

|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| <b>Product Name:</b> Tablet                                        | <b>Report No:</b> ITEZA202300349RF6  |
| <b>Product Model:</b> R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra | <b>Security Classification:</b> Open |
| <b>Version:</b> V1.0                                               | <b>Total Page:</b> 247               |

## TIRT Testing Report

|                     |                    |                     |                                                                                       |
|---------------------|--------------------|---------------------|---------------------------------------------------------------------------------------|
| <b>Prepared By:</b> | <b>Checked By:</b> | <b>Approved By:</b> |  |
| Aaron Long          | Stone Tang         | Joky Wang           |                                                                                       |
| <i>Aaron Long</i>   | <i>Stone Tang</i>  | <i>Joky Wang</i>    |                                                                                       |

# RF TEST REPORT

**FCC ID: 2AX4YR08**

According to

**FCC CFR Title 47 Part 2**  
**FCC CFR Title 47 Part 22 Subpart H**  
**FCC CFR Title 47 Part 24 Subpart E**  
**FCC CFR Title 47 Part 27**

Equipment : Tablet  
Model No. : R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra  
Trademark : DOOGEE  
Applicant : Shenzhen DOOGEE Hengtong Technology CO.,LTD  
B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22,  
Longhua New District, Shenzhen, China

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.
- Test date: 2023/11/07~2023/11/15

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

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# History of this test report

Original Report Issue Date: 2023.11.21

- No additional attachment
- Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
|----------------|------------|-------------|
|                |            |             |
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## 1 Test Summary

| Test Item                              | Section in CFR 47                                                     | Result                                |
|----------------------------------------|-----------------------------------------------------------------------|---------------------------------------|
| RF Exposure (SAR)                      | Part 1.1307<br>Part 2.1093                                            | Pass*<br>(Please refer to SAR Report) |
| RF Output Power                        | Part 2.1046<br>Part 22.913 (a)(2)<br>Part 24.232 (c)<br>Part 27.50(d) | Pass                                  |
| Peak-to-Average Ratio                  | Part 2.1046<br>Part 24.232 (d)<br>Part 27.50(d)                       | Pass                                  |
| Modulation Characteristics             | Part 2.1047                                                           | Pass                                  |
| 99% & -26 dB Occupied Bandwidth        | Part 2.1049<br>Part 22.917<br>Part 24.238                             | Pass                                  |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(g)    | Pass                                  |
| Field Strength of Spurious Radiation   | Part 2.1053<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(g)    | Pass                                  |
| Out of band emission, Band Edge        | Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53(g)                   | Pass                                  |
| Frequency stability vs. temperature    | Part 2.1055(a)(1)(b)<br>Part 27.54                                    | Pass                                  |
| Frequency stability vs. voltage        | Part 2.1055(d)(1)(2)<br>Part 27.54                                    | Pass                                  |

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

2. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

## 2 General Information

### 2.1 General Description of EUT

|              |                                                                                               |
|--------------|-----------------------------------------------------------------------------------------------|
| EUT Name     | : Tablet                                                                                      |
| Model No.    | : R08, R08 Pro, R08S, R08T, R08 Max, R08 Ultra                                                |
| DIFF.        | : There is no difference except the name of the model. All tests are made with the R08 model. |
| Power supply | : DC 3.8V from battery or DC5V from adapter                                                   |

|                  |                                                                                                                                                                                                                                                                                                                                                               |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Support Networks | : GSM, GPRS, EGPRS, WCDMA                                                                                                                                                                                                                                                                                                                                     |
| Support Bands    | : GSM850, PCS1900, WCDMA Band V, WCDMA Band IV, WCDMA Band II                                                                                                                                                                                                                                                                                                 |
| TX Frequency     | : GSM850: 824.20MHz-848.80MHz<br>PCS1900: 1850.20MHz-1909.80MHz<br>WCDMA Band V: 826.40MHz -846.60MHz<br>WCDMA Band II: 1852.40MHz -1907.60MHz<br>WCDMA Band IV: 1712.4 MHz -1752.6MHz                                                                                                                                                                        |
| GPRS Class       | : 12                                                                                                                                                                                                                                                                                                                                                          |
| EGPRS Class      | : 12                                                                                                                                                                                                                                                                                                                                                          |
| Modulation type  | : GSM/GPRS: GMSK<br>EGPRS: GMSK/8PSK<br>WCDMA Band II/IV/V: QPSK                                                                                                                                                                                                                                                                                              |
| Antenna type     | : PIFA antenna                                                                                                                                                                                                                                                                                                                                                |
| Antenna gain     | : Maximum Gain is -2.1dBi for GSM 850<br>Maximum Gain is 0.8dBi for PCS1900<br>Maximum Gain is -2.1dBi for WCDMA Band V<br>Maximum Gain is 1.1dBi for WCDMA Band IV<br>Maximum Gain is 0.8dBi for WCDMA Band II<br>Antenna information is provided by applicant.<br>There is WWAN diversity antenna inside the product, which is only for receiving function. |
| Software version | : DOOGEE-R08-EEA-Android13.0-20231109                                                                                                                                                                                                                                                                                                                         |
| Hardware version | : WT_P101_8788_BJJ_MB_V0.1_20230920                                                                                                                                                                                                                                                                                                                           |

Remark: 1.The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 2G and 3G function, and there is no other transmitter involved.

**Operation Frequency List:**

| GSM 850 |                 | PCS1900 |                 | WCDMA Band V |                 | WCDMA Band II |                 |
|---------|-----------------|---------|-----------------|--------------|-----------------|---------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel      | Frequency (MHz) | Channel       | Frequency (MHz) |
| 128     | 824.20          | 512     | 1850.20         | 4132         | 826.40          | 9262          | 1852.40         |
| 129     | 824.40          | 513     | 1850.40         | 4133         | 826.60          | 9263          | 1852.60         |
| · ∴     | · ∴             | · ∴     | · ∴             | · ∴          | · ∴             | · ∴           | · ∴             |
| 189     | 836.40          | 660     | 1879.80         | 4181         | 836.20          | 9399          | 1879.80         |
| 190     | 836.60          | 661     | 1880.00         | 4182         | 836.40          | 9400          | 1880.00         |
| 191     | 836.80          | 662     | 1880.20         | 4183         | 836.60          | 9401          | 1880.20         |
| · ∴     | · ∴             | · ∴     | · ∴             | · ∴          | · ∴             | · ∴           | · ∴             |
| 250     | 848.60          | 809     | 1909.60         | 4232         | 846.40          | 9537          | 1907.40         |
| 251     | 848.80          | 810     | 1909.80         | 4233         | 846.60          | 9538          | 1907.60         |

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

**Final test channel:**

| GSM 850       |                 | PCS1900         |                 | WCDMA Band V |                 | WCDMA Band II |                 |
|---------------|-----------------|-----------------|-----------------|--------------|-----------------|---------------|-----------------|
| Channel       | Frequency (MHz) | Channel         | Frequency (MHz) | Channel      | Frequency (MHz) | Channel       | Frequency (MHz) |
| 128           | 824.20          | 512             | 1850.20         | 4132         | 826.40          | 9262          | 1852.40         |
| 190           | 836.60          | 661             | 1880.00         | 4183         | 836.60          | 9400          | 1880.00         |
| 251           | 848.80          | 810             | 1909.80         | 4233         | 846.60          | 9538          | 1907.60         |
| WCDMA Band IV |                 |                 |                 |              |                 |               |                 |
| Channel       |                 | Frequency (MHz) |                 |              |                 |               |                 |
| 1312          |                 | 1712.4          |                 |              |                 |               |                 |
| 1450          |                 | 1740.0          |                 |              |                 |               |                 |
| 1513          |                 | 1752.6          |                 |              |                 |               |                 |

## 2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

## 2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 2.4 Test Facility

|                                         |                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company:                                | Beijing TIRT Technology Service Co.,Ltd Shenzhen                                                                                                                          |
| Address:                                | 104 Building C, Xinmingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China |
| CNAS Registration Number:               | CNAS L14158                                                                                                                                                               |
| A2LA Registration Number:               | 6049.01                                                                                                                                                                   |
| FCC Accredited Lab. Designation Number: | CN1366                                                                                                                                                                    |
| FCC Test Firm Registration Number:      | 820690                                                                                                                                                                    |
| Telephone:                              | +86-0755-27087573                                                                                                                                                         |

## 2.5 Measurement Uncertainty

| Uncertainty                               |                           |
|-------------------------------------------|---------------------------|
| Parameter                                 | Uncertainty               |
| Occupied Channel Bandwidth                | $\pm 142.12$ KHz          |
| RF power conducted                        | $\pm 0.74$ dB             |
| RF power radiated                         | $\pm 3.25$ dB             |
| Spurious emissions, conducted             | $\pm 1.78$ dB             |
| Spurious emissions, radiated (9KHz~30MHz) | $\pm 2.56$ dB             |
| Spurious emissions, radiated (30MHz~1GHz) | $\pm 4.6$ dB              |
| Spurious emissions, radiated (Above 1GHz) | $\pm 4.9$ dB              |
| Conduction Emissions(150kHz~30MHz)        | $\pm 3.1$ dB              |
| Humidity                                  | $\pm 4.6\%$               |
| Temperature                               | $\pm 0.7^{\circ}\text{C}$ |
| Time                                      | $\pm 1.25\%$              |

### 3 Test Instruments list

| No. | Equipment                 | Manufacturer   | Type No.         | Serial No.         | Cal. date<br>(yyyy/mm/dd) | Cal. Due date<br>(yyyy/mm/dd) |
|-----|---------------------------|----------------|------------------|--------------------|---------------------------|-------------------------------|
| 1   | EMI Receiver              | Rohde&Schwarz  | ESCI             | 100718             | 2023/11/09                | 2024/11/10                    |
| 2   | AMN                       | Rohde&Schwarz  | ENV216           | 100075             | 2023/11/09                | 2024/11/10                    |
| 3   | AMN                       | Schwarzbeck    | NSLK8127         | #829               | 2023/11/09                | 2024/11/10                    |
| 4   | ECSI RF IN RF<br>Cable    | Rohde&Schwarz  | RP-X1            | \                  | 2023/11/17                | 2024/11/16                    |
| 5   | ECSI RF IN RF<br>Cable    | Rohde&Schwarz  | Sapre sm         | \                  | 2023/11/09                | 2024/11/10                    |
| 6   | EMI Receiver              | Rohde&Schwarz  | ESR7             | 102013             | 2023/11/09                | 2024/11/10                    |
| 7   | Spectrum analyzer         | Rohde&Schwarz  | FSV30            | 103741             | 2023/11/09                | 2024/11/10                    |
| 8   | Spectrum analyzer         | KEYSIGHT       | N9010A           | MY51440158         | 2023/11/09                | 2024/11/10                    |
| 9   | Integral Antenna          | Schwarzbeck    | VULB 9163        | 9163-868           | 2022/12/25                | 2023/12/24                    |
| 10  | Integral Antenna          | Schwarzbeck    | BBHA 9120D       | BBHA 9120D<br>1201 | 2023/11/09                | 2024/11/10                    |
| 11  | Integral Antenna          | Schwarzbeck    | BBHA 9170        | 9170#685           | 2023/11/06                | 2024/11/10                    |
| 12  | Preamplifier              | CD Systems Inc | PAP-03036-<br>30 | 85060000           | 2023/11/09                | 2024/11/10                    |
| 13  | Preamplifier              | Schwarzbeck    | BBV9721          | 9721-019           | 2023/11/09                | 2024/11/10                    |
| 14  | Preamplifier              | emci           | EMC012645<br>SE  | 980417             | 2023/11/09                | 2024/11/10                    |
| 15  | ECSI RF IN RF<br>Cable    | Rohde&Schwarz  | AP-X1            | \                  | 2023/11/09                | 2024/11/10                    |
| 16  | Spectrum Analyzer         | Agilent        | N9010A           | MY52221119         | 2023/11/09                | 2024/11/10                    |
| 17  | Power Collection<br>Unit  | Tonscend       | JS0806-2         | 188060134          | 2023/09/12                | 2024/09/11                    |
| 18  | Tonscend Test<br>System   | Tonscend       | 2.6.77.0518      | NA                 | NA                        | NA                            |
| 19  | Power Sensor              | Agilent        | U2021XA          | MY55410011         | 2023/09/12                | 2024/09/11                    |
| 20  | Power Sensor              | Agilent        | U2021XA          | MY55410012         | 2023/09/12                | 2024/09/11                    |
| 21  | Power Sensor              | Agilent        | U2021XA          | MY55410018         | 2023/09/12                | 2024/09/11                    |
| 22  | Power Sensor              | Agilent        | U2021XA          | MY55410019         | 2023/09/12                | 2024/09/11                    |
| 23  | Temp&Humidity<br>Recorder | Anymetre       | JR900            | NA                 | 2023/11/03                | 2024/11/02                    |
| 24  | Temp&Humidity<br>Chamber  | ETOMA          | NTH1100-<br>30A  | 16080628           | 2023/09/01                | 2024/08/30                    |

## 4 System test configuration

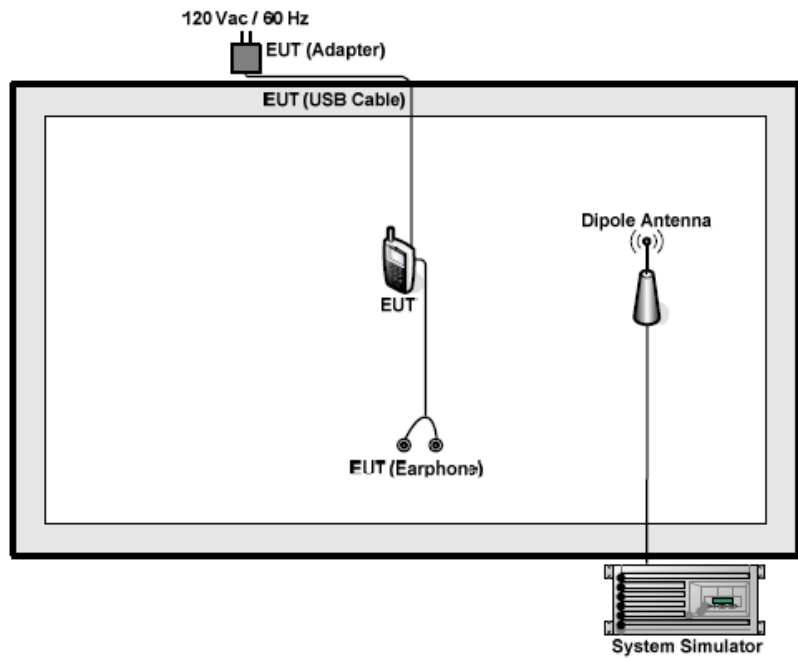
### 4.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

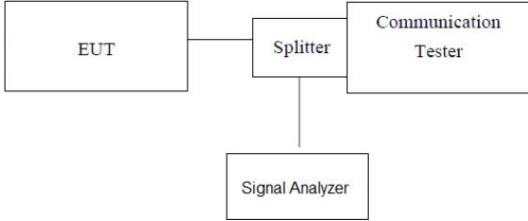
| Test modes           |                                                                                                             |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Band                 | Radiated                                                                                                    | Conducted                                                                                                   |
| <b>GSM 850</b>       | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> <li>■ EPRS 1 link</li> </ul>  | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> <li>■ EGPRS 1 link</li> </ul> |
| <b>PCS 1900</b>      | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> <li>■ EGPRS 1 link</li> </ul> | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> <li>■ EGPRS 1 link</li> </ul> |
| <b>WCDMA II</b>      | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       |
| <b>WCDMA Band IV</b> | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       |
| <b>WCDMA Band V</b>  | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>                                       |

Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 8 mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band V/II. Only these modes were used for all tests.

### 4.2 Configuration of Tested System



### 4.3 Conducted AV Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part 22.913(a) and FCC part 24.232(b), FCC part 27.50 (d)(4)                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Method:      | FCC part 2.1046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limit:            | GSM850, WCDMA Band V: 7W(38.45dbm)<br>PCS1900, WCDMA Band II: 2W(33.01dbm)<br>WCDMA Band IV: 1W(30.00dbm)                                                                                                                                                                                                                                                                                                                                                                                            |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                            |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The transmitter output port was connected to base station.</li> <li>2. The RF output of EUT was connected to the Signal Analyzer by RF cable and attenuator, the path loss was compensated to the results for each measurement.</li> <li>3. Set EUT at maximum power through base station.</li> <li>4. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>5. Measure the maximum burst average power.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Measurement Data

| Band GSM850              | Burst Average Power (dBm) |              |        |              | Frame-Average Power (dBm) |        |        |
|--------------------------|---------------------------|--------------|--------|--------------|---------------------------|--------|--------|
| TX Channel               | Tune-up                   | 128          | 190    | 251          | 128                       | 190    | 251    |
| Frequency (MHz)          |                           | 824.2        | 836.6  | 848.8        | 824.2                     | 836.6  | 848.8  |
| GSM(GMSK, 1 Tx slot)     | 33±1                      | 33.01        | 33.25  | <b>33.54</b> | 23.98                     | 24.22  | 24.51  |
| GPRS (GMSK, 1 Tx slot)   | 32±1                      | 32.85        | 32.85  | <b>32.92</b> | 23.82                     | 23.82  | 23.89  |
| GPRS (GMSK, 2 Tx slots)  | 30±1                      | 30.69        | 30.78  | 30.75        | 24.67                     | 24.76  | 24.73  |
| GPRS (GMSK, 3 Tx slots)  | 27±1                      | 27.26        | 27.12  | 27.23        | 23.00                     | 22.86  | 22.97  |
| GPRS (GMSK, 4 Tx slots)  | 25±1                      | 25.70        | 25.57  | 25.76        | 22.69                     | 22.56  | 22.75  |
| EGPRS (8PSK, 1 Tx slot)  | 28±1                      | <b>28.50</b> | 28.45  | 28.39        | 19.47                     | 19.42  | 19.36  |
| EGPRS (8PSK, 2 Tx slots) | 25±1                      | 25.56        | 25.72  | 25.60        | 19.54                     | 19.70  | 19.58  |
| EGPRS (8PSK, 3 Tx slots) | 24±1                      | 24.56        | 24.75  | 24.48        | 20.30                     | 20.49  | 20.22  |
| EGPRS (8PSK, 4 Tx slots) | 23±1                      | 23.71        | 23.86  | 23.65        | 20.70                     | 20.85  | 20.64  |
| Band PCS1900             | Burst Average Power (dBm) |              |        |              | Frame-Average Power (dBm) |        |        |
| TX Channel               | Tune-up                   | 512          | 661    | 810          | 512                       | 661    | 810    |
| Frequency (MHz)          | power                     | 1850.2       | 1880.0 | 1909.8       | 1850.2                    | 1880.0 | 1909.8 |
| GSM (GMSK, 1 Tx slot)    | 31±1                      | <b>31.36</b> | 30.24  | 30.14        | 22.33                     | 21.21  | 21.11  |
| GPRS (GMSK, 1 Tx slot)   | 30±1                      | 30.95        | 30.88  | <b>31.02</b> | 21.92                     | 21.85  | 21.99  |
| GPRS (GMSK, 2 Tx slots)  | 28±1                      | 28.39        | 28.30  | 28.32        | 22.37                     | 22.28  | 22.30  |
| GPRS (GMSK, 3 Tx slots)  | 27±1                      | 27.75        | 27.90  | 27.85        | 23.49                     | 23.64  | 23.59  |
| GPRS (GMSK, 4 Tx slots)  | 25±1                      | 25.46        | 25.49  | 25.39        | 22.45                     | 22.48  | 22.38  |
| EGPRS (8MSK, 1 Tx slot)  | 27±1                      | <b>27.77</b> | 27.74  | 27.64        | 18.74                     | 18.71  | 18.61  |
| EGPRS (8MSK, 2 Tx slots) | 25±1                      | 25.72        | 25.86  | 25.84        | 19.70                     | 19.84  | 19.82  |
| EGPRS (8MSK, 3 Tx slots) | 24±1                      | 24.15        | 24.26  | 23.96        | 19.89                     | 20.00  | 19.70  |
| EGPRS (8MSK, 4 Tx slots) | 22±1                      | 22.08        | 22.01  | 22.11        | 19.07                     | 19.00  | 19.10  |

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) – 9.03 dB

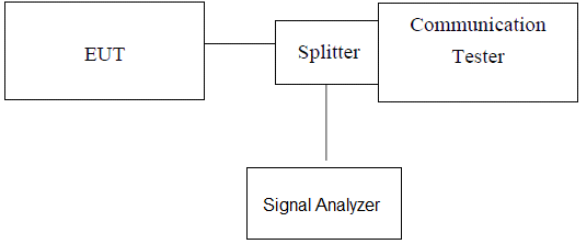
Frame-averaged power = Maximum burst averaged power (2 Tx Slots) – 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) – 3.01 dB

| WCDMA           | Band II (dBm) |              |              |        | Band IV (dBm) |        |              |        | Band V (dBm) |       |              |              |
|-----------------|---------------|--------------|--------------|--------|---------------|--------|--------------|--------|--------------|-------|--------------|--------------|
| TX Channel      | Tune-         | 9262         | 9400         | 9538   | Tune-         | 1312   | 1412         | 1513   | Tune-        | 4132  | 4183         | 4233         |
| Frequency (MHz) | up            | 1852.4       | 1880.0       | 1907.6 | up            | 1712.4 | 1732.6       | 1752.6 | up           | 826.4 | 836.6        | 846.6        |
| RMC 12.2Kbps    | 23±1          | 23.58        | <b>23.63</b> | 23.50  | 23±1          | 23.34  | <b>23.44</b> | 23.37  | 23±1         | 23.37 | <b>23.50</b> | 23.45        |
| RMC AMR         | 23±1          | 23.12        | 23.22        | 23.09  | 23±1          | 22.85  | 23.05        | 22.94  | 23±1         | 22.92 | 23.15        | 23.07        |
| HSDPA Subtest-1 | 22±1          | <b>22.10</b> | 22.08        | 22.05  | 22±1          | 22.55  | <b>22.73</b> | 22.66  | 22±1         | 22.82 | <b>22.93</b> | 22.75        |
| HSDPA Subtest-2 | 21±1          | 21.54        | 21.51        | 21.48  | 21±1          | 21.64  | 21.70        | 21.69  | 21±1         | 21.52 | 21.37        | 21.65        |
| HSDPA Subtest-3 | 21±1          | 21.05        | 21.07        | 21.10  | 21±1          | 21.51  | 21.50        | 21.67  | 21±1         | 21.47 | 21.28        | 21.42        |
| HSDPA Subtest-4 | 21±1          | 21.28        | 21.34        | 21.35  | 21±1          | 21.56  | 21.52        | 21.48  | 21±1         | 21.06 | 21.12        | 20.93        |
| HSUPA Subtest-1 | 22±1          | 22.46        | <b>22.62</b> | 22.59  | 22±1          | 22.61  | <b>22.75</b> | 22.73  | 22±1         | 22.47 | 22.32        | 22.63        |
| HSUPA Subtest-2 | 21±1          | 21.46        | 21.56        | 21.46  | 21±1          | 21.37  | 21.32        | 21.43  | 21±1         | 21.90 | 21.81        | 21.97        |
| HSUPA Subtest-3 | 21±1          | 21.33        | 21.30        | 21.35  | 21±1          | 21.12  | 21.05        | 21.01  | 21±1         | 21.26 | 21.21        | 21.26        |
| HSUPA Subtest-4 | 21±1          | 21.12        | 21.13        | 21.04  | 21±1          | 21.28  | 21.15        | 21.42  | 21±1         | 21.30 | 21.35        | 21.22        |
| HSUPA Subtest-5 | 22±1          | 22.25        | 22.22        | 22.30  | 22±1          | 22.42  | 22.39        | 22.25  | 22±1         | 22.61 | 22.43        | <b>22.66</b> |

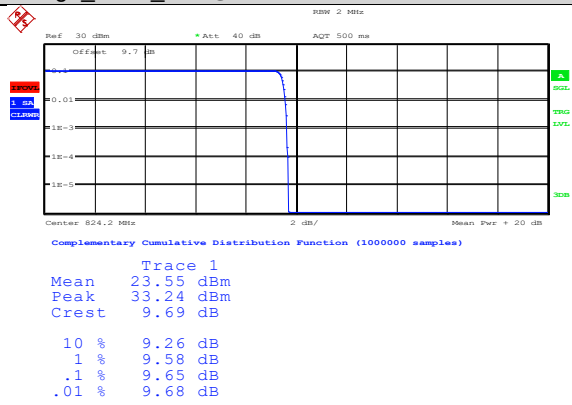
#### 4.4 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part24.232(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Limit:            | 13db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The transmitter output port was connected to base station.</li> <li>2. The RF output of EUT was connected to the Signal Analyzer by RF cable and attenuator, the path loss was compensated to the results for each measurement.</li> <li>3. Set EUT at maximum power through base station.</li> <li>4. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>5. Measure the maximum burst average power.</li> <li>6. Record the maximum peak-to-average ratio value.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Measurement data

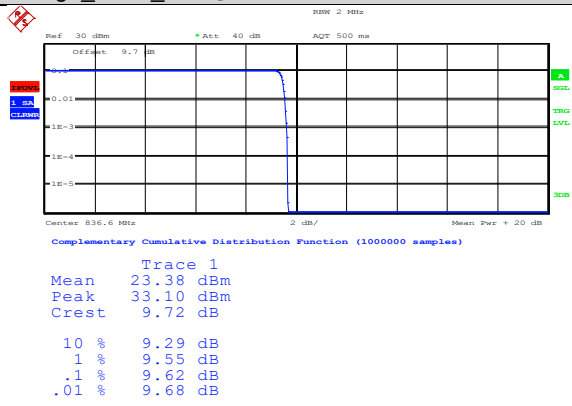
| Band      | Channel | PCL | Result(dB) | Limit(dB) | Verdict |
|-----------|---------|-----|------------|-----------|---------|
| GSM850    | 128     | 5   | 9.65       | 13        | PASS    |
| GSM850    | 190     | 5   | 9.62       | 13        | PASS    |
| GSM850    | 251     | 5   | 9.52       | 13        | PASS    |
| GPRS850   | 128     | 5   | 10.51      | 13        | PASS    |
| GPRS850   | 190     | 5   | 10.35      | 13        | PASS    |
| GPRS850   | 251     | 5   | 11.83      | 13        | PASS    |
| EGPRS850  | 128     | 8   | 10.21      | 13        | PASS    |
| EGPRS850  | 190     | 8   | 11.55      | 13        | PASS    |
| EGPRS850  | 251     | 8   | 12.82      | 13        | PASS    |
| GSM1900   | 512     | 0   | 9.97       | 13        | PASS    |
| GSM1900   | 661     | 0   | 9.87       | 13        | PASS    |
| GSM1900   | 810     | 0   | 10.1       | 13        | PASS    |
| GPRS1900  | 512     | 0   | 10.13      | 13        | PASS    |
| GPRS1900  | 661     | 0   | 10.03      | 13        | PASS    |
| GPRS1900  | 810     | 0   | 9.97       | 13        | PASS    |
| EGPRS1900 | 512     | 2   | 12.66      | 13        | PASS    |
| EGPRS1900 | 661     | 2   | 12.69      | 13        | PASS    |
| EGPRS1900 | 810     | 2   | 12.69      | 13        | PASS    |

