

FCC PART 15 SUBPART C TEST REPORT

for

Digital Wireless Surveillance System

Model No.: DVC-B22

FCC ID: V94-DVC-B22-B

of

Applicant: ABEL INDUSTRIES INT'L Co., Ltd.
Address: 318, SEC 3. CHANG-NAN RD., CHANGHUA,
TAIWAN, R.O.C.

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

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

A2LA Accredited No.: 2732.01



Report No.: W6M21008-10864-C-1-R

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M21008-10864-C-1-R

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1 General Information

1.1 Notes

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

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

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

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

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

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

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

Tester:

November 11, 2010

Robert Ren

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

November 11, 2010

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



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

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

1.3 Details of approval holder

Name:	ABEL INDUSTRIES INT'L Co., Ltd.
Street:	318, SEC 3. CHANG-NAN RD.,
Town:	CHANGHUA,
Country:	TAIWAN, R.O.C.
Telephone:	+886-3-6583147
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1.4 Application details

Date of receipt of test item: September 27, 2010

Date of test: from September 27, 2010 to November 11, 2010

1.5 General information of Test item

Type of test item: Digital Wireless Surveillance System

Model Number: DVC-B22

Multi-listing model number: ./.

Photos: see Annex

Technical data

Frequency band: 2402 - 2480 MHz

Frequency (ch A): 2402 MHz

Frequency (ch B): 2440 MHz

Frequency (ch C): 2480 MHz

Transmitter

Unom

Normal Mode

Power (ch A or ch 1): Conducted: 8.29 dBm

Power (ch B or ch 20): Conducted: 8.43 dBm

Power (ch C or ch 40): Conducted: 8.51 dBm

Power supply: Adapter (I/P 100 – 240V ~ 50/60Hz, 0.18A
O/P 5Vdc – 1.0A)

Operation modes: duplex

Modulation Type: GFSK

Antenna Type: Dipole antenna

Antenna gain: 1.73 dBi



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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"/>
Modular Radio Device	<input type="checkbox"/>

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

Additional information: ./.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2009-10)



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2 Technical test

2.1 Summary of test results

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



or

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



2.2 Test environment

Temperature: 20 °C ~ 26 °C

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply Adapter (I/P 100 – 240V ~ 50/60Hz, 0.18A
O/P 5Vdc – 1.0A)

Extreme conditions parameters: test voltage : -- extreme
min : -- V
max : -- V



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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	2010/9/2	2011/9/1
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2010/3/2	2011/3/1
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2010/9/8	2011/9/7
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2010/5/8	2011/5/7
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use NCR	
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2010/7/21	2011/7/20
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2010/10/21	2011/10/20
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2010/9/6	2011/9/5
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	Function Test	
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2010/8/10	2011/8/9
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2010/9/14	2011/9/13
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2010/9/2	2011/9/1
ETSTW-RE 006	Attenuator 10dB	50HF-010-5N-1	None	STEP	2010/3/5	2011/3/4
ETSTW-RE 010	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2010/9/6	2011/9/5
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2010/10/4	2011/10/3
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2010/8/20	2011/8/19
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2010/7/22	2011/7/21
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2010/4/14	2011/4/13
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2010/4/14	2011/4/13
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2010/3/2	2011/3/1
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2010/10/4	2011/10/3
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	Function Test	
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2010/10/4	2011/10/3
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2010/5/11	2011/5/10
ETSTW-RE 047	PSA SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	Pre-test Use NCR	
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2010/8/30	2011/8/29
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2010/4/13	2011/4/12
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2010/3/5	2011/3/4



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ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2010/6/3	2011/6/2
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	Pre-test Use NCR	
ETSTW-RE 061	Amplifier Module	CHC 1	None	ETS	2010/9/27	2011/9/26
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2009/11/12	2010/11/11
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 065	Amplifier	AMF-6F-18002650-25-10P	941608	MITEQ	2010/4/13	2011/4/12
ETSTW-RE 066	Highpass Filter	H1G013G1	206015	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2010/10/7	2011/10/6
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2010/1/7	2011/1/6
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2010/1/7	2011/1/6
ETSTW-RE 081	Highpass Filter	H03G13G1	4260-02 DC0428	MICROWAVE CIRCUITS, INC.	2010/3/5	2011/3/4
ETSTW-RE 096	SIGNAL GENERATOR	SMIQ 03B	102274	R&S	2010/5/31	2011/5/30
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2010/3/5	2011/3/4
ETSTW-RE 105	2.4GHz Notch Filter	NO124411	39555	MICROWAVE CIRCUITS, INC.	2010/3/25	2011/3/24
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2010/3/25	2011/3/24
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2010/10/7	2011/10/6
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	Function Test	
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	Function Test	
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	Function Test	
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	Function Test	
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2010/9/20	2011/9/19
ETSTW-Cable 002	Microwave Cable	SUCOFLEX 104 (S Cable 7)	238093	HUBER+SUHNER	2010/9/27	2011/9/26
ETSTW-Cable 003	Microwave Cable	SUCOFLEX 104 (S Cable 11)	209953	HUBER+SUHNER	2010/9/27	2011/9/26
ETSTW-Cable 006	Microwave Cable	SUCOFLEX 104 (S Cable 8)	238095	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	2010/8/19	2011/8/18
ETSTW-Cable 012	BNC Cable	BNC Cable 2	None	JYE BAO CO.,LTD.	2010/8/19	2011/8/18
ETSTW-Cable 013	Microwave Cable	SUCOFLEX 104 (S Cable 5)	232345	HUBER+SUHNER	2010/3/5	2011/3/4
ETSTW-Cable 022	N TYPE Cable	OATS Cable 3	0002	JYE BAO CO.,LTD.	2010/3/5	2011/3/4
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2010/9/13	2011/9/12
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2010/9/13	2011/9/12
ETSTW-Cable 039	Microwave Cable	SUCOFLEX 104 (S Cable 19)	316739	HUBER+SUHNER	2010/3/5	2011/3/4
WTSTW-SW 001	EMI TEST SOFTWARE	Harmonics-1000	None	EMC PARTNER	HARCS Version 4.16 Firmware Version 2.18	



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WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1
WTSTW-SW 003	EMS TEST SOFTWARE	i2	None	AUDIX	Version 3.2007-8-17b
WTSTW-SW 005	GSM Fading Level Correction	GSMFadLevCor	None	R&S	Version 1.66



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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. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

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

$T = 100\text{ms}$ 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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent radiated Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.247	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrier Frequency Separation	15.247(a) (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Hopping Frequencies	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20 dB Bandwidth	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band-edge Compliance of RF Emission	15.247(c)	<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(a)	<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

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).

Test conditions		Conducted Power		
		Channel A [dBm]	Channel B [dBm]	Channel C [dBm]
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	8.29	8.43	8.51

Test conditions		Radiated Power		
		Channel A [dBm]	Channel B [dBm]	Channel C [dBm]
$T_{nom} = \text{--}^{\circ}\text{C}$	$V_{nom} = \text{-- V}$	--	--	--

Test conditions	Signal Field strength TX highest power mode
$T_{nom} = \text{--}^{\circ}\text{C}$, $V_{nom} = \text{-- V}$	dB $\mu\text{V/m}$
Frequency[MHz]	
--	--
Measurement uncertainty	< 3 dB

The diagrams for the field strength measurements are included in Appendix.



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Maximum Peak Output Power

Limits:

Frequency MHz	Number of hopping channels			
	≥ 75	≥ 50	$49 \geq 25$	$74 \geq 15$
902-928		30 dBm	24 dBm	
2400-2483.5 MHz	30 dBm	-		21 dBm
5725-5850 MHz	30 dBm	-		

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.2 RF Exposure Compliance Requirements

According to Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01 this spread spectrum transmitter is categorically excluded from routine environmental evaluation because of the low power level, where there is a high likelihood of compliance with RF exposure standards.

The antenna used for this Bluetooth transceiver module must not be co-located or operating in conjunction with any other antenna or transmitter.

3.3 Out of Band Radiated Emissions

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 below 1GHz :

Max. reading – 20 dB

Guidance on Measurement of FHSS 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.” Here the correction was added to the limit instead subtracted from the reading.

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

For frequencies above 1GHz (Peak measurements).

Limit = max. aver. reading-20dB +20dB(because Peak detector is used)

For frequencies above 1GHz (Average measurements).

Max. reading – 20 dB - duty cycle correction:

No duty cycle correction was added to the reading

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 021, ETSTW-RE 028,
ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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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 26000 MHz.

For radiated emission tests, the analyzer setting was as followings:

RES BW VID BW

Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)

Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)

1 MHz 1 MHz (Average measurements)

Limits:

For frequencies below 1GHz :

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 – 88	100	35.60
88 – 216	150	35.36
216 – 960	200	35.36
Above 960	500	44.55

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of FHSS Systems:

“If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.” Here the correction was added to the limit instead subtracted from the reading.

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

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dB μ V/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dB μ V/m + 20 dB= 74 dB μ V/m

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 064

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))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to 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 an 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 "Marker-Delta-Method" or the „Duty-Cycle Correction Factor“.

Summary table with radiated data of the test plots

Model: DVC-B22 Date: 2010/10/27
 Mode: 2402MHz Temperature: 21.6 °C Engineer: Robert
 Polarization: Horizontal Humidity: 58 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	23.87	peak	15.01	38.88	43.50	-4.62	200	150
335.0701	19.75	peak	17.04	36.79	46.00	-9.21	100	150
995.7916	9.94	peak	29.17	39.11	54.00	-14.89	230	150

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.			
4804.0000	46.79	---	-4.97	41.82	---	74.00	54.00	-32.18	190	150
7206.0000	47.44	---	-2.21	45.23	---	74.00	54.00	-28.77	100	150
9608.0000	30.41	---	13.01	43.42	---	74.00	54.00	-30.58	280	150



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Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	24.51	peak	15.01	39.52	43.50	-3.98	160	150
969.1382	7.28	peak	28.82	36.10	54.00	-17.90	210	150
991.5832	11.93	peak	29.11	41.04	54.00	-12.96	160	150

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.			
4804.0000	46.95	---	-4.97	41.98	---	74.00	54.00	-32.02	250	150
7206.0000	48.23	---	-2.21	46.02	---	74.00	54.00	-27.98	130	150
9608.0000	30.99	---	13.01	44.00	---	74.00	54.00	-30.00	210	150

Mode: 2440MHz

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	23.46	peak	15.01	38.47	43.50	-5.03	200	150
335.0701	19.06	peak	17.04	36.10	46.00	-9.90	210	150
991.5832	10.48	peak	29.11	39.59	54.00	-14.41	100	150

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.			
4880.0000	47.16	---	-4.85	42.31	---	74.00	54.00	-31.69	160	150
7320.0000	48.14	---	-2.80	45.34	---	74.00	54.00	-28.66	100	150
9760.0000	31.96	---	12.85	44.81	---	74.00	54.00	-29.19	230	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	24.79	peak	15.01	39.80	43.50	-3.70	100	150
325.2506	15.30	peak	16.79	32.09	46.00	-13.91	100	150
992.9860	8.93	peak	29.13	38.06	54.00	-15.94	210	150

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.			
4880.0000	46.35	---	-4.85	41.50	---	74.00	54.00	-32.50	100	150
7320.0000	47.59	---	-2.80	44.79	---	74.00	54.00	-29.21	260	150
9760.0000	29.80	---	12.85	42.65	---	74.00	54.00	-31.35	190	150



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Mode: 2480MHz
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	24.01	peak	15.01	39.02	43.50	-4.48	100	150
335.0701	20.04	peak	17.04	37.08	46.00	-8.92	190	150
992.9860	9.96	peak	29.13	39.09	54.00	-14.91	200	150

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.			
4960.0000	46.16	---	-5.00	41.16	---	74.00	54.00	-32.84	240	150
7440.0000	48.11	---	-3.19	44.92	---	74.00	54.00	-29.08	160	150
9920.0000	30.60	---	13.28	43.88	---	74.00	54.00	-30.12	240	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
167.9760	24.80	peak	15.01	39.81	43.50	-3.69	250	150
335.0701	13.97	peak	17.04	31.01	46.00	-14.99	200	150
992.9860	8.85	peak	29.13	37.98	54.00	-16.02	310	150

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.			
4960.0000	46.86	---	-5.00	41.86	---	74.00	54.00	-32.14	140	150
7440.0000	48.72	---	-3.19	45.53	---	74.00	54.00	-28.47	260	150
9920.0000	30.60	---	13.28	43.88	---	74.00	54.00	-30.12	170	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.

All other not noted test plots do not contain significant test results in relation to the limits.

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 064



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3.6 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.

Test conditions		Channel Separation	
		Channel 1	Channel 1+1
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	2.000000000 MHz	

Test conditions		Channel Separation	
		Channel 20	Channel 20+1
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	2.000000000 MHz	

Test conditions		Channel Separation	
		Channel 40	Channel 40-1
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	2.000000000 MHz	

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.7 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.

Test conditions		Operating Mode	Number of Channels
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	normal transmitting	40

Limits:

Frequency Range MHz	Limit	
	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth $\geq 250\text{ kHz}$	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.8 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.

In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test conditions	Operating mode	Measurement period	Time of Occupancy
T _{nom} = 23°C V _{nom} = 120 V Channel 1	normal transmitting	16 s	3.757 ms

Test conditions	Operating mode	Measurement period	Time of Occupancy
T _{nom} = 23°C V _{nom} = 120 V Channel 20	normal transmitting	16 s	3.757 ms

Test conditions	Operating mode	Measurement period	Time of Occupancy
T _{nom} = 23°C V _{nom} = 120 V Channel 40	normal transmitting	16 s	3.808 ms

Limits and measurement periods:

Frequency MHz	Number of channels	Measurement Period	Limit
902 – 928	≥ 50	20 s	0.4 s
	49 ≥ 25	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix, which show the On-time and the number of counted events during the measurement period.



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3.9 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.

The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.

Test conditions		20 dB Bandwidth		
		Channel A	Channel B	Channel C
$T_{nom} = 23^{\circ}C$	$V_{nom} = 120 V$	1.522435897 MHz	1.522435897 MHz	1.514423077 MHz

Limits:

Frequency Range / MHz	Limit
902-928	$\leq 500 \text{ kHz}$
2400-2483.5	not defined
5725-5850	$\leq 1 \text{ MHz}$

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.10 Band-edge Compliance of RF Emissions

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.

Test conditions		Attenuation at or outside band-edges Single Frequency	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	35.34 dB	44.08 dB

Test conditions		Attenuation at or outside band-edges Hopping Frequency	
		Lower Band-edge	Upper Band-edge
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120\text{ V}$	35.27 dB	44.24 dB

Limits:

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Explanation: See attached diagrams in appendix.



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3.11 Radiated Emissions from Digital Part

FCC Rule: 15.109

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

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

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 028, ETSTW-RE 029, ETSTW-RE 030, ETSTW-RE 044, ETSTW-RE 064

Explanation: The test results are listed in the separated test report no. W6M21008-10864-P-15B.



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3.12 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.

Frequency	Level (dBμV)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

Model: DVC-B22 Date: 2010/10/28
 Mode: AV MODE Temperature: 24 °C Engineer: Robert
 Polarization: N Humidity: 60 %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1866	26.47	13.02	10.76	37.23	23.78	64.19	54.19	-26.96
0.4670	26.71	13.48	10.64	37.35	24.12	56.57	46.57	-19.22
0.5163	26.55	13.48	10.66	37.21	24.14	56.00	46.00	-18.79
0.8564	20.93	8.44	10.46	31.39	18.90	56.00	46.00	-24.61
1.7743	19.89	8.29	10.15	30.04	18.44	56.00	46.00	-25.96
2.9448	21.15	9.80	10.12	31.27	19.92	56.00	46.00	-24.73

Polarization: L1

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.2034	26.29	9.18	10.78	37.07	19.96	63.47	53.47	-26.40
0.4687	25.26	11.00	10.64	35.90	21.64	56.54	46.54	-20.64
0.5226	25.94	9.68	10.66	36.60	20.34	56.00	46.00	-19.40
0.7873	21.61	8.03	10.51	32.12	18.54	56.00	46.00	-23.88
2.0524	17.75	6.49	10.09	27.84	16.58	56.00	46.00	-28.16
2.8117	22.17	11.03	10.13	32.30	21.16	56.00	46.00	-23.70



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Mode: SCART MODE
Polarization: N

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.4700	27.13	14.04	10.64	37.77	24.68	56.51	46.51	-18.74
0.5152	28.34	13.21	10.66	39.00	23.87	56.00	46.00	-17.00
0.7861	22.49	9.84	10.50	32.99	20.34	56.00	46.00	-23.01
1.7758	19.75	8.24	10.15	29.90	18.39	56.00	46.00	-26.10
2.1364	19.14	7.71	10.09	29.23	17.80	56.00	46.00	-26.77
2.8431	23.09	12.25	10.11	33.20	22.36	56.00	46.00	-22.80

Polarization: L1

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.2075	25.16	8.77	10.77	35.93	19.54	63.30	53.30	-27.37
0.2601	24.93	11.21	10.73	35.66	21.94	61.43	51.43	-25.77
0.4685	25.81	11.26	10.64	36.45	21.90	56.54	46.54	-20.09
0.5202	26.26	9.88	10.66	36.92	20.54	56.00	46.00	-19.08
0.7898	22.19	8.23	10.51	32.70	18.74	56.00	46.00	-23.30
2.8802	21.28	9.24	10.13	31.41	19.37	56.00	46.00	-24.59

Mode: USB MODE
Polarization: N

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.1842	30.71	15.44	10.76	41.47	26.20	64.29	54.29	-22.82
0.4654	25.28	12.36	10.64	35.92	23.00	56.60	46.60	-20.68
0.5150	28.10	14.00	10.66	38.76	24.66	56.00	46.00	-17.24
0.9203	20.58	8.17	10.43	31.01	18.60	56.00	46.00	-24.99
2.9231	22.57	11.43	10.12	32.69	21.55	56.00	46.00	-23.31
6.5240	17.52	7.38	10.23	27.75	17.61	60.00	50.00	-32.25

Polarization: L1

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
0.2051	27.73	10.45	10.77	38.50	21.22	63.40	53.40	-24.90
0.2571	26.51	9.12	10.73	37.24	19.85	61.52	51.52	-24.28
0.4685	24.87	10.59	10.64	35.51	21.23	56.54	46.54	-21.03
0.5154	26.57	9.88	10.66	37.23	20.54	56.00	46.00	-18.77
0.7888	21.25	7.88	10.51	31.76	18.39	56.00	46.00	-24.24
2.1870	18.00	5.68	10.10	28.10	15.78	56.00	46.00	-27.90



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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

- Note: 1.The formula of measured value as: Test Result = Reading + Correction Factor**
2.The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
3.Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4.All not in the table noted test results are more than 20 dB below the relevant limits.
5.See attached diagrams in Appendix.

Test equipment used: ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006, ETSTW-RE 064



Appendix

A Measurement diagrams

1. Peak Output Power
2. Spurious Emissions radiated
3. Carrier Frequency Separation
4. Number of Hopping Frequencies
5. Time of Occupancy (Dwell Time)
6. 20dB Bandwidth
7. Band-edge Compliance of RF Conducted Emissions
8. 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

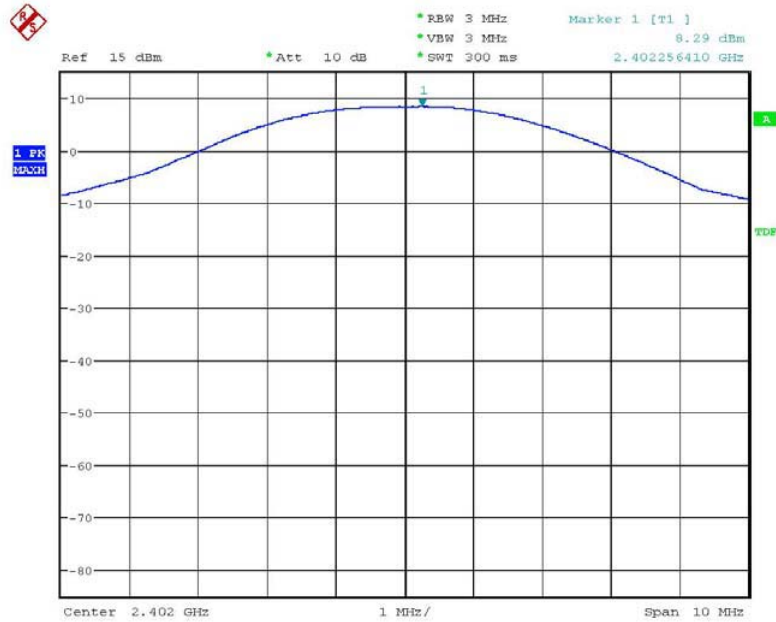


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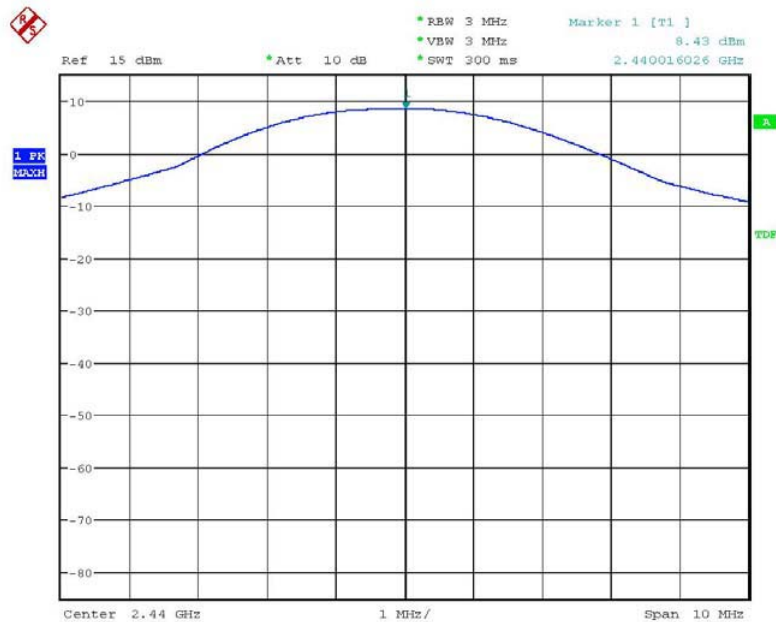
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Peak Output Power



MAX OUTPUT POWER 2402MHz
Date: 26.OCT.2010 09:45:44

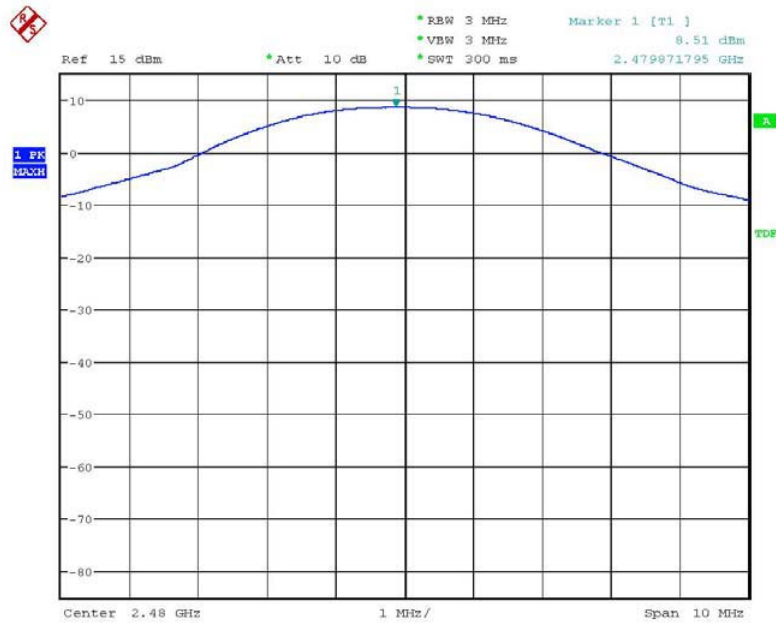


MAX OUTPUT POWER 2440MHz
Date: 26.OCT.2010 09:50:18



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B



MAX OUTPUT POWER 2480MHz
Date: 26.OCT.2010 09:51:37



Registration number: W6M21008-10864-C-1-R

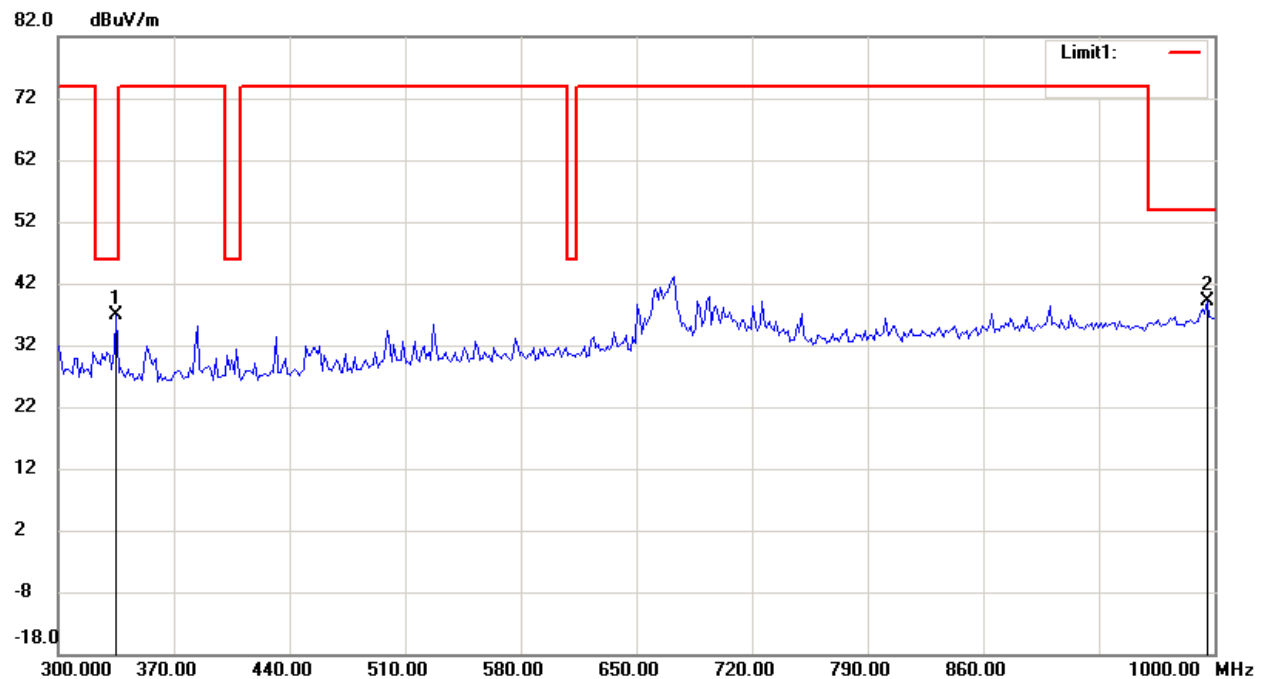
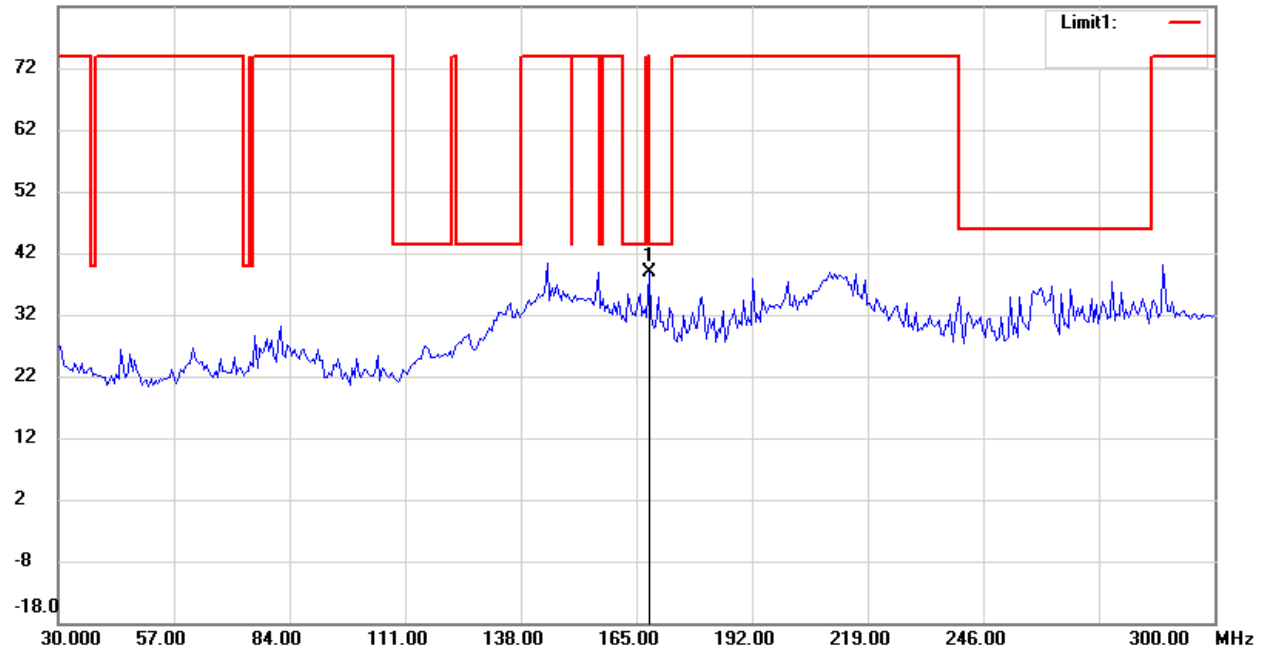
FCC ID: V94-DVC-B22-B

Spurious Emissions radiated

2402MHz

Polarization H

82.0 dBuV/m



Note:

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

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.

