

TEST REPORT

Application No.: SHCR2208001794CO
FCC ID: 2A826RTK-EG25G
Applicant: Vivax-Metrotech (Shanghai) Ltd.
Address of Applicant: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Manufacturer: Vivax-Metrotech (Shanghai) Ltd.
Address of Manufacturer: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Factory: Vivax-Metrotech (Shanghai) Ltd.
Address of Factory: 3/F No.90, Lane 1122 Qinzhou Rd.(N), Shanghai, China
Equipment Under Test (EUT):
EUT Name: Pipe and Cable Locator
Model No.: vLoc3 RTK-Pro
Standard(s) : 47 CFR Part 2
47 CFR Part 22 subpart H
47 CFR Part 24 subpart E
Date of Receipt: 2022-08-24
Date of Test: 2022-10-01 to 2022-11-28
Date of Issue: 2022-12-02

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.

Parlan Zhan

Parlan Zhan
Laboratory Manager



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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2022-12-02 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|--|---------------------------|--|
| Authorized for issue by: | | | |
| | | Bill Wu | |
| | | Bill Wu /Project Engineer | |
| | | Parlam zhan | |
| | | Parlam Zhan /Reviewer | |



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2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|--|---------------------------------|--|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913, §24.232 | ERP≤7W(GSM850) EIRP≤2W(GSM1900) | PASS |
| Peak-Average Ratio | §24.232 | ≤13dB | PASS |
| Modulation Characteristics | §2.1047 | Digital modulation | PASS |
| Bandwidth | §2.1049(h) | OBW: No limit EBW: No limit | PASS |
| Band Edge Compliance | §2.1051, §22.917, §24.238 | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | PASS |
| Spurious emissions at antenna terminals | §2.1051, §22.917, §24.238 | ≤ -13dBm | PASS |
| Radiated spurious emissions | §2.1051, §22.917, §24.238 | ≤ -13dBm | PASS |
| Frequency stability | §2.1055, §22.355, §24.235 | ≤ ±2.5ppm. | PASS |



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------------------|--|
| Power supply: | DC 7.2V 6700mAh rechargeable battery Charging adapter: Model:GM36-084200-2 Input:100-240V~50/60Hz Output:8.4V 2A |
| Test voltage: | DC 7.2V |
| Serial Number: | 22601181026 |
| Firmware version: | 1.41 Release |
| Sample Type: | Portable production |
| Support Network: | GPRS, EGPRS |
| Operation Frequency Band: | GSM850/GSM1900 |
| Modulation Type: | GMSK for GPRS/EGPRS 8PSK for EGPRS |
| GPRS Class: | 12 |
| EGPRS Class: | 12 |
| Antenna Type: | FPC Antenna |
| Antenna Gain: | GSM850: 0.4dBi (Provided by the manufacturer) GSM1900: 2.3dBi (Provided by the manufacturer) |
| Extreme temp. Tolerance: | -30°C to +50°C |
| Extreme vol. Limits: | 6.12V DC to 8.28V DC (nominal: 7.2V DC) |
| IMEI: | 861861041244024 |



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4.2 Test Frequency

| Test mode: | TX / RX | RF Channel | | |
|------------|---------|-------------|-------------|-------------|
| | | Low (L) | Middle (M) | High (H) |
| GSM850 | TX | Channel 128 | Channel 190 | Channel 251 |
| | | 824.2MHz | 836.6 MHz | 848.8 MHz |
| | RX | Channel 128 | Channel 190 | Channel 251 |
| | | 869.2 MHz | 881.6 MHz | 893.8 MHz |
| Test mode: | TX / RX | RF Channel | | |
| | | Low (L) | Middle (M) | High (H) |
| GSM1900 | TX | Channel 512 | Channel 661 | Channel 810 |
| | | 1850.2MHz | 1880.0 MHz | 1909.8 MHz |
| | RX | Channel 512 | Channel 661 | Channel 810 |
| | | 1930.2 MHz | 1960.0 MHz | 1989.8 MHz |

4.3 Test Environment

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|-------|
| Relative Humidity | 48% | |
| Atmospheric Pressure: | 101kPa | |
| Temperature: | TN | 25 °C |
| Voltage: | VL | 6.12V |
| | VN | 7.20V |
| | VH | 8.28V |

NOTE: VL= lower extreme test voltage
VN= nominal voltage
VH= upper extreme test voltage
TN= normal temperature

4.4 Description of Support Units

The EUT has been tested as an independent unit.



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4.5 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty cycle | 0.4% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF conducted power | 0.6dB |
| 6 | RF power density | 2.9dB |
| 7 | Conducted Spurious emissions | 0.75dB |
| 8 | RF Radiated power | 5.2dB (Below 1GHz) |
| | | 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious emission test | 4.2dB (Below 30MHz) |
| | | 4.5dB (30MHz-1GHz) |
| | | 5.1dB (1GHz-6GHz) |
| | | 5.4dB (6GHz-18GHz) |
| 10 | Temperature test | 1°C |
| 11 | Humidity test | 3% |
| 12 | Supply voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.6 Test Location

All tests were performed at:

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No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

4.7 Test Facility

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

• **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory
Company Number: 8617A

• **VCCI (Member No.: 3061)**

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4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------|--------------|-------------------------------|-----------------------|------------|--------------|
| RF Conducted Test | | | | | |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | Keysight | N9020B | SHEM241-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | Agilent | N9020A | SHEM181-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | R&S | SMR20 | SHEM006-1 | 2022-08-02 | 2023-08-01 |
| Signal Generator | Agilent | N5182A | SHEM182-1 | 2022-08-02 | 2023-08-01 |
| Communication Tester | R&S | CMW270 | SHEM183-1 | 2022-07-25 | 2023-07-24 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Power Sensor | Keysight | U2021XA * 4 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Splitter | Anritsu | MA1612A | SHEM185-1 | / | / |
| Coupler | e-meca | 803-S-1 | SHEM186-1 | / | / |
| High-low Temp Cabinet | Suzhou Zhihe | TL-40 | SHEM087-1 | 2020-04-15 | 2023-04-14 |
| AC Power Stabilizer | APC | KDF-31020T-V0-F0 | SHEM216-1 | 2021-12-20 | 2022-12-19 |
| DC Power Supply | MCH | MCH-303A | SHEM210-1 | 2021-12-20 | 2022-12-19 |
| Conducted test Cable | / | RF01~RF04 | / | 2021-12-20 | 2022-12-19 |
| Switcher | Tonscend | JS0806 | SHEM184-1 | 2022-08-02 | 2023-08-01 |
| Test software | Tonscend | JS Tonscend BT/WIFI System | Version: 2.6 | / | / |
| Coaxial Cable | TST | | SHEM263-1 | 2022-08-02 | 2023-08-01 |
| Test software | TST | TST PASS | Version: 2.0 | / | / |
| RF Radiated Test | | | | | |
| EMI test Receiver | R&S | ESU40 | SHEM051-1 | 2021-12-20 | 2022-12-19 |
| Spectrum Analyzer | R&S | FSP-30 | SHEM002-1 | 2021-12-20 | 2022-12-19 |
| Communication Tester | R&S | CMW500 | SHEM268-1 | 2022-07-25 | 2023-07-24 |
| Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519 | SHEM135-1 | 2021-12-20 | 2022-12-19 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM048-1 | 2021-09-11 | 2023-09-10 |
| Antenna (25MHz-2GHz) | Schwarzbeck | VULB9168 | SHEM202-1 | 2021-05-07 | 2023-05-06 |
| Horn Antenna (1-18GHz) | Schwarzbeck | HF906 | SHEM009-1 | 2022/8/11 | 2024-08-10 |
| Horn Antenna (1-18GHz) | Schwarzbeck | BBHA9120D | SHEM050-1 | 2021-09-18 | 2023-09-17 |
| Horn Antenna (14-40GHz) | Schwarzbeck | BBHA 9170 | SHEM049-1 | 2021-09-18 | 2023-09-17 |
| Pre-Amplifier | HP | 8447D | SHEM236-1 | 2022-08-02 | 2023-08-01 |
| High-amplifier (14-40GHz) | Schwarzbeck | 10001 | SHEM049-2 | 2021-12-20 | 2022-12-19 |
| Band Filter | LORCH | 9BRX-875/X150 | SHEM156-1 | / | / |
| Band Filter | LORCH | 13BRX-1950/X500 | SHEM083-2 | / | / |
| Band Filter | LORCH | 5BRX-2400/X200 | SHEM155-1 | / | / |
| Band Filter | LORCH | 5BRX-5500/X1000 | SHEM157-2 | / | / |
| High pass Filter | Wainwright | WHK3.0/18G | SHEM157-1 | / | / |
| High pass Filter | Wainwright | WHKS1700 | SHEM157-3 | / | / |
| Semi/Fully Anechoic | ST | 11*6*6M | SHEM078-2 | 2020-05-25 | 2023-05-24 |
| RE test Cable | / | RE01, RE02, RE06 | / | 2022-01-07 | 2023-01-06 |
| Test software | ESE | E3 | Version: 6.111221a | / | / |



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6 Radio Spectrum Matter Test Results

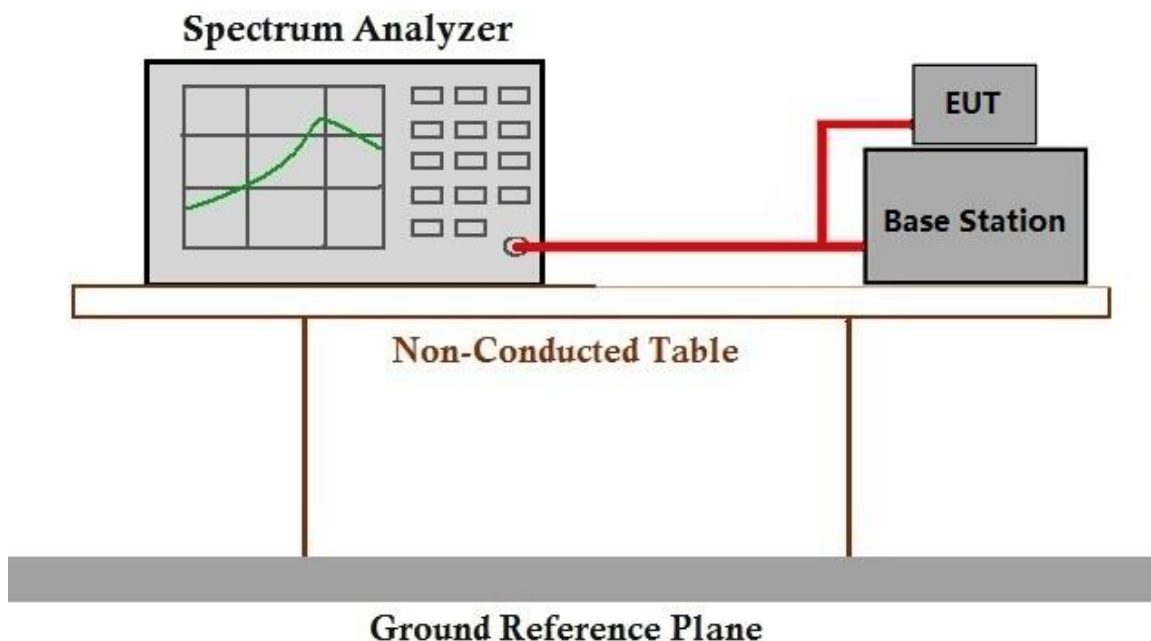
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $ERP \leq 7W(GSM850); EIRP \leq 2W(GSM1900)$

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please Refer to Appendix for Details



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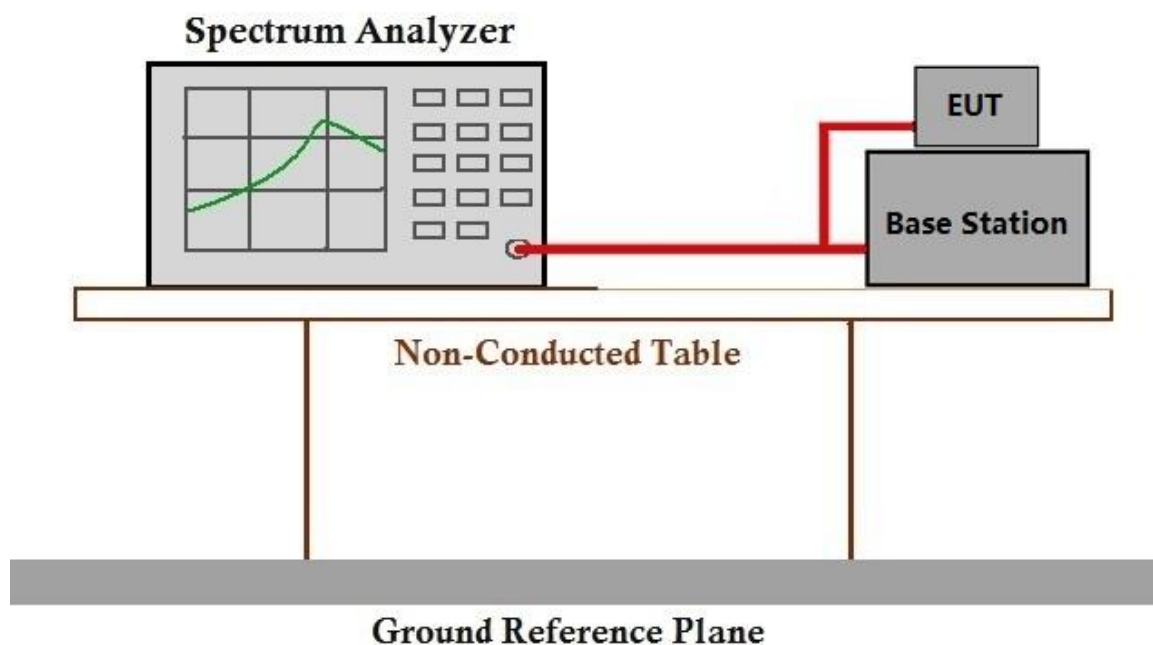
6.2 Peak-Average Ratio

Test Requirement: §24.232
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please Refer to Appendix for Details



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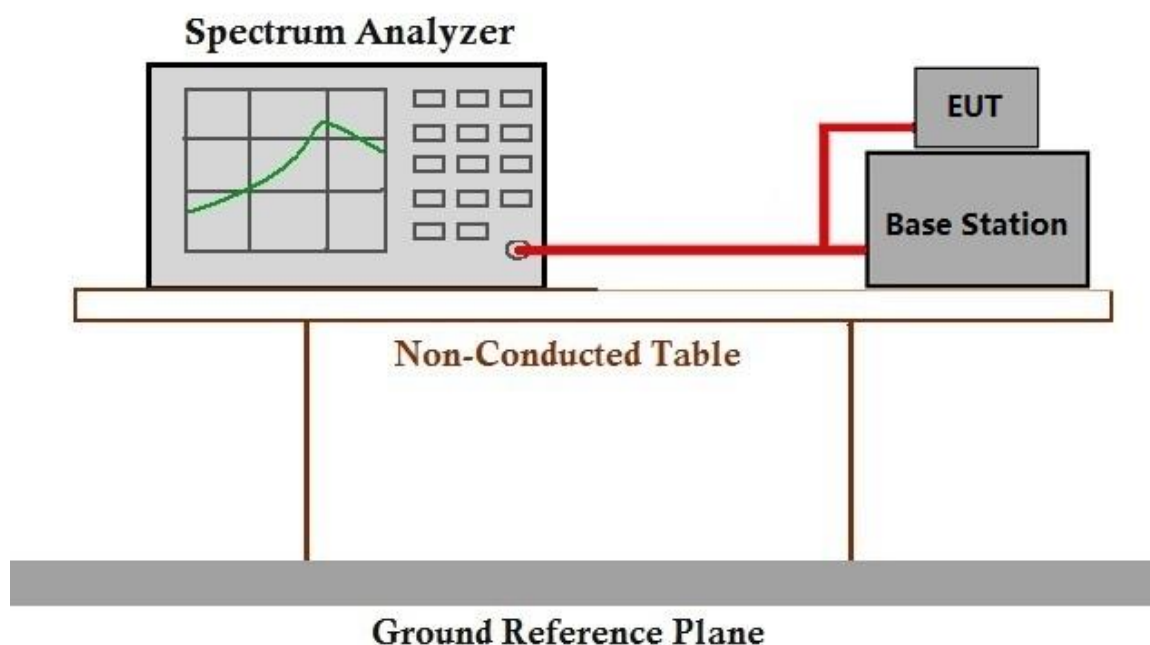
6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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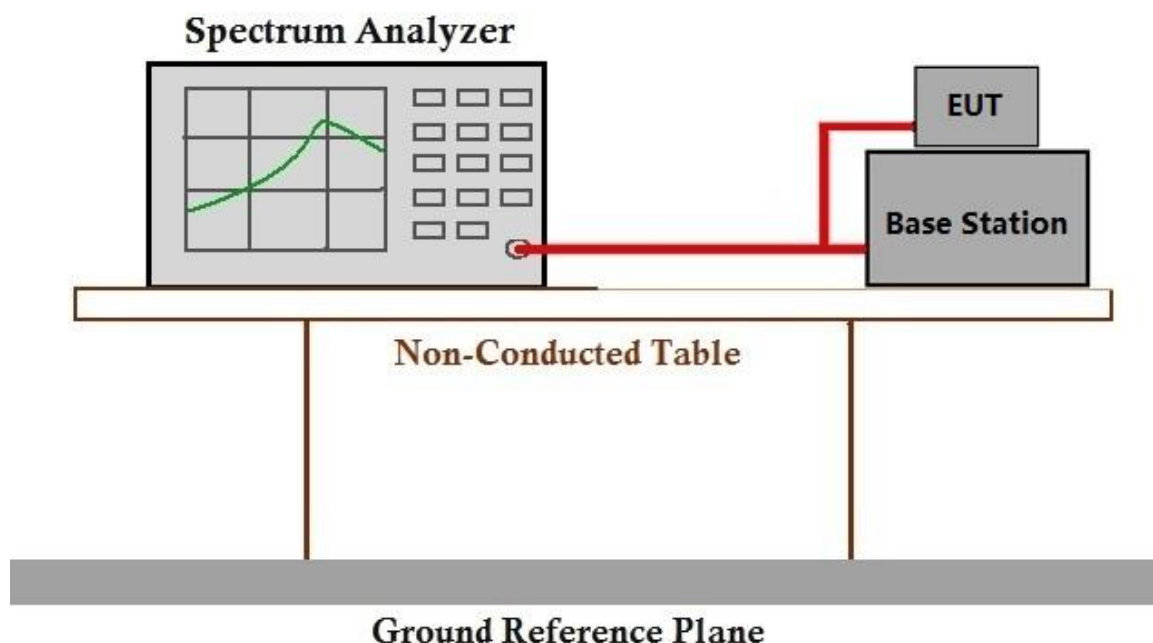
6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please Refer to Appendix for Details



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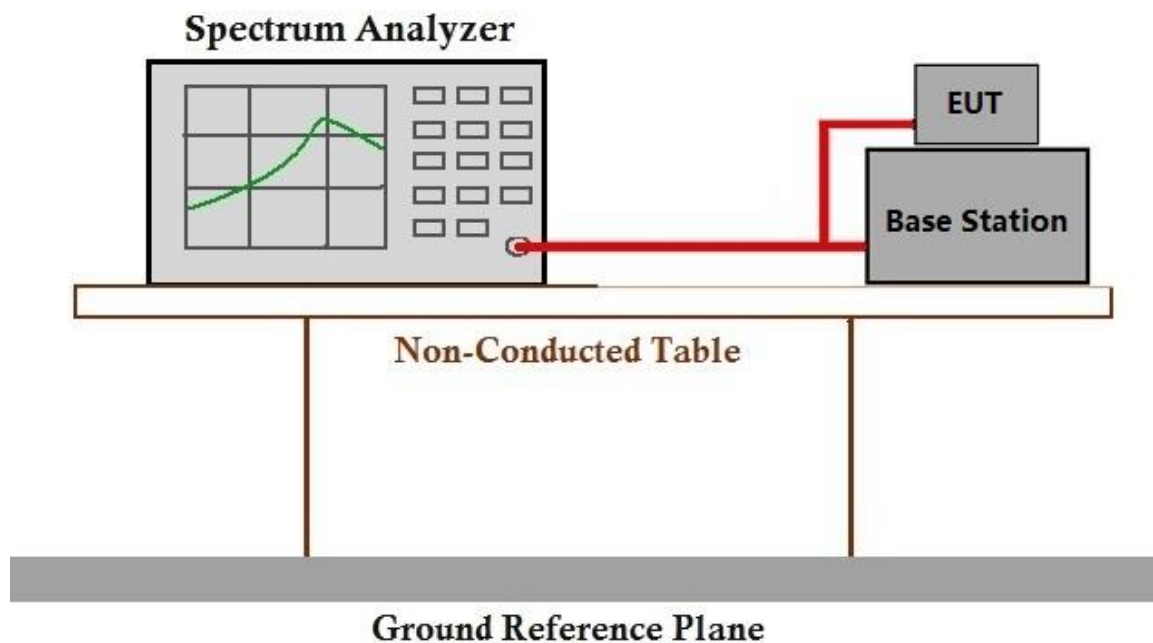
6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}$

6.5.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

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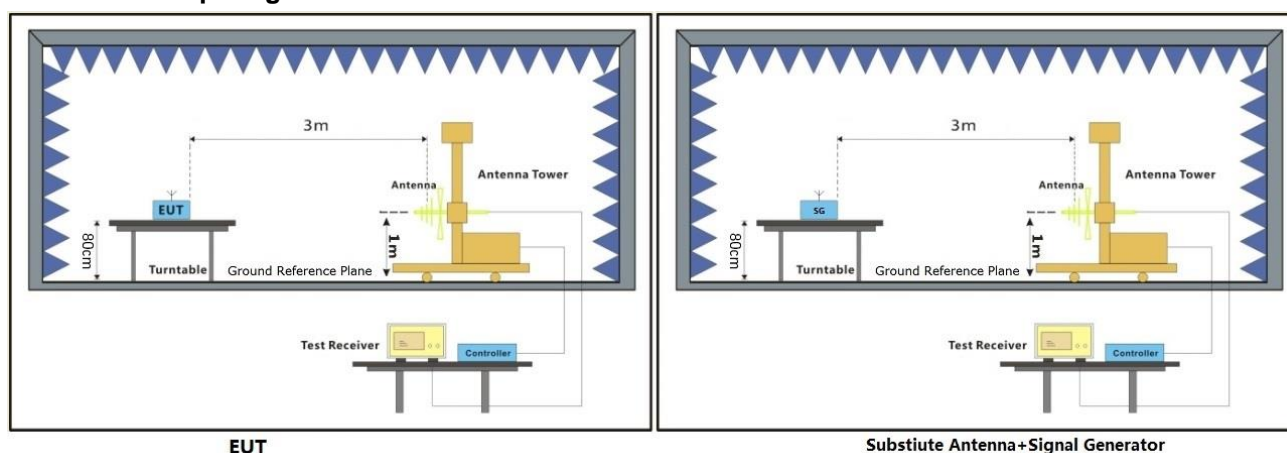
6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238,
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq -13\text{dBm}$

6.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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| GSM850-Low channel | | | | |
|--------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1648.400 | -52.33 | -13 | -39.33 | Horizontal |
| 2472.600 | -60.65 | -13 | -47.65 | Horizontal |
| 3296.800 | -53.29 | -13 | -40.29 | Horizontal |
| 1648.400 | -52.81 | -13 | -39.81 | Vertical |
| 2472.600 | -59.16 | -13 | -46.16 | Vertical |
| 3296.800 | -56.34 | -13 | -43.34 | Vertical |

| GSM850-Middle channel | | | | |
|-----------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1672.800 | -59.77 | -13 | -46.77 | Horizontal |
| 2509.200 | -58.69 | -13 | -45.69 | Horizontal |
| 3345.600 | -56.58 | -13 | -43.58 | Horizontal |
| 1672.800 | -54.27 | -13 | -41.27 | Vertical |
| 2509.200 | -57.97 | -13 | -44.97 | Vertical |
| 3345.600 | -55.57 | -13 | -42.57 | Vertical |

| GSM850-High channel | | | | |
|---------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 1697.600 | -54.89 | -13 | -41.89 | Horizontal |
| 2546.400 | -62.97 | -13 | -49.97 | Horizontal |
| 3395.200 | -54.44 | -13 | -41.44 | Horizontal |
| 1697.600 | -54.99 | -13 | -41.99 | Vertical |
| 2546.400 | -58.10 | -13 | -45.10 | Vertical |
| 3395.200 | -53.52 | -13 | -40.52 | Vertical |



