



FCC Radio Test Report

FCC ID: KA2SHG300A1

| This report concerns (check o | ne): ⊠Original Grant □Class I Change □Class II Change |
|---|--|
| Equipment : Test Model : Series Model : Applicant : Address : | 1708C263 ZigBee to Ethernet Gateway DSH-G300 N/A D-LINK Corporation No.289, Sinhu 3rd Rd., Neihu District Taipei City 114, Taiwan, R.O.C |
| Date of Test : Issued Date : | Aug. 24, 2017 Aug. 24, 2017 ~ Sep. 25, 2017 Sep. 26, 2017 BTL Inc. |
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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.

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REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|---------------------|-----------------|---------------|
| BTL-FCCP-1-1708C263 | Original Issue. | Sep. 26, 2017 |

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1. CERTIFICATION

Equipment : ZigBee to Ethernet Gateway

Brand Name : D-Link Test Model : DSH-G300

Series Model: N/A

Applicant : D-LINK Corporation Manufacturer : D-LINK Corporation

Address : No.289, Sinhu 3rd Rd., Neihu District Taipei City 114, Taiwan, R.O.C

Date of Test : Aug. 24, 2017 ~ Sep. 25, 2017

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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-FCCP-1-1708C263) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15 (15.247) , Subpart C | | | | |
|--|-------------------------------------|----------|--------|--|
| Standard(s) Section | Test Item | Judgment | Remark | |
| 15.207 | Conducted Emission | PASS | | |
| 15.247(d) | Antenna conducted Spurious Emission | PASS | | |
| 15.247(a)(2) | 6dB Bandwidth | PASS | | |
| 15.247(b)(3) | Peak Output Power | PASS | | |
| 15.247(e) | Power Spectral Density | PASS | | |
| 15.203 | Antenna Requirement | PASS | | |
| 15.247(d)/15.205/15.209 | Transmitter Radiated Emissions | PASS | | |

| N | _ | +~ | |
|----|----|----|--|
| IV | () | ıυ | |

(1)" N/A" denotes test is not applicable in this test report.

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2.1 TEST FACILITY

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

BTL's test firm number for FCC: 854385 BTL's designation number for FCC:CN5020

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_{cispr} 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) |
|-----------|--------|-----------------------------|---------|
| DG-C02 | CISPR | 150 KHz ~ 30MHz | 2.32 |

B. Radiated Measurement:

| Test Site | Method Measurement Frequency Range | | Ant. H / V | U, (dB) |
|-----------|------------------------------------|-------------------|---------------|---------|
| | | 9KHz~30MHz | V | 3.79 |
| | | 9KHz~30MHz | Н | 3.57 |
| | | 30MHz ~ 200MHz | V | 3.82 |
| | | 30MHz ~ 200MHz | Н | 3.78 |
| DG-CB03 | CISPR | 200MHz ~ 1,000MHz | V | 4.10 |
| DG-CB03 | CISER | 200MHz ~ 1,000MHz | Н | 4.06 |
| | | 1GHz~18GHz | V | 3.12 |
| | | 1GHz~18GHz | Н | 3.68 |
| | | 18GHz~40GHz | V | 4.15 |
| | 18GHz~40GHz | Н | 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.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| Equipment | ZigBee to Ethernet Gateway | | | |
|---------------------|--|---|--|--|
| Brand Name | D-Link | D-Link | | |
| Test Model | DSH-G300 | | | |
| Series Model | N/A | | | |
| Model Difference | N/A | | | |
| | Operation Frequency | 2412~2462 MHz | | |
| | Modulation Technology 802.11b:DSSS 802.11g:OFDM 802.11n:OFDM | | | |
| Product Description | 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 150 Mbps | | |
| | Output Power (Max.) 802.11b: 22.75dBm 802.11g: 22.45dBm 802.11n(20MHz): 23.22dBm 802.11n(40MHz): 23.16dBm | | | |
| Power Source | DC voltage supplied from AC/DC adapter. Brand / Model: D-Link / AMS135-0502000FU | | | |
| Power Rating | Input: 100-240Vac, 0.4A Output: 5Vdc/2A | | | |

Noto:

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 | 80 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | | |

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | PCB | N/A | 2 |

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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 | |

| For Band Edge 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 | |

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| 6dB Spectrum Bandwidth | | |
|------------------------|----------------------------------|--|
| 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 | |

| Maximum Conducted Output Power | | |
|--------------------------------|----------------------------------|--|
| 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 | |

| Power Spectral Density | | |
|------------------------|----------------------------------|--|
| 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 (6.5Mbps) 802.11n HT40 mode : BPSK (13.5Mbps)
 - 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%.

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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

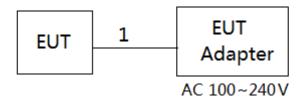
| Test software version | QATool_Dbg | | |
|-----------------------|------------|------|------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| 802.11b | 28 | 2C | 26 |
| 802.11g | 22 | 2D | 20 |
| 802.11n (20MHz) | 20 | 2D | 1F |
| Frequency (MHz) | 2422 | 2437 | 2452 |
| 802.11n (40MHz) | 20 | 30 | 1D |

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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 | Series No. |
|------|-----------|-----------|----------------|--------|------------|
| - | - | - | - | - | - |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|-------------|
| 1 | NO | NO | 1.2m | Power Cable |

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

| Fraguency of Emission (MHz) | Conducted Limit (dBµV) | | |
|-----------------------------|------------------------|-----------|--|
| Frequency of Emission (MHz) | Quasi-peak | Average | |
| 0.15 -0.50 | 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

- a. 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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

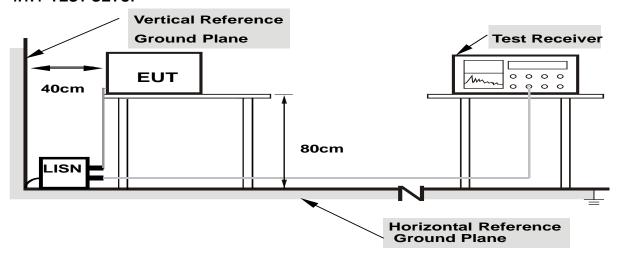
No deviation

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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 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

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 Appendix A.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

| Frequency | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (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) | | |
|-------------------|------------------------|---------|--|
| Frequency (Miriz) | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (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

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| Spectrum Parameter | Setting | |
|-------------------------------|------------------------|--|
| Attenuation | Auto | |
| Start Frequency | 1000 MHz | |
| Stop Frequency | 10th carrier harmonic | |
| RBW / VBW | 1MHz / 3MHz for Peak, | |
| (Emission in restricted band) | 1MHz / 1/T for Average | |

| 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

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter 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)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

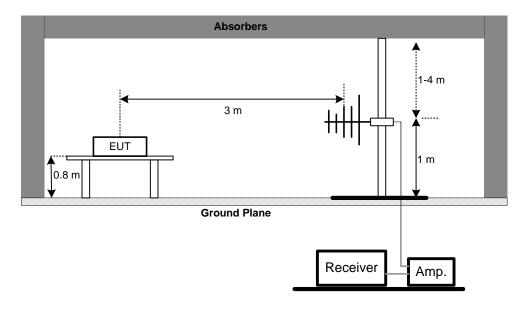
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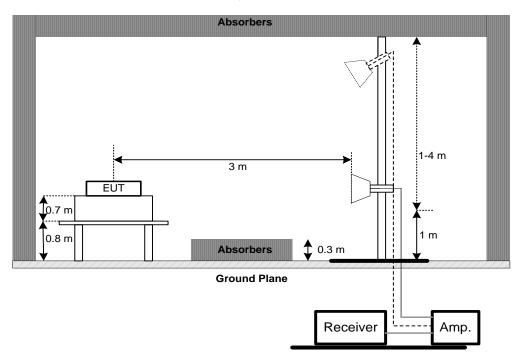


4.2.4 TEST SETUP

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



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

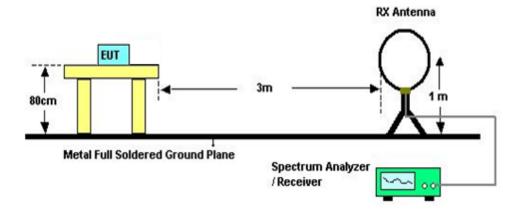


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(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 Appendix 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 (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

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

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C | | | | |
|--|-------------|------|--|--|
| Section Test Item Frequency Range (MHz) Result | | | | |
| 15.247(a)(2) | 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

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 Appendix E.

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6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | | |
|---------------------------------|----------------------|-----------------|--------------------------|--------|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | |
| 15.247(b)(3) | 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.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

| EUT | Power Meter |
|-----|----------------|
| | , c., c. meter |

6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 Appendix F.

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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.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 Appendix G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | |
|---------------------------------|------------------------|------------------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(e) | 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

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 Appendix H.

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9. MEASUREMENT INSTRUMENTS LIST

| | Conducted Emission | | | | | |
|------|-------------------------|--------------|--------------------------|------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 26, 2018 | |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 26, 2018 | |
| 3 | 50Ω Terminator | SHX | TF2-3G-A | 8122901 | Mar. 26, 2018 | |
| 4 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | Mar. 26, 2018 | |
| 5 | Cable | N/A | RG223 | 12m | Oct. 20, 2017 | |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | |

| | Radiated Emission Below 1GHz | | | | | |
|------|------------------------------|--------------|--------------------------------|-------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | Mar. 26, 2018 | |
| 2 | Amplifier | HP | 8447D | 2944A09673 | Oct. 20, 2017 | |
| 3 | Receiver | Agilent | N9038A | MY52130039 | Aug. 23, 2018 | |
| 4 | Cable | emci | LMR-400(30MHz-1 GHz)(8m+5m) | N/A | Jun. 26, 2018 | |
| 5 | Controller | CT | SC100 | N/A | N/A | |
| 6 | Controller | MF | MF-7802 | MF780208416 | N/A | |
| 7 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | |
| 8 | Active Loop Antenna | R&S | HFH2-Z2 | 830749/020 | Sep. 05, 2018 | |

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| | Radiated Emission Above 1GHz | | | | | |
|------|---|-------------------|-----------------------------|---------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Double Ridged Guide Antenna | ETS | 3115 | 75789 | Mar. 26, 2018 | |
| 2 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Jun. 08, 2018 | |
| 3 | Amplifier | Agilent | 8449B | 3008A02274 | May. 16, 2018 | |
| 4 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 26, 2018 | |
| 5 | Receiver | Agilent | N9038A | MY52130039 | Aug. 23, 2018 | |
| 6 | Antenna | EM | EM-6876-1 | 230 | Jul. 07, 2018 | |
| 7 | Controller | СТ | SC100 | N/A | N/A | |
| 8 | Controller | MF | MF-7802 | MF780208416 | N/A | |
| 9 | Cable | emci | EMC104-SM-SM-1 2000(12m) | N/A | Jun. 26, 2018 | |
| 10 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | |

| | 6dB Bandwidth | | | | | | | | | |
|------|-------------------|----------|------------|------------------|---------------|--|--|--|--|--|
| Item | Kind of Equipment | Type No. | Serial No. | Calibrated until | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 23, 2018 | | | | | |

| | Peak Output Power | | | | | | | | | | |
|------|-----------------------|--------------|----------|------------|------------------|--|--|--|--|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | | | | | |
| 1 | Power Meter | ANRITSU | ML2495A | 1128009 | Mar. 26, 2018 | | | | | | |
| 2 | Pulse Power Sensor | ANRITSU | MA 2411B | 1027500 | Mar. 26, 2018 | | | | | | |

| | Antenna Conducted Spurious Emission | | | | | | | | | |
|------|-------------------------------------|------------------|-------|--------|---------------|--|--|--|--|--|
| Item | Serial No. | Calibrated until | | | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 23, 2018 | | | | | |

| | Power Spectral Density | | | | | | | | | | |
|------|------------------------|------------|------------------|--------|---------------|--|--|--|--|--|--|
| Item | Kind of Equipment | Serial No. | Calibrated until | | | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 23, 2018 | | | | | | |

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

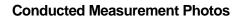
All calibration period of equipment list is one year.

