FCC PART 15 SUBPART C TEST REPORT

for

WiFi Phone

Model No.: MIP200

FCC ID: Q3MMIP200

of

Applicant: G-TEK Electronics Corporation
Address: 16F,106, Sec.1, Hsin-tai 5th Road, Hsi-chih,
Taipei County, 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.: W6M20804-9041-C-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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1 General Information

1.1 Notes

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

The test results of this test report relate exclusively to the item tested as specified in 1.5.
The test report may only be reproduced or published in full.
Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

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

Tester:

July 21, 2008		Jay Chaing	Jay Chaing
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

July 21, 2008		Steven Chuang	Steven Chuang
Date	WTS	Name	Signature

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:	G-TEK Electronics Corporation
Street:	16F,106, Sec.1, Hsin-tai 5th Road,
Town:	Hsi-chih, Taipei County,
Country:	Taiwan, R.O.C.
Telephone:	886-2-2696-2665
Fax:	886-2-2696-2667

1.4 Application details

Date of receipt of test item:	July 03, 2008
Date of test:	from July 04, 2008 to July 17, 2008

1.5 General information of Test item

Type of test item:	WiFi Phone
Model Number:	MIP200
Brand Name:	G-TEK, Moya MultiMedia, MPINGI Inc., FON.com, ITS Telecom, Dhanus Technologies Ltd., British Telecom, Rover Computers
Multi-listing model number:	SWVP-280 (Brand Name: Solomon)
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:	PIFA type
Antenna gain:	-1.79 dBi
Power supply:	Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.2 A, O/P: 5 Vdc / 500 mA / 3 W MAX) Battery (3.7 V / 1200 mA)
Emission designator:	DSSS: 16M4G1D OFDM: 16M6W7D

Host device: none

Classification:

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

Transmitter **Unom**

Mode A (DSSS)

Power (ch 1 or A): Conducted: 22.17 dBm

Power (ch 6 or B): Conducted: 22.51 dBm

Power (ch 11 or C): Conducted: 22.07 dBm

Mode B (OFDM)

Power (ch 1 or A): Conducted: 21.54 dBm

Power (ch 6 or B): Conducted: 21.79 dBm

Power (ch 11 or C): Conducted: 21.55 dBm

Manufacturer: (if applicable)

Name: G-TEK Electronics Sdn Bhd
Street: 2493, Mukim 1. Lorong Perusahaan Lapan,
Town: Kawasan Perindustrian Perai, Perai, Penang,
Country: 13600 Malaysia

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 (2007-10)

2 Technical test

2.1 Summary of test results

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

or

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

2.2 Test environment

Temperature:	23 °C
Relative humidity content:	20 ... 75 %
Air pressure:	86 ... 103 kPa
Power supply:	Adaptor (I/P: AC 100-240 V / 50-60 Hz / 0.2 A, O/P: 5 Vdc / 500 mA / 3 W MAX) Battery (3.7 V / 1200 mA)
Extreme conditions parameters:	./.

2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2007/10/15	2008/10/14
ETSTW-CE 002	PREREULATOR 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	2007/10/15	2008/10/14
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2007/10/15	2008/10/14
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	2007/10/23	2009/10/22
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2007/8/2	2008/8/1
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2007/11/2	2009/11/1
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2008/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2007/10/29	2008/10/28
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2007/10/12	2009/10/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2007/12/3	2008/12/2
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2007/10/29	2008/10/28
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2007/10/11	2008/10/12
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
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	2010/5/4
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2007/11/7	2010/11/6
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2007/10/9	2008/10/8
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2008/4/23	2010/4/22
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2008/4/23	2010/4/22
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2008/3/26	2010/3/25
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2007/10/9	2008/10/8
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2008/6/27	2009/6/26

ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2007/10/16	2009/10/15
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	2010/5/1
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2008/5/22	2010/5/21
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	2005/3/22	2009/3/21
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	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2007/7/2	2009/7/1

2.4 General Test Procedure

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

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 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 dBµV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

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

The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 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.

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

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

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

3 Test results (enclosure)

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

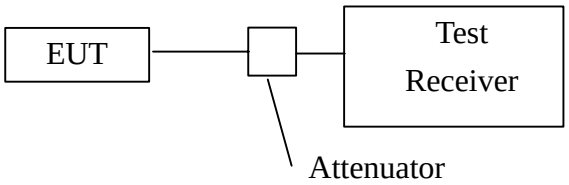
The follows is intended to leave blank.

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).

3.1.1 Test setup



3.1.2 Test results

Mode A

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 120 V	[dBm]	[dBm]	[dBm]
		22.17	22.51	22.07

Mode B

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
T_{nom}= 23°C	V_{nom} = 120 V	[dBm]	[dBm]	[dBm]
		21.54	21.79	21.55

Test condition T_{nom}= 23°C, V_{nom} = 120 V	Signal Field strength TX highest power mode dB μ V/m
Frequency [MHz]	--
--	

Limits:

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

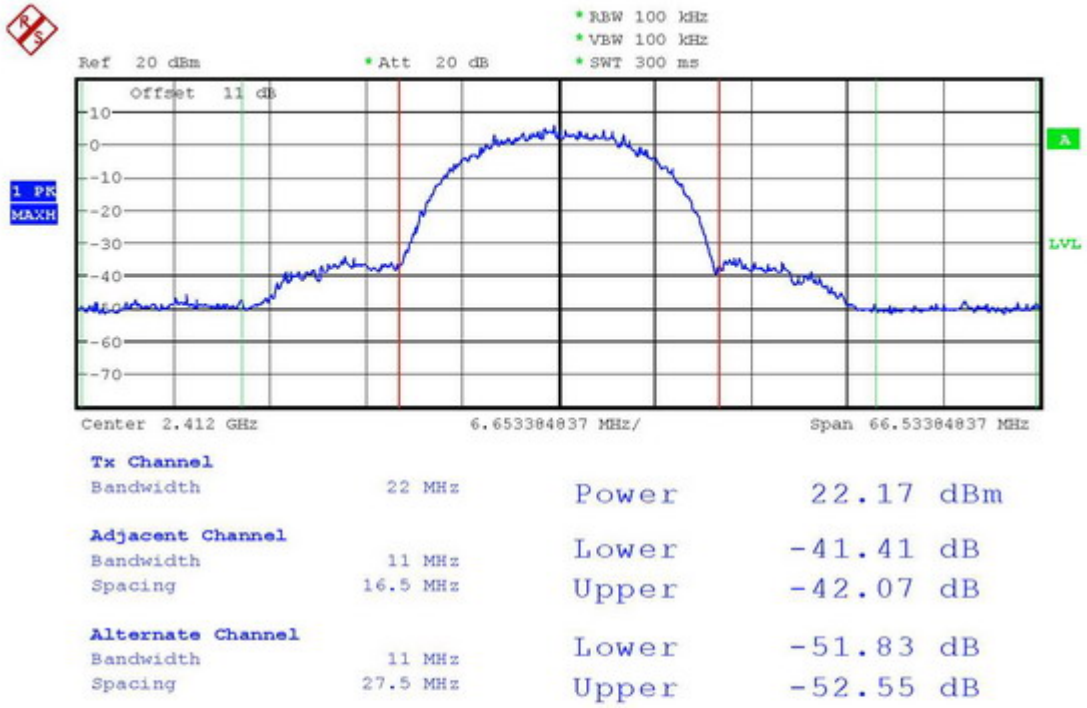
In case of employing transmitter antennas having antenna gain $>$ 6 dBi and using fixed point-to point operation consider §15.247 (b)(4)

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

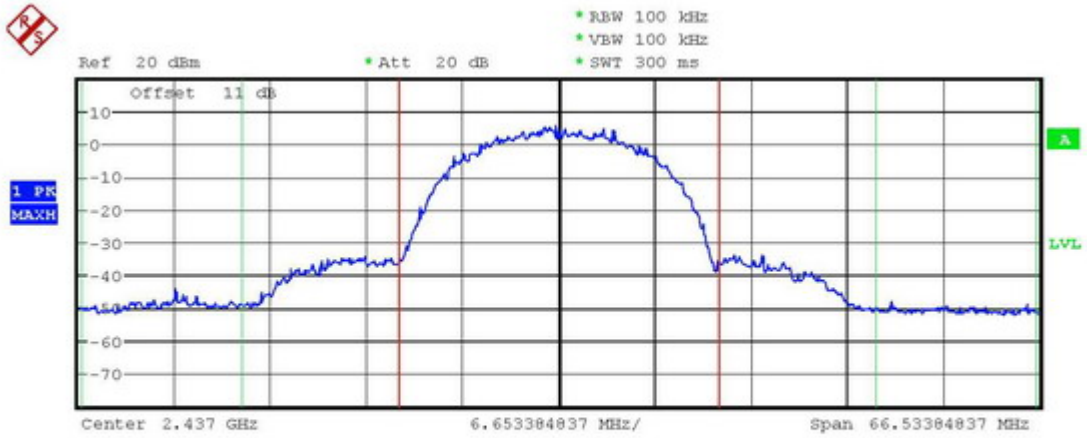
Explanation: The diagrams for the peak output power measurements are included in Appendix.

3.1.3 Measurement diagrams

Mode A



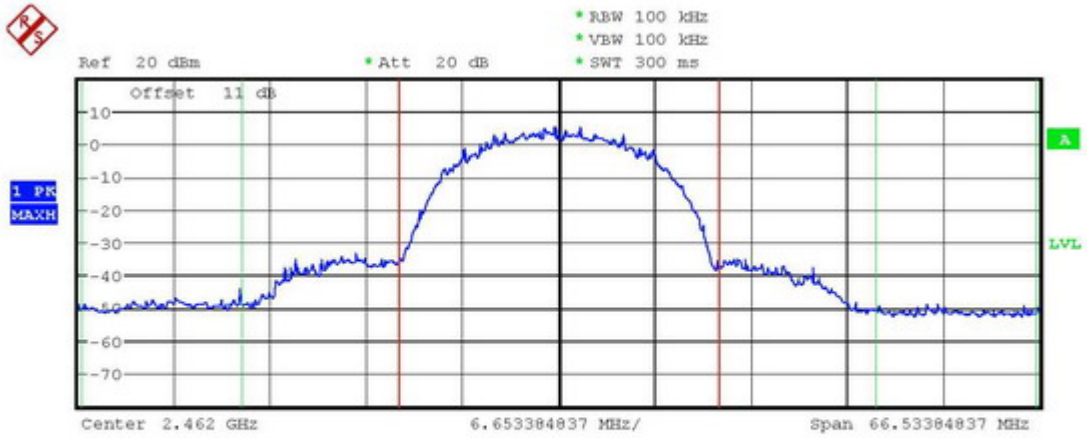
MAX OUTPUT POWER 802.11b CH1
Date: 10.JUL.2008 08:51:48



Tx Channel			
Bandwidth	22 MHz	Power	22.51 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.63 dB
Spacing	16.5 MHz	Upper	-41.59 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-51.74 dB
Spacing	27.5 MHz	Upper	-53.46 dB

MAX OUTPUT POWER 802.11b CH6

Date: 10.JUL.2008 08:52:21

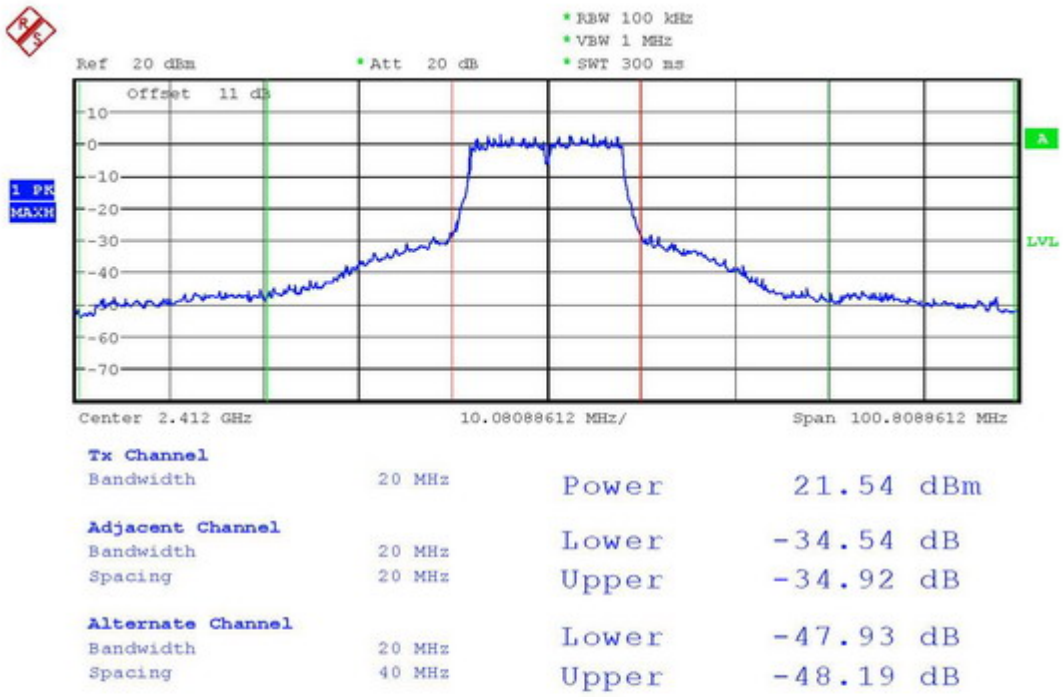


Tx Channel			
Bandwidth	22 MHz	Power	22.07 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.14 dB
Spacing	16.5 MHz	Upper	-42.19 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-51.48 dB
Spacing	27.5 MHz	Upper	-53.57 dB

MAX OUTPUT POWER 802.11b CH11

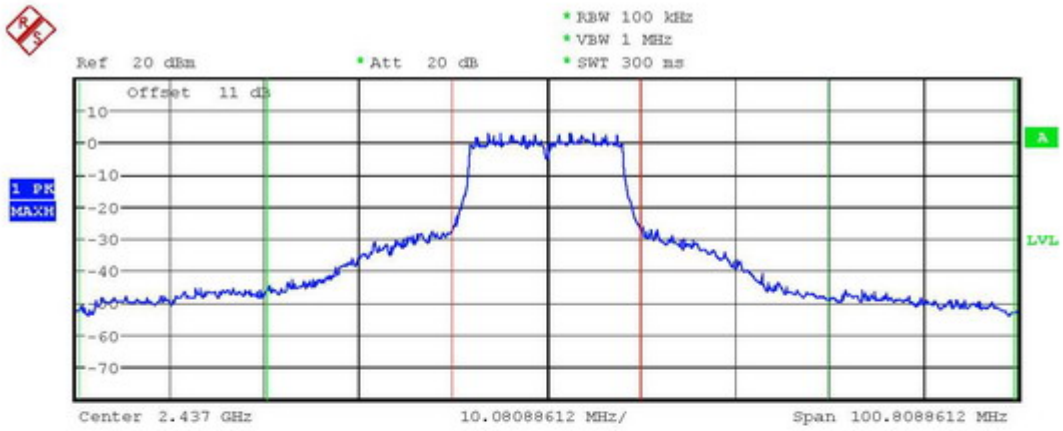
Date: 10.JUL.2008 08:53:52

Mode B



MAX OUTPUT POWER 802.11g CH1

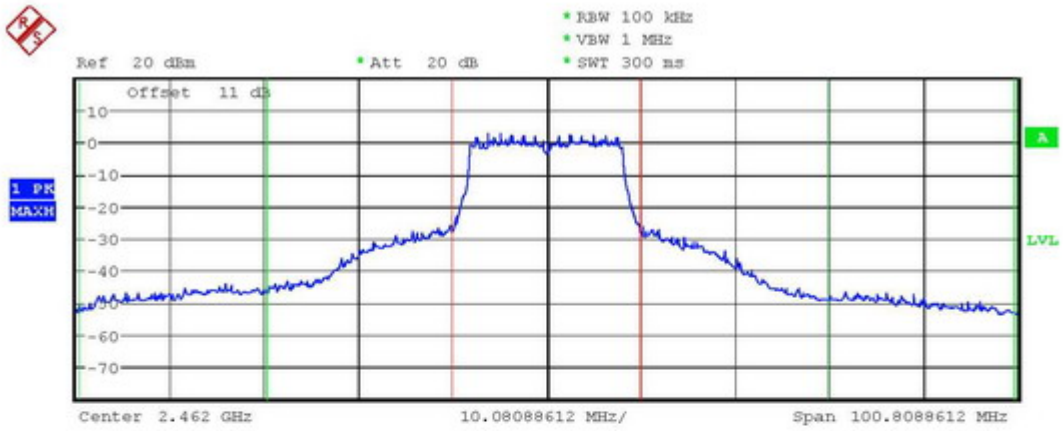
Date: 10.JUL.2008 08:55:07



Tx Channel			
Bandwidth	20 MHz	Power	21.79 dBm
Adjacent Channel			
Bandwidth	20 MHz	Lower	-32.74 dB
Spacing	20 MHz	Upper	-33.46 dB
Alternate Channel			
Bandwidth	20 MHz	Lower	-47.70 dB
Spacing	40 MHz	Upper	-48.92 dB

MAX OUTPUT POWER 802.11g CH6

Date: 10.JUL.2008 08:54:48



Tx Channel			
Bandwidth	20 MHz	Power	21.55 dBm
Adjacent Channel			
Bandwidth	20 MHz	Lower	-31.92 dB
Spacing	20 MHz	Upper	-33.13 dB
Alternate Channel			
Bandwidth	20 MHz	Lower	-46.78 dB
Spacing	40 MHz	Upper	-49.08 dB

MAX OUTPUT POWER 802.11g CH11

Date: 10.JUL.2008 08:54:30

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain
EIRP = 22.51 dBm - 1.79dBi
= 20.79 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	178.23788	Peak value
D	dB		
AG	dBi	1	
G		1.3	Calculated Value
R	cm	20	Assumed value
S	mW/cm^2	0.046	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm^2)
1500 – 100.000	1,0

3.4 Transmitter Radiated Emissions in Restricted Bands

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

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

Limits.

For frequencies below 1GHz:

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

For frequencies above 1GHz (Average measurements).

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

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

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

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

Explanation: See attached diagrams in Appendix.

3.5 Spurious Emissions (tx)

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

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

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

Limits:

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

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

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

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

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

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.

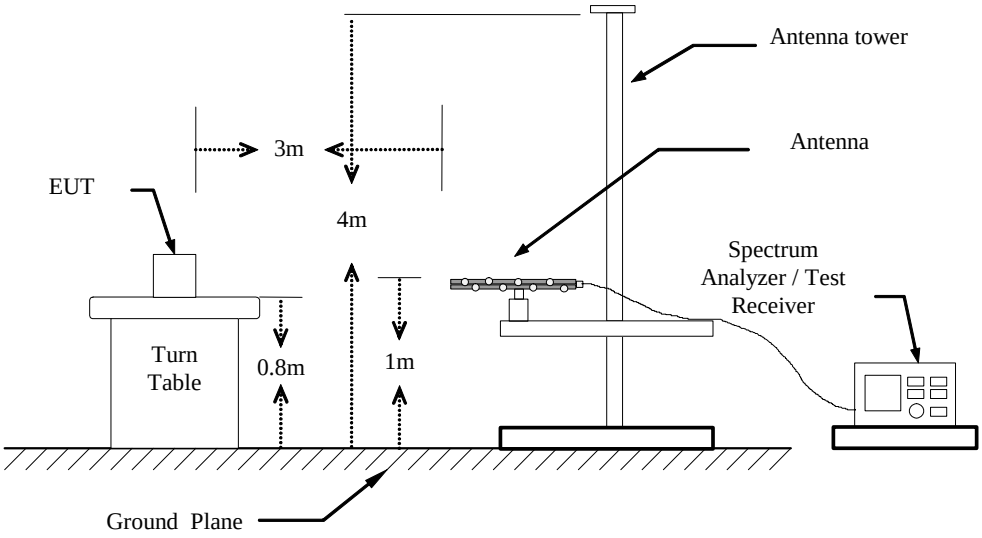
SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

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.