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| GSM1900-Low channel | | | | |
|---------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3700.400 | -45.39 | -13 | -32.39 | Horizontal |
| 5550.600 | -47.65 | -13 | -34.65 | Horizontal |
| 7400.800 | -45.92 | -13 | -32.92 | Horizontal |
| 3700.400 | -52.38 | -13 | -39.38 | Vertical |
| 5550.600 | -49.25 | -13 | -36.25 | Vertical |
| 7400.800 | -47.72 | -13 | -34.72 | Vertical |

| GSM1900-Middle channel | | | | |
|------------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3760.000 | -42.13 | -13 | -29.13 | Horizontal |
| 5640.000 | -51.17 | -13 | -38.17 | Horizontal |
| 7520.000 | -47.43 | -13 | -34.43 | Horizontal |
| 3760.000 | -43.50 | -13 | -30.50 | Vertical |
| 5640.000 | -51.63 | -13 | -38.63 | Vertical |
| 7520.000 | -45.21 | -13 | -32.21 | Vertical |

| GSM1900-High channel | | | | |
|----------------------|----------------|----------------|--------------------|--------------|
| Frequency (MHz) | Level (dBm) | Limit (dBm) | Over Limit (dB) | Polarization |
| 3819.600 | -48.37 | -13 | -35.37 | Horizontal |
| 5729.400 | -47.57 | -13 | -34.57 | Horizontal |
| 7639.200 | -42.02 | -13 | -29.02 | Horizontal |
| 3819.600 | -48.24 | -13 | -35.24 | Vertical |
| 5729.400 | -53.19 | -13 | -40.19 | Vertical |
| 7639.200 | -40.27 | -13 | -27.27 | Vertical |

Remark:

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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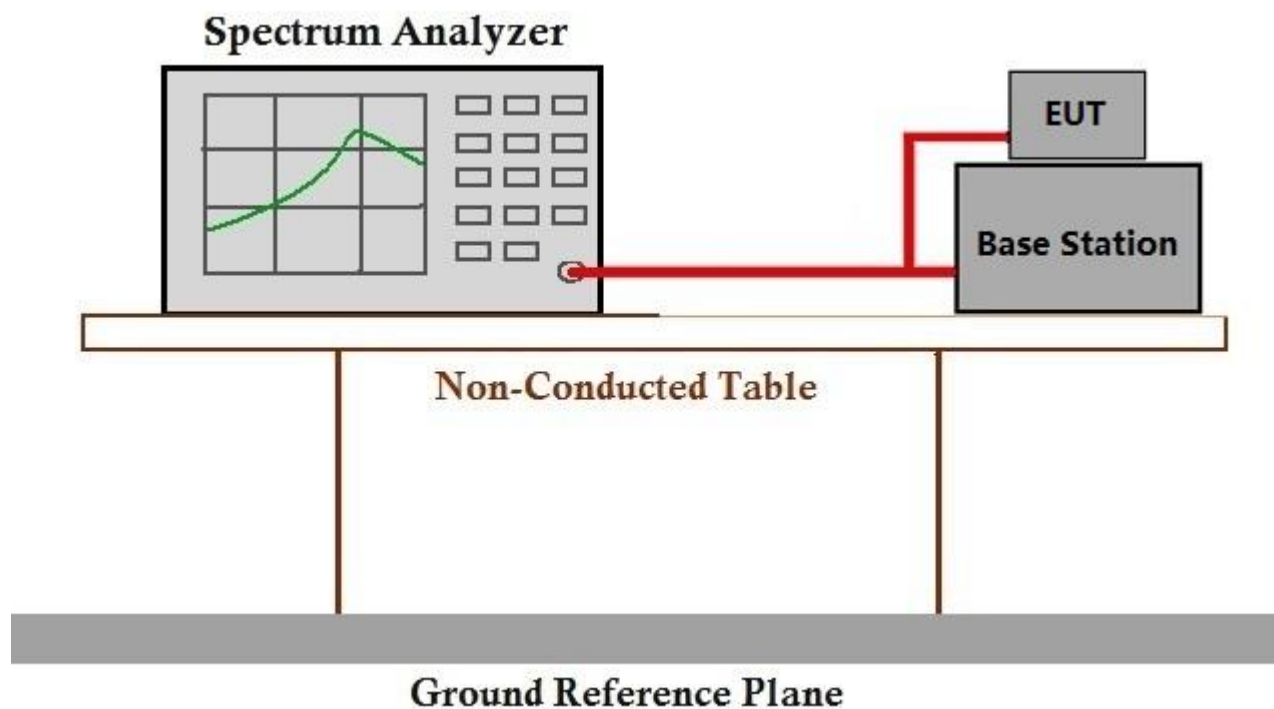
6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

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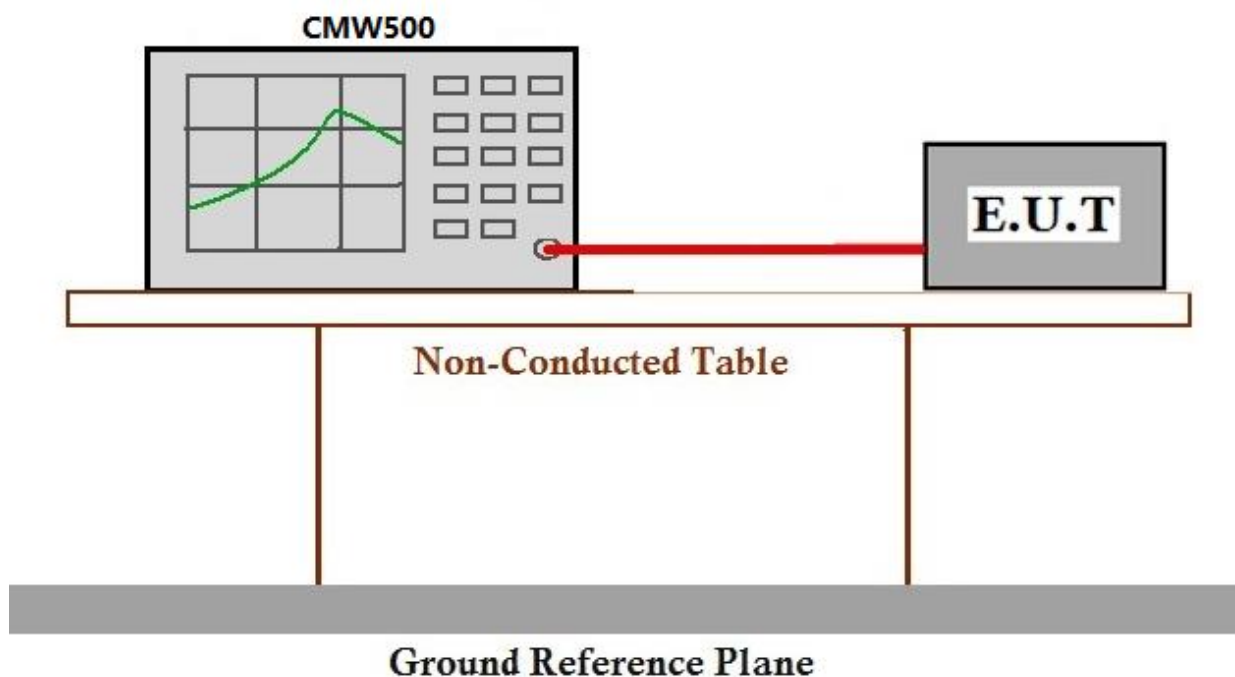
6.8 Modulation Characteristics

Test Requirement: §2.1047
Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
Temperature: 22.7 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar
Test mode: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

Please Refer to Appendix for Details



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2208001794CO

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2208001794CO



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9 Appendix

Appendix for GSM 850

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

| Band: GSM850 | | | | | | | | |
|--------------|---------|------------|-----------------|-----------------------|------------|-----------|---------|---------|
| ENV | Mode | | Frequency (MHz) | Conducted Power (dBm) | Gain (dbi) | ERP (dBm) | | Verdict |
| | Network | Subset | | | | Result | Limit | |
| NTNV | GPRS | 1 TX Slot | 824.2 | 31.61 | 0.40 | 29.86 | <=38.45 | Pass |
| | | 2 TX Slots | 824.2 | 29.62 | 0.40 | 27.87 | <=38.45 | Pass |
| | | 3 TX Slots | 824.2 | 28.53 | 0.40 | 26.78 | <=38.45 | Pass |
| | | 4 TX Slots | 824.2 | 27.50 | 0.40 | 25.75 | <=38.45 | Pass |
| | | 1 TX Slot | 836.6 | 31.67 | 0.40 | 29.92 | <=38.45 | Pass |
| | | 2 TX Slots | 836.6 | 30.78 | 0.40 | 29.03 | <=38.45 | Pass |
| | | 3 TX Slots | 836.6 | 29.67 | 0.40 | 27.92 | <=38.45 | Pass |
| | | 4 TX Slots | 836.6 | 27.02 | 0.40 | 25.27 | <=38.45 | Pass |
| | | 1 TX Slot | 848.8 | 31.80 | 0.40 | 30.05 | <=38.45 | Pass |
| | | 2 TX Slots | 848.8 | 31.79 | 0.40 | 30.04 | <=38.45 | Pass |
| | | 3 TX Slots | 848.8 | 29.50 | 0.40 | 27.75 | <=38.45 | Pass |
| | | 4 TX Slots | 848.8 | 28.97 | 0.40 | 27.22 | <=38.45 | Pass |
| | EGPRS | 1 TX Slot | 824.2 | 25.47 | 0.40 | 23.72 | <=38.45 | Pass |
| | | 2 TX Slots | 824.2 | 25.66 | 0.40 | 23.91 | <=38.45 | Pass |
| | | 3 TX Slots | 824.2 | 25.17 | 0.40 | 23.42 | <=38.45 | Pass |
| | | 4 TX Slots | 824.2 | 24.90 | 0.40 | 23.15 | <=38.45 | Pass |
| | | 1 TX Slot | 836.6 | 25.43 | 0.40 | 23.68 | <=38.45 | Pass |
| | | 2 TX Slots | 836.6 | 25.51 | 0.40 | 23.76 | <=38.45 | Pass |
| | | 3 TX Slots | 836.6 | 24.99 | 0.40 | 23.24 | <=38.45 | Pass |
| | | 4 TX Slots | 836.6 | 24.91 | 0.40 | 23.16 | <=38.45 | Pass |
| | | 1 TX Slot | 848.8 | 25.56 | 0.40 | 23.81 | <=38.45 | Pass |
| | | 2 TX Slots | 848.8 | 25.44 | 0.40 | 23.69 | <=38.45 | Pass |
| | | 3 TX Slots | 848.8 | 24.96 | 0.40 | 23.21 | <=38.45 | Pass |
| | | 4 TX Slots | 848.8 | 24.86 | 0.40 | 23.11 | <=38.45 | Pass |

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

| Band: GSM850 | | | | | | | |
|--------------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | | | | Result | Limit | |
| GPRS | 824.2 | 20 | 6.12 | 19.605 | 0.0238 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 34.718 | 0.0421 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 28.420 | 0.0345 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 28.503 | 0.0346 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 30.008 | 0.0364 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 29.619 | 0.0359 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 33.937 | 0.0412 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 33.541 | 0.0407 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 33.182 | 0.0403 | -2.5 to 2.5 | Pass |
| | | 40 | 7.20 | 33.725 | 0.0409 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 28.435 | 0.0345 | -2.5 to 2.5 | Pass |
| | 836.6 | 20 | 6.12 | 31.812 | 0.0380 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 34.204 | 0.0409 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 28.663 | 0.0343 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 33.204 | 0.0397 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 28.299 | 0.0338 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 28.292 | 0.0338 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 33.285 | 0.0398 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 32.980 | 0.0394 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 35.747 | 0.0427 | -2.5 to 2.5 | Pass |
| | | 40 | 7.20 | 27.884 | 0.0333 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 25.234 | 0.0302 | -2.5 to 2.5 | Pass |
| | 848.8 | 20 | 6.12 | 35.882 | 0.0423 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 33.723 | 0.0397 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 27.909 | 0.0329 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 26.107 | 0.0308 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 30.088 | 0.0354 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 26.636 | 0.0314 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 32.658 | 0.0385 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 34.703 | 0.0409 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 29.668 | 0.0350 | -2.5 to 2.5 | Pass |



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| | | | | | | | |
|-------|-------|-----|------|--------|--------|-------------|------|
| EGPRS | 824.2 | 40 | 7.20 | 31.166 | 0.0367 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 35.147 | 0.0414 | -2.5 to 2.5 | Pass |
| | | 20 | 6.12 | 34.554 | 0.0419 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 41.045 | 0.0498 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 28.403 | 0.0345 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 30.857 | 0.0374 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 29.064 | 0.0353 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 25.552 | 0.0310 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 26.782 | 0.0325 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 24.982 | 0.0303 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 36.027 | 0.0437 | -2.5 to 2.5 | Pass |
| | | 40 | 7.20 | 33.743 | 0.0409 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 38.758 | 0.0470 | -2.5 to 2.5 | Pass |
| | 836.6 | 20 | 6.12 | 37.482 | 0.0448 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 35.550 | 0.0425 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 36.353 | 0.0435 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 35.732 | 0.0427 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 29.486 | 0.0352 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 28.258 | 0.0338 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 28.656 | 0.0343 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 28.437 | 0.0340 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 23.442 | 0.0280 | -2.5 to 2.5 | Pass |
| | | 40 | 7.20 | 26.176 | 0.0313 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 25.258 | 0.0302 | -2.5 to 2.5 | Pass |
| | 848.8 | 20 | 6.12 | 28.966 | 0.0341 | -2.5 to 2.5 | Pass |
| | | | 7.20 | 24.858 | 0.0293 | -2.5 to 2.5 | Pass |
| | | | 8.28 | 23.677 | 0.0279 | -2.5 to 2.5 | Pass |
| | | -30 | 7.20 | 24.843 | 0.0293 | -2.5 to 2.5 | Pass |
| | | -20 | 7.20 | 22.453 | 0.0265 | -2.5 to 2.5 | Pass |
| | | -10 | 7.20 | 26.817 | 0.0316 | -2.5 to 2.5 | Pass |
| | | 0 | 7.20 | 31.453 | 0.0371 | -2.5 to 2.5 | Pass |
| | | 10 | 7.20 | 28.408 | 0.0335 | -2.5 to 2.5 | Pass |
| | | 30 | 7.20 | 26.633 | 0.0314 | -2.5 to 2.5 | Pass |
| | | 40 | 7.20 | 27.605 | 0.0325 | -2.5 to 2.5 | Pass |
| | | 50 | 7.20 | 25.128 | 0.0296 | -2.5 to 2.5 | Pass |

3. Modulation Characteristics

3.1 GSM850



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3.1.1 Test Result

| Band: GSM850 | | | | | |
|--------------|---------|-----------|--------------------|----------------------------|---------|
| ENV | Mode | | Frequency (MHz) | Modulation Characteristics | |
| | Network | Subset | | Result | Limit |
| NTNV | GPRS | 1 TX Slot | 836.6 | Refer To Test Graph | |
| | EGPRS | 1 TX Slot | 836.6 | Refer To Test Graph | |
| | | | | | Verdict |
| | | | | | Pass |
| | | | | | Pass |



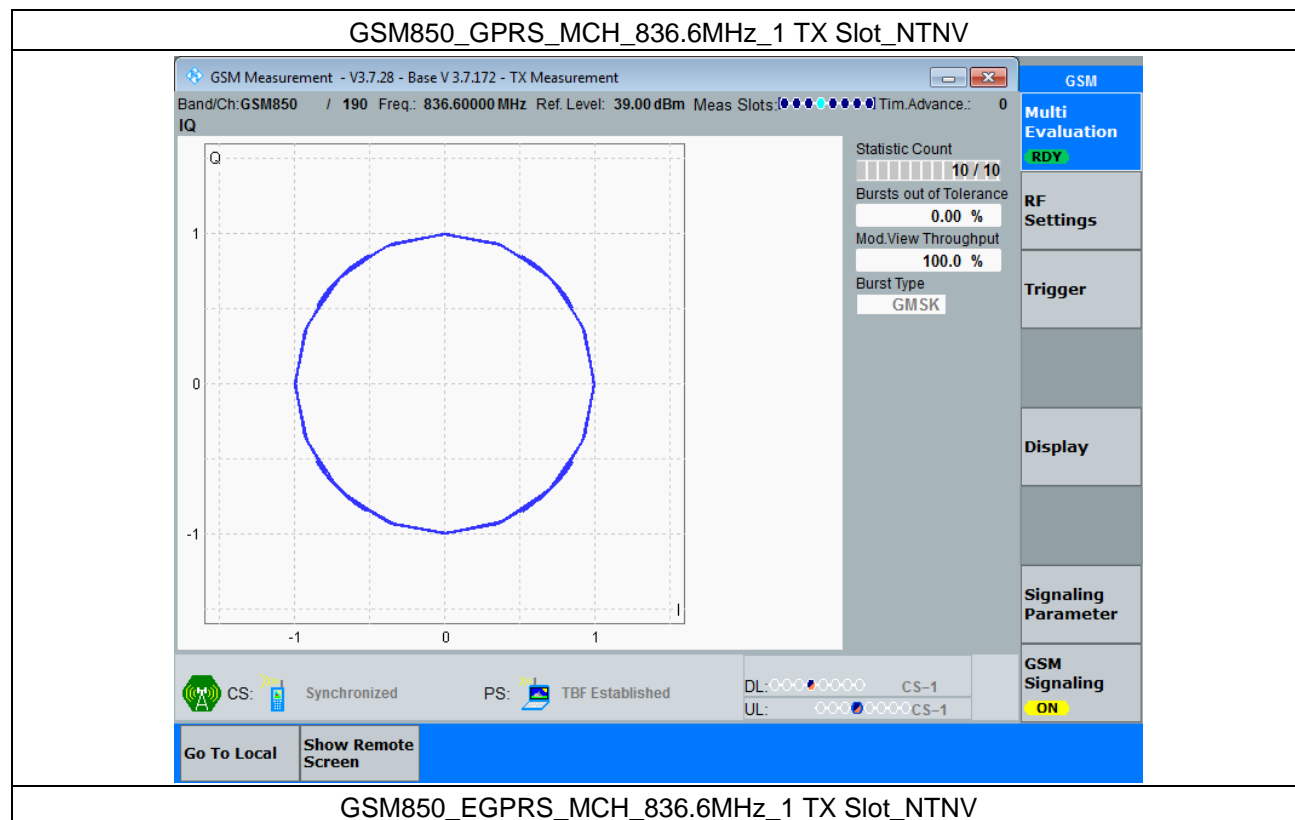
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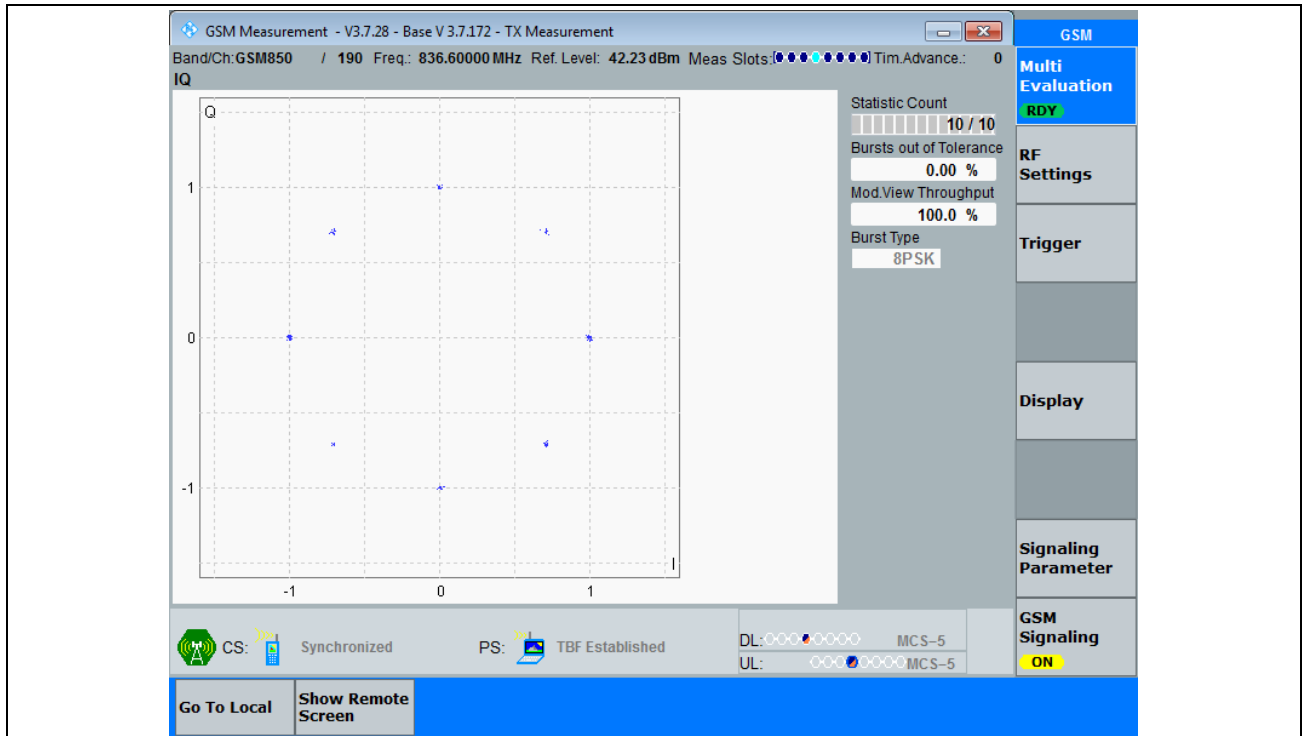
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3.1.2 Test Graph







4. 99% & 26dB Bandwidth

4.1 GSM850_OBW

4.1.1 Test Result

| Band: GSM850 | | | | | |
|--------------|---------|-----------|--------------------|------------------------------|---------|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | GPRS | 1 TX Slot | 824.2 | 0.246 | Pass |
| | | | 836.6 | 0.249 | Pass |
| | | | 848.8 | 0.243 | Pass |
| | EGPRS | 1 TX Slot | 824.2 | 0.243 | Pass |
| | | | 836.6 | 0.245 | Pass |
| | | | 848.8 | 0.247 | Pass |



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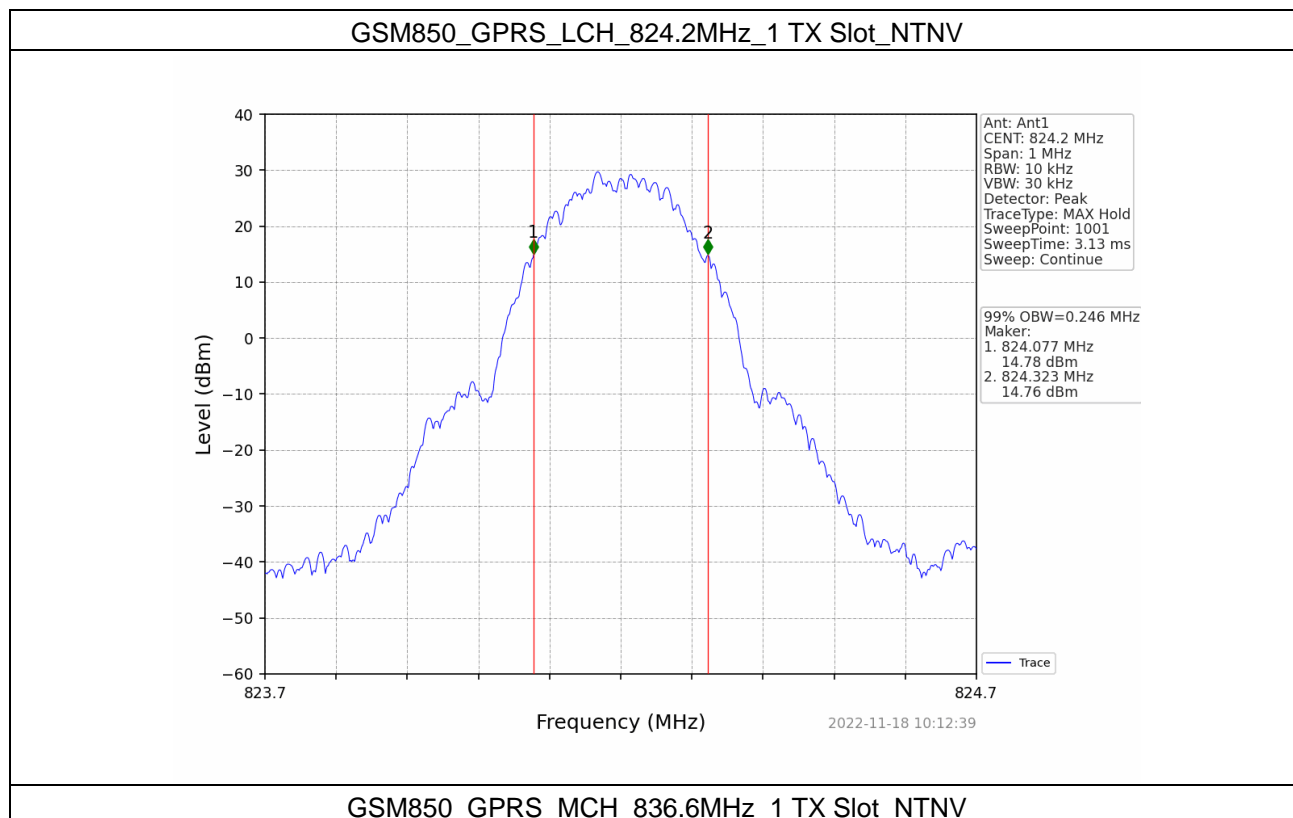
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4.1.2 Test Graph