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10. EUT TEST PHOTO







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Radiated Measurement Photos







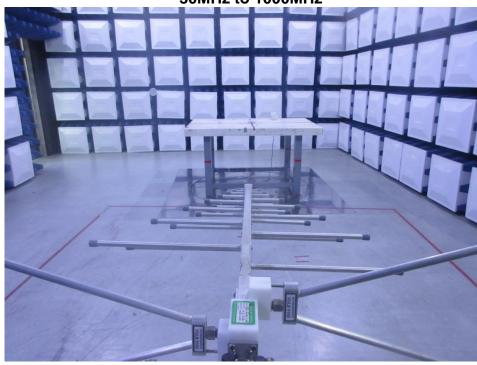
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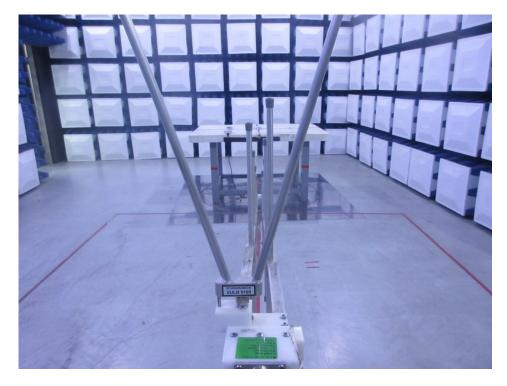




Radiated Measurement Photos

30MHz to 1000MHz





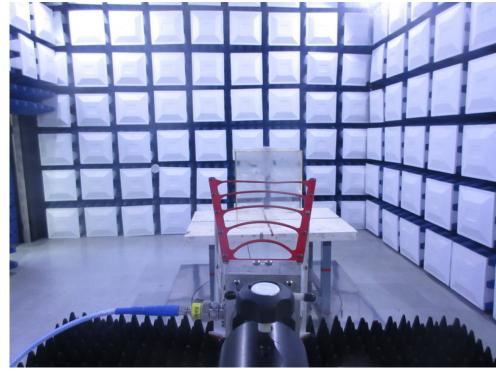
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Radiated Measurement Photos







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| ile. | - 1 |
|---------------------------------|-----|
| APPENDIX A - CONDUCTED EMISSION | |
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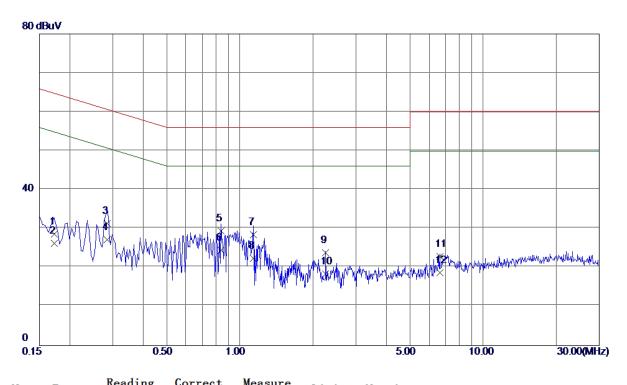
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Test Mode : TX Mode

Line



| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|-------|---------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0. 1725 | 18.80 | 9. 78 | 28. 58 | 64.84 | -36. 26 | QP | |
| 2 | 0. 1725 | 16. 48 | 9. 78 | 26. 26 | 54.84 | -28. 58 | AVG | |
| 3 | 0. 2850 | 21.60 | 9. 76 | 31. 36 | 60.67 | -29. 31 | QP | |
| 4 | 0. 2850 | 17. 50 | 9. 76 | 27. 26 | 50.67 | -23.41 | AVG | |
| 5 | 0.8385 | 19.64 | 9.83 | 29.47 | 56.00 | -26. 53 | QP | |
| 6 * | 0.8385 | 14.63 | 9.83 | 24.46 | 46.00 | -21.54 | AVG | |
| 7 | 1. 1355 | 18.63 | 9. 86 | 28. 49 | 56.00 | -27.51 | QP | |
| 8 | 1. 1355 | 12. 57 | 9.86 | 22.43 | 46.00 | -23. 57 | AVG | |
| 9 | 2. 2559 | 13.85 | 9. 94 | 23. 79 | 56.00 | -32. 21 | QP | |
| 10 | 2. 2559 | 8. 47 | 9. 94 | 18.41 | 46.00 | -27. 59 | AVG | |
| 11 | 6. 6390 | 12.69 | 10. 17 | 22.86 | 60.00 | -37. 14 | QP | |
| 12 | 6. 6390 | 8. 57 | 10. 17 | 18. 74 | 50.00 | -31. 26 | AVG | |
| | | | | | | | | |

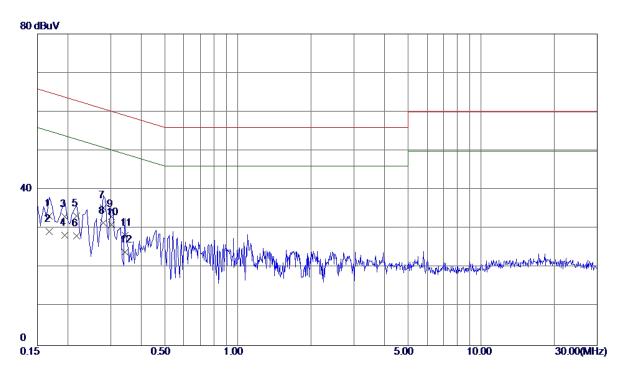
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Test Mode : TX Mode

Neutral



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|------|---------|------------------|-------------------|-----------------|---------------|------------------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1680 | 23. 58 | 9. 68 | 33. 26 | 65.06 | -31.80 | QP | |
| 2 | 0.1680 | 19. 54 | 9. 68 | 29. 22 | 55. 06 | -25.84 | AVG | |
| 3 | 0.1949 | 23. 47 | 9. 69 | 33. 16 | 63.83 | -30. 67 | QP | |
| 4 | 0. 1949 | 18.62 | 9. 69 | 28. 31 | 53.83 | -25. 52 | AVG | |
| 5 | 0.2175 | 23.67 | 9. 68 | 33. 35 | 62.91 | -29. 56 | QP | |
| 6 | 0.2175 | 18. 46 | 9. 68 | 28. 14 | 52.91 | -24.77 | AVG | |
| 7 | 0. 2805 | 25. 67 | 9. 68 | 35. 35 | 60.80 | -25.45 | QP | |
| 8 | 0. 2805 | 21.76 | 9. 68 | 31.44 | 50.80 | -19. 36 | AVG | |
| 9 | 0.3030 | 23. 40 | 9. 68 | 33. 08 | 60. 16 | -27.08 | QP | |
| 10 * | 0.3030 | 21. 30 | 9. 68 | 30. 98 | 50. 16 | -19. 18 | AVG | |
| 11 | 0.3435 | 18.69 | 9.70 | 28. 39 | 59. 12 | -30.73 | QP | |
| 12 | 0. 3435 | 14. 37 | 9. 70 | 24.07 | 49. 12 | -25 . 0 5 | AVG | |

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| APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ) |
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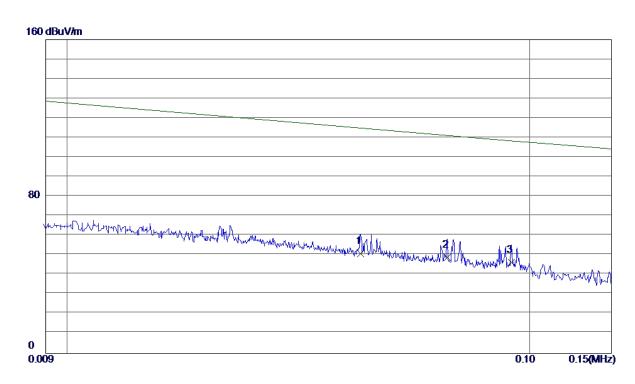
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|--------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0431 | 31.94 | 18. 93 | 50 . 87 | 120.08 | -69. 21 | AVG | |
| 2 | 0.0663 | 30. 47 | 18.40 | 48.87 | 114.35 | -65.48 | AVG | |
| 3 * | 0.0912 | 28. 64 | 17.84 | 46. 48 | 108.41 | -61. 93 | QP | |

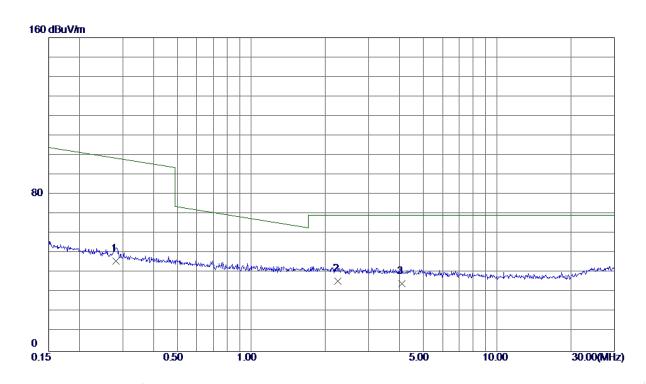
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0. 2818 | 29. 48 | 16. 63 | 46. 11 | 100.91 | -54.80 | AVG | |
| 2 * | 2. 2486 | 20. 47 | 15. 44 | 35. 91 | 69. 54 | -33.63 | QP | |
| 3 | 4. 1137 | 19.68 | 14.88 | 34. 56 | 69. 54 | -34. 98 | QP | |
| | | | | | | | | |

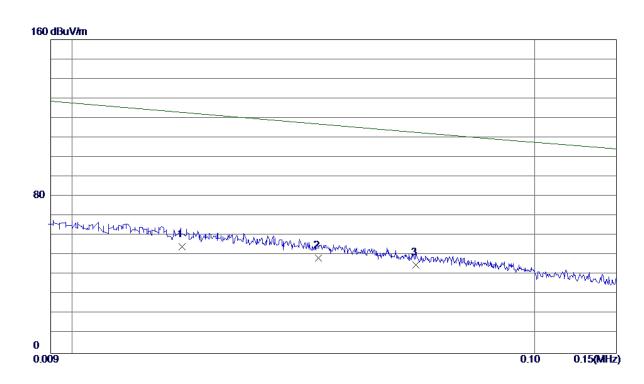
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Test Mode: TX B MODE CHANNEL 01

Ant 90°



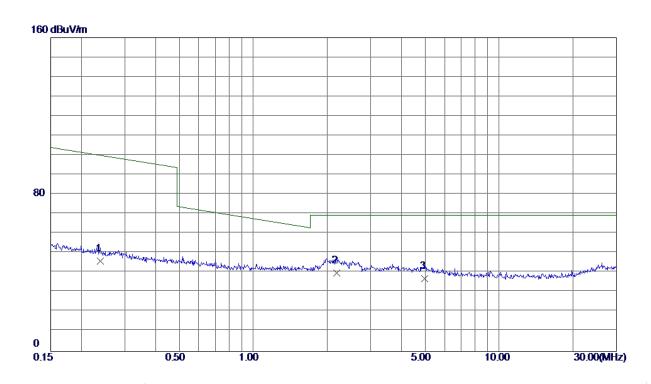
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|--------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0173 | 34. 58 | 19. 97 | 54. 55 | 126.45 | −71. 90 | AVG | |
| 2 | 0.0341 | 29.47 | 19. 20 | 48. 67 | 122.30 | -73.63 | AVG | |
| 3 * | 0.0554 | 26. 59 | 18. 62 | 45. 21 | 117.04 | -71.83 | AVG | |
| | | | | | | | | |

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Ant 90°



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0. 2391 | 29. 48 | 16. 69 | 46. 17 | 102.37 | -56. 20 | AVG | |
| 2 * | 2. 1783 | 24.69 | 15. 46 | 40. 15 | 69. 54 | -29.39 | QP | |
| 3 | 4.9782 | 22.73 | 14. 38 | 37. 11 | 69. 54 | -32.43 | QP | |
| | | | | | | | | |

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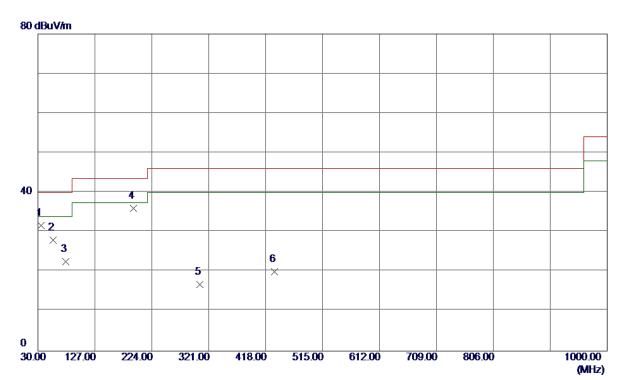
| APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ) |
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Vertical



