

FCC&IC Radio Test Report

FCC ID: TVE-24100012

IC: 7280B-24100012

This report concerns (check one): Original Grant Class II Change

Project No. : 1504C174
Equipment : Wireless Access Point
Model Name for FCC : FORTIAP-C220Cxxxxxx; FAP-C220Cxxxxxx; FORTIAP-C225Cxxxxxx; FAP-C225Cxxxxxx
Model Name for IC : FORTIAP-C220C; FAP-C220C; FORTIAP-C225C; FAP-C225C
Applicant : Fortinet, Inc.
Address : 899 Kifer Road, Sunnyvale, CA 94086 USA

Date of Receipt : May 05. 2015
Date of Test : May 05. 2015~Jun.15.2015
Issued Date : Jun.16.2015
Tested by : BTL Inc.

Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

BTL's reports apply only to the specific samples tested under conditions. It is manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

| Table of Contents | Page |
|---|-----------|
| 1 . CERTIFICATION | 6 |
| 2 . SUMMARY OF TEST RESULTS | 7 |
| 2.1 TEST FACILITY | 8 |
| 2.2 MEASUREMENT UNCERTAINTY | 8 |
| 3 . GENERAL INFORMATION | 9 |
| 3.1 GENERAL DESCRIPTION OF EUT | 9 |
| 3.2 DESCRIPTION OF TEST MODES | 12 |
| 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING | 13 |
| 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 14 |
| 3.5 DESCRIPTION OF SUPPORT UNITS | 14 |
| 4 . EMC EMISSION TEST | 15 |
| 4.1 CONDUCTED EMISSION MEASUREMENT | 15 |
| 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS | 15 |
| 4.1.2 TEST PROCEDURE | 15 |
| 4.1.3 DEVIATION FROM TEST STANDARD | 15 |
| 4.1.4 TEST SETUP | 16 |
| 4.1.5 EUT OPERATING CONDITIONS | 16 |
| 4.1.6 EUT TEST CONDITIONS | 16 |
| 4.1.7 TEST RESULTS | 16 |
| 4.2 RADIATED EMISSION MEASUREMENT | 17 |
| 4.2.1 RADIATED EMISSION LIMITS | 17 |
| 4.2.2 TEST PROCEDURE | 18 |
| 4.2.3 DEVIATION FROM TEST STANDARD | 18 |
| 4.2.4 TEST SETUP | 18 |
| 4.2.5 EUT OPERATING CONDITIONS | 19 |
| 4.2.6 EUT TEST CONDITIONS | 19 |
| 4.2.7 TEST RESULTS (9KHZ TO 30MHZ) | 20 |
| 4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ) | 20 |
| 4.2.9 TEST RESULTS (ABOVE 1000 MHZ) | 20 |
| 5 . BANDWIDTH TEST | 21 |
| 5.1 APPLIED PROCEDURES | 21 |
| 5.1.1 TEST PROCEDURE | 21 |
| 5.1.2 DEVIATION FROM STANDARD | 21 |
| 5.1.3 TEST SETUP | 21 |
| 5.1.4 EUT OPERATION CONDITIONS | 21 |
| 5.1.5 EUT TEST CONDITIONS | 21 |
| 5.1.6 TEST RESULTS | 21 |

| Table of Contents | Page |
|--|------------|
| 6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST | 22 |
| 6.1 APPLIED PROCEDURES / LIMIT | 22 |
| 6.1.1 TEST PROCEDURE | 22 |
| 6.1.2 DEVIATION FROM STANDARD | 22 |
| 6.1.3 TEST SETUP | 22 |
| 6.1.4 EUT OPERATION CONDITIONS | 22 |
| 6.1.5 EUT TEST CONDITIONS | 22 |
| 6.1.6 TEST RESULTS | 22 |
| 7 . ANTENNA CONDUCTED SPURIOUS EMISSION | 23 |
| 7.1 APPLIED PROCEDURES / LIMIT | 23 |
| 7.1.1 TEST PROCEDURE | 23 |
| 7.1.2 DEVIATION FROM STANDARD | 23 |
| 7.1.3 TEST SETUP | 23 |
| 7.1.4 EUT OPERATION CONDITIONS | 23 |
| 7.1.5 EUT TEST CONDITIONS | 23 |
| 7.1.6 TEST RESULTS | 23 |
| 8 . POWER SPECTRAL DENSITY TEST | 24 |
| 8.1 APPLIED PROCEDURES / LIMIT | 24 |
| 8.1.1 TEST PROCEDURE | 24 |
| 8.1.2 DEVIATION FROM STANDARD | 24 |
| 8.1.3 TEST SETUP | 24 |
| 8.1.4 EUT OPERATION CONDITIONS | 24 |
| 8.1.5 EUT TEST CONDITIONS | 24 |
| 8.1.6 TEST RESULTS | 24 |
| 9 . MEASUREMENT INSTRUMENTS LIST | 25 |
| 10 . EUT TEST PHOTO | 27 |
| ATTACHMENT A - CONDUCTED EMISSION | 35 |
| ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ) | 40 |
| ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ) | 43 |
| ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ) | 56 |
| ATTACHMENT E - BANDWIDTH | 153 |
| ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER | 170 |
| ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION | 177 |
| ATTACHMENT H - POWER SPECTRAL DENSITY | 226 |

REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|---------------------|-----------------|-------------|
| BTL-FICP-1-1504C174 | Original Issue. | Jun.16.2015 |

1. CERTIFICATION

| | |
|--------------------|--|
| Equipment | : Wireless Access Point |
| Brand Name | : fortinet |
| Model Name for FCC | : FORTIAP-C220Cxxxxxx; FAP-C220Cxxxxxx; FORTIAP-C225Cxxxxxx; FAP-C225Cxxxxxx |
| Model Name for IC | : FORTIAP-C220C; FAP-C220C; FORTIAP-C225C; FAP-C225C |
| Applicant | : Fortinet, Inc. |
| Manufacturer | : Shenzhen Netcore Industrial Ltd. |
| Address | : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China. |
| Factory | : Dongguan City Netcore Network Technology Co.,Ltd. |
| Address | : No.10-1,Sankeng Road,Qinghutou,Tangxia Town,Don guan City |
| Date of Test | : May 05. 2015~Jun.15.2015 |
| Test Sample | : ENGINEERING SAMPLE |
| Standard(s) | : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013 Canada RSS-247 Issue 1, May 2015 RSS-GEN Issue 4, Nov 2014 |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-1-1504C174) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2014 Canada RSS-247 Issue 1, May 2015, RSS-GEN Issue 4, Nov 2014 | | | | |
|---|-----------------|-------------------------------------|----------|--------|
| Standard(s) | Section | Test Item | Judgment | Remark |
| FCC | IC | | | |
| 15.207 | RSS-GEN 8.8 | Conducted Emission | PASS | |
| 15.247(d) | RSS-247 5.5 | Antenna conducted Spurious Emission | PASS | |
| 15.247(a)(2) | RSS-247 5.2 (1) | 6dB Bandwidth | PASS | |
| 15.247(b)(3) | RSS-247 5.4 (4) | Peak Output Power | PASS | |
| 15.247(e) | RSS-247 5.2 (2) | Power Spectral Density | PASS | |
| 15.203 | - | Antenna Requirement | PASS | |
| 15.209/15.205 | RSS-247 5.5 | Transmitter Radiated Emissions | PASS | |

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792

BTL's test firm number for FCC: 319330

BTL's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cisp} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 % .

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U , (dB) | NOTE |
|-----------|--------|-----------------------------|------------|------|
| DG-C02 | CISPR | 150 KHz ~ 30MHz | 1.94 | |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U , (dB) | NOTE |
|-----------|--------|-----------------------------|------------|------------|------|
| DG-CB03 | CISPR | 9 Hz~30MHz | V | 3.79 | |
| | | 9KHz~30MHz | H | 3.57 | |
| | | 30MHz ~ 200MHz | V | 3.82 | |
| | | 30MHz ~ 200MHz | H | 3.60 | |
| | | 200MHz ~ 1,000MHz | V | 3.86 | |
| | | 200MHz ~ 1,000MHz | H | 3.94 | |
| | | 1GHz~18GHz | V | 3.12 | |
| | | 1GHz~18GHz | H | 3.68 | |
| | | 18GHz~40GHz | V | 4.15 | |
| | | 18GHz~40GHz | H | 4.14 | |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------|---|--|
| Equipment | Wireless Access Point | |
| Brand Name | fortinet | |
| Model Name for FCC | FORTIAP-C220Cxxxxxx; FAP-C220Cxxxxxx; FORTIAP-C225Cxxxxxx; FAP-C225Cxxxxxx | |
| Model Name for IC | FORTIAP-C220C; FAP-C220C; FORTIAP-C225C; FAP-C225C | |
| Model Difference | (1) where "x" can be "0-9", or "A-Z", or "-", or blank for marketing purposes or software changes only (2) The model FORTIAP-C220Cxxxxxx; FAP-C220Cxxxxxx with internal antenna, model FORTIAP-C225Cxxxxxx; FAP-C225Cxxxxxx with external antenna. | |
| Product Description | Operation Frequency | 2412~2462 MHz |
| | Modulation Technology | 802.11b:DSSS 802.11g:OFDM 802.11n:OFDM |
| | Bit Rate of Transmitter | 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps |
| | Output Power (Max.) for Internal antenna | 802.11b: 17.99dBm 802.11g: 22.31dBm 802.11n(20MHz): 23.02dBm 802.11n(40MHz): 23.53dBm |
| | Output Power (Max.) for External antenna | 802.11b: 17.97dBm 802.11g: 22.31dBm 802.11n(20MHz): 22.96dBm 802.11n(40MHz): 23.58dBm |
| Power Source | #1 DC Voltage supplied from AC/DC adapter.(support unit) #2 Supplied from PoE. (support unit) | |
| Power Rating | #1 I/P: AC 100-240V O/P: DC 12V/2A #2 DC 48V | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz) | | | | | | | |
|--|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| 02 | 2417 | 05 | 2432 | 08 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | | |

3.

Internal antenna

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) | Note |
|------|---|------------------------|--------------|-----------|------------|------|
| 1 |  | RFPCA3806 17NNAB301 | PCB | N/A | 3.00 | 2.4G |
| 2 |  | RFPCA3806 20NNAB301 | PCB | N/A | 4.16 | 2.4G |

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}**, that is Directional gain=4.16
- (2) ANT 2 for 1TX is the worst case.

4.

External antenna

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) | Note |
|------|---|-------------|--------------|-----------|------------|------|
| 1 |  | RF21S00081A | Dipole | R-SMA | 4.30 | 2.4G |
| 2 |  | RF21S00081A | Dipole | R-SMA | 4.30 | 2.4G |

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}**, that is Directional gain=4.30
- (2) ANT 1 for 1TX is the worst case.

5.

Internal antenna

| Operating Mode TX Mode | 1TX | 2TX |
|---------------------------|-----------|-------------------|
| 802.11b | V (ANT 2) | - |
| 802.11g | V (ANT 2) | - |
| 802.11n(20MHz) | - | V (ANT 1 + ANT 2) |
| 802.11n(40MHz) | - | V (ANT 1 + ANT 2) |

External antenna

| Operating Mode TX Mode | 1TX | 2TX |
|---------------------------|-----------|-------------------|
| 802.11b | V (ANT 1) | - |
| 802.11g | V (ANT 1) | - |
| 802.11n(20MHz) | - | V (ANT 1 + ANT 2) |
| 802.11n(40MHz) | - | V (ANT 1 + ANT 2) |

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|----------------------------------|
| Mode 1 | TX B MODE CHANNEL 01/06/11 |
| Mode 2 | TX G MODE CHANNEL 01/06/11 |
| Mode 3 | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4 | TX N-40MHZ MODE CHANNEL 03/06/09 |
| Mode 5 | TX MODE |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| For Conducted Test | |
|--------------------|-------------|
| Final Test Mode | Description |
| Mode 5 | TX MODE |

| For Radiated Test | |
|-------------------|----------------------------------|
| Final Test Mode | Description |
| Mode 1 | TX B MODE CHANNEL 01/06/11 |
| Mode 2 | TX G MODE CHANNEL 01/06/11 |
| Mode 3 | TX N-20MHZ MODE CHANNEL 01/06/11 |
| Mode 4 | TX N-40MHZ MODE CHANNEL 03/06/09 |

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)

For radiated emission tests, the highest output powers were set for final test.

- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

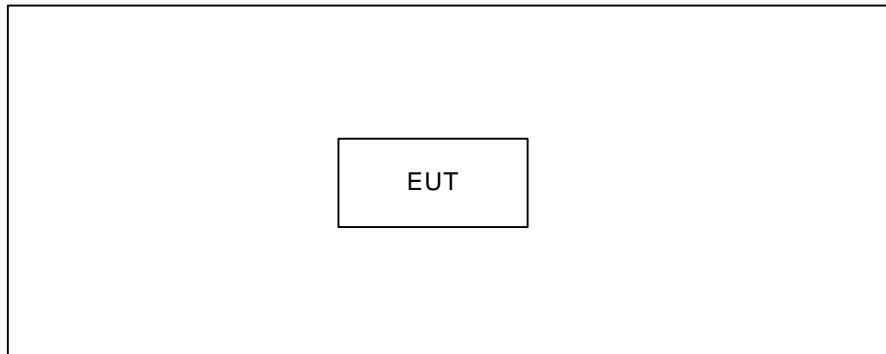
Internal antenna

| Test software version | NA | | |
|-----------------------|-------|-------|-------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| 802.11b | 13 | 15 | 14 |
| 802.11g | 25 | 25 | 25 |
| 802.11n (20MHz) | 22,21 | 22,20 | 20,20 |
| Frequency | 2422 | 2437 | 2452 |
| 802.11n (40MHz) | 25,25 | 24,24 | 23,24 |

External antenna

| Test software version | NA | | |
|-----------------------|-------|-------|-------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| 802.11b | 10 | 10 | 11 |
| 802.11g | 21 | 21 | 22 |
| 802.11n (20MHz) | 16,19 | 17,19 | 15,16 |
| Frequency | 2422 | 2437 | 2452 |
| 802.11n (40MHz) | 19,23 | 20,23 | 20,23 |

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID/IC | Series No. | Note |
|------|-----------|-----------|----------------|-----------|------------|------|
| - | - | - | - | - | - | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| - | - | - | - | |

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0 5 -0. | 66 to 56* | 56 to 46* |
| 0.50 -5.0 | 56 | 46 |
| 5.0 -30.0 | 60 | 50 |

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 KHz |

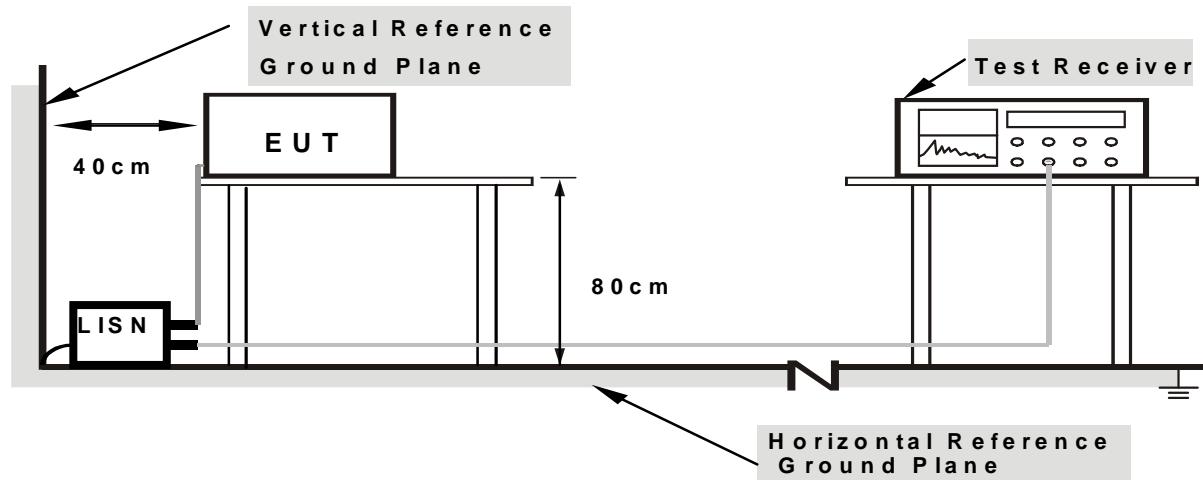
4.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-247 5.5, then the 15.209(a)& RSS-Gen limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| Frequency (MHz) | (dBuV/m) (at 3 meters) | |
|-----------------|------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C& RSS-247.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

| Spectrum Parameter | Setting |
|--|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RBW / VBW (Emission in restricted band) | RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value |

| Receiver Parameter | Setting |
|------------------------|-----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

4.2.2 TEST PROCEDURE

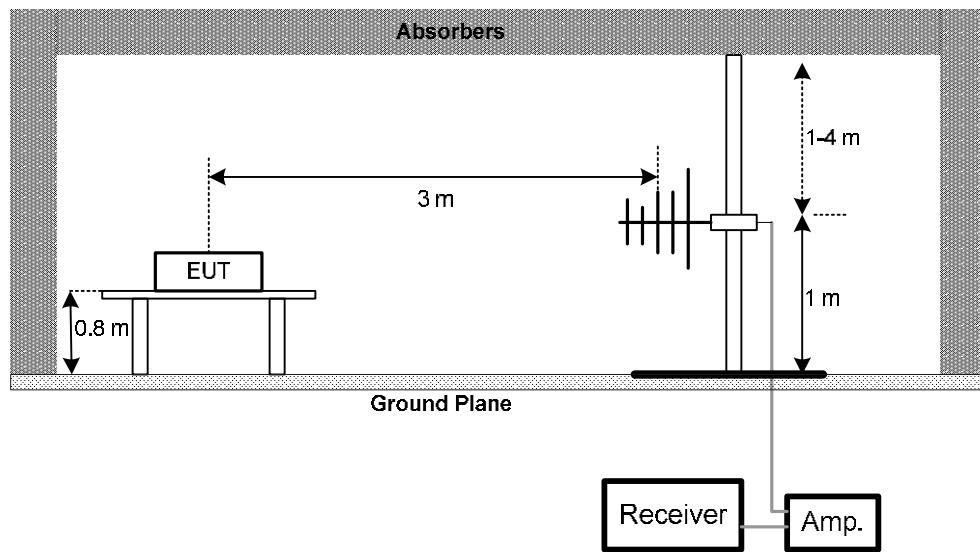
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

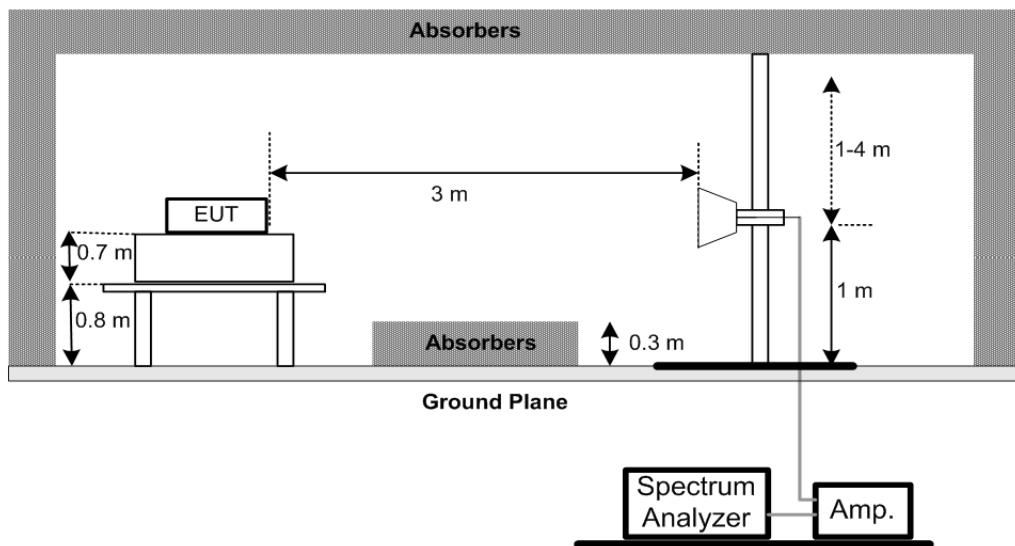
No deviation

4.2.4 TEST SETUP

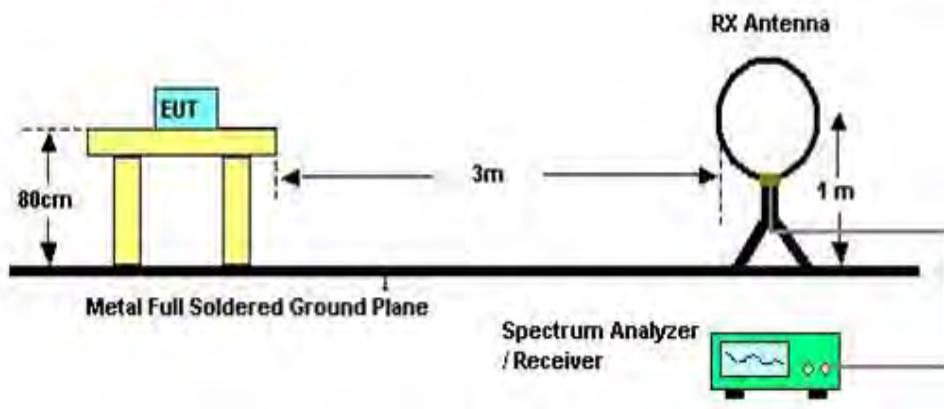
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-247 | | | |
|--|-----------|-----------------------|--------|
| Section | Test Item | Frequency Range (MHz) | Result |
| 15.247(a)(2) RSS-GEN section 6.6 RSS-247 5.2 (1) | Bandwidth | 2400-2483.5 | PASS |

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C/ RSS-247 | | | | |
|--|----------------------|-----------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) RSS-247 5.4 (4) | Maximum Output Power | 1 Watt or 30dBm | 2400-2483.5 | PASS |

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB 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, provided that the transmitter demonstrates compliance with the peak conducted power limits.

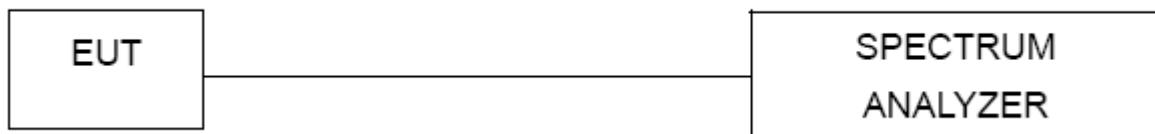
7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C / RSS-247 | | | | |
|---|------------------------|------------------------|-----------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(e) RSS-247 5.2 (2) | Power Spectral Density | 8 dBm (in any 3KHz) | 2400-2483.5 | PASS |

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement | | | | | |
|--------------------------------|----------------------|--------------|-----------------------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | LISN | EMCO | 3816/2 | 00052765 | Mar. 28, 2016 |
| 2 | LISN | R&S | ENV216 | 101447 | Mar. 28, 2016 |
| 3 | Test Cable | N/A | C_17 | N/A | Mar.13, 2016 |
| 4 | EMI TEST RECEIVER | R&S | ESCS30 | 833364/017 | Mar. 28, 2016 |
| 5 | 50Ω Terminator | SHX | TF2-3G-A | 08122902 | Mar. 28, 2016 |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| Radiated Emission Measurement | | | | | |
|-------------------------------|-------------------------------------|----------------|-----------------------|---------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | Mar. 28, 2016 |
| 2 | Amplifier | HP | 8447D | 2944A09673 | Nov. 17, 2015 |
| 3 | Receiver | AGILENT | N9038A | MY52130039 | Sep. 30, 2015 |
| 4 | Test Cable | N/A | C-01_CB03 | N/A | Jul. 01, 2015 |
| 5 | Controller | CT | SC100 | N/A | N/A |
| 6 | Antenna | ETS | 3115 | 00075789 | Mar. 28, 2016 |
| 7 | Amplifier | Agilent | 8449B | 3008A02274 | Nov. 02, 2015 |
| 8 | Receiver | AGILENT | N9038A | MY52130039 | Sep. 30, 2015 |
| 9 | Test Cable | N/A | C-68 | N/A | Jul. 01, 2015 |
| 10 | Controller | CT | SC100 | N/A | N/A |
| 11 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Mar. 28, 2016 |
| 12 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 28, 2016 |
| 13 | Active Loop Antenna | R&S | HFH2-Z2 | 830749/020 | Aug. 16, 2015 |
| 14 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| 6dB Bandwidth Measurement | | | | | |
|----------------------------------|-------------------|--------------|----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | Nov. 02, 2015 |

| Peak Output Power Measurement | | | | | |
|--------------------------------------|--------------------|--------------|----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | power Meter | ANRITSU | ML2495A | 1128009 | Mar. 28, 2016 |
| 2 | Pulse Power Sensor | ANRITSU | MA 2411B | 1027500 | Mar. 28, 2016 |

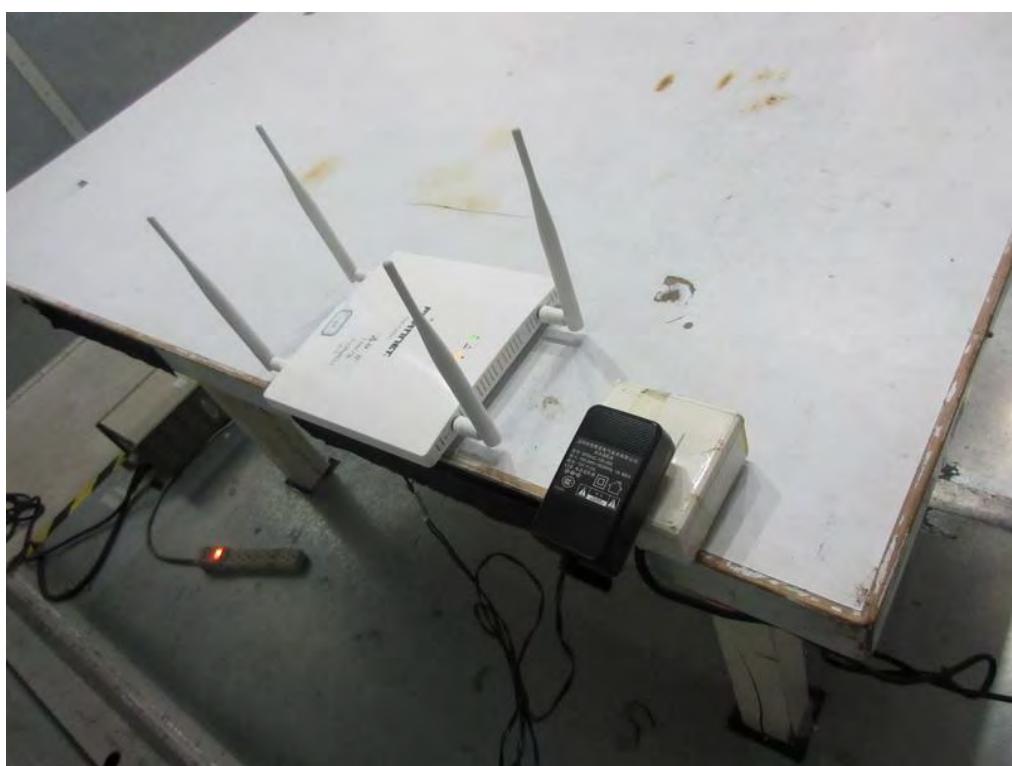
| Antenna Conducted Spurious Emission Measurement | | | | | |
|--|-------------------|--------------|----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | Nov. 02, 2015 |

| Power Spectral Density Measurement | | | | | |
|---|-------------------|--------------|----------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP 40 | 100185 | Nov. 02, 2015 |