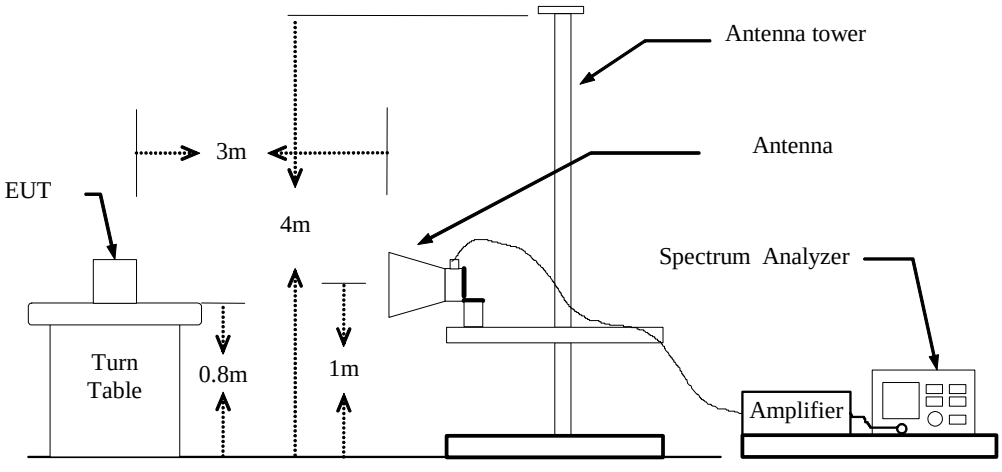
The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

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".

3.5.1 Test setup



Test setup for frequency below 1GHz



Test setup for frequency above 1GHz

3.5.2 Test results

Mode A

Model: MIP200 Date: 2008/7/10
Mode: 11b Ch1 Temperature: 26 °C Engineer: Jeff
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
134.970	20.50	peak	14.45	34.95	43.5.0	-8.55	294	150
332.265	17.46	peak	16.16	33.62	46.00	-12.38	331	150

Mode: 11b Ch1
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1865.732	54.54	---	-9.41	45.13	---	74.00	54.00	-28.87	119	150
3951.904	51.91	---	-4.49	47.42	---	74.00	54.00	-26.58	231	150
7238.477	56.68	43.63	2.07	58.75	45.70	74.00	54.00	-8.30	142	150
9256.513	48.60	---	0.00	48.60	---	74.00	54.00	-25.40	263	150

Mode: 11b Ch1
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
134.970	18.42	peak	14.45	32.87	43.50	-10.63	317	150
325.251	17.38	peak	16.00	33.38	46.00	-12.62	291	150

Mode: 11b Ch1
Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1995.992	53.01	---	-8.53	44.48	---	74.00	54.00	-29.52	299	150
3919.840	51.58	---	-4.54	47.04	---	74.00	54.00	-26.96	341	150
7238.477	53.84	44.26	2.07	55.91	46.33	74.00	54.00	-7.67	136	150
12045.591	34.01	---	11.60	45.61	---	74.00	54.00	-28.39	87	150

Mode: 11b Ch6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
137.134	18.83	peak	14.61	33.44	43.50	-10.06	164	150
333.667	16.09	peak	16.20	32.29	46.00	-13.71	104	150

Mode: 11b Ch6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave..	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1867.736	54.41	---	-9.40	45.01	---	74.00	54.00	-28.99	166	150
3054.108	53.50	---	-6.01	47.49	---	74.00	54.00	-26.51	171	150
7310.621	55.08	43.08	2.25	57.33	45.33	74.00	54.00	-8.67	188	150
8104.709	50.32	---	0.00	50.32	---	74.00	54.00	-23.68	330	150

Mode: 11b Ch6
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
136.052	18.43	peak	14.53	32.96	43.50	-10.54	138	150

Mode: 11b Ch6
Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Ave.	Limit @3m (dBuV/m) Peak	Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1583.166	52.98	---	-11.33	41.65	---	74.00	54.00	-32.35	137	150
2501.002	54.90	---	-7.30	47.60	---	74.00	54.00	-26.40	152	150
4873.748	53.03	44.89	-2.18	50.85	42.71	74.00	54.00	-11.29	219	150
7318.637	53.37	43.59	2.26	55.63	45.85	74.00	54.00	-8.15	197	150

Mode: 11b Ch11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
136.593	18.70	peak	14.57	33.27	43.50	-10.23	306	150
409.419	16.23	peak	17.98	34.21	46.00	-11.79	78	150

Mode: 11b Ch11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1989.980	54.47	---	-8.57	45.90	---	74.00	54.00	-28.10	288	150
2460.922	56.60	---	-7.39	49.21	---	74.00	54.00	-24.79	297	150
7390.782	54.35	44.18	2.44	56.79	46.62	74.00	54.00	-7.38	251	150
8533.066	50.09	---	0.00	50.09	---	74.00	54.00	-23.91	233	150

Mode: 11b Ch11
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
135.511	18.42	peak	14.49	32.91	43.50	-10.59	316	150
325.251	16.47	peak	16.00	32.47	46.00	-13.53	96	150

Mode: 11b Ch11
Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1989.980	53.83	---	-8.57	45.26	---	74.00	54.00	-28.74	226	150
2460.922	57.42	---	-7.39	50.03	---	74.00	54.00	-23.97	177	150
4921.844	54.04	44.71	-1.96	52.08	42.75	74.00	54.00	-11.25	141	150
7390.782	52.21	42.16	2.44	54.65	44.60	74.00	54.00	-9.40	262	150

Registration number: W6M20804-9041-C-1
FCC ID: Q3MMIP200

Mode B

Model: MIP200 Date: 2008/7/10
Mode: 11g Ch1 Temperature: 26 °C Engineer: Jeff
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
136.593	19.58	peak	14.57	34.15	43.50	-9.35	133	150
335.070	17.97	peak	16.23	34.20	46.00	-11.80	194	150

Mode: 11g Ch1
Polarization: Horizontal

Frequency	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1895.792	55.34	---	-9.21	46.13	---	74.00	54.00	-27.87	220	150
3146.293	53.31	---	-5.87	47.44	---	74.00	54.00	-26.56	132	150
7246.493	59.13	43.62	2.09	61.22	45.71	74.00	54.00	-8.29	277	150
8247.495	50.08	---	0.00	50.08	---	74.00	54.00	-23.92	251	150

Mode: 11g Ch1
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
134.970	18.56	peak	14.45	33.01	43.50	-10.49	160	150
328.056	16.29	peak	16.06	32.35	46.00	-13.65	221	150

Mode: 11g Ch1
Polarization: Vertical

Frequency	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1993.988	54.37	---	-8.54	45.83	---	74.00	54.00	-28.17	322	150
2376.753	57.38	---	-7.60	49.78	---	74.00	54.00	-24.22	266	150
7230.461	55.42	41.53	2.05	57.47	43.58	74.00	54.00	-10.42	158	150
11931.363	40.37	---	11.53	51.90	---	74.00	54.00	-22.10	273	150

Mode: 11g Ch6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
136.052	19.04	peak	14.53	33.57	43.50	-9.93	319	150
329.459	17.25	peak	16.10	33.35	46.00	-12.65	133	150

Mode: 11g Ch6
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
1987.976	53.90	---	-8.58	45.32	---	74.00	54.00	-28.68	217	150
2408.818	54.42	---	-7.52	46.90	---	74.00	54.00	-27.10	307	150
7318.637	57.64	42.68	2.26	59.90	44.94	74.00	54.00	-9.06	73	150
8180.862	49.91	---	0.00	49.91	---	74.00	54.00	-24.09	114	150

Mode: 11g Ch6
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
137.134	18.37	peak	14.61	32.98	43.50	-10.52	285	150
323.848	17.34	peak	15.96	33.30	46.00	-12.70	104	150

Mode: 11g Ch6
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
1997.996	53.82	---	-8.51	45.31	---	74.00	54.00	-28.69	58	150
3839.679	52.54	---	-4.69	47.85	---	74.00	54.00	-26.15	113	150
7310.621	55.17	45.18	2.25	57.42	47.43	74.00	54.00	-6.57	105	150
7527.054	51.04	40.33	2.70	53.74	43.03	74.00	54.00	-10.97	247	150

Mode: 11g Ch11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
135.511	18.95	peak	14.49	33.44	43.50	-10.06	--	150
401.002	17.71	peak	17.81	35.52	46.00	-10.48	167	150

Mode: 11g Ch11
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1997.996	54.20	---	-8.51	45.69	---	74.00	54.00	-28.31	309	150
2456.914	55.92	---	-7.40	48.52	---	74.00	54.00	-25.48	176	150
7382.766	56.09	43.48	2.42	58.51	45.90	74.00	54.00	-8.10	280	150
8361.723	49.26	---	0.00	49.26	---	74.00	54.00	-24.74	263	150

Mode: 11g Ch11
Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
135.511	19.06	peak	14.49	33.55	43.50	-9.95	216	150
326.653	17.72	peak	16.03	33.75	46.00	-12.25	219	150

Mode: 11g Ch11
Polarization: Vertical

Frequency (MHz)	Reading (dBuV) Peak	Reading (dBuV) Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave.	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1995.992	53.75	---	-8.53	45.22	---	74.00	54.00	-28.78	270	150
2456.914	55.78	---	-7.40	48.38	---	74.00	54.00	-25.62	229	150
7390.782	54.29	45.11	2.44	56.73	47.55	74.00	54.00	-6.45	293	150
11503.006	38.99	---	11.10	50.09	---	74.00	54.00	-23.91	261	150

Note

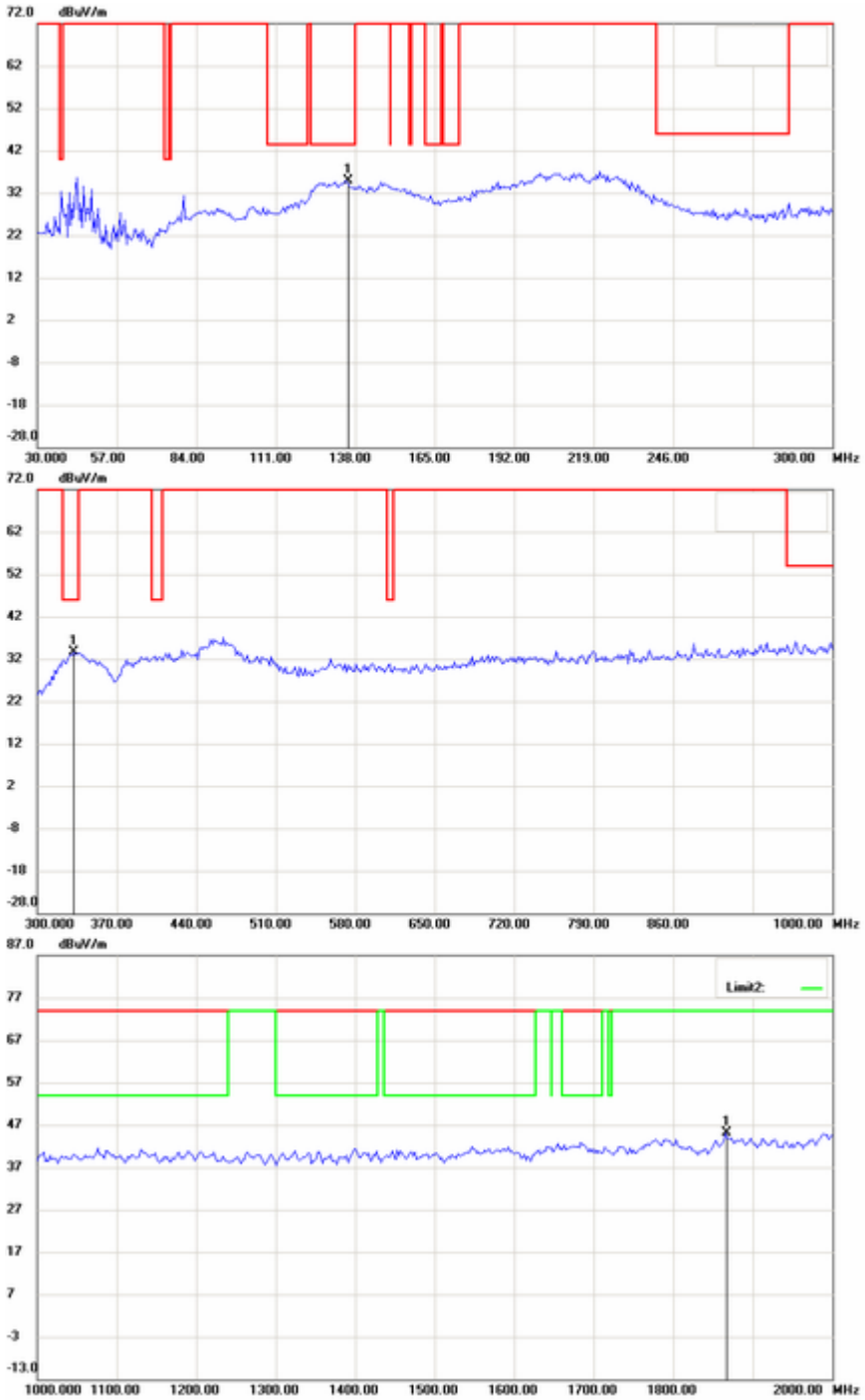
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below 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-RE 044

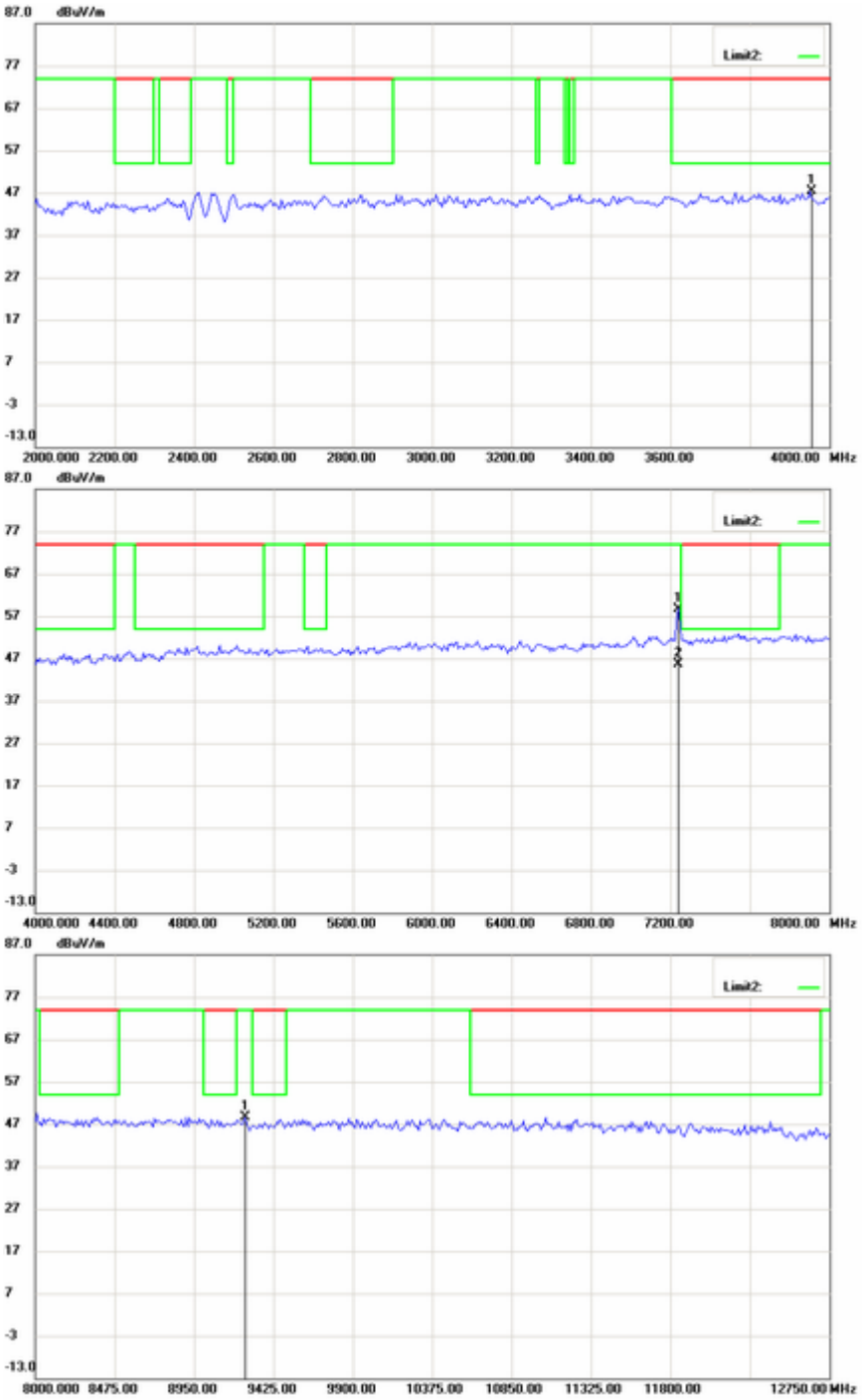
3.5.3 Measurement diagrams

Mode A Channel 1
Antenna Polarization H



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

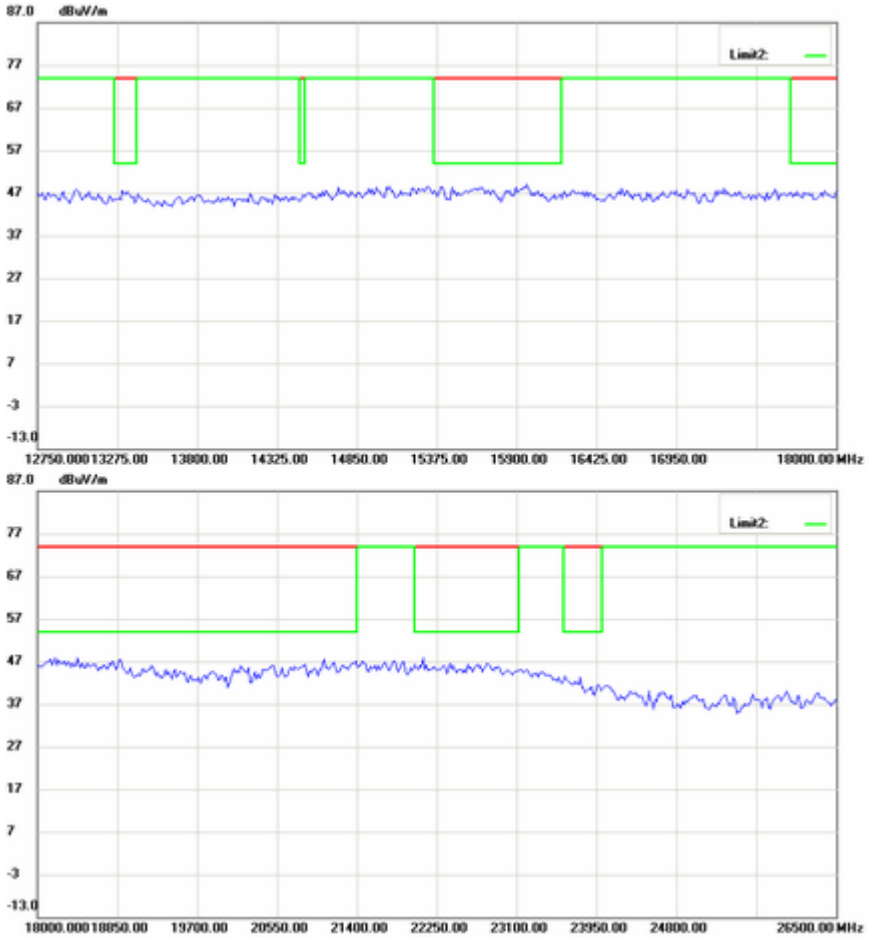
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the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



