



FCC Radio Test Report

FCC ID: 2ADZRG240W-C

| This report concerns (ch | eck one): ⊠Original Grant |
|--------------------------|---------------------------|
| Project No. | : 1712C022 |
| Faujoment | : GPON ONLI |

: G-240W-C Series Model : N/A

Test Model

: Nokia Shanghai Bell Co., Ltd. Applicant

: No.388, Ninggiao Rd. Pilot Free Trade Zone Address

Shanghai China

Date of Receipt : Dec. 05, 2017

Date of Test : Dec. 20, 2017 ~ Mar. 04, 2018

Issued Date : Apr. 02, 2018 : BTL Inc. Tested by

Testing Engineer

Technical Manager

Authorized Signatory

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Declaration

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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. | Version | Description | Issued Date |
|---------------------|---------|--|---------------|
| BTL-FCCP-1-1712C022 | Rev.01 | Original Issue. | Mar. 29, 2018 |
| BTL-FCCP-1-1712C022 | Rev.02 | The information of applicant and manufacturer are changed. | Apr. 02, 2018 |

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1. CERTIFICATION

Equipment : GPON ONU

Brand Name: Nokia Test Model: G-240W-C

Series Model: N/A

Applicant : Nokia Shanghai Bell Co., Ltd. Manufacturer : Nokia Shanghai Bell Co., Ltd.

Address : No.388, Ningqiao Rd. Pilot Free Trade Zone Shanghai China

Factory : 1# Shenzhen Gongjin Electronics Co.,Ltd

2# Taicang T&W Electronics Co.,Ltd

Address : 1# No 2&3 Buildings, Mingwei Factory Area, Songgang Road West, No. A

Building, 1#Songgang Road Songgang Sub-District, Shenzhen, Guangdong,

518105,P.R.China

2# Jiangnan Road 89, Ludu Town, Taicang, Suzhou, Jiangsu,

215412, P.R. China

Date of Test : Dec. 20, 2017 ~ Mar. 04, 2018

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-1-1712C022) 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 | | |

NOTE:

(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

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

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 C | | 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 | GPON ONU | | |
|---------------------|---|--|--|
| Brand Name | Nokia | | |
| Test Model | G-240W-C | | |
| 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 300 Mbps | |
| | Output Power (Max.) | 802.11b: 21.93 dBm 802.11g: 29.45 dBm 802.11n(20MHz):28.98 dBm 802.11n(40MHz):28.95 dBm | |
| Power Source | DC voltage supplied from AC/DC adapter. 1# Manufacturer / Model: Shenzhen SOY Technology Co.,Ltd / SOY-1200300US 2# Manufacturer / Model: Shenzhen SOY Technology Co.,Ltd / SUN-1200300 3# Manufacturer / Model: Mass Power Electronics Co.,Ltd / NBS40C120300M2 | | |
| Power Rating | 1# I/P: 100-240V~ 50/60Hz 0.9A Max O/P: 12V 3.0A 2# I/P: 100-240V~ 50/60Hz 1.2A Max O/P: 12V 3.0A 3# I/P: 100-240V~ 50/60Hz 1.0A O/P: 12V 3.0A | | |

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 | 8 - CH09 for | 802.11n(40 | MHz) | | |
| 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 | | |

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3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | PCB | IPEX | 2.1 |
| 2 | N/A | N/A | PCB | IPEX | 2.1 |

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain=2.1.

4.

| Operating Mode | | |
|----------------|-----------|-----------------|
| TVM-d- | 1TX | 2TX |
| TX Mode | | |
| 802.11b | V (ANT 1) | - |
| 802.11g | - | V (ANT 1+ANT 2) |
| 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 | Normal Link |

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 | Normal Link | |

| 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 (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%.

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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

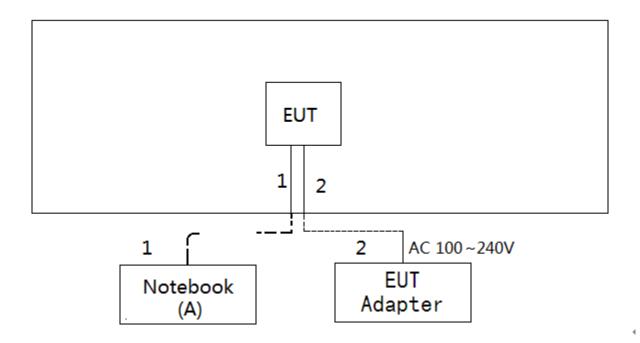
| Test software version | accessMTool_REL_3_0_0_1 | | |
|-----------------------|-------------------------|------|------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| 802.11b | 64 | 64 | 64 |
| 802.11g | 50 | 51 | 51 |
| 802.11n (20MHz) | 51 | 51 | 51 |
| Frequency (MHz) | 2422 | 2437 | 2452 |
| 802.11n (40MHz) | 51 | 52 | 52 |

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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. |
|------|-----------|-----------|----------------|--------|--------------|
| Α | Notebook | DELL | INSPIRON 1420 | DOC | JX193A01SDC2 |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------------|
| 1 | NO | NO | 10m | RJ45 Cable |
| 2 | NO | NO | 1.2m | DC 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

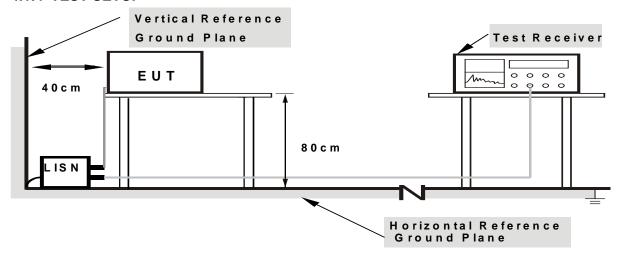
No deviation

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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) | | |
|-----------------|------------------------|---------|--|
| | 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

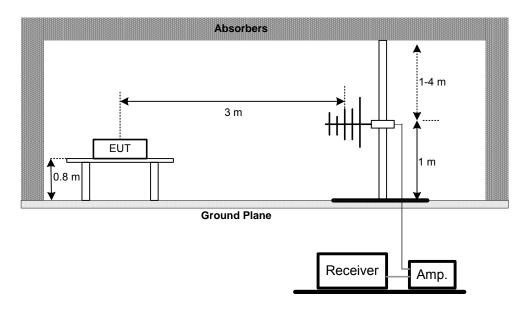
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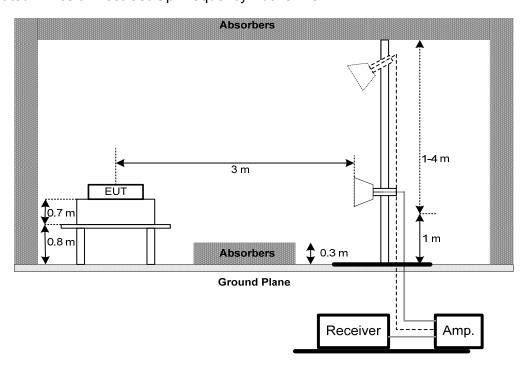


4.2.4 TEST SETUP

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



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

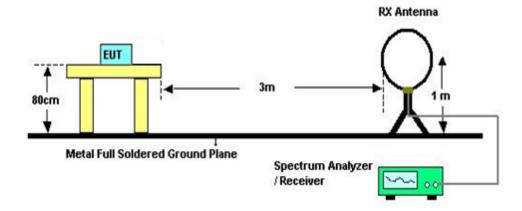


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(C) For Radiated Emissions Below 30MHz



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) 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

| 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 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

| EUT | Power Meter |
|-----|--------------|
| | 1 Ower weter |

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

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

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 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | |
| 6 | Cable | N/A | RG223 | 12m | Oct. 19, 2018 | |

| | 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. 19, 2018 | | |
| 3 | Receiver | Agilent | N9038A | MY52130039 | Aug. 20, 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 | Antenna | EM | EM-6876-1 | 230 | Mar. 06, 2018 | | |

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| | Radiated Emission Above 1GHz | | | | | | | | | |
|------|---|-------------------|-----------------------------|---------------|---------------|--|--|--|--|--|
| Item | Kind of Equipment | 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. 20, 2018 | | | | | |
| 6 | Antenna | EM | EM-6876-1 | 230 | Mar. 06, 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 | | | | | |

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| | 6dB Bandwidth | | | | | | | | | |
|------|-------------------|--------------|----------|------------|------------------|--|--|--|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 20, 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 | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 20, 2018 | | | |

| Power Spectral Density | | | | | | | | |
|------------------------|-------------------|--------------|----------|------------|------------------|--|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 20, 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





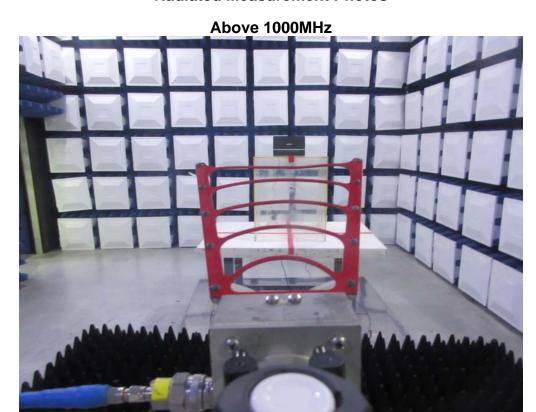


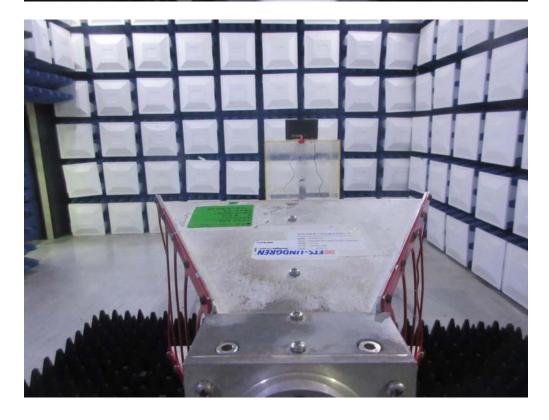
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Radiated Measurement Photos





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| APPENDIX | A - | CONDUCTED | EMISSION |
|-----------------|------------|-----------|-----------------|
|-----------------|------------|-----------|-----------------|

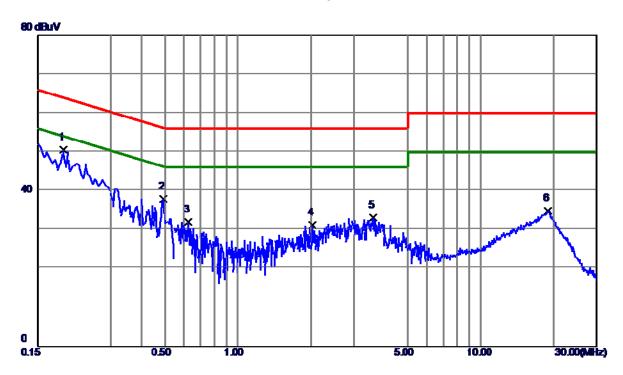
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Test Mode : Normal Link_ Adapter: SUN-1200300

Line



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|---------------|---------|----------|---------|
| | MHz | dBuV | dΒ | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0. 1905 | 40.83 | 9. 70 | 50. 53 | 64.01 | -13. 48 | Peak | |
| 2 | 0.4920 | 28. 15 | 9.71 | 37.86 | 56. 13 | -18. 27 | Peak | |
| 3 | 0.6225 | 22. 26 | 9. 71 | 31.97 | 56. 00 | -24. 03 | Peak | |
| 4 | 2.0264 | 21.54 | 9.71 | 31.25 | 56. 00 | -24.75 | Peak | |
| 5 | 3.6015 | 23.45 | 9.73 | 33. 18 | 56.00 | -22. 82 | Peak | |
| 6 | 18.8564 | 24.88 | 9. 96 | 34.84 | 60.00 | -25. 16 | Peak | |
| | | | | | | | | |

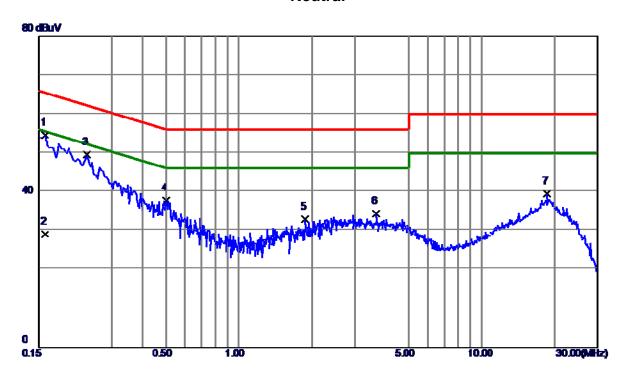
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Test Mode : Normal Link_ Adapter: SUN-1200300

Neutral



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|----------------|---------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0. 1590 | 44. 93 | 9. 61 | 54.54 | 6 5. 52 | -10. 98 | Peak | |
| 2 | 0. 1590 | 19. 50 | 9. 61 | 29.11 | 55. 52 | -26. 41 | AVG | |
| 3 | 0. 2355 | 39. 96 | 9. 61 | 49.57 | 62.25 | -12. 68 | Peak | |
| 4 | 0.5010 | 28. 08 | 9. 61 | 37.69 | 56. 00 | -18. 31 | Peak | |
| 5 | 1.8735 | 23. 31 | 9.63 | 32.94 | 56. 00 | -23. 06 | Peak | |
| 6 | 3.6780 | 24. 69 | 9. 65 | 34.34 | 56. 00 | -21. 66 | Peak | |
| 7 | 18.5550 | 29. 43 | 10.04 | 39.47 | 60.00 | -20. 53 | Peak | |

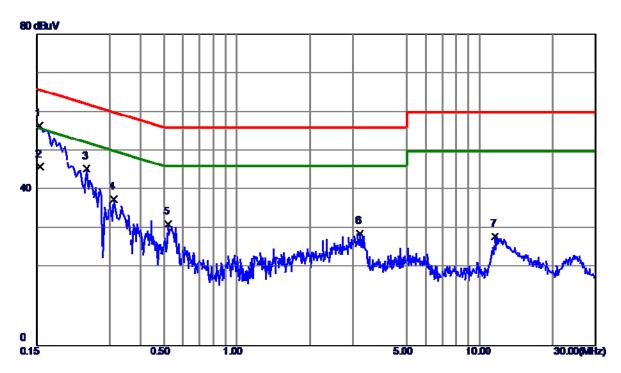
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Test Mode : Normal Link_Adapter: NBS40C120300M2

Line



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|----------------|---------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0. 1532 | 46. 67 | 9. 75 | 56.42 | 6 5. 82 | -9.40 | Peak | |
| 2 | 0.1548 | 36. 21 | 9. 75 | 45.96 | 55.74 | -9.78 | AVG | |
| 3 | 0.2400 | 35.65 | 9. 72 | 45.37 | 62. 10 | -16. 73 | Peak | |
| 4 | 0.3120 | 27.87 | 9. 72 | 37.59 | 59. 92 | -22. 33 | Peak | |
| 5 | 0.5190 | 21.50 | 9. 76 | 31.26 | 56.00 | -24.74 | Peak | |
| 6 | 3. 1965 | 18. 90 | 9.86 | 28.76 | 56. 00 | -27. 24 | Peak | |
| 7 | 11.5755 | 17.87 | 10. 15 | 28.02 | 60.00 | -31. 98 | Peak | |

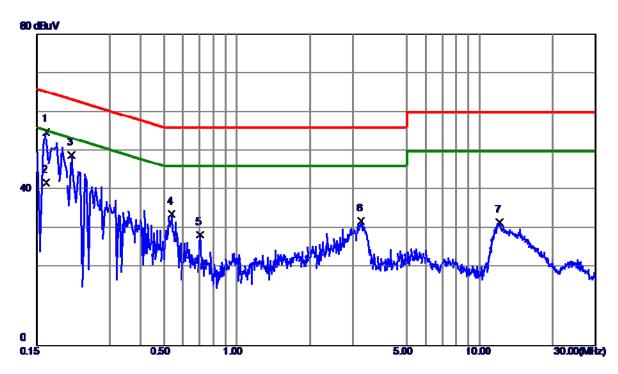
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Test Mode : Normal Link_Adapter: NBS40C120300M2

Neutral



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-------------------------|------------------|-------------------|-----------------|----------------|---------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0. 1635 | 45. 32 | 9. 64 | 54.96 | 6 5. 28 | -10. 32 | Peak | |
| 2 | 0. 1635 | 32. 24 | 9.64 | 41.88 | 55. 28 | -13. 40 | AVG | |
| 3 | 0. 2 08 5 | 39. 30 | 9.65 | 48.95 | 63. 26 | -14. 31 | Peak | |
| 4 | 0.5370 | 24. 13 | 9. 66 | 33.79 | 56. 00 | -22. 21 | Peak | |
| 5 | 0.7035 | 18. 87 | 9. 67 | 28.54 | 56. 00 | -27.46 | Peak | |
| 6 | 3. 2370 | 22. 29 | 9. 77 | 32.06 | 56. 00 | -23. 94 | Peak | |
| 7 | 12.0525 | 21.47 | 10. 16 | 31.63 | 60.00 | -28. 37 | Peak | |

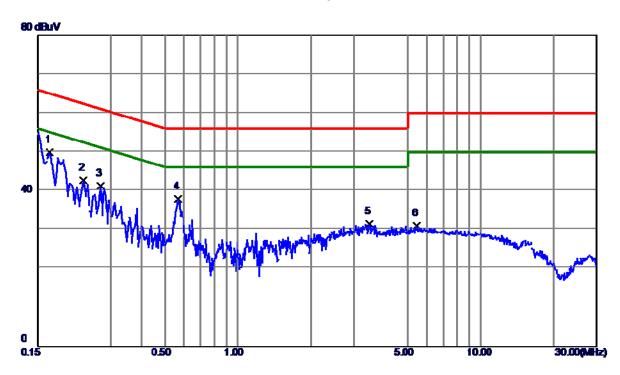
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Test Mode : Normal Link_Adapter: SOY-1200300US

Line



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-------------------------|------------------|-------------------|-----------------|-------|---------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0.1680 | 40. 14 | 9. 78 | 49.92 | 65.06 | -15. 14 | Peak | |
| 2 | 0.2310 | 32. 99 | 9. 76 | 42.75 | 62.41 | -19. 66 | Peak | |
| 3 | 0.2714 | 31. 50 | 9. 76 | 41.26 | 61.07 | -19. 81 | Peak | |
| 4 | 0. 5 68 5 | 28.05 | 9. 81 | 37.86 | 56.00 | -18. 14 | Peak | |
| 5 | 3.4800 | 21. 51 | 10.01 | 31.52 | 56.00 | -24.48 | Peak | |
| 6 | 5. 4555 | 20. 90 | 10.11 | 31.01 | 60.00 | -28. 99 | Peak | |
| | | | | | | | | |