@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GSM850-128



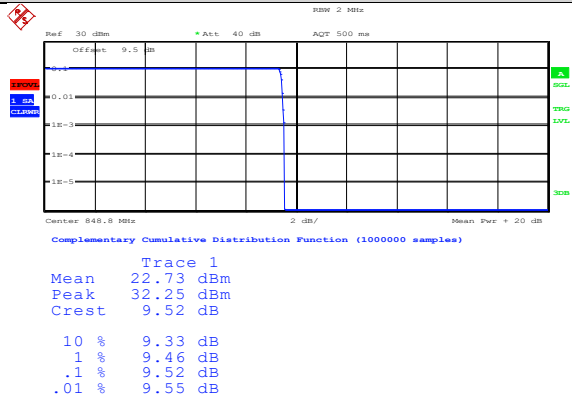
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GSM850-190



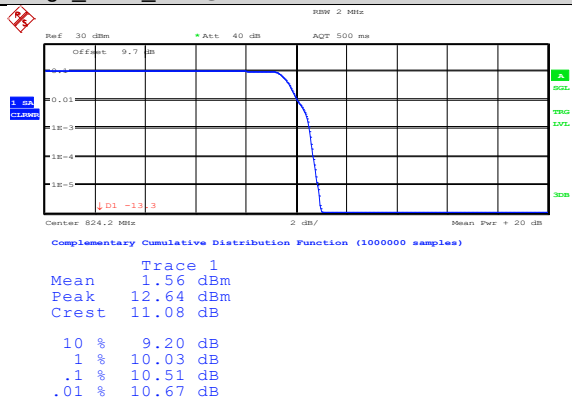
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GSM850-251



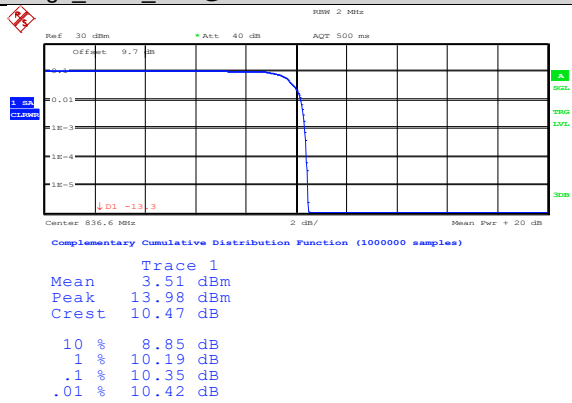
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GPRS850-128



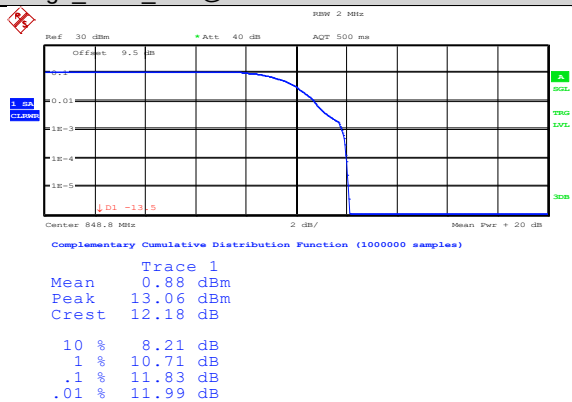
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GPRS850-190



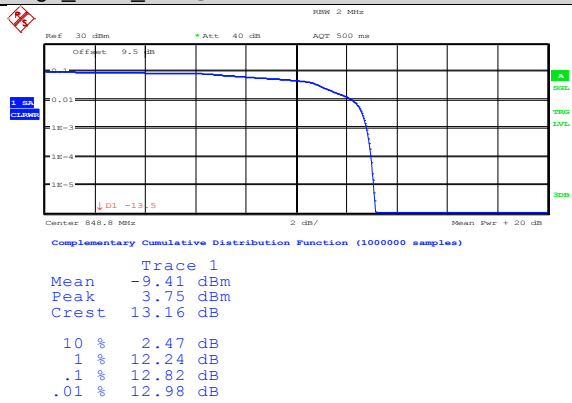
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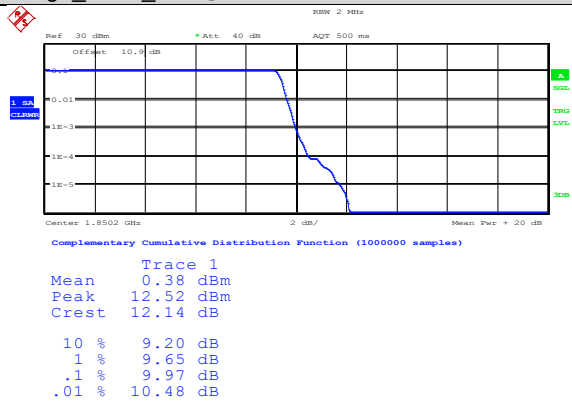
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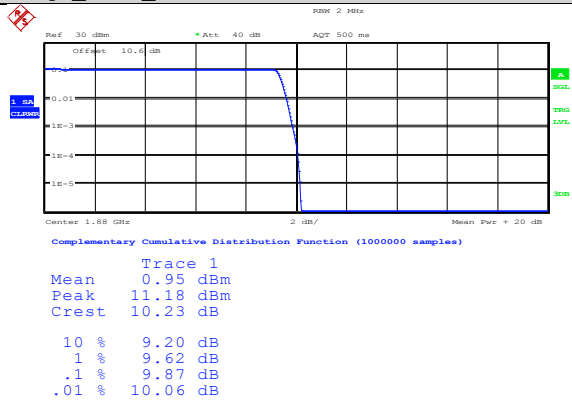
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GSM1900-512



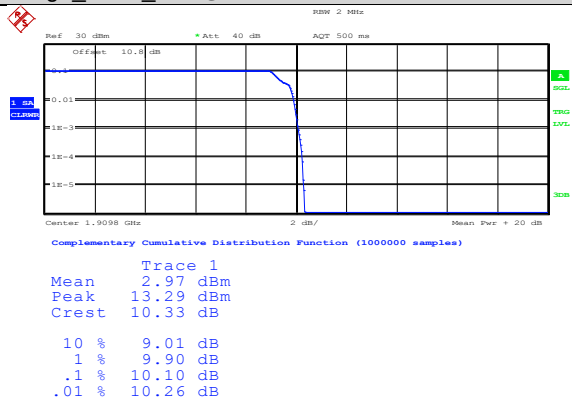
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GSM1900-661



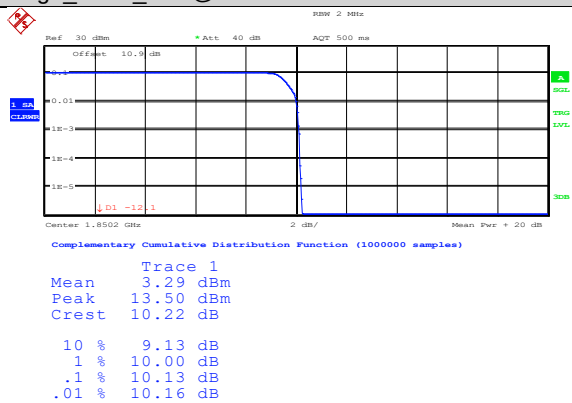
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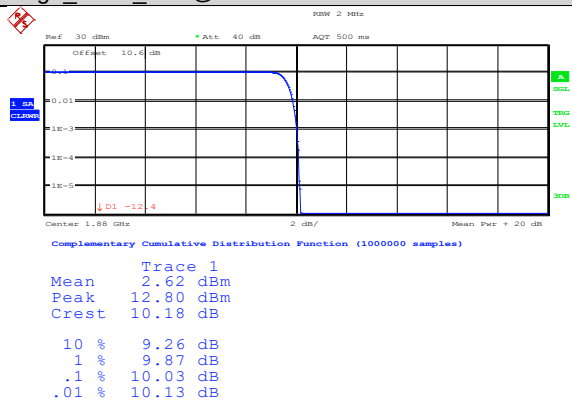
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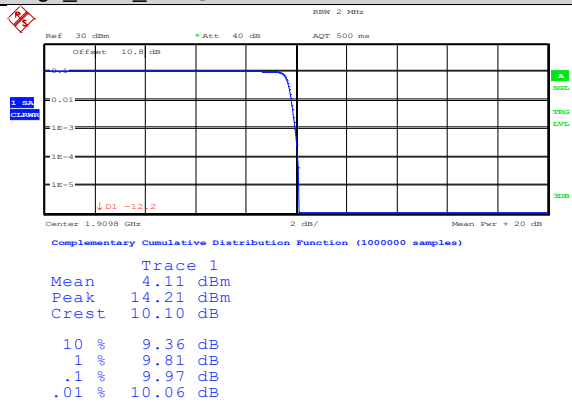
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GPRS1900-661



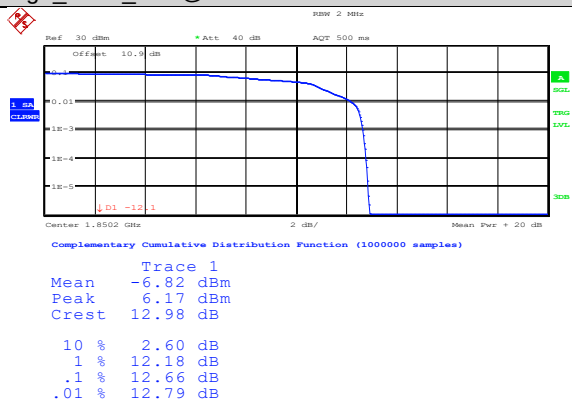
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@GPRS1900-810



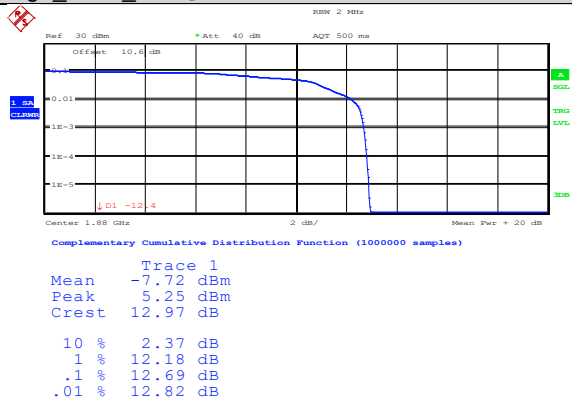
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@EGPRS1900-512



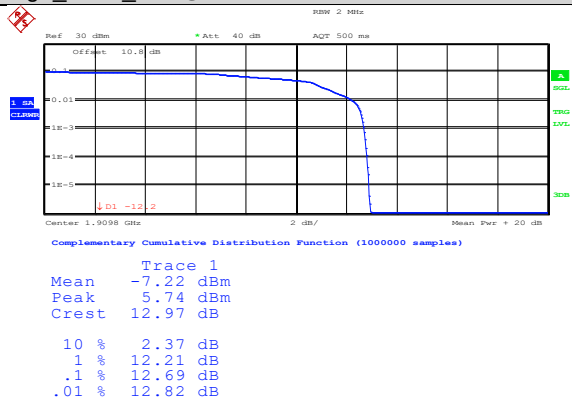
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@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@EGPRS1900-661



@FCC\_GSM\_Peak to Average Ratio IMG@

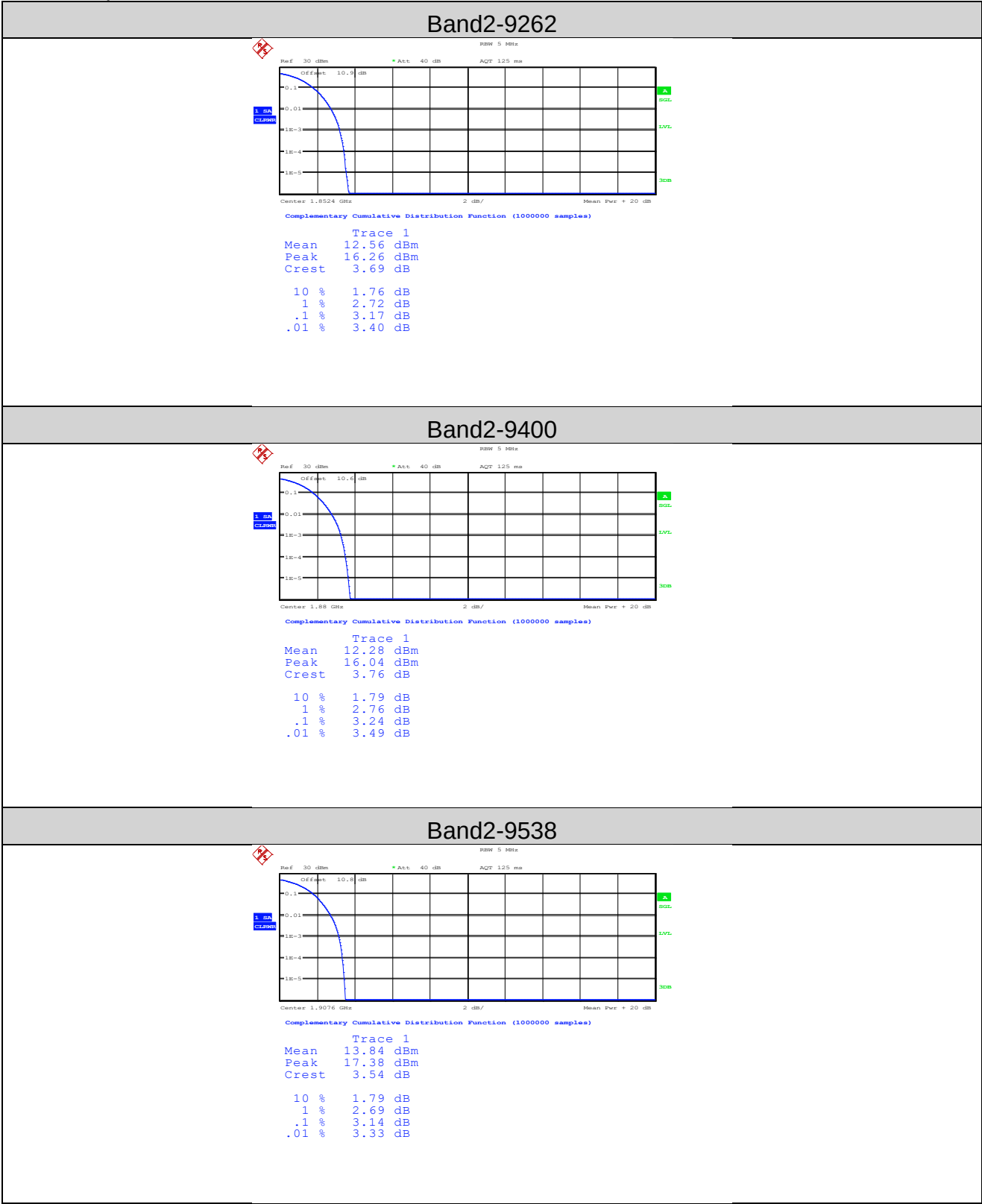
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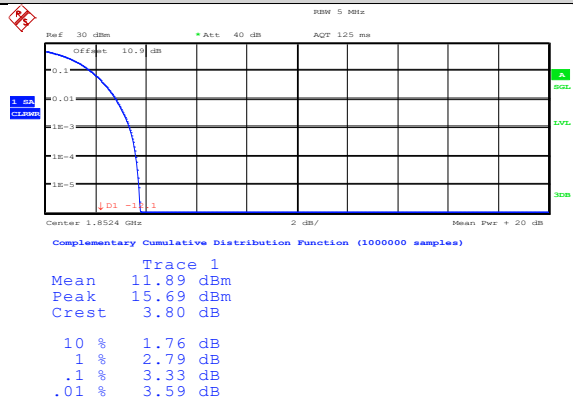
@FCC\_GSM\_Peak\_to\_Average\_Ratio\_IMG@

| Band  | Channel | Peak-to-Average Ratio(dB) |                           | Limit(dB) | Verdict |
|-------|---------|---------------------------|---------------------------|-----------|---------|
| Band2 | 9262    | 3.17                      |                           | 13        | PASS    |
| Band2 | 9400    | 3.24                      |                           | 13        | PASS    |
| Band2 | 9538    | 3.14                      |                           | 13        | PASS    |
| Band  | Channel | SubTest                   | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
| Band2 | 9262    | 1                         | 3.33                      | 13        | PASS    |
| Band2 | 9262    | 2                         | 3.81                      | 13        | PASS    |
| Band2 | 9262    | 3                         | 4.01                      | 13        | PASS    |
| Band2 | 9262    | 4                         | 4.07                      | 13        | PASS    |
| Band2 | 9400    | 1                         | 3.4                       | 13        | PASS    |
| Band2 | 9400    | 2                         | 3.85                      | 13        | PASS    |
| Band2 | 9400    | 3                         | 4.07                      | 13        | PASS    |
| Band2 | 9400    | 4                         | 4.1                       | 13        | PASS    |
| Band2 | 9538    | 1                         | 3.4                       | 13        | PASS    |
| Band2 | 9538    | 2                         | 3.85                      | 13        | PASS    |
| Band2 | 9538    | 3                         | 4.01                      | 13        | PASS    |
| Band2 | 9538    | 4                         | 4.07                      | 13        | PASS    |
| Band  | Channel | SubTest                   | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
| Band2 | 9262    | 1                         | 4.39                      | 13        | PASS    |
| Band2 | 9262    | 2                         | 5.38                      | 13        | PASS    |
| Band2 | 9262    | 3                         | 4.97                      | 13        | PASS    |
| Band2 | 9262    | 4                         | 5.45                      | 13        | PASS    |
| Band2 | 9262    | 5                         | 4.36                      | 13        | PASS    |
| Band2 | 9400    | 1                         | 4.46                      | 13        | PASS    |
| Band2 | 9400    | 2                         | 5.45                      | 13        | PASS    |
| Band2 | 9400    | 3                         | 5                         | 13        | PASS    |
| Band2 | 9400    | 4                         | 5.54                      | 13        | PASS    |
| Band2 | 9400    | 5                         | 4.78                      | 13        | PASS    |
| Band2 | 9538    | 1                         | 4.42                      | 13        | PASS    |
| Band2 | 9538    | 2                         | 5.38                      | 13        | PASS    |
| Band2 | 9538    | 3                         | 5                         | 13        | PASS    |
| Band2 | 9538    | 4                         | 5.48                      | 13        | PASS    |
| Band2 | 9538    | 5                         | 4.39                      | 13        | PASS    |

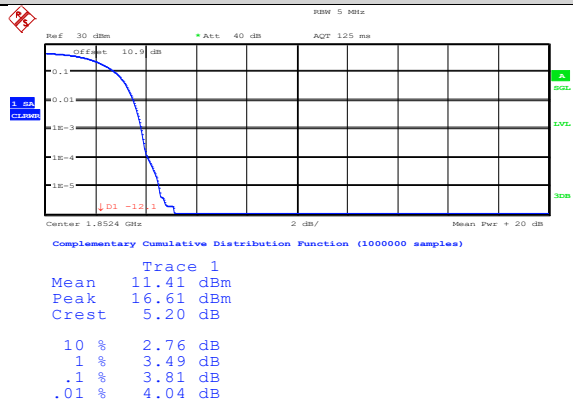
Test Graphs



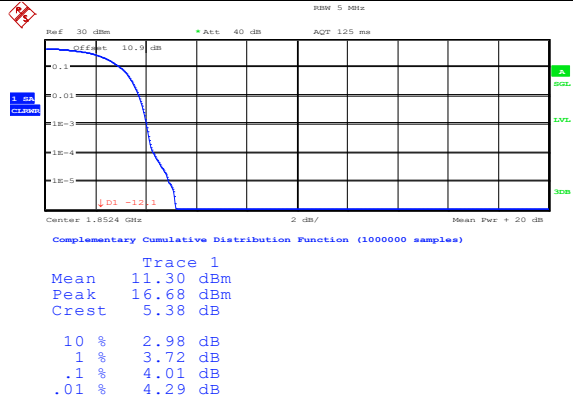
Band2-9262-1



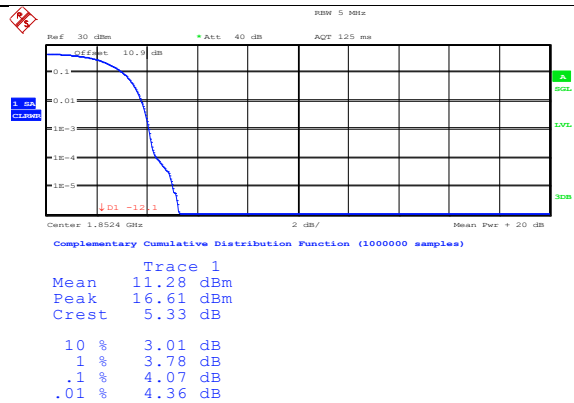
Band2-9262-2



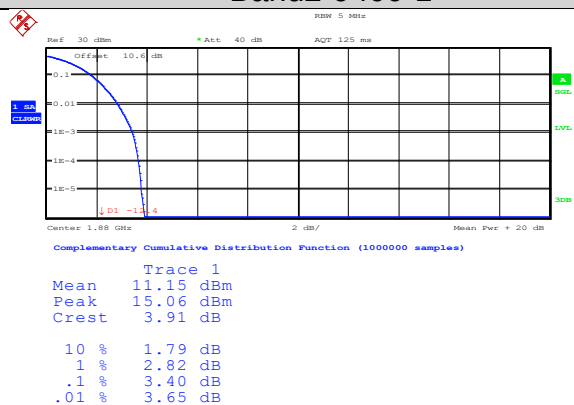
Band2-9262-3



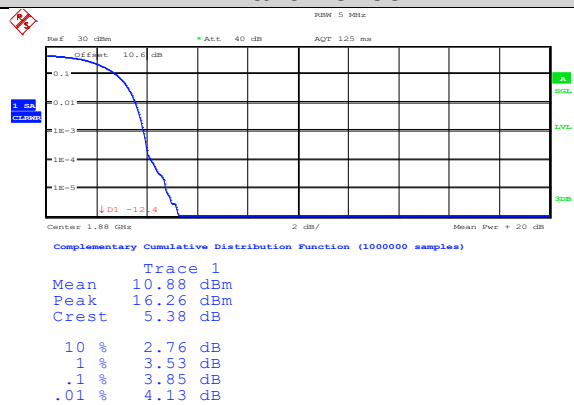
Band2-9262-4



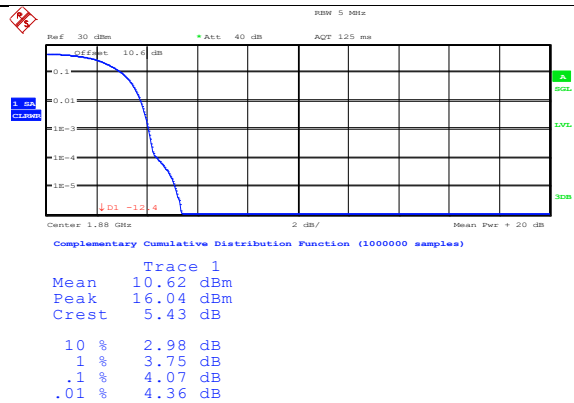
Band2-9400-1



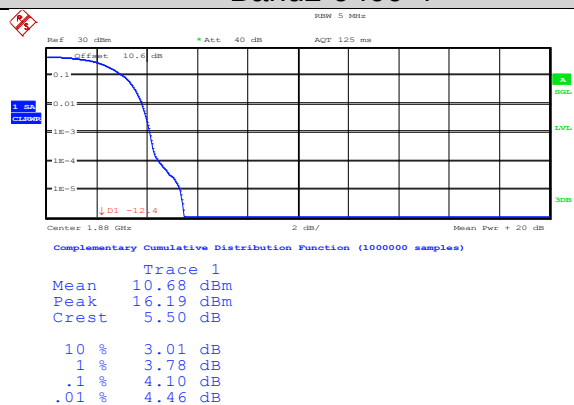
Band2-9400-2



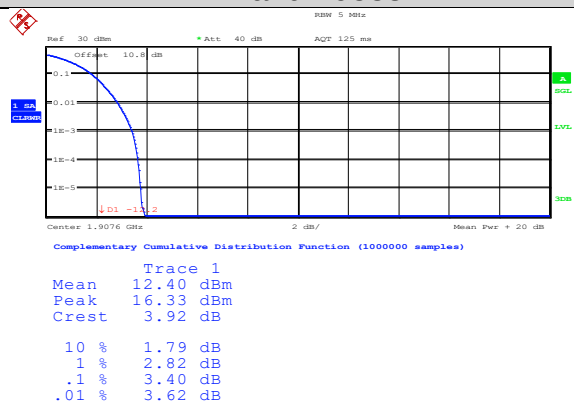
Band2-9400-3



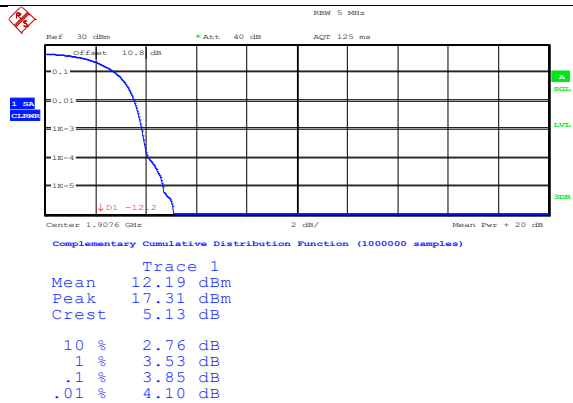
Band2-9400-4



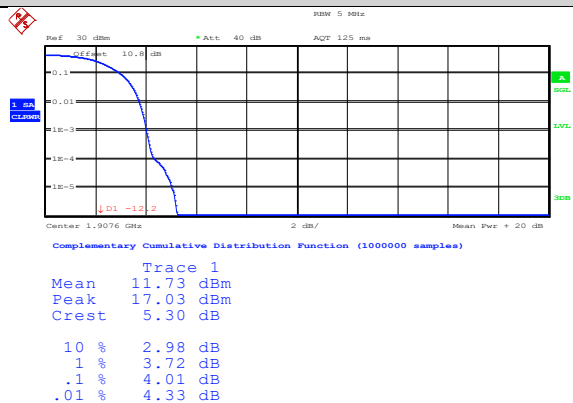
Band2-9538-1



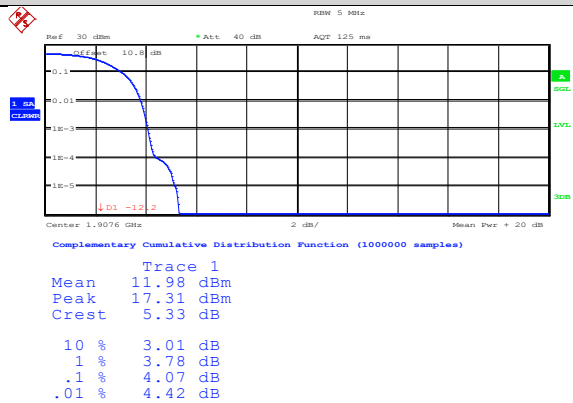
Band2-9538-2



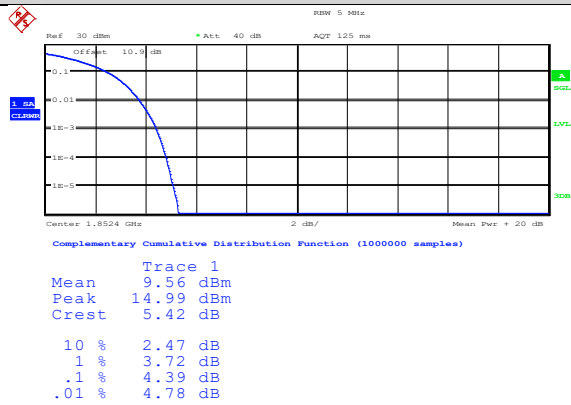
Band2-9538-3



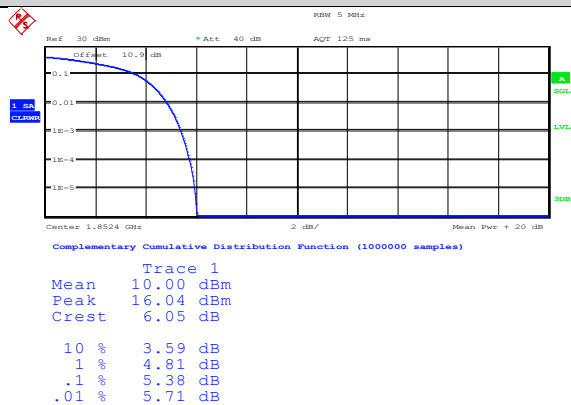
Band2-9538-4



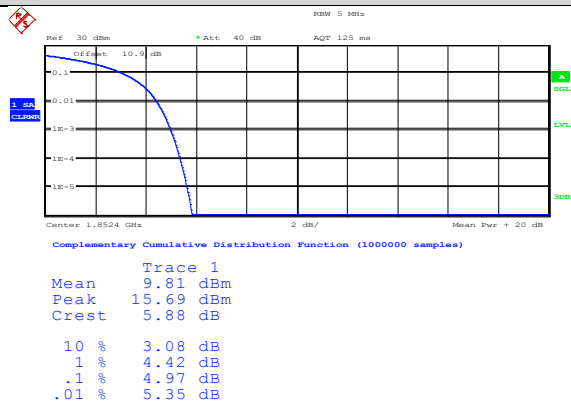
Band2-9262-1



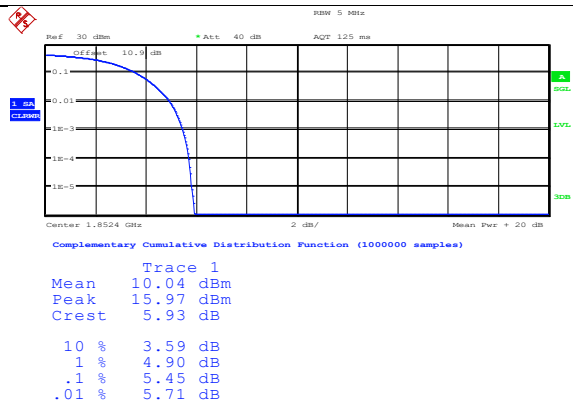
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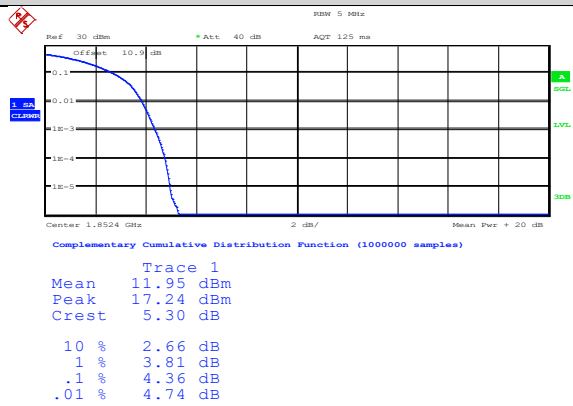
Band2-9262-3