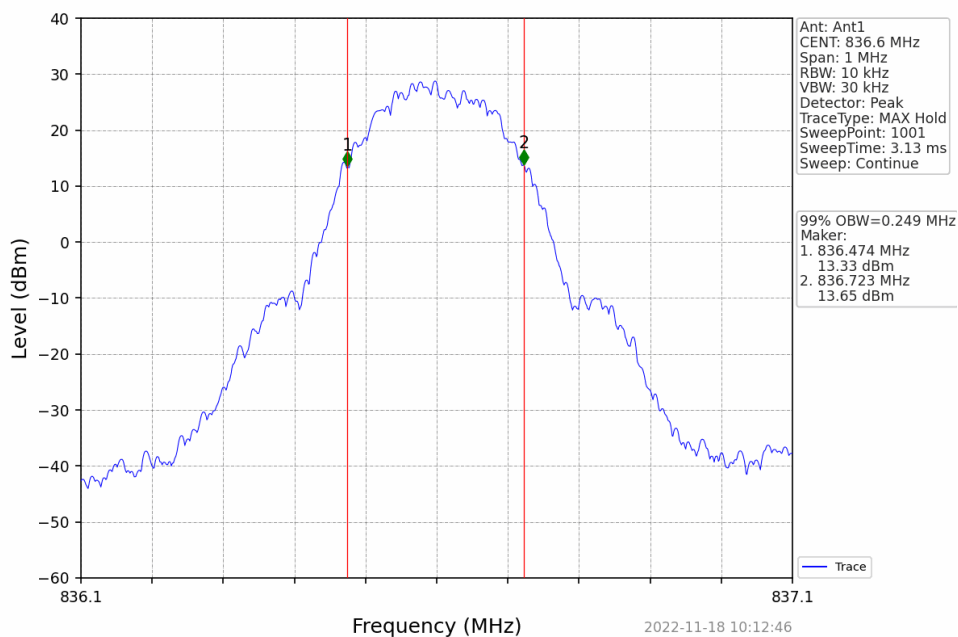


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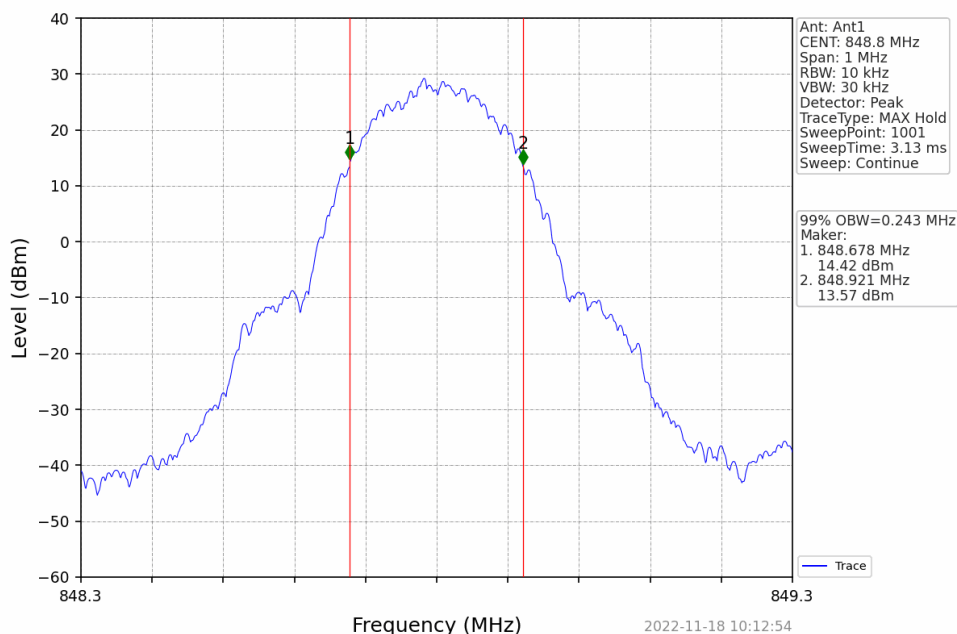
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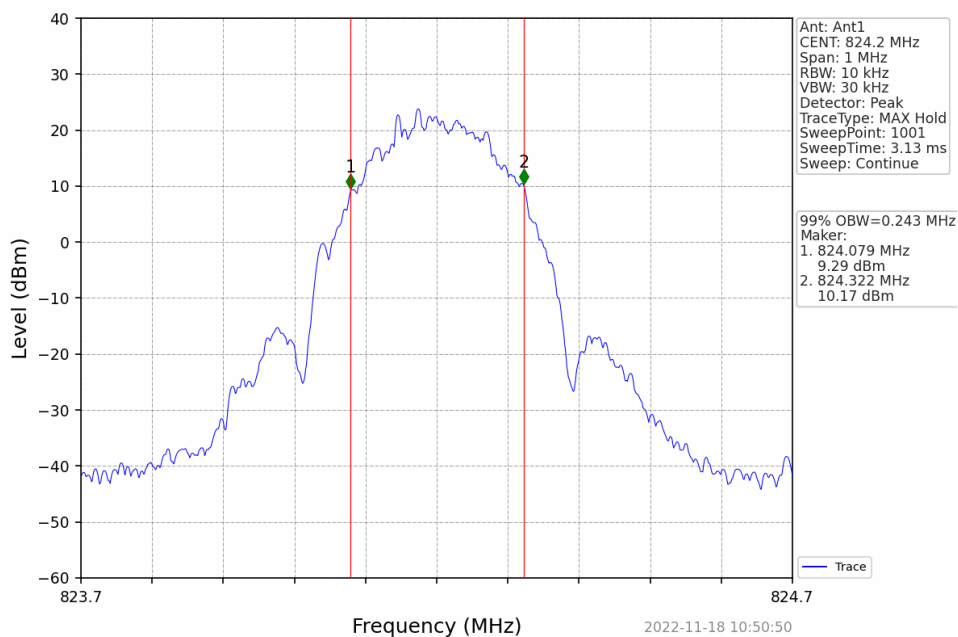


GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV





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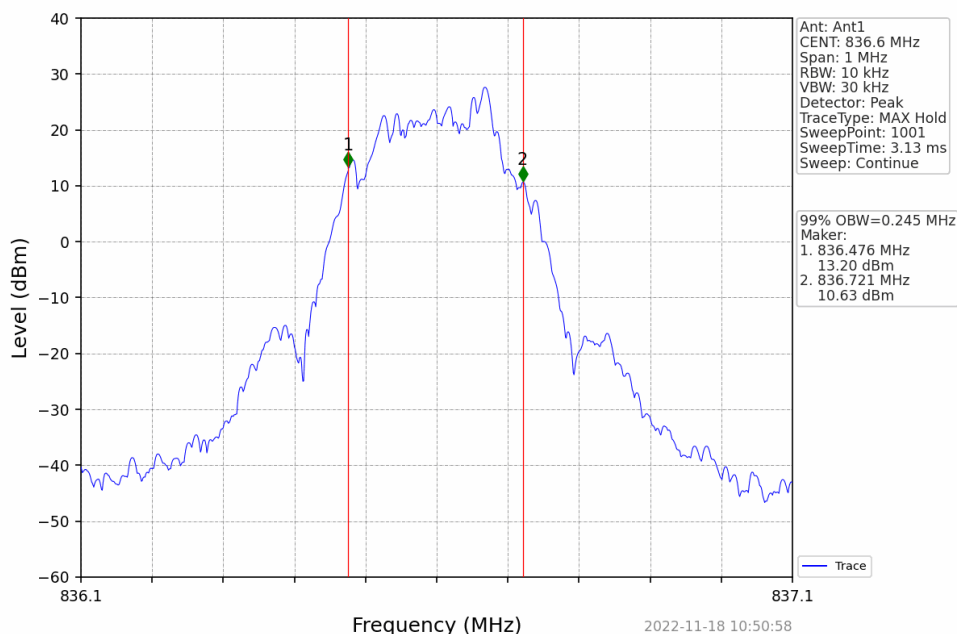
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

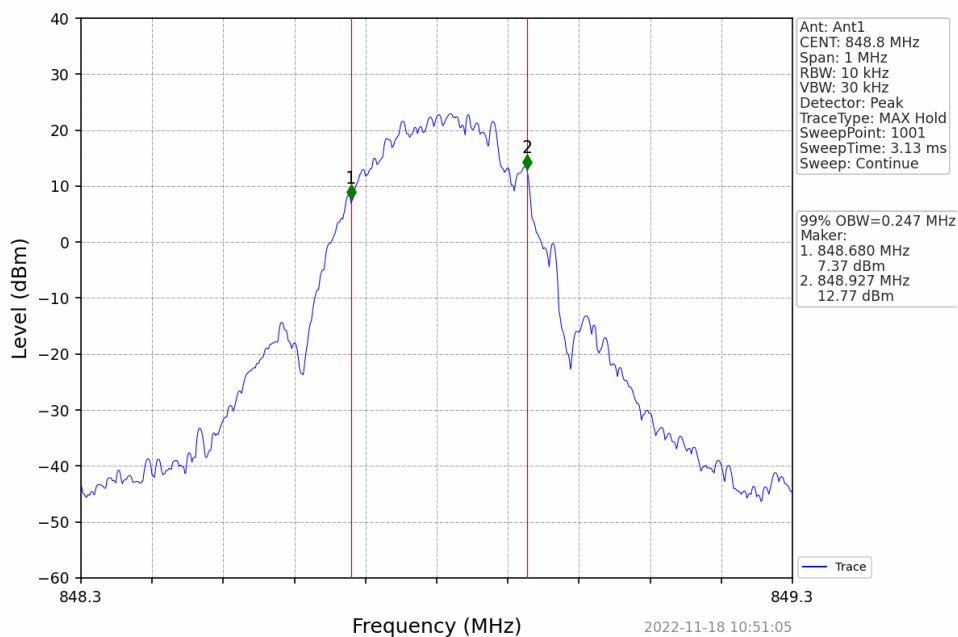


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4.2 GSM850_XDB

4.2.1 Test Result

| Band: GSM850 | | | | | |
|--------------|---------|-----------|--------------------|----------------------|---------|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | GPRS | 1 TX Slot | 824.2 | 0.319 | Pass |
| | | | 836.6 | 0.311 | Pass |
| | | | 848.8 | 0.316 | Pass |
| | EGPRS | 1 TX Slot | 824.2 | 0.321 | Pass |
| | | | 836.6 | 0.295 | Pass |
| | | | 848.8 | 0.325 | Pass |



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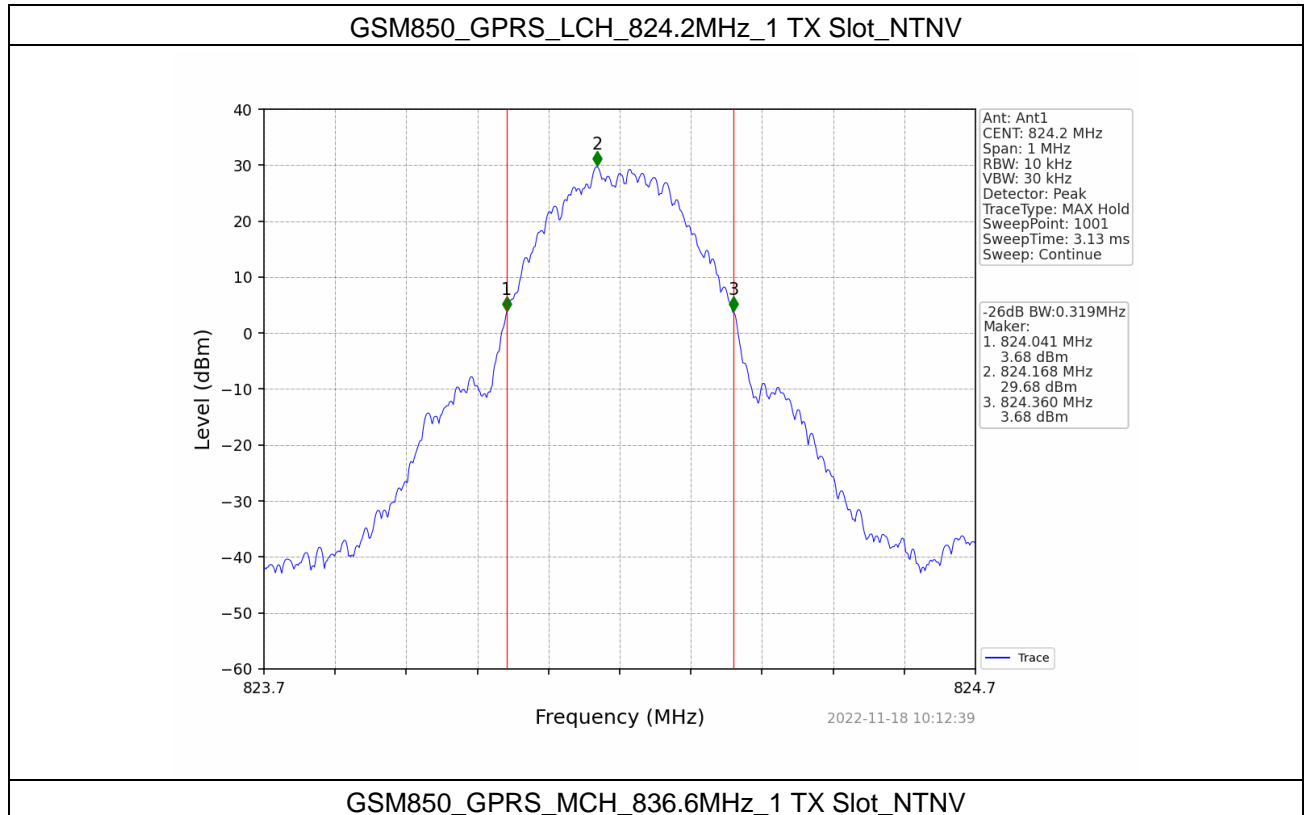
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4.2.2 Test Graph



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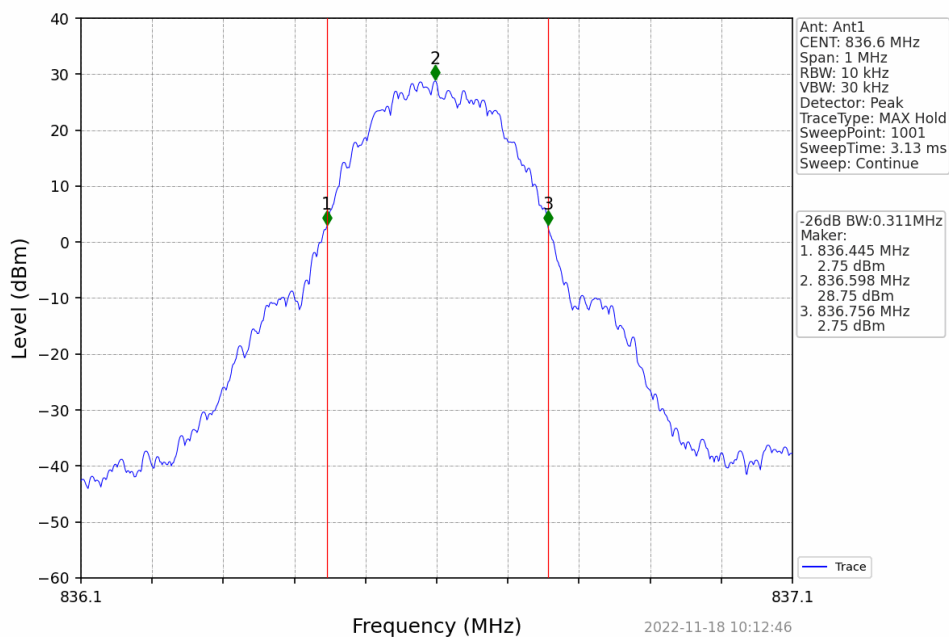
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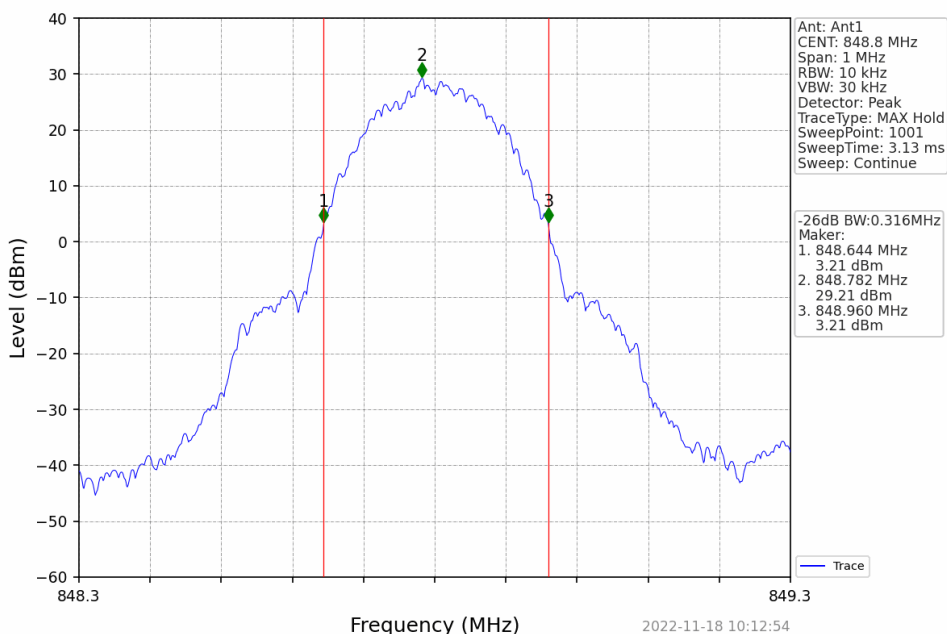
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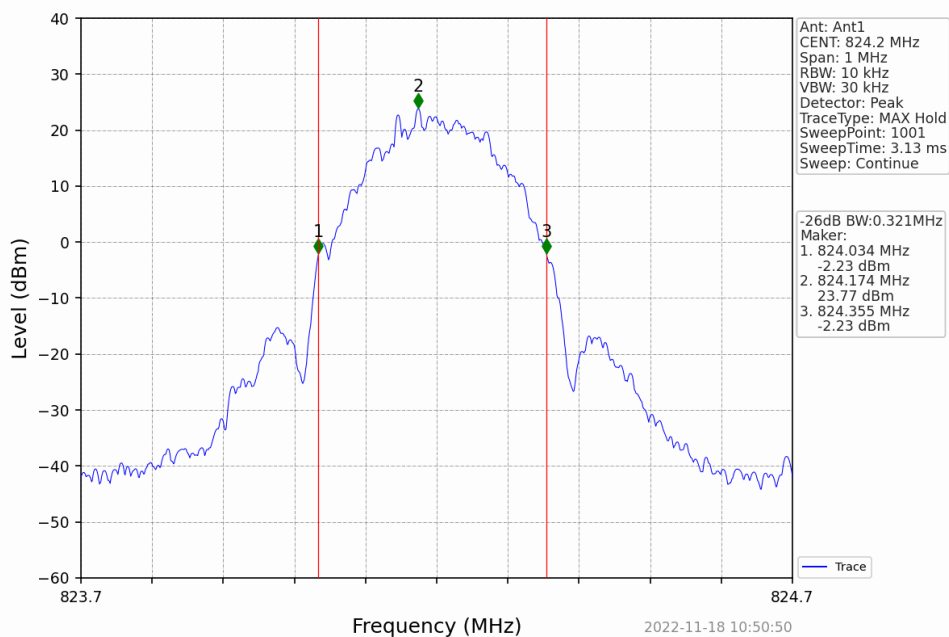


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GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV





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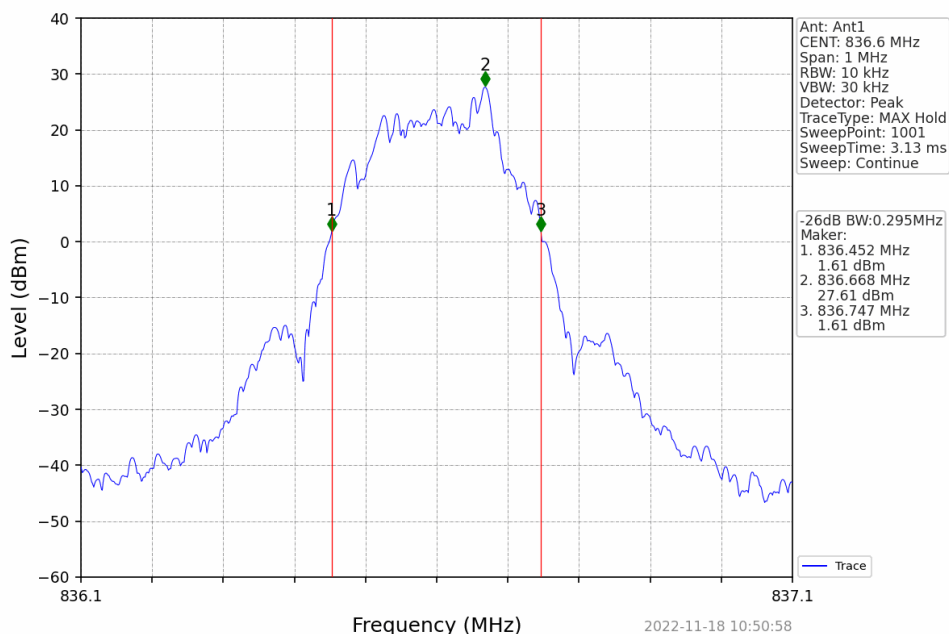
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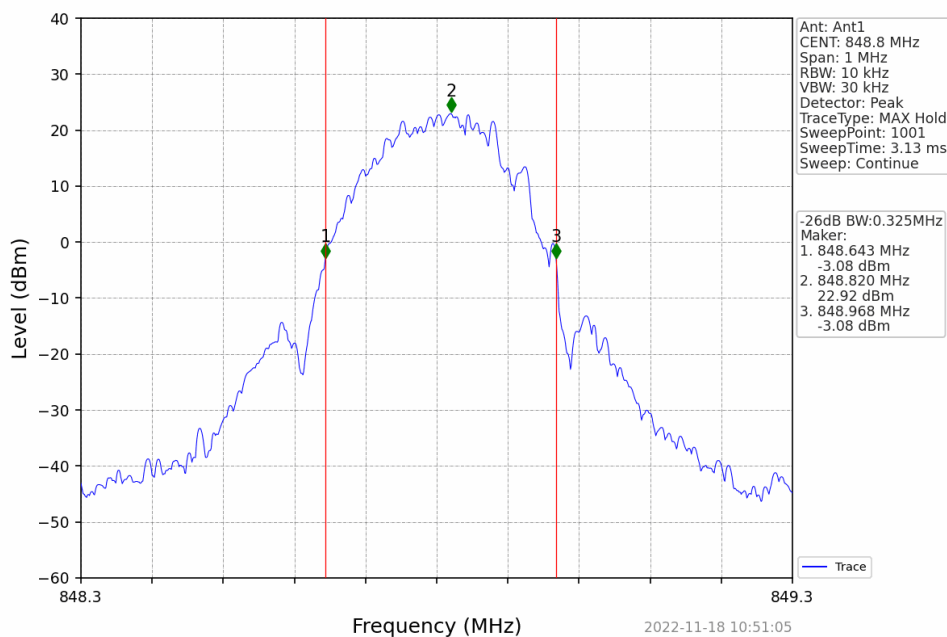
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5. Peak-Average Ratio