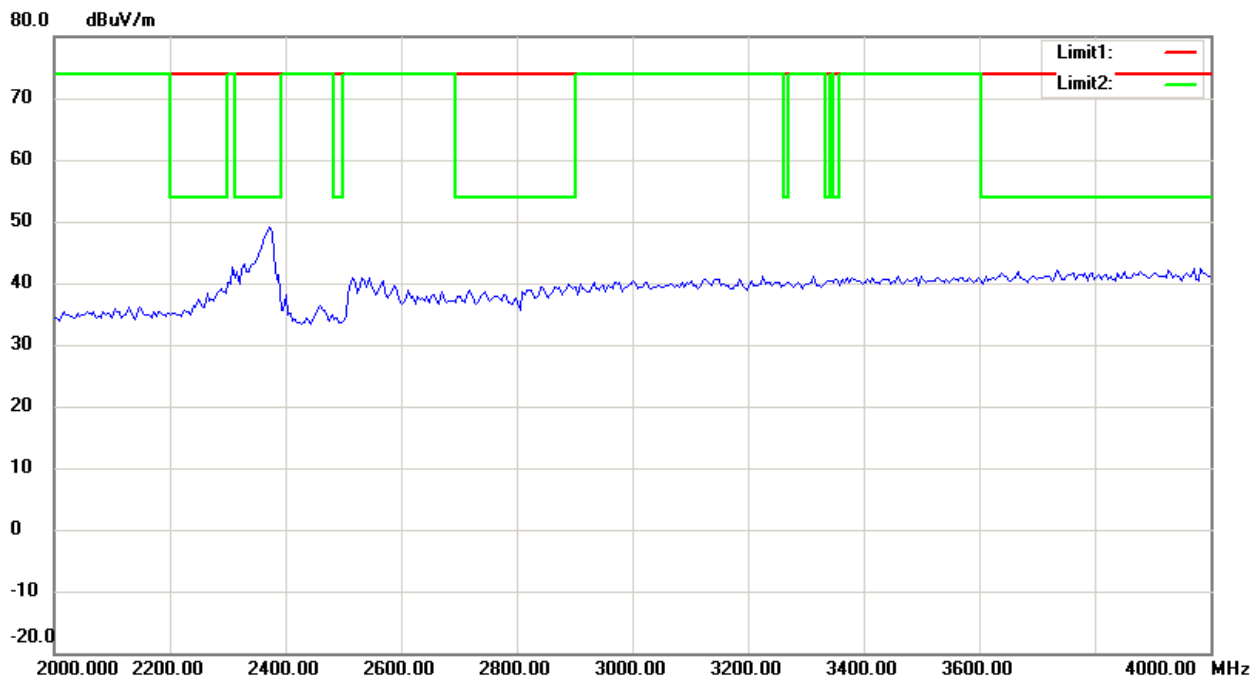
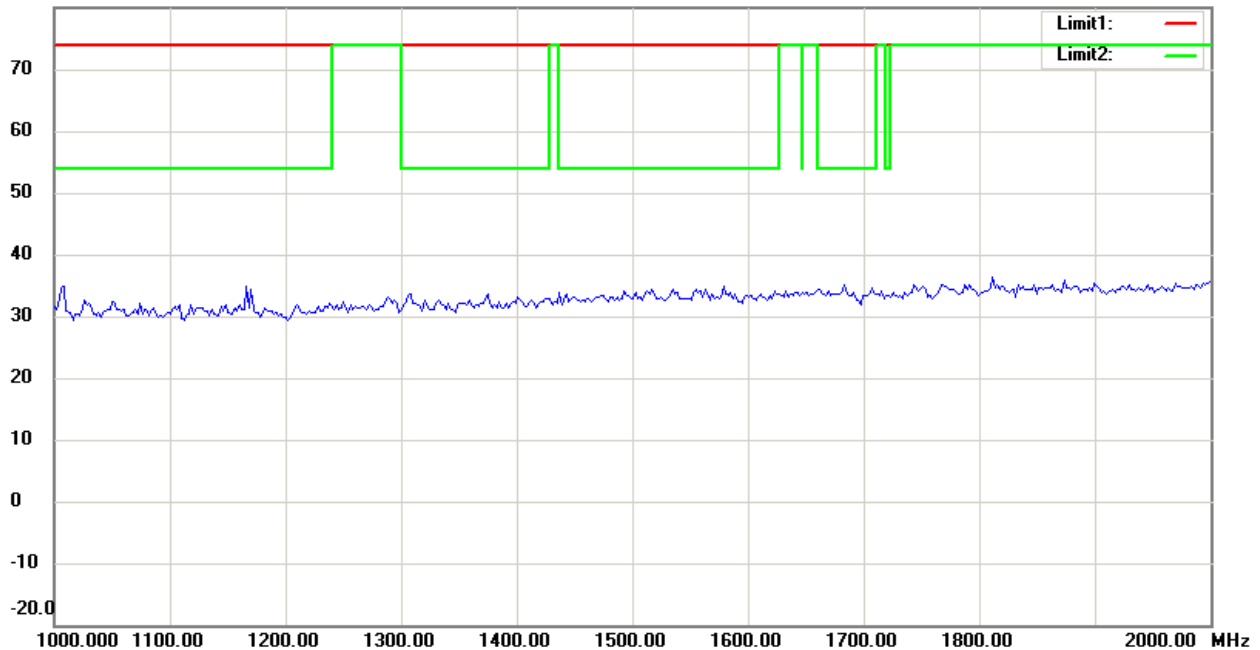


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

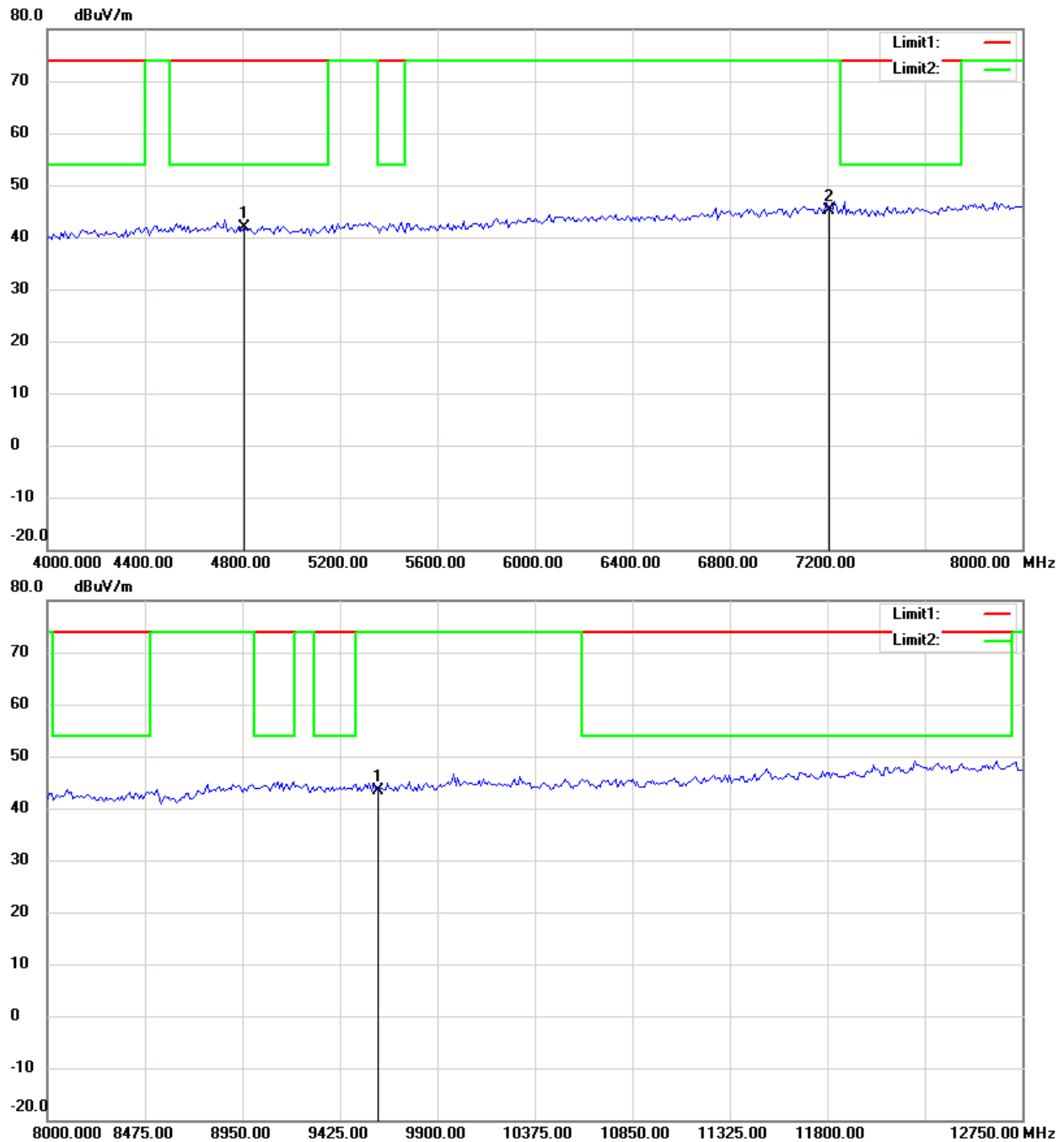
Up Line: Peak Limit Line, Down Line Ave Limit Line

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Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



Note:

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

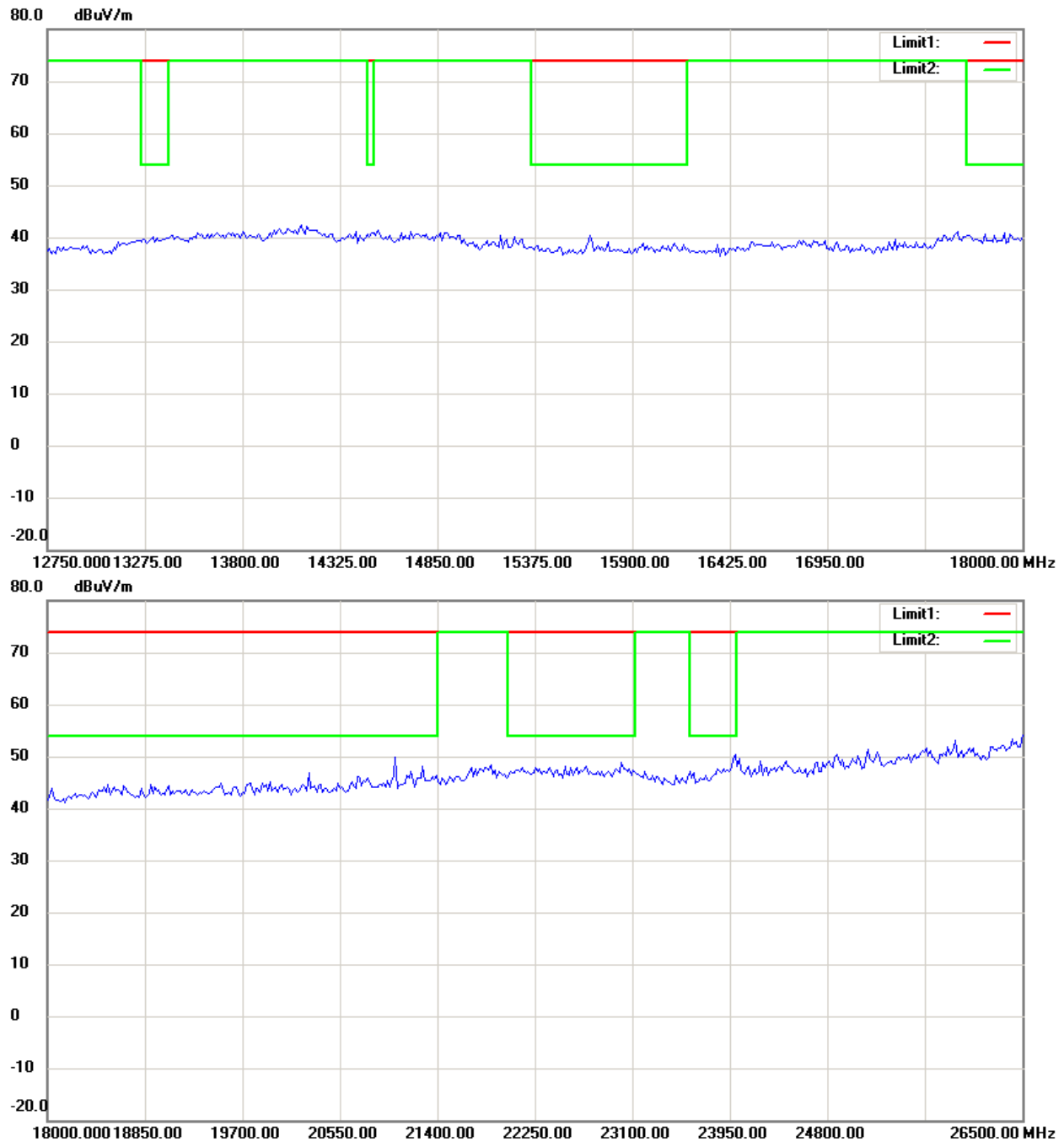
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



Note:

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

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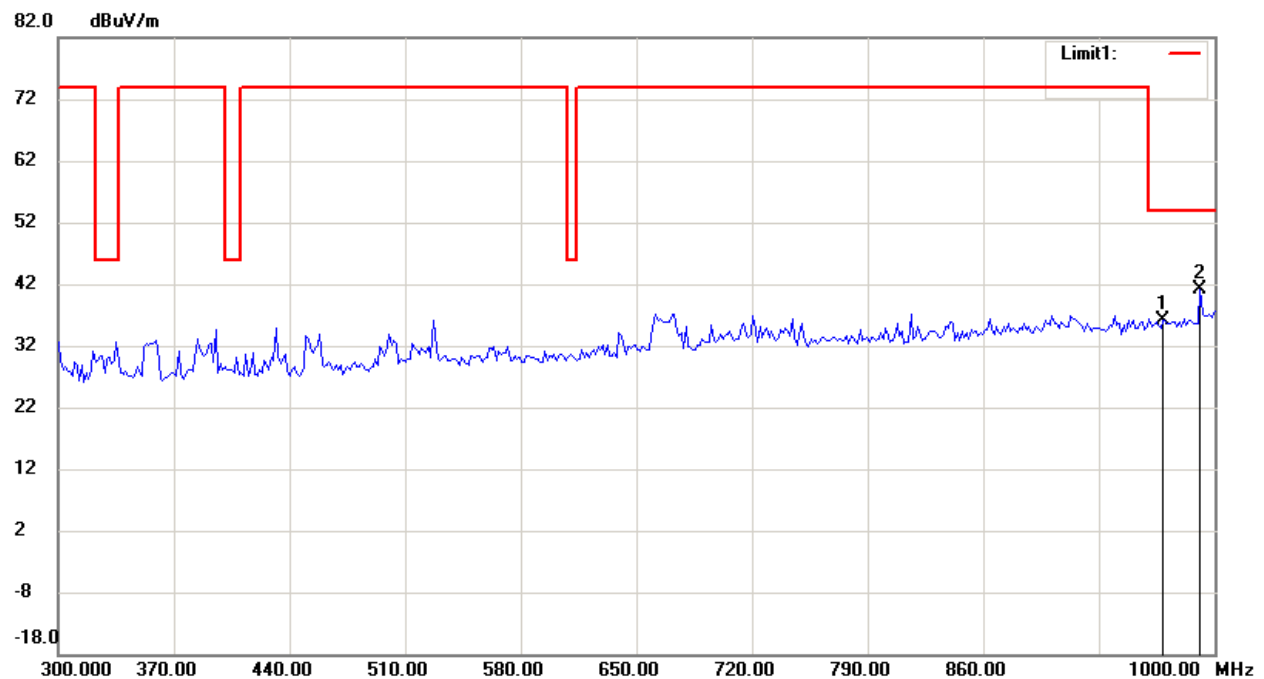
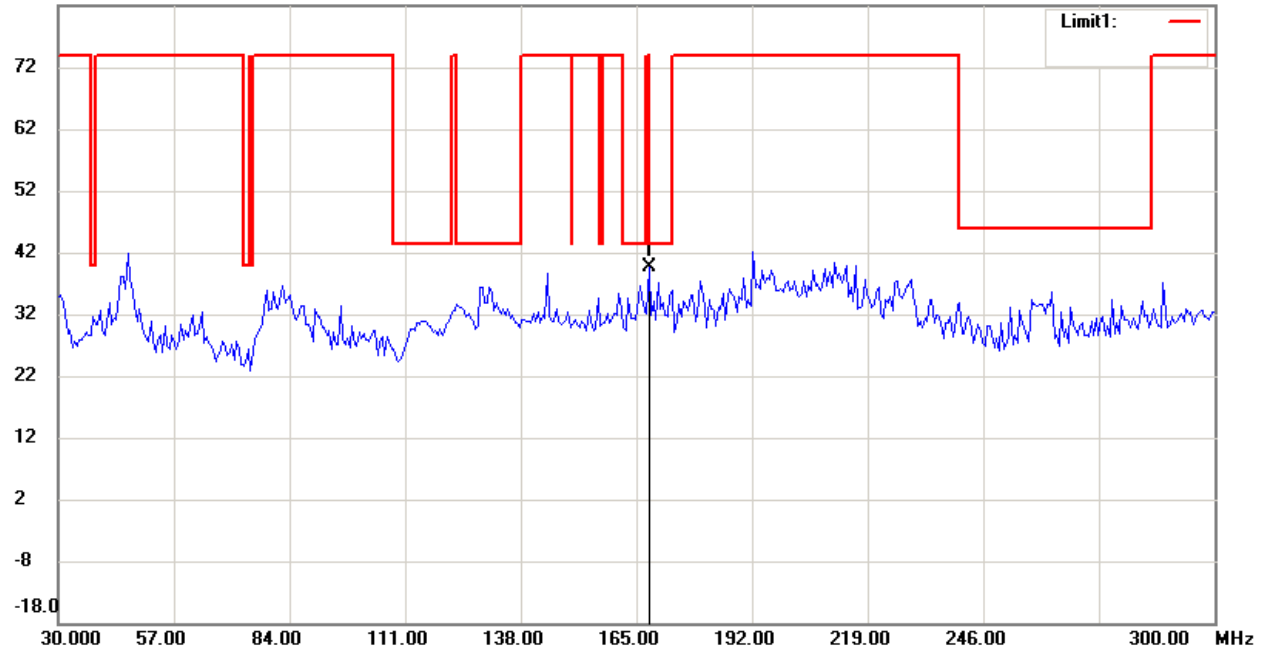


Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Polarization V

82.0 dBuV/m



Note:

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

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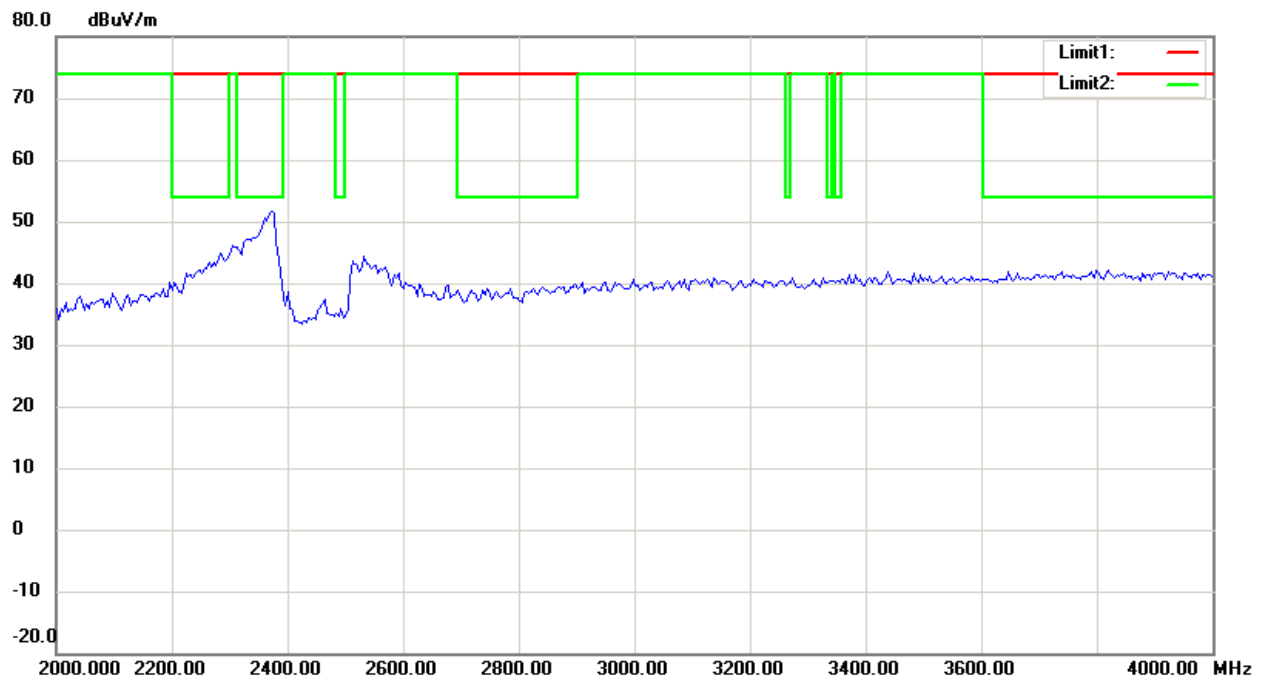
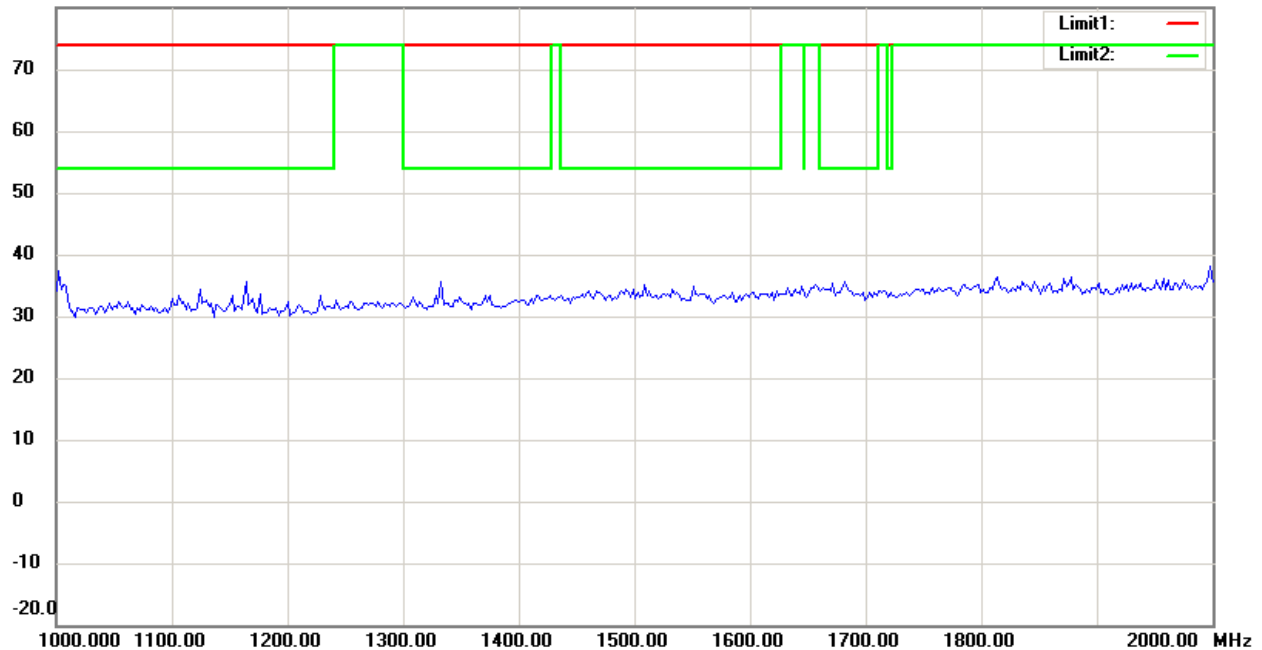