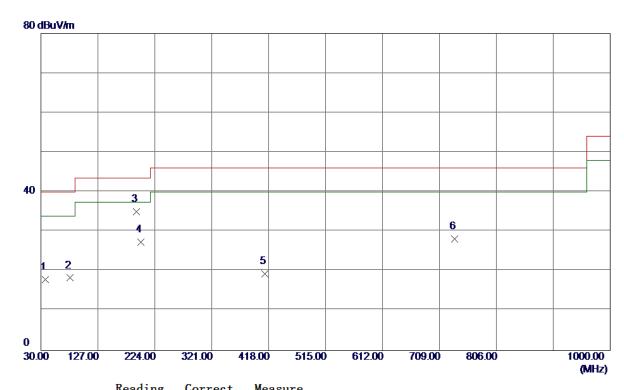
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 35.8200 | 46. 18 | -14.51 | 31.67 | 40.00 | -8. 33 | Peak | |
| 2 | 56. 1900 | 41.96 | -13. 95 | 28. 01 | 40.00 | -11.99 | Peak | |
| 3 | 77. 5300 | 40. 23 | -17.67 | 22. 56 | 40.00 | -17.44 | Peak | |
| 4 * | 192. 9600 | 49. 11 | -13. 11 | 36.00 | 43. 50 | -7. 50 | Peak | |
| 5 | 305. 4800 | 29. 47 | -12.73 | 16.74 | 46.00 | -29. 26 | Peak | |
| 6 | 433. 5200 | 30. 42 | -10.41 | 20. 01 | 46.00 | -25. 99 | Peak | |
| | | | | | | | | |

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Horizontal



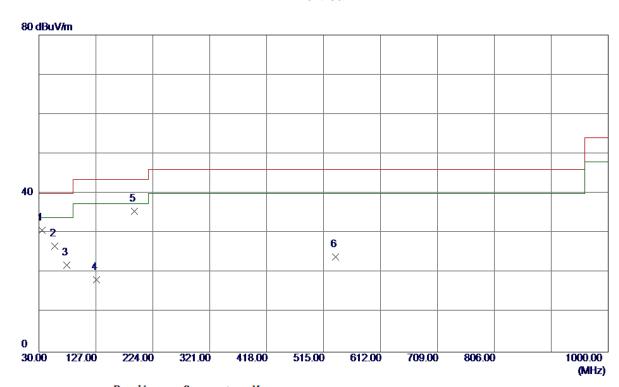
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 37.7599 | 32. 19 | -14. 30 | 17.89 | 40.00 | -22. 11 | Peak | |
| 2 | 79.4700 | 36. 44 | -18. 12 | 18. 32 | 40.00 | -21.68 | Peak | |
| 3 * | 192. 9600 | 48. 20 | -13. 11 | 35. 09 | 43.50 | -8.41 | Peak | |
| 4 | 200.7200 | 41. 17 | -13.77 | 27.40 | 43.50 | -16. 10 | Peak | |
| 5 | 411. 2100 | 30. 47 | -11. 04 | 19.43 | 46.00 | -26. 57 | Peak | |
| 6 | 735. 1900 | 31.00 | -2.89 | 28. 11 | 46.00 | -17.89 | Peak | |
| | | | | | | | | |

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Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 35.8200 | 45. 23 | -14.51 | 30.72 | 40.00 | -9. 28 | Peak | |
| 2 | 57. 1600 | 40.78 | -14.04 | 26.74 | 40.00 | -13. 26 | Peak | |
| 3 | 77. 5300 | 39. 56 | -17.67 | 21.89 | 40.00 | -18. 11 | Peak | |
| 4 | 127.9700 | 33.05 | -14.85 | 18. 20 | 43.50 | -25.30 | Peak | |
| 5 * | 192. 9600 | 48.64 | -13. 11 | 35. 53 | 43.50 | -7. 97 | Peak | |
| 6 | 535. 3700 | 32.02 | -8. 01 | 24. 01 | 46.00 | -21. 99 | Peak | |

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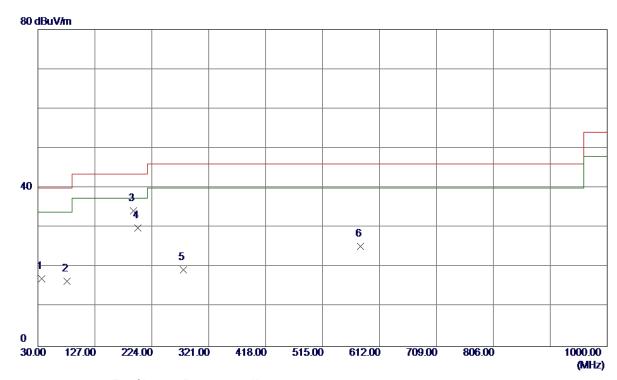




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Test Mode: TX B MODE CHANNEL 06

Horizontal



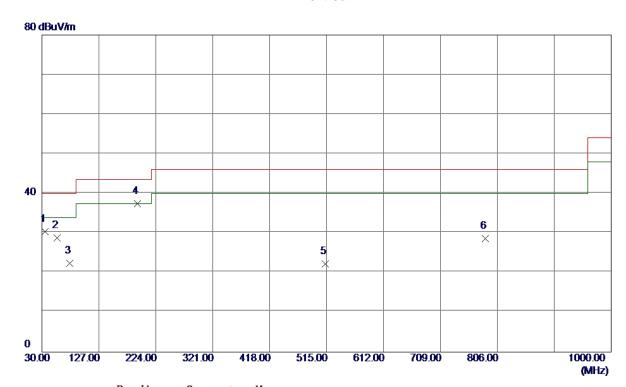
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 36. 7900 | 31. 50 | -14.41 | 17.09 | 40.00 | -22. 91 | Peak | |
| 2 | 79.4700 | 34.67 | -18. 12 | 16. 55 | 40.00 | -23.45 | Peak | |
| 3 * | 192.9600 | 47.31 | -13. 11 | 34. 20 | 43.50 | -9. 30 | Peak | |
| 4 | 200.7200 | 43.66 | -13.77 | 29.89 | 43.50 | -13.61 | Peak | |
| 5 | 278. 3200 | 34. 26 | -14.95 | 19. 31 | 46.00 | -26.69 | Peak | |
| 6 | 579. 9900 | 32. 16 | -6. 94 | 25. 22 | 46.00 | -20. 78 | Peak | |

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Vertical



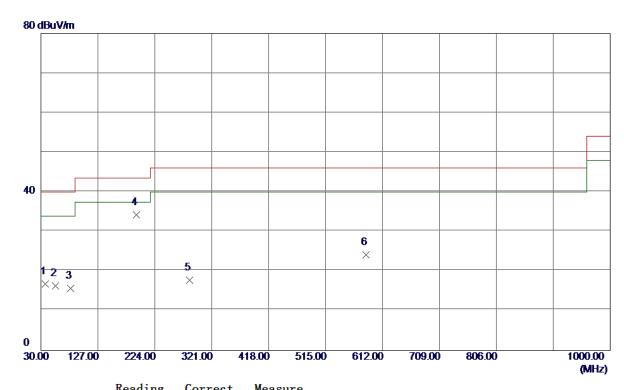
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 35.8200 | 44. 97 | -14.51 | 30.46 | 40.00 | -9. 54 | Peak | |
| 2 | 56. 1900 | 42.73 | -13. 95 | 28. 78 | 40.00 | -11. 22 | Peak | |
| 3 | 77. 5300 | 40.08 | -17.67 | 22.41 | 40.00 | -17.59 | Peak | |
| 4 * | 192. 9600 | 50. 53 | -13. 11 | 37.42 | 43. 50 | -6. 08 | Peak | |
| 5 | 513. 0600 | 30. 63 | -8. 46 | 22. 17 | 46.00 | -23.83 | Peak | |
| 6 | 785. 6300 | 30. 25 | -1. 67 | 28. 58 | 46.00 | -17.42 | Peak | |
| | | | | | | | | |

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Horizontal



| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 37.7599 | 31. 12 | -14. 30 | 16.82 | 40.00 | -23. 18 | Peak | |
| 2 | 55. 2200 | 30. 26 | -13.94 | 16. 32 | 40.00 | -23.68 | Peak | |
| 3 | 80.4400 | 33. 86 | -18. 25 | 15. 61 | 40.00 | -24.39 | Peak | |
| 4 * | 192.9600 | 47. 32 | -13. 11 | 34. 21 | 43.50 | -9. 29 | Peak | |
| 5 | 283. 1700 | 32. 33 | -14. 59 | 17.74 | 46.00 | -28. 26 | Peak | |
| 6 | 583.8700 | 30. 95 | -6. 84 | 24. 11 | 46.00 | -21.89 | Peak | |
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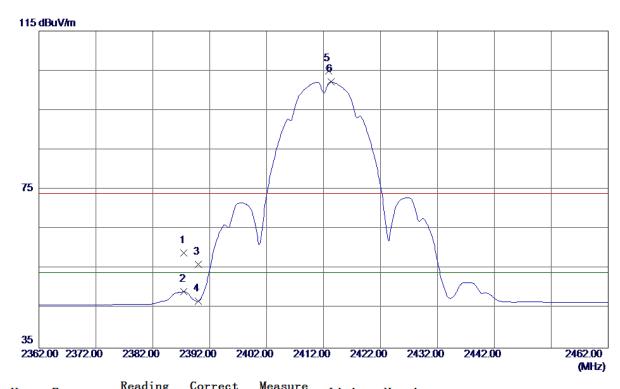
| APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ) |
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Vertical



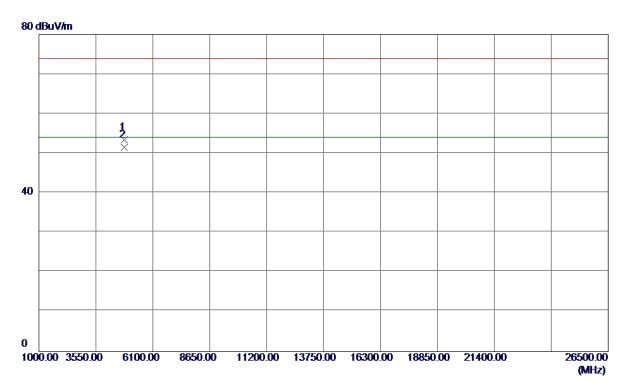
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2387. 5000 | 26. 02 | 33. 05 | 59. 07 | 74.00 | -14.93 | Peak | |
| 2 | 2387. 5000 | 16. 17 | 33. 05 | 49. 22 | 54.00 | -4.78 | AVG | |
| 3 | 2390.0000 | 23. 05 | 33. 06 | 56. 11 | 74.00 | -17.89 | Peak | |
| 4 | 2390.0000 | 13.73 | 33. 06 | 46.79 | 54.00 | -7.21 | AVG | |
| 5 | 2412. 9000 | 71.72 | 33. 14 | 104.86 | 74.00 | 30.86 | Peak | No Limit |
| 6 * | 2413. 3000 | 69. 00 | 33. 14 | 102. 14 | 54.00 | 48. 14 | AVG | No Limit |
| | | | | | | | | |

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Vertical



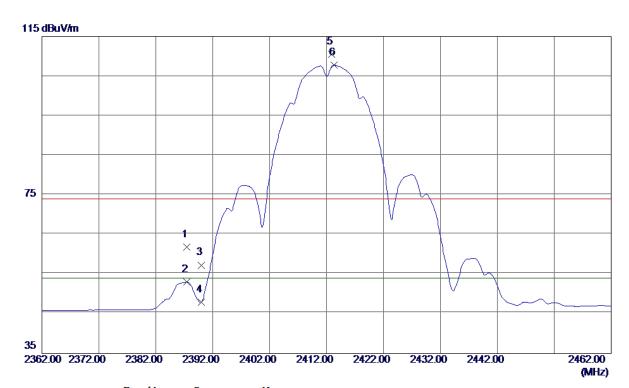
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4823.9100 | 47. 15 | 6. 32 | 53. 47 | 74.00 | -20.53 | Peak | |
| 2 * | 4824.0050 | 45. 17 | 6. 32 | 51.49 | 54.00 | -2. 51 | AVG | |

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Horizontal



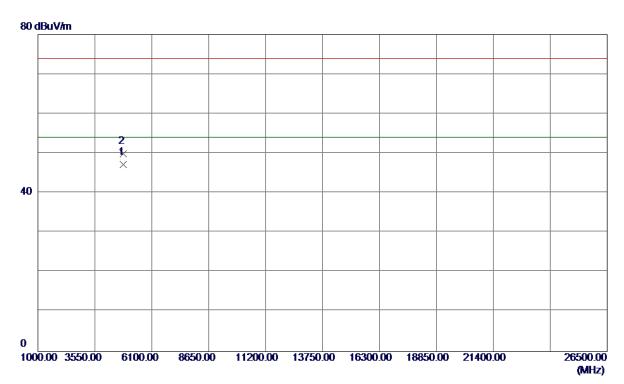
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2387.4000 | 28. 78 | 33. 05 | 61.83 | 74.00 | -12. 17 | Peak | |
| 2 | 2387.4000 | 19. 97 | 33. 05 | 53.02 | 54.00 | -0. 98 | AVG | |
| 3 | 2390.0000 | 24. 26 | 33.06 | 57. 32 | 74.00 | -16.68 | Peak | |
| 4 | 2390.0000 | 14.94 | 33.06 | 48.00 | 54.00 | -6.00 | AVG | |
| 5 | 2412.9000 | 77.46 | 33. 14 | 110.60 | 74.00 | 36. 60 | Peak | No Limit |
| 6 * | 2413. 3000 | 74.61 | 33. 14 | 107.75 | 54.00 | 53.75 | AVG | No Limit |
| | | | | | | | | |