5.1 GSM850

5.1.1 Test Result

| Band: GSM850 | | | | | | |
|--------------|---------|------------|--------------------|-------------------------|-----------|---------|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GPRS | 4 TX Slots | 824.2 | 9.78 | ≤ 13 | Pass |
| | | | 836.6 | 3.68 | ≤ 13 | Pass |
| | | | 848.8 | 3.76 | ≤ 13 | Pass |
| | EGPRS | 4 TX Slots | 824.2 | 6.68 | ≤ 13 | Pass |
| | | | 836.6 | 6.69 | ≤ 13 | Pass |
| | | | 848.8 | 6.70 | ≤ 13 | Pass |



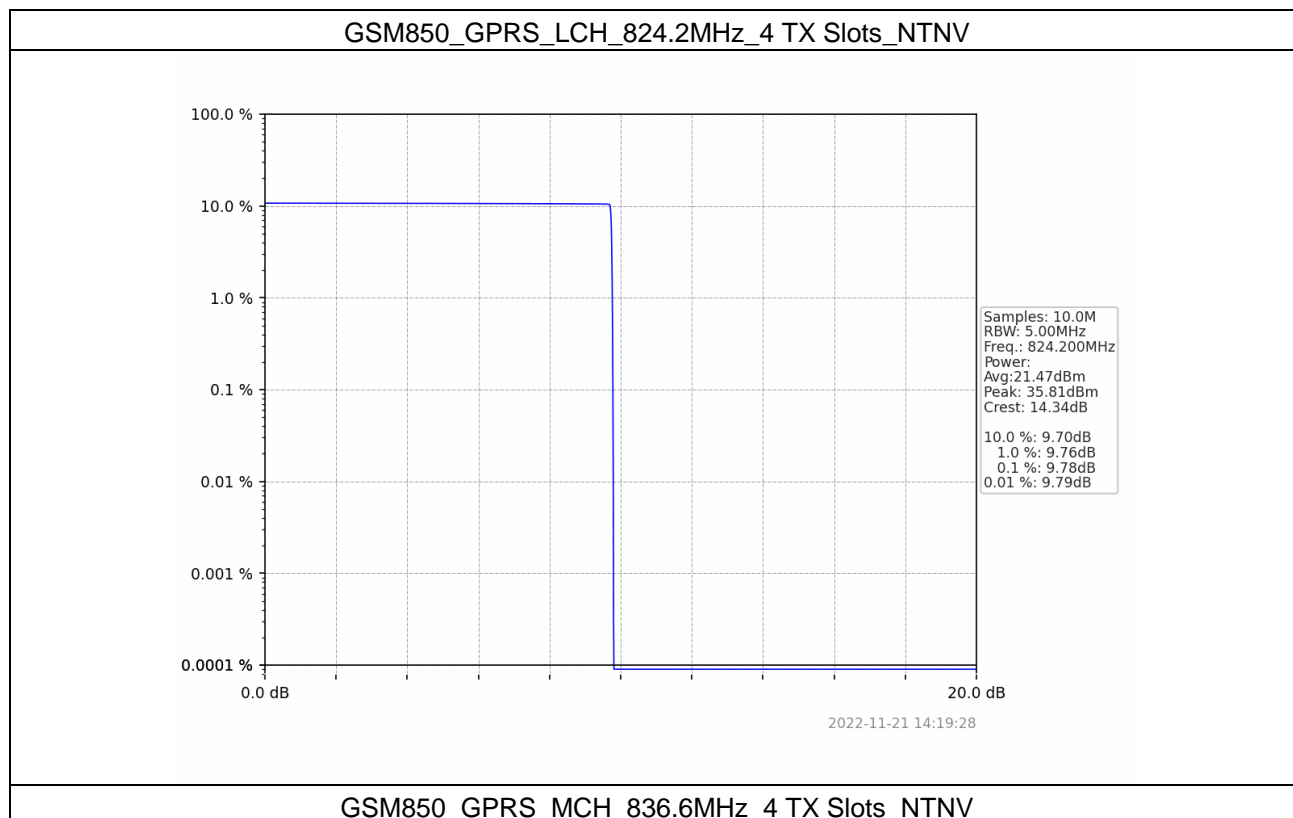
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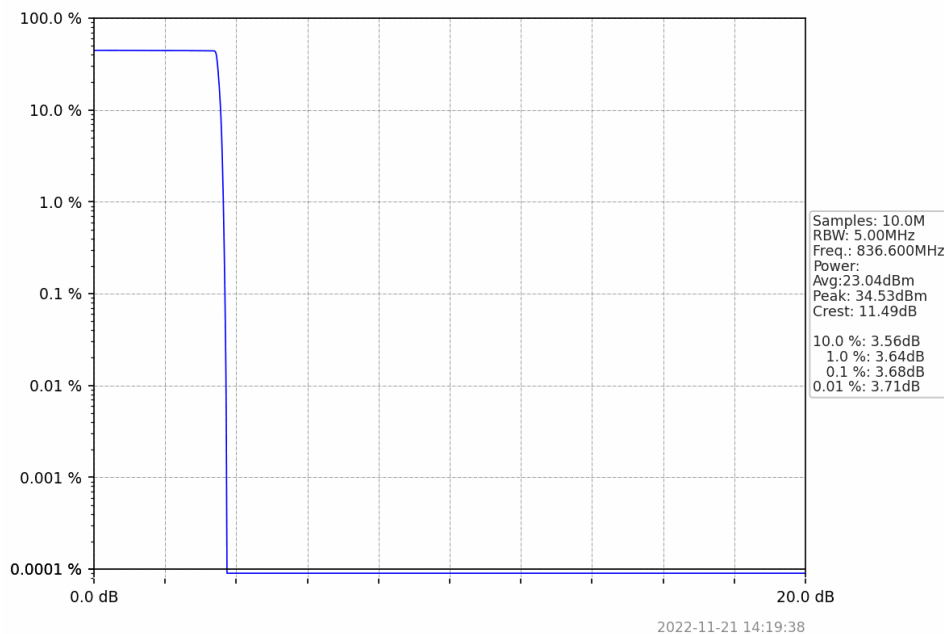
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5.1.2 Test Graph



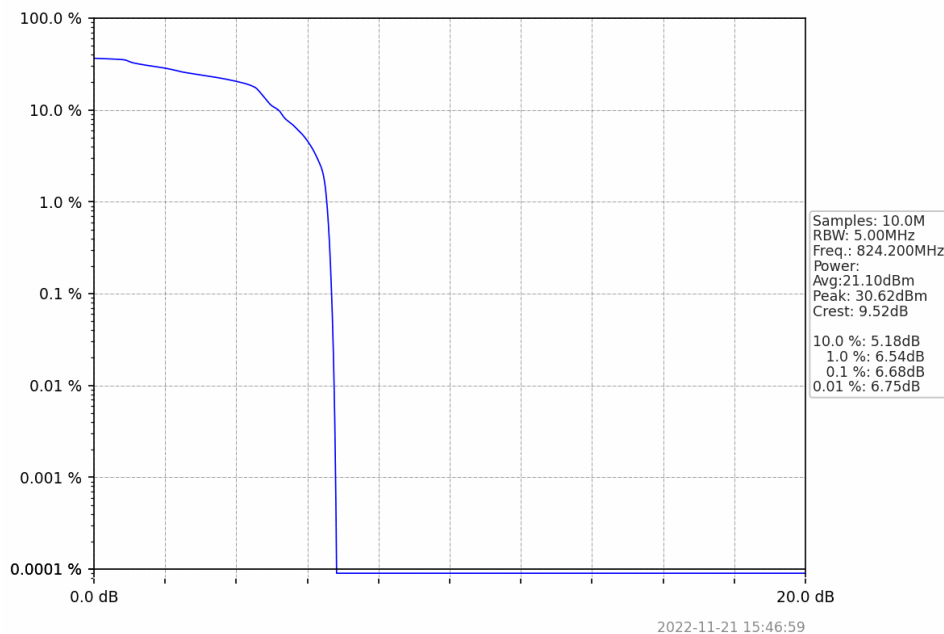


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GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV





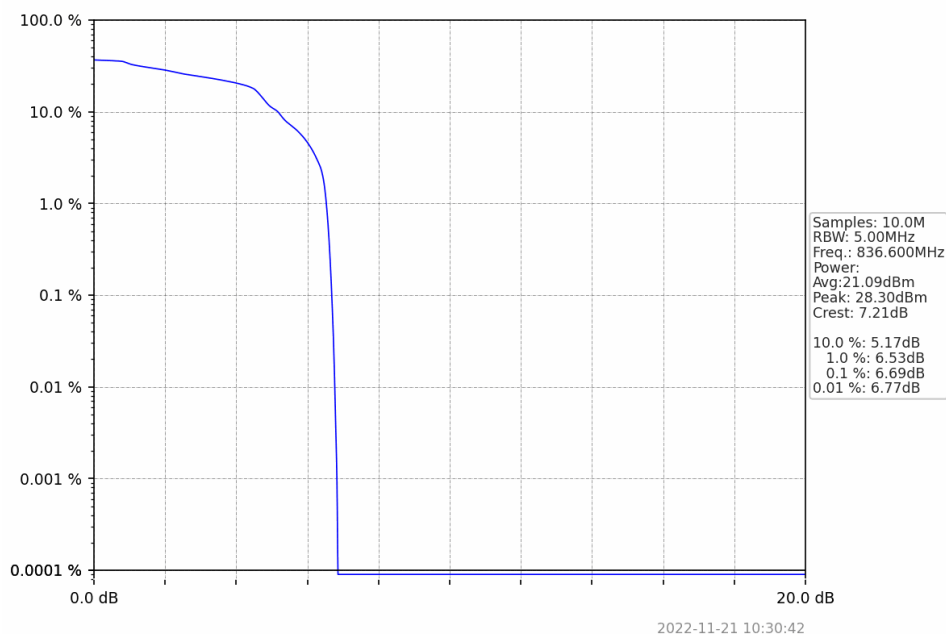
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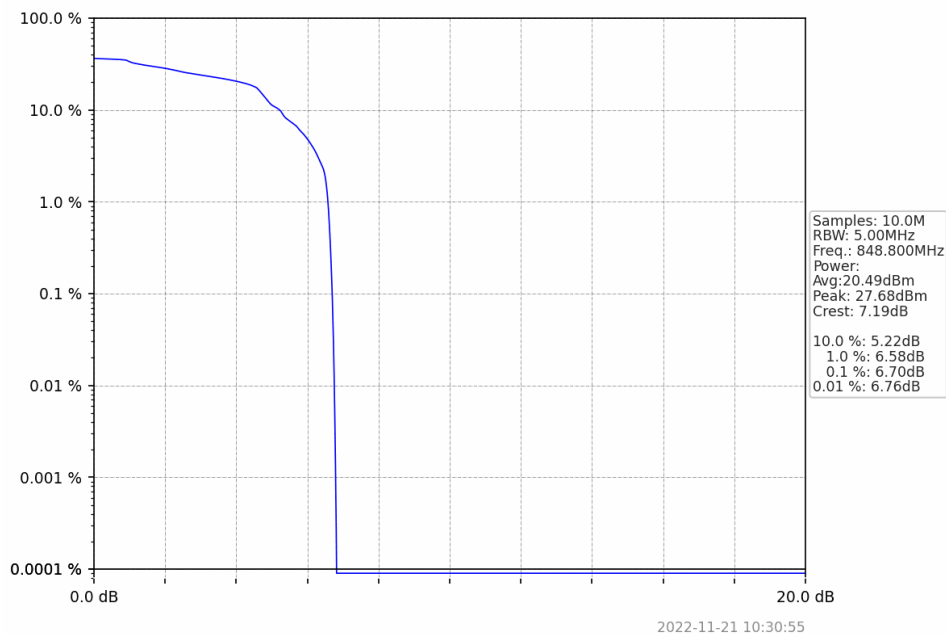
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GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV







6. Spurious Emission

6.1 GSM850

6.1.1 Test Result

| Band: GSM850 | | | | | | |
|--------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GPRS | 1 TX Slot | 824.2 | Refer To Test Graph | | Pass |
| | | | 836.6 | Refer To Test Graph | | Pass |
| | | | 848.8 | Refer To Test Graph | | Pass |
| | EGPRS | 1 TX Slot | 824.2 | Refer To Test Graph | | Pass |
| | | | 836.6 | Refer To Test Graph | | Pass |
| | | | 848.8 | Refer To Test Graph | | Pass |



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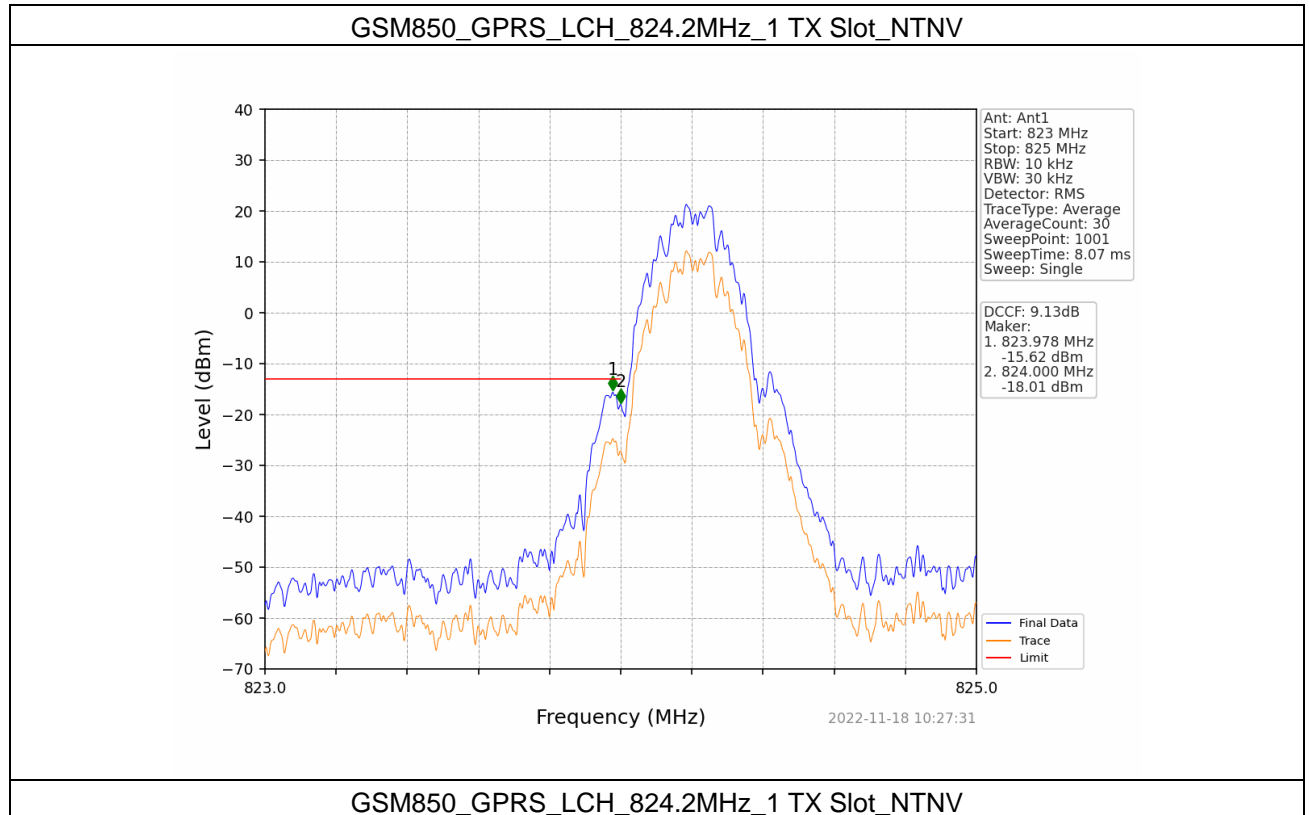
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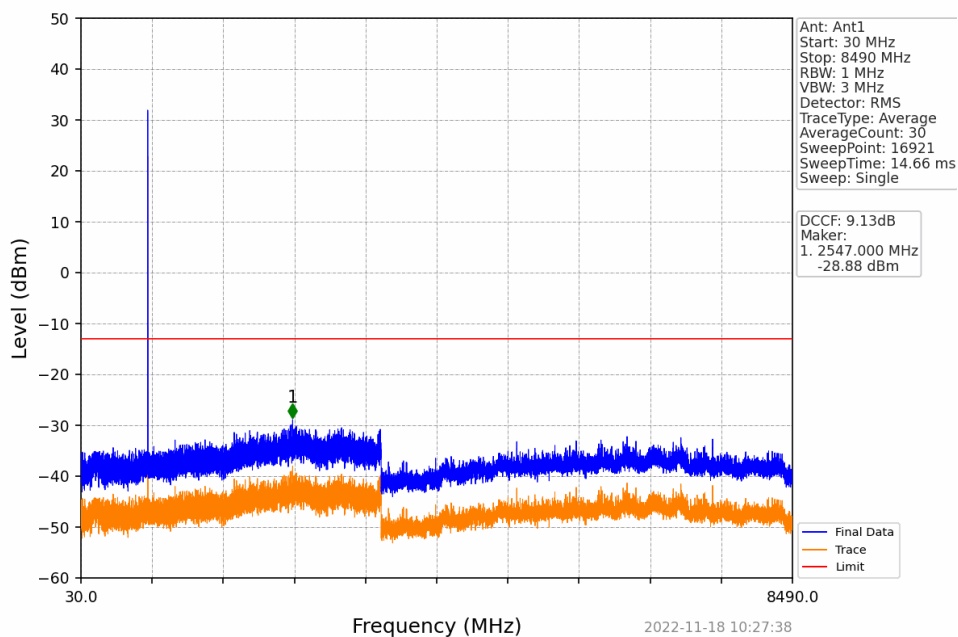
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6.1.2 Test Graph





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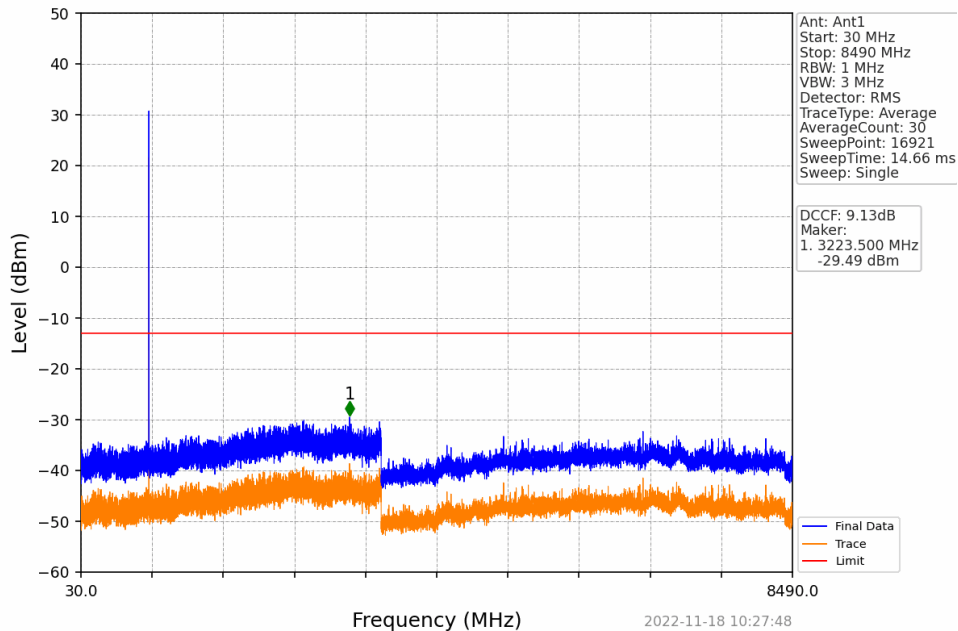
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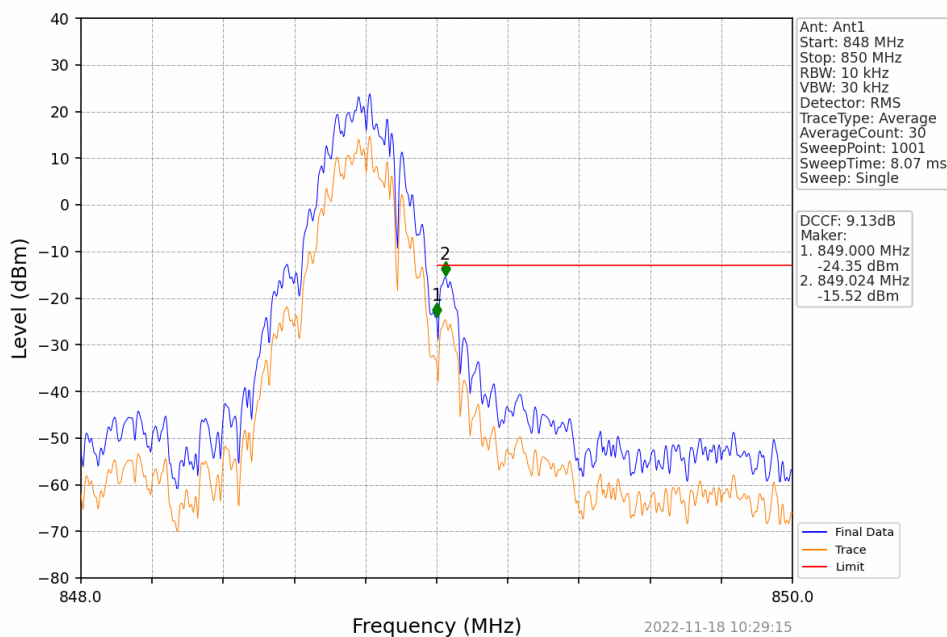
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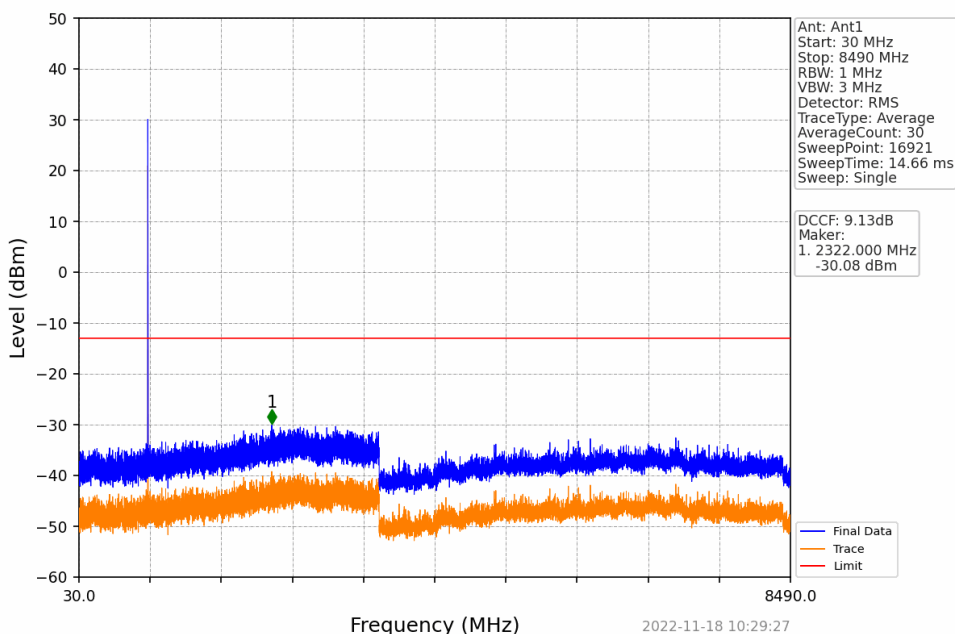