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

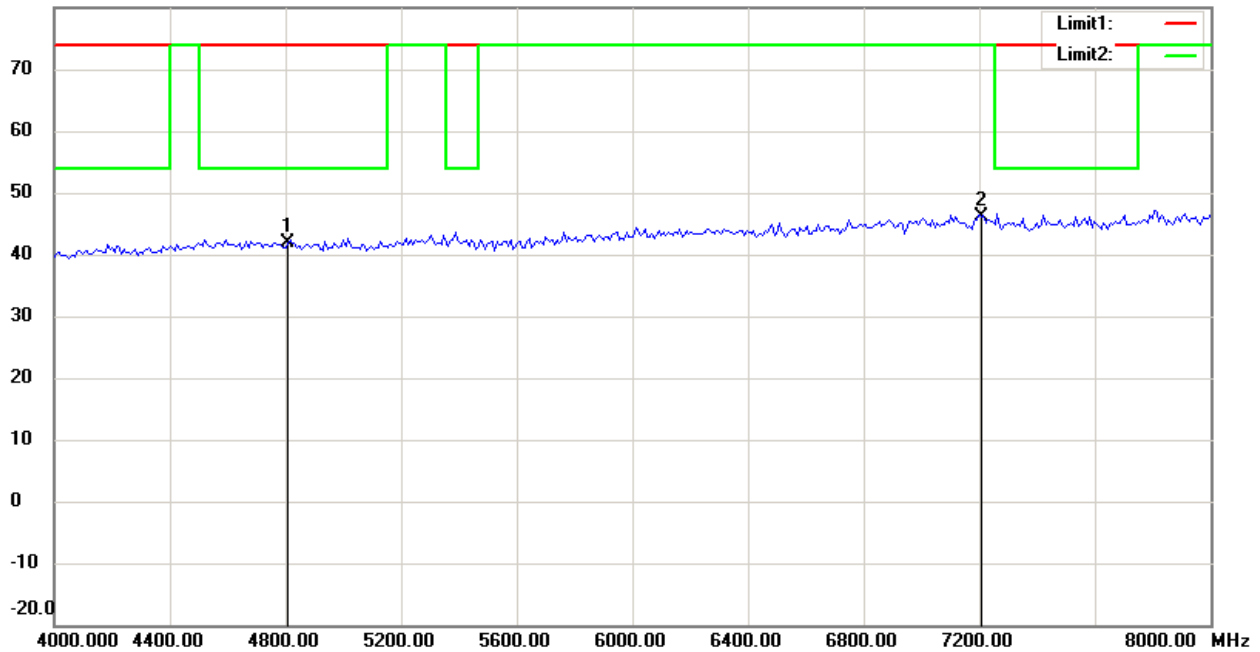
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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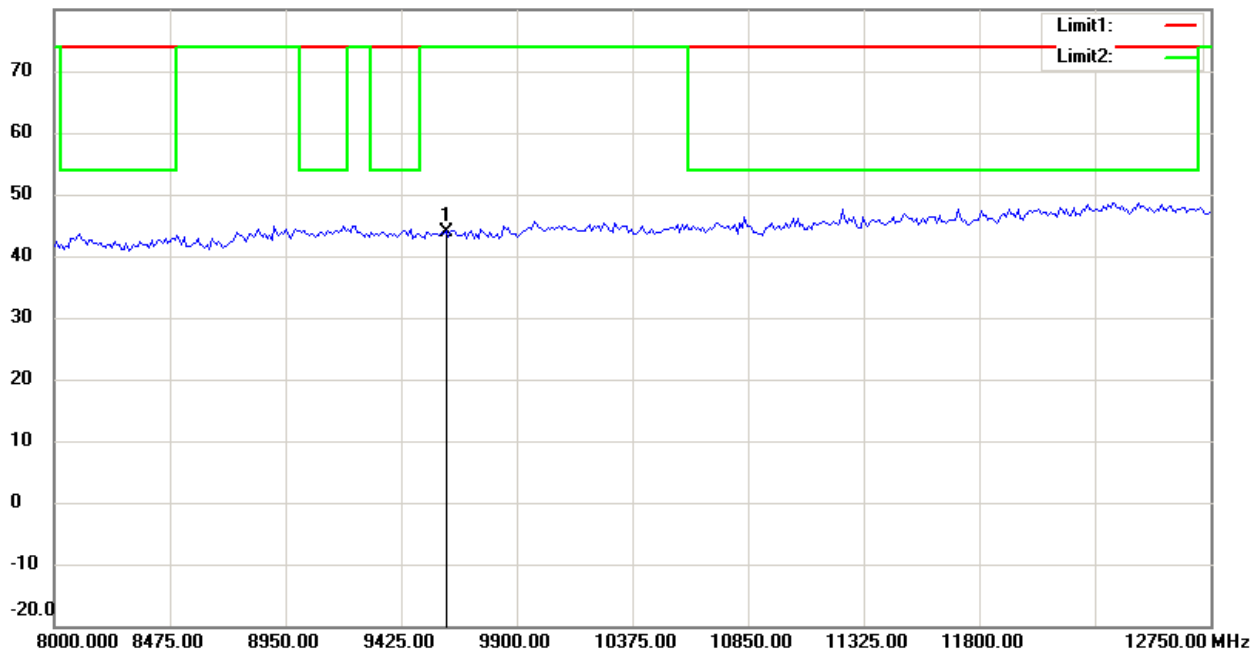
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



80.0 dBuV/m



Note:

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

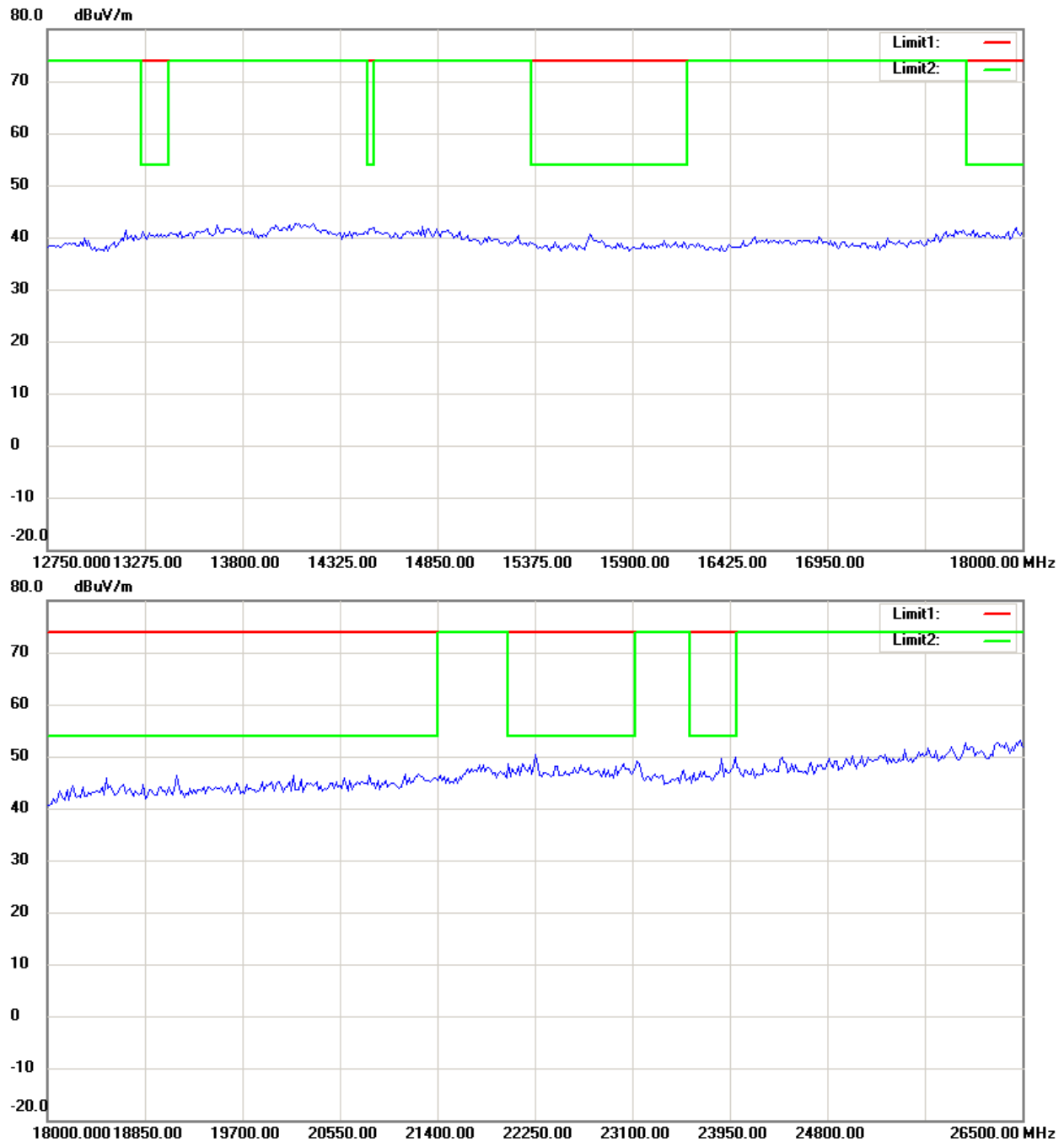
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



Note:

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

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Worldwide Testing Services(Taiwan) Co., Ltd.

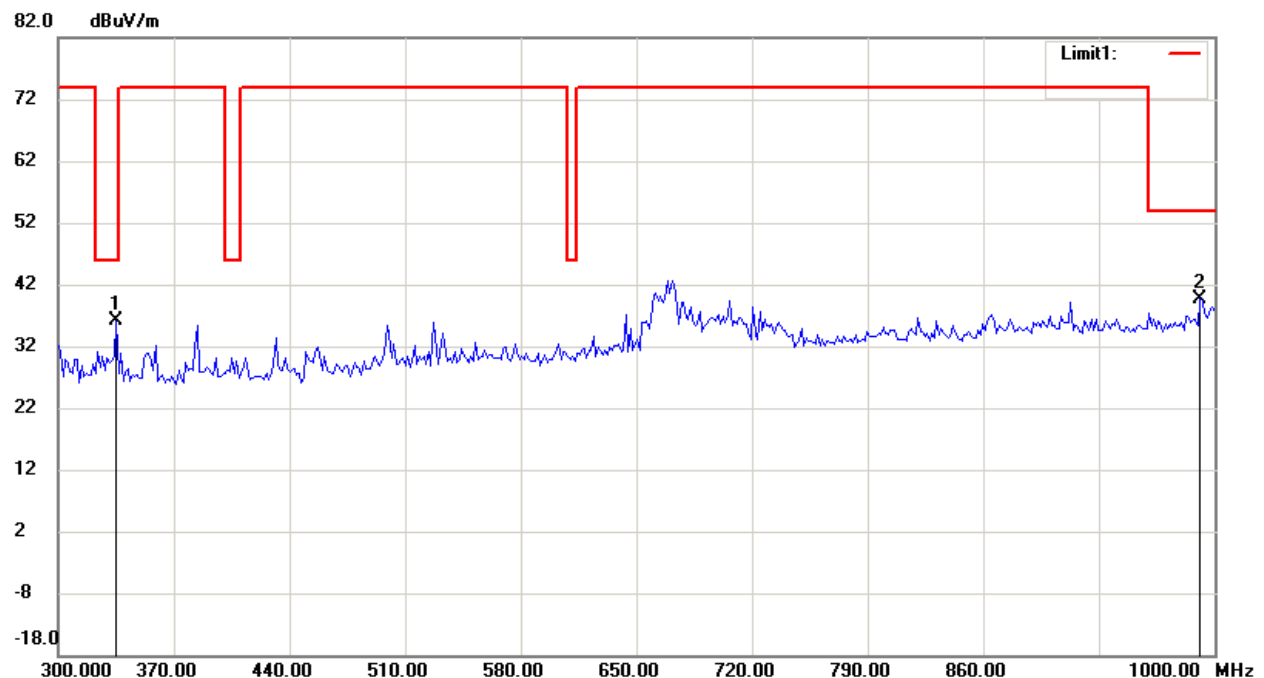
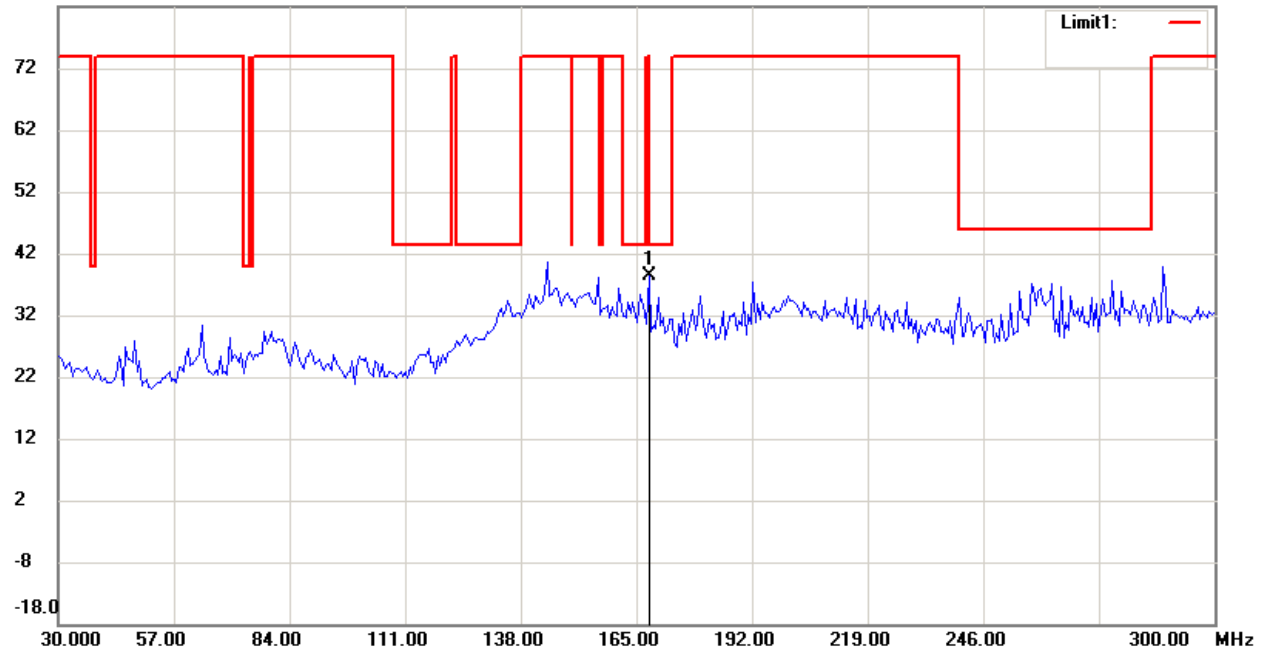
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

2440MHz

Polarization H

82.0 dBuV/m



Note:

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

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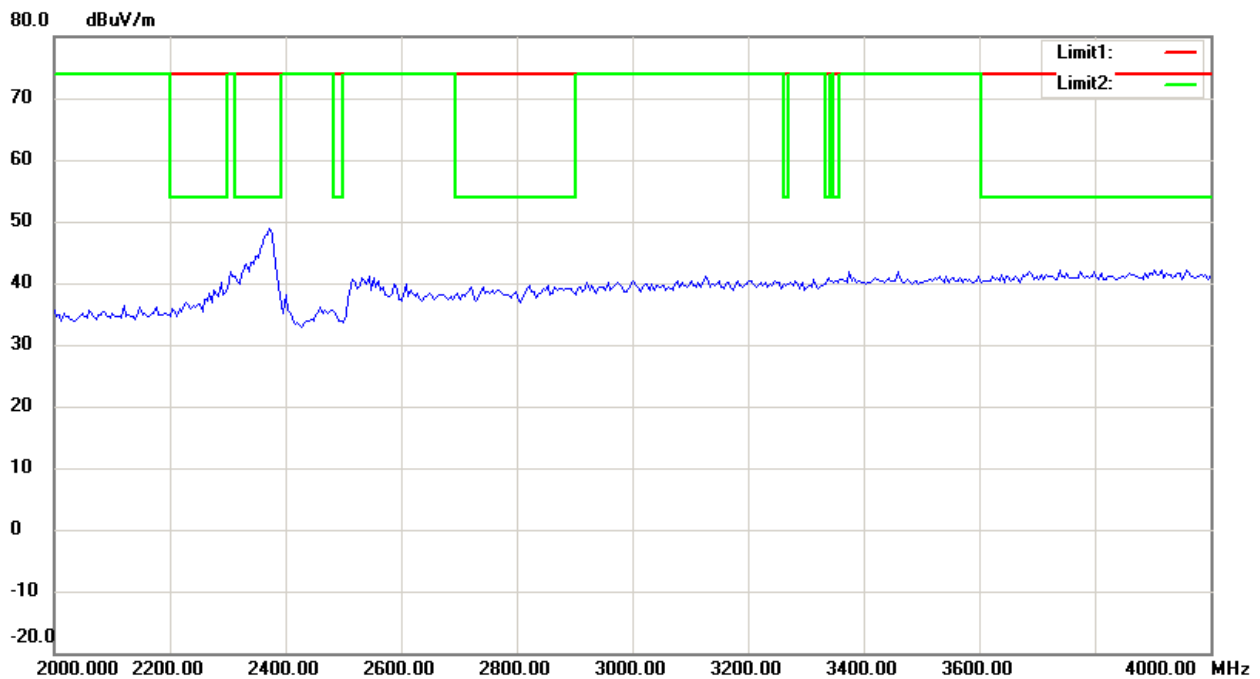
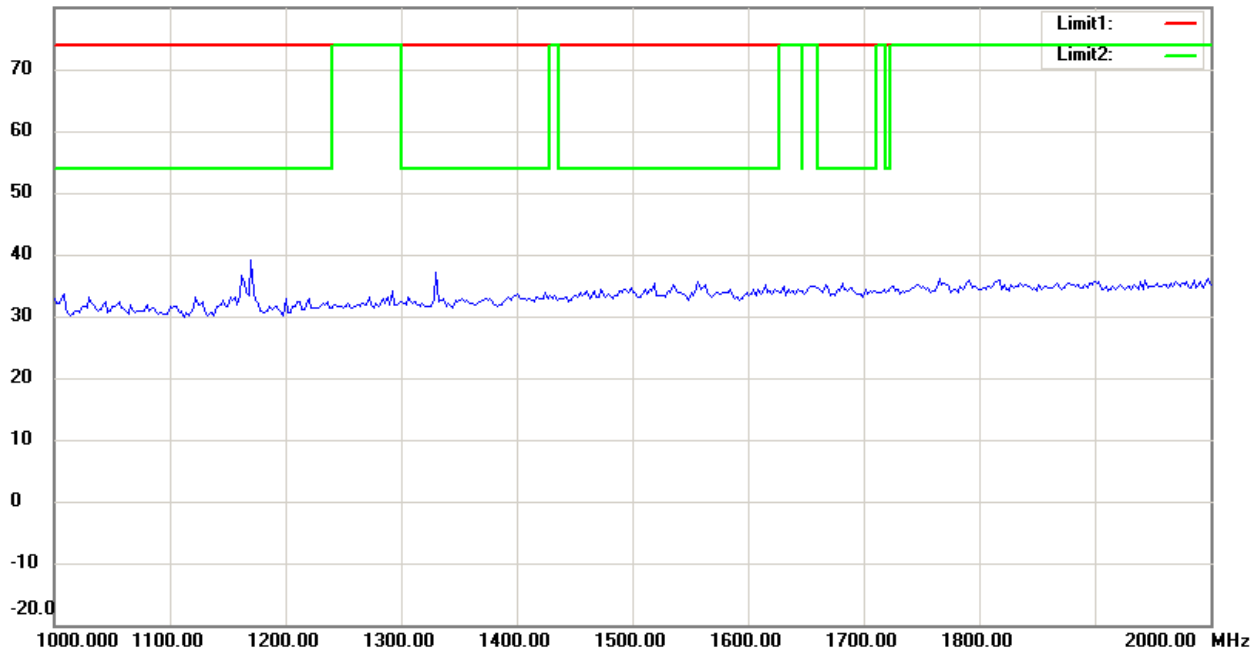


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

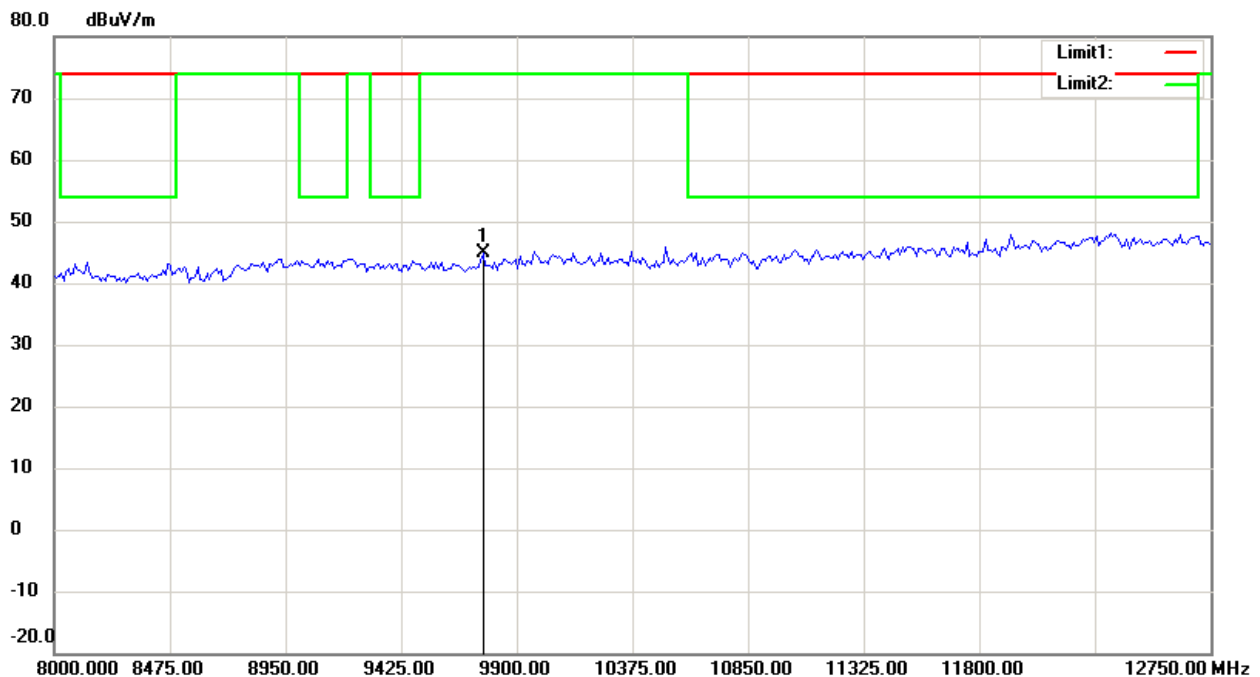
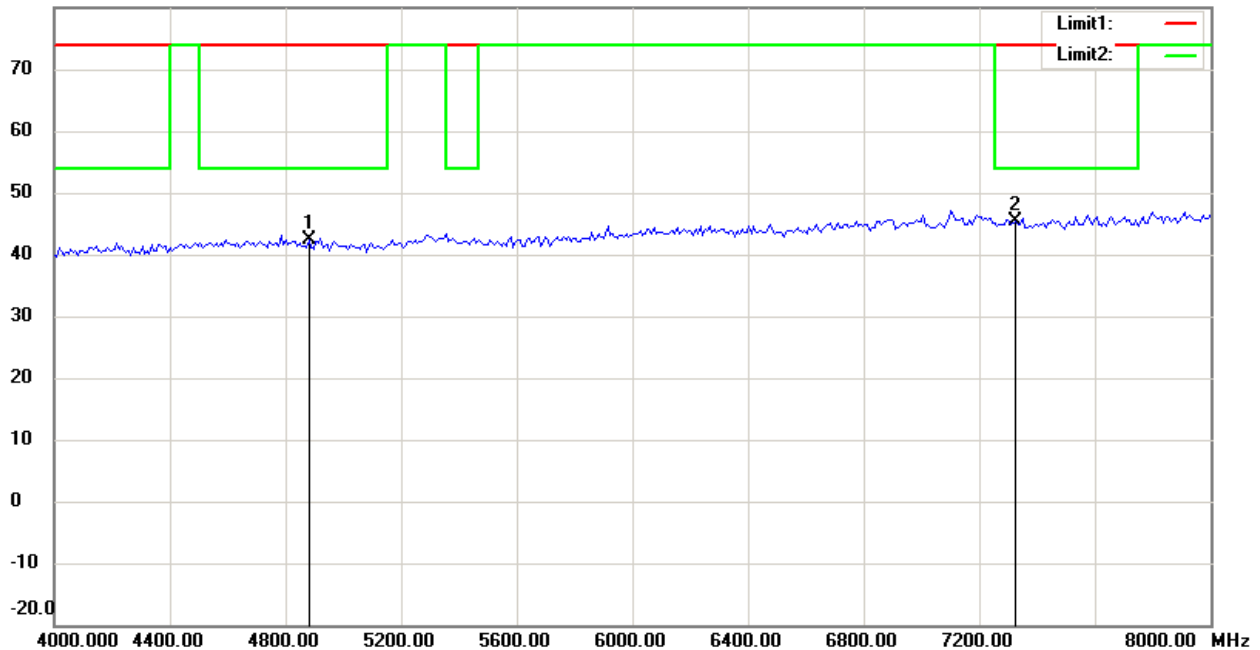
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

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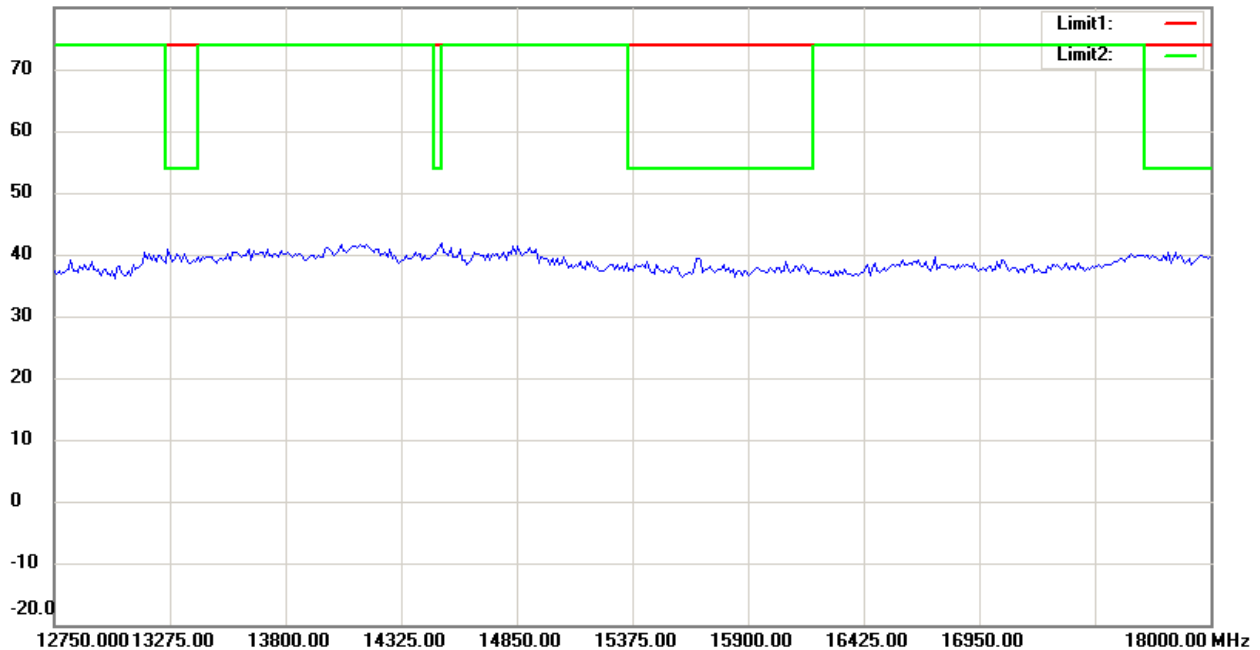


Worldwide Testing Services(Taiwan) Co., Ltd.