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Horizontal



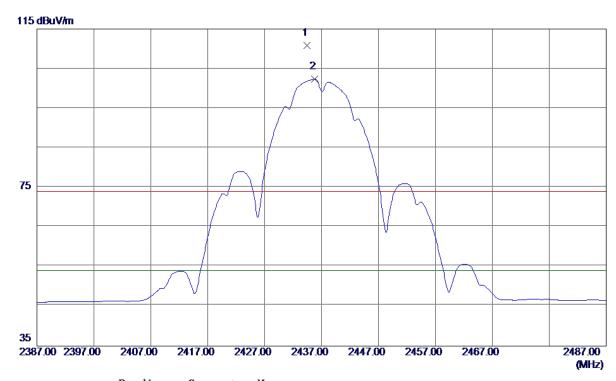
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4823. 9800 | 40.81 | 6. 32 | 47. 13 | 54.00 | -6. 87 | AVG | |
| 2 | 4824.0099 | 43.66 | 6. 32 | 49. 98 | 74.00 | -24.02 | Peak | |

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Vertical



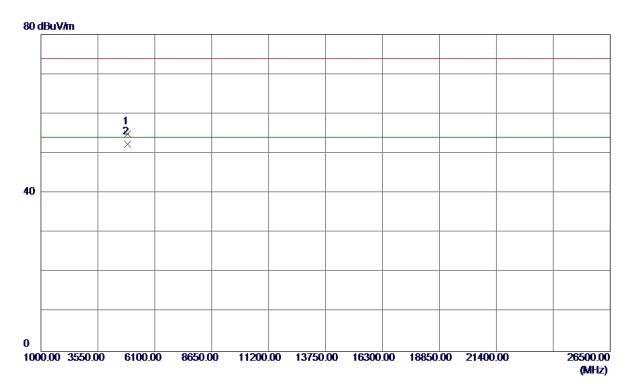
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2434.4000 | 77. 56 | 33. 22 | 110.78 | 74.00 | 36. 78 | Peak | No Limit |
| 2 * | 2435. 8000 | 69. 10 | 33. 23 | 102. 33 | 54.00 | 48. 33 | AVG | No Limit |

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Vertical



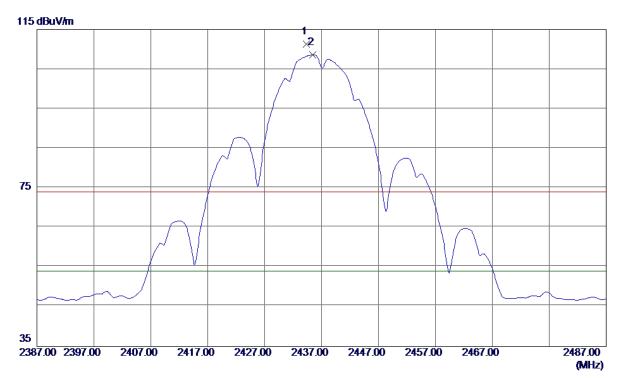
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4873.9620 | 48. 48 | 6.44 | 54.92 | 74.00 | -19.08 | Peak | |
| 2 * | 4874.0520 | 45. 95 | 6. 44 | 52. 39 | 54.00 | -1.61 | AVG | |

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Horizontal



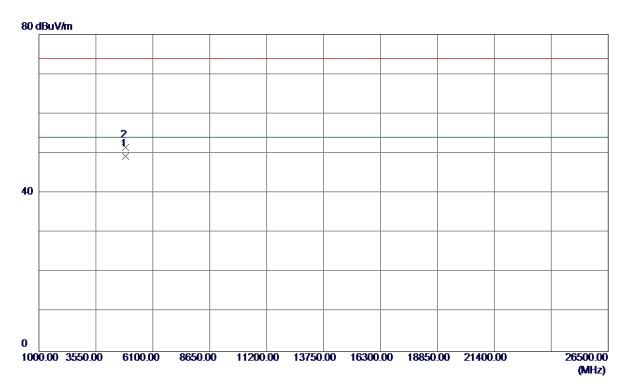
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2434.3000 | 78. 11 | 33. 22 | 111. 33 | 74.00 | 37. 33 | Peak | No Limit |
| 2 * | 2435. 4000 | 75. 35 | 33. 23 | 108. 58 | 54.00 | 54. 58 | AVG | No Limit |

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Horizontal



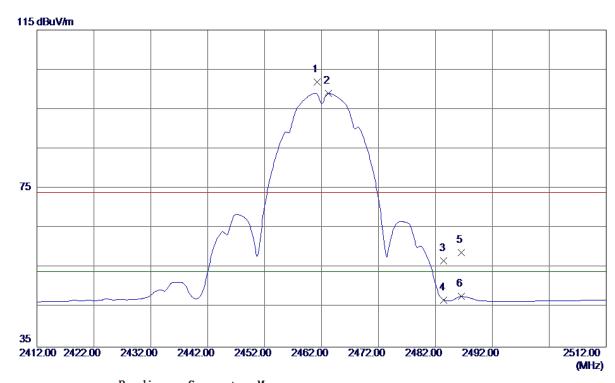
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4874.0120 | 42.77 | 6. 44 | 49. 21 | 54.00 | -4.79 | AVG | |
| 2 | 4874. 0200 | 45. 15 | 6.44 | 51. 59 | 74.00 | -22.41 | Peak | |

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Vertical



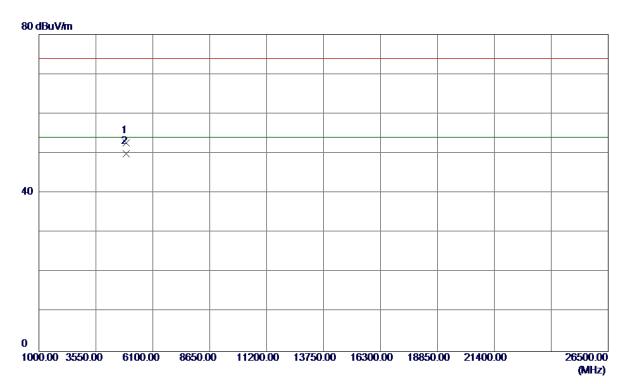
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2461. 2000 | 68. 57 | 33. 32 | 101.89 | 74.00 | 27.89 | Peak | No Limit |
| 2 * | 2463. 2000 | 65.74 | 33. 33 | 99. 07 | 54.00 | 45.07 | AVG | No Limit |
| 3 | 2483. 5000 | 23. 28 | 33.41 | 56. 69 | 74.00 | -17.31 | Peak | |
| 4 | 2483. 5000 | 13. 48 | 33. 41 | 46. 89 | 54.00 | -7. 11 | AVG | |
| 5 | 2486.6000 | 25. 37 | 33. 42 | 58. 79 | 74.00 | -15. 21 | Peak | |
| 6 | 2486. 6000 | 14. 34 | 33. 42 | 47.76 | 54.00 | -6. 24 | AVG | |
| | | | | | | | | |

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Vertical



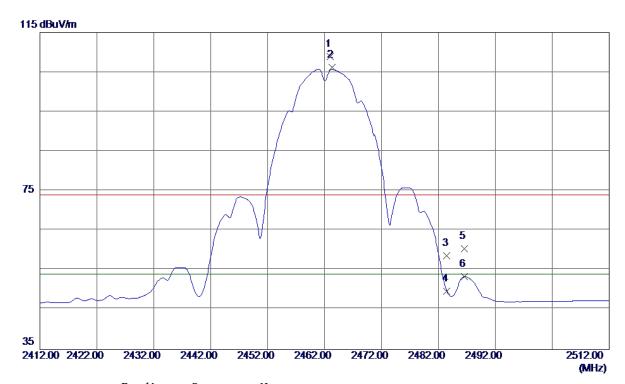
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4923. 9480 | 46. 09 | 6. 57 | 52. 66 | 74.00 | -21. 34 | Peak | |
| 2 * | 4923. 9840 | 43. 40 | 6. 57 | 49. 97 | 54.00 | -4.03 | AVG | |

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Horizontal



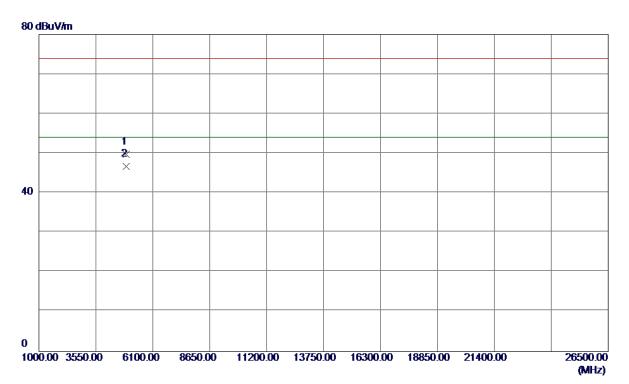
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2463.0000 | 75. 61 | 33. 33 | 108.94 | 74.00 | 34.94 | Peak | No Limit |
| 2 * | 2463. 3000 | 72.83 | 33. 33 | 106. 16 | 54.00 | 52. 16 | AVG | No Limit |
| 3 | 2483. 5000 | 25. 32 | 33.41 | 58. 73 | 74.00 | -15. 27 | Peak | |
| 4 | 2483. 5000 | 16. 29 | 33.41 | 49.70 | 54.00 | -4.30 | AVG | |
| 5 | 2486.6000 | 27.02 | 33. 42 | 60.44 | 74.00 | -13. 56 | Peak | |
| 6 | 2486. 6000 | 19. 99 | 33. 42 | 53. 41 | 54.00 | -0. 59 | AVG | |

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Horizontal



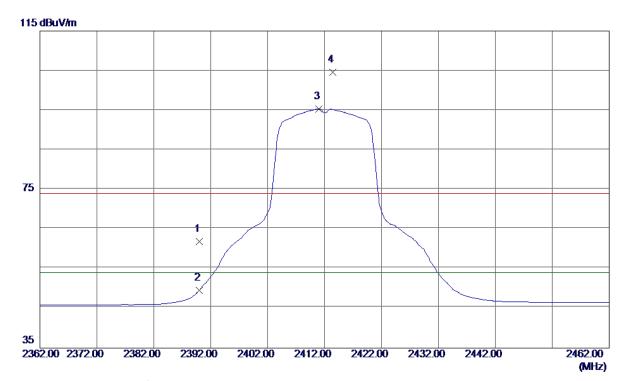
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4923.9760 | 43. 15 | 6. 57 | 49.72 | 74.00 | -24.28 | Peak | |
| 2 * | 4923. 9980 | 40. 11 | 6. 57 | 46.68 | 54.00 | -7. 32 | AVG | |

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Vertical



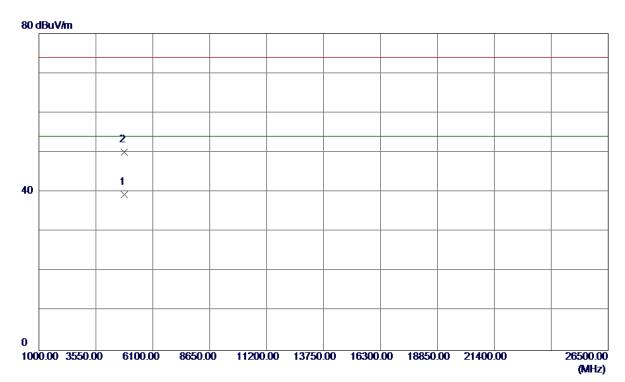
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 28. 89 | 33.06 | 61.95 | 74.00 | -12.05 | Peak | |
| 2 | 2390.0000 | 16. 57 | 33.06 | 49.63 | 54.00 | -4.37 | AVG | |
| 3 * | 2411.0000 | 62. 25 | 33. 14 | 95. 39 | 54.00 | 41.39 | AVG | No Limit |
| 4 | 2413. 4000 | 71. 52 | 33. 14 | 104.66 | 74.00 | 30.66 | Peak | No Limit |

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Vertical



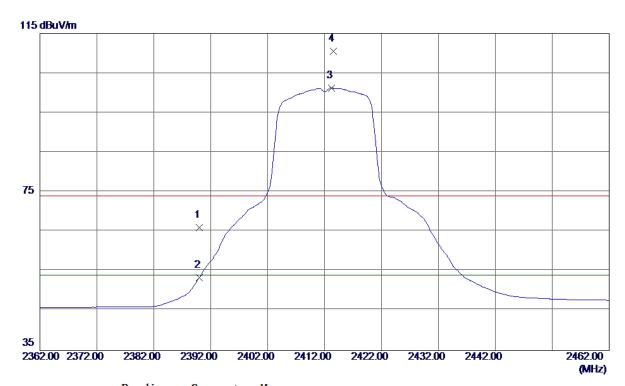
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4821.8600 | 33. 12 | 6. 31 | 39. 43 | 54.00 | -14.57 | AVG | |
| 2 | 4822. 3700 | 43.82 | 6. 31 | 50. 13 | 74.00 | -23.87 | Peak | |