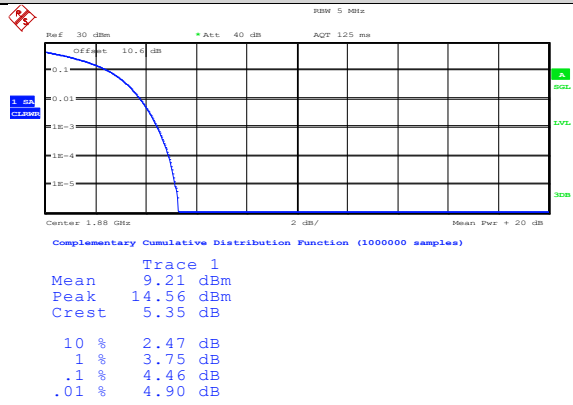
Band2-9262-4



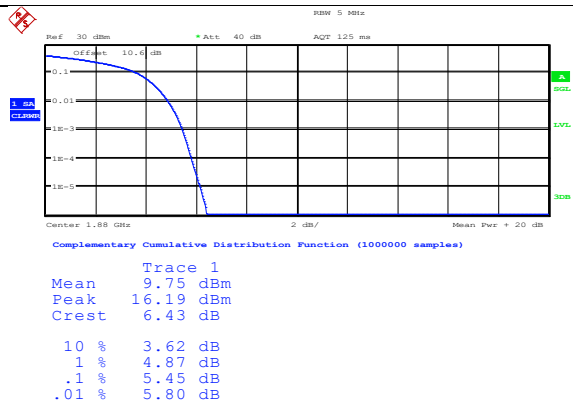
Band2-9262-5



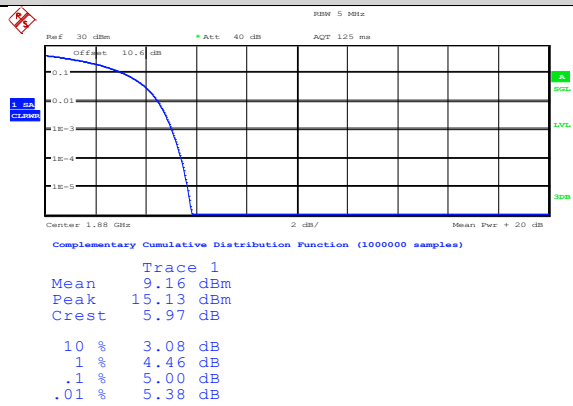
Band2-9400-1



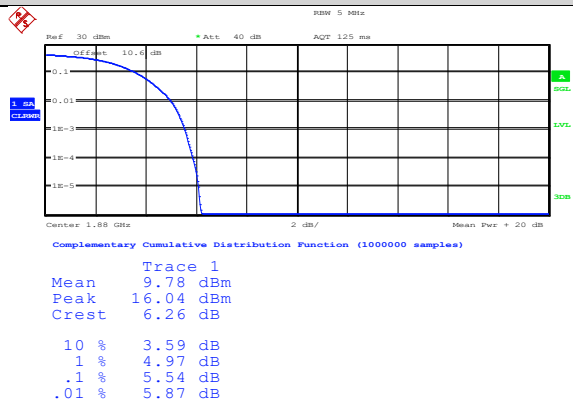
Band2-9400-2



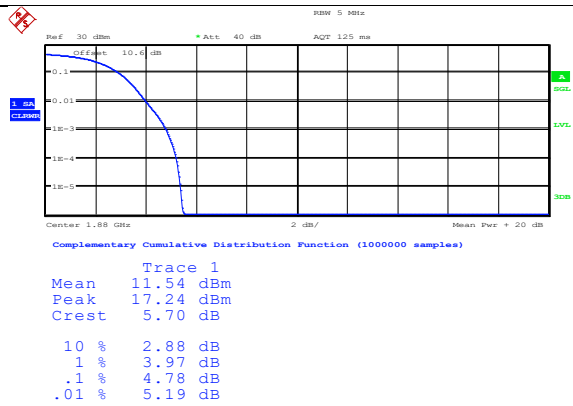
Band2-9400-3



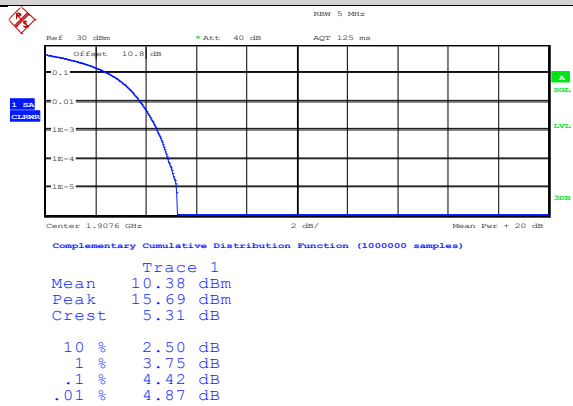
Band2-9400-4



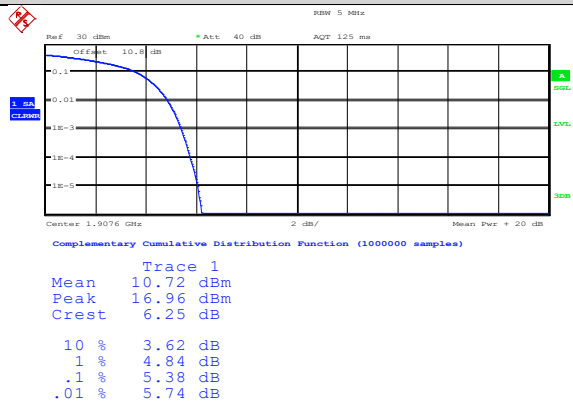
Band2-9400-5



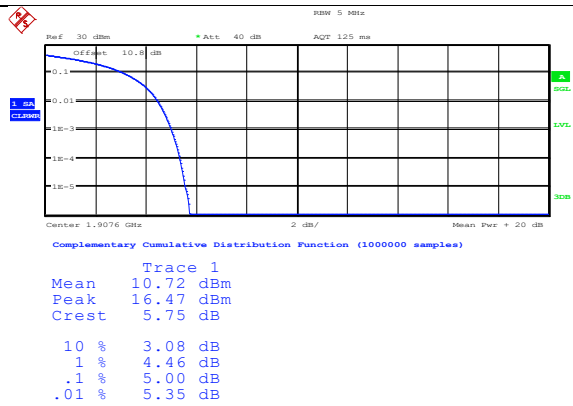
Band2-9538-1



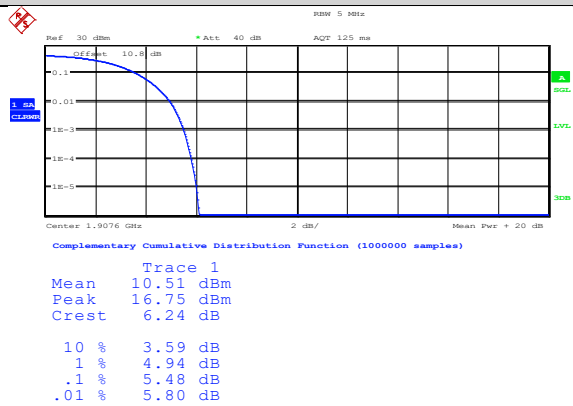
Band2-9538-2



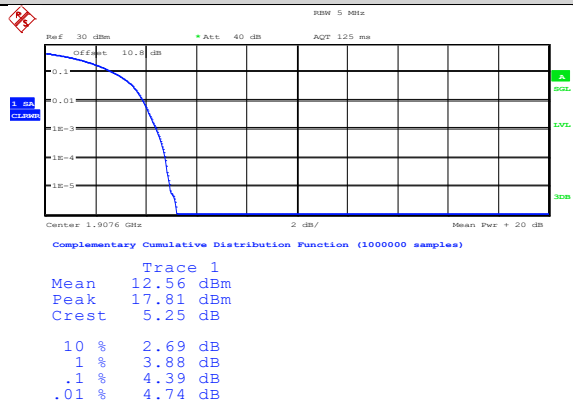
Band2-9538-3



Band2-9538-4



Band2-9538-5

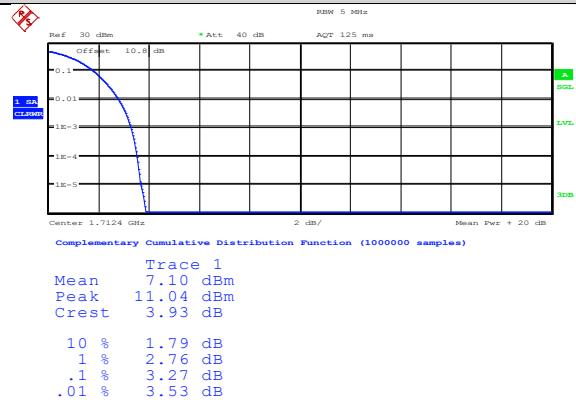


| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band4 | 1312    | 3.27                      | 13        | PASS    |
| Band4 | 1413    | 3.24                      | 13        | PASS    |
| Band4 | 1513    | 3.27                      | 13        | PASS    |

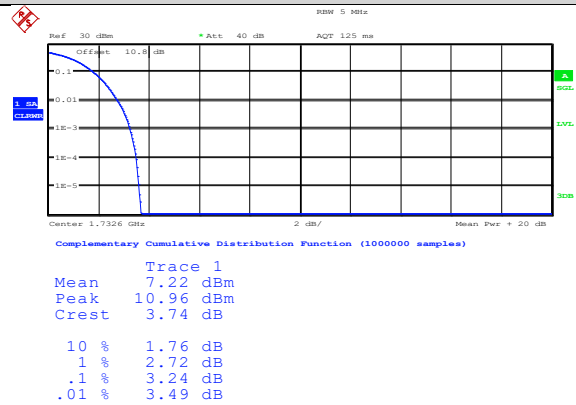
| Band  | Channel | SubTest | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------|---------------------------|-----------|---------|
| Band4 | 1312    | 1       | 3.65                      | 13        | PASS    |
| Band4 | 1312    | 2       | 3.85                      | 13        | PASS    |
| Band4 | 1312    | 3       | 4.07                      | 13        | PASS    |
| Band4 | 1312    | 4       | 4.1                       | 13        | PASS    |
| Band4 | 1413    | 1       | 3.17                      | 13        | PASS    |
| Band4 | 1413    | 2       | 3.59                      | 13        | PASS    |
| Band4 | 1413    | 3       | 3.81                      | 13        | PASS    |
| Band4 | 1413    | 4       | 3.85                      | 13        | PASS    |
| Band4 | 1513    | 1       | 3.62                      | 13        | PASS    |
| Band4 | 1513    | 2       | 3.81                      | 13        | PASS    |
| Band4 | 1513    | 3       | 4.04                      | 13        | PASS    |
| Band4 | 1513    | 4       | 4.07                      | 13        | PASS    |

Test Graphs

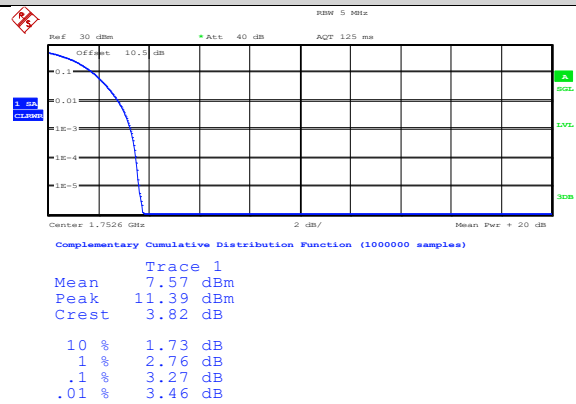
Band4-1312



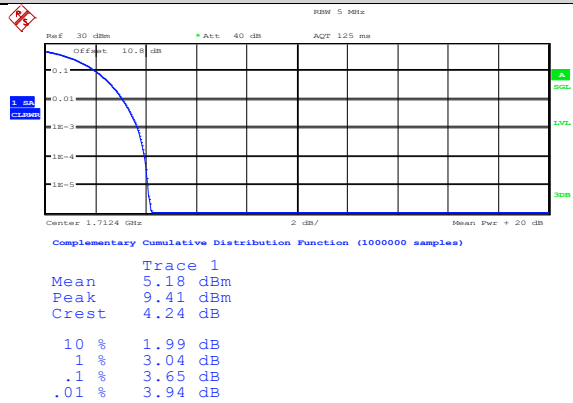
Band4-1413



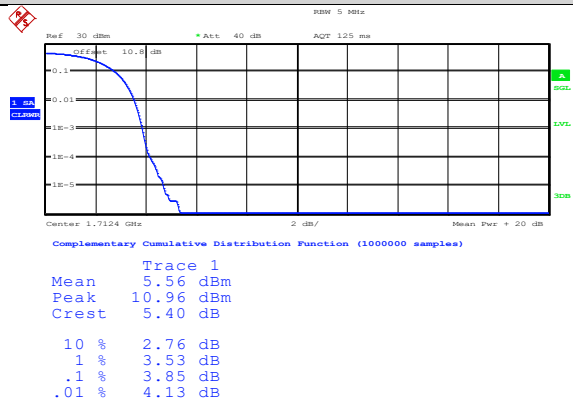
Band4-1513



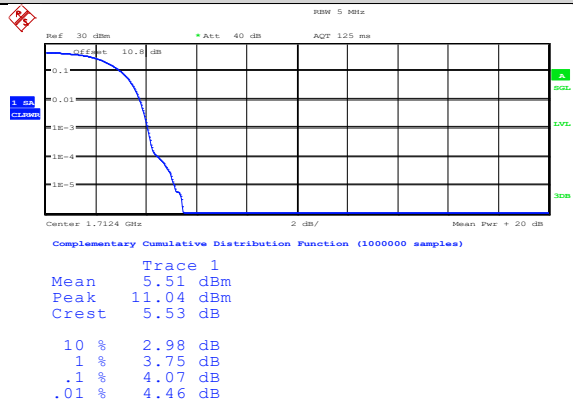
Band4-1312-1



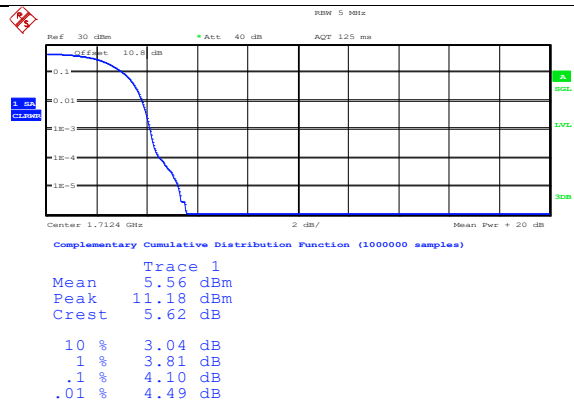
Band4-1312-2



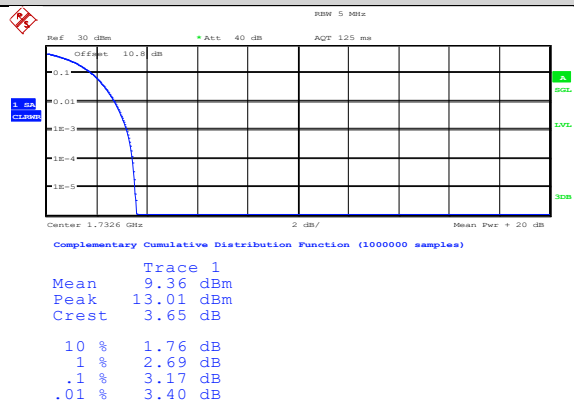
Band4-1312-3



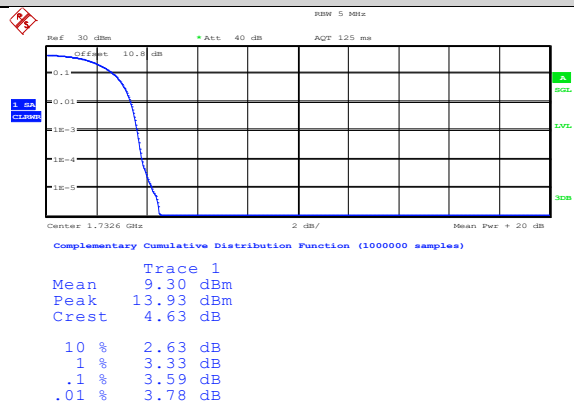
Band4-1312-4



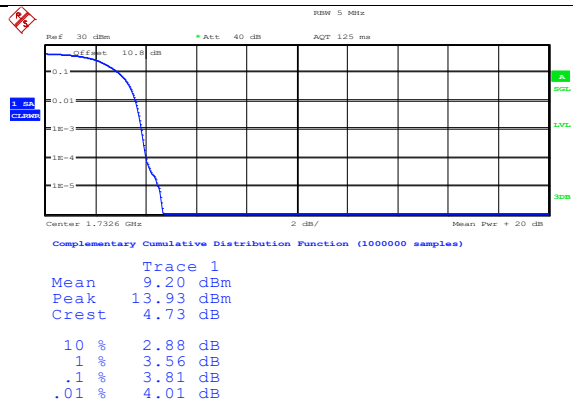
Band4-1413-1



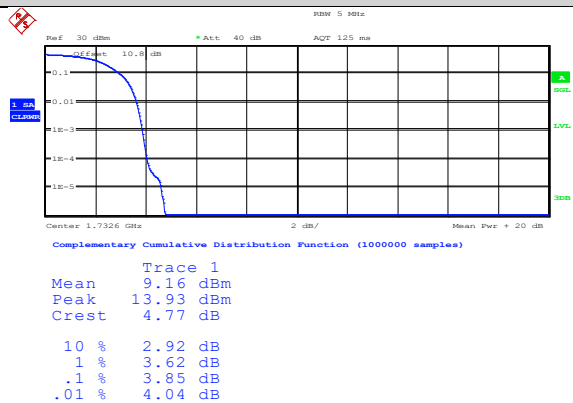
Band4-1413-2



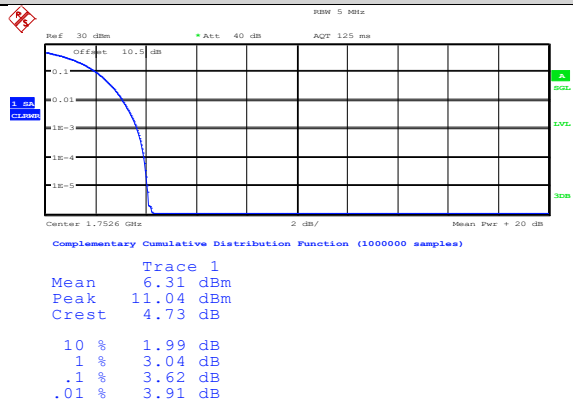
Band4-1413-3



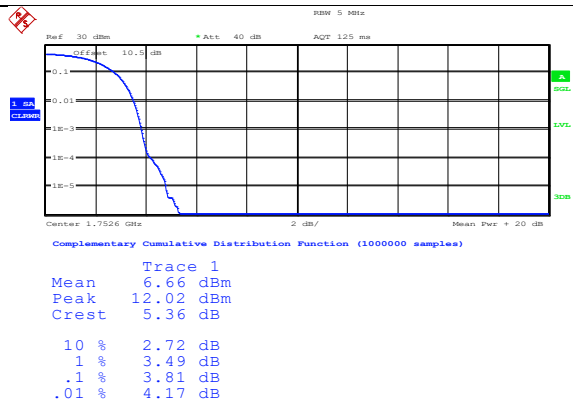
Band4-1413-4



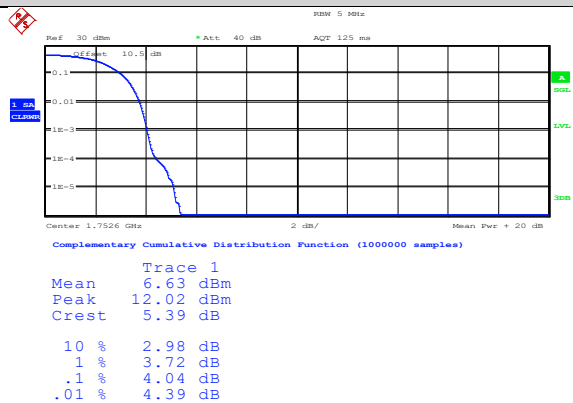
Band4-1513-1



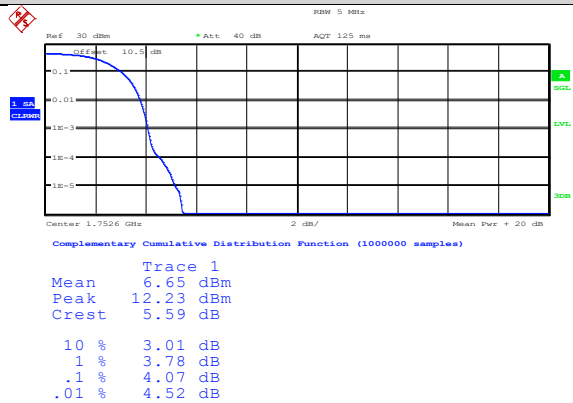
Band4-1513-2



Band4-1513-3



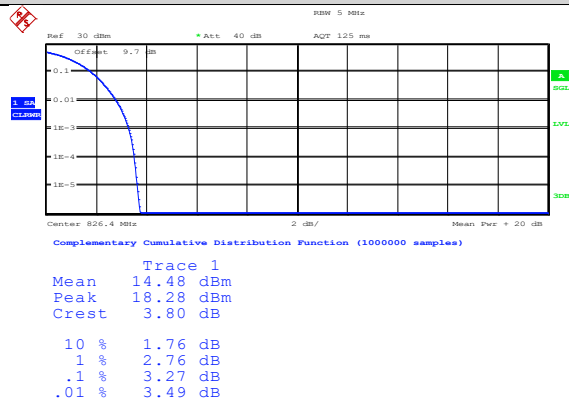
Band4-1513-4



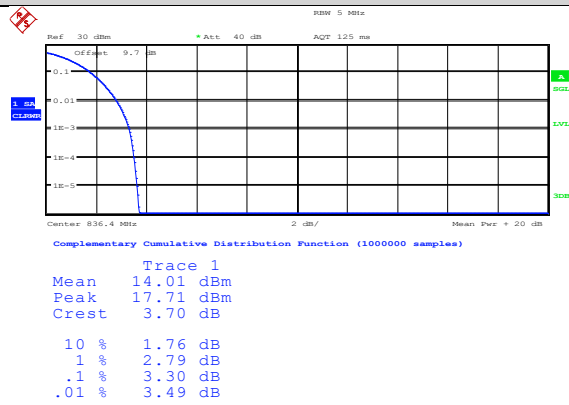
| Band  | Channel | Peak-to-Average Ratio(dB) |                           | Limit(dB) | Verdict |
|-------|---------|---------------------------|---------------------------|-----------|---------|
| Band5 | 4132    | 3.27                      |                           | 13        | PASS    |
| Band5 | 4182    | 3.3                       |                           | 13        | PASS    |
| Band5 | 4233    | 3.46                      |                           | 13        | PASS    |
| Band  | Channel | SubTest                   | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
| Band5 | 4132    | 1                         | 3.27                      | 13        | PASS    |
| Band5 | 4132    | 2                         | 3.72                      | 13        | PASS    |
| Band5 | 4132    | 3                         | 3.91                      | 13        | PASS    |
| Band5 | 4132    | 4                         | 3.97                      | 13        | PASS    |
| Band5 | 4182    | 1                         | 3.3                       | 13        | PASS    |
| Band5 | 4182    | 2                         | 3.72                      | 13        | PASS    |
| Band5 | 4182    | 3                         | 3.91                      | 13        | PASS    |
| Band5 | 4182    | 4                         | 3.94                      | 13        | PASS    |
| Band5 | 4233    | 1                         | 3.37                      | 13        | PASS    |
| Band5 | 4233    | 2                         | 3.85                      | 13        | PASS    |
| Band5 | 4233    | 3                         | 4.07                      | 13        | PASS    |
| Band5 | 4233    | 4                         | 4.2                       | 13        | PASS    |
| Band  | Channel | SubTest                   | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
| Band5 | 4132    | 1                         | 4.42                      | 13        | PASS    |
| Band5 | 4132    | 2                         | 5.29                      | 13        | PASS    |
| Band5 | 4132    | 3                         | 4.81                      | 13        | PASS    |
| Band5 | 4132    | 4                         | 5.45                      | 13        | PASS    |
| Band5 | 4132    | 5                         | 4.13                      | 13        | PASS    |
| Band5 | 4182    | 1                         | 4.46                      | 13        | PASS    |
| Band5 | 4182    | 2                         | 5.35                      | 13        | PASS    |
| Band5 | 4182    | 3                         | 4.9                       | 13        | PASS    |
| Band5 | 4182    | 4                         | 5.54                      | 13        | PASS    |
| Band5 | 4182    | 5                         | 4.23                      | 13        | PASS    |
| Band5 | 4233    | 1                         | 4.46                      | 13        | PASS    |
| Band5 | 4233    | 2                         | 5.35                      | 13        | PASS    |
| Band5 | 4233    | 3                         | 4.94                      | 13        | PASS    |
| Band5 | 4233    | 4                         | 5.54                      | 13        | PASS    |
| Band5 | 4233    | 5                         | 4.29                      | 13        | PASS    |

