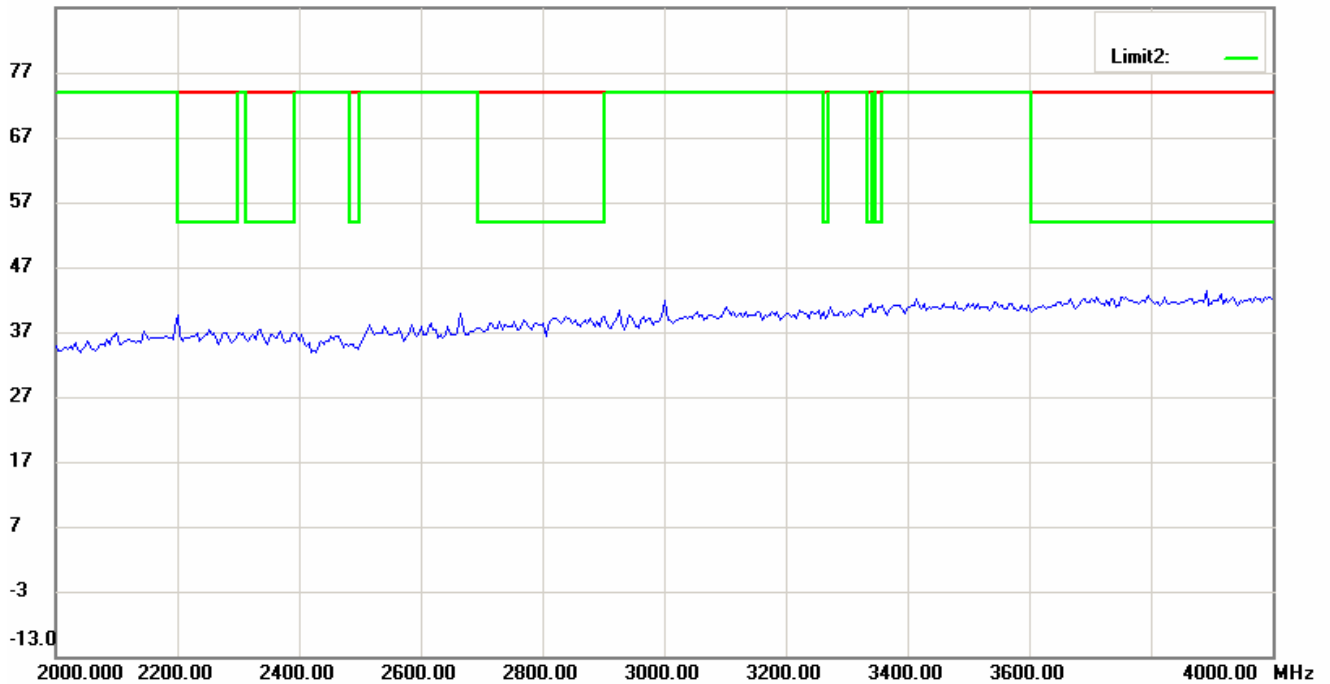
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

87.0 dBuV/m



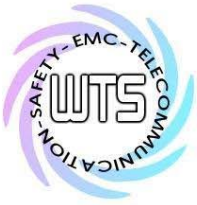
87.0 dBuV/m



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

Note:

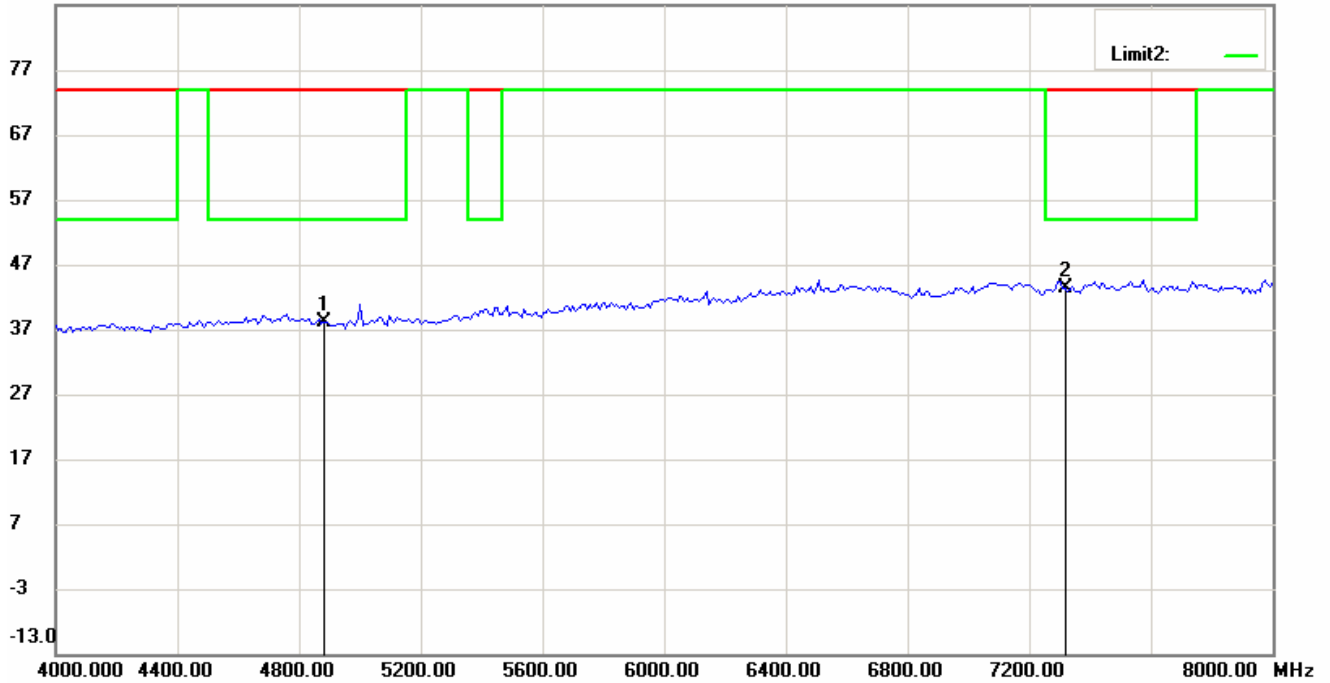
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
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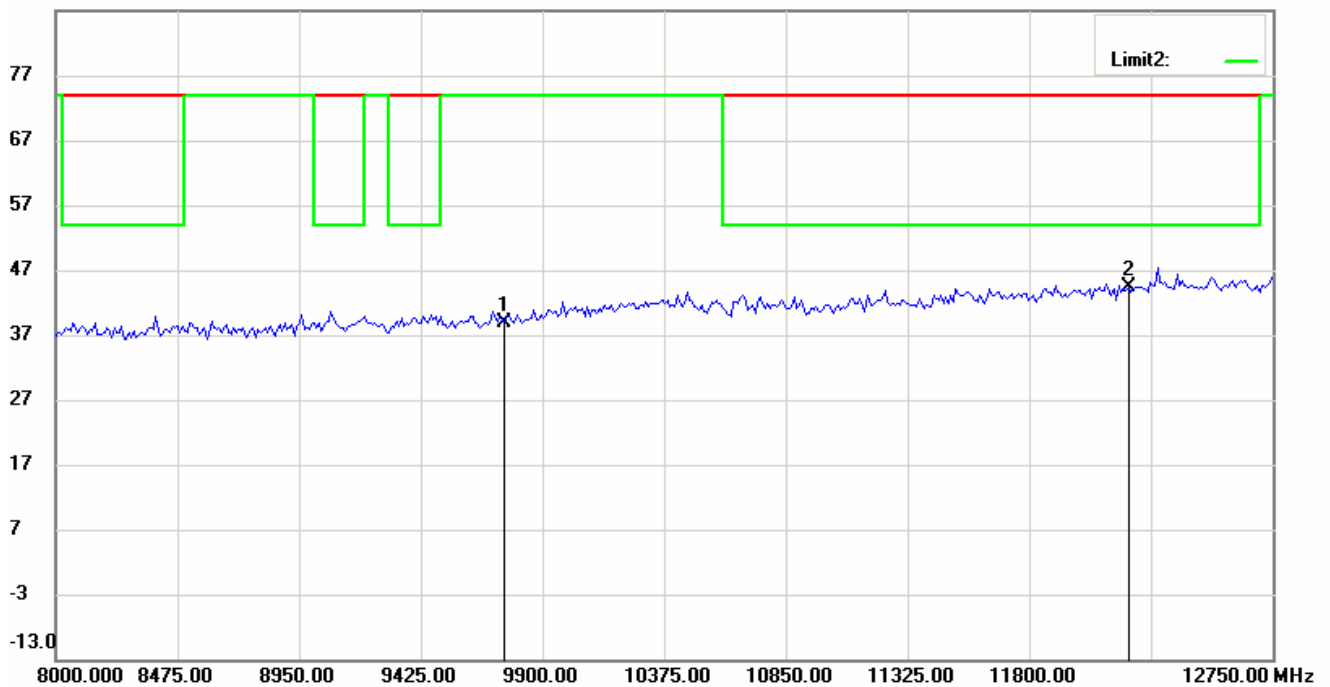
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FCC ID: W5Y-DSSV3

87.0 dBuV/m



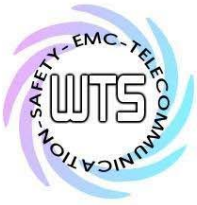
87.0 dBuV/m



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

Note:

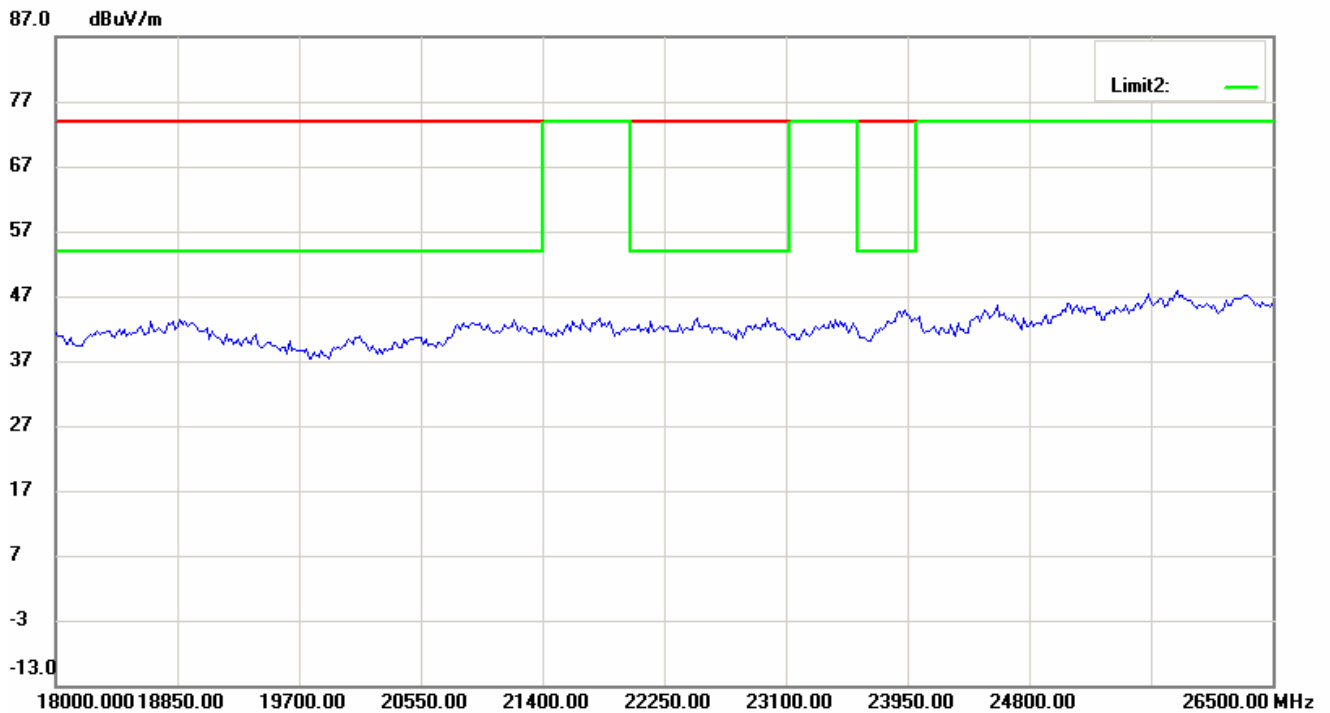
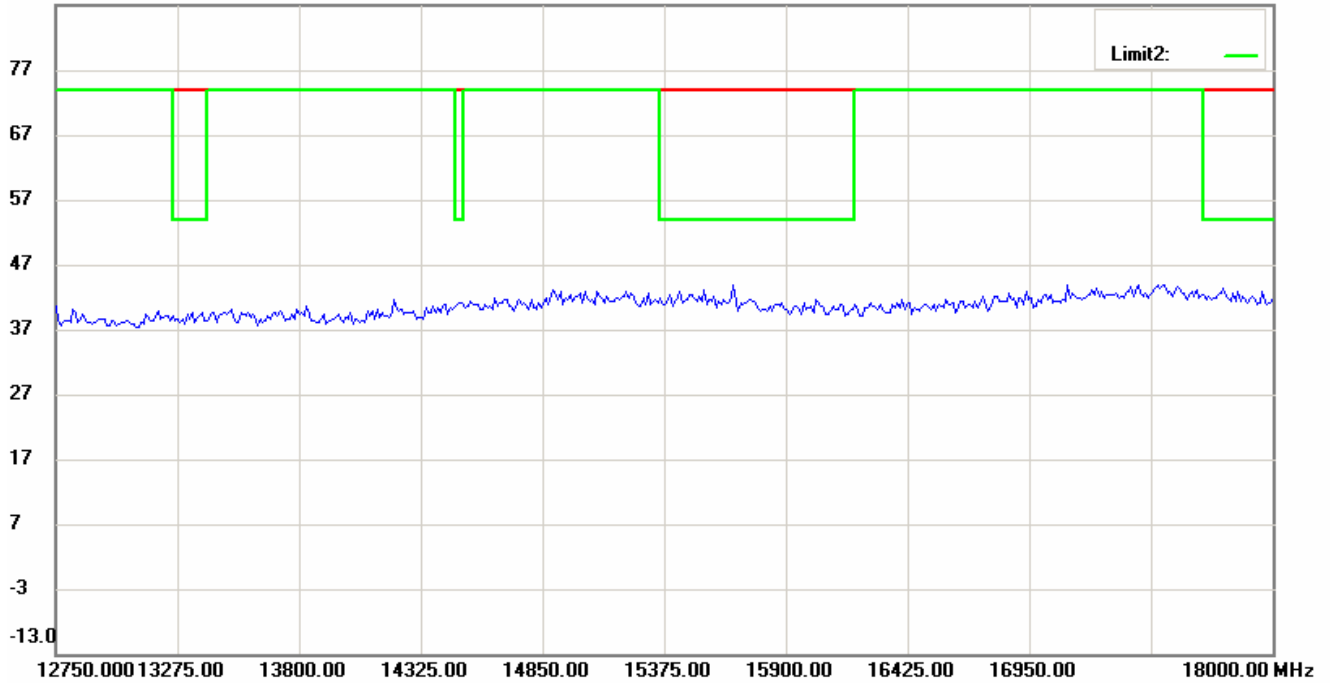
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

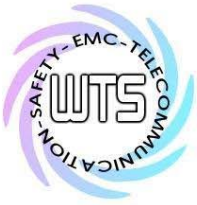
87.0 dBuV/m



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

Note:

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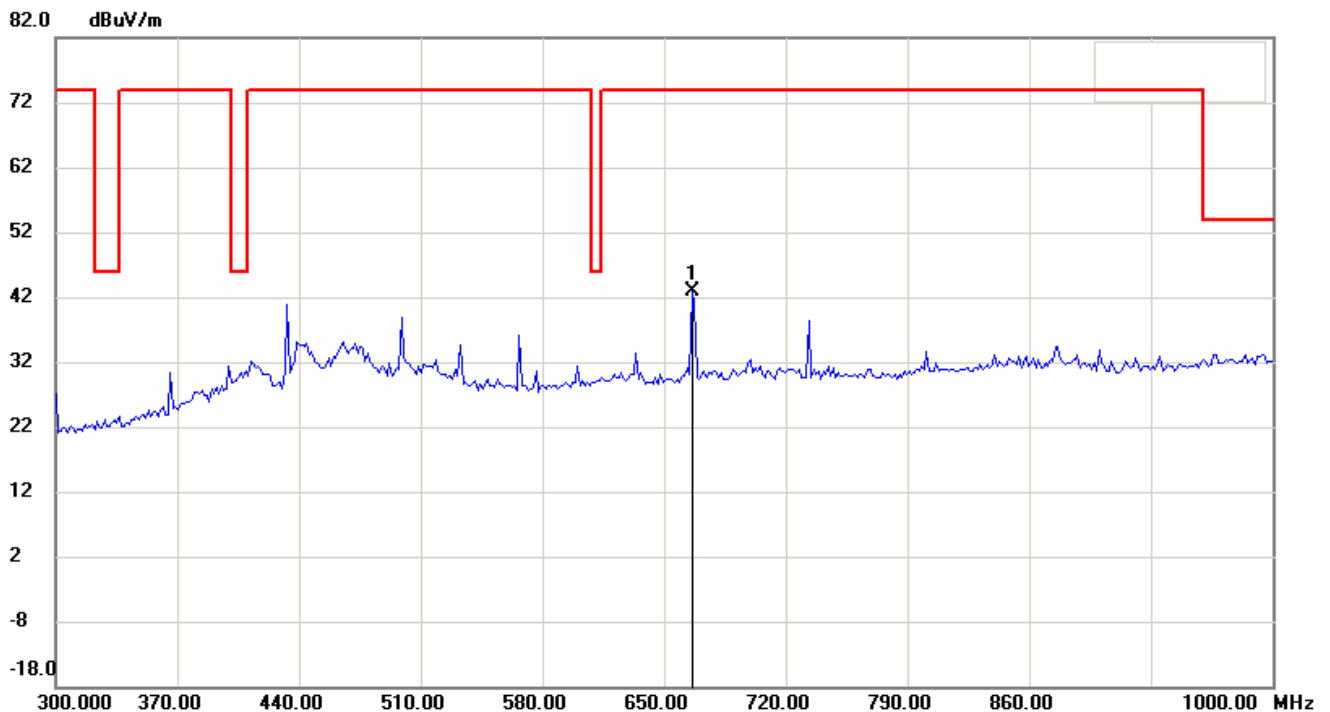
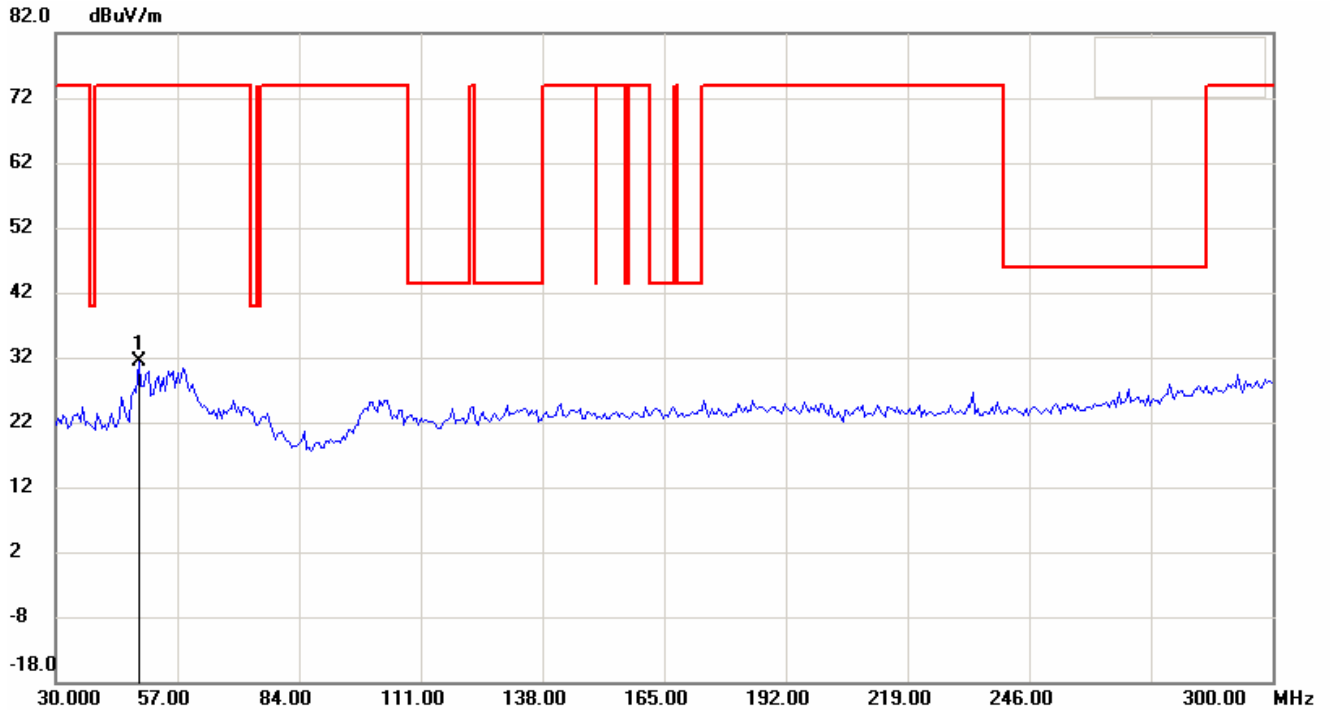


Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

High channel

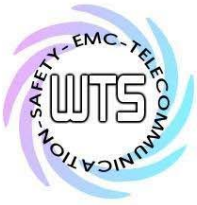
Antenna Polarization H



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

Note:

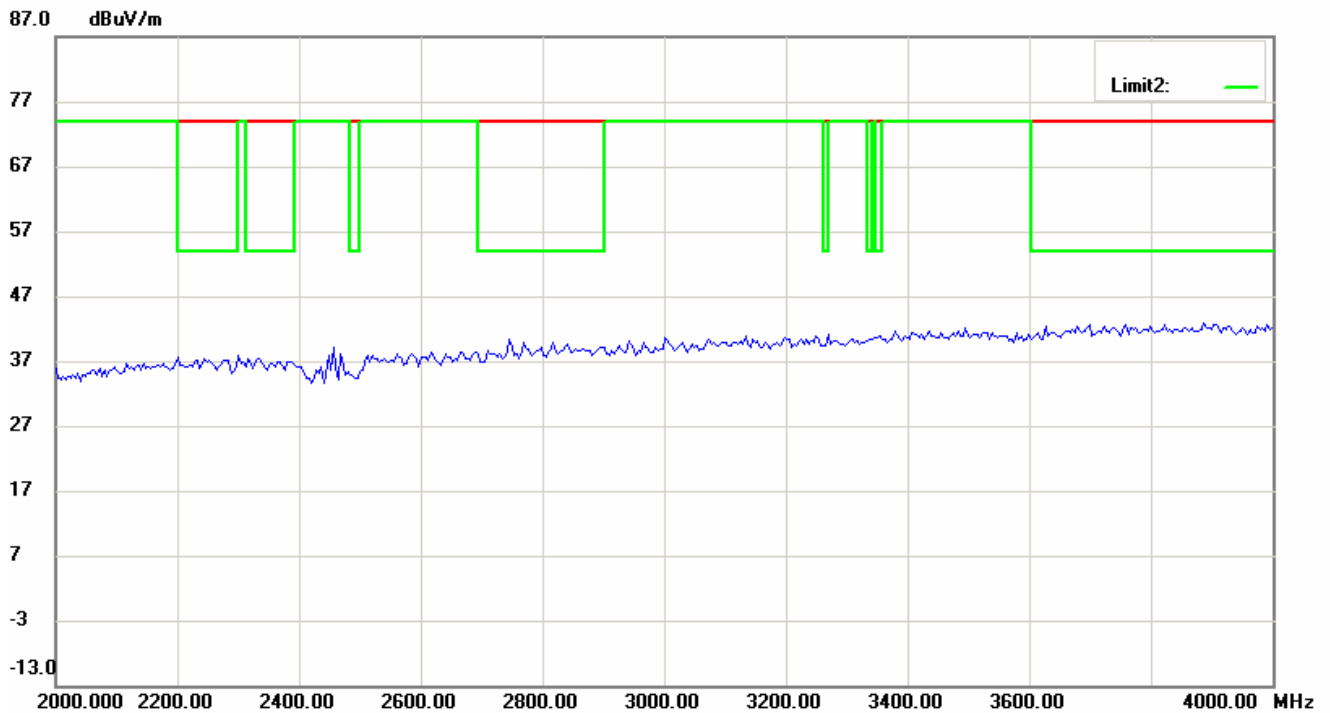
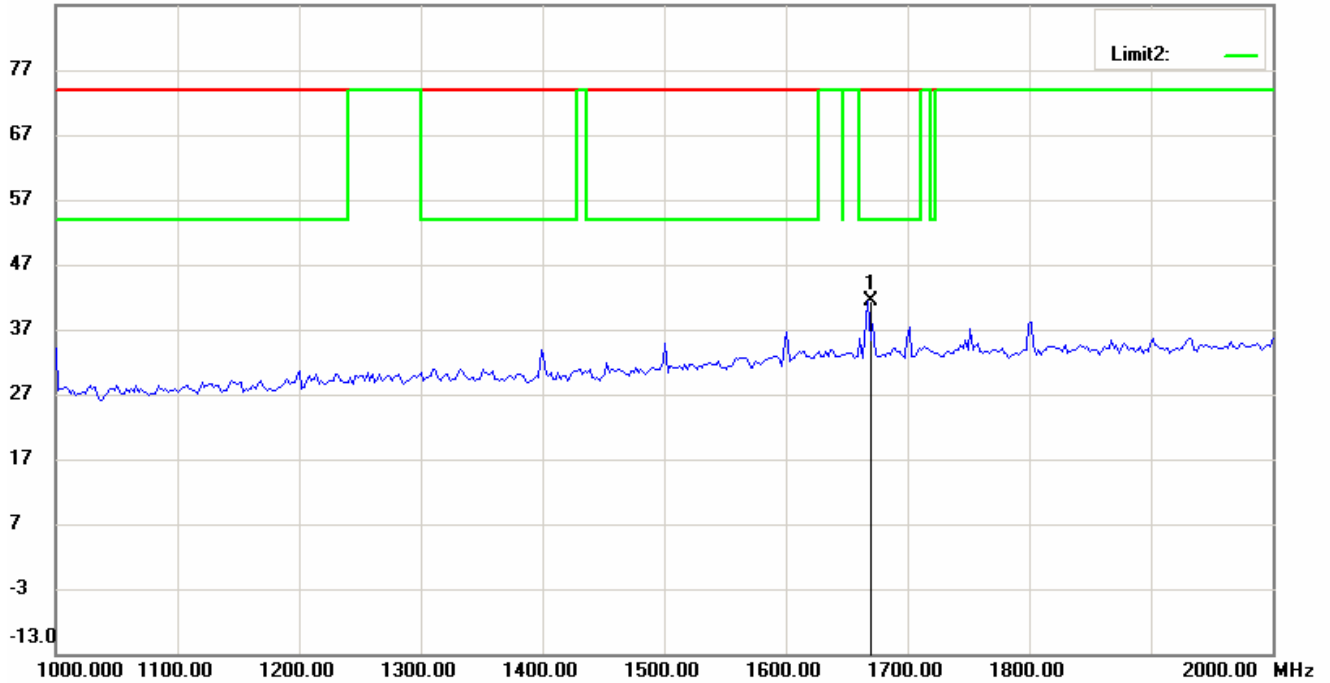
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

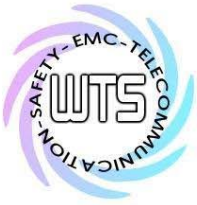
87.0 dBuV/m



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

Note:

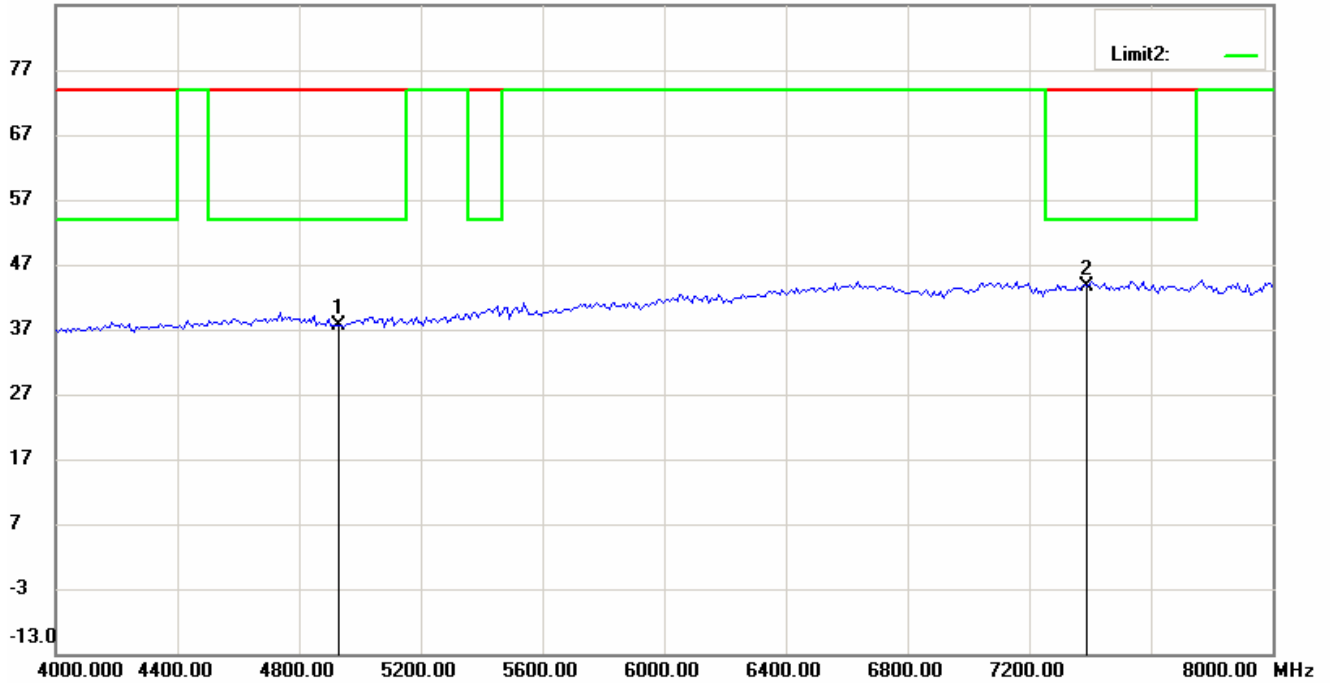
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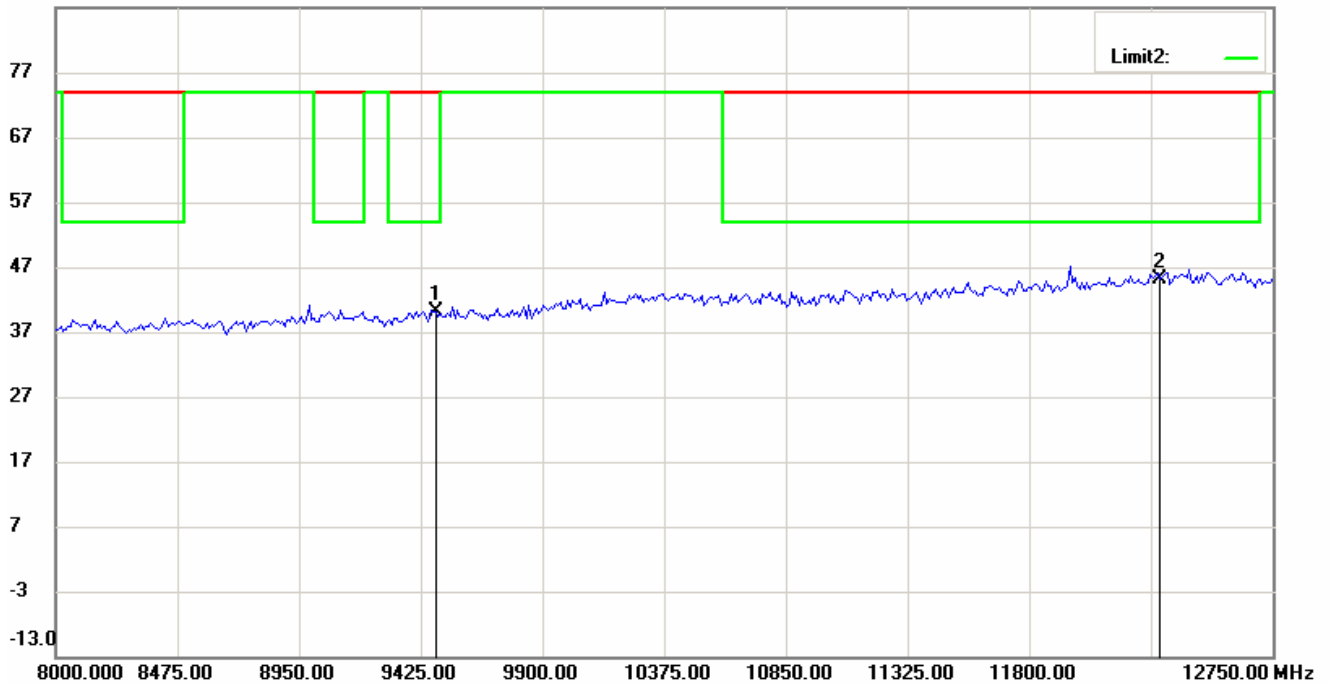
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FCC ID: W5Y-DSSV3

