

Produkte

Products

| Prüfbericht - Nr.: Test Report No.: | 14043220 00 |)1 | | Seite 1 von 16 Page 1 of 16 |
|---|---|--------------------------------------|---|--|
| Auftraggeber: Client: | Shing Hing Indus Rm 2105-06, 21/F 18 Cheung Lee St Hong Kong | , Cheung Tat | Centre an | |
| Gegenstand der Prüfung: Test Item: | Short Range Dev | ice - Bluetoot | h Dartboard | |
| Bezeichnung: Identification: | GUZ SIGMA | | Serien-Nr.: Serial No.: | Engineering sample |
| Wareneingangs-Nr.: Receipt No.: | A000323181-003 | | Eingangsdatum: Date of Receipt: | 02.03.2016 |
| Prüfort: Testing Location: | Hong Kong Produ | tre, 14 Wang Ta Ictivity Counc | ai Road, Kowloon Bay, | , Kowloon, Hong Kong g |
| Zustand des Prüfgegenstan Condition of test item at delive | ndes bei Anlieferung ery: | | Test samples are no for testing. | ot damaged and suitable |
| Prüfgrundlage: Test Specification: | FCC Part 15 Sub ANSI C63.10-2013 | | | |
| Prüfergebnis: Test Results: | genannter Prufgru | undlage. | Gerät wurde geprü | ft und entspricht oben |
| Prüflaboratorium: Testing Laboratory: | TÜV Rheinland Ho | ong Kong Ltd nancial Global | | i Road, Kowloon Bay, |
| geprüft/ tested by: | | kontrolliert/ | reviewed by: | |
| Benny Lau30.05.2016Senior Project MailDatumName/StellungDateName/Position | anager Unterschrift Signature | 30.05.2010 Datum Date | Sharon Li 6 Department Manag Name/Stellung Name/Position | ger Unterschrift Signature |
| Sonstiges: Other Aspects FCC | ID: 2AFZWGDB-GZ | 002 | | |
| F(ail) = entsprid N/A = nicht an N/T = nicht ge | | | reviations: P(ass) = F(ail) = N/A = N/T = | passed failed not applicable not tested |
| Dieser Prüfbericht bezieht sic auszugsweise vervielfältigt his test report relates to the a. m. duplicated in extracts. This | test sample. Without p | ht berechtigt n Dermission of the | icht zur Verwendung e test center this test r | eines Prüfzeichens. |

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Product information

Manufacturers declarations

| | Transceiver |
|---|--|
| Operating frequency range | 2402 - 2480 MHz |
| Type of modulation | GFSK |
| Number of channels | 40 |
| Channel separation | 2 MHz |
| Type of antenna | PCB Antenna |
| Antenna gain (dBi) | 0 dBi |
| Power level | fix |
| Type of equipment | stand alone radio device |
| Connection to public utility power line | No |
| Nominal voltage | V _{nor} : 3Vdc and/ or 5 Vdc from USB |
| Independent Operation Modes | Transmitting |

Product function and intended use

The equipment under test (EUT) is a Bluetooth low energy device.

FCC ID: 2AFZWGDB-GZ002

| Models | Product description |
|-----------|--|
| GUZ SIGMA | Short Range Device - Bluetooth Dartboard |

Submitted documents

Circuit Diagram Block Diagram Bill of material User manual Label

Independent Operation Modes

The basic operation modes are:

- Transmitting mode.

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the transmitter.



Remark

The test results in this test report are only relevant to the tested sample and does not involve any assessment in the production.



Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- During test, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer (rfpower =-6dBm). The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

Special Accessories and Auxiliary Equipment

- AC-DC adaptor model: Apple A1299 (Provided by TUV)

Countermeasures to achieve EMC Compliance

- none



Test Methodology

Radiated Emission

The radiated emission measurements of the transmitter part were performed according to the procedures in ANSI C63.10-2013.

For measurement below 1GHz - the equipment under test (EUT) was placed at the middle of the 80 cm height turntable. For measurement above 1GHz - the EUT was placed at the middle of the 1.5 m height turntable and RF absorbing material was placed on ground plane between turntable and measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

FS = R + AF + CF + FA - PA

Where FS = Field Strength in dBuV/m at 3 meters.

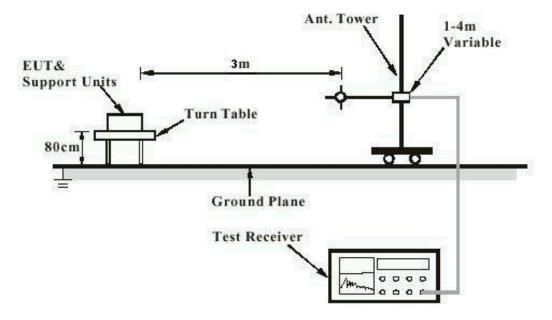
- R = Reading of Spectrum Analyzer in dBuV.
- AF = Antenna Factor in dB.
- CF = Cable Attenuation Factor in dB.
- FA = Filter Attenuation Factor in dB.
- PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.



Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

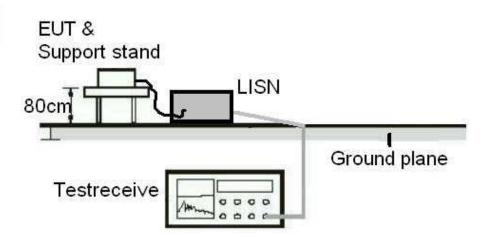
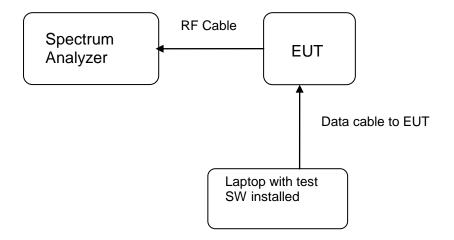




Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)





List of Test and Measurement Instruments

Hong Kong Productivity Council (Registration number: 90656)

Radiated Emission

| Equipment | Manufacturer | Туре | Cal. Date | Due Date |
|---|--------------|--------------|-----------|-----------|
| Semi-anechoic Chamber | Frankonia | Nil | 25-Apr-16 | 25-Apr-17 |
| New Fully Ancheonic | | | | |
| Chamber | TDK | N/A | 19-Apr-16 | 19-Apr-17 |
| Cable | Hubersuhner | SUCOFLEX 104 | 31-Mar-16 | 31-Mar-18 |
| Test Receiver | R & S | ESU26 | 7-Dec-15 | 07-Dec-16 |
| Bi-conical Antenna | R&S | HK116 | 1-Sep-15 | 01-Sep-17 |
| Log Periodic Antenna | R&S | HL223 | 1-Sep-15 | 01-Sep-17 |
| | | | | |
| Coaxial cable | Harbour | LL335 | 10-Jun-14 | 10-Jun-16 |
| Microwave amplifer 0.5- 26.5GHz, 25dB gain | HP | 83017A | 17-Jul-14 | 17-Jul-16 |
| High Pass Filter (cutoff freq. =1000MHz) | Trilithic | 23042 | 28-Oct-15 | 28-Oct-17 |
| Horn Antenna | EMCO | 3115 | 26-Aug-15 | 26-Aug-17 |
| Active Loop Antenna | EMCO | 6502 | 15-Aug-15 | 15-Aug-16 |

AC Mains Conducted Emission

| Equipment | Manufacturer | Туре | Cal. Date | Due Date |
|---------------------|--------------|---------|-----------|-----------|
| Test Receiver | R&S | ESU40 | 7-Dec-15 | 07-Dec-16 |
| RF Voltage Probe | Schwarzbeck | TK9416 | 10-Feb-16 | 10-Feb-17 |
| LISN | R&S | ESH3-Z5 | 15-Jun-15 | 15-Jun-16 |
| Double Shield Cable | Radiall | RG142 | 14-Sep-15 | 14-Sep-17 |
| Pulse Limiter | R&S | ESH3-Z2 | 4-Jun-14 | 04-Jun-16 |

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Radio Test

| Equipment | Manufacturer | Туре | Cal. Date | Due Date |
|-------------------|--------------|-------|-----------|-------------|
| Spectrum Analyzer | R&S | FSP30 | 12-Jan-15 | 12-Jan-2017 |



Measurement Uncertainty

The estimated combined standard uncertainty for power-line conducted emissions measurements is ±3.43dB.

The estimated combined standard uncertainty for radiated emissions measurements is ± 5.10 dB (30MHz to 200MHz) and ± 5.08 dB (200MHz to 1000MHz) and is ± 5.10 dB (30MHz to 200MHz) and ± 5.08 dB (above 1GHz).

The estimated combined standard uncertainty for antenna conducted emission is ±1.56dB

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for the level of confidence is approximately 95%.



Results FCC Part 15 – Subpart C

| FCC 15.203 – Anter | nna Requirement 1 | Pass | | |
|--|--|--------------------------------------|--|--|
| FCC Requirement: No antenna other than that furnished by the responsible party shall be used windevice | | | | |
| Results: | a) Antenna type: b) Manufacturer and model no: c) Peak Gain: | Integral PCB antenna N/A 0 dBi | | |
| Verdict: | Pass | | | |

