

RF TEST REPORT

Product Name: Tablet

Model Name: Vortex BTAB10

FCC ID: 2ADLJ-BTAB10

Issued For : Xwireless LLC

11565 0ld Georgetown Road, Rockville, MD, USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

| Report Number: | LGT23H049RF05 |
|-----------------------|-------------------------------|
| Sample Received Date: | Aug. 18, 2023 |
| Date of Test: | Aug. 18, 2023 – Sep. 18, 2023 |
| Date of Issue: | Sep. 18, 2023 |

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TEST REPORT CERTIFICATION

| Applicant: | Xwireless LLC |
|----------------|---|
| Address: | 11565 0ld Georgetown Road, Rockville, MD, USA |
| Manufacturer: | Xwireless LLC |
| Address: | 11565 0ld Georgetown Road, Rockville, MD, USA |
| Product Name: | Tablet |
| Trademark: | N/A |
| Model Name: | Vortex BTAB10 |
| Sample Status: | Normal |

| APPLICABLE STANDARDS | | | |
|---|--------------|--|--|
| STANDARD | TEST RESULTS | | |
| FCC Part 22H and 24E, 27 | PASS | | |
| KDB 971168 D01 v03r01, ANSI C63.26(2015) | | | |

Prepared by:

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Technical Director

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Revision History

| Rev. | Issue Date | Contents |
|------|---------------|---------------|
| 00 | Sep. 18, 2023 | Initial Issue |
| | | |

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26-2015

| FCC Rules | Test Description | Test Limit | Test Result | Reference |
|-------------------------------------|--|---|-------------|-----------|
| 2.1046 | Conducted Output Power | Reporting Only | PASS | |
| 22.913d 24.232d | Peak-to-Average Ratio | < 13 dB | PASS | |
| 2.1046 22.913 24.232 27.50 | Effective Radiated Power/Equivalent Isotropic Radiated Power | < 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) <1 Watts max. EIRP(Part 27) | PASS | |
| 2.1049 22.917 24.238 27.53 | Occupied Bandwidth | Reporting Only | PASS | |
| 2.1055 22.355 24.235 27.54 | Frequency Stability | < 2.5 ppm (Part 22) Emission must remain in band (Part 24) Emission must remain in band (Part 27) | PASS | |
| 2.1051 22.917 24.238 27.53 | Spurious Emission at Antenna Terminals | < 43+10log10(P[Watts]) | PASS | |
| 2.1053 22.917 24.238 27.53 | Field Strength of Spurious Radiation | < 43+10log10(P[Watts]) | PASS | |
| 2.1051 22.917 24.238 27.53 | Band Edge | < 43+10log10(P[Watts]) | PASS | |

2 INTRODUCTION

2.1 TEST FACTORY

| Company Name: | Shenzhen LGT Test Service Co., Ltd. |
|---|-------------------------------------|
| Address:Room 205, Building 13, Zone B, Zhenxiong Industrial Park, Ne Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China | |
| | A2LA Certificate No.: 6727.01 |
| Accreditation Certificate | FCC Registration No.: 746540 |
| | CAB ID: CN0136 |

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26. All measurement uncertainty values are shown with a coverage factor of k = 2 toindicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPRmeasurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly tospecified limits to determine compliance.

| No. | Item | Uncertainty |
|-----|-----------------------------------|-------------|
| 1 | RF output power, conducted | ±0.68dB |
| 2 | Unwanted Emissions, conducted | ±2.988dB |
| 3 | All emissions, radiated 9K-30MHz | ±2.84dB |
| 4 | All emissions, radiated 30M-1GHz | ±4.39dB |
| 5 | All emissions, radiated 1G-6GHz | ±5.10dB |
| 6 | All emissions, radiated>6G | ±5.48dB |
| 7 | Conducted Emission (9KHz-150KHz) | ±2.79dB |
| 8 | Conducted Emission (150KHz-30MHz) | ±2.80dB |

Note: The measurement uncertainty is not included in the test result.

3 PRODUCT INFORMATION

| Product Name: | Tablet | | |
|-----------------------------|---|--|--|
| Trademark: | N/A | | |
| Model Name: | Vortex BTAB10 | | |
| Series Model: | N/A | | |
| Model Difference: | N/A | | |
| Tx Frequency: | GPRS/EDGE: 850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz WCDMA: Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz | | |
| Rx Frequency: | GPRS/EDGE: 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990MHz WCDMA: Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz | | |
| Modulation Characteristics: | GMSK for GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK | | |
| SIM Card: | SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM is used to tested. | | |
| Antenna: | FPC | | |
| Antenna gain: | GSM 850: -1.54dBi GSM 1900: 1.66dBi WCDMA B2: 1.66dBi WCDMA B4: 1.83dBi WCDMA B5: -1.54dBi | | |
| Adapter: | Input: 100-240V, 50/60Hz 0.3A Output: 5V, 2.0A | | |
| Battery: | Capacity: 5000mAh, 18.5Wh Rated Voltage: 3.7V | | |
| GPRS Class: | Multi-Class12 | | |
| Extreme Vol. Limits: | 3.3V to 4.2V (Nominal 3.7V) | | |
| Extreme Temp. Tolerance: | -0°℃ to +40°℃ | | |
| Hardware version: | P612K_MB_V1 | | |
| | N/A | | |

** Note: The High Voltage 4.2V and Low Voltage 3.3V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850/WCDMA Band V.

2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band I/ WCDMA IV.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst-case configuration below:

| | TEST MODES | | |
|---------------|-------------------------------------|-------------------------------------|--|
| BAND | RADIATED TCS | CONDUCTED TCS | |
| GSM 850 | GSM LINK GPRS/EDGE CLASS 12 LINK | GSM LINK GPRS/EDGE CLASS 12 LINK | |
| GSM 1900 | GSM LINK GPRS/EDGE CLASS 12 LINK | GSM LINK GPRS/EDGE CLASS 12 LINK | |
| WCDMA BAND V | RMC 12.2KBPS LINK | RMC 12.2KBPS LINK | |
| WCDMA BAND IV | RMC 12.2KBPS LINK | RMC 12.2KBPS LINK | |
| WCDMA BAND II | RMC 12.2KBPS LINK | RMC 12.2KBPS LINK | |

5 MEASUREMENT INSTRUMENTS

| Radiated Test equipment | | | | | |
|-------------------------|---------------------|-------------------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until |
| EMI Test Receiver | R&S | ESU8 | 100372 | 2023.04.13 | 2024.04.12 |
| Active loop Antenna | ETS | 6502 | 00049544 | 2022.06.02 | 2025.06.01 |
| Spectrum Analyzer | Keysight | N9010B | MY60242508 | 2023.04.10 | 2024.04.09 |
| Bilog Antenna(30M-1G) | SCHWARZBECK | VULB 9168 | 2705 | 2022.06.05 | 2025.06.04 |
| Horn Antenna(1-18G) | SCHWARZBECK | 3115 | 10SL0060 | 2022.06.02 | 2025.06.01 |
| Horn Antenna(18-40G) | A-INFO | LB-180400-KF | J211060273 | 2022.06.08 | 2025.06.07 |
| Pre-amplifier(30M-1G) | EMtrace | RP01A | 02019 | 2023.04.07 | 2024.04.06 |
| Pre-amplifier(1-26.5G) | Agilent | 8449B | 3008A4722 | 2023.04.07 | 2024.04.06 |
| Pre-amplifier(18-40G) | com-mw | LNPA_18-40- 01 | 18050003 | 2023.04.07 | 2024.04.06 |
| Wireless | | | | | |
| Communications Test | R&S | CMW 500 | 137737 | 2023.04.13 | 2024.04.12 |
| Set | | | | | |
| Temperature & Humidity | KTJ | TA218B | N.A | 2023.04.24 | 2024.04.23 |
| Testing Software | EMC-I_V1.4.0.3_SKET | | | | |

| Conducted Test equipment | | | | | | | | |
|--|---------------------|------------|-------------------|------------|------------|--|--|--|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Until | | | |
| Signal Analyzer | Keysight | N9010B | MY60242508 | 2023.04.10 | 2024.04.09 | | | |
| Wireless Communications Test Set | R&S | CMW 500 | 137737 | 2023.04.13 | 2024.04.12 | | | |
| MXG Vector Signal Generator | Keysight | N5182B | MY59100717 | 2023.04.07 | 2024.04.06 | | | |
| Power Sensor | MW | MW100-RFCB | MW220324LG -33 | 2023.04.13 | 2024.04.12 | | | |
| Temperature & Humidity | KTJ | TA218B | N.A | 2023.04.24 | 2024.04.23 | | | |
| Temperature& Humidity test chamber | AISRY | LX-1000L | 171200018 | 2023.05.10 | 2024.05.09 | | | |
| Attenuator | eastsheep | 90db | N.A | 2023.04.10 | 2024.04.09 | | | |
| Testing Software | MTS8200_V2.0.0.0_MW | | | | | | | |

Equipment with a calibration date of "NCR" shown in this list was not used to make direct calibrated measurements.

6 TEST ITEMS 6.1 CONDUCTED OUTPUT POWER

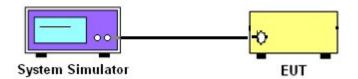
TEST OVERVIEW

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

TEST PROCEDURES

- 1. The transmitter output port was connected to the system simulator.
- 2. Set eut at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

TEST SETUP



TEST RESULT

6.2 PEAK TO AVERAGE RATIO

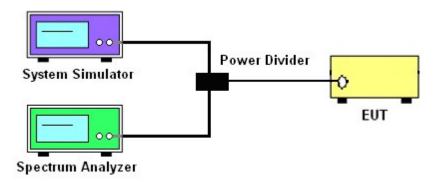
TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 v03r01 section.
- 2. The eut was connected to the peak and av system simulator& spectrum analyzer.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure average power of the spectrum analysis,

TEST SETUP



TEST RESULT

6.3 TRANSMITTER RADIATED POWER (EIRP/ERP)

TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate fragmencies.

frequencies.

TEST PROCEDURE

1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.

2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.

5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.

6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.

EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.

TEST RESULT

6.4 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

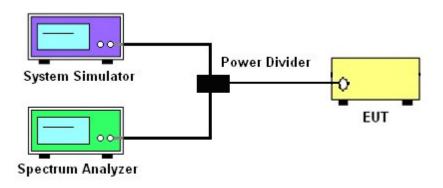
All modes of operation were investigated and the worst-case configuration results are reported in this section.

TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
- 1-5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

6.5 FREQUENCY STABILITY TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0

2. The EUT was set up in the thermal chamber and connected with the system simulator.

With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
 With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Voltage Variation

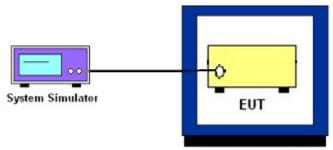
1. The testing follows FCC KDB 971168 D01 Section 9.0.