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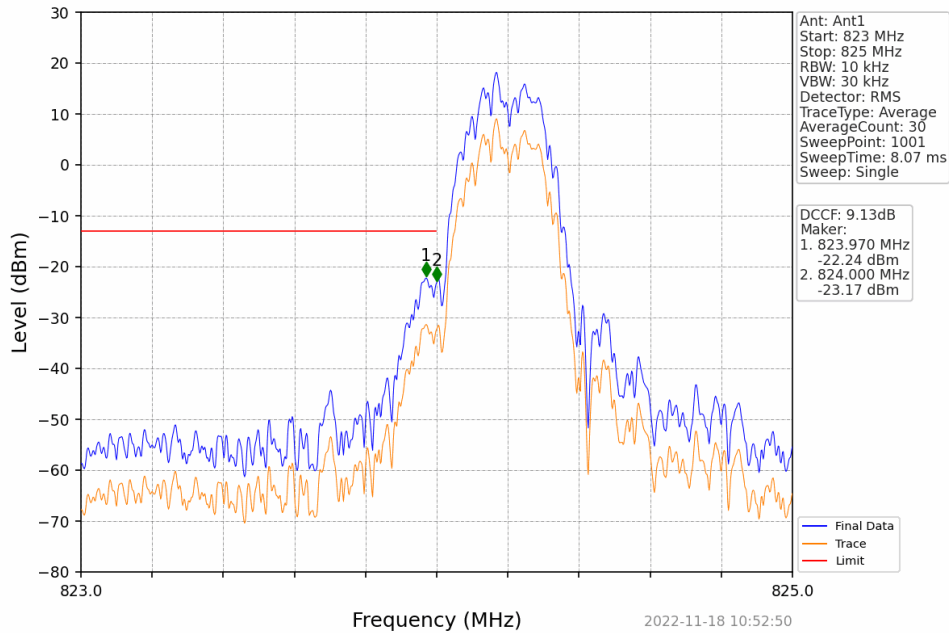
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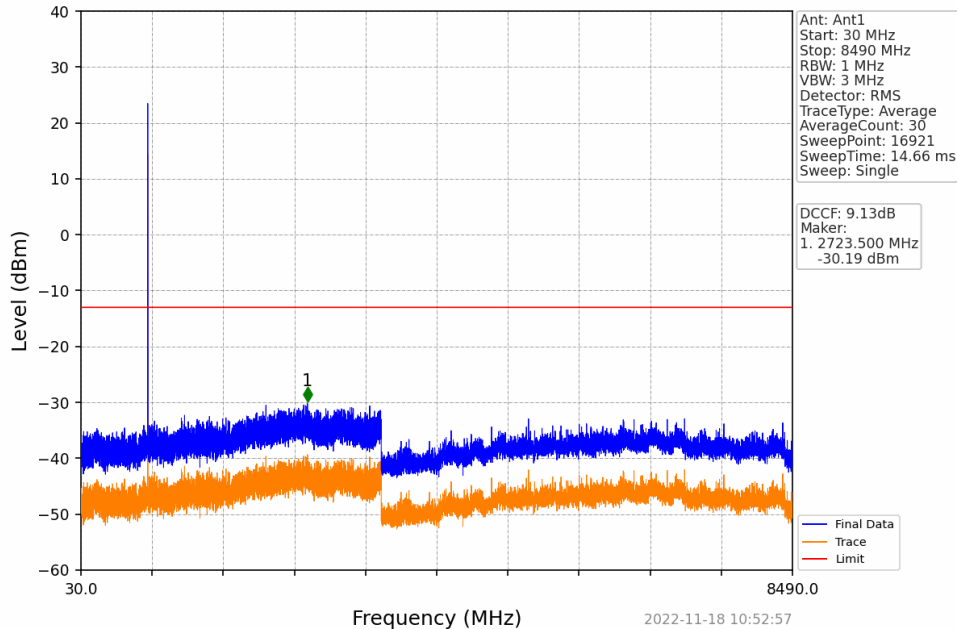
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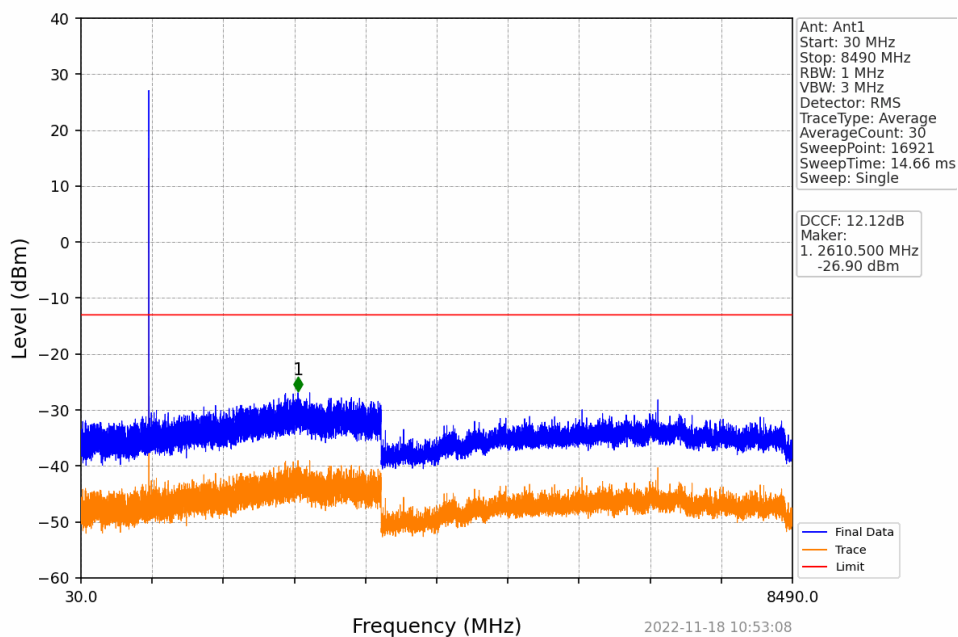
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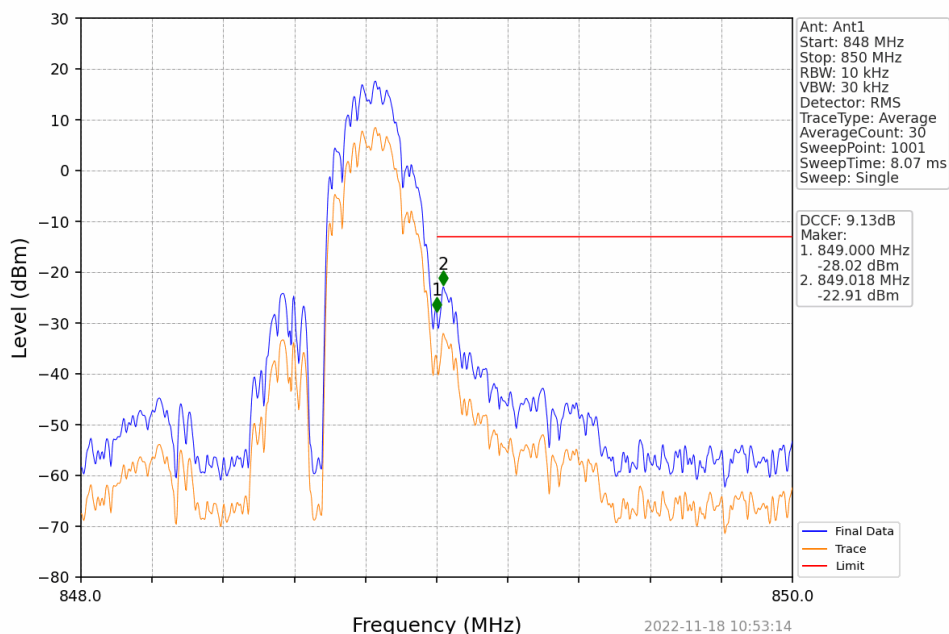


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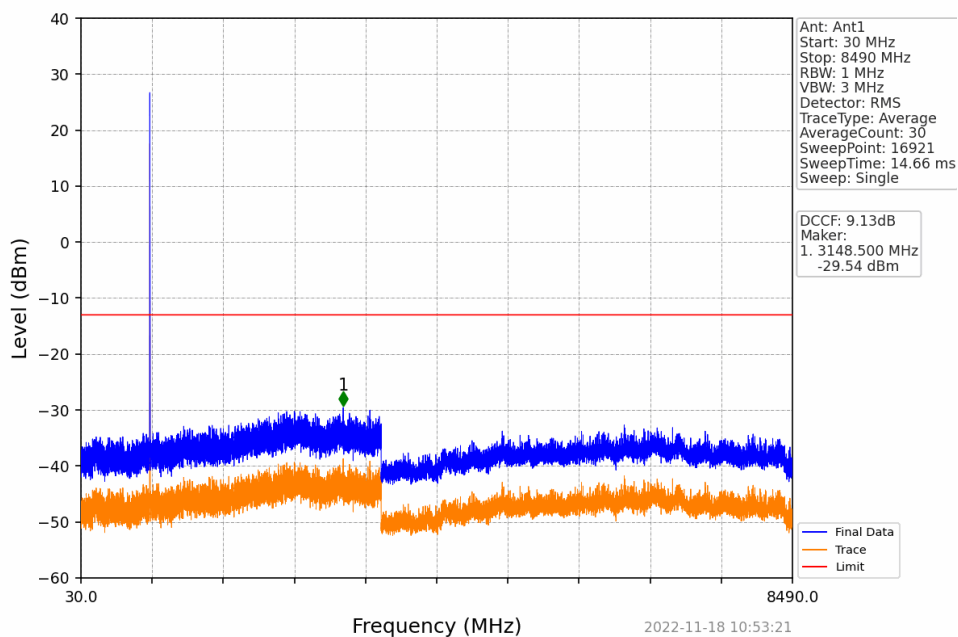


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Appendix for PCS 1900

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

| Band: PCS1900 | | | | | | | | |
|---------------|---------|------------|--------------------|--------------------------|---------------|------------|---------|---------|
| ENV | Mode | | Frequency (MHz) | Conducted Power (dBm) | Gain (dbi) | EIRP (dBm) | | Verdict |
| | Network | Subset | | | | Result | Limit | |
| NTNV | GPRS | 1 TX Slot | 1850.2 | 28.48 | 2.30 | 30.78 | <=33.01 | Pass |
| | | 2 TX Slots | 1850.2 | 26.43 | 2.30 | 28.73 | <=33.01 | Pass |
| | | 3 TX Slots | 1850.2 | 24.80 | 2.30 | 27.10 | <=33.01 | Pass |
| | | 4 TX Slots | 1850.2 | 22.81 | 2.30 | 25.11 | <=33.01 | Pass |
| | | 1 TX Slot | 1880 | 28.44 | 2.30 | 30.74 | <=33.01 | Pass |
| | | 2 TX Slots | 1880 | 26.40 | 2.30 | 28.70 | <=33.01 | Pass |
| | | 3 TX Slots | 1880 | 24.35 | 2.30 | 26.65 | <=33.01 | Pass |
| | | 4 TX Slots | 1880 | 22.29 | 2.30 | 24.59 | <=33.01 | Pass |
| | | 1 TX Slot | 1909.8 | 28.52 | 2.30 | 30.82 | <=33.01 | Pass |
| | | 2 TX Slots | 1909.8 | 26.49 | 2.30 | 28.79 | <=33.01 | Pass |
| | | 3 TX Slots | 1909.8 | 24.34 | 2.30 | 26.64 | <=33.01 | Pass |
| | | 4 TX Slots | 1909.8 | 22.32 | 2.30 | 24.62 | <=33.01 | Pass |
| | EGPRS | 1 TX Slot | 1850.2 | 24.60 | 2.30 | 26.90 | <=33.01 | Pass |
| | | 2 TX Slots | 1850.2 | 22.52 | 2.30 | 24.82 | <=33.01 | Pass |
| | | 3 TX Slots | 1850.2 | 20.61 | 2.30 | 22.91 | <=33.01 | Pass |
| | | 4 TX Slots | 1850.2 | 18.55 | 2.30 | 20.85 | <=33.01 | Pass |
| | | 1 TX Slot | 1880 | 24.32 | 2.30 | 26.62 | <=33.01 | Pass |
| | | 2 TX Slots | 1880 | 22.43 | 2.30 | 24.73 | <=33.01 | Pass |
| | | 3 TX Slots | 1880 | 20.41 | 2.30 | 22.71 | <=33.01 | Pass |
| | | 4 TX Slots | 1880 | 18.30 | 2.30 | 20.60 | <=33.01 | Pass |
| | | 1 TX Slot | 1909.8 | 24.47 | 2.30 | 26.77 | <=33.01 | Pass |
| | | 2 TX Slots | 1909.8 | 22.42 | 2.30 | 24.72 | <=33.01 | Pass |
| | | 3 TX Slots | 1909.8 | 20.15 | 2.30 | 22.45 | <=33.01 | Pass |
| | | 4 TX Slots | 1909.8 | 18.08 | 2.30 | 20.38 | <=33.01 | Pass |

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900



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2.1.1 Test Result

| Band: PCS1900 | | | | | | | |
|---------------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) | | Verdict |
| | | | | | Result | Limit | |
| GPRS | 1850.2 | 20 | 3.27 | 12.969 | 0.0070 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 24.282 | 0.0131 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 31.726 | 0.0171 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 27.624 | 0.0149 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 29.183 | 0.0158 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 34.685 | 0.0187 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 27.859 | 0.0151 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 32.319 | 0.0175 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 16.673 | 0.0090 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 12.196 | 0.0066 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 8.297 | 0.0045 | -2.5 to 2.5 | Pass |
| | 1880 | 20 | 3.27 | 26.373 | 0.0140 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 12.981 | 0.0069 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 11.394 | 0.0061 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 1.759 | 0.0009 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 35.800 | 0.0190 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 33.159 | 0.0176 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 11.464 | 0.0061 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 33.844 | 0.0180 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 9.121 | 0.0049 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 3.380 | 0.0018 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 10.951 | 0.0058 | -2.5 to 2.5 | Pass |
| | 1909.8 | 20 | 3.27 | 14.294 | 0.0075 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 1.259 | 0.0007 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 4.544 | 0.0024 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 11.523 | 0.0060 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 12.515 | 0.0066 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 25.627 | 0.0134 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 23.355 | 0.0122 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 23.046 | 0.0121 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 20.238 | 0.0106 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 25.985 | 0.0136 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 26.045 | 0.0136 | -2.5 to 2.5 | Pass |
| EGPRS | 1850.2 | 20 | 3.27 | 19.865 | 0.0107 | -2.5 to 2.5 | Pass |



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| | | | | | | | |
|--|--------|-----|------|--------|--------|-------------|------|
| | | | 3.85 | 8.980 | 0.0049 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 10.262 | 0.0055 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 9.092 | 0.0049 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 8.238 | 0.0045 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 7.465 | 0.0040 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 14.310 | 0.0077 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 20.907 | 0.0113 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 28.822 | 0.0156 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 25.049 | 0.0135 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 27.029 | 0.0146 | -2.5 to 2.5 | Pass |
| | 1880 | 20 | 3.27 | 2.508 | 0.0013 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 25.575 | 0.0136 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 25.105 | 0.0134 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 15.699 | 0.0084 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 9.767 | 0.0052 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 6.949 | 0.0037 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 23.424 | 0.0125 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 12.820 | 0.0068 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 7.499 | 0.0040 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 26.286 | 0.0140 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 30.345 | 0.0161 | -2.5 to 2.5 | Pass |
| | 1909.8 | 20 | 3.27 | 35.646 | 0.0187 | -2.5 to 2.5 | Pass |
| | | | 3.85 | 42.072 | 0.0220 | -2.5 to 2.5 | Pass |
| | | | 4.43 | 43.229 | 0.0226 | -2.5 to 2.5 | Pass |
| | | -30 | 3.85 | 28.416 | 0.0149 | -2.5 to 2.5 | Pass |
| | | -20 | 3.85 | 19.528 | 0.0102 | -2.5 to 2.5 | Pass |
| | | -10 | 3.85 | 12.848 | 0.0067 | -2.5 to 2.5 | Pass |
| | | 0 | 3.85 | 13.777 | 0.0072 | -2.5 to 2.5 | Pass |
| | | 10 | 3.85 | 11.534 | 0.0060 | -2.5 to 2.5 | Pass |
| | | 30 | 3.85 | 1.849 | 0.0010 | -2.5 to 2.5 | Pass |
| | | 40 | 3.85 | 6.673 | 0.0035 | -2.5 to 2.5 | Pass |
| | | 50 | 3.85 | 7.275 | 0.0038 | -2.5 to 2.5 | Pass |

3. Modulation Characteristics

3.1 PCS1900

3.1.1 Test Result

Band: PCS1900



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| ENV | Mode | | Frequency (MHz) | Modulation Characteristics | | Verdict |
|------|---------|-----------|--------------------|----------------------------|-------|---------|
| | Network | Subset | | Result | Limit | |
| NTNV | GPRS | 1 TX Slot | 1880 | Refer To Test Graph | | Pass |
| | EGPRS | 1 TX Slot | 1880 | Refer To Test Graph | | Pass |



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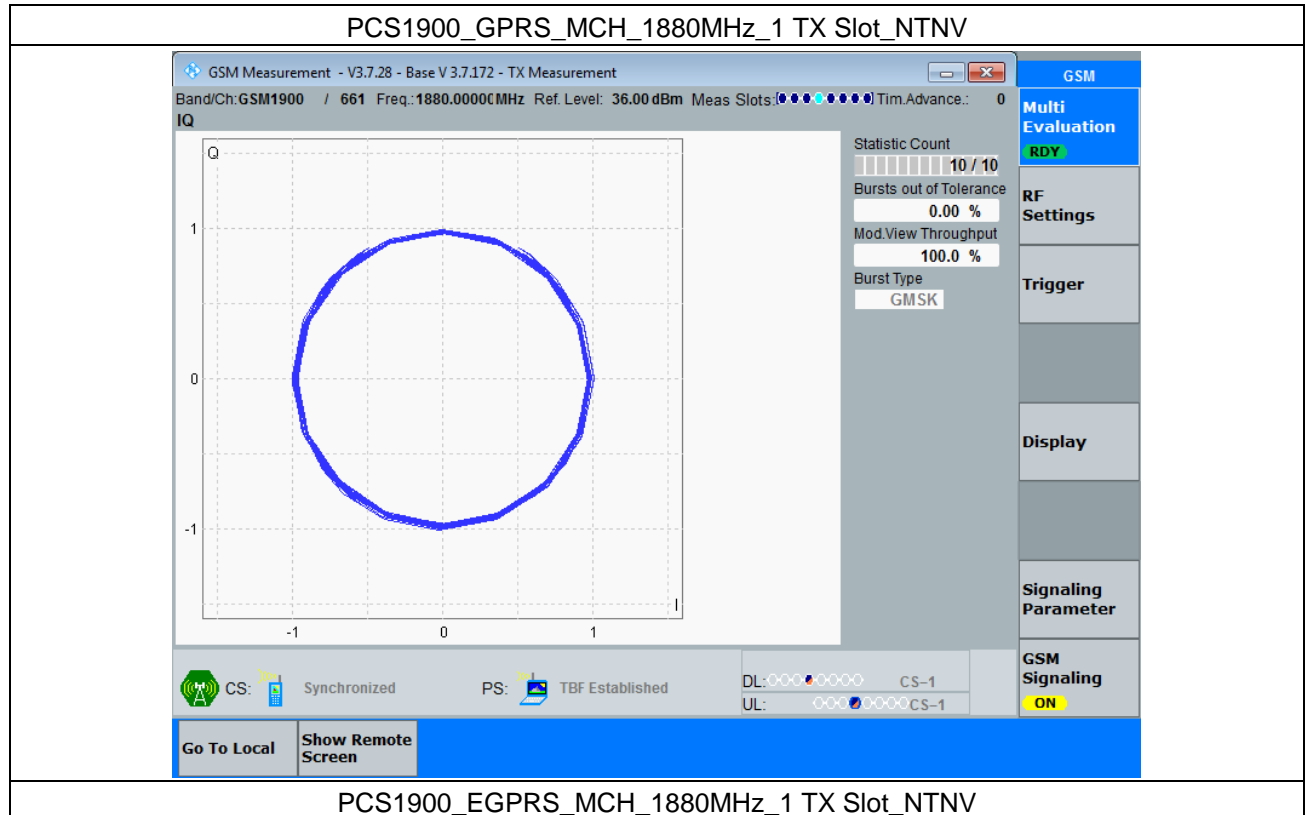
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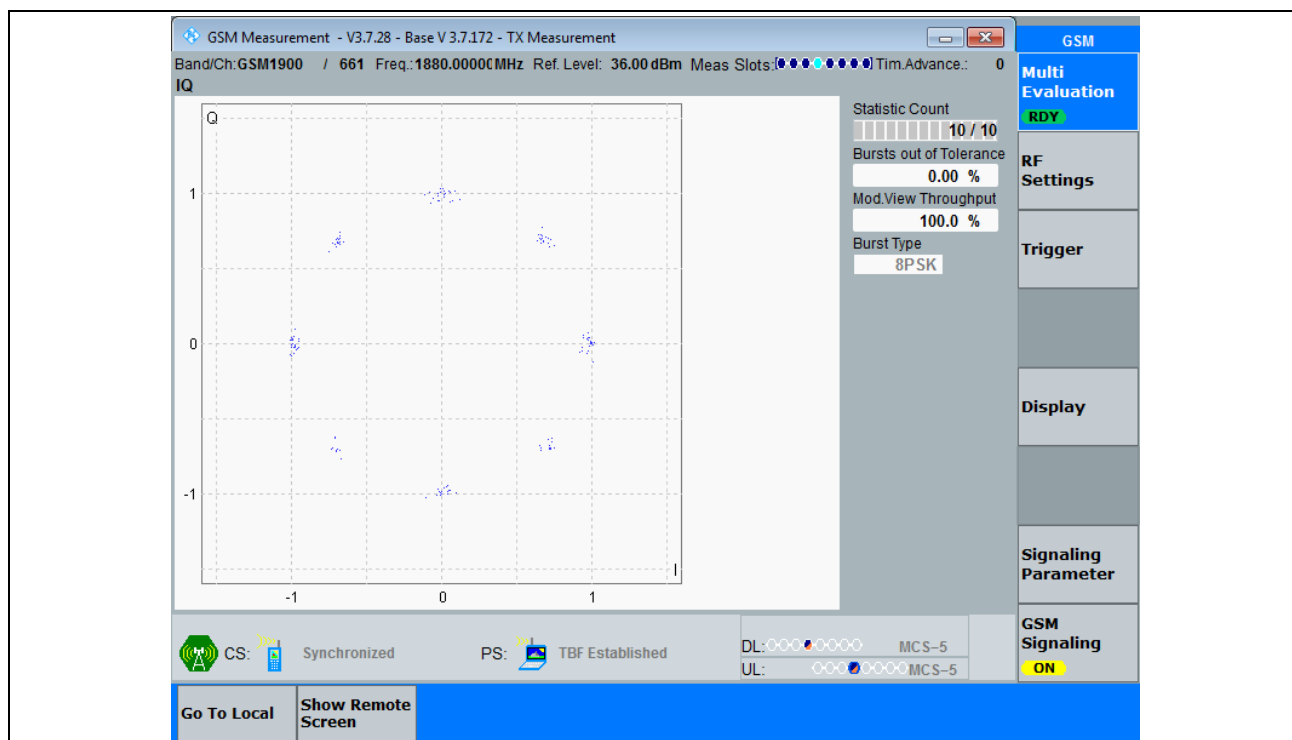
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3.1.2 Test Graph







4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

4.1.1 Test Result

| Band: PCS1900 | | | | | |
|---------------|---------|-----------|--------------------|------------------------------|---------|
| ENV | Mode | | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | GPRS | 1 TX Slot | 1850.2 | 0.244 | Pass |
| | | | 1880 | 0.249 | Pass |
| | | | 1909.8 | 0.239 | Pass |
| | EGPRS | 1 TX Slot | 1850.2 | 0.250 | Pass |
| | | | 1880 | 0.248 | Pass |
| | | | 1909.8 | 0.248 | Pass |



