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| Prüfbericht-Nr.: <i>Test Report No.:</i> | CN21DD82 001 | Auftrags-Nr.: <i>Order No.:</i> | 158226611 | Seite 1 von 18 <i>Page 1 of 18</i> |
| Kunden-Referenz-Nr.: <i>Client Reference No.:</i> | N/A | Auftragsdatum: <i>Order date:</i> | 18.02.2021 | |
| Auftraggeber: <i>Client:</i> | VTech Electronics Limited 23F Tai Ping Industrial Center, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong | | | |
| Prüfgegenstand: <i>Test item:</i> | LeapLand Adventures, ABC SMILE TV, L'aventure LeapLand | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | 6132 80-6132xx, (xx=00~99, see model differences for details) | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC and ISED Certification | | | |
| Prüfgrundlage: <i>Test specification:</i> | FCC Part 15 Subpart C, ANSI C63.10-2013 RSS-247 Issue 2, RSS-Gen Issue 5 | | | |
| Wareneingangsdatum: <i>Date of receipt:</i> | 04.03.2021 |  | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A003006149-001 | | | |
| Prüfzeitraum: <i>Testing period:</i> | 04.03.2021 - 15.03.2021 | | | |
| Ort der Prüfung: <i>Place of testing:</i> | Hong Kong | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland Hong Kong Ltd. | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | |
| geprüft von / tested by: | | kontrolliert von / reviewed by: | | |
|  25.05.2021 Felicia Chan / Assistant Engineer | |  25.05.2021 Sharon Li / Senior Manager | | |
| Datum <i>Date</i> | Name / Stellung <i>Name / Position</i> | Unterschrift <i>Signature</i> | Datum <i>Date</i> | Name / Stellung <i>Name / Position</i> |
| | | | | |
| Sonstiges / Other: FCC ID: G2R-6132 IC: 1135D-6132 HVIN: 6132 | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt <i>Condition of the test item at delivery:</i> <i>Test item complete and undamaged</i> | | | | |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested | | | | |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> | | | | |

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Product information

Manufacturers declarations

| | Transceiver |
|---|--------------------------|
| Operating frequency range | 2408 - 2472 MHz |
| Type of modulation | GFSK |
| Number of channels | 3 |
| Type of antenna | Integral 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 | 3.0VDC |
| Independent Operation Modes | Transmitting |

Product function and intended use

The equipment under test (EUT) is a SRD Remote controller.

FCC ID: G2R-6132/ IC: 1135D-6132 **HVIN: 6132**

| Models | Product description |
|---------------|----------------------------|
| 6132 | Remote controller |

The manufacturer declares that all models listed in the below table are all identical in schematics, PCB layout, and electronic components used except model number.

| Model No. | Sub model no. | Model Name | Color | Version | Language |
|-----------|---------------|---------------------|-------|---------|----------|
| 6132 | 80-613203 | LeapLand Adventures | Green | UK | English |
| 6132 | 80-613200 | LeapLand Adventures | Green | US | English |
| 6132 | 80-613200 | LeapLand Adventures | Green | CAN | English |
| 6132 | 80-613206 | L'aventure LeapLand | Green | CAN | FR |
| 6132 | 80-613265 | ABC Smile TV | Blue | FR | FR |
| 6132 | 80-613267 | ABC Smile TV | Blue | SP | SP |
| 6132 | 80-613254 | ABC Smile TV | Pink | GER | GER |
| 6132 | 80-613264 | ABC Smile TV | Blue | GER | GER |
| 6132 | 80-613262 | ABC Smile TV | Blue | NL | NL |

Submitted documents

Circuit Diagram
Block Diagram
Technical Description
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.

- A test mode sample is provided by the applicant to control the operating channel. The RF output power is fixed in the test mode sample. The setting of the RF output power used in the testing shall be fixed on the firmware of the final end product.