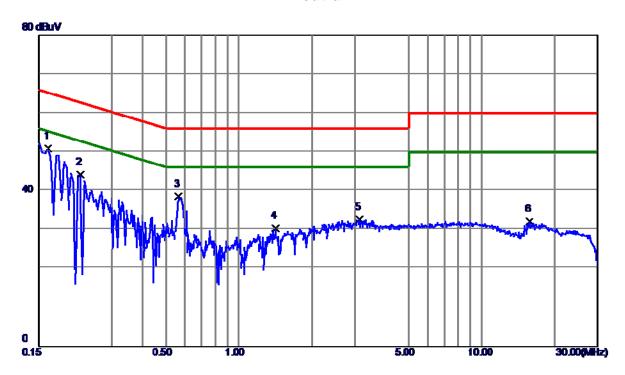
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Test Mode : Normal Link_Adapter: SOY-1200300US

Neutral



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|---------|------------------|-------------------|-----------------|---------------|---------|----------|---------|
| | MHz | dBuV | dΒ | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0. 1635 | 41. 24 | 9. 68 | 50.92 | 65. 28 | -14. 36 | Peak | |
| 2 | 0.2220 | 34.47 | 9. 68 | 44.15 | 62.74 | -18. 59 | Peak | |
| 3 | 0.5639 | 28.80 | 9. 71 | 38.51 | 56. 00 | -17. 49 | Peak | |
| 4 | 1.4100 | 20. 67 | 9. 78 | 30.45 | 56. 00 | -25. 55 | Peak | |
| 5 | 3. 1245 | 22.69 | 9. 91 | 32.60 | 56.00 | -23. 40 | Peak | |
| 6 | 15.6660 | 21.46 | 10.65 | 32.11 | 60.00 | -27. 89 | Peak | |
| | | | | | | | | |

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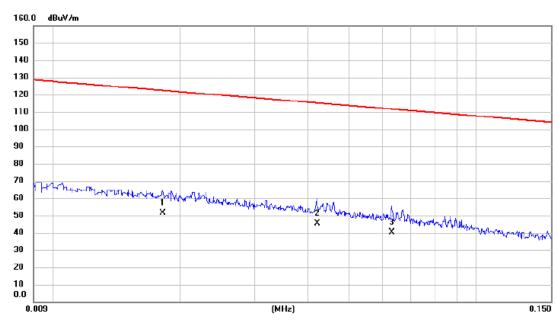
| APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ) |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

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Ant 0°



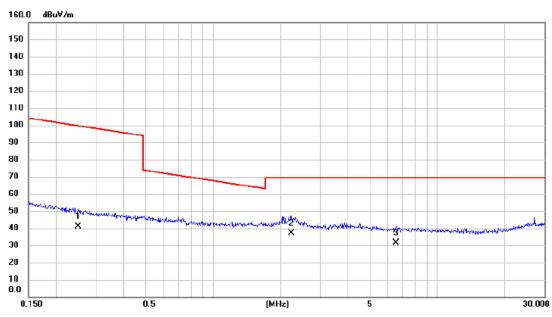
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0182 | 31.70 | 19.85 | 51.55 | 122.40 | -70.85 | AVG | |
| 2 * | 0.0422 | 26.60 | 18.95 | 45.55 | 115.10 | -69.55 | AVG | |
| 3 | 0.0631 | 21.60 | 18.47 | 40.07 | 111.60 | -71.53 | AVG | |

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Ant 0°



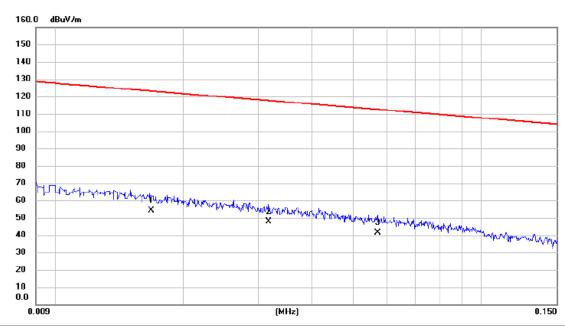
| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|-------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.2508 | 24.23 | 16.66 | 40.89 | 99.62 | -58.73 | AVG | |
| 2 * | 2.2367 | 21.66 | 15.44 | 37.10 | 69.54 | -32.44 | QP | |
| 3 | 6.5227 | 17.10 | 14.18 | 31.28 | 69.54 | -38.26 | QP | |

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Ant 90°



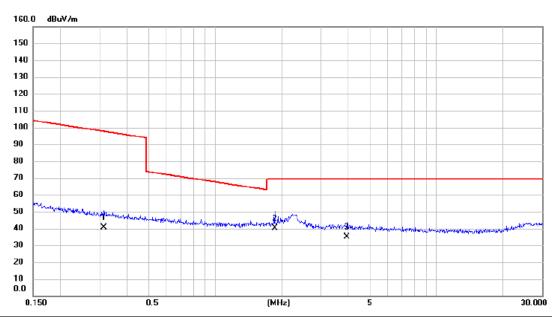
| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|-------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 0.0168 | 33.99 | 20.04 | 54.03 | 123.10 | -69.07 | AVG | |
| 2 | 0.0317 | 28.67 | 19.27 | 47.94 | 117.58 | -69.64 | AVG | |
| 3 | 0.0570 | 22.66 | 18.59 | 41.25 | 112.49 | -71.24 | AVG | |

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Ant 90°



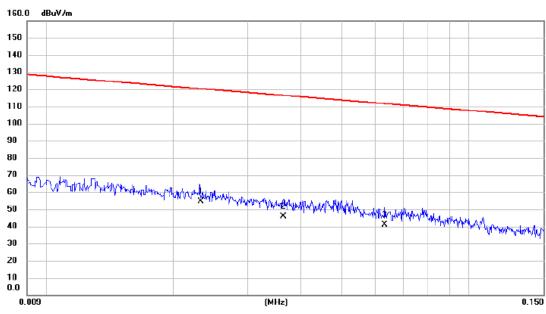
| No. Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.3133 | 24.03 | 16.61 | 40.64 | 97.69 | -57.05 | AVG | |
| 2 * | 1.8680 | 24.69 | 15.56 | 40.25 | 69.54 | -29.29 | QP | |
| 3 | 3.9430 | 19.94 | 14.97 | 34.91 | 69.54 | -34.63 | QP | |

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Ant 0°



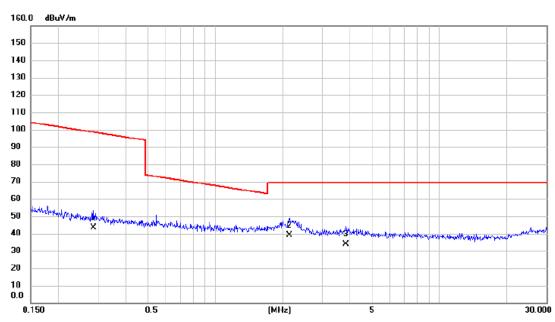
| No. Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 0.0232 | 35.18 | 19.52 | 54.70 | 120.30 | -65.60 | AVG | |
| 2 | 0.0364 | 26.56 | 19.13 | 45.69 | 116.38 | -70.69 | AVG | |
| 3 | 0.0632 | 22.39 | 18.47 | 40.86 | 111.59 | -70.73 | AVG | |

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Ant 0°



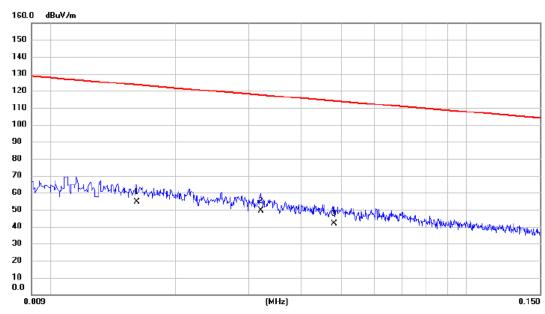
| No. Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.2863 | 26.81 | 16.63 | 43.44 | 98.47 | -55.03 | AVG | |
| 2 * | 2.1440 | 23.34 | 15.47 | 38.81 | 69.54 | -30.73 | QP | |
| 3 | 3.8196 | 19.00 | 15.00 | 34.00 | 69.54 | -35.54 | QP | |

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Ant 90°



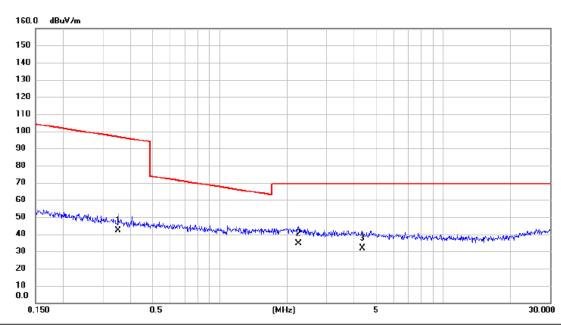
| No. Mk. | Freq. | Reading Level | | Measure- ment | | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0161 | 34.65 | 20.13 | 54.78 | 123.47 | -68.69 | AVG | |
| 2 * | 0.0321 | 30.29 | 19.26 | 49.55 | 117.47 | -67.92 | AVG | |
| 3 | 0.0480 | 22.93 | 18.78 | 41.71 | 113.98 | -72.27 | AVG | |

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Ant 90°



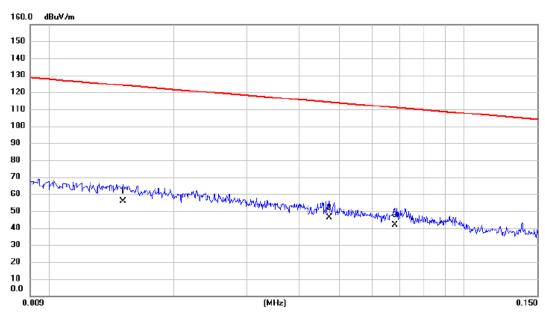
| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|-------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.3502 | 25.50 | 16.58 | 42.08 | 96.72 | -54.64 | AVG | |
| 2 * | 2.2486 | 18.98 | 15.44 | 34.42 | 69.54 | -35.12 | QP | |
| 3 | 4.3606 | 17.12 | 14.74 | 31.86 | 69.54 | -37.68 | QP | |

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Ant 0°



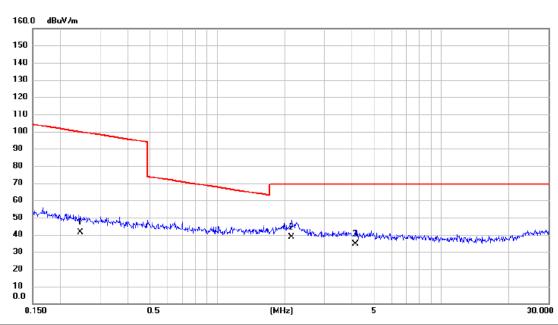
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0151 | 35.52 | 20.26 | 55.78 | 124.03 | -68.25 | AVG | |
| 2 * | 0.0473 | 27.52 | 18.80 | 46.32 | 114.11 | -67.79 | AVG | |
| 3 | 0.0680 | 23.48 | 18.37 | 41.85 | 110.95 | -69.10 | AVG | |

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Ant 0°



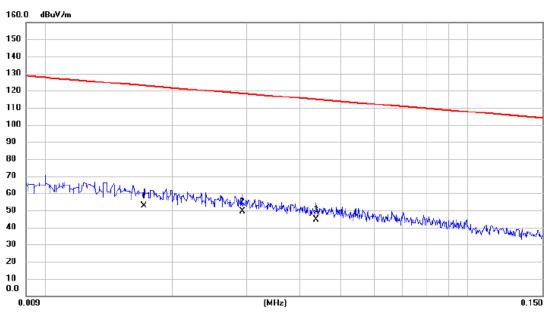
| No. Mk. | Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.2455 | 24.80 | 16.67 | 41.47 | 99.80 | -58.33 | AVG | |
| 2 * | 2.1440 | 23.06 | 15.47 | 38.53 | 69.54 | -31.01 | QP | |
| 3 | 4.1356 | 19.73 | 14.87 | 34.60 | 69.54 | -34.94 | QP | |

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Ant 90°



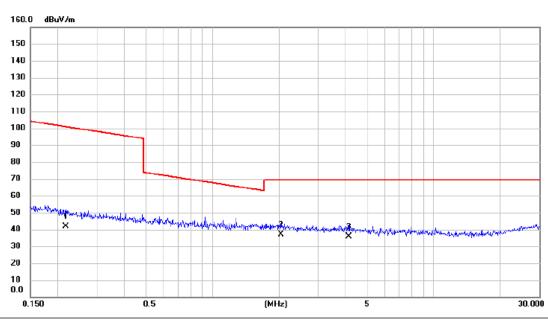
| No. Mk. | Freq. | Reading Level | | Measure ment | - Limit | Margin | | |
|---------|--------|------------------|-------|-----------------|------------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0171 | 32.72 | 20.00 | 52.72 | 122.94 | -70.22 | AVG | |
| 2 * | 0.0293 | 30.21 | 19.34 | 49.55 | 118.27 | -68.72 | AVG | |
| 3 | 0.0437 | 25.65 | 18.91 | 44.56 | 114.80 | -70.24 | AVG | |

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Ant 90°



| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|-------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.2174 | 25.23 | 16.75 | 41.98 | 100.86 | -58.88 | AVG | |
| 2 * | 2.0441 | 21.32 | 15.50 | 36.82 | 69.54 | -32.72 | QP | |
| 3 | 4.1356 | 20.75 | 14.87 | 35.62 | 69.54 | -33.92 | QP | |

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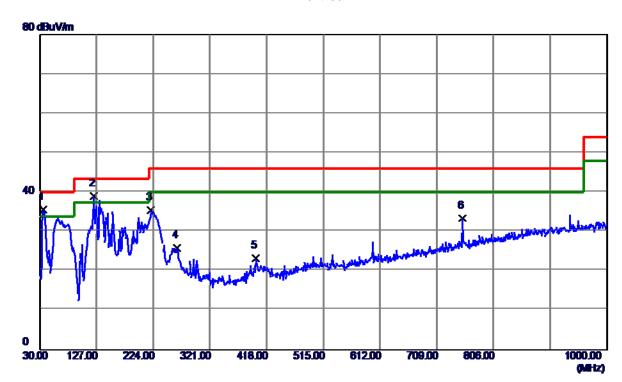
| APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ) |
|---|
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| |
| |
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| |

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Vertical



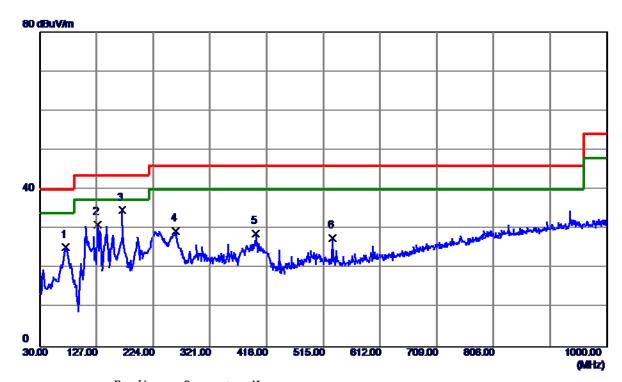
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|-----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 36.7900 | 50. 14 | -14.41 | 35. 73 | 40.00 | -4.27 | Peak | |
| 2 | 123. 1200 | 54. 19 | -15. 18 | 39.01 | 43.50 | -4.49 | Peak | |
| 3 | 220. 1200 | 49. 37 | -13. 91 | 35. 46 | 46.00 | -10.54 | Peak | |
| 4 | 264.7400 | 41.70 | -15. 78 | 25.9 2 | 46.00 | −20. 0 8 | Peak | |
| 5 | 399. 5700 | 34.65 | -11. 37 | 23. 28 | 46.00 | -22.72 | Peak | |
| 6 | 753.6200 | 35. 77 | -2.37 | 33.40 | 46.00 | -12.60 | Peak | |
| | | | | | | | | |

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Horizontal



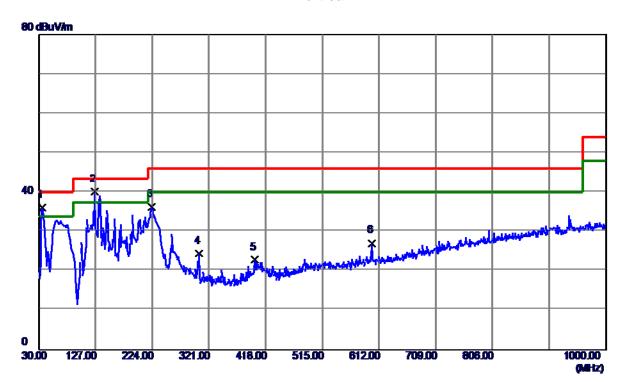
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 74.6200 | 42. 26 | -17.04 | 25. 22 | 40.00 | -14.78 | Peak | |
| 2 | 128.9400 | 45.89 | -14. 78 | 31. 11 | 43.50 | -12.39 | Peak | |
| 3 * | 170.6500 | 46. 97 | -12. 32 | 34.65 | 43.50 | -8.85 | Peak | |
| 4 | 262.8000 | 45. 22 | -15. 75 | 29. 47 | 46.00 | -16.53 | Peak | |
| 5 | 399. 5700 | 40. 12 | -11. 37 | 28.75 | 46.00 | -17. 25 | Peak | |
| 6 | 531.4900 | 35. 73 | -8.09 | 27.64 | 46.00 | -18. 36 | Peak | |
| | | | | | | | | |

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Vertical



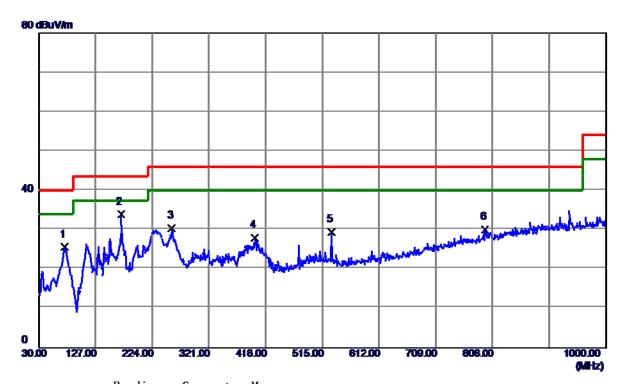
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 36.7900 | 50. 59 | -14.41 | 36. 18 | 40.00 | -3.82 | Peak | |
| 2 * | 126.0300 | 55. 15 | -14. 98 | 40. 17 | 43.50 | -3. 33 | Peak | |
| 3 | 223.0300 | 50. 32 | -13. 97 | 36. 35 | 46.00 | -9.65 | Peak | |
| 4 | 303. 5400 | 37. 18 | -12. 77 | 24. 41 | 46.00 | -21. 59 | Peak | |
| 5 | 399. 5700 | 34. 21 | -11. 37 | 22.84 | 46.00 | -23. 16 | Peak | |
| 6 | 600. 3600 | 33. 53 | -6.41 | 27. 12 | 46.00 | -18.88 | Peak | |
| | | | | | | | | |