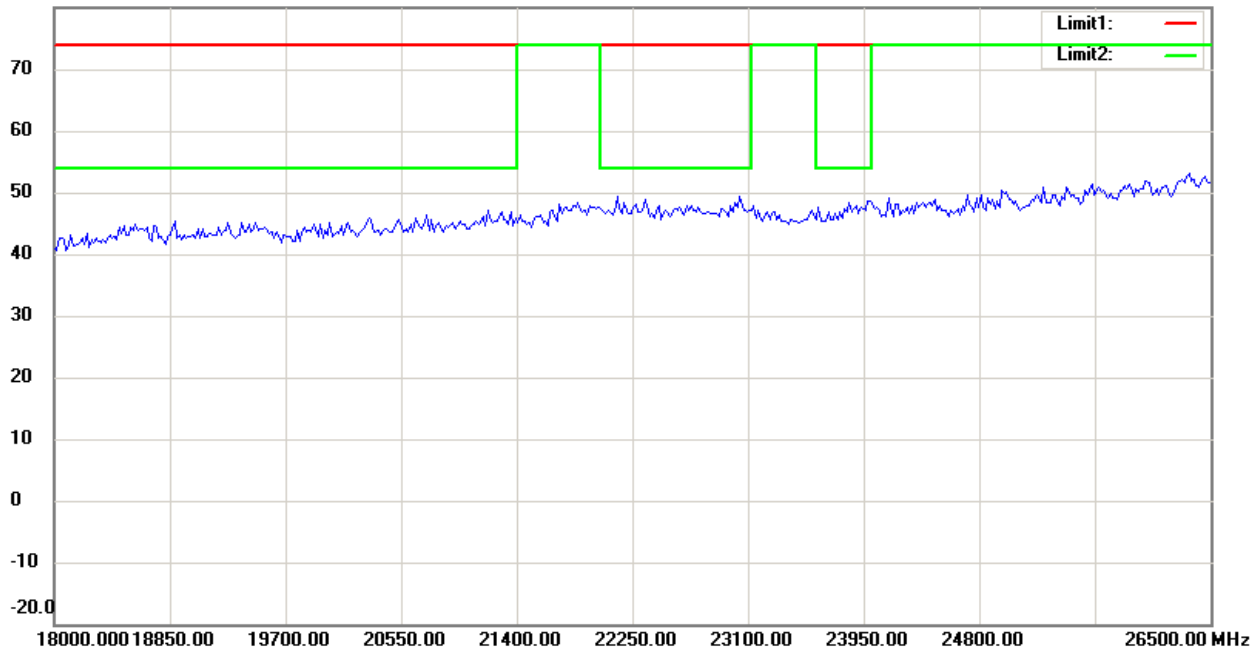
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



80.0 dBuV/m



Note:

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

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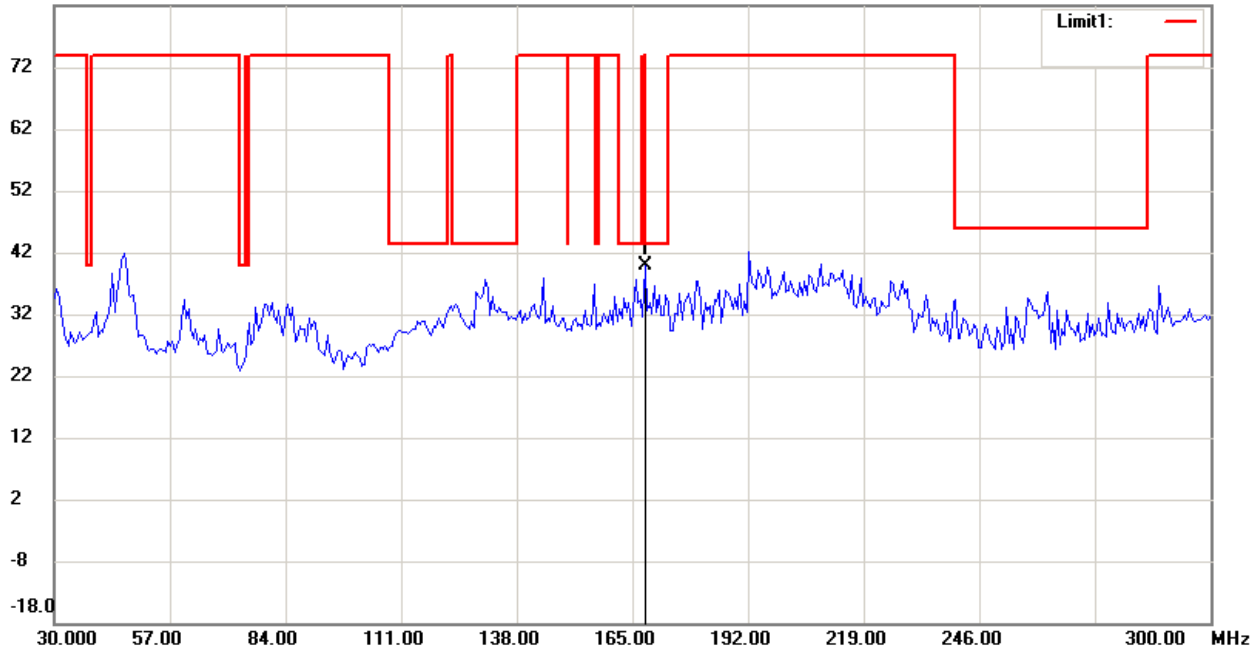


Registration number: W6M21008-10864-C-1-R

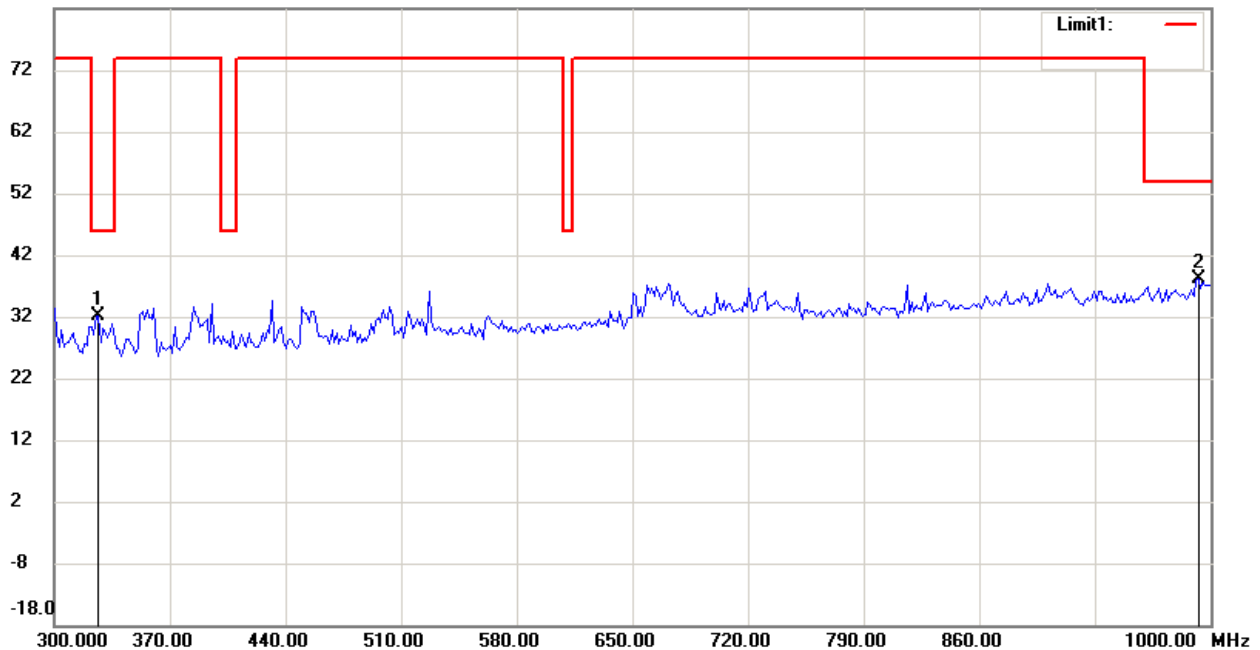
FCC ID: V94-DVC-B22-B

Polarization V

82.0 dBuV/m



82.0 dBuV/m



Note:

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

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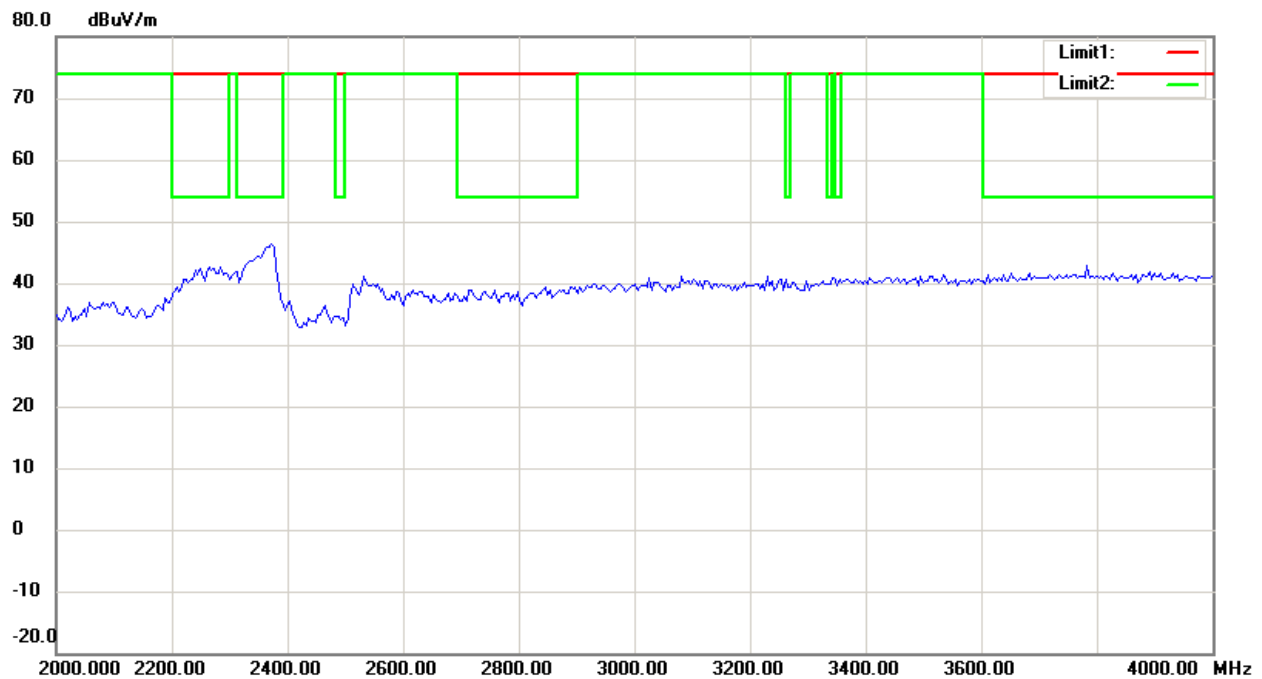
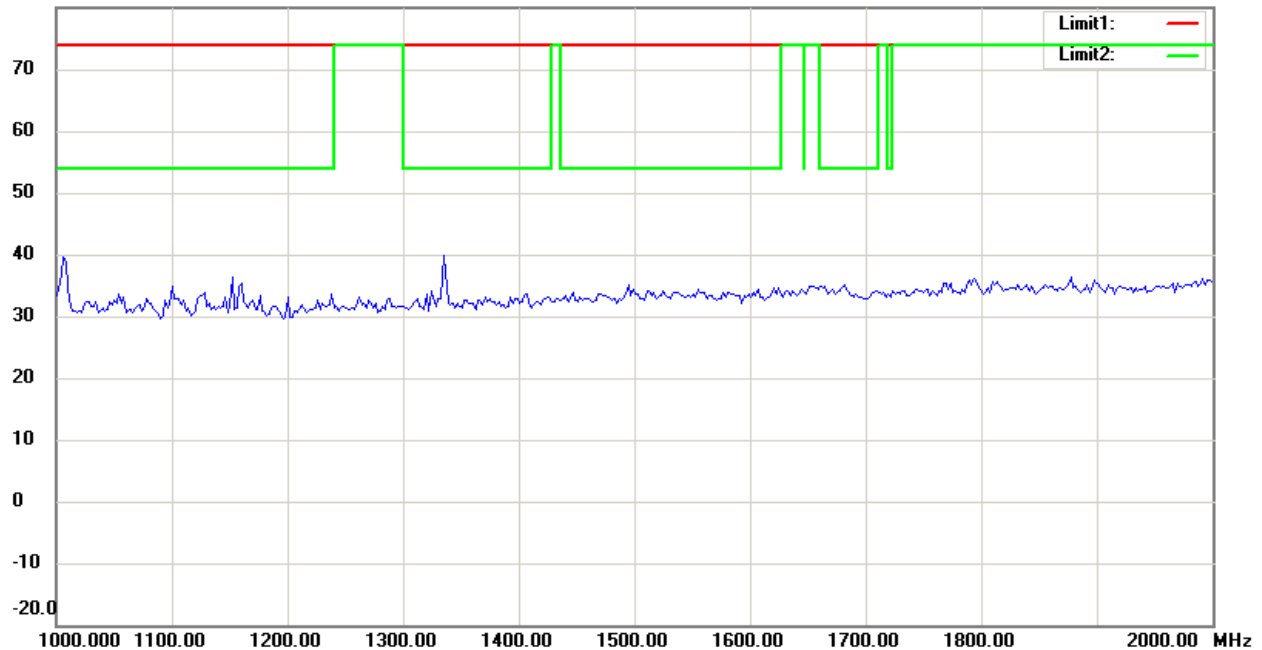


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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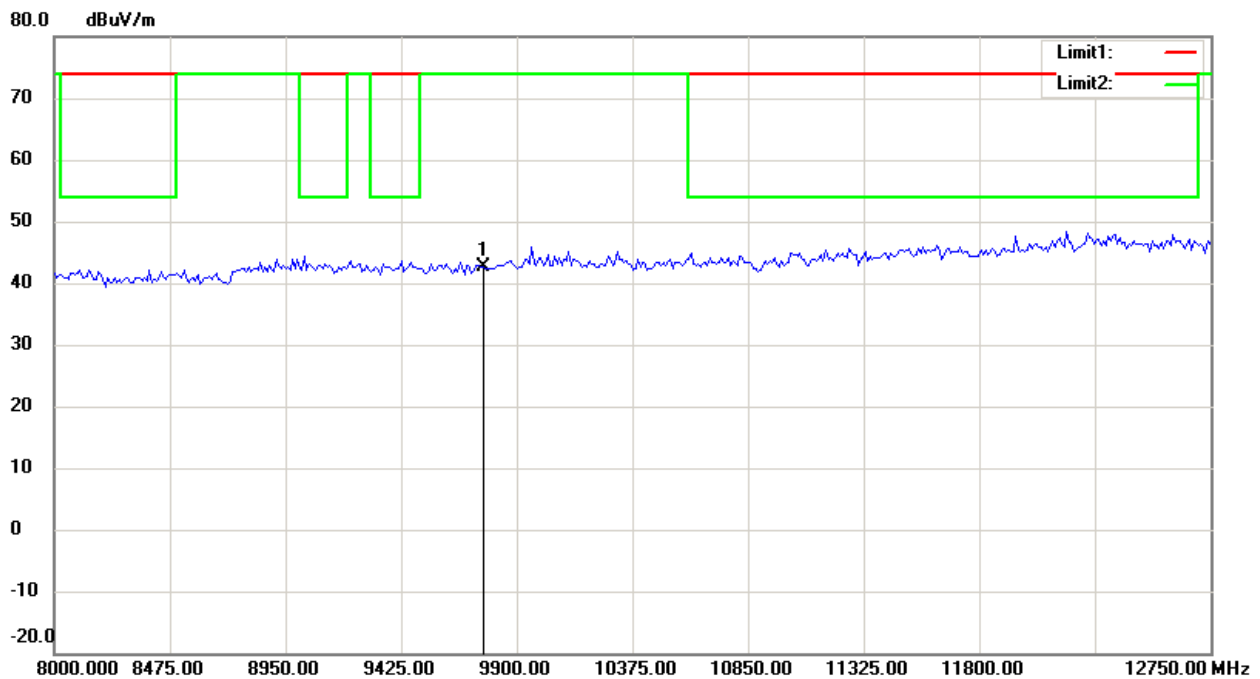
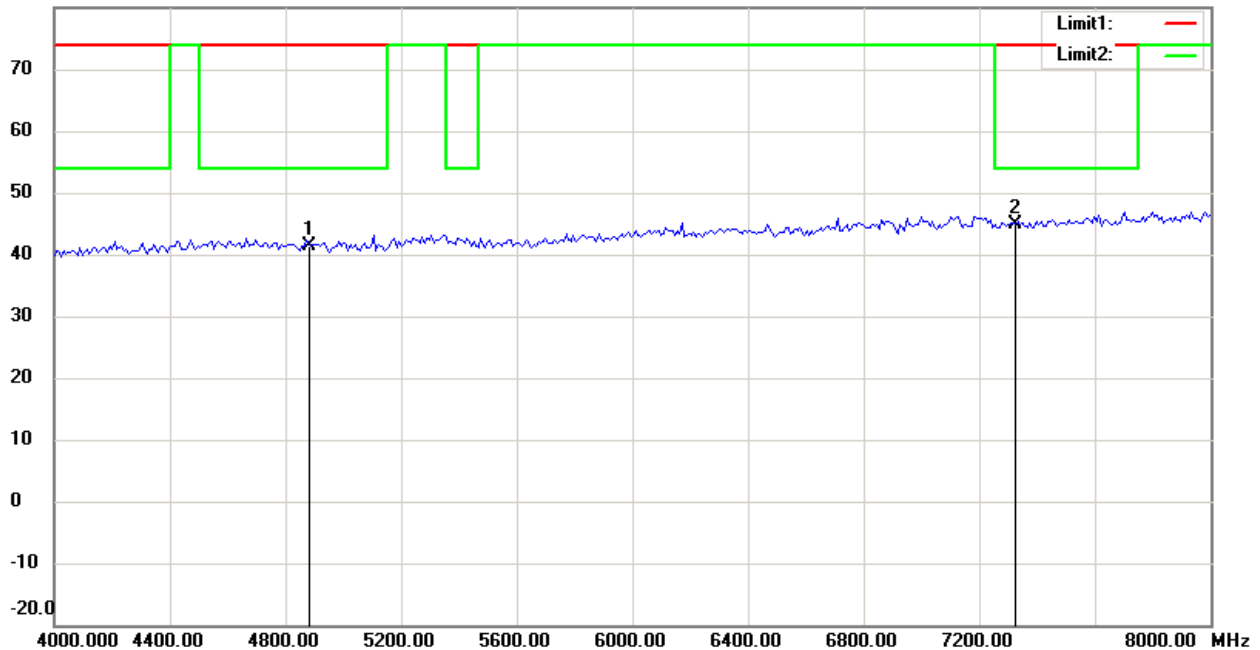


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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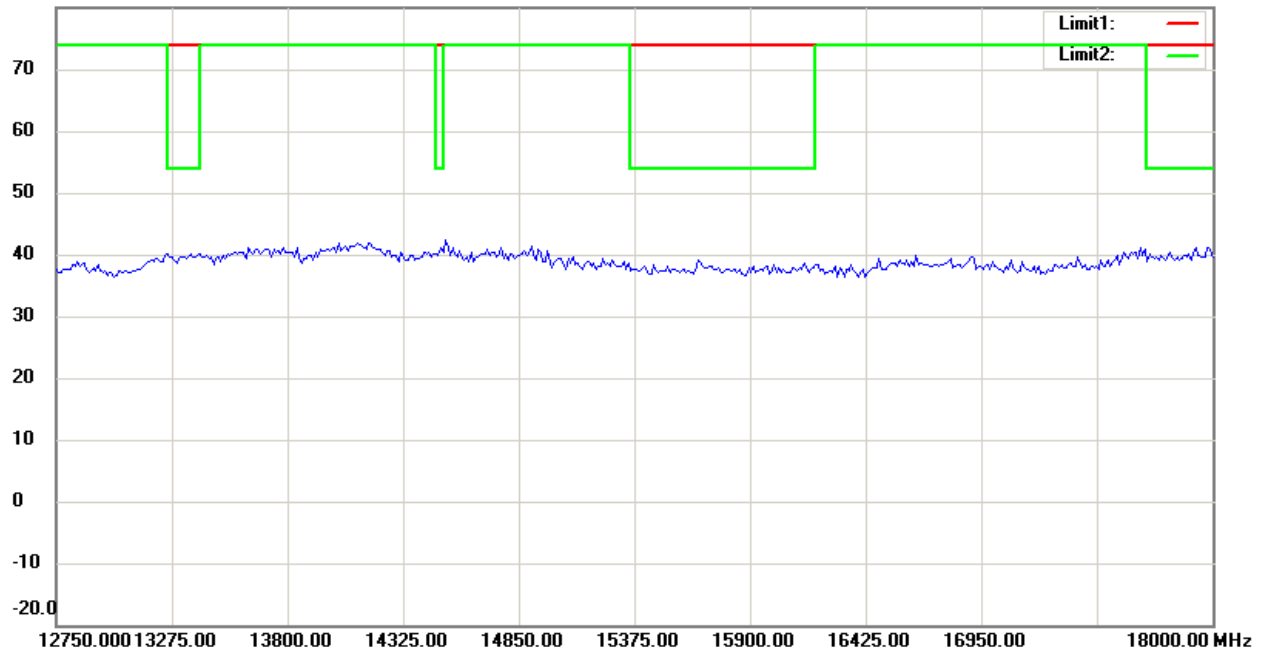


Worldwide Testing Services(Taiwan) Co., Ltd.

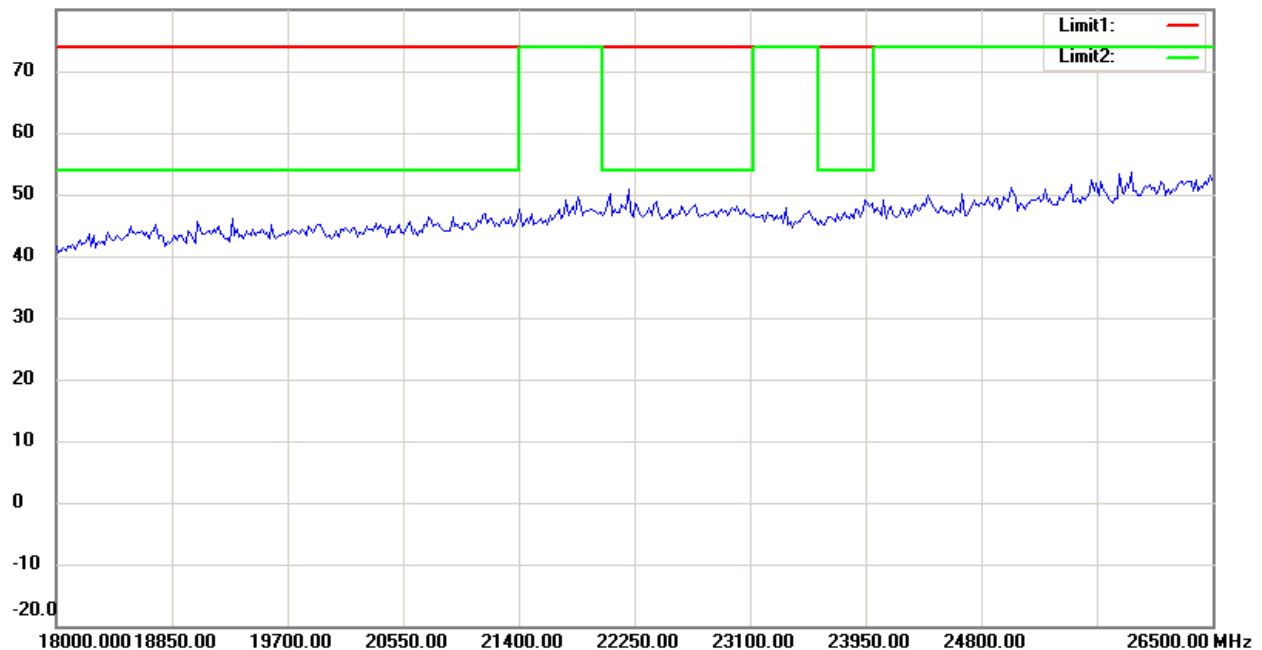
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



80.0 dBuV/m



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Worldwide Testing Services(Taiwan) Co., Ltd.