Special Accessories and Auxiliary Equipment

- None

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:

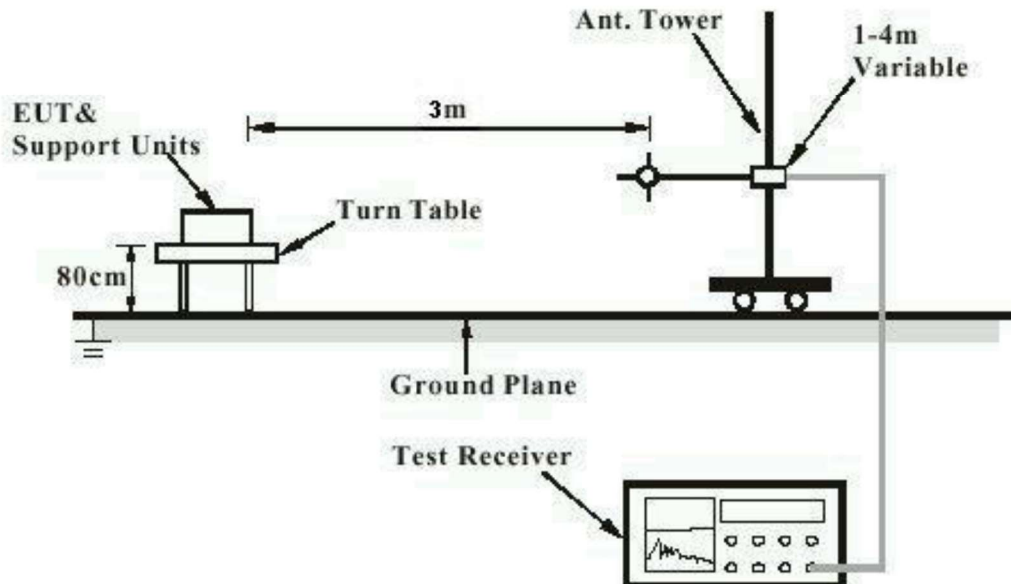
$$FS = R + AF + CF + FA - PA$$

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)

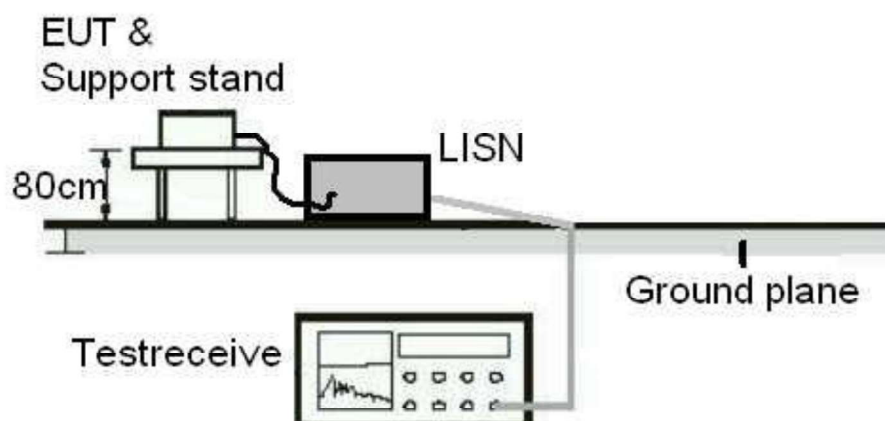
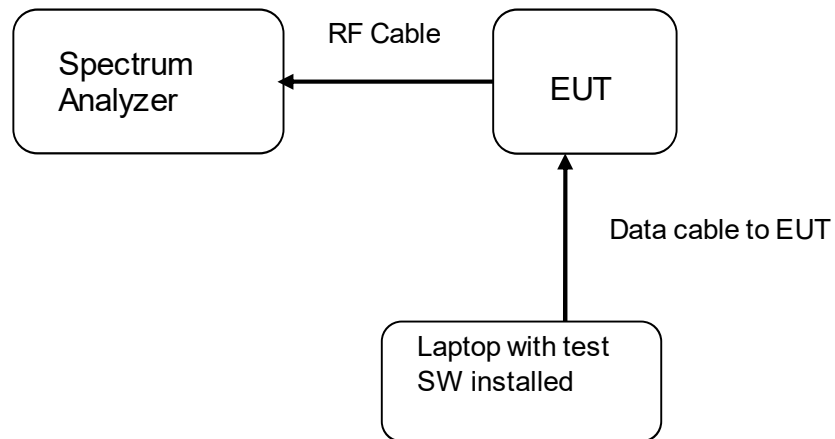


Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)

Test Facility

Test Laboratory Information

TÜV Rheinland Hong Kong Ltd.
Address: 3-4, 11/F., Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, N.T., Hong Kong
Tel.: +852 2192 1000
Fax: +852 2192 1001
Email service-gc@tuv.com
Web: www.tuv.com

The test facility is recognized or accredited by the following organizations:

FCC

| | |
|-------------------------------|-------------------------|
| Type | : Accredited Test Firm |
| Designation Number | : HK0013 |
| Test Firm Registration Number | : 371735 |
| Scope | : Intentional Radiators |

Industry Canada

The 10m Semi-anechoic chamber used by TÜV Rheinland Hong Kong Ltd at Hong Kong Productivity Council has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

Test Site Registration Number : 26152

List of Test and Measurement Instruments

Radiated Emission

| Equipment | Manufacturer | Type | Cal. Date | Due Date |
|---|-----------------------|-----------------------|-----------|-----------|
| Multi-functional Anechoic Chamber (SVSWR) | Albatross | N/A | 04 Jan 21 | 04 Jan 22 |
| Standard Gain Horn | ETS-Lindgren | 3160-07 | 24 Nov 20 | 24 Nov 22 |
| Standard Gain Horn | ETS-Lindgren | 3160-08 | 24 Nov 20 | 24 Nov 22 |
| Standard Gain Horn | ETS-Lindgren | 3160-10 | 30 Nov 20 | 30 Nov 22 |
| Double-Ridged Waveguide Horn | EMCO | 3116 | 30 Nov 20 | 30 Nov 22 |
| Double-Ridged Waveguide Horn | EMCO | 3117 | 11 Nov 20 | 11 Nov 22 |
| Test Receiver | R & S | ESU26 | 07 Oct 20 | 07 Oct 21 |
| Coaxial cable | Huber+Suhner | SF118/11N/11N/12000MM | 07 Jan 21 | 07 Jan 23 |
| Microwave Preamplifier | COM-POWER Corporation | PAM-118A | 06Mar 20 | 06 Mar 21 |
| Preamplifier 18GHz to 40GHz with cable | A.H. Systems, Inc. | PAM-1840VH | 29 Jan 21 | 29 Jan 22 |
| High Pass Filter (cutoff freq. =1000MHz) | Trilithic | 23042 | 30 Oct 19 | 30 Oct 21 |
| High Frequency Cable | Pasternack | PE3VNA4001-3M | 29 Jan 21 | 29 Jan 23 |
| Multi-functional Anechoic Chamber (NSA) | Albatross | Nil | 6-Jan-21 | 6-Jan-22 |
| Bi-conical Antenna | R & S | HK116 | 15-Sep-20 | 15-Sep-22 |
| Log Periodic Antenna | R & S | HL223 | 15-Sep-20 | 15-Sep-22 |
| Coaxial cable | Huber+Suhner | SF118/11N/11N/12000MM | 7-Jan-21 | 7-Jan-23 |
| Active Loop Antenna | EMCO | 6502 | 3-Nov-20 | 3-Nov-22 |

Radio Test

| Equipment | Manufacturer | Type | Cal. Date | Due Date |
|-------------------|--------------|-------|-----------|-----------|
| Spectrum Analyzer | R & S | FSV40 | 21 Jan 21 | 21 Jan 22 |

Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-----------------------------------|
| 1 | Conducted emission 9KHz-150KHz | ±3.2 dB |
| 2 | Conducted emission 150KHz-30MHz | ±2.7 dB |
| 3 | Radiated emission 9KHz-30MHz | ± 4.7 dB |
| 4 | Radiated emission 30MHz-1GHz | ± 4.9 dB |
| 5 | Radiated emission 1GHz-18GHz | ± 4.8 dB |
| 6 | Radiated emission 18GHz-26GHz | ± 5.1 dB |
| 7 | Radiated emission 26GHz-40GHz | ± 5.1 dB |
| 8 | Conducted spurious emissions | ± 2.7 dB |
| 9 | RF Power, Conducted | ± 0.9 dB |
| 10 | Occupied Bandwidth | ± 1.86 % |
| 11 | Radio Frequency | 2.4 GHz: ± 6.5 x 10 ⁻⁸ |
| 12 | Transmission Time | ± 0.19 % |

