# Annex 1: Measurement diagrams to
# T E S T  R E P O R T
# No.: 17-1-0105501T04a-C1

According to:
**FCC Regulations**
Part 22, Part 24, Part 27

**ISED-Regulations**
RSS-132 Issue 3, RSS-133 Issue 6,
RSS-139 Issue 2, RSS-Gen Issue 4
RSS-130 Issue 1

for

## Daimler Trucks North America

## 7 620 000 296
## 66-10777-001

FCC: 2AKC8CTP10777001
ISED: 22221-CTP10777001
PMN: CTPMIDDTNA
HVIN: CTPMIDDTNA
FVIN: 17.02.S.016

| Laboratory Accreditation and Listings | | |
|---|---|---|
| DAkkS Deutsche Akkreditierungsstelle D-PL-12047-01-01<br>Accredited EMC-Test Laboratory | Industry Canada<br>Reg. No.: 3462D-1<br>Reg. No.: 3462D-2<br>Reg. No.: 3462D-3 | Voluntary Controls for Electromagnetic Emissions<br>Reg. No.:<br>R-20013, C-20009,<br>T-20006, G-20013 |
| Wi Fi ALLIANCE AUTHORIZED RF LABORATORY | ctia Authorized™ Test Lab Lab Code: 20011130-00 | FCC FEDERAL COMMUNICATIONS COMMISSION USA<br>MRA US-EU 0003 |
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Laboratory Accreditation and Listings