FCC 15.204 – Antenna Requirement 2

N/A

| FCC Requirement: | An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator. |
|------------------|--|
| Results: | Only one integral antenna can be used. |
| Verdict: | N/A |

| FCC 15.207 – Conducted Emission on AC Mains | | | | | | Pass | |
|---|--|------------------------------------|-----------------|--------------------|--------------------|------------------------|--|
| | : Quasi-pea : 9 kHz ge : 120Vac 60 | input port of pow k and Average | ver supply | | | | |
| Requirement | : 15.207(a) | | | | | | |
| Results: | Pass | | | | | | |
| Live measur | rement | | | | | | |
| Frequency range (MHz) | Frequency (MHz) | Quasi-peak dBµV | Average dBµV | Limit QP (dBµV) | Limit AV (dBµV) | Verdict | |
| 0,15 – 0,5 | No peak found | | | 66 - 56 | 56 - 46 | Pass | |
| > 0,5 - 5 | 0.726 | 37.7 | 20.0 | 56 | 46 | Pass | |
| > 5 - 30 | No peak found | | | 60 | 50 | Pass | |
| | | | | | | | |
| Neutral mea | surement | | | | | | |
| Neutral mea Frequency range (MHz) | surement Frequency (MHz) | Quasi-peak dBµV | Average dBµV | Limit QP (dBµV) | Limit AV (dBµV) | Verdict | |
| Frequency range | Frequency | | | | | Verdict Pass | |



| > 5 - 30 | No peak found | | | 60 | 50 | Pass | |
|---|--|--|--|----|----|------|--|
| Results: | Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. | | | | | | |
| The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1, page 2. | | | | | | | |

| FCC 15.247 (a)(2) – 6dB Bandwidth Measurement Pass FCC Requirement: Systems using digital modulation techniques may operate in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500kHz. | | | | |
|---|-----------------------|---------------------|-------------------------|--|
| Detector : Peak RBW/VBW : 100KHz/ Supply voltage : 3.7 Vdc Temperature : 23°C Humidity : 50% | e Iry antenna port | ppendix 1 | | |
| Channel frequency (MHz) | 6 dB left (MHz) | 6 dB right (MHz) | 6dB bandwidth (kHz) | |
| 2402 | 2401.664 | 2402.344 | 680 | |
| 2440 | 2439.656 | 2440.340 | 684 | |
| 2480 | 2479.644 | 2480.332 | 688 | |
| FCC 15.247(b)(3) – Maximu | m Peak Conducted Out | put Power | Pass | |
| | | | 100-2483.5 MHz, and 572 | |

| Test Specification | : ANSI C63.10 – 2013 |
|--------------------|--------------------------|
| Mode of operation | : TX mode |
| Port of testing | : Temporary antenna port |
| Detector | : Peak |
| Supply voltage | : 3.7 Vdc |
| Temperature | : 23°C |
| Humidity | : 50% |
| | |

| Results: For test protocols please refer to Appendix 1 |
|---|
|---|

| Frequency (MHz) | Measured Output Power (dBm) | Limit (W/dBm) | Verdict |
|--------------------|--------------------------------|------------------|---------|
| 2402 | -7.61 | 1 / 30.0 | Pass |
| 2440 | -8.22 | 1 / 30.0 | Pass |
| 2480 | -9.06 | 1 / 30.0 | Pass |



| FCC 15.247(e) – Power Spectral Density | | | Pass | |
|---|------------------------|----------------|---------|--|
| FCC Requirement: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. | | | | |
| Test Specification: ANSI C63.10 - 2013Mode of operation: TX modePort of testing: Temporary antenna portDetector: PeakRBW/VBW: $\geq 100 \text{ KHz} / \geq 3x \text{RBW}$ span: $\geq 1.5 \text{ x DTS BW}$ Supply voltage: 3.7 VdcTemperature: 23°CHumidity: 50% | | | | |
| Results: For test protocols please refer to Appendix 1 | | | | |
| Operating frequency (MHz) | Power density (dBm) | Limit (dBm) | Verdict | |
| 2402 | -7.96 | 8.0 | Pass | |
| 2440 | -8.70 8.0 | | Pass | |
| 2480 | -9.29 8.0 Pass | | | |

| FCC 15.247(d) – Spurious Conducted Emissions | | | | Pass | 3 |
|--|--|----------------|-----------------|--------|---------|
| Mode of operation : Port of testing : Detector : RBW/VBW : Supply voltage : Temperature : | : ANSI C63.10 – 2013 : TX mode : Temporary antenna port : Peak : 100 kHz / 300 kHz : 3.7 Vdc : 23 °C : 50 % | | | | |
| FCC Requirement: | FCC Requirement: 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. | | | | |
| Results:Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.Only the worst cases is shown below. For test protocols refer to Appendix 1 | | | | | ssible |
| Operating | Spurious | Spurious Level | Reference value | Delta | Verdict |
| frequency | frequency | (dBm) | (dBm) | (dB) | |
| (MHz) | (MHz) | | | | |
| 2402 | 2399.280 | -42.26 | -7.96 | -34.30 | Pass |
| 2440 | 23128.000 | -31.97 | -8.70 | -23.27 | Pass |
| 2480 | 24568.000 | -31.46 | -9.29 | -22.17 | Pass |