Test Graphs

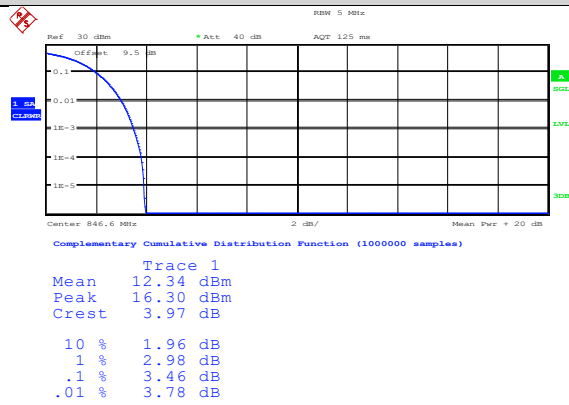
Band5-4132



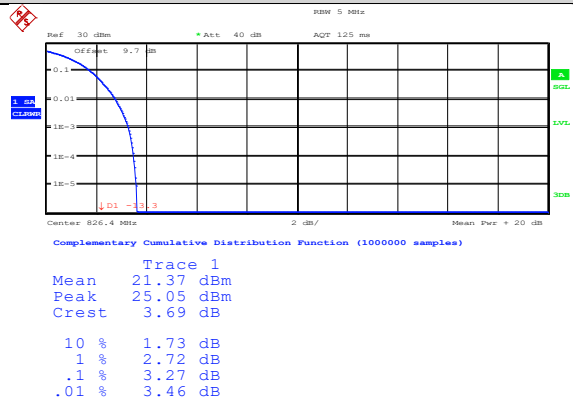
Band5-4182



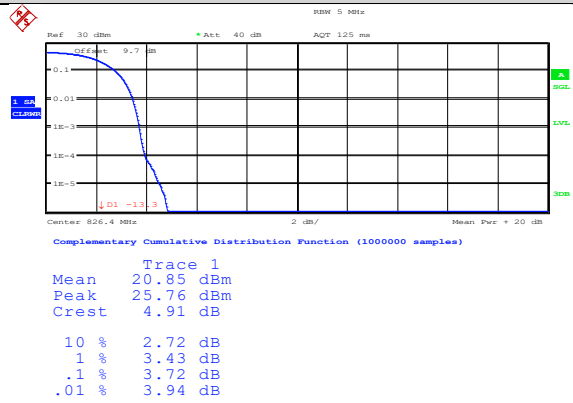
Band5-4233



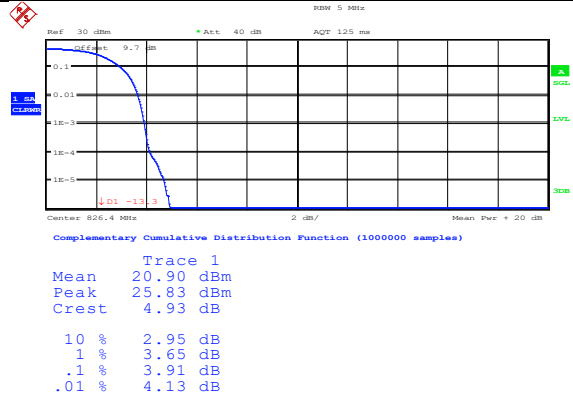
Band5-4132-1



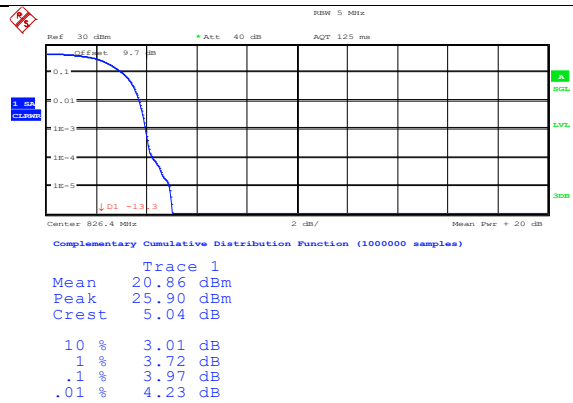
Band5-4132-2



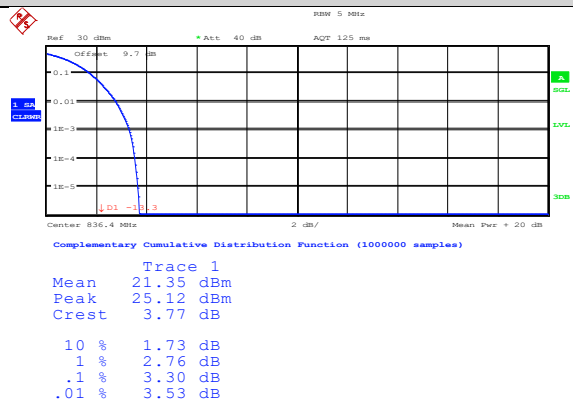
Band5-4132-3



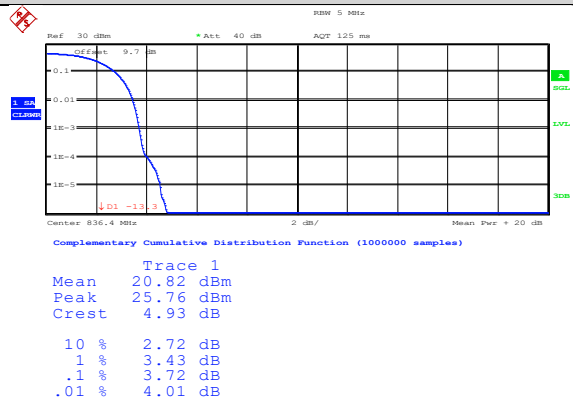
Band5-4132-4



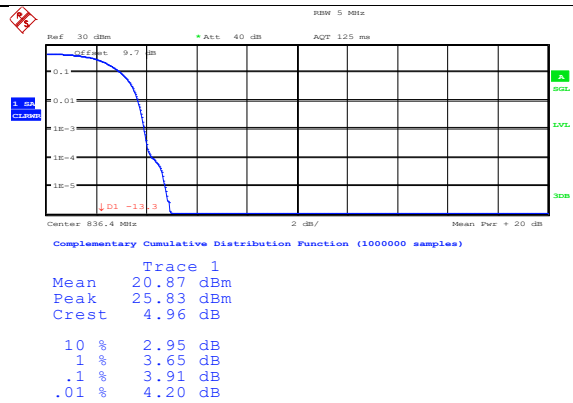
Band5-4182-1



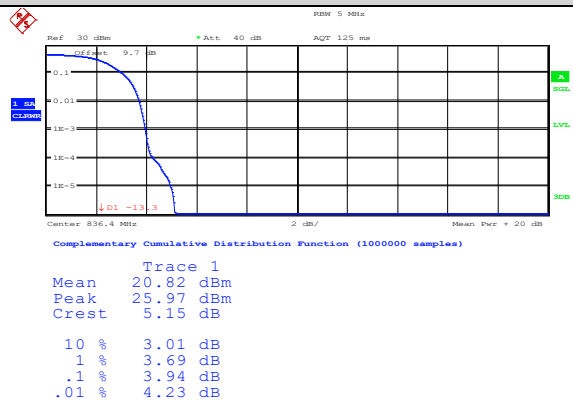
Band5-4182-2



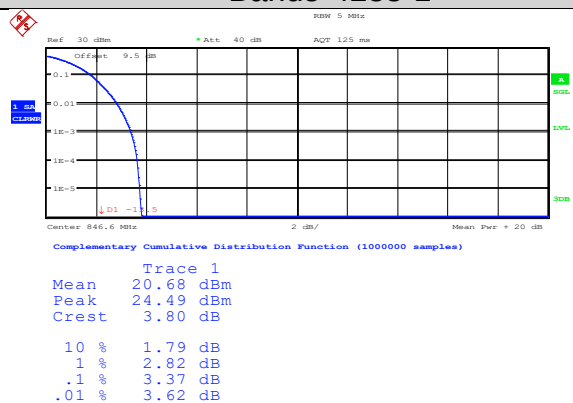
Band5-4182-3



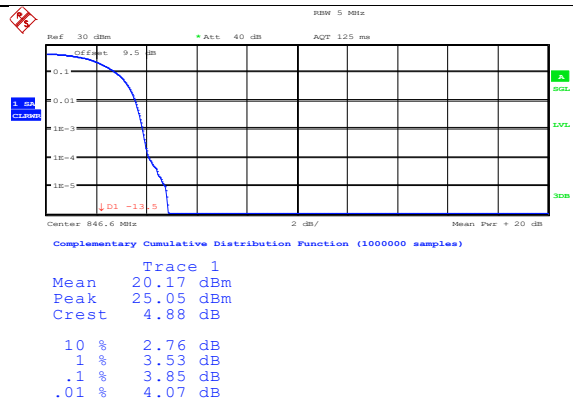
Band5-4182-4



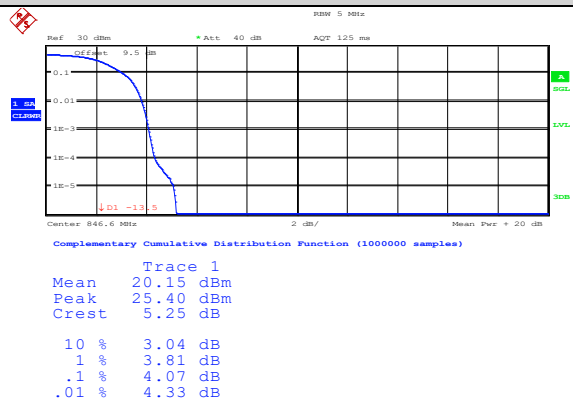
Band5-4233-1



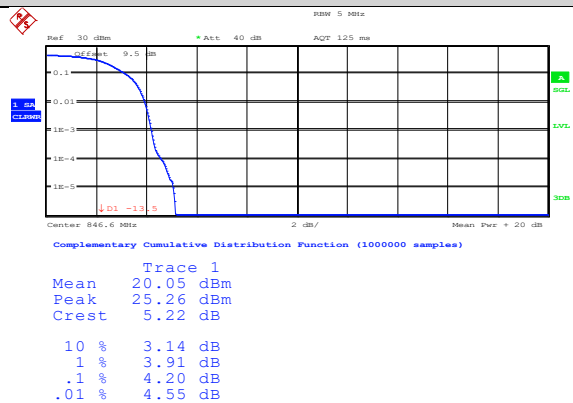
Band5-4233-2



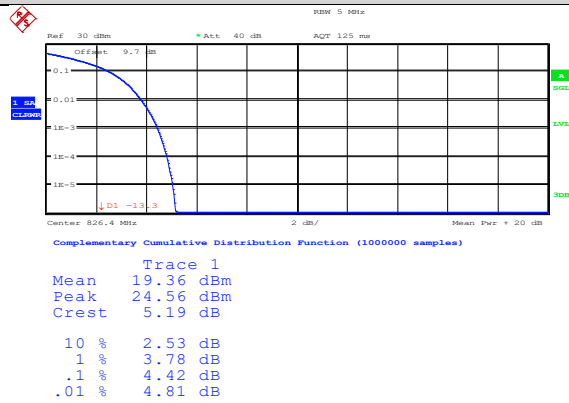
Band5-4233-3



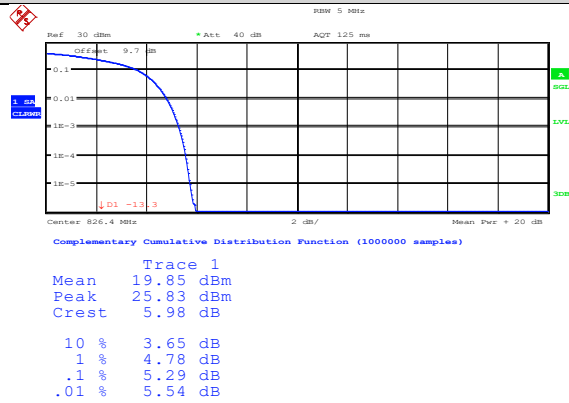
Band5-4233-4



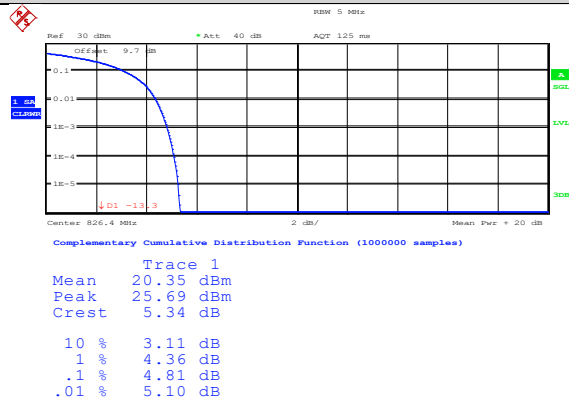
Band5-4132-1



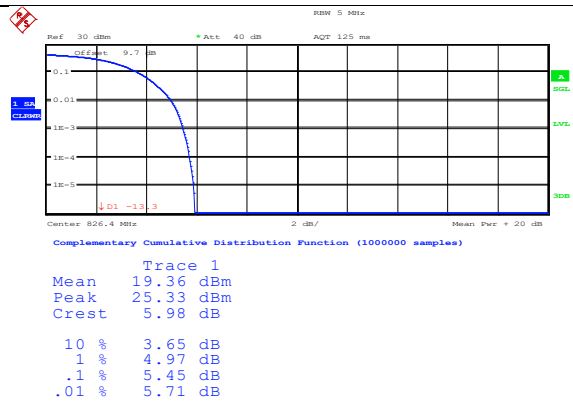
Band5-4132-2



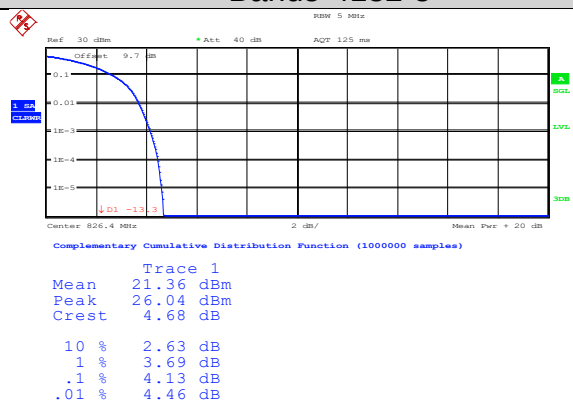
Band5-4132-3



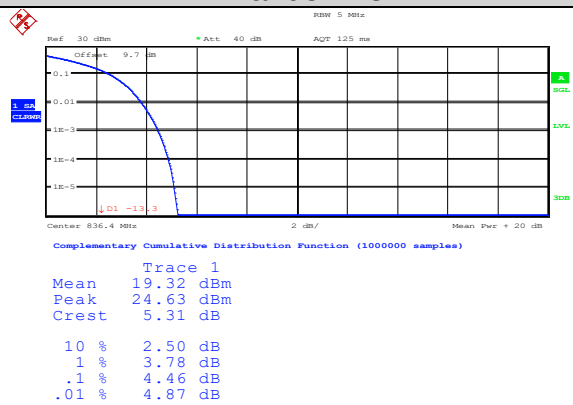
Band5-4132-4



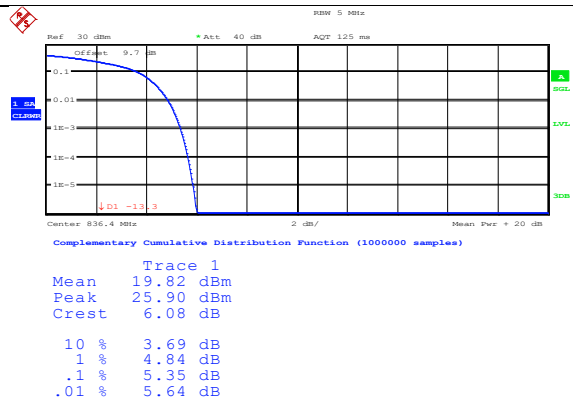
Band5-4132-5



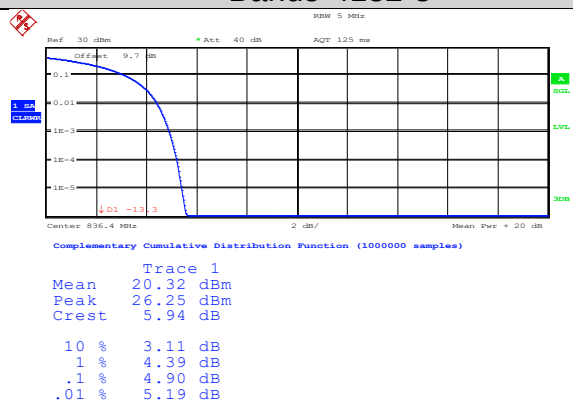
Band5-4182-1



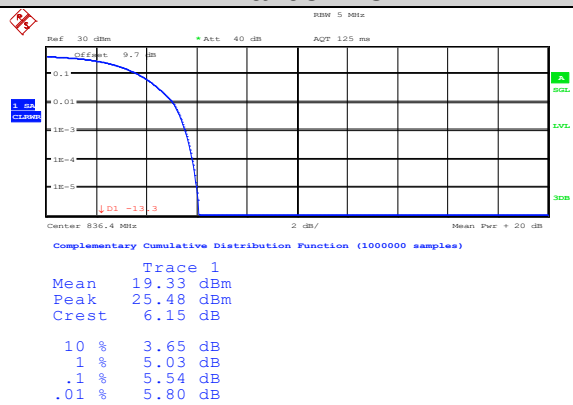
Band5-4182-2



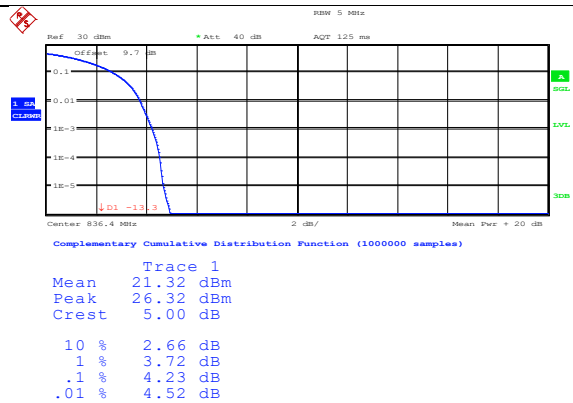
Band5-4182-3



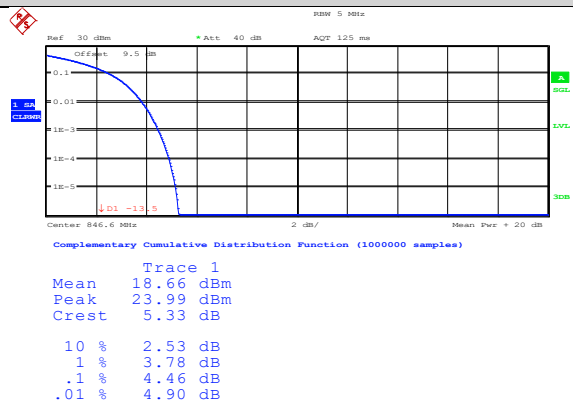
Band5-4182-4



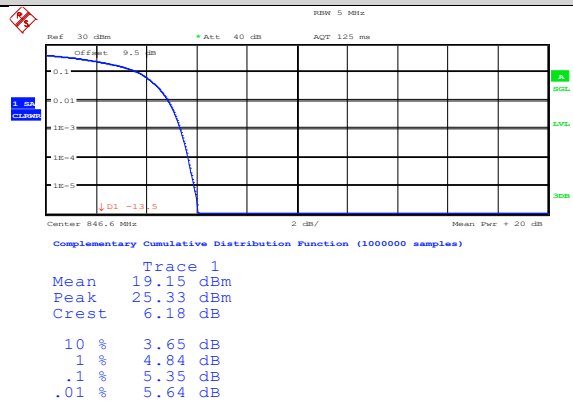
Band5-4182-5



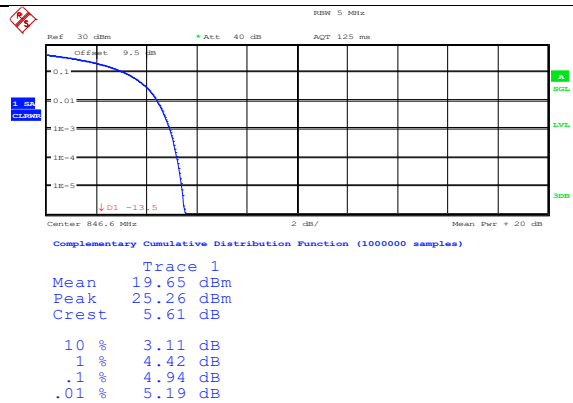
Band5-4233-1



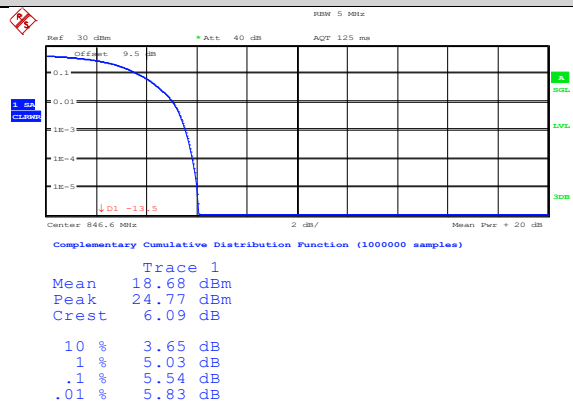
Band5-4233-2



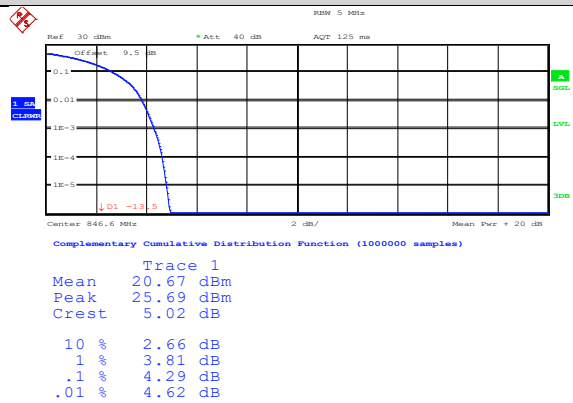
Band5-4233-3



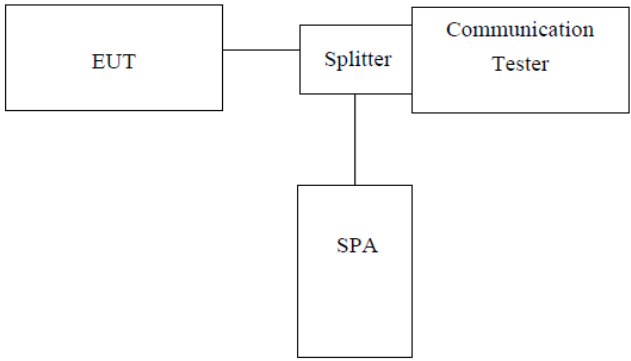
Band5-4233-4



Band5-4233-5



#### 4.5 Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1049                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Measurement Data

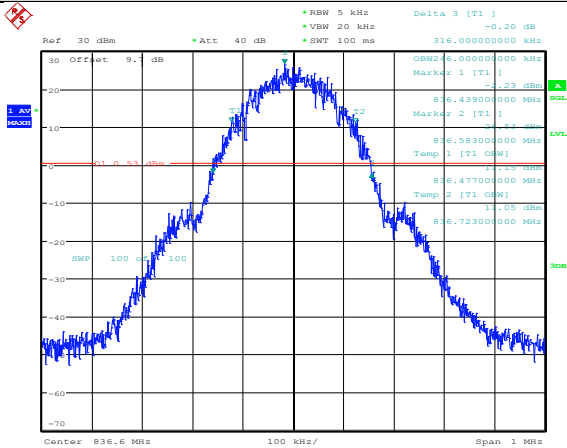
| Band      | Channel | PCL | Occupied<br>Bandwidth (MHz) | 26dB Bandwidth<br>(MHz) | Limit<br>(MHz) | Verdict |
|-----------|---------|-----|-----------------------------|-------------------------|----------------|---------|
| GSM850    | 128     | 5   | 0.242                       | 0.30                    | ---            | PASS    |
| GSM850    | 190     | 5   | 0.246                       | 0.32                    | ---            | PASS    |
| GSM850    | 251     | 5   | 0.246                       | 0.32                    | ---            | PASS    |
| GPRS850   | 128     | 5   | 0.245                       | 0.32                    | ---            | PASS    |
| GPRS850   | 190     | 5   | 0.244                       | 0.31                    | ---            | PASS    |
| GPRS850   | 251     | 5   | 0.25                        | 0.31                    | ---            | PASS    |
| EGPRS850  | 128     | 8   | 0.251                       | 0.32                    | ---            | PASS    |
| EGPRS850  | 190     | 8   | 0.236                       | 0.29                    | ---            | PASS    |
| EGPRS850  | 251     | 8   | 0.242                       | 0.31                    | ---            | PASS    |
| GSM1900   | 512     | 0   | 0.245                       | 0.32                    | ---            | PASS    |
| GSM1900   | 661     | 0   | 0.246                       | 0.31                    | ---            | PASS    |
| GSM1900   | 810     | 0   | 0.245                       | 0.31                    | ---            | PASS    |
| GPRS1900  | 512     | 0   | 0.240                       | 0.31                    | ---            | PASS    |
| GPRS1900  | 661     | 0   | 0.24                        | 0.32                    | ---            | PASS    |
| GPRS1900  | 810     | 0   | 0.245                       | 0.31                    | ---            | PASS    |
| EGPRS1900 | 512     | 2   | 0.24                        | 0.32                    | ---            | PASS    |
| EGPRS1900 | 661     | 2   | 0.24                        | 0.31                    | ---            | PASS    |
| EGPRS1900 | 810     | 2   | 0.25                        | 0.31                    | ---            | PASS    |