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Horizontal



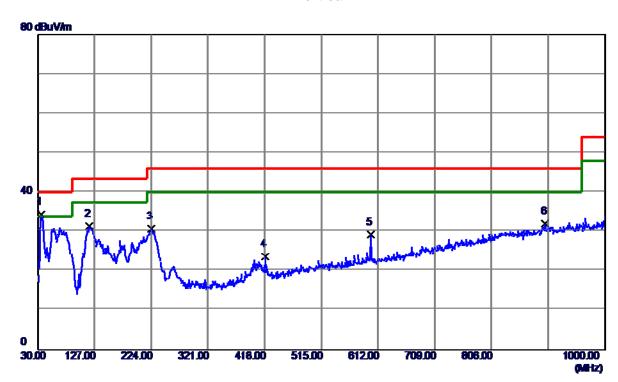
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 74.6200 | 42.60 | -17.04 | 25. 56 | 40.00 | -14.44 | Peak | |
| 2 * | 170.6500 | 46. 30 | -12. 32 | 33.98 | 43.50 | -9. 52 | Peak | |
| 3 | 257.9500 | 45.87 | -15. 54 | 30. 33 | 46.00 | -15.67 | Peak | |
| 4 | 399. 5700 | 39. 40 | -11. 37 | 28. 03 | 46.00 | -17.97 | Peak | |
| 5 | 531.4900 | 37.51 | -8.09 | 29.42 | 46.00 | -16. 58 | Peak | |
| 6 | 793. 3900 | 31. 54 | -1.50 | 30. 04 | 46.00 | -15. 96 | Peak | |
| | | | | | | | | |

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Vertical



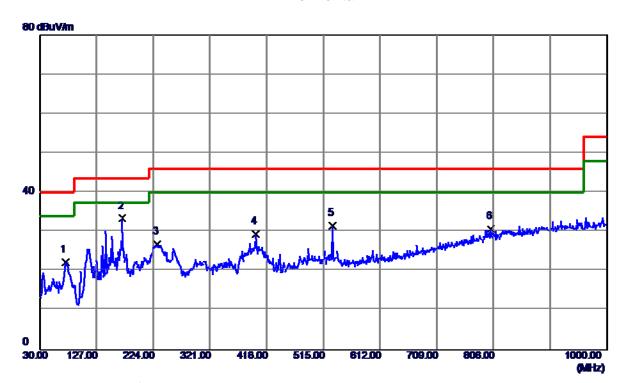
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 36.7900 | 48. 87 | -14. 41 | 34.46 | 40.00 | -5.54 | Peak | |
| 2 | 118. 2700 | 46.83 | -15. 53 | 31. 30 | 43.50 | -12. 20 | Peak | |
| 3 | 224.0000 | 44.76 | -13. 99 | 30.77 | 46.00 | -15. 23 | Peak | |
| 4 | 418.9700 | 34. 49 | -10.82 | 23.67 | 46.00 | -22.33 | Peak | |
| 5 | 600. 3600 | 35. 61 | -6.41 | 29. 20 | 46.00 | -16.80 | Peak | |
| 6 | 898. 1500 | 31.03 | 0. 99 | 32.0 2 | 46.00 | -13.98 | Peak | |
| | | | | | | | | |

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Horizontal



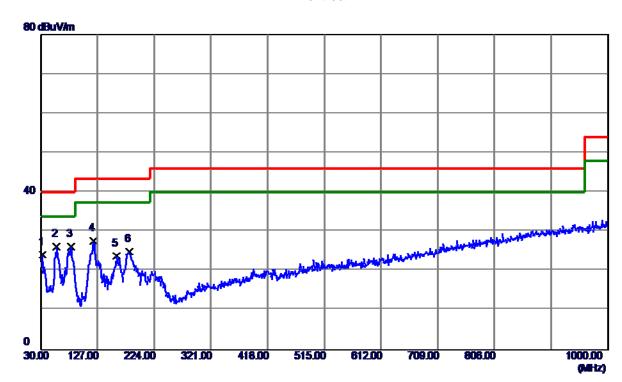
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 73.6500 | 39. 21 | -16. 93 | 22. 28 | 40.00 | -17.72 | Peak | |
| 2 * | 171.6200 | 45.65 | -12. 29 | 33. 36 | 43.50 | -10. 14 | Peak | |
| 3 | 230. 7900 | 41.04 | -14. 15 | 26.89 | 46.00 | -19. 11 | Peak | |
| 4 | 399. 5700 | 40.74 | -11. 37 | 29. 37 | 46.00 | -16.63 | Peak | |
| 5 | 531.4900 | 39. 62 | -8.09 | 31. 53 | 46.00 | -14.47 | Peak | |
| 6 | 802. 1200 | 32. 07 | -1.30 | 30.77 | 46.00 | -15. 23 | Peak | |
| | | | | | | | | |

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Vertical



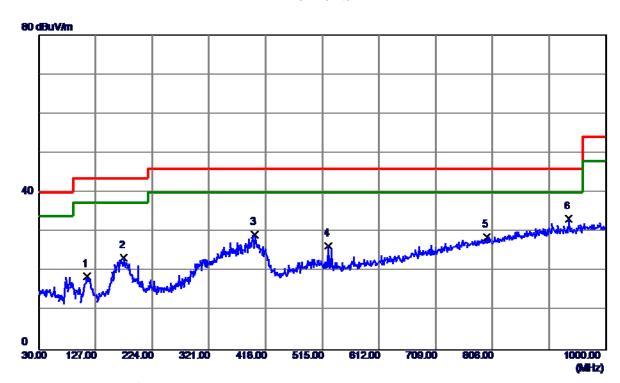
| No. | Freq. | keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 32.9100 | 39. 03 | -14.89 | 24. 14 | 40.00 | -15.86 | Peak | |
| 2 | 57. 1600 | 40. 21 | -14. 04 | 26. 17 | 40.00 | -13.83 | Peak | |
| 3 * | 81.4100 | 44. 57 | -18. 28 | 26. 29 | 40.00 | -13.71 | Peak | |
| 4 | 120. 2100 | 43.05 | -15. 38 | 27.67 | 43. 50 | -15.83 | Peak | |
| 5 | 159. 0100 | 36. 88 | -12. 99 | 23.89 | 43. 50 | -19.61 | Peak | |
| 6 | 182. 2899 | 37. 22 | -12. 22 | 25.00 | 43. 50 | -18.50 | Peak | |
| | | | | | | | | |

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Horizontal



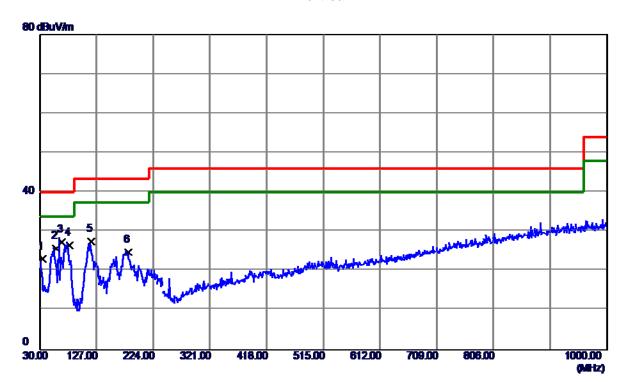
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 113.4200 | 34. 56 | -15. 92 | 18.64 | 43.50 | -24.86 | Peak | |
| 2 | 175. 5000 | 35. 54 | -12. 17 | 23. 37 | 43.50 | -20. 13 | Peak | |
| 3 | 399. 5700 | 40.69 | -11. 37 | 29. 32 | 46.00 | -16.68 | Peak | |
| 4 | 525.6700 | 34. 57 | -8. 2 0 | 26. 37 | 46.00 | -19.63 | Peak | |
| 5 | 796. 3000 | 30. 12 | -1.44 | 28. 68 | 46.00 | -17.32 | Peak | |
| 6 * | 935. 9800 | 31. 57 | 1. 72 | 33. 29 | 46. 00 | -12.71 | Peak | |
| | | | | | | | | |

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Vertical



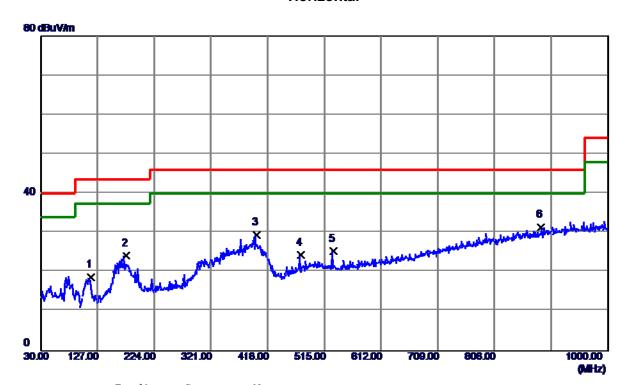
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 35. 8152 | 37.62 | -14.51 | 23. 11 | 40.00 | -16.89 | Peak | |
| 2 | 58. 0136 | 39. 85 | -14. 12 | 25.73 | 40.00 | -14.27 | Peak | |
| 3 * | 67.6650 | 43. 25 | -15. 89 | 27.36 | 40.00 | -12.64 | Peak | |
| 4 | 81. 1772 | 44.88 | -18. 28 | 26.60 | 40.00 | -13.40 | Peak | |
| 5 | 118.8181 | 42.94 | -15. 49 | 27.45 | 43. 50 | -16.05 | Peak | |
| 6 | 181. 5528 | 37.01 | -12. 17 | 24.84 | 43. 50 | -18.66 | Peak | |
| | | | | | | | | |

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Horizontal



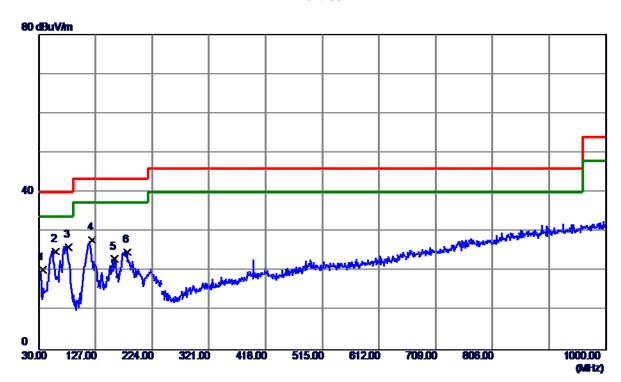
| Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----------|--|-------------------|---|--|--|---|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 115. 9226 | 34.41 | -15. 72 | 18. 69 | 43.50 | -24.81 | Peak | |
| 176.7269 | 36. 26 | -12. 14 | 24. 12 | 43.50 | -19.38 | Peak | |
| 399.6767 | 40.80 | -11. 36 | 29.44 | 46.00 | -16. 56 | Peak | |
| 474.9584 | 33. 65 | -9.33 | 24. 32 | 46.00 | -21.68 | Peak | |
| 530.9371 | 33. 43 | -8.10 | 25. 33 | 46.00 | -20.67 | Peak | |
| 886. 1123 | 30. 66 | 0.74 | 31. 40 | 46.00 | -14.60 | Peak | |
| | MHz 115. 9226 176. 7269 399. 6767 474. 9584 530. 9371 | Freq. Level | MHz dBuV/m dB 115.9226 34.41 -15.72 176.7269 36.26 -12.14 399.6767 40.80 -11.36 474.9584 33.65 -9.33 530.9371 33.43 -8.10 | MHz dBuV/m dB dBuV/m 115.9226 34.41 -15.72 18.69 176.7269 36.26 -12.14 24.12 399.6767 40.80 -11.36 29.44 474.9584 33.65 -9.33 24.32 530.9371 33.43 -8.10 25.33 | MHz dBuV/m dB dBuV/m dBuV/m 115. 9226 34. 41 -15. 72 18. 69 43. 50 176. 7269 36. 26 -12. 14 24. 12 43. 50 399. 6767 40. 80 -11. 36 29. 44 46. 00 474. 9584 33. 65 -9. 33 24. 32 46. 00 530. 9371 33. 43 -8. 10 25. 33 46. 00 | MHz dBuV/m dB dBuV/m dBuV/m dB 115. 9226 34. 41 -15. 72 18. 69 43. 50 -24. 81 176. 7269 36. 26 -12. 14 24. 12 43. 50 -19. 38 399. 6767 40. 80 -11. 36 29. 44 46. 00 -16. 56 474. 9584 33. 65 -9. 33 24. 32 46. 00 -21. 68 530. 9371 33. 43 -8. 10 25. 33 46. 00 -20. 67 | MHz dBuV/m dB dBuV/m dBuV/m dB Detector 115. 9226 34. 41 -15. 72 18. 69 43. 50 -24. 81 Peak 176. 7269 36. 26 -12. 14 24. 12 43. 50 -19. 38 Peak 399. 6767 40. 80 -11. 36 29. 44 46. 00 -16. 56 Peak 474. 9584 33. 65 -9. 33 24. 32 46. 00 -21. 68 Peak 530. 9371 33. 43 -8. 10 25. 33 46. 00 -20. 67 Peak |

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Vertical



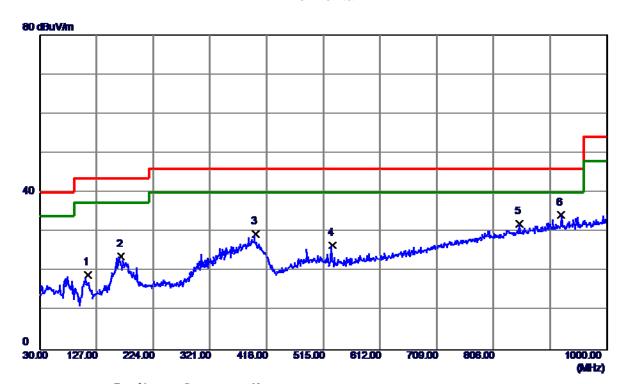
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|---------------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 37.7454 | 34.65 | -14. 30 | 20.3 5 | 40.00 | -19.65 | Peak | |
| 2 | 58. 9787 | 39. 15 | -14. 21 | 24.94 | 40.00 | −15. 06 | Peak | |
| 3 * | 81. 1772 | 44.30 | -18. 28 | 26.0 2 | 40.00 | -13.98 | Peak | |
| 4 | 121.7135 | 43.06 | -15. 28 | 27.78 | 43.50 | -15.72 | Peak | |
| 5 | 159. 3544 | 36. 06 | -12. 97 | 23. 09 | 43. 50 | -20.41 | Peak | |
| 6 | 181. 5528 | 37.05 | -12. 17 | 24.88 | 43.50 | -18.62 | Peak | |
| | | | | | | | | |

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Horizontal



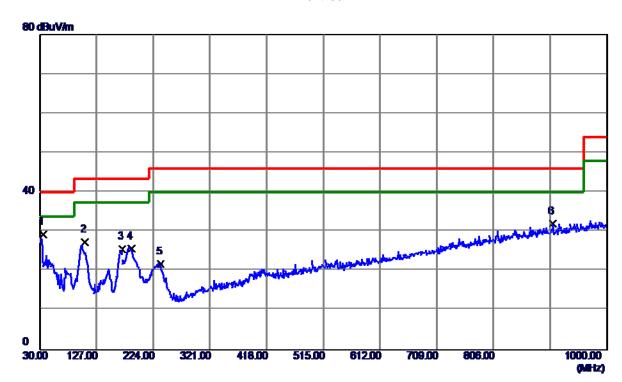
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 113.0272 | 34.96 | -15. 95 | 19. 01 | 43.50 | -24.49 | Peak | |
| 2 | 169.0060 | 36. 13 | -12. 39 | 23.74 | 43.50 | -19.76 | Peak | |
| 3 | 399.6767 | 40.74 | -11. 36 | 29. 38 | 46.00 | -16.62 | Peak | |
| 4 | 530. 9371 | 34.63 | -8. 10 | 26. 53 | 46.00 | -19.47 | Peak | |
| 5 | 850. 4017 | 31. 92 | 0. 01 | 31. 93 | 46.00 | -14.07 | Peak | |
| 6 * | 921.8230 | 32.74 | 1.45 | 34. 19 | 46.00 | -11.81 | Peak | |
| | | | | | | | | |

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Vertical



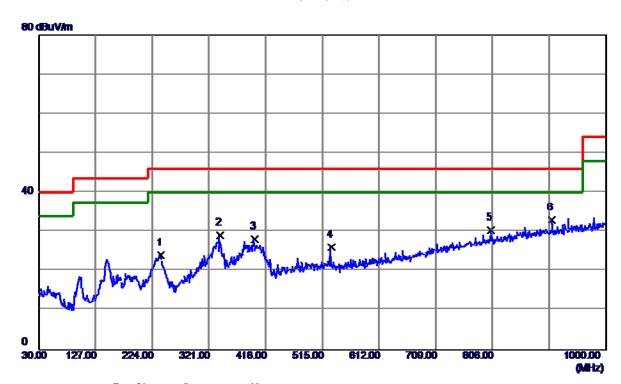
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 36. 7803 | 43.73 | -14. 41 | 29. 32 | 40.00 | -10.68 | Peak | |
| 2 | 107. 2362 | 43.92 | -16. 55 | 27. 37 | 43.50 | -16. 13 | Peak | |
| 3 | 170. 9361 | 37.86 | -12. 31 | 25. 55 | 43.50 | -17.95 | Peak | |
| 4 | 187. 3437 | 38. 31 | -12. 63 | 25. 6 8 | 43.50 | -17.82 | Peak | |
| 5 | 236. 5664 | 36. 04 | -14. 28 | 21.76 | 46.00 | -24. 24 | Peak | |
| 6 | 907. 3456 | 30. 90 | 1. 17 | 32. 07 | 46.00 | -13.93 | Peak | |
| | | | | | | | | |