2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.

3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.

4. The variation in frequency was measured for the worst case.

TEST SETUP



Thermal Chamber

TEST RESULT Note: Test data See APPENDIX I.

6.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P) dB$.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.

2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.

3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.

4. The middle channel for the highest RF power within the transmitting frequency was measured.

5. The conducted spurious emission for the whole frequency range was taken.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

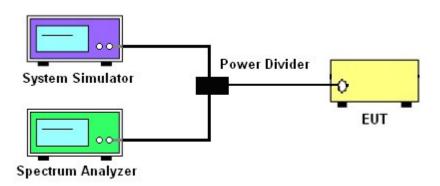
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

= -13dBm.

TEST SETUP



TEST RESULT

6.7 BAND EDGE

TEST OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7

2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.

3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.

4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.

The path loss was compensated to the results for each measurement.

5. The band edges of low and high channels for the highest RF powers were measured.

6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

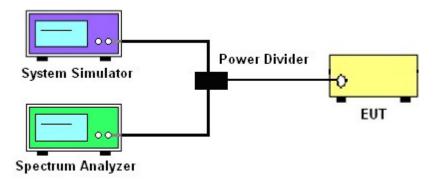
7.The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$

= -13dBm.

TEST SETUP



TEST RESULT

6.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signalsoperating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarizedhorn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

TEST PROCEDURE

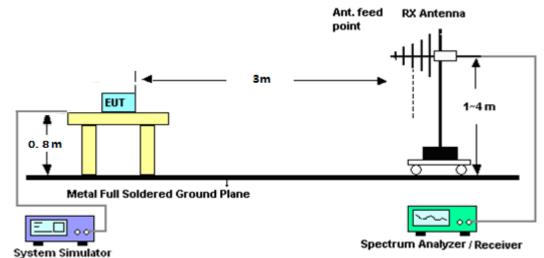
- 1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
- 2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 3. VBW ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5.No. of sweep points > 2 x span/RBW
- 6. Detector = Peak
- 7. Trace mode = max hold
- 8. The trace was allowed to stabilize
- 9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-

D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.

PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

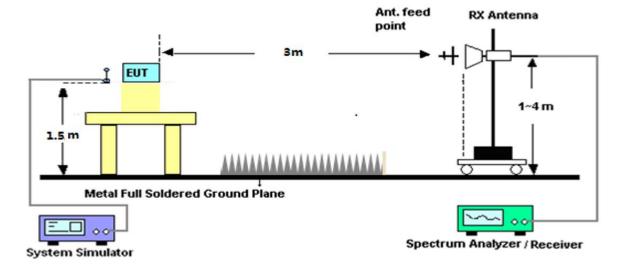
TEST SETUP

For radiated test from 30MHz to 1GHz



system sindator

For radiated test from above 1GHz



TEST RESULT

APPENDIX I-TEST RESULT

2G

Conducted output power

| Band | Channel | Frequency | Power | Gain | ERP | ERP Limit | Verdict |
|-----------------|---------|-----------|-------|-------|-------|-----------|-------------|
| | | (MHz) | (dBm) | (dB) | (dBm) | (dBm) | DAGO |
| GPRS850 1 Slot | 128 | 824.2 | 32.12 | -1.54 | 28.43 | 38.45 | PASS |
| GPRS850 1 Slot | 190 | 836.6 | 31.86 | -1.54 | 28.17 | 38.45 | PASS |
| GPRS850 1 Slot | 251 | 848.8 | 31.99 | -1.54 | 28.3 | 38.45 | PASS |
| GPRS850 2 Slot | 128 | 824.2 | 30.96 | -1.54 | 27.27 | 38.45 | PASS |
| GPRS850 2 Slot | 190 | 836.6 | 30.62 | -1.54 | 26.93 | 38.45 | PASS |
| GPRS850 2 Slot | 251 | 848.8 | 30.68 | -1.54 | 26.99 | 38.45 | PASS |
| GPRS850 3 Slot | 128 | 824.2 | 28.33 | -1.54 | 24.64 | 38.45 | PASS |
| GPRS850 3 Slot | 190 | 836.6 | 26.85 | -1.54 | 23.16 | 38.45 | PASS |
| GPRS850 3 Slot | 251 | 848.8 | 27.83 | -1.54 | 24.14 | 38.45 | PASS |
| GPRS850 4 Slot | 128 | 824.2 | 27.12 | -1.54 | 23.43 | 38.45 | PASS |
| GPRS850 4 Slot | 190 | 836.6 | 26.59 | -1.54 | 22.9 | 38.45 | PASS |
| GPRS850 4 Slot | 251 | 848.8 | 26.59 | -1.54 | 22.9 | 38.45 | PASS |
| EGPRS850 1 Slot | 128 | 824.2 | 31.08 | -1.54 | 27.39 | 38.45 | PASS |
| EGPRS850 1 Slot | 190 | 836.6 | 30.93 | -1.54 | 27.24 | 38.45 | PASS |
| EGPRS850 1 Slot | 251 | 848.8 | 31.00 | -1.54 | 27.31 | 38.45 | PASS |
| EGPRS850 2 Slot | 128 | 824.2 | 31.15 | -1.54 | 27.46 | 38.45 | PASS |
| EGPRS850 2 Slot | 190 | 836.6 | 30.77 | -1.54 | 27.08 | 38.45 | PASS |
| EGPRS850 2 Slot | 251 | 848.8 | 30.88 | -1.54 | 27.19 | 38.45 | PASS |
| EGPRS850 3 Slot | 128 | 824.2 | 30.91 | -1.54 | 27.22 | 38.45 | PASS |
| EGPRS850 3 Slot | 190 | 836.6 | 30.60 | -1.54 | 26.91 | 38.45 | PASS |
| EGPRS850 3 Slot | 251 | 848.8 | 30.56 | -1.54 | 26.87 | 38.45 | PASS |
| EGPRS850 4 Slot | 128 | 824.2 | 30.73 | -1.54 | 27.04 | 38.45 | PASS |
| EGPRS850 4 Slot | 190 | 836.6 | 30.43 | -1.54 | 26.74 | 38.45 | PASS |
| EGPRS850 4 Slot | 251 | 848.8 | 30.63 | -1.54 | 26.94 | 38.45 | PASS |

| Band | Channel | Frequency (MHz) | Power (dBm) | Gain (dB) | EIRP (dBm) | EIRP Limit (dBm) | Verdict |
|------------------|---------|--------------------|----------------|--------------|---------------|---------------------|---------|
| GPRS1900 1 Slot | 512 | 1850.2 | 28.60 | 1.66 | 30.26 | 33.01 | PASS |
| GPRS1900 1 Slot | 661 | 1880 | 28.85 | 1.66 | 30.51 | 33.01 | PASS |
| GPRS1900 1 Slot | 810 | 1909.8 | 29.15 | 1.66 | 30.81 | 33.01 | PASS |
| GPRS1900 2 Slot | 512 | 1850.2 | 27.45 | 1.66 | 29.11 | 33.01 | PASS |
| GPRS1900 2 Slot | 661 | 1880 | 27.71 | 1.66 | 29.37 | 33.01 | PASS |
| GPRS1900 2 Slot | 810 | 1909.8 | 28.03 | 1.66 | 29.69 | 33.01 | PASS |
| GPRS1900 3 Slot | 512 | 1850.2 | 25.12 | 1.66 | 26.78 | 33.01 | PASS |
| GPRS1900 3 Slot | 661 | 1880 | 25.39 | 1.66 | 27.05 | 33.01 | PASS |
| GPRS1900 3 Slot | 810 | 1909.8 | 25.81 | 1.66 | 27.47 | 33.01 | PASS |
| GPRS1900 4 Slot | 512 | 1850.2 | 24.01 | 1.66 | 25.67 | 33.01 | PASS |
| GPRS1900 4 Slot | 661 | 1880 | 24.28 | 1.66 | 25.94 | 33.01 | PASS |
| GPRS1900 4 Slot | 810 | 1909.8 | 24.64 | 1.66 | 26.30 | 33.01 | PASS |
| EGPRS1900 1 Slot | 512 | 1850.2 | 30.18 | 1.66 | 31.84 | 33.01 | PASS |
| EGPRS1900 1 Slot | 661 | 1880 | 30.06 | 1.66 | 31.72 | 33.01 | PASS |
| EGPRS1900 1 Slot | 810 | 1909.8 | 29.86 | 1.66 | 31.52 | 33.01 | PASS |
| EGPRS1900 2 Slot | 512 | 1850.2 | 29.97 | 1.66 | 31.63 | 33.01 | PASS |
| EGPRS1900 2 Slot | 661 | 1880 | 29.96 | 1.66 | 31.62 | 33.01 | PASS |
| EGPRS1900 2 Slot | 810 | 1909.8 | 29.7 | 1.66 | 31.36 | 33.01 | PASS |
| EGPRS1900 3 Slot | 512 | 1850.2 | 29.6 | 1.66 | 31.26 | 33.01 | PASS |
| EGPRS1900 3 Slot | 661 | 1880 | 29.51 | 1.66 | 31.17 | 33.01 | PASS |
| EGPRS1900 3 Slot | 810 | 1909.8 | 29.47 | 1.66 | 31.13 | 33.01 | PASS |
| EGPRS1900 4 Slot | 512 | 1850.2 | 29.38 | 1.66 | 31.04 | 33.01 | PASS |
| EGPRS1900 4 Slot | 661 | 1880 | 29.2 | 1.66 | 30.86 | 33.01 | PASS |
| EGPRS1900 4 Slot | 810 | 1909.8 | 29.07 | 1.66 | 30.73 | 33.01 | PASS |

Frequency stability

| | GPRS 850 /836.6MHz | | | | | | | | | |
|------------------|--------------------|------------|------------|--------|--------|--|--|--|--|--|
| Temperature (°C) | Voltage | Freq. Dev. | Freq. Dev. | Limit | Result | | | | | |
| Temperature (C) | (Volt) | (Hz) | (ppm) | Linin | Result | | | | | |
| 50 | | -1.48 | -0.002 | | | | | | | |
| 40 | | -1.36 | -0.002 | | | | | | | |
| 30 | | 5.56 | 0.007 | | | | | | | |
| 20 | | 5.68 | 0.007 | | | | | | | |
| 10 | Normal Voltage | 6.08 | 0.007 | 2.5ppm | | | | | | |
| 0 | Vollago | -1.37 | -0.002 | | PASS | | | | | |
| -10 | | -1.50 | -0.002 | | | | | | | |
| -20 | | 5.54 | 0.007 | | | | | | | |
| -30 | | 5.39 | 0.006 | | | | | | | |
| 20 | Maximum Voltage | -1.53 | -0.002 | | | | | | | |
| 20 | BEP | -1.55 | -0.002 | | | | | | | |