# Table of contents

# 1. Measurement diagrams LTE-mode

## 1.1. Power conducted

### 1.1.1. Power conducted LTE-Band 2

| LTE-Band 2 | | | | QPSK-Modulation | | | 16-QAM-Modulation | | | max. modulation QPSK | max. modulation 16QAM | max. bandwidth | absolute max. value channelsbandwidths |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| channel bandwidth | ARFCN ch. no. | ARFCN-Frequency [MHz] | Resource block allocation | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | | | | |
| 1.4 MHz | 18607 | 1850,7 | 1 RB low | 26,951 | **21,4049** | 5,5463 | 26,4464 | 20,5594 | 5,887 | 21,405 | 20,559 | 22,0912 | |
| | | | 1 RB high | 26,948 | 21,3479 | 5,6 | 26,3421 | 20,465 | 5,8771 | | | | |
| | | | 50% RB mid | 26,876 | 21,3554 | 5,5204 | 26,8752 | 20,4369 | 6,4383 | | | | |
| | | | 100% RB | 26,562 | 20,3519 | 6,21 | 26,7958 | 19,4217 | 7,3741 | | | | |
| | 18900 | 1880 | 1 RB low | 27,081 | 21,0383 | 6,0429 | 26,4464 | 20,5594 | 5,887 | 21,226 | 20,559 | | |
| | | | 1 RB high | 27,051 | 21,2259 | 5,8249 | 25,4955 | 20,232 | 5,2635 | | | | |
| | | | 50% RB mid | 26,976 | 21,1337 | 5,8422 | 26,9068 | 20,2057 | 6,7011 | | | | |
| | | | 100% RB | 26,693 | 20,0855 | 6,607 | 26,2919 | 19,1619 | 7,13 | | | | |
| | 19193 | 1909,3 | 1 RB low | 27,429 | 21,9481 | 5,481 | 26,488 | 21,0814 | 5,4066 | 22,091 | 21,222 | | |
| | | | 1 RB high | 27,279 | 22,0912 | 5,1879 | 26,4106 | 21,2161 | 5,1945 | | | | |
| | | | 50% RB mid | 27,246 | 21,9855 | 5,2607 | 27,3167 | 21,2218 | 6,0949 | | | | |
| | | | 100% RB | 27,368 | 20,9676 | 6,4005 | 26,7085 | 20,0147 | 6,6938 | | | | |
| 3 MHz | 18615 | 1851,5 | 1 RB low | 26,617 | 21,3979 | 5,2186 | 25,5314 | 20,4411 | 5,0903 | 21,398 | 20,441 | 22,1133 | |
| | | | 1 RB high | 26,605 | 21,1839 | 5,421 | 25,3484 | 20,176 | 5,1724 | | | | |
| | | | 50% RB mid | 26,212 | 20,2266 | 5,9855 | 26,6057 | 20,3672 | 6,2385 | | | | |
| | | | 100% RB | 26,303 | 20,2753 | 6,0274 | 26,8743 | 19,3141 | 7,5602 | | | | |
| | 18900 | 1880 | 1 RB low | 26,339 | 20,7658 | 5,5733 | 25,3796 | 19,8688 | 5,5108 | 21,211 | 20,376 | | |
| | | | 1 RB high | 26,58 | 21,2106 | 5,3691 | 25,7039 | 20,3756 | 5,3283 | | | | |
| | | | 50% RB mid | 26,731 | 20,1789 | 6,5525 | 27,2138 | 20,1686 | 7,0452 | | | | |
| | | | 100% RB | 26,385 | 20,1011 | 6,2842 | 26,259 | 19,21 | 7,049 | | | | |
| | 19185 | 1908,5 | 1 RB low | 26,777 | 21,5272 | 5,2493 | 27,3363 | 21,2813 | 6,055 | 22,113 | 21,699 | | |
| | | | 1 RB high | 26,804 | 22,1133 | 4,6903 | 27,1379 | 21,6988 | 5,4391 | | | | |
| | | | 50% RB mid | 27,317 | 20,9498 | 6,367 | 26,8754 | 21,0176 | 5,8578 | | | | |
| | | | 100% RB | 26,788 | 20,9203 | 5,8681 | 26,8058 | 19,9291 | 6,8767 | | | | |
| 5 MHz | 18625 | 1852,5 | 1 RB low | 26,71 | 21,5388 | 5,1712 | 26,5182 | 20,7604 | 5,7578 | **21,54** | 20,76 | 22,1228 | |
| | | | 1 RB high | 26,477 | 21,0291 | 5,4479 | 26,1986 | 20,2762 | 5,9224 | | | | |
| | | | 50% RB mid | 27,122 | 20,1814 | 6,9409 | 26,6248 | 20,2924 | 6,3324 | | | | |
| | | | 100% RB | 26,806 | 20,2071 | 6,5985 | 27,4834 | 19,2248 | 8,2586 | | | | |
| | 18900 | 1880 | 1 RB low | 26,612 | 21,0026 | 5,6095 | 26,644 | 20,0528 | 6,5912 | 21,367 | 20,337 | | |
| | | | 1 RB high | 26,953 | 21,3673 | 5,5859 | 26,8579 | 20,3369 | 6,521 | | | | |
| | | | 50% RB mid | 27,194 | 20,1641 | 7,0301 | 27,0917 | 20,2809 | 6,8108 | | | | |
| | | | 100% RB | 26,435 | 20,1328 | 6,3026 | 27,1359 | 19,2007 | 7,9352 | | | | |
| | 19175 | 1907,5 | 1 RB low | 27,223 | 21,0874 | 6,136 | 26,276 | 20,1454 | 6,1306 | 22,123 | 21,166 | | |
