



FCC ID: 2ABZM-IUAPACL

This report concerns: Original Grant

Project No. : 2005C192

Equipment: 802.11ac Dual-Band Access Point

Brand Name : IP-COM
Test Model : iUAP-AC-LITE

Series Model : N/A

Applicant: SHENZHEN IP-COM NETWORKS CO.,LTD.

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Manufacturer : SHENZHEN IP-COM NETWORKS CO.,LTD.

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Date of Receipt : May 29, 2020

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Report Version : R00

Test Sample : Engineering Sample No.: DG20200529161

Standard(s) : FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

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

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Limitation

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

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Jul. 17, 2020 |



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC Part15, Subpart C (15.247) | | | | | | | |
|-------------------------------------|-----------------------------------|--|----------|---------|--|--|--|
| Standard(s) Section | Test Item | Test Result | Judgment | Remark | | | |
| 15.207 | AC Power Line Conducted Emissions | APPENDIX A | PASS | | | | |
| 15.247(d) 15.205(a) 15.209(a) | Radiated Emissions | APPENDIX B APPENDIX C APPENDIX D | PASS | | | | |
| 15.247(a)(2) | Bandwidth | APPENDIX E | PASS | | | | |
| 15.247(b)(3) | Maximum Output Power | APPENDIX F | PASS | | | | |
| 15.247(d) | Conducted Spurious Emissions | APPENDIX G | PASS | | | | |
| 15.247(e) Power Spectral Density | | APPENDIX H | PASS | | | | |
| 15.203 | Antenna Requirement | | PASS | Note(2) | | | |

Note:

- (1) "N/A" denotes test is not applicable in this test report.(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



1.1 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 Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|-----------|--------|-----------------------------|---------|
| DG-C02 | CISPR | 150kHz ~ 30MHz | 2.60 |

B. Radiated emissions test:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) |
|-----------|--------|-----------------------------|---------------|---------|
| | | 9kHz ~ 30MHz | V | 3.79 |
| | | 9kHz ~ 30MHz | Н | 3.57 |
| | | 30MHz ~ 200MHz | V | 4.88 |
| | CISPR | 30MHz ~ 200MHz | Н | 4.14 |
| DG-CB03 | | 200MHz ~ 1,000MHz | V | 4.62 |
| DG-CB03 | | 200MHz ~ 1,000MHz | Н | 4.80 |
| | | 1GHz ~ 6GHz | - | 4.58 |
| | | 6GHz ~ 18GHz | - | 5.18 |
| | | 18GHz ~ 26.5GHz | - | 3.62 |
| | | 26.5GHz ~ 40GHz | - | 4.00 |

C. Other Measurement:

| Parameter | Uncertainty |
|-----------------------------|-------------|
| Bandwidth | ±3.8 % |
| Maximum Output Power | ±0.95 dB |
| Conducted Spurious Emission | ±2.71 dB |
| Power Spectral Density | ±0.86 dB |
| Temperature | ±0.08 °C |
| Time | ±0.58 % |
| Supply voltages | ±0.3 % |

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



1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Test Voltage | Tested By |
|-----------------------------------|-------------|----------|------------------------------|----------------|
| AC Power Line Conducted Emissions | 25°C | 55% | AC 120V/60Hz AC 240V/50Hz | K WOK (IIIO |
| Radiated Emissions-9K-30MHz | 25°C | 60% | AC 120V/60Hz | Kwok Guo |
| Radiated Emissions-30 MHz to 1GHz | 25°C | 60% | AC 120V/60Hz | Kwok Guo |
| Radiated Emissions-Above 1000 MHz | 24°C | 60% | AC 120V/60Hz | Kwok Guo |
| Bandwidth | 25°C | 55% | DC 24V | Hayden Chen |
| Maximum output power | 25°C | 55% | DC 24V | Laughing Zhang |
| Conducted Spurious Emissions | 25°C | 55% | DC 24V | Hayden Chen |
| Power Spectral Density | 25°C | 55% | DC 24V | Hayden Chen |



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | 802.11ac Dual-Band Access Point |
|--|---|
| Brand Name | IP-COM |
| Test Model | iUAP-AC-LITE |
| Series Model | N/A |
| Model Difference(s) | N/A |
| Power Source | Supplied from PoE adapter. Model: BN060-P12024 |
| Power Rating | I/P: 100-240V~ 50/60Hz 0.3A O/P: 24V === 0.5A |
| Operation Frequency | 2412 MHz ~ 2462 MHz |
| Modulation Type | IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM |
| Bit Rate of Transmitter | IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps |
| Maximum Peak Output Power_Non Beamforming | IEEE 802.11b: 27.83 dBm (0.6067 W) IEEE 802.11g: 26.54 dBm (0.4508 W) IEEE 802.11n (HT20): 28.30 dBm (0.6761 W) IEEE 802.11n (HT40): 28.18 dBm (0.6577 W) |
| Maximum Peak Output Power_Beamforming | IEEE 802.11n (HT20): 27.94 dBm (0.6223 W) IEEE 802.11n (HT40): 27.96 dBm (0.6252 W) |
| Maximum Average Output Power_Non Beamforming | IEEE 802.11b: 23.73 dBm (0.2360 W) IEEE 802.11g: 21.41 dBm (0.1384 W) IEEE 802.11n (HT20): 19.77 dBm (0.0948 W) IEEE 802.11n (HT40): 20.56 dBm (0.1138 W) |
| Maximum Average Output Power_Beamforming | IEEE 802.11n (HT20): 18.84 dBm (0.0766 W) IEEE 802.11n (HT40): 20.44 dBm (0.1107 W) |

Note:

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

2. Channel List:

| | Sharifor Elec. | | | | | | | |
|---|--|--------------------|---------|--------------------|------------|--------------------|---------|--------------------|
| | CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20) CH03 - CH09 for IEEE 802.11n (HT40) | | | | | | | |
| ı | | | 01103 | - 01109 101 1 | LL 002.111 | 1 (111 70) | | |
| | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| ĺ | 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| ĺ | 02 | 2417 | 05 | 2432 | 80 | 2447 | 11 | 2462 |
| Ī | 03 | 2422 | 06 | 2437 | 09 | 2452 | | |

3. Antenna Specification:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | PIFA | N/A | 4.8 |
| 2 | N/A | N/A | PIFA | N/A | 4.3 |

Note:

- 1) This EUT supports CDD, and antenna gains are not equal, so the Directional gain = $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]dBi$, that is Directional gain= $10\log[(10^{4.8/20}+10^{4.3/20})^2/2]dBi$ =7.56. So the output power limit is 30-(7.56-6)=28.44, the power spectral density limit is 8-(7.56-6)=6.44.
- 2) Beamforming Gain: 3dB. So the Directional gain=3+4.8=7.80dB. So the output power limit is 30-(7.80-6)=28.20.



4. Table for Antenna Configuration:

| For Non Beamforming: | |
|----------------------|--|
| Operating Mode | |

| Operating Mode TX Mode | 1TX | 2TX |
|------------------------|------------|--------------------|
| IEEE 802.11b | V (Ant. 1) | - |
| IEEE 802.11g | V (Ant. 1) | - |
| IEEE 802.11n(HT20) | - | V (Ant. 1+ Ant. 2) |
| IEEE 802.11n(HT40) | - | V (Ant. 1+ Ant. 2) |

For Beamforming:

| Operating Mode TX Mode | 2TX |
|------------------------|--------------------|
| IEEE 802.11n(HT20) | V (Ant. 1+ Ant. 2) |
| IEEE 802.11n(HT40) | V (Ant. 1+ Ant. 2) |



2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| 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-20 MHz Mode Channel 01/06/11 | |
| Mode 4 | TX N-40 MHz Mode Channel 03/06/09 | |
| Mode 5 | TX N20 Mode Channel 06 | |

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

| AC power line conducted emissions test | | | | |
|--|------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 5 | TX N20 Mode Channel 06 | | | |

| Radiated emissions test - Below 1GHz | | | | |
|--------------------------------------|------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 5 | TX N20 Mode Channel 06 | | | |

| Radiated emissions test- Above 1GHz_Non Beamforming | | | |
|---|-----------------------------------|--|--|
| 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-20 MHz Mode Channel 01/06/11 | | |
| Mode 4 | TX N-40 MHz Mode Channel 03/06/09 | | |



| Output Power test_Non Beamforming | | | | |
|-----------------------------------|-----------------------------------|--|--|--|
| 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-20 MHz Mode Channel 01/06/11 | | | |
| Mode 4 | TX N-40 MHz Mode Channel 03/06/09 | | | |

| Output Power test_Beamforming | | | | |
|-------------------------------|-----------------------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 3 | TX N-20 MHz Mode Channel 01/06/11 | | | |
| Mode 4 | TX N-40 MHz Mode Channel 03/06/09 | | | |

| Other Conducted test_Non Beamforming | | | |
|--------------------------------------|-----------------------------------|--|--|
| 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-20 MHz Mode Channel 01/06/11 | | |
| Mode 4 | TX N-40 MHz Mode Channel 03/06/09 | | |

NOTE:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (3) For radiated emission below 1 GHz test, the IEEE 802.11n20 Channel 06 is found to be the worst case and recorded.
- (4) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (5) The measurements for RF Output Power were tested, the Non Beamforming and Beamforming are recorded in the report. The worst case was Non Beamforming and only worst case were documented for other test items.
- (6) For radiated emissions, the TX WLAN 2.4G N20 Mode 2437MHz + WLAN 5G AC40 Mode 5230MHz was found the worst case of simultaneous transmission and recorded.



2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

| Test Software | cart | | |
|---------------------|------|------|------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| IEEE 802.11b | 24 | 23 | 22 |
| IEEE 802.11g | 20.5 | 21 | 21.5 |
| IEEE 802.11n (HT20) | 15.5 | 15.5 | 15.5 |
| Frequency (MHz) | 2422 | 2437 | 2452 |
| IEEE 802.11n (HT40) | 17.5 | 17.5 | 17.5 |

Beamforming

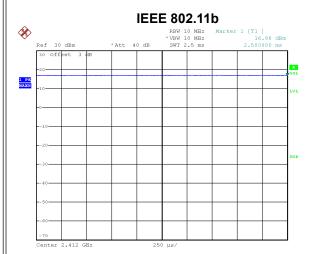
| Test Software | cart | | |
|---------------------|------|------|------|
| Frequency (MHz) | 2412 | 2437 | 2462 |
| IEEE 802.11n (HT20) | 15 | 15 | 15 |
| Frequency (MHz) | 2422 | 2437 | 2452 |
| IEEE 802.11n (HT40) | 17.5 | 17.5 | 17.5 |





2.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.



REW 10 MHz Delta 2 [T1]

**Vew 10 MHz Delta 2 [T1]

**Ref 30 dBm **Att 40 dB SWT 4 ms 2.000000 ms

30 Offset 3 dB Marker 1 [T1]

16.05 dBm 1 16.05 dBm

IEEE 802.11g

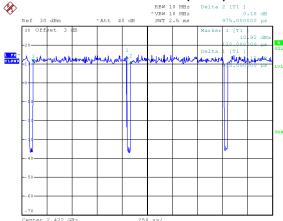
Date: 13.JUN.2020 13:12:39

Duty cycle = 2500.000 ms / 2500.000 ms = 100% Duty Factor = 10 log(1/Duty cycle) = 0.00 Date: 13.JUN.2020 13:13:35

Duty cycle = 2.032 ms / 2.080 ms = 97.69% Duty Factor = 10 log(1/Duty cycle) = 0.10

REF 802.11n (HT20) REW 10 MHz Delta 2 [T1] Outlier 3 dB Att 40 dB SWT 4 ms Marker 1 [T1] 16.24 dBs 1.65 200,000 ms 1.100 dB 1.000 dB 1.0

IEEE 802.11n (HT40)



Date: 13.JUN.2020 13:14:43

Duty cycle = 1.896 ms / 1.952 ms = 97.13% Duty Factor = 10 log(1/Duty cycle) = 0.13 Date: 13.JUN.2020 13:15:19

Duty cycle = 0.935 ms / 0.975 ms = 95.90% Duty Factor = 10 log(1/Duty cycle) = 0.18

NOTE:

For IEEE 802.11g and IEEE 802.11n (HT20):

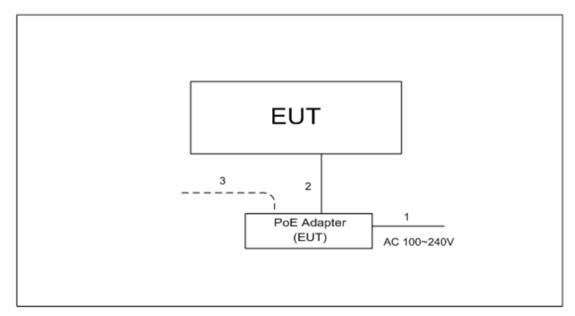
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

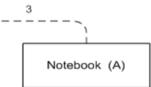
For IEEE 802.11n (HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).