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GSM850-128



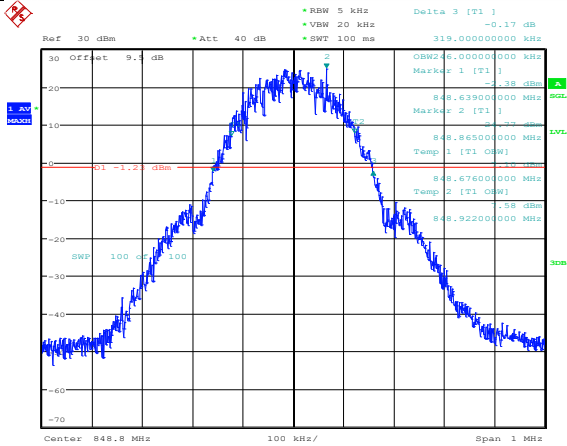
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GSM850-190



@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GSM850-251



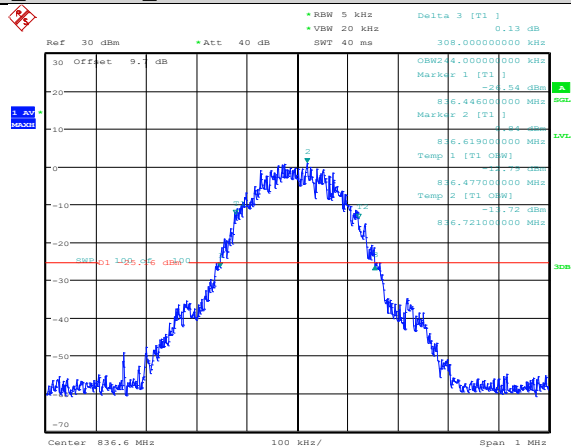
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS850-128



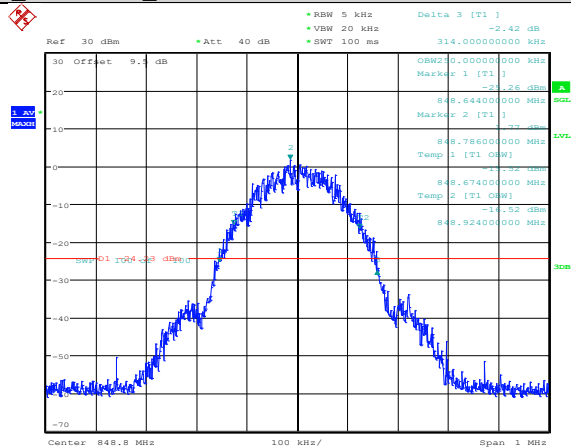
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS850-190



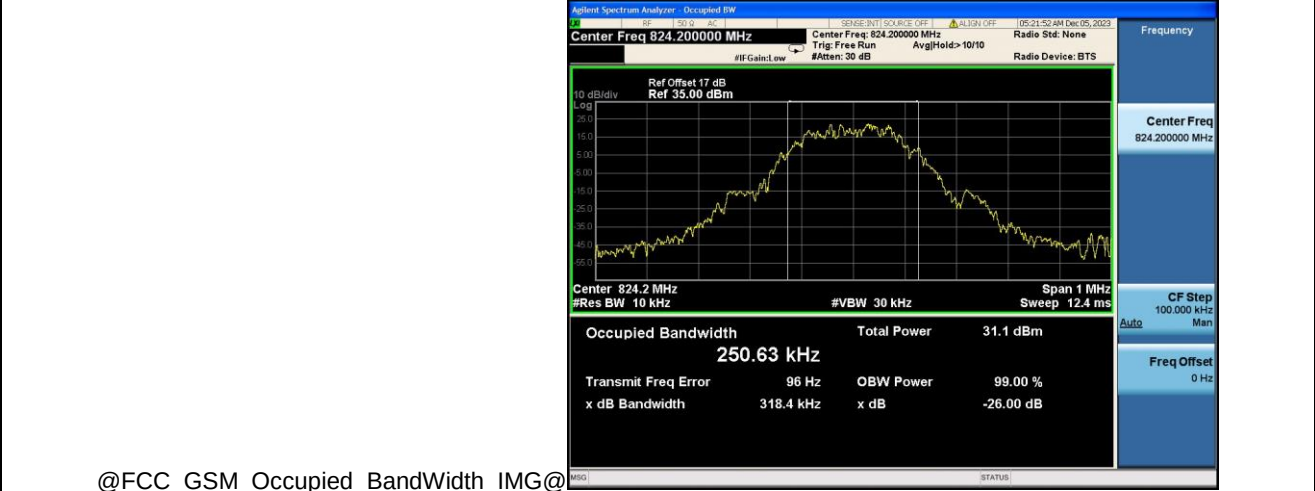
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS850-251

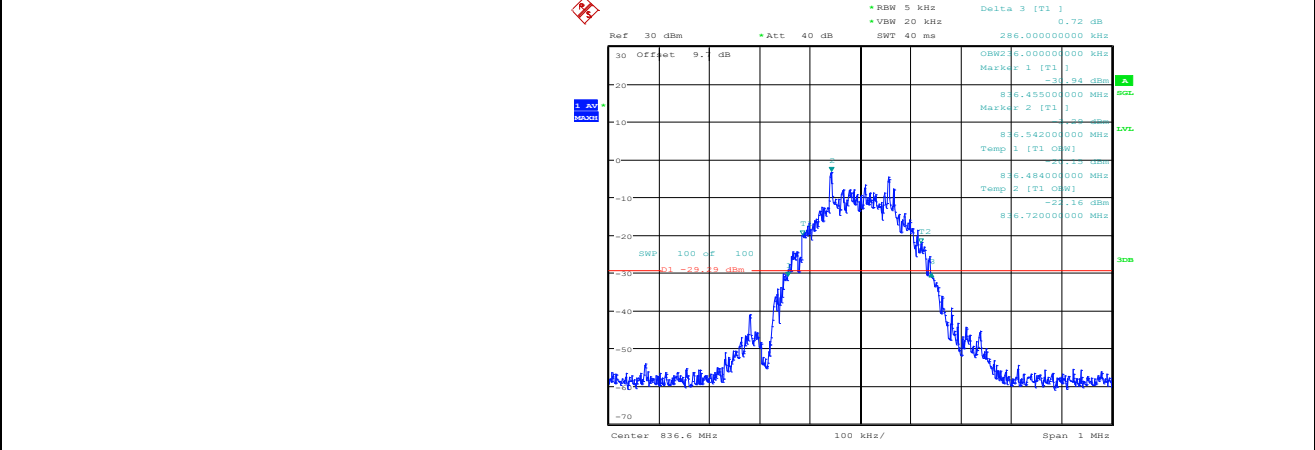


@FCC\_GSM\_Occupied\_BandWidth\_IMG@

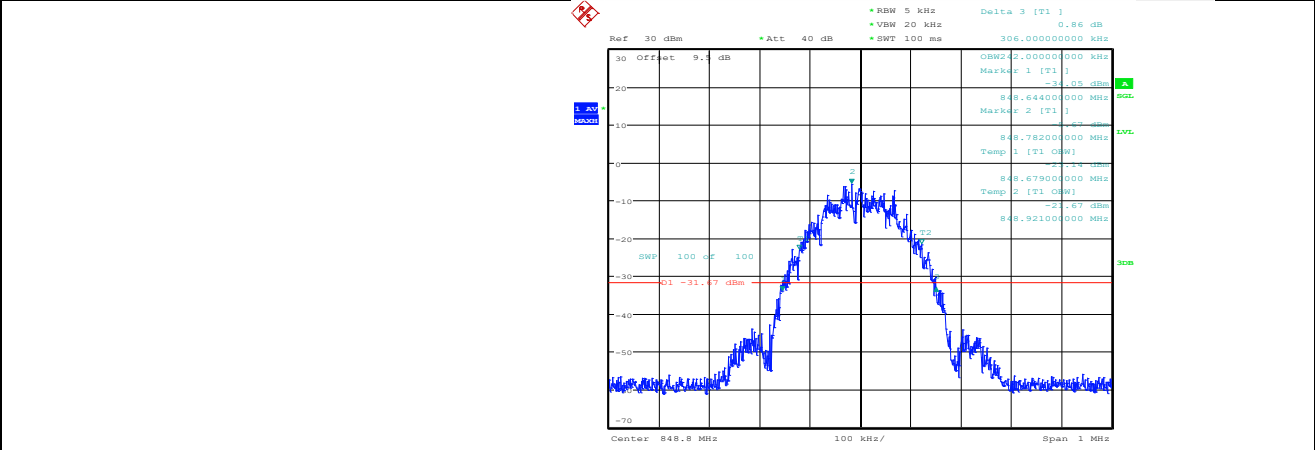
|                                              |
|----------------------------------------------|
| @FCC_GSM_Occupied_BandWidth_IMG@EGPRS850-128 |
|----------------------------------------------|



@FCC\_GSM\_Occupied\_BandWidth\_IMG@EGPRS850-190



|                                              |
|----------------------------------------------|
| @FCC_GSM_Occupied_BandWidth_IMG@EGPRS850-251 |
|----------------------------------------------|

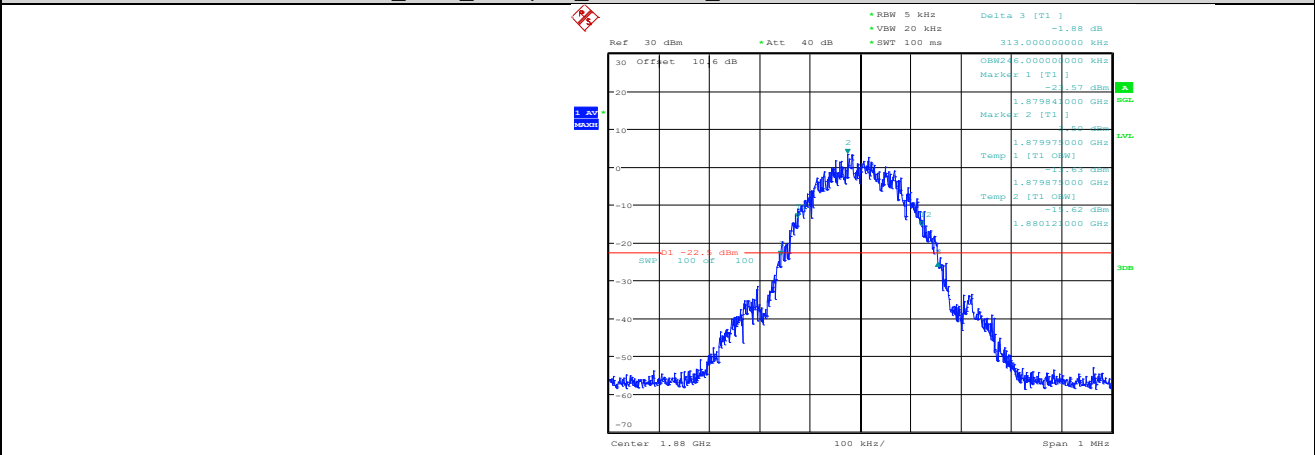


@FCC GSM Occupied BandWidth IMG@

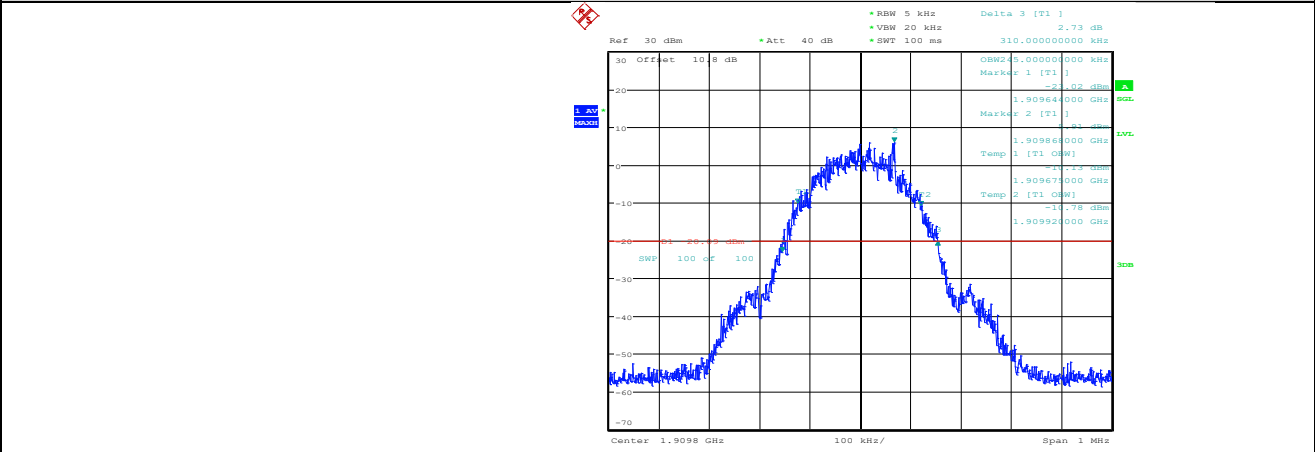
@FCC\_GSM\_Occupied\_BandWidth\_IMG@GSM1900-512



|                                             |
|---------------------------------------------|
| @FCC_GSM_Occupied_BandWidth_IMG@GSM1900-661 |
|---------------------------------------------|



|                                             |
|---------------------------------------------|
| @FCC_GSM_Occupied_BandWidth_IMG@GSM1900-810 |
|---------------------------------------------|

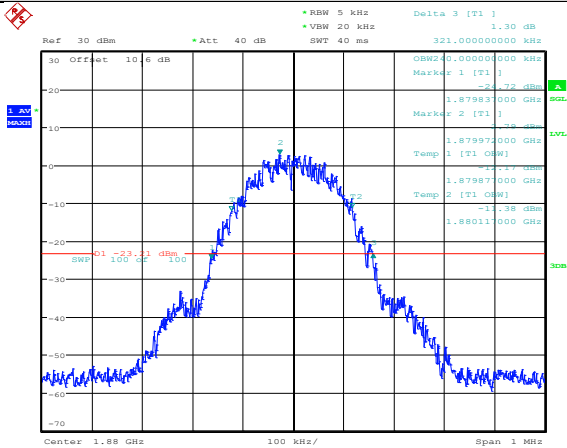


@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS1900-512



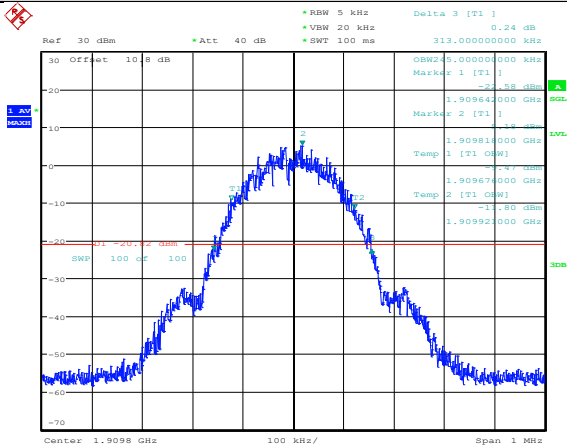
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS1900-661



@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@GPRS1900-810



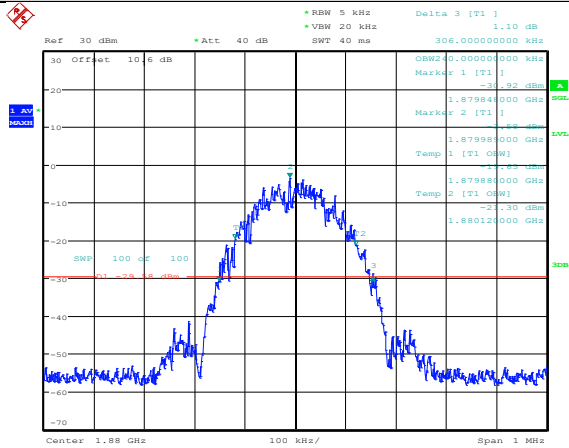
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@FCC\_GSM\_Occupied\_BandWidth\_IMG@EGPRS1900-512



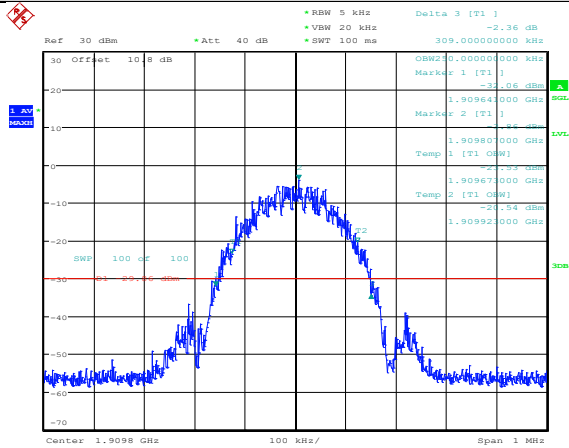
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@EGPRS1900-661



@FCC\_GSM\_Occupied\_BandWidth\_IMG@

@FCC\_GSM\_Occupied\_BandWidth\_IMG@EGPRS1900-810



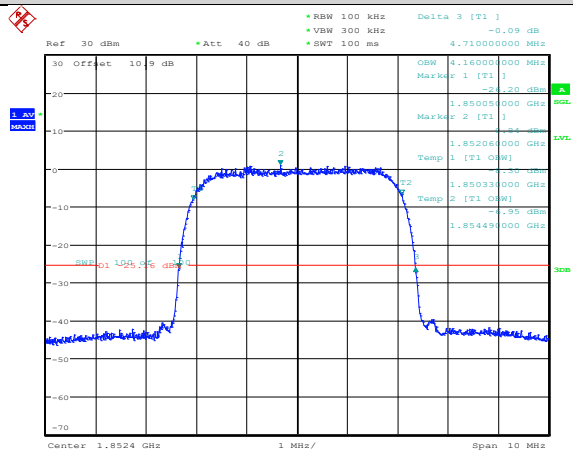
@FCC\_GSM\_Occupied\_BandWidth\_IMG@

| Band  | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 4.16                     | 4.71                 | ---        | PASS    |
| Band2 | 9400    | 4.18                     | 4.70                 | ---        | PASS    |
| Band2 | 9538    | 4.18                     | 4.72                 | ---        | PASS    |

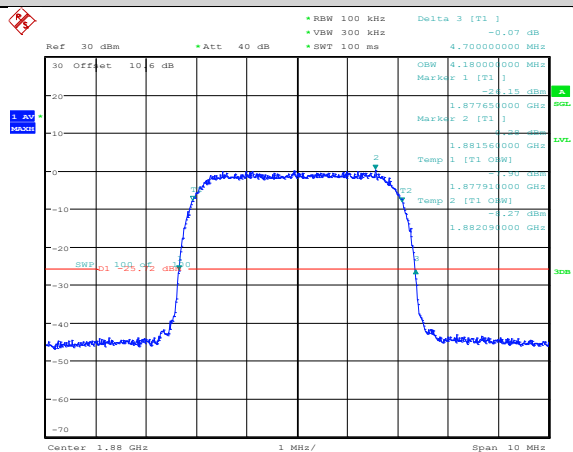
| Band  | Channel | SubTest | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 1       | 4.17                     | 4.68                 | ---        | PASS    |
| Band2 | 9262    | 2       | 4.16                     | 4.70                 | ---        | PASS    |
| Band2 | 9262    | 3       | 4.16                     | 4.69                 | ---        | PASS    |
| Band2 | 9262    | 4       | 4.17                     | 4.69                 | ---        | PASS    |
| Band2 | 9400    | 1       | 4.17                     | 4.70                 | ---        | PASS    |
| Band2 | 9400    | 2       | 4.18                     | 4.71                 | ---        | PASS    |
| Band2 | 9400    | 3       | 4.18                     | 4.70                 | ---        | PASS    |
| Band2 | 9400    | 4       | 4.17                     | 4.69                 | ---        | PASS    |
| Band2 | 9538    | 1       | 4.18                     | 4.69                 | ---        | PASS    |
| Band2 | 9538    | 2       | 4.17                     | 4.69                 | ---        | PASS    |
| Band2 | 9538    | 3       | 4.17                     | 4.71                 | ---        | PASS    |
| Band2 | 9538    | 4       | 4.18                     | 4.69                 | ---        | PASS    |

| Band  | Channel | SubTest | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|--------------------------|----------------------|------------|---------|
| Band2 | 9262    | 1       | 4.18                     | 4.71                 | ---        | PASS    |
| Band2 | 9262    | 2       | 4.18                     | 4.70                 | ---        | PASS    |
| Band2 | 9262    | 3       | 4.17                     | 4.69                 | ---        | PASS    |
| Band2 | 9400    | 1       | 4.18                     | 4.71                 | ---        | PASS    |
| Band2 | 9400    | 2       | 4.17                     | 4.72                 | ---        | PASS    |
| Band2 | 9538    | 1       | 4.18                     | 4.71                 | ---        | PASS    |
| Band2 | 9538    | 2       | 4.18                     | 4.70                 | ---        | PASS    |