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Horizontal



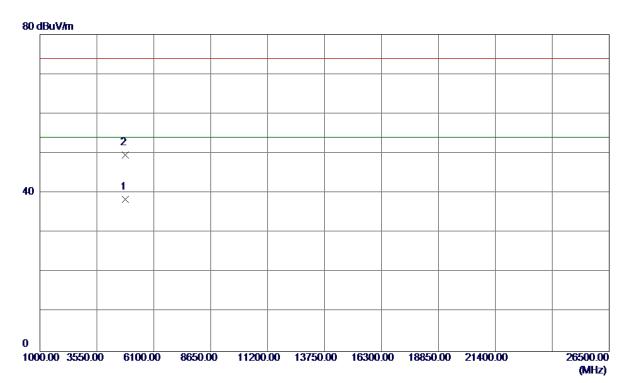
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 32. 95 | 33. 06 | 66. 01 | 74.00 | -7. 99 | Peak | |
| 2 | 2390.0000 | 20. 35 | 33. 06 | 53.41 | 54.00 | -0. 59 | AVG | |
| 3 * | 2413. 2000 | 68. 10 | 33. 14 | 101. 24 | 54.00 | 47.24 | AVG | No Limit |
| 4 | 2413.6000 | 77.44 | 33. 15 | 110. 59 | 74.00 | 36. 59 | Peak | No Limit |
| | | | | | | | | |

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Horizontal



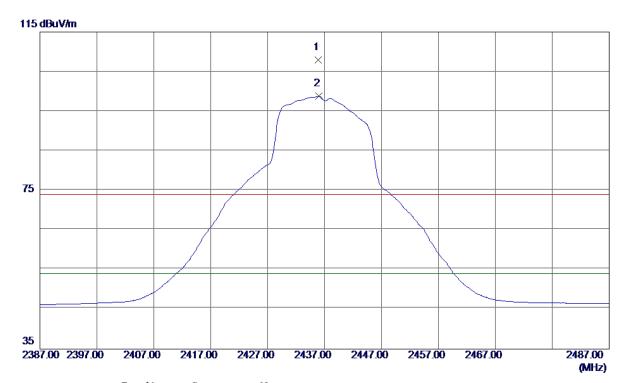
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4821.9900 | 32. 14 | 6. 31 | 38. 45 | 54.00 | -15. 55 | AVG | |
| 2 | 4822. 1500 | 43. 33 | 6. 31 | 49. 64 | 74.00 | -24. 36 | Peak | |

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Vertical



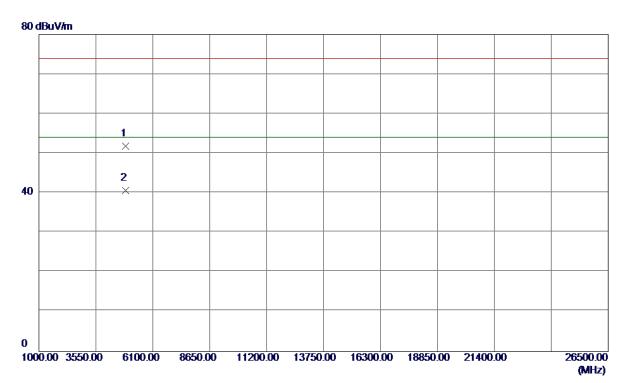
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2435. 9000 | 74.71 | 33. 23 | 107.94 | 74.00 | 33. 94 | Peak | No Limit |
| 2 * | 2436.0000 | 65. 53 | 33. 23 | 98. 76 | 54.00 | 44.76 | AVG | No Limit |

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Vertical



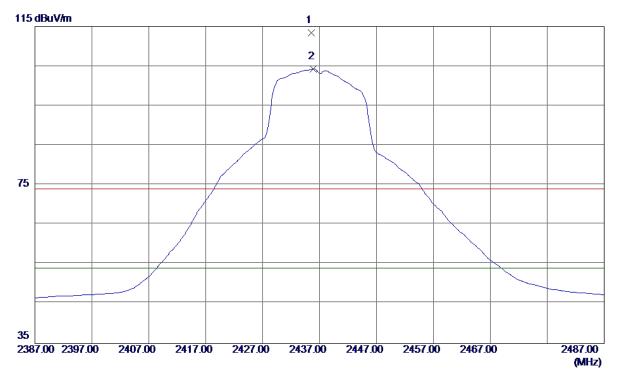
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4872. 3150 | 45. 47 | 6.44 | 51.91 | 74.00 | -22.09 | Peak | |
| 2 * | 4875. 3000 | 34. 16 | 6. 45 | 40.61 | 54.00 | -13. 39 | AVG | |

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Horizontal



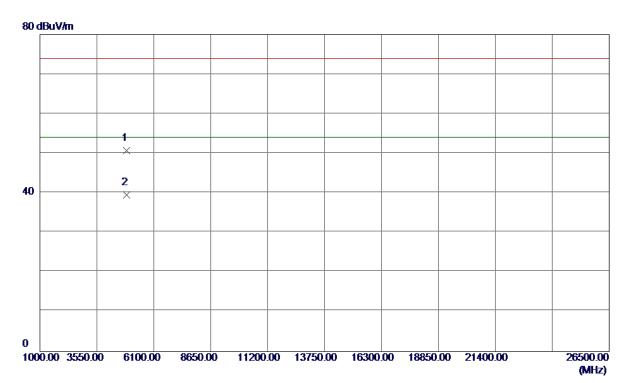
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2435. 5000 | 80. 18 | 33. 23 | 113.41 | 74.00 | 39.41 | Peak | No Limit |
| 2 * | 2435. 9000 | 71.04 | 33. 23 | 104. 27 | 54.00 | 50. 27 | AVG | No Limit |

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Horizontal



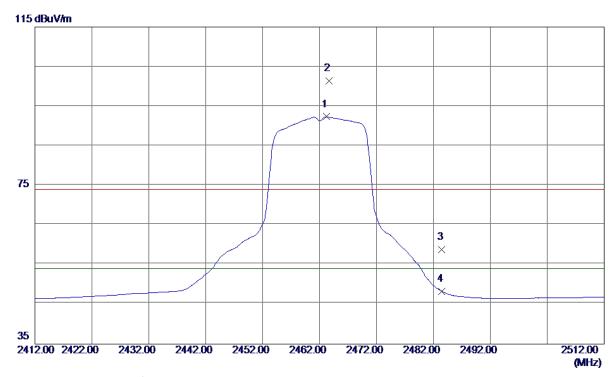
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4872. 2900 | 44. 32 | 6.44 | 50.76 | 74.00 | -23. 24 | Peak | |
| 2 * | 4875. 0200 | 33. 06 | 6. 44 | 39. 50 | 54.00 | -14.50 | AVG | |

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Vertical



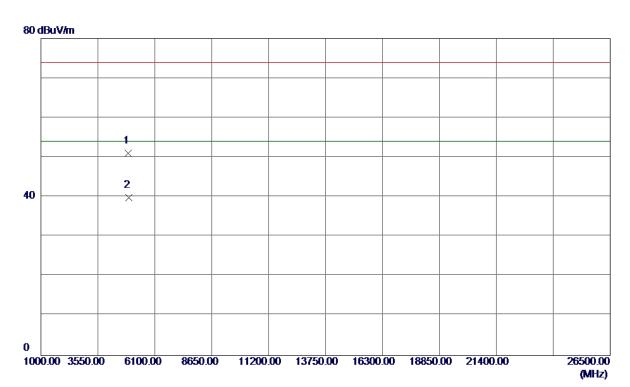
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2463. 2000 | 59. 03 | 33. 33 | 92. 36 | 54.00 | 38. 36 | AVG | No Limit |
| 2 | 2463.7000 | 68. 04 | 33. 33 | 101. 37 | 74.00 | 27. 37 | Peak | No Limit |
| 3 | 2483. 5000 | 25. 47 | 33.41 | 58.88 | 74.00 | -15. 12 | Peak | |
| 4 | 2483. 5000 | 14.89 | 33. 41 | 48. 30 | 54.00 | -5. 70 | AVG | |

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Vertical



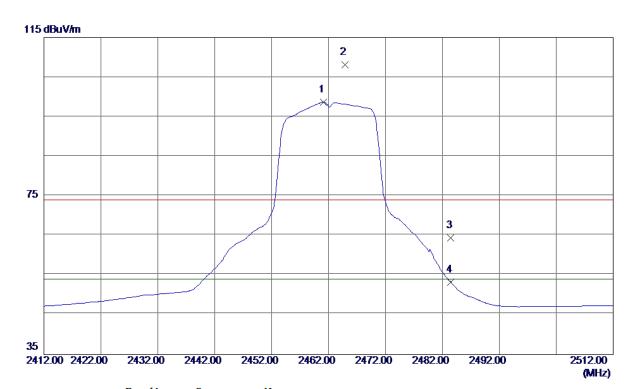
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4922. 3700 | 44.42 | 6. 56 | 50. 98 | 74.00 | -23.02 | Peak | |
| 2 * | 4926. 2799 | 33. 25 | 6. 57 | 39.82 | 54.00 | -14. 18 | AVG | |

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Horizontal



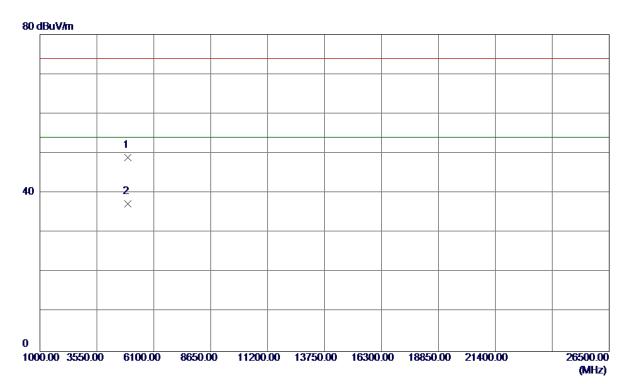
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2461. 1000 | 65. 42 | 33. 32 | 98.74 | 54.00 | 44.74 | AVG | No Limit |
| 2 | 2464.9000 | 74.74 | 33. 34 | 108.08 | 74.00 | 34.08 | Peak | No Limit |
| 3 | 2483. 5000 | 31. 04 | 33.41 | 64.45 | 74.00 | -9. 55 | Peak | |
| 4 | 2483. 5000 | 19. 79 | 33.41 | 53. 20 | 54.00 | -0.80 | AVG | |
| | | | | | | | | |

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Horizontal



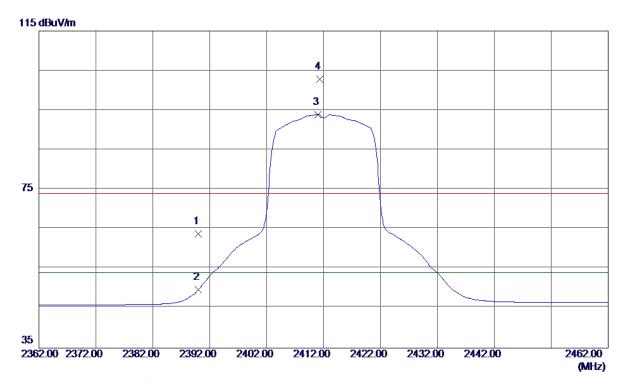
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4925. 7900 | 42.46 | 6. 57 | 49.03 | 74.00 | -24.97 | Peak | |
| 2 * | 4926. 0450 | 30.66 | 6. 57 | 37. 23 | 54.00 | -16.77 | AVG | |

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Vertical



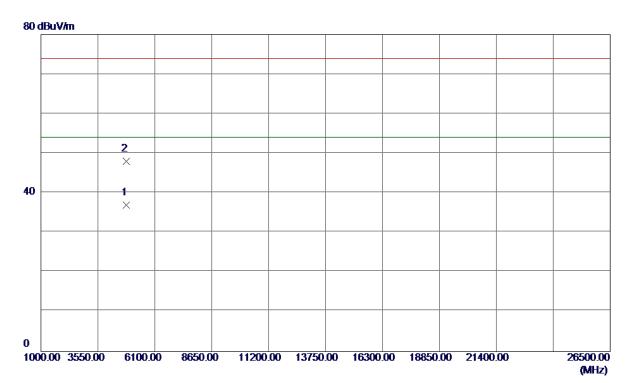
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 30. 79 | 33.06 | 63.85 | 74.00 | -10. 15 | Peak | |
| 2 | 2390.0000 | 16. 67 | 33.06 | 49.73 | 54.00 | -4.27 | AVG | |
| 3 * | 2411.0000 | 60.79 | 33. 14 | 93. 93 | 54.00 | 39. 93 | AVG | No Limit |
| 4 | 2411. 3000 | 69. 66 | 33. 14 | 102.80 | 74.00 | 28.80 | Peak | No Limit |