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 / RSS-247 Issue 2

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

| | | |
|--|--|-------------|
| FCC 15.204 – Antenna Requirement 2 | | Pass |
| 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 | |

| | | |
|---|--|-------------|
| RSS-Gen 6.3 – External Control | | Pass |
| IC Requirement: The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the limits prescribed in the applicable RSS. | | |
| Results: | The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard. | |
| Verdict: | Pass | |

| | | |
|---|---|-------------|
| RSS-Gen 8.3 – Antenna Requirement | | Pass |
| IC Requirement: When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. | | |
| Results: | a) Antenna type: Integral PCB Antenna b) Manufacturer: N/A c) model no: N/A d) Gain with reference to an isotropic radiator: 0 dBi | |
| Verdict: | Pass | |

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|---|------------|
| FCC 15.207/ RSS-Gen 8.8 – Conducted Emission on AC Mains | N/A |
| There is no AC power input or output ports on the EUT. | |

| | | |
|---|----------------------------|--------------------|
| FCC 15.247 (a)(2) / RSS-247 5.2 – 6dB Bandwidth Measurement | Pass | |
| FCC/ IC 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. | | |
| Test Specification : ANSI C63.10 – 2013 Test date : 10.03.2021 Mode of operation : Tx mode Supply voltage : 3VDC Temperature : 23°C Humidity : 51% | | |
| Results: For test protocols please refer to Appendix 1 | | |
| Channel frequency (MHz) | 6dB bandwidth (kHz) | Limit (kHz) |
| 2408 | 1064 | 500 |
| 2438 | 813 | 500 |
| 2472 | 883.5 | 500 |

| | |
|--|----------------------------|
| RSS-Gen 6.6 – Occupied Bandwidth | Pass |
| FCC/ IC Requirement: N/A | |
| Test Specification : RSS-Gen Test date : 10.03.2021 Mode of operation : Tx mode Supply voltage : 3VDC Temperature : 23°C Humidity : 51% | |
| Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and packet types. For test protocols refer to Appendix 1. | |
| Frequency (MHz) | 99% bandwidth (MHz) |
| 2402 | 4.624 |
| 2440 | 3.720 |
| 2480 | 3.461 |

| FCC 15.247(b)(3) / RSS-247 5.4 – Maximum Peak Conducted Output Power | | | | Pass |
|---|-----------------|-----------------------------|-------------|-------------|
| FCC/ IC Requirement: For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt (30dBm) | | | | |
| Test Specification : ANSI C63.10 – 2013 Test date : 10.03.2021 Mode of operation : Tx mode Supply voltage : 3VDC Temperature : 23°C Humidity : 51% | | | | |
| Results: For test protocols please refer to Appendix 1 | | | | |
| Frequency (MHz) | Cable loss (dB) | Measured Output Power (dBm) | Limit (dBm) | Verdict |
| 2408 | 0.5 | -1.58 | 30.0 | Pass |
| 2438 | 0.5 | -1.48 | 30.0 | Pass |
| 2472 | 0.5 | -1.32 | 30.0 | Pass |

| FCC 15.247(e) / RSS-247 5.2 – Power Spectral Density | | | | Pass |
|---|-----------------|---------------------|-------------|-------------|
| FCC/ IC 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 – 2013 Test date : 10.03.2021 Mode of operation : Tx mode Supply voltage : 3VDC Temperature : 23°C Humidity : 51% | | | | |
| Results: For test protocols please refer to Appendix 1. | | | | |
| Frequency (MHz) | Cable loss (dB) | Power density (dBm) | Limit (dBm) | Verdict |
| 2408 | 0.5 | -15.053 | 8.0 | Pass |
| 2438 | 0.5 | -15.487 | 8.0 | Pass |
| 2472 | 0.5 | -14.704 | 8.0 | Pass |