| | | | 1 RB high | 27,23 | 22,1228 | 5,107 | 26,7329 | 21,1664 | 5,5665 | | | | |
| | | | 50% RB mid | 27,369 | 20,763 | 6,6063 | 27,3109 | 20,7512 | 6,5597 | | | | |
| | | | 100% RB | 27,325 | 20,7529 | 6,5722 | 27,3242 | 19,6265 | 7,6977 | | | | 22,2207 |
| 10 MHz | 18650 | 1855 | 1 RB low | 26,729 | 21,4882 | 5,2407 | 25,6499 | **20,5687** | 5,0812 | **21,49** | **20,57** | **22,07** | |
| | | | 1 RB high | 26,201 | 20,4087 | 5,7921 | 24,7399 | 19,4626 | 5,2773 | | | | |
| | | | 50% RB mid | 26,215 | 19,8642 | 6,3508 | 26,7685 | 18,8616 | 7,9069 | | | | |
| | | | 100% RB | 26,247 | 19,8822 | 6,3649 | 26,325 | 18,9234 | 7,4016 | | | | |
| | 18900 | 1880 | 1 RB low | 26,656 | 21,2246 | 5,4313 | 25,9412 | 20,5443 | 5,3969 | 21,506 | 20,733 | | |
| | | | 1 RB high | 26,654 | **21,5062** | 5,1478 | 26,0098 | 20,7327 | 5,2771 | | | | |
| | | | 50% RB mid | 26,785 | 20,1848 | 6,6 | 26,6576 | 19,2725 | 7,3851 | | | | |
| | | | 100% RB | 26,873 | 20,2877 | 6,5855 | 27,1984 | 19,2479 | 7,9505 | | | | |
| | 19150 | 1905 | 1 RB low | 25,934 | 20,4754 | 5,4589 | 26,6953 | 20,1337 | 6,5616 | **22,07** | 21,74 | | |
| | | | 1 RB high | 26,965 | **22,0708** | 4,8937 | 27,1935 | 21,7402 | 5,4533 | | | | |
| | | | 50% RB mid | 26,863 | 20,1681 | 6,695 | 26,4913 | 19,0386 | 7,4527 | | | | |
| | | | 100% RB | 26,915 | 20,2297 | 6,6857 | 27,2288 | 19,1435 | 8,0853 | | | | |
| 15 MHz | 18675 | 1857,5 | 1 RB low | 26,547 | 21,4677 | 5,0789 | 25,6939 | 20,5772 | 5,1167 | 21,468 | 20,577 | 22,0077 | |
| | | | 1 RB high | 25,532 | 20,0241 | 5,5079 | 24,417 | 19,0968 | 5,3202 | | | | |
| | | | 50% RB mid | 26,78 | 19,5936 | 7,1859 | 27,0312 | 19,373 | 7,6582 | | | | |
| | | | 100% RB | 26,875 | 19,6827 | 7,1927 | 26,2991 | 18,726 | 7,5731 | | | | |
| | 18900 | 1880 | 1 RB low | 26,274 | 20,8592 | 5,4148 | 25,8809 | 20,5847 | 5,2962 | 21,177 | 20,718 | | |
| | | | 1 RB high | 26,403 | 21,1773 | 5,2253 | 25,8875 | 20,7184 | 5,1691 | | | | |
| | | | 50% RB mid | 27,168 | 20,1771 | 6,9908 | 27,3899 | 20,1982 | 7,1917 | | | | |
| | | | 100% RB | 27,442 | 20,3147 | 7,1274 | 26,7281 | 19,2413 | 7,4868 | | | | |
| | 19125 | 1902,5 | 1 RB low | 26,193 | 20,835 | 5,3576 | 26,7903 | 20,5003 | 6,29 | 22,008 | 21,769 | | |
| | | | 1 RB high | 26,944 | 22,0077 | 4,9362 | 27,1852 | 21,7692 | 5,416 | | | | |
| | | | 50% RB mid | 27,052 | 19,766 | 7,2859 | 26,8712 | 19,6254 | 7,2458 | | | | |
| | | | 100% RB | 27,551 | 20,0607 | 7,49 | 26,5292 | 18,934 | 7,5952 | | | | |
| 20 MHz | 18700 | 1860 | 1 RB low | 26,841 | 21,5881 | 5,2527 | 27,044 | 20,8983 | 6,1457 | **21,59** | 20,898 | **22,22** | |
| | | | 1 RB high | 26,11 | **20,2887** | 5,8208 | 26,5255 | 19,6184 | 6,9071 | | | | |
| | | | 50% RB mid | 26,325 | 19,4404 | 6,885 | 26,6161 | 19,2278 | 7,3883 | | | | |
| | | | 100% RB | 26,277 | 19,6241 | 6,6533 | 26,6802 | 18,6353 | 8,0449 | | | | |
| | 18900 | 1880 | 1 RB low | 26,315 | **20,5771** | 5,7381 | 26,1265 | 20,0869 | 6,0396 | 20,624 | 20,197 | | |
| | | | 1 RB high | 26,271 | 20,6243 | 5,6463 | 26,0277 | 20,0813 | 5,9464 | | | | |
| | | | 50% RB mid | 26,848 | 20,2828 | 6,5653 | 27,1417 | 20,1969 | 6,9448 | | | | |
| | | | 100% RB | 26,873 | 20,2113 | 6,6614 | 26,8565 | 19,1834 | 7,6731 | | | | |
| | 19100 | 1900 | 1 RB low | 26,316 | 20,6699 | 5,6458 | 26,0826 | 19,9609 | 6,1217 | 22,221 | 21,484 | | |
| | | | 1 RB high | 27,177 | 22,2207 | 4,9561 | 27,0237 | 21,4838 | 5,5399 | | | | |
| | | | 50% RB mid | 26,807 | 19,7672 | 7,0393 | 26,4178 | 19,4853 | 6,9325 | | | | |
| | | | 100% RB | 27,013 | 19,9018 | 7,1108 | 27,5244 | 18,7545 | 8,7699 | | | | |