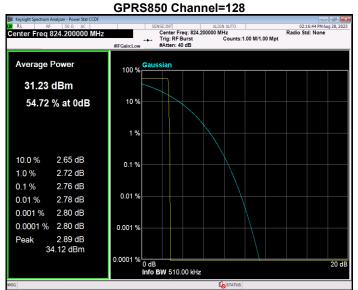
| | EGPRS 850 /836.6MHz | | | | | | | | | |
|------------------|---------------------|------------|------------|--------|--------|--|--|--|--|--|
| Temperature (°C) | Voltage | Freq. Dev. | Freq. Dev. | Limit | Result | | | | | |
| Temperature (C) | (Volt) | (Hz) | (ppm) | Linin | Result | | | | | |
| 50 | | 0.78 | 0.001 | | | | | | | |
| 40 | | -0.74 | -0.001 | | | | | | | |
| 30 | | -0.96 | -0.001 | | | | | | | |
| 20 | | -0.23 | 0.000 | | | | | | | |
| 10 | Normal Voltage | -0.74 | -0.001 | | | | | | | |
| 0 | Voltage | -0.79 | -0.001 | 2.5ppm | PASS | | | | | |
| -10 | | 0.63 | 0.001 | | | | | | | |
| -20 | | -0.58 | -0.001 | | | | | | | |
| -30 | | -0.59 | -0.001 | | | | | | | |
| 20 | Maximum Voltage | -0.96 | -0.001 | | | | | | | |
| 20 | BEP | 0.95 | 0.001 | | | | | | | |

| | GPRS 1900 / 1880MHz | | | | | | | | | |
|------------------|---------------------|------------|------------|----------------------|--------|--|--|--|--|--|
| | Voltage | Freq. Dev. | Freq. Dev. | Limit | Result | | | | | |
| Temperature (°C) | (Volt) | (Hz) | (ppm) | Liinit | Result | | | | | |
| 50 | | -2168.08 | -1.153 | | | | | | | |
| 40 | | 542.14 | 0.288 | | | | | | | |
| 30 | | -2167.91 | -1.153 | | | | | | | |
| 20 | | -2712.04 | -1.443 | | | | | | | |
| 10 | Normal Voltage | -2168.69 | -1.154 | Within Authorized | | | | | | |
| 0 | voltage | -2167.95 | -1.153 | | PASS | | | | | |
| -10 | | 541.99 | 0.288 | Band | | | | | | |
| -20 | | -2168.71 | -1.154 | | | | | | | |
| -30 | | 542.19 | 0.288 | | | | | | | |
| 20 | Maximum Voltage | 542.05 | 0.288 | | | | | | | |
| 20 | BEP | -2168.50 | -1.153 | | | | | | | |

| | EGPRS 1900 / 1880MHz | | | | | | | | | |
|------------------|----------------------|------------|------------|----------------------|--------|--|--|--|--|--|
| Temperature (°C) | Voltage | Freq. Dev. | Freq. Dev. | Limit | Result | | | | | |
| Temperature (C) | (Volt) | (Hz) | (ppm) | Linit | Result | | | | | |
| 50 | | 102.46 | 0.055 | | | | | | | |
| 40 | | -409.88 | -0.218 | | | | | | | |
| 30 | | -410.01 | -0.218 | | | | | | | |
| 20 | | -513.83 | -0.273 | | | | | | | |
| 10 | Normal Voltage | -409.29 | -0.218 | Within Authorized | | | | | | |
| 0 | Voltago | 102.49 | 0.055 | | PASS | | | | | |
| -10 | | -409.91 | -0.218 | Band | | | | | | |
| -20 | | 102.51 | 0.055 | | | | | | | |
| -30 | | -409.87 | -0.218 | | | | | | | |
| 20 | Maximum Voltage | 102.42 | 0.054 |] | | | | | | |
| 20 | BEP | 102.50 | 0.055 | | | | | | | |

Peak-to-Average Ratio

| Band | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|-----------|---------|-----------------|-------------|-----------------|---------|
| GPRS850 | 128 | 824.2 | 2.76 | 13 | PASS |
| GPRS850 | 190 | 836.6 | 2.70 | 13 | PASS |
| GPRS850 | 251 | 848.8 | 2.81 | 13 | PASS |
| EGPRS850 | 128 | 824.2 | 3.98 | 13 | PASS |
| EGPRS850 | 190 | 836.6 | 4.81 | 13 | PASS |
| EGPRS850 | 251 | 848.8 | 4.10 | 13 | PASS |
| GPRS1900 | 512 | 1850.2 | 2.84 | 13 | PASS |
| GPRS1900 | 661 | 1880 | 2.83 | 13 | PASS |
| GPRS1900 | 810 | 1909.8 | 2.83 | 13 | PASS |
| EGPRS1900 | 512 | 1850.2 | 3.74 | 13 | PASS |
| EGPRS1900 | 661 | 1880 | 3.73 | 13 | PASS |
| EGPRS1900 | 810 | 1909.8 | 3.74 | 13 | PASS |

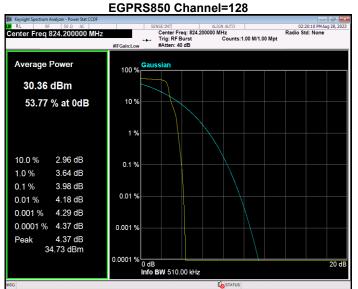


GPRS850 Channel=190



GPRS850 Channel=251



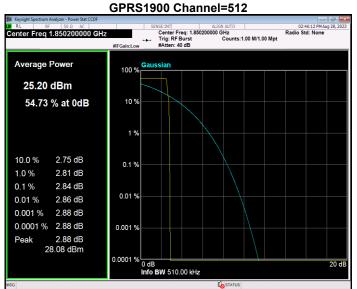


EGPRS850 Channel=190



EGPRS850 Channel=251



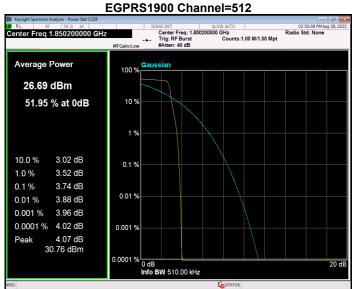


GPRS1900 Channel=661



GPRS1900 Channel=810





EGPRS1900 Channel=661

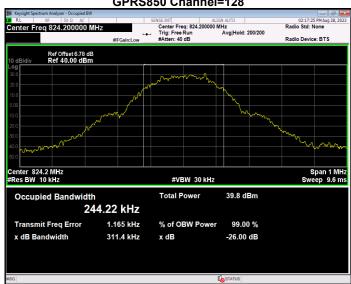


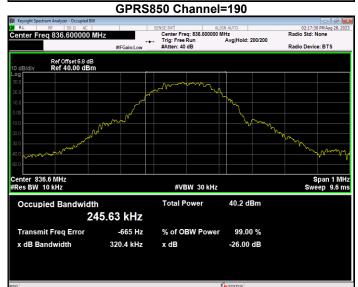
EGPRS1900 Channel=810



Occupied bandwidth

| Band | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|-----------|---------|-----------------|---------------|-----------------|---------|
| GPRS850 | 128 | 824.2 | 244.219 | 311.367 | PASS |
| GPRS850 | 190 | 836.6 | 245.630 | 320.393 | PASS |
| GPRS850 | 251 | 848.8 | 247.086 | 320.636 | PASS |
| EGPRS850 | 128 | 824.2 | 525.567 | 861.332 | PASS |
| EGPRS850 | 190 | 836.6 | 534.734 | 763.227 | PASS |
| EGPRS850 | 251 | 848.8 | 505.687 | 772.003 | PASS |
| GPRS1900 | 512 | 1850.2 | 240.359 | 303.246 | PASS |
| GPRS1900 | 661 | 1880 | 248.645 | 321.581 | PASS |
| GPRS1900 | 810 | 1909.8 | 241.938 | 314.620 | PASS |
| EGPRS1900 | 512 | 1850.2 | 411.124 | 654.449 | PASS |
| EGPRS1900 | 661 | 1880 | 404.872 | 583.425 | PASS |
| EGPRS1900 | 810 | 1909.8 | 408.928 | 605.300 | PASS |





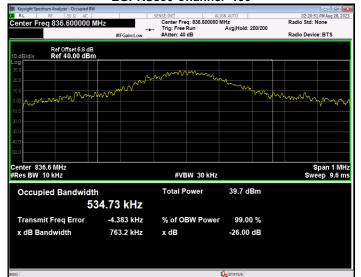
GPRS850 Channel=251

| Keysight Spectrum Analyzer - Occupied BW | | | | - 4 - |
|--|-------------|---------------------------|---|--------------------------|
| X RL RF 50 Ω AC | | SENSE:INT ALL | GN AUTO | 02:17:34 PM Aug 28, 2023 |
| Center Freq 848.800000 M | Hz | Center Freq: 848.800000 M | /Hz | Radio Std: None |
| | | - Trig: Free Run | Avg Hold: 200/200 | |
| | #IFGain:Low | #Atten: 40 dB | | Radio Device: BTS |
| Ref Offset 6.81 dB | | | | |
| 10 dB/div Ref 40.00 dBm | | | | |
| Log | | | | |
| 30.0 | | mon | | |
| 20.0 | | | | |
| 10.0 | N` | | | |
| 0.00 | \sim | | N. | |
| | - man | | L.M. | |
| 10.0 | | | - mh | |
| 20.0 | v | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 1 |
| 30.0 | | | | V~m |
| -300 | | | | monton |
| -50.0 | | | | Y |
| -30.0 | | | | |
| Center 848.8 MHz | | | | Span 1 MHz |
| #Res BW 10 kHz | | #VBW 30 kHz | | Sweep 9.6 ms |
| | | | | |
| Occupied Bandwidth | 1 | Total Power | 40.8 dBm | |
| 24 | 7.09 kHz | | | |
| 2- | | | | |
| Transmit Freq Error | 62 Hz | % of OBW Power | 99.00 % | |
| x dB Bandwidth | 320.6 kHz | x dB | -26.00 dB | |
| X ub Banuwidth | 520:0 KHZ | X UB | -20.00 dB | |
| | | | | |
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|--|-----------------------------|---|---|
| | | | - 0 |
| | SENSE:INT | ALIGN AUTO | 02:20:47 PM Aug 28, 2 |
| z | | | Radio Std: None |
| #IFGain:Low | #Atten: 40 dB | Avginola. 200/200 | Radio Device: BTS |
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| | | | Span 1 № |
| | #VBW 30 k | (Hz | Sweep 9.6 |
| | Total Power | 39.0 dBm | |
| 5 57 247 | | | |
| 0.07 KHZ | | | |
| 1.509 kHz | % of OBW Pov | wer 99.00 % | |
| | | | |
| 861.3 kHz | x dB | -26.00 dB | |
| | | | |
| | | | |
| | | | |
| | | | |
| | fz #FGainLow 5.57 kHz | tz Genter Freg: 824.200 Trig: Free Run #FGeint.ow #Atten: 40 dB #VEW 30 k Total Power 5.57 kHz 1.509 kHz % of OBW Potential % Content of the second secon | Iz Center Freq: 324.20000 MHz "#FGainLow" #Atten: 40 dB #VBW 30 kHz Total Power 39.0 dBm 5.57 kHz 1.509 kHz % of OBW Power 99.00 % |