2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





2.6 SUPPORT UNITS

| It | tem | Equipment | Mfr/Brand | Model/Type No. | Series No. |
|----|-----|-----------|-----------|----------------|------------|
| | Α | Notebook | Dell | DCSM | G7K832X |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| 1 | AC Cable | NO | NO | 1m |
| 2 | RJ45 Cable | NO | NO | 1m |
| 3 | RJ45 Cable | NO | NO | 10m |



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

| Frequency of Emission (MHz) | Limit (dBμV) | | |
|-----------------------------|--------------|-----------|--|
| | Quasi-peak | Average | |
| 0.15 - 0.5 | 66 to 56* | 56 to 46* | |
| 0.5 - 5.0 | 56 | 46 | |
| 5.0 - 30.0 | 60 | 50 | |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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 |

3.2 TEST PROCEDURE

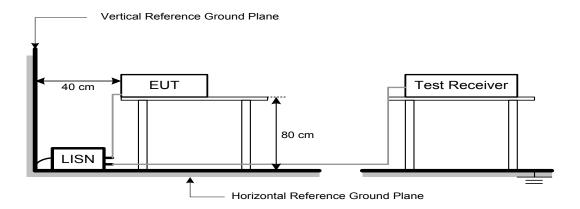
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.



4. RADIATED EMISSIONS TEST

4.1 LIMIT

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 (9 kHz-1000 MHz)

| 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 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

For WLAN 2.4GHz:

| Fraguency (MHz) | (dBuV/m at 3 m) | |
|-----------------|-----------------|---------|
| Frequency (MHz) | Peak | Average |
| Above 1000 | 74 | 54 |

For WLAN 5GHz:

| Frequency (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength at 3m (dBµV/m) |
|--------------------|-------------------------|--|
| 5150-5250 | -27 | 68.3 |

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15C & FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



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

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

4.2 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 1 GHz)
- 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

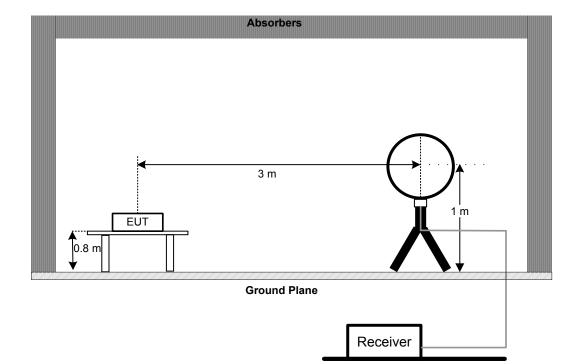
4.3 DEVIATION FROM TEST STANDARD

No deviation

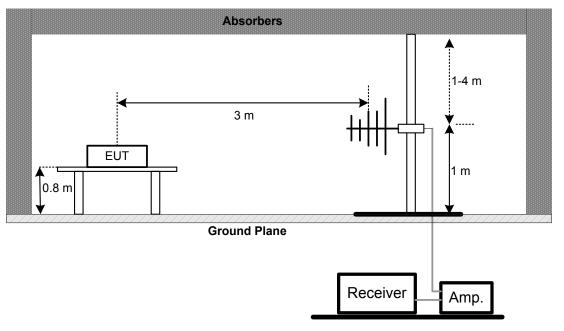


4.4 TEST SETUP

9 kHz-30 MHz

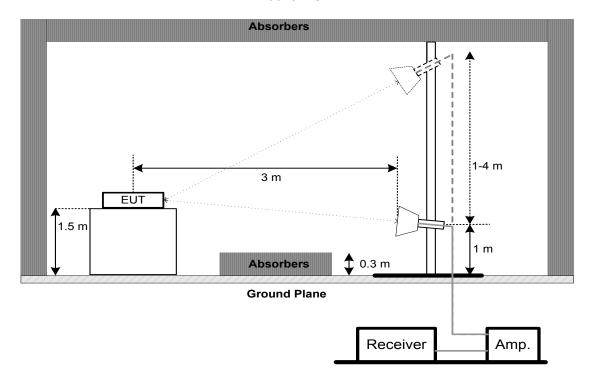


30 MHz to 1 GHz





Above 1 GHz



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

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.



5. BANDWIDTH TEST

5.1 LIMIT

| FCC Part15, Subpart C (15.247) | | | | |
|--------------------------------|------------------------|-----------------|--|--|
| Section Test Item Limit | | | | |
| 15 247(0)(2) | 6 dB Bandwidth | Minimum 500 kHz | | |
| 15.247(a)(2) | 99% Emission Bandwidth | - | | |

5.2 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:

For 6 dB Bandwidth: RBW= 100 kHz, VBW=300 kHz, Sweep time = auto.

For 99% Emission Bandwidth B/G/N-20 Mode: RBW= 300 KHz, VBW=1 MHz, Sweep time = 2.5 ms.

For 99% Emission Bandwidth N-40 Mode: RBW= 1 MHz. VBW=3 MHz. Sweep time = 2.5 ms.

c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

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

5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.



6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

| FCC Part15, Subpart C (15.247) | | | | |
|--------------------------------|----------------------|-----------------|--|--|
| Section Test Item Limit | | | | |
| 15.247(b)(3) | Maximum Output Power | 1 Watt or 30dBm | | |

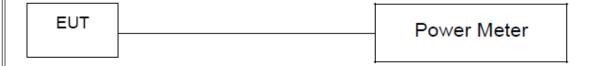
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.3 and 11.9.2.3.1 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.



7. CONDUCTED SPURIOUS EMISSIONS

7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

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

7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.



8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

| FCC Part15, Subpart C (15.247) | | | | | |
|--------------------------------|------------------------|-------------------------|--|--|--|
| Section Test Item Limit | | | | | |
| 15.247(e) | Power Spectral Density | 8 dBm (in any 3 kHz) | | | |

8.2 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

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

8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.



9. MEASUREMENT INSTRUMENTS LIST

| | AC Power Line Conducted Emissions | | | | | | |
|------|-----------------------------------|--------------|--------------------------|------------|------------------|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | |
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Feb. 28, 2021 | | |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 01, 2021 | | |
| 3 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | Feb. 28, 2021 | | |
| 4 | 50Ω Terminator | SHX | TF5-3 | 15041305 | Mar. 01, 2021 | | |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | | |
| 6 | Cable | N/A | RG223 | 12m | Mar. 10, 2021 | | |

| | Radiated Emissions - 9 kHz to 30 MHz | | | | | | |
|--|--------------------------------------|-------|--------------------------|--------|---------------|--|--|
| Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated of Equipment Calibrated of Equipmen | | | | | | | |
| 1 | Antenna | EM | EM-6876-1 | 230 | Apr. 16, 2021 | | |
| 2 | Cable | N/A | N/A RG 213/U | | May 29, 2021 | | |
| 3 | EMI Test Receiver | R&S | ESCI | 100895 | Feb. 28, 2021 | | |
| 4 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | | |

| | Radiated Emissions - 30 MHz to 1 GHz | | | | | |
|------|--------------------------------------|--------------|--------------------------------|-------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Antenna | Schwarzbeck | VULB9160 | 9160-3232 | Mar. 09, 2021 | |
| 2* | Amplifier | HP | 8447D | 2944A09673 | Aug. 11, 2021 | |
| 3 | Receiver | Agilent | N9038A | MY52130039 | Aug. 03, 2020 | |
| 4 | Cable | emci | LMR-400(30MHz-1 GHz)(8m+5m) | N/A | May 22, 2021 | |
| 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 | |

| | Radiated Emissions - Above 1 GHz | | | | | | |
|------|---|-------------------|--------------------------|---------------|------------------|--|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | | |
| 1 | Double Ridged Guide Antenna | ETS | 3115 | 75789 | May 12, 2021 | | |
| 2 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Jul. 07, 2021 | | |
| 3 | Amplifier | Agilent | 8449B | 3008A02333 | Mar. 01, 2021 | | |
| 4 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 07, 2021 | | |
| 5 | Receiver | Agilent | N9038A | MY52130039 | Aug. 03, 2020 | | |
| 6 | Controller | CT | SC100 | N/A | N/A | | |
| 7 | Controller | MF | MF-7802 | MF780208416 | N/A | | |
| 8 | Cable | N/A | EMC104-SM-SM-6 000 | N/A | May 09, 2021 | | |
| 9 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A | | |



| | | Antenna Condi | Bandwidth & ucted Spurious Emi er Spectral Density | ssions & | |
|------|--|---------------|--|----------|---------------|
| Item | Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until | | | | |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 03, 2020 |

| | Maximum Output Power | | | | | |
|------|-----------------------|--------------|----------|------------|------------------|--|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until | |
| 1 | Peak Power Analyzer | Keysight | 8990B | MY51000506 | Aug. 03, 2020 | |
| 2 | Wideband power sensor | Keysight | N1923A | MY58310004 | Aug. 03, 2020 | |

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

"*" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.



10. EUT TEST PHOTO



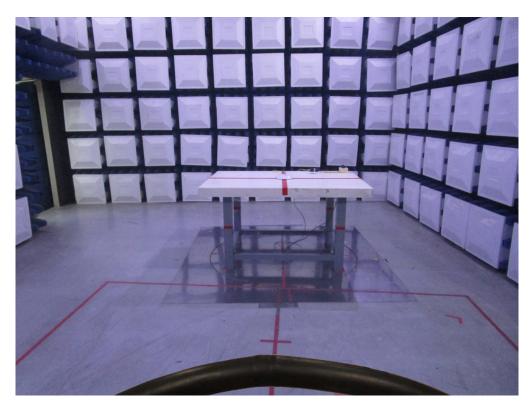


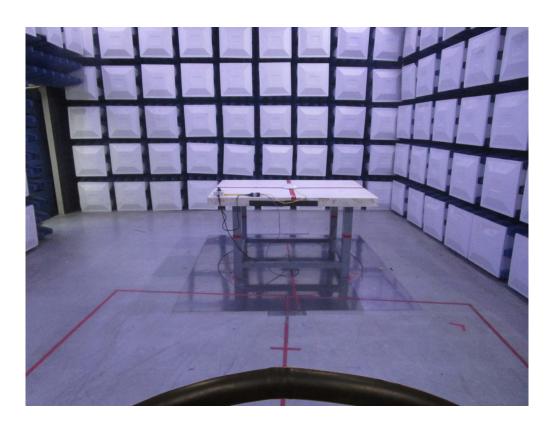




Radiated Emissions Test Photos

9 kHz to 30 MHz

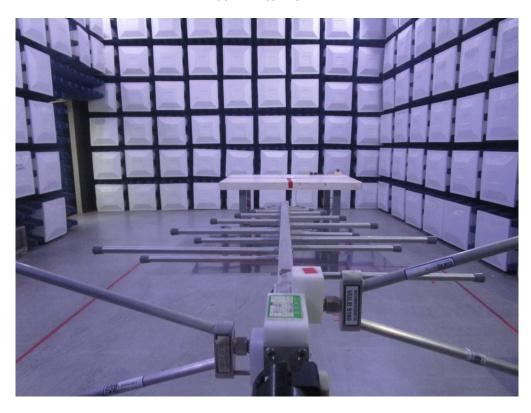






Radiated Emissions Test Photos

30 MHz to 1 GHz







Radiated Emissions Test Photos

Above 1 GHz



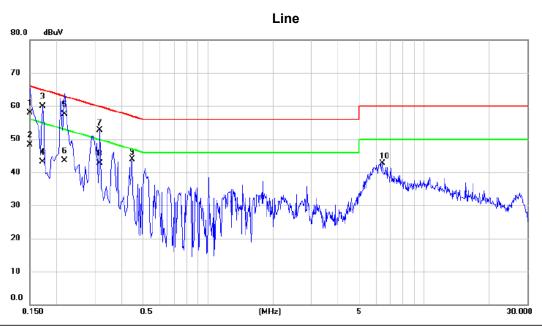




APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS



| l | |
|---------------|------------------------|
| Test Voltage: | AC 120V/60Hz |
| Test Mode: | TX N20 Mode Channel 06 |