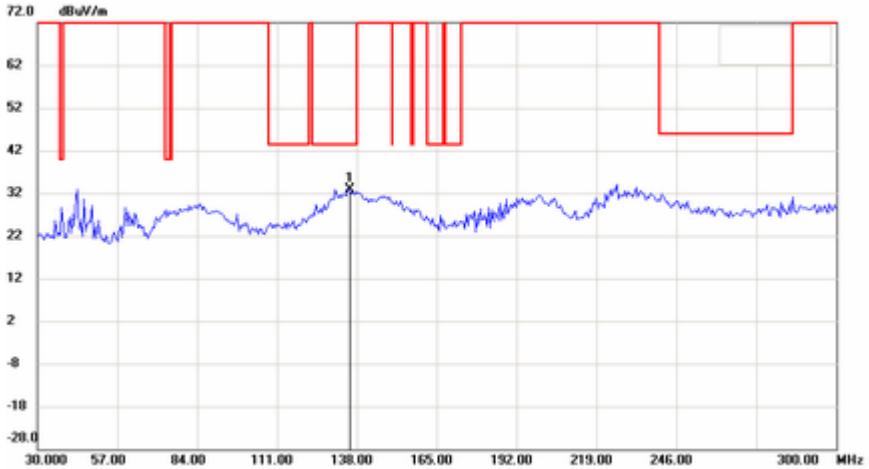
Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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: W6M20804-9041-C-1
FCC ID: Q3MMIP200



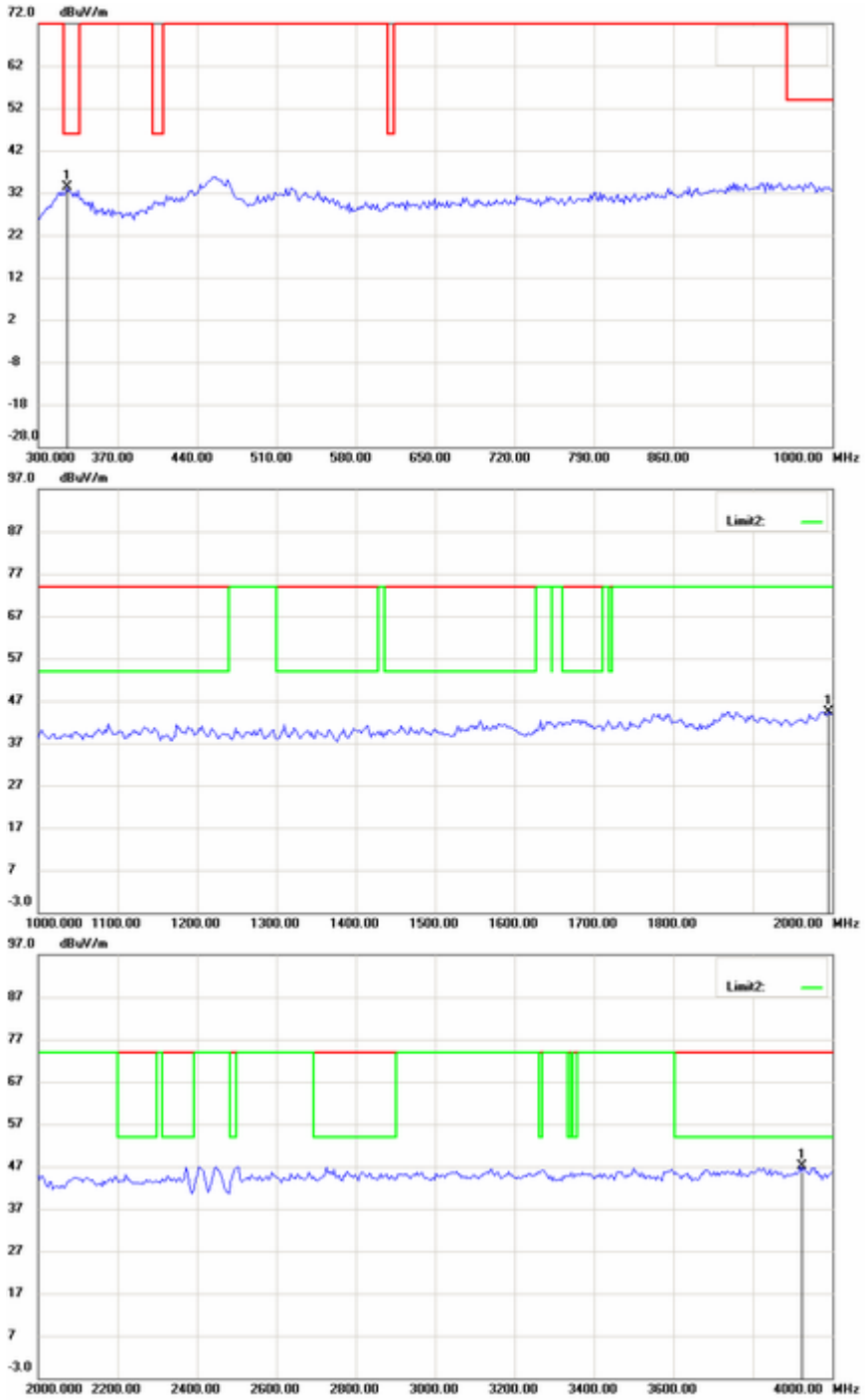
Antenna Polarization V



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

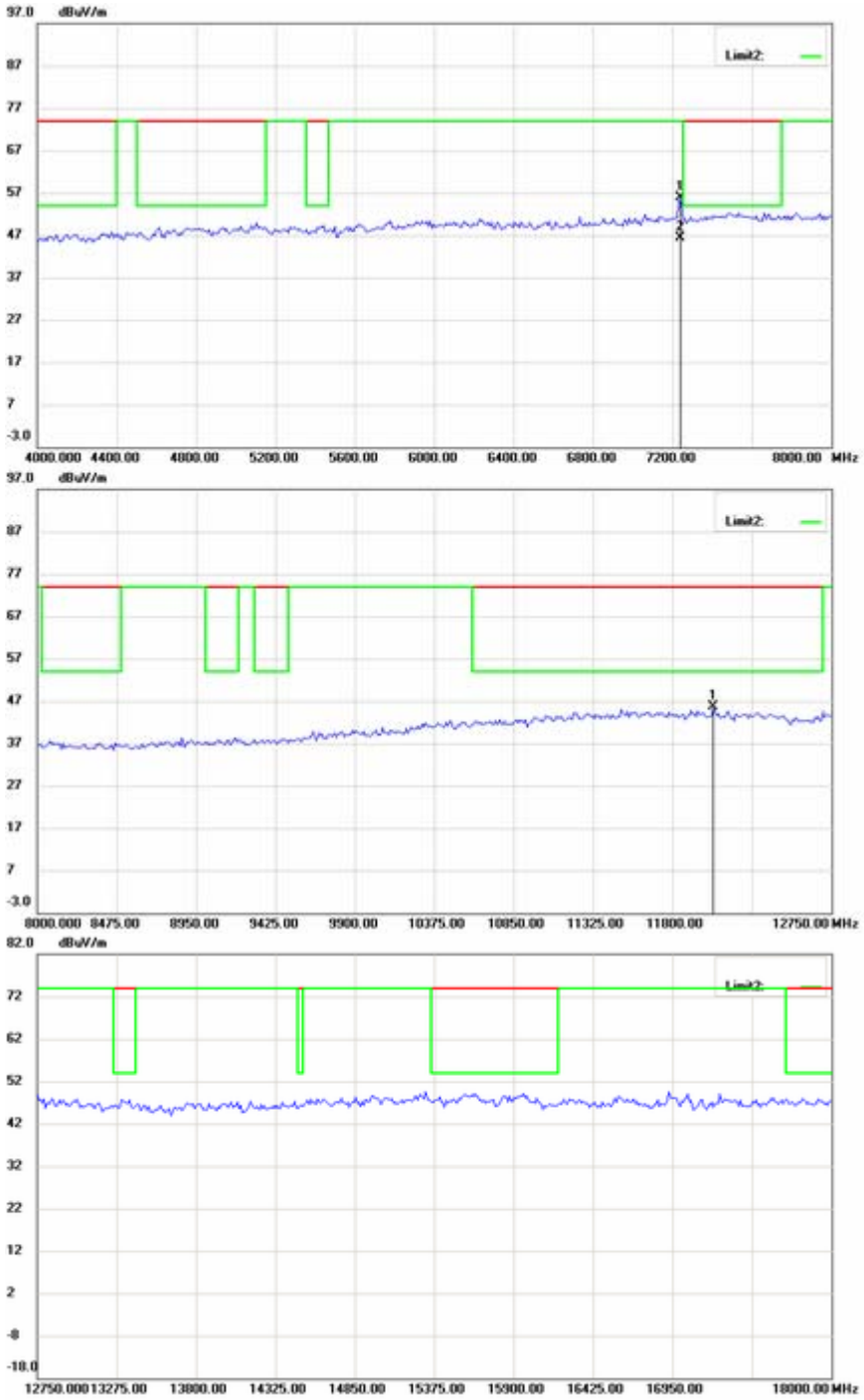
1. **The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.**
2. **The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the 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: W6M20804-9041-C-1
FCC ID: Q3MMIP200



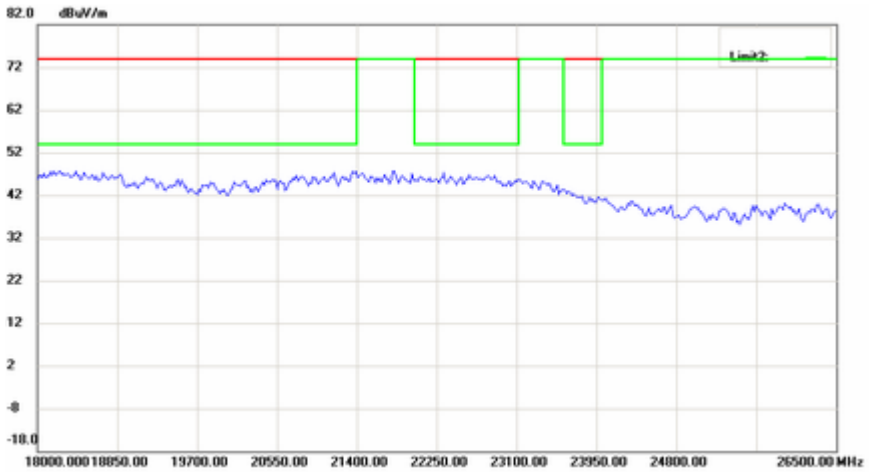
Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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.**

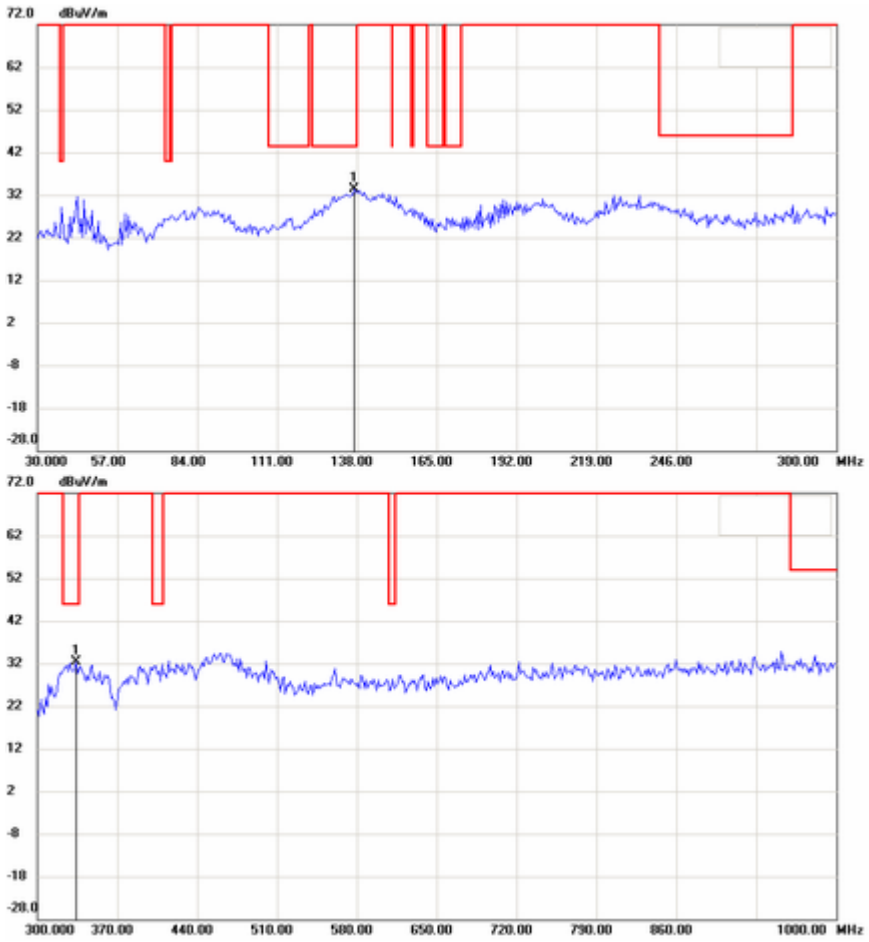


Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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.**