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Vertical



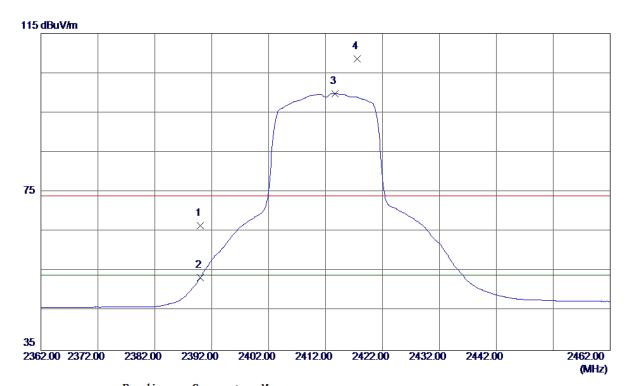
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4822.4600 | 30.72 | 6. 31 | 37.03 | 54.00 | -16.97 | AVG | |
| 2 | 4824. 5800 | 41.69 | 6. 32 | 48. 01 | 74.00 | -25. 99 | Peak | |

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Horizontal



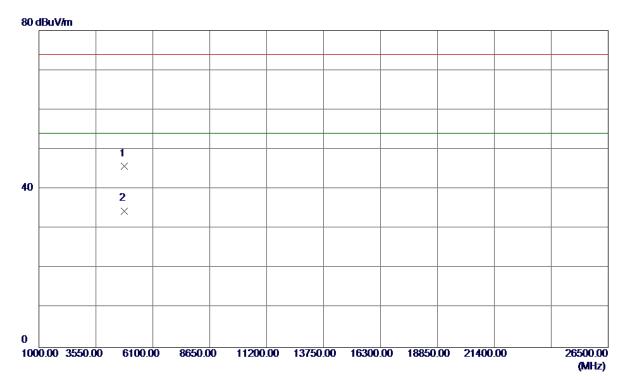
| MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 1 2390.0000 33.43 33.06 66.49 74.00 -7.51 Peak 2 2390.0000 20.36 33.06 53.42 54.00 -0.58 AVG 3 * 2413.7000 66.67 33.15 99.82 54.00 45.82 AVG No Limit | No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|-----|-----------|------------------|-------------------|-----------------|--------|---------------|----------|----------|
| 2 2390.0000 20.36 33.06 53.42 54.00 -0.58 AVG 3 * 2413.7000 66.67 33.15 99.82 54.00 45.82 AVG No Limit | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 3 * 2413.7000 66.67 33.15 99.82 54.00 45.82 AVG No Limit | 1 | 2390.0000 | 33. 43 | 33. 06 | 66. 49 | 74.00 | -7.51 | Peak | |
| | 2 | 2390.0000 | 20. 36 | 33. 06 | 53. 42 | 54.00 | -0. 58 | AVG | |
| | 3 * | 2413.7000 | 66. 67 | 33. 15 | 99. 82 | 54.00 | 45.82 | AVG | No Limit |
| 4 2417.6000 75.37 33.16 108.53 74.00 34.53 Peak No Limit | 4 | 2417.6000 | 75. 37 | 33. 16 | 108. 53 | 74.00 | 34. 53 | Peak | No Limit |

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Horizontal



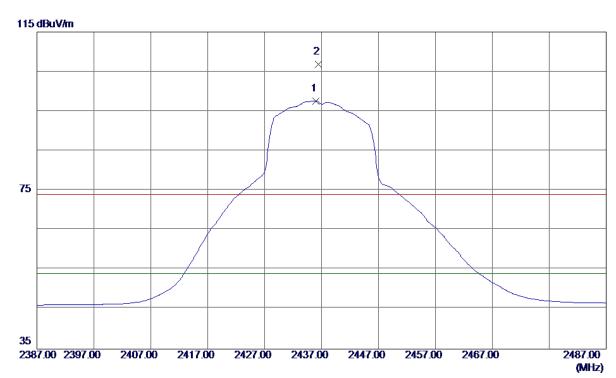
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4821. 1800 | 39. 40 | 6. 31 | 45.71 | 74.00 | -28.29 | Peak | |
| 2 * | 4823.8600 | 28. 16 | 6. 32 | 34.48 | 54.00 | -19. 52 | AVG | |

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Vertical



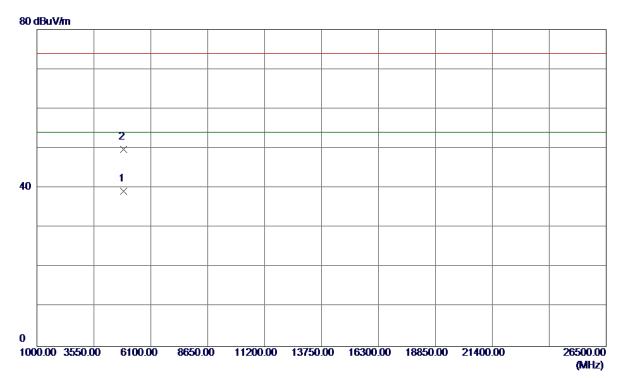
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2436. 0000 | 64. 37 | 33. 23 | 97. 60 | 54.00 | 43.60 | AVG | No Limit |
| 2 | 2436. 4000 | 73. 56 | 33. 23 | 106. 79 | 74. 00 | 32. 79 | Peak | No Limit |

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Vertical



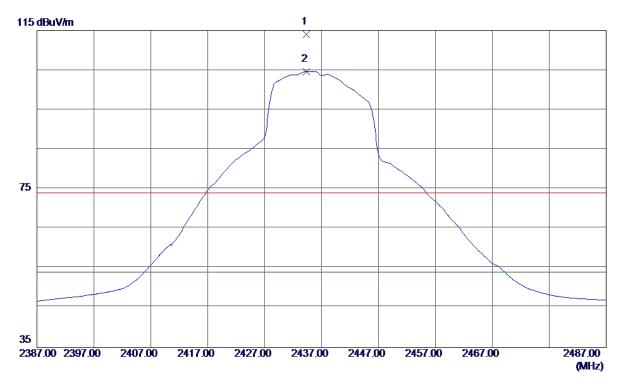
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4873.8200 | 32.72 | 6.44 | 39. 16 | 54.00 | -14.84 | AVG | |
| 2 | 4874. 4000 | 43. 29 | 6. 44 | 49. 73 | 74.00 | -24. 27 | Peak | |

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Horizontal



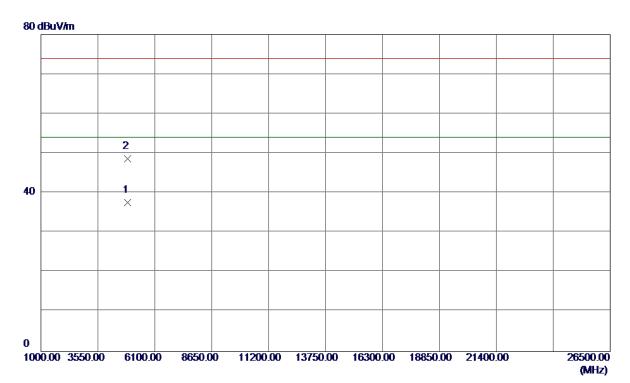
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2434.3000 | 80.82 | 33. 22 | 114.04 | 74.00 | 40.04 | Peak | No Limit |
| 2 * | 2434. 3000 | 71.44 | 33. 22 | 104.66 | 54.00 | 50.66 | AVG | No Limit |

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Horizontal



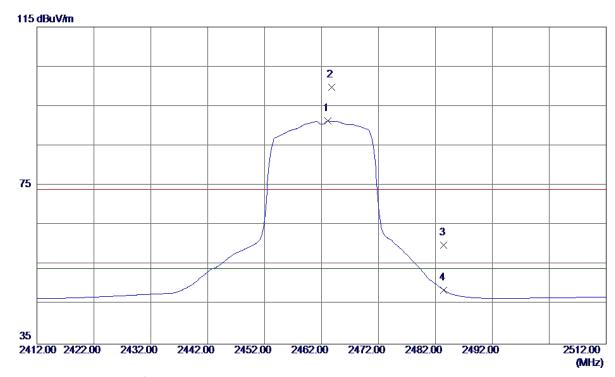
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4874. 1800 | 31. 16 | 6.44 | 37.60 | 54.00 | -16. 40 | AVG | |
| 2 | 4874. 3600 | 42. 25 | 6. 44 | 48. 69 | 74.00 | -25. 31 | Peak | |

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Vertical



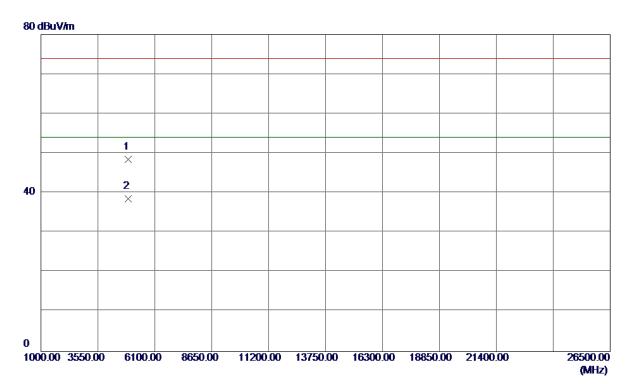
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2463. 1000 | 57. 92 | 33. 33 | 91. 25 | 54.00 | 37. 25 | AVG | No Limit |
| 2 | 2463.8000 | 66. 41 | 33. 33 | 99.74 | 74.00 | 25.74 | Peak | No Limit |
| 3 | 2483. 5000 | 26. 50 | 33.41 | 59. 91 | 74.00 | -14.09 | Peak | |
| 4 | 2483. 5000 | 15. 21 | 33. 41 | 48.62 | 54.00 | -5. 38 | AVG | |

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Vertical



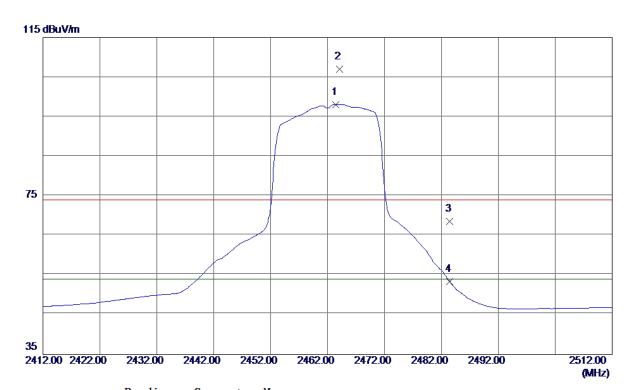
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4921.7240 | 41.92 | 6. 56 | 48.48 | 74.00 | -25.52 | Peak | |
| 2 * | 4922. 0440 | 31. 95 | 6. 56 | 38. 51 | 54.00 | -15. 49 | AVG | |

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Horizontal



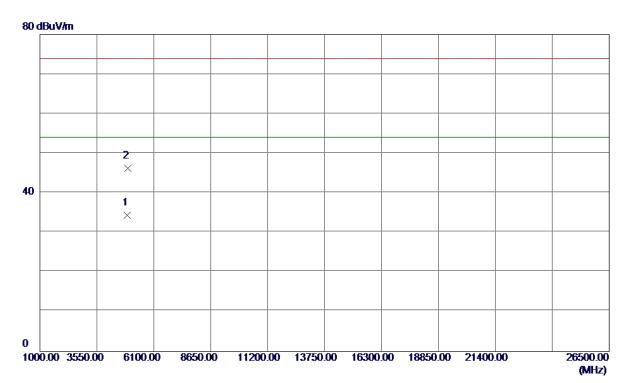
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2463. 5000 | 64.77 | 33. 33 | 98. 10 | 54.00 | 44.10 | AVG | No Limit |
| 2 | 2464. 1000 | 73.64 | 33. 33 | 106. 97 | 74.00 | 32. 97 | Peak | No Limit |
| 3 | 2483. 5000 | 35. 18 | 33. 41 | 68. 59 | 74.00 | -5.41 | Peak | |
| 4 | 2483. 5000 | 20. 02 | 33. 41 | 53. 43 | 54.00 | -0. 57 | AVG | |
| | | | | | | | | |