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Horizontal



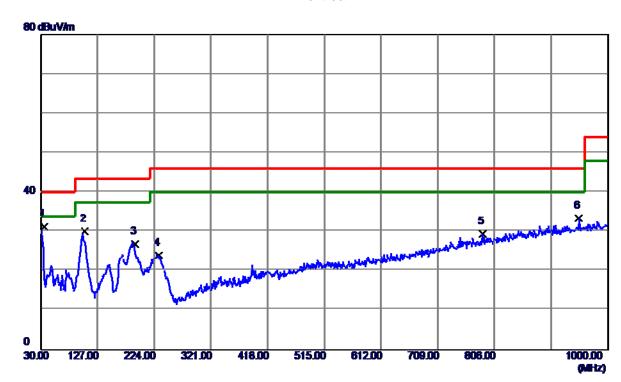
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 239. 4618 | 38. 34 | -14. 35 | 23. 99 | 46.00 | -22.01 | Peak | |
| 2 | 340.8025 | 41. 25 | -12. 12 | 29. 13 | 46.00 | -16.87 | Peak | |
| 3 | 399.6767 | 39. 51 | -11. 36 | 28. 15 | 46.00 | -17.85 | Peak | |
| 4 | 530. 9371 | 34. 17 | -8. 10 | 26. 07 | 46.00 | -19.93 | Peak | |
| 5 | 804.0746 | 31.71 | -1.25 | 30.46 | 46.00 | -15.54 | Peak | |
| 6 * | 907. 3456 | 31.73 | 1. 17 | 32.90 | 46.00 | -13. 10 | Peak | |
| | | | | | | | | |

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Vertical



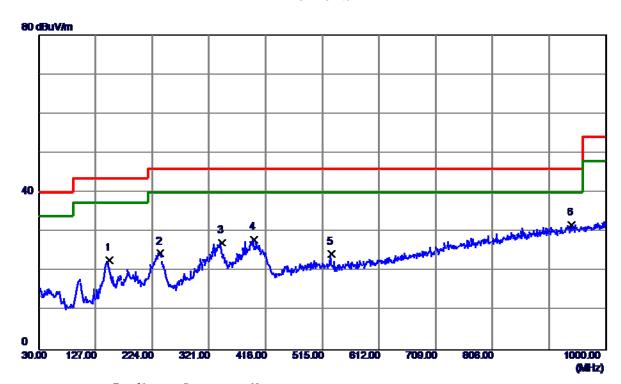
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 36.7803 | 45.69 | -14.41 | 31. 28 | 40.00 | -8.72 | Peak | |
| 2 | 105. 3060 | 46. 95 | -16. 80 | 30 . 15 | 43.50 | -13.35 | Peak | |
| 3 | 191. 2043 | 39. 90 | -12. 95 | 26. 95 | 43.50 | -16. 55 | Peak | |
| 4 | 231.7406 | 38. 16 | -14. 17 | 23. 99 | 46.00 | -22.01 | Peak | |
| 5 | 785. 7367 | 31. 18 | -1.67 | 29. 51 | 46.00 | -16. 49 | Peak | |
| 6 | 950.7773 | 31. 40 | 2. 01 | 33. 41 | 46.00 | -12. 59 | Peak | |
| | | | | | | | | |

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Horizontal



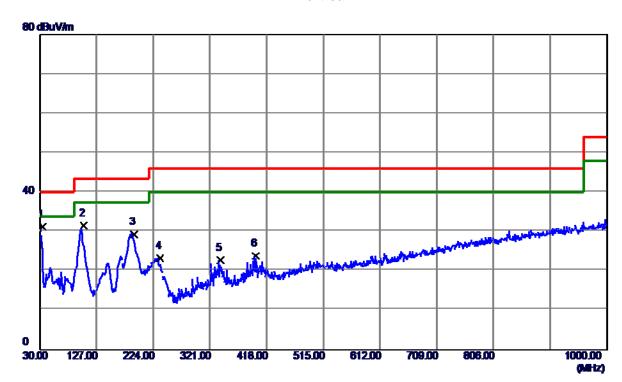
| | dBuV/m 36. 18 | dB -13. 49 | dBuV/m 22.69 | | dB -20, 81 | Detector | Comment |
|---------|------------------|--|-----------------------|------------------------------|-------------------------------------|---|--|
| | | | 22.69 | 43 50 | -20 Q1 | D 1 | |
| | 00 50 | | | 10.00 | ۷۷. 01 | Peak | |
| 7. 5315 | 38. 70 | -14. 30 | 24.40 | 46.00 | -21.60 | Peak | |
| 3. 6980 | 39. 34 | −12. 07 | 27. 27 | 46.00 | -18.73 | Peak | |
| 8.7115 | 39. 37 | -11. 38 | 27. 99 | 46.00 | -18.01 | Peak | |
| 0. 9371 | 32. 36 | -8. 10 | 24. 26 | 46.00 | -21.74 | Peak | |
| | 20 00 | 1.84 | 31.72 | 46.00 | -14. 28 | Peak | |
| | 0. 9371 | 8. 7115 39. 37 0. 9371 32. 36 2. 0910 29. 88 | 0. 9371 32. 36 -8. 10 | 0. 9371 32. 36 -8. 10 24. 26 | 0. 9371 32. 36 -8. 10 24. 26 46. 00 | 0. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 | 0.9371 32.36 -8.10 24.26 46.00 -21.74 Peak |

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Vertical



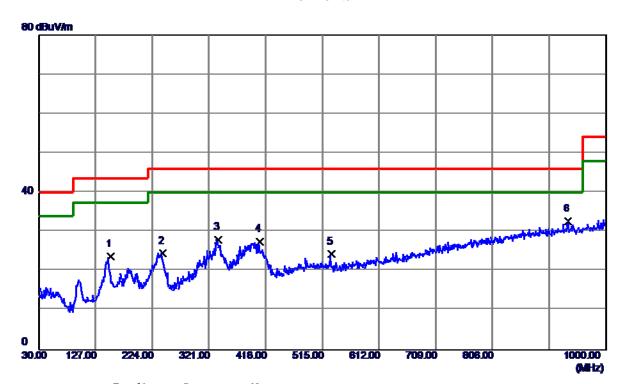
| No. | Freq. | Keading Level | Correct Factor | measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 35.8152 | 45.74 | -14. 51 | 31. 23 | 40.00 | -8.77 | Peak | |
| 2 | 105. 3060 | 48. 31 | -16. 80 | 31.51 | 43.50 | -11.99 | Peak | |
| 3 | 191. 2043 | 42. 25 | -12. 95 | 29.30 | 43. 50 | -14.20 | Peak | |
| 4 | 235. 6012 | 37.41 | -14. 26 | 23. 15 | 46.00 | -22.85 | Peak | |
| 5 | 338.8723 | 34.84 | -12. 15 | 22.69 | 46.00 | -23.31 | Peak | |
| 6 | 399.6767 | 35. 13 | -11. 36 | 23.77 | 46.00 | -22. 23 | Peak | |
| | | | | | | | | |

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Horizontal



| 1 152. 5983 37. 05 -13. 37 23. 68 43. 50 -19. 82 Peak 2 242. 3572 38. 95 -14. 48 24. 47 46. 00 -21. 53 Peak 3 336. 9420 40. 18 -12. 18 28. 00 46. 00 -18. 00 Peak 4 408. 3630 38. 60 -11. 12 27. 48 46. 00 -18. 52 Peak 5 530. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 Peak | No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|--|-----|-----------|------------------|-------------------|-----------------|--------|-----------------|----------|---------|
| 2 242. 3572 38. 95 -14. 48 24. 47 46. 00 -21. 53 Peak 3 336. 9420 40. 18 -12. 18 28. 00 46. 00 -18. 00 Peak 4 408. 3630 38. 60 -11. 12 27. 48 46. 00 -18. 52 Peak 5 530. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 Peak | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 3 336. 9420 40. 18 -12. 18 28. 00 46. 00 -18. 00 Peak 4 408. 3630 38. 60 -11. 12 27. 48 46. 00 -18. 52 Peak 5 530. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 Peak | 1 | 152. 5983 | 37.05 | -13. 37 | 23. 68 | 43. 50 | -19.82 | Peak | |
| 4 408. 3630 38. 60 -11. 12 27. 48 46. 00 -18. 52 Peak 5 530. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 Peak | 2 | 242. 3572 | 38. 95 | -14.48 | 24.47 | 46.00 | -21.53 | Peak | |
| 5 530. 9371 32. 36 -8. 10 24. 26 46. 00 -21. 74 Peak | 3 | 336. 9420 | 40. 18 | -12. 18 | 28.00 | 46.00 | −18 . 00 | Peak | |
| | 4 | 408. 3630 | 38. 60 | -11. 12 | 27.48 | 46.00 | -18.52 | Peak | |
| 6 * 935, 3350 30, 94 1, 71 32, 65 46, 00 -13, 35 Peak | 5 | 530.9371 | 32. 36 | -8. 10 | 24. 26 | 46.00 | -21.74 | Peak | |
| 0 0001000 00101 1111 00100 10100 1001 | 6 * | 935. 3350 | 30. 94 | 1.71 | 32.65 | 46.00 | -13.35 | Peak | |

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| APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ) |
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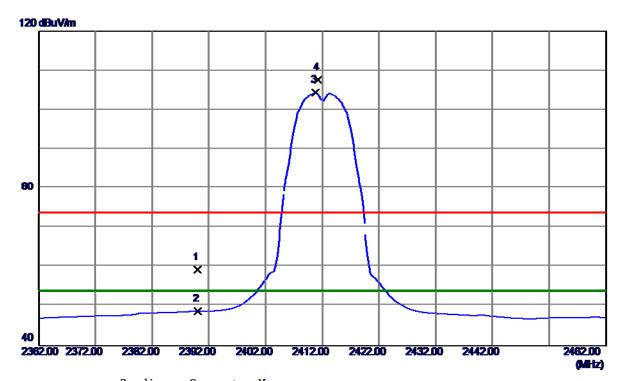
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Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz

Vertical



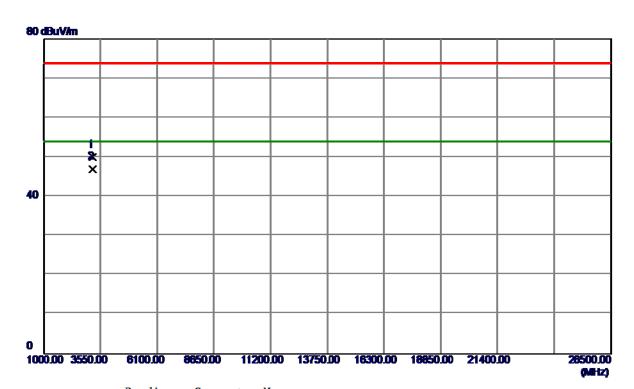
| Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|------------|---|-------------------|---|---|--|---|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 2390. 0000 | 26. 32 | 32. 99 | 59. 31 | 74.00 | 14.69 | Peak | |
| 2390.0000 | 15.82 | 32. 99 | 48.81 | 54.00 | - 5. 1 9 | AVG | |
| 2410. 8000 | 71. 18 | 33. 09 | 104.27 | 54.00 | 50. 27 | AVG | No Limit |
| 2411. 2000 | 74.43 | 33. 09 | 107.52 | 74.00 | 33. 52 | Peak | No Limit |
| | MHz 2390. 0000 2390. 0000 2410. 8000 | Freq. Level | Hz dBuV/m dB 2390.0000 26.32 32.99 2390.0000 15.82 32.99 2410.8000 71.18 33.09 | MHz dBuV/m dB dBuV/m 2390.0000 26.32 32.99 59.31 2390.0000 15.82 32.99 48.81 2410.8000 71.18 33.09 104.27 | MHz dBuV/m dB dBuV/m dBuV/m 2390.0000 26.32 32.99 59.31 74.00 2390.0000 15.82 32.99 48.81 54.00 2410.8000 71.18 33.09 104.27 54.00 | MHz dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB dBuV/m dB dB | MHz dBuV/m dB dBuV/m dBuV/m dB Detector 2390.0000 26.32 32.99 59.31 74.00 14.69 Peak 2390.0000 15.82 32.99 48.81 54.00 -5.19 AVG 2410.8000 71.18 33.09 104.27 54.00 50.27 AVG |

Report No.: BTL-FCCP-1-1712C022 Page 72 of 193





Vertical



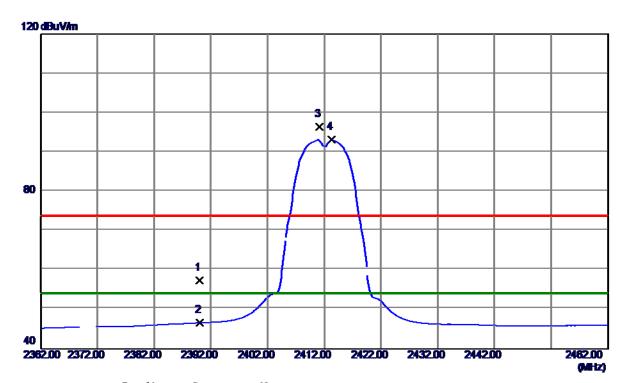
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3216.0000 | 47. 36 | 2.70 | 50.06 | 74.00 | -23.94 | Peak | |
| 2 * | 3216. 0200 | 44. 29 | 2.70 | 46.99 | 54.00 | -7.01 | AVG | |

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Horizontal



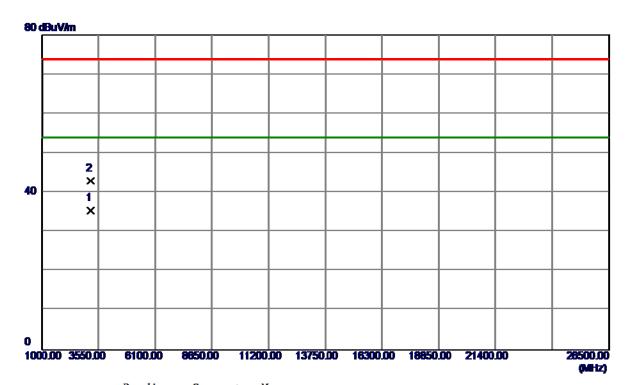
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 24.41 | 32. 99 | 57. 40 | 74.00 | -16.60 | Peak | |
| 2 | 2390. 0000 | 13.71 | 32. 99 | 46. 70 | 54.00 | -7.30 | AVG | |
| 3 | 2411. 1000 | 63. 39 | 33. 09 | 96. 48 | 74.00 | 22.48 | Peak | No Limit |
| 4 * | 2413. 3000 | 60. 13 | 33. 10 | 93. 23 | 54.00 | 39. 23 | AVG | No Limit |

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Horizontal



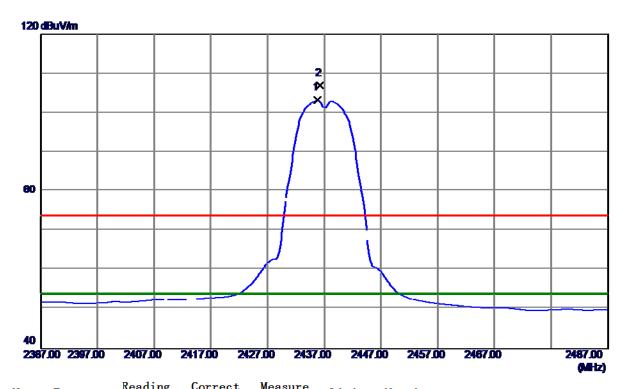
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3216.0060 | 32.86 | 2.70 | 35. 56 | 54.00 | -18.44 | AVG | |
| 2 | 3216. 0460 | 40. 40 | 2.70 | 43. 10 | 74.00 | -30.90 | Peak | |

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Vertical



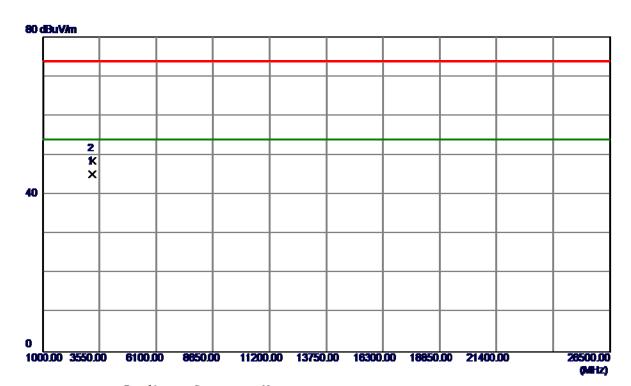
| No. | Freq. | Level | Factor | measure ment | Limit | Margin | | |
|-----|------------|--------|--------|-----------------|--------|---------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2435. 8000 | 69. 96 | 33. 22 | 103.18 | 54.00 | 49. 18 | AVG | No Limit |
| 2 | 2436. 2000 | 73. 67 | 33. 22 | 106.89 | 74.00 | 32.89 | Peak | No Limit |
| | | | | | | | | |

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Vertical



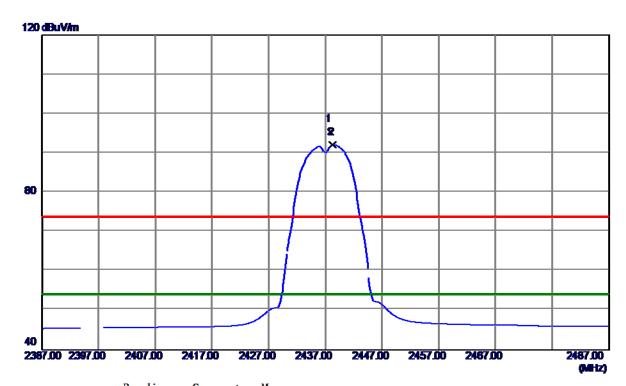
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|----------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3249. 3550 | 42. 56 | 2.74 | 45. 30 | 54.00 | -8. 7 0 | AVG | |
| 2 | 3249. 3799 | 45. 93 | 2.74 | 48.67 | 74.00 | -25.33 | Peak | |

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Horizontal



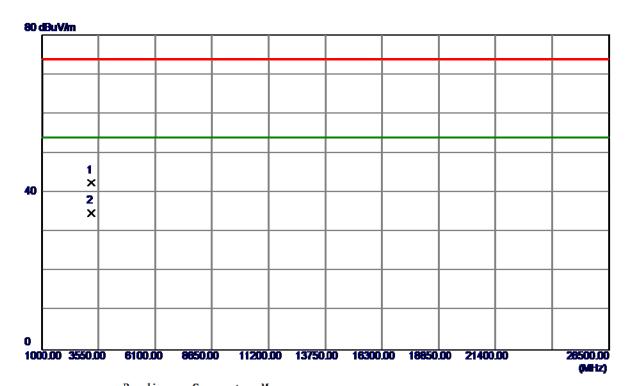
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2437. 9000 | 62. 27 | 33. 23 | 95. 50 | 74.00 | 21. 50 | Peak | No Limit |
| 2 * | 2438. 3000 | 58. 96 | 33. 23 | 92. 19 | 54.00 | 38. 19 | AVG | No Limit |