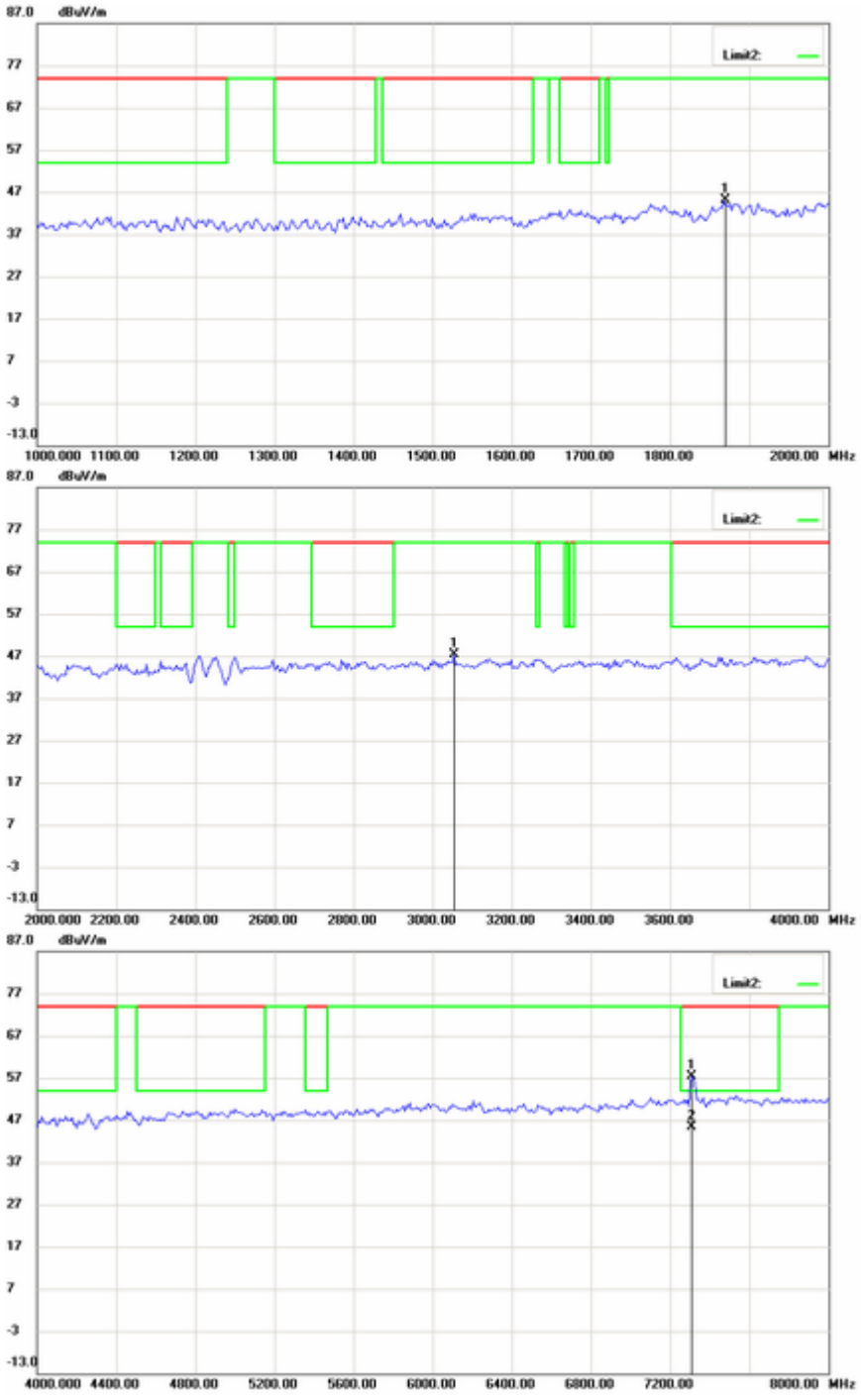


Channel 6
Antenna Polarization H



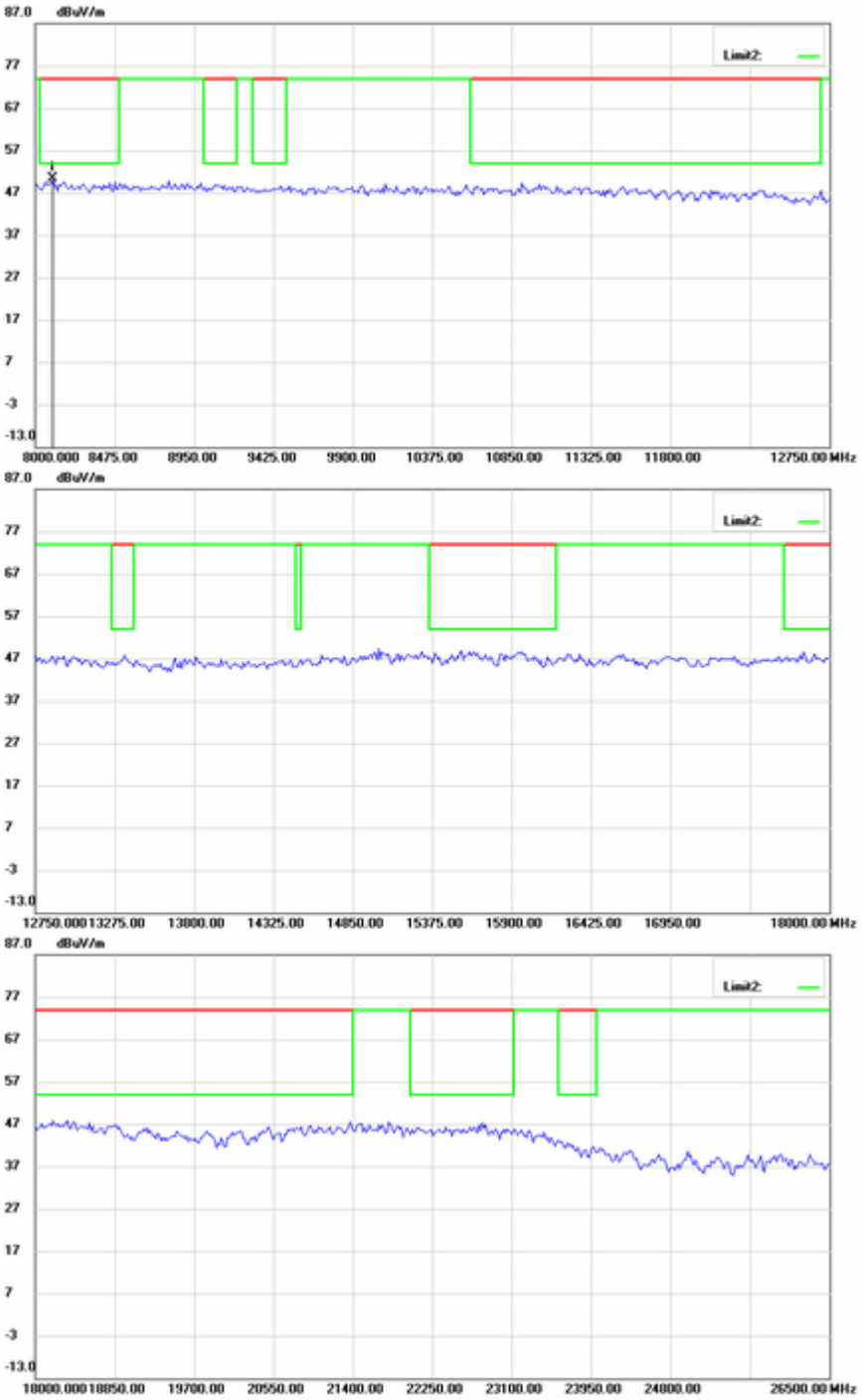
Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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.**



Up Line: PK 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.**



Up Line: PK 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.**

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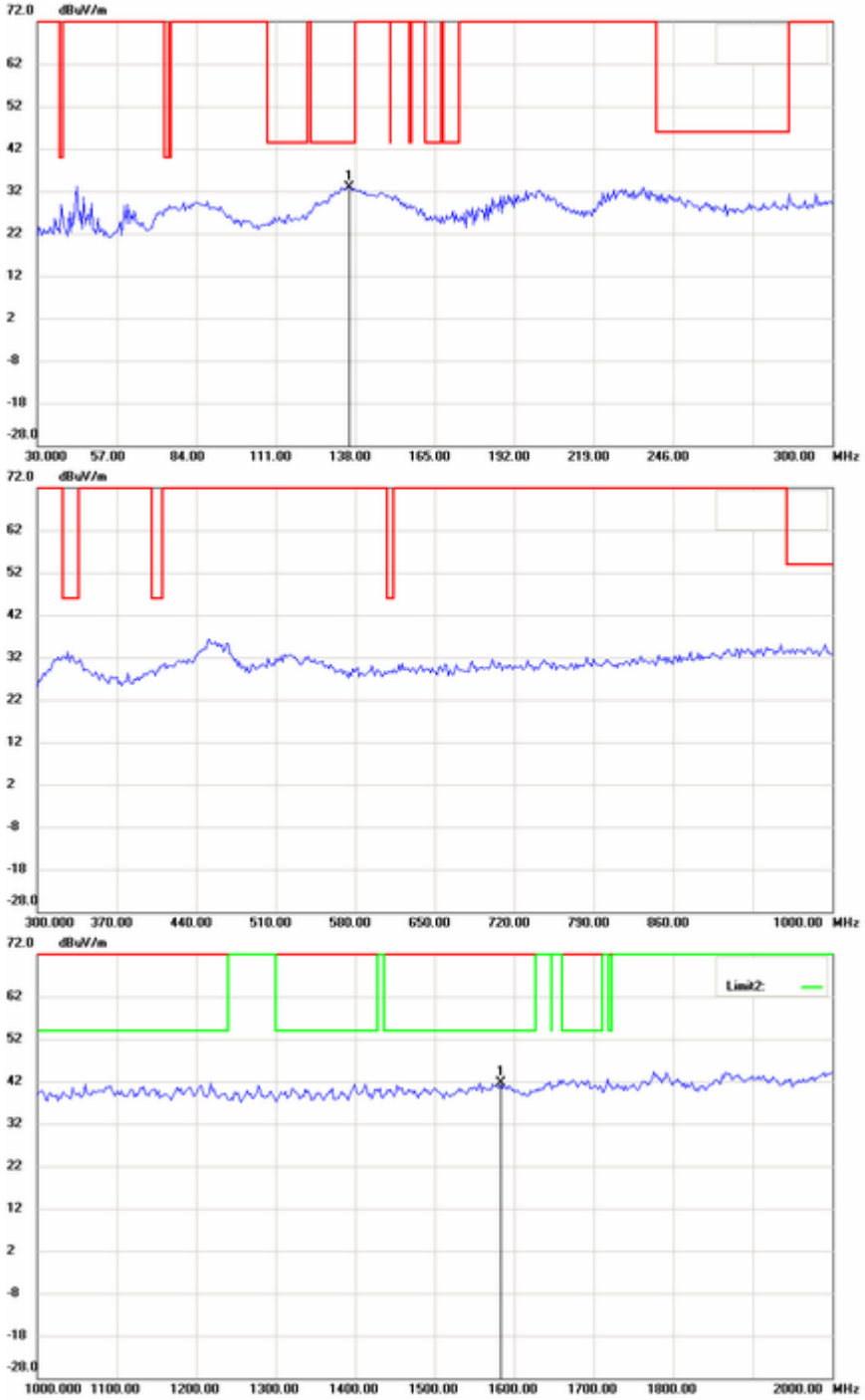
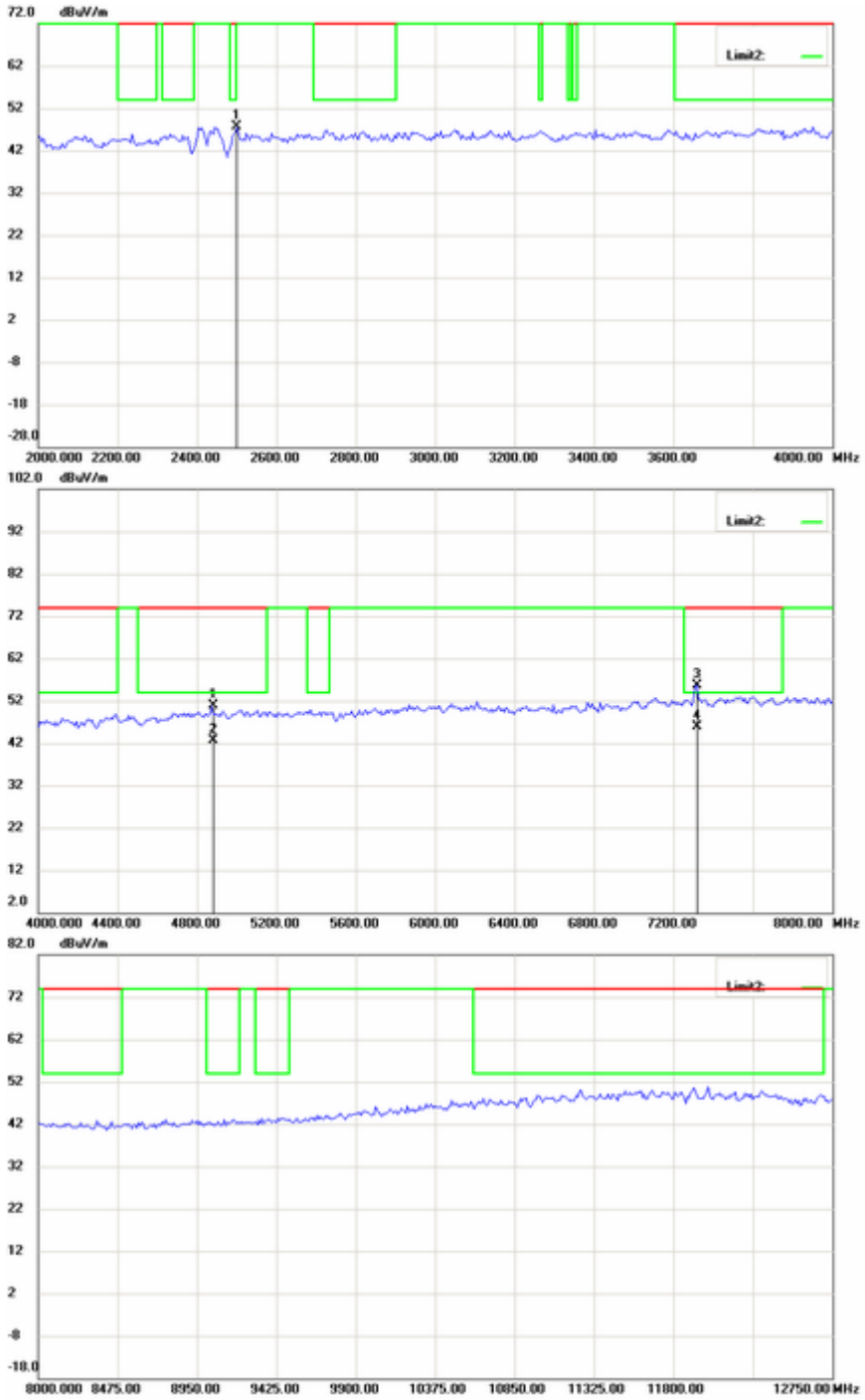
FCC ID: Q3MMIP200

Antenna Polarization V



Up Line: PK 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.**



Up Line: PK 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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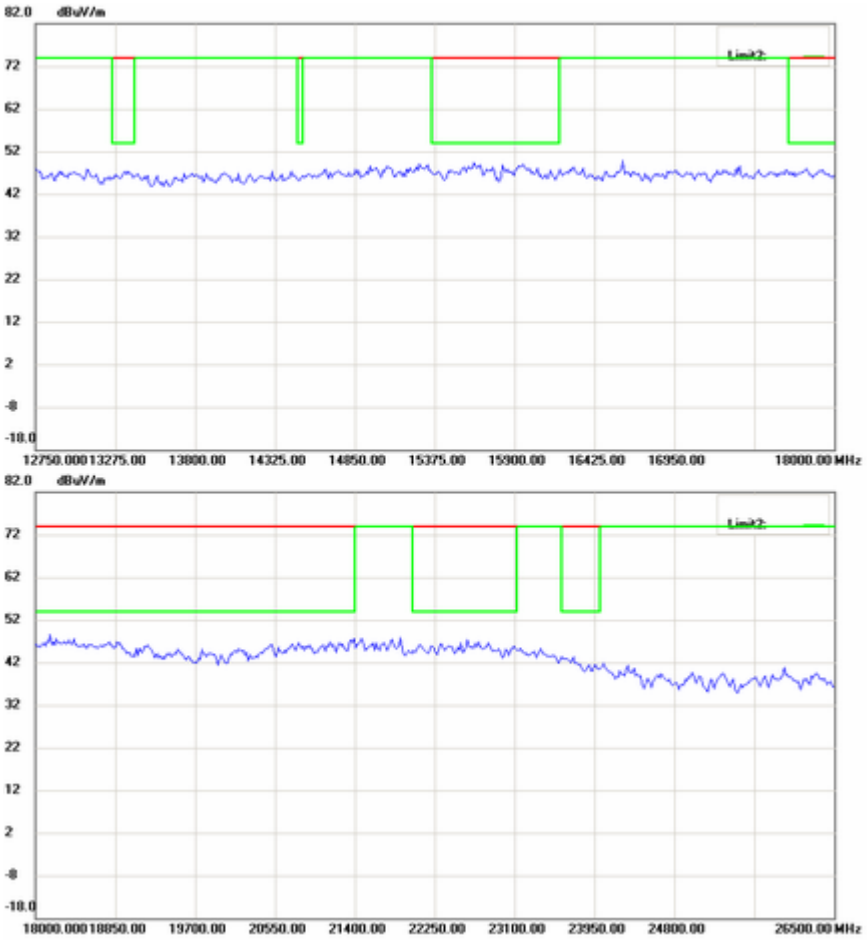
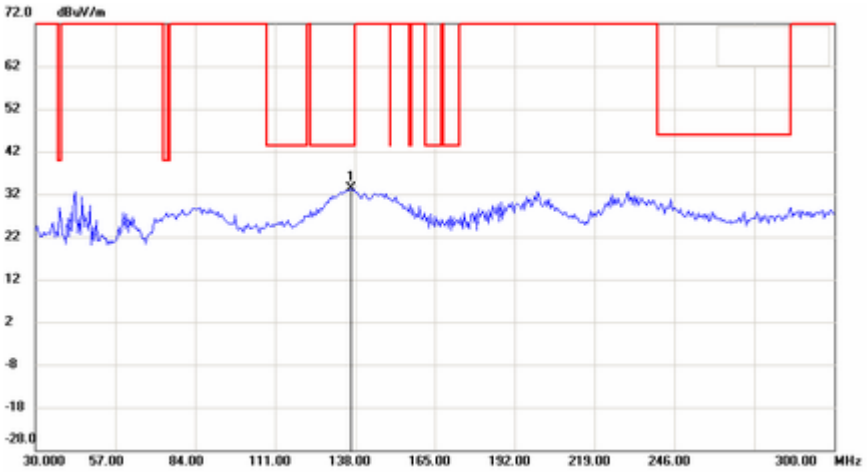


Channel 11
Antenna Polarization H



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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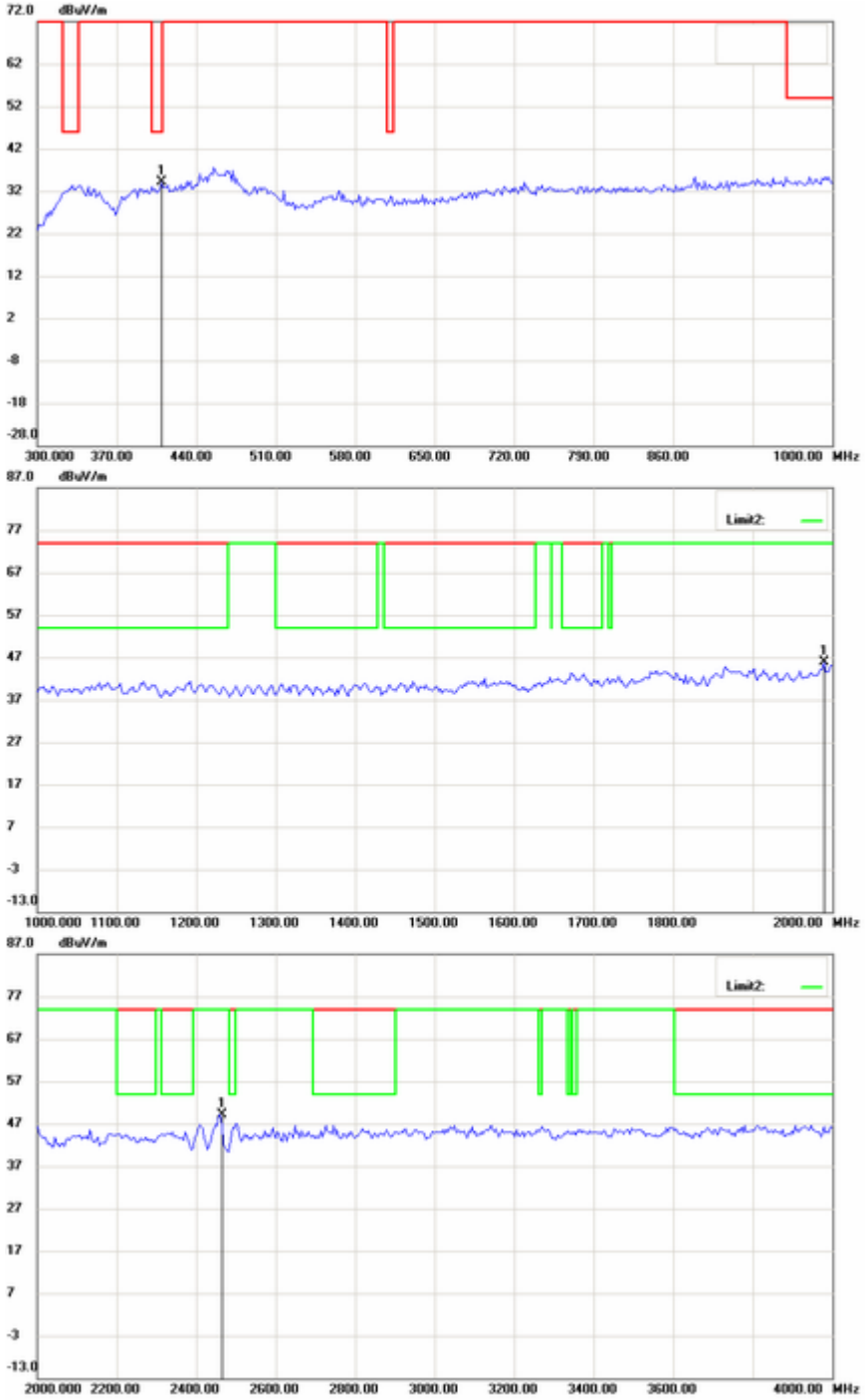