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTO**Conducted Measurement Photos****Internal antenna**

Conducted Measurement Photos**External antenna**

Radiated Measurement Photos

9KHz to 30MHz
Internal antenna



Radiated Measurement Photos

9KHz to 30MHz
External antenna



Radiated Measurement Photos

30MHz to 1000MHz
Internal antenna



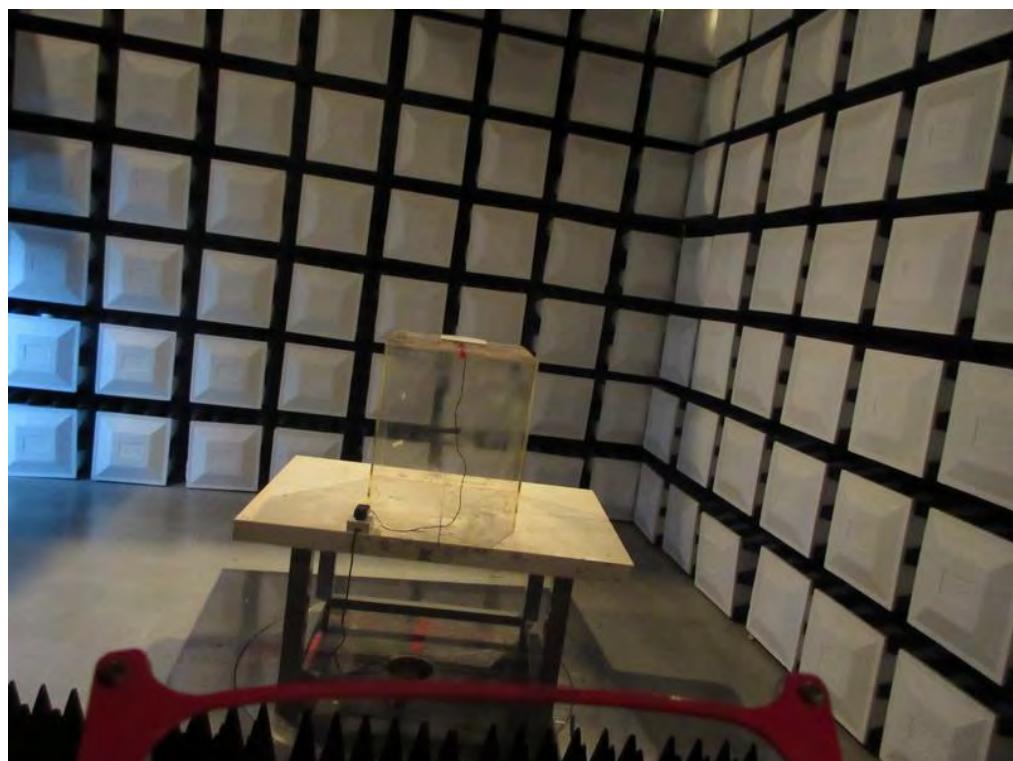
Radiated Measurement Photos

30MHz to 1000MHz
External antenna



Radiated Measurement Photos

Above 1000MHz
Internal antenna



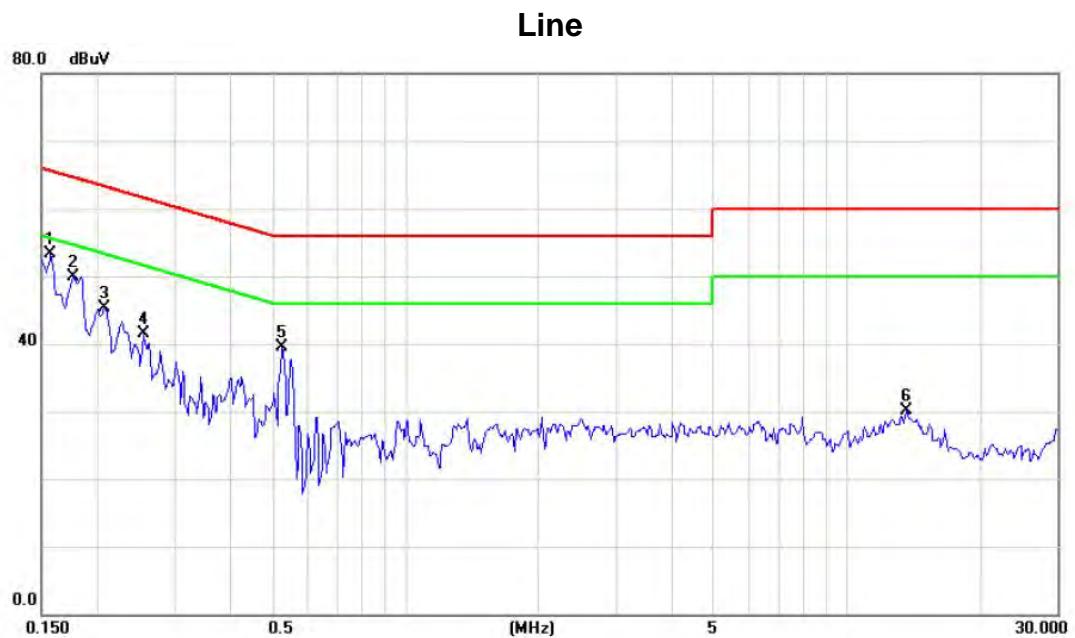
Radiated Measurement Photos

Above 1000MHz
External antenna



ATTACHMENT A - CONDUCTED EMISSION

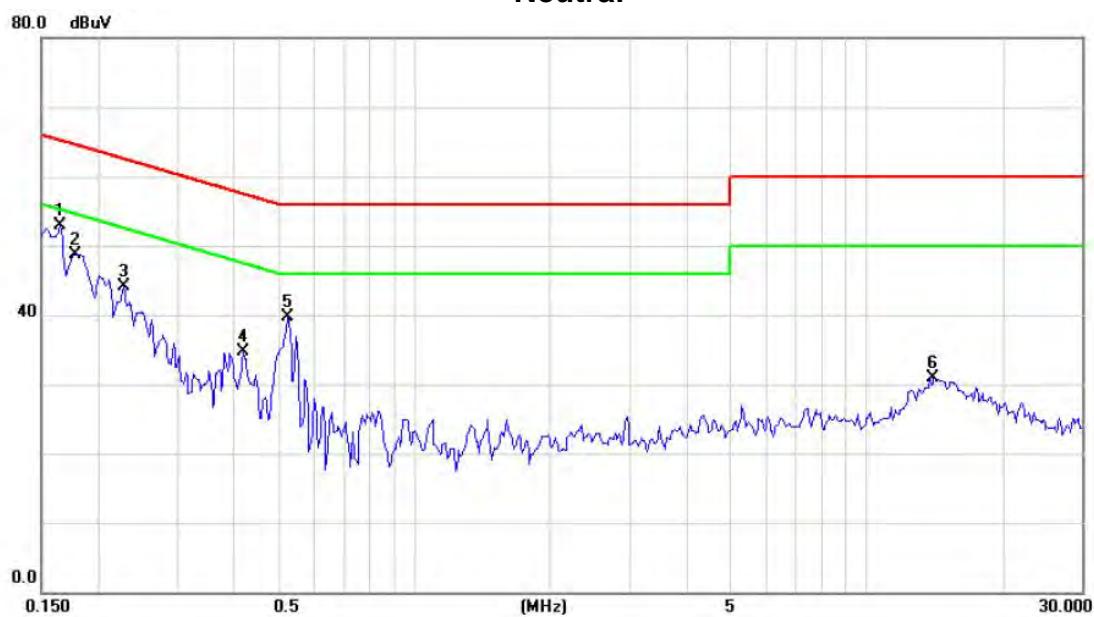
Test Mode : TX MODE- Internal antenna



| No. | Mk. | Freq. | Reading | Correct Factor | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|---------|---------|----------------|----------|-------|--------|----------|---------|
| | | | Level | | ment | | | | |
| | | MHz | dBuV | dB | dBuV | dB | | | |
| 1 | * | 0.1578 | 43.76 | 9.55 | 53.31 | 65.58 | -12.27 | peak | |
| 2 | | 0.1773 | 40.35 | 9.56 | 49.91 | 64.61 | -14.70 | peak | |
| 3 | | 0.2086 | 35.77 | 9.58 | 45.35 | 63.26 | -17.91 | peak | |
| 4 | | 0.2555 | 31.80 | 9.61 | 41.41 | 61.58 | -20.17 | peak | |
| 5 | | 0.5290 | 29.88 | 9.69 | 39.57 | 56.00 | -16.43 | peak | |
| 6 | | 13.6602 | 20.20 | 9.83 | 30.03 | 60.00 | -29.97 | peak | |

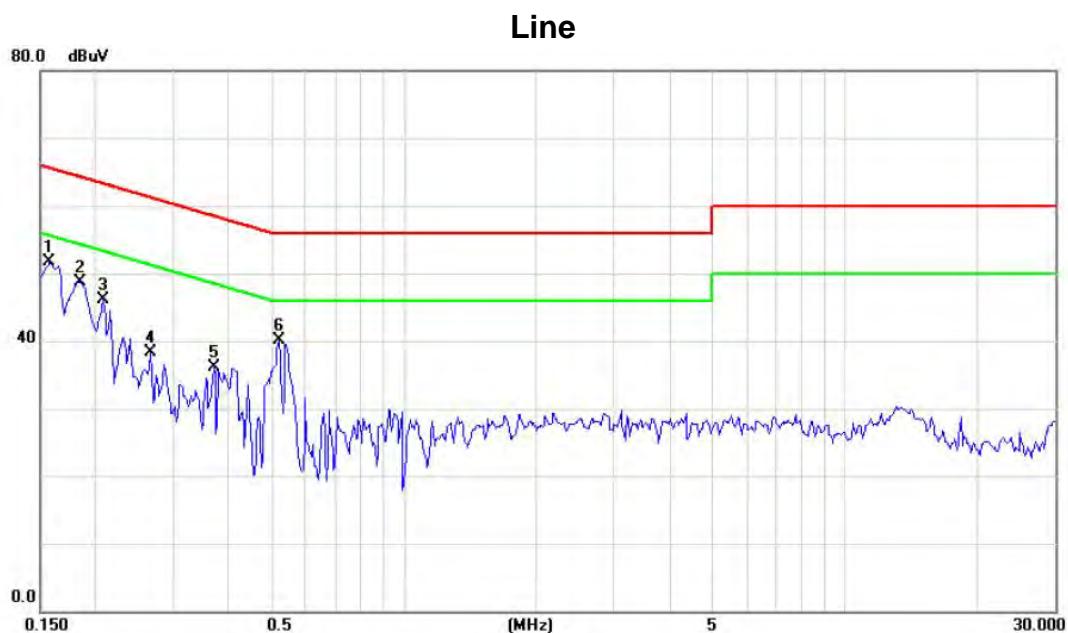
Test Mode : TX MODE- Internal antenna

Neutral



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | |
|-----|-----|---------|---------------|----------------|--------------|-------|--------|------------------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector Comment |
| 1 | * | 0.1655 | 43.44 | 9.48 | 52.92 | 65.18 | -12.26 | peak |
| 2 | | 0.1777 | 39.24 | 9.49 | 48.73 | 64.59 | -15.86 | peak |
| 3 | | 0.2281 | 34.65 | 9.51 | 44.16 | 62.52 | -18.36 | peak |
| 4 | | 0.4195 | 25.17 | 9.54 | 34.71 | 57.46 | -22.75 | peak |
| 5 | | 0.5290 | 30.22 | 9.56 | 39.78 | 56.00 | -16.22 | peak |
| 6 | | 14.1094 | 21.04 | 9.91 | 30.95 | 60.00 | -29.05 | peak |

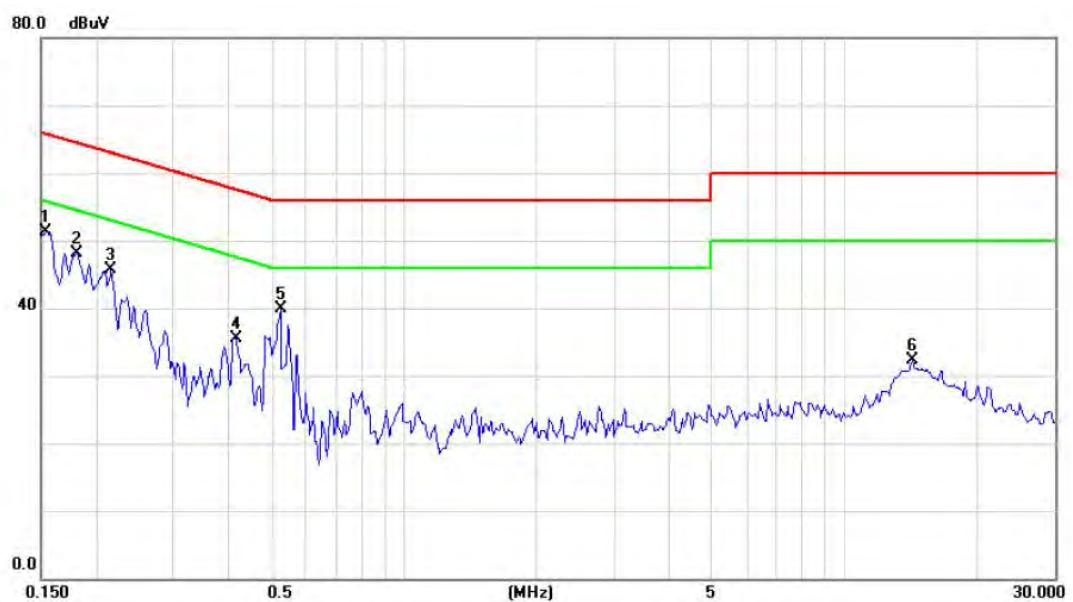
Test Mode : TX MODE- External antenna



| No. | Mk. | Reading | Correct | Measure- | Limit | Margin | | |
|-----|-----|---------|---------|----------|-------|--------|----------|---------|
| | | Freq. | Level | Factor | ment | dBuV | Detector | Comment |
| | | MHz | dBuV | dB | dBuV | dB | | |
| 1 | * | 0.1578 | 42.14 | 9.55 | 51.69 | 65.58 | -13.89 | peak |
| 2 | | 0.1852 | 39.17 | 9.57 | 48.74 | 64.25 | -15.51 | peak |
| 3 | | 0.2086 | 36.48 | 9.58 | 46.06 | 63.26 | -17.20 | peak |
| 4 | | 0.2672 | 28.63 | 9.62 | 38.25 | 61.20 | -22.95 | peak |
| 5 | | 0.3727 | 26.54 | 9.66 | 36.20 | 58.44 | -22.24 | peak |
| 6 | | 0.5211 | 30.32 | 9.69 | 40.01 | 56.00 | -15.99 | peak |

Test Mode : TX MODE- External antenna

Neutral



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dB | Margin Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|-------------|--------------------|---------|
| 1 | * | 0.1540 | 41.72 | 9.49 | 51.21 | 65.78 | -14.57 | peak |
| 2 | | 0.1812 | 38.63 | 9.49 | 48.12 | 64.43 | -16.31 | peak |
| 3 | | 0.2164 | 36.24 | 9.50 | 45.74 | 62.96 | -17.22 | peak |
| 4 | | 0.4156 | 26.05 | 9.53 | 35.58 | 57.54 | -21.96 | peak |
| 5 | | 0.5250 | 30.38 | 9.56 | 39.94 | 56.00 | -16.06 | peak |
| 6 | | 14.2305 | 22.46 | 9.91 | 32.37 | 60.00 | -27.63 | peak |

ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

| | |
|------------|-----------------------------------|
| Test Mode: | TX Mode 2412MHz- Internal antenna |
|------------|-----------------------------------|

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0106 | 0° | 10.21 | 24.90 | 35.11 | 127.10 | -91.99 | AVG |
| 0.0106 | 0° | 13.58 | 24.90 | 38.48 | 147.10 | -108.62 | PEAK |
| 0.0252 | 0° | 7.23 | 23.97 | 31.20 | 119.58 | -88.38 | AVG |
| 0.0252 | 0° | 9.72 | 23.97 | 33.69 | 139.58 | -105.89 | PEAK |
| 0.0367 | 0° | 3.54 | 23.24 | 26.78 | 116.31 | -89.53 | AVG |
| 0.0367 | 0° | 5.18 | 23.24 | 28.42 | 136.31 | -107.89 | PEAK |
| 0.0412 | 0° | 1.27 | 22.96 | 24.23 | 115.31 | -91.08 | AVG |
| 0.0412 | 0° | 2.82 | 22.96 | 25.78 | 135.31 | -109.53 | PEAK |
| 0.5104 | 0° | 16.38 | 19.83 | 36.21 | 73.45 | -37.23 | QP |
| 2.1168 | 0° | 21.55 | 19.43 | 40.98 | 69.54 | -28.56 | QP |

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0085 | 90° | 13.42 | 24.30 | 37.72 | 129.02 | -91.30 | AVG |
| 0.0085 | 90° | 15.19 | 24.30 | 39.49 | 149.02 | -109.53 | PEAK |
| 0.0193 | 90° | 8.25 | 24.30 | 32.55 | 121.89 | -89.34 | AVG |
| 0.0193 | 90° | 9.13 | 24.30 | 33.43 | 141.89 | -108.46 | PEAK |
| 0.0281 | 90° | 4.73 | 23.79 | 28.52 | 118.63 | -90.11 | AVG |
| 0.0281 | 90° | 6.18 | 23.79 | 29.97 | 138.63 | -108.66 | PEAK |
| 0.0413 | 90° | 1.57 | 22.95 | 24.52 | 115.29 | -90.76 | AVG |
| 0.0413 | 90° | 2.39 | 22.95 | 25.34 | 135.29 | -109.94 | PEAK |
| 0.5317 | 90° | 20.15 | 19.90 | 40.05 | 73.09 | -33.04 | QP |
| 1.9135 | 90° | 24.67 | 19.51 | 44.18 | 69.54 | -25.36 | QP |

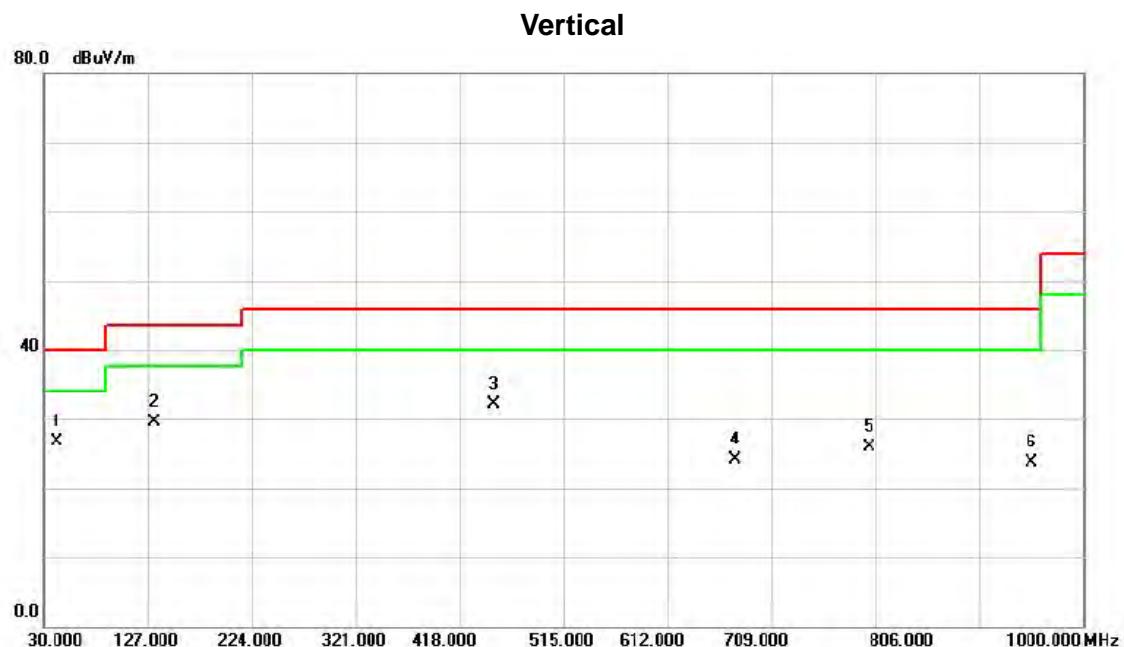
| | |
|------------|-----------------------------------|
| Test Mode: | TX Mode 2412MHz- External antenna |
|------------|-----------------------------------|

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0112 | 0° | 8.52 | 24.86 | 33.38 | 126.62 | -93.24 | AVG |
| 0.0112 | 0° | 10.61 | 24.86 | 35.47 | 146.62 | -111.15 | PEAK |
| 0.0207 | 0° | 6.24 | 24.26 | 30.50 | 121.28 | -90.79 | AVG |
| 0.0207 | 0° | 7.48 | 24.26 | 31.74 | 141.28 | -109.55 | PEAK |
| 0.0358 | 0° | 3.29 | 23.30 | 26.59 | 116.53 | -89.94 | AVG |
| 0.0358 | 0° | 4.13 | 23.30 | 27.43 | 136.53 | -109.10 | PEAK |
| 0.0411 | 0° | 1.13 | 22.96 | 24.09 | 115.33 | -91.23 | AVG |
| 0.0411 | 0° | 1.68 | 22.96 | 24.64 | 135.33 | -110.68 | PEAK |
| 0.5724 | 0° | 18.74 | 20.03 | 38.77 | 72.45 | -33.68 | QP |
| 2.1263 | 0° | 21.52 | 19.42 | 40.94 | 69.54 | -28.60 | QP |

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0091 | 90° | 12.68 | 24.30 | 36.98 | 128.42 | -91.44 | AVG |
| 0.0091 | 90° | 13.43 | 24.30 | 37.73 | 148.42 | -110.69 | PEAK |
| 0.0142 | 90° | 8.32 | 24.30 | 32.62 | 124.56 | -91.94 | AVG |
| 0.0142 | 90° | 9.75 | 24.30 | 34.05 | 144.56 | -110.51 | PEAK |
| 0.0228 | 90° | 3.18 | 24.12 | 27.30 | 120.45 | -93.14 | AVG |
| 0.0228 | 90° | 4.51 | 24.12 | 28.63 | 140.45 | -111.81 | PEAK |
| 0.0353 | 90° | 1.25 | 23.33 | 24.58 | 116.65 | -92.07 | AVG |
| 0.0353 | 90° | 2.33 | 23.33 | 25.66 | 136.65 | -110.99 | PEAK |
| 0.6203 | 90° | 18.52 | 20.18 | 38.70 | 71.75 | -33.05 | QP |
| 1.9572 | 90° | 22.77 | 19.50 | 42.27 | 69.54 | -27.27 | QP |

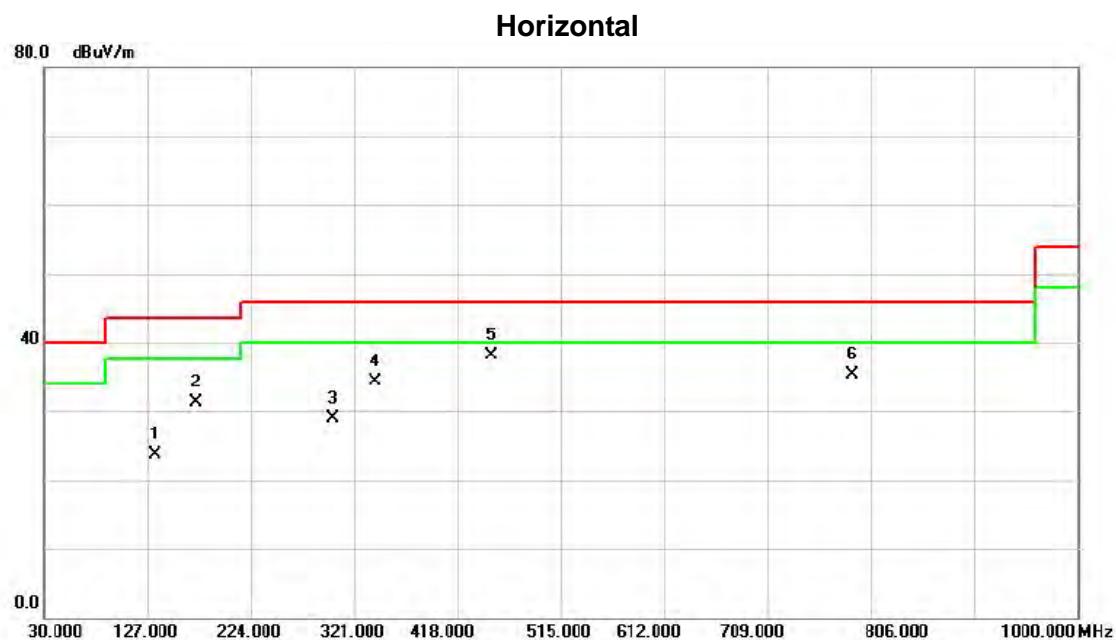
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX B MODE CHANNEL 01 - Internal antenna



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB | Margin | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-------------|--------|----------|---------|
| 1 | * | 41.6400 | 41.60 | -14.97 | 26.63 | 40.00 | -13.37 | QP | |
| 2 | | 132.8200 | 43.30 | -13.77 | 29.53 | 43.50 | -13.97 | QP | |
| 3 | | 450.0100 | 41.50 | -9.35 | 32.15 | 46.00 | -13.85 | QP | |
| 4 | | 675.0500 | 30.10 | -5.95 | 24.15 | 46.00 | -21.85 | QP | |
| 5 | | 800.1800 | 29.80 | -3.97 | 25.83 | 46.00 | -20.17 | QP | |
| 6 | | 951.5000 | 25.70 | -1.97 | 23.73 | 46.00 | -22.27 | QP | |