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Horizontal



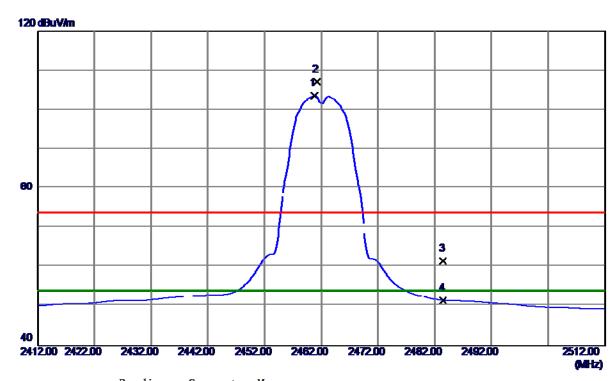
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 2700 | 39. 78 | 2.74 | 42. 52 | 74.00 | -31.48 | Peak | |
| 2 * | 3249. 3220 | 32. 16 | 2.74 | 34.90 | 54.00 | -19.10 | AVG | |

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Vertical



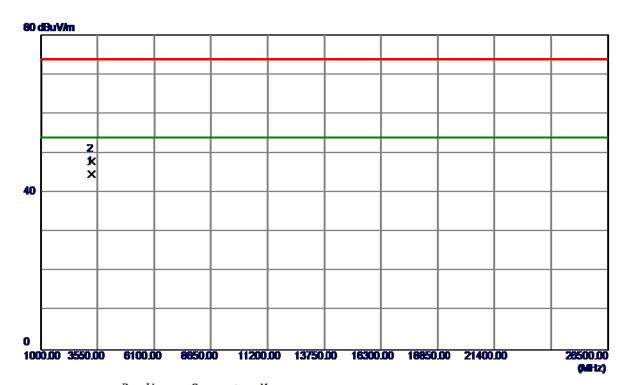
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2460. 8000 | 70. 23 | 33. 34 | 103. 57 | 54.00 | 49. 57 | AVG | No Limit |
| 2 | 2461. 2000 | 73.63 | 33. 35 | 106.98 | 74.00 | 32.98 | Peak | No Limit |
| 3 | 2483. 5000 | 28. 09 | 33. 46 | 61. 55 | 74.00 | -12.45 | Peak | |
| 4 | 2483. 5000 | 18. 10 | 33. 46 | 51.56 | 54.00 | -2.44 | AVG | |
| | | | | | | | | |

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Vertical



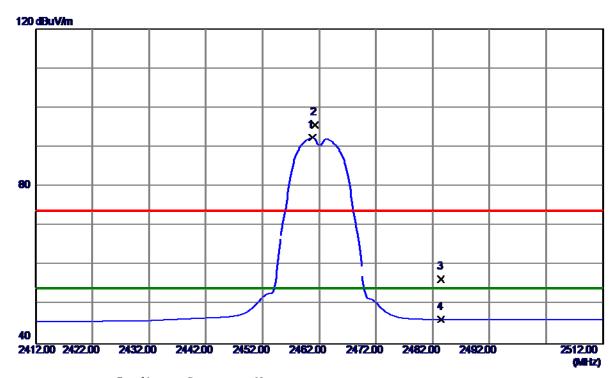
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3282. 6850 | 42.03 | 2.79 | 44.82 | 54.00 | -9. 18 | AVG | |
| 2 | 3282. 7300 | 45. 26 | 2.79 | 48.05 | 74.00 | -25.95 | Peak | |

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Horizontal



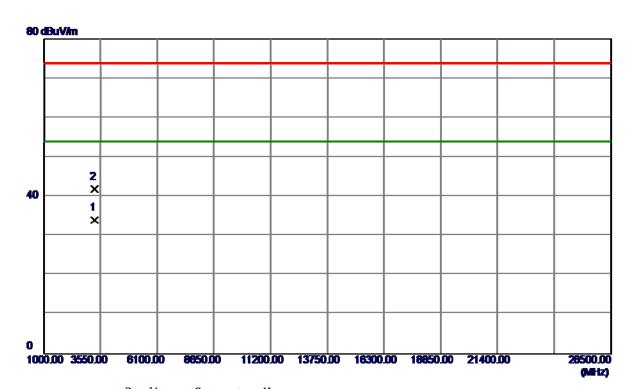
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2460.8000 | 59. 08 | 33. 34 | 92.42 | 54.00 | 38. 42 | AVG | No Limit |
| 2 | 2461. 2000 | 62.40 | 33. 35 | 95. 75 | 74.00 | 21.75 | Peak | No Limit |
| 3 | 2483. 5000 | 23. 03 | 33. 46 | 56. 49 | 74.00 | -17.51 | Peak | |
| 4 | 2483. 5000 | 12. 76 | 33. 46 | 46. 22 | 54.00 | -7.78 | AVG | |

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Horizontal



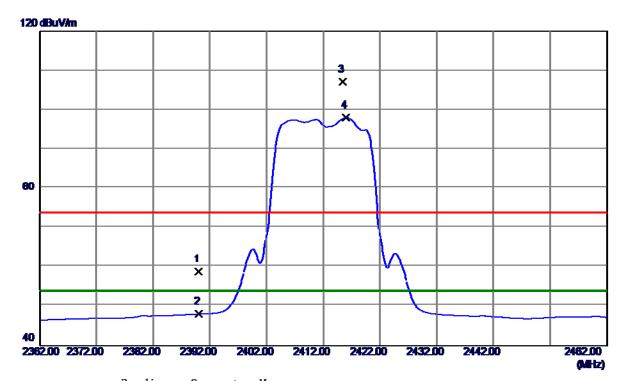
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3282. 6820 | 31. 23 | 2.79 | 34.02 | 54.00 | -19.98 | AVG | |
| 2 | 3282.7160 | 39. 19 | 2.79 | 41.98 | 74.00 | -32.02 | Peak | |

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Vertical



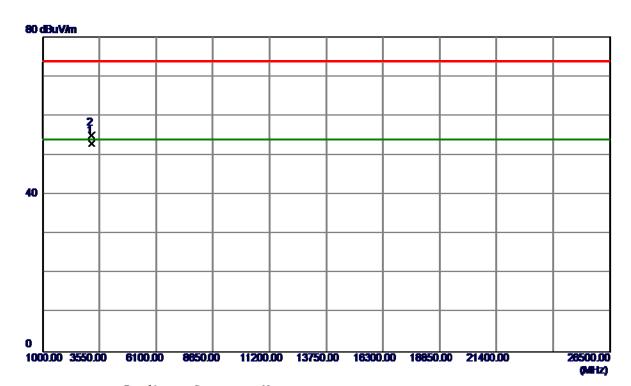
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 25. 95 | 32. 99 | 58.94 | 74.00 | 15.06 | Peak | |
| 2 | 2390. 0000 | 15. 09 | 32. 99 | 48.08 | 54.00 | -5. 92 | AVG | |
| 3 | 2415. 4000 | 73.94 | 33. 12 | 107.06 | 74.00 | 33. 06 | Peak | No Limit |
| 4 * | 2416. 0000 | 64.77 | 33. 12 | 97.89 | 54.00 | 43.89 | AVG | No Limit |

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Vertical



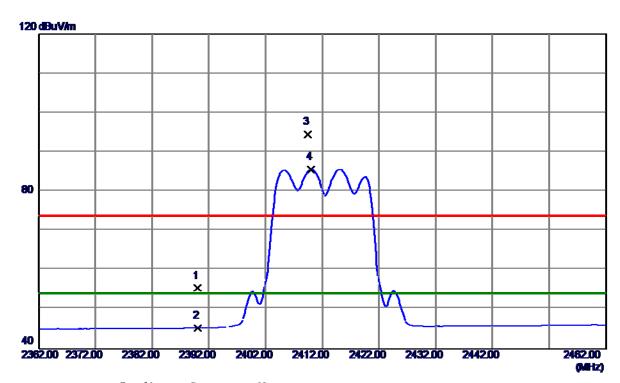
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3216. 0200 | 50.43 | 2.70 | 53. 13 | 54.00 | -0.87 | AVG | |
| 2 | 3216.0700 | 52. 38 | 2.70 | 55. 08 | 74.00 | -18.92 | Peak | |

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Horizontal



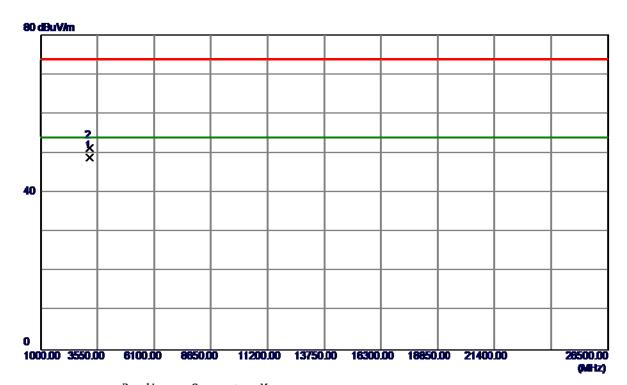
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 22. 45 | 32. 99 | 55. 44 | 74.00 | -18.56 | Peak | |
| 2 | 2390. 0000 | 12. 27 | 32. 99 | 45. 26 | 54.00 | -8.74 | AVG | |
| 3 | 2409. 4000 | 61. 43 | 33. 09 | 94. 52 | 74.00 | 20. 52 | Peak | No Limit |
| 4 * | 2410. 0000 | 52. 55 | 33. 09 | 85.64 | 54.00 | 31.64 | AVG | No Limit |

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Horizontal



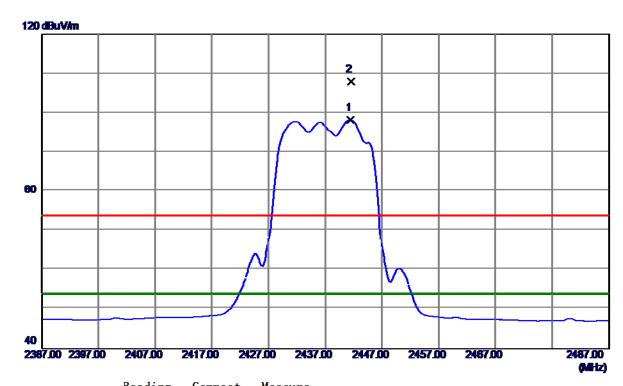
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3216. 0260 | 46. 21 | 2.70 | 48. 91 | 54.00 | -5.09 | AVG | |
| 2 | 3216. 0600 | 48. 59 | 2.70 | 51. 29 | 74.00 | -22.71 | Peak | |

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Vertical



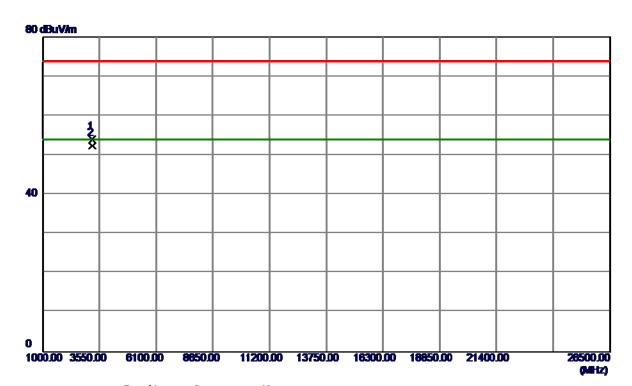
| No. | Freq. | Level | Factor | measure ment | Limit | Margin | | |
|-----|------------|--------|--------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2441. 4000 | 64.88 | 33. 25 | 98. 13 | 54.00 | 44.13 | AVG | No Limit |
| 2 | 2441. 5000 | 74. 59 | 33. 25 | 107.84 | 74.00 | 33.84 | Peak | No Limit |
| | | | | | | | | |

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Vertical



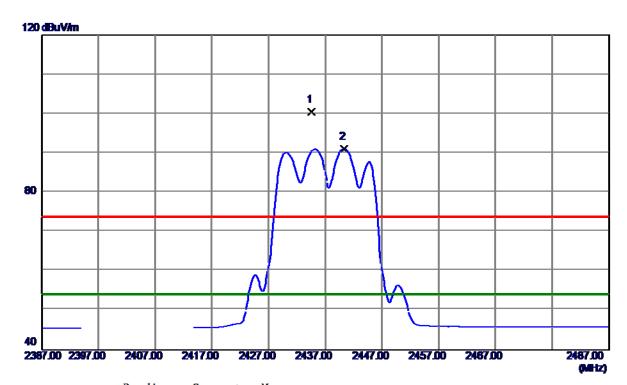
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 3250 | 51.41 | 2.74 | 54. 15 | 74.00 | -19.85 | Peak | |
| 2 * | 3249. 3600 | 49.77 | 2.74 | 52. 51 | 54.00 | -1.49 | AVG | |

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Horizontal



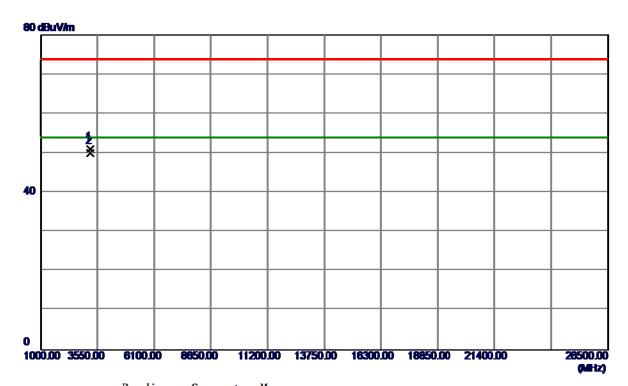
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2434.6000 | 67. 19 | 33. 21 | 100.40 | 74.00 | 26. 40 | Peak | No Limit |
| 2 * | 2440. 3000 | 57.85 | 33. 24 | 91.09 | 54.00 | 37.09 | AVG | No Limit |

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Horizontal



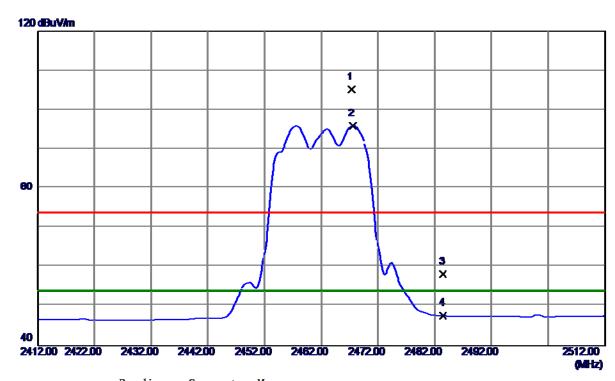
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 3540 | 48. 31 | 2.74 | 51.05 | 74.00 | -22.95 | Peak | |
| 2 * | 3249. 3540 | 47. 29 | 2.74 | 50.03 | 54.00 | -3.97 | AVG | |

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Vertical



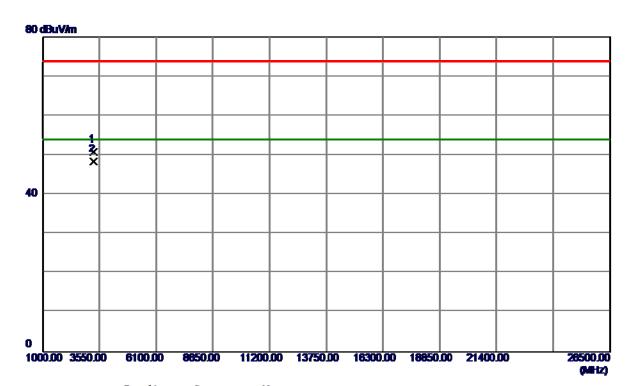
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2467. 3000 | 71. 77 | 33. 38 | 105. 15 | 74.00 | 31. 15 | Peak | No Limit |
| 2 * | 2467.6000 | 62.47 | 33. 38 | 95. 85 | 54.00 | 41.85 | AVG | No Limit |
| 3 | 2483. 5000 | 24.71 | 33. 46 | 58. 17 | 74.00 | -15.83 | Peak | |
| 4 | 2483. 5000 | 14. 16 | 33. 46 | 47.62 | 54.00 | -6. 38 | AVG | |
| | | | | | | | | |

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Vertical



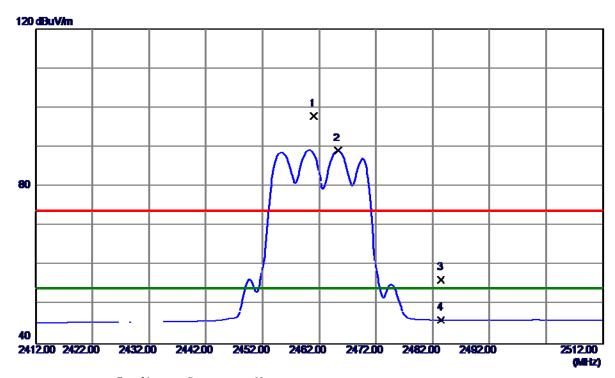
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3282. 6850 | 48.08 | 2.79 | 50. 87 | 74.00 | -23. 13 | Peak | |
| 2 * | 3282. 7000 | 45. 76 | 2.79 | 48. 55 | 54.00 | -5.45 | AVG | |

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Horizontal



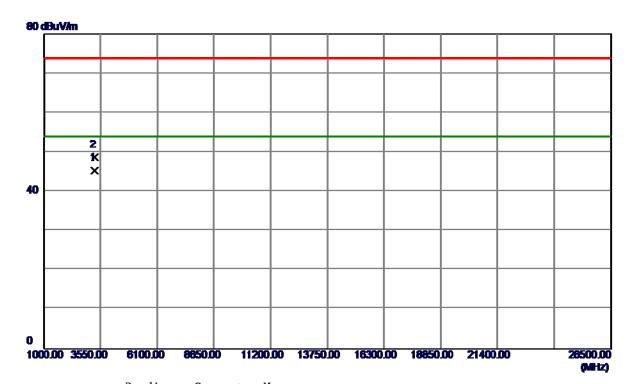
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|----------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2461.0000 | 64. 55 | 33. 34 | 97.89 | 74.00 | 23.89 | Peak | No Limit |
| 2 * | 2465. 3000 | 55.71 | 33. 37 | 89. 08 | 54.00 | 35. 0 8 | AVG | No Limit |
| 3 | 2483. 5000 | 22.84 | 33. 46 | 56. 30 | 74.00 | -17.70 | Peak | |
| 4 | 2483. 5000 | 12. 61 | 33. 46 | 46.07 | 54.00 | -7.93 | AVG | |

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Horizontal



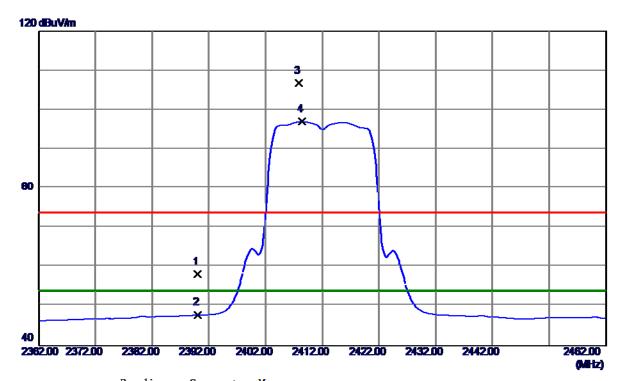
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3282. 6920 | 42.71 | 2.79 | 45. 50 | 54.00 | -8.50 | AVG | |
| 2 | 3282. 7060 | 45. 98 | 2. 79 | 48. 77 | 74.00 | -25.23 | Peak | |