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Horizontal



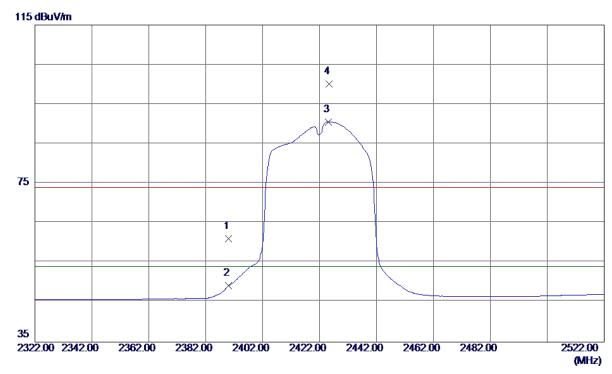
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4922. 3840 | 27.89 | 6. 56 | 34.45 | 54.00 | -19. 55 | AVG | |
| 2 | 4924. 8840 | 39. 74 | 6. 57 | 46. 31 | 74.00 | -27.69 | Peak | |

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Vertical



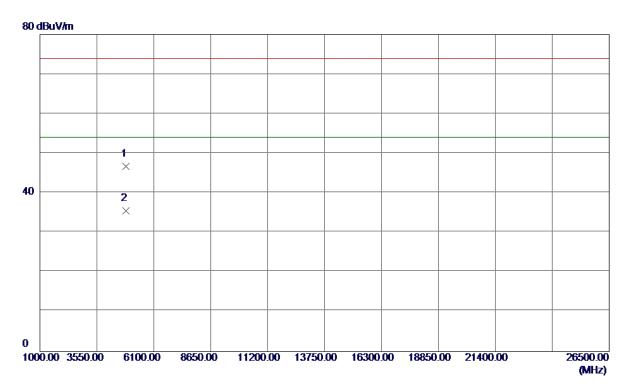
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 27.96 | 33.06 | 61.02 | 74.00 | -12. 98 | Peak | |
| 2 | 2390.0000 | 16. 13 | 33.06 | 49. 19 | 54.00 | -4.81 | AVG | |
| 3 * | 2425. 2000 | 57. 38 | 33. 19 | 90. 57 | 54.00 | 36. 57 | AVG | No Limit |
| 4 | 2425. 4000 | 66. 92 | 33. 19 | 100. 11 | 74.00 | 26. 11 | Peak | No Limit |

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Vertical



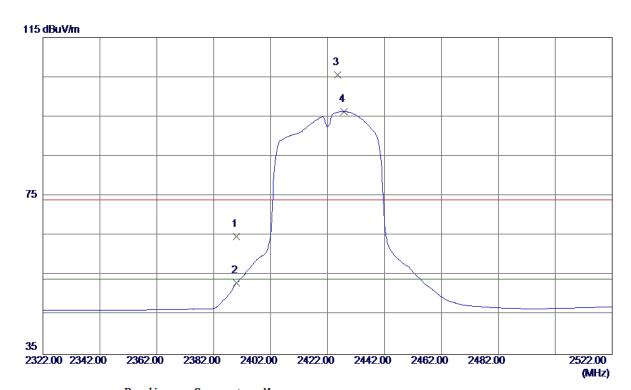
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4843.9000 | 40. 39 | 6. 37 | 46. 76 | 74.00 | -27.24 | Peak | |
| 2 * | 4844. 1050 | 29. 09 | 6. 37 | 35. 46 | 54.00 | -18. 54 | AVG | |

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Horizontal



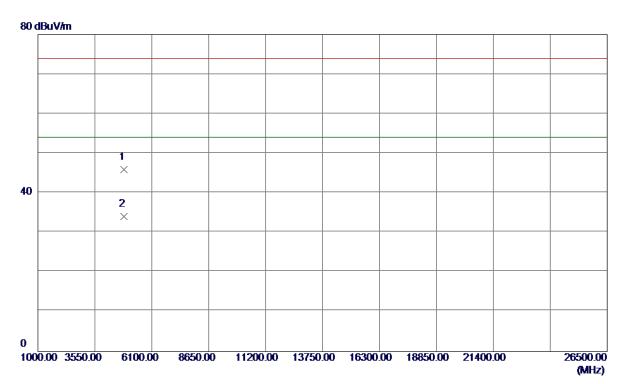
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 31.65 | 33. 06 | 64.71 | 74.00 | -9. 29 | Peak | |
| 2 | 2390.0000 | 20.04 | 33. 06 | 53. 10 | 54.00 | -0.90 | AVG | |
| 3 | 2425.6000 | 72. 35 | 33. 19 | 105. 54 | 74.00 | 31. 54 | Peak | No Limit |
| 4 * | 2427.8000 | 63. 10 | 33. 20 | 96. 30 | 54.00 | 42. 30 | AVG | No Limit |

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Horizontal



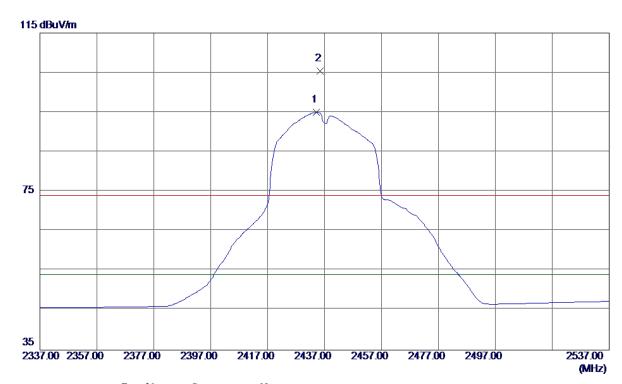
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4843. 5800 | 39. 53 | 6. 37 | 45. 90 | 74.00 | -28. 10 | Peak | |
| 2 * | 4843. 6349 | 27.71 | 6. 37 | 34.08 | 54.00 | -19.92 | AVG | |

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Vertical



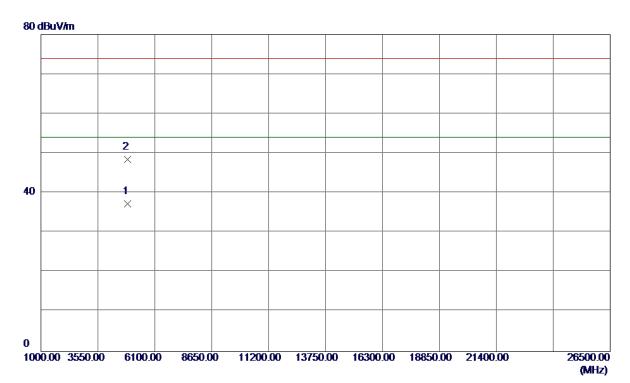
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2434. 2000 | 61.73 | 33. 22 | 94.95 | 54.00 | 40.95 | AVG | No Limit |
| 2 | 2435. 4000 | 72. 18 | 33. 23 | 105. 41 | 74.00 | 31.41 | Peak | No Limit |

Report No.: BTL-FCCP-1-1708C263





Vertical



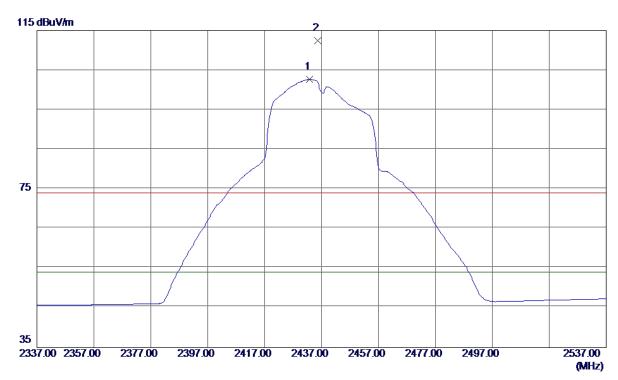
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4873.7400 | 30.90 | 6.44 | 37. 34 | 54.00 | -16.66 | AVG | |
| 2 | 4876. 6250 | 41.96 | 6. 45 | 48.41 | 74.00 | -25. 59 | Peak | |

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Horizontal



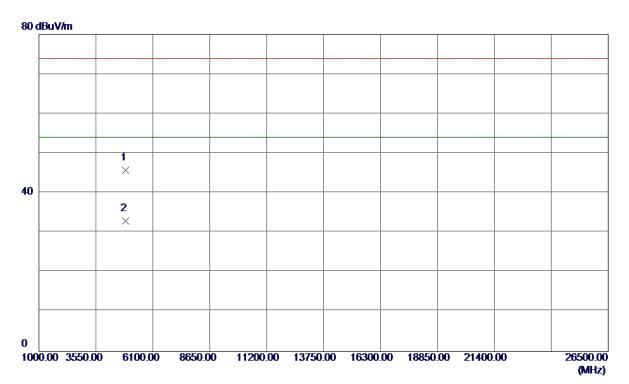
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2432.8000 | 69.45 | 33. 22 | 102.67 | 54.00 | 48.67 | AVG | No Limit |
| 2 | 2435.6000 | 79. 26 | 33. 23 | 112. 49 | 74.00 | 38. 49 | Peak | No Limit |

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Horizontal



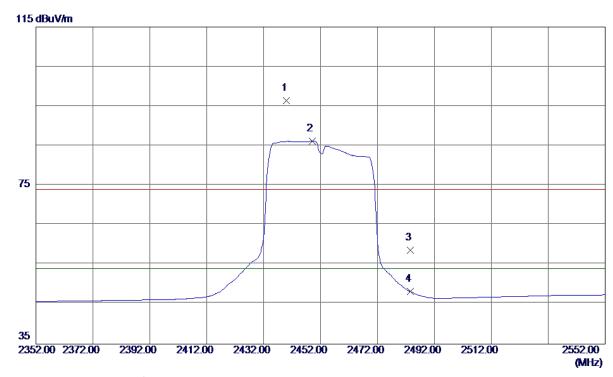
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4874.3500 | 39. 32 | 6.44 | 45. 76 | 74.00 | -28. 24 | Peak | |
| 2 * | 4874.9400 | 26. 52 | 6.44 | 32. 96 | 54.00 | -21. 04 | AVG | |

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Vertical



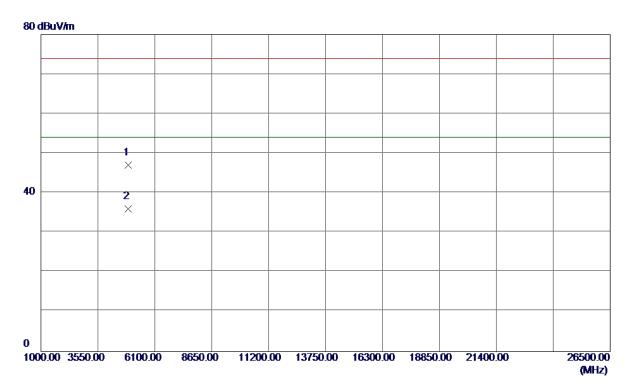
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.0000 | 63. 19 | 33. 24 | 96. 43 | 74.00 | 22.43 | Peak | No Limit |
| 2 * | 2449.0000 | 52. 91 | 33. 28 | 86. 19 | 54.00 | 32. 19 | AVG | No Limit |
| 3 | 2483. 5000 | 25. 31 | 33.41 | 58.72 | 74.00 | -15. 28 | Peak | |
| 4 | 2483. 5000 | 14.81 | 33. 41 | 48. 22 | 54.00 | -5. 78 | AVG | |

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Vertical



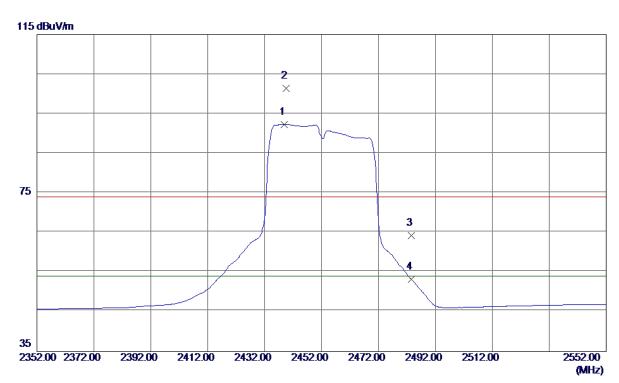
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4903.7650 | 40. 55 | 6. 52 | 47.07 | 74.00 | -26.93 | Peak | |
| 2 * | 4903. 8350 | 29. 47 | 6. 52 | 35. 99 | 54.00 | -18. 01 | AVG | |