87.0 dBuV/m



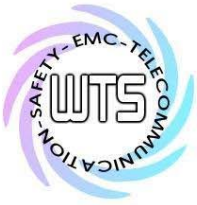
87.0 dBuV/m



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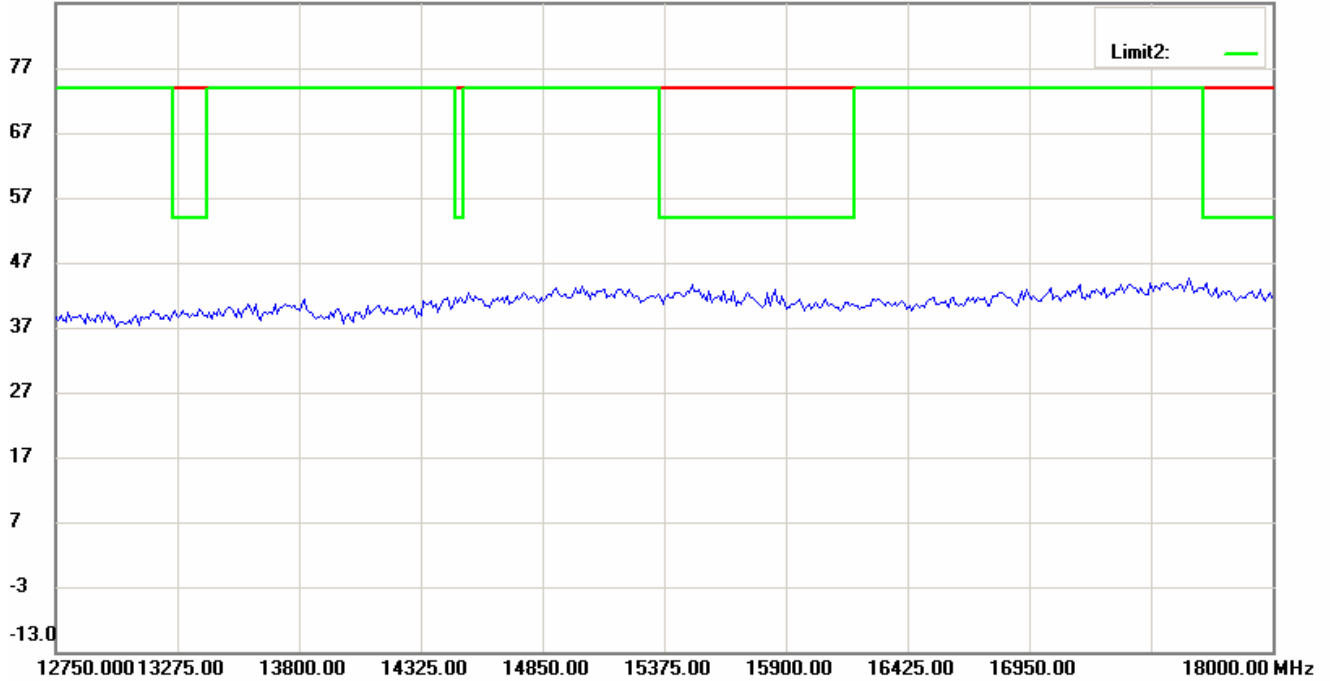


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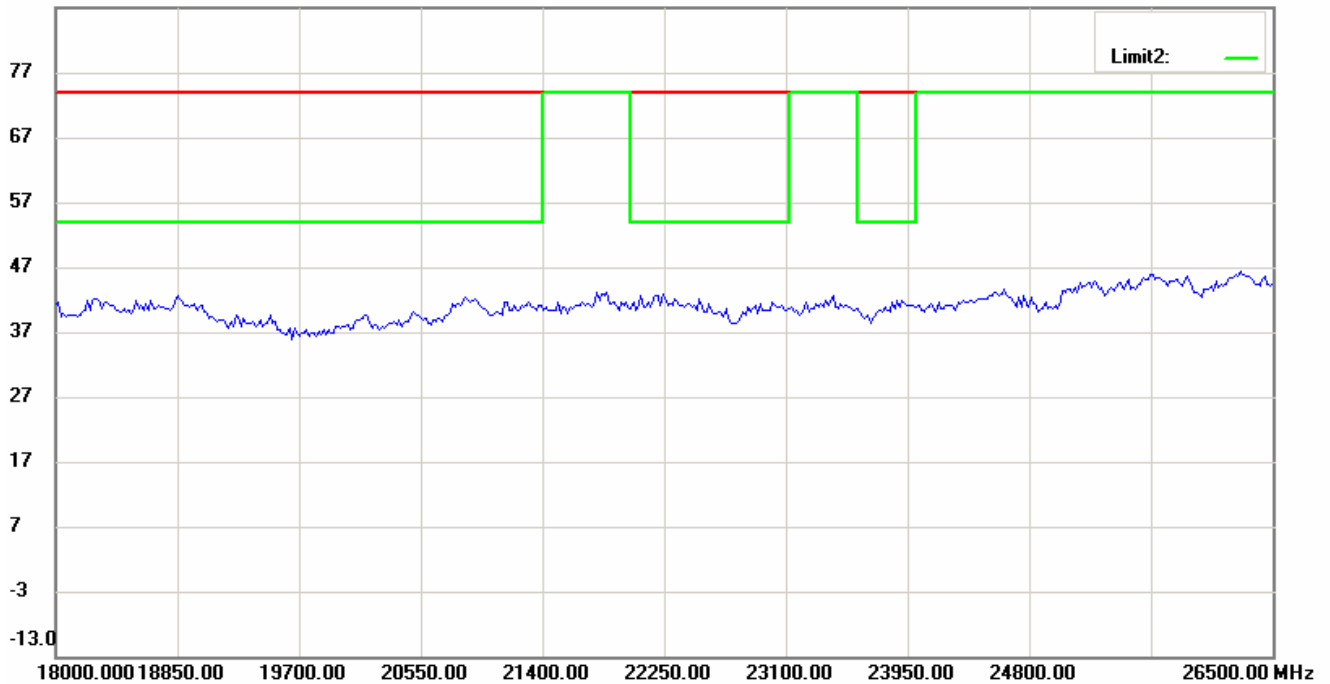
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87.0 dBuV/m



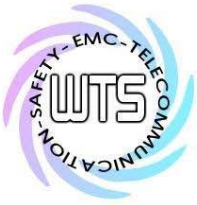
87.0 dBuV/m



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

Note:

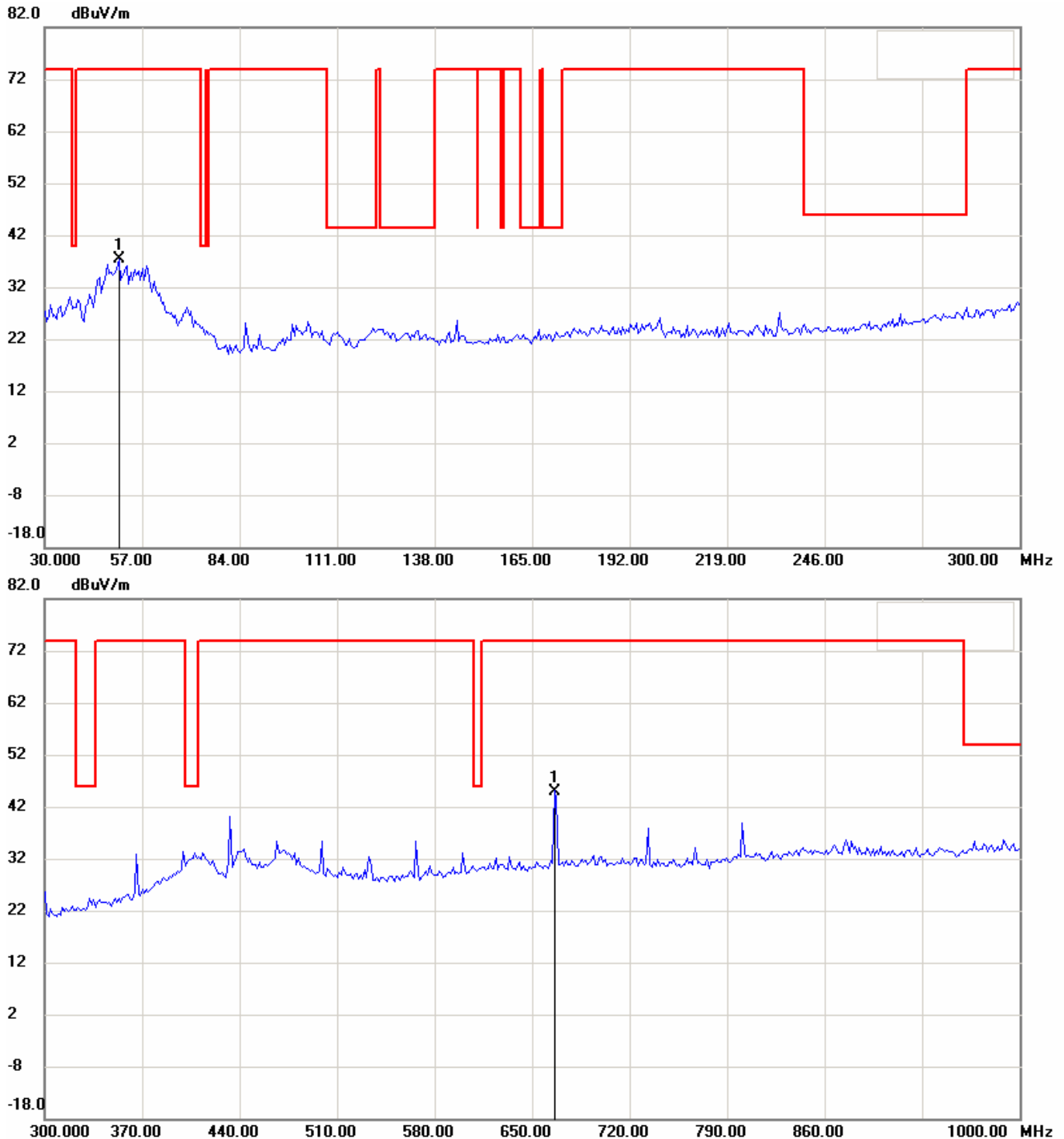
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FCC ID: W5Y-DSSV3

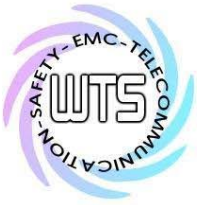
Antenna Polarization V



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

Note:

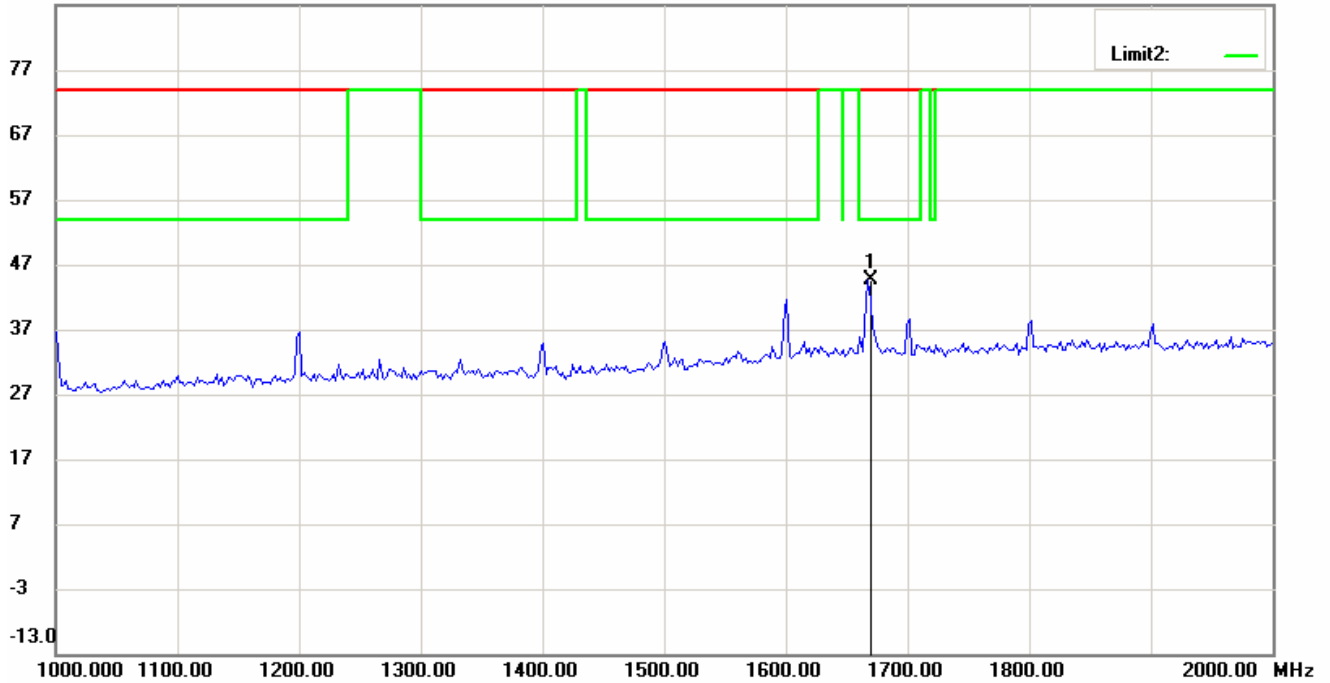
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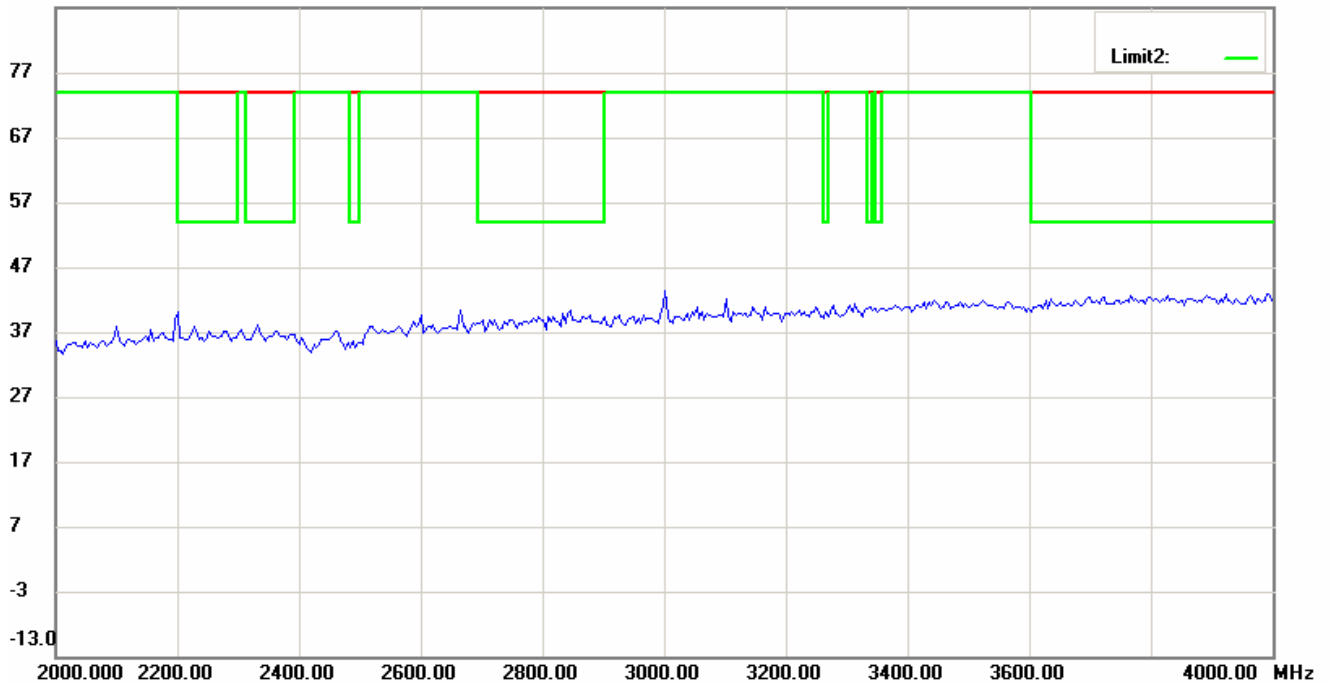
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FCC ID: W5Y-DSSV3