| FCC 15.205 – Radi | ated Emissions in R | Restricted Frequency Bands | Pass |
|--|---|---|--|
| Test Specification | : ANSI C63.10 – 201 | 3 | |
| Mode of operation | | - | |
| Port of testing | | | |
| | : Peak | | |
| RBW/VBW | 100 kHz / 300 kHz for f < 1 GHz 1 MHz / 3 MHz for f > 1 GHz | | |
| Supply voltage | 3.7 Vdc | | |
| | 23°C | | |
| Humidity | 50% | | |
| FCC Requirement: | level of the desired | power. In addition, radiated em n section15.205(a), must also c | and at least 20dB below the highest nissions which fall in the restricted comply with the radiated emission |
| Results: | | conducted to determine the wo | orst-case mode from all possible data rate. |
| | All three transmit fro | equency modes comply with th | e field strength within the restricted |
| | bands. There is no | spurious found below 30MHz. | |
| Mode: 2402MHz TX | < | Vertical Polarization | |
| | | | |
| Freq | | Level | Limit/ Detector |
| MHz | | dBuV/m | dBuV/m |
| MHz 2390.0 | 00 | dBuV/m 45.09 | dBuV/m 74.0 / PK |
| MHz 2390.0 2390.0 | 00 00 | dBuV/m 45.09 33.07 | dBuV/m 74.0 / PK 54.0 / AV |
| MHz 2390.0 2390.0 4804.0 | 00 00 00 00 | dBuV/m 45.09 33.07 57.21 | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 | 00 00 00 00 00 | dBuV/m 45.09 33.07 57.21 49.28 | dBuV/m 74.0 / PK 54.0 / AV |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 | 00 00 00 00 00 X | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq | 00 00 00 00 00 X | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV Limit/ Detector |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz | 00 00 00 00 00 X | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 | 00 00 00 00 00 X 2 00 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz | 00 00 00 00 00 X X 00 00 00 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 | 00 00 00 00 00 X X I | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 | 00 00 00 00 00 X X 1 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 74.0 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq | 00 00 00 00 00 X X 1 00 00 00 00 00 00 X | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz | 00 00 00 00 00 X X 1 00 00 00 00 00 00 00 00 00 00 00 00 0 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Freq MHz Freq MHz 4880.0 | 00 00 00 00 00 X X 1 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz | 00 00 00 00 00 X X 1 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 100 / PK 100 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Freq MHz Freq MHz 4880.0 | 00 00 00 00 00 X X 00 00 00 00 00 00 00 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.20 44.57 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV Limit/ Detector dBuV/m 74.0 / PK 54.0 / AV 54.0 / AV |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq MHz 4880.0 4880.0 4880.0 Freq | 00 00 00 00 00 X X 00 00 00 00 00 00 00 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 1 <tr< td=""></tr<> |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz T2 Freq MHz 2390.0 2390.0 2390.0 4804.0 4804.0 4804.0 4804.0 4804.0 4804.0 Mode: 2440 MHz T2 Freq MHz 4880.0 4880.0 4880.0 4880.0 | 00 00 00 00 00 X X 1 00 00 00 00 00 00 00 00 00 00 00 00 0 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level dBuV/m | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 100 / PK 100 / PK |
| MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2402 MHz TZ Freq MHz 2390.0 2390.0 4804.0 4804.0 Mode: 2440 MHz TZ Freq MHz 4880.0 4880.0 TFreq MHz 500 - 200 - | 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 | dBuV/m 45.09 33.07 57.21 49.28 Horizontal Polarization Level dBuV/m 45.37 33.05 56.20 44.67 Vertical Polarization Level dBuV/m 56.20 44.67 Vertical Polarization Level dBuV/m 56.26 47.57 Horizontal Polarization Level | dBuV/m 74.0 / PK 54.0 / AV 74.0 / PK 54.0 / AV 54.0 / AV 54.0 / AV 54.0 / AV 1 <tr< td=""></tr<> |



| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m |
|-------------------|-------------------------|---------------------------|
| 2483.500 | 49.28 | 74.0 / PK |
| 2483.500 | 37.99 | 54.0 / AV |
| 4960.000 | 55.77 | 74.0 / PK |
| 4960.000 | 46.63 | 54.0 / AV |
| Mode: 2480 MHz TX | Horizontal Polarization | |
| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m |
| 2483.500 | 48.73 | 74.0 / PK |
| 2483.500 | 37.44 | 54.0 / AV |
| 7440.000 | 55.81 | 74.0 / PK |
| 7440.000 | 44.36 | 54.0 / AV |