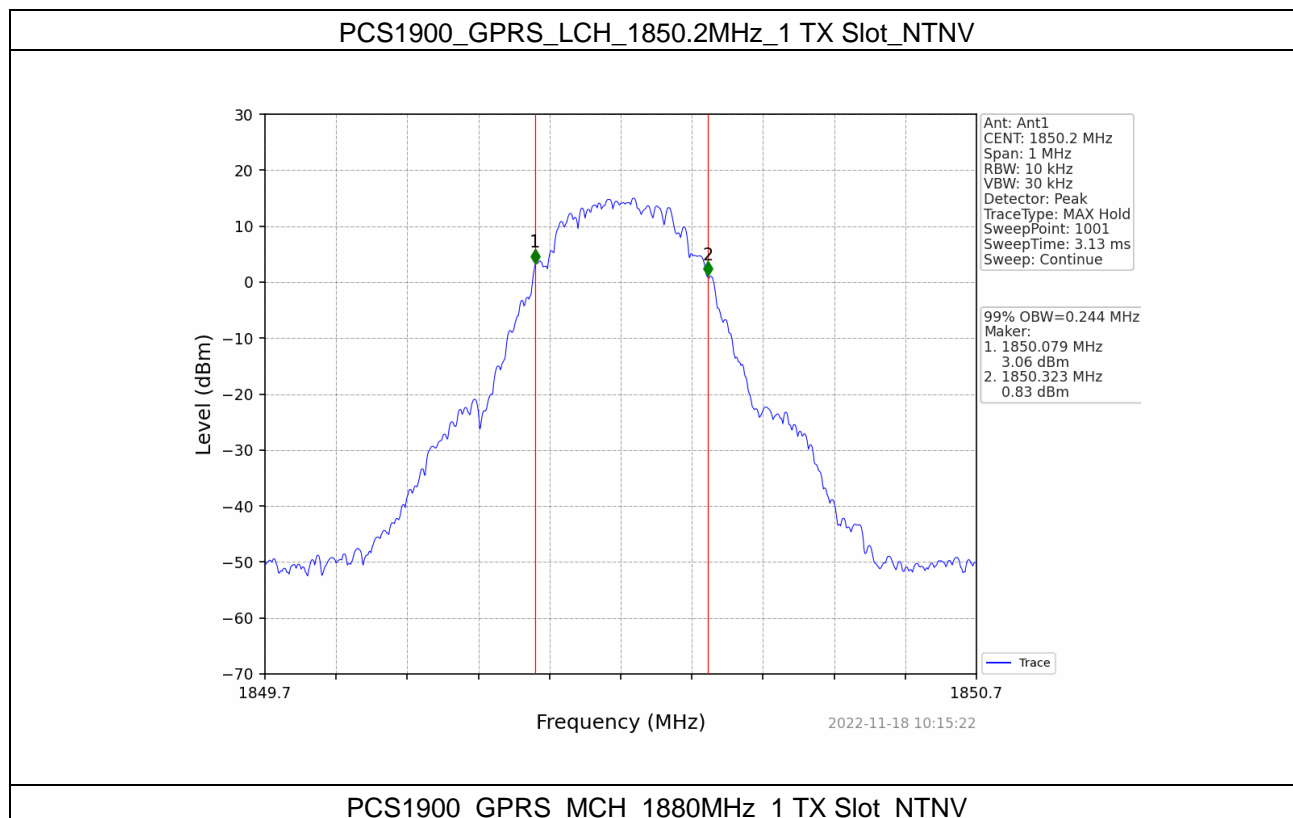
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4.1.2 Test Graph



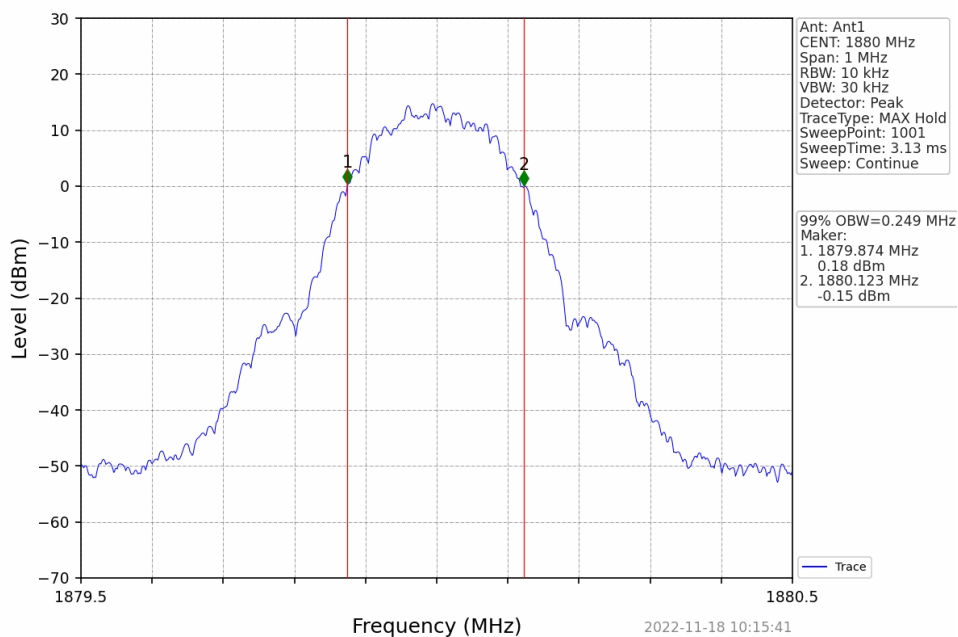
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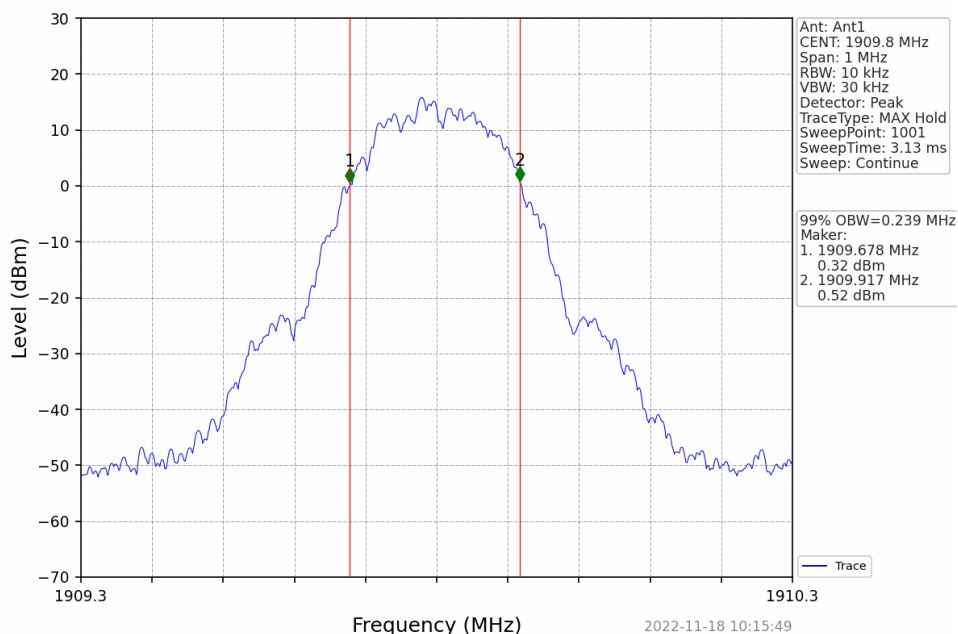
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PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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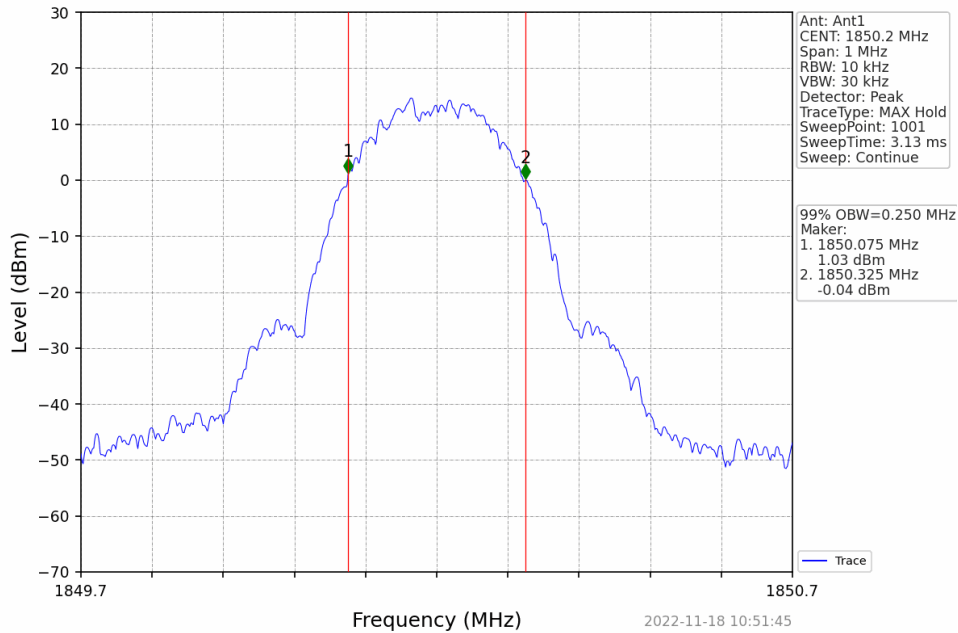
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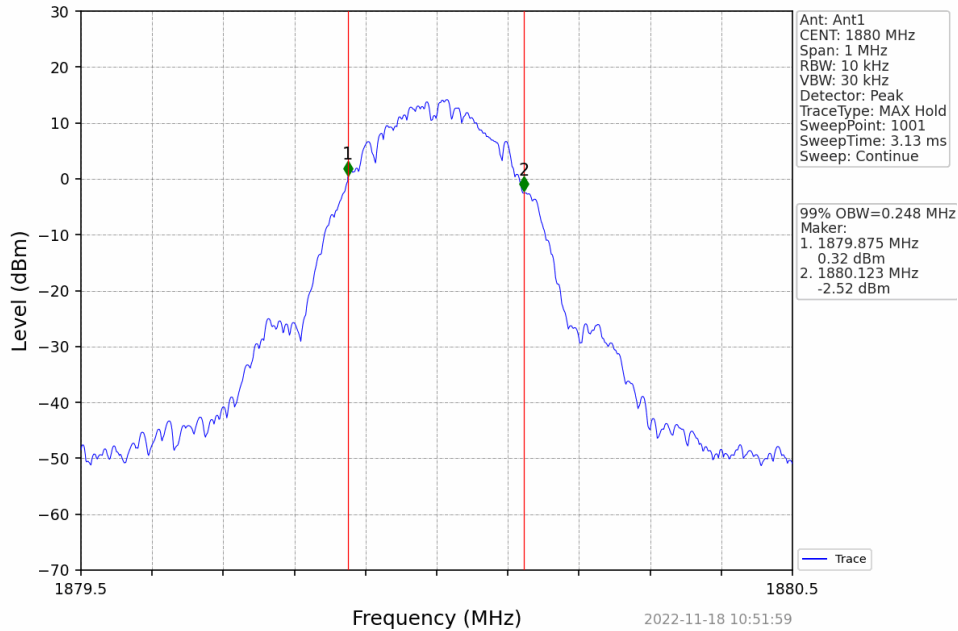
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



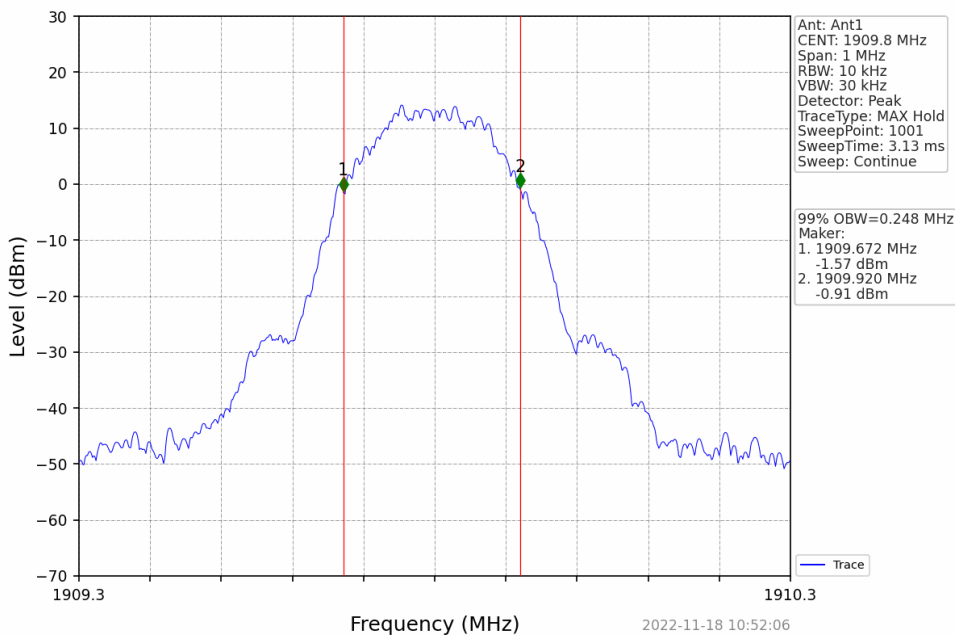
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4.2 PCS1900_XDB

4.2.1 Test Result

| Band: PCS1900 | | | | | |
|---------------|---------|-----------|--------------------|----------------------|---------|
| ENV | Mode | | Frequency (MHz) | 26dB Bandwidth (MHz) | Verdict |
| | Network | Subset | | Result | |
| NTNV | GPRS | 1 TX Slot | 1850.2 | 0.317 | Pass |
| | | | 1880 | 0.316 | Pass |
| | | | 1909.8 | 0.315 | Pass |
| | EGPRS | 1 TX Slot | 1850.2 | 0.318 | Pass |
| | | | 1880 | 0.319 | Pass |
| | | | 1909.8 | 0.319 | Pass |



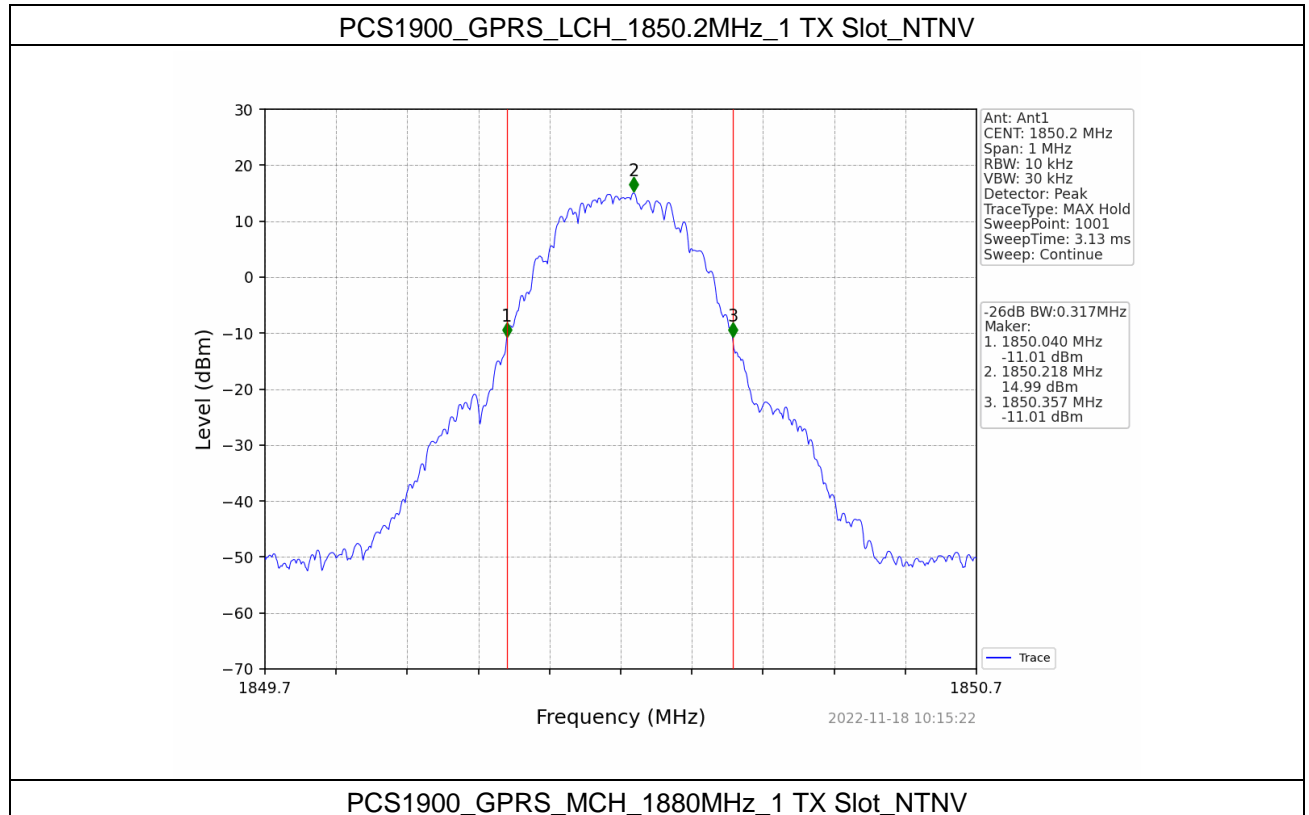
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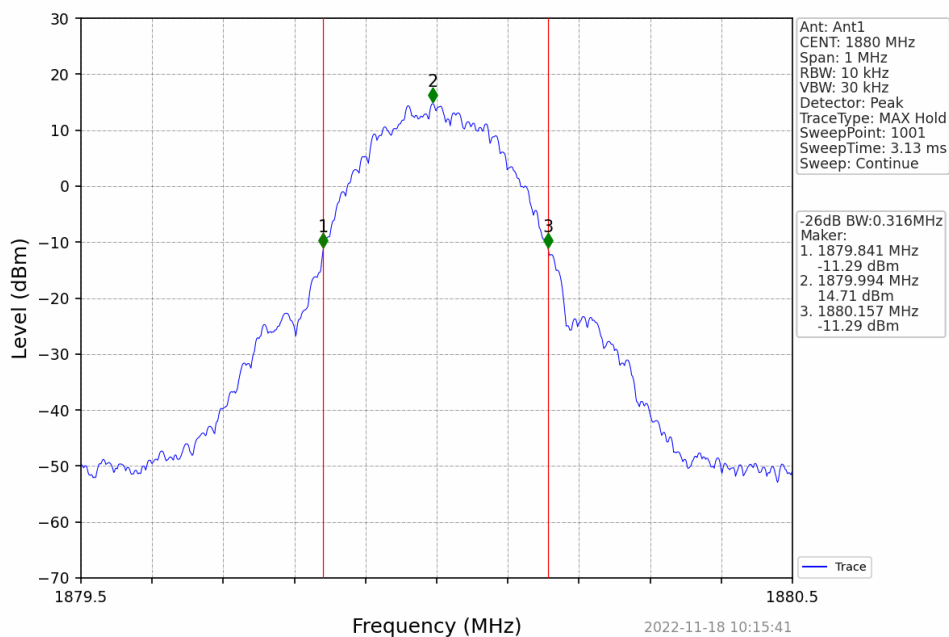
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4.2.2 Test Graph





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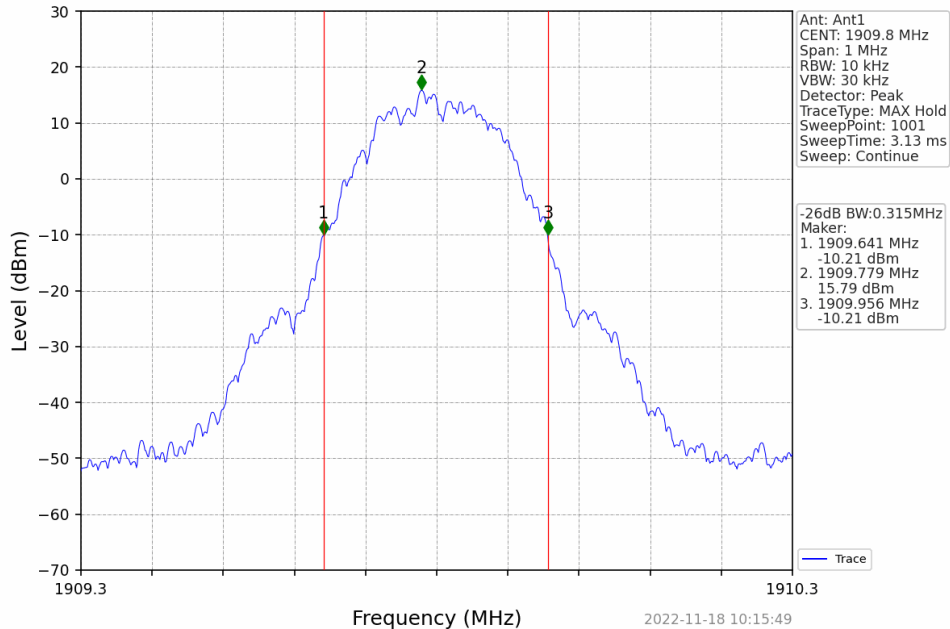
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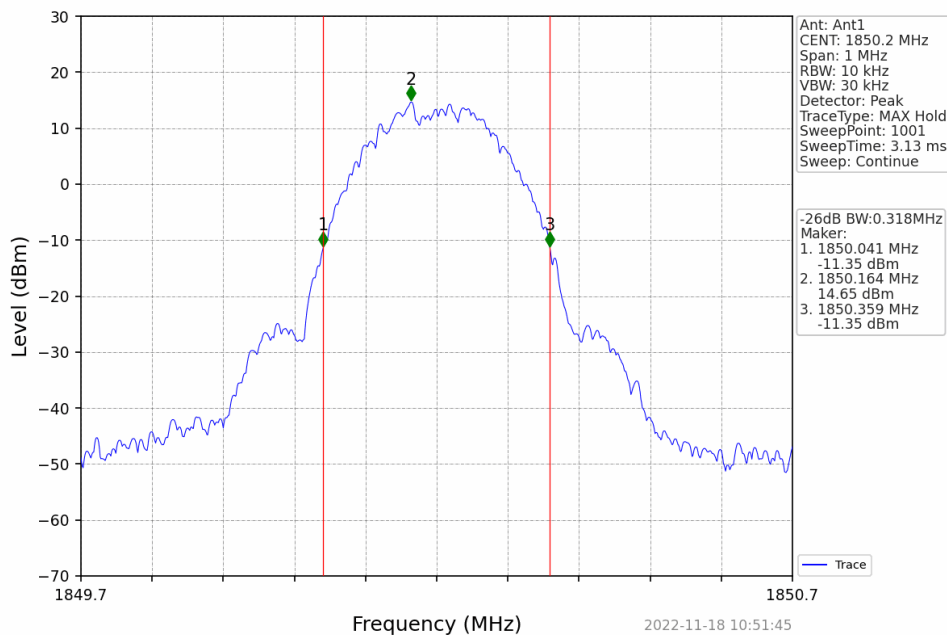
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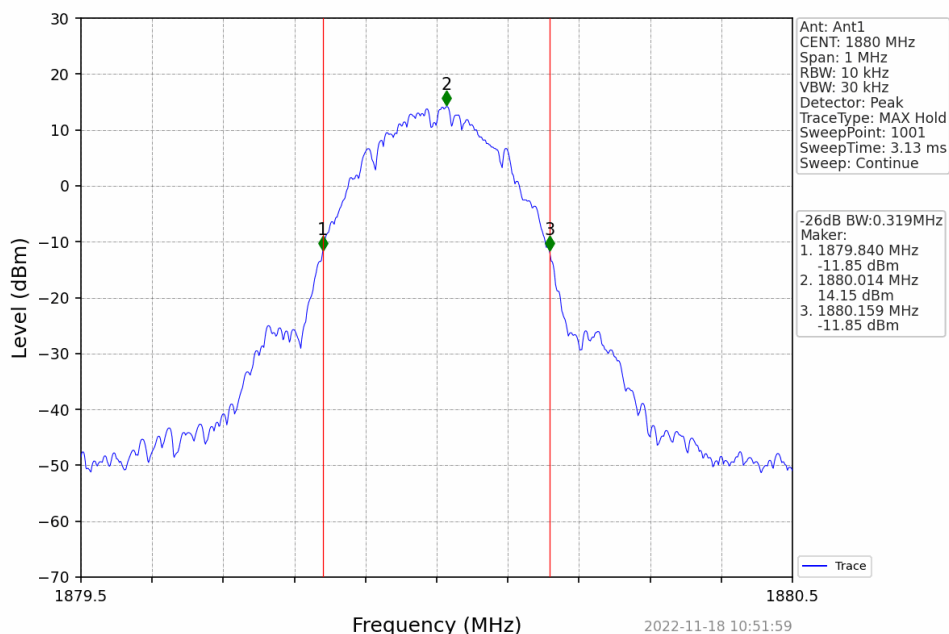
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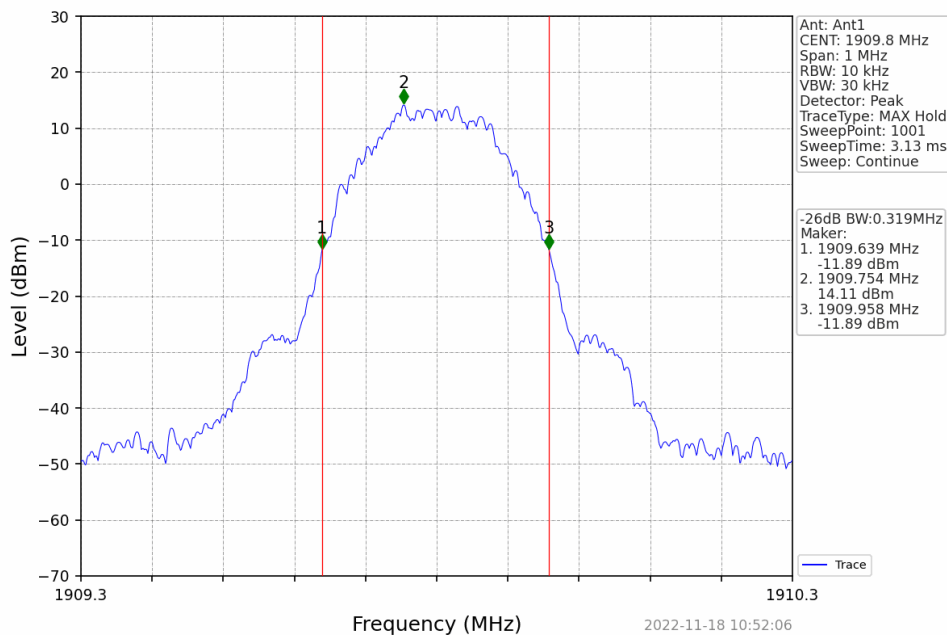
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5. Peak-Average Ratio