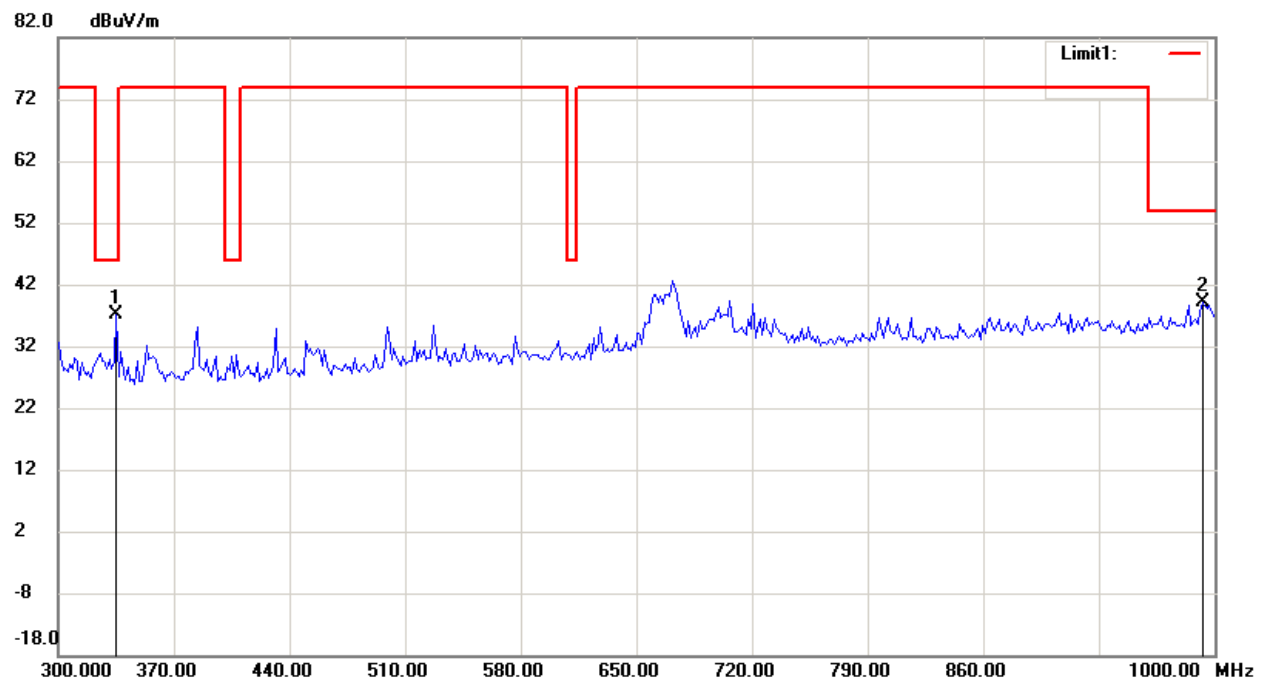
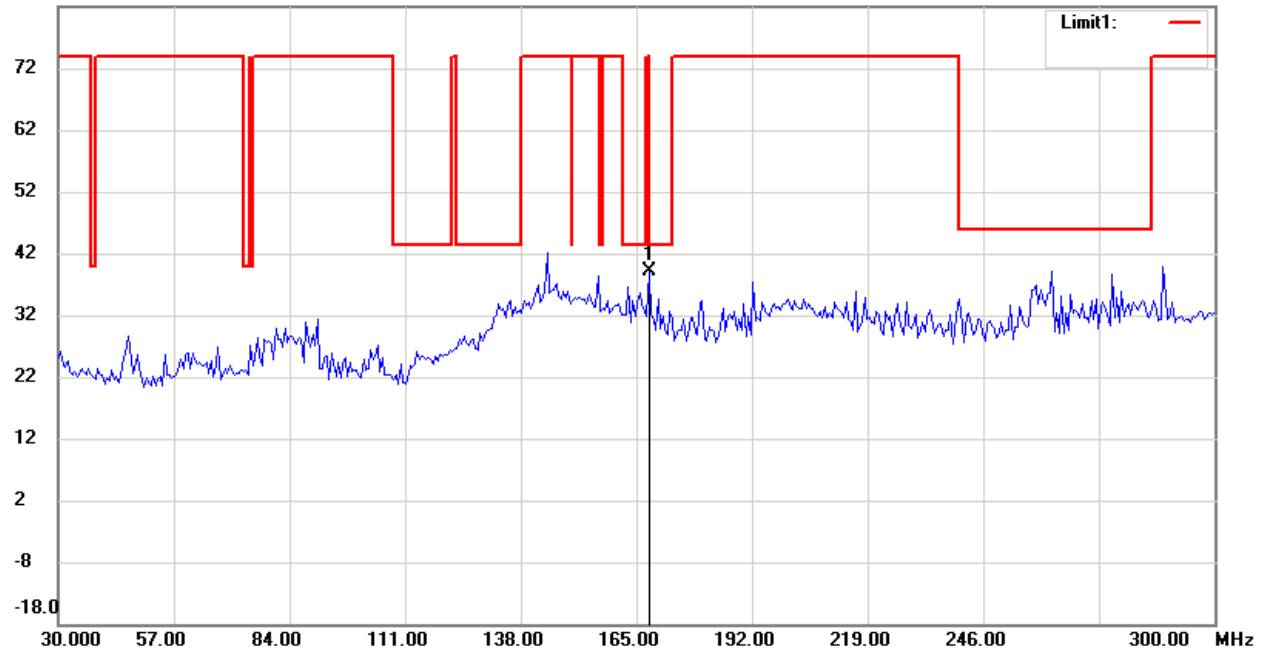
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

2480MHz

Polarization H

82.0 dBuV/m



Note:

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

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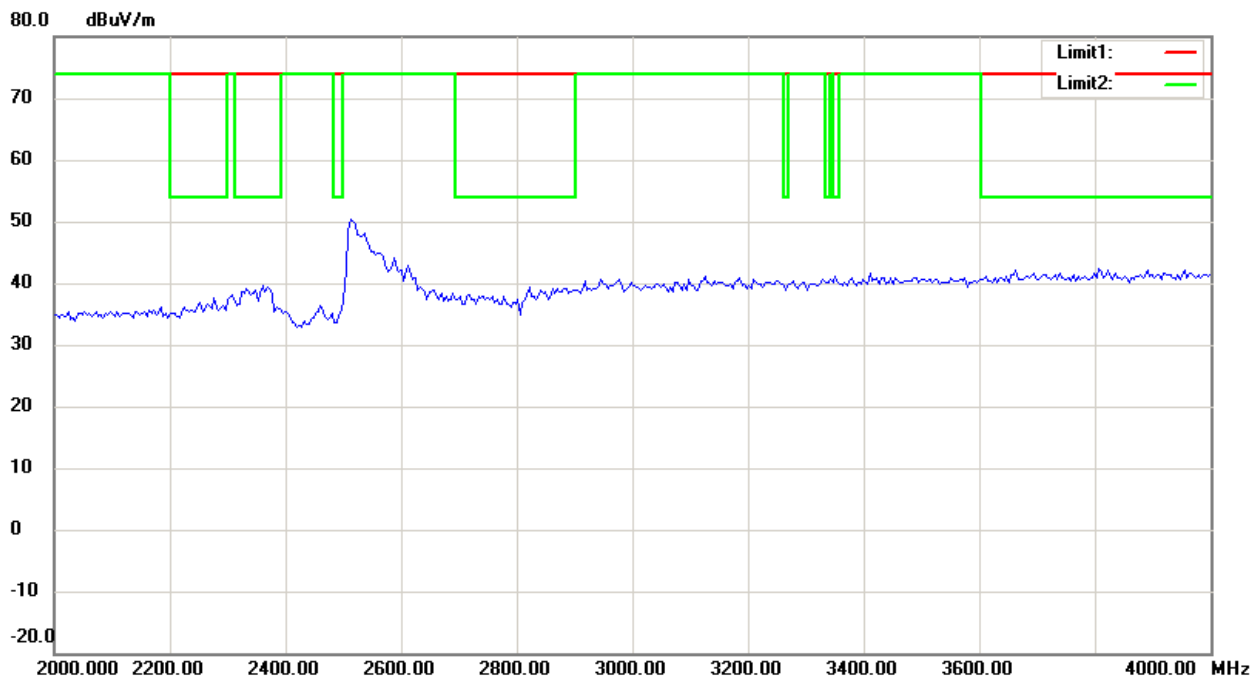
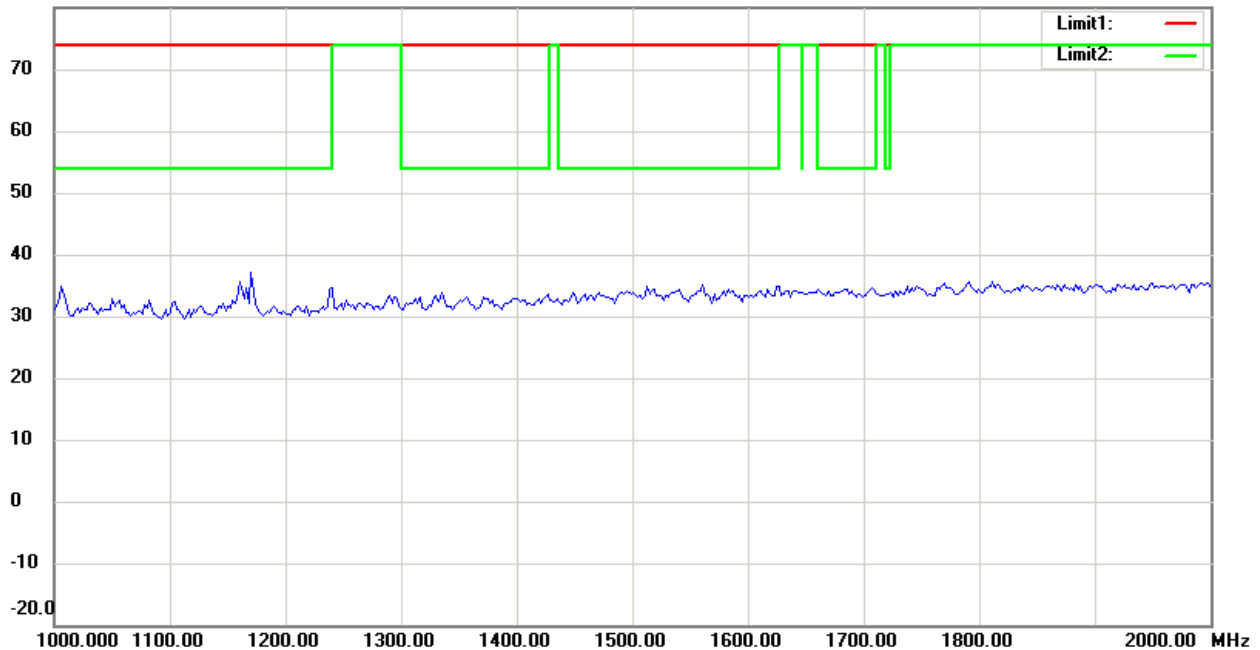


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

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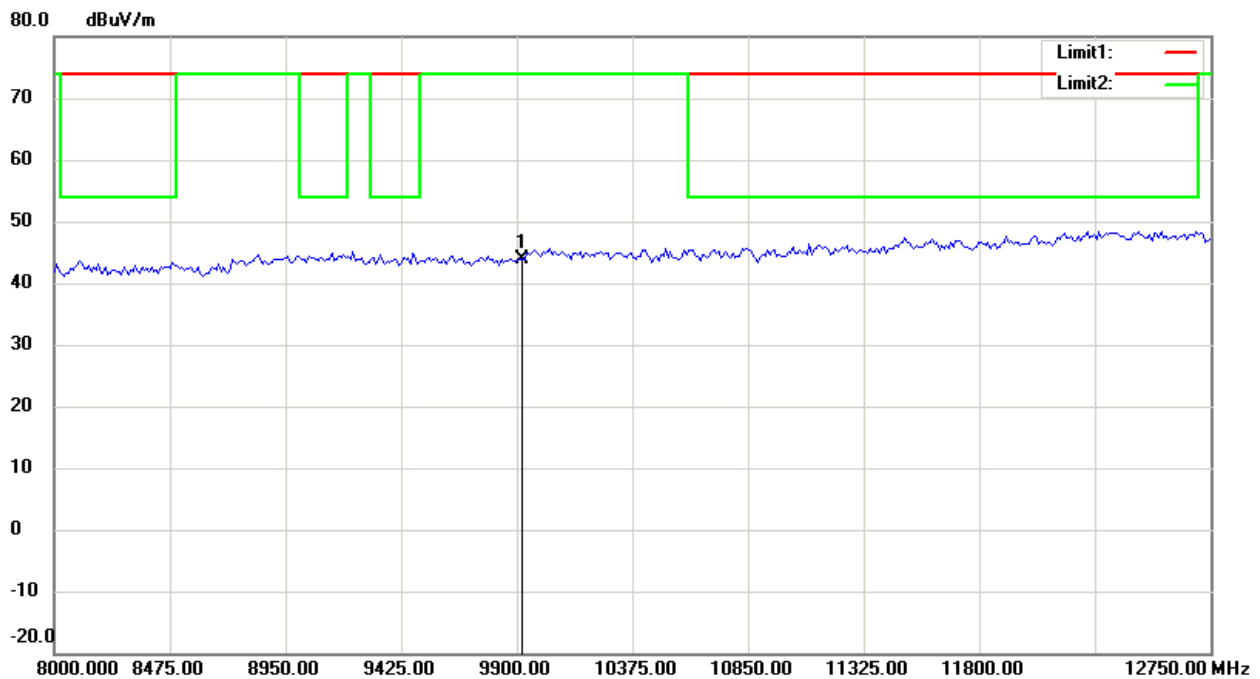
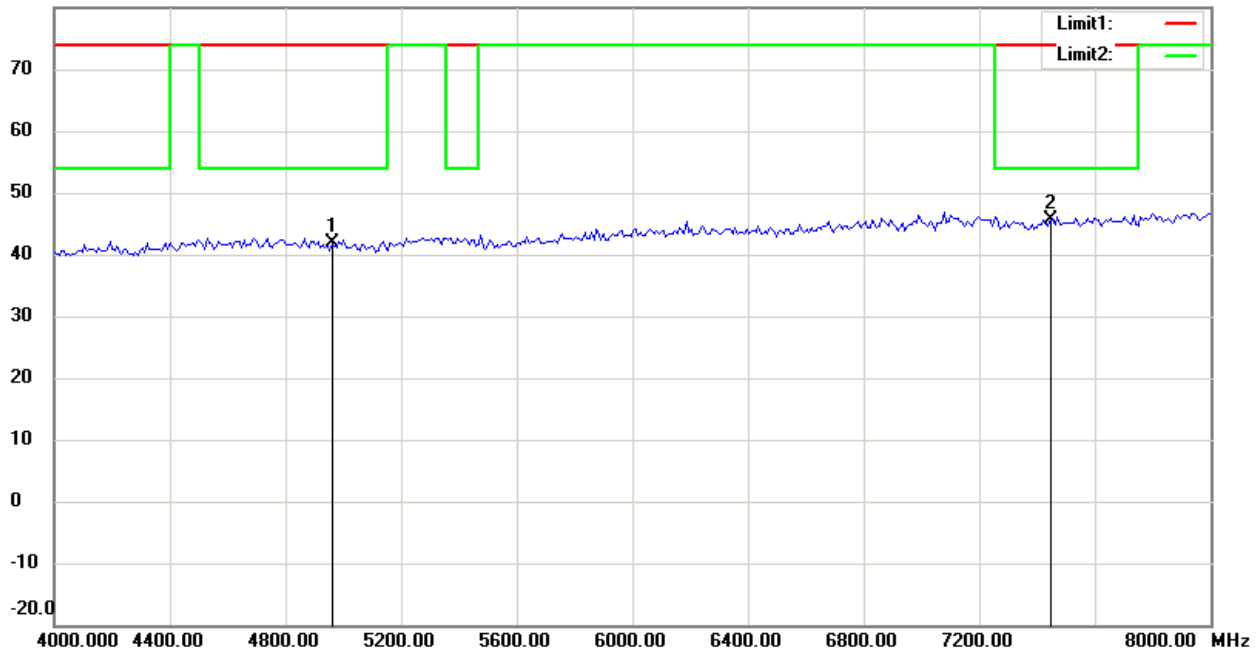


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



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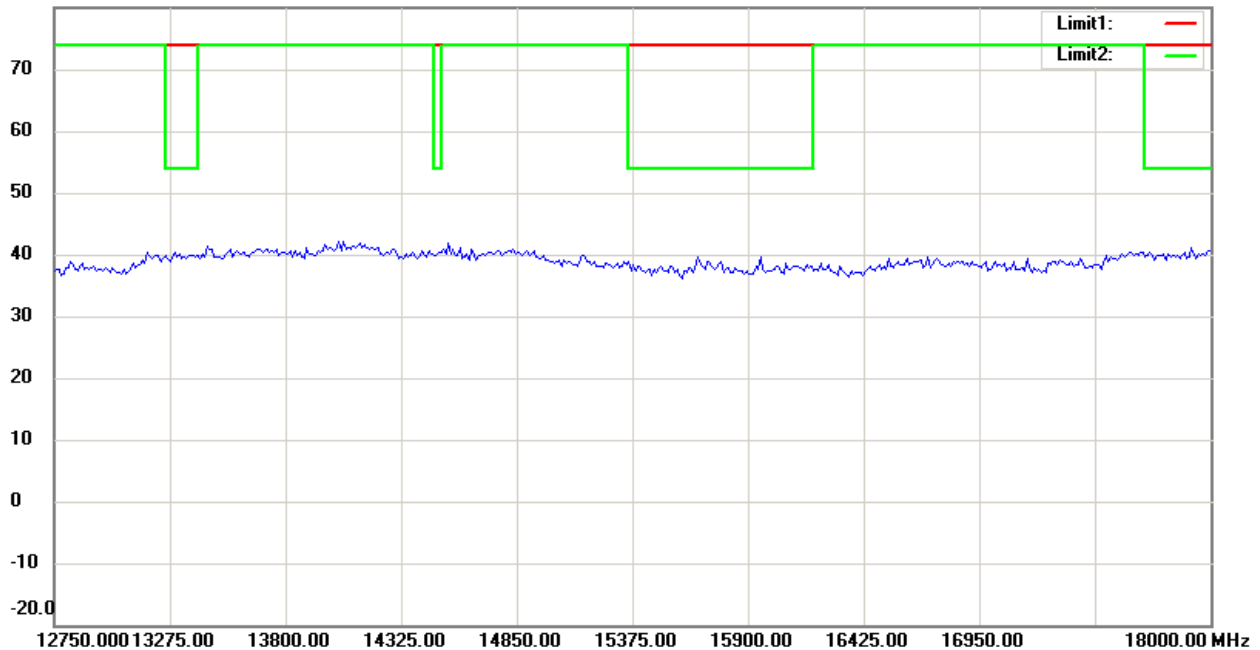


Worldwide Testing Services(Taiwan) Co., Ltd.

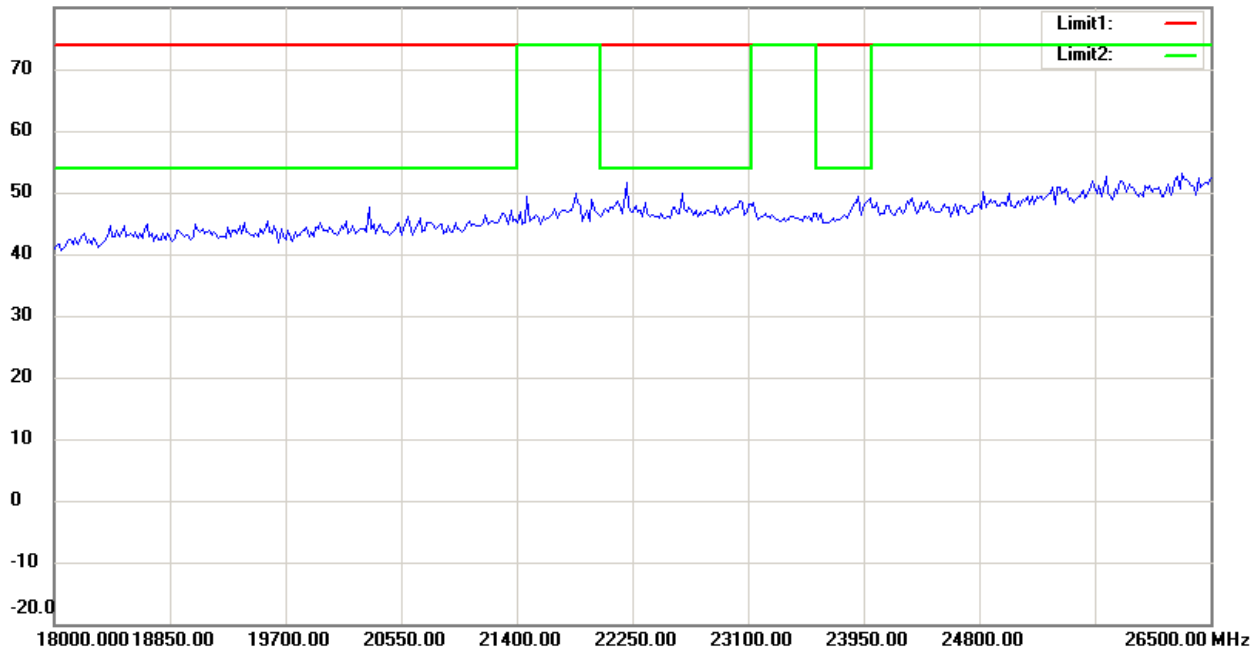
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



80.0 dBuV/m



Note:

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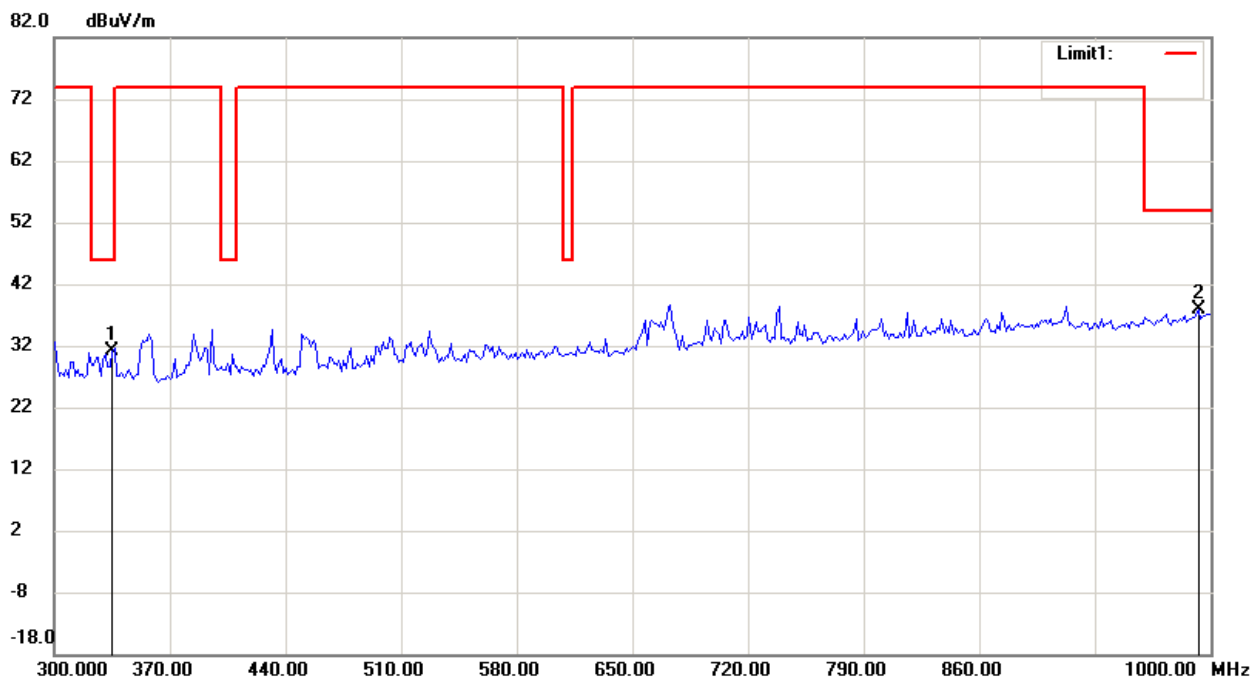
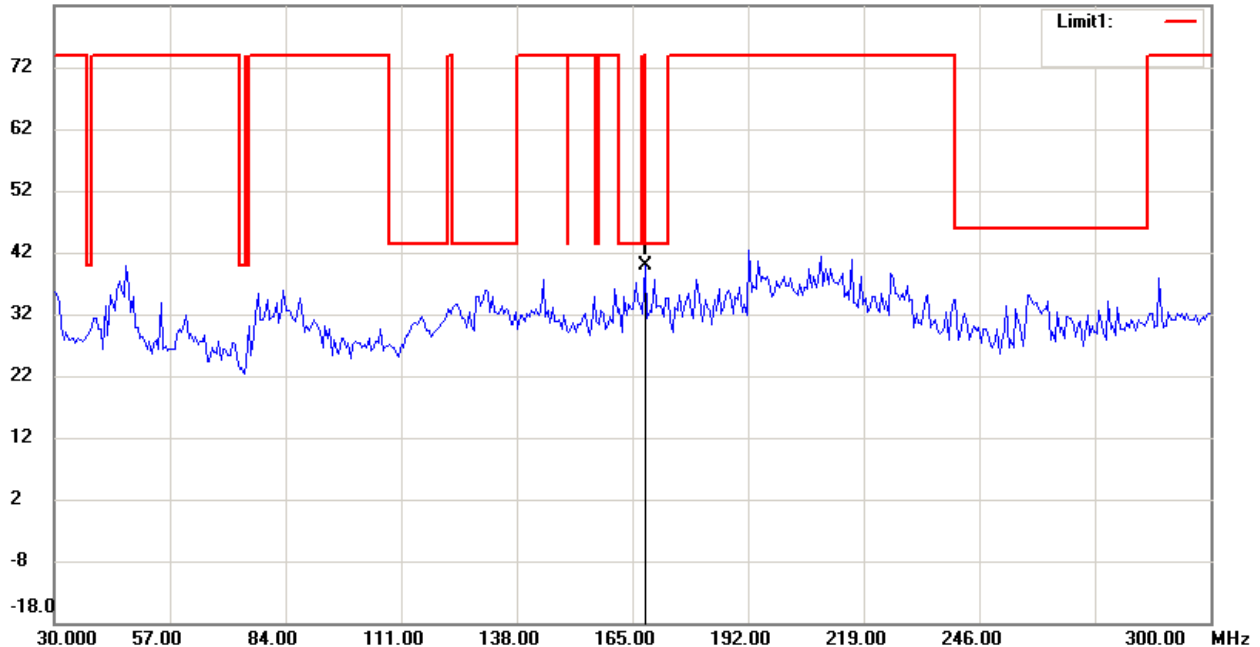


Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Polarization V

82.0 dBuV/m



Note:

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

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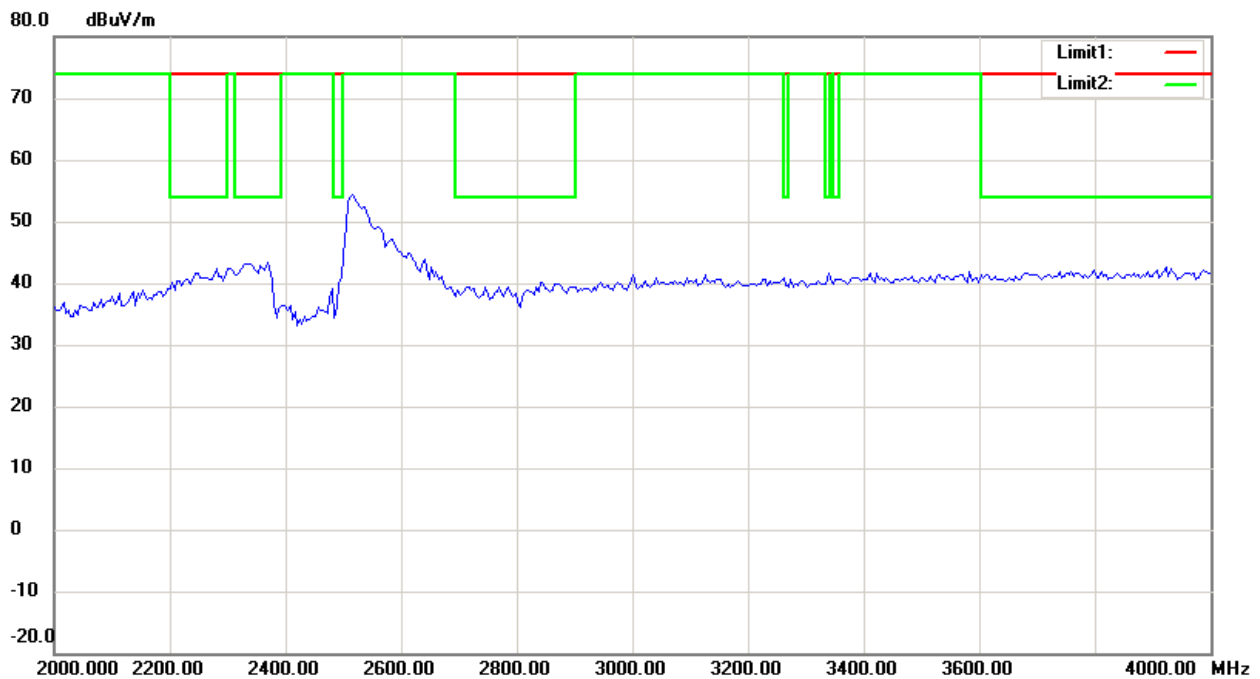
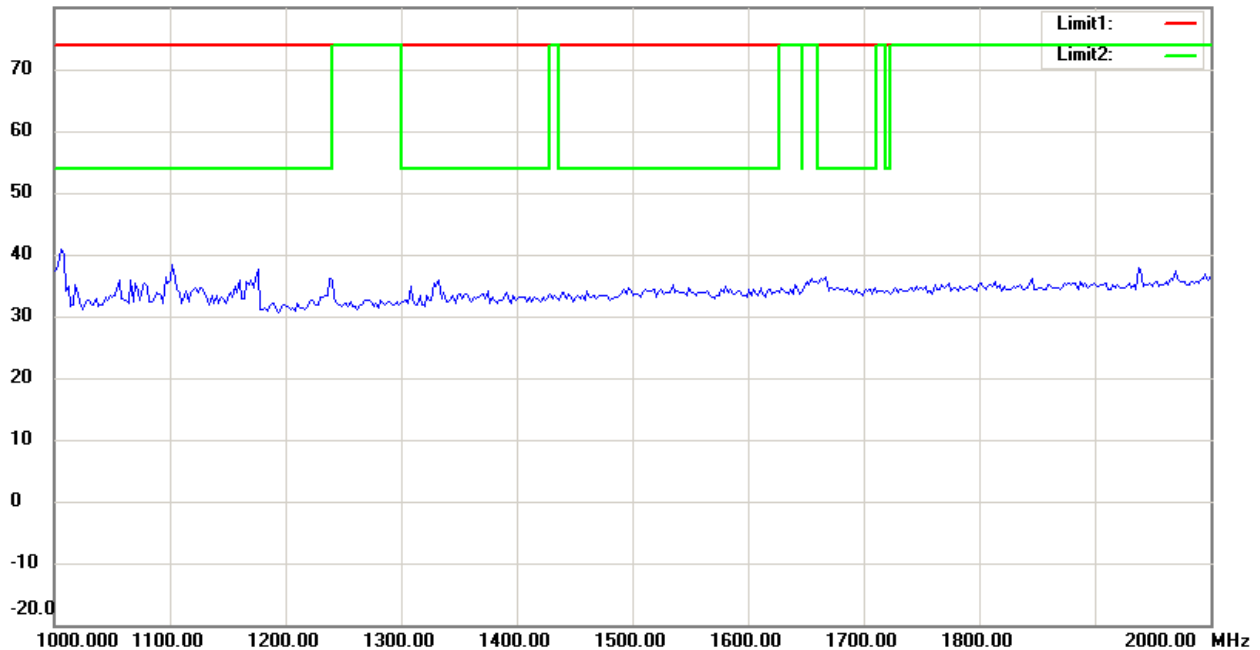


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

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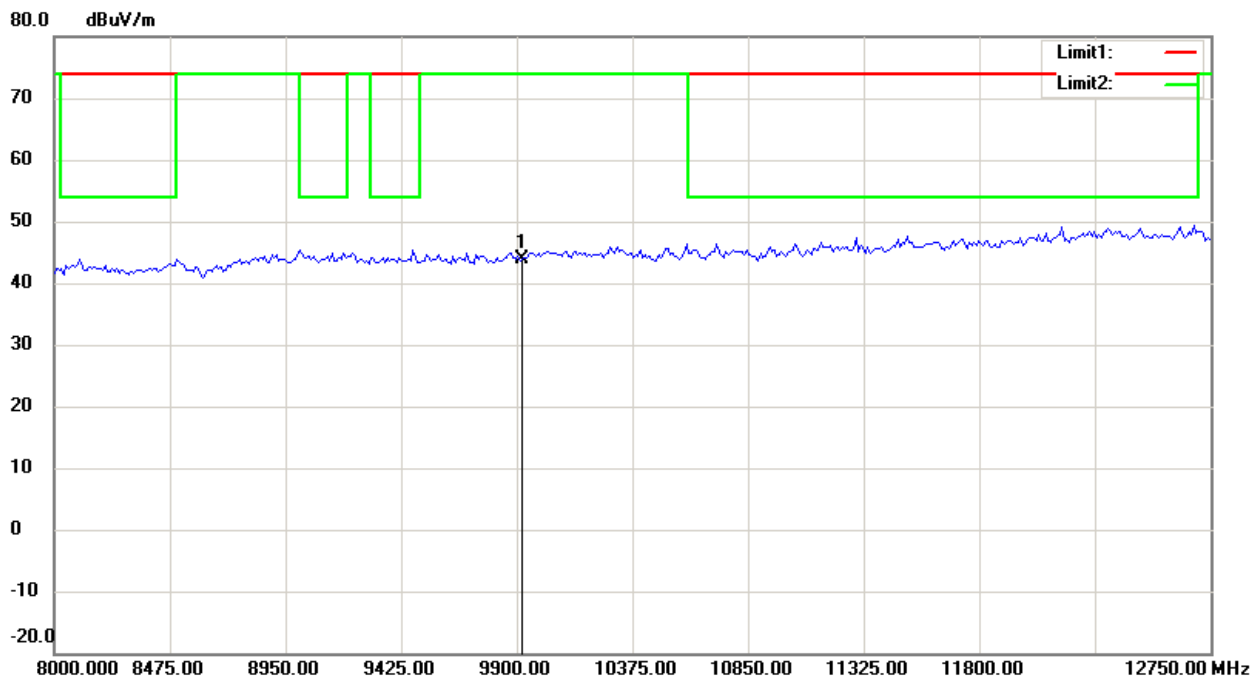
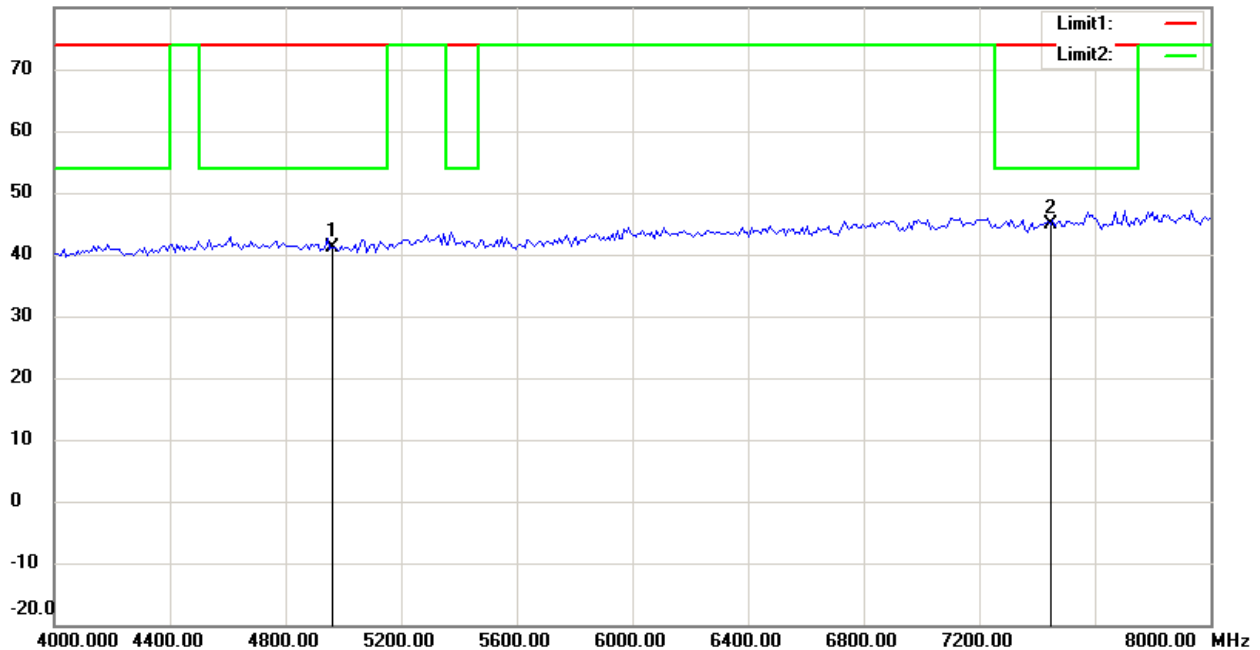


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

80.0 dBuV/m



Note:

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

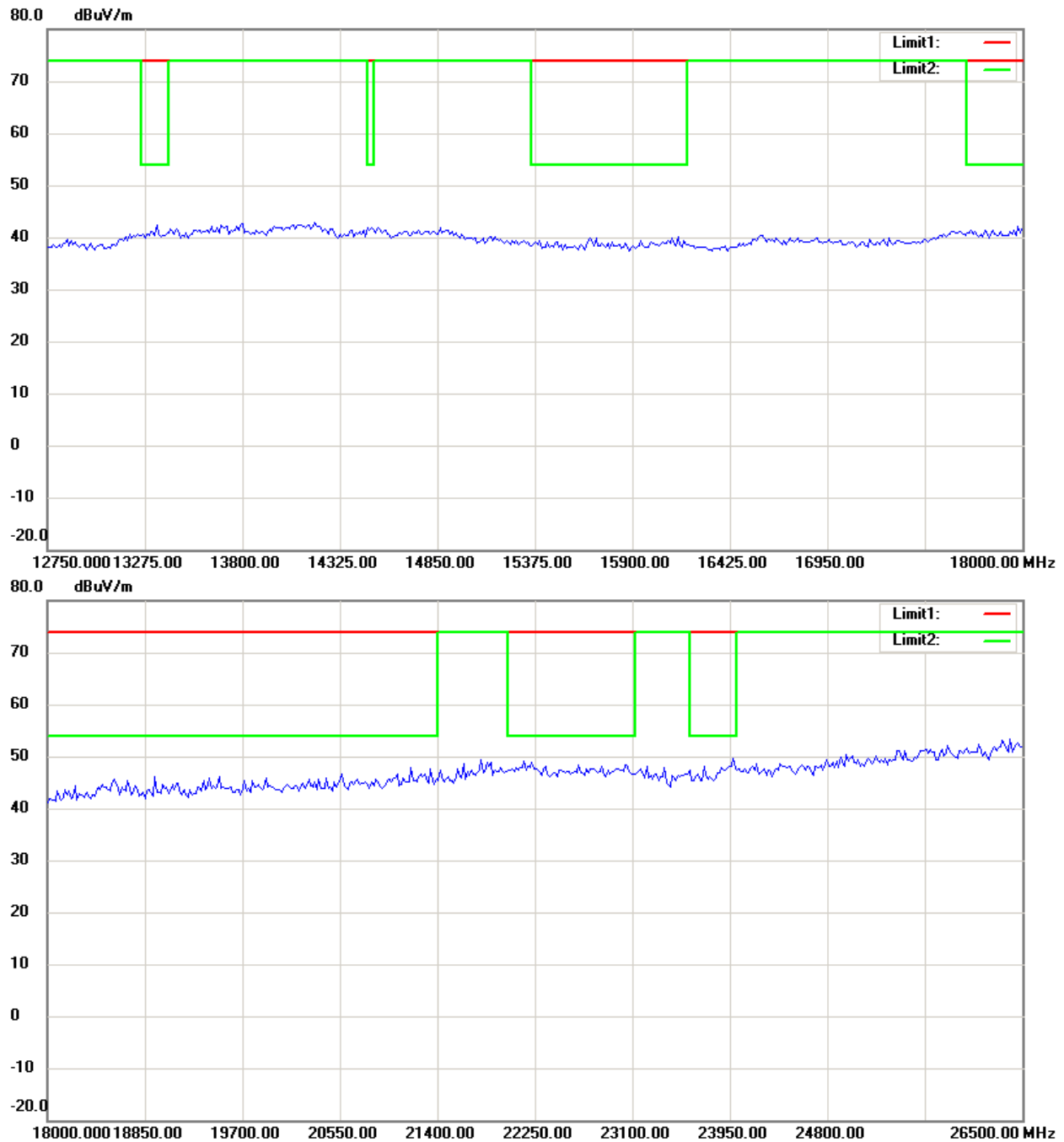
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



Note:

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

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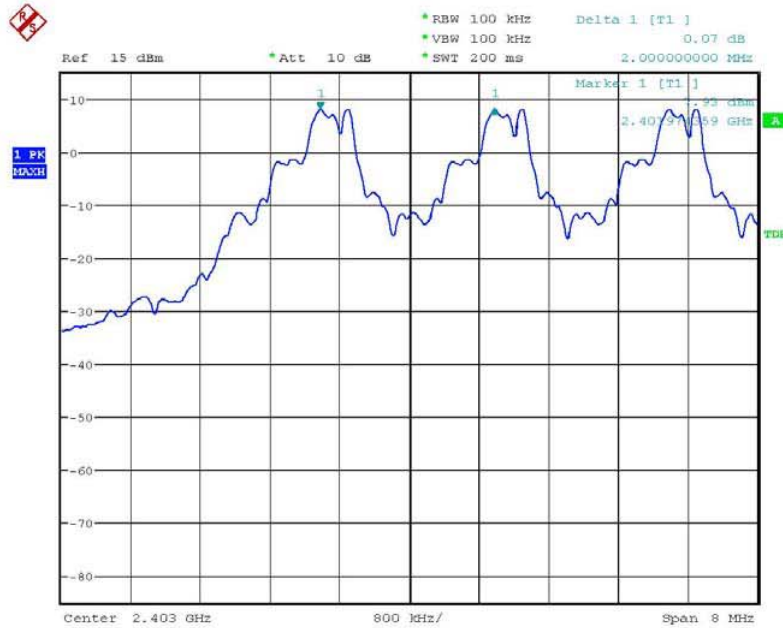


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

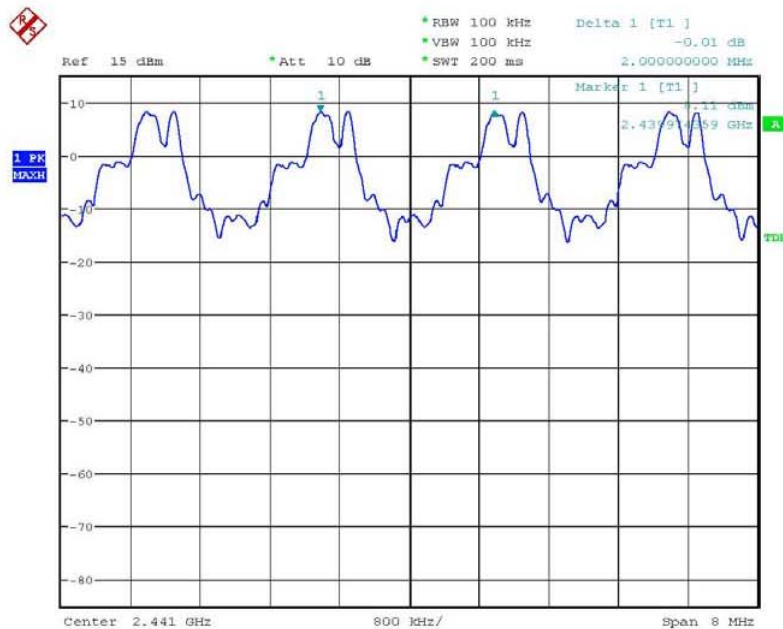
FCC ID: V94-DVC-B22-B

Carrier Frequency Separation



FREQUENCY SEPARATION 2402MHz

Date: 26.OCT.2010 10:26:13



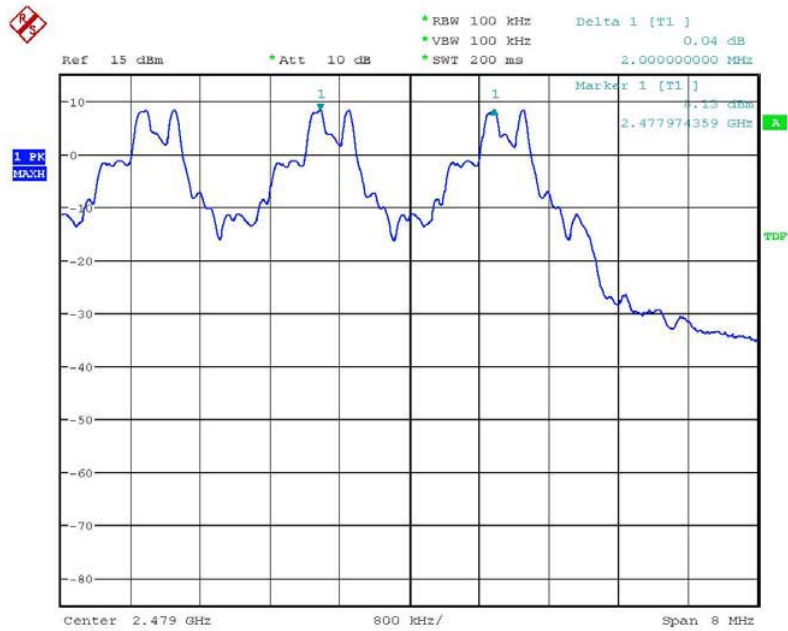
FREQUENCY SEPARATION 2440MHz

Date: 26.OCT.2010 10:27:24



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B



FREQUENCY SEPARATION 2480MHz
Date: 26.OCT.2010 10:28:48



FCC ID: V94-DVC-B22-B

Page 30 of 61

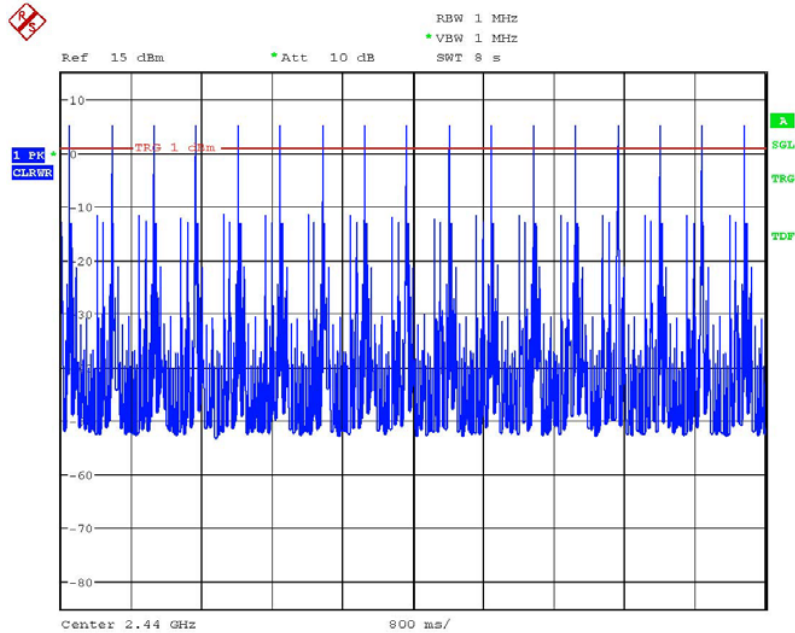


Time of Occupancy (Dwell Time)

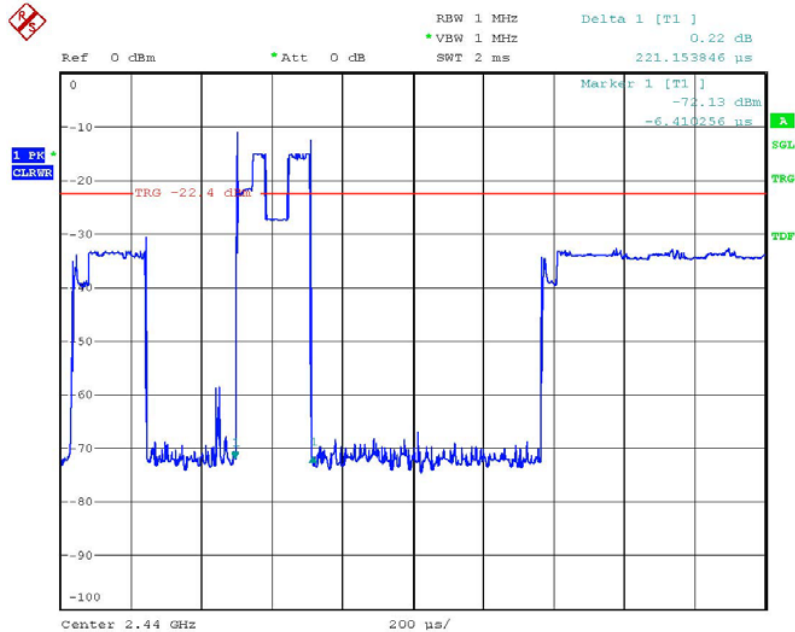


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B



DELL TIME 2440MHz 0.221ms*17=3.757ms
Date: 10.NOV.2010 13:33:11



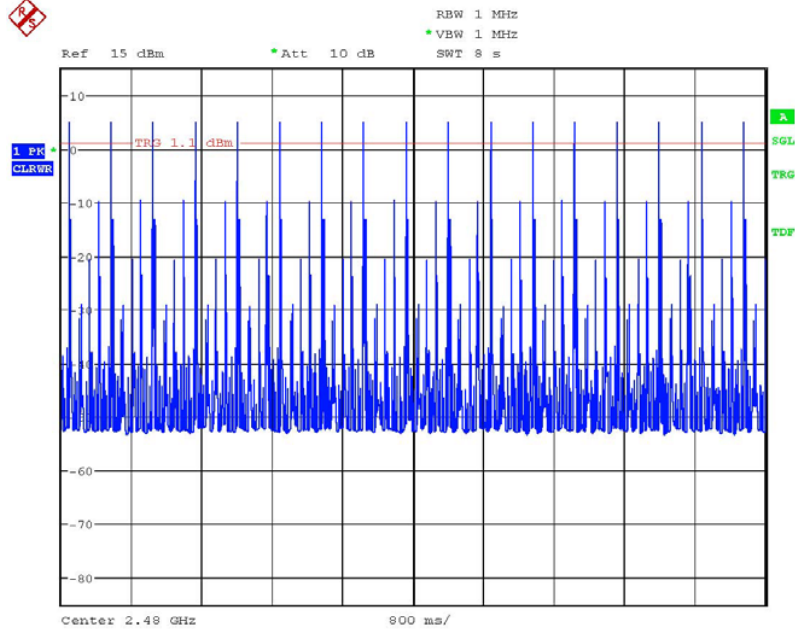
DELL TIME 2440MHz
Date: 10.NOV.2010 13:35:42



Worldwide Testing Services(Taiwan) Co., Ltd.