87.0 dBuV/m



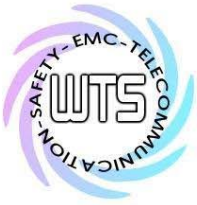
87.0 dBuV/m



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

Note:

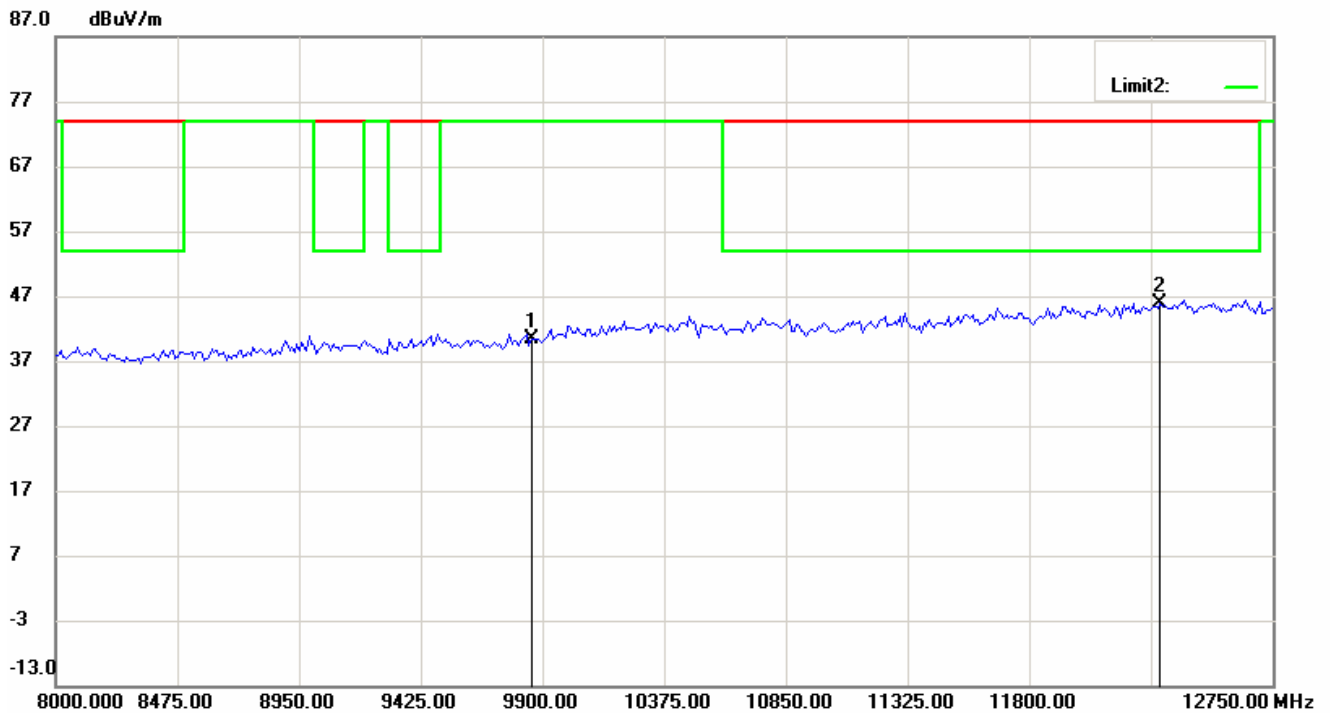
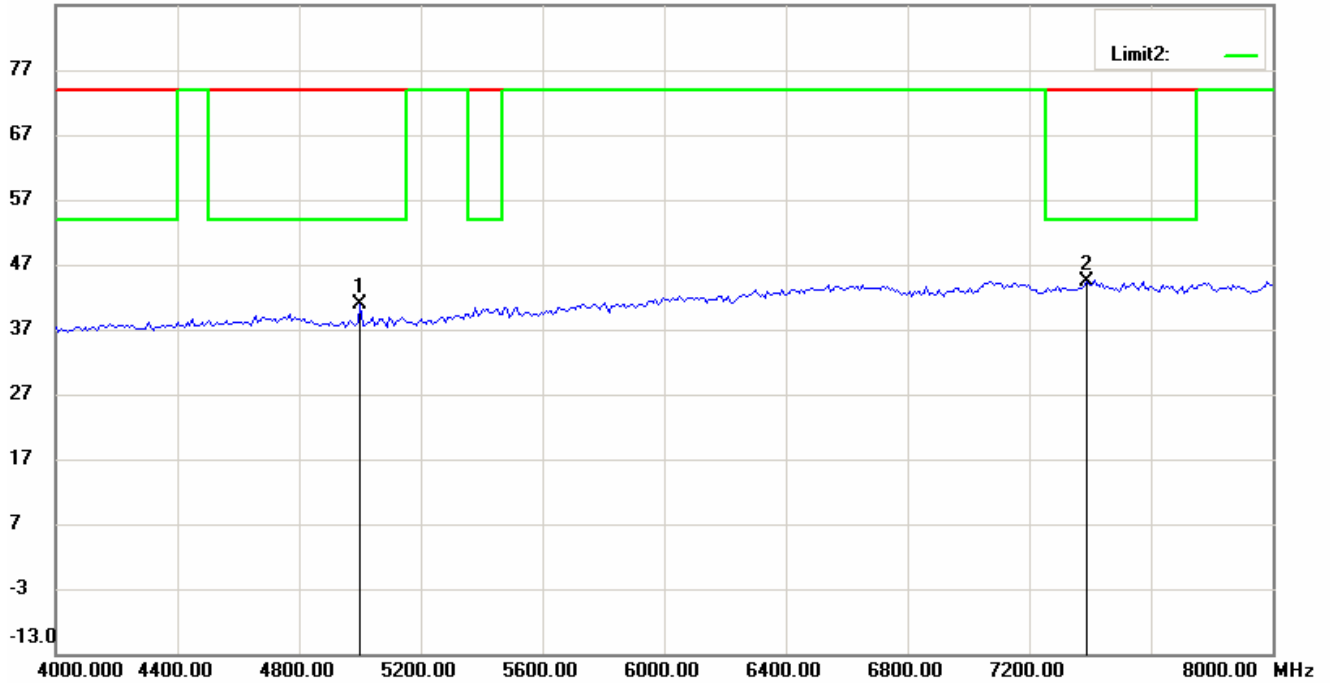
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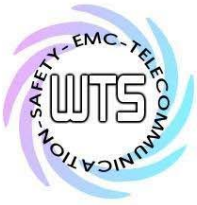
87.0 dBuV/m



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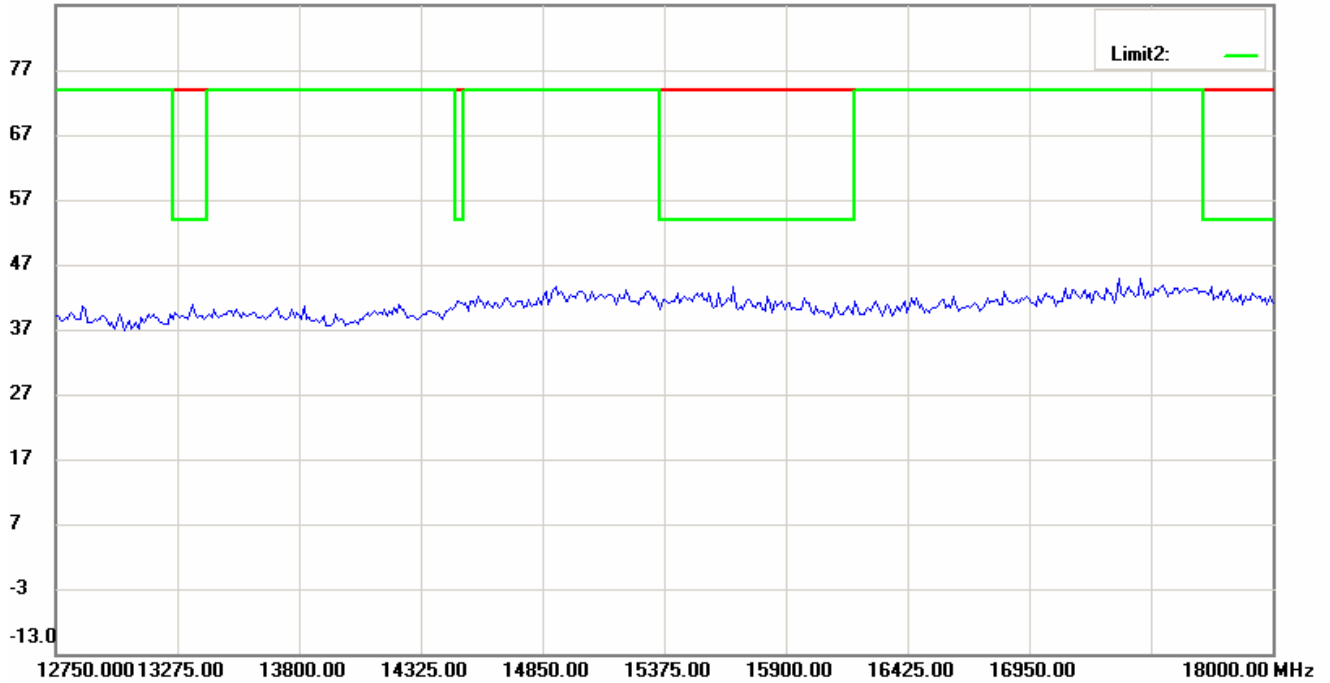


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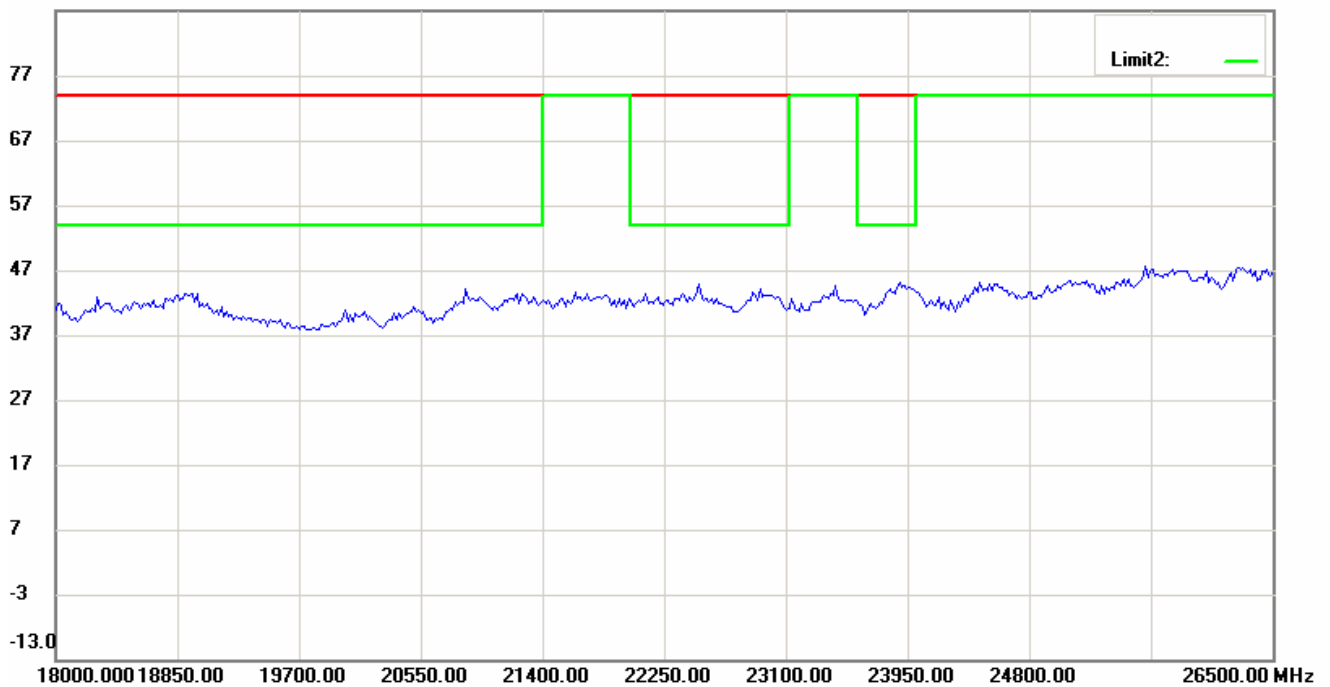
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87.0 dBuV/m



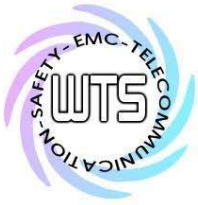
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Up Line: Peak Limit Line Down Line: Ave Limit Line

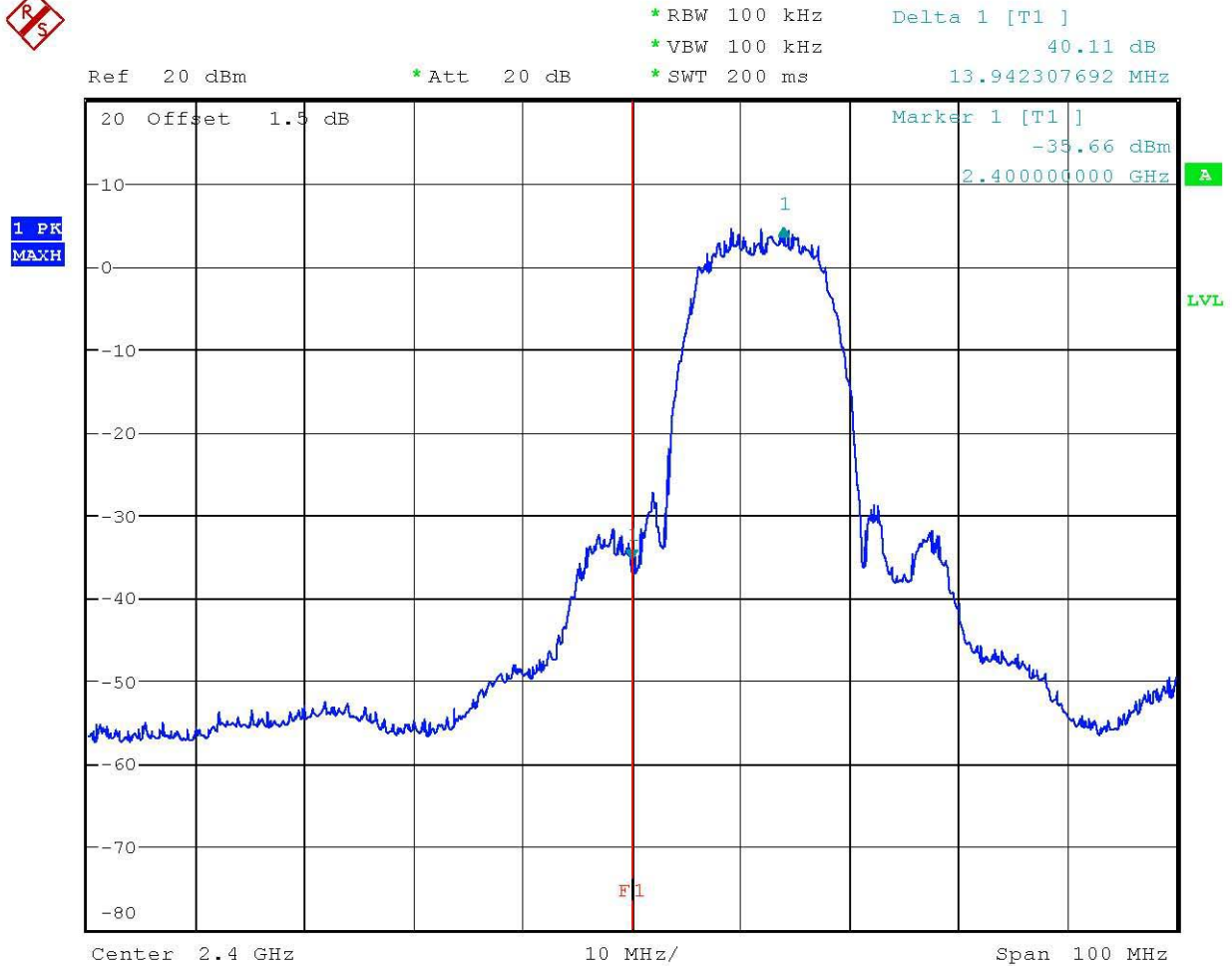
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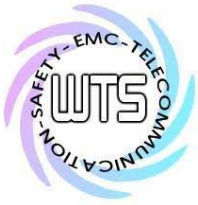
Registration number: W6M20811-9455-C-1
FCC ID: W5Y-DSSV3