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Vertical



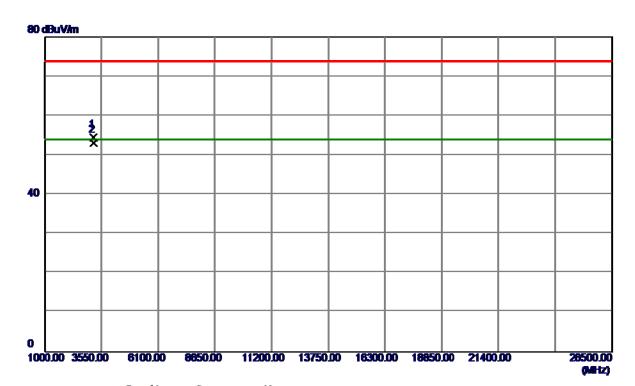
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|------------------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 25. 30 | 32. 99 | 58. 29 | 74.00 | 15.71 | Peak | |
| 2 | 2390. 0000 | 14.82 | 32. 99 | 47.81 | 54.00 | - 6. 1 9 | AVG | |
| 3 | 2407.9000 | 73.64 | 33. 08 | 106.72 | 74.00 | 32.72 | Peak | No Limit |
| 4 * | 2408. 4000 | 63. 81 | 33. 08 | 96. 89 | 54.00 | 42.89 | AVG | No Limit |

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Vertical



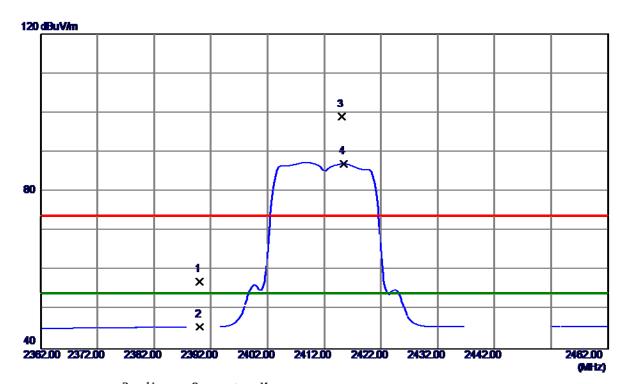
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3215. 9800 | 51.81 | 2.70 | 54.51 | 74.00 | -19.49 | Peak | |
| 2 * | 3216. 0200 | 50.60 | 2.70 | 53. 30 | 54.00 | -0.70 | AVG | |

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Horizontal



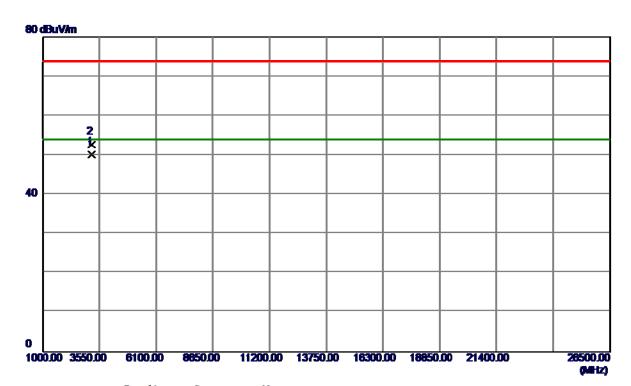
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 24. 15 | 32. 99 | 57. 14 | 74.00 | -16.86 | Peak | |
| 2 | 2390. 0000 | 12. 59 | 32. 99 | 45. 58 | 54.00 | -8.42 | AVG | |
| 3 | 2415. 1000 | 65. 95 | 33. 11 | 99. 06 | 74.00 | 25.06 | Peak | No Limit |
| 4 * | 2415. 4000 | 53. 91 | 33. 12 | 87. 03 | 54.00 | 33.03 | AVG | No Limit |

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Horizontal



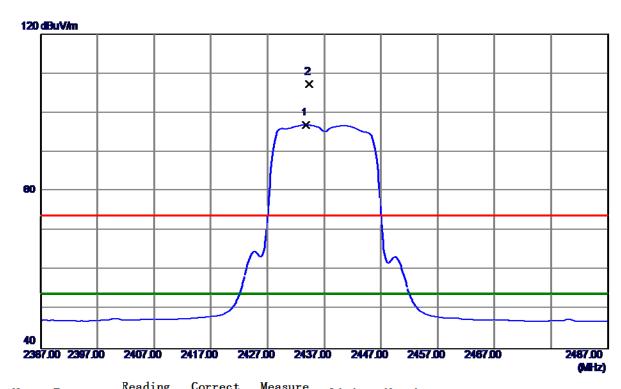
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3216. 0260 | 47.47 | 2.70 | 50. 17 | 54.00 | -3.83 | AVG | |
| 2 | 3216. 0800 | 50.06 | 2.70 | 52. 76 | 74.00 | -21.24 | Peak | |

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Vertical



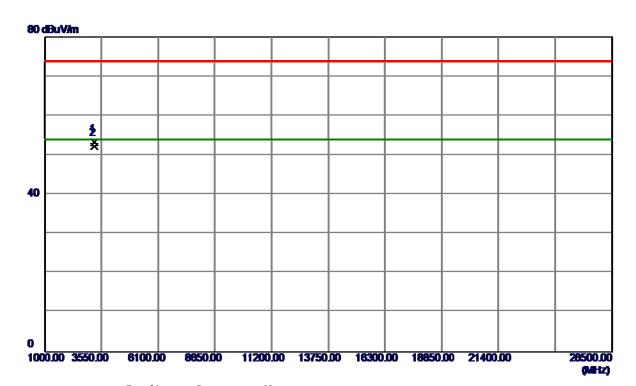
| No. | Freq. | Level | Factor | measure ment | Limit | Margin | | |
|-----|------------|--------|--------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2433. 8000 | 63.64 | 33. 21 | 96.85 | 54.00 | 42.85 | AVG | No Limit |
| 2 | 2434. 3000 | 74.05 | 33. 21 | 107.26 | 74.00 | 33. 26 | Peak | No Limit |

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Vertical



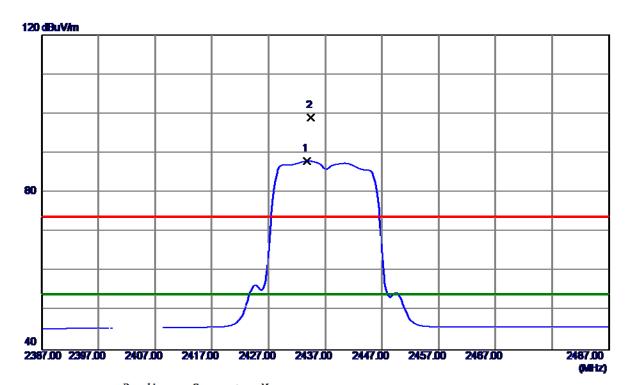
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 3100 | 50. 67 | 2.74 | 53. 41 | 74.00 | -20.59 | Peak | |
| 2 * | 3249. 3550 | 49.66 | 2.74 | 52.40 | 54.00 | -1.60 | AVG | |

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Horizontal



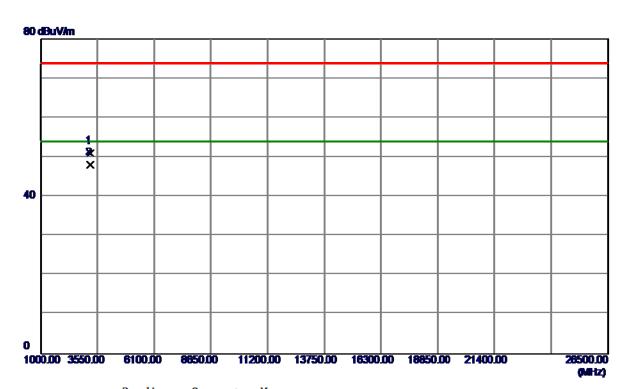
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2433. 8000 | 54.78 | 33. 21 | 87. 99 | 54.00 | 33.99 | AVG | No Limit |
| 2 | 2434. 4000 | 65.88 | 33. 21 | 99. 09 | 74.00 | 25.09 | Peak | No Limit |

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Horizontal



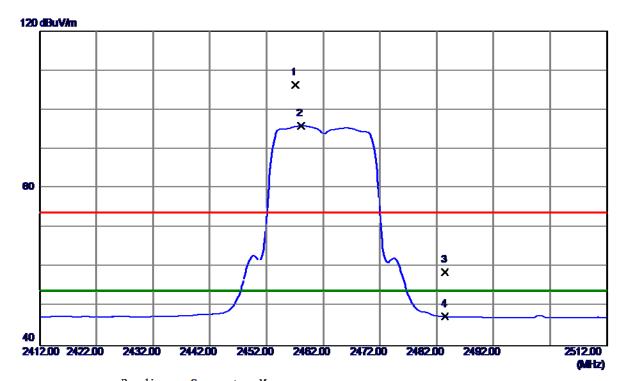
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 3500 | 48. 38 | 2.74 | 51. 12 | 74.00 | -22.88 | Peak | |
| 2 * | 3249. 3560 | 45. 38 | 2.74 | 48. 12 | 54.00 | -5.88 | AVG | |

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Vertical



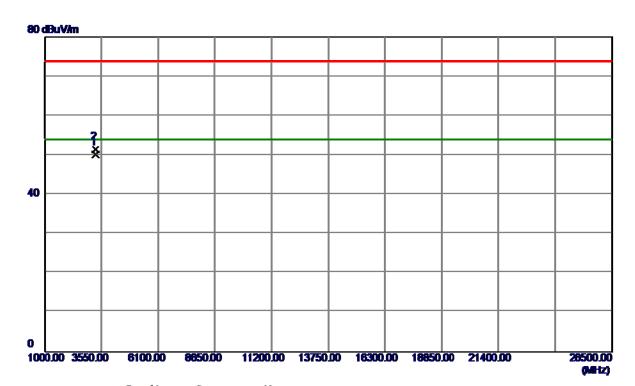
| etector Comment |
|-----------------|
| eak No Limit |
| VG No Limit |
| eak |
| VG |
| |

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Vertical



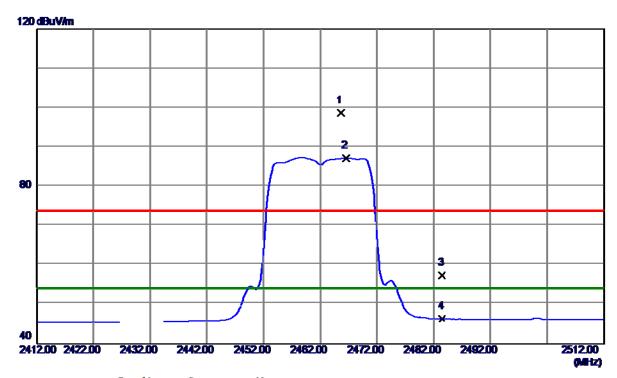
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3282.6550 | 47.46 | 2.79 | 50. 25 | 54.00 | -3.75 | AVG | |
| 2 | 3282. 6800 | 48.79 | 2.79 | 51. 58 | 74.00 | -22.42 | Peak | |

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Horizontal



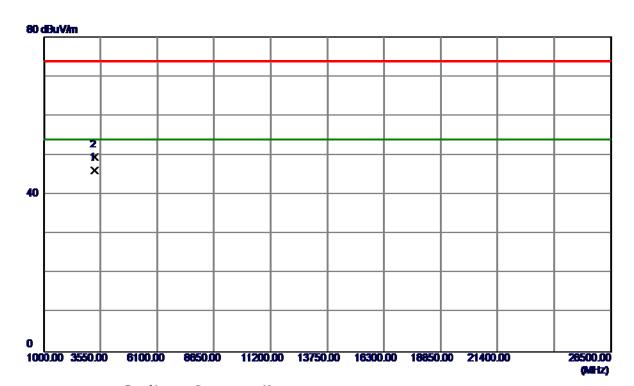
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2465. 7000 | 65. 28 | 33. 37 | 98. 65 | 74.00 | 24.65 | Peak | No Limit |
| 2 * | 2466. 6000 | 53.86 | 33. 37 | 87. 23 | 54.00 | 33. 23 | AVG | No Limit |
| 3 | 2483. 5000 | 24. 05 | 33. 46 | 57. 51 | 74.00 | -16.49 | Peak | |
| 4 | 2483. 5000 | 12. 91 | 33. 46 | 46. 37 | 54.00 | -7.63 | AVG | |

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Horizontal



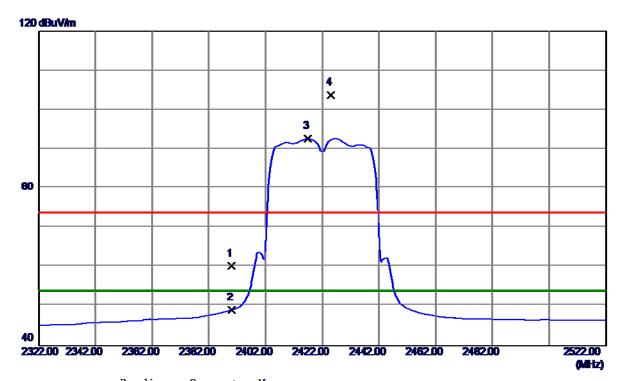
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3282. 6920 | 43. 42 | 2.79 | 46. 21 | 54.00 | -7.79 | AVG | |
| 2 | 3282. 6820 | 46. 80 | 2. 79 | 49. 59 | 74.00 | -24.41 | Peak | |

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Vertical



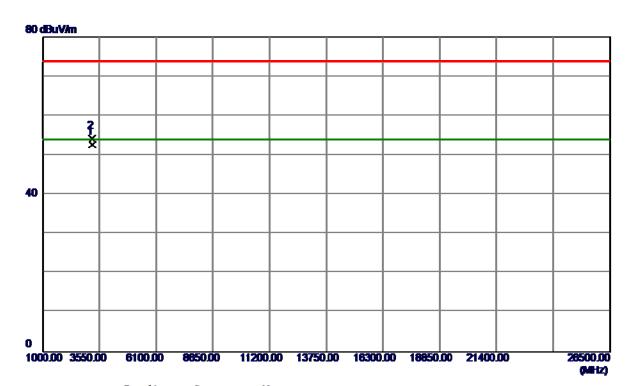
| Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|------------|---|-------------------|--|--|---|--|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 2390. 0000 | 27. 27 | 32. 99 | 60. 26 | 74.00 | 13.74 | Peak | |
| 2390. 0000 | 16. 16 | 32. 99 | 49. 15 | 54.00 | -4.85 | AVG | |
| 2416. 8000 | 59. 50 | 33. 12 | 92.62 | 54.00 | 38. 62 | AVG | No Limit |
| 2425. 2000 | 70.46 | 33. 16 | 103.62 | 74.00 | 29.62 | Peak | No Limit |
| | MHz 2390. 0000 2390. 0000 2416. 8000 | Freq. Level | Hreq. Level Factor MHz dBuV/m dB 2390.0000 27.27 32.99 2390.0000 16.16 32.99 2416.8000 59.50 33.12 | Hreq. Level Factor ment MHz dBuV/m dB dBuV/m 2390.0000 27.27 32.99 60.26 2390.0000 16.16 32.99 49.15 2416.8000 59.50 33.12 92.62 | Hereq. Level Factor ment Hull Hard BuV/m dB dBuV/m dB dBuV/m dBuV/m 2390.0000 27.27 32.99 60.26 74.00 2390.0000 16.16 32.99 49.15 54.00 2416.8000 59.50 33.12 92.62 54.00 | Hereq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dBuV/m dB 2390.0000 27.27 32.99 60.26 74.00 13.74 2390.0000 16.16 32.99 49.15 54.00 -4.85 2416.8000 59.50 33.12 92.62 54.00 38.62 | Hereq. Level Factor ment Limit Margin MHz dBuV/m dB dBuV/m dB WV/m dB Detector 2390.0000 27.27 32.99 60.26 74.00 13.74 Peak 2390.0000 16.16 32.99 49.15 54.00 -4.85 AVG 2416.8000 59.50 33.12 92.62 54.00 38.62 AVG |

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Vertical



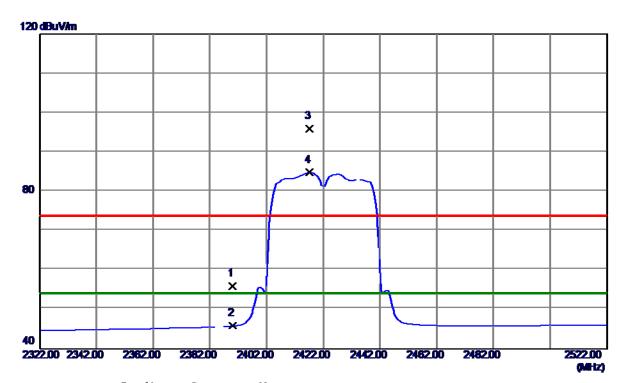
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3229. 3500 | 50.08 | 2.72 | 52. 8 0 | 54.00 | -1.20 | AVG | |
| 2 | 3229. 4050 | 51.48 | 2.72 | 54. 20 | 74.00 | -19.80 | Peak | |

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Horizontal



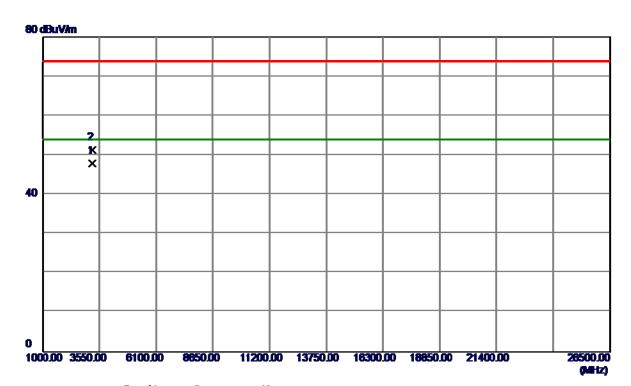
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|------------------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390. 0000 | 22. 94 | 32. 99 | 55. 93 | 74.00 | -18.07 | Peak | |
| 2 | 2390. 0000 | 12.90 | 32. 99 | 45.89 | 54.00 | - 8. 1 1 | AVG | |
| 3 | 2417. 2000 | 62.86 | 33. 12 | 95. 98 | 74.00 | 21.98 | Peak | No Limit |
| 4 * | 2417. 2000 | 51. 76 | 33. 12 | 84.88 | 54.00 | 30.88 | AVG | No Limit |