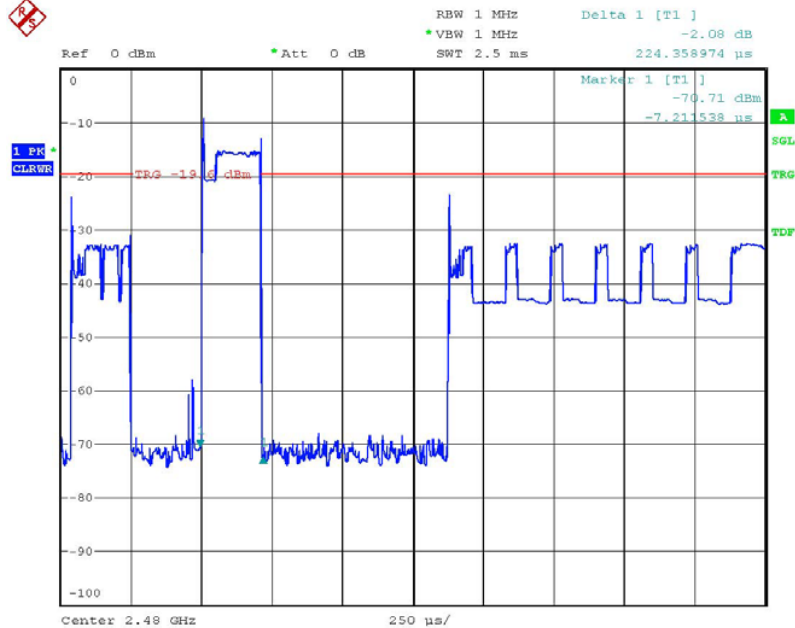
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



DELL TIME 2480MHz 0.224ms*17=3.808ms

Date: 10.NOV.2010 13:12:20



DELL TIME 2480MHz

Date: 10.NOV.2010 13:25:29

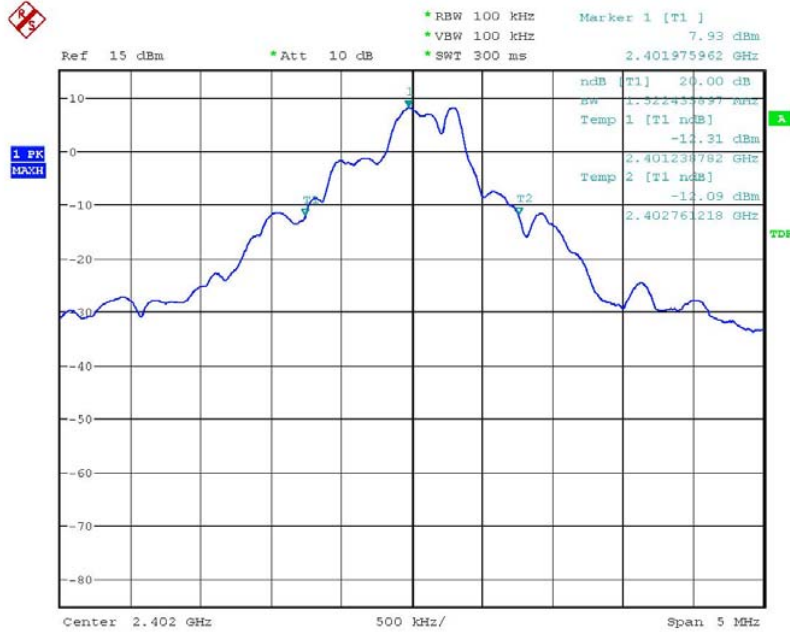


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

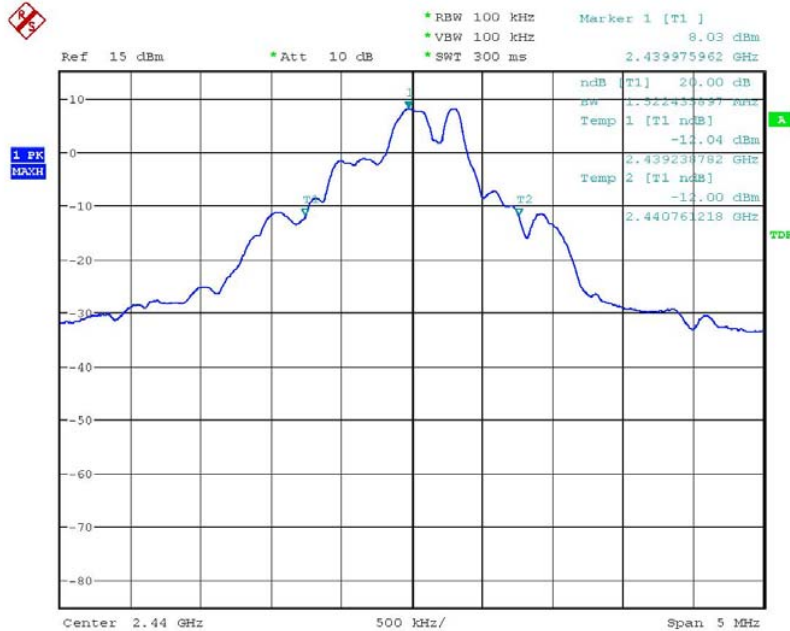
FCC ID: V94-DVC-B22-B

20dB Bandwidth



20DB BANDWIDTH 2402MHz

Date: 26.OCT.2010 10:04:37



20DB BANDWIDTH 2440MHz

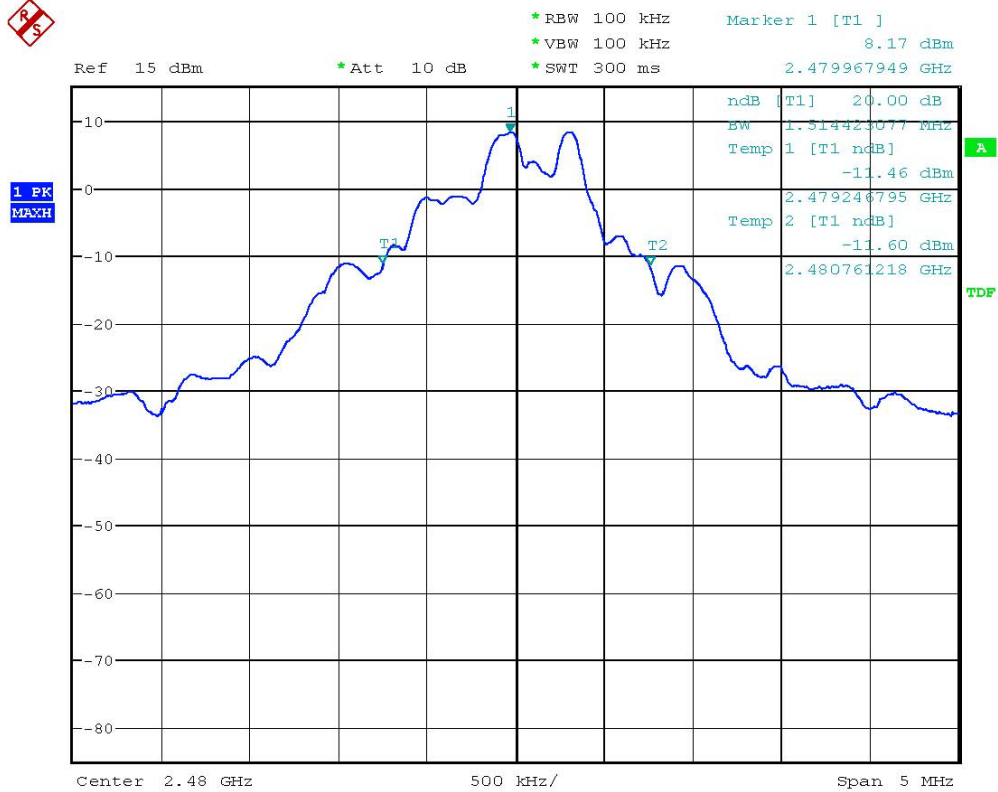
Date: 26.OCT.2010 10:05:25



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



20DB BANDWIDTH 2480MHz

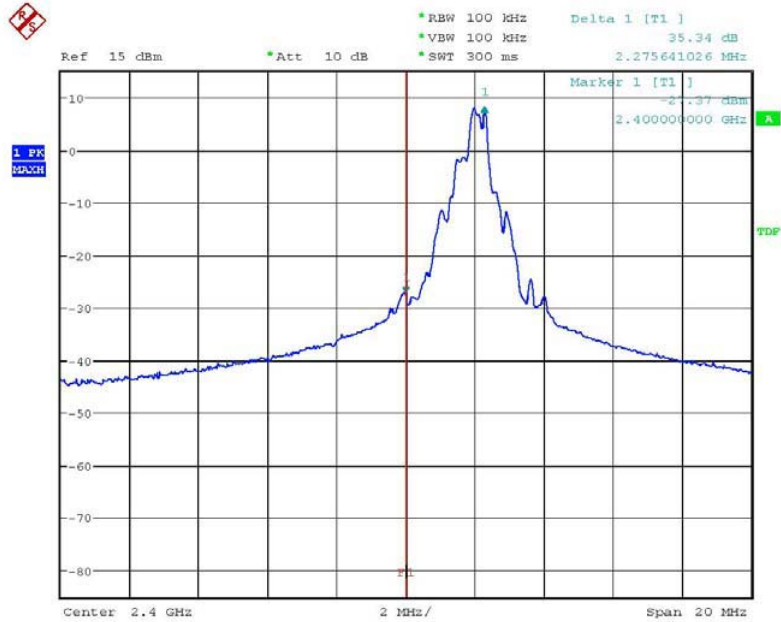
Date: 26.OCT.2010 10:06:11



Registration number: W6M21008-10864-C-1-R

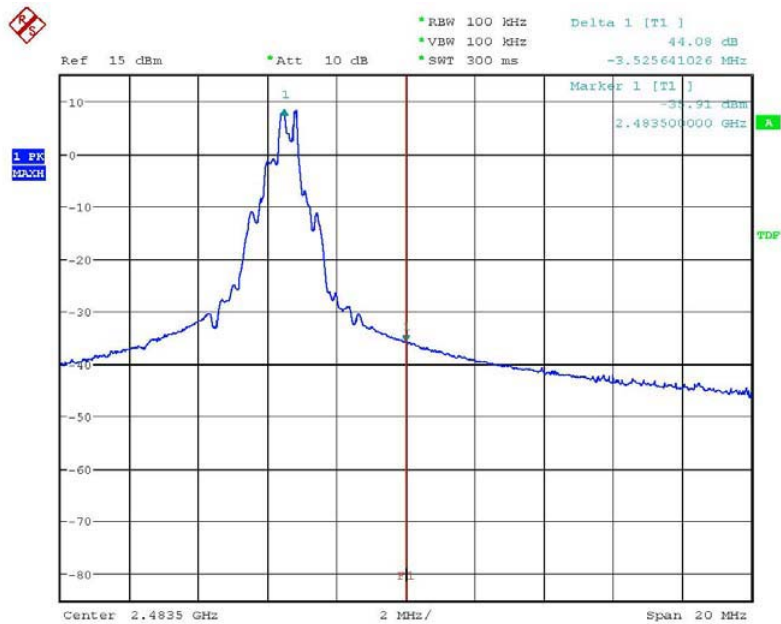
FCC ID: V94-DVC-B22-B

Band-edge Compliance of RF Conducted Emissions



BAND EDGE 2402MHz

Date: 26.OCT.2010 09:54:18



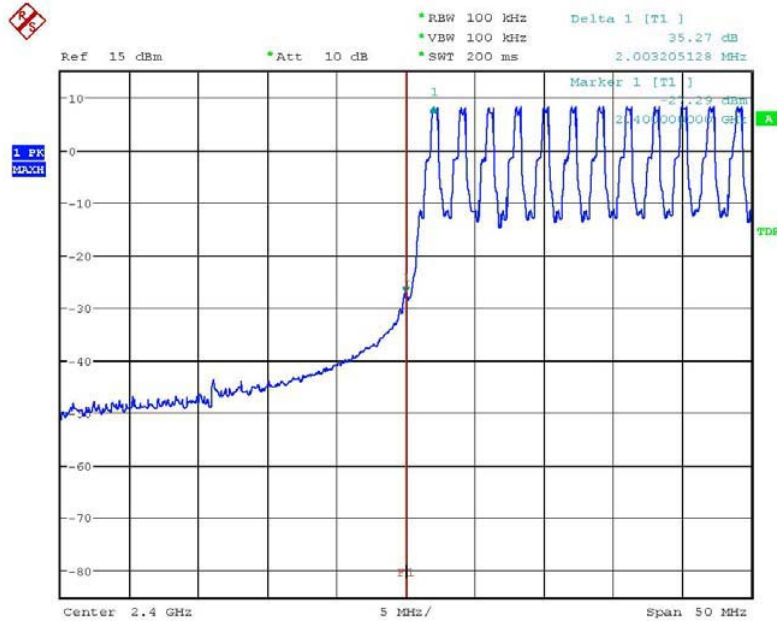
BAND EDGE 2480MHz

Date: 26.OCT.2010 09:53:30

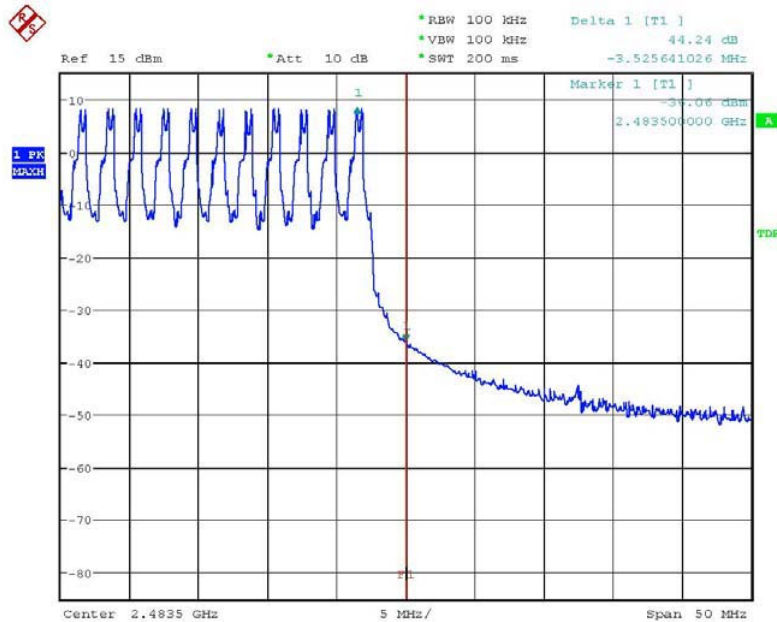


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B



BAND EDGE HOPPING 2402MHz
Date: 26.OCT.2010 11:51:24



BAND EDGE HOPPING 2480MHz
Date: 26.OCT.2010 10:46:02



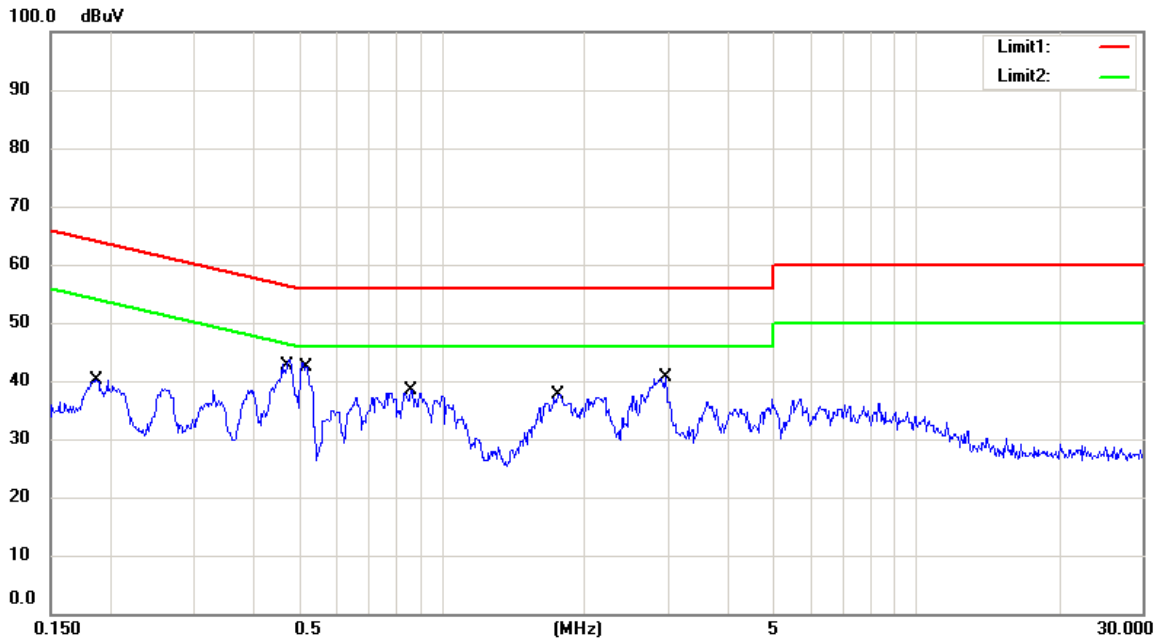
Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

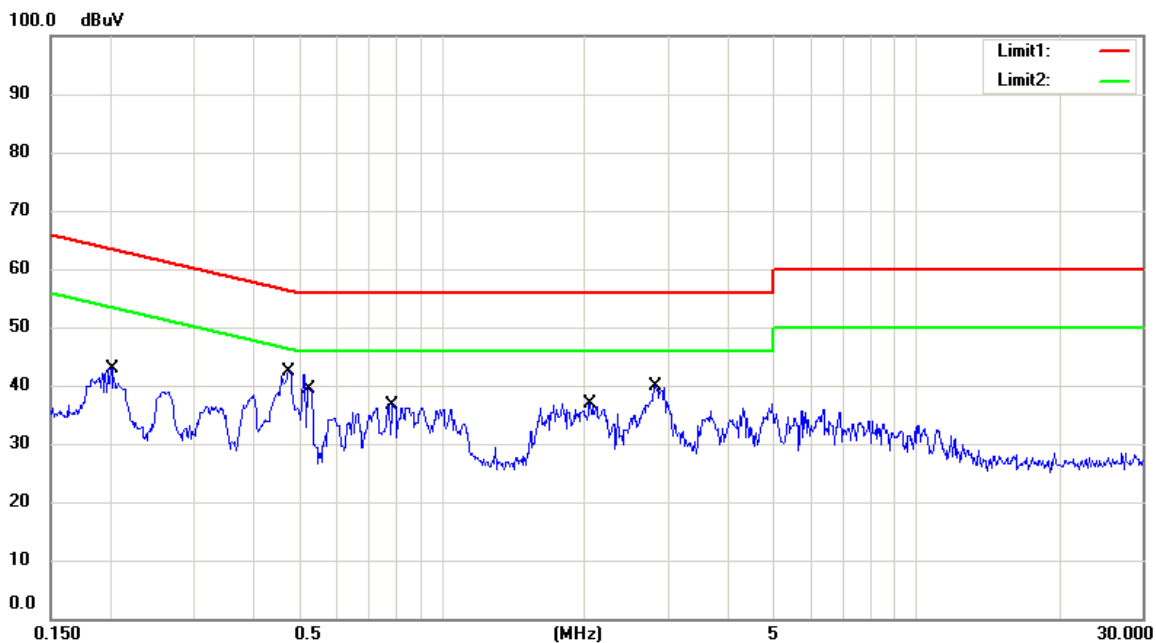
Power Line Conducted Emissions

AV MODE

LISN N



LISN L1



Up Line: QP 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 AC conducted test data of this test report.

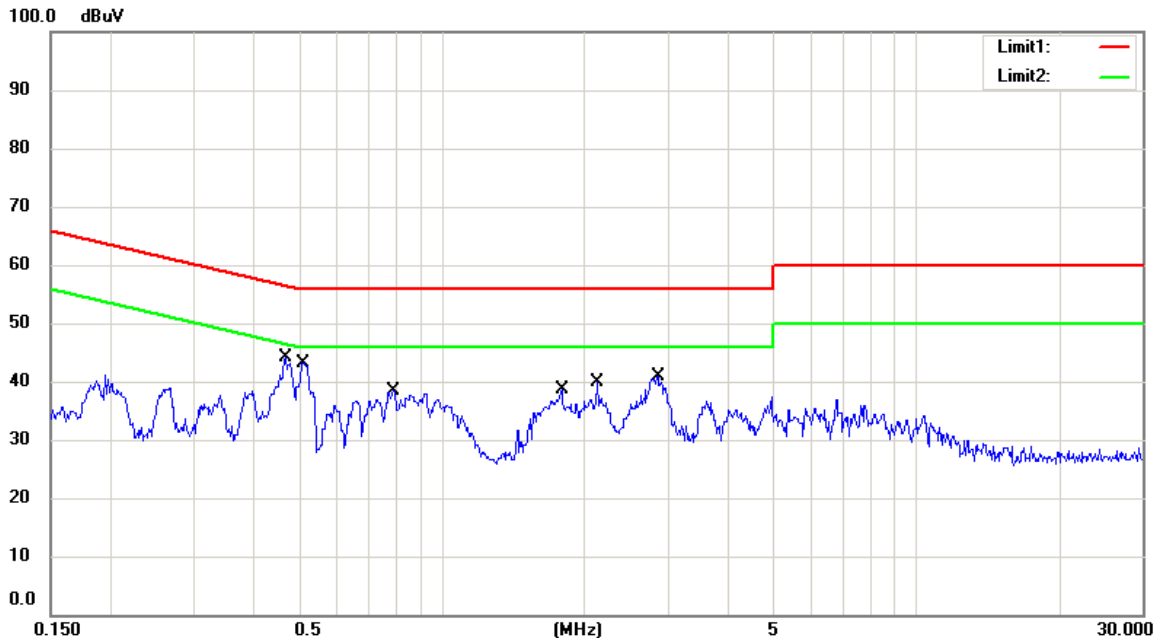


Registration number: W6M21008-10864-C-1-R

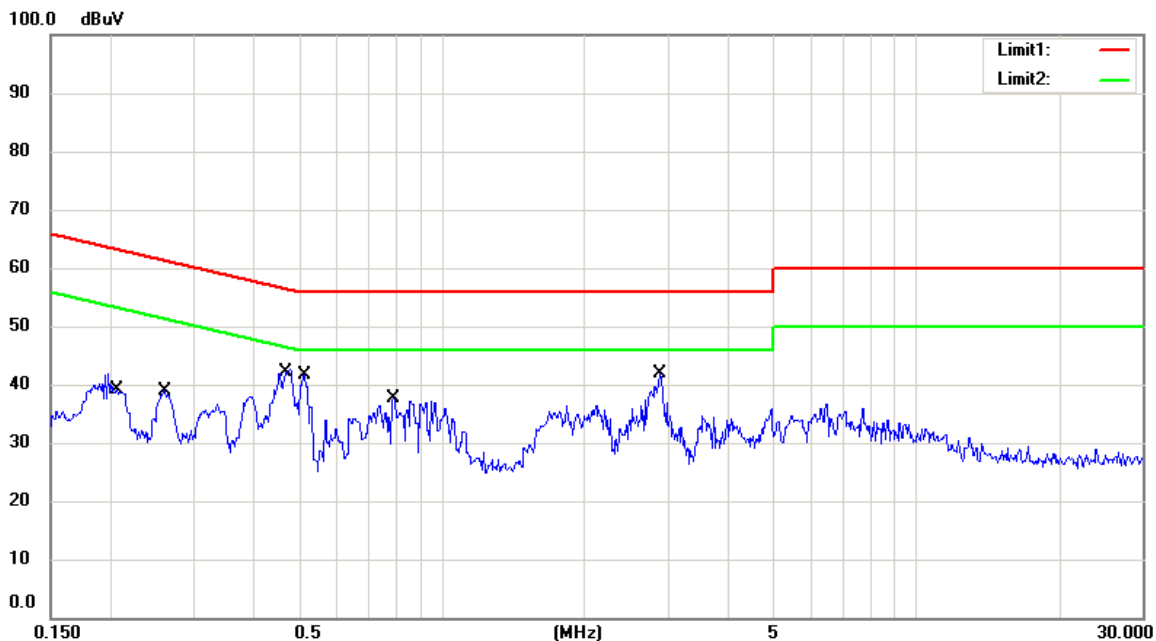
FCC ID: V94-DVC-B22-B

SCART MODE

LISN N



LISN L1



Up Line: QP 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 AC conducted test data of this test report.