Band Edge Measurement



FREQUENCY RANGE 802.11b CH1

Date: 5.DEC.2008 07:57:31



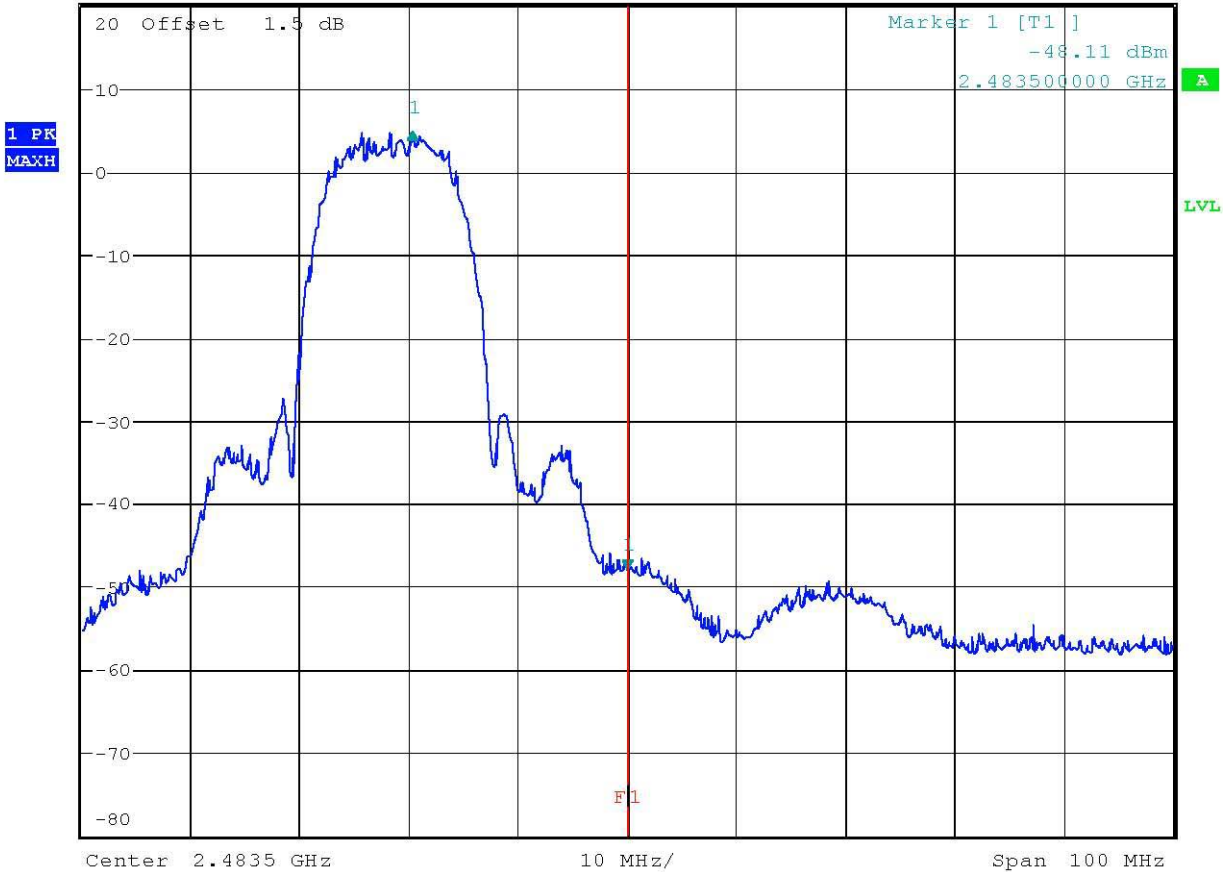
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

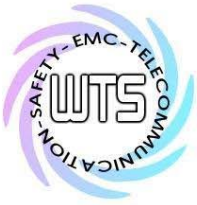


Ref 20 dBm * Att 20 dB * RBW 100 kHz Delta 1 [T1] 52.76 dB
* VBW 100 kHz * SWT 200 ms -19.711538462 MHz



FREQUENCY RANGE 802.11b CH11

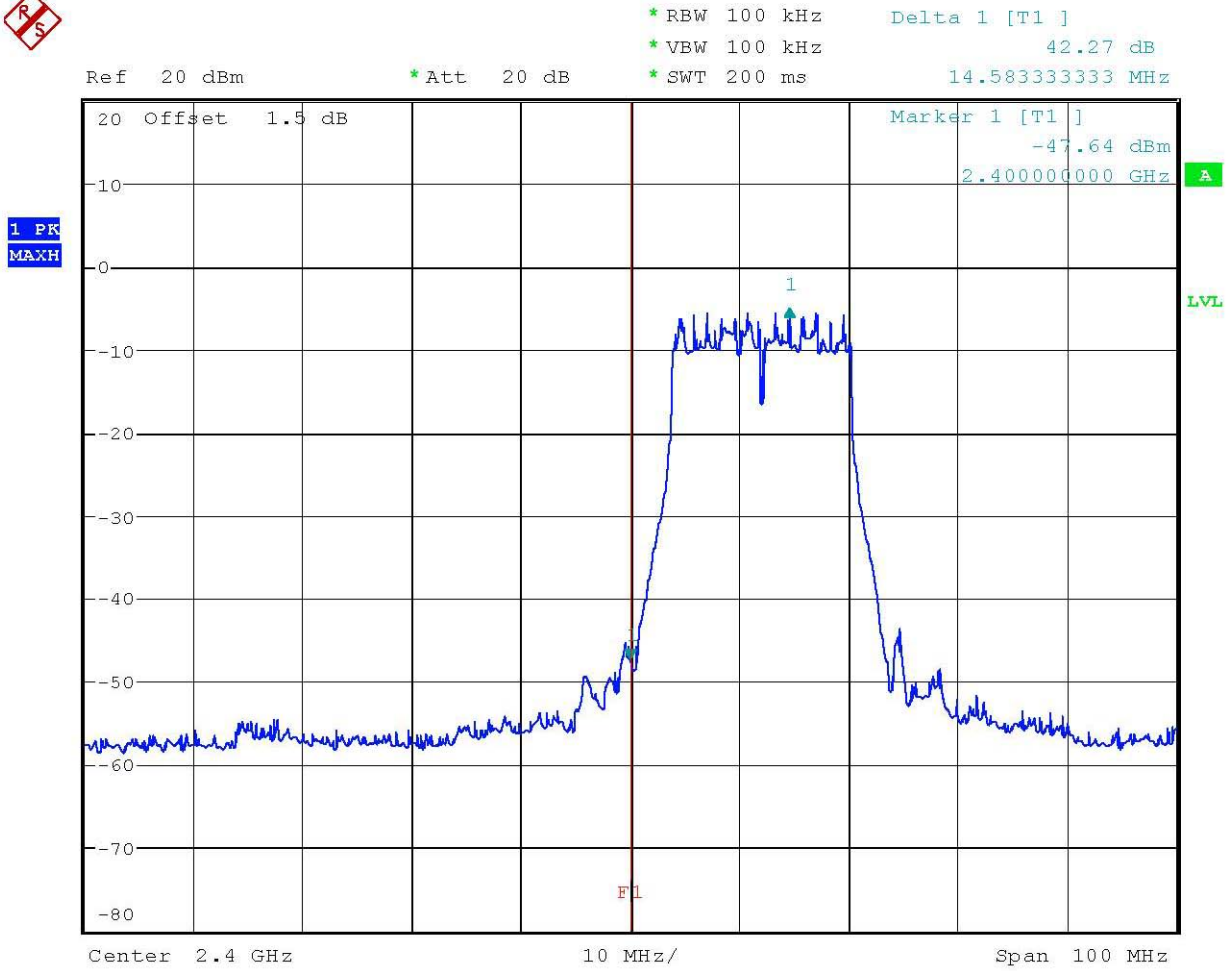
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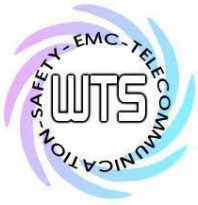
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FCC ID: W5Y-DSSV3



FREQUENCY RANGE 802.11g CH1

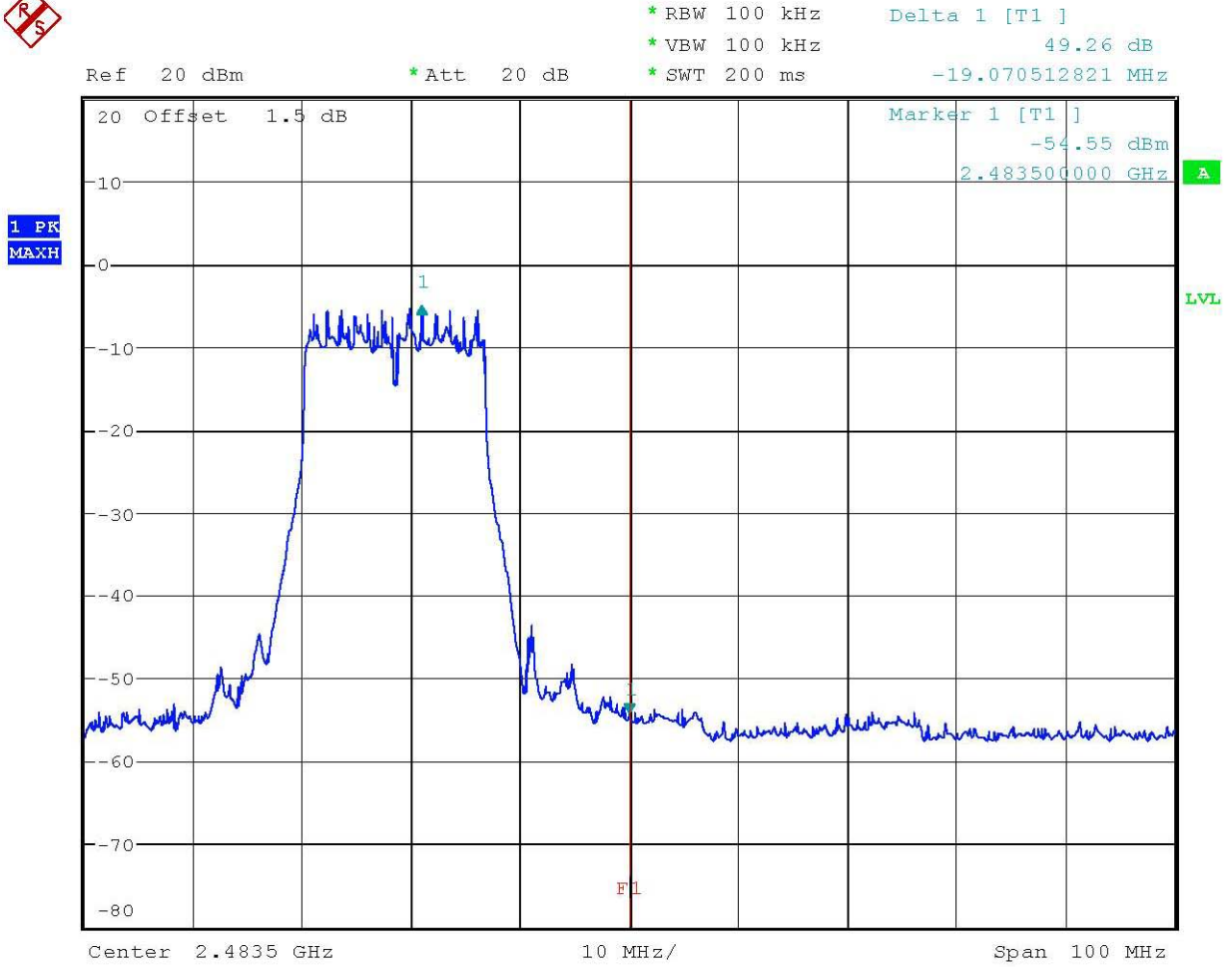
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Worldwide Testing Services(Taiwan) Co., Ltd.

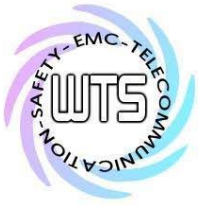
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FCC ID: W5Y-DSSV3



FREQUENCY RANGE 802.11g CH11

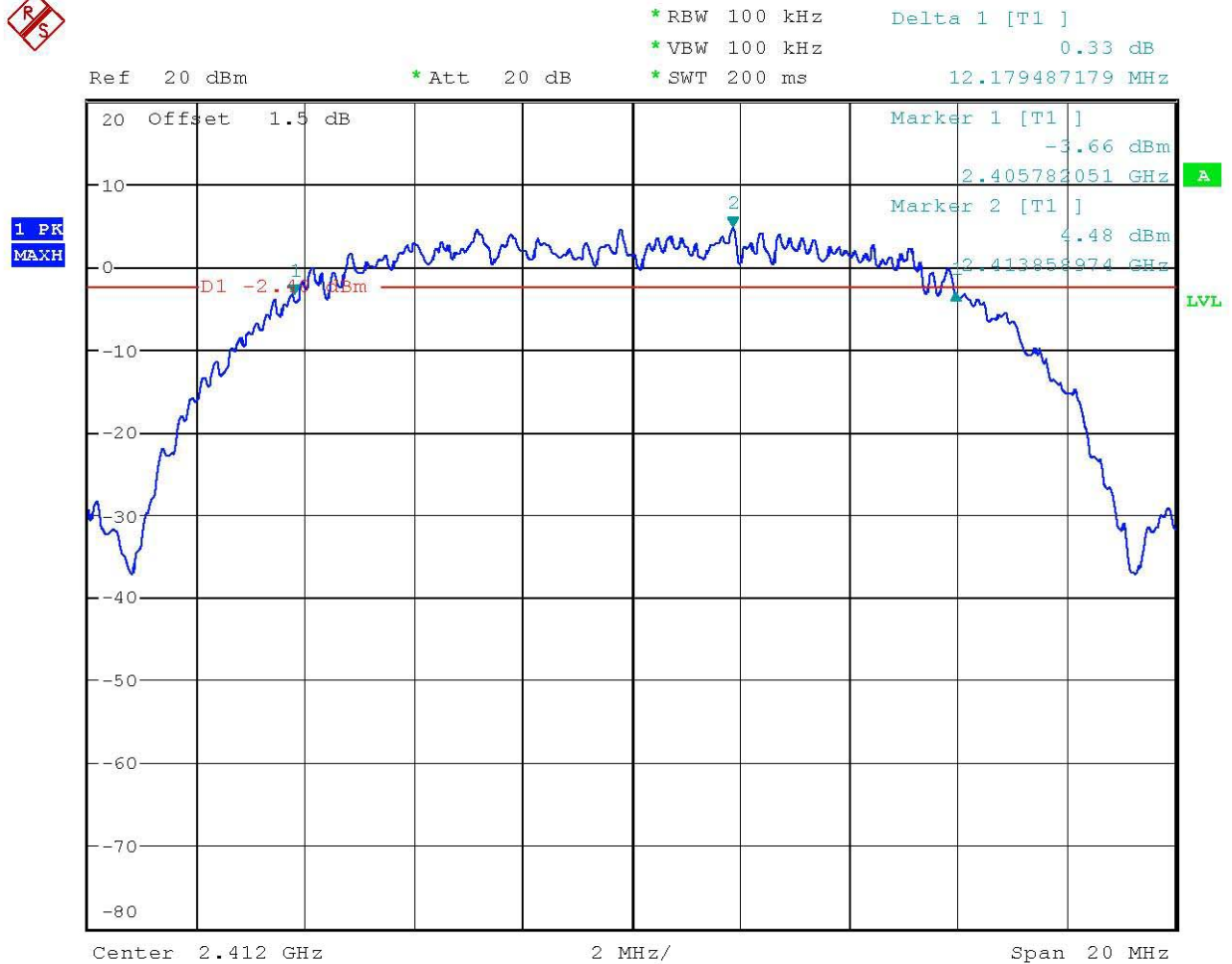
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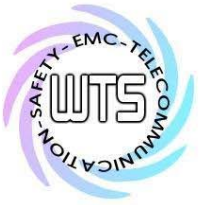
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Minimum 6dB Bandwidth