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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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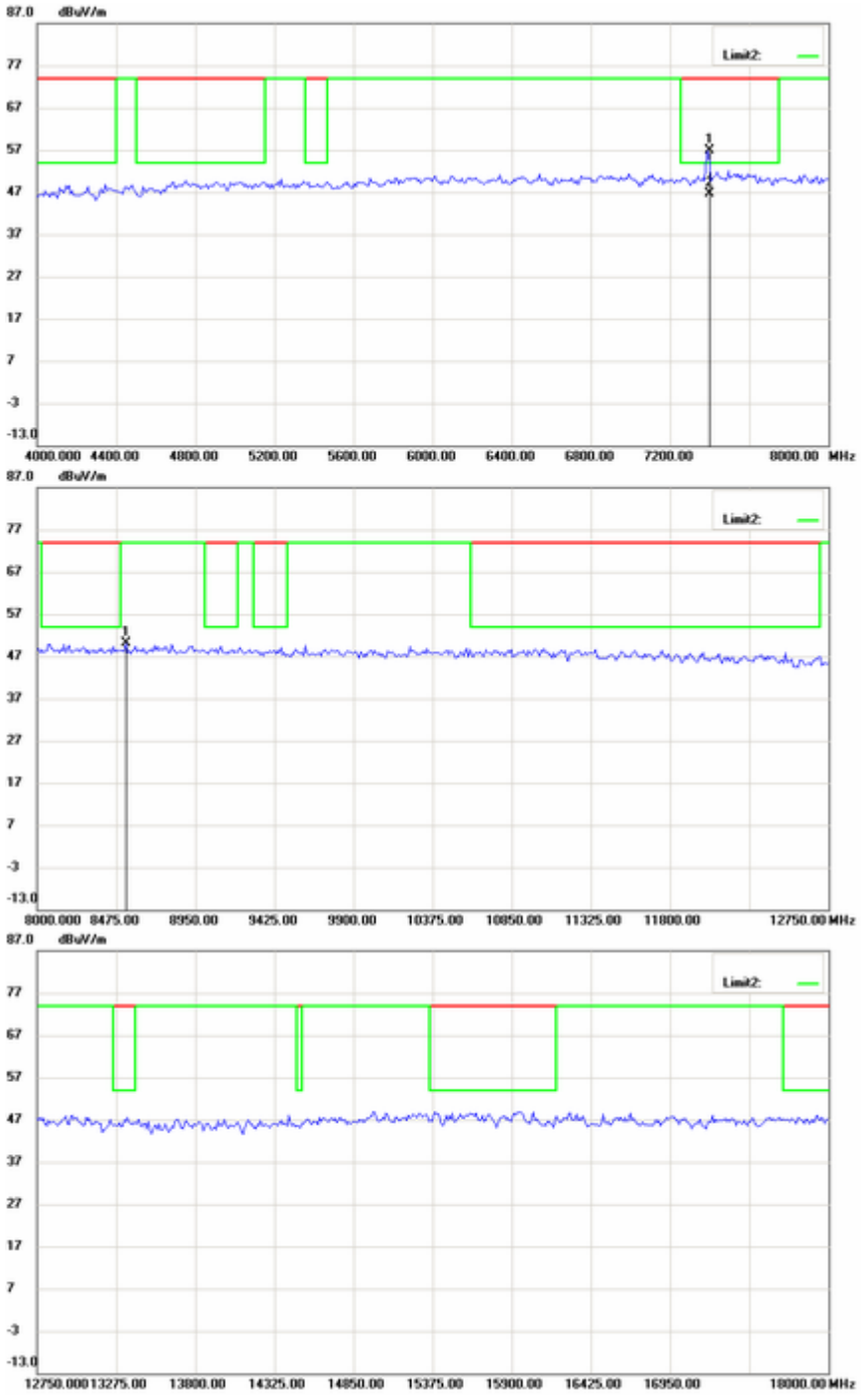

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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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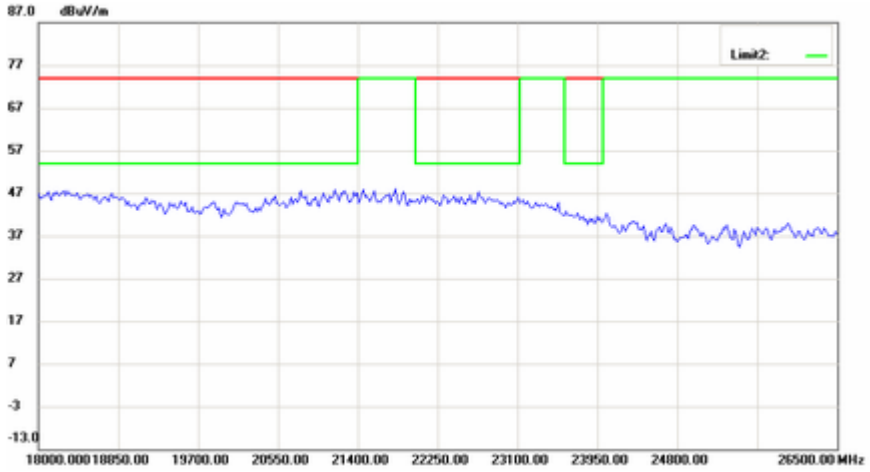
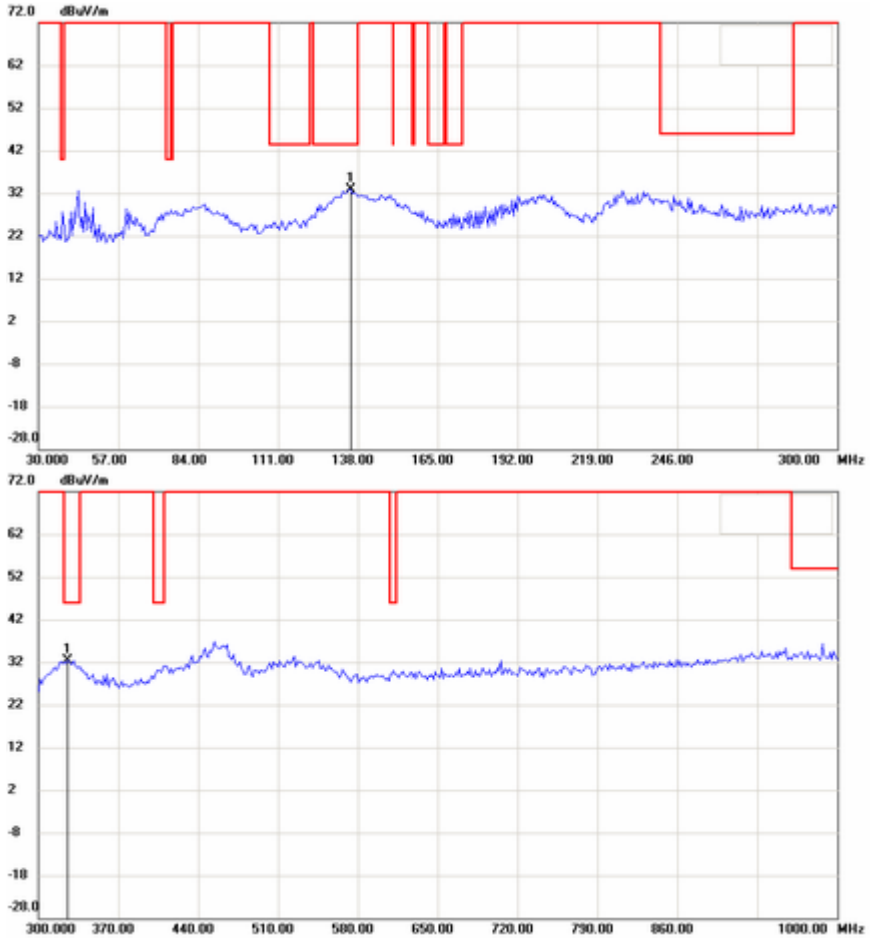
Registration number: W6M20804-9041-C-1
FCC ID: Q3MMIP200

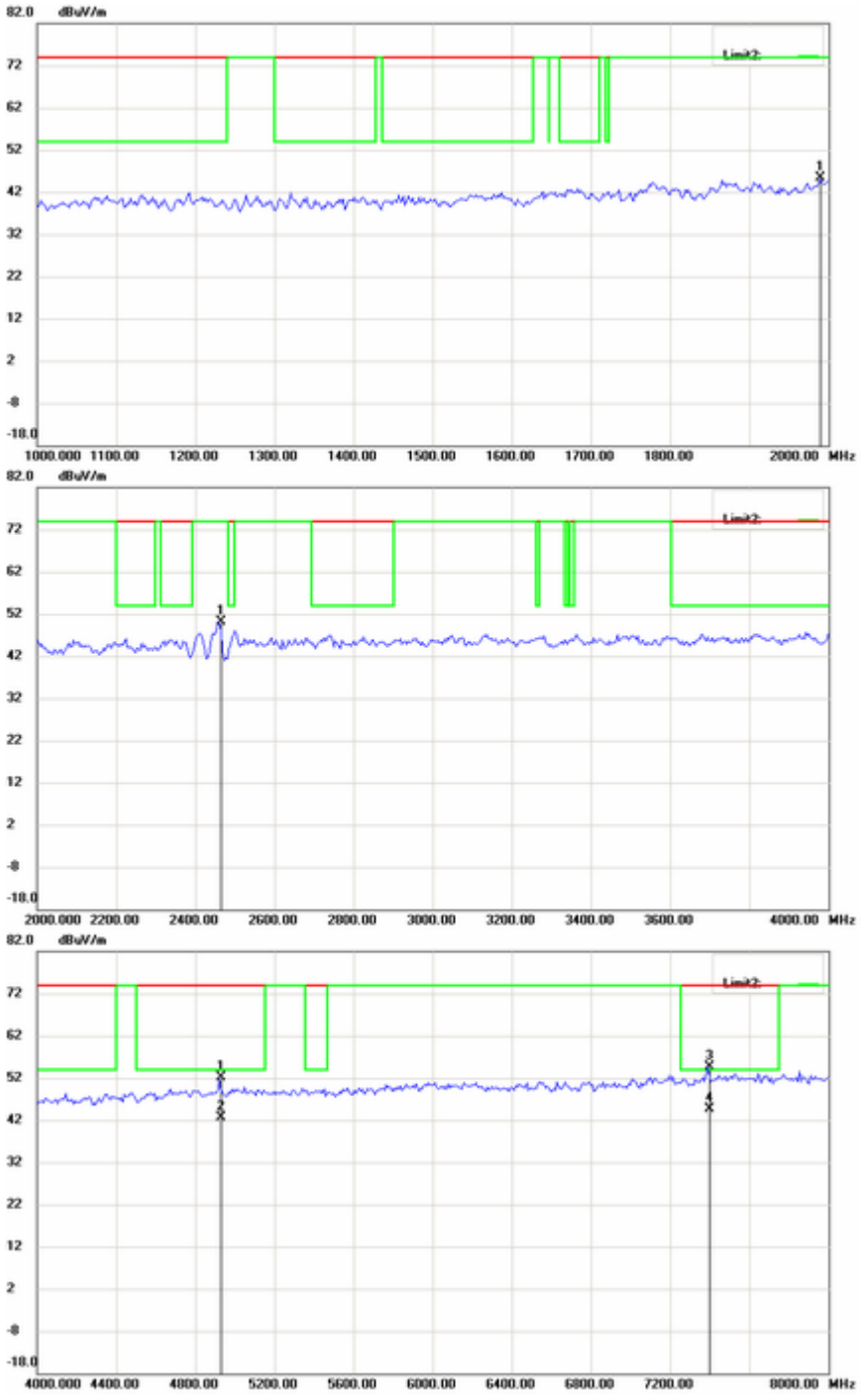


Antenna Polarization V



Up Line: PK 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.**



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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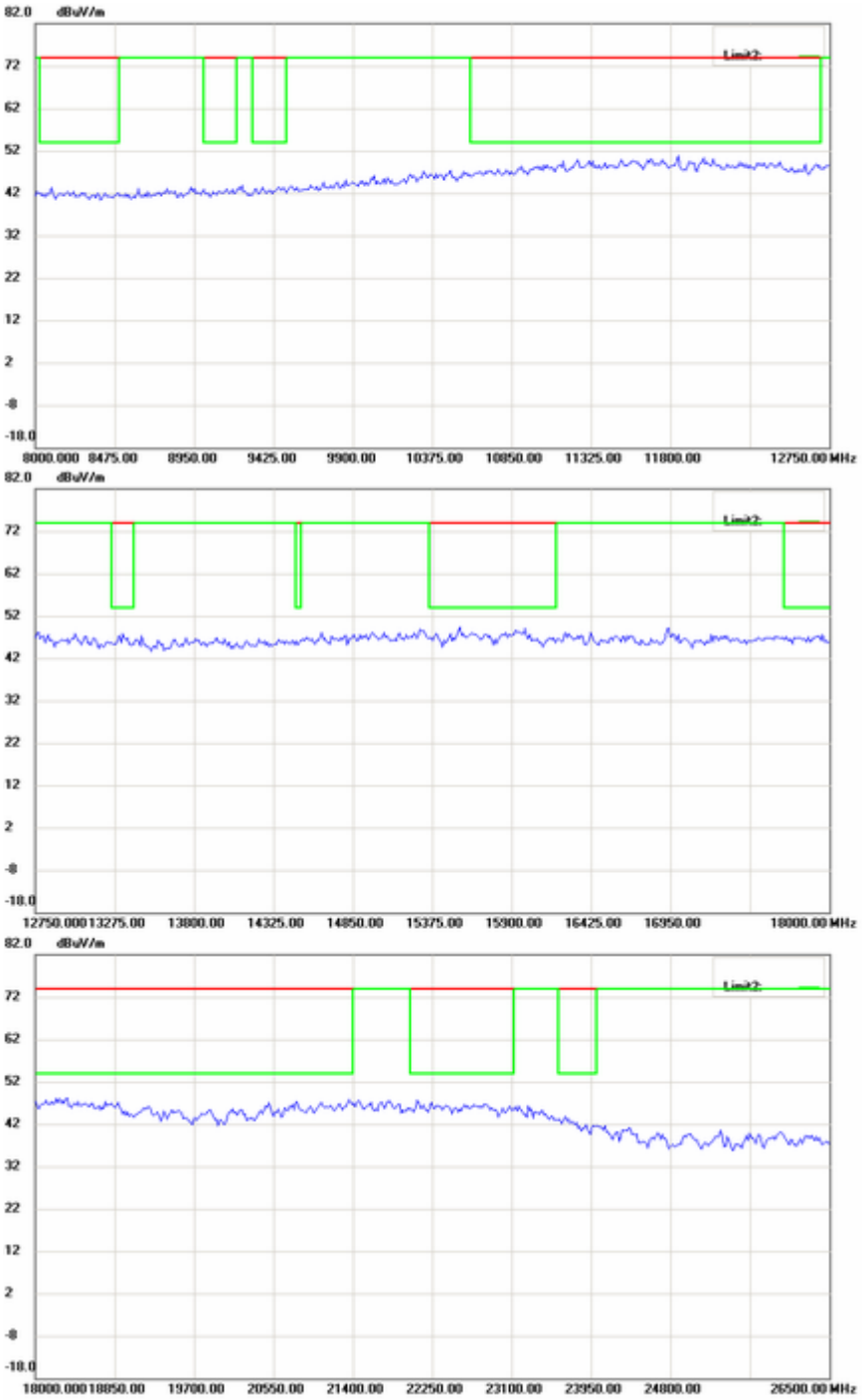

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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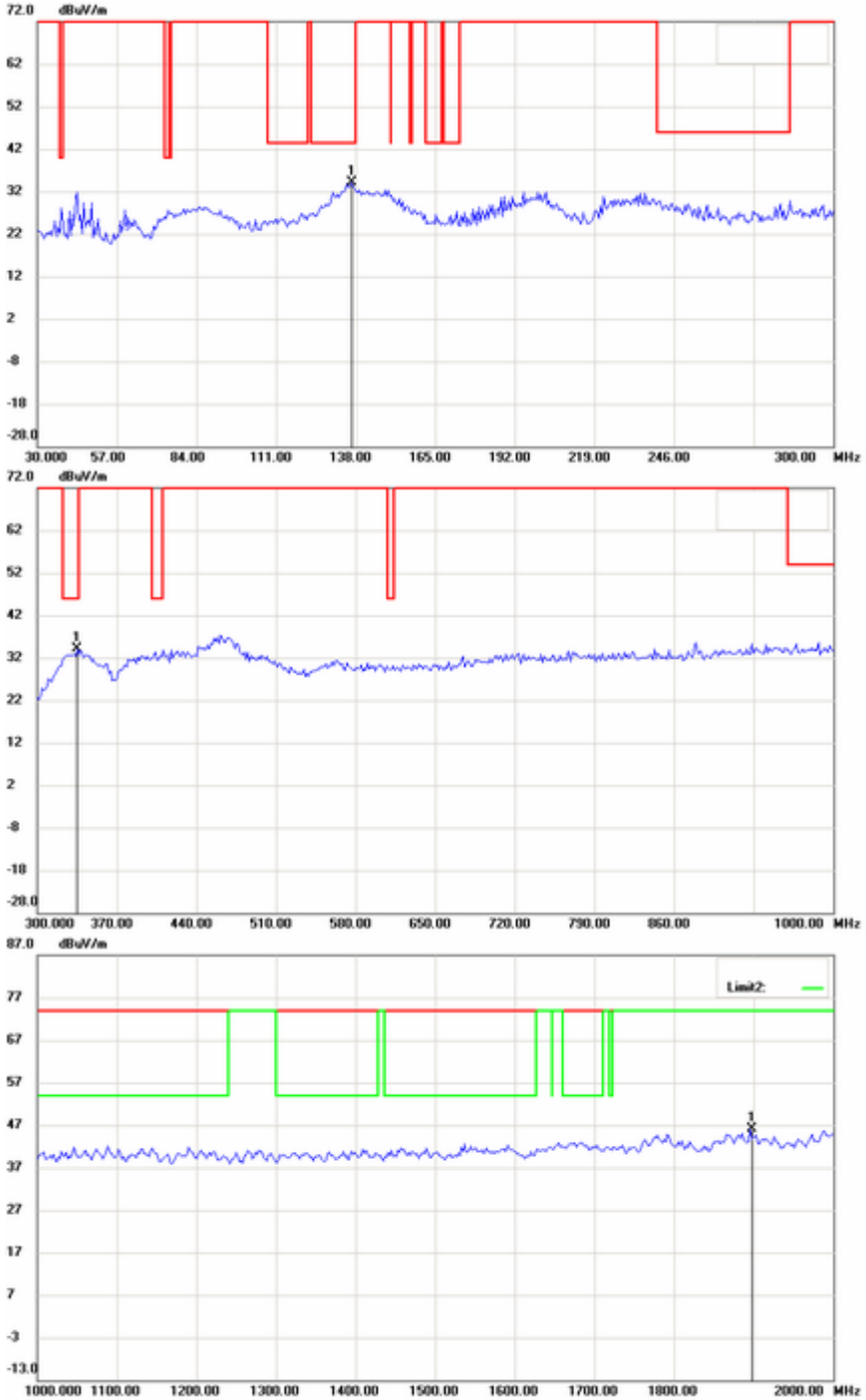
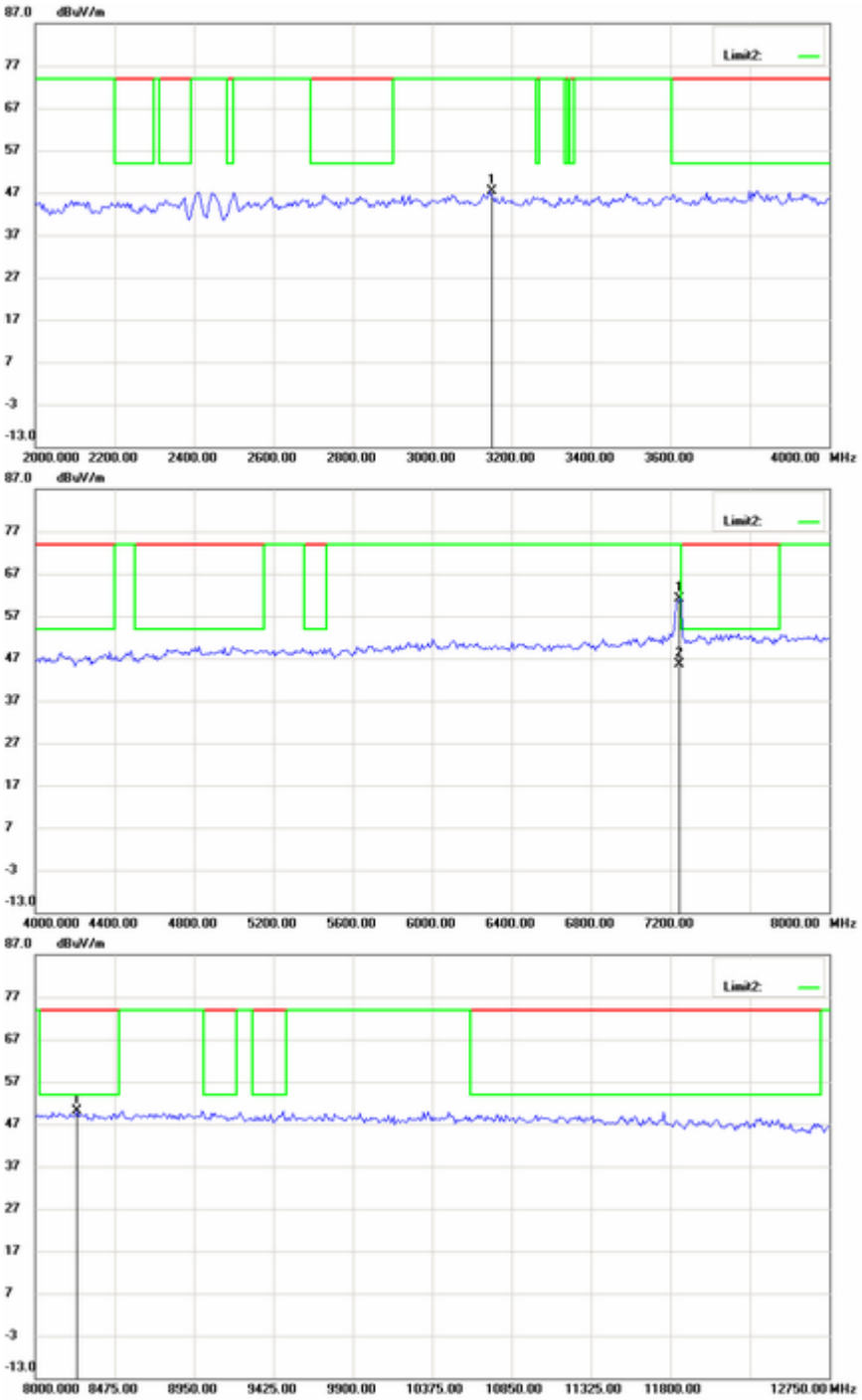
3. **For corrected test results are listed in the relevant table of radiated test data of this test report.**