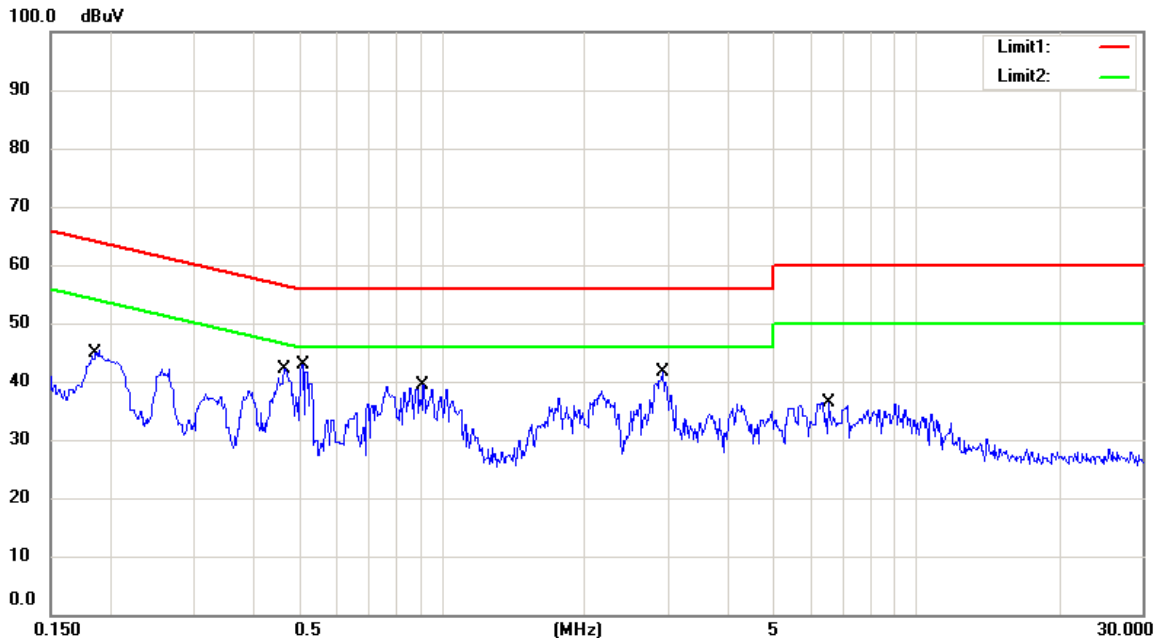


Registration number: W6M21008-10864-C-1-R

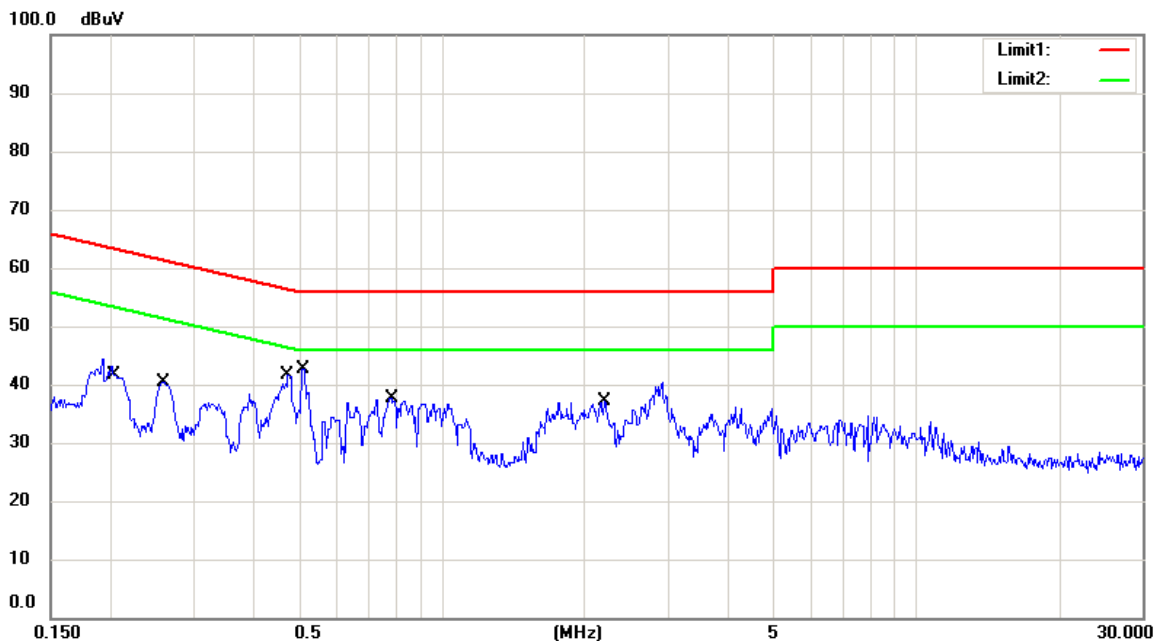
FCC ID: V94-DVC-B22-B

USB MODE

LISN N



LISN L1



Up Line: QP 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 AC conducted test data of this test report.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

External Photos





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: V94-DVC-B22-B





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FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: V94-DVC-B22-B





Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B



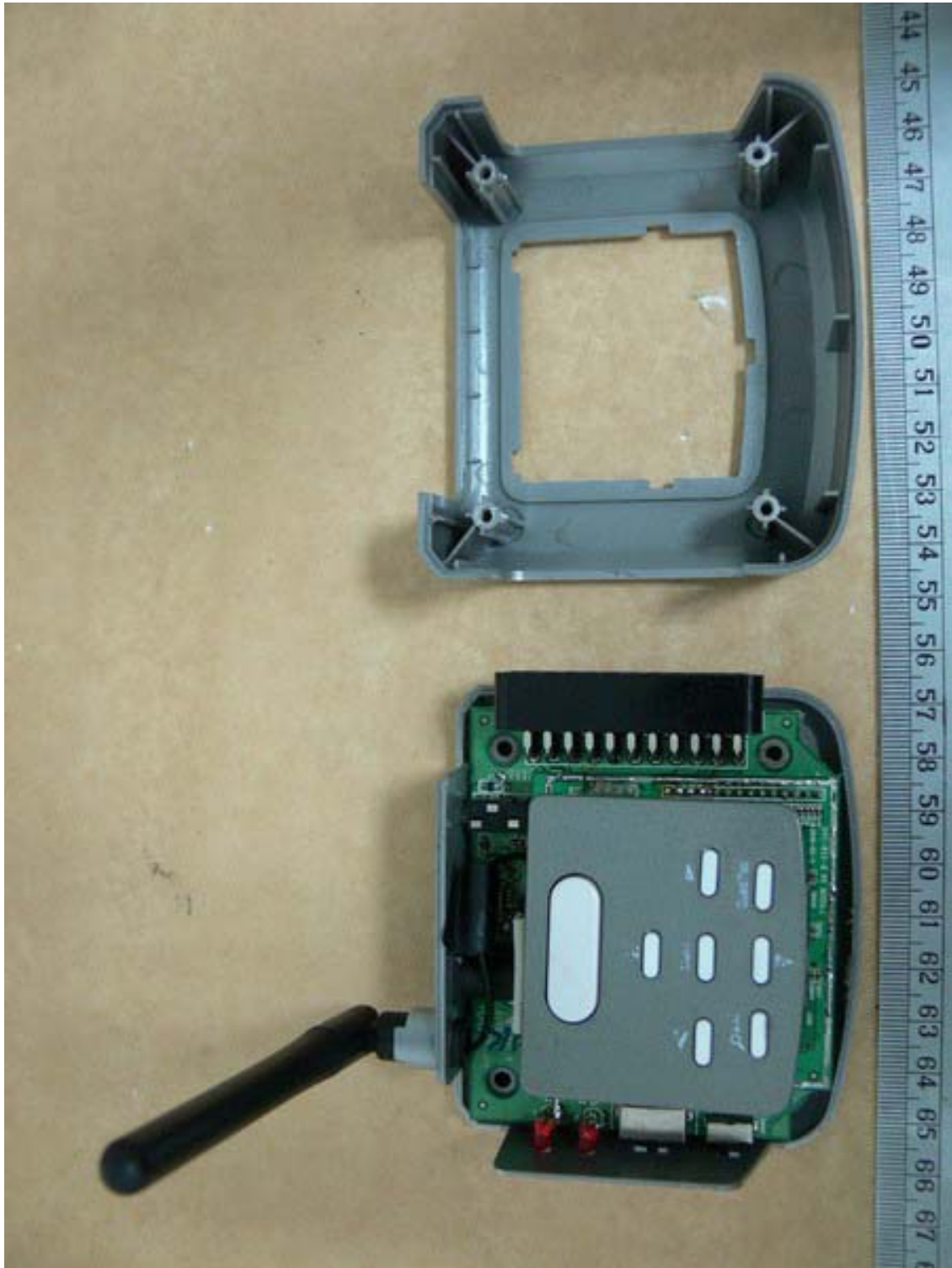


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Internal Photos





Worldwide Testing Services(Taiwan) Co., Ltd.

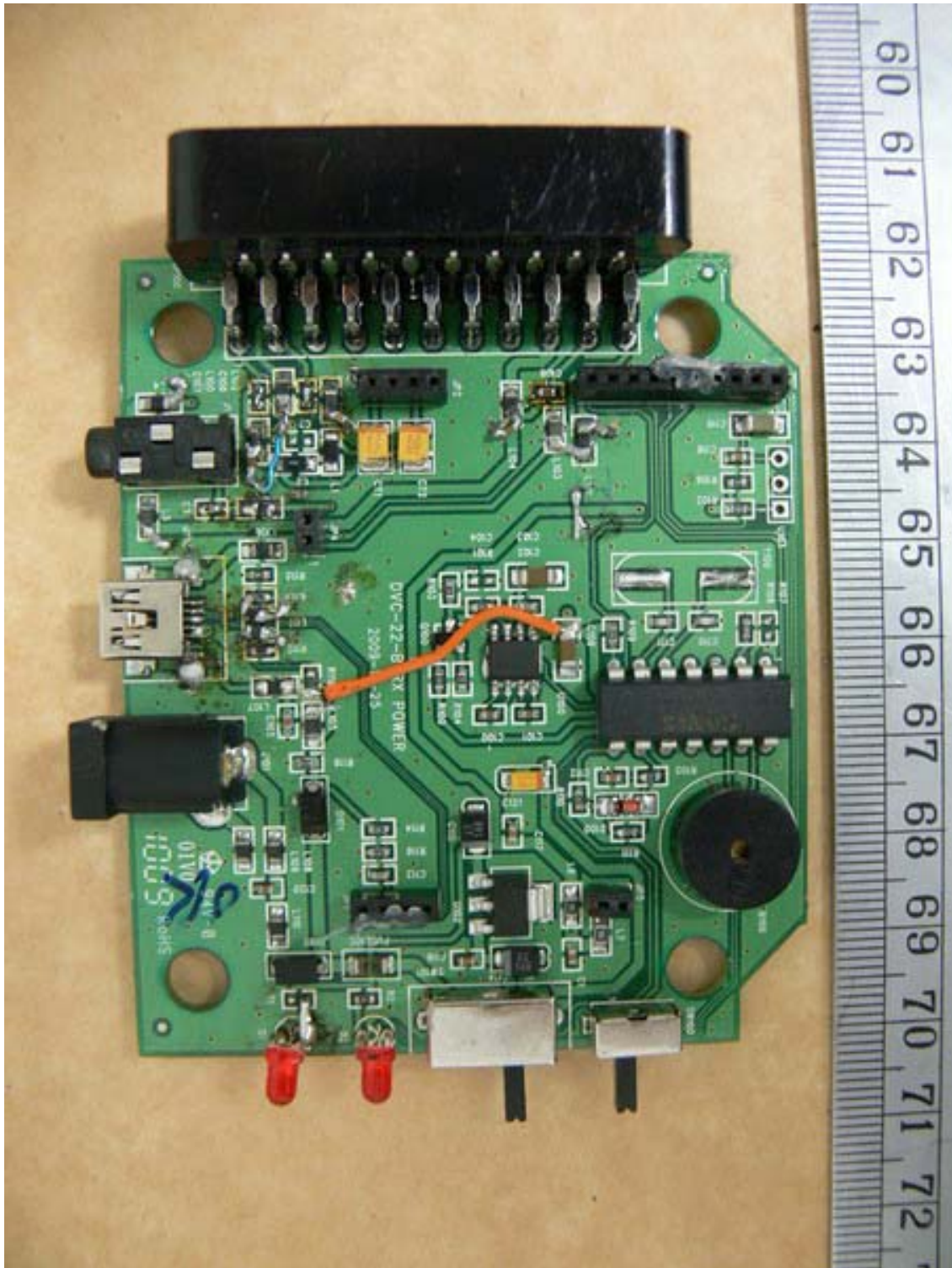
Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

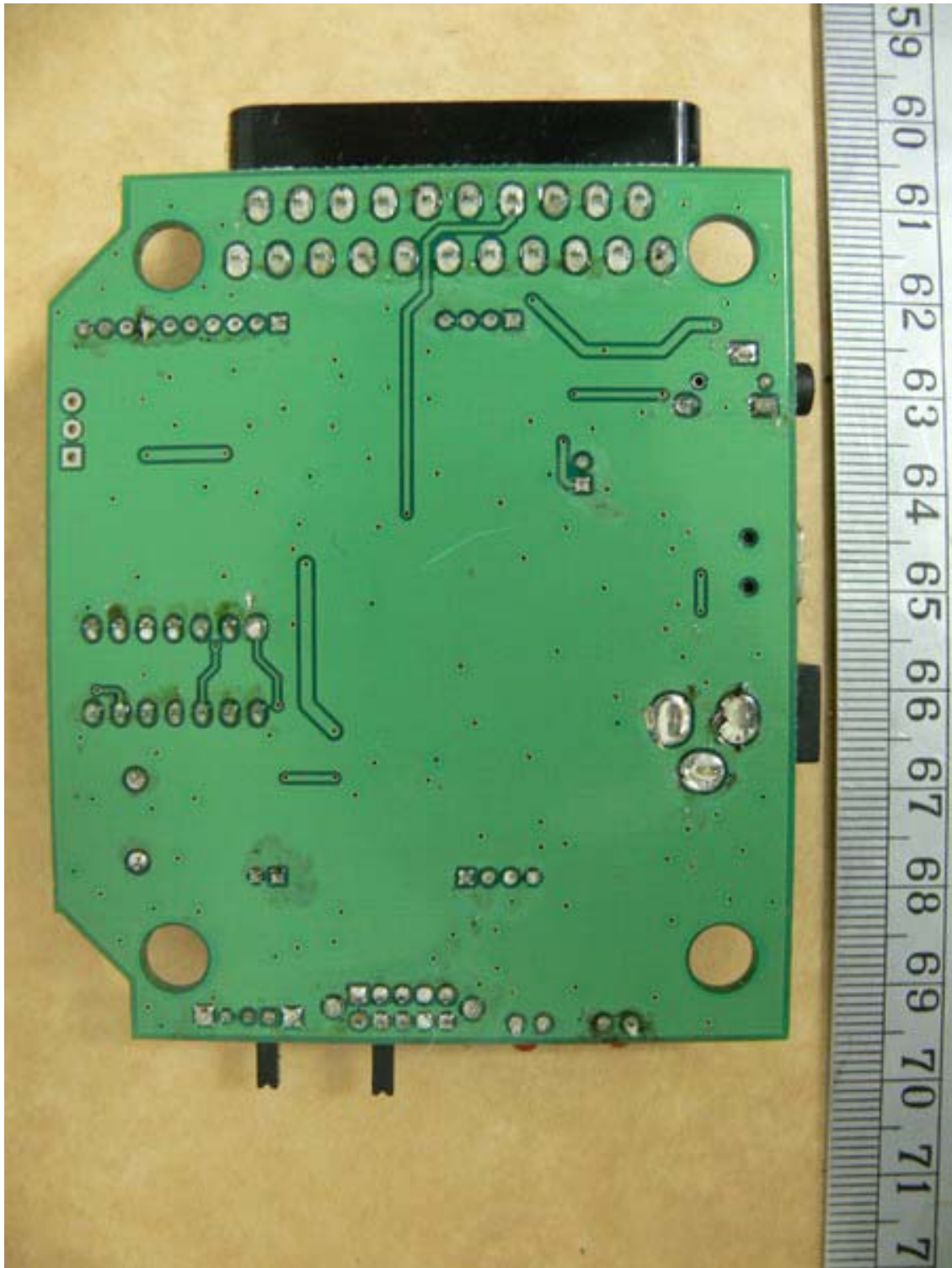
Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

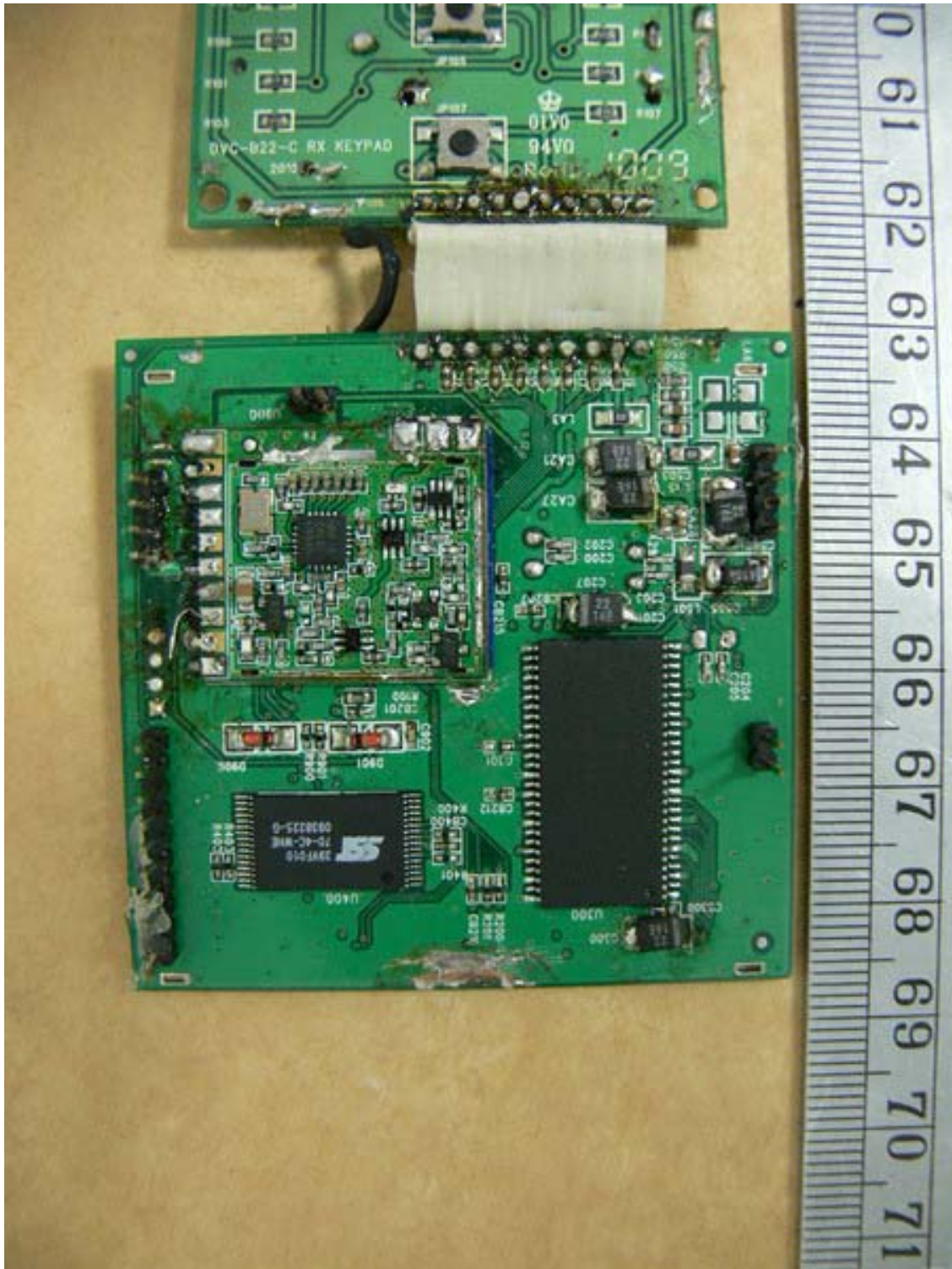
Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

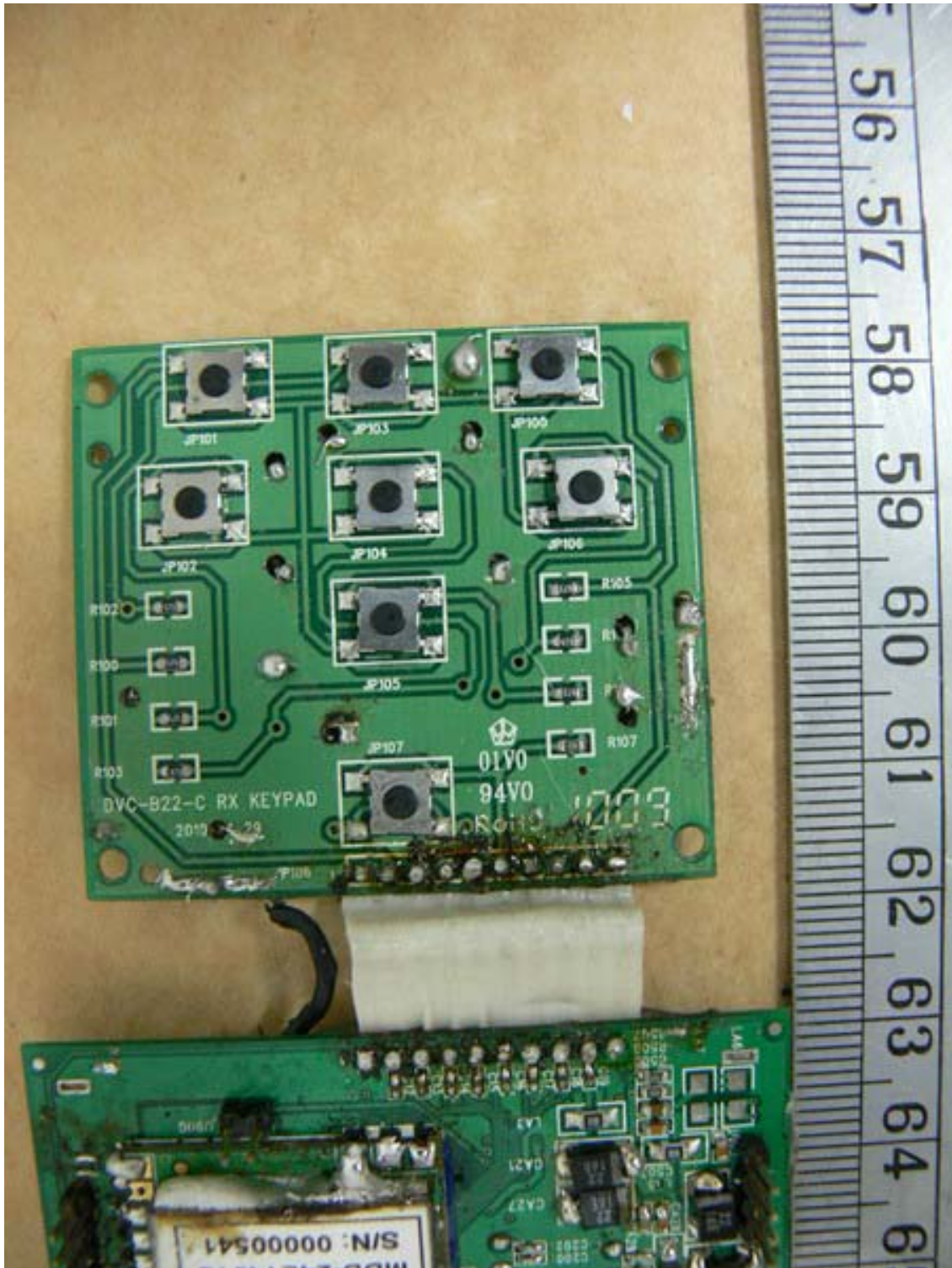
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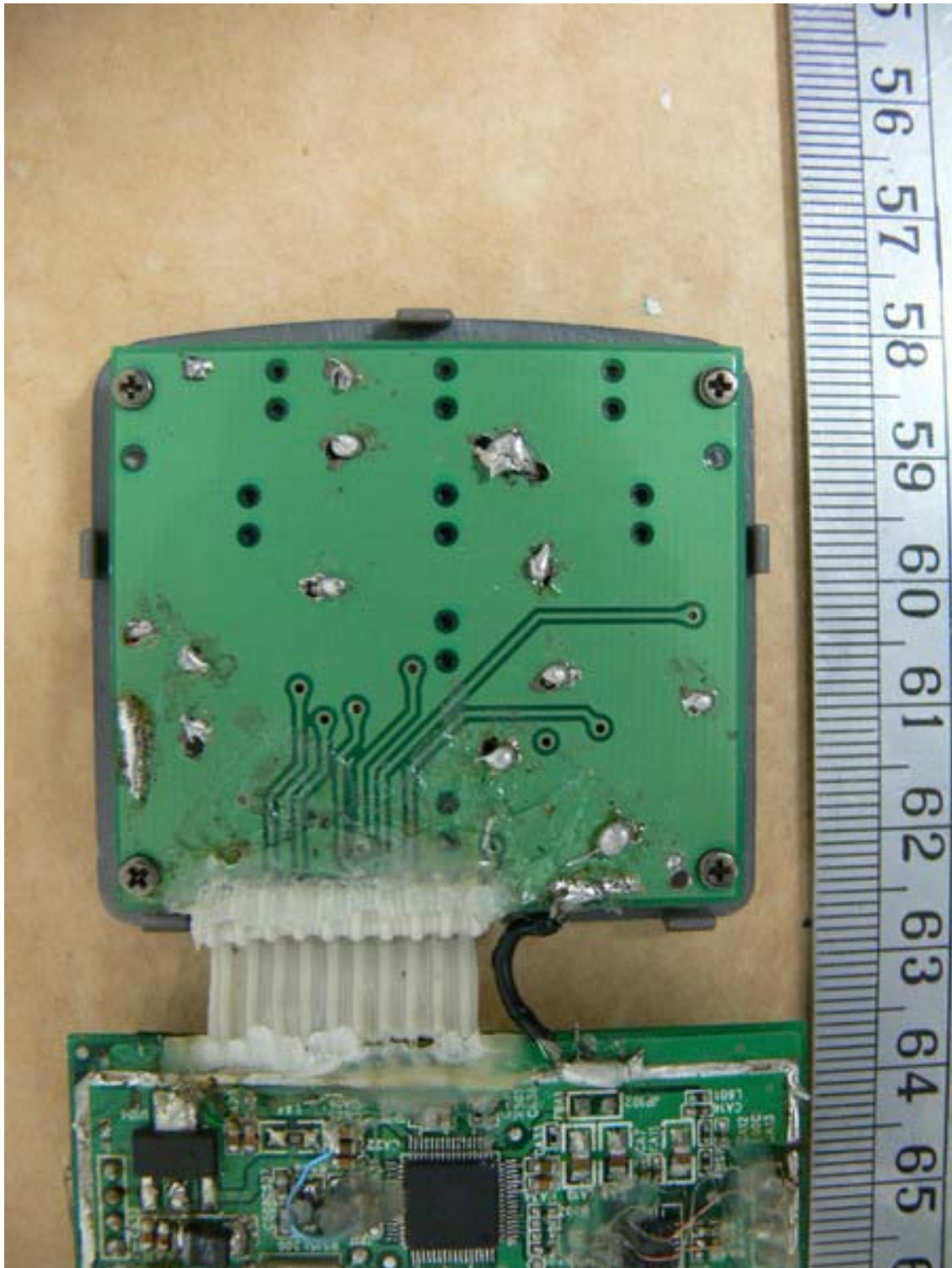
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Registration number: W6M21008-10864-C-1-R
FCC ID: V94-DVC-B22-B





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Set Up Photo of Radiated Emission





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

Set Up Photo of Conducted Emission

AV MODE





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

SCART MODE





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21008-10864-C-1-R

FCC ID: V94-DVC-B22-B

USB MODE