6dB BANDWIDTH 802.11b CH1

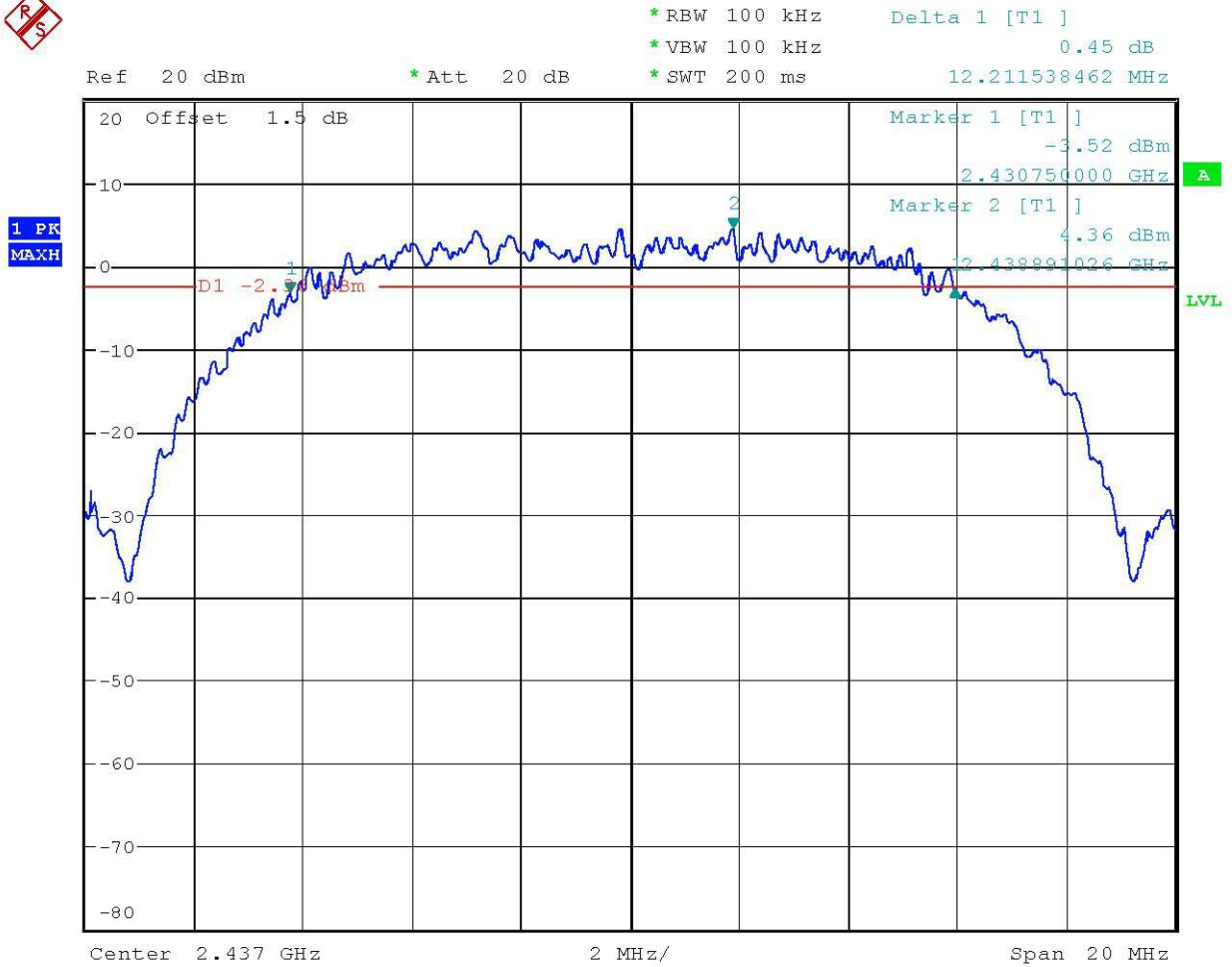
Date: 5.DEC.2008 08:05:31



Worldwide Testing Services (Taiwan) Co., Ltd.

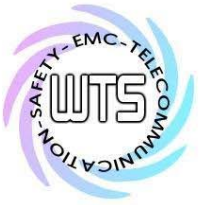
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



6dB BANDWIDTH 802.11b CH6

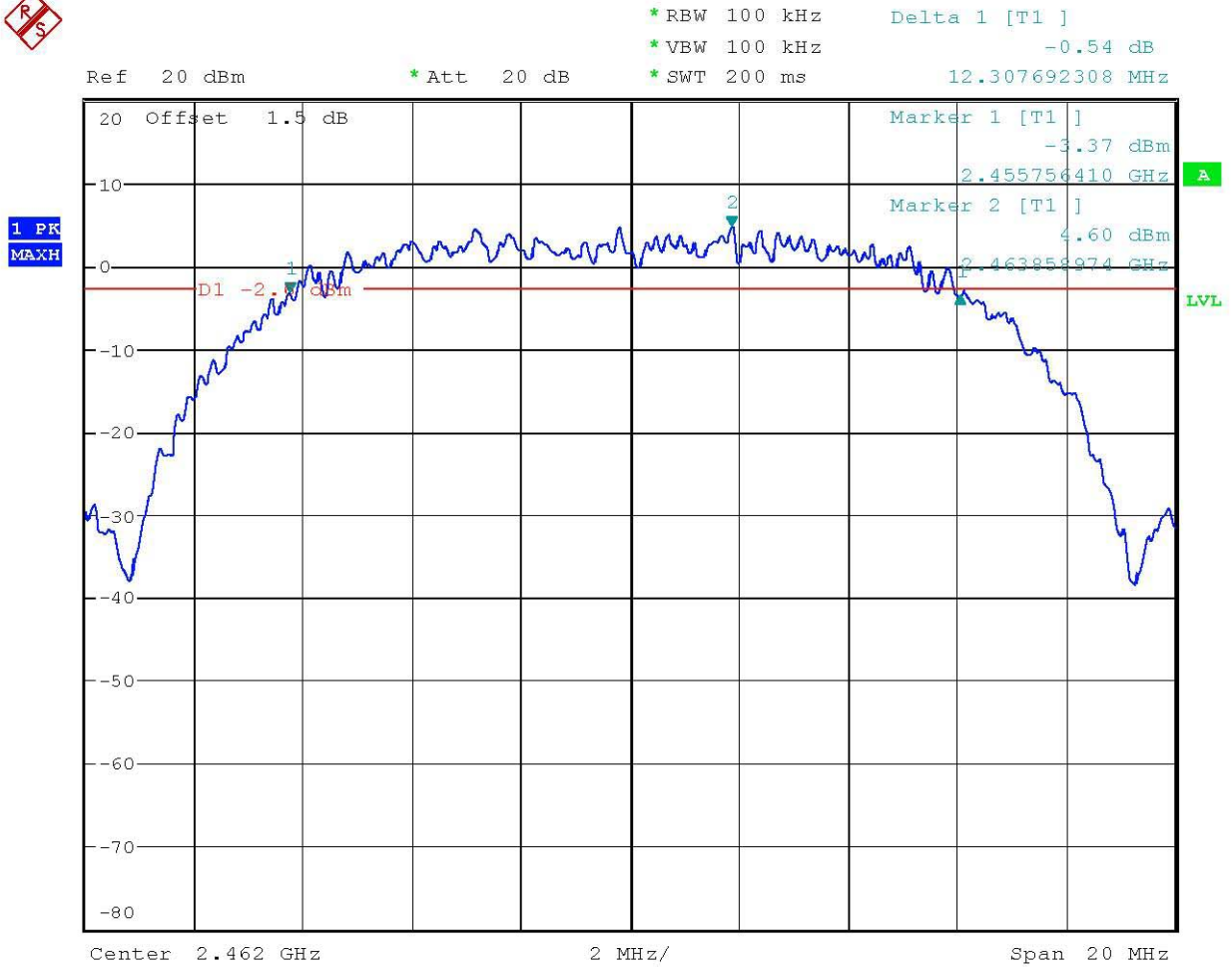
Date: 5.DEC.2008 08:06:51



Worldwide Testing Services (Taiwan) Co., Ltd.

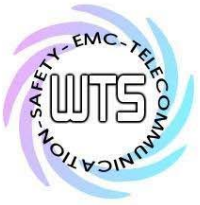
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



6dB BANDWIDTH 802.11b CH11

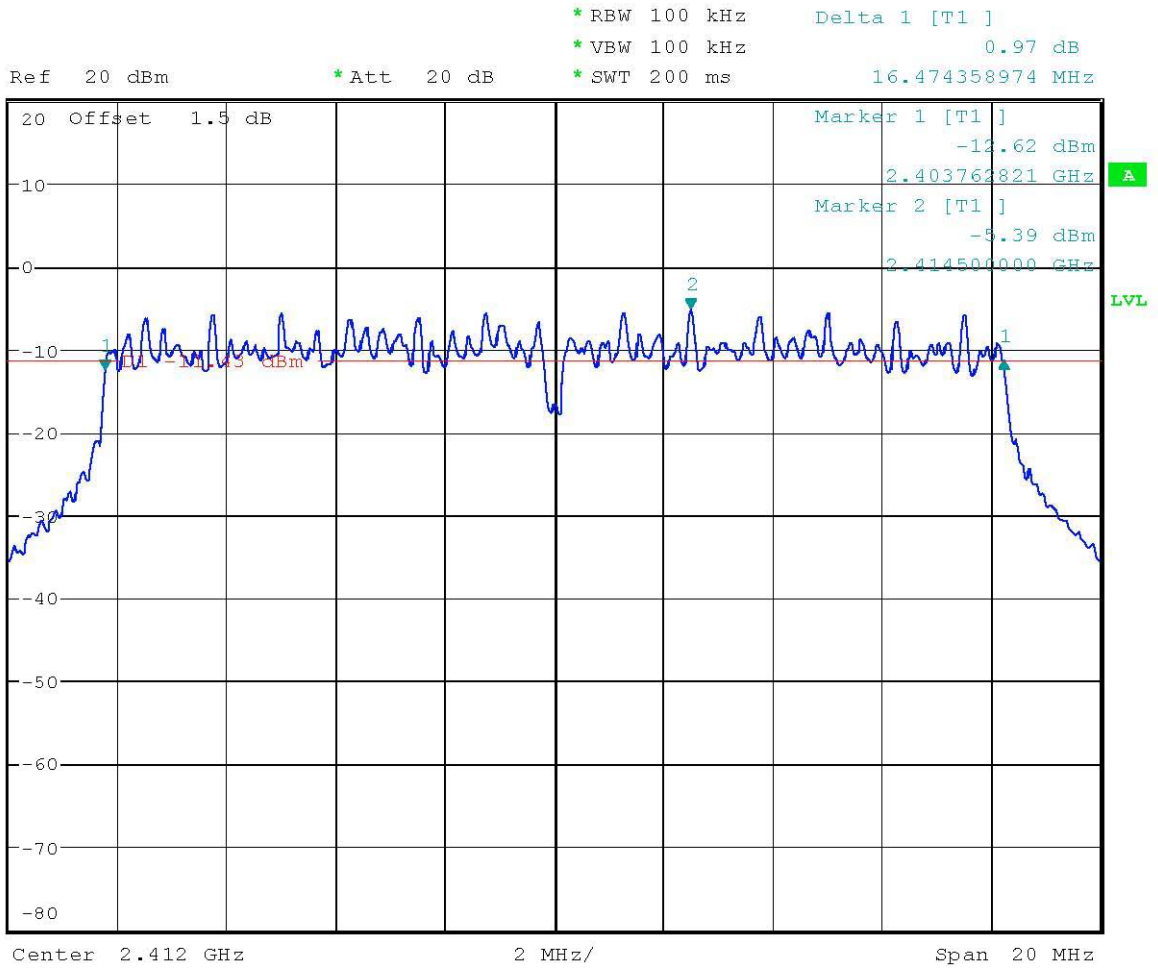
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Worldwide Testing Services (Taiwan) Co., Ltd.

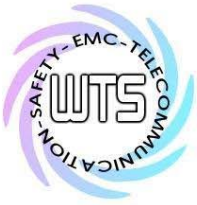
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FCC ID: W5Y-DSSV3



6dB BANDWIDTH 802.11g CH1

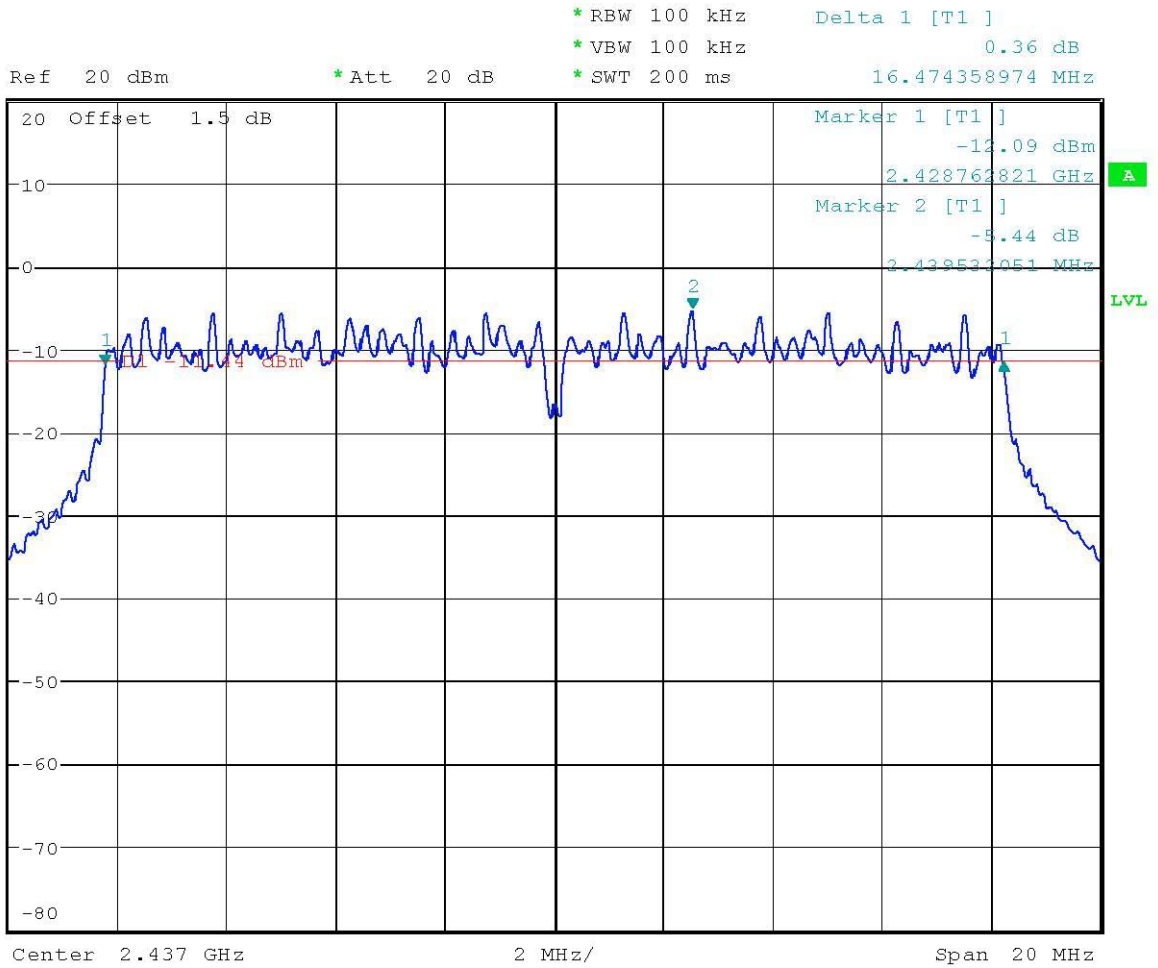
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Worldwide Testing Services(Taiwan) Co., Ltd.