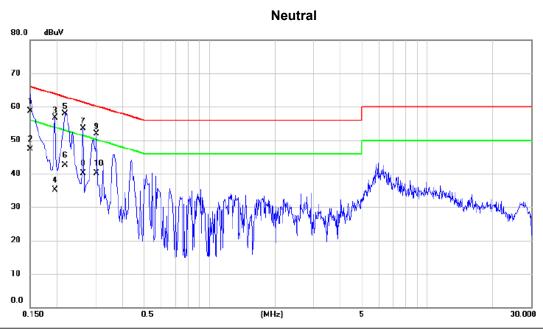
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|-------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.150 | 48.26 | 9.67 | 57.93 | 66.00 | -8.07 | QP | |
| 2 | 0.150 | 38.60 | 9.67 | 48.27 | 56.00 | -7.73 | AVG | |
| 3 * | 0.172 | 50.09 | 9.83 | 59.92 | 64.84 | -4.92 | QP | |
| 4 | 0.172 | 33.26 | 9.83 | 43.09 | 54.84 | -11.75 | AVG | |
| 5 | 0.217 | 47.70 | 9.90 | 57.60 | 62.91 | -5.31 | QP | |
| 6 | 0.217 | 33.70 | 9.90 | 43.60 | 52.91 | -9.31 | AVG | |
| 7 | 0.317 | 42.83 | 9.89 | 52.72 | 59.80 | -7.08 | peak | |
| 8 | 0.317 | 32.90 | 9.89 | 42.79 | 49.80 | -7.01 | AVG | |
| 9 | 0.447 | 33.92 | 9.93 | 43.85 | 56.93 | -13.08 | peak | |
| 10 | 6.391 | 32.23 | 10.44 | 42.67 | 60.00 | -17.33 | peak | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



| Test Voltage: | AC 120V/60Hz |
|---------------|------------------------|
| Test Mode: | TX N20 Mode Channel 06 |



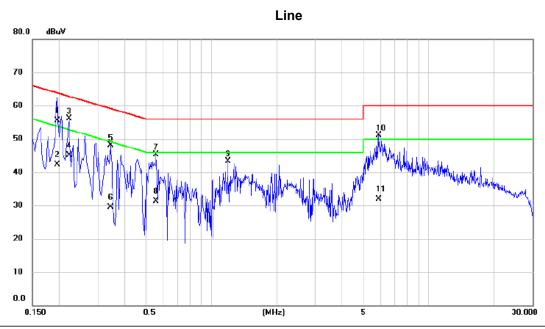
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|-------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.150 | 48.98 | 9.74 | 58.72 | 66.00 | -7.28 | QP | |
| 2 | 0.150 | 37.50 | 9.74 | 47.24 | 56.00 | -8.76 | AVG | |
| 3 | 0.195 | 46.64 | 9.99 | 56.63 | 63.82 | -7.19 | peak | |
| 4 | 0.195 | 25.10 | 9.99 | 35.09 | 53.82 | -18.73 | AVG | |
| 5 * | 0.217 | 47.85 | 10.00 | 57.85 | 62.91 | -5.06 | peak | |
| 6 | 0.217 | 32.50 | 10.00 | 42.50 | 52.91 | -10.41 | AVG | |
| 7 | 0.263 | 43.45 | 9.99 | 53.44 | 61.35 | -7.91 | peak | |
| 8 | 0.263 | 30.12 | 9.99 | 40.11 | 51.35 | -11.24 | AVG | |
| 9 | 0.303 | 41.83 | 10.02 | 51.85 | 60.16 | -8.31 | peak | |
| 10 | 0.303 | 30.10 | 10.02 | 40.12 | 50.16 | -10.04 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



| l | |
|---------------|------------------------|
| Test Voltage: | AC 240V/50Hz |
| Test Mode: | TX N20 Mode Channel 06 |



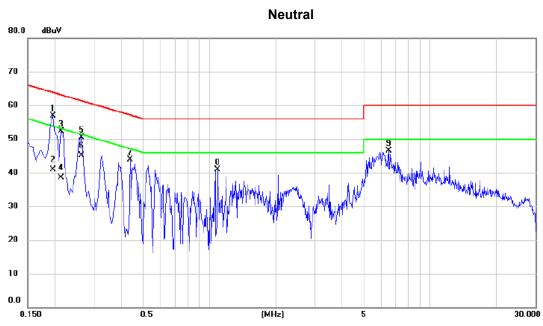
| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|-------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBu∨ | dB | Detector | Comment |
| 1 | 0.195 | 45.60 | 9.90 | 55.50 | 63.82 | -8.32 | QP | |
| 2 | 0.195 | 32.50 | 9.90 | 42.40 | 53.82 | -11.42 | AVG | |
| 3 * | 0.222 | 46.26 | 9.89 | 56.15 | 62.74 | -6.59 | peak | |
| 4 | 0.222 | 35.20 | 9.89 | 45.09 | 52.74 | -7.65 | AVG | |
| 5 | 0.344 | 38.12 | 9.91 | 48.03 | 59.12 | -11.09 | peak | |
| 6 | 0.344 | 19.60 | 9.91 | 29.51 | 49.12 | -19.61 | AVG | |
| 7 | 0.555 | 35.27 | 9.96 | 45.23 | 56.00 | -10.77 | peak | |
| 8 | 0.555 | 21.30 | 9.96 | 31.26 | 46.00 | -14.74 | AVG | |
| 9 | 1.190 | 33.30 | 10.02 | 43.32 | 56.00 | -12.68 | peak | |
| 10 | 5.870 | 40.74 | 10.39 | 51.13 | 60.00 | -8.87 | peak | |
| 11 | 5.870 | 21.50 | 10.39 | 31.89 | 50.00 | -18.11 | AVG | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



| l | |
|---------------|------------------------|
| Test Voltage: | AC 240V/50Hz |
| Test Mode: | TX N20 Mode Channel 06 |



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|-------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∀ | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.195 | 46.96 | 9.99 | 56.95 | 63.82 | -6.87 | peak | |
| 2 | 0.195 | 30.90 | 9.99 | 40.89 | 53.82 | -12.93 | AVG | |
| 3 | 0.213 | 42.32 | 10.00 | 52.32 | 63.09 | -10.77 | peak | |
| 4 | 0.213 | 28.60 | 10.00 | 38.60 | 53.09 | -14.49 | AVG | |
| 5 | 0.263 | 40.51 | 9.99 | 50.50 | 61.35 | -10.85 | peak | |
| 6 * | 0.263 | 35.20 | 9.99 | 45.19 | 51.35 | -6.16 | AVG | |
| 7 | 0.438 | 33.75 | 10.11 | 43.86 | 57.10 | -13.24 | peak | |
| 8 | 1.091 | 30.60 | 10.31 | 40.91 | 56.00 | -15.09 | peak | |
| 9 | 6.486 | 35.80 | 10.78 | 46.58 | 60.00 | -13.42 | peak | |

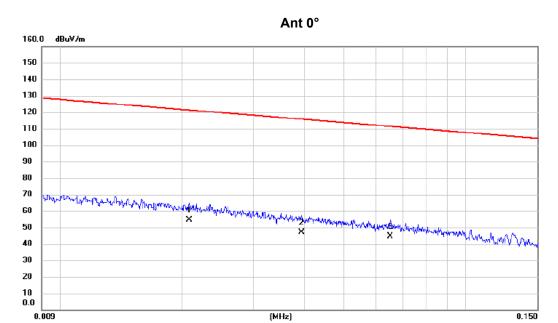
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ



Test Mode: TX N20 Mode Channel 06

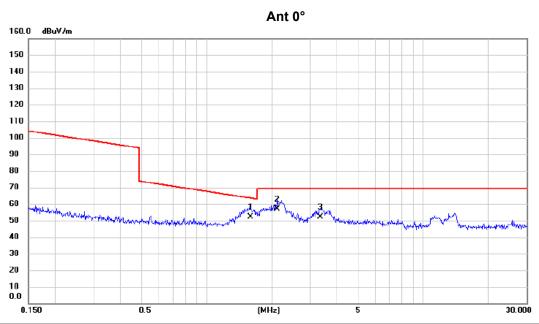


| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|--------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 0.0208 | 33.35 | 21.11 | 54.46 | 121.24 | -66.78 | AVG | |
| 2 | 0.0394 | 25.96 | 21.00 | 46.96 | 115.69 | -68.73 | AVG | |
| 3 | 0.0652 | 23.47 | 20.99 | 44.46 | 111.32 | -66.86 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.







| No. Mk. | Freq. | | Correct Factor | Measure- ment | Limit | Margin | | |
|---------|--------|--------|-------------------|------------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 1.5935 | 30.41 | 21.73 | 52.14 | 63.56 | -11.42 | QP | |
| 2 | 2.1213 | 35.29 | 21.83 | 57.12 | 69.54 | -12.42 | QP | |
| 3 | 3.3458 | 30.16 | 21.87 | 52.03 | 69.54 | -17.51 | QP | |

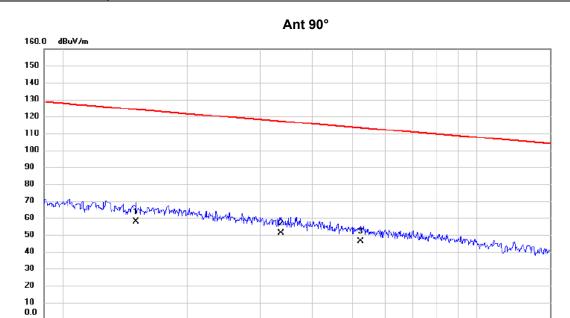
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

0.150



0.009





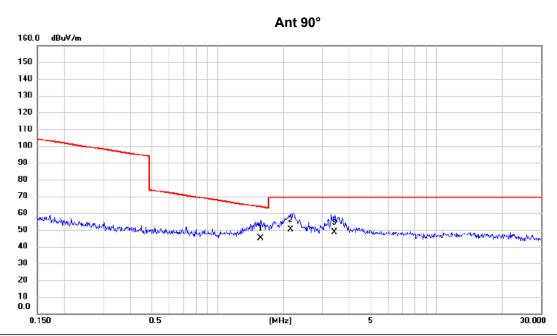
| No. Mk. | Freq. | Reading Level | | Measure- ment | | Margin | | |
|---------|--------|------------------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 0.0150 | 36.38 | 21.37 | 57.75 | 124.08 | -66.33 | AVG | |
| 2 * | 0.0337 | 30.04 | 21.04 | 51.08 | 117.05 | -65.97 | AVG | |
| 3 | 0.0524 | 25.17 | 20.94 | 46.11 | 113.22 | -67.11 | AVG | |

(MHz)

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.







| No. M | k. Freq. | | | Measure- ment | | Margin | | |
|-------|----------|--------|-------|------------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 1.5766 | 23.28 | 21.73 | 45.01 | 63.65 | -18.64 | QP | |
| 2 | 2.1552 | 28.53 | 21.84 | 50.37 | 69.54 | -19.17 | QP | |
| 3 | 3.4174 | 26.89 | 21.86 | 48.75 | 69.54 | -20.79 | QP | |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