Mode B_Channel 1
Antenna Polarization H



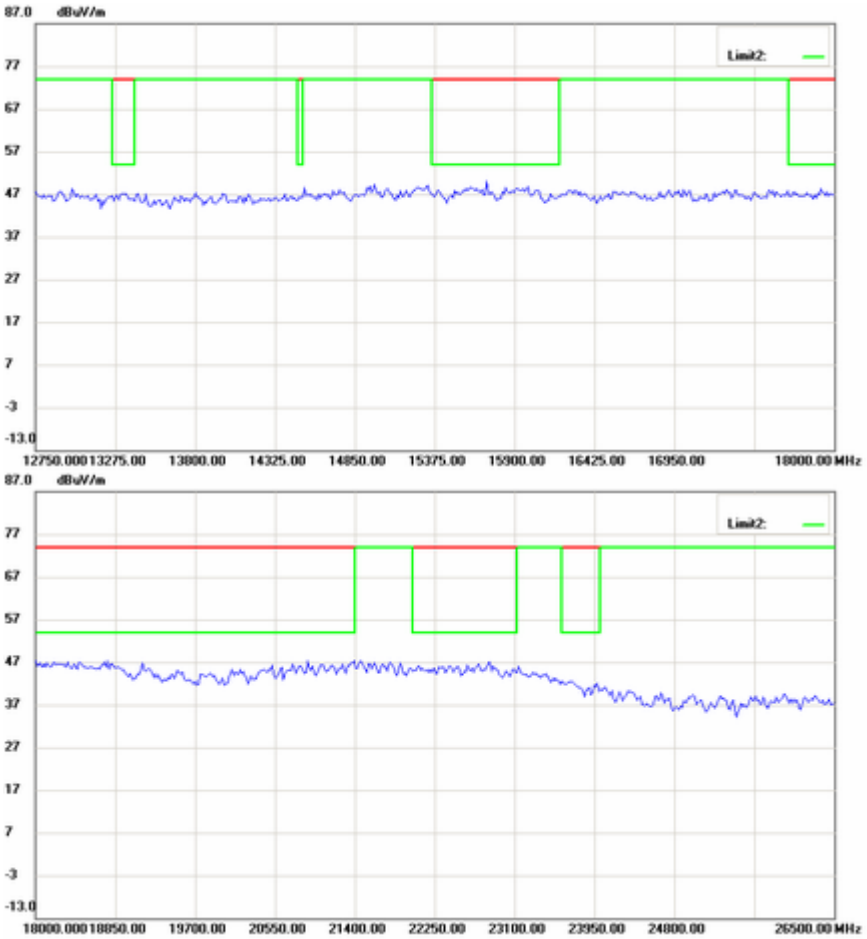
Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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.**

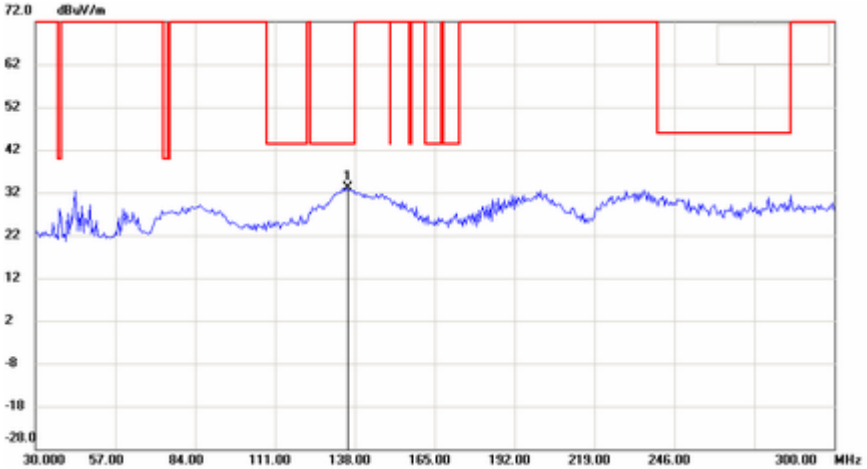


Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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.**



Antenna Polarization V



Up Line: PK 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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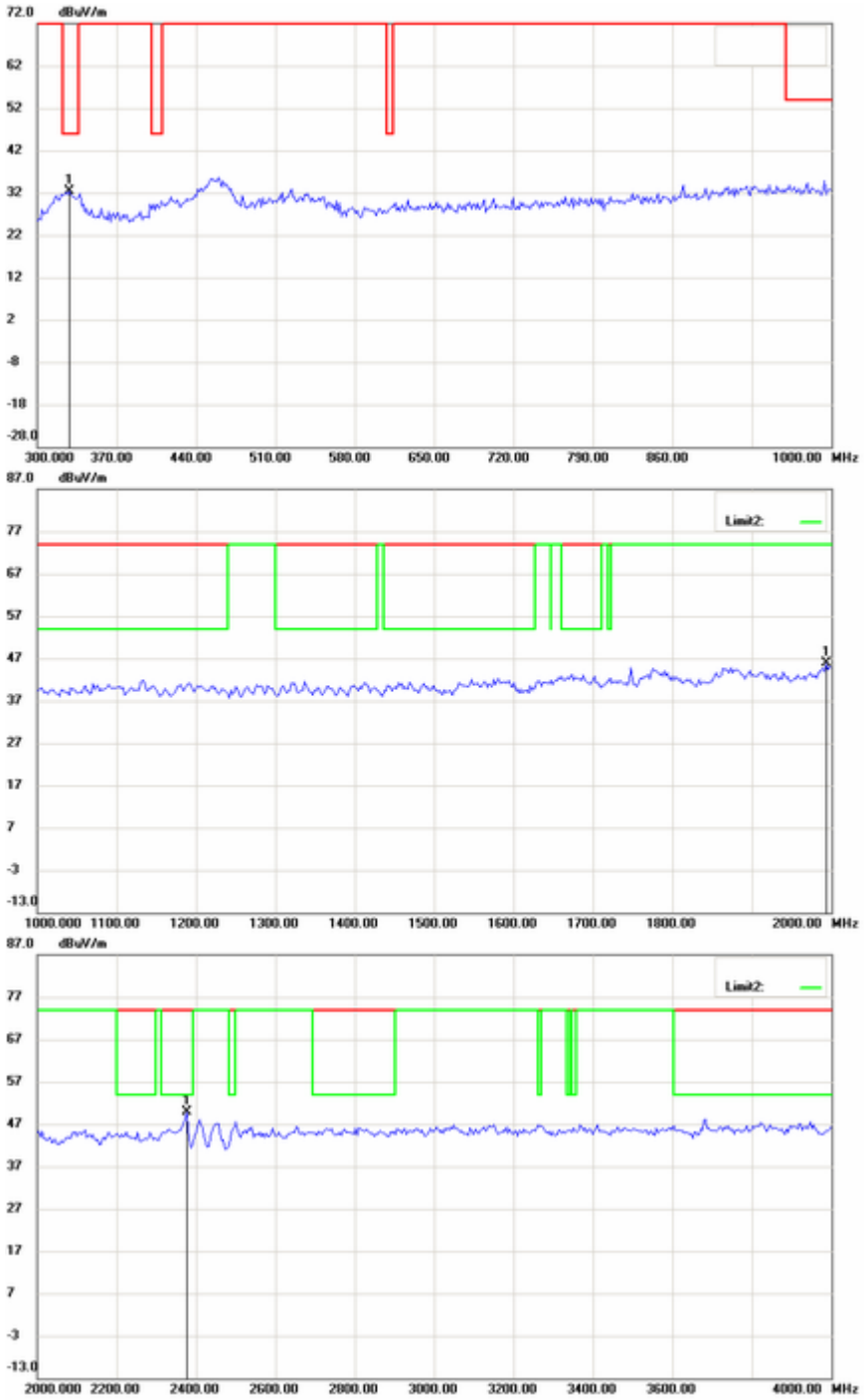
Registration number: W6M20804-9041-C-1
FCC ID: Q3MMIP200



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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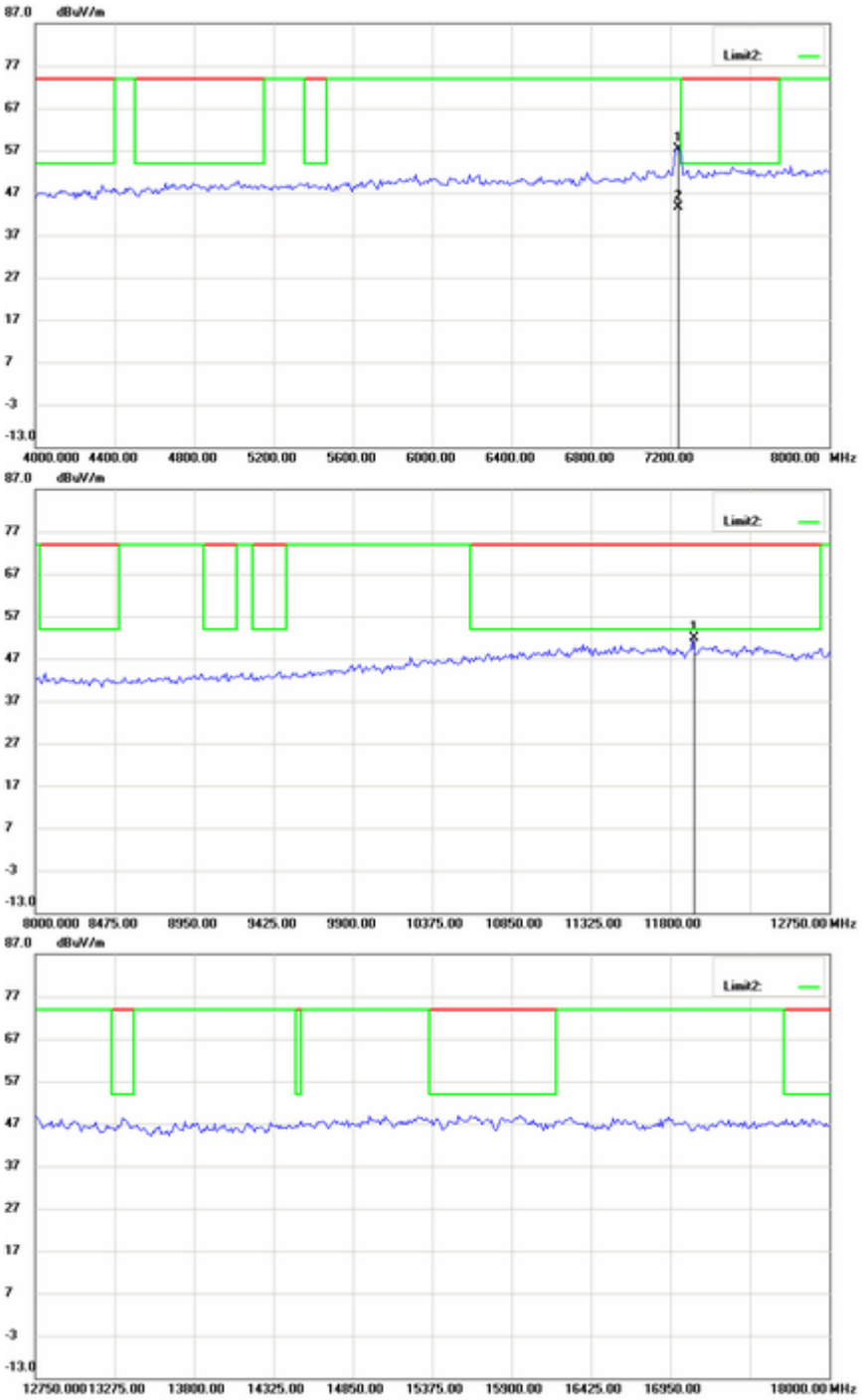

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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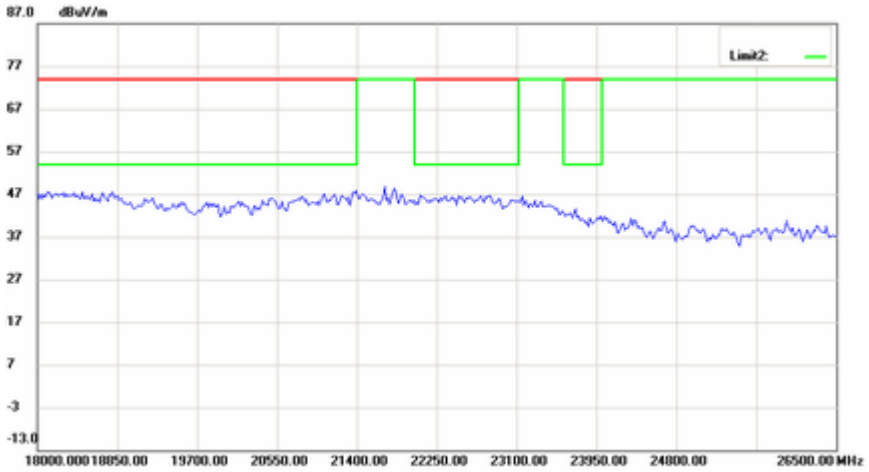
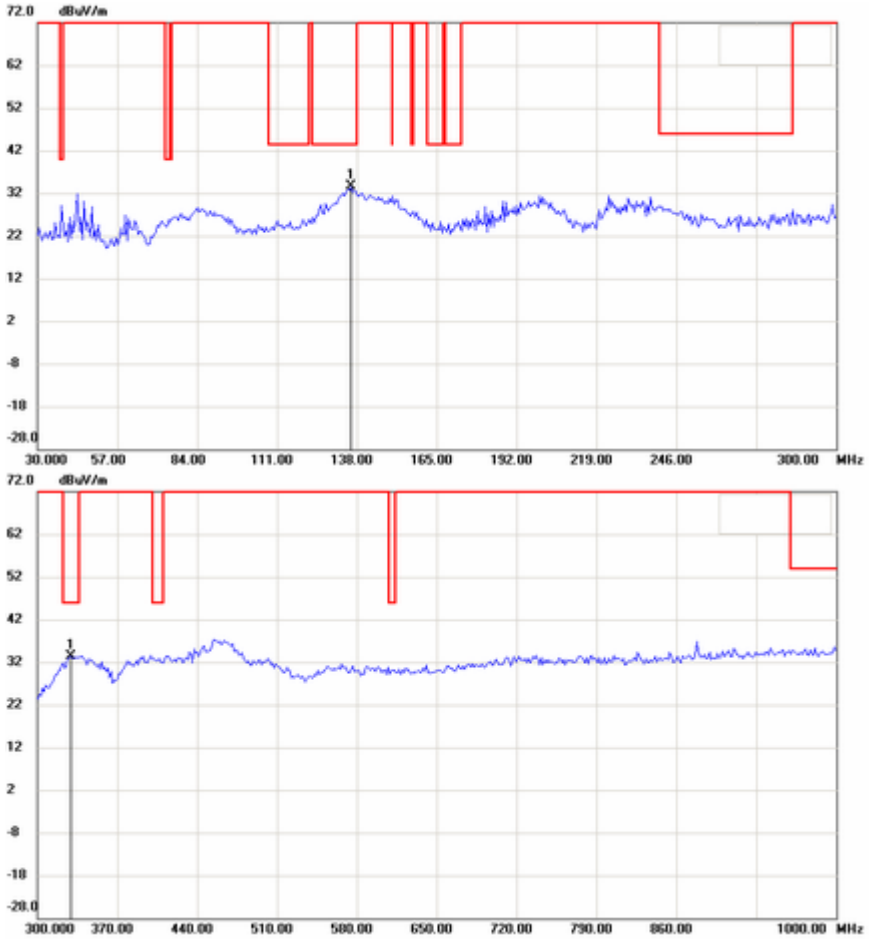
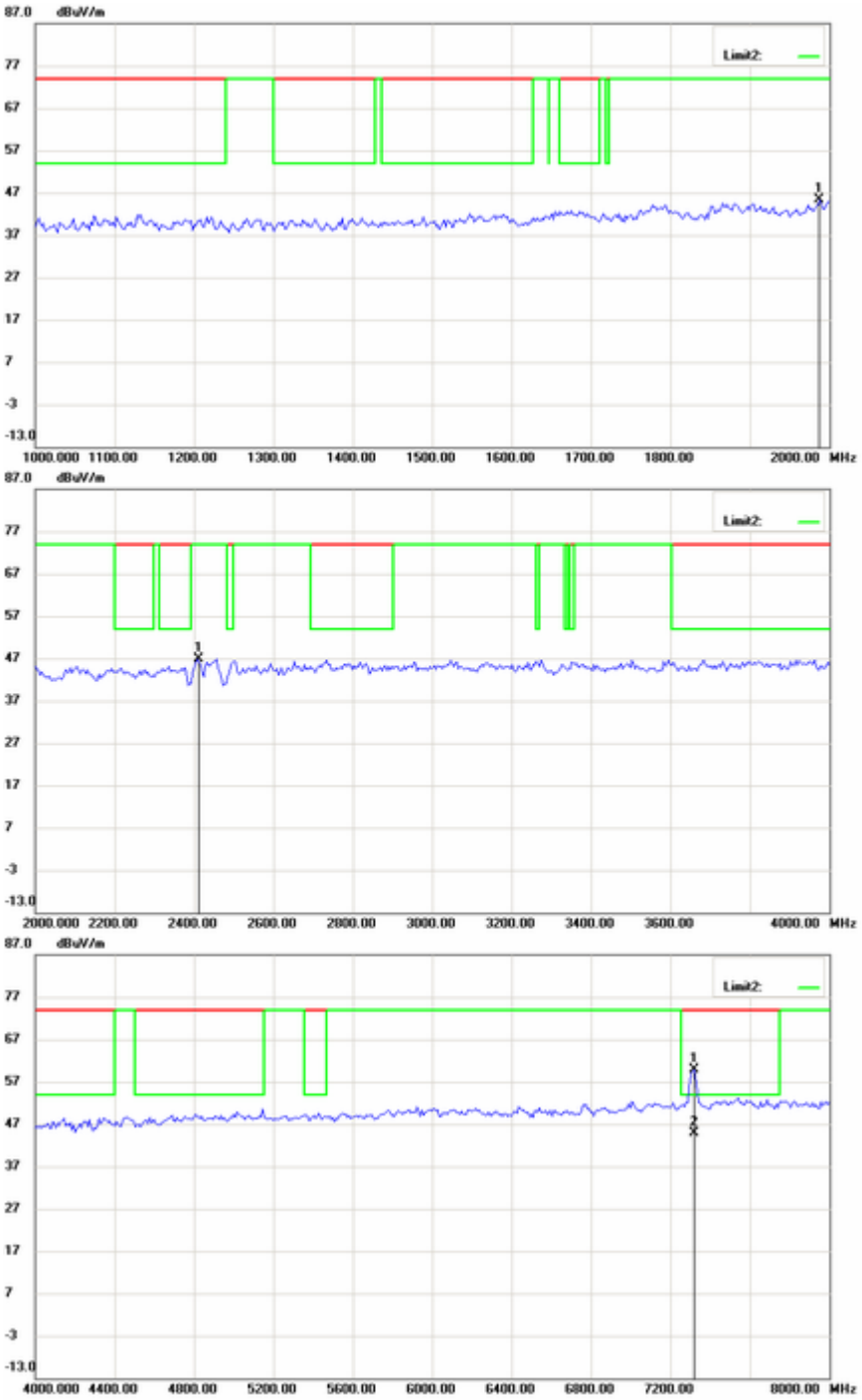