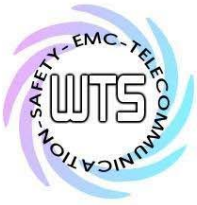
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



6dB BANDWIDTH 802.11g CH6

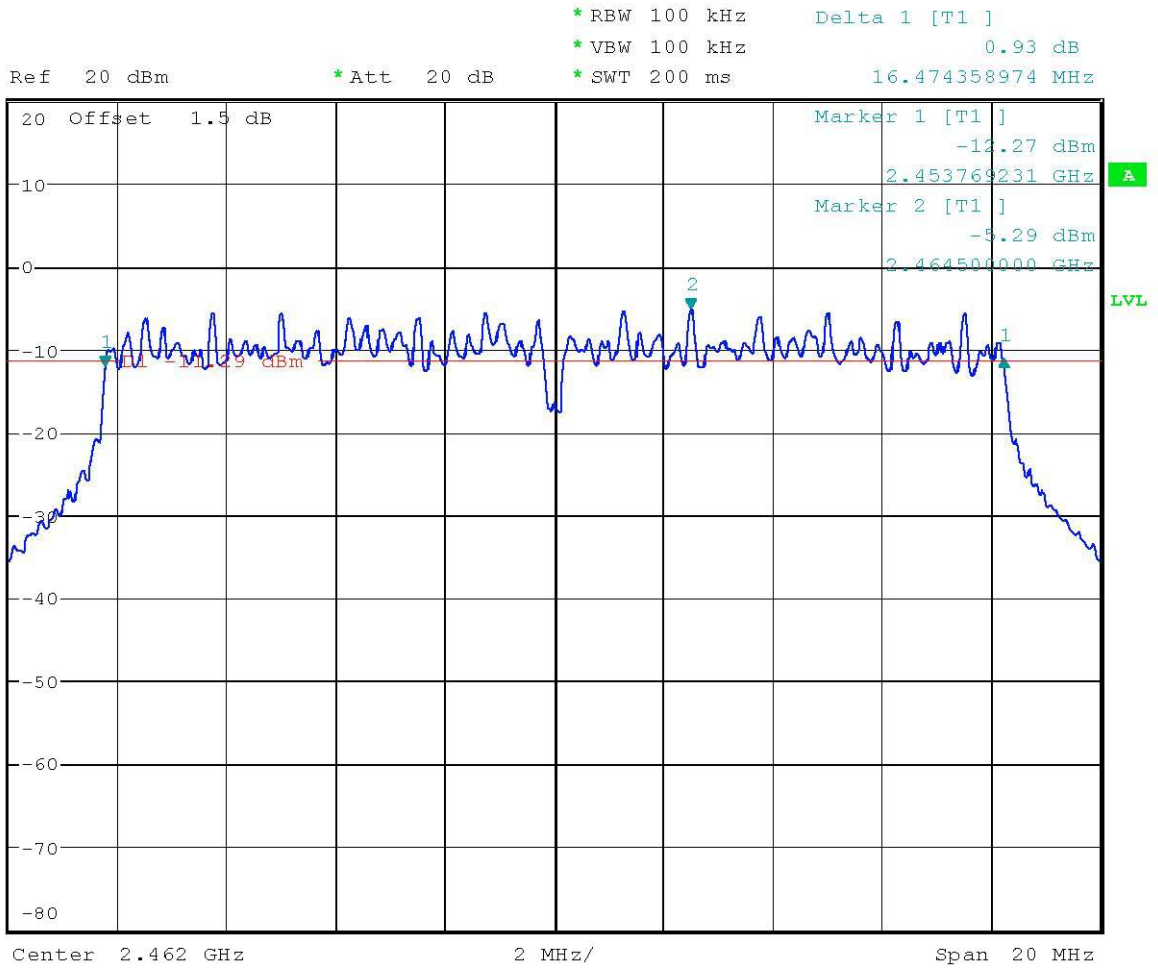
Date: 5.DEC.2008 08:08:24



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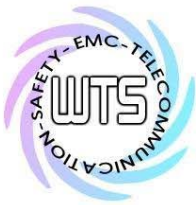
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



6dB BANDWIDTH 802.11g CH11

Date: 5.DEC.2008 08:10:20



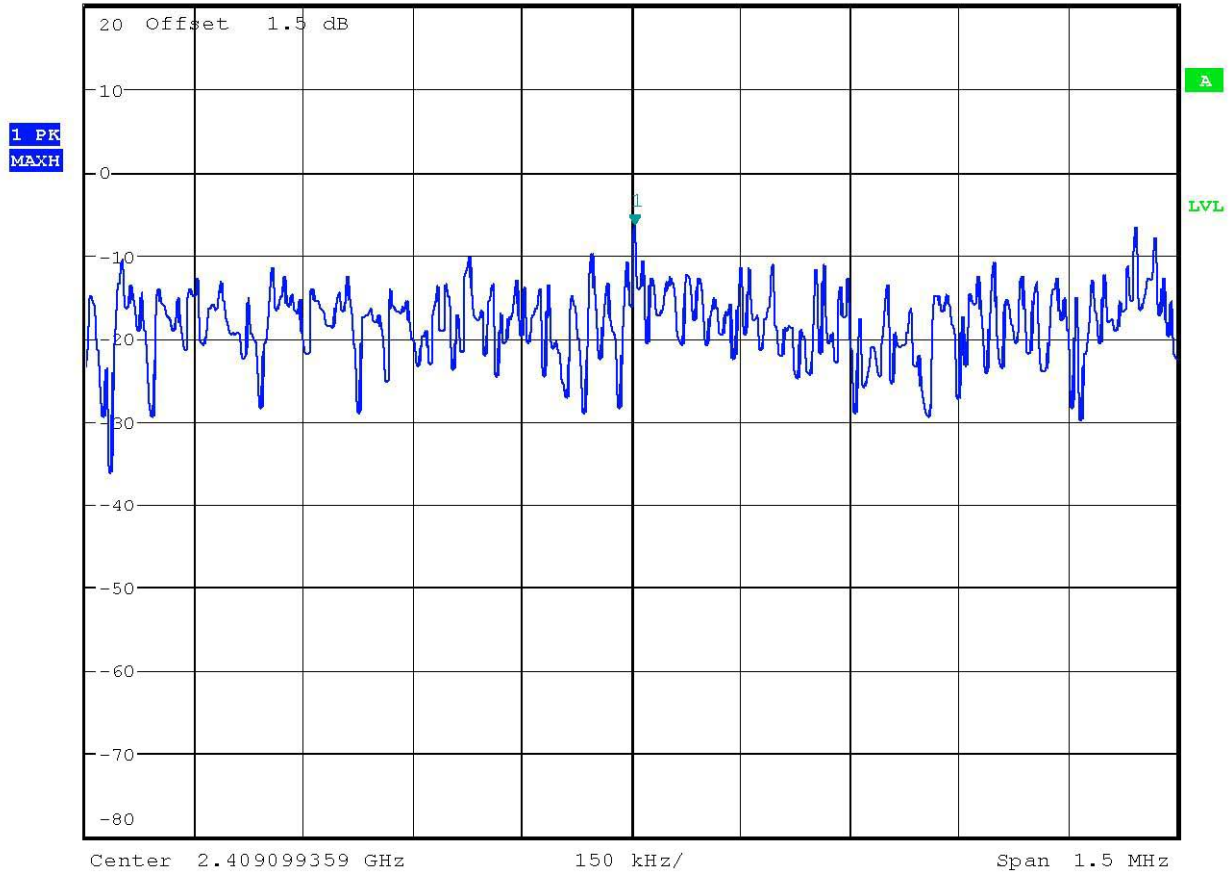
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3

Peak Power Spectral Density

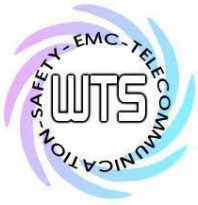


Ref 20 dBm * Att 20 dB * RBW 3 kHz Marker 1 [T1]
 * VBW 100 kHz -6.59 dBm
 * SWT 500 s 2.409104167 GHz



POWER DENSITY 802.11b CH1

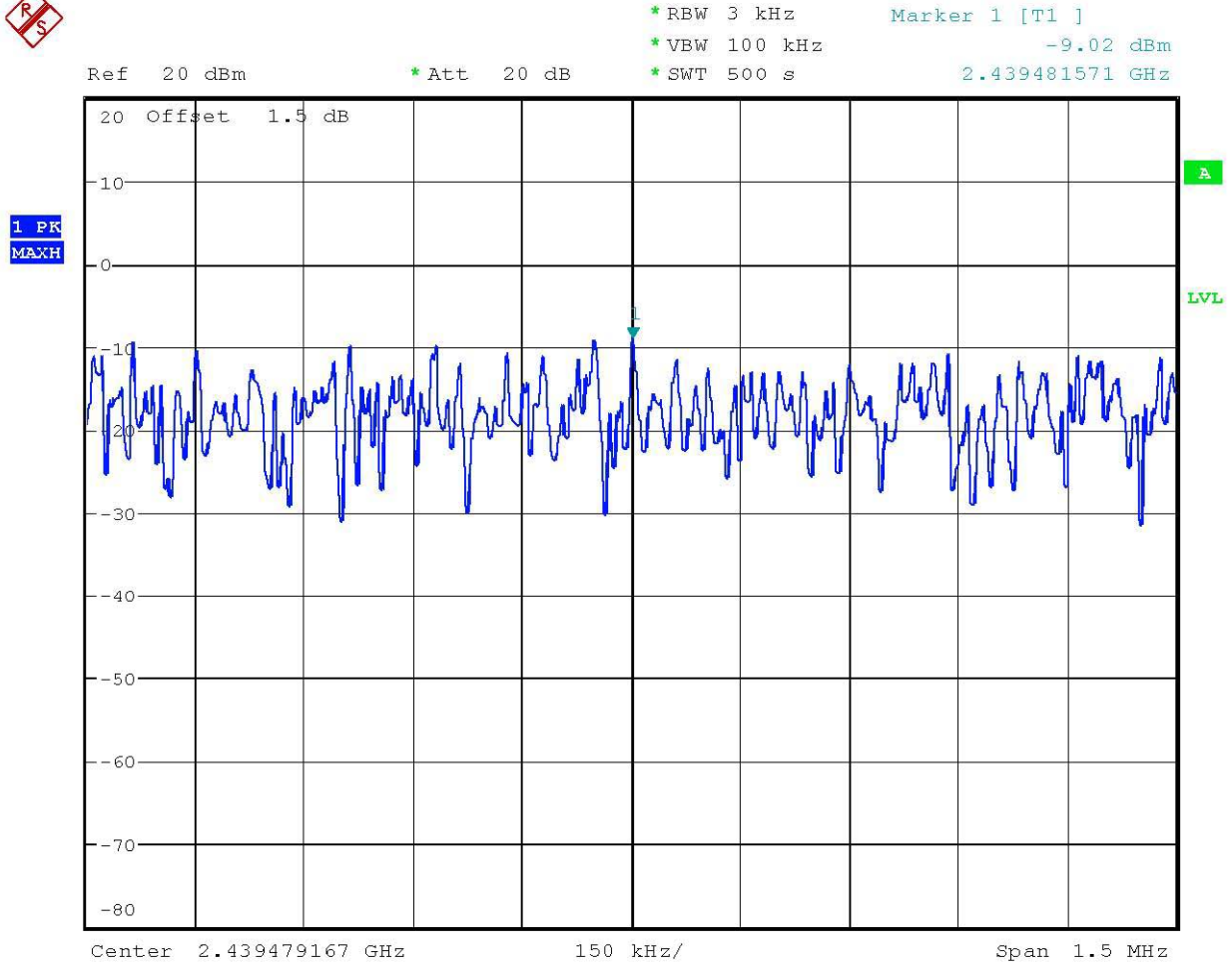
Date: 5.DEC.2008 07:42:11



Worldwide Testing Services(Taiwan) Co., Ltd.

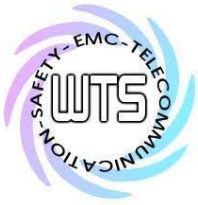
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



POWER DENSITY 802.11b CH6

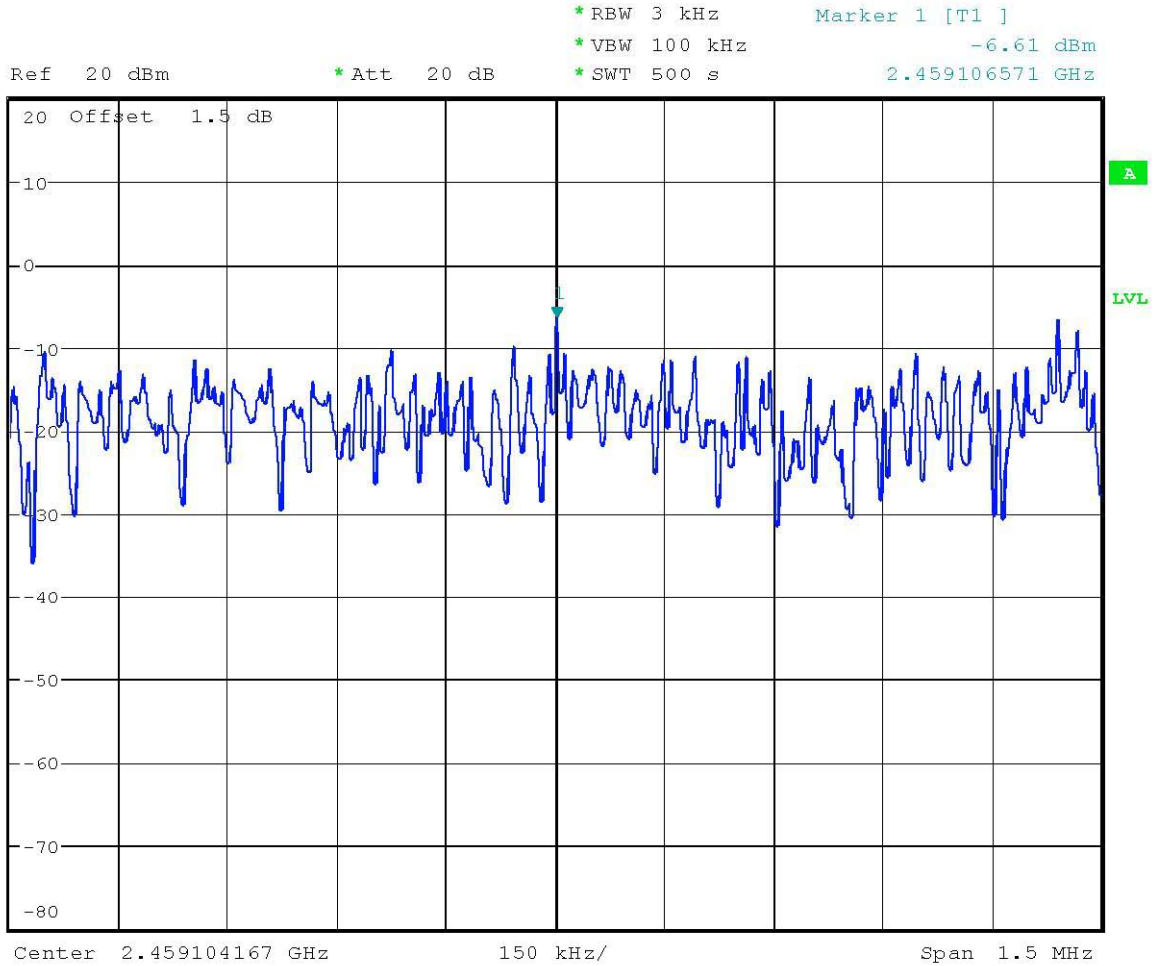
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Worldwide Testing Services(Taiwan) Co., Ltd.