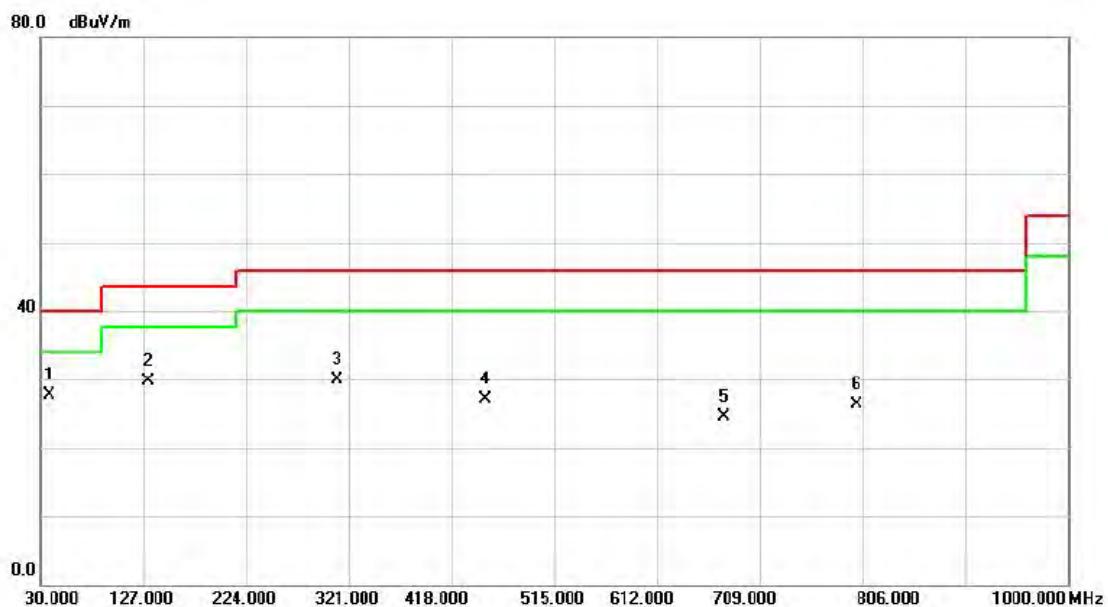
Test Mode: TX B MODE CHANNEL 01 - Internal antenna



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | | MHz | dBuV | dB | dBuV/m | dB | | |
| 1 | | 133.7900 | 37.50 | -13.79 | 23.71 | 43.50 | -19.79 | QP | |
| 2 | | 172.5900 | 44.10 | -12.85 | 31.25 | 43.50 | -12.25 | QP | |
| 3 | | 300.6300 | 39.70 | -10.80 | 28.90 | 46.00 | -17.10 | QP | |
| 4 | | 341.3700 | 45.30 | -10.92 | 34.38 | 46.00 | -11.62 | QP | |
| 5 | * | 450.0100 | 47.50 | -9.35 | 38.15 | 46.00 | -7.85 | QP | |
| 6 | | 788.5400 | 39.70 | -4.32 | 35.38 | 46.00 | -10.62 | QP | |

Test Mode: TX B MODE CHANNEL 06- Internal antenna

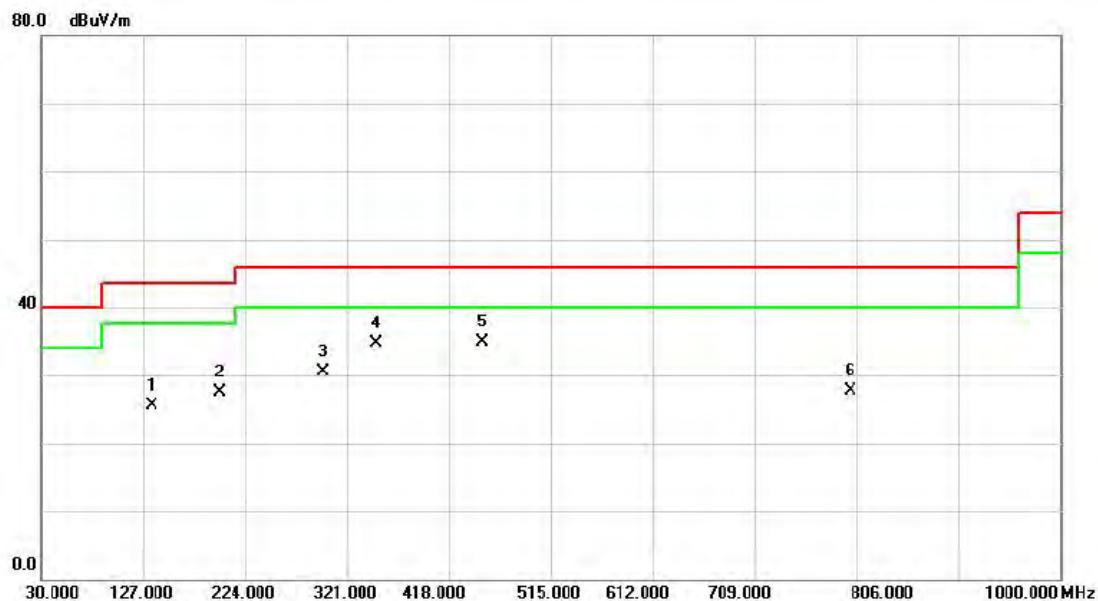
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dB | | | |
| 1 | * | 38.7300 | 42.60 | -14.96 | 27.64 | 40.00 | -12.36 | QP | |
| 2 | | 131.8500 | 43.40 | -13.74 | 29.66 | 43.50 | -13.84 | QP | |
| 3 | | 310.3300 | 40.70 | -10.83 | 29.87 | 46.00 | -16.13 | QP | |
| 4 | | 450.0100 | 36.50 | -9.35 | 27.15 | 46.00 | -18.85 | QP | |
| 5 | | 675.0500 | 30.40 | -5.95 | 24.45 | 46.00 | -21.55 | QP | |
| 6 | | 800.1800 | 30.20 | -3.97 | 26.23 | 46.00 | -19.77 | QP | |

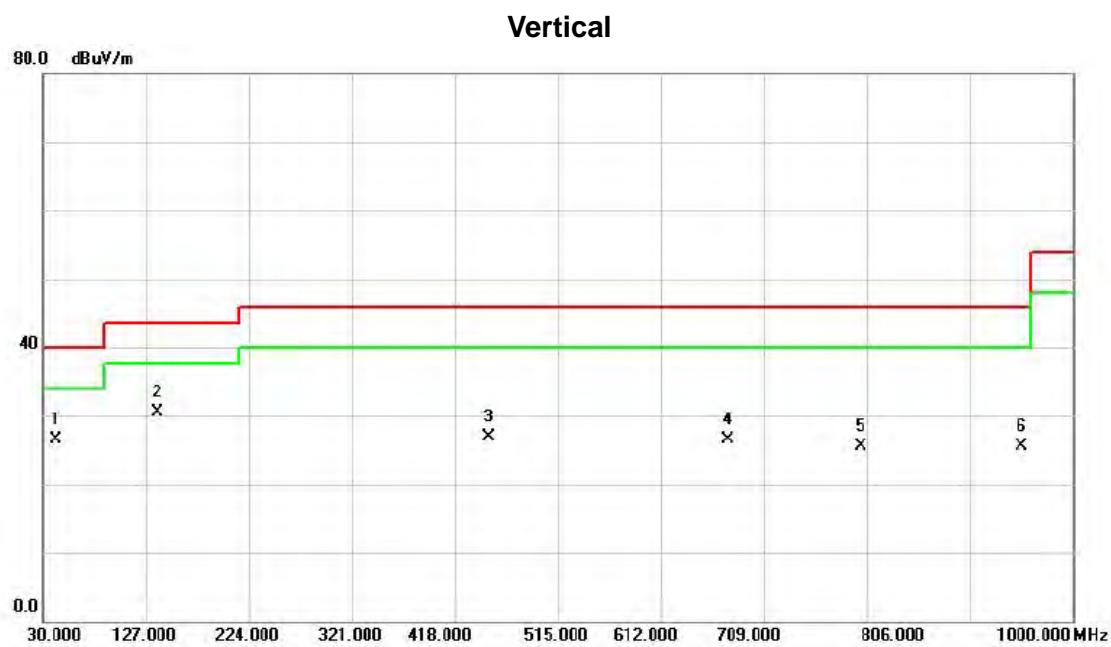
Test Mode: TX B MODE CHANNEL 06- Internal antenna

Horizontal



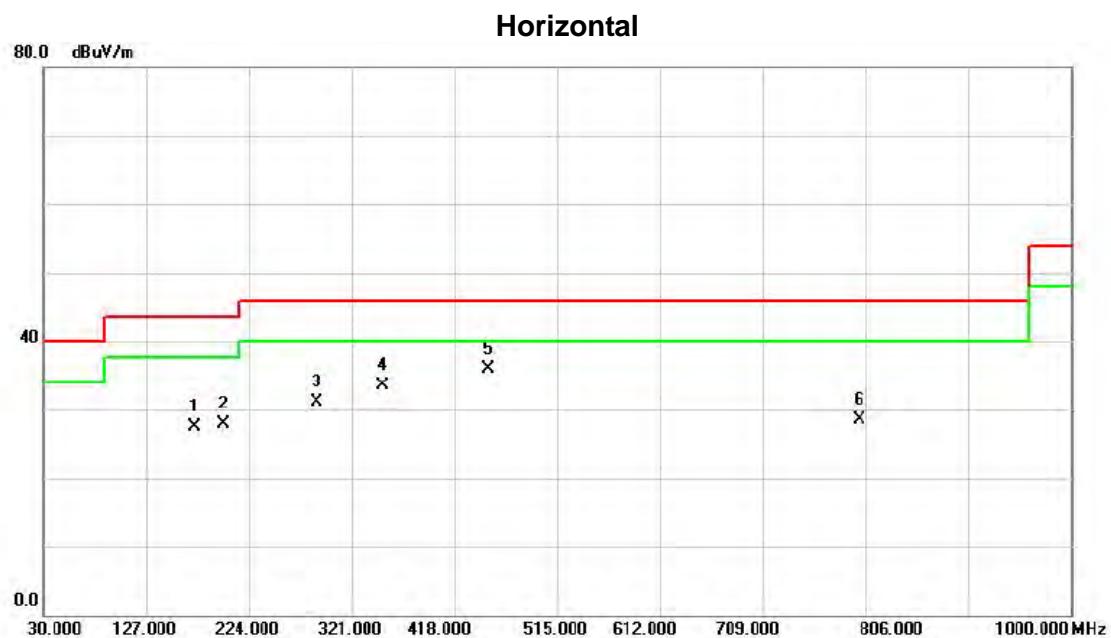
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB | Margin Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-------------|--------------------|---------|
| 1 | | 134.7600 | 39.30 | -13.83 | 25.47 | 43.50 | -18.03 | QP |
| 2 | | 199.7500 | 42.20 | -14.64 | 27.56 | 43.50 | -15.94 | QP |
| 3 | | 298.6900 | 41.50 | -10.99 | 30.51 | 46.00 | -15.49 | QP |
| 4 | | 348.1600 | 45.70 | -10.93 | 34.77 | 46.00 | -11.23 | QP |
| 5 | * | 450.0100 | 44.20 | -9.35 | 34.85 | 46.00 | -11.15 | QP |
| 6 | | 800.1800 | 31.70 | -3.97 | 27.73 | 46.00 | -18.27 | QP |

Test Mode: TX B MODE CHANNEL 11- Internal antenna



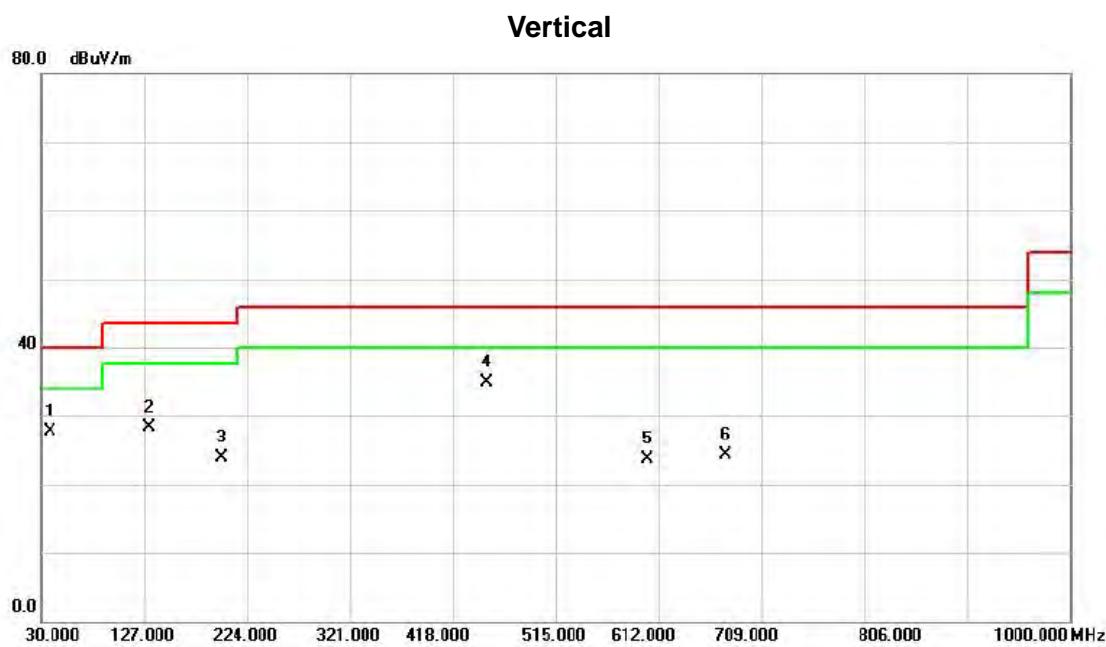
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | | 42.6100 | 41.60 | -15.07 | 26.53 | 40.00 | -13.47 | QP | |
| 2 | * | 137.6700 | 44.50 | -13.91 | 30.59 | 43.50 | -12.91 | QP | |
| 3 | | 450.0100 | 36.30 | -9.35 | 26.95 | 46.00 | -19.05 | QP | |
| 4 | | 675.0500 | 32.50 | -5.95 | 26.55 | 46.00 | -19.45 | QP | |
| 5 | | 800.1800 | 29.50 | -3.97 | 25.53 | 46.00 | -20.47 | QP | |
| 6 | | 951.5000 | 27.40 | -1.97 | 25.43 | 46.00 | -20.57 | QP | |

Test Mode: TX B MODE CHANNEL 11- Internal antenna



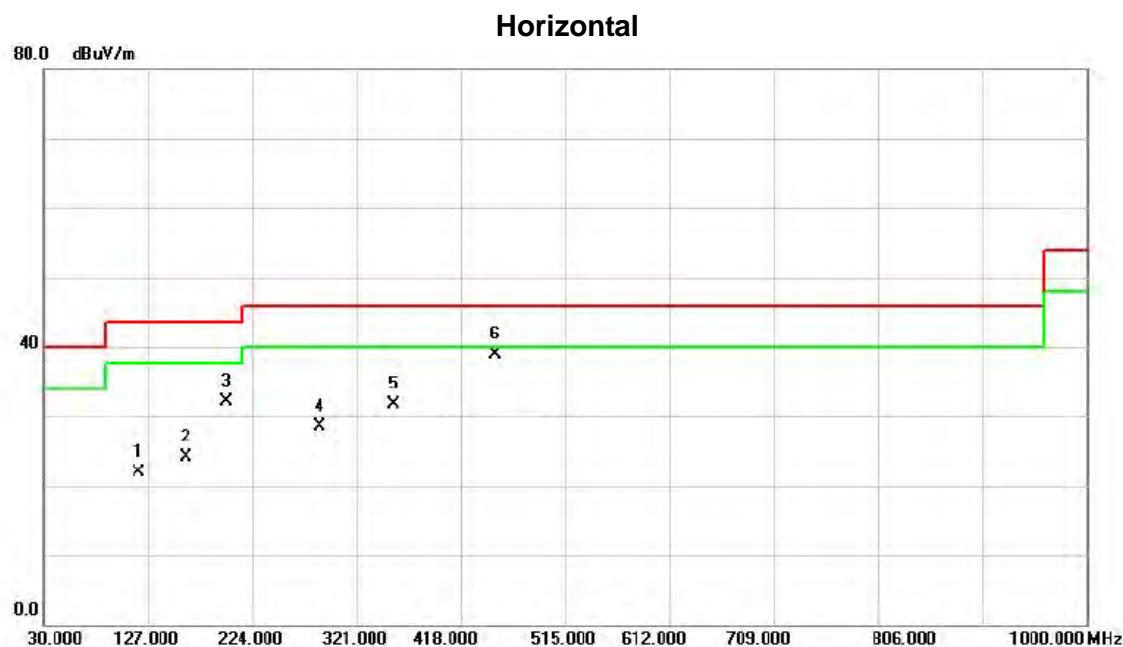
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Comment |
|-----|-----|----------|---------|---------|----------|-------|----------|---------|
| | | | Level | Factor | ment | | | |
| | | MHz | dBuV | dB | dBuV/m | dB | Detector | |
| 1 | | 172.5900 | 40.30 | -12.85 | 27.45 | 43.50 | -16.05 | QP |
| 2 | | 199.7500 | 42.50 | -14.64 | 27.86 | 43.50 | -15.64 | QP |
| 3 | | 288.0200 | 43.60 | -12.53 | 31.07 | 46.00 | -14.93 | QP |
| 4 | | 350.1000 | 44.50 | -10.94 | 33.56 | 46.00 | -12.44 | QP |
| 5 | * | 450.0100 | 45.30 | -9.35 | 35.95 | 46.00 | -10.05 | QP |
| 6 | | 800.1800 | 32.40 | -3.97 | 28.43 | 46.00 | -17.57 | QP |

Test Mode: TX B MODE CHANNEL 01 - External antenna



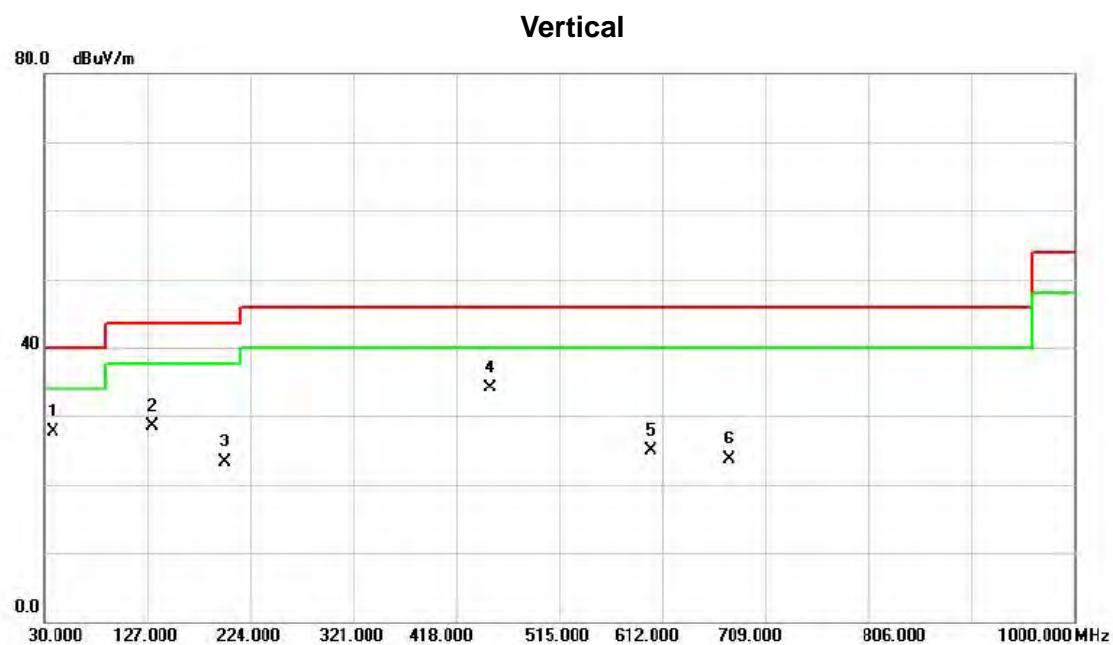
| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------------|--------------|----------------|-------|--------|----------|---------|
| | | | Level dBuV | Factor dB | ment dBuV/m | | | | |
| 1 | | 38.7300 | 42.70 | -14.96 | 27.74 | 40.00 | -12.26 | QP | |
| 2 | | 131.8500 | 42.10 | -13.74 | 28.36 | 43.50 | -15.14 | QP | |
| 3 | | 199.7500 | 38.60 | -14.64 | 23.96 | 43.50 | -19.54 | QP | |
| 4 | * | 450.0100 | 44.30 | -9.35 | 34.95 | 46.00 | -11.05 | QP | |
| 5 | | 600.3600 | 30.50 | -6.75 | 23.75 | 46.00 | -22.25 | QP | |
| 6 | | 675.0500 | 30.20 | -5.95 | 24.25 | 46.00 | -21.75 | QP | |

Test Mode: TX B MODE CHANNEL 01 - External antenna



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | | 118.2700 | 36.20 | -14.39 | 21.81 | 43.50 | 43.50 | -21.69 | QP |
| 2 | | 162.8900 | 37.50 | -13.48 | 24.02 | 43.50 | 43.50 | -19.48 | QP |
| 3 | | 199.7500 | 46.70 | -14.64 | 32.06 | 43.50 | 43.50 | -11.44 | QP |
| 4 | | 286.0800 | 41.20 | -12.75 | 28.45 | 46.00 | 46.00 | -17.55 | QP |
| 5 | | 354.9500 | 42.60 | -10.92 | 31.68 | 46.00 | 46.00 | -14.32 | QP |
| 6 | * | 450.0100 | 48.20 | -9.35 | 38.85 | 46.00 | 46.00 | -7.15 | QP |

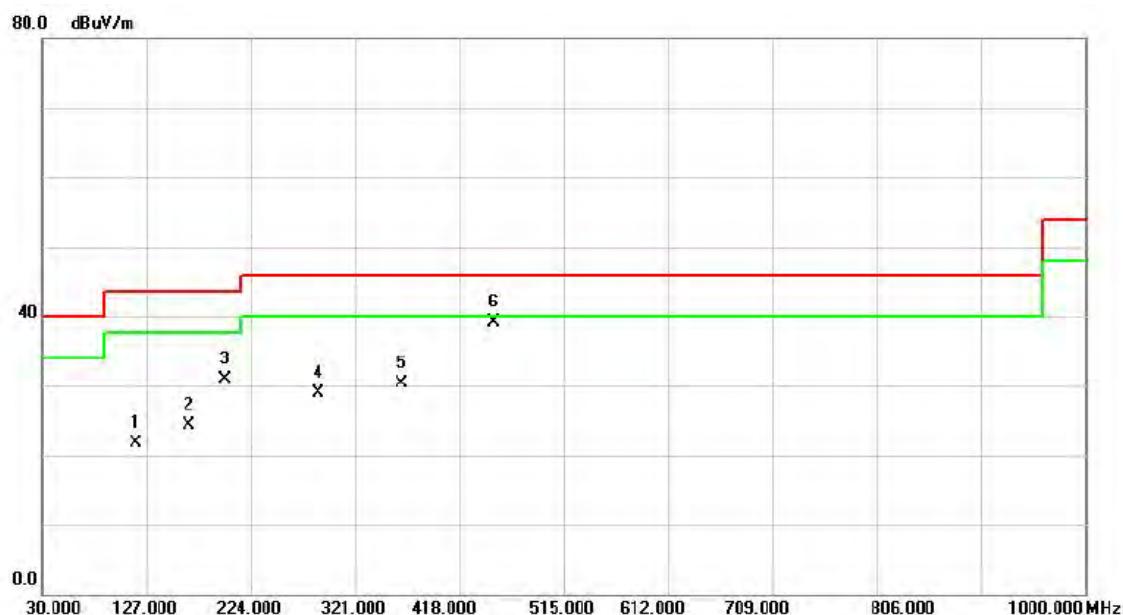
Test Mode: TX B MODE CHANNEL 06- External antenna



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 38.7300 | 42.70 | -14.96 | 27.74 | 40.00 | -12.26 | QP | |
| 2 | | 131.8500 | 42.30 | -13.74 | 28.56 | 43.50 | -14.94 | QP | |
| 3 | | 199.7500 | 37.90 | -14.64 | 23.26 | 43.50 | -20.24 | QP | |
| 4 | * | 450.0100 | 43.50 | -9.35 | 34.15 | 46.00 | -11.85 | QP | |
| 5 | | 600.3600 | 31.60 | -6.75 | 24.85 | 46.00 | -21.15 | QP | |
| 6 | | 675.0500 | 29.70 | -5.95 | 23.75 | 46.00 | -22.25 | QP | |

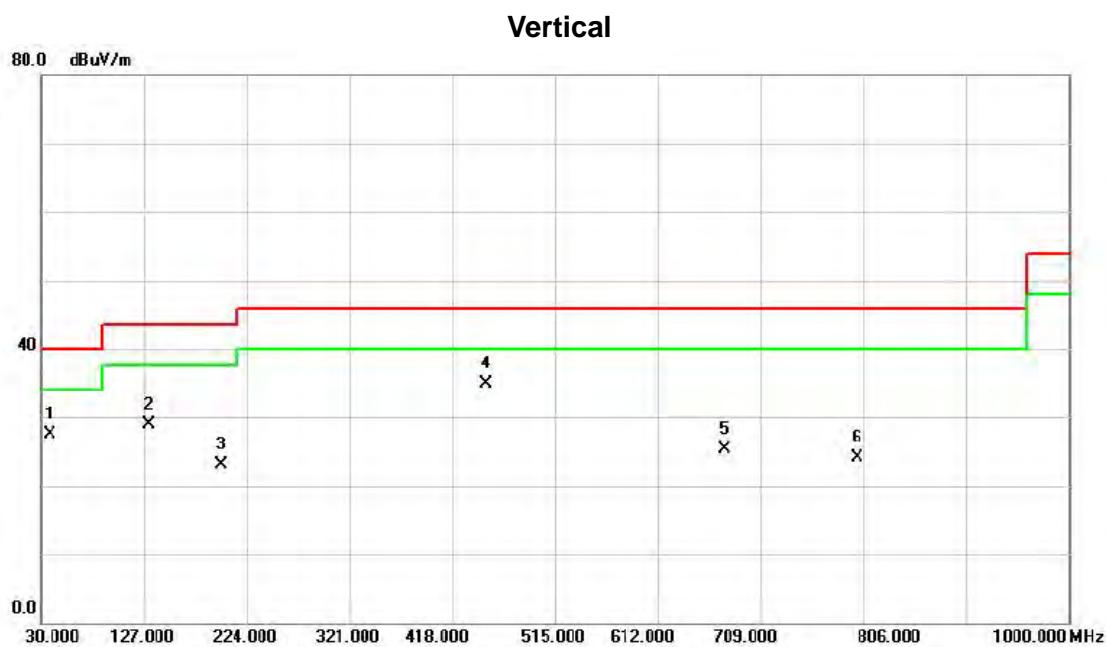
Test Mode: TX B MODE CHANNEL 06- External antenna