Channel 6
Antenna Polarization H



Up Line: PK 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.**



Up Line: PK 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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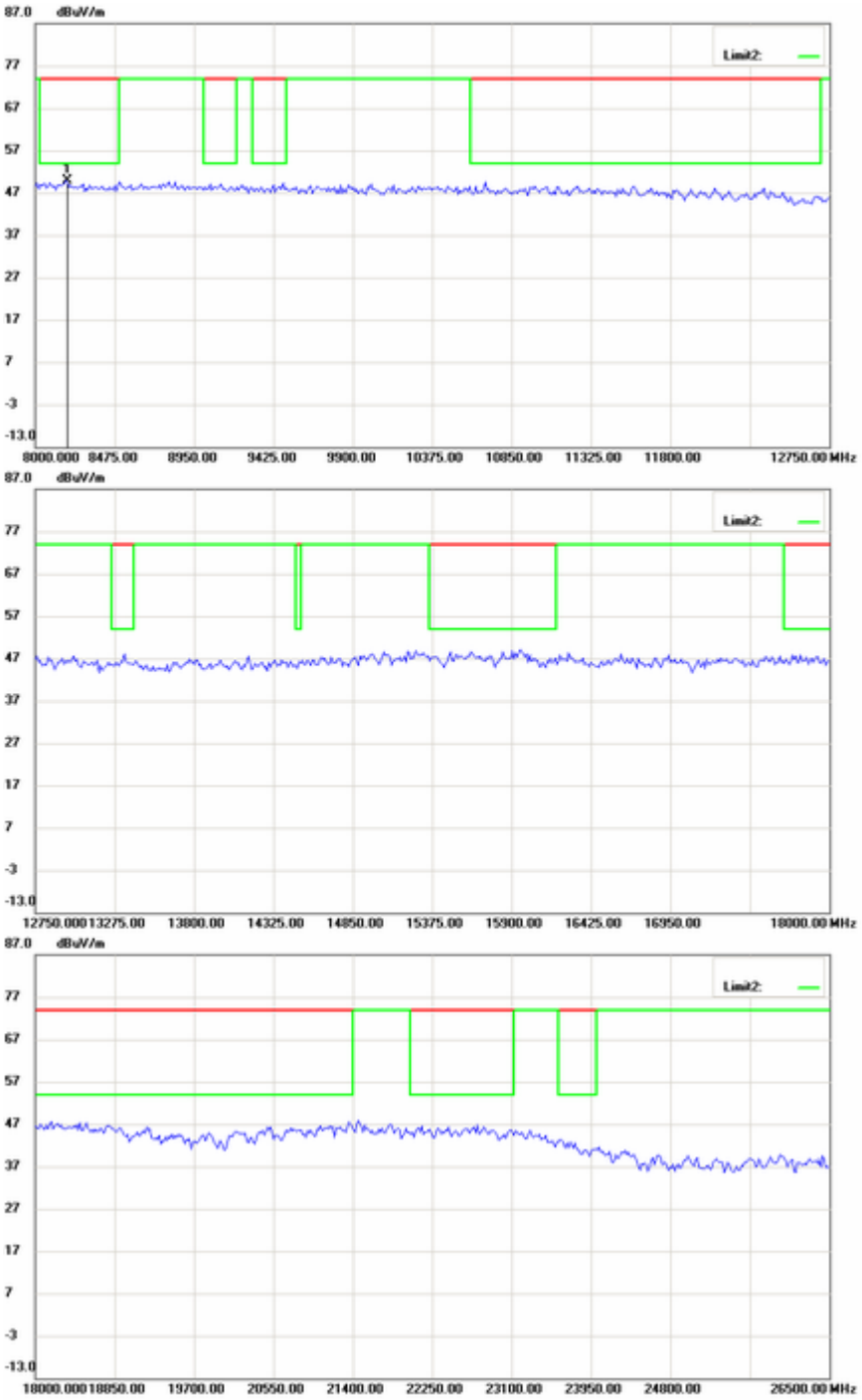

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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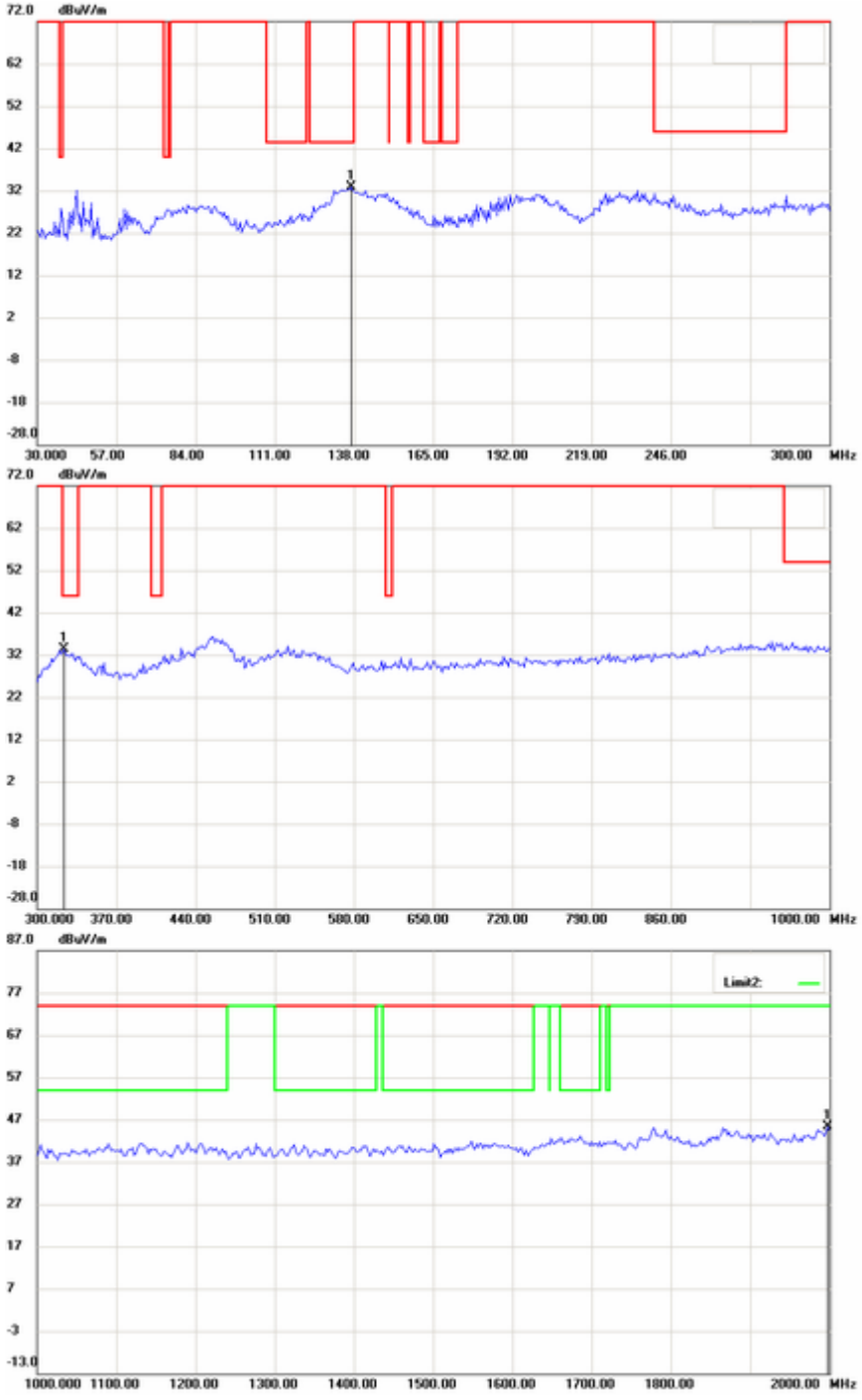
Registration number: W6M20804-9041-C-1
FCC ID: Q3MMIP200

Antenna Polarization V



Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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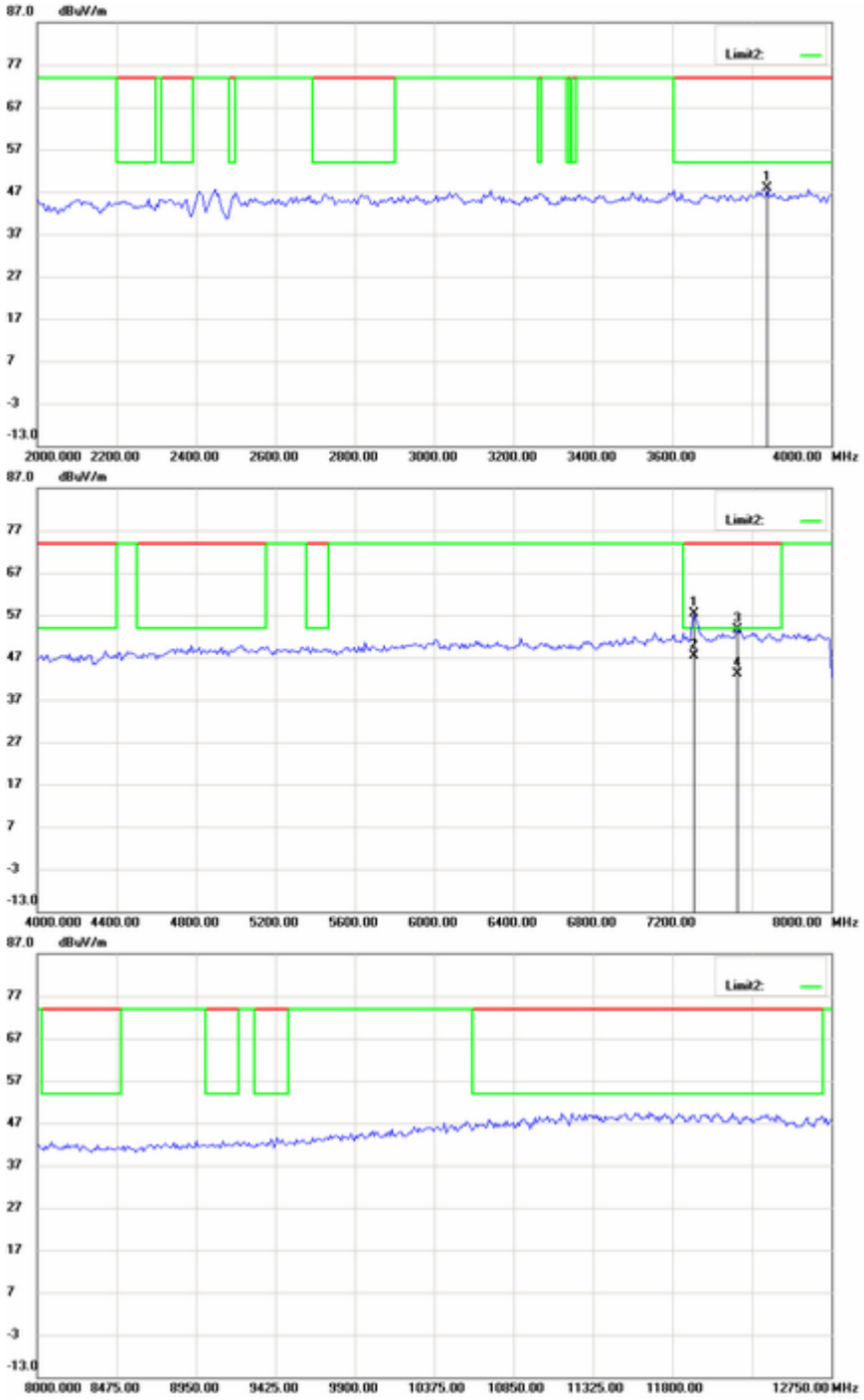

Up Line: PK Limit Line
Down Line: Ave Limit Line
Note:

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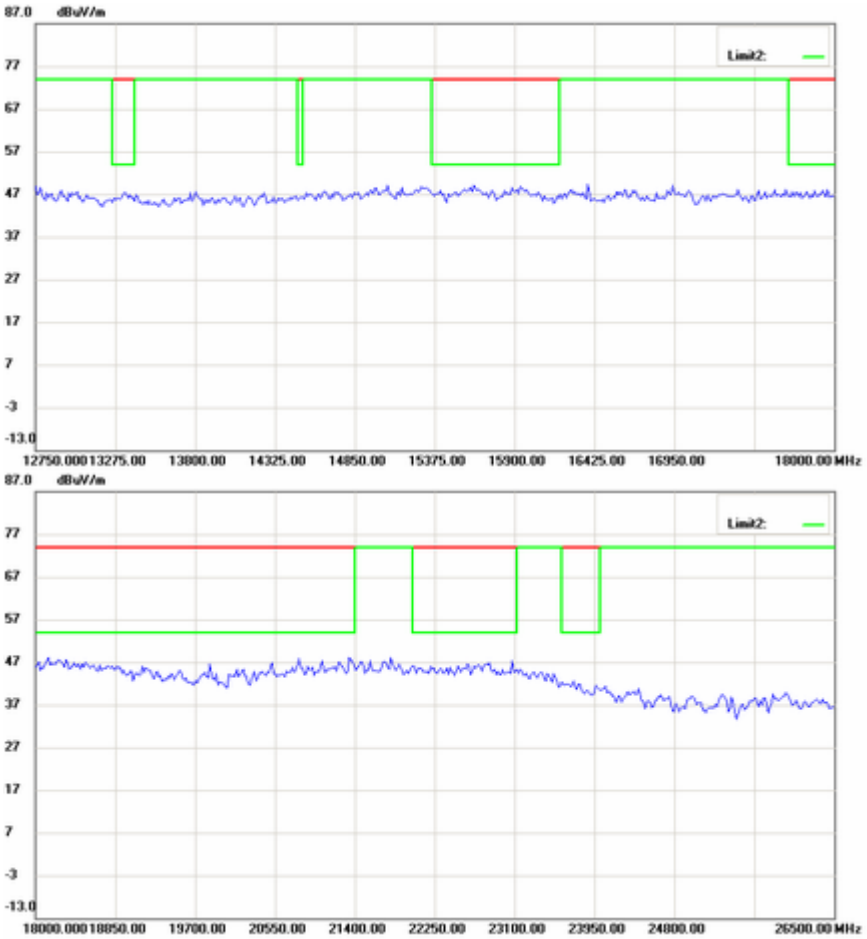
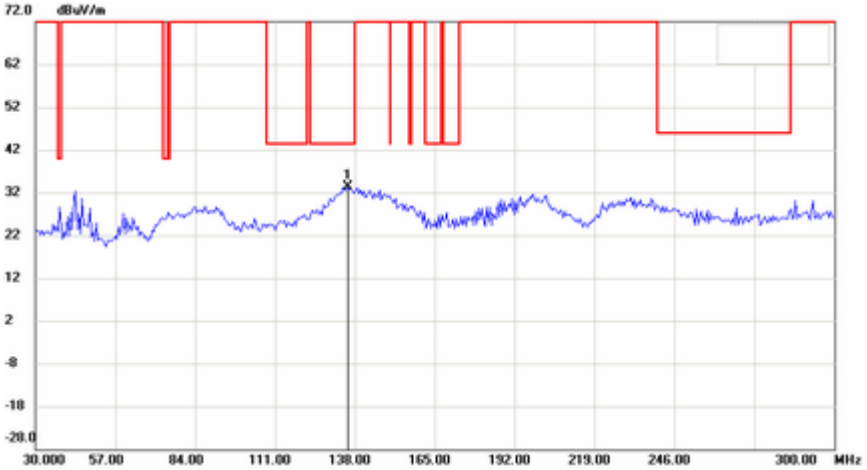