5.1 PCS1900

5.1.1 Test Result

| Band: PCS1900 | | | | | | |
|---------------|---------|------------|--------------------|-------------------------|-----------|---------|
| ENV | Mode | | Frequency (MHz) | Peak-Average Ratio (dB) | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GPRS | 4 TX Slots | 1850.2 | 9.66 | ≤ 13 | Pass |
| | | | 1880 | 9.70 | ≤ 13 | Pass |
| | | | 1909.8 | 4.00 | ≤ 13 | Pass |
| | EGPRS | 4 TX Slots | 1850.2 | 6.66 | ≤ 13 | Pass |
| | | | 1880 | 7.47 | ≤ 13 | Pass |
| | | | 1909.8 | 7.29 | ≤ 13 | Pass |



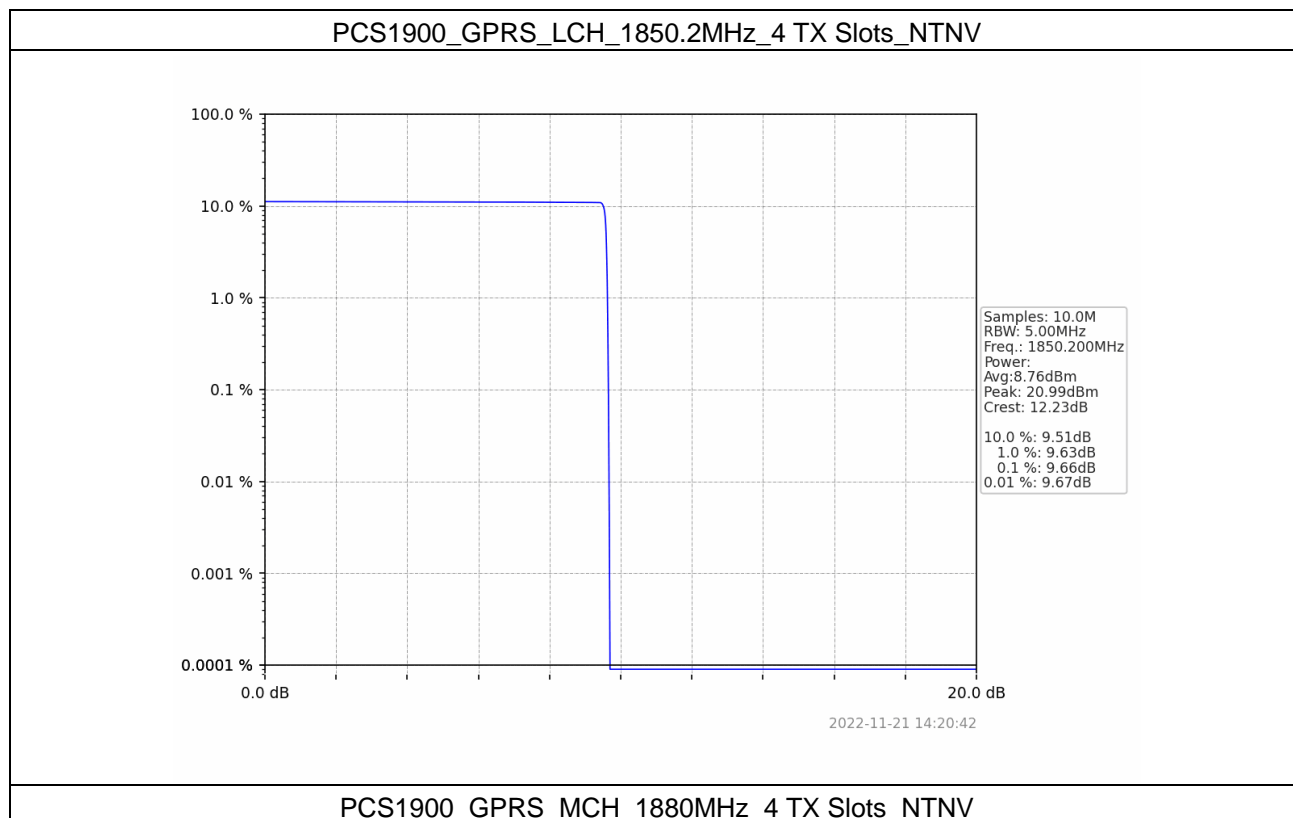
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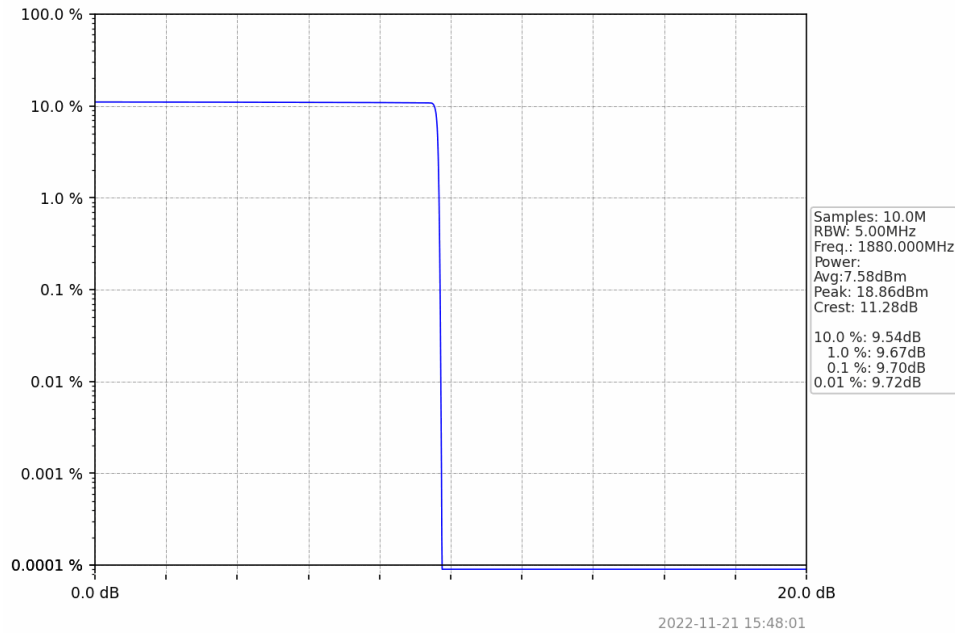
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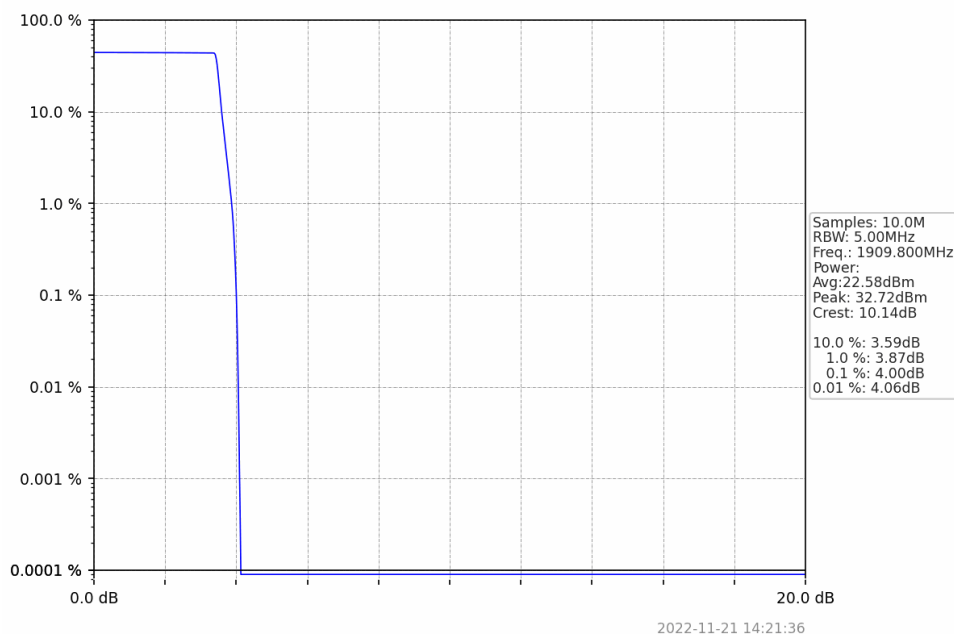
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5.1.2 Test Graph



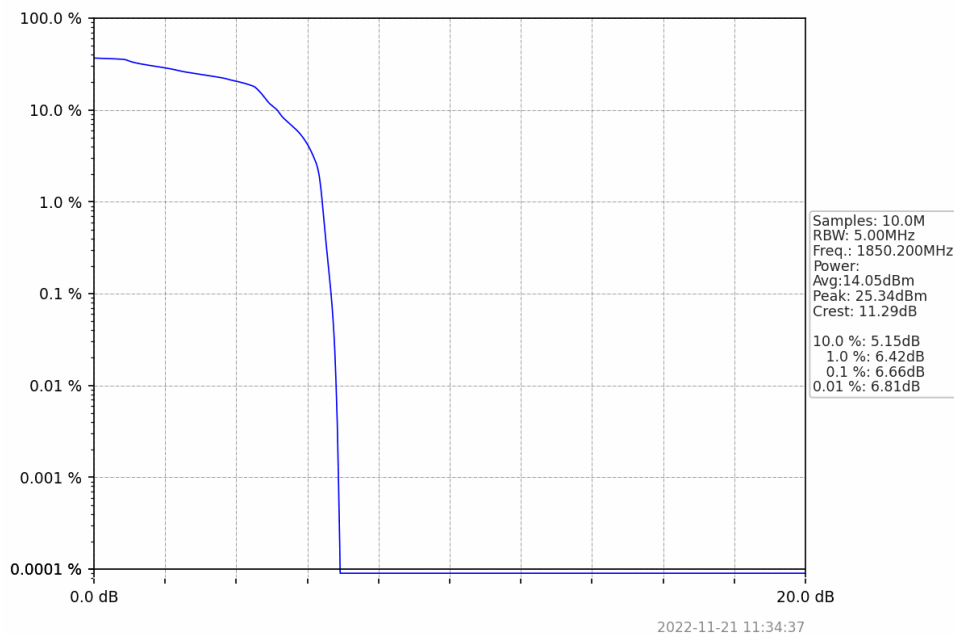


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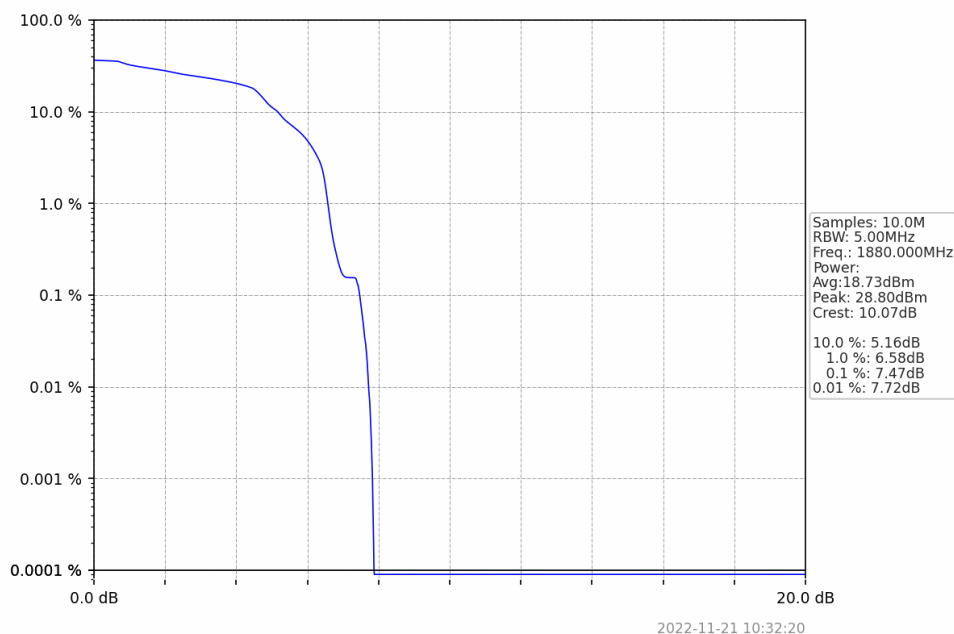


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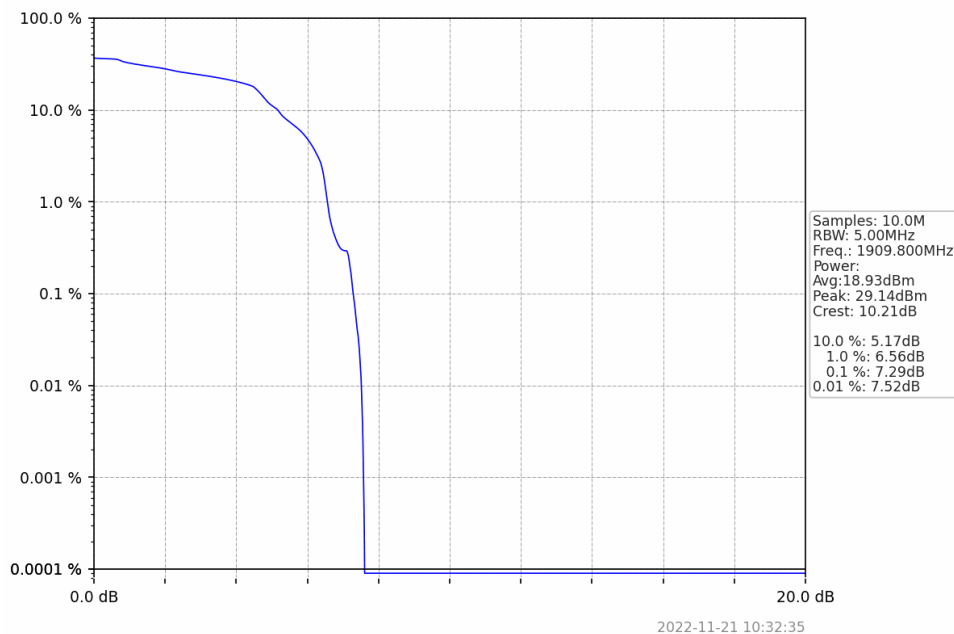


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6. Spurious Emission

6.1 PCS1900

6.1.1 Test Result

| Band: PCS1900 | | | | | | |
|---------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV | Mode | | Frequency (MHz) | Spurious Emission | | Verdict |
| | Network | Subset | | Result | Limit | |
| NTNV | GPRS | 1 TX Slot | 1850.2 | Refer To Test Graph | | Pass |
| | | | 1880 | Refer To Test Graph | | Pass |
| | | | 1909.8 | Refer To Test Graph | | Pass |
| | EGPRS | 1 TX Slot | 1850.2 | Refer To Test Graph | | Pass |
| | | | 1880 | Refer To Test Graph | | Pass |
| | | | 1909.8 | Refer To Test Graph | | Pass |



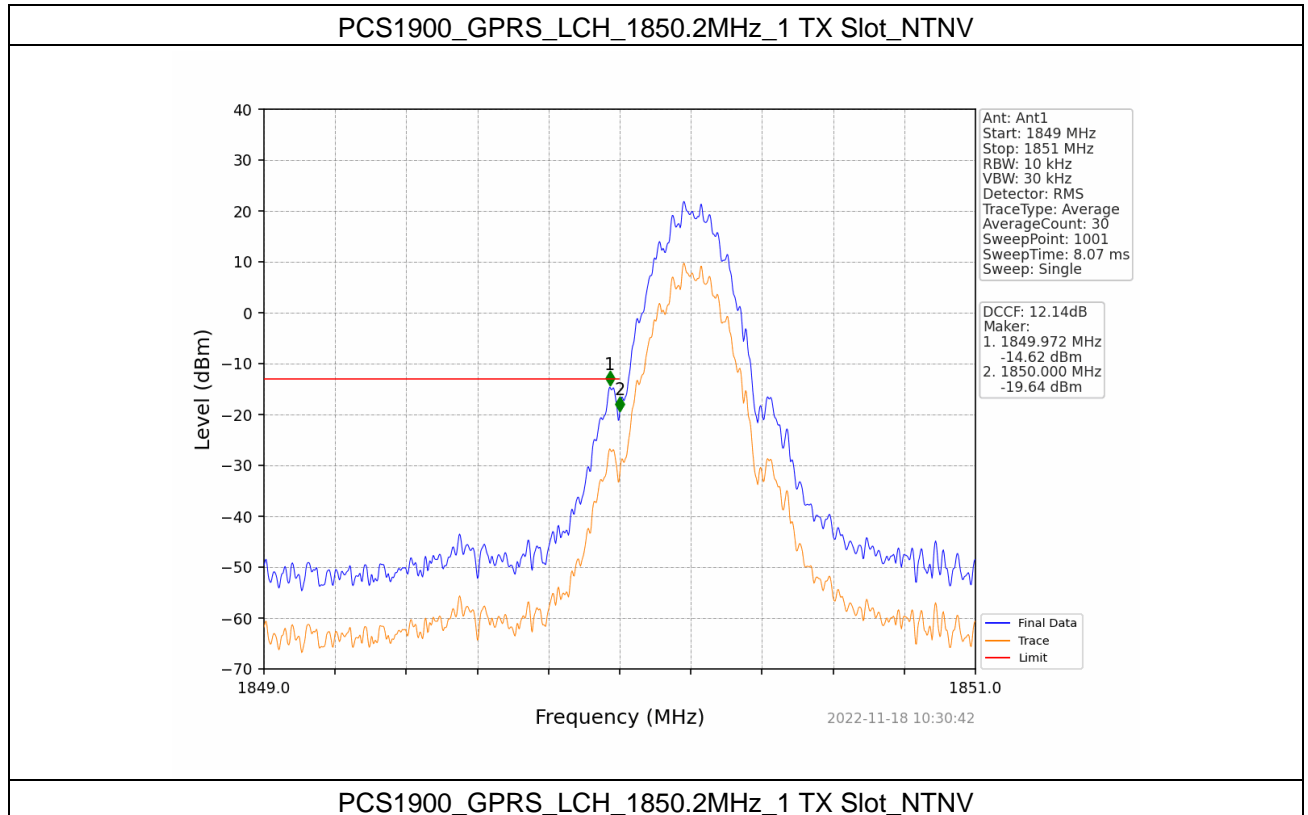
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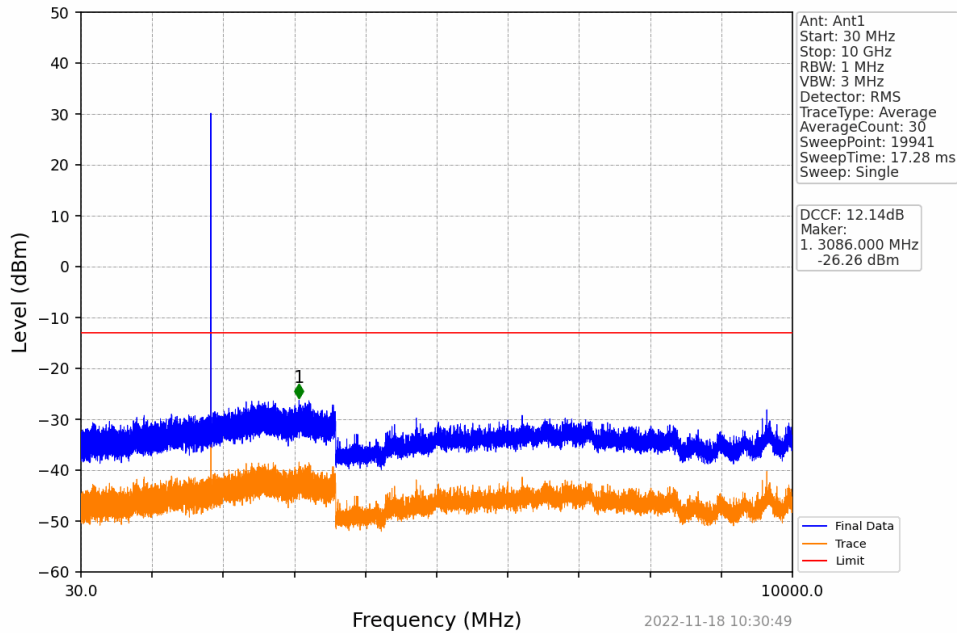
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6.1.2 Test Graph