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Horizontal



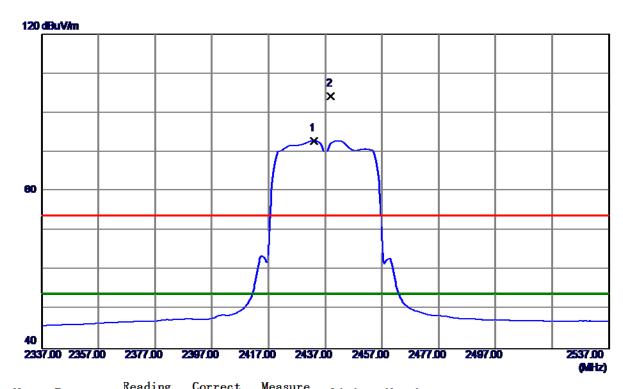
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3229. 3700 | 45. 35 | 2.72 | 48. 07 | 54.00 | -5. 93 | AVG | |
| 2 | 3229. 4120 | 48. 61 | 2.72 | 51. 33 | 74.00 | -22.67 | Peak | |

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Vertical



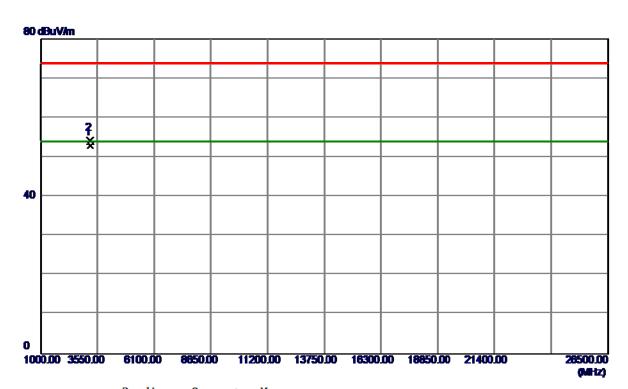
| No. | Freq. | Level | Factor | measure | Limit | Margin | | |
|-----|------------|--------|--------|---------|--------|---------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2433. 0000 | 59. 68 | 33. 20 | 92.88 | 54.00 | 38.88 | AVG | No Limit |
| 2 | 2439. 0000 | 70. 93 | 33. 23 | 104.16 | 74.00 | 30. 16 | Peak | No Limit |
| | | | | | | | | |

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Vertical



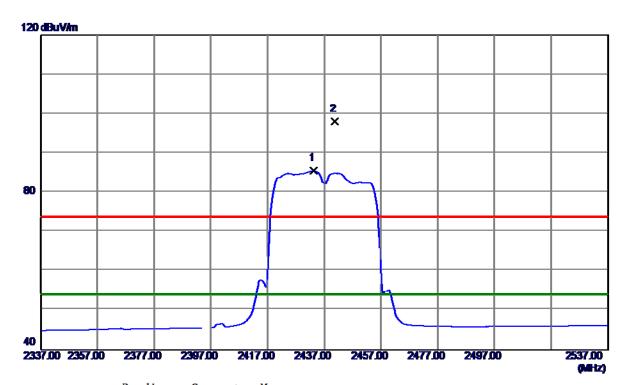
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 3249. 3500 | 50.42 | 2.74 | 53. 16 | 54.00 | -0.84 | AVG | |
| 2 | 3249. 4150 | 51. 50 | 2.74 | 54. 24 | 74.00 | -19.76 | Peak | |

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Horizontal



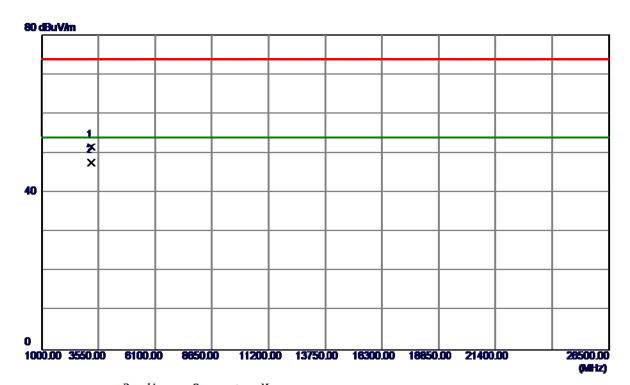
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2433. 2000 | 52. 34 | 33. 20 | 85. 54 | 54.00 | 31.54 | AVG | No Limit |
| 2 | 2440. 8000 | 64.84 | 33. 24 | 98. 08 | 74.00 | 24.08 | Peak | No Limit |

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Horizontal



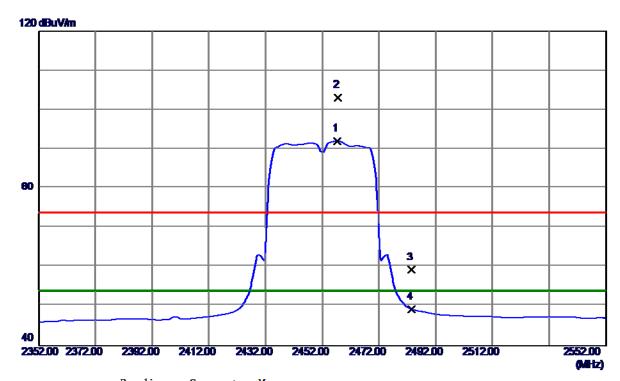
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3249. 3540 | 48. 86 | 2.74 | 51.60 | 74.00 | -22.40 | Peak | |
| 2 * | 3249. 3720 | 44.90 | 2.74 | 47.64 | 54.00 | -6. 36 | AVG | |

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Vertical



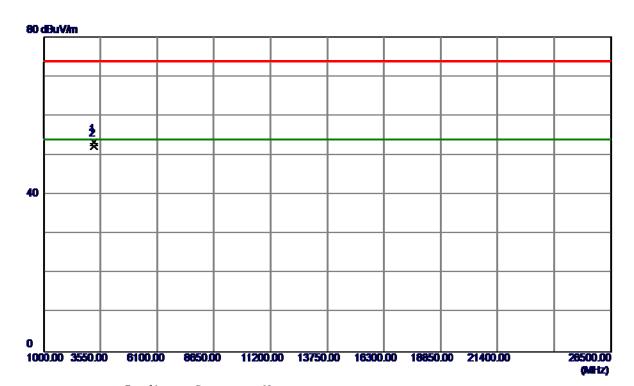
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2457. 4000 | 58.71 | 33. 33 | 92.04 | 54.00 | 38. 04 | AVG | No Limit |
| 2 | 2457.6000 | 69.65 | 33. 33 | 102.98 | 74.00 | 28.98 | Peak | No Limit |
| 3 | 2483. 5000 | 25. 85 | 33. 46 | 59. 31 | 74.00 | -14.69 | Peak | |
| 4 | 2483. 5000 | 15. 81 | 33. 46 | 49. 27 | 54.00 | -4.73 | AVG | |
| | | | | | | | | |

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Vertical



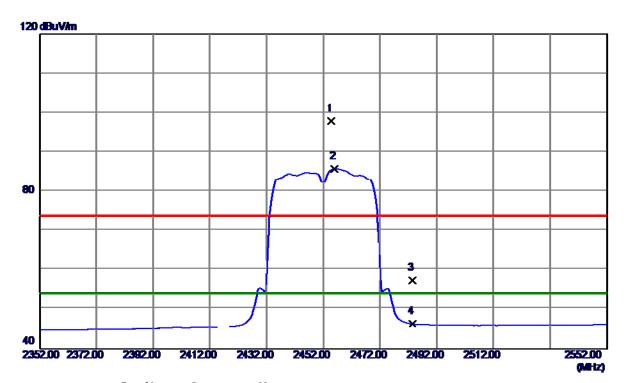
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 3269. 3320 | 50.69 | 2.77 | 53. 46 | 74.00 | -20.54 | Peak | |
| 2 * | 3269. 3740 | 49. 52 | 2.77 | 52. 29 | 54.00 | -1.71 | AVG | |

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Horizontal



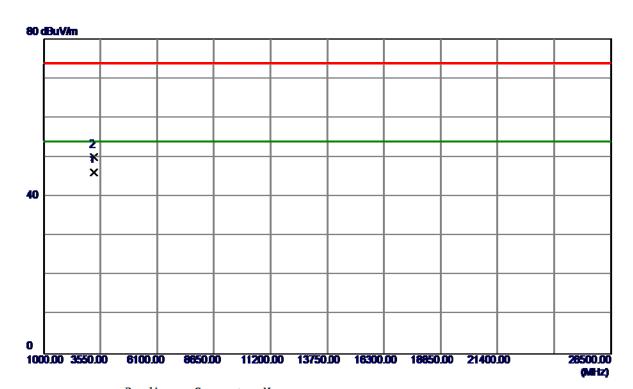
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2454.8000 | 64.67 | 33. 31 | 97. 98 | 74.00 | 23.98 | Peak | No Limit |
| 2 * | 2456. 0000 | 52. 50 | 33. 32 | 85. 82 | 54.00 | 31.82 | AVG | No Limit |
| 3 | 2483. 5000 | 24. 03 | 33. 46 | 57.49 | 74.00 | -16.51 | Peak | |
| 4 | 2483. 5000 | 12.89 | 33. 46 | 46. 35 | 54.00 | -7.65 | AVG | |

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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 * | 3269. 3640 | 43. 54 | 2.77 | 46. 31 | 54.00 | -7.69 | AVG | |
| 2 | 3269. 4060 | 47.38 | 2.77 | 50. 15 | 74.00 | -23.85 | Peak | |

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| APPENDIX E - BANDWIDTH |
|------------------------|
| |
| |
| |
| |
| |
| |
| |
| |
| |

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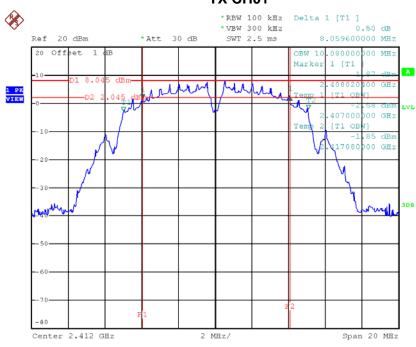




Test Mode: TX B Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 8.06 | 10.08 | 500 | Complies |
| 2437 | 8.06 | 10.04 | 500 | Complies |
| 2462 | 8.10 | 10.12 | 500 | Complies |

TX CH01

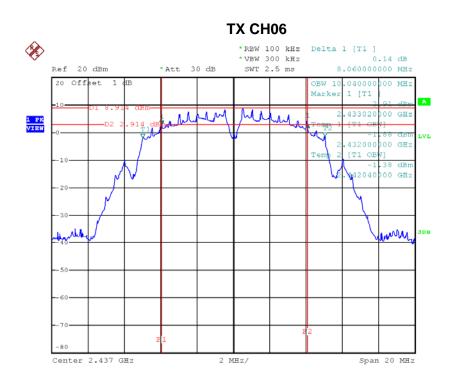


Date: 24.JAN.2018 11:03:59

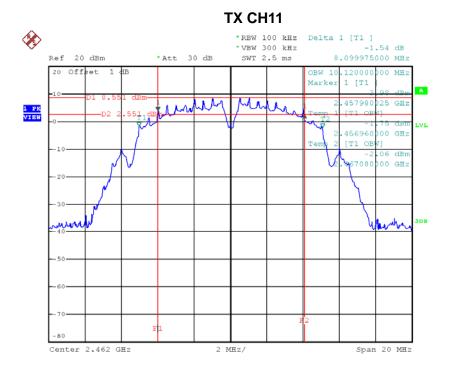
Report No.: BTL-FCCP-1-1712C022 Page 121 of 193







Date: 24.JAN.2018 13:38:05



Date: 24.JAN.2018 13:39:30

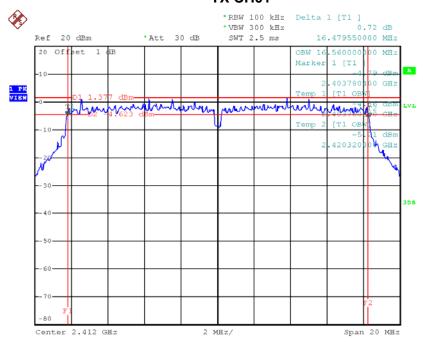




Test Mode: TX G Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 16.48 | 16.56 | 500 | Complies |
| 2437 | 16.44 | 16.52 | 500 | Complies |
| 2462 | 16.41 | 16.52 | 500 | Complies |

TX CH01

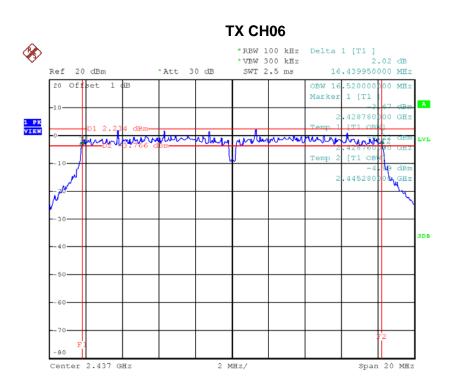


Date: 24.JAN.2018 13:41:39

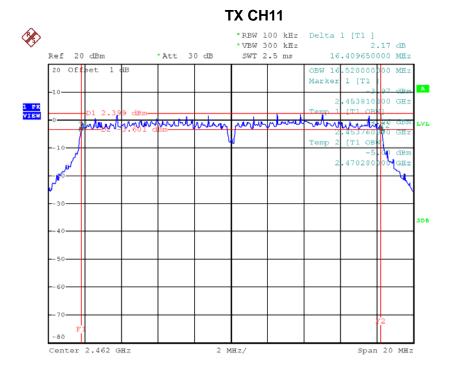
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Date: 24.JAN.2018 13:42:55



Date: 24.JAN.2018 13:44:12

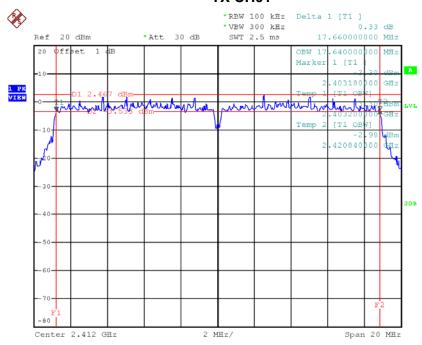




Test Mode: TX N-20MHz Mode_CH01/06/11

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2412 | 17.66 | 17.64 | 500 | Complies |
| 2437 | 17.66 | 17.64 | 500 | Complies |
| 2462 | 17.67 | 17.68 | 500 | Complies |

TX CH01

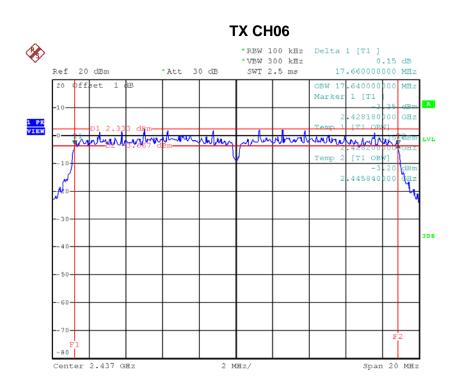


Date: 24.JAN.2018 13:56:19

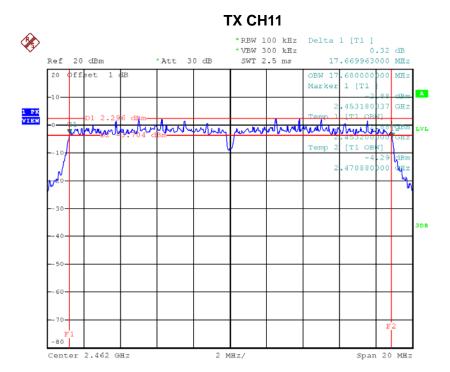
Report No.: BTL-FCCP-1-1712C022 Page 125 of 193







Date: 24.JAN.2018 13:58:14



Date: 24.JAN.2018 14:00:39

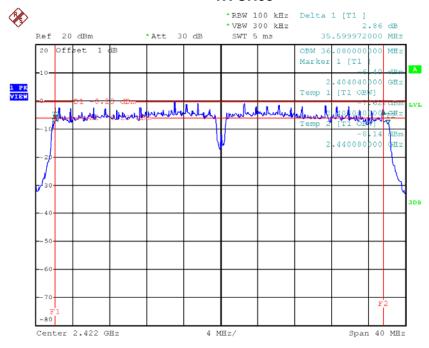




Test Mode: TX N-40MHz Mode_CH03/06/09

| Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|--------------------|------------------------|--------------------------|---------------------|-------------|
| 2422 | 35.60 | 36.08 | 500 | Complies |
| 2437 | 35.84 | 36.08 | 500 | Complies |
| 2452 | 35.83 | 36.08 | 500 | Complies |

TX CH03

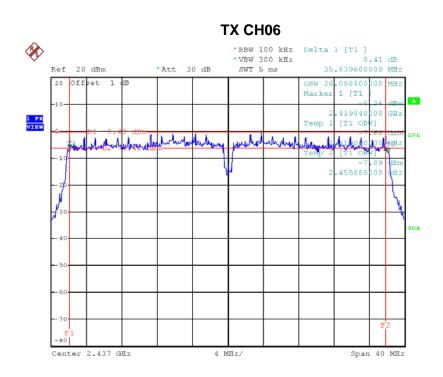


Date: 24.JAN.2018 14:06:29

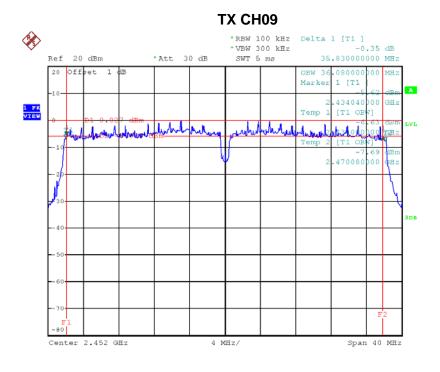
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Date: 24.JAN.2018 14:08:39



Date: 24.JAN.2018 14:10:22





| 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 | 21.73 | 0.1489 | 30.00 | 1.00 | Complies | |
| 2437 | 21.93 | 0.1560 | 30.00 | 1.00 | Complies | |
| 2462 | 21.76 | 0.1500 | 30.00 | 1.00 | Complies | |

| Test Mode :TX G Mode_CH01/06/11_ANT 1 | | | | | | |
|---------------------------------------|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 22.06 | 0.1607 | 30.00 | 1.00 | Complies | |
| 2437 | 25.94 | 0.3926 | 30.00 | 1.00 | Complies | |
| 2462 | 24.52 | 0.2831 | 30.00 | 1.00 | Complies | |

| Test Mode :TX G Mode_CH01/06/11_ANT 2 | | | | | | |
|---------------------------------------|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 27.40 | 0.5495 | 30.00 | 1.00 | Complies | |
| 2437 | 26.88 | 0.4875 | 30.00 | 1.00 | Complies | |
| 2462 | 26.83 | 0.4819 | 30.00 | 1.00 | Complies | |

| Test Mode :TX G Mode_CH01/06/11_Total | | | | | | |
|---------------------------------------|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 28.51 | 0.7102 | 30.00 | 1.00 | Complies | |
| 2437 | 29.45 | 0.8802 | 30.00 | 1.00 | Complies | |
| 2462 | 28.84 | 0.7651 | 30.00 | 1.00 | Complies | |