Horizontal



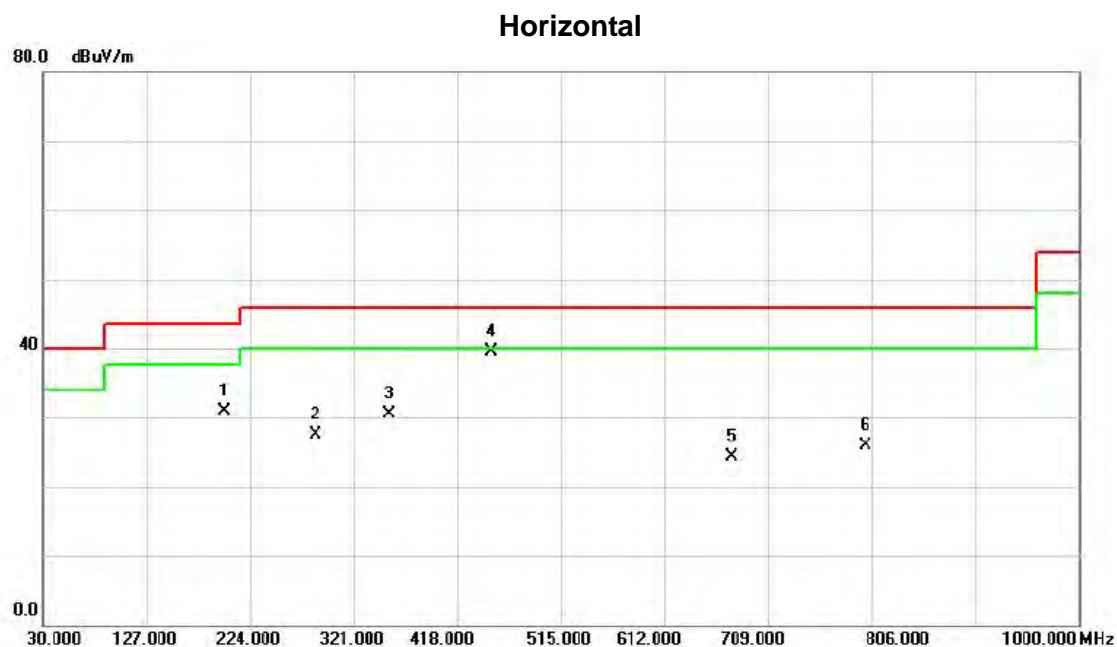
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 117.3000 | 36.20 | -14.48 | 21.72 | 43.50 | -21.78 | QP | |
| 2 | | 166.7700 | 37.50 | -13.15 | 24.35 | 43.50 | -19.15 | QP | |
| 3 | | 199.7500 | 45.60 | -14.64 | 30.96 | 43.50 | -12.54 | QP | |
| 4 | | 286.0800 | 41.70 | -12.75 | 28.95 | 46.00 | -17.05 | QP | |
| 5 | | 364.6500 | 41.20 | -10.90 | 30.30 | 46.00 | -15.70 | QP | |
| 6 | * | 450.0100 | 48.40 | -9.35 | 39.05 | 46.00 | -6.95 | QP | |

Test Mode: TX B MODE CHANNEL 11- External antenna



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | |
| 1 | | 38.7300 | 42.50 | -14.96 | 27.54 | 40.00 | -12.46 | QP | |
| 2 | | 130.8800 | 42.70 | -13.70 | 29.00 | 43.50 | -14.50 | QP | |
| 3 | | 199.7500 | 37.80 | -14.64 | 23.16 | 43.50 | -20.34 | QP | |
| 4 | * | 450.0100 | 44.30 | -9.35 | 34.95 | 46.00 | -11.05 | QP | |
| 5 | | 675.0500 | 31.20 | -5.95 | 25.25 | 46.00 | -20.75 | QP | |
| 6 | | 800.1800 | 28.10 | -3.97 | 24.13 | 46.00 | -21.87 | QP | |

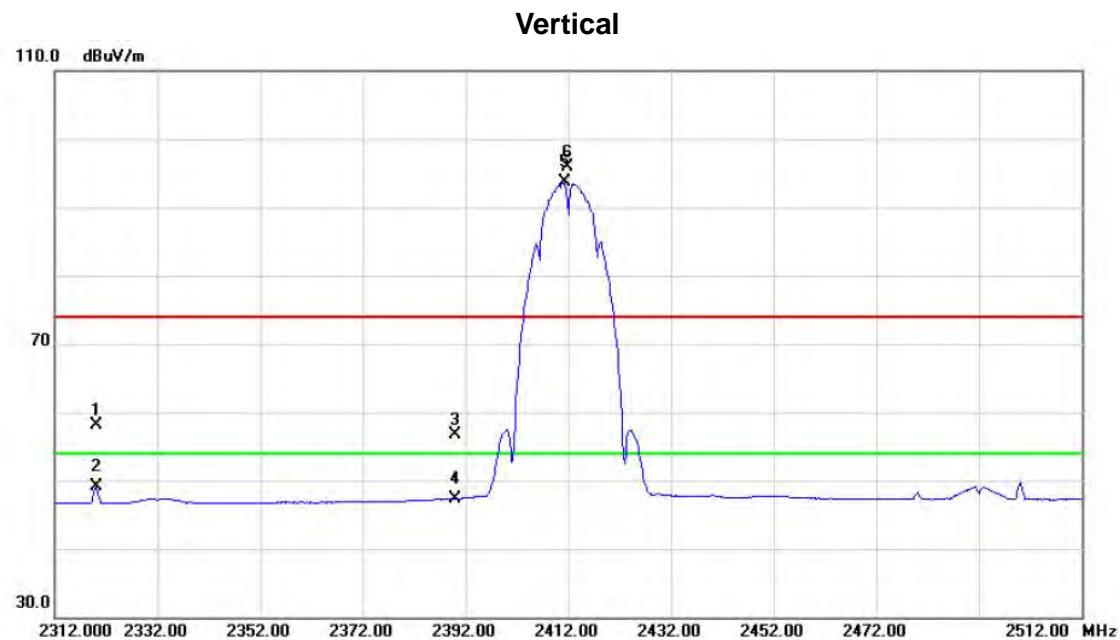
Test Mode: TX B MODE CHANNEL 11- External antenna



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 199.7500 | 45.60 | -14.64 | 30.96 | 43.50 | -12.54 | QP | |
| 2 | | 285.1100 | 40.30 | -12.86 | 27.44 | 46.00 | -18.56 | QP | |
| 3 | | 353.9800 | 41.50 | -10.93 | 30.57 | 46.00 | -15.43 | QP | |
| 4 | * | 450.0100 | 48.90 | -9.35 | 39.55 | 46.00 | -6.45 | QP | |
| 5 | | 675.0500 | 30.20 | -5.95 | 24.25 | 46.00 | -21.75 | QP | |
| 6 | | 800.1800 | 29.80 | -3.97 | 25.83 | 46.00 | -20.17 | QP | |

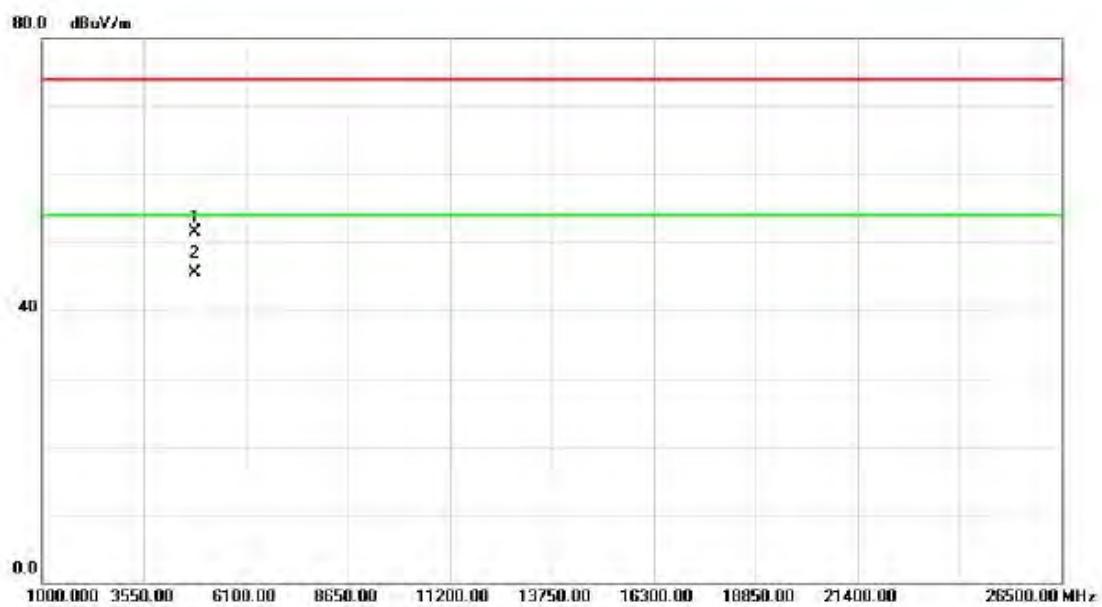
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2412MHz- Internal antenna |



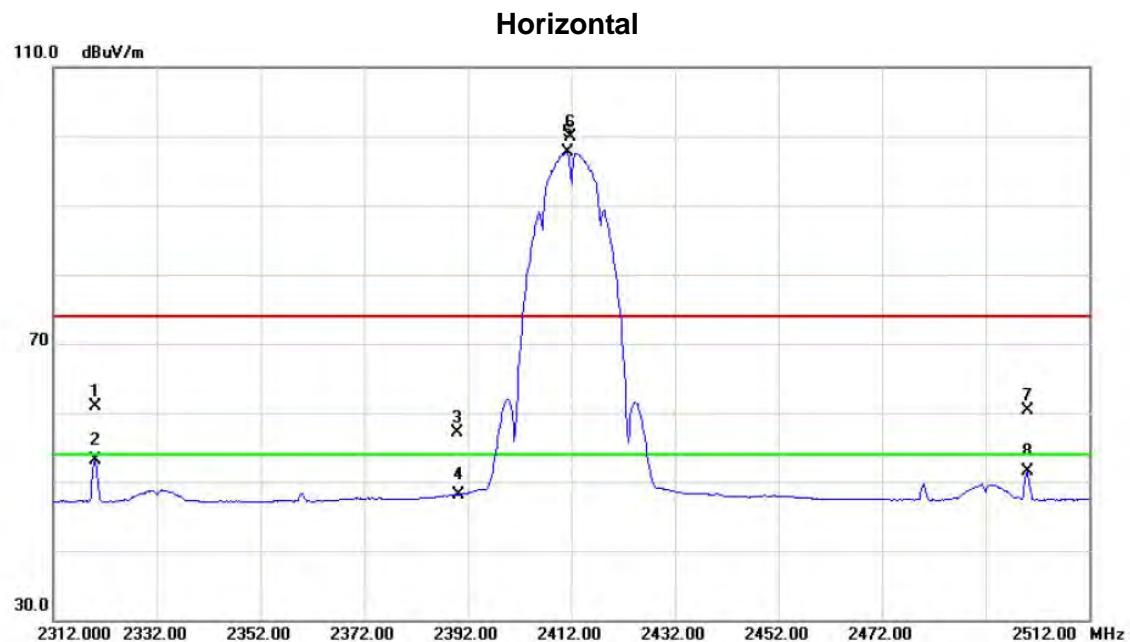
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | |
|-----|-----|----------|---------------|----------------|------------------|--------|--------|------------------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector Comment |
| 1 | | 2320.000 | 25.50 | 32.59 | 58.09 | 74.00 | -15.91 | peak |
| 2 | | 2320.000 | 16.44 | 32.59 | 49.03 | 54.00 | -4.97 | AVG |
| 3 | | 2390.000 | 24.02 | 32.68 | 56.70 | 74.00 | -17.30 | peak |
| 4 | | 2390.000 | 14.71 | 32.68 | 47.39 | 54.00 | -6.61 | AVG |
| 5 | * | 2411.200 | 60.97 | 32.71 | 93.68 | 54.00 | 39.68 | AVG No Limit |
| 6 | X | 2411.800 | 63.19 | 32.71 | 95.90 | 74.00 | 21.90 | peak No Limit |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2412MHz- Internal antenna |

Vertical

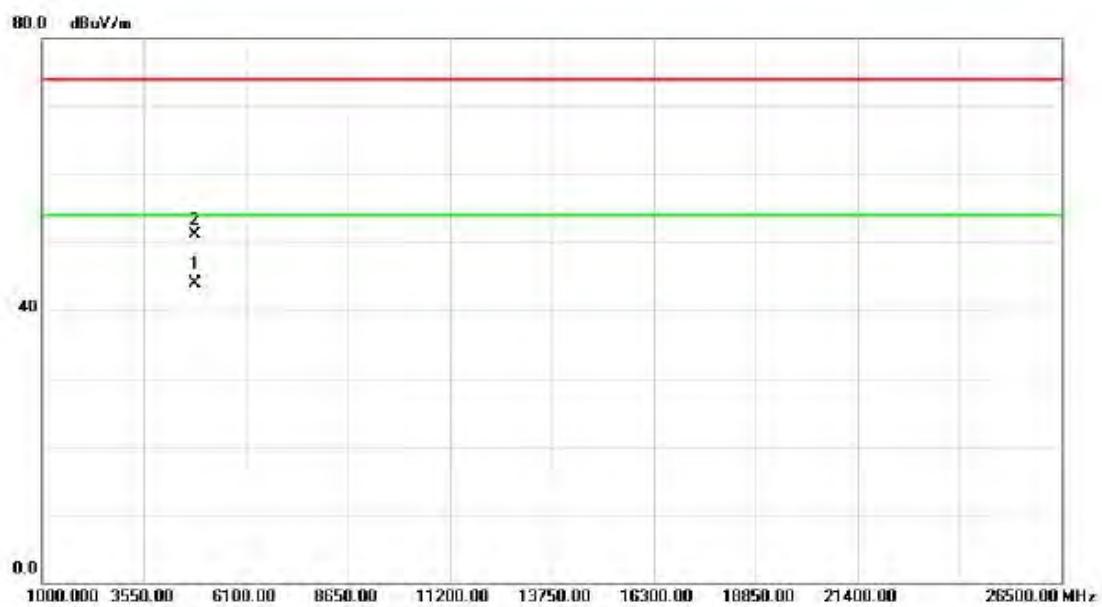
| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4823.915 | 45.71 | 5.87 | 51.58 | 74.00 | -22.42 | peak | |
| 2 | * | 4824.005 | 39.57 | 5.87 | 45.44 | 54.00 | -8.56 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2412MHz- Internal antenna |



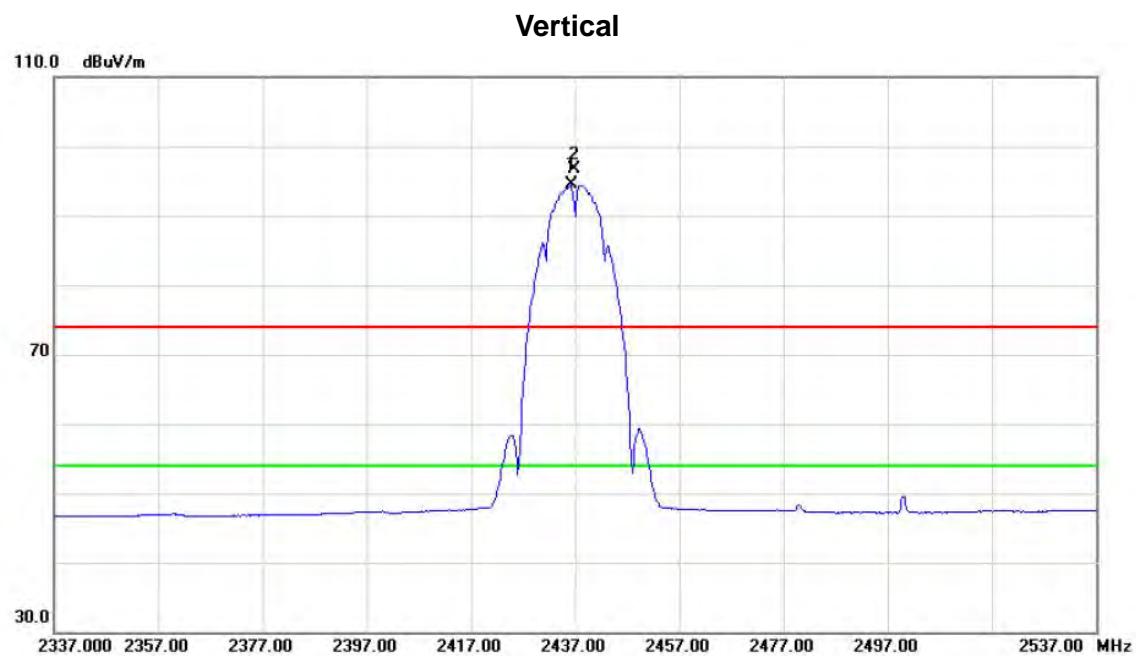
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|
| | | | Level | Factor | ment | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 2320.000 | 28.31 | 32.59 | 60.90 | 74.00 | -13.10 | peak |
| 2 | | 2320.000 | 20.60 | 32.59 | 53.19 | 54.00 | -0.81 | AVG |
| 3 | | 2390.000 | 24.40 | 32.68 | 57.08 | 74.00 | -16.92 | peak |
| 4 | | 2390.000 | 15.50 | 32.68 | 48.18 | 54.00 | -5.82 | AVG |
| 5 | * | 2411.200 | 65.06 | 32.71 | 97.77 | 54.00 | 43.77 | AVG |
| 6 | X | 2411.800 | 67.23 | 32.71 | 99.94 | 74.00 | 25.94 | peak |
| 7 | | 2500.000 | 27.51 | 32.83 | 60.34 | 74.00 | -13.66 | peak |
| 8 | | 2500.000 | 18.70 | 32.83 | 51.53 | 54.00 | -2.47 | AVG |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2412MHz- Internal antenna |

Horizontal

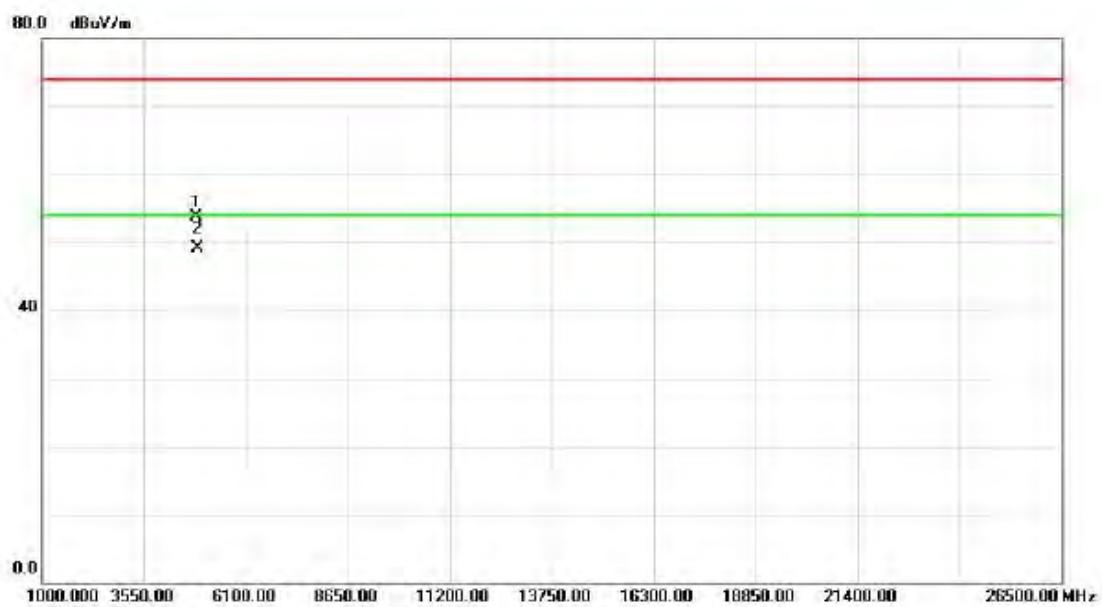
| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | * | 4824.015 | 38.03 | 5.87 | 43.90 | 54.00 | -10.10 | AVG | |
| 2 | | 4824.130 | 45.30 | 5.87 | 51.17 | 74.00 | -22.83 | peak | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2437MHz- Internal antenna |



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 2436.200 | 61.70 | 32.74 | 94.44 | 54.00 | 40.44 | AVG | No Limit |
| 2 | X | 2436.800 | 64.02 | 32.74 | 96.76 | 74.00 | 22.76 | peak | No Limit |

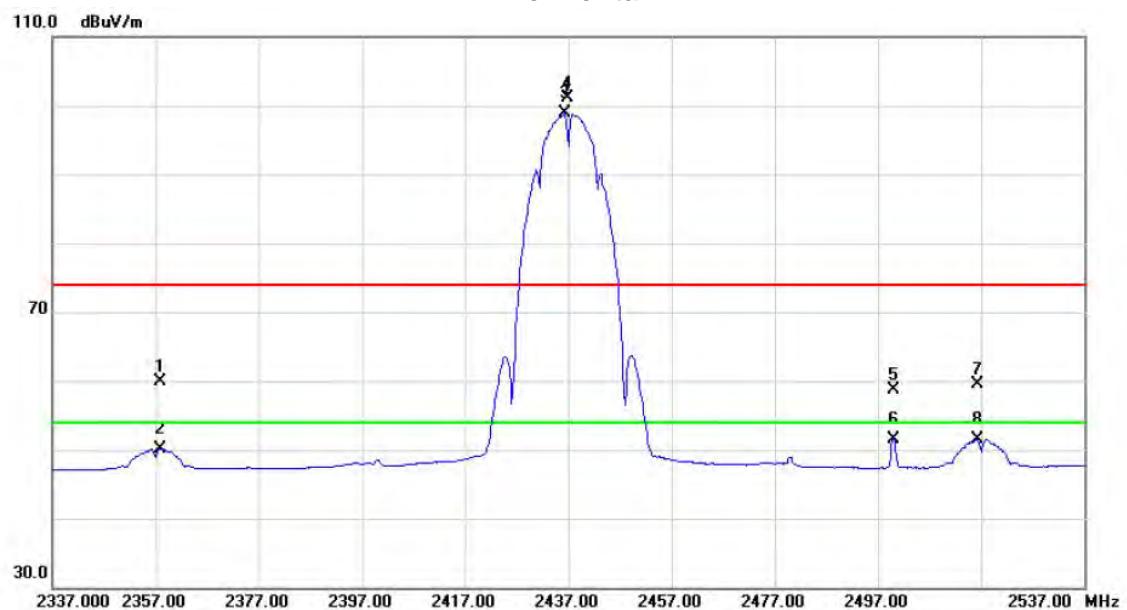
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2437MHz- Internal antenna |

Vertical

| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4873.960 | 47.67 | 6.01 | 53.68 | 74.00 | -20.32 | peak | |
| 2 | * | 4874.030 | 43.06 | 6.01 | 49.07 | 54.00 | -4.93 | AVG | |

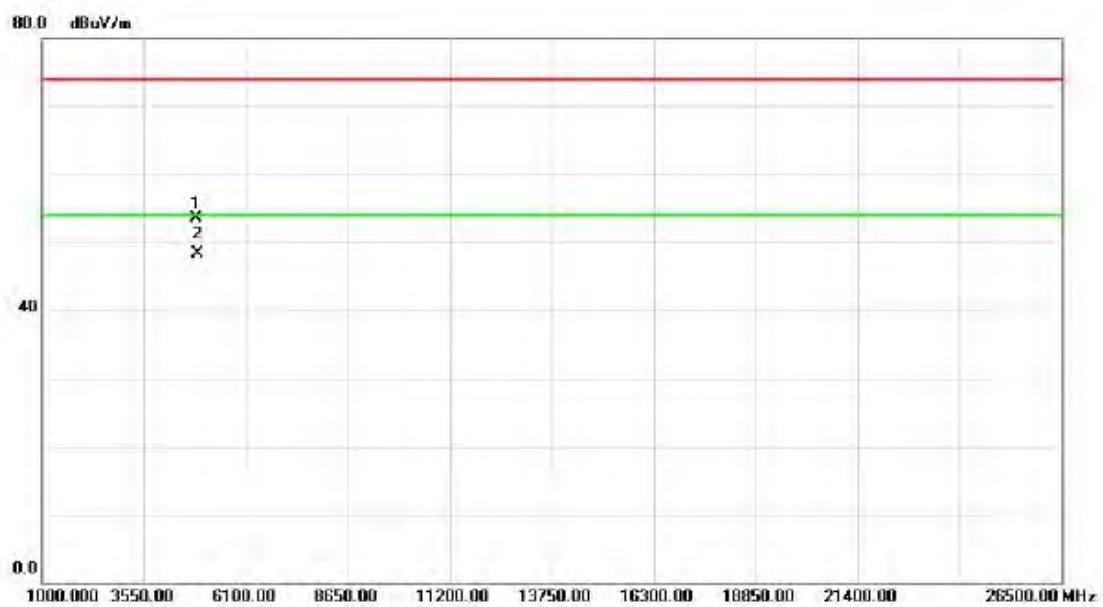
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2437MHz- Internal antenna |