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Horizontal



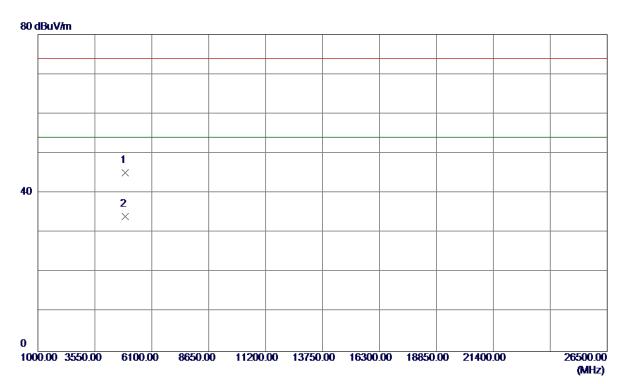
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2438.8000 | 59. 06 | 33. 24 | 92. 30 | 54.00 | 38. 30 | AVG | No Limit |
| 2 | 2439. 6000 | 68. 23 | 33. 24 | 101.47 | 74.00 | 27.47 | Peak | No Limit |
| 3 | 2483. 5000 | 30. 90 | 33.41 | 64. 31 | 74.00 | -9. 69 | Peak | |
| 4 | 2483. 5000 | 19. 80 | 33. 41 | 53. 21 | 54.00 | -0. 79 | AVG | |

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Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4902.6400 | 38. 67 | 6. 51 | 45. 18 | 74.00 | -28.82 | Peak | |
| 2 * | 4903. 6200 | 27.60 | 6. 52 | 34. 12 | 54.00 | -19.88 | AVG | |

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| APPENDIX E - BANDWIDTH |
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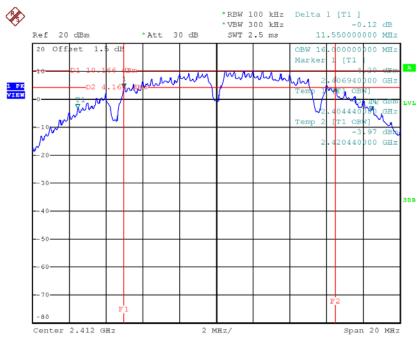




Test Mode: TX B Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 11.55 | 16.00 | 500 | Complies |
| 2437 | 11.56 | 16.36 | 500 | Complies |
| 2462 | 11.11 | 16.00 | 500 | Complies |

TX CH01

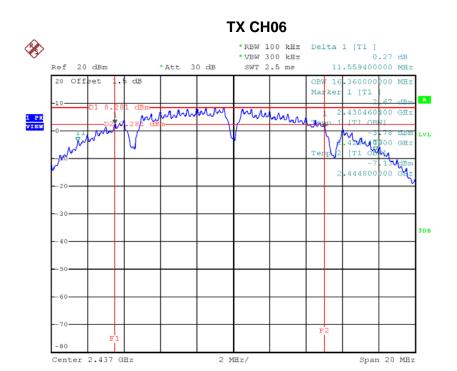


Date: 5.SEP.2017 20:34:28

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Date: 5.SEP.2017 20:37:07

Date: 5.SEP.2017 20:38:42

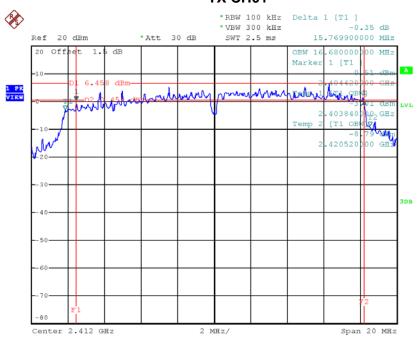




Test Mode: TX G Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 15.77 | 16.68 | 500 | Complies |
| 2437 | 14.56 | 16.96 | 500 | Complies |
| 2462 | 15.75 | 16.64 | 500 | Complies |

TX CH01

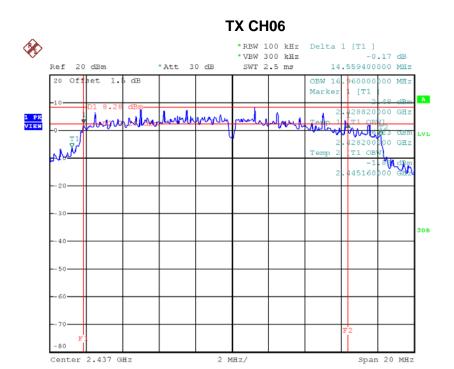


Date: 5.SEP.2017 20:41:54

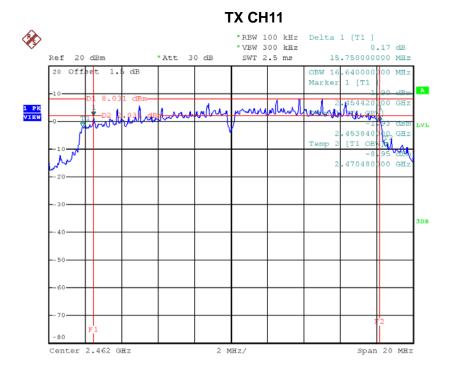
Report No.: BTL-FCCP-1-1708C263 Page 97 of 138







Date: 5.SEP.2017 20:43:16



Date: 5.SEP.2017 20:44:32

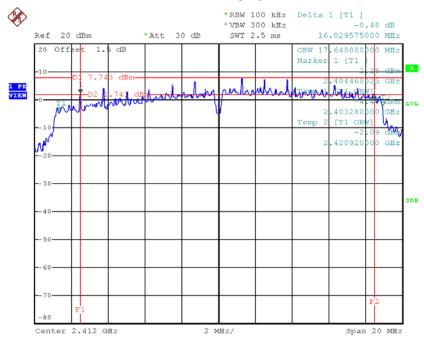




Test Mode: TX N-20MHz Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 16.03 | 17.64 | 500 | Complies |
| 2437 | 15.72 | 17.76 | 500 | Complies |
| 2462 | 16.31 | 17.68 | 500 | Complies |

TX CH01

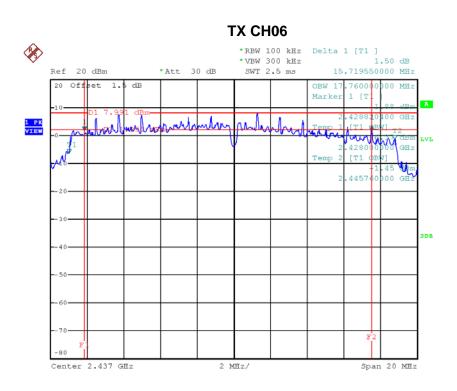


Date: 5.SEP.2017 20:59:12

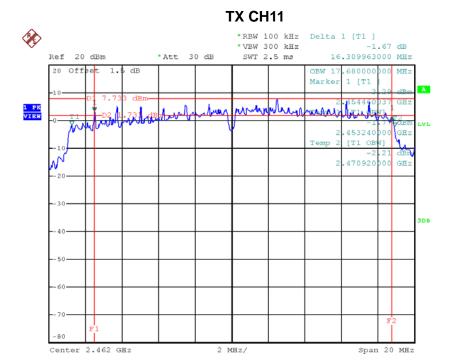
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Date: 5.SEP.2017 21:00:43



Date: 5.SEP.2017 21:01:57

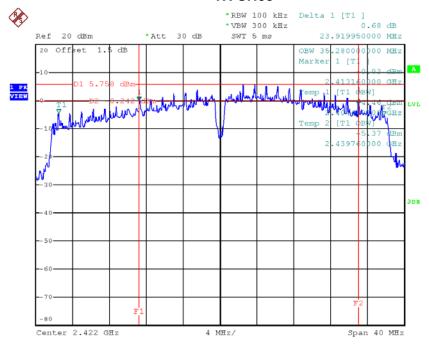




Test Mode: TX N-40MHz Mode_CH03/06/09

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2422 | 23.92 | 35.28 | 500 | Complies |
| 2437 | 26.32 | 35.76 | 500 | Complies |
| 2452 | 36.4 | 36.32 | 500 | Complies |

TX CH03

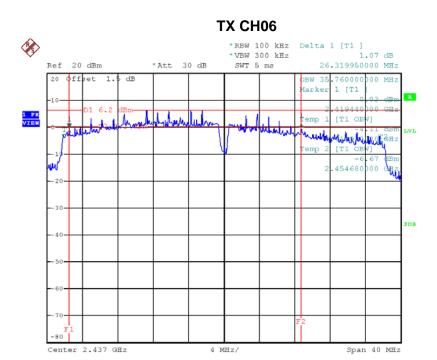


Date: 5.SEP.2017 20:52:09

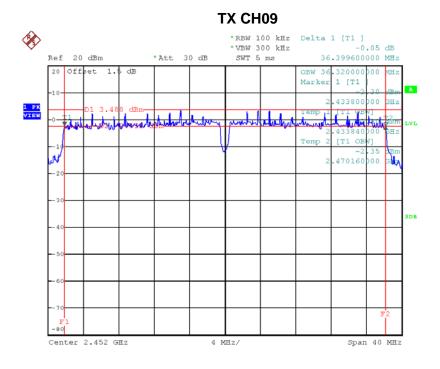
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Date: 5.SEP.2017 20:53:34



Date: 5.SEP.2017 20:54:36





| APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER | |
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| | Test Mode :TX B Mode_CH01/06/11 | | | | | |
|-----------|---------------------------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Dogult | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 19.29 | 0.08 | 30.00 | 1.00 | Complies | |
| 2437 | 22.75 | 0.19 | 30.00 | 1.00 | Complies | |
| 2462 | 19.67 | 0.09 | 30.00 | 1.00 | Complies | |

| Test Mode :TX G Mode_CH01/06/11 | | | | | |
|---------------------------------|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | |
| 2412 | 21.08 | 0.13 | 30.00 | 1.00 | Complies |
| 2437 | 22.29 | 0.17 | 30.00 | 1.00 | Complies |
| 2462 | 22.45 | 0.18 | 30.00 | 1.00 | Complies |

| Test Mode :TX N20 Mode_CH01/06/11 | | | | | |
|-----------------------------------|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Popult |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result |
| 2412 | 20.65 | 0.12 | 30.00 | 1.00 | Complies |
| 2437 | 23.22 | 0.21 | 30.00 | 1.00 | Complies |
| 2462 | 21.75 | 0.15 | 30.00 | 1.00 | Complies |

| Test Mode :TX N40 Mode_CH03/06/09 | | | | | |
|-----------------------------------|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result |
| 2422 | 19.67 | 0.09 | 30.00 | 1.00 | Complies |
| 2437 | 23.16 | 0.21 | 30.00 | 1.00 | Complies |
| 2452 | 19.44 | 0.09 | 30.00 | 1.00 | Complies |

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| APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION |
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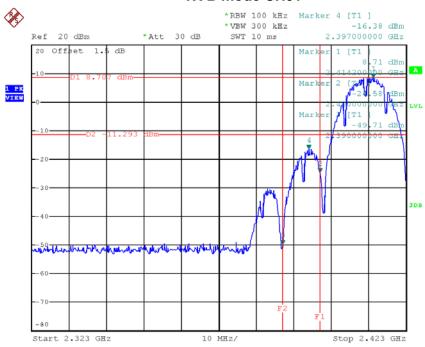
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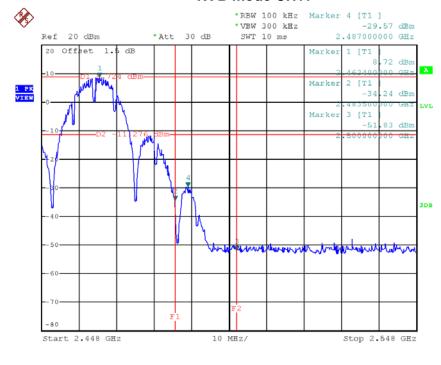






Date: 5.SEP.2017 20:35:02

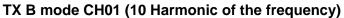
TX B mode CH11

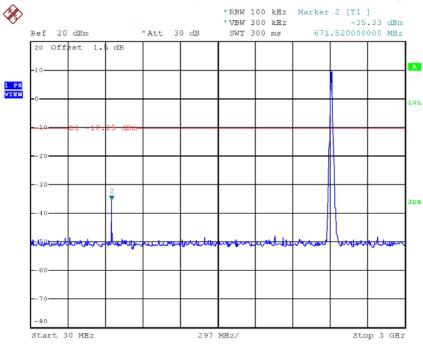


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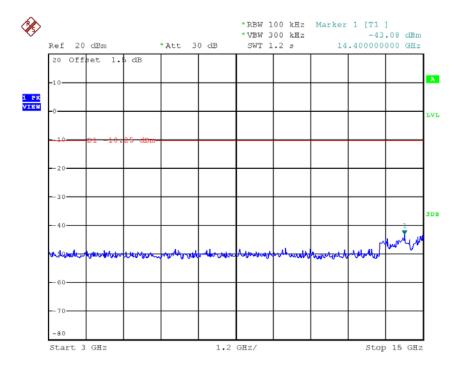








Date: 5.SEP.2017 20:34:41



Date: 5.SEP.2017 20:34:48