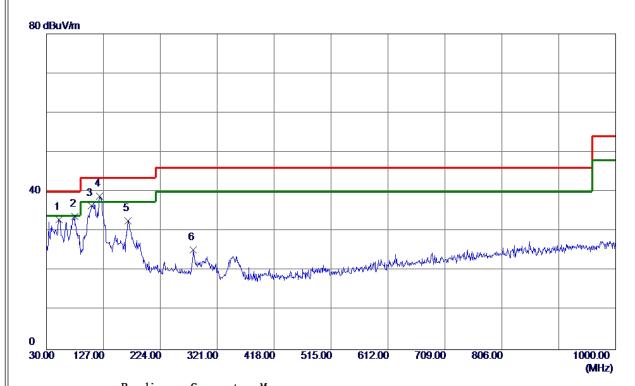


APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



Test Mode: TX N20 Mode Channel 06

Vertical



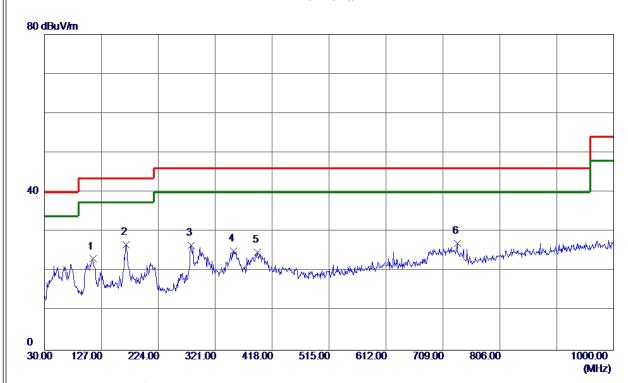
| Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----------|--|-------------------|---|--|---|---|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 51.3400 | 49.05 | -16. 11 | 32.94 | 40.00 | -7.06 | Peak | |
| 78.0150 | 53. 91 | -20. 10 | 33.81 | 40.00 | -6. 19 | Peak | |
| 106.6300 | 55. 96 | -19.47 | 36. 49 | 43.50 | -7.01 | Peak | |
| 120. 2100 | 57.07 | -18. 15 | 38. 92 | 43.50 | -4. 58 | Peak | |
| 169. 1950 | 48. 43 | -15.77 | 32.66 | 43.50 | -10.84 | Peak | |
| 280. 2600 | 40.08 | -14.85 | 25. 23 | 46.00 | -20.77 | Peak | |
| | MHz 51. 3400 78. 0150 106. 6300 120. 2100 169. 1950 | MHz dBuV/m | MHz dBuV/m dB 51.3400 49.05 -16.11 78.0150 53.91 -20.10 106.6300 55.96 -19.47 120.2100 57.07 -18.15 169.1950 48.43 -15.77 | MHz dBuV/m dB dBuV/m 51.3400 49.05 -16.11 32.94 78.0150 53.91 -20.10 33.81 106.6300 55.96 -19.47 36.49 120.2100 57.07 -18.15 38.92 169.1950 48.43 -15.77 32.66 | MHz dBuV/m dB dBuV/m dBuV/m 51.3400 49.05 -16.11 32.94 40.00 78.0150 53.91 -20.10 33.81 40.00 106.6300 55.96 -19.47 36.49 43.50 120.2100 57.07 -18.15 38.92 43.50 169.1950 48.43 -15.77 32.66 43.50 | MHz dBuV/m dB dBuV/m dBuV/m dB 51.3400 49.05 -16.11 32.94 40.00 -7.06 78.0150 53.91 -20.10 33.81 40.00 -6.19 106.6300 55.96 -19.47 36.49 43.50 -7.01 120.2100 57.07 -18.15 38.92 43.50 -4.58 169.1950 48.43 -15.77 32.66 43.50 -10.84 | MHz dBuV/m dB dBuV/m dBuV/m dB Detector 51.3400 49.05 -16.11 32.94 40.00 -7.06 Peak 78.0150 53.91 -20.10 33.81 40.00 -6.19 Peak 106.6300 55.96 -19.47 36.49 43.50 -7.01 Peak 120.2100 57.07 -18.15 38.92 43.50 -4.58 Peak 169.1950 48.43 -15.77 32.66 43.50 -10.84 Peak |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N20 Mode Channel 06

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 112.4500 | 41.86 | -18.74 | 23. 12 | 43.50 | -20.38 | Peak | |
| 2 * | 169. 1950 | 42. 56 | -15. 77 | 26. 79 | 43.50 | -16.71 | Peak | |
| 3 | 280. 2600 | 41.35 | -14.85 | 26. 50 | 46.00 | -19.50 | Peak | |
| 4 | 352.0400 | 38. 20 | -13.06 | 25. 14 | 46.00 | -20.86 | Peak | |
| 5 | 393. 2650 | 36. 91 | -12.06 | 24.85 | 46.00 | -21. 15 | Peak | |
| 6 | 733. 7350 | 33. 36 | -6. 31 | 27. 05 | 46.00 | -18. 95 | Peak | |
| | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

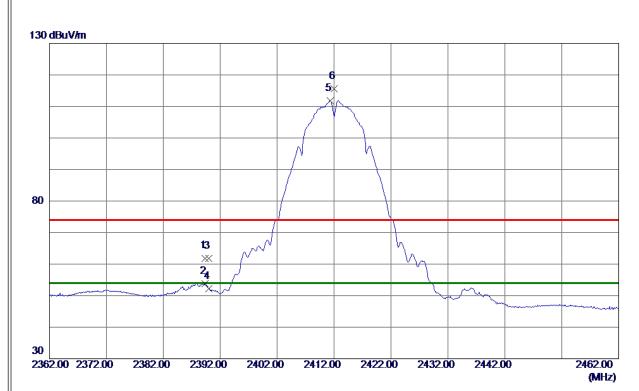


APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ



Test Mode: TX B Mode 2412 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2389. 3000 | 51.41 | 10.49 | 61. 90 | 74.00 | -12. 10 | Peak | |
| 2 | 2389. 3000 | 43. 36 | 10.49 | 53.85 | 54.00 | -0. 15 | AVG | |
| 3 | 2390.0000 | 51. 33 | 10. 50 | 61.83 | 74.00 | -12. 17 | Peak | |
| 4 | 2390.0000 | 41.63 | 10. 50 | 52. 13 | 54.00 | -1.87 | AVG | |
| 5 * | 2411. 3000 | 101. 22 | 10. 56 | 111.78 | 54.00 | 57. 78 | AVG | No Limit |
| 6 | 2412.0000 | 104.95 | 10. 56 | 115. 51 | 74.00 | 41.51 | Peak | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2412 MHz

Vertical





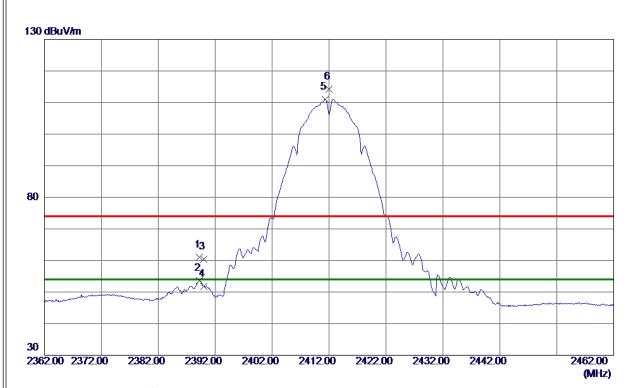
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4823.9650 | 49. 49 | 6. 53 | 56. 02 | 74.00 | -17. 98 | Peak | |
| 2 * | 4824.0200 | 47.08 | 6. 53 | 53.61 | 54.00 | -0.39 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2412 MHz

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2389. 2000 | 50. 54 | 10.49 | 61.03 | 74.00 | -12.97 | Peak | |
| 2 | 2389. 2000 | 43.03 | 10.49 | 53. 52 | 54.00 | -0.48 | AVG | |
| 3 | 2390.0000 | 49.84 | 10. 50 | 60. 34 | 74.00 | -13.66 | Peak | |
| 4 | 2390.0000 | 41.24 | 10. 50 | 51.74 | 54.00 | -2. 26 | AVG | |
| 5 * | 2411. 3000 | 100.41 | 10. 56 | 110. 97 | 54.00 | 56. 97 | AVG | No Limit |
| 6 | 2412.0000 | 103.68 | 10. 56 | 114. 24 | 74.00 | 40. 24 | Peak | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2412 MHz

Horizontal

80 dBuV/m



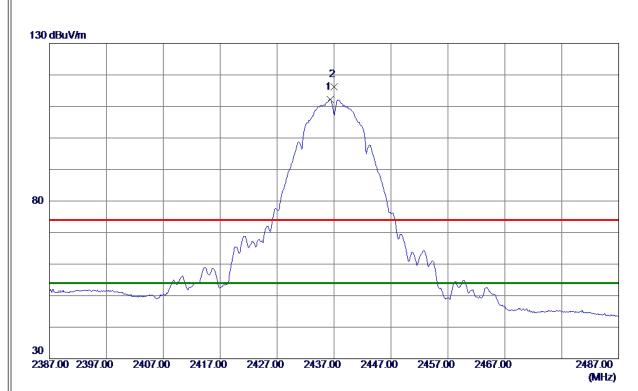
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4823.9550 | 49.81 | 6. 53 | 56. 34 | 74.00 | -17.66 | Peak | |
| 2 * | 4824.0299 | 46. 92 | 6. 53 | 53. 45 | 54.00 | -0.55 | AVG | |
| | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2437 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2436. 3000 | 101.65 | 10.63 | 112. 28 | 54.00 | 58. 28 | AVG | No Limit |
| 2 | 2437. 0000 | 105. 63 | 10.63 | 116. 26 | 74.00 | 42. 26 | Peak | No Limit |

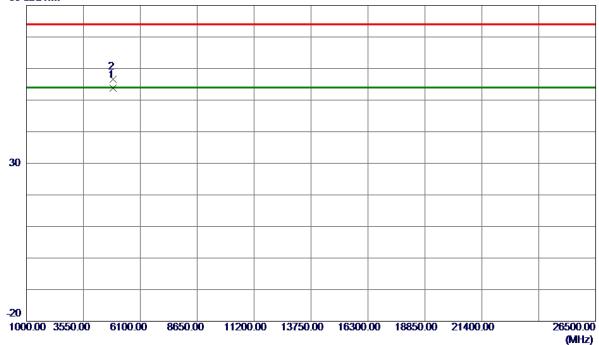
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2437 MHz

Vertical

80 dBuV/m



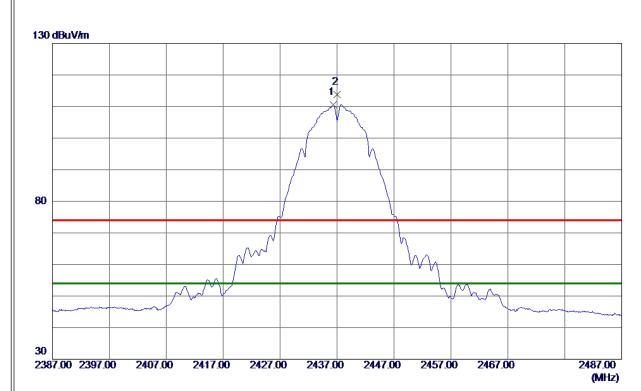
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4873. 9800 | 47. 25 | 6. 65 | 53.90 | 54.00 | -0. 10 | AVG | |
| 2 | 4874.0000 | 49.89 | 6. 65 | 56. 54 | 74.00 | -17.46 | Peak | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2437 MHz

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2436. 3000 | 99. 91 | 10.63 | 110. 54 | 54.00 | 56. 54 | AVG | No Limit |
| 2 | 2437.0000 | 103. 18 | 10.63 | 113.81 | 74.00 | 39.81 | Peak | No Limit |

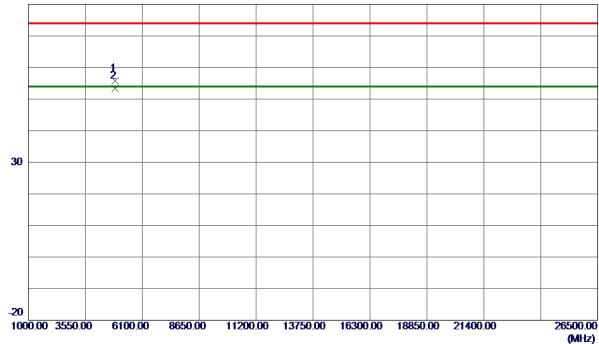
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2437 MHz

Horizontal

80 dBuV/m



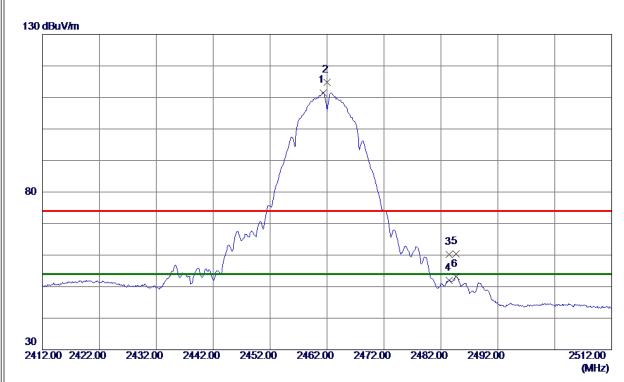
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4873.9750 | 49.09 | 6. 65 | 55.74 | 74.00 | -18. 26 | Peak | |
| 2 * | 4874.0000 | 46. 73 | 6. 65 | 53. 38 | 54.00 | -0.62 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2462 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2461. 3000 | 100.80 | 10.70 | 111.50 | 54.00 | 57. 50 | AVG | No Limit |
| 2 | 2462.0000 | 104. 17 | 10.70 | 114.87 | 74.00 | 40.87 | Peak | No Limit |
| 3 | 2483. 5000 | 49. 37 | 10.76 | 60. 13 | 74.00 | -13.87 | Peak | |
| 4 | 2483. 5000 | 41.23 | 10.76 | 51.99 | 54.00 | -2.01 | AVG | |
| 5 | 2484.7000 | 49.60 | 10.77 | 60. 37 | 74.00 | -13.63 | Peak | |
| 6 | 2484.7000 | 42.48 | 10.77 | 53. 25 | 54.00 | -0.75 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2462 MHz