Horizontal



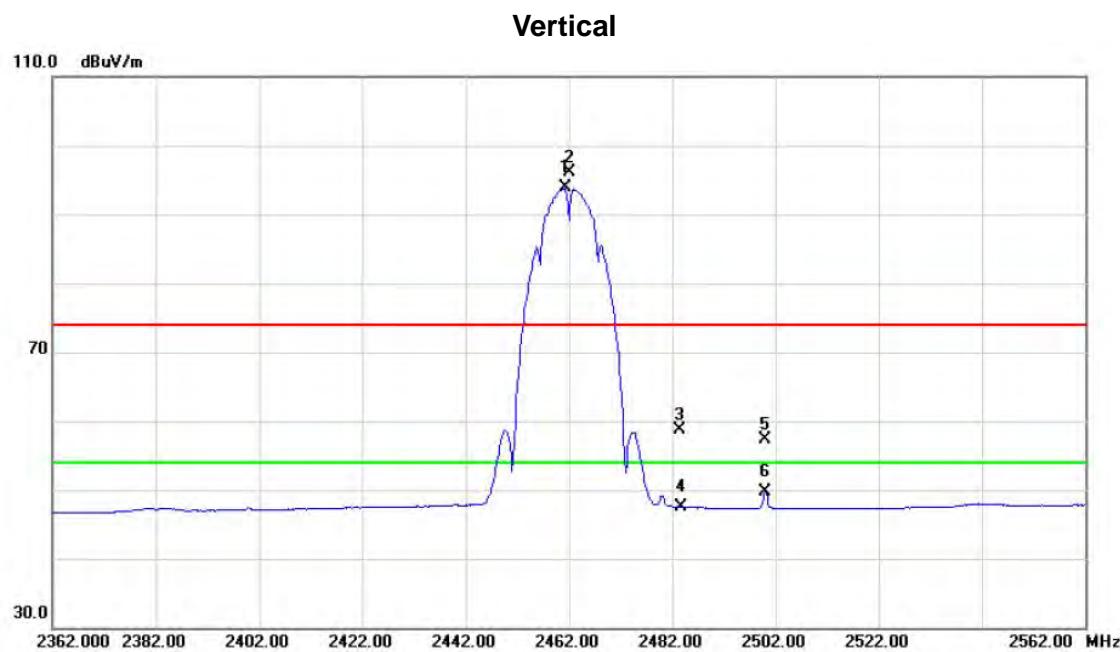
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | |
|-----|-----|----------|---------------|----------------|------------------|-------|----------|---------------|
| | | MHz | dBuV | dB | dBuV/m | dB | Detector | Comment |
| 1 | | 2357.800 | 27.34 | 32.64 | 59.98 | 74.00 | -14.02 | peak |
| 2 | | 2357.800 | 17.53 | 32.64 | 50.17 | 54.00 | -3.83 | AVG |
| 3 | * | 2436.200 | 66.13 | 32.74 | 98.87 | 54.00 | 44.87 | AVG No Limit |
| 4 | X | 2436.800 | 68.30 | 32.74 | 101.04 | 74.00 | 27.04 | peak No Limit |
| 5 | | 2500.000 | 25.94 | 32.83 | 58.77 | 74.00 | -15.23 | peak |
| 6 | | 2500.000 | 18.74 | 32.83 | 51.57 | 54.00 | -2.43 | AVG |
| 7 | | 2516.200 | 26.72 | 32.86 | 59.58 | 74.00 | -14.42 | peak |
| 8 | | 2516.200 | 18.63 | 32.86 | 51.49 | 54.00 | -2.51 | AVG |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2437MHz- Internal antenna |

Horizontal

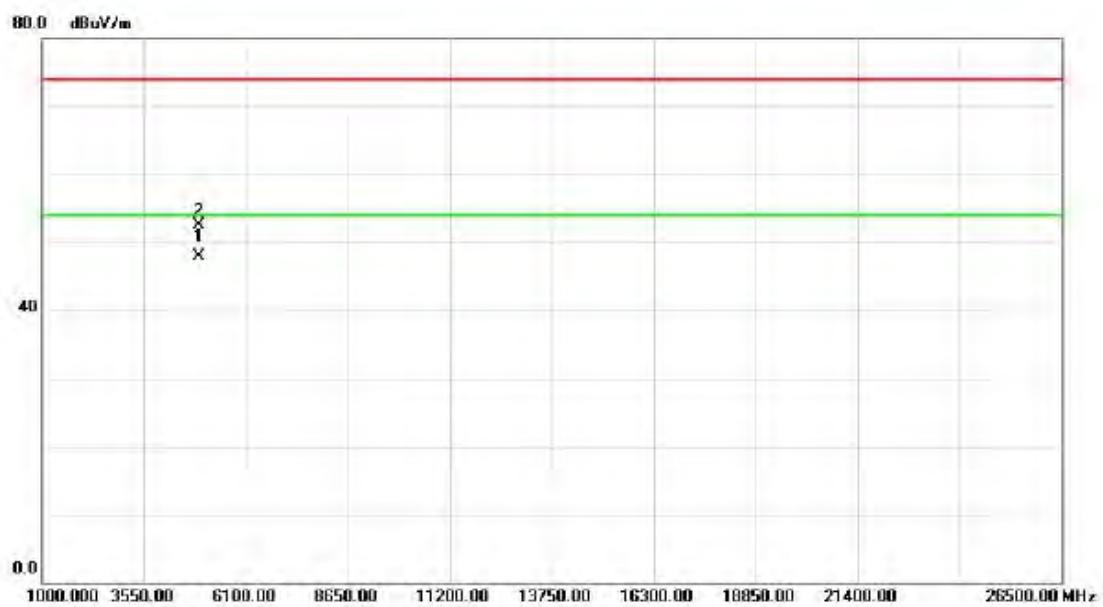
| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4873.915 | 47.40 | 6.01 | 53.41 | 74.00 | -20.59 | peak | |
| 2 | * | 4874.040 | 42.24 | 6.01 | 48.25 | 54.00 | -5.75 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2462MHz- Internal antenna |



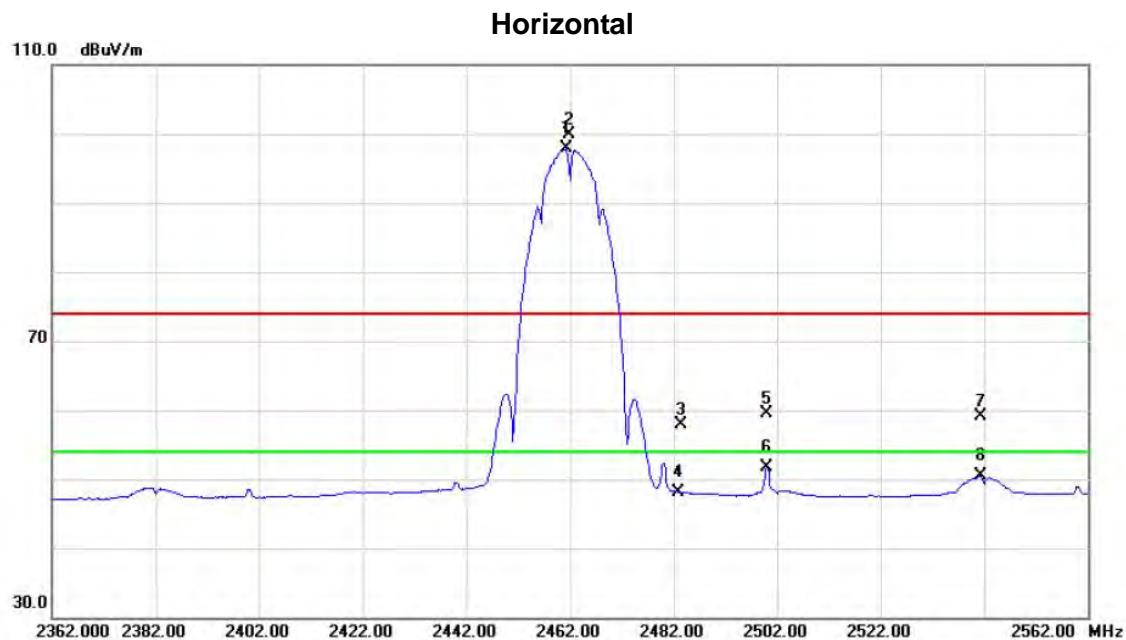
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 2461.200 | 61.10 | 32.78 | 93.88 | 54.00 | 39.88 | AVG | No Limit |
| 2 | X | 2462.000 | 63.32 | 32.78 | 96.10 | 74.00 | 22.10 | peak | No Limit |
| 3 | | 2483.500 | 25.92 | 32.81 | 58.73 | 74.00 | -15.27 | peak | |
| 4 | | 2483.500 | 14.72 | 32.81 | 47.53 | 54.00 | -6.47 | AVG | |
| 5 | | 2500.000 | 24.55 | 32.83 | 57.38 | 74.00 | -16.62 | peak | |
| 6 | | 2500.000 | 16.80 | 32.83 | 49.63 | 54.00 | -4.37 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2462MHz- Internal antenna |

Vertical

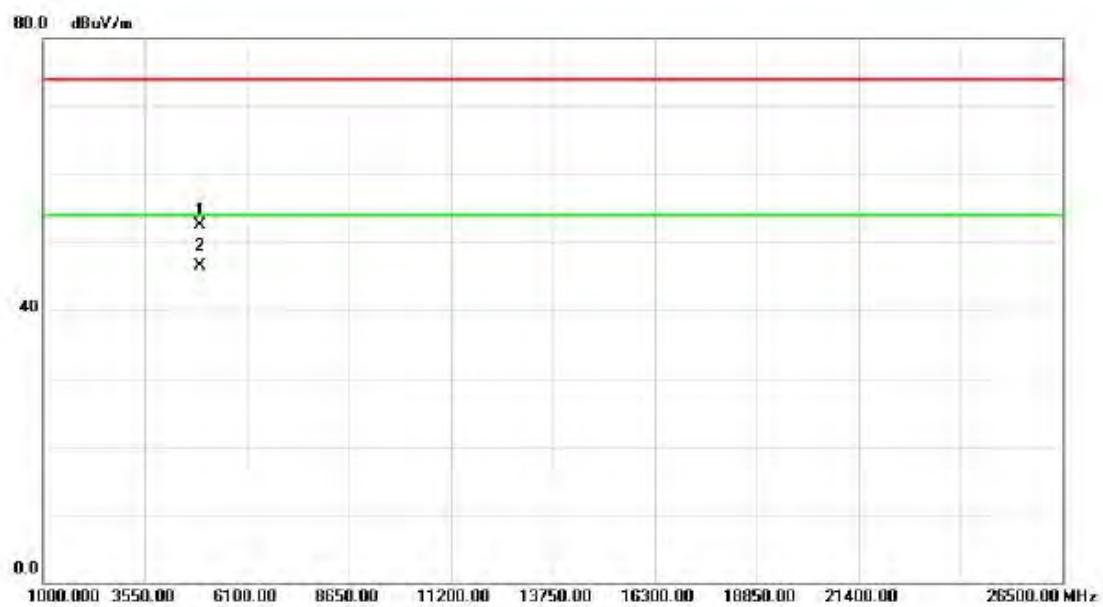
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4924.015 | 41.71 | 6.14 | 47.85 | 54.00 | -6.15 | AVG | |
| 2 | | 4924.055 | 46.43 | 6.14 | 52.57 | 74.00 | -21.43 | peak | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2462MHz- Internal antenna |



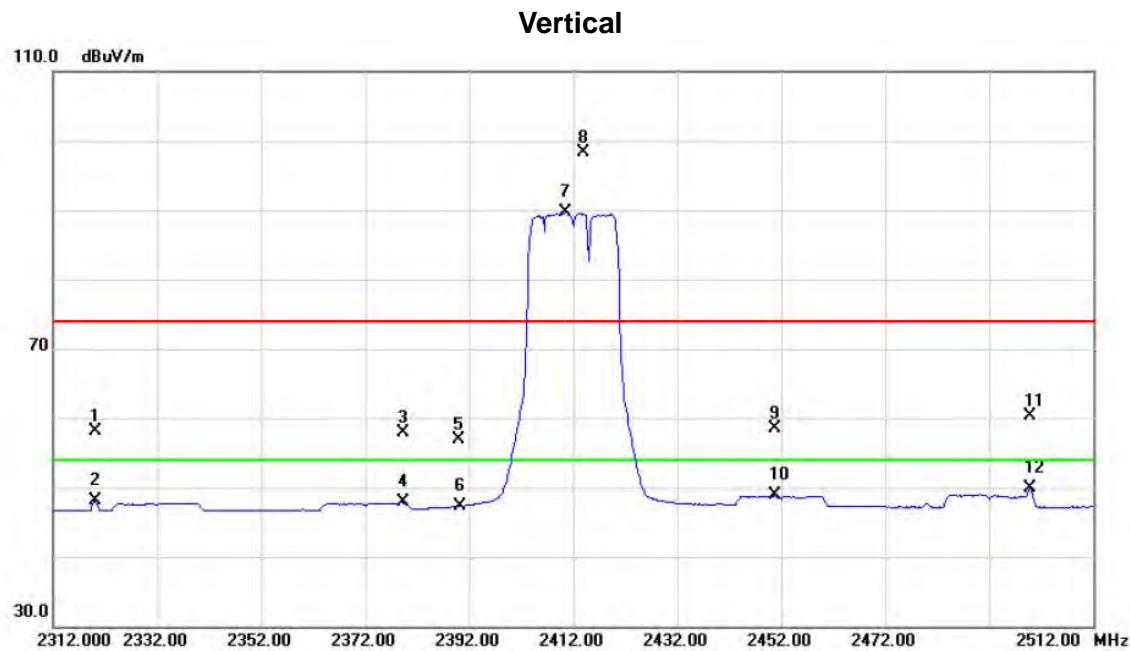
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|---------------|
| | | | Level | Factor | ment | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 2461.200 | 65.12 | 32.78 | 97.90 | 54.00 | 43.90 | AVG No Limit |
| 2 | X | 2461.800 | 67.17 | 32.78 | 99.95 | 74.00 | 25.95 | peak No Limit |
| 3 | | 2483.500 | 25.02 | 32.81 | 57.83 | 74.00 | -16.17 | peak |
| 4 | | 2483.500 | 15.31 | 32.81 | 48.12 | 54.00 | -5.88 | AVG |
| 5 | | 2500.000 | 26.77 | 32.83 | 59.60 | 74.00 | -14.40 | peak |
| 6 | | 2500.000 | 18.91 | 32.83 | 51.74 | 54.00 | -2.26 | AVG |
| 7 | | 2541.200 | 26.13 | 32.90 | 59.03 | 74.00 | -14.97 | peak |
| 8 | | 2541.200 | 17.61 | 32.90 | 50.51 | 54.00 | -3.49 | AVG |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX B MODE 2462MHz- Internal antenna |

Horizontal

| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4923.985 | 46.43 | 6.14 | 52.57 | 74.00 | -21.43 | peak | |
| 2 | * | 4924.030 | 40.37 | 6.14 | 46.51 | 54.00 | -7.49 | AVG | |

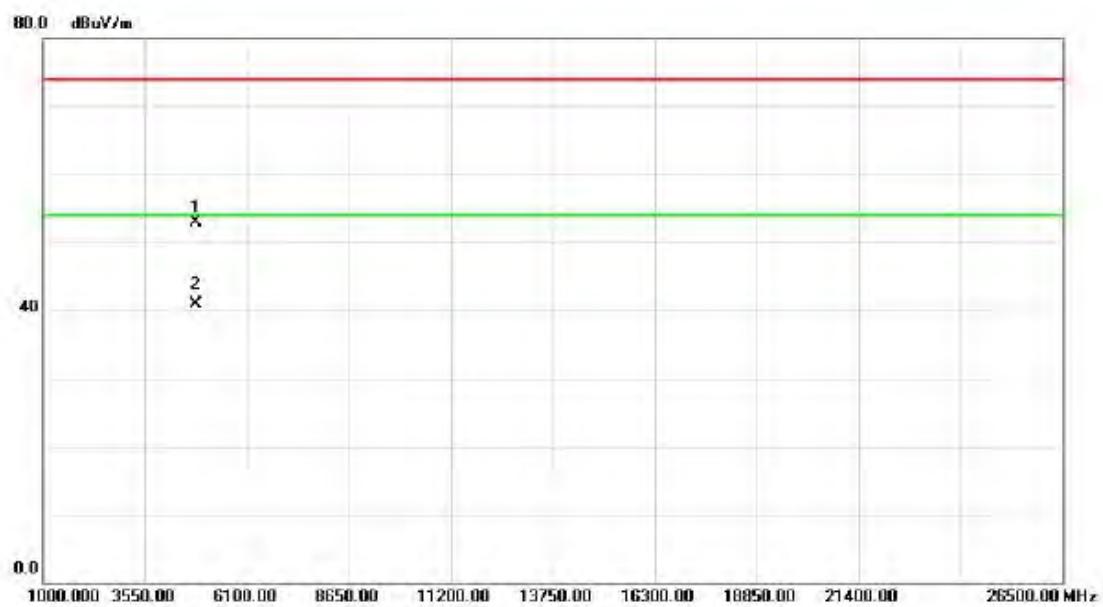
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2412MHz- Internal antenna |



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2320.000 | 25.47 | 32.59 | 58.06 | 74.00 | -15.94 | peak | |
| 2 | | 2320.000 | 15.57 | 32.59 | 48.16 | 54.00 | -5.84 | AVG | |
| 3 | | 2379.200 | 25.31 | 32.66 | 57.97 | 74.00 | -16.03 | peak | |
| 4 | | 2379.200 | 15.17 | 32.66 | 47.83 | 54.00 | -6.17 | AVG | |
| 5 | | 2390.000 | 24.31 | 32.68 | 56.99 | 74.00 | -17.01 | peak | |
| 6 | | 2390.000 | 14.65 | 32.68 | 47.33 | 54.00 | -6.67 | AVG | |
| 7 | * | 2410.600 | 57.02 | 32.71 | 89.73 | 54.00 | 35.73 | AVG | No Limit |
| 8 | X | 2414.000 | 65.62 | 32.71 | 98.33 | 74.00 | 24.33 | peak | No Limit |
| 9 | | 2450.800 | 25.77 | 32.76 | 58.53 | 74.00 | -15.47 | peak | |
| 10 | | 2450.800 | 16.06 | 32.76 | 48.82 | 54.00 | -5.18 | AVG | |
| 11 | | 2499.800 | 27.52 | 32.83 | 60.35 | 74.00 | -13.65 | peak | |
| 12 | | 2499.800 | 17.06 | 32.83 | 49.89 | 54.00 | -4.11 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2412MHz- Internal antenna |

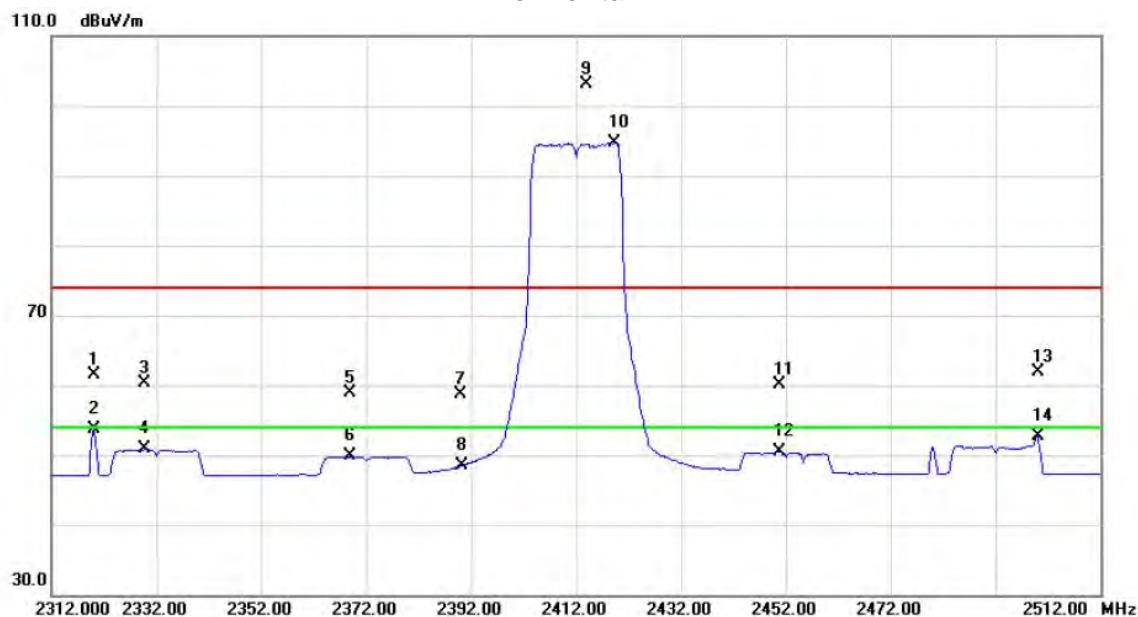
Vertical



| No. | Mk. | Freq. MHz | Reading Level | Correct Factor | Measure- ment | Limit | Margin | Detector | Comment |
|-----|-----|--------------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 4823.990 | 47.05 | 5.87 | 52.92 | 74.00 | -21.08 | peak | |
| 2 | * | 4824.040 | 35.11 | 5.87 | 40.98 | 54.00 | -13.02 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2412MHz- Internal antenna |

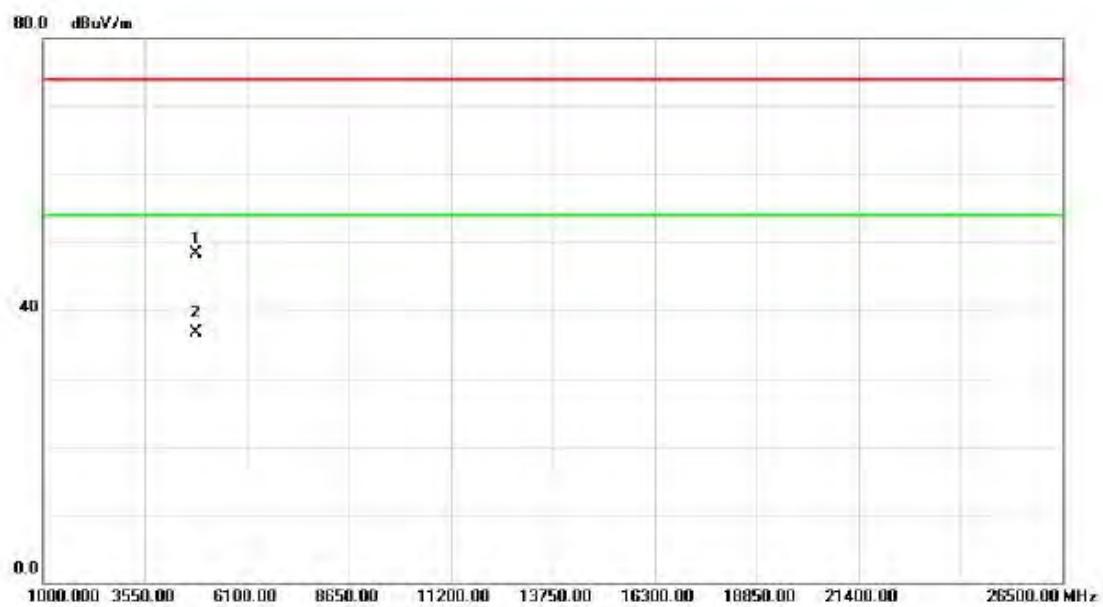
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2320.000 | 28.91 | 32.59 | 61.50 | 74.00 | -12.50 | peak | |
| 2 | | 2320.000 | 21.07 | 32.59 | 53.66 | 54.00 | -0.34 | AVG | |
| 3 | | 2329.600 | 27.69 | 32.59 | 60.28 | 74.00 | -13.72 | peak | |
| 4 | | 2329.600 | 18.25 | 32.59 | 50.84 | 54.00 | -3.16 | AVG | |
| 5 | | 2368.800 | 26.24 | 32.65 | 58.89 | 74.00 | -15.11 | peak | |
| 6 | | 2368.800 | 17.17 | 32.65 | 49.82 | 54.00 | -4.18 | AVG | |
| 7 | | 2390.000 | 25.93 | 32.68 | 58.61 | 74.00 | -15.39 | peak | |
| 8 | | 2390.000 | 15.79 | 32.68 | 48.47 | 54.00 | -5.53 | AVG | |
| 9 | X | 2414.000 | 70.38 | 32.71 | 103.09 | 74.00 | 29.09 | peak | No Limit |
| 10 | * | 2419.400 | 62.01 | 32.72 | 94.73 | 54.00 | 40.73 | AVG | No Limit |
| 11 | | 2450.800 | 27.27 | 32.76 | 60.03 | 74.00 | -13.97 | peak | |
| 12 | | 2450.800 | 17.79 | 32.76 | 50.55 | 54.00 | -3.45 | AVG | |
| 13 | | 2500.000 | 29.07 | 32.83 | 61.90 | 74.00 | -12.10 | peak | |
| 14 | | 2500.000 | 19.96 | 32.83 | 52.79 | 54.00 | -1.21 | AVG | |

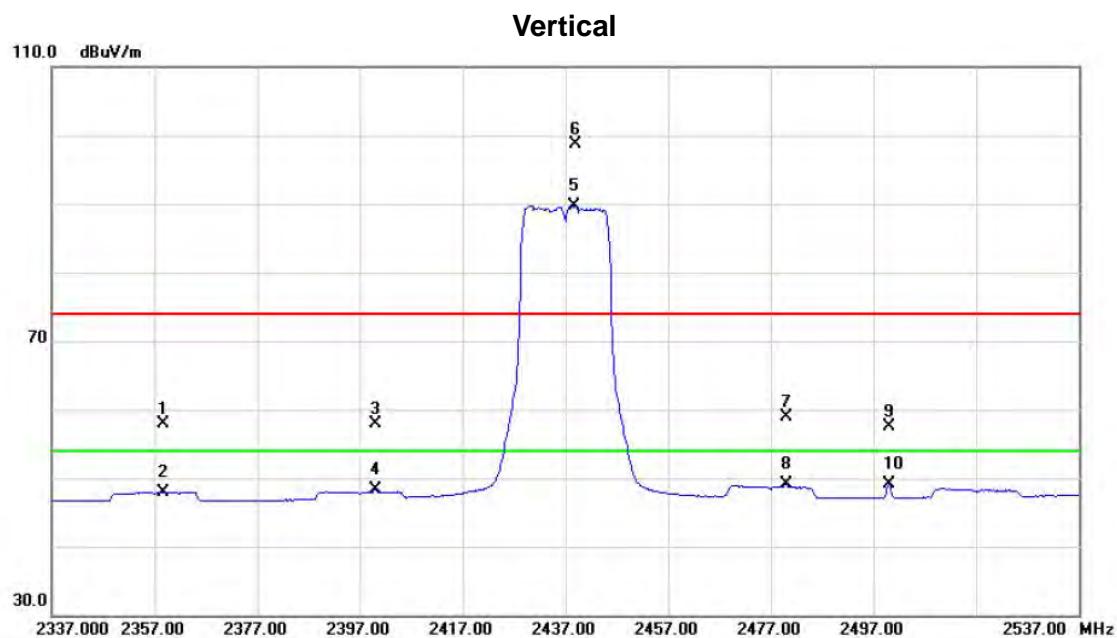
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2412MHz- Internal antenna |

Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | | MHz | dBuV | dB | dBuV/m | dB | Detector | Comment |
| 1 | | 4823.970 | 42.44 | 5.87 | 48.31 | 74.00 | -25.69 | peak | |
| 2 | * | 4824.060 | 30.78 | 5.87 | 36.65 | 54.00 | -17.35 | AVG | |

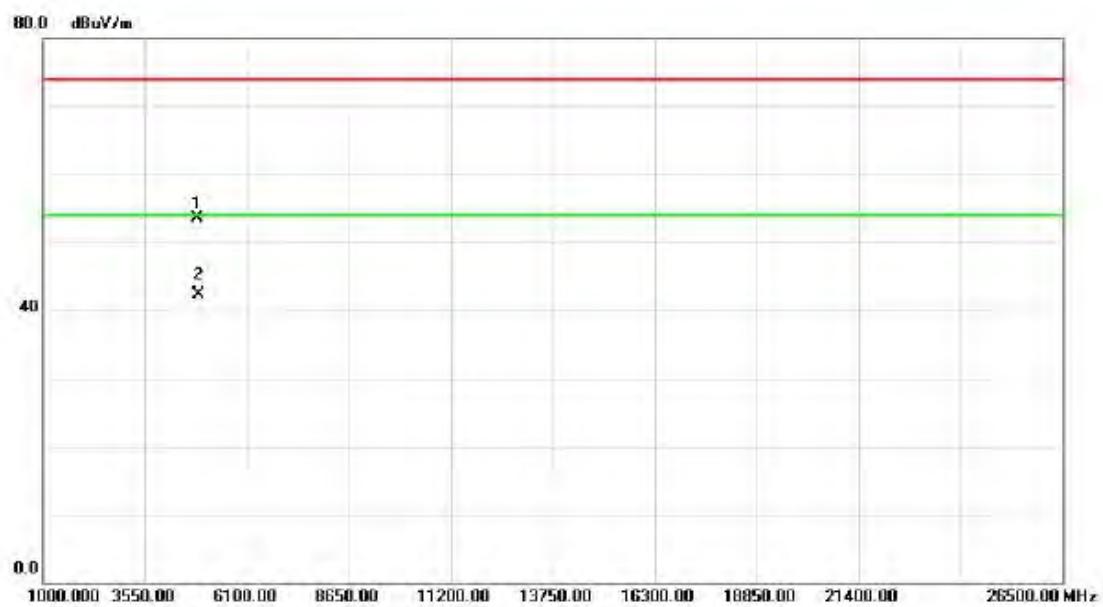
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2437MHz- Internal antenna |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure-ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|-----------|--------------------|-------------------|---------------------|--------------|-----------|----------|----------|
| 1 | | 2358.800 | 25.36 | 32.64 | 58.00 | 74.00 | -16.00 | peak | |
| 2 | | 2358.800 | 15.33 | 32.64 | 47.97 | 54.00 | -6.03 | AVG | |
| 3 | | 2400.000 | 25.13 | 32.69 | 57.82 | 74.00 | -16.18 | peak | |
| 4 | | 2400.000 | 15.57 | 32.69 | 48.26 | 54.00 | -5.74 | AVG | |
| 5 | * | 2438.800 | 57.03 | 32.74 | 89.77 | 54.00 | 35.77 | AVG | No Limit |
| 6 | X | 2439.000 | 65.90 | 32.74 | 98.64 | 74.00 | 24.64 | peak | No Limit |
| 7 | | 2480.000 | 26.10 | 32.80 | 58.90 | 74.00 | -15.10 | peak | |
| 8 | | 2480.000 | 16.28 | 32.80 | 49.08 | 54.00 | -4.92 | AVG | |
| 9 | | 2500.000 | 24.64 | 32.83 | 57.47 | 74.00 | -16.53 | peak | |
| 10 | | 2500.000 | 16.23 | 32.83 | 49.06 | 54.00 | -4.94 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2437MHz- Internal antenna |

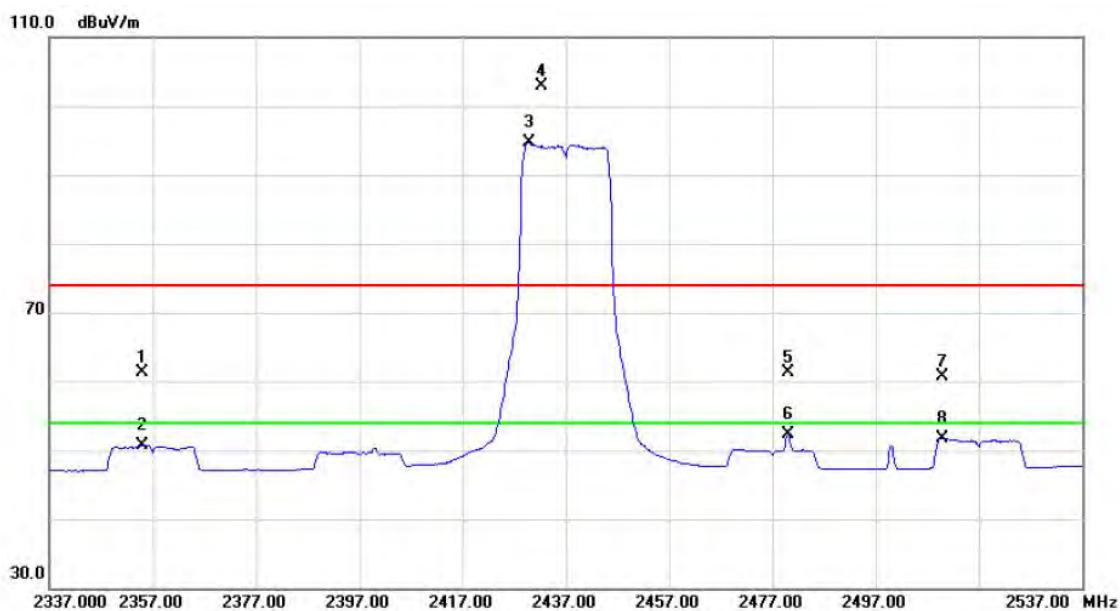
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 4874.000 | 47.54 | 6.01 | 53.55 | 74.00 | -20.45 | peak | |
| 2 | * | 4874.000 | 36.36 | 6.01 | 42.37 | 54.00 | -11.63 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2437MHz- Internal antenna |

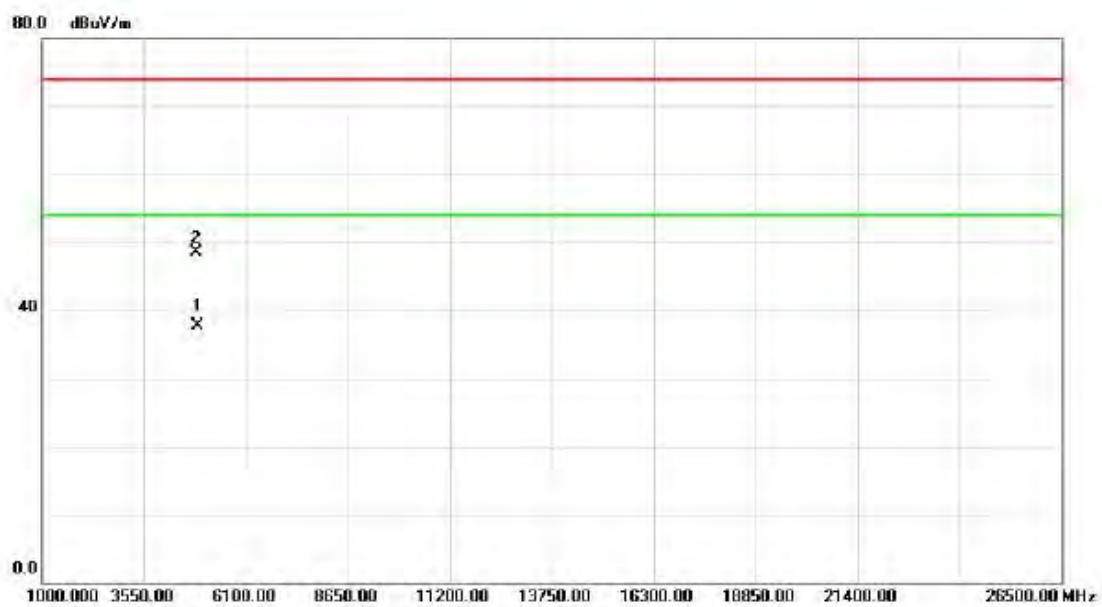
Horizontal



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | | | | |
|-----|-----|----------|---------------|----------------|------------------|-------|--------|------|----------|--------|----|----------|
| | | | | | | | dBuV | dB | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 2355.000 | 28.58 | 32.63 | 61.21 | 74.00 | -12.79 | peak | | | | |
| 2 | | 2355.000 | 18.10 | 32.63 | 50.73 | 54.00 | -3.27 | AVG | | | | |
| 3 | * | 2429.800 | 61.95 | 32.73 | 94.68 | 54.00 | 40.68 | AVG | No Limit | | | |
| 4 | X | 2432.200 | 70.13 | 32.74 | 102.87 | 74.00 | 28.87 | peak | No Limit | | | |
| 5 | | 2480.000 | 28.49 | 32.80 | 61.29 | 74.00 | -12.71 | peak | | | | |
| 6 | | 2480.000 | 19.59 | 32.80 | 52.39 | 54.00 | -1.61 | AVG | | | | |
| 7 | | 2509.800 | 27.84 | 32.85 | 60.69 | 74.00 | -13.31 | peak | | | | |
| 8 | | 2509.800 | 18.89 | 32.85 | 51.74 | 54.00 | -2.26 | AVG | | | | |

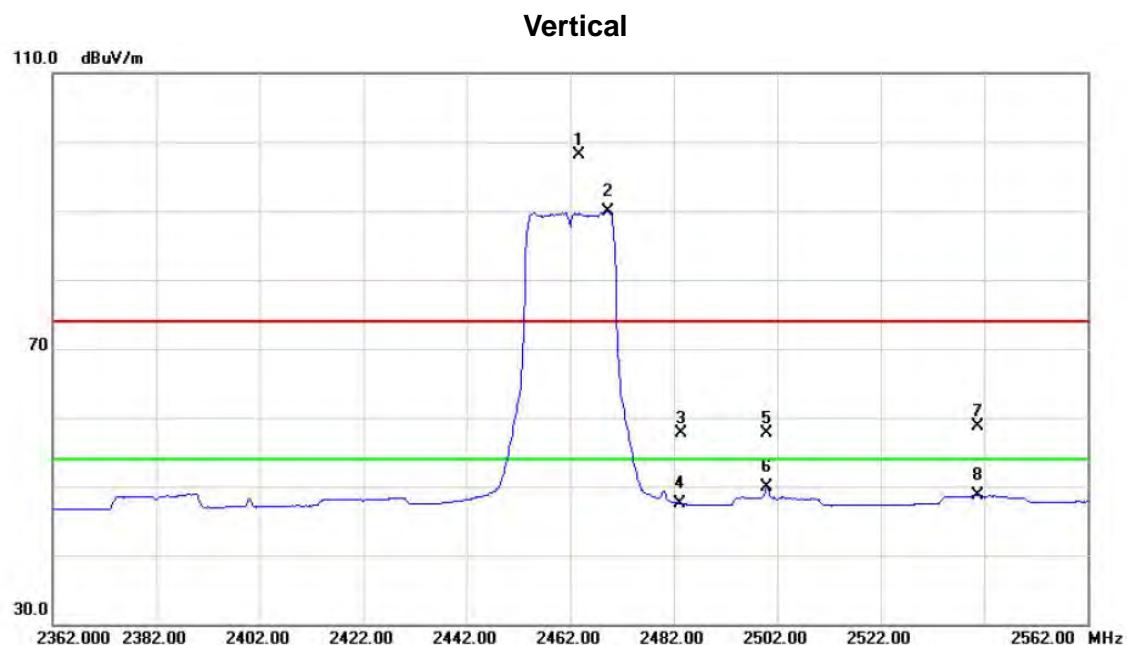
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2437MHz- Internal antenna |

Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4874.090 | 31.66 | 6.01 | 37.67 | 54.00 | -16.33 | AVG | |
| 2 | | 4874.140 | 42.55 | 6.01 | 48.56 | 74.00 | -25.44 | peak | |

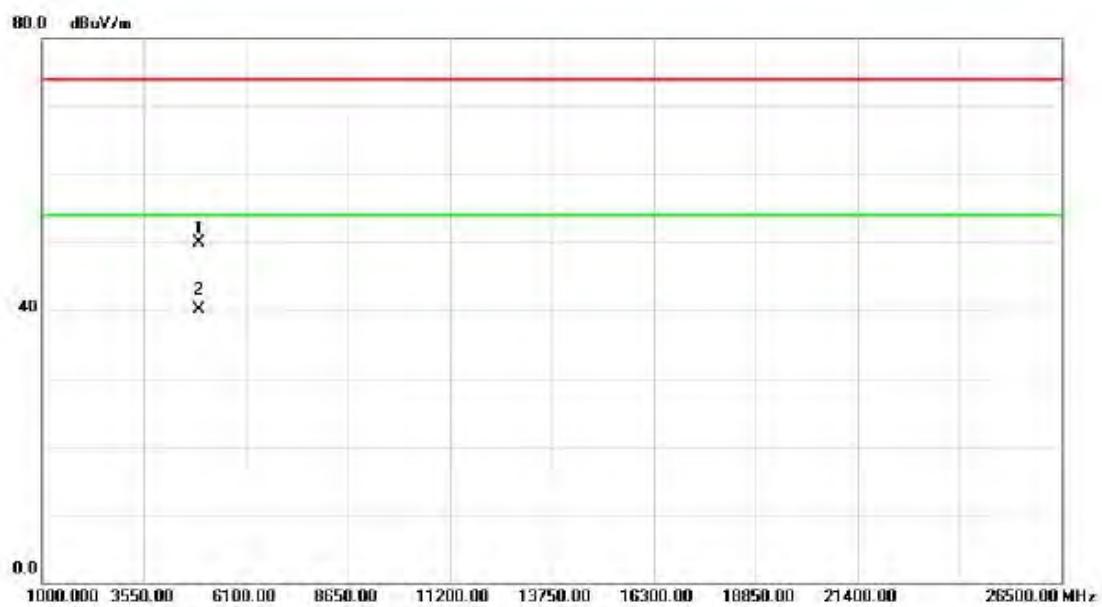
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2462MHz- Internal antenna |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|---------------|----------------|------------------|--------|--------|----------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | X | 2463.800 | 65.37 | 32.78 | 98.15 | 74.00 | 24.15 | peak | No Limit |
| 2 | * | 2469.400 | 57.10 | 32.79 | 89.89 | 54.00 | 35.89 | AVG | No Limit |
| 3 | | 2483.500 | 24.83 | 32.81 | 57.64 | 74.00 | -16.36 | peak | |
| 4 | | 2483.500 | 14.73 | 32.81 | 47.54 | 54.00 | -6.46 | AVG | |
| 5 | | 2500.000 | 24.80 | 32.83 | 57.63 | 74.00 | -16.37 | peak | |
| 6 | | 2500.000 | 17.03 | 32.83 | 49.86 | 54.00 | -4.14 | AVG | |
| 7 | | 2540.800 | 25.72 | 32.90 | 58.62 | 74.00 | -15.38 | peak | |
| 8 | | 2540.800 | 15.80 | 32.90 | 48.70 | 54.00 | -5.30 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2462MHz- Internal antenna |

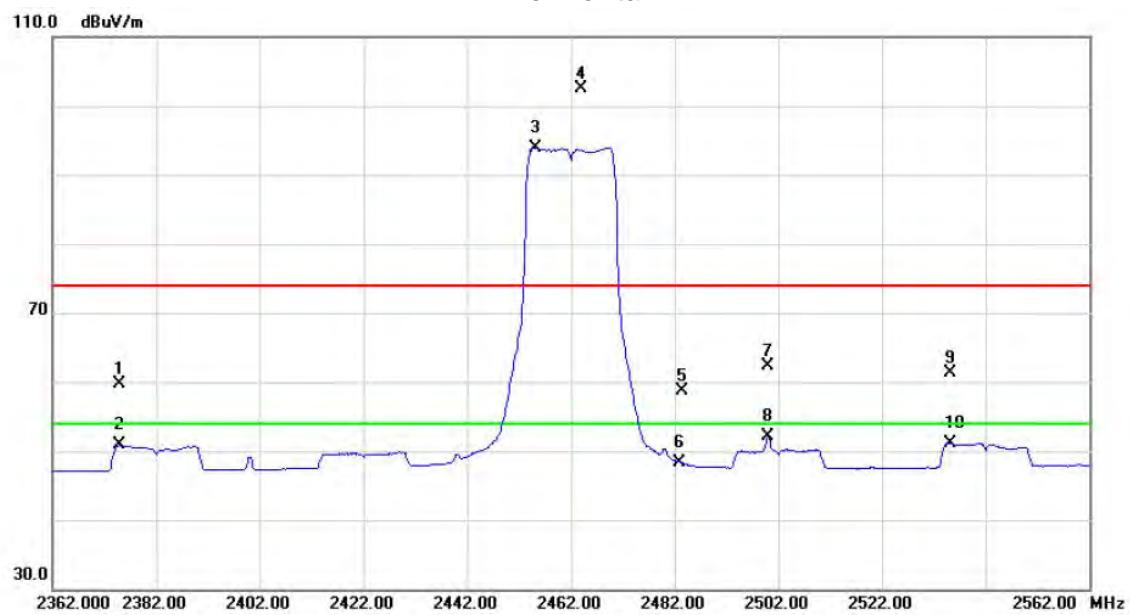
Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 4924.000 | 43.72 | 6.14 | 49.86 | 74.00 | -24.14 | peak | |
| 2 | * | 4924.000 | 33.88 | 6.14 | 40.02 | 54.00 | -13.98 | AVG | |

| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2462MHz- Internal antenna |

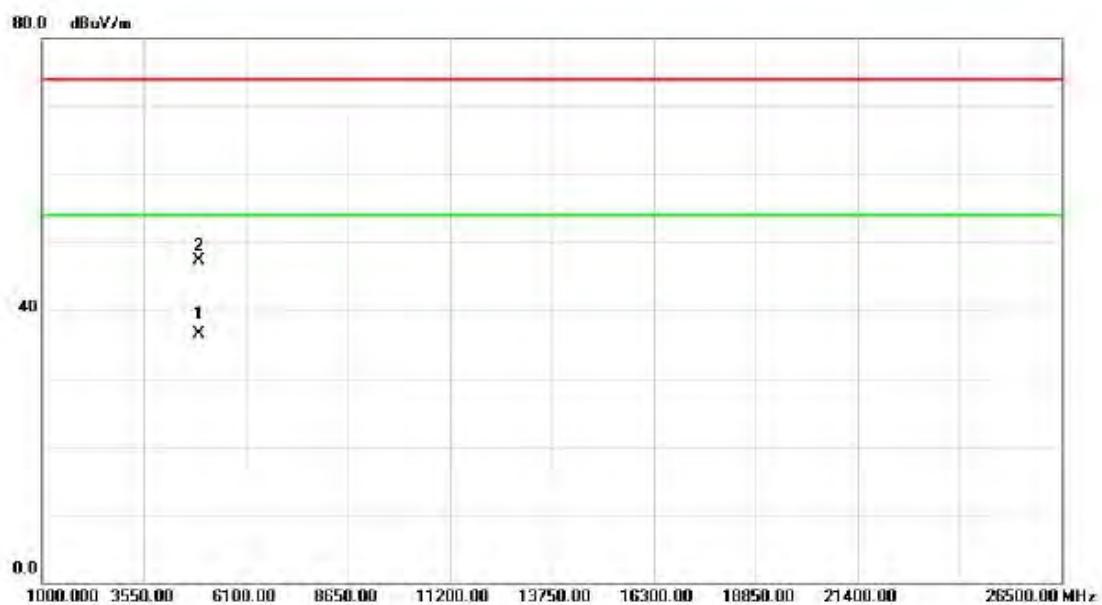
Horizontal



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure-ment dBuV/m | Limit dB | Margin | Detector | Comment |
|-----|-----|-----------|--------------------|-------------------|---------------------|----------|--------|----------|----------|
| 1 | | 2375.000 | 27.05 | 32.66 | 59.71 | 74.00 | -14.29 | peak | |
| 2 | | 2375.000 | 18.15 | 32.66 | 50.81 | 54.00 | -3.19 | AVG | |
| 3 | * | 2455.200 | 61.21 | 32.76 | 93.97 | 54.00 | 39.97 | AVG | No Limit |
| 4 | X | 2464.000 | 69.66 | 32.78 | 102.44 | 74.00 | 28.44 | peak | No Limit |
| 5 | | 2483.500 | 25.93 | 32.81 | 58.74 | 74.00 | -15.26 | peak | |
| 6 | | 2483.500 | 15.47 | 32.81 | 48.28 | 54.00 | -5.72 | AVG | |
| 7 | | 2500.000 | 29.47 | 32.83 | 62.30 | 74.00 | -11.70 | peak | |
| 8 | | 2500.000 | 19.21 | 32.83 | 52.04 | 54.00 | -1.96 | AVG | |
| 9 | | 2535.200 | 28.45 | 32.89 | 61.34 | 74.00 | -12.66 | peak | |
| 10 | | 2535.200 | 18.30 | 32.89 | 51.19 | 54.00 | -2.81 | AVG | |

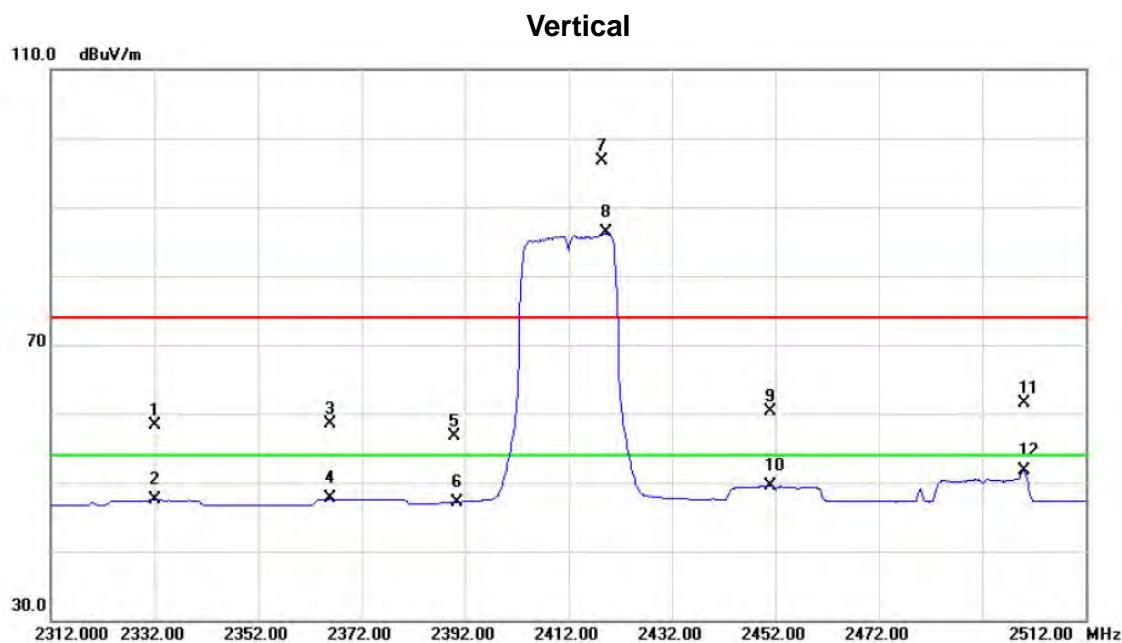
| | |
|-------------------|-------------------------------------|
| Orthogonal Axis : | X |
| Test Mode : | TX G MODE 2462MHz- Internal antenna |

Horizontal



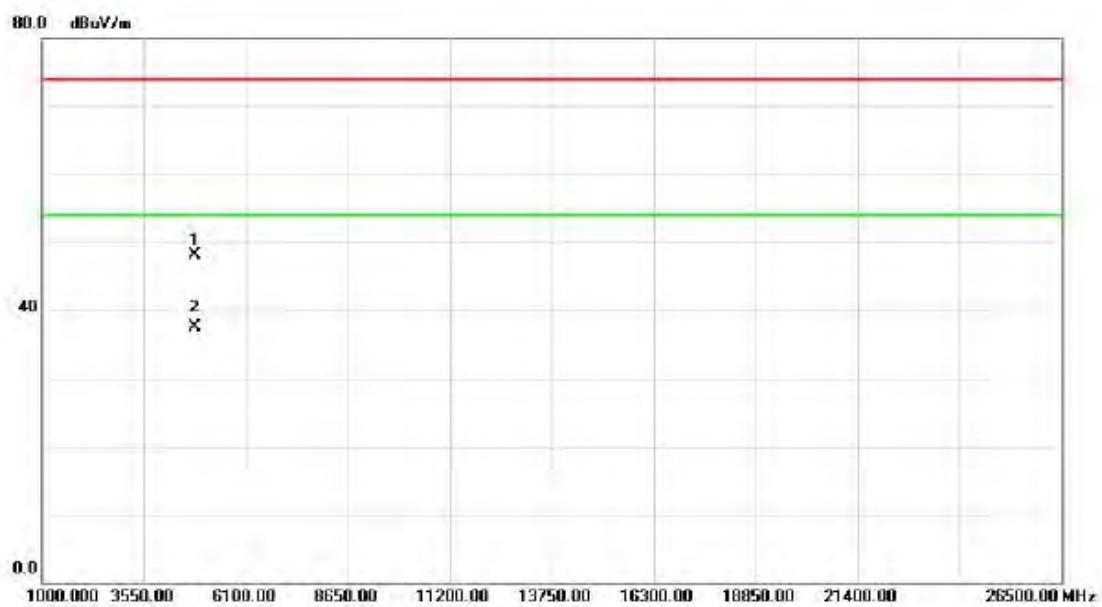
| No. | Mk. | Freq. MHz | Reading Level | Correct Factor | Measure- ment | Limit | Margin | Detector | Comment |
|-----|-----|--------------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4924.050 | 30.34 | 6.14 | 36.48 | 54.00 | -17.52 | AVG | |
| 2 | | 4924.140 | 41.18 | 6.14 | 47.32 | 74.00 | -26.68 | peak | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2412MHz- Internal antenna |