## 1.1.2. Power conducted LTE-Band 4

| LTE-Band 4 | | | | QPSK-Modulation | | | 16-QAM-Modulation | | | max. modulation QPSK | max. modulation 16-QAM | max. channel | absolute max. value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| channel bandwidth | ARFCN ch. no. | ARFCN-Frequency [MHz] | Resource block allocation | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | | | | |
| 14 MHz | 19957 | 1710,7 | 1RB low | 27,045 | 21,4539 | 5,5909 | 26,3712 | 20,4334 | 5,9378 | 21,504 | 20,56 | 21,6737 | 22,218 |
| | | | 1RB high | 26,962 | 21,5035 | 5,4587 | 26,4014 | 20,5603 | 5,8411 | | | | |
| | | | 50%RB mid | 27,009 | 21,4343 | 5,575 | 26,9931 | 20,5068 | 6,4863 | | | | |
| | | | 100%RB | 26,971 | 20,4002 | 6,5704 | 26,7565 | 19,4282 | 7,3283 | | | | |
| | 20175 | 1732,5 | 1RB low | 27,233 | 21,6737 | 5,5692 | 26,6266 | 20,7232 | 5,9034 | 21,674 | 20,758 | | |
| | | | 1RB high | 27,031 | 21,6178 | 5,4133 | 26,5248 | 20,7578 | 5,767 | | | | |
| | | | 50%RB mid | 27,177 | 21,6544 | 5,5228 | 27,1968 | 20,752 | 6,4448 | | | | |
| | | | 100%RB | 26,877 | 20,629 | 6,2478 | 26,9473 | 19,683 | 7,2643 | | | | |
| | 20393 | 1754,3 | 1RB low | 26,465 | 20,7939 | 5,6708 | 25,8556 | 19,9193 | 5,9363 | 20,856 | 19,963 | | |
| | | | 1RB high | 26,533 | 20,856 | 5,6774 | 25,8638 | 19,9458 | 5,918 | | | | |
| | | | 50%RB mid | 26,497 | 20,7566 | 5,7399 | 26,5241 | 19,963 | 6,5611 | | | | |
| | | | 100%RB | 26,395 | 19,8545 | 6,5408 | 25,7696 | 18,6784 | 7,0912 | | | | |
| 3 MHz | 19965 | 1711,5 | 1RB low | 26,524 | 21,3984 | 5,1259 | 27,0072 | 21,076 | 5,9312 | 21,444 | 21,124 | 21,6312 | |
| | | | 1RB high | 26,45 | 21,4444 | 5,0054 | 26,9362 | 21,1238 | 5,8124 | | | | |
| | | | 50%RB mid | 27,091 | 20,4476 | 6,6435 | 26,4668 | 20,5865 | 5,8803 | | | | |
| | | | 100%RB | 26,724 | 20,4428 | 6,2813 | 26,5978 | 19,4978 | 7,1 | | | | |
| | 20175 | 1732,5 | 1RB low | 26,632 | 21,5527 | 5,0795 | 27,1727 | 21,2275 | 5,9452 | 21,631 | 21,305 | | |
| | | | 1RB high | 26,637 | 21,6312 | 5,0053 | 27,1478 | 21,3053 | 5,8425 | | | | |
| | | | 50%RB mid | 27,305 | 20,6714 | 6,6337 | 26,6935 | 20,8043 | 5,8892 | | | | |
| | | | 100%RB | 27,289 | 20,6366 | 6,652 | 27,0681 | 19,718 | 7,3501 | | | | |
| | 20385 | 1753,5 | 1RB low | 25,83 | 20,6732 | 5,1571 | 26,4093 | 20,4419 | 5,9674 | 20,796 | 20,562 | | |
| | | | 1RB high | 25,972 | 20,7963 | 5,1753 | 26,5739 | 20,5621 | 6,0118 | | | | |
| | | | 50%RB mid | 26,608 | 19,88 | 6,7282 | 25,8765 | 19,9382 | 5,9383 | | | | |
| | | | 100%RB | 26,382 | 19,8151 | 6,5668 | 25,4002 | 18,7128 | 6,6874 | | | | |
| 5 MHz | 19975 | 1712,5 | 1RB low | 27,282 | 21,4913 | 5,7902 | 26,3688 | 20,5056 | 5,8632 | 21,491 | 20,514 | 21,8185 | |
| | | | 1RB high | 27,086 | 21,4891 | 5,5966 | 26,213 | 20,5144 | 5,6986 | | | | |
| | | | 50%RB mid | 26,915 | 20,4626 | 6,4524 | 26,9016 | 20,4922 | 6,4094 | | | | |