Vertical





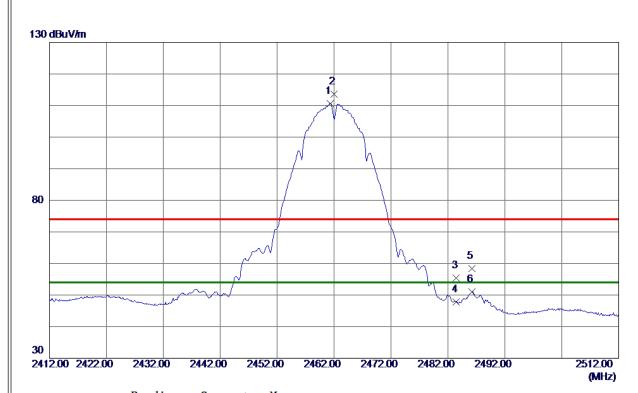
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4924.0099 | 49. 24 | 6. 77 | 56. 01 | 74.00 | -17.99 | Peak | |
| 2 * | 4924.0150 | 46. 44 | 6. 77 | 53. 21 | 54.00 | -0.79 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX B Mode 2462 MHz

Horizontal



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2461.3000 | 99. 93 | 10.70 | 110.63 | 54.00 | 56. 63 | AVG | No Limit |
| 2 | 2462.0000 | 102.89 | 10.70 | 113. 59 | 74.00 | 39. 59 | Peak | No Limit |
| 3 | 2483. 5000 | 44.73 | 10.76 | 55. 49 | 74.00 | -18. 51 | Peak | |
| 4 | 2483. 5000 | 37.03 | 10.76 | 47.79 | 54.00 | -6. 21 | AVG | |
| 5 | 2486. 2000 | 47.65 | 10.77 | 58. 42 | 74.00 | -15. 58 | Peak | |
| 6 | 2486. 2000 | 40. 27 | 10.77 | 51. 04 | 54.00 | -2. 96 | AVG | |
| I | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

26500.00

(MHz)



Test Mode: TX B Mode 2462 MHz

Horizontal



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4923. 9550 | 46. 93 | 6. 77 | 53.70 | 74.00 | -20.30 | Peak | |
| 2 * | 4924. 0150 | 43.71 | 6. 77 | 50. 48 | 54.00 | -3. 52 | AVG | |

11200.00 13750.00 16300.00 18850.00 21400.00

REMARKS:

1000.00 3550.00

6100.00

8650.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

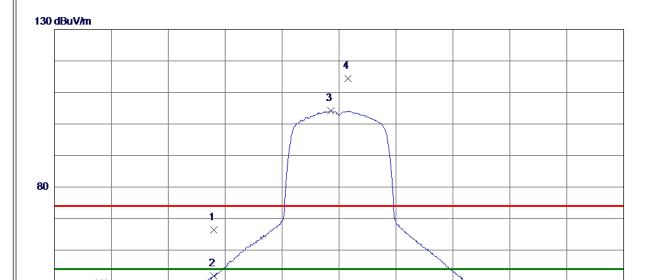
2462.00

(MHz)



Test Mode: TX G Mode 2412 MHz

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 | 55.83 | 10. 50 | 66. 33 | 74.00 | -7.67 | Peak | |
| 2 | 2390.0000 | 41. 29 | 10. 50 | 51. 79 | 54.00 | -2.21 | AVG | |
| 3 * | 2410.6000 | 93. 62 | 10. 55 | 104. 17 | 54.00 | 50. 17 | AVG | No Limit |
| 4 | 2413, 6000 | 103, 82 | 10. 56 | 114. 38 | 74.00 | 40. 38 | Peak | No Limit |

2412.00

2422.00

2432.00

2442.00

REMARKS:

2362.00 2372.00

(1) Measurement Value = Reading Level + Correct Factor.

2392.00

2402.00

2382.00

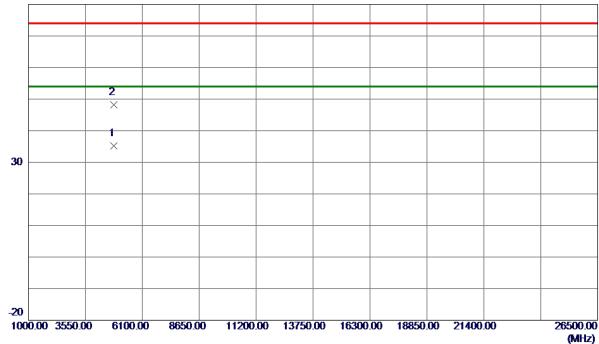
(2) Margin Level = Measurement Value - Limit Value.



Test Mode: TX G Mode 2412 MHz

Vertical





| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4820.9000 | 28.71 | 6. 52 | 35. 23 | 54.00 | -18.77 | AVG | |
| 2 | 4824.6600 | 41.60 | 6. 53 | 48. 13 | 74.00 | -25.87 | Peak | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

2462.00

(MHz)



Test Mode: TX G Mode 2412 MHz

Horizontal

130 dBuV/m 3 4 80 \times

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 54. 24 | 10. 50 | 64.74 | 74.00 | -9. 26 | Peak | |
| 2 | 2390.0000 | 39. 38 | 10. 50 | 49.88 | 54.00 | -4.12 | AVG | |
| 3 | 2409.8000 | 100.61 | 10. 55 | 111. 16 | 74.00 | 37. 16 | Peak | No Limit |
| 4 * | 2410.7000 | 91.66 | 10. 55 | 102. 21 | 54.00 | 48. 21 | AVG | No Limit |

2412.00

2422.00

2432.00

2442.00

REMARKS:

30

2362.00 2372.00

2382.00

2392.00

2402.00

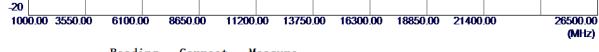
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2412 MHz

Horizontal





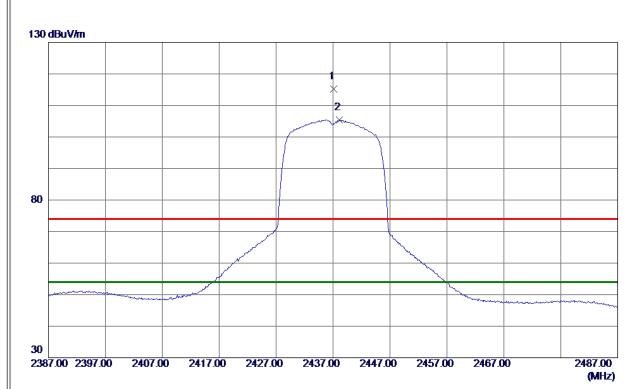
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4820.3500 | 40. 14 | 6. 52 | 46.66 | 74.00 | -27.34 | Peak | |
| 2 * | 4823. 2500 | 27.66 | 6. 52 | 34. 18 | 54.00 | -19.82 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2437 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2437. 1000 | 104.51 | 10.63 | 115. 14 | 74.00 | 41.14 | Peak | No Limit |
| 2 * | 2438. 1000 | 94. 78 | 10.63 | 105.41 | 54.00 | 51.41 | AVG | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2437 MHz

Vertical

80 dBuV/m



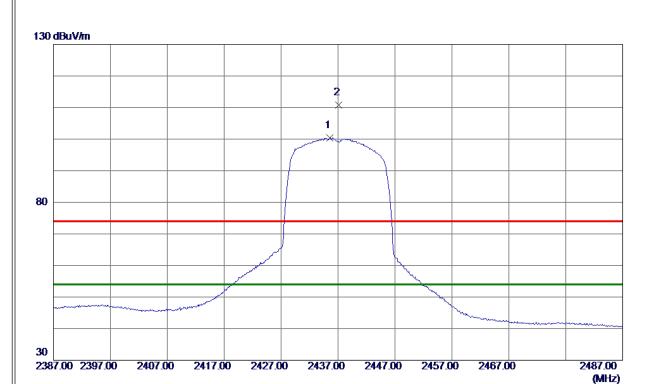
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4875.0000 | 33. 83 | 6. 65 | 40.48 | 54.00 | -13.52 | AVG | |
| 2 | 4876. 0800 | 48. 07 | 6. 65 | 54.72 | 74.00 | -19. 28 | Peak | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2437 MHz

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2435.6000 | 89.85 | 10.63 | 100.48 | 54.00 | 46.48 | AVG | No Limit |
| 2 | 2437. 1000 | 100. 20 | 10.63 | 110.83 | 74.00 | 36. 83 | Peak | No Limit |

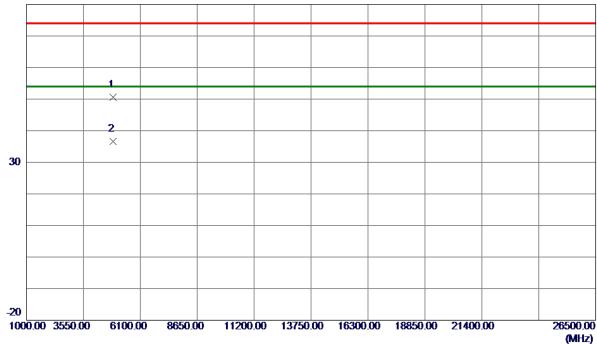
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2437 MHz

Horizontal





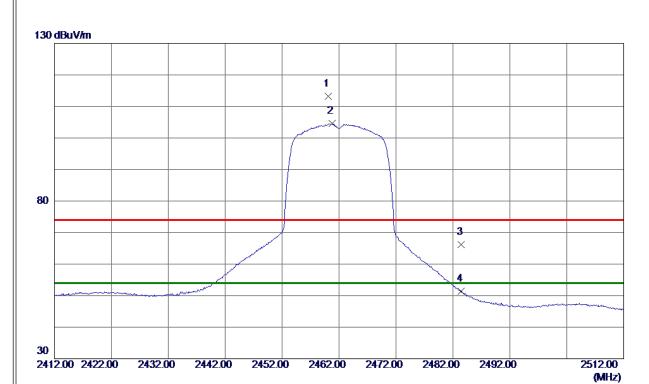
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4873. 2500 | 44.02 | 6. 65 | 50. 67 | 74.00 | -23. 33 | Peak | |
| 2 * | 4875. 9500 | 30. 01 | 6. 65 | 36. 66 | 54.00 | -17.34 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2462 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2460. 1000 | 102. 53 | 10.70 | 113. 23 | 74.00 | 39. 23 | Peak | No Limit |
| 2 * | 2460.8000 | 93.82 | 10.70 | 104. 52 | 54.00 | 50. 52 | AVG | No Limit |
| 3 | 2483. 5000 | 55. 52 | 10.76 | 66. 28 | 74.00 | -7.72 | Peak | |
| 4 | 2483. 5000 | 40. 55 | 10. 76 | 51. 31 | 54.00 | -2.69 | AVG | |

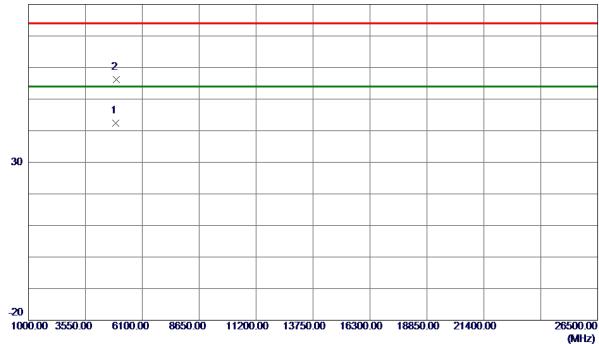
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2462 MHz

Vertical





| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4923.8700 | 35. 70 | 6. 77 | 42.47 | 54.00 | -11.53 | AVG | |
| 2 | 4924. 3200 | 49. 37 | 6. 77 | 56. 14 | 74.00 | -17.86 | Peak | |

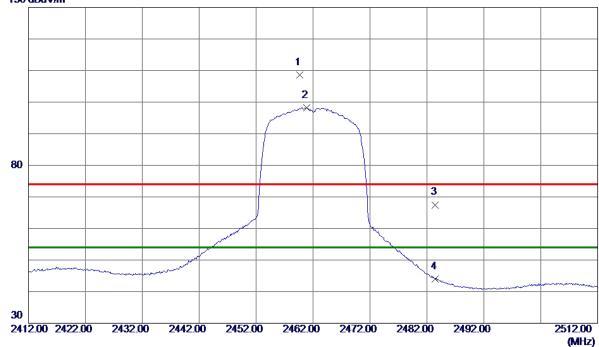
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2462 MHz