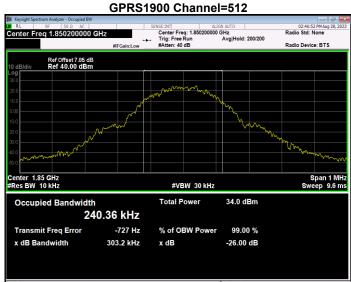
EGPRS850 Channel=128

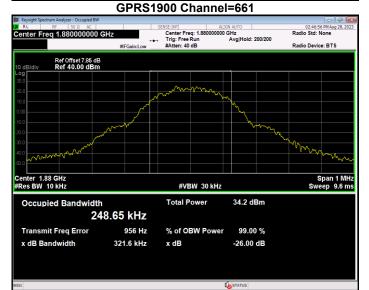
EGPRS850 Channel=190



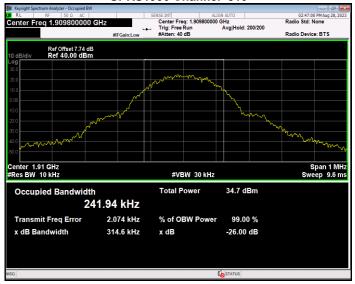
EGPRS850 Channel=251

| Keysight Spectrum Analyzer - Occupied BW | | SENSE:INT ALL | GN AUTO | 02:20:55 PM Aug 28, 202 |
|--|------------------|---------------------------|-------------------|-------------------------|
| Center Freq 848.800000 M | Hz | Center Freq: 848.800000 M | | Radio Std: None |
| | #IFGain:Low | #Atten: 40 dB | Avg Hold: 200/200 | Radio Device: BTS |
| Ref Offset 6.81 dB | | | | |
| og Ref 40.00 dBm | | | | |
| 0.0 | | m | | |
| 0.0 | | · · · | mm m | |
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| | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| enter 848.8 MHz | | | | Span 1 MH |
| Res BW 10 kHz | | #VBW 30 kHz | | Sweep 9.6 m |
| Occupied Bandwidth | 1 | Total Power | 40.1 dBm | |
| 50 |)5.69 kHz | | | |
| Transmit Freq Error | 7.167 kHz | % of OBW Power | 99.00 % | |
| x dB Bandwidth | 772.0 kHz | x dB | -26.00 dB | |
| | | | | |
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GPRS1900 Channel=810



| | LOFINO | 1900 Cham | | | | | |
|--|-------------|---|--|-----------------------|--|--|--|
| 📕 Keysight Spectrum Analyzer - Occupied BW | | | | | | | |
| RL RF 50Ω AC | | SENSE:INT | ALIGN AUTO | 02:50:47 PM Aug 28, 2 | | | |
| enter Freq 1.850200000 | GHz | Center Freq: 1.850200 Trig: Free Run | Radio Std: None | | | | |
| | #IFGain:Low | #Atten: 40 dB | Avg Hold: 200/200 | Radio Device: BTS | | | |
| Ref Offset 7.85 dB | | | | | | | |
| 0 dB/div Ref 40.00 dBm | | | | | | | |
| og | | | | | | | |
| 0.0 | | m | | | | | |
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| 0.0 | and and and | | M. M. Marrison Marris | | | | |
| 00 Mm A./MAN | New York | | - VV | mm montered | | | |
| 00 0.0 mg/mm/ma/ma/a/ | | | | - was working | | | |
| 0.0 | | | | | | | |
| 0.0 | | | | | | | |
| 1.0 | | | | | | | |
| 10 | | | | | | | |
| | | | | | | | |
| enter 1.85 GHz | | | | Span 1 N | | | |
| Res BW 10 kHz | | #VBW 30 kH | lz | Sweep 9.6 | | | |
| Occupied Bandwidth | 1 | Total Power | 35.3 dBm | | | | |
| | 1.12 kHz | | | | | | |
| | | | | | | | |
| Transmit Freq Error | 4.054 kHz | % of OBW Pow | ver 99.00 % | | | | |
| x dB Bandwidth | 654.4 kHz | x dB | -26.00 dB | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | 1 | | | | |
| G | | | | | | | |

EGPRS1900 Channel=512

02:50:51 PM Aug 28, 2023 Radio Std: None enter Freq 1.880000000 GHz Radio Device: BTS #IFGain:Lov Ref Offset 7.85 dB Ref 40.00 dBm Span 1 MHz Sweep 9.6 ms Center 1.88 GHz #Res BW 10 kHz #VBW 30 kHz Occupied Bandwidth Total Power 36.0 dBm 404.87 kHz -886 Hz % of OBW Power 99.00 % Transmit Freq Error x dB Bandwidth 583.4 kHz -26.00 dB x dB

EGPRS1900 Channel=661

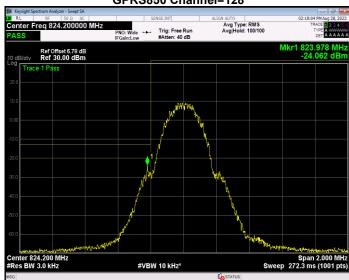
EGPRS1900 Channel=810

5

| Keysight Spectrum Analyzer - Occupied BW | | | | | | | | |
|--|-------------|--|--|---|--|--|--|--|
| RL RF 50 Ω AC Center Freq 1.909800000 | GHz | SENSE:INT ALIGN AUTO Center Freq: 1.909800000 GHz | | 02:50:55 PM Aug 28, 202: Radio Std: None | | | | |
| | #IFGain:Low | Trig: Free Run #Atten: 40 dB | Avg Hold: 200/200 | Radio Device: BTS | | | | |
| Ref Offset 7.74 dE | | | | | | | | |
| 0 dB/div Ref 40.00 dBm | | | | | | | | |
| 30.0 | | mmm | | | | | | |
| | - M | March of Ar Mark | and the second s | | | | | |
| | | | www. | | | | | |
| 100 00 mphaharman | A.C. | | - And | howwwww | | | | |
| 0.0 | | | | the way | | | | |
| 0.0 | | | | | | | | |
| 0.0 | | | | | | | | |
| 0.0 | | | | | | | | |
| enter 1.91 GHz | | | | Span 1 MH: | | | | |
| Res BW 10 kHz | | #VBW 30 kHz | | Sweep 9.6 m | | | | |
| Occupied Bandwidt | h | Total Power | 35.6 dBm | | | | | |
| 408.93 kHz | | | | | | | | |
| Transmit Freq Error | -1.871 kHz | % of OBW Powe | r 99.00 % | | | | | |
| x dB Bandwidth | 605.3 kHz | x dB | -26.00 dB | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | A.) | | | | | |
| G | | | | | | | | |

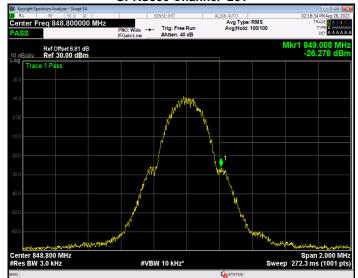
Band edge

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-----------------|------------------|-------------|---------|
| GPRS850 | 128 | 824.2 | 823.98 | -24.06 | -13 | PASS |
| GPRS850 | 251 | 848.8 | 849.01 | -26.27 | -13 | PASS |
| EGPRS850 | 128 | 824.2 | 823.98 | -37.34 | -13 | PASS |
| EGPRS850 | 251 | 848.8 | 849.00 | -32.74 | -13 | PASS |
| GPRS1900 | 512 | 1850.2 | 1849.98 | -31.72 | -13 | PASS |
| GPRS1900 | 810 | 1909.8 | 1910.02 | -31.81 | -13 | PASS |
| EGPRS1900 | 512 | 1850.2 | 1849.99 | -15.10 | -13 | PASS |
| EGPRS1900 | 810 | 1909.8 | 1910.01 | -16.55 | -13 | PASS |



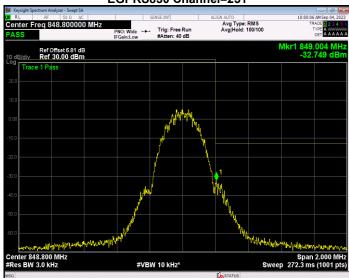
GPRS850 Channel=128

GPRS850 Channel=251



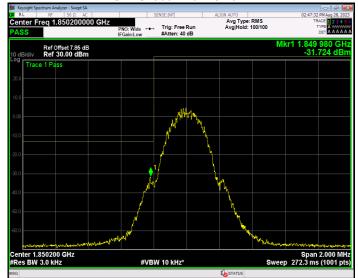
EGPRS850 Channel=128





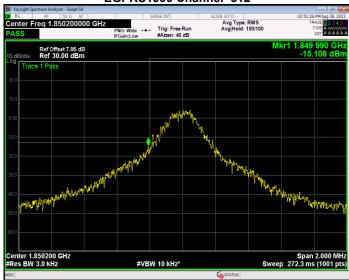
EGPRS850 Channel=251

GPRS1900 Channel=512



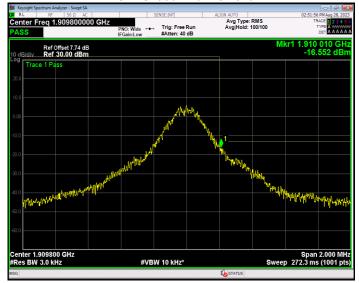
GPRS1900 Channel=810





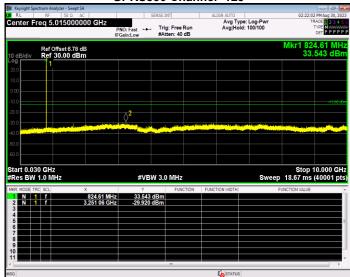
EGPRS1900 Channel=512

EGPRS1900 Channel=810



Out-of-band emissions

| Band | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-----------------|------------------|-------------|---------|
| GPRS850 | 128 | 824.2 | 3251.06 | -29.91 | -13 | PASS |
| GPRS850 | 190 | 836.6 | 7422.76 | -29.10 | -13 | PASS |
| GPRS850 | 251 | 848.8 | 3172.54 | -29.49 | -13 | PASS |
| EGPRS850 | 128 | 824.2 | 2775.74 | -29.99 | -13 | PASS |
| EGPRS850 | 190 | 836.6 | 2768.76 | -29.37 | -13 | PASS |
| EGPRS850 | 251 | 848.8 | 2660.58 | -29.14 | -13 | PASS |
| GPRS1900 | 512 | 1850.2 | 19317.03 | -22.17 | -13 | PASS |
| GPRS1900 | 661 | 1880 | 19163.26 | -22.68 | -13 | PASS |
| GPRS1900 | 810 | 1909.8 | 16558.67 | -21.93 | -13 | PASS |
| EGPRS1900 | 512 | 1850.2 | 19296.56 | -22.23 | -13 | PASS |
| EGPRS1900 | 661 | 1880 | 19966.05 | -22.41 | -13 | PASS |
| EGPRS1900 | 810 | 1909.8 | 19475.29 | -22.41 | -13 | PASS |