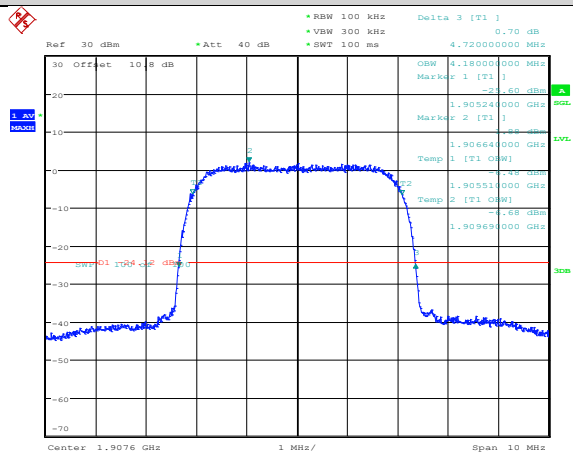
Band2-9262



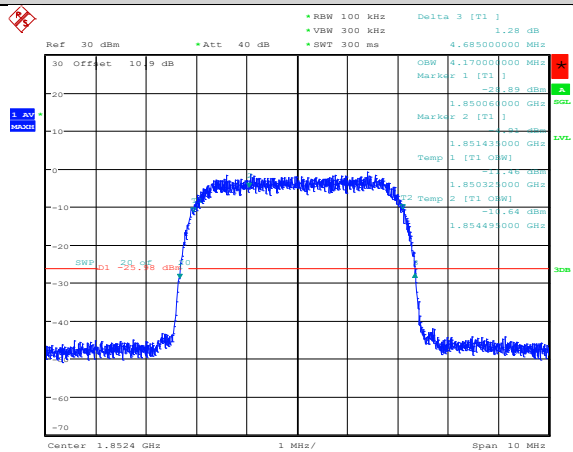
Band2-9400



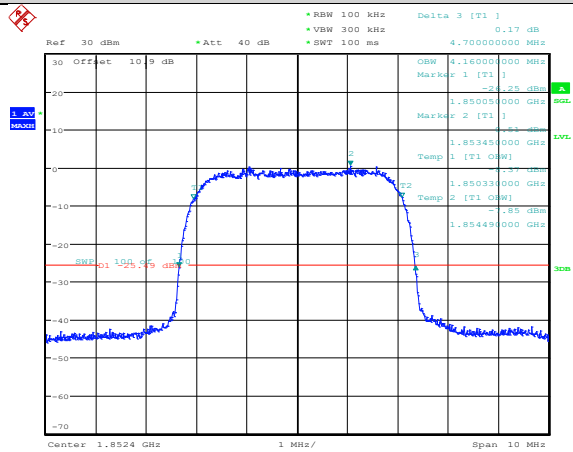
Band2-9538



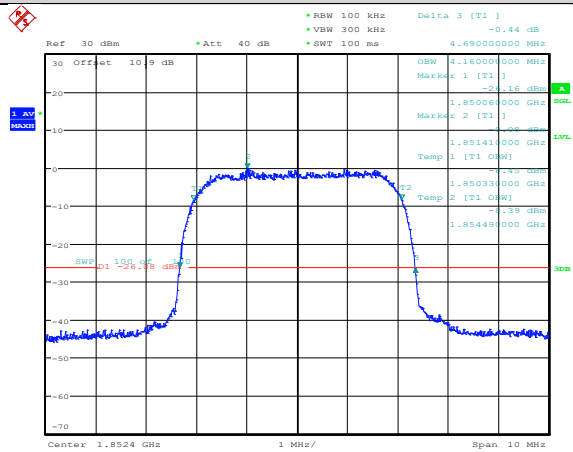
Band2-9262-1



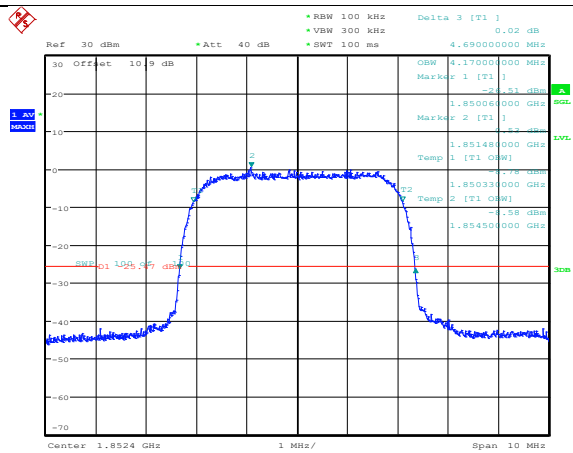
Band2-9262-2



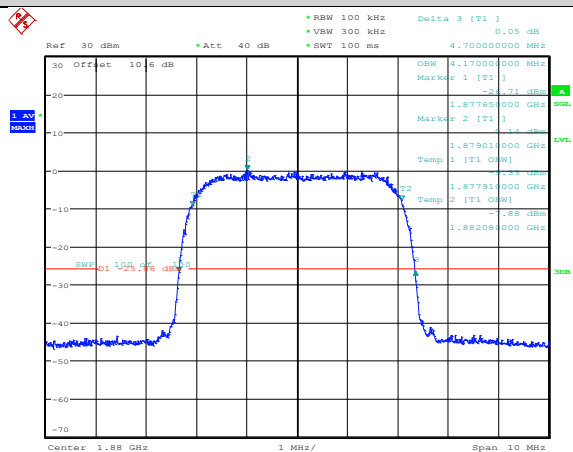
Band2-9262-3



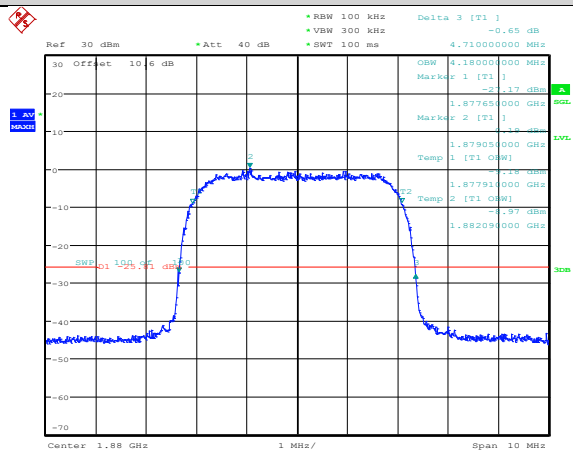
Band2-9262-4



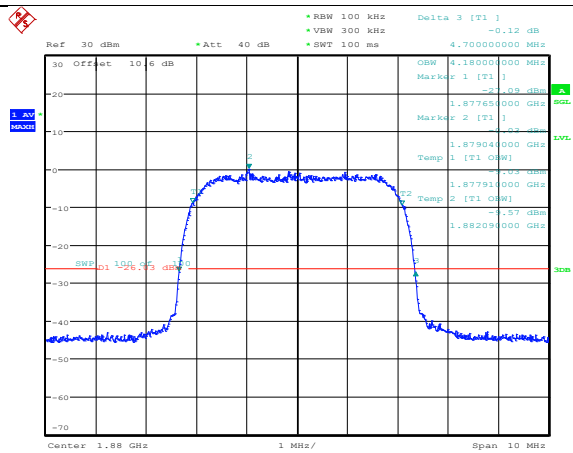
Band2-9400-1



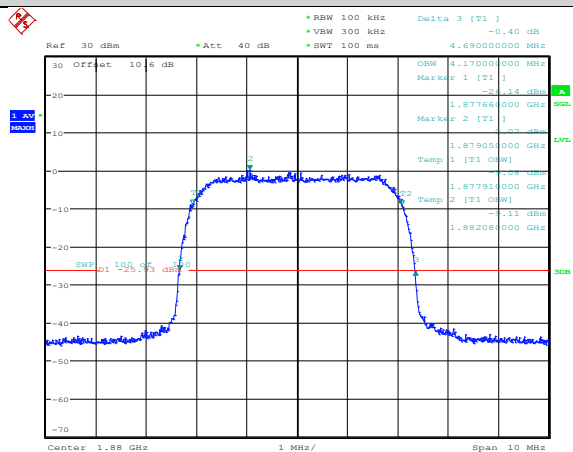
Band2-9400-2



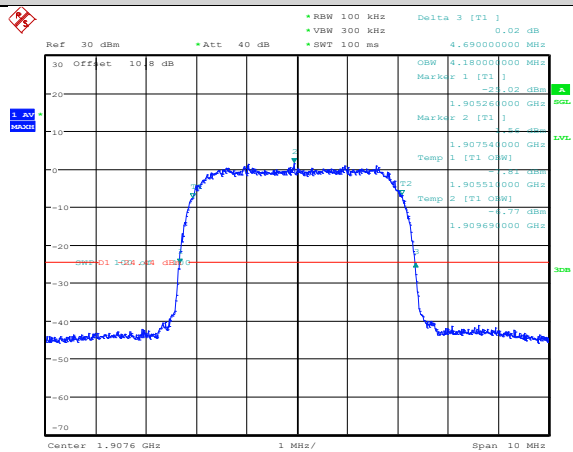
Band2-9400-3



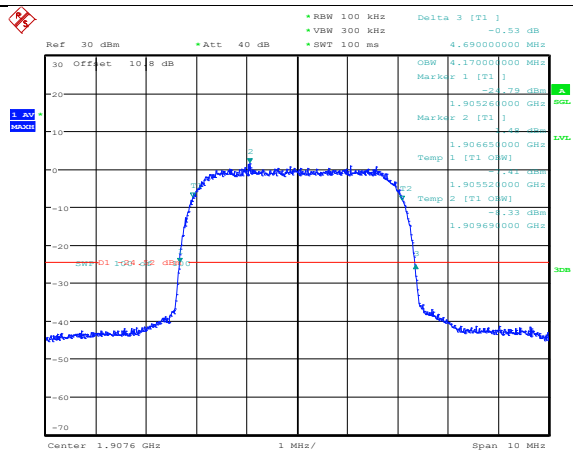
Band2-9400-4



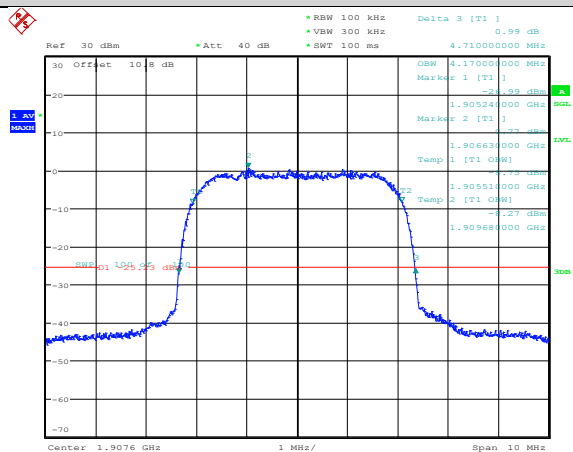
Band2-9538-1



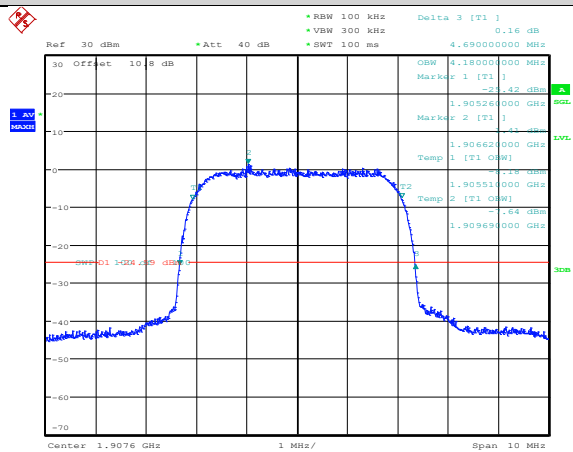
Band2-9538-2



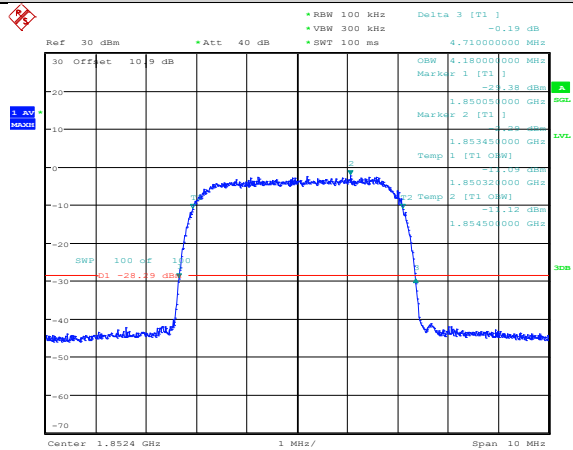
Band2-9538-3



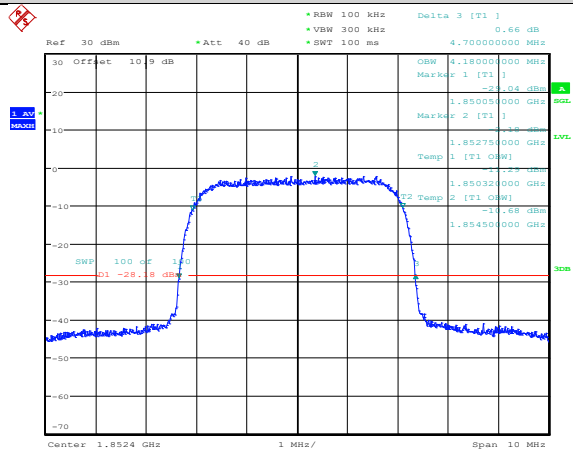
Band2-9538-4



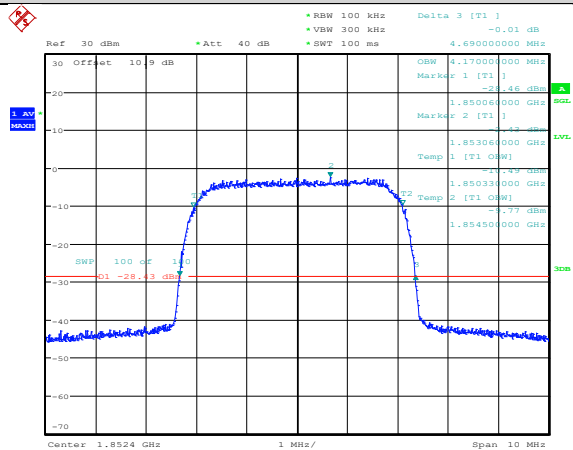
Band2-9262-1



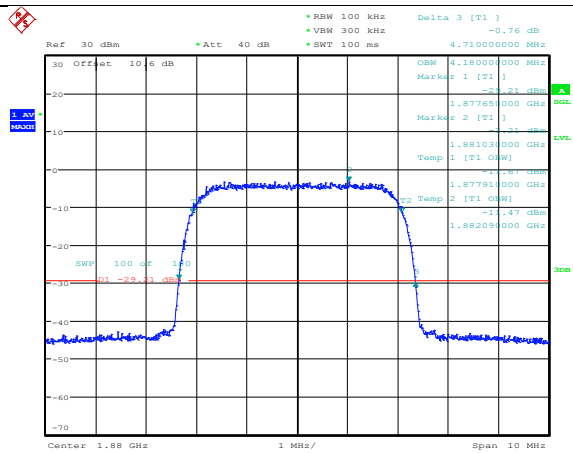
Band2-9262-2



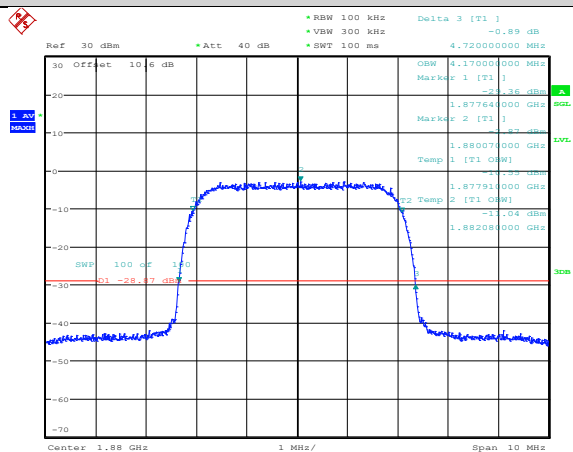
Band2-9262-3



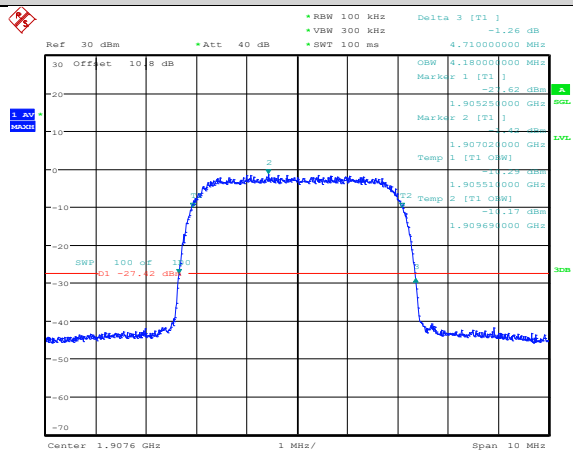
Band2-9400-1



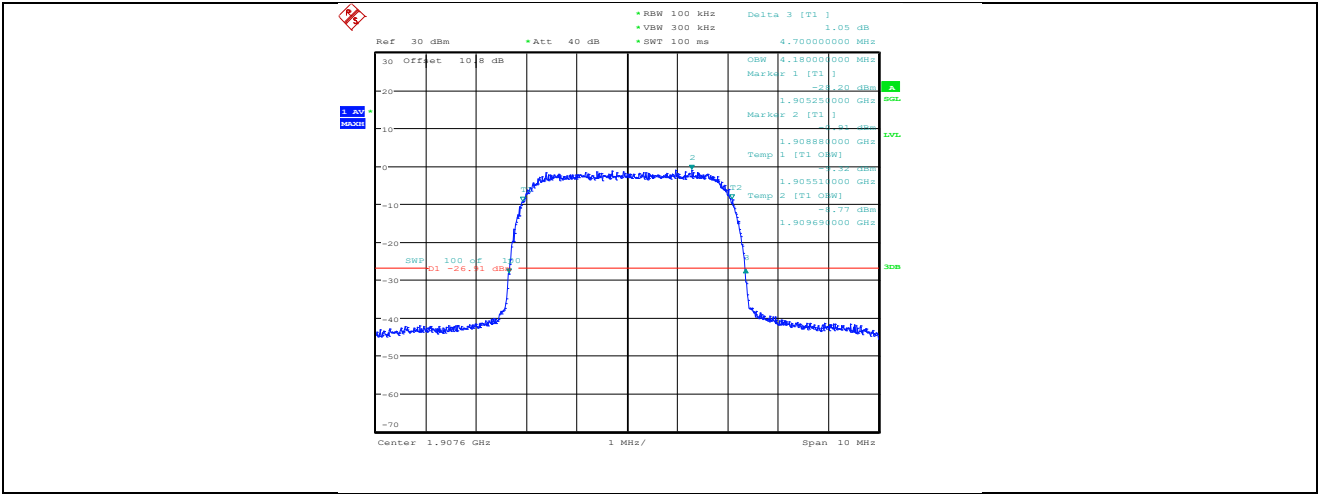
Band2-9400-2



Band2-9538-1



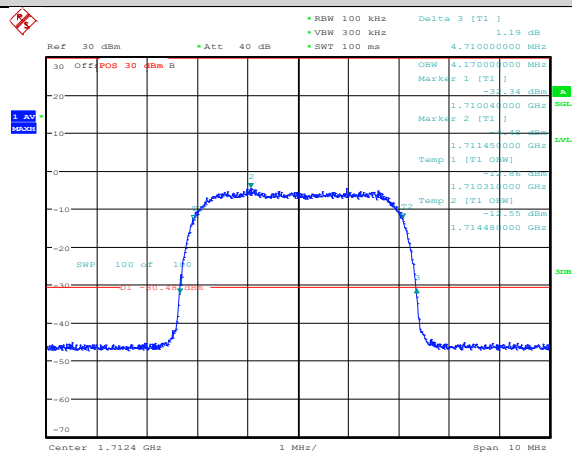
Band2-9538-2



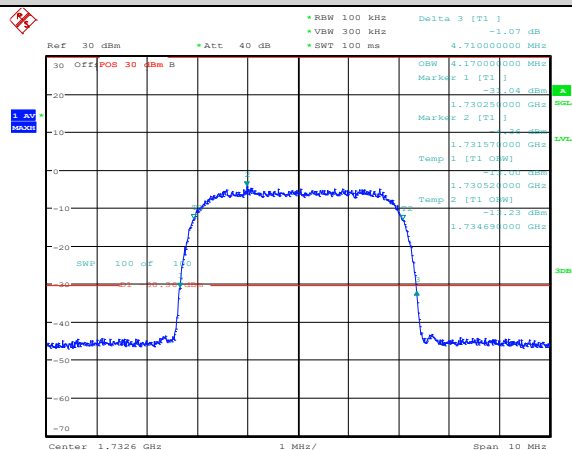
| Band  | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|--------------------------|----------------------|------------|---------|
| Band4 | 1312    | 4.17                     | 4.71                 | ---        | PASS    |
| Band4 | 1413    | 4.17                     | 4.71                 | ---        | PASS    |
| Band4 | 1513    | 4.17                     | 4.70                 | ---        | PASS    |

| Band  | Channel | SubTest | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|--------------------------|----------------------|------------|---------|
| Band4 | 1312    | 1       | 4.18                     | 4.71                 | ---        | PASS    |
| Band4 | 1413    | 1       | 4.17                     | 4.71                 | ---        | PASS    |
| Band4 | 1513    | 1       | 4.18                     | 4.72                 | ---        | PASS    |

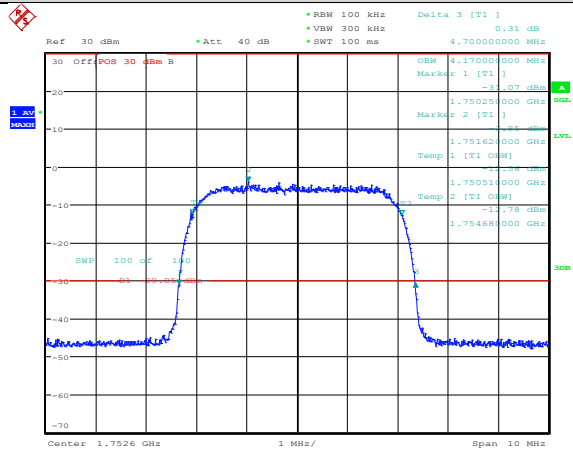
### Band4-1312



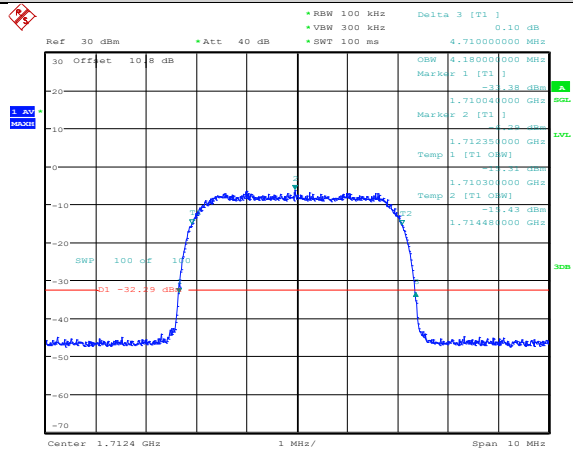
### Band4-1413



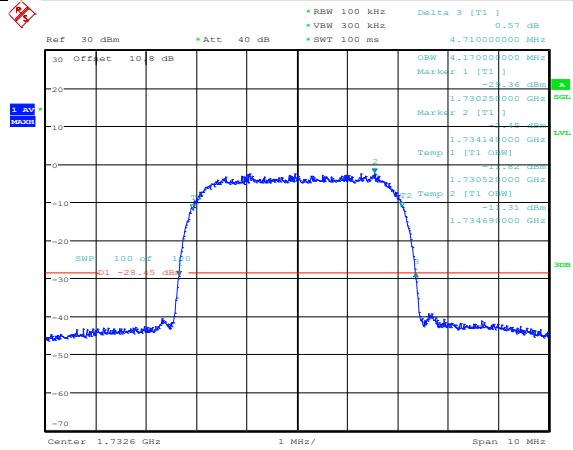
Band4-1513

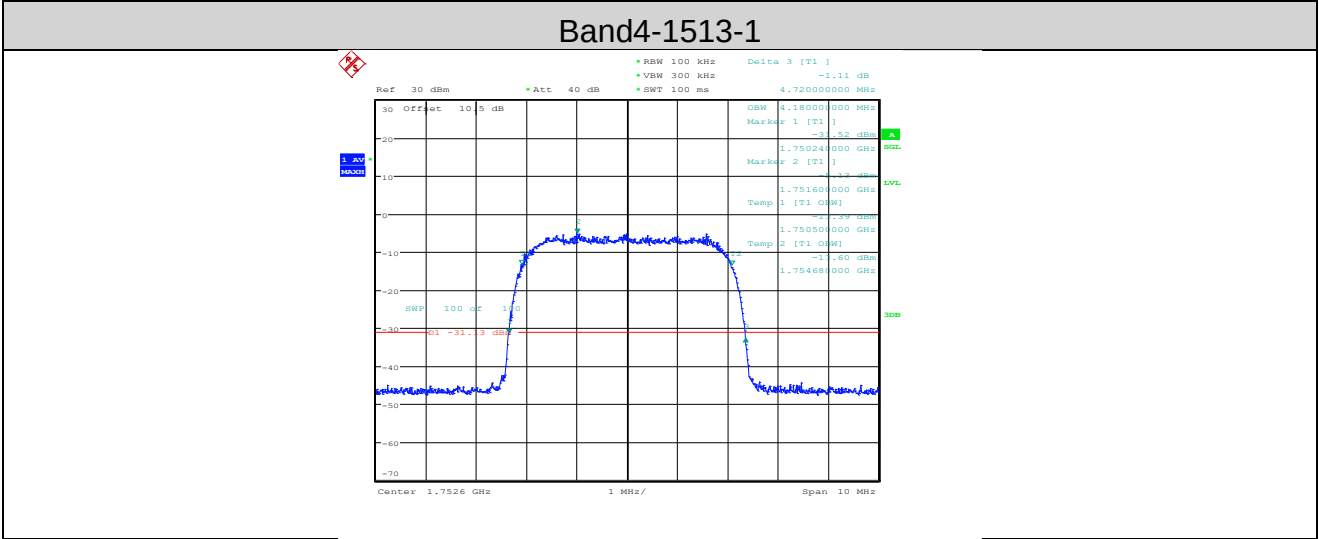


Band4-1312-1



Band4-1413-1



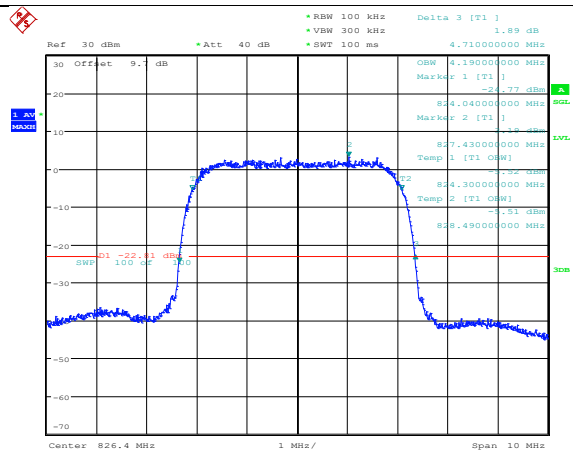


| Band  | Channel | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band5 | 4132    | 4.19                        | 4.71                    | ---        | PASS    |
| Band5 | 4182    | 4.16                        | 4.70                    | ---        | PASS    |
| Band5 | 4233    | 4.18                        | 4.69                    | ---        | PASS    |

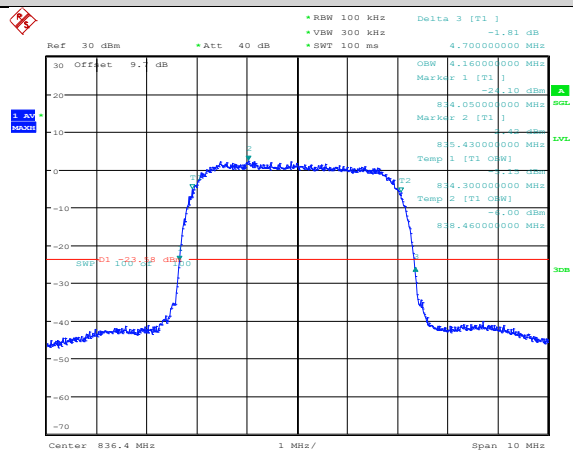
| Band  | Channel | SubTest | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band5 | 4132    | 1       | 4.13                        | 4.73                    | ---        | PASS    |
| Band5 | 4132    | 2       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4132    | 3       | 4.17                        | 4.73                    | ---        | PASS    |
| Band5 | 4132    | 4       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 1       | 4.17                        | 4.71                    | ---        | PASS    |
| Band5 | 4182    | 2       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 3       | 4.17                        | 4.71                    | ---        | PASS    |
| Band5 | 4182    | 4       | 4.17                        | 4.71                    | ---        | PASS    |
| Band5 | 4233    | 1       | 4.17                        | 4.73                    | ---        | PASS    |
| Band5 | 4233    | 2       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4233    | 3       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4233    | 4       | 4.18                        | 4.71                    | ---        | PASS    |

| Band  | Channel | SubTest | Occupied Bandwidth<br>(kHz) | 26dB Bandwidth<br>(kHz) | Limit(kHz) | Verdict |
|-------|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band5 | 4132    | 1       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4132    | 2       | 4.18                        | 4.73                    | ---        | PASS    |
| Band5 | 4132    | 3       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4132    | 4       | 4.18                        | 4.74                    | ---        | PASS    |
| Band5 | 4132    | 5       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 1       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 2       | 4.19                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 3       | 4.18                        | 4.73                    | ---        | PASS    |
| Band5 | 4182    | 4       | 4.18                        | 4.72                    | ---        | PASS    |
| Band5 | 4182    | 5       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4233    | 1       | 4.17                        | 4.72                    | ---        | PASS    |
| Band5 | 4233    | 2       | 4.17                        | 4.73                    | ---        | PASS    |
| Band5 | 4233    | 3       | 4.17                        | 4.73                    | ---        | PASS    |
| Band5 | 4233    | 4       | 4.18                        | 4.75                    | ---        | PASS    |
| Band5 | 4233    | 5       | 4.17                        | 4.72                    | ---        | PASS    |