Horizontal

130 dBuV/m



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2459.7000 | 97.89 | 10.69 | 108. 58 | 74.00 | 34. 58 | Peak | No Limit |
| 2 * | 2460.9000 | 87. 50 | 10.70 | 98. 20 | 54.00 | 44. 20 | AVG | No Limit |
| 3 | 2483. 5000 | 56. 74 | 10.76 | 67. 50 | 74.00 | -6. 50 | Peak | |
| 4 | 2483. 5000 | 33. 29 | 10. 76 | 44.05 | 54.00 | -9. 95 | AVG | |

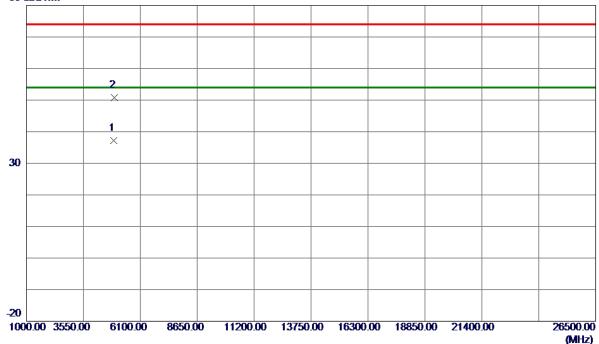
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX G Mode 2462 MHz

Horizontal





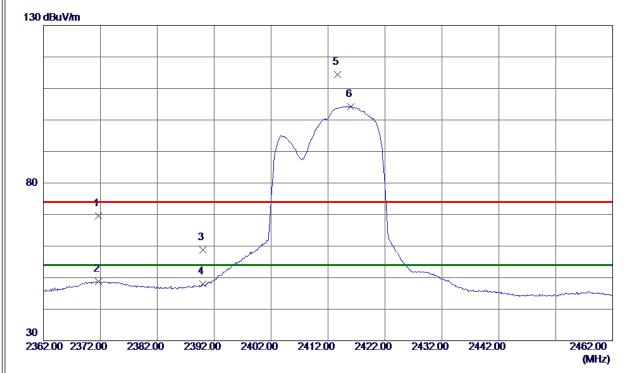
| | No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|-----|-----------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| l | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| | 1 * | 4923.6000 | 30. 34 | 6.77 | 37. 11 | 54.00 | -16.89 | AVG | |
| | 2 | 4930.0500 | 43.98 | 6. 79 | 50.77 | 74.00 | -23. 23 | Peak | |
| ш | | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2412 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2371.7000 | 59. 09 | 10.44 | 69. 53 | 74.00 | -4.47 | Peak | |
| 2 | 2371.7000 | 38. 34 | 10.44 | 48. 78 | 54.00 | -5. 22 | AVG | |
| 3 | 2390.0000 | 48. 21 | 10. 50 | 58. 71 | 74.00 | -15. 29 | Peak | |
| 4 | 2390.0000 | 37. 56 | 10. 50 | 48. 06 | 54.00 | -5.94 | AVG | |
| 5 | 2413.7000 | 103.75 | 10. 56 | 114.31 | 74.00 | 40.31 | Peak | No Limit |
| 6 * | 2416. 0000 | 93. 72 | 10. 57 | 104. 29 | 54.00 | 50. 29 | AVG | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

(MHz)



Test Mode: TX N-20M Mode 2412 MHz

Vertical



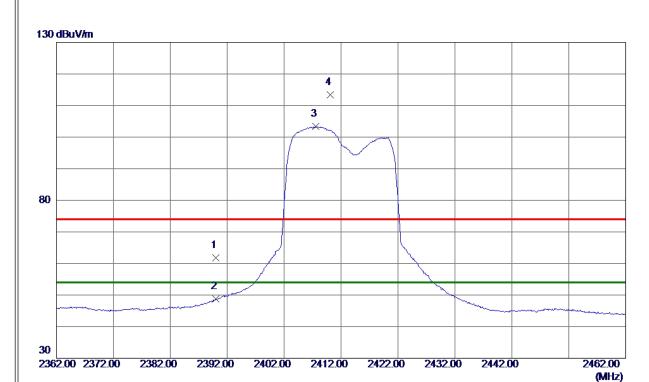
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4815. 8000 | 40.94 | 6. 51 | 47.45 | 74.00 | -26. 55 | Peak | |
| 2 * | 4817. 9000 | 27.67 | 6. 51 | 34. 18 | 54.00 | -19.82 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2412 MHz

Horizontal



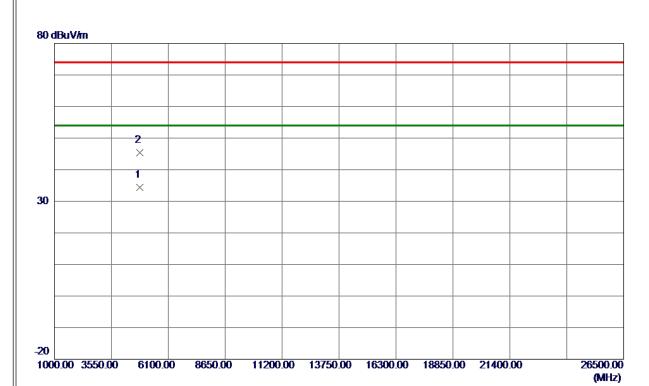
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 51. 31 | 10. 50 | 61.81 | 74.00 | -12. 19 | Peak | |
| 2 | 2390.0000 | 38. 25 | 10. 50 | 48.75 | 54.00 | -5. 25 | AVG | |
| 3 * | 2407.6000 | 92.81 | 10. 55 | 103. 36 | 54.00 | 49. 36 | AVG | No Limit |
| 4 | 2410. 1000 | 102.84 | 10. 55 | 113. 39 | 74.00 | 39. 39 | Peak | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2412 MHz

Horizontal



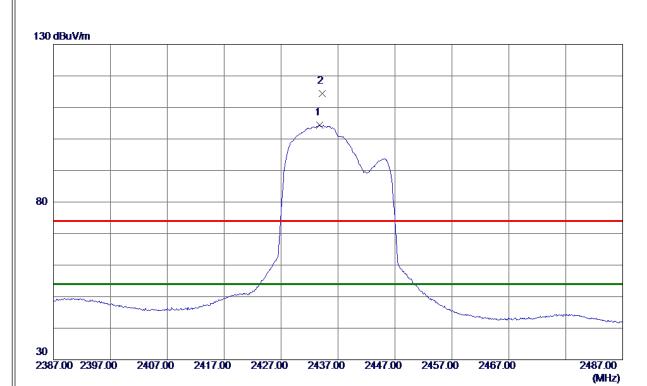
| | No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| | 1 * | 4829. 2000 | 27.91 | 6. 54 | 34.45 | 54.00 | -19. 55 | AVG | |
| | 2 | 4829. 4000 | 38. 87 | 6. 54 | 45. 41 | 74.00 | -28.59 | Peak | |
| Ш | | | | | | | | | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2437 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2433.8000 | 93.77 | 10.62 | 104.39 | 54.00 | 50.39 | AVG | No Limit |
| 2 | 2434. 2000 | 103. 79 | 10.62 | 114.41 | 74.00 | 40.41 | Peak | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2437 MHz

Vertical





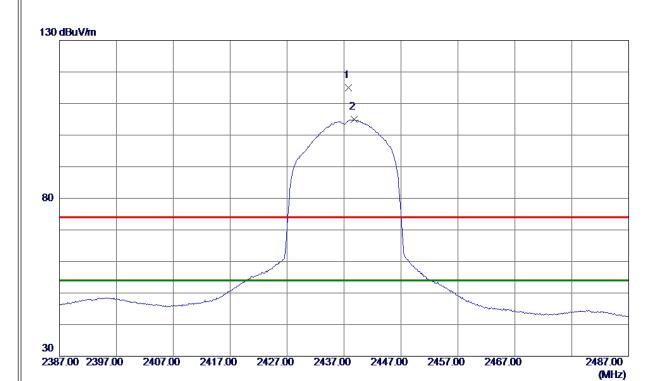
| MHz dBuV/m | dB dBuV/ | m dBuV/m dB | Detector Comment |
|-----------------------|--------------|--------------|------------------|
| 1 4869. 4000 37. 93 | 6.64 44.57 | 74.00 -29.43 | B Peak |
| 2 * 4872. 5000 25. 94 | 6. 65 32. 59 | 54.00 -21.4 | 1 AVG |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2437 MHz

Horizontal



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2437.8000 | 104.42 | 10.63 | 115.05 | 74.00 | 41.05 | Peak | No Limit |
| 2 * | 2438. 8000 | 94. 27 | 10.63 | 104.90 | 54.00 | 50.90 | AVG | No Limit |

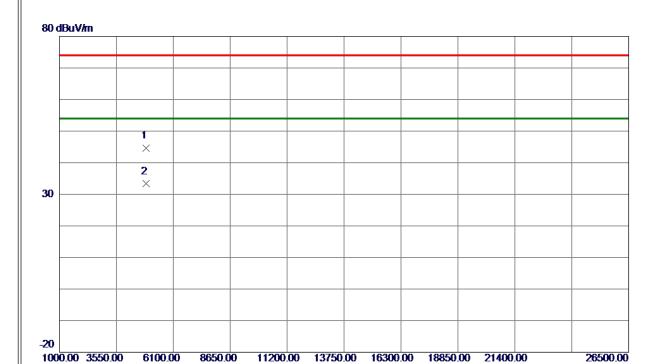
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

(MHz)



Test Mode: TX N-20M Mode 2437 MHz

Horizontal



| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4875.7500 | 37.94 | 6. 65 | 44. 59 | 74.00 | -29.41 | Peak | |
| 2 * | 4876. 3000 | 26. 65 | 6. 65 | 33. 30 | 54.00 | -20.70 | AVG | |

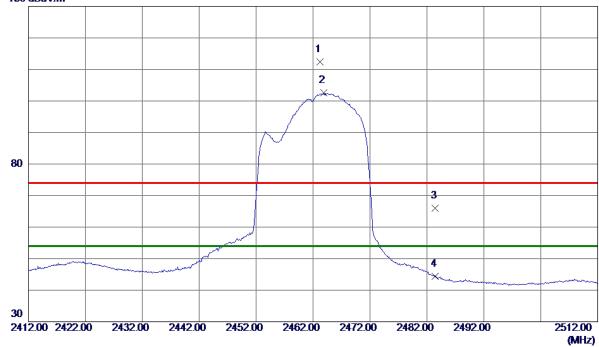
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2462 MHz

Vertical





| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2463. 2000 | 101.72 | 10.70 | 112.42 | 74.00 | 38. 42 | Peak | No Limit |
| 2 * | 2463.9000 | 91.81 | 10.71 | 102. 52 | 54.00 | 48. 52 | AVG | No Limit |
| 3 | 2483. 5000 | 55. 17 | 10.76 | 65. 93 | 74.00 | -8. 07 | Peak | |
| 4 | 2483. 5000 | 33.64 | 10. 76 | 44. 40 | 54.00 | -9. 60 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-20M Mode 2462 MHz

Vertical





| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4921.7500 | 24.43 | 6.77 | 31. 20 | 54.00 | -22.80 | AVG | |
| 2 | 4921, 8500 | 36. 33 | 6. 77 | 43. 10 | 74.00 | -30. 90 | Peak | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

2512.00

(MHz)



Test Mode: TX N-20M Mode 2462 MHz

Horizontal

130 dBuV/m 2 1 80 3 ×

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 2457. 2000 | 91.04 | 10.69 | 101.73 | 54.00 | 47.73 | AVG | No Limit |
| 2 | 2459.7000 | 101. 31 | 10.69 | 112.00 | 74.00 | 38.00 | Peak | No Limit |
| 3 | 2483. 5000 | 56. 10 | 10.76 | 66.86 | 74.00 | -7.14 | Peak | |
| 4 | 2483. 5000 | 33. 19 | 10. 76 | 43. 95 | 54.00 | -10.05 | AVG | |

2462.00

2472.00

2482.00

2492.00

REMARKS:

30

2412.00 2422.00

2432.00

2442.00

2452.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

26500.00

(MHz)



Test Mode: TX N-20M Mode 2462 MHz

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4918. 4000 | 37. 13 | 6. 76 | 43.89 | 74.00 | -30. 11 | Peak | |
| 2 * | 4920, 6000 | 24. 79 | 6. 76 | 31. 55 | 54.00 | -22, 45 | AVG | |

11200.00 13750.00 16300.00 18850.00 21400.00

REMARKS:

-20

1000.00 3550.00

6100.00

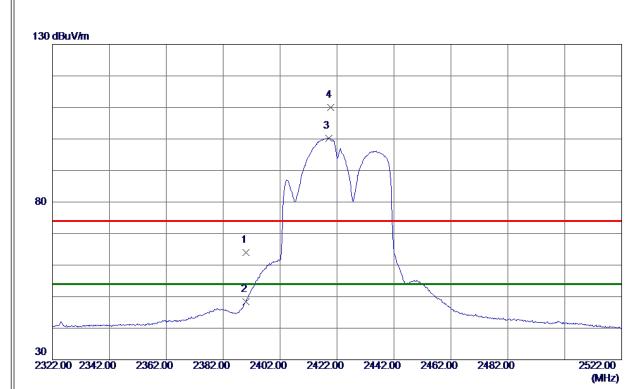
8650.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2422 MHz

Vertical



| | No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|----|-----|-----------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| l. | 1 | 2390.0000 | 53.42 | 10. 50 | 63. 92 | 74.00 | -10.08 | Peak | |
| l. | 2 | 2390.0000 | 37.94 | 10. 50 | 48.44 | 54.00 | -5. 56 | AVG | |
| l. | 3 * | 2419.0000 | 89. 69 | 10. 58 | 100. 27 | 54.00 | 46. 27 | AVG | No Limit |
| | 4 | 2419.8000 | 99. 34 | 10. 58 | 109. 92 | 74.00 | 35. 92 | Peak | No Limit |
| 1 | | | | | | | | | |

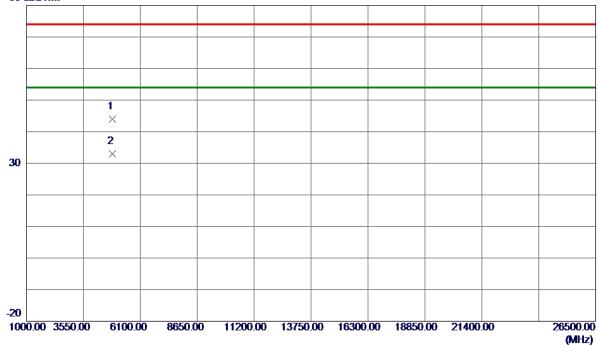
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2422 MHz

Vertical





| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4850. 4000 | 37.47 | 6. 59 | 44.06 | 74.00 | -29. 94 | Peak | |
| 2 * | 4851.7000 | 26. 46 | 6. 59 | 33.05 | 54.00 | -20. 95 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

2522.00

(MHz)



Test Mode: TX N-40M Mode 2422 MHz

Horizontal

130 dBuV/m 3 80 2

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2390.0000 | 55. 29 | 10. 50 | 65. 79 | 74.00 | -8. 21 | Peak | |
| 2 | 2390.0000 | 43.09 | 10. 50 | 53. 59 | 54.00 | -0.41 | AVG | |
| 3 | 2426. 2000 | 101.69 | 10.60 | 112. 29 | 74.00 | 38. 29 | Peak | No Limit |
| 4 * | 2426. 2000 | 92. 26 | 10.60 | 102.86 | 54.00 | 48.86 | AVG | No Limit |

2422.00

2442.00

2462.00

2482.00

REMARKS:

2322.00 2342.00

2362.00

2382.00

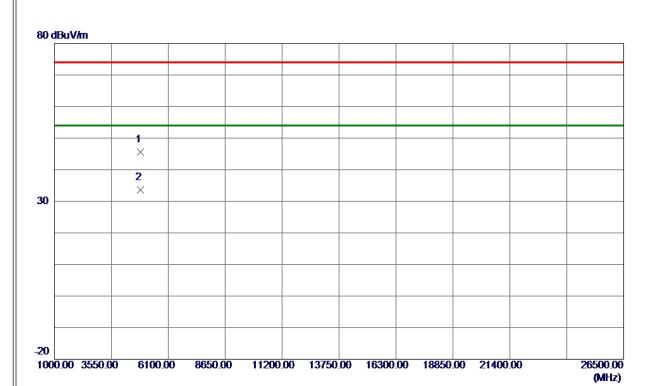
2402.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2422 MHz

Horizontal



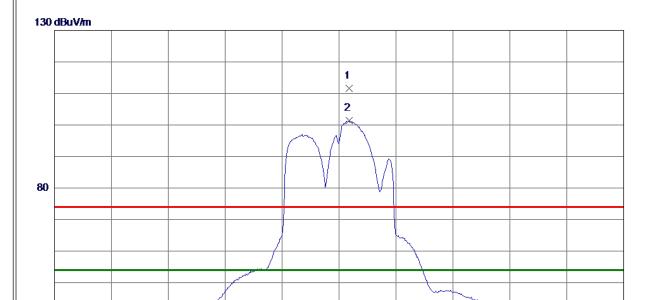
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4843.7500 | 38. 95 | 6. 57 | 45. 52 | 74.00 | -28.48 | Peak | |
| 2 * | 4844. 5500 | 26. 96 | 6. 58 | 33. 54 | 54.00 | -20.46 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2437 MHz

Vertical



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2440.6000 | 100.89 | 10.64 | 111. 53 | 74.00 | 37. 53 | Peak | No Limit |
| 2 * | 2440. 6000 | 90. 73 | 10.64 | 101. 37 | 54.00 | 47. 37 | AVG | No Limit |

2437.00

2457.00

2477.00

2497.00

2537.00 (MHz)

REMARKS:

2337.00 2357.00

2377.00

2397.00

2417.00

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2437 MHz

Vertical

80 dBuV/m



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4879.8000 | 30.87 | 6. 66 | 37. 53 | 74.00 | -36. 47 | Peak | |
| 2 * | 4881. 2000 | 43.00 | 6. 67 | 49.67 | 74.00 | -24.33 | Peak | |

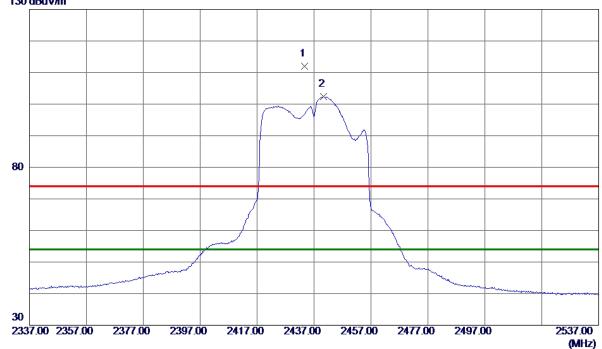
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2437 MHz

Horizontal

130 dBuV/m



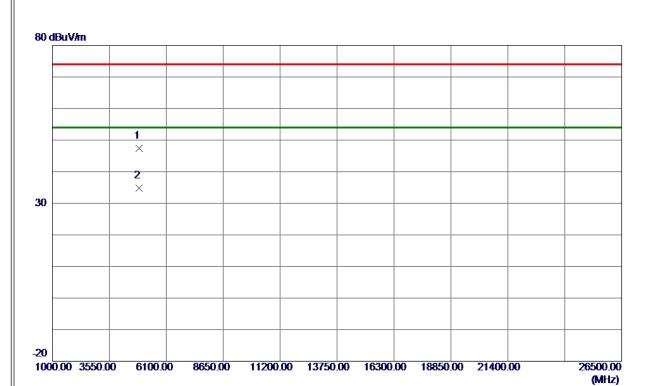
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2433.6000 | 101.33 | 10.62 | 111.95 | 74.00 | 37.95 | Peak | No Limit |
| 2 * | 2440, 4000 | 91.75 | 10.64 | 102.39 | 54.00 | 48. 39 | AVG | No Limit |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2437 MHz

Horizontal



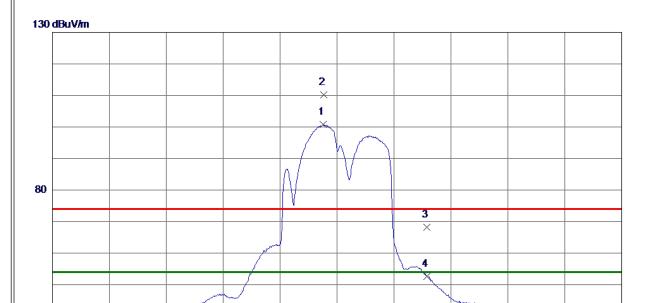
| No. | Freq. | Keading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 4874. 1500 | 40.81 | 6. 65 | 47.46 | 74.00 | -26.54 | Peak | |
| 2 * | 4874.3500 | 28. 12 | 6. 65 | 34.77 | 54.00 | -19. 23 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2452 MHz

Vertical



| Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|------------|---|-------------------|--|--|--|---|---|
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 2447. 2000 | 90.09 | 10.66 | 100.75 | 54.00 | 46.75 | AVG | No Limit |
| 2447. 4000 | 99. 61 | 10.66 | 110. 27 | 74.00 | 36. 27 | Peak | No Limit |
| 2483. 5000 | 57.47 | 10.76 | 68. 23 | 74.00 | -5. 77 | Peak | |
| 2483. 5000 | 41.91 | 10. 76 | 52. 67 | 54.00 | -1.33 | AVG | |
| | MHz 2447. 2000 2447. 4000 2483. 5000 | Freq. Level | MHz dBuV/m dB 2447.2000 90.09 10.66 2447.4000 99.61 10.66 2483.5000 57.47 10.76 | MHz dBuV/m dB dBuV/m 2447. 2000 90. 09 10. 66 100. 75 2447. 4000 99. 61 10. 66 110. 27 2483. 5000 57. 47 10. 76 68. 23 | MHz dBuV/m dB dBuV/m dBuV/m 2447. 2000 90. 09 10. 66 100. 75 54. 00 2447. 4000 99. 61 10. 66 110. 27 74. 00 2483. 5000 57. 47 10. 76 68. 23 74. 00 | MHz dBuV/m dB dBuV/m dB dBuV/m dB 2447. 2000 90. 09 10. 66 100. 75 54. 00 46. 75 2447. 4000 99. 61 10. 66 110. 27 74. 00 36. 27 2483. 5000 57. 47 10. 76 68. 23 74. 00 -5. 77 | MHz dBuV/m dB dBuV/m dBuV/m dB Detector 2447. 2000 90. 09 10. 66 100. 75 54. 00 46. 75 AVG 2447. 4000 99. 61 10. 66 110. 27 74. 00 36. 27 Peak 2483. 5000 57. 47 10. 76 68. 23 74. 00 -5. 77 Peak |

2452.00

2472.00

2492.00

2512.00

2552.00 (MHz)

REMARKS:

30

2352.00 2372.00

2392.00

2412.00

2432.00

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2452 MHz

Vertical





| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|---------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4890. 5000 | 29.02 | 6. 69 | 35.71 | 54.00 | -18. 29 | AVG | |
| 2 | 4891. 4500 | 40. 39 | 6. 69 | 47.08 | 74.00 | -26. 92 | Peak | |

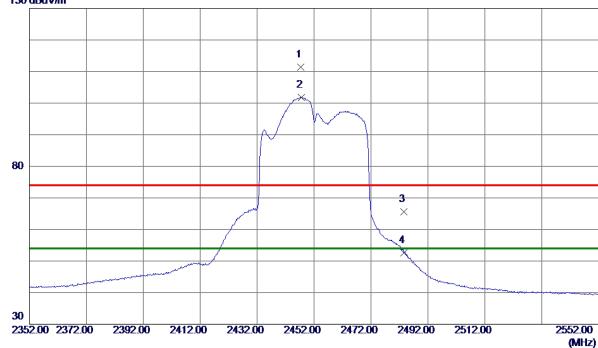
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2452 MHz

Horizontal

130 dBuV/m



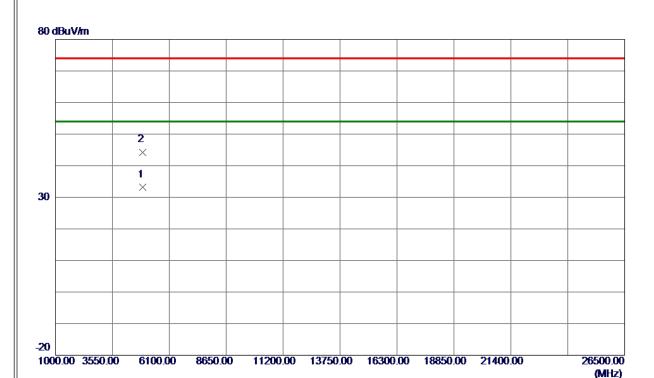
| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 2447.4000 | 100.81 | 10.66 | 111. 47 | 74.00 | 37.47 | Peak | No Limit |
| 2 * | 2447.6000 | 91. 16 | 10.66 | 101.82 | 54.00 | 47.82 | AVG | No Limit |
| 3 | 2483. 5000 | 54.91 | 10.76 | 65. 67 | 74.00 | -8. 33 | Peak | |
| 4 | 2483. 5000 | 41.87 | 10.76 | 52.63 | 54.00 | -1.37 | AVG | |