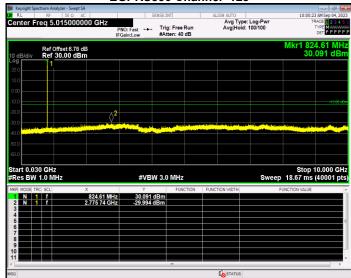
GPRS850 Channel=128

GPRS850 Channel=190

| | | nalyzer - Swept | | | | | | | | | - 0 |
|---------------------|--------------|--------------------------|----------------------------|---|------------------|-------------------------|-------|------------|-----------|------------------|---------------------------------------|
| RL enter F | RF rea 5 | | AC 000 GHz | | SENSE:IN | | AL | | : Log-Pwr | Т | 8 PM Aug 30, 2 RACE 1 2 3 4 |
| GHEOT T | | | | PNO: Fast + FGain:Low | | : Free Run en: 40 dB | | Avg Hold | 100/100 | | DET P P P |
| 0 dB/div | Ref (Ref | Offset 6.8 d 30.00 dE | iB Sm | | | | | | | Mkr1 83 33 | 7.07 M .481 dE |
| og | 1 | | | | | | | | | | |
| 0.0 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | -13.00 |
| | | | | | | | | | | | -13.00 |
| 1.0 | | | | | | | | | | | |
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| 1.0 | | | | | | | | | | | |
| 1.0 | | | | | | | | | | | |
| | | | | | | | | | | | |
| tart 0.03 Res BW | | | | #V | 'BW 3.0 | MHz | | | Sweep | Stop 18.67 ms | 10.000 G (40001 p |
| (R MODE TR | | | х | Y | | FUNCTION | FUNCT | TION WIDTH | F | UNCTION VALUE | |
| 1 N 1 2 N 1 | f | | 837.07 MHz 7.422 76 GHz | 33.4 | 81 dBm 01 dBm | | | | | | |
| 3 | | | | | UT GOM | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | + | | | | | | + | | | | |
| 8 | | | | | | | | | | | |
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| 0 | | | | | | | | | | | |
| 9 | | | | | | m | | | | | |

GPRS850 Channel=251

| | | | | | - 0 |
|--------------------------------------|---------------------------------|--------------------------|-----------|--|--|
| SENSE:1 | NT | | Lon-Pwr | | PM Aug 30, 20 |
| | | | | 1 | |
| | | | | Mkr1 849 34.0 | 9.53 MH 648 dBi |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | -13.00 d |
| \Diamond^2 | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| #VBW 3.0 | MHz | | Sweep | Stop 1 18.67 ms (| 0.000 GH |
| | | | | | |
| Y | FUNCTION | FUNCTION WIDTH | | JNCTION VALUE | |
| Y Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WIDTH | | | |
| Y Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WIDTH | | | |
| Y Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WIDTH | | | |
| Y Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WDTH | | | |
| Y Hz 34,648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WDTH | | | |
| Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WIDTH | | | |
| Y Hz 34.648 dBm Hz -29.494 dBm | FUNCTION | FUNCTION WIDTH | | | |
| | PNC Fast Triff IFGainLow #At | IFGaintLow #Atten: 40 dB | PND: fuel | PNC: Fast Trig: Free Run IFGain:Low #Atten: 40 dB Avg Hold: 100/100 | PND: Fast Trig: Free Run Avg Type: Log-Pwr Trig: Free Run JFGain: Low #Atten: 40 dB Mkr1 845 34.0 34.0 |



EGPRS850 Channel=128

EGPRS850 Channel=190

| | | lyzer - Swept S | | | | | | | | | - 0 |
|-------------|---|-------------------------|----------------------------|--------------------------|------------------|-------------------------|--------|------------|--|-------------------|----------------------------------|
| RL | RF | | | | SENSE:IN | Т | A | LIGN AUTO | e: Log-Pwr | 10:00:3 | 38 AM Sep 04, 2 TRACE 1 2 3 4 |
| Center F | req 5.0 | J150000 | | PNO: Fast + FGain:Low | | : Free Run en: 40 dB | | Avg Hold | : 100/100 | , | |
| 10 dB/div | | fset 6.8 di 10.00 dB | | | | | | | | Mkr1 83 28 | 7.07 Mi .023 dB |
| .og 20.0 | 1 | | | | | | | | | | |
| 10.0 | | | | | | | | | | | |
| 1.00 | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | |
| 0.0 | - | | (2 | | | | | | | | |
| 0.0 | e a la l | and the state | | | den selat | Marine | | | Anise de la companya | | |
| 0.0 | | , | | | | | | | | | |
| 0.0 | | | | | | | | | | | |
| tart 0.03 | | | | | | | | | | 01 | 10.000 G |
| Res BW | | z | | #\ | /BW 3.0 | MHz | | | Swee | ыор р 18.67 ms | (40001 p |
| KR MODE TR | | | х | Y | | FUNCTION | I FUNC | TION WIDTH | | FUNCTION VALUE | |
| 2 N 1 | f f | | 837.07 MHz 2.768 76 GHz | | 23 dBm 78 dBm | | | | | | |
| 3 4 | | | | | | | | | | | |
| 5 6 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| | | | | | | | | | | | |

EGPRS850 Channel=251

| | | nalyzer - Swep | | | | | | | | | | | - 0 |
|---------------------|-------------------------|-------------------------|---------------------------------|-------------------------|------------------------|-----------------------|-------|----------|-------|------------------------|-----|------------------|---|
| enter F | _R ⊧ req 5 | 50 Ω .015000 | | PNO: Fast IFGain:Low | | g: Free l tten: 40 | | | | : Log-Pwr : 100/100 | | Т | AM Sep 04, 2 RACE 123 TYPE MUTTO DET P P P |
|) dB/div | | Offset 6.81 30.00 dl | | | | | | | | | | Mkr1 84 31 | 9.28 M .917 dE |
| 0.0 | | | | | | | | | | | | | |
| .00 | | | | | | | | | | | | | |
| 0.0 | | | ×2 | | | | | | | | | | -13.00 |
| | - 1 Martin | | | | | فالعن | | | | | | | |
| 3.0 | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | |
| tart 0.03 Res BW | | | | # | VBW 3.0 | 0 MHz | | | | Sw | eep | Stop 18.67 ms | 10.000 G (40001 p |
| KR MODE TF | RC SCL | | × 849.28 MHz 2.660 58 GHz | | 7 917 dBm 44 dBm | | CTION | FUNCTION | WIDTH | | FL | INCTION VALUE | |
| 3 | | | 2.000 00 011 | | | | | | | | | | |
| 6 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | - | -K21900 | Chan | nei=512 | | | _ |
|----------------------|---|---------------------------|------------------------|-----------------------------|-------|---------------------------------------|--------|
| Keysight Spectrum An | alyzer - Swept SA 50 Ω AC | SENSE:INT | | ALIGN AUTO | | 02:30:21 PM Au | 0 |
| | 0.015000000 GHz | l0:Fast → Trig: | Free Run n: 40 dB | Aug Type: L Avg Hold: 10 | | U2:30:21 PMAL TRACE TYPE DET | 1227 |
| | Offset 7.85 dB 30.00 dBm | | | | | Mkr1 1.850 8 28.312 | G d |
| 20.0 | | | | | | | |
| 10.0 | | | | | | | |
| 1.00 | | | | | | | |
| 10.0 | | | | | | | |
| 20.0 | | | | | | | 0 |
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| | and the state of the | | A Children in c | | | | |
| 40.0 | | | | | | | |
| 50.0 | | | | | | | |
| 60.0 | | | | | | | |
| Start 0.030 GHz | | | | | | Stop 20.00 | 00 G |
| Res BW 1.0 M | Hz | #VBW 3.0 N | ∕IHz | | Sweep | 50.67 ms (400 | |
| IKR MODE TRC SCL | Х | Y | FUNCTION | FUNCTION WIDTH | FL | UNCTION VALUE | |
| 1 N 1 f | 1.850 8 GHz 19.317 0 GHz | 28.312 dBm -22.171 dBm | | | | | |
| 3 | | -22.17 - 60 | | | | | |
| 4 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| e 📄 | | | | | | | |
| SG | | | | STATUS | | | |

GPRS1900 Channel=512

GPRS1900 Channel=661

| RL | RE | zer - Swept SA 50 Ω AC | | | SENSE: | | | ALTO | N AUTO | | | 02.2 | 0:43 PM Aug 30 |
|---|---------------------|---------------------------|---------------------------------|----------------------|-----------------------|-------------------------|------|---------|---------|--------------------------|-----------|---------|---------------------------------------|
| | | 0150000 | P | NO: Fast Gain:Low | | g: Free R tten: 40 d | | | Avg Typ | be: Log-Pv d: 100/100 | | 02.5 | TRACE 1 2 3 TYPE MUSE DET P P P |
| 0 dB/div | | set 7.85 dB).00 dBm | | | | | | | | | | | .880 2 G 9.116 d |
| 20.0 | 1 | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | |
| 1.00 | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | -434 |
| 20.0 | | | | | | | | | | | ما مامد . | | A Designed |
| 1.000 | | and the second | | | and the second second | an di seta | | | | Princip | | | |
| 0.0 | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| i0.0 | 00.011- | | | | | | | | | | | | - 00 000 |
| 0.0 tart 0.03 | 30 GHz (1.0 MH; | 2 | | # | VBW 3.0 |) MHz | | | | s | weep | | p 20.000 ns (40001 |
| tart 0.0 Res BW | V 1.0 MH |) | | | Y | FUNC | TION | FUNCTIO | N WDTH | S | | | ns (40001 |
| tart 0.0: Res BW | / 1.0 MH |) | (1.880 2 GHz 9.163 3 GHz | 29. | | FUNC | TION | FUNCTIC | N WIDTH | S | | 50.67 m | ns (40001 |
| tart 0.0 Res BW | V 1.0 MH |) | 1.880 2 GHz | 29. | ⊻ 116 dBm | FUNC | TION | FUNCTIO | N WDTH | S | | 50.67 m | ns (40001 |
| tart 0.0: Res BW Res BW R MODE T 1 N 2 N 3 4 5 5 6 | V 1.0 MH |) | 1.880 2 GHz | 29. | ⊻ 116 dBm | FUNC | TION | FUNCTIO | N WDTH | Ś | | 50.67 m | ns (40001 |
| tart 0.0: Res BW KR MODE T 1 N 2 N 3 4 5 6 7 7 8 | V 1.0 MH |) | 1.880 2 GHz | 29. | ⊻ 116 dBm | FUNC | TION | FUNCTIO | N WDTH | s | | 50.67 m | ns (40001 |
| tart 0.03 Res BW KR MODE T 1 N 2 N 3 4 4 5 5 6 6 7 7 8 8 9 9 | V 1.0 MH |) | 1.880 2 GHz | 29. | ⊻ 116 dBm | FUNC | TION | FUNCTIO | N WDTH | S | | 50.67 m | ns (40001 |
| KR MODE T 1 N 2 N 3 4 5 6 7 8 | V 1.0 MH |) | 1.880 2 GHz | 29. | ⊻ 116 dBm | FUNC | TION | FUNCTIO | N WDTH | s | | 50.67 m | ns (40001 |