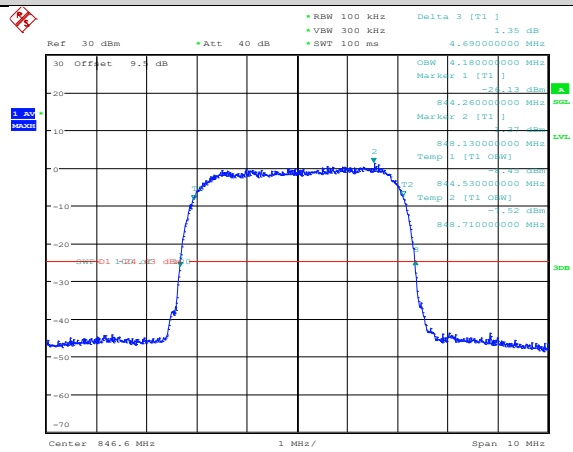
Band5-4132



Band5-4182



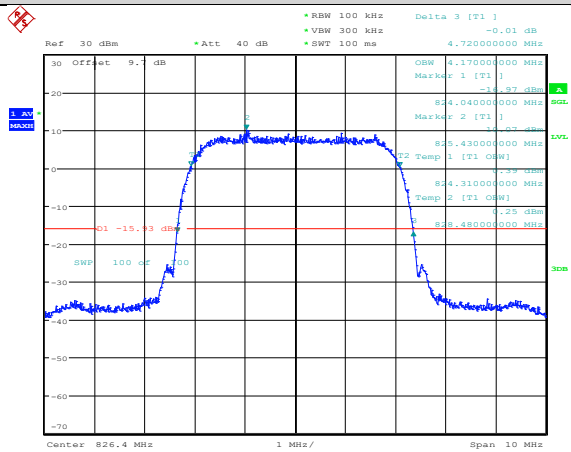
Band5-4233



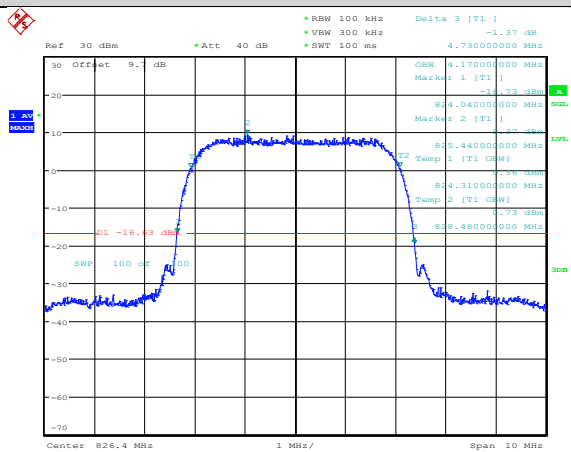
Band5-4132-1



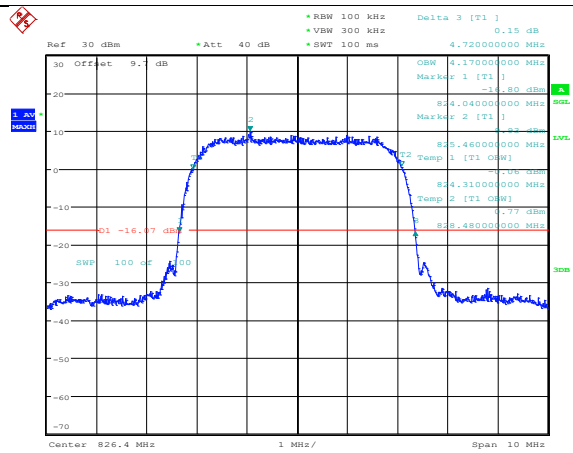
Band5-4132-2



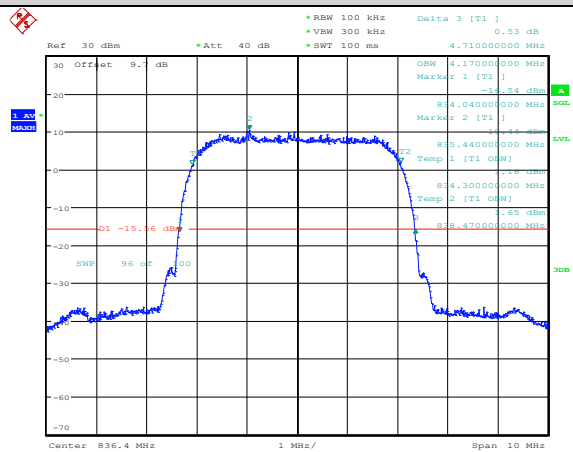
Band5-4132-3



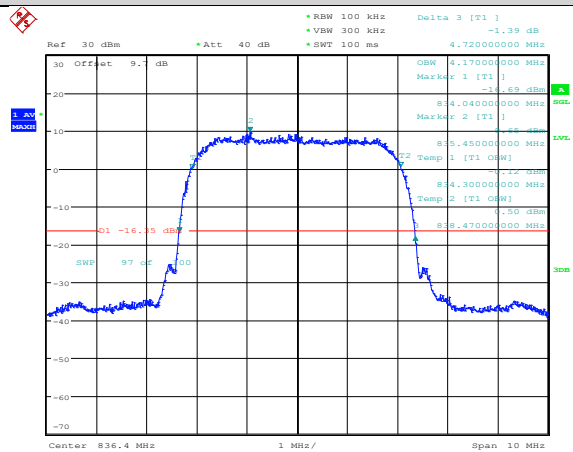
Band5-4132-4



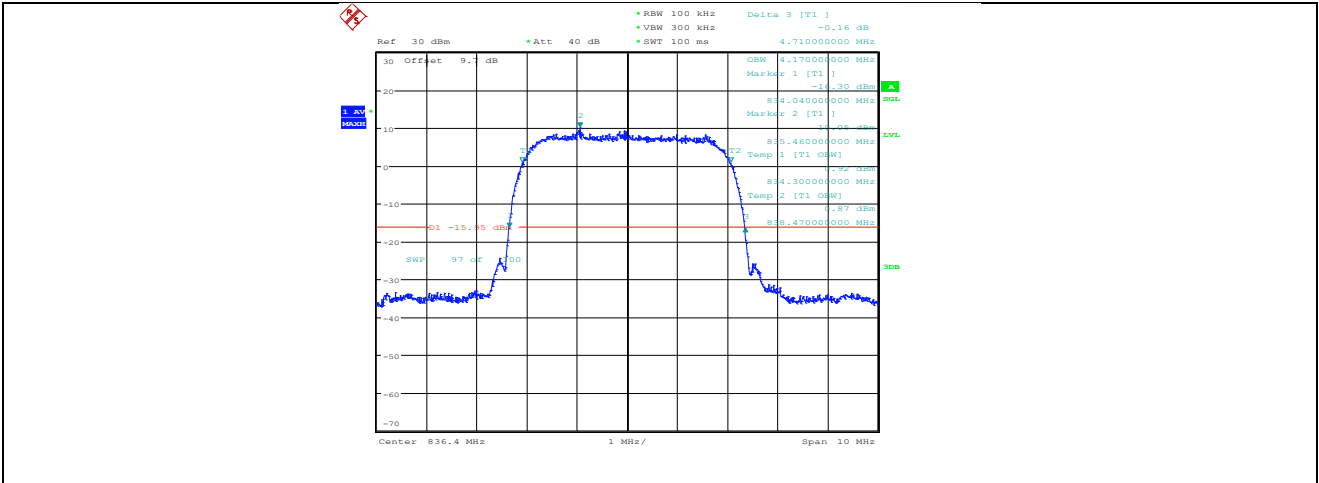
Band5-4182-1



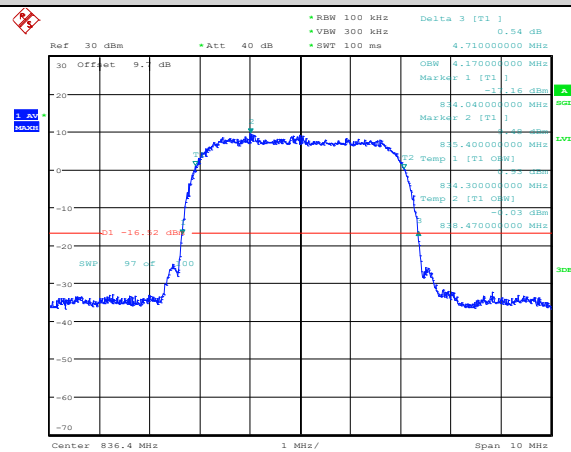
Band5-4182-2



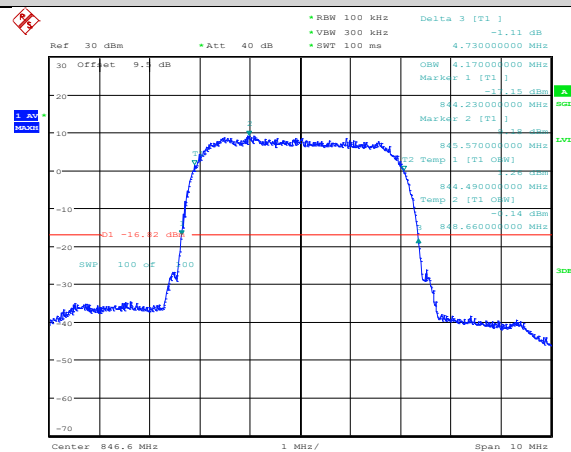
Band5-4182-3



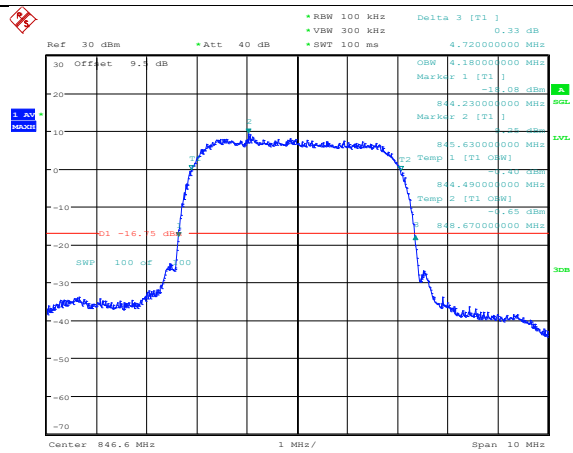
Band5-4182-4



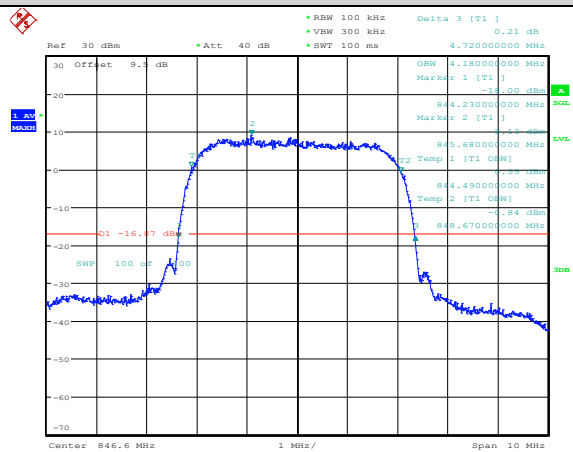
Band5-4233-1



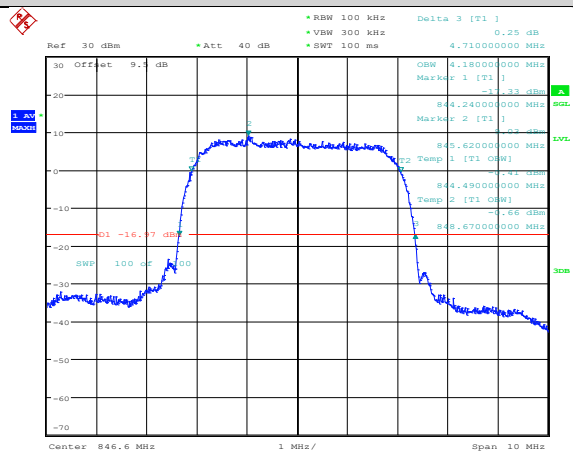
Band5-4233-2



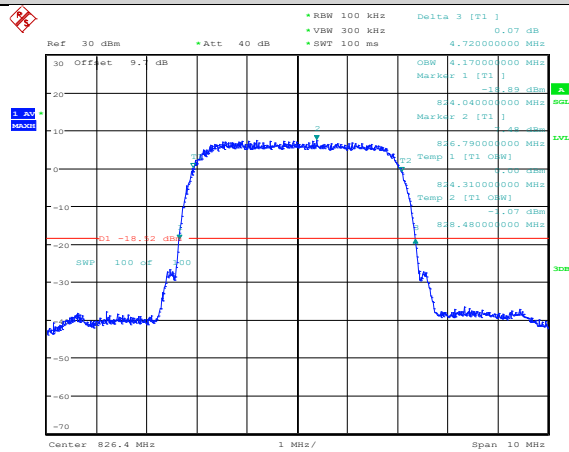
Band5-4233-3



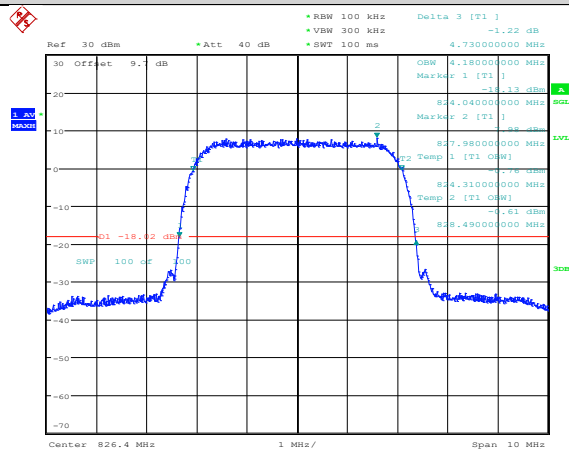
Band5-4233-4



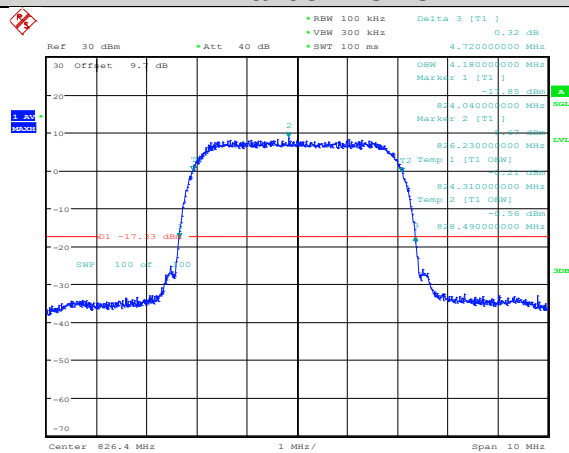
Band5-4132-1



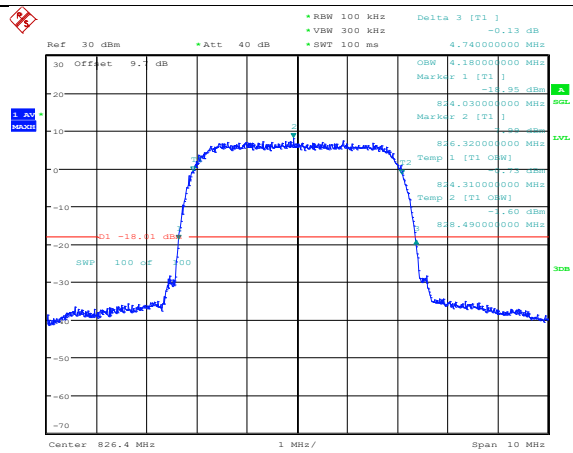
Band5-4132-2



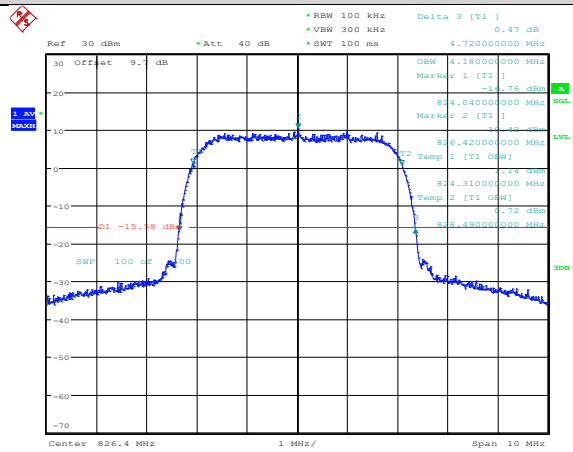
Band5-4132-3



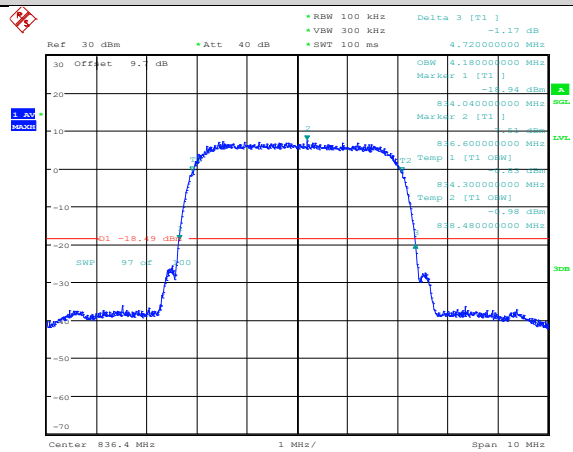
Band5-4132-4



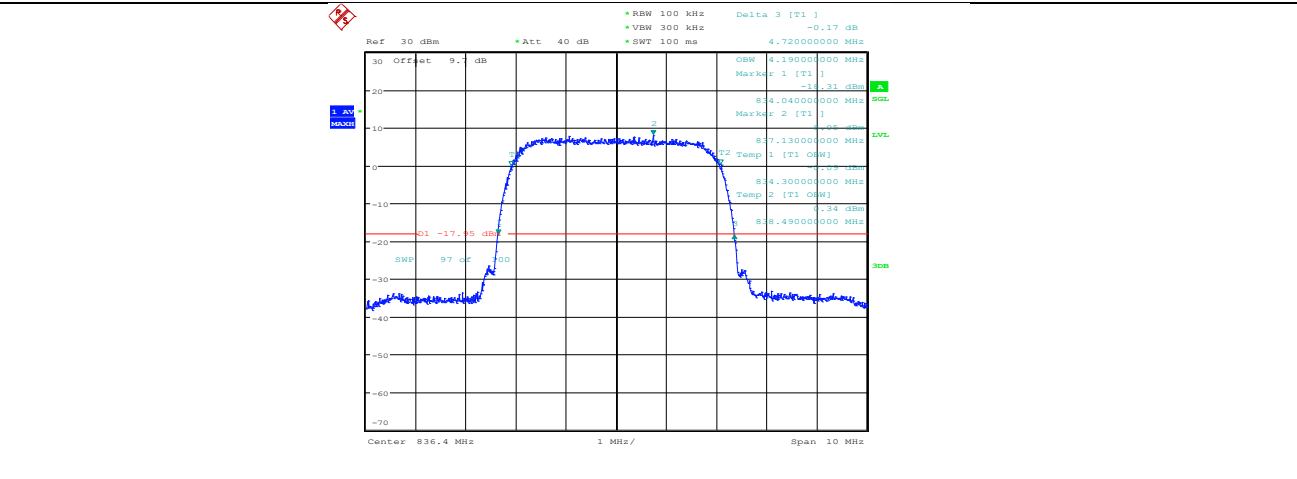
Band5-4132-5



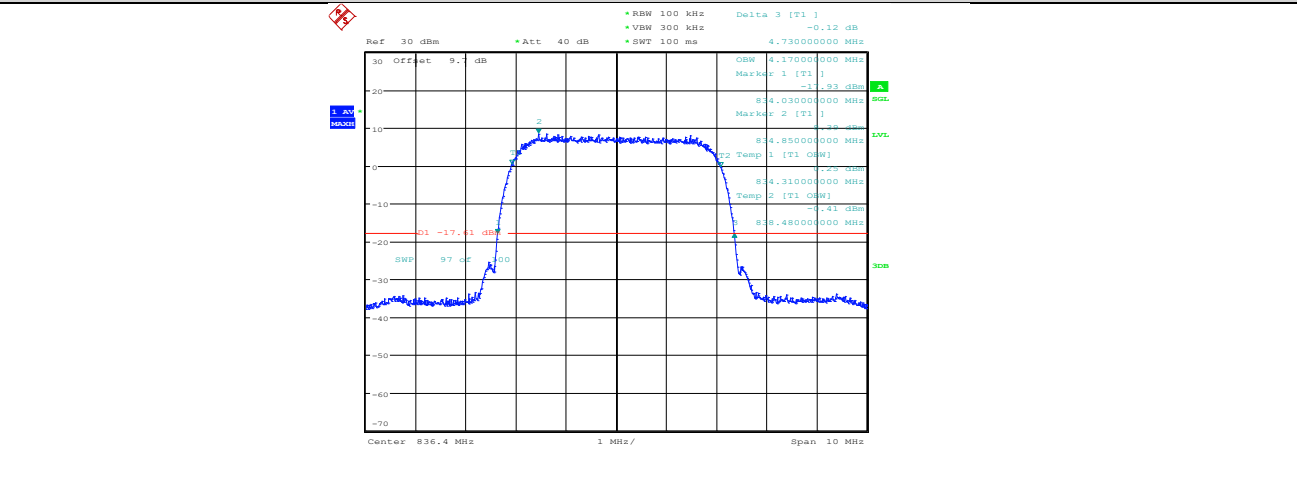
Band5-4182-1



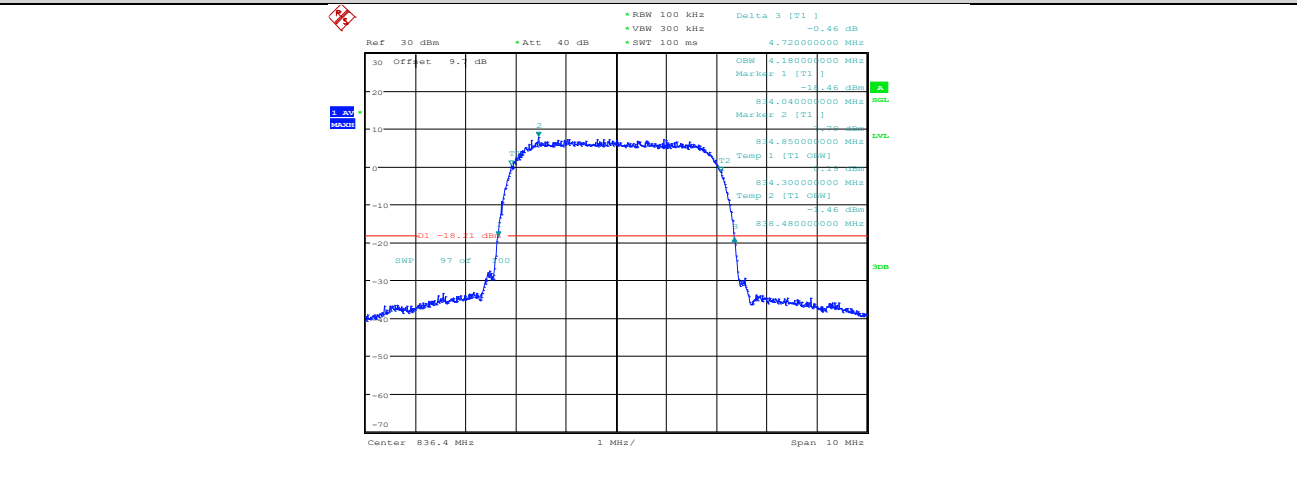
Band5-4182-2



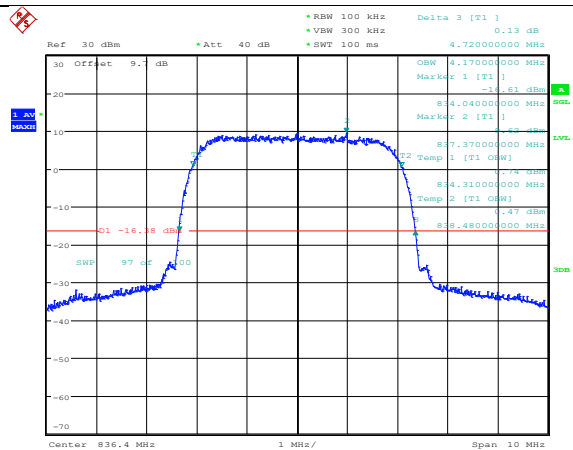
Band5-4182-3



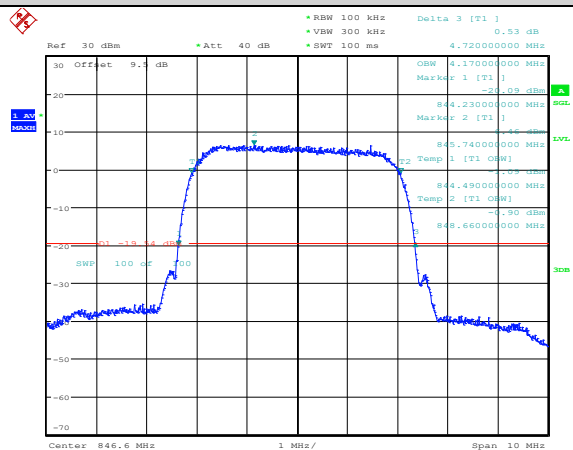
Band5-4182-4



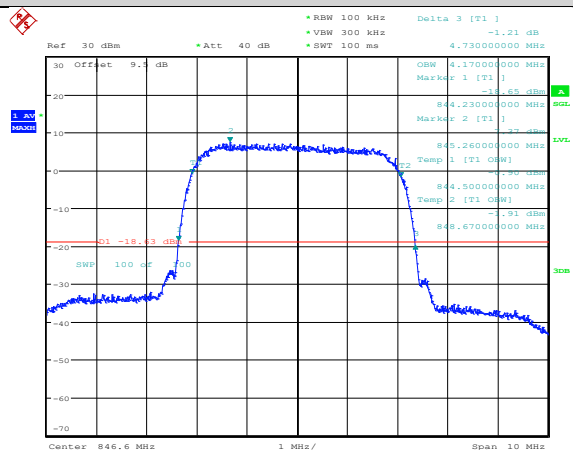
Band5-4182-5



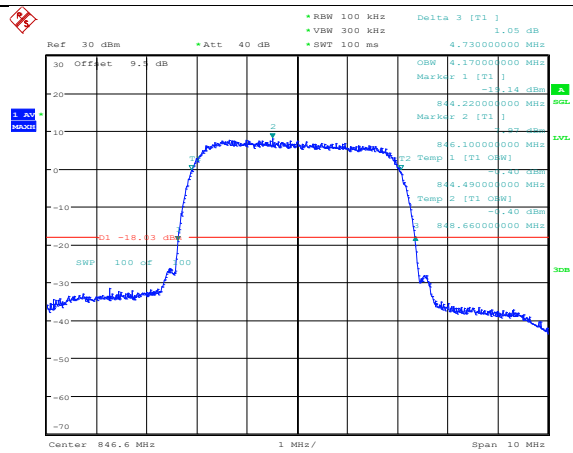
Band5-4233-1



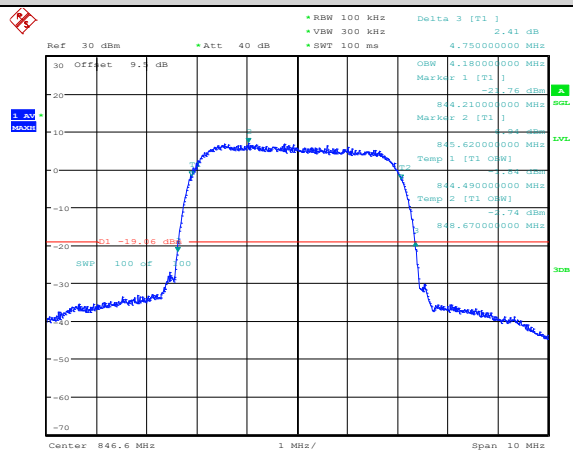
Band5-4233-2



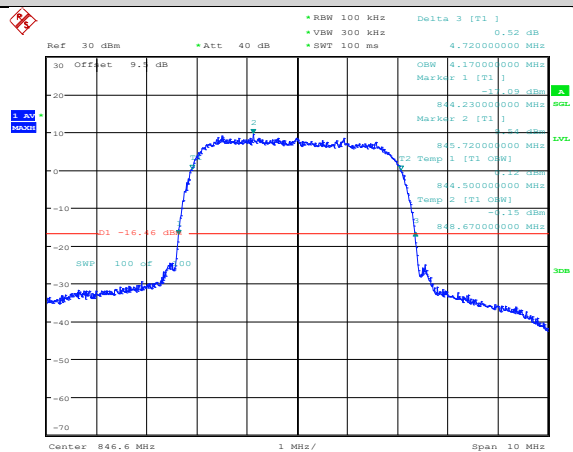
Band5-4233-3



Band5-4233-4



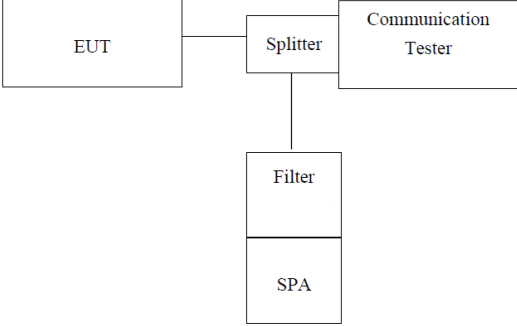
Band5-4233-5



#### 4.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

#### 4.7 Out of band emission at antenna terminals

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

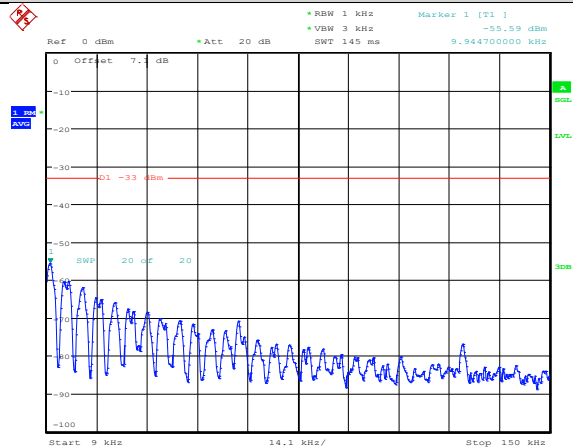
Test plot as follows:

Note: During the conducted spurious emission test, a band filter was used. The information of the filter is reported at section 6.0 (refer to item 24, 25).