| FCC 15.247(d) / RSS-247 5.5 – Spurious Conducted Emissions | | | | | | Pass |
|--|---------------------------------|-----------------------------|------------------------------|--------------------|--------------------|----------------|
| Test Specification : ANSI C63.10 – 2013 Test date : 20.10.2020 Mode of operation : Tx mode Supply voltage : 3VDC Temperature : 25°C Humidity : 56% | | | | | | |
| FCC/ IC 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 | | | | | | |
| Operating frequency (MHz) | Spurious frequency (MHz) | Spurious Level (dBm) | Reference value (dBm) | Limit (dBm) | Margin (dB) | Verdict |
| 2408 | 7225.1 | -40.873 | -1.255 | -21.255 | 19.613 | Pass |
| 2438 | 7313.1 | -37.355 | 1.514 | -18.486 | 18.869 | Pass |
| 2472 | 7414.9 | -39.946 | -0.365 | -20.365 | 19.581 | Pass |

| FCC 15.205/ RSS-Gen 8.9 – Radiated Emissions in Restricted Frequency Bands | | | Pass |
|---|--------------|--|-------------|
| Test Specification : ANSI C63.10 – 2013 Test date : 06.03.2021 Mode of operation : Tx mode Frequency range : 9kHz – 25GHz Supply voltage : 3VDC Temperature : 25.2°C Humidity : 50% | | | |
| FCC/ IC Requirement: In any 100kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission general limits. | | | |
| Results: | | Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. All three transmit frequency modes comply with the field strength within the restricted bands. There is no spurious found below 30MHz. | |
| Mode: 2408 MHz TX | | Vertical Polarization | |
| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m | |
| 2390.000 | 41.29 | 74.0 / PK | |
| 2390.000 | 27.63 | 54.0 / AV | |
| 4816.000 | 39.80 | 74.0 / PK | |
| 4816.000 | 26.23 | 54.0 / AV | |
| 7224.000 | 45.20 | 74.0 / PK | |
| 7224.000 | 29.73 | 54.0 / AV | |
| Mode: 2408 MHz TX | | Horizontal Polarization | |
| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m | |
| 2390.000 | 41.83 | 74.0 / PK | |
| 2390.000 | 28.05 | 54.0 / AV | |
| 4816.000 | 37.73 | 74.0 / PK | |
| 4816.000 | 26.22 | 54.0 / AV | |
| 7224.000 | 42.56 | 74.0 / PK | |
| 7224.000 | 29.84 | 54.0 / AV | |
| Mode: 2438 MHz TX | | Vertical Polarization | |
| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m | |
| 4876.000 | 43.58 | 74.0 / PK | |
| 4876.000 | 25.85 | 54.0 / AV | |
| 7314.000 | 45.02 | 74.0 / PK | |
| 7314.000 | 31.81 | 54.0 / AV | |
| Mode: 2438 MHz TX | | Horizontal Polarization | |
| Freq MHz | Level dBuV/m | Limit/ Detector dBuV/m | |
| 4876.000 | 49.33 | 74.0 / PK | |
| 4876.000 | 25.91 | 54.0 / AV | |
| 7314.000 | 44.27 | 74.0 / PK | |
| 7314.000 | 32.00 | 54.0 / AV | |

| Mode: 2472 MHz TX | | | Vertical Polarization | | |
|-------------------|--|-----------------|-------------------------|---------------------------|--|
| Freq MHz | | Level dBuV/m | | Limit/ Detector dBuV/m | |
| 2483.500 | | 41.20 | | 74.0 / PK | |
| 2483.500 | | 27.17 | | 54.0 / AV | |
| 4944.000 | | 38.19 | | 74.0 / PK | |
| 4944.000 | | 26.84 | | 54.0 / AV | |
| 7416.000 | | 41.65 | | 74.0 / PK | |
| 7416.000 | | 29.50 | | 54.0 / AV | |
| Mode: 2472 MHz TX | | | Horizontal Polarization | | |
| Freq MHz | | Level dBuV/m | | Limit/ Detector dBuV/m | |
| 2483.500 | | 43.48 | | 74.0 / PK | |
| 2483.500 | | 28.50 | | 54.0 / AV | |
| 4944.000 | | 38.94 | | 74.0 / PK | |
| 4944.000 | | 26.60 | | 54.0 / AV | |
| 7416.000 | | 49.28 | | 74.0 / PK | |
| 7416.000 | | 29.06 | | 54.0 / AV | |