Channel 11
Antenna Polarization H



Up Line: PK Limit Line
Down Line: Ave Limit Line
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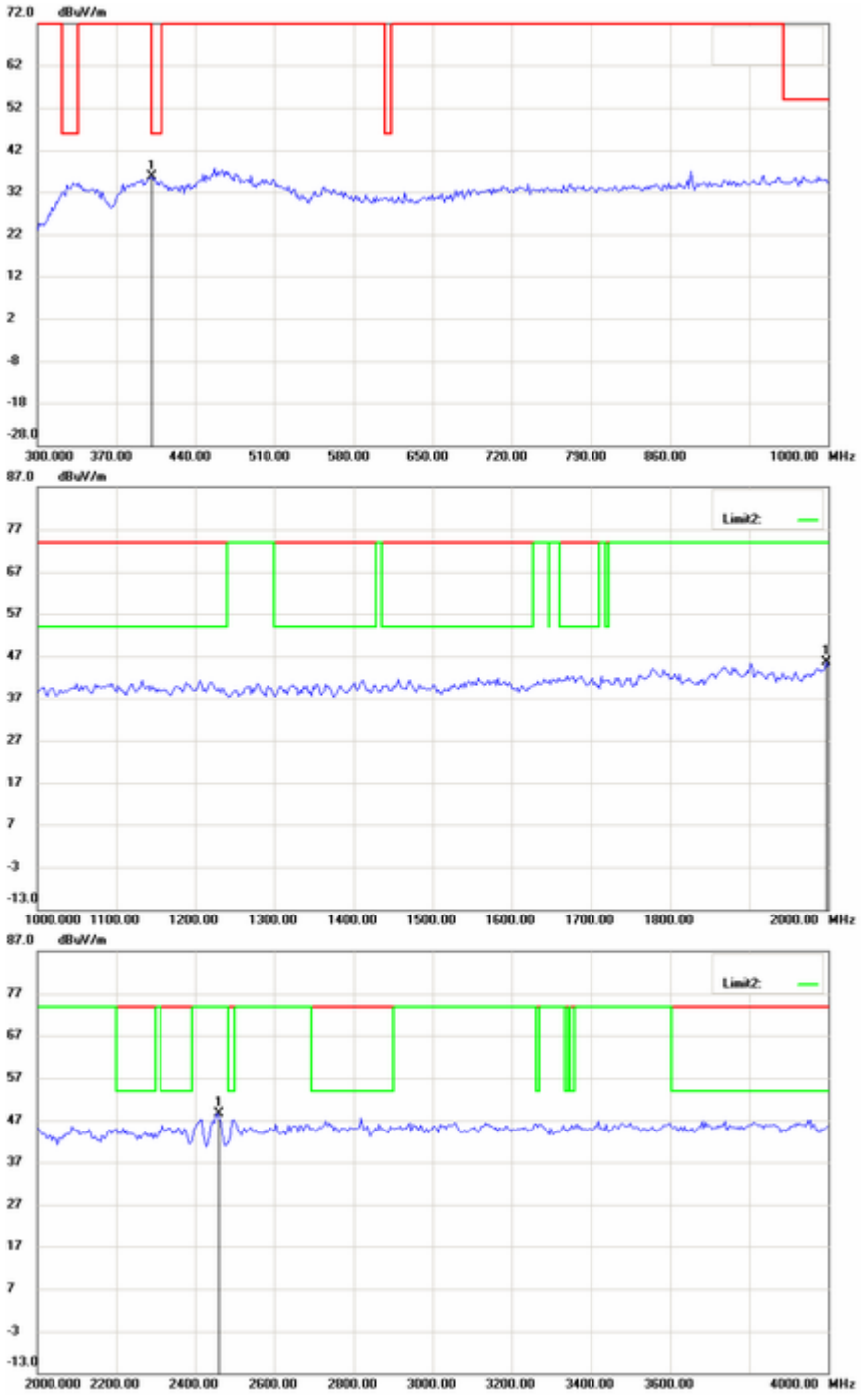

Up Line: PK Limit Line
Down Line: Ave Limit Line
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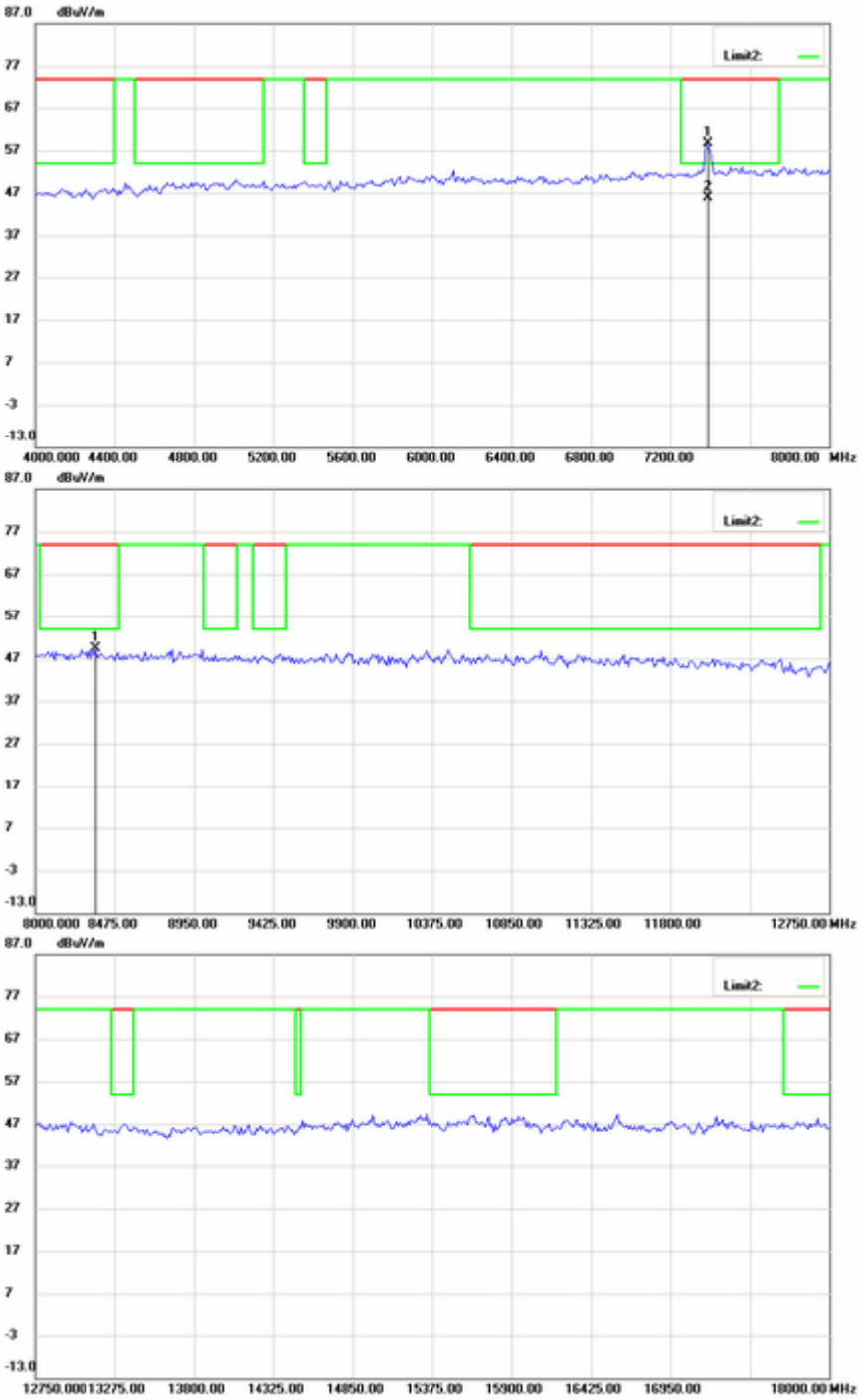

Up Line: PK Limit Line
Down Line: Ave Limit Line
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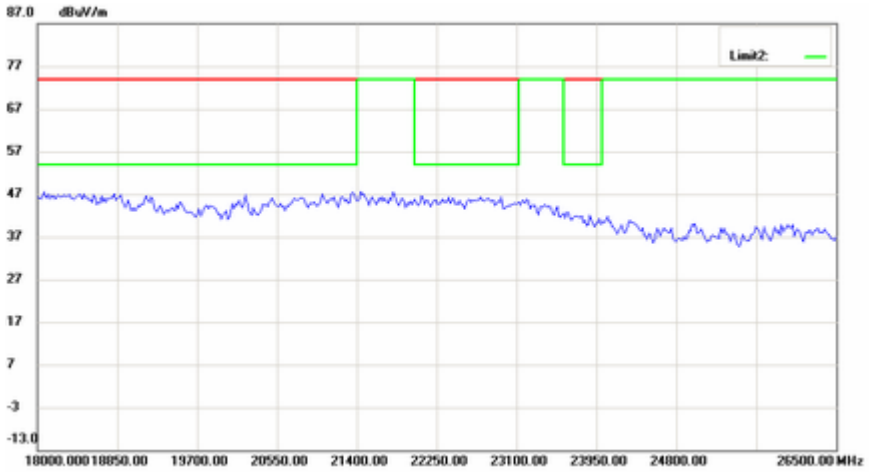
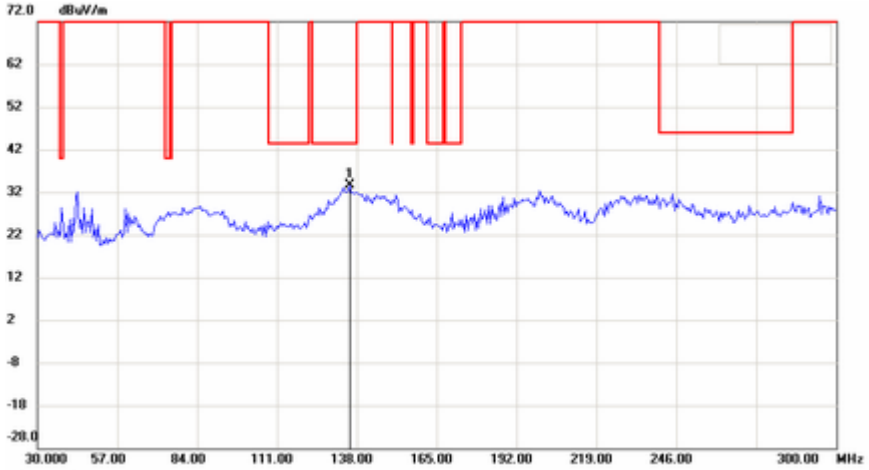
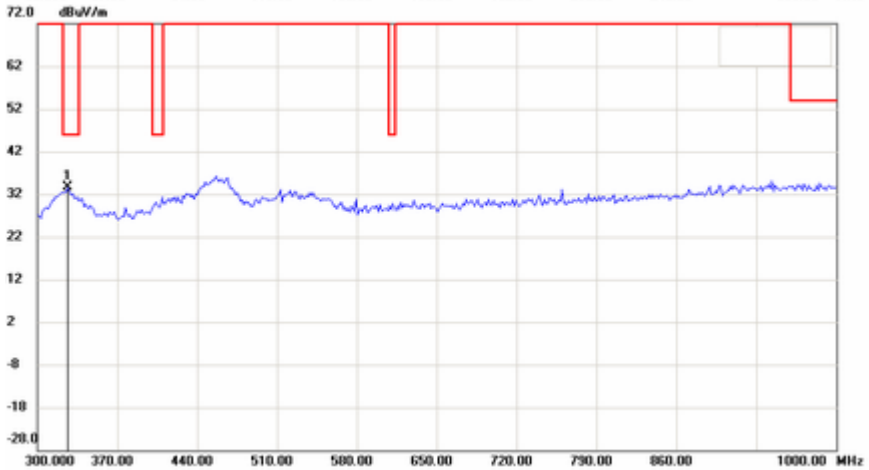


Antenna Polarization V





Up Line: PK Limit Line
Down Line: Ave Limit Line
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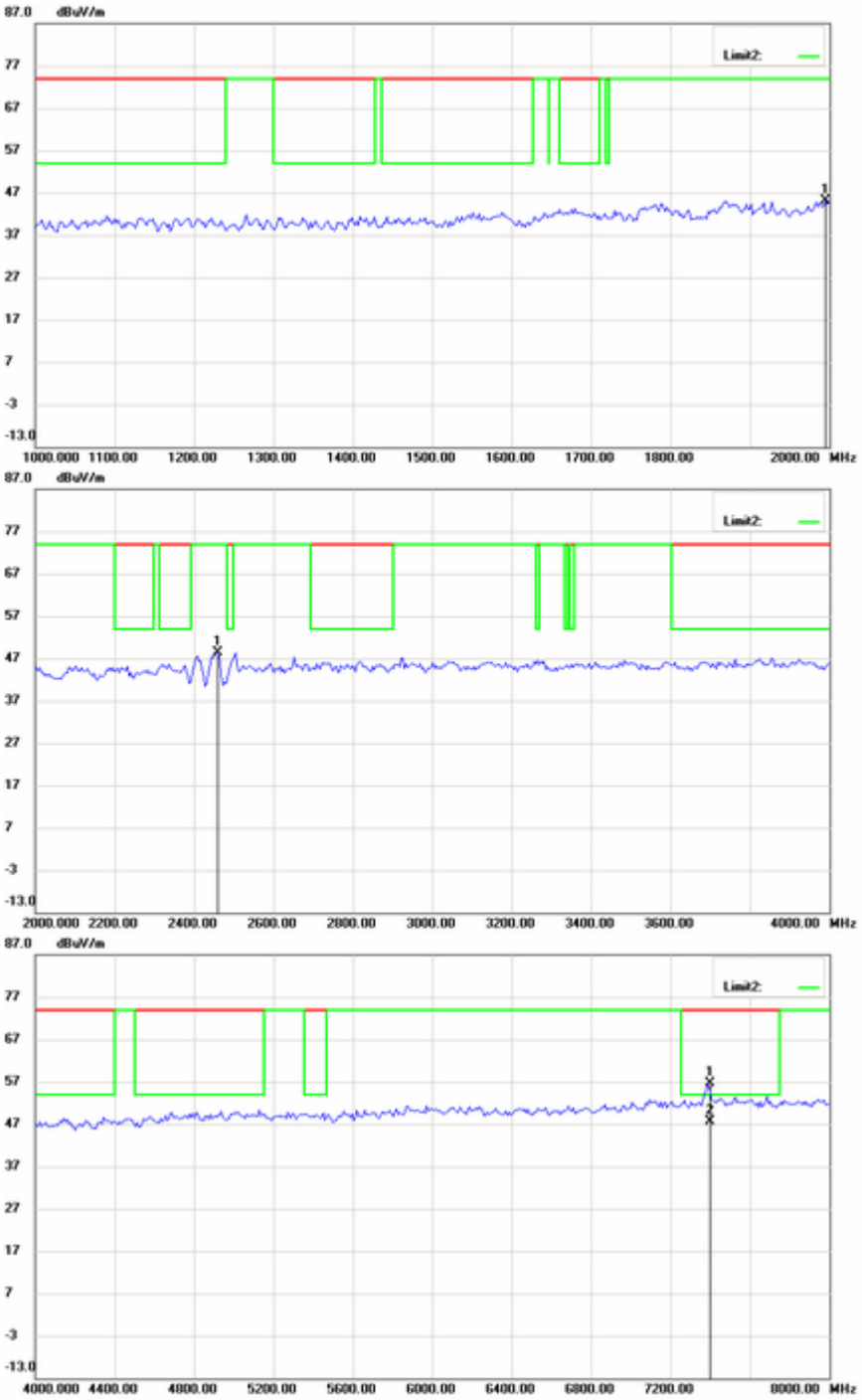

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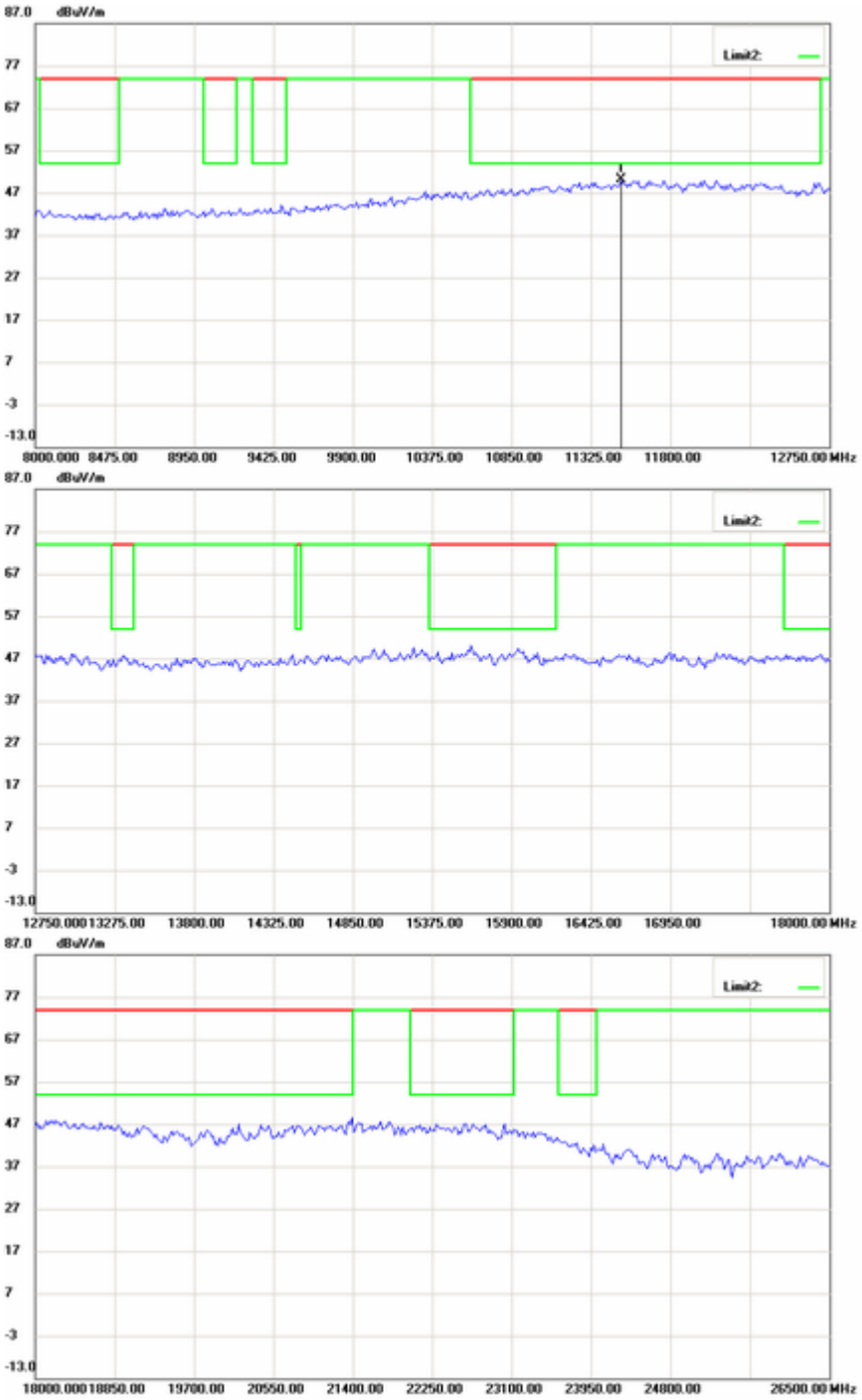

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