GPRS1900 Channel=810

| | ectrum Analyzer - S | | | | | | | Ø |
|--|--|-----------------|-----------------|-----------------------|----------------|-------------------------|------------------------------|--------------|
| RL | RF 50 | Ω AC 000000 GHz | SENSE:1 | NT | ALIGN AUTO | e: Log-Pwr | 02:31:07 PM Au TRACE | |
| enter F | req 10.015 | P | | g:FreeRun ten:40dB | Avg Hold | | TYPE M | PPP |
| | | | Gain:Low WA | ten. 40 dB | | | Mkr1 1.910 2 | G |
|) dB/div | Ref Offset 7 Ref 30.00 | | | | | | 28.839 | dE |
| | 1 | | | | | | | |
| 0.0 | | | | | | | | |
| | | | | | | | | |
| 0.0 | | | | | | | <u>2</u> | |
| 0.0 | | | | | | | | , and |
| 1.0 | and the second sec | No. | | and a distant | | telesco de la constante | | |
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| 0.0 | | | | | | | | |
| | | | | | | | | |
| tart 0.03 | 30 GHz 1.0 MHz | | #VBW 3.0 |) MHz | | Sweep | Stop 20.00 50.67 ms (400 | 0 G 01 p |
| tart 0.03 Res BW | 1.0 MHz | x | Y | MHz FUNCTION | FUNCTION WIDTH | | Stop 20.00 50.67 ms (4000 | 0 G 01 p |
| tart 0.03 Res BW | 1.0 MHz RC SCL | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| tart 0.03 Res BW R MODE TR 1 N 1 2 N 1 3 | 1.0 MHz | | Y | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| R MODE TH | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| tart 0.03 Res BW RR MODE TR N 1 2 N 1 3 4 5 6 | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| KR MODE TF 1 N 1 2 N 1 3 4 5 6 6 7 8 | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| tart 0.03 Res BW RR MODE TR 1 N 1 2 N 1 3 4 5 5 6 6 7 7 8 9 | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| tart 0.03 Res BW KR MODE TF 1 N 1 2 N 1 3 4 5 5 6 6 | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | FUNCTION | FUNCTION WIDTH | | 50.67 ms (400 | 0 G 01 p |
| Tart 0.03 Res BW R MODE TH N 1 2 N 1 3 4 4 5 5 6 6 6 7 7 8 8 | 1.0 MHz | 1.910 2 GHz | Y 28.839 dBm | | FUNCTION WIDTH | | 50.67 ms (400 | 0 GI 01 p |

| RL | ctrum Analyzer - S RF 50 | Ω AC | | SENSE:INT | - | ALI | IGN AUTO | | 11:09: | 12 AM Sep 05. |
|----------------------|-----------------------------|-----------------------------|------------------------|----------------------|------------------|-------|-----------------------|--|------------------|----------------------|
| enter Fr | eq 10.015 | | NO: Fast 🔸 Gain:Low | . Trig: F #Atten: | ree Run 40 dB | | Avg Type Avg Hold: | : Log-Pwr 100/100 | | TYPE M |
| 0 dB/div | Ref Offset Ref 30.00 | | | | | | | | Mkr1 1.3 30 | 350 8 G .460 dE |
| .og 20.0 | 1 | | | | | | | | | |
| 10.0 | | | | | | | | | | |
| 0.00 | | | | | | | | | | |
| 10.0 | | | | | | | | | | -13.00 |
| 20.0 | | | | | | | | | | \diamond |
| 30.0 | | | | | | | | and the second | al the second | A service of the |
| 40.0 | | | | | | - | Alter and a | | | |
| 50.0 | | | | | | | | | | |
| 60.0 | | | | | | | | | | |
| | | | | | | | | | | |
| Start 0.03 Res BW | | | #VE | W 3.0 M | Hz | | | Sweep | Stop 50.67 ms | 20.000 G (40001 p |
| KR MODE TR | | х | Y | | FUNCTION | FUNCT | ION WIDTH | F | UNCTION VALUE | |
| 1 N 1 2 N 1 | | 1.850 8 GHz 19.296 6 GHz | 30.460 | | | | | | | |
| 3 | | 10.2000 0112 | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 8 | | | | | | | | | | |
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| 10 | | | | | | | | | | |

EGPRS1900 Channel=512

EGPRS1900 Channel=661

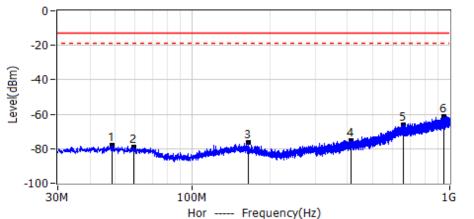
| enter F | RF 50 | Ω AC 5000000 GHz | SENSE: | | ALIGN AUTO Avg Type | : Log-Pwr | | 34 AM Sep 05, 2 RACE 1 2 3 4 |
|---|-------------------------|----------------------------------|------------------------------|----------------------------|------------------------|-----------------------|---------------------|---------------------------------|
| | | PI | | g: Free Run tten: 40 dB | Avg Hold | : 100/100 | | DET P P P |
|) dB/div | Ref Offset Ref 30.00 | | | | | | Mkr1 1.8 | 80 7 GI .716 dB |
| | Rei 30.00 | ивш | | | | | | |
| 0.0 | | | | | | | | |
| 0.0 | | | | | | | | |
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| 0.0 0.0 tart 0.03 | | | | | | | Stop | 20.000 G |
| tart 0.03 | 30 GHz 1.0 MHz | | #VBW 3.0 | 0 MHz | | Swee | Stop 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW | RC SCL | X 4 000 7 011-1 | Y | FUNCTION | FUNCTION WDTH | | Stop p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW | 1.0 MHz | × 1.880 7 GHz 19.966 1 GHz | | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW R MODE TI 1 N 1 2 N 1 | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW RR MODE TH 2 N 1 3 4 5 6 6 | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW KR MODE TH 1 N 2 2 N 1 3 4 5 5 6 6 7 7 8 | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW R MODE TI 1 N 2 2 N 2 3 4 4 5 5 6 6 7 7 8 8 9 9 | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |
| tart 0.03 Res BW | RC SCL | 1.880 7 GHz | ۲ 29.716 dBm | FUNCTION | FUNCTION WIDTH | | p 50.67 ms | 20.000 G (40001 p |

EGPRS1900 Channel=810

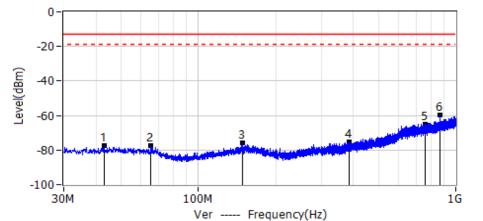
| RL | ectrum Ar RF | nalyzer - Swept S | SA AC | | | | | |
|--|-------------------|-------------------------|----------------------------------|-----------------|-------------------------------|------------------------------------|------------------------|--|
| | | | 0000 GHz | | rig: Free Run Atten: 40 dB | ALIGN AUTO Avg Type Avg Hold | : Log-Pwr : 100/100 | 11:09:57 AM Sep 05, 2 TRACE 1 2 3 4 TYPE MY |
| 0 dB/div | | Offset 7.74 30.00 dB | | | | | | Mkr1 1.910 2 GI 29.793 dB |
| og 20.0 | | 1 | | | | | | |
| 10.0 | | | | | | | | |
| | | | | | | | | |
| 0.0 | | | | | | | | -13.00 |
| 20.0 | | | | | | | | a de la companya de la |
| 0.0 | | | - | | and of the line | | | |
| 0.0 | | | | | | | | |
| ia.o | | | | | | | | |
| ~~~ | | | | | | | | |
| tart 0.03 | | | | #VBW 3 | .0 MHz | | Sweep | Stop 20.000 G 50.67 ms (40001 p |
| tart 0.03 Res BW | 1.0 I¥ RC SCL | | X | Y | FUNCTION | FUNCTION WIDTH | | Stop 20.000 G 50.67 ms (40001 p |
| tart 0.03 Res BW | 1.0 Ⅳ RC SCL | | x 1.910 2 GHz 19.475 3 GHz | | FUNCTION | FUNCTION WIDTH | | 50.67 ms (40001 p |
| tart 0.03 Res BW KR MODE TF 1 N 1 2 N 1 3 4 5 5 6 6 | 1.0 Ⅳ RC SCL | | 1.910 2 GHz | ۲ 29.793 dBn | FUNCTION | FUNCTION WIDTH | | 50.67 ms (40001 p |
| tart 0.03 Res BW IN 1 1 2 N 1 3 4 5 6 6 7 8 8 9 9 | 1.0 Ⅳ RC SCL | | 1.910 2 GHz | ۲ 29.793 dBn | FUNCTION | FUNCTION WIDTH | | 50.67 ms (40001 p |
| tart 0.03 Res BW KR MODE TF 1 N 1 2 N 1 3 4 4 5 6 6 7 8 9 | 1.0 Ⅳ RC SCL | | 1.910 2 GHz | ۲ 29.793 dBn | FUNCTION | | | Stop 20.000 G 50.67 ms (40001 p UNCTION VALUE |

RADIATED SPURIOUS EMISSION

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|--------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-30 |
| Test Mode: GSM 850 Lower | - · |
| Note: | |