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2332.000 | 25.70 | 32.60 | 58.30 | 74.00 | -15.70 | peak | |
| 2 | | 2332.000 | 14.98 | 32.60 | 47.58 | 54.00 | -6.42 | AVG | |
| 3 | | 2366.000 | 25.91 | 32.64 | 58.55 | 74.00 | -15.45 | peak | |
| 4 | | 2366.000 | 14.97 | 32.64 | 47.61 | 54.00 | -6.39 | AVG | |
| 5 | | 2390.000 | 24.05 | 32.68 | 56.73 | 74.00 | -17.27 | peak | |
| 6 | | 2390.000 | 14.44 | 32.68 | 47.12 | 54.00 | -6.88 | AVG | |
| 7 | X | 2418.600 | 63.93 | 32.71 | 96.64 | 74.00 | 22.64 | peak | No Limit |
| 8 | * | 2419.400 | 53.56 | 32.72 | 86.28 | 54.00 | 32.28 | AVG | No Limit |
| 9 | | 2451.000 | 27.55 | 32.76 | 60.31 | 74.00 | -13.69 | peak | |
| 10 | | 2451.000 | 16.76 | 32.76 | 49.52 | 54.00 | -4.48 | AVG | |
| 11 | | 2500.000 | 28.60 | 32.83 | 61.43 | 74.00 | -12.57 | peak | |
| 12 | | 2500.000 | 18.86 | 32.83 | 51.69 | 54.00 | -2.31 | AVG | |

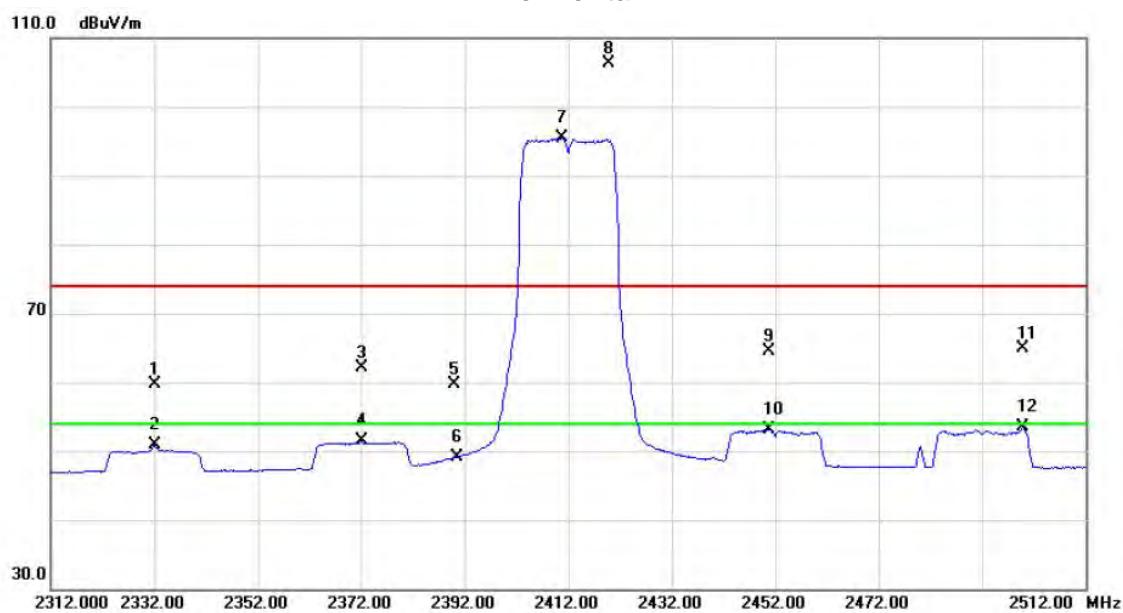
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2412MHz- Internal antenna |

Vertical

| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin |
|-----|-----|--------------|---------------|--------------|----------------|-------|-------------|
| | | | Level dBuV | Factor dB | ment dBuV/m | | |
| 1 | | 4823.940 | 42.26 | 5.87 | 48.13 | 74.00 | -25.87 peak |
| 2 | * | 4823.940 | 31.70 | 5.87 | 37.57 | 54.00 | -16.43 AVG |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2412MHz- Internal antenna |

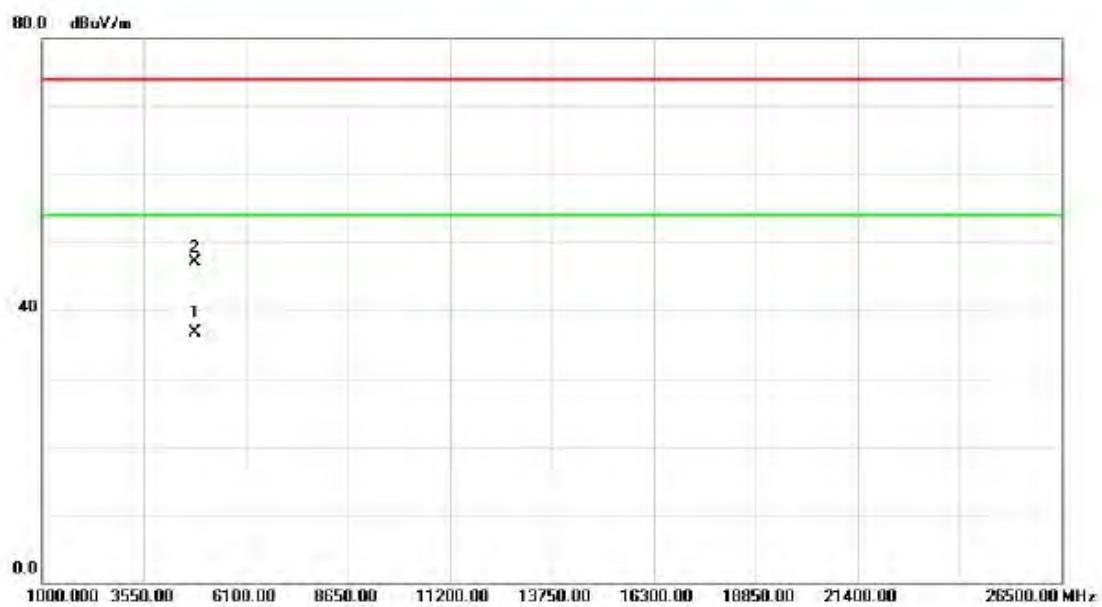
Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2332.000 | 27.20 | 32.60 | 59.80 | 74.00 | -14.20 | peak | |
| 2 | | 2332.000 | 18.30 | 32.60 | 50.90 | 54.00 | -3.10 | AVG | |
| 3 | | 2372.000 | 29.49 | 32.66 | 62.15 | 74.00 | -11.85 | peak | |
| 4 | | 2372.000 | 18.80 | 32.66 | 51.46 | 54.00 | -2.54 | AVG | |
| 5 | | 2390.000 | 27.02 | 32.68 | 59.70 | 74.00 | -14.30 | peak | |
| 6 | | 2390.000 | 16.43 | 32.68 | 49.11 | 54.00 | -4.89 | AVG | |
| 7 | * | 2410.800 | 62.72 | 32.71 | 95.43 | 54.00 | 41.43 | AVG | No Limit |
| 8 | X | 2419.800 | 73.60 | 32.72 | 106.32 | 74.00 | 32.32 | peak | No Limit |
| 9 | | 2450.800 | 31.79 | 32.76 | 64.55 | 74.00 | -9.45 | peak | |
| 10 | | 2450.800 | 20.40 | 32.76 | 53.16 | 54.00 | -0.84 | AVG | |
| 11 | | 2499.800 | 32.12 | 32.83 | 64.95 | 74.00 | -9.05 | peak | |
| 12 | | 2499.800 | 20.65 | 32.83 | 53.48 | 54.00 | -0.52 | AVG | |

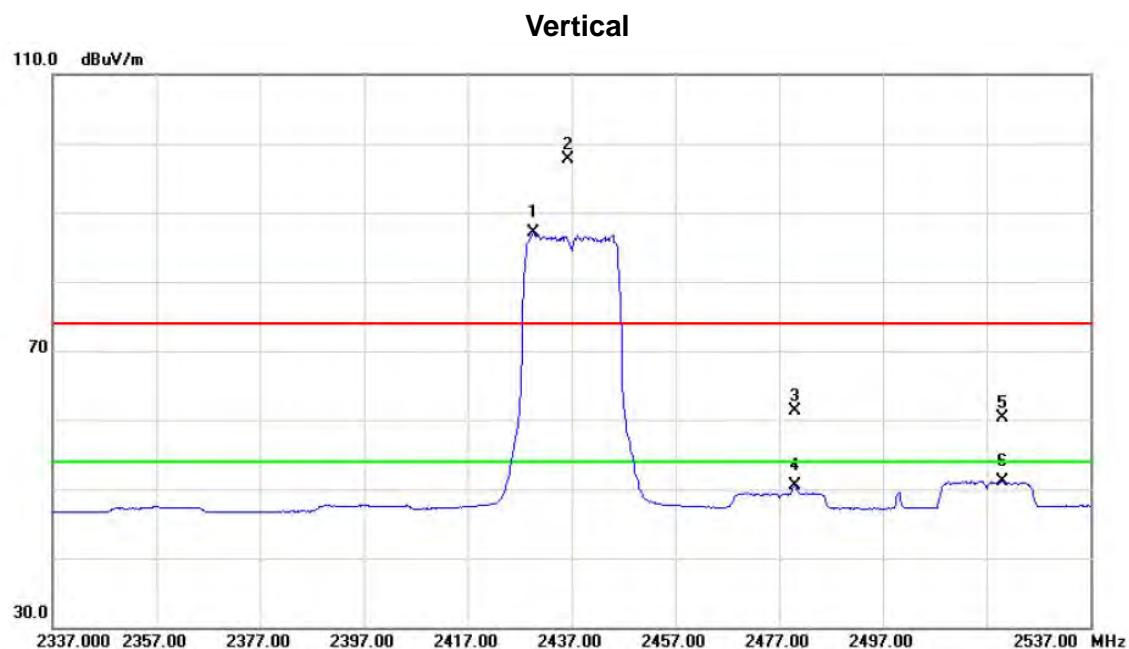
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2412MHz- Internal antenna |

Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4823.750 | 30.88 | 5.87 | 36.75 | 54.00 | -17.25 | AVG | |
| 2 | | 4823.960 | 41.23 | 5.87 | 47.10 | 74.00 | -26.90 | peak | |

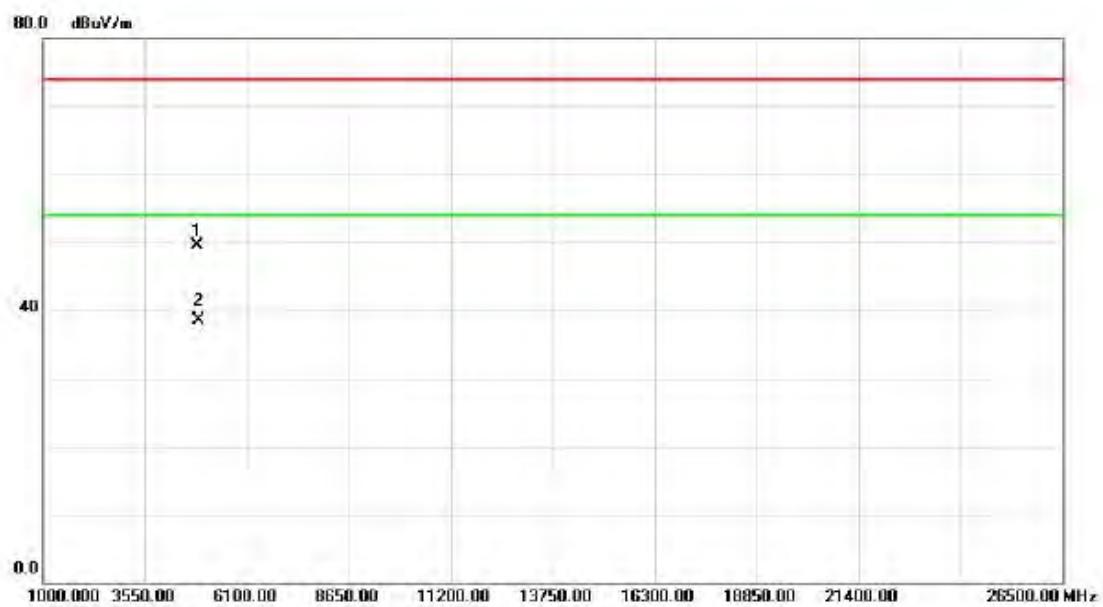
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2437MHz- Internal antenna |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2429.600 | 54.36 | 32.73 | 87.09 | 54.00 | 33.09 | AVG | No Limit |
| 2 | X | 2436.200 | 64.94 | 32.74 | 97.68 | 74.00 | 23.68 | peak | No Limit |
| 3 | | 2480.000 | 28.46 | 32.80 | 61.26 | 74.00 | -12.74 | peak | |
| 4 | | 2480.000 | 17.71 | 32.80 | 50.51 | 54.00 | -3.49 | AVG | |
| 5 | | 2520.000 | 27.35 | 32.86 | 60.21 | 74.00 | -13.79 | peak | |
| 6 | | 2520.000 | 18.34 | 32.86 | 51.20 | 54.00 | -2.80 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2437MHz- Internal antenna |

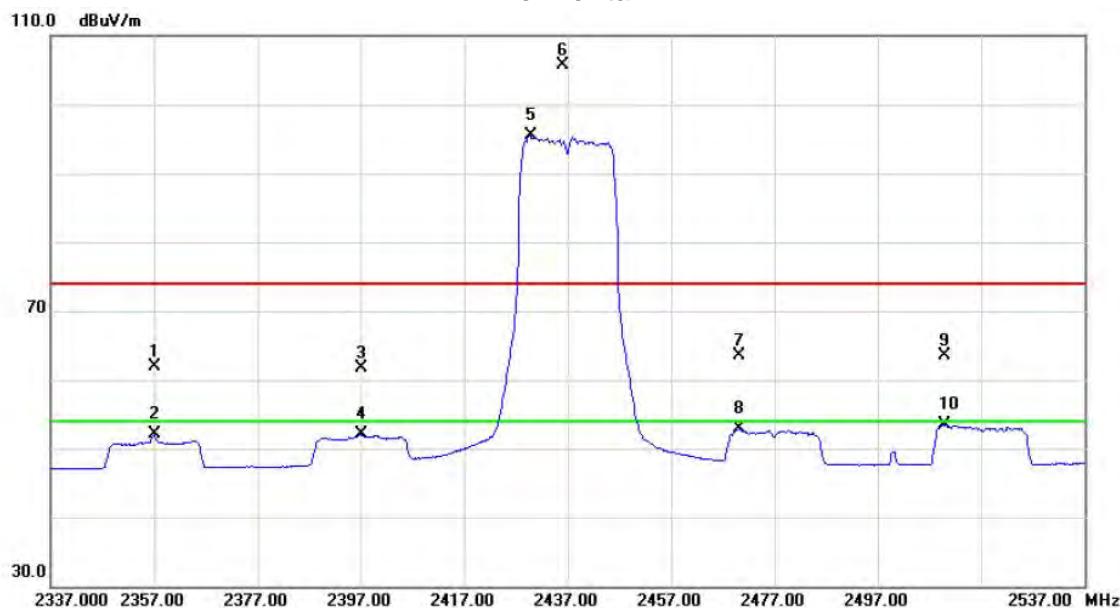
Vertical



| No. | Mk. | Freq. MHz | Reading Level | Correct Factor | Measure- ment | Limit | Margin | Detector | Comment |
|-----|-----|--------------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 4874.020 | 43.46 | 6.01 | 49.47 | 74.00 | -24.53 | peak | |
| 2 | * | 4873.640 | 32.53 | 6.01 | 38.54 | 54.00 | -15.46 | AVG | |

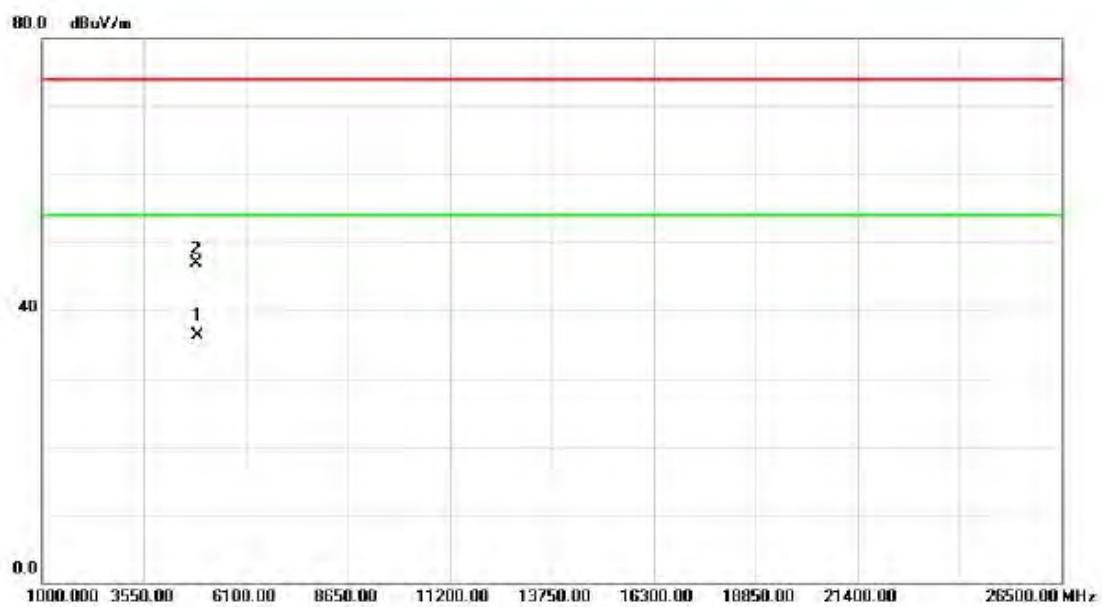
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2437MHz- Internal antenna |

Horizontal



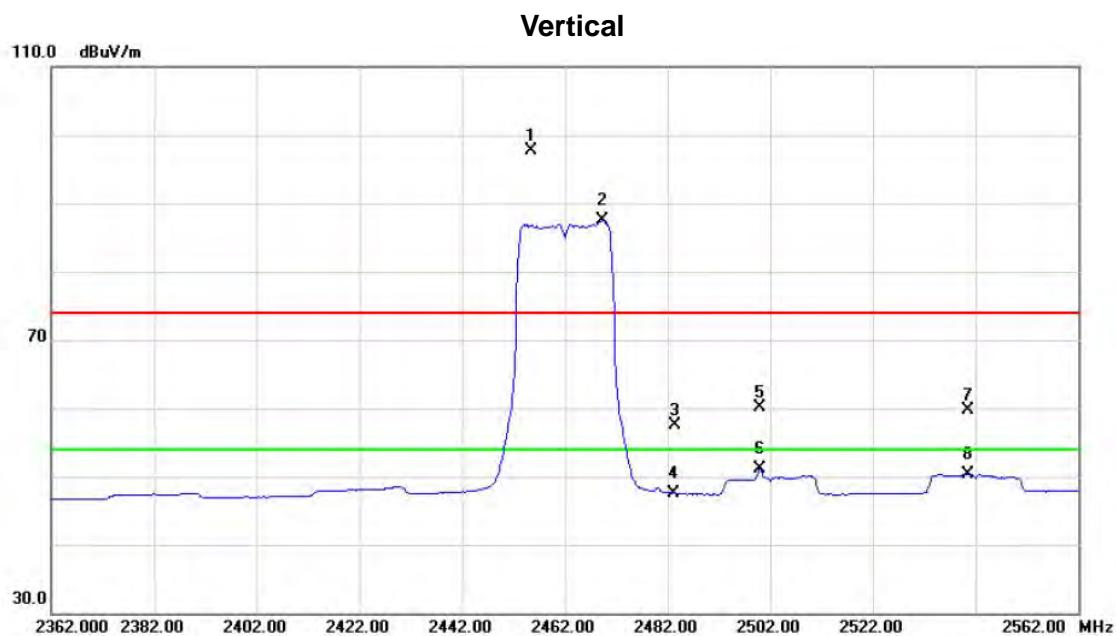
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | | 2357.000 | 29.21 | 32.64 | 61.85 | 74.00 | -12.15 | peak | |
| 2 | | 2357.000 | 19.49 | 32.64 | 52.13 | 54.00 | -1.87 | AVG | |
| 3 | | 2397.000 | 29.04 | 32.69 | 61.73 | 74.00 | -12.27 | peak | |
| 4 | | 2397.000 | 19.41 | 32.69 | 52.10 | 54.00 | -1.90 | AVG | |
| 5 | * | 2429.800 | 62.85 | 32.73 | 95.58 | 54.00 | 41.58 | AVG | No Limit |
| 6 | X | 2436.000 | 72.96 | 32.74 | 105.70 | 74.00 | 31.70 | peak | No Limit |
| 7 | | 2470.200 | 30.63 | 32.79 | 63.42 | 74.00 | -10.58 | peak | |
| 8 | | 2470.200 | 20.08 | 32.79 | 52.87 | 54.00 | -1.13 | AVG | |
| 9 | | 2509.800 | 30.59 | 32.85 | 63.44 | 74.00 | -10.56 | peak | |
| 10 | | 2509.800 | 20.58 | 32.85 | 53.43 | 54.00 | -0.57 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2437MHz- Internal antenna |

Horizontal

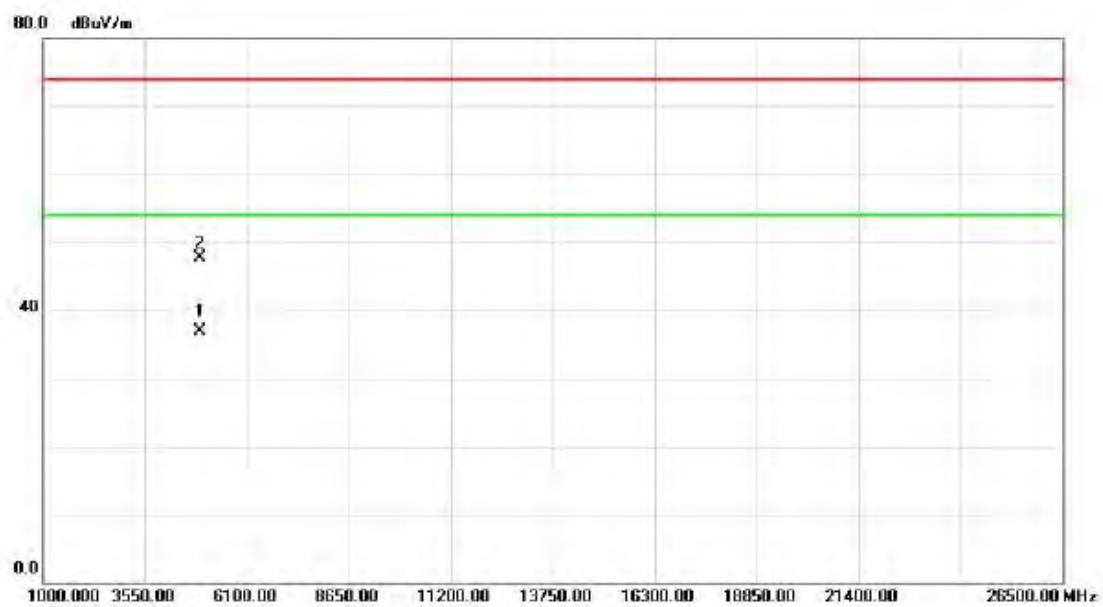
| No. | Mk. | Freq. MHz | Reading Level | Correct Factor | Measure- ment | Limit | Margin | Detector | Comment |
|-----|-----|--------------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4873.680 | 30.23 | 6.01 | 36.24 | 54.00 | -17.76 | AVG | |
| 2 | | 4874.180 | 40.94 | 6.01 | 46.95 | 74.00 | -27.05 | peak | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2462MHz- Internal antenna |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure-ment dBuV/m | Limit dB | Margin Detector | Comment |
|-----|-----|-----------|--------------------|-------------------|---------------------|----------|-----------------|---------------|
| 1 | X | 2455.400 | 64.99 | 32.76 | 97.75 | 74.00 | 23.75 | peak No Limit |
| 2 | * | 2469.400 | 54.72 | 32.79 | 87.51 | 54.00 | 33.51 | AVG No Limit |
| 3 | | 2483.500 | 24.65 | 32.81 | 57.46 | 74.00 | -16.54 | peak |
| 4 | | 2483.500 | 14.72 | 32.81 | 47.53 | 54.00 | -6.47 | AVG |
| 5 | | 2500.000 | 27.34 | 32.83 | 60.17 | 74.00 | -13.83 | peak |
| 6 | | 2500.000 | 18.30 | 32.83 | 51.13 | 54.00 | -2.87 | AVG |
| 7 | | 2540.600 | 26.88 | 32.89 | 59.77 | 74.00 | -14.23 | peak |
| 8 | | 2540.600 | 17.47 | 32.89 | 50.36 | 54.00 | -3.64 | AVG |

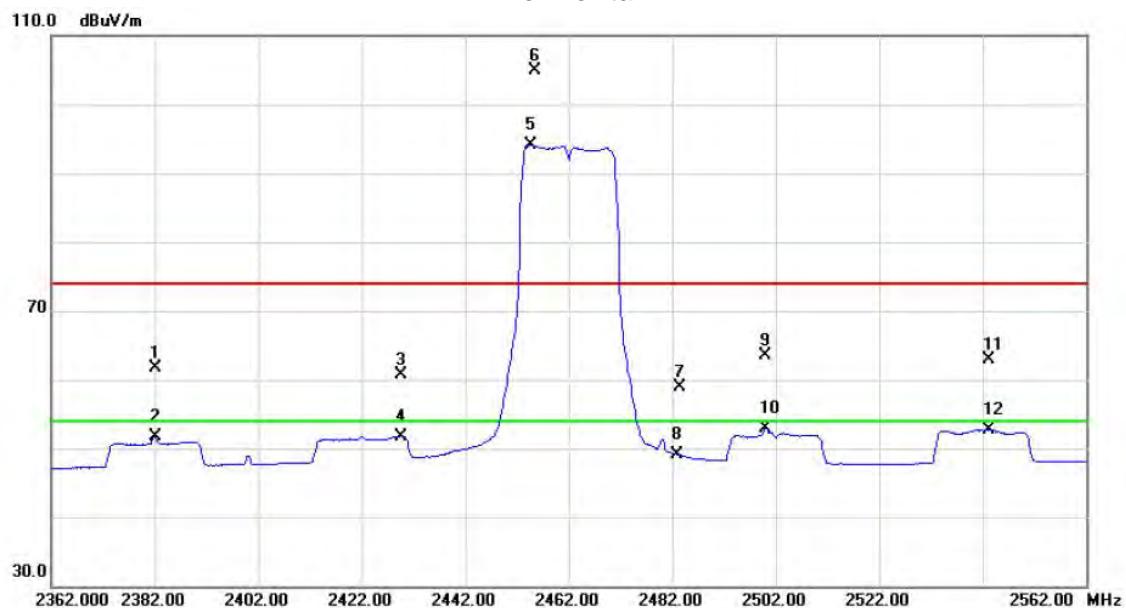
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2462MHz- Internal antenna |