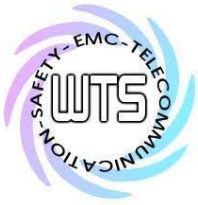
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FCC ID: W5Y-DSSV3



POWER DENSITY 802.11b CH11

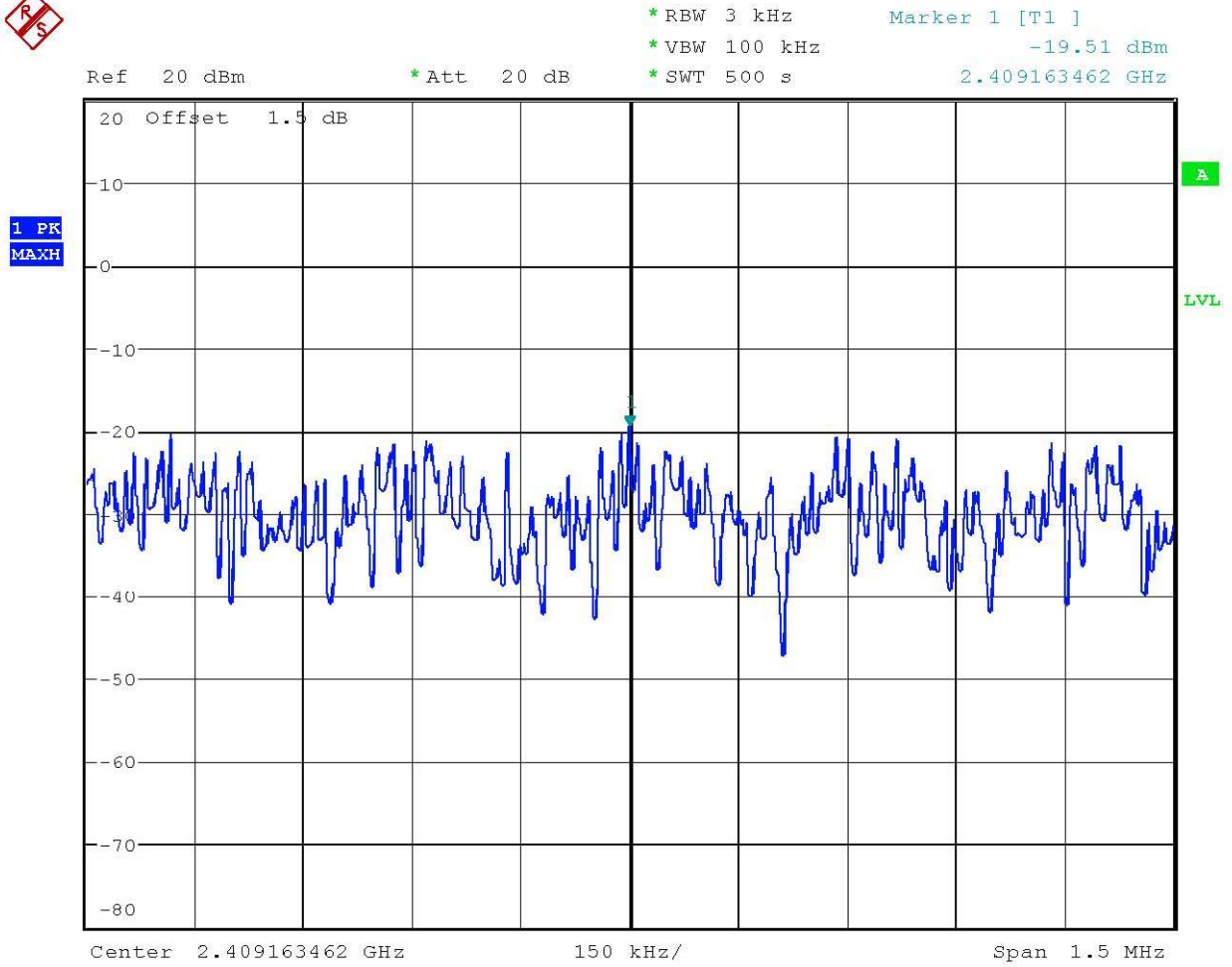
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Worldwide Testing Services(Taiwan) Co., Ltd.

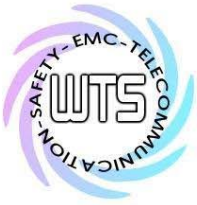
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FCC ID: W5Y-DSSV3



POWER DENSITY 802.11g CH1

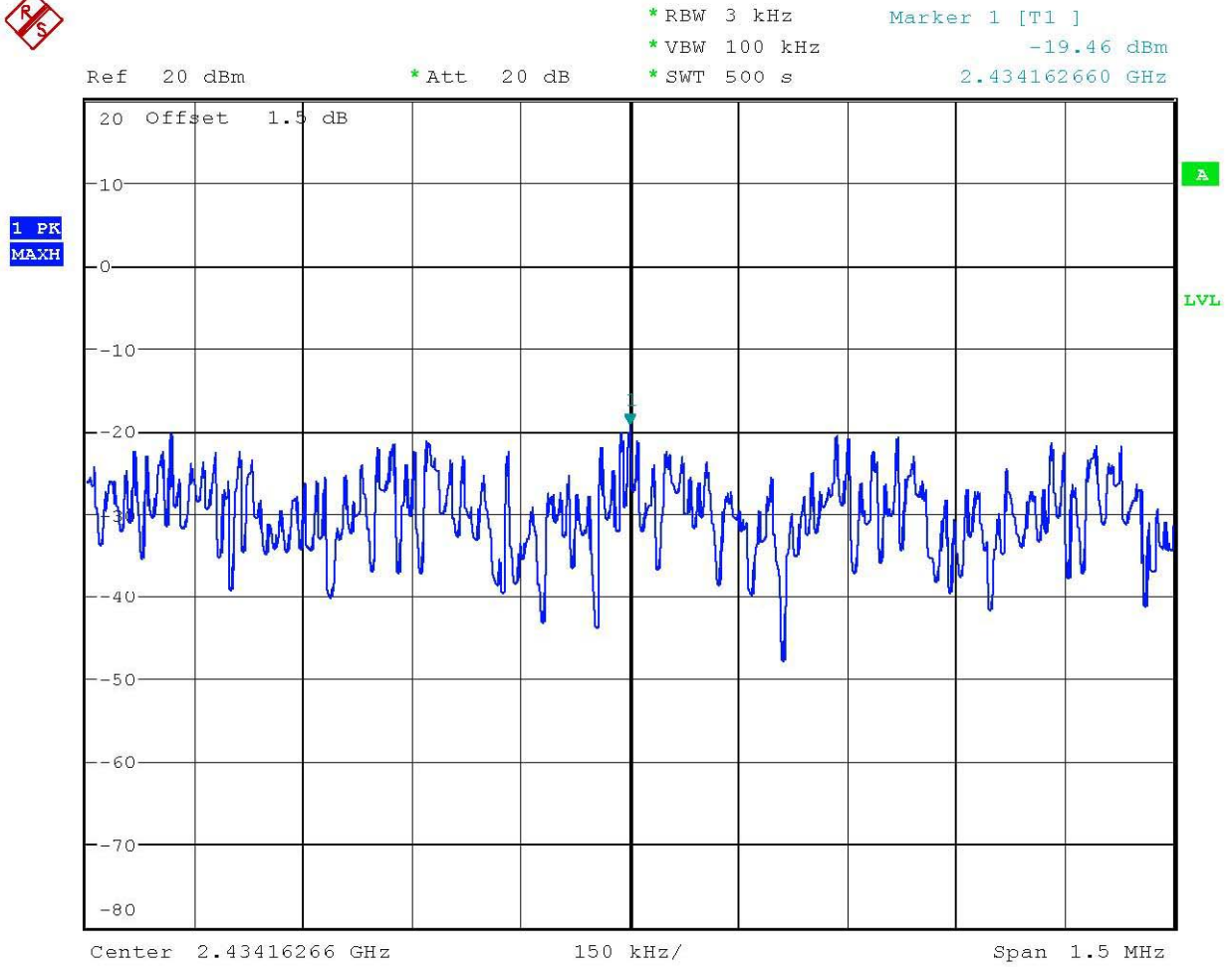
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Worldwide Testing Services(Taiwan) Co., Ltd.

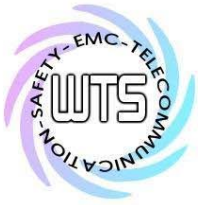
Registration number: W6M20811-9455-C-1

FCC ID: W5Y-DSSV3



POWER DENSITY 802.11g CH6

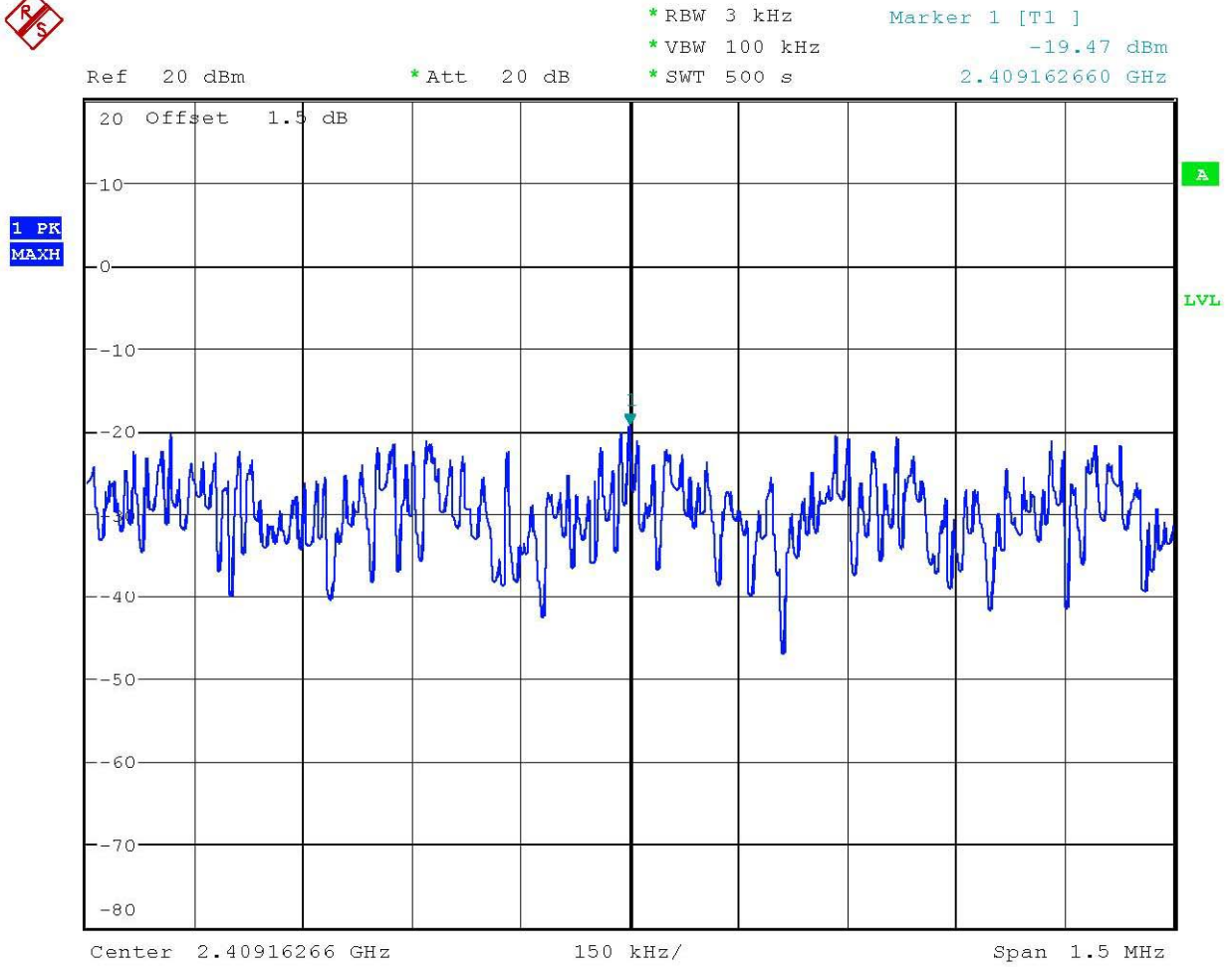
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Worldwide Testing Services(Taiwan) Co., Ltd.

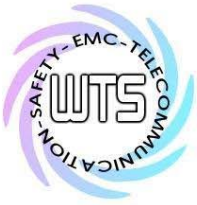
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FCC ID: W5Y-DSSV3



POWER DENSITY 802.11g CH11

Date: 5.DEC.2008 07:35:49

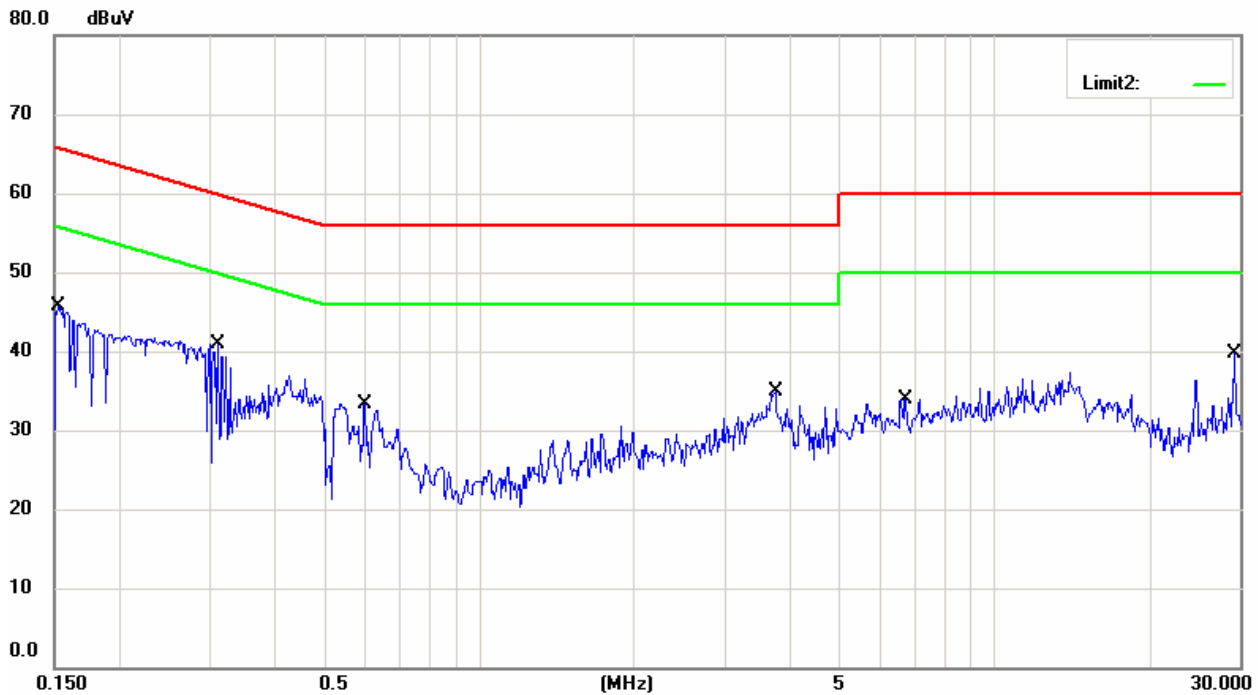


Registration number: W6M20811-9455-C-1

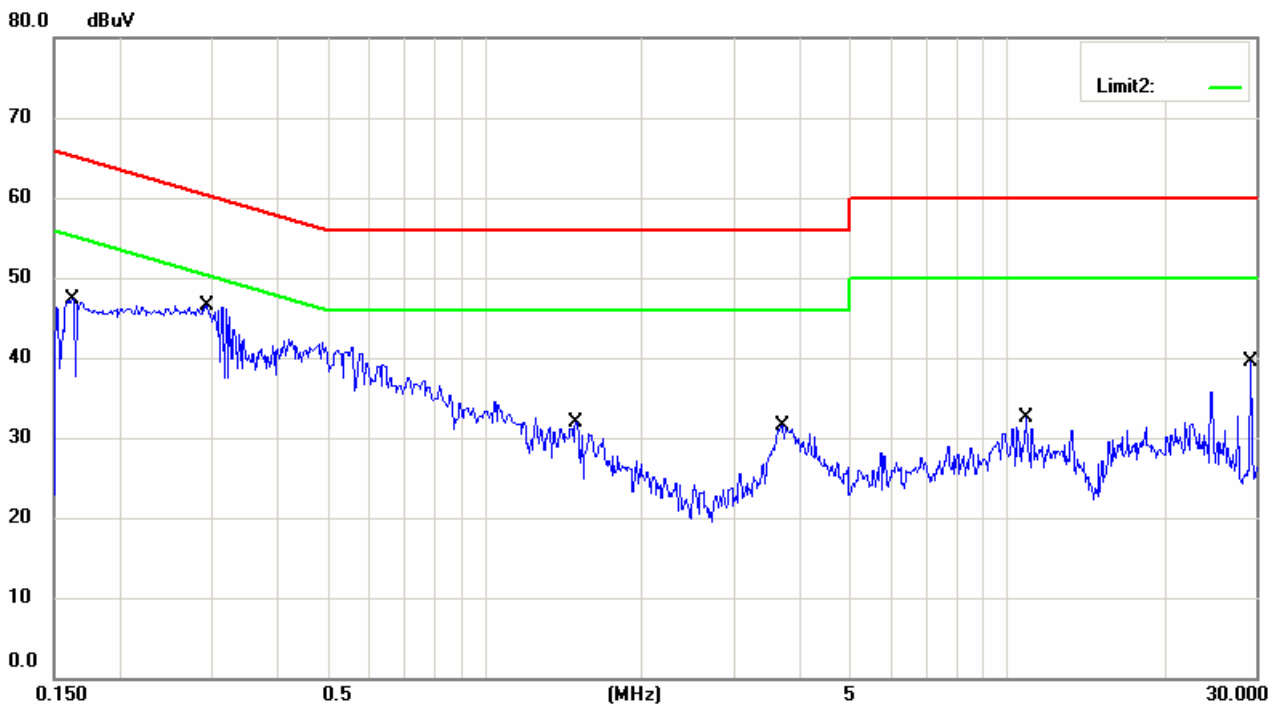
FCC ID: W5Y-DSSV3

Power Line Conducted Emission

LISN N



LISN L1



Up Line: QP Limit Line

Down Line: Ave Limit Line

Note:

1. The plots are pre-scanned data for determining the tested points and for reference only.
2. The exact test result is shown in the data table of AC conducted emission test of this test report.