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| Test Mode :TX N20 Mode_CH01/06/11_ANT 1 | | | | | | |
|---|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 25.58 | 0.3614 | 30.00 | 1.00 | Complies | |
| 2437 | 24.14 | 0.2594 | 30.00 | 1.00 | Complies | |
| 2462 | 25.29 | 0.3381 | 30.00 | 1.00 | Complies | |

| Test Mode :TX N20 Mode_CH01/06/11_ANT 2 | | | | | | |
|---|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 25.93 | 0.3917 | 30.00 | 1.00 | Complies | |
| 2437 | 27.25 | 0.5309 | 30.00 | 1.00 | Complies | |
| 2462 | 26.01 | 0.3990 | 30.00 | 1.00 | Complies | |

| Test Mode :TX N20 Mode_CH01/06/11_Total | | | | | | |
|---|-------------|-----------|------------|------------|----------|--|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result | |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result | |
| 2412 | 28.77 | 0.7532 | 30.00 | 1.00 | Complies | |
| 2437 | 28.98 | 0.7903 | 30.00 | 1.00 | Complies | |
| 2462 | 28.68 | 0.7371 | 30.00 | 1.00 | Complies | |

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| Test Mode :TX N40 Mode_CH03/06/09_ANT 1 | | | | | |
|---|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result |
| 2422 | 24.02 | 0.2523 | 30.00 | 1.00 | Complies |
| 2437 | 26.15 | 0.4121 | 30.00 | 1.00 | Complies |
| 2452 | 26.72 | 0.4699 | 30.00 | 1.00 | Complies |

| Test Mode :TX N40 Mode_CH03/06/09_ANT 2 | | | | | |
|---|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Dogult |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | Result |
| 2422 | 27.27 | 0.5333 | 30.00 | 1.00 | Complies |
| 2437 | 25.06 | 0.3206 | 30.00 | 1.00 | Complies |
| 2452 | 24.68 | 0.2938 | 30.00 | 1.00 | Complies |

| Test Mode :TX N40 Mode_CH03/06/09_Total | | | | | |
|---|-------------|-----------|------------|------------|----------|
| Frequency | Conducted | Conducted | Max. Limit | Max. Limit | Result |
| (MHz) | Power (dBm) | Power (W) | (dBm) | (W) | |
| 2422 | 28.95 | 0.7857 | 30.00 | 1.00 | Complies |
| 2437 | 28.65 | 0.7327 | 30.00 | 1.00 | Complies |
| 2452 | 28.83 | 0.7637 | 30.00 | 1.00 | Complies |

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| APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION |
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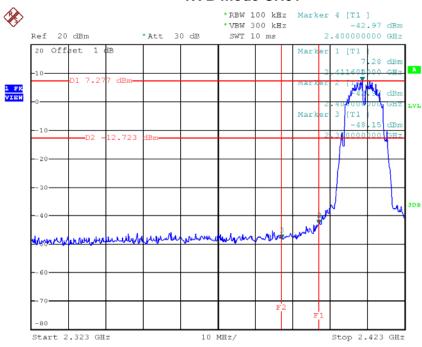
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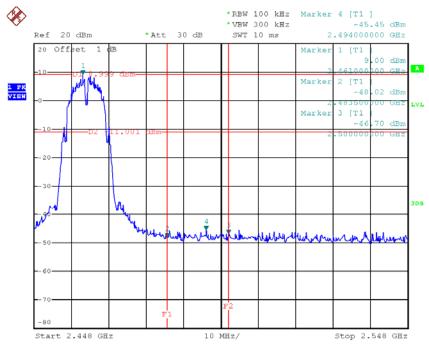






Date: 24.JAN.2018 11:04:06

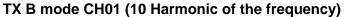
TX B mode CH11

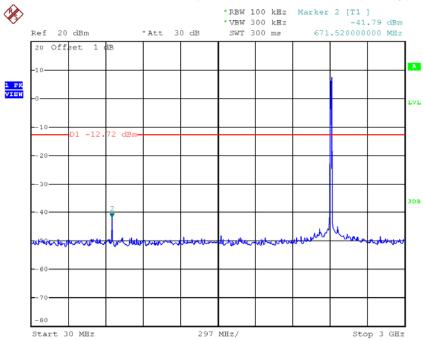


Date: 24.JAN.2018 13:39:37

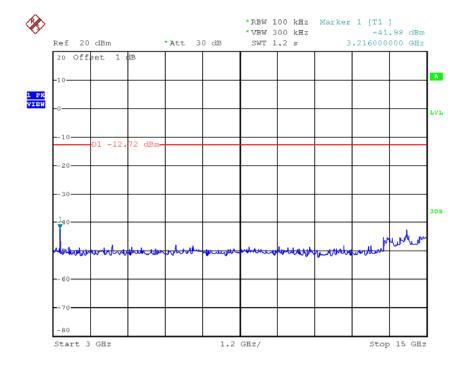








Date: 24.JAN.2018 11:04:19

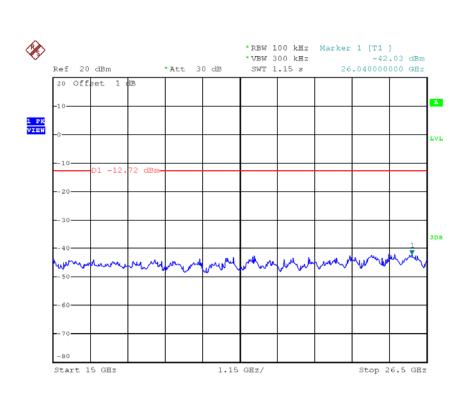


Date: 24.JAN.2018 11:04:26

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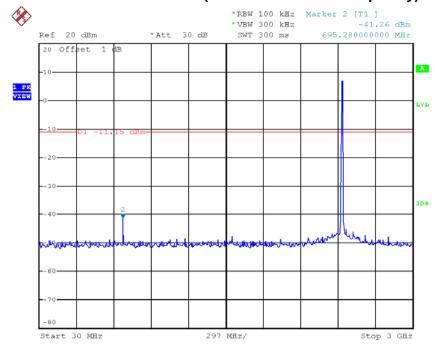






Date: 24.JAN.2018 11:04:33

TX B mode CH06 (10 Harmonic of the frequency)

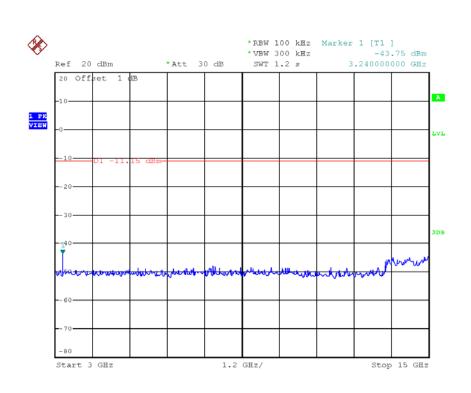


Date: 24.JAN.2018 13:38:25

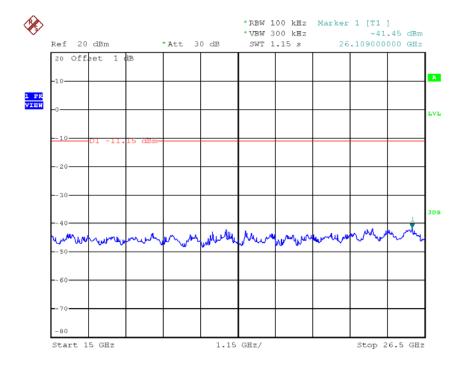
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Date: 24.JAN.2018 13:38:32

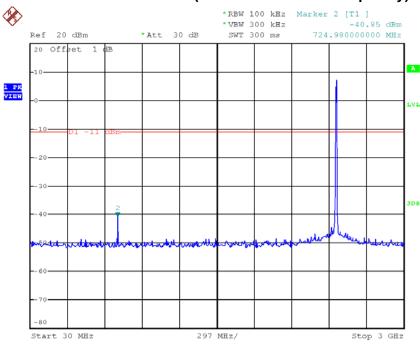


Date: 24.JAN.2018 13:38:39

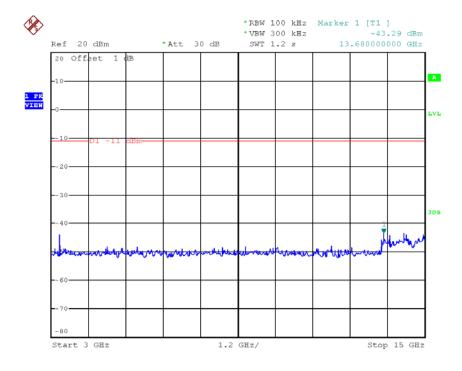








Date: 24.JAN.2018 13:39:50

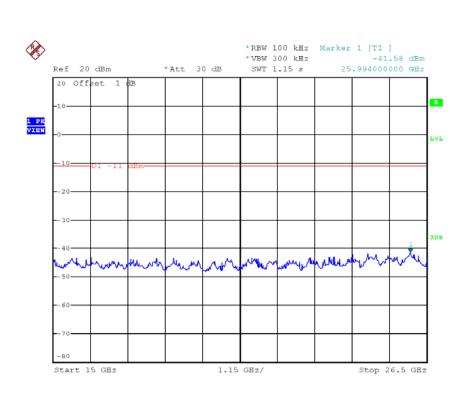


Date: 24.JAN.2018 13:39:57

Report No.: BTL-FCCP-1-1712C022







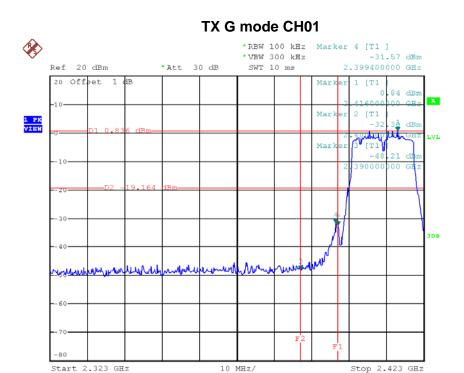
Date: 24.JAN.2018 13:40:04

Report No.: BTL-FCCP-1-1712C022









Date: 24.JAN.2018 13:41:46

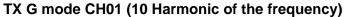
Date: 24.JAN.2018 13:44:19

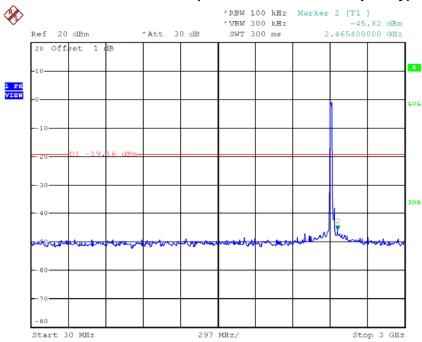
Start 2.448 GHz

Stop 2.548 GHz

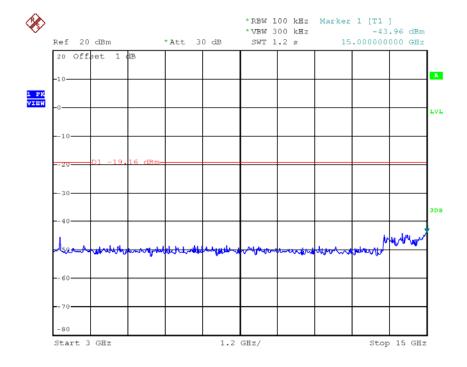








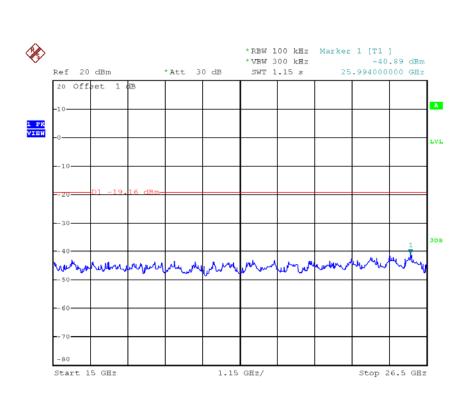
Date: 24.JAN.2018 13:41:59



Date: 24.JAN.2018 13:42:06

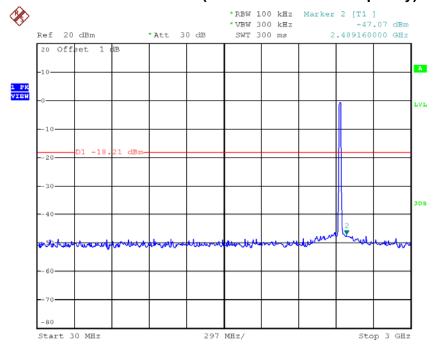






Date: 24.JAN.2018 13:42:13

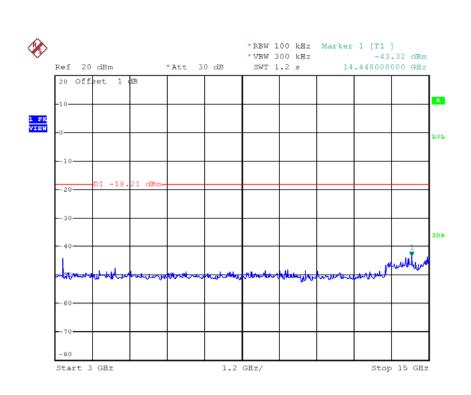
TX G mode CH06 (10 Harmonic of the frequency)



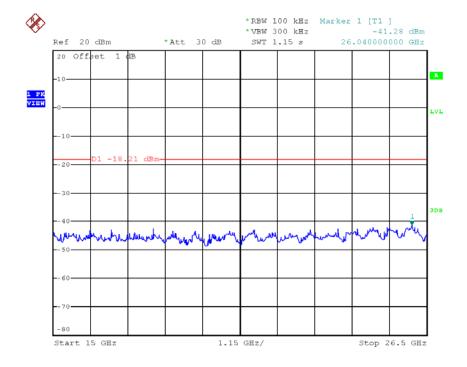
Date: 24.JAN.2018 13:43:15







Date: 24.JAN.2018 13:43:22

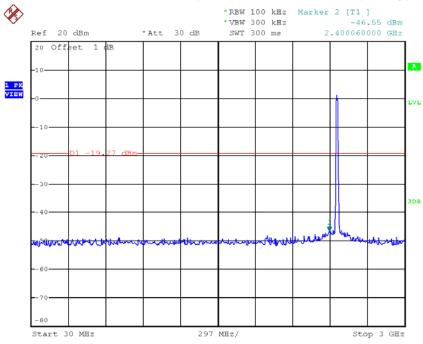


Date: 24.JAN.2018 13:43:29

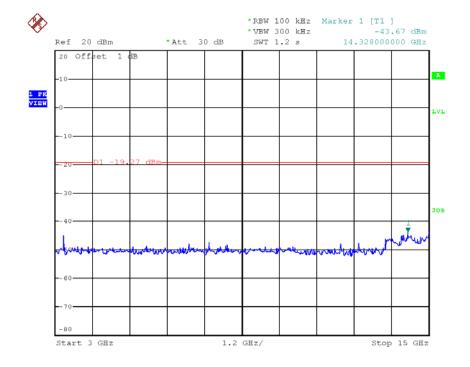








Date: 24.JAN.2018 13:44:32

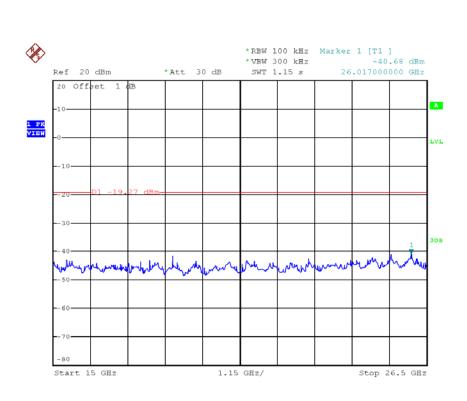


Date: 24.JAN.2018 13:44:39

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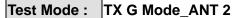


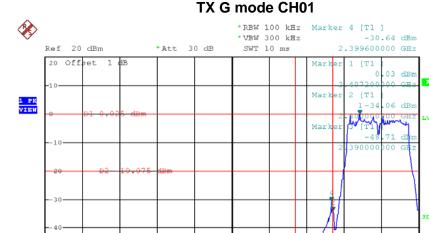


Date: 24.JAN.2018 13:44:46







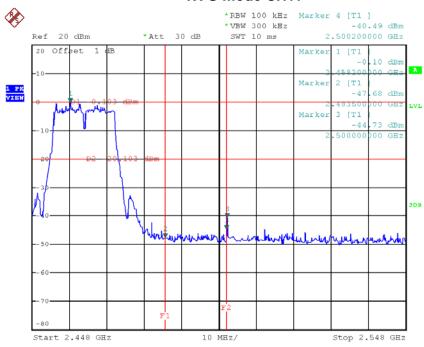


Date: 24.JAN.2018 13:46:51

Start 2.323 GHz

TX G mode CH11

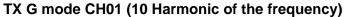
Stop 2.423 GHz

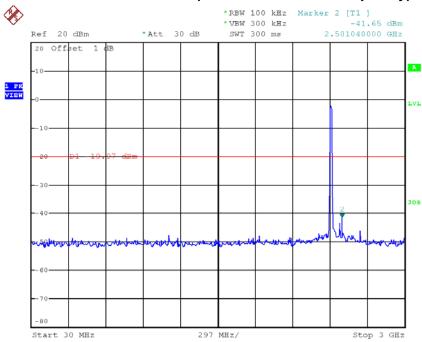


Date: 24.JAN.2018 13:49:27

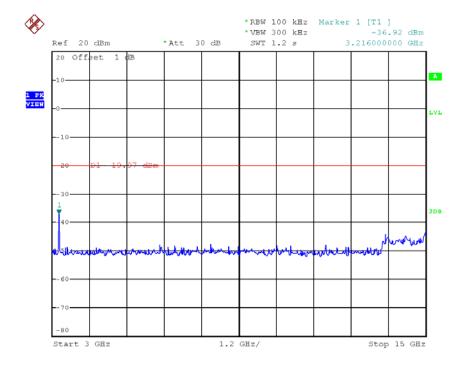








Date: 24.JAN.2018 13:47:04



Date: 24.JAN.2018 13:47:11