| Band     | Channel | PCL | Frequency<br>Range(MHz) | Max.Freq.<br>(MHz) | Result<br>(dBm) | Limit<br>(dBm) | Verdict |
|----------|---------|-----|-------------------------|--------------------|-----------------|----------------|---------|
| GSM850   | 128     | 5   | 0.009~0.15MHz           | 0.01               | -55.59          | -33            | PASS    |
| GSM850   | 128     | 5   | 0.15~30MHz              | 0.19               | -58.32          | -13            | PASS    |
| GSM850   | 128     | 5   | 30~1000MHz              | 423.43             | -49.37          | -13            | PASS    |
| GSM850   | 128     | 5   | 1000~10000MHz           | 1648.3             | -28.19          | -13            | PASS    |
| GSM850   | 190     | 5   | 0.009~0.15MHz           | 0.01               | -59.3           | -33            | PASS    |
| GSM850   | 190     | 5   | 0.15~30MHz              | 0.2                | -58.05          | -13            | PASS    |
| GSM850   | 190     | 5   | 30~1000MHz              | 115.52             | -49.73          | -13            | PASS    |
| GSM850   | 190     | 5   | 1000~10000MHz           | 1673.2             | -33.47          | -13            | PASS    |
| GSM850   | 251     | 5   | 0.009~0.15MHz           | 0.01               | -60.6           | -33            | PASS    |
| GSM850   | 251     | 5   | 0.15~30MHz              | 0.2                | -57.99          | -13            | PASS    |
| GSM850   | 251     | 5   | 30~1000MHz              | 273.66             | -49.5           | -13            | PASS    |
| GSM850   | 251     | 5   | 1000~10000MHz           | 1697.5             | -32.57          | -13            | PASS    |
| GPRS850  | 128     | 5   | 0.009~0.15MHz           | 0.06               | -74.43          | -33            | PASS    |
| GPRS850  | 128     | 5   | 0.15~30MHz              | 0.19               | -56.79          | -13            | PASS    |
| GPRS850  | 128     | 5   | 30~1000MHz              | 346.83             | -49.62          | -13            | PASS    |
| GPRS850  | 128     | 5   | 1000~10000MHz           | 3171.1             | -44.94          | -13            | PASS    |
| GPRS850  | 190     | 5   | 0.009~0.15MHz           | 0.06               | -74.81          | -33            | PASS    |
| GPRS850  | 190     | 5   | 0.15~30MHz              | 0.2                | -58.26          | -13            | PASS    |
| GPRS850  | 190     | 5   | 30~1000MHz              | 189.34             | -49.72          | -13            | PASS    |
| GPRS850  | 190     | 5   | 1000~10000MHz           | 3180.1             | -46.57          | -13            | PASS    |
| GPRS850  | 251     | 5   | 0.009~0.15MHz           | 0.06               | -74.81          | -33            | PASS    |
| GPRS850  | 251     | 5   | 0.15~30MHz              | 0.19               | -58.53          | -13            | PASS    |
| GPRS850  | 251     | 5   | 30~1000MHz              | 308.65             | -49.5           | -13            | PASS    |
| GPRS850  | 251     | 5   | 1000~10000MHz           | 3197.5             | -46.47          | -13            | PASS    |
| EGPRS850 | 128     | 8   | 0.009~0.15MHz           | 0.06               | -74.97          | -33            | PASS    |
| EGPRS850 | 128     | 8   | 0.15~30MHz              | 0.18               | -57.97          | -13            | PASS    |
| EGPRS850 | 128     | 8   | 30~1000MHz              | 60.81              | -49.4           | -13            | PASS    |
| EGPRS850 | 128     | 8   | 1000~10000MHz           | 3170.8             | -45.19          | -13            | PASS    |
| EGPRS850 | 190     | 8   | 0.009~0.15MHz           | 0.06               | -75.09          | -33            | PASS    |
| EGPRS850 | 190     | 8   | 0.15~30MHz              | 0.25               | -60.46          | -13            | PASS    |
| EGPRS850 | 190     | 8   | 30~1000MHz              | 137.61             | -49.25          | -13            | PASS    |
| EGPRS850 | 190     | 8   | 1000~10000MHz           | 3184.6             | -44.36          | -13            | PASS    |
| EGPRS850 | 251     | 8   | 0.009~0.15MHz           | 0.04               | -75.56          | -33            | PASS    |
| EGPRS850 | 251     | 8   | 0.15~30MHz              | 0.19               | -57.86          | -13            | PASS    |
| EGPRS850 | 251     | 8   | 30~1000MHz              | 376.13             | -49.4           | -13            | PASS    |
| EGPRS850 | 251     | 8   | 1000~10000MHz           | 3145.3             | -45.51          | -13            | PASS    |
| GSM1900  | 512     | 0   | 0.009~0.15MHz           | 0.04               | -74.99          | -43            | PASS    |

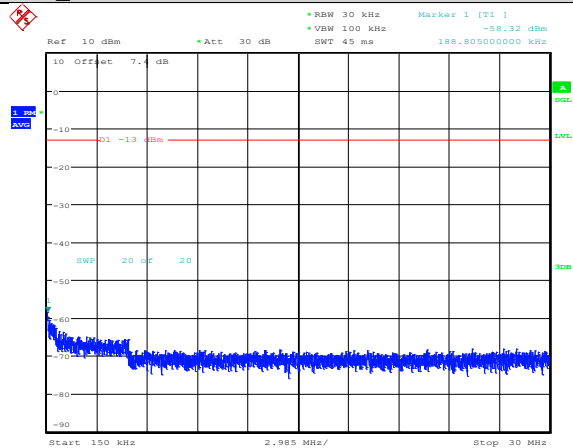
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|-----------|-----|---|---------------|---------|--------|-----|------|
| GSM1900   | 512 | 0 | 0.15~30MHz    | 0.19    | -59.89 | -23 | PASS |
| GSM1900   | 512 | 0 | 30~1000MHz    | 449.59  | -49.11 | -13 | PASS |
| GSM1900   | 512 | 0 | 1000~18000MHz | 3191.3  | -46.98 | -13 | PASS |
| GSM1900   | 661 | 0 | 0.009~0.15MHz | 0.07    | -73.45 | -43 | PASS |
| GSM1900   | 661 | 0 | 0.15~30MHz    | 0.18    | -58.49 | -23 | PASS |
| GSM1900   | 661 | 0 | 30~1000MHz    | 933.65  | -48.9  | -13 | PASS |
| GSM1900   | 661 | 0 | 1000~18000MHz | 3170.33 | -46.41 | -13 | PASS |
| GSM1900   | 810 | 0 | 0.009~0.15MHz | 0.04    | -76.24 | -43 | PASS |
| GSM1900   | 810 | 0 | 0.15~30MHz    | 0.2     | -57.27 | -23 | PASS |
| GSM1900   | 810 | 0 | 30~1000MHz    | 238.91  | -49.05 | -13 | PASS |
| GSM1900   | 810 | 0 | 1000~18000MHz | 3569.83 | -47.2  | -13 | PASS |
| GPRS1900  | 512 | 0 | 0.009~0.15MHz | 0.07    | -72.86 | -43 | PASS |
| GPRS1900  | 512 | 0 | 0.15~30MHz    | 0.18    | -58.34 | -23 | PASS |
| GPRS1900  | 512 | 0 | 30~1000MHz    | 469.83  | -49.06 | -13 | PASS |
| GPRS1900  | 512 | 0 | 1000~18000MHz | 3183.93 | -46.07 | -13 | PASS |
| GPRS1900  | 661 | 0 | 0.009~0.15MHz | 0.07    | -73.45 | -43 | PASS |
| GPRS1900  | 661 | 0 | 0.15~30MHz    | 0.19    | -58.16 | -23 | PASS |
| GPRS1900  | 661 | 0 | 30~1000MHz    | 975.17  | -48.83 | -13 | PASS |
| GPRS1900  | 661 | 0 | 1000~18000MHz | 3189.6  | -46.14 | -13 | PASS |
| GPRS1900  | 810 | 0 | 0.009~0.15MHz | 0.07    | -73.81 | -43 | PASS |
| GPRS1900  | 810 | 0 | 0.15~30MHz    | 0.18    | -57.91 | -23 | PASS |
| GPRS1900  | 810 | 0 | 30~1000MHz    | 190.34  | -49.11 | -13 | PASS |
| GPRS1900  | 810 | 0 | 1000~18000MHz | 3191.87 | -46.96 | -13 | PASS |
| EGPRS1900 | 512 | 2 | 0.009~0.15MHz | 0.07    | -74.42 | -43 | PASS |
| EGPRS1900 | 512 | 2 | 0.15~30MHz    | 0.19    | -56.65 | -23 | PASS |
| EGPRS1900 | 512 | 2 | 30~1000MHz    | 363.23  | -49.26 | -13 | PASS |
| EGPRS1900 | 512 | 2 | 1000~18000MHz | 3165.8  | -47.26 | -13 | PASS |
| EGPRS1900 | 661 | 2 | 0.009~0.15MHz | 0.07    | -74.29 | -43 | PASS |
| EGPRS1900 | 661 | 2 | 0.15~30MHz    | 0.19    | -57.74 | -23 | PASS |
| EGPRS1900 | 661 | 2 | 30~1000MHz    | 240.1   | -49.02 | -13 | PASS |
| EGPRS1900 | 661 | 2 | 1000~18000MHz | 3187.9  | -46.99 | -13 | PASS |
| EGPRS1900 | 810 | 2 | 0.009~0.15MHz | 0.07    | -74.58 | -43 | PASS |
| EGPRS1900 | 810 | 2 | 0.15~30MHz    | 0.2     | -59.85 | -23 | PASS |
| EGPRS1900 | 810 | 2 | 30~1000MHz    | 960.81  | -48.92 | -13 | PASS |
| EGPRS1900 | 810 | 2 | 1000~18000MHz | 3187.9  | -46.21 | -13 | PASS |

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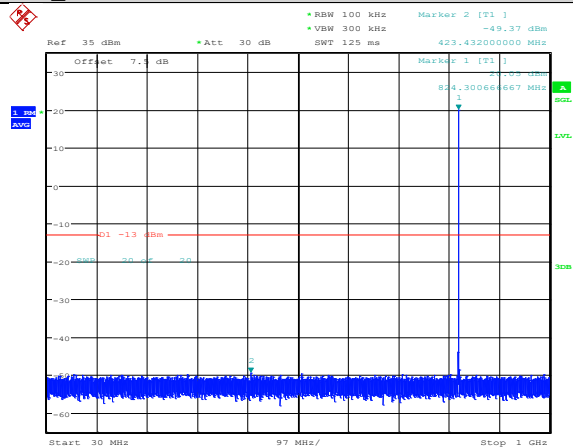
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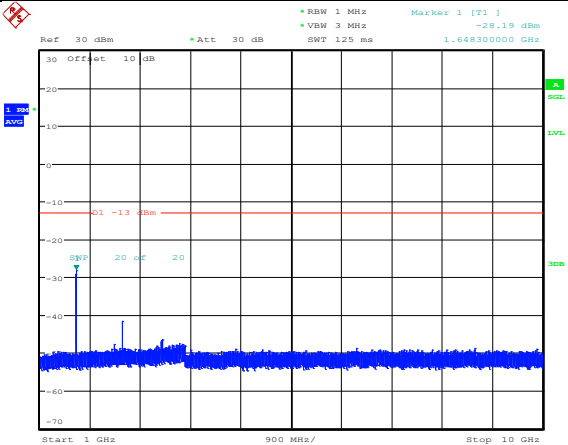
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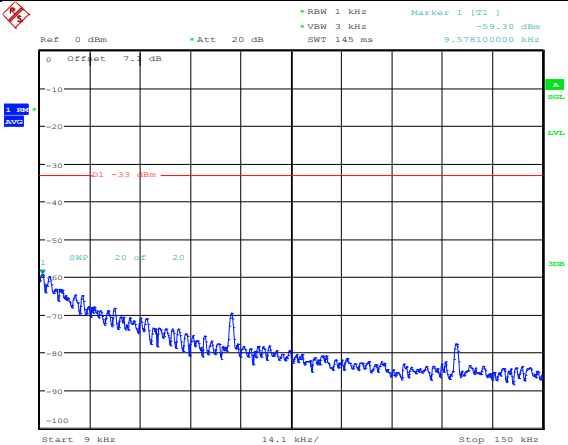
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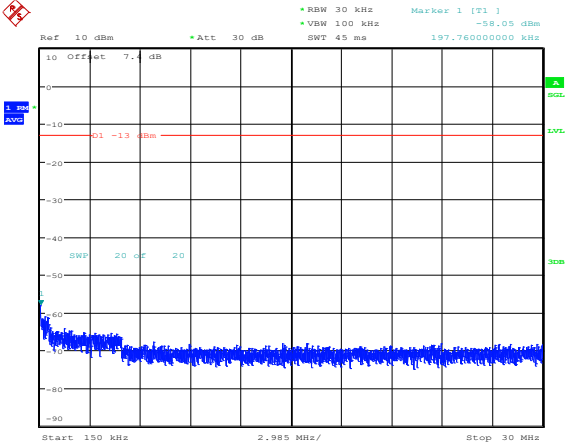
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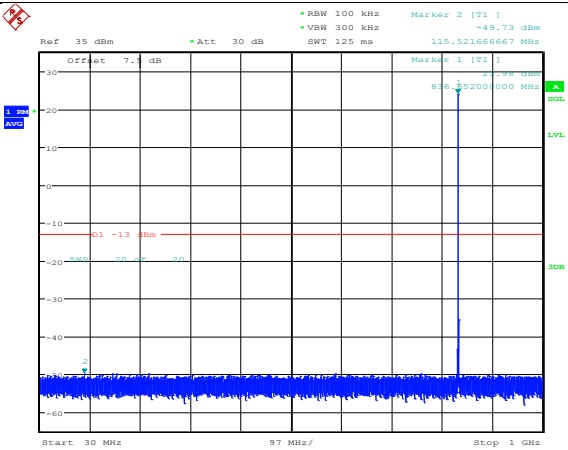
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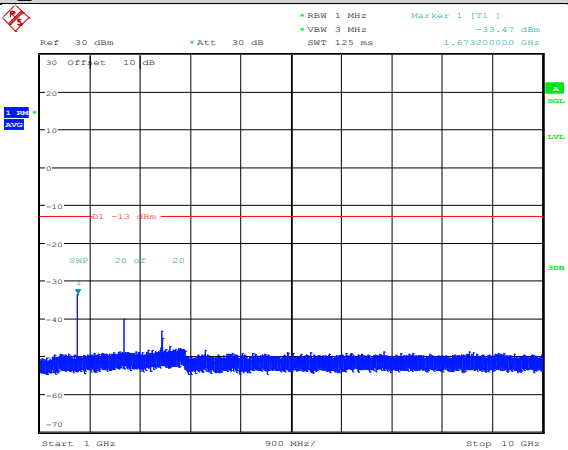
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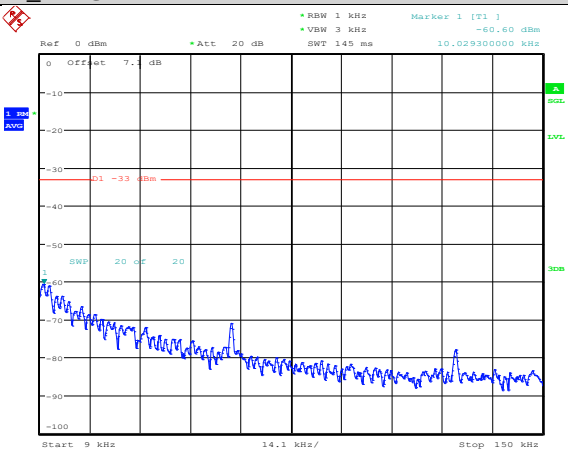
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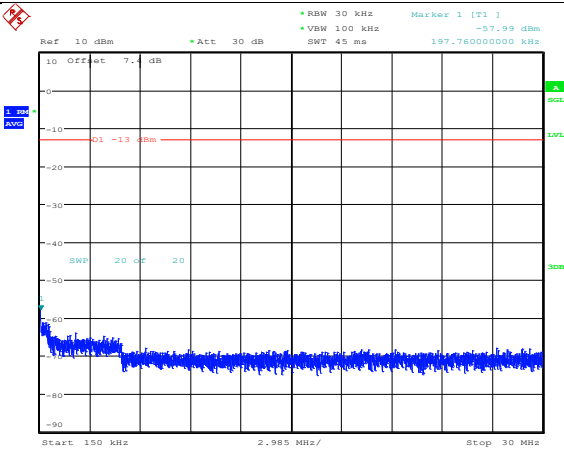
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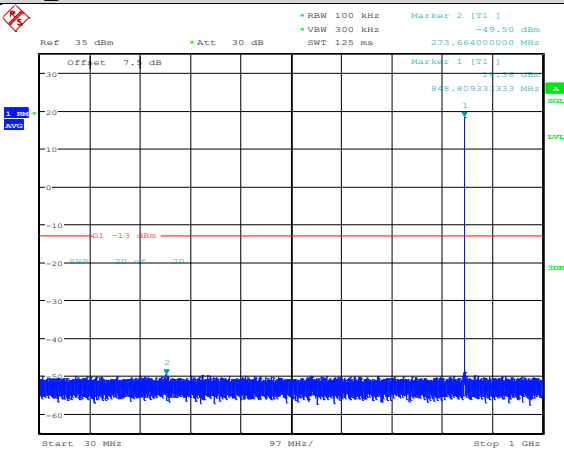
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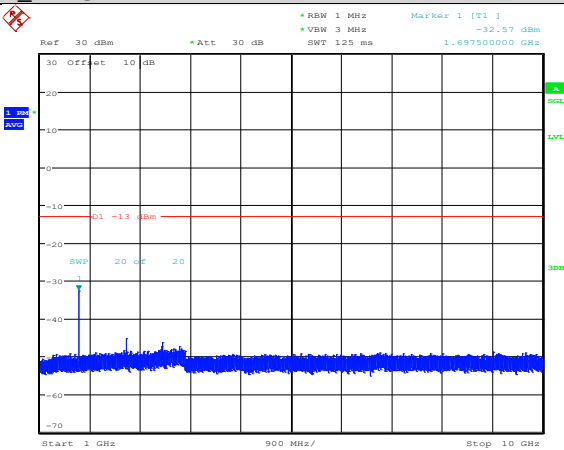
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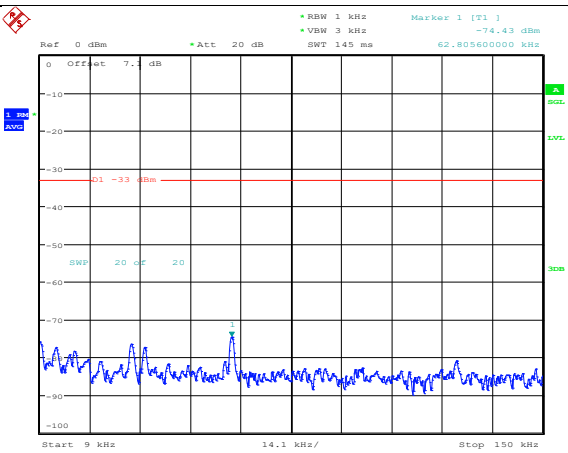
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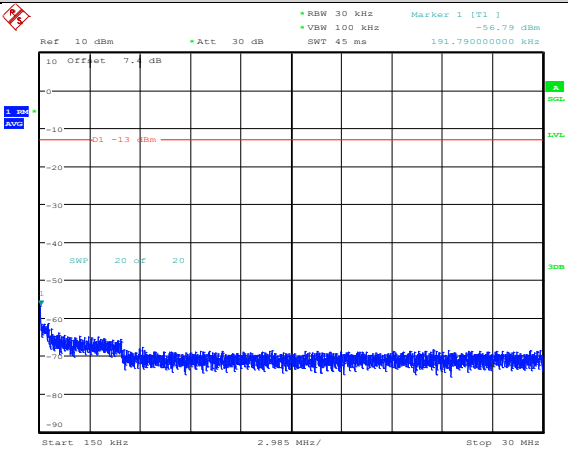
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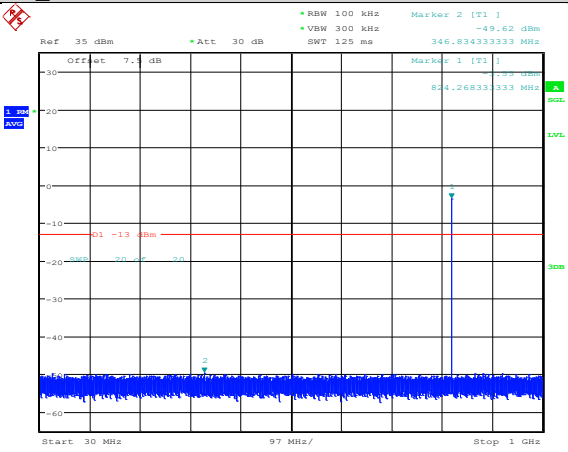
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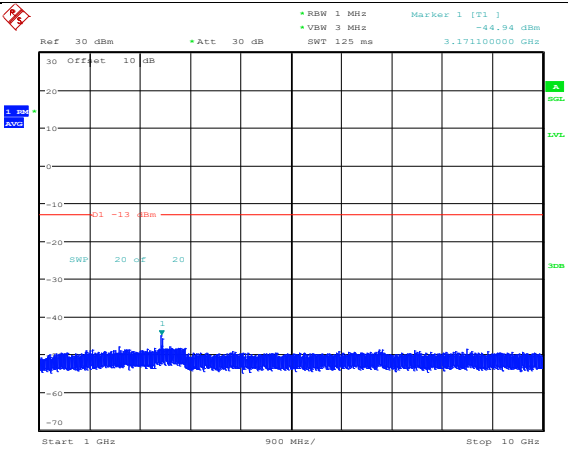
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@FCC GSM Spurious emissions at antenna terminals\_IMG@GPRS850-128-30~1000MHz



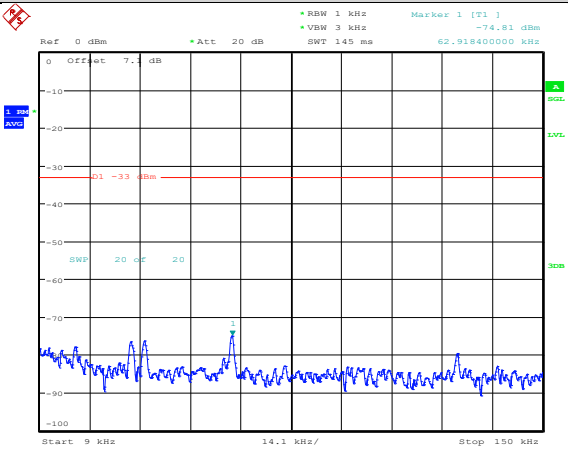
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@FCC GSM Spurious emissions at antenna terminals\_IMG@GPRS850-128-1000~10000MHz



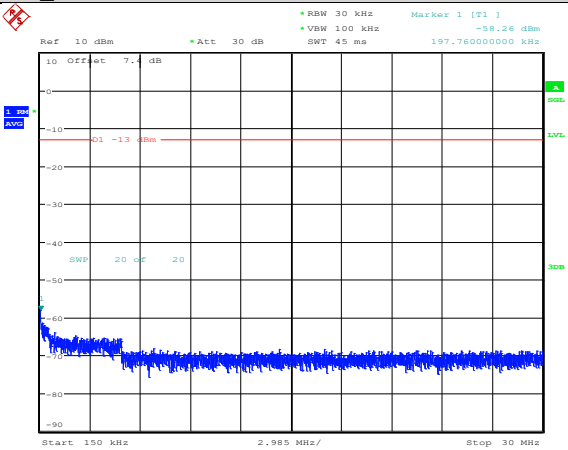
@FCC GSM Spurious emissions at antenna terminals IMG@

@FCC GSM Spurious emissions at antenna terminals IMG@GPRS850-190-0.009~0.15MHz



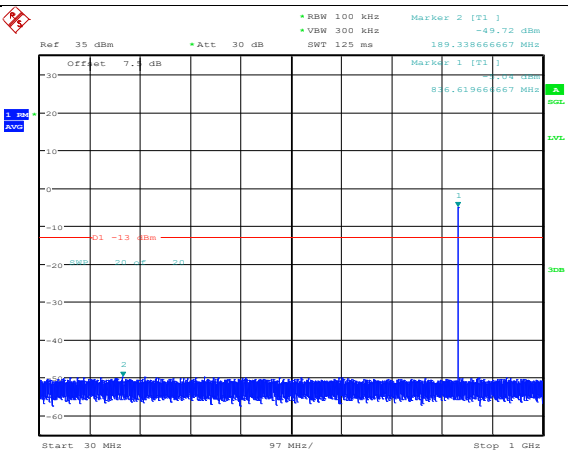
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@FCC GSM Spurious emissions at antenna terminals IMG@GPRS850-190-0.15~30MHz



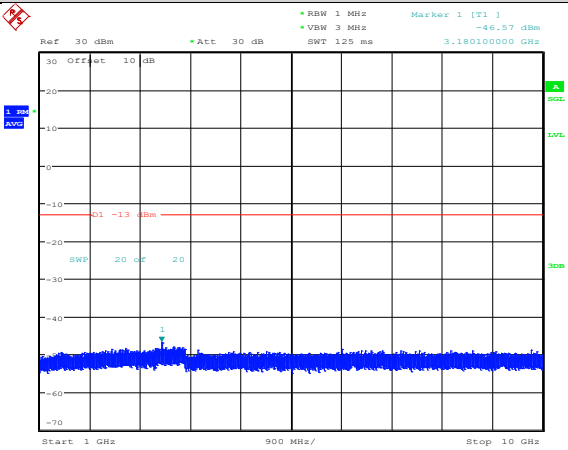
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@FCC GSM Spurious emissions at antenna terminals IMG@GPRS850-190-30~1000MHz



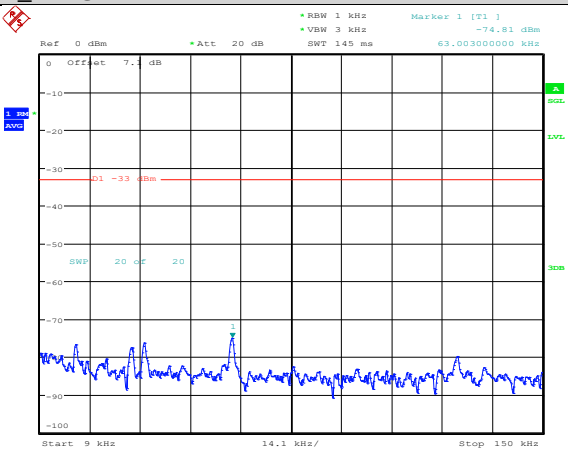
@FCC GSM Spurious emissions at antenna terminals\_IMG@

@FCC\_GSM\_Spurious\_emissions\_at\_antenna\_terminals\_IMG@GPRS850-190-1000~10000MHz



@FCC GSM Spurious emissions at antenna terminals\_IMG@

@FCC\_GSM\_Spurious\_emissions\_at\_antenna\_terminals\_IMG@GPRS850-251-0.009~0.15MHz



@FCC GSM Spurious emissions at antenna terminals\_IMG@

@FCC\_GSM\_Spurious\_emissions\_at\_antenna\_terminals\_IMG@GPRS850-251-0.15~30MHz