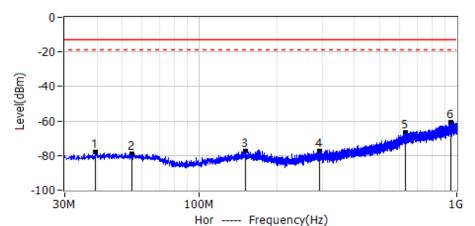


| No. | Frequency | Level | Limit | Margin | Detector | Polar |
|------|-------------|--------|--------|--------|----------|--------|
| 140. | Пециенсу | dBm | dBm | dB | Detector | i olai |
| 1* | 48.5513MHz | -78.00 | -13.00 | -65.00 | PK | Hor |
| 2* | 59.3425MHz | -79.25 | -13.00 | -66.25 | PK | Hor |
| 3* | 165.3150MHz | -76.35 | -13.00 | -63.35 | PK | Hor |
| 4* | 412.5438MHz | -75.05 | -13.00 | -62.05 | PK | Hor |
| 5* | 659.5300MHz | -65.95 | -13.00 | -52.95 | PK | Hor |
| 6* | 946.4075MHz | -61.15 | -13.00 | -48.15 | PK | Hor |

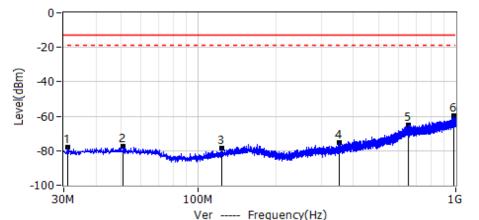


| No. | Frequency | Level | Limit | Margin | Detector | Polar |
|------|-------------|--------|--------|--------|----------|-------|
| INO. | Frequency | dBm | dBm | dB | Delector | FUIdi |
| 1* | 42.9738MHz | -77.67 | -13.00 | -64.67 | PK | Ver |
| 2* | 65.5263MHz | -77.66 | -13.00 | -64.66 | PK | Ver |
| 3* | 148.3400MHz | -75.80 | -13.00 | -62.80 | PK | Ver |
| 4* | 386.2325MHz | -75.21 | -13.00 | -62.21 | PK | Ver |
| 5* | 762.8350MHz | -64.91 | -13.00 | -51.91 | PK | Ver |
| 6* | 870.0200MHz | -59.57 | -13.00 | -46.57 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|---------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-30 |
| Test Mode: GSM 850 Middle | |
| Note: | |

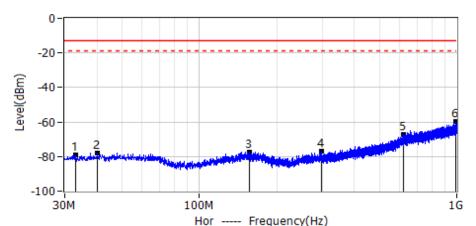


| | | 1101 | ricquein | -)(112) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 39.3363MHz | -78.13 | -13.00 | -65.13 | PK | Hor |
| 2* | 54.6138MHz | -79.23 | -13.00 | -66.23 | PK | Hor |
| 3* | 150.6438MHz | -77.47 | -13.00 | -64.47 | PK | Hor |
| 4* | 293.1125MHz | -77.45 | -13.00 | -64.45 | PK | Hor |
| 5* | 632.6125MHz | -66.93 | -13.00 | -53.93 | PK | Hor |
| 6* | 950.5300MHz | -60.99 | -13.00 | -47.99 | PK | Hor |

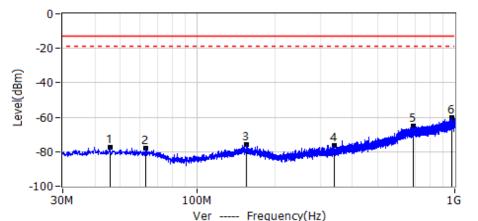


| | | * G1 | ricquein | 2)(112) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 31.2125MHz | -78.19 | -13.00 | -65.19 | PK | Ver |
| 2* | 51.0975MHz | -77.18 | -13.00 | -64.18 | PK | Ver |
| 3* | 122.8775MHz | -78.51 | -13.00 | -65.51 | PK | Ver |
| 4* | 353.8588MHz | -75.53 | -13.00 | -62.53 | PK | Ver |
| 5* | 653.3463MHz | -65.22 | -13.00 | -52.22 | PK | Ver |
| 6* | 984.7225MHz | -59.90 | -13.00 | -46.90 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|--------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-30 |
| Test Mode: GSM 850 Upper | |
| Note: | |

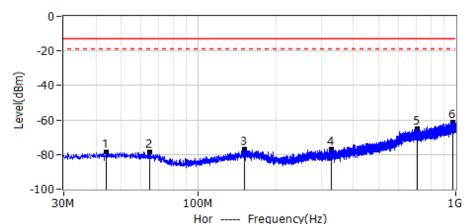


| | | 1101 | Flequein | - (112) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 33.1525MHz | -78.97 | -13.00 | -65.97 | PK | Hor |
| 2* | 40.1850MHz | -77.85 | -13.00 | -64.85 | PK | Hor |
| 3* | 156.4638MHz | -77.28 | -13.00 | -64.28 | PK | Hor |
| 4* | 296.9925MHz | -76.84 | -13.00 | -63.84 | PK | Hor |
| 5* | 618.6688MHz | -67.43 | -13.00 | -54.43 | PK | Hor |
| 6* | 994.7863MHz | -59.88 | -13.00 | -46.88 | PK | Hor |

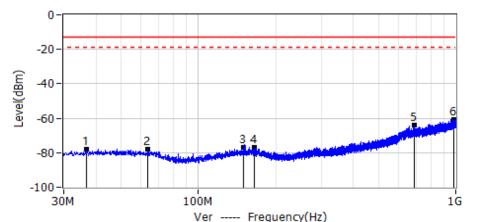


| | | | ricquein | -)() | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 45.6413MHz | -77.16 | -13.00 | -64.16 | PK | Ver |
| 2* | 62.8588MHz | -78.21 | -13.00 | -65.21 | PK | Ver |
| 3* | 155.7363MHz | -76.07 | -13.00 | -63.07 | PK | Ver |
| 4* | 341.2488MHz | -76.10 | -13.00 | -63.10 | PK | Ver |
| 5* | 688.7513MHz | -65.22 | -13.00 | -52.22 | PK | Ver |
| 6* | 969.6875MHz | -60.26 | -13.00 | -47.26 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|---------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-30 |
| Test Mode: GSM 1900 Lower | |
| Note: | |

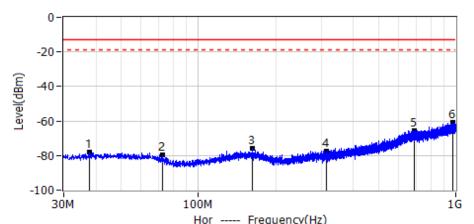


| | | 1101 | Hequein | - (112) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 43.9438MHz | -78.66 | -13.00 | -65.66 | PK | Hor |
| 2* | 64.9200MHz | -78.60 | -13.00 | -65.60 | PK | Hor |
| 3* | 151.0075MHz | -76.62 | -13.00 | -63.62 | PK | Hor |
| 4* | 327.6688MHz | -76.78 | -13.00 | -63.78 | PK | Hor |
| 5* | 709.6063MHz | -65.27 | -13.00 | -52.27 | PK | Hor |
| 6* | 970.0513MHz | -61.27 | -13.00 | -48.27 | PK | Hor |

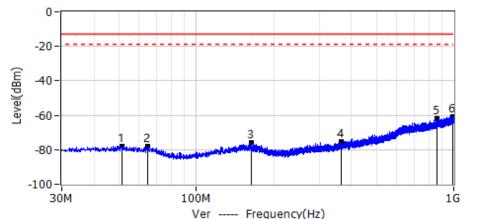


| | | | riequein | -)() | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 36.7900MHz | -77.75 | -13.00 | -64.75 | PK | Ver |
| 2* | 63.4650MHz | -78.10 | -13.00 | -65.10 | PK | Ver |
| 3* | 150.2800MHz | -77.12 | -13.00 | -64.12 | PK | Ver |
| 4* | 165.0725MHz | -76.69 | -13.00 | -63.69 | PK | Ver |
| 5* | 689.2363MHz | -64.17 | -13.00 | -51.17 | PK | Ver |
| 6* | 982.6613MHz | -60.55 | -13.00 | -47.55 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|----------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-30 |
| Test Mode: GSM 1900 Middle | |
| Note: | |

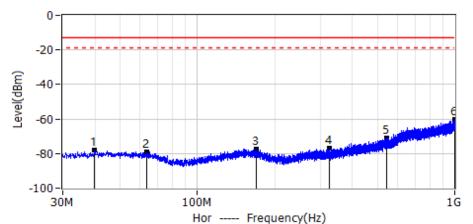


| | | HUI | Frequent | Ly(HZ) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 37.8813MHz | -78.22 | -13.00 | -65.22 | PK | Hor |
| 2* | 72.4375MHz | -79.50 | -13.00 | -66.50 | PK | Hor |
| 3* | 162.0413MHz | -75.65 | -13.00 | -62.65 | PK | Hor |
| 4* | 313.9675MHz | -77.19 | -13.00 | -64.19 | PK | Hor |
| 5* | 690.2063MHz | -65.37 | -13.00 | -52.37 | PK | Hor |
| 6* | 974.7800MHz | -61.01 | -13.00 | -48.01 | PK | Hor |

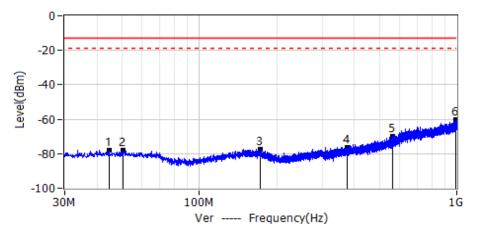


| | | | riequein | -)() | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 51.3400MHz | -77.98 | -13.00 | -64.98 | PK | Ver |
| 2* | 64.9200MHz | -77.77 | -13.00 | -64.77 | PK | Ver |
| 3* | 164.2238MHz | -75.98 | -13.00 | -62.98 | PK | Ver |
| 4* | 364.2863MHz | -75.50 | -13.00 | -62.50 | PK | Ver |
| 5* | 861.1688MHz | -61.70 | -13.00 | -48.70 | PK | Ver |
| 6* | 991.2700MHz | -60.51 | -13.00 | -47.51 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma | |
|---------------------------|-----------------------------|--|
| EUT: Tablet | Temperature: 28°C | |
| M/N: VORTEX BTAB10 | Humidity: 44%RH | |
| Test Voltage: Battery | Test Data: 2023-08-30 | |
| Test Mode: GSM 1900 Upper | | |
| Note: | | |