Vertical

| No. | Mk. | Freq. MHz | Reading Level | Correct Factor | Measure- ment | Limit | Margin | Detector | Comment |
|-----|-----|--------------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | | | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4923.930 | 30.83 | 6.14 | 36.97 | 54.00 | -17.03 | AVG | |
| 2 | | 4923.960 | 41.52 | 6.14 | 47.66 | 74.00 | -26.34 | peak | |

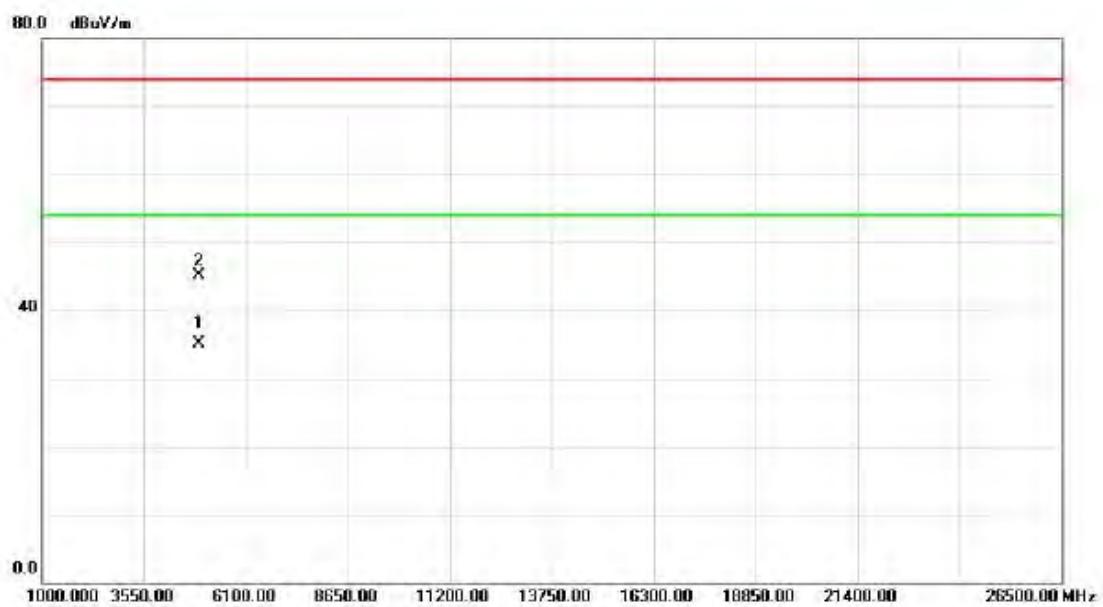
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2462MHz- Internal antenna |

Horizontal



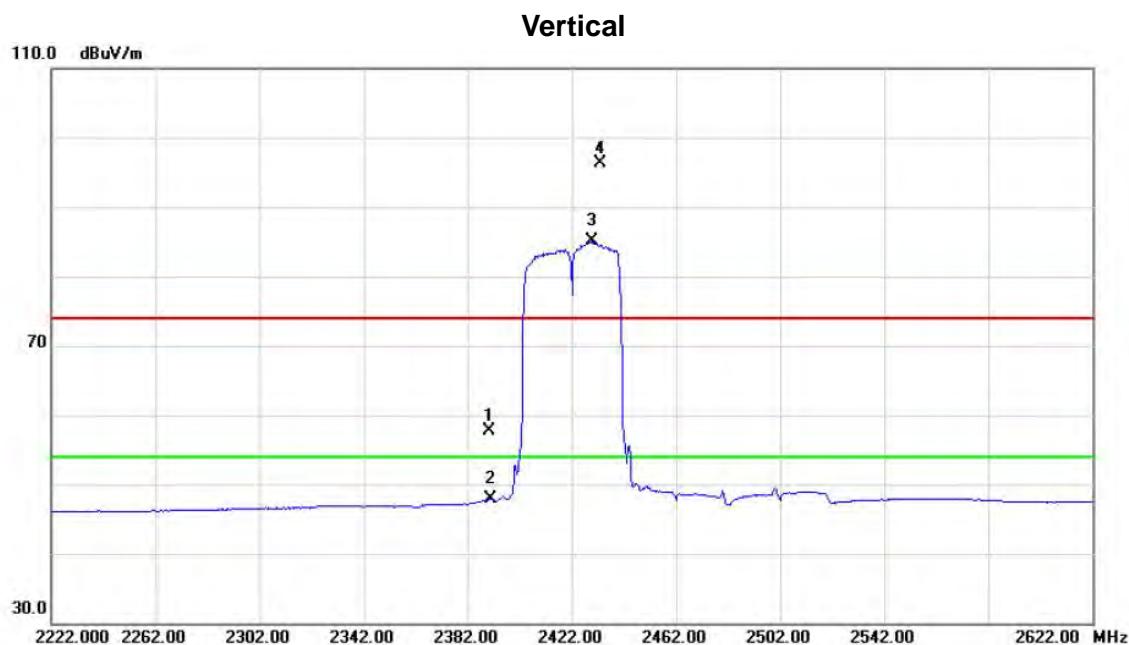
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dB | Margin | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-------------|--------|----------|----------|
| 1 | | 2382.000 | 28.96 | 32.67 | 61.63 | 74.00 | -12.37 | peak | |
| 2 | | 2382.000 | 19.11 | 32.67 | 51.78 | 54.00 | -2.22 | AVG | |
| 3 | | 2429.600 | 28.00 | 32.73 | 60.73 | 74.00 | -13.27 | peak | |
| 4 | | 2429.600 | 19.07 | 32.73 | 51.80 | 54.00 | -2.20 | AVG | |
| 5 | * | 2454.600 | 61.34 | 32.76 | 94.10 | 54.00 | 40.10 | AVG | No Limit |
| 6 | X | 2455.400 | 72.15 | 32.76 | 104.91 | 74.00 | 30.91 | peak | No Limit |
| 7 | | 2483.500 | 26.07 | 32.81 | 58.88 | 74.00 | -15.12 | peak | |
| 8 | | 2483.500 | 16.22 | 32.81 | 49.03 | 54.00 | -4.97 | AVG | |
| 9 | | 2500.000 | 30.67 | 32.83 | 63.50 | 74.00 | -10.50 | peak | |
| 10 | | 2500.000 | 20.15 | 32.83 | 52.98 | 54.00 | -1.02 | AVG | |
| 11 | | 2543.200 | 29.91 | 32.90 | 62.81 | 74.00 | -11.19 | peak | |
| 12 | | 2543.200 | 19.90 | 32.90 | 52.80 | 54.00 | -1.20 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-20M MODE 2462MHz- Internal antenna |

Horizontal

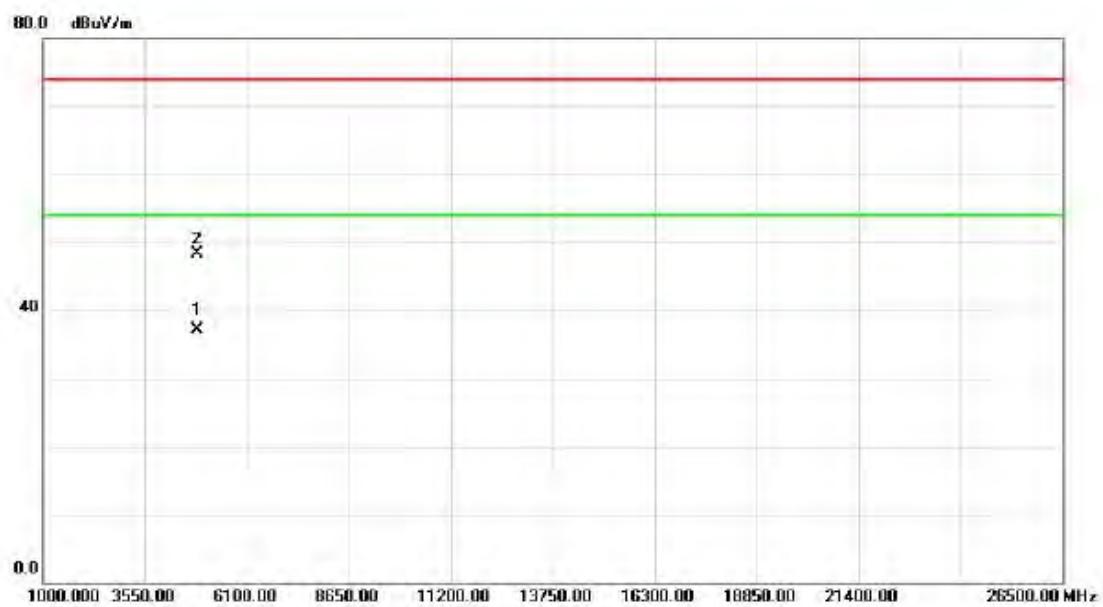
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4923.990 | 29.04 | 6.14 | 35.18 | 54.00 | -18.82 | AVG | |
| 2 | | 4924.120 | 38.89 | 6.14 | 45.03 | 74.00 | -28.97 | peak | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2422MHz- Internal antenna |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|----------|
| 1 | | 2390.000 | 24.95 | 32.68 | 57.63 | 74.00 | -16.37 | peak | |
| 2 | | 2390.000 | 15.16 | 32.68 | 47.84 | 54.00 | -6.16 | AVG | |
| 3 | * | 2429.600 | 52.44 | 32.73 | 85.17 | 54.00 | 31.17 | AVG | No Limit |
| 4 | X | 2432.800 | 63.63 | 32.74 | 96.37 | 74.00 | 22.37 | peak | No Limit |

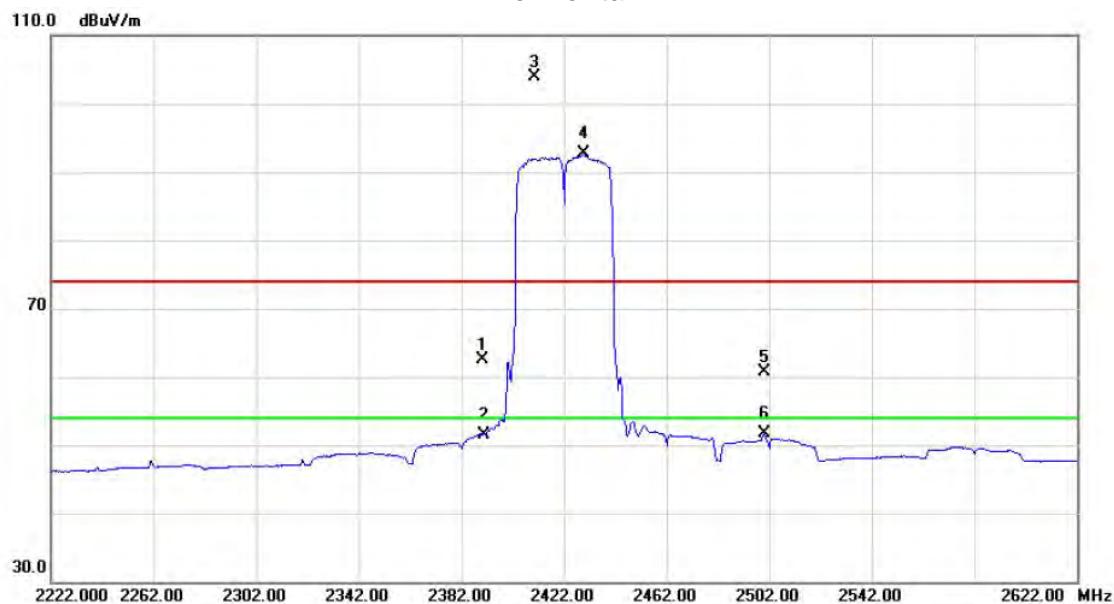
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2422MHz- Internal antenna |

Vertical

| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | * | 4843.970 | 31.26 | 5.93 | 37.19 | 54.00 | -16.81 | AVG | |
| 2 | | 4844.100 | 42.31 | 5.93 | 48.24 | 74.00 | -25.76 | peak | |

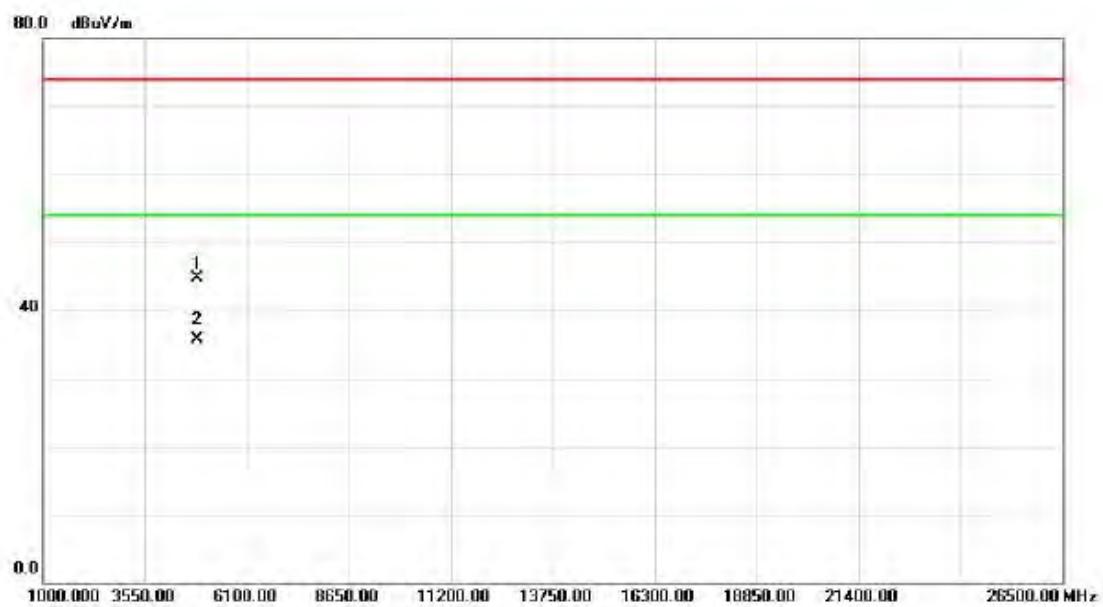
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2422MHz- Internal antenna |

Horizontal



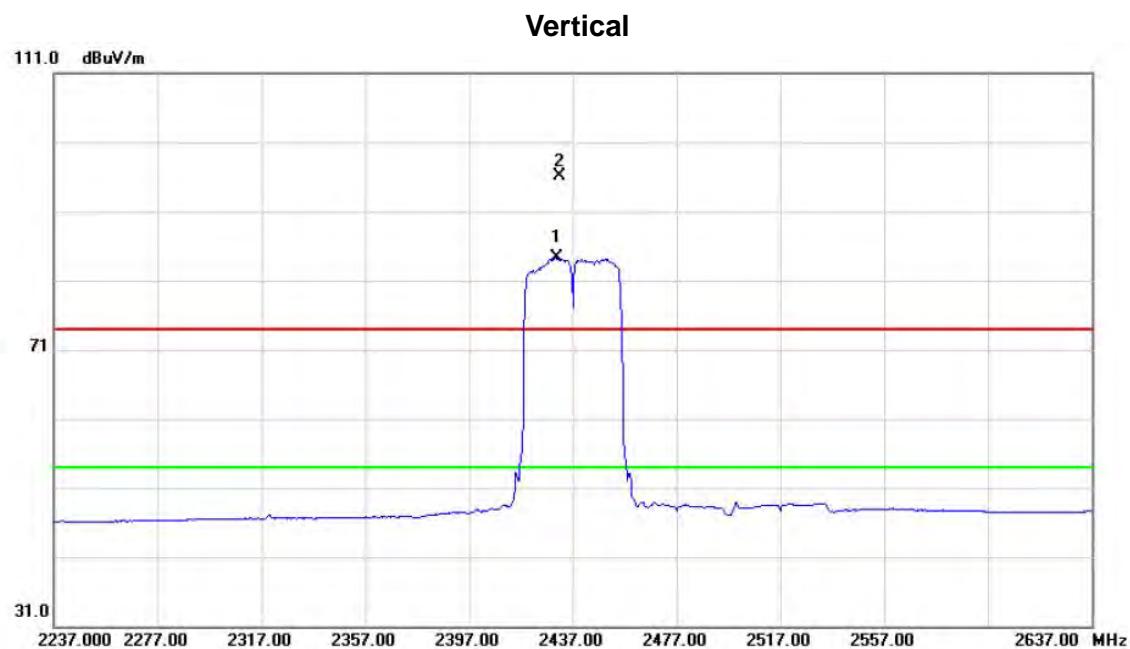
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Comment | |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 2390.000 | 29.87 | 32.68 | 62.55 | 74.00 | -11.45 | peak | |
| 2 | | 2390.000 | 18.92 | 32.68 | 51.60 | 54.00 | -2.40 | AVG | |
| 3 | X | 2410.400 | 71.16 | 32.71 | 103.87 | 74.00 | 29.87 | peak | No Limit |
| 4 | * | 2429.600 | 59.89 | 32.73 | 92.62 | 54.00 | 38.62 | AVG | No Limit |
| 5 | | 2500.000 | 27.90 | 32.83 | 60.73 | 74.00 | -13.27 | peak | |
| 6 | | 2500.000 | 18.79 | 32.83 | 51.62 | 54.00 | -2.38 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2422MHz- Internal antenna |

Horizontal

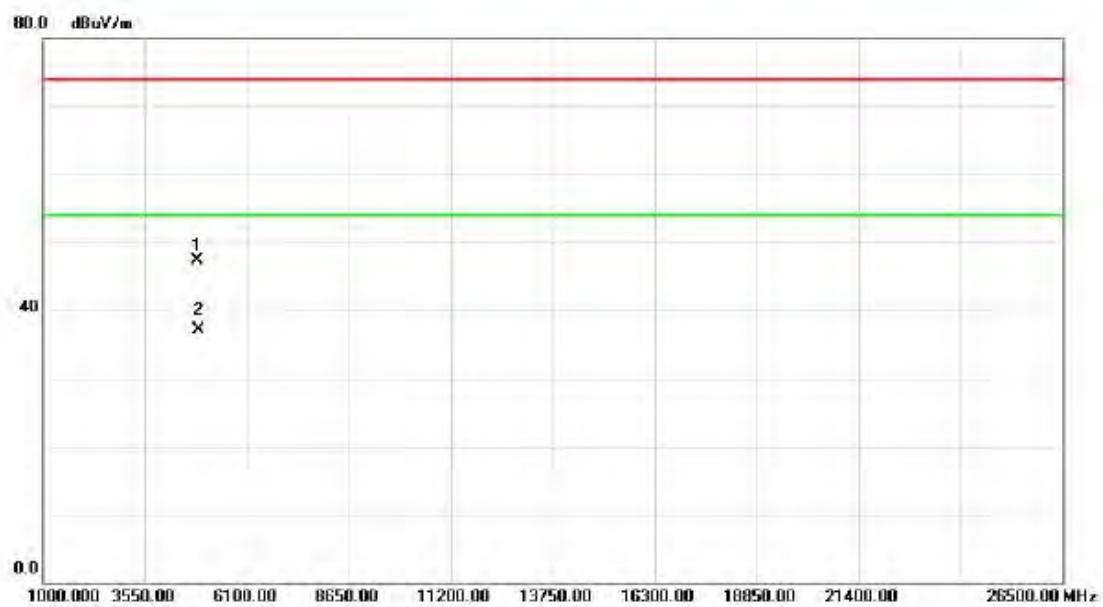
| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4843.940 | 38.80 | 5.93 | 44.73 | 74.00 | -29.27 | peak | |
| 2 | * | 4843.940 | 29.86 | 5.93 | 35.79 | 54.00 | -18.21 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2437MHz- Internal antenna |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|-----|-----|----------|---------------|----------------|------------------|--------|--------|----------|----------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 2430.600 | 51.67 | 32.73 | 84.40 | 54.00 | 30.40 | AVG | No Limit |
| 2 | X | 2431.800 | 63.43 | 32.74 | 96.17 | 74.00 | 22.17 | peak | No Limit |

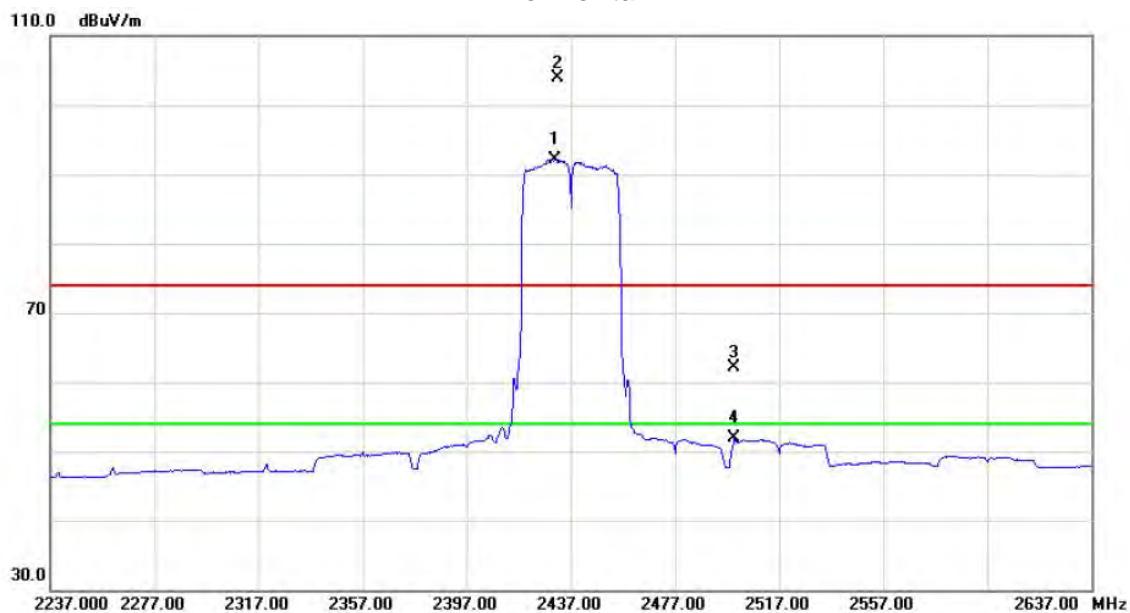
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2437MHz- Internal antenna |

Vertical

| No. | Mk. | Freq. MHz | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|--------------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 4873.950 | 41.39 | 6.01 | 47.40 | 74.00 | -26.60 | peak | |
| 2 | * | 4873.950 | 31.06 | 6.01 | 37.07 | 54.00 | -16.93 | AVG | |

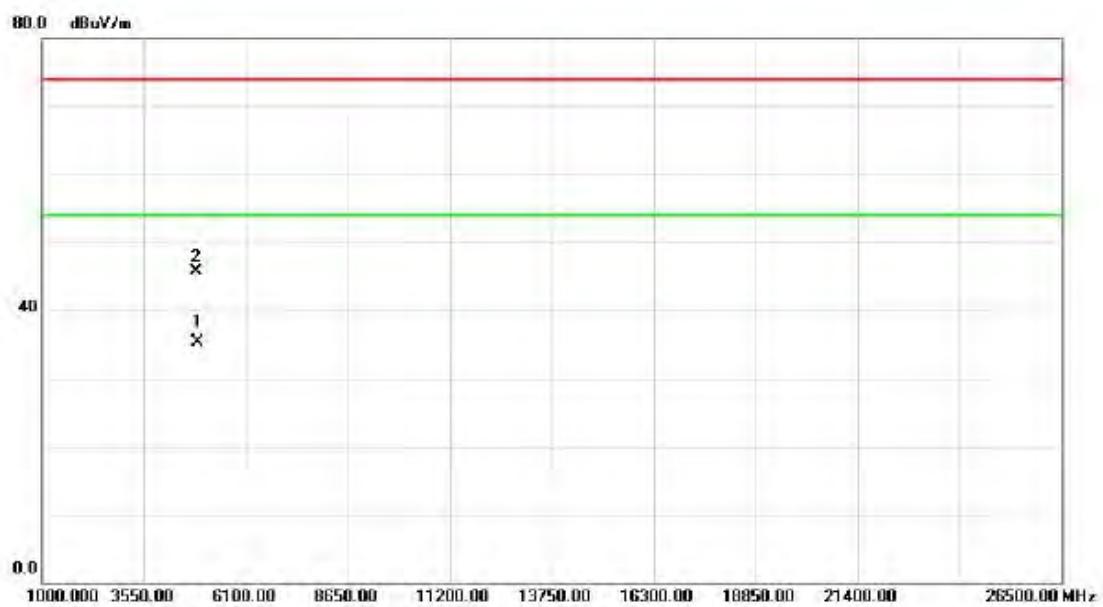
| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2437MHz- Internal antenna |

Horizontal



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|----------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 2431.000 | 59.40 | 32.73 | 92.13 | 54.00 | 38.13 | AVG | No Limit |
| 2 | X | 2431.800 | 71.26 | 32.74 | 104.00 | 74.00 | 30.00 | peak | No Limit |
| 3 | | 2499.800 | 29.33 | 32.83 | 62.16 | 74.00 | -11.84 | peak | |
| 4 | | 2499.800 | 19.01 | 32.83 | 51.84 | 54.00 | -2.16 | AVG | |

| | |
|-------------------|---|
| Orthogonal Axis : | X |
| Test Mode : | TX N-40M MODE 2437MHz- Internal antenna |

Horizontal

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | | |
| 1 | * | 4874.010 | 29.39 | 6.01 | 35.40 | 54.00 | -18.60 | AVG | |
| 2 | | 4874.060 | 39.79 | 6.01 | 45.80 | 74.00 | -28.20 | peak | |