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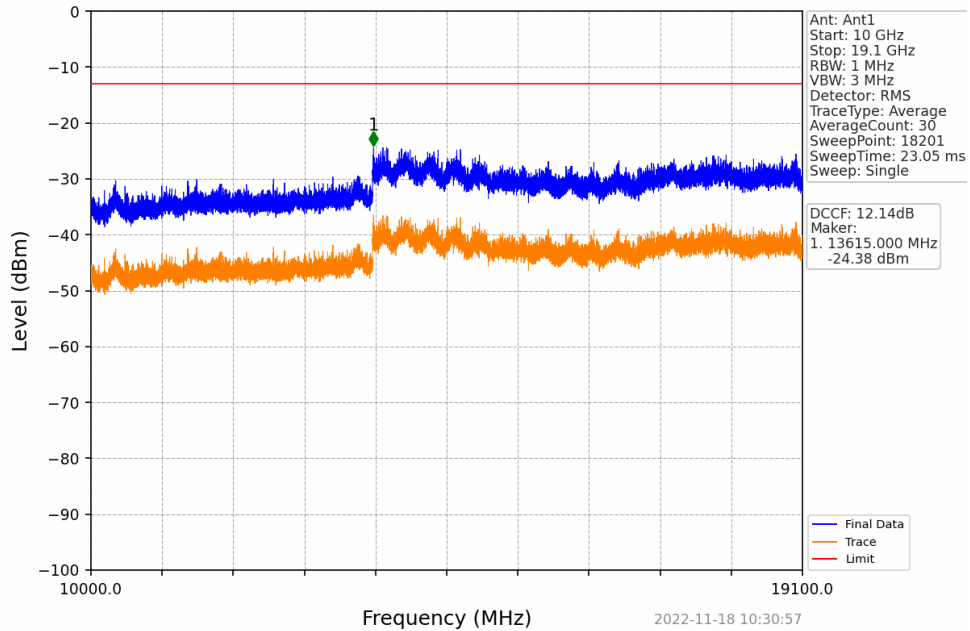
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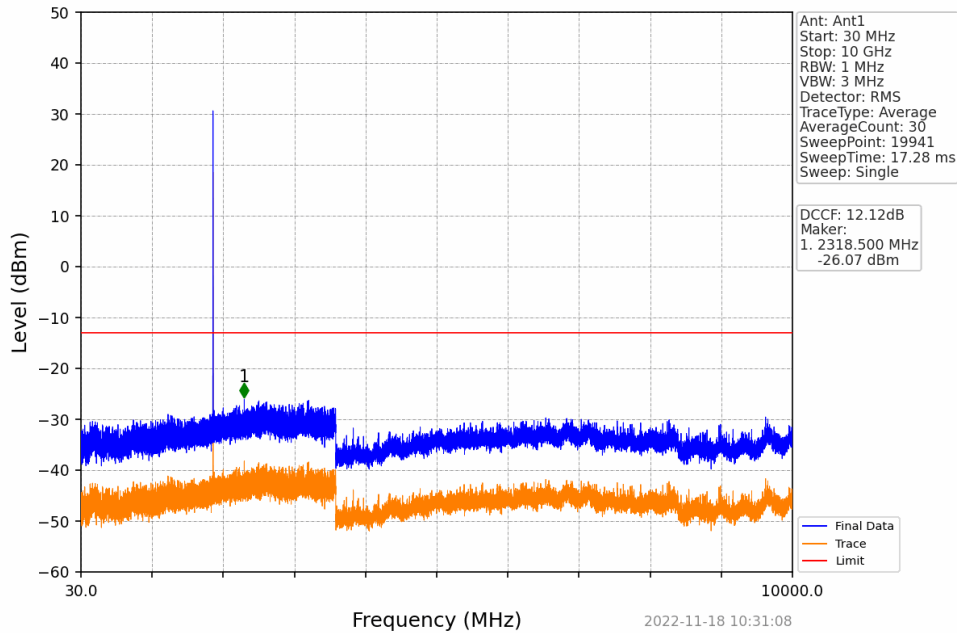
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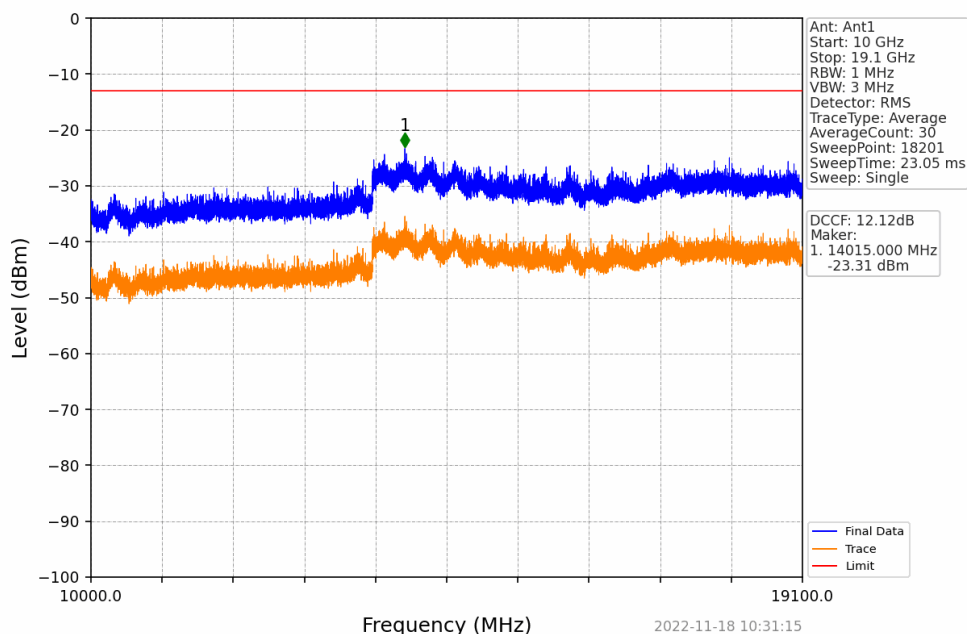
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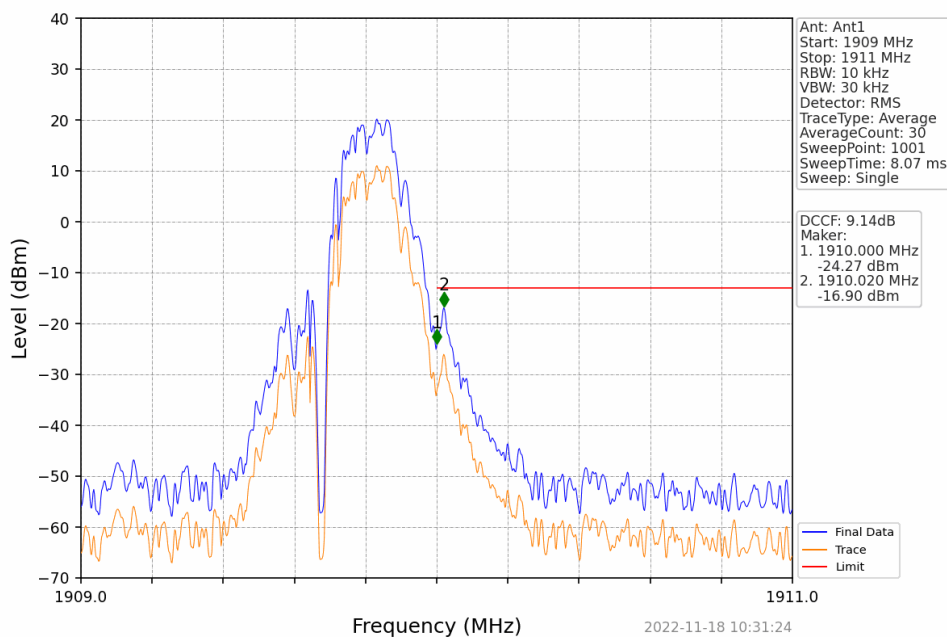


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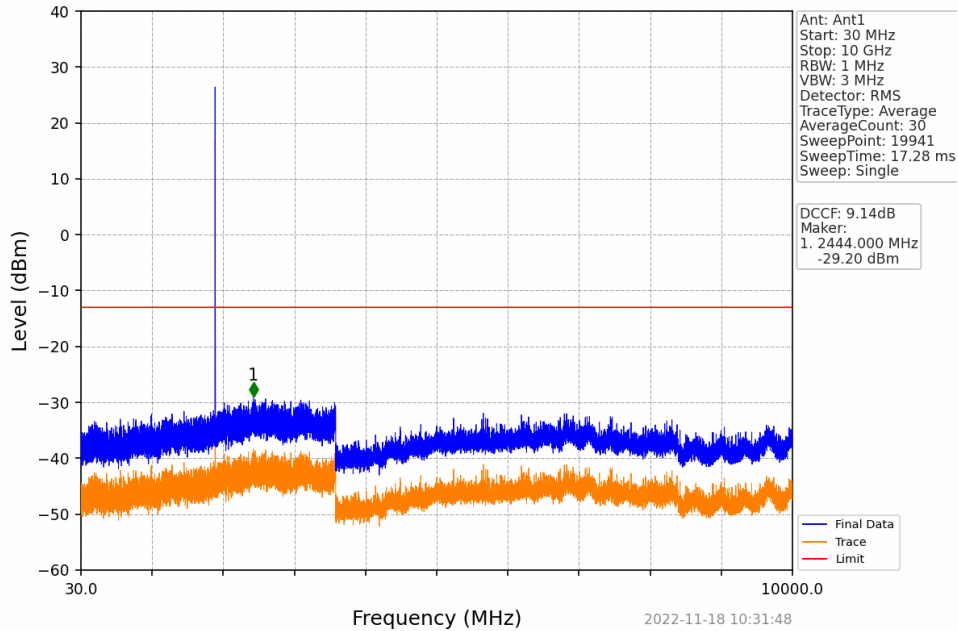
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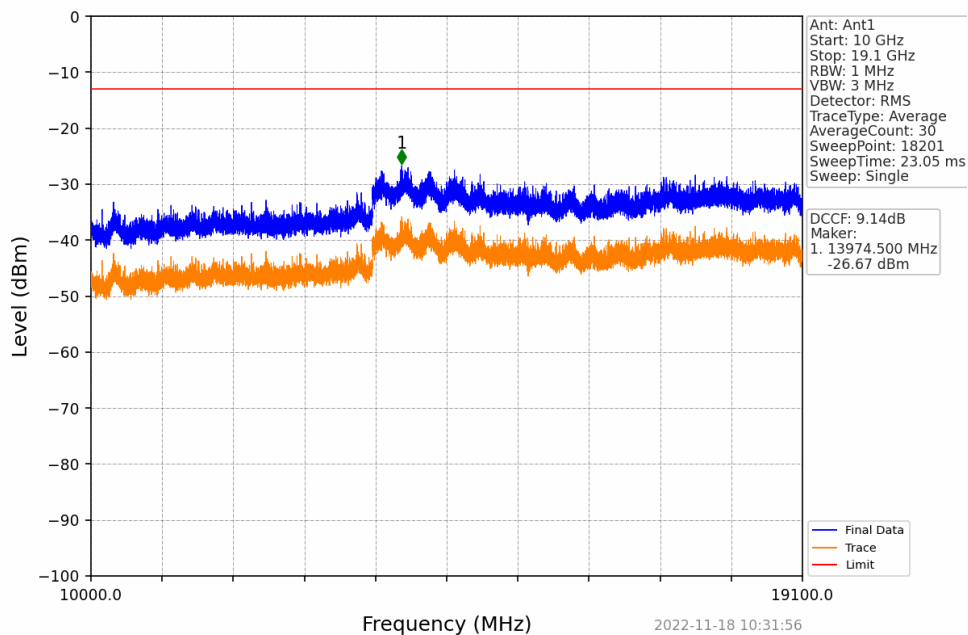
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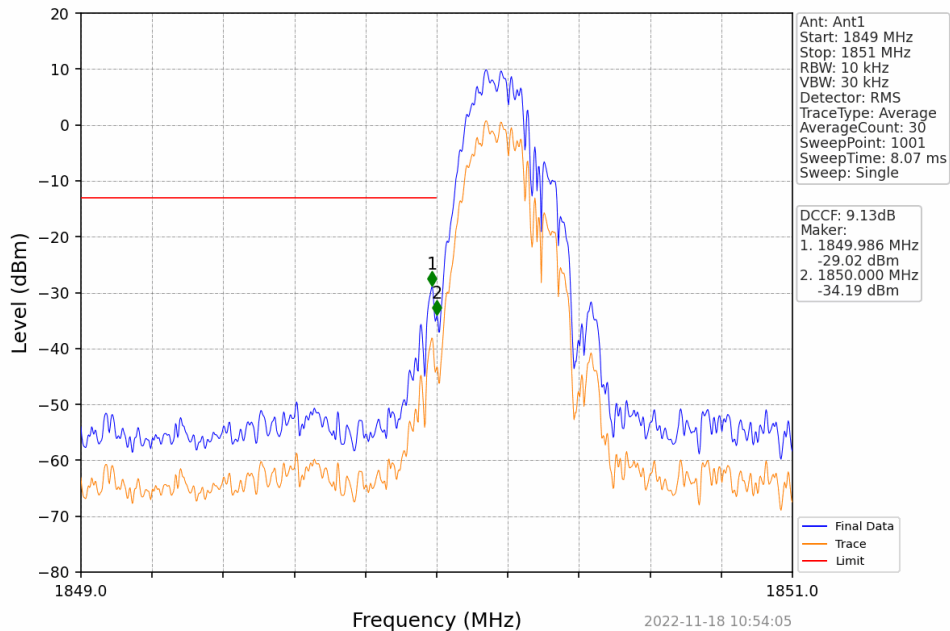


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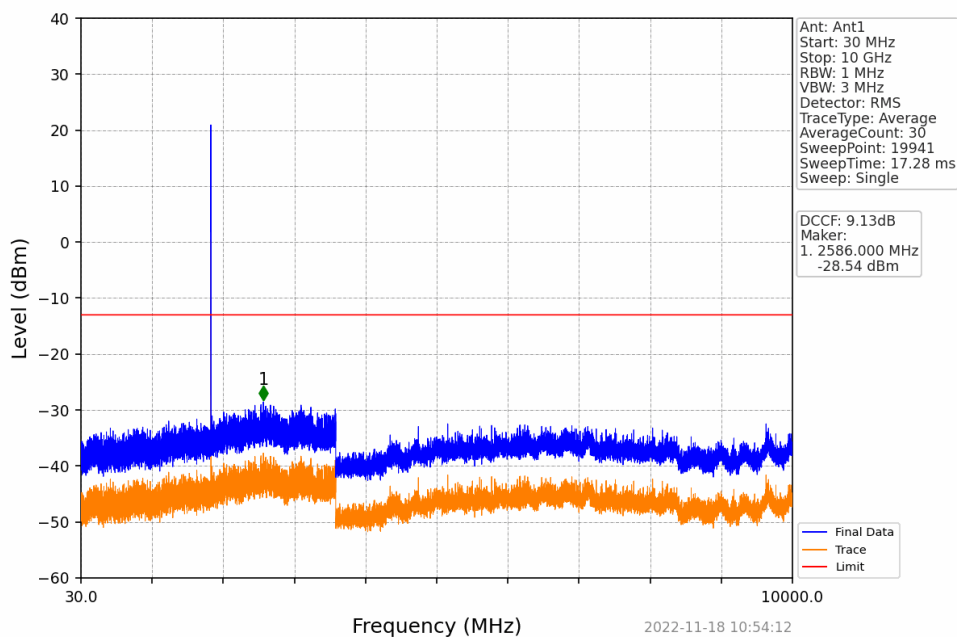


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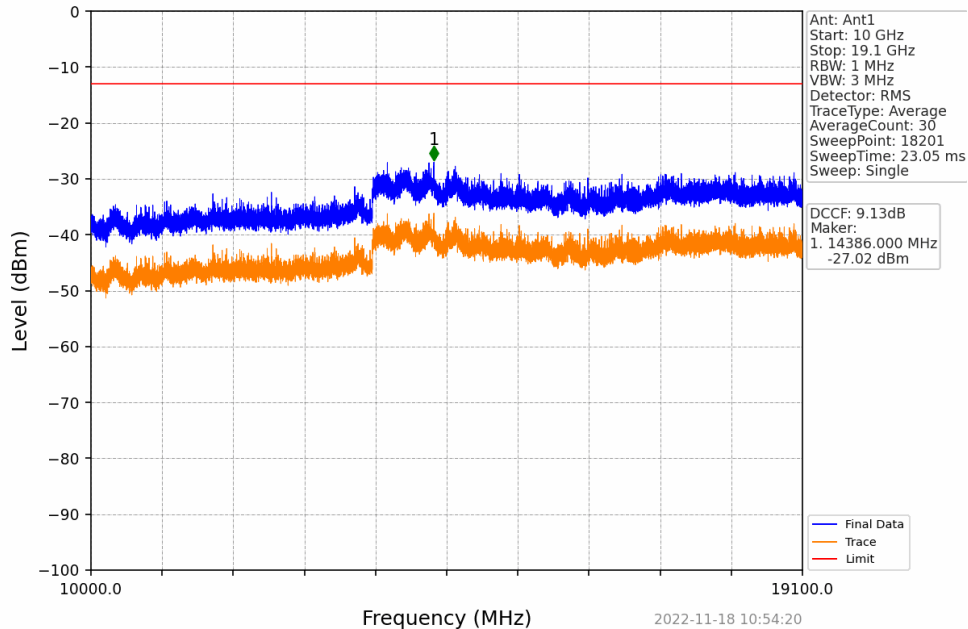
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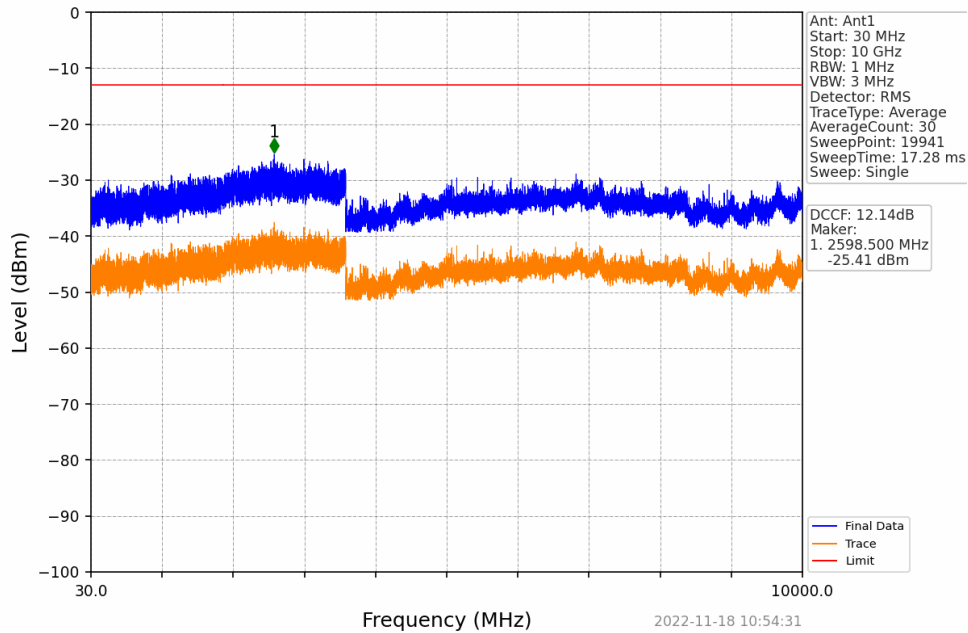
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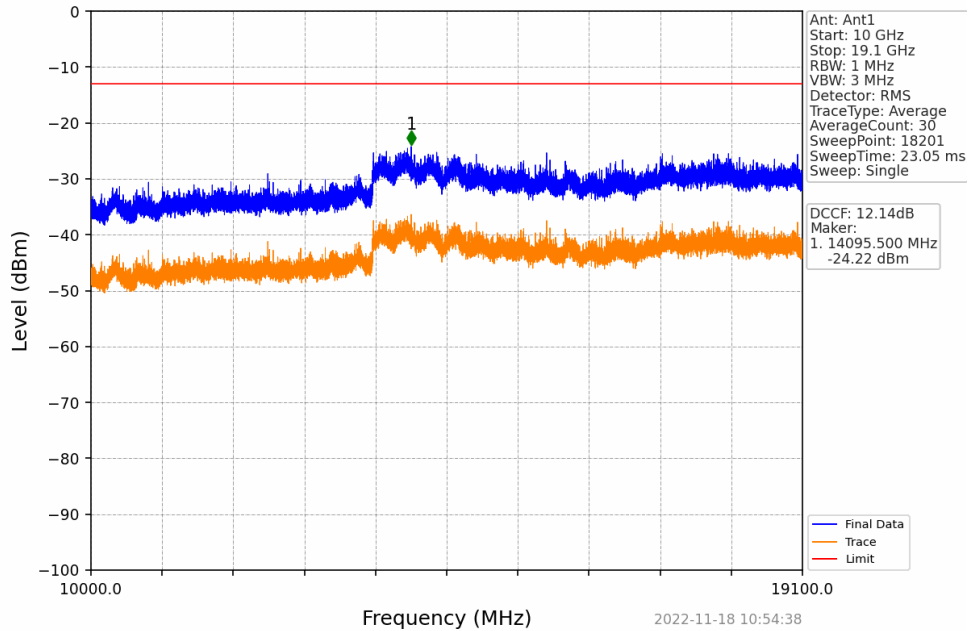
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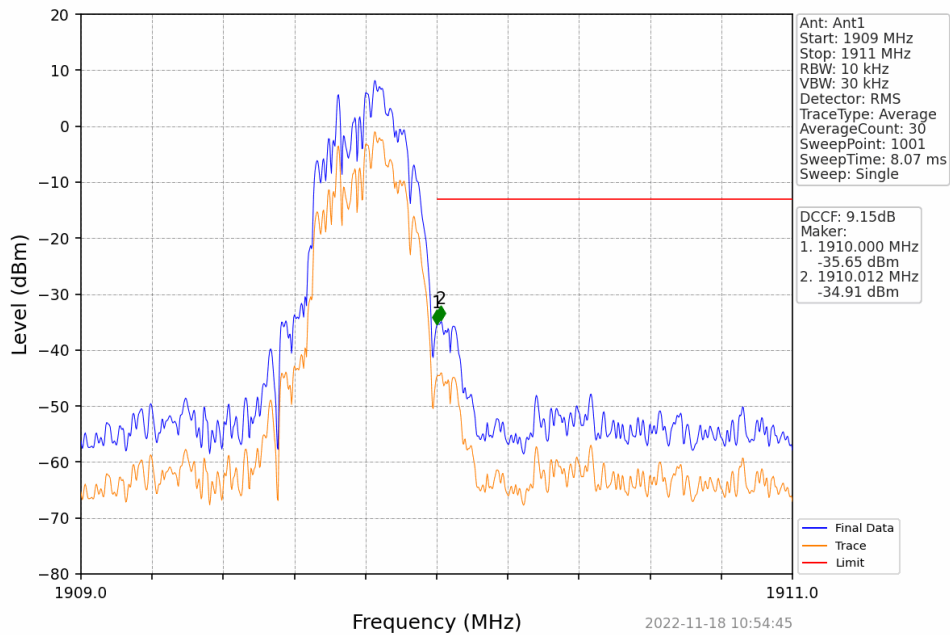


PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

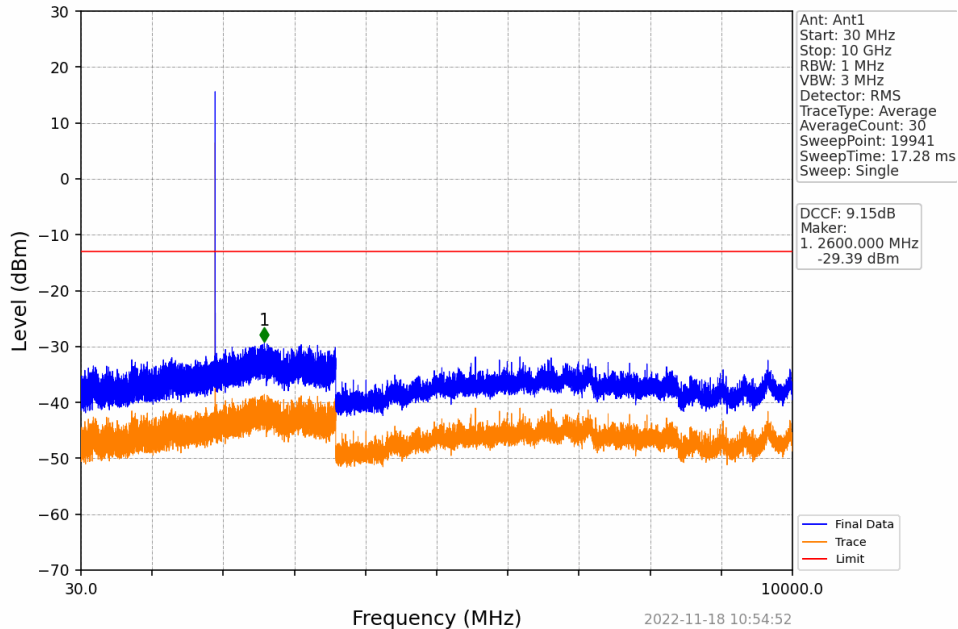




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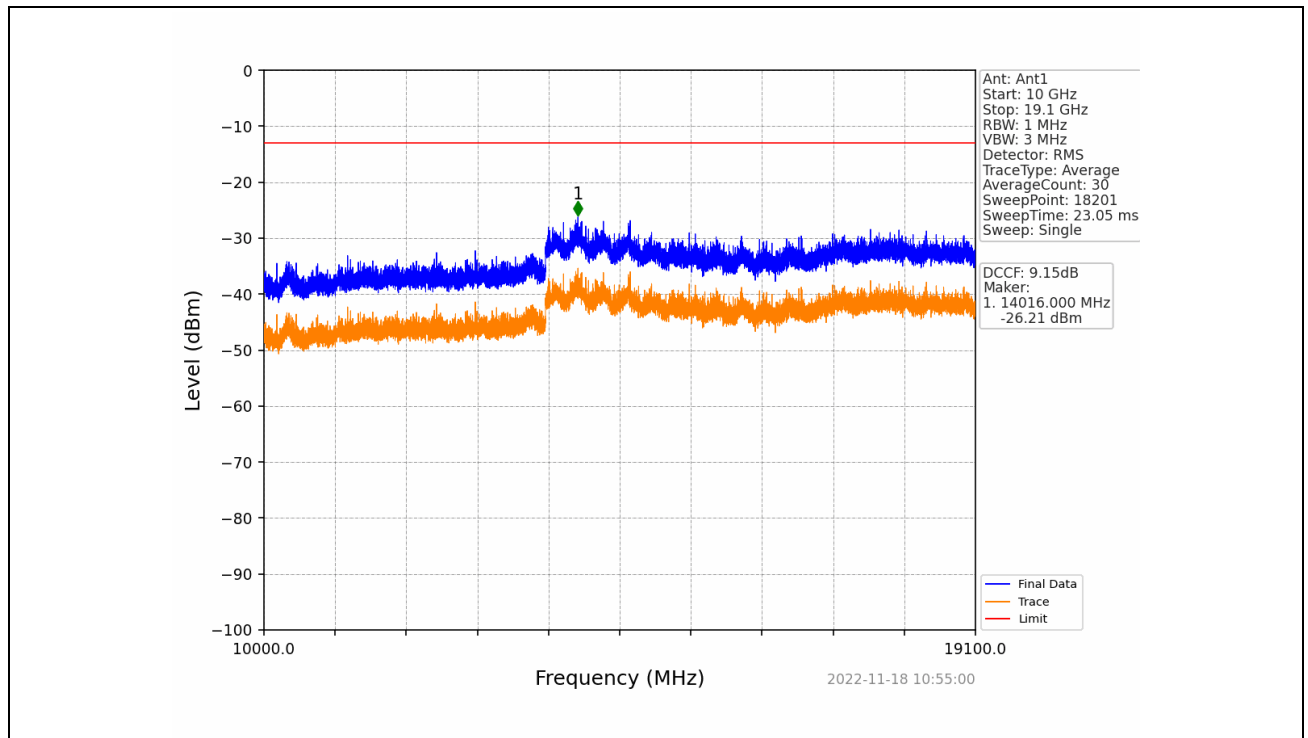
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





- End of the Report -



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