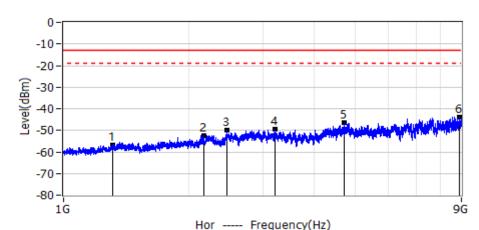


| | | 1101 | ricquein | 2)(112) | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 39.9425MHz | -78.12 | -13.00 | -65.12 | PK | Hor |
| 2* | 63.3438MHz | -79.14 | -13.00 | -66.14 | PK | Hor |
| 3* | 168.8313MHz | -77.55 | -13.00 | -64.55 | PK | Hor |
| 4* | 324.8800MHz | -76.81 | -13.00 | -63.81 | PK | Hor |
| 5* | 543.8575MHz | -70.95 | -13.00 | -57.95 | PK | Hor |
| 6* | 998.1813MHz | -60.28 | -13.00 | -47.28 | PK | Hor |

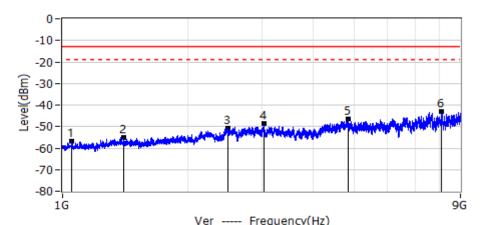


| | | | quein | | | |
|-----|-------------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 44.6713MHz | -77.78 | -13.00 | -64.78 | PK | Ver |
| 2* | 50.3700MHz | -78.21 | -13.00 | -65.21 | PK | Ver |
| 3* | 173.0750MHz | -77.27 | -13.00 | -64.27 | PK | Ver |
| 4* | 374.2288MHz | -76.18 | -13.00 | -63.18 | PK | Ver |
| 5* | 563.9850MHz | -70.10 | -13.00 | -57.10 | PK | Ver |
| 6* | 994.3013MHz | -60.20 | -13.00 | -47.20 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|--------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-28 |
| Test Mode: GSM 850 Lower | |
| Note: | |

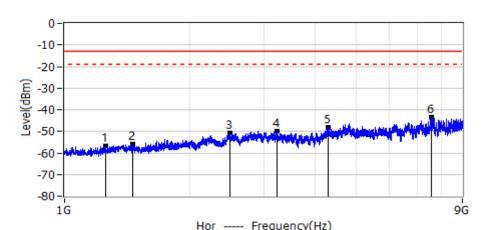


| | | 1101 | riequenc | 7(112) | | |
|-----|-----------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 1.3100GHz | -56.69 | -13.00 | -43.69 | PK | Hor |
| 2* | 2.1670GHz | -52.41 | -13.00 | -39.41 | PK | Hor |
| 3* | 2.4680GHz | -50.03 | -13.00 | -37.03 | PK | Hor |
| 4* | 3.2230GHz | -49.29 | -13.00 | -36.29 | PK | Hor |
| 5* | 4.7090GHz | -46.26 | -13.00 | -33.26 | PK | Hor |
| 6* | 8.9080GHz | -43.66 | -13.00 | -30.66 | PK | Hor |

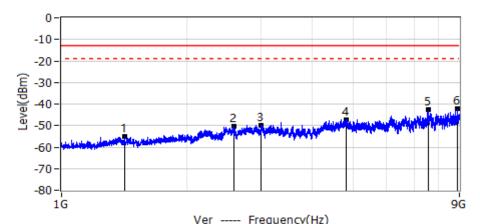


| | | V CI - | Frequenc | y(112) | | |
|-----|-----------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 1.0510GHz | -56.84 | -13.00 | -43.84 | PK | Ver |
| 2* | 1.4030GHz | -55.18 | -13.00 | -42.18 | PK | Ver |
| 3* | 2.4970GHz | -50.59 | -13.00 | -37.59 | PK | Ver |
| 4* | 3.0370GHz | -48.48 | -13.00 | -35.48 | PK | Ver |
| 5* | 4.8360GHz | -46.50 | -13.00 | -33.50 | PK | Ver |
| 6* | 8.1220GHz | -43.21 | -13.00 | -30.21 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|---------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-28 |
| Test Mode: GSM 850 Middle | |
| Note: | |

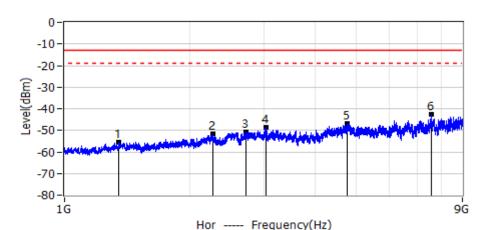


| | | HUI - | Flequello | y(nz) | | |
|-----|-----------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 1.2560GHz | -56.69 | -13.00 | -43.69 | PK | Hor |
| 2* | 1.4580GHz | -55.91 | -13.00 | -42.91 | PK | Hor |
| 3* | 2.4930GHz | -50.73 | -13.00 | -37.73 | PK | Hor |
| 4* | 3.2250GHz | -50.00 | -13.00 | -37.00 | PK | Hor |
| 5* | 4.2940GHz | -48.05 | -13.00 | -35.05 | PK | Hor |
| 6* | 7.5790GHz | -43.48 | -13.00 | -30.48 | PK | Hor |

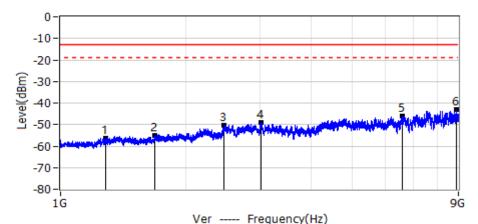


| | | VCI | riequenc | y(112) | | |
|-----|-----------|--------------|--------------|--------------|----------|-------|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar |
| 1* | 1.4200GHz | -55.08 | -13.00 | -42.08 | PK | Ver |
| 2* | 2.5960GHz | -50.34 | -13.00 | -37.34 | PK | Ver |
| 3* | 3.0100GHz | -49.73 | -13.00 | -36.73 | PK | Ver |
| 4* | 4.8040GHz | -47.21 | -13.00 | -34.21 | PK | Ver |
| 5* | 7.5680GHz | -42.74 | -13.00 | -29.74 | PK | Ver |
| 6* | 8.9120GHz | -42.09 | -13.00 | -29.09 | PK | Ver |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|--------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-28 |
| Test Mode: GSM 850 Upper | |
| Note: | |

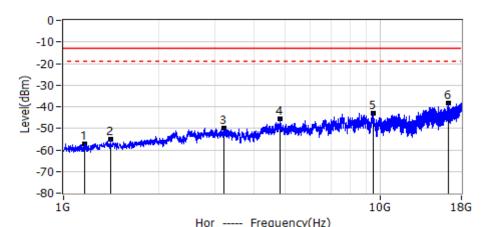


| Hol Flequency(Hz) | | | | | | | |
|-------------------|-----------|--------------|--------------|--------------|----------|-------|--|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar | |
| 1* | 1.3520GHz | -55.31 | -13.00 | -42.31 | PK | Hor | |
| 2* | 2.2630GHz | -51.64 | -13.00 | -38.64 | PK | Hor | |
| 3* | 2.7240GHz | -50.78 | -13.00 | -37.78 | PK | Hor | |
| 4* | 3.0340GHz | -48.81 | -13.00 | -35.81 | PK | Hor | |
| 5* | 4.7530GHz | -46.80 | -13.00 | -33.80 | PK | Hor | |
| 6* | 7.5690GHz | -42.39 | -13.00 | -29.39 | PK | Hor | |

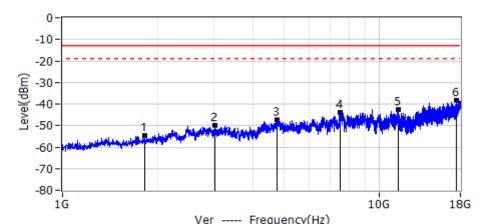


| Ver Frequency(nz) | | | | | | | |
|-------------------|-----------|--------------|--------------|--------------|----------|-------|--|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar | |
| 1* | 1.2810GHz | -56.28 | -13.00 | -43.28 | PK | Ver | |
| 2* | 1.6830GHz | -55.14 | -13.00 | -42.14 | PK | Ver | |
| 3* | 2.4600GHz | -50.24 | -13.00 | -37.24 | PK | Ver | |
| 4* | 3.0330GHz | -48.91 | -13.00 | -35.91 | PK | Ver | |
| 5* | 6.6100GHz | -46.12 | -13.00 | -33.12 | PK | Ver | |
| 6* | 8.8960GHz | -42.92 | -13.00 | -29.92 | PK | Ver | |

| Project: LGT23H049 | Test Engineer: Xiangdong Ma |
|---------------------------|-----------------------------|
| EUT: Tablet | Temperature: 28°C |
| M/N: VORTEX BTAB10 | Humidity: 44%RH |
| Test Voltage: Battery | Test Data: 2023-08-28 |
| Test Mode: GSM 1900 Lower | |
| Note: | |



| Hor Frequency(Hz) | | | | | | | |
|-------------------|------------|--------------|--------------|--------------|----------|-------|--|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar | |
| 1* | 1.1615GHz | -57.23 | -13.00 | -44.23 | PK | Hor | |
| 2* | 1.4101GHz | -54.86 | -13.00 | -41.86 | PK | Hor | |
| 3* | 3.2121GHz | -49.68 | -13.00 | -36.68 | PK | Hor | |
| 4* | 4.8356GHz | -45.56 | -13.00 | -32.56 | PK | Hor | |
| 5* | 9.4660GHz | -42.80 | -13.00 | -29.80 | PK | Hor | |
| 6* | 16.4062GHz | -38.34 | -13.00 | -25.34 | PK | Hor | |



| Ver frequency(fiz) | | | | | | | |
|--------------------|------------|--------------|--------------|--------------|----------|-------|--|
| No. | Frequency | Level dBm | Limit dBm | Margin dB | Detector | Polar | |
| 1* | 1.8224GHz | -54.47 | -13.00 | -41.47 | PK | Ver | |
| 2* | 3.0315GHz | -50.07 | -13.00 | -37.07 | PK | Ver | |
| 3* | 4.7506GHz | -47.40 | -13.00 | -34.40 | PK | Ver | |
| 4* | 7.5386GHz | -43.87 | -13.00 | -30.87 | PK | Ver | |
| 5* | 11.4635GHz | -42.62 | -13.00 | -29.62 | PK | Ver | |
| 6* | 17.5176GHz | -38.22 | -13.00 | -25.22 | PK | Ver | |