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX N-40M Mode 2452 MHz

Horizontal



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|-----|------------|------------------|-------------------|-----------------|--------|--------|----------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 4899.7500 | 26. 56 | 6.71 | 33. 27 | 54.00 | -20.73 | AVG | |
| 2 | 4902, 9500 | 37. 58 | 6. 72 | 44. 30 | 74.00 | -29.70 | Peak | |

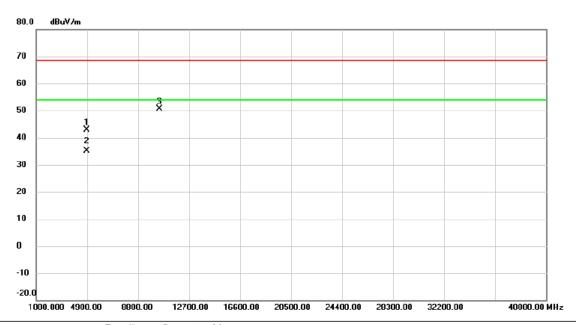
- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



The worst case of simultaneous transmission:

Test Mode: TX WLAN 2.4G N20 Mode 2437MHz + WLAN 5G AC40 Mode 5230MHz

Vertical



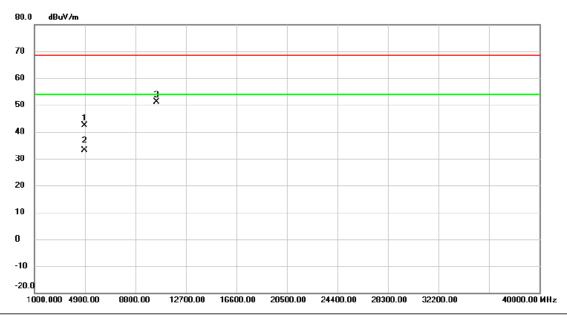
| No. | Mk | c. Freq. | Reading Level | | Measure- ment | Limit | Margin | | |
|-----|----|-----------|------------------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4869.400 | 36.14 | 6.63 | 42.77 | 68.30 | -25.53 | peak | |
| 2 | | 4872.500 | 28.56 | 6.65 | 35.21 | 54.00 | -18.79 | AVG | |
| 3 | * | 10459.545 | 35.87 | 14.80 | 50.67 | 68.30 | -17.63 | peak | |

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX WLAN 2.4G N20 Mode 2437MHz + WLAN 5G AC40 Mode 5230MHz

Horizontal



| No. | Mk | . Freq. | | | Measure- ment | | Margin | | |
|-----|-----|-----------|-------|-------|------------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 4875.720 | 35.64 | 6.65 | 42.29 | 68.30 | -26.01 | peak | |
| 2 | | 4875.750 | 26.56 | 6.65 | 33.21 | 54.00 | -20.79 | AVG | |
| 3 | * * | 10463.360 | 36.25 | 14.80 | 51.05 | 68.30 | -17.25 | peak | |

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

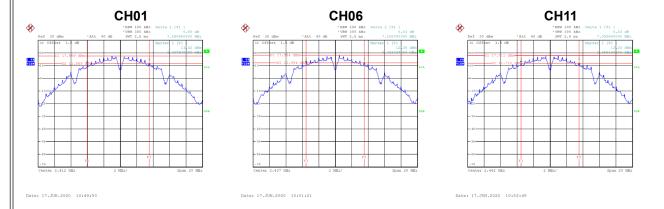


| APPENDIX E - BANDWIDTH | |
|------------------------|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



| Toot Mode | TV D Mada |
|-----------|-----------|
| Test Mode | TX B Mode |

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (kHz) | Result |
|---------|--------------------|-------------------------|---------------------------------|----------|
| 01 | 2412 | 7.60 | 500 | Complies |
| 06 | 2437 | 7.10 | 500 | Complies |
| 11 | 2462 | 7.06 | 500 | Complies |



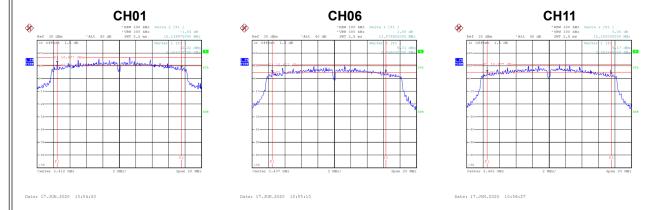
| Channel | Frequency (MHz) | 99 % Emission Bandwidth (MHz) | Result |
|---------|--------------------|-------------------------------|----------|
| 01 | 2412 | 12.64 | Complies |
| 06 | 2437 | 12.72 | Complies |
| 11 | 2462 | 12.80 | Complies |





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| П | | |
| П | Test Mode | TX G Mode |
| н | resi wode | IIA G IVIOOE |
| | | |

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (kHz) | Result |
|---------|--------------------|-------------------------|---------------------------------|----------|
| 01 | 2412 | 15.14 | 500 | Complies |
| 06 | 2437 | 13.88 | 500 | Complies |
| 11 | 2462 | 15.10 | 500 | Complies |



| Channel | Frequency (MHz) | 99 % Emission Bandwidth (MHz) | Result |
|---------|--------------------|-------------------------------|----------|
| 01 | 2412 | 18.56 | Complies |
| 06 | 2437 | 16.32 | Complies |
| 11 | 2462 | 16.32 | Complies |



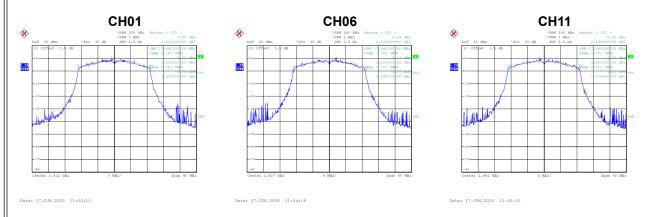


| Test Mode | TX N-20M Mode |
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| 100t Wodo | I I / C I T E C IVI IVICAC |

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (kHz) | Result |
|---------|--------------------|-------------------------|---------------------------------|----------|
| 01 | 2412 | 14.80 | 500 | Complies |
| 06 | 2437 | 13.44 | 500 | Complies |
| 11 | 2462 | 15.48 | 500 | Complies |



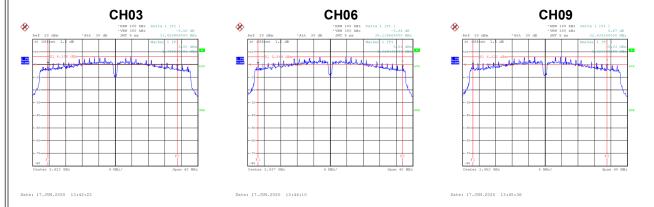
| Channel | Frequency (MHz) | 99 % Emission Bandwidth (MHz) | Result |
|---------|--------------------|-------------------------------|----------|
| 01 | 2412 | 17.44 | Complies |
| 06 | 2437 | 17.44 | Complies |
| 11 | 2462 | 17.36 | Complies |





| Т | Test Mode | Тх | N-40M | Mode |
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| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (kHz) | Result |
|---------|--------------------|-------------------------|---------------------------------|----------|
| 03 | 2422 | 31.43 | 500 | Complies |
| 06 | 2437 | 35.12 | 500 | Complies |
| 09 | 2452 | 32.64 | 500 | Complies |



| Channel | Frequency (MHz) | 99 % Emission Bandwidth (MHz) | Result |
|---------|--------------------|-------------------------------|----------|
| 03 | 2422 | 36.16 | Complies |
| 06 | 2437 | 36.16 | Complies |
| 09 | 2452 | 36.32 | Complies |





APPENDIX F - MAXIMUM OUTPUT POWER



Non Beamforming

| Test Mode | TX B Mode |
|-----------|-----------|
|-----------|-----------|

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 27.83 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 27.66 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 27.41 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 23.73 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 22.86 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 21.56 | 30.00 | 1.0000 | Complies |

Test Mode TX G Mode

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 25.78 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 26.06 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 26.54 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 20.87 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 21.41 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 21.33 | 30.00 | 1.0000 | Complies |



| Test Mode | TX N-20M Mode Ant. 1 |
|-----------|----------------------|
| | |

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 25.12 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 25.03 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 24.96 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 16.65 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 16.56 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 16.51 | 30.00 | 1.0000 | Complies |

Test Mode TX N-20M Mode_Ant. 2

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 25.44 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 25.53 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 25.49 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 16.41 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 16.96 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 16.59 | 30.00 | 1.0000 | Complies |

Test Mode TX N-20M Mode_Total

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 28.29 | 28.44 | 0.6982 | Complies |
| 06 | 2437 | 28.30 | 28.44 | 0.6982 | Complies |
| 11 | 2462 | 28.24 | 28.44 | 0.6982 | Complies |

| Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|----------------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 19.54 | 28.44 | 0.6982 | Complies |
| 06 | 2437 | 19.77 | 28.44 | 0.6982 | Complies |
| 11 | 2462 | 19.56 | 28.44 | 0.6982 | Complies |



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| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 24.98 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 24.89 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 24.83 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 03 | 2422 | 16.55 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 16.96 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 16.51 | 30.00 | 1.0000 | Complies |

Test Mode TX N-40M Mode_Ant. 2

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 25.19 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 25.43 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 25.39 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 03 | 2422 | 17.84 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 18.07 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 17.73 | 30.00 | 1.0000 | Complies |

Test Mode TX N-40M Mode_Total

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 28.10 | 28.44 | 0.6982 | Complies |
| 06 | 2437 | 28.18 | 28.44 | 0.6982 | Complies |
| 09 | 2452 | 28.13 | 28.44 | 0.6982 | Complies |

| Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|----------------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 20.07 | 28.44 | 0.6982 | Complies |
| 06 | 2437 | 20.56 | 28.44 | 0.6982 | Complies |
| 09 | 2452 | 20.17 | 28.44 | 0.6982 | Complies |



Beamforming

| Test Mode TX N-20M Mode_Ant. | it. 1 |
|------------------------------|-------|
|------------------------------|-------|

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 24.68 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 24.42 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 24.17 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 15.16 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 15.25 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 15.17 | 30.00 | 1.0000 | Complies |

Test Mode TX N-20M Mode_Ant. 2

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 25.16 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 25.39 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 25.43 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 01 | 2412 | 15.82 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 16.34 | 30.00 | 1.0000 | Complies |
| 11 | 2462 | 16.02 | 30.00 | 1.0000 | Complies |

Test Mode TX N-20M Mode_Total

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 27.94 | 28.20 | 0.6607 | Complies |
| 06 | 2437 | 27.94 | 28.20 | 0.6607 | Complies |
| 11 | 2462 | 27.86 | 28.20 | 0.6607 | Complies |

| Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|----------------------------------|---------------------|-------------------|----------|
| 01 | 2412 | 18.51 | 28.20 | 0.6607 | Complies |
| 06 | 2437 | 18.84 | 28.20 | 0.6607 | Complies |
| 11 | 2462 | 18.62 | 28.20 | 0.6607 | Complies |



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| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 24.18 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 24.44 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 24.68 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 03 | 2422 | 16.55 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 16.85 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 16.57 | 30.00 | 1.0000 | Complies |

Test Mode TX N-40M Mode_Ant. 2

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 25.43 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 25.41 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 25.11 | 30.00 | 1.0000 | Complies |

| Channel | Frequency (MHz) | Average Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|--|------------------|-------------------|----------|
| 03 | 2422 | 17.84 | 30.00 | 1.0000 | Complies |
| 06 | 2437 | 17.94 | 30.00 | 1.0000 | Complies |
| 09 | 2452 | 17.71 | 30.00 | 1.0000 | Complies |

Test Mode TX N-40M Mode_Total

| Channel | Frequency (MHz) | Peak Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|-------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 27.86 | 28.20 | 0.6607 | Complies |
| 06 | 2437 | 27.96 | 28.20 | 0.6607 | Complies |
| 09 | 2452 | 27.91 | 28.20 | 0.6607 | Complies |

| Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|--------------------|----------------------------------|---------------------|-------------------|----------|
| 03 | 2422 | 20.25 | 28.20 | 0.6607 | Complies |
| 06 | 2437 | 20.44 | 28.20 | 0.6607 | Complies |
| 09 | 2452 | 20.19 | 28.20 | 0.6607 | Complies |



APPENDIX G - CONDUCTED SPURIOUS EMISSIONS