| | | | 100%RB | 26,916 | 20,4692 | 6,4469 | 26,5568 | 19,504 | 7,0528 | | | | |
| | 20175 | 1732,5 | 1RB low | 27,41 | 21,6049 | 5,805 | 26,4932 | 20,6265 | 5,8667 | 21,819 | 20,828 | | |
| | | | 1RB high | 27,552 | 21,8185 | 5,7334 | 26,5816 | 20,8279 | 5,7537 | | | | |
| | | | 50%RB mid | 27,316 | 20,6797 | 6,636 | 27,119 | 20,7225 | 6,3965 | | | | |
| | | | 100%RB | 27,151 | 20,6734 | 6,4772 | 27,2683 | 19,7142 | 7,5541 | | | | |
| | 20375 | 1752,5 | 1RB low | 26,623 | 20,831 | 5,7919 | 25,7402 | 19,9406 | 5,7996 | 20,887 | 19,983 | | |
| | | | 1RB high | 26,863 | 20,8874 | 5,9755 | 25,7856 | 19,9832 | 5,8024 | | | | |
| | | | 50%RB mid | 26,785 | 19,849 | 6,9359 | 26,3894 | 19,874 | 6,5154 | | | | |
| | | | 100%RB | 26,331 | 19,8345 | 6,4968 | 26,2775 | 18,7052 | 7,5723 | | | | |
| 10 MHz | 20000 | 1715 | 1RB low | 26,583 | 21,4951 | 5,0874 | 27,0688 | 21,1453 | 5,9235 | 21,495 | 21,145 | **22,04** | |
| | | | 1RB high | 26,373 | 21,2707 | 5,1025 | 26,8247 | 20,939 | 5,8857 | | | | |
| | | | 50%RB mid | 26,851 | 20,4665 | 6,3847 | 26,5324 | 19,5562 | 6,9762 | | | | |
| | | | 100%RB | 26,893 | 20,449 | 6,4438 | 27,1034 | 19,4547 | 7,6487 | | | | |
| | 20175 | 1732,5 | 1RB low | 26,808 | 21,3578 | 5,4502 | 27,0689 | 21,0125 | 6,0564 | **22,04** | 21,644 | | |
| | | | 1RB high | 27,226 | **22,0354** | 5,1909 | 27,4559 | 21,6435 | 5,8124 | | | | |
| | | | 50%RB mid | 27,051 | 20,7063 | 6,3445 | 26,8112 | 19,7911 | 7,0201 | | | | |
| | | | 100%RB | 27,081 | 20,7171 | 6,3636 | 27,5415 | 19,7289 | 7,8126 | | | | |
| | 20350 | 1750 | 1RB low | 26,25 | 21,3142 | 4,9354 | 26,6558 | 20,9828 | 5,673 | **21,31** | 20,983 | | |
| | | | 1RB high | 26,098 | 20,8641 | 5,2343 | 26,667 | 20,599 | 6,068 | | | | |
| | | | 50%RB mid | 26,365 | 19,93 | 6,4343 | 25,8964 | 18,8689 | 7,0275 | | | | |
| | | | 100%RB | 26,505 | 20,0461 | 6,4589 | 26,5846 | 18,8912 | 7,6934 | | | | |
| 15 MHz | 20025 | 1717,5 | 1RB low | 26,588 | 21,4792 | 5,1086 | 27,0955 | 21,1903 | 5,9052 | 21,479 | 21,19 | 21,9609 | |
| | | | 1RB high | 26,352 | 21,1858 | 5,1658 | 26,8798 | 20,8788 | 6,001 | | | | |
| | | | 50%RB mid | 26,927 | 20,3555 | 6,5711 | 26,8546 | 20,3463 | 6,5083 | | | | |
| | | | 100%RB | 27,424 | 20,3824 | 7,0435 | 26,8601 | 19,4243 | 7,4358 | | | | |
| | 20175 | 1732,5 | 1RB low | 26,494 | 21,3104 | 5,1836 | 25,6418 | 20,441 | 5,2008 | 21,961 | 21,619 | | |
| | | | 1RB high | 26,895 | 21,9609 | 4,9343 | 27,3355 | 21,6191 | 5,7364 | | | | |
| | | | 50%RB mid | 27,374 | 20,7185 | 6,6553 | 27,2721 | 20,7436 | 6,5285 | | | | |
| | | | 100%RB | 27,623 | 20,7053 | 6,9174 | 27,2389 | 19,7646 | 7,4743 | | | | |
| | 20325 | 1747,5 | 1RB low | 26,635 | 21,7151 | 4,9203 | 27,1134 | 21,4359 | 5,6775 | 21,715 | 21,436 | | |
| | | | 1RB high | 26,062 | 20,8074 | 5,2545 | 25,2268 | 20,0139 | 5,2129 | | | | |
| | | | 50%RB mid | 26,654 | 20,2346 | 6,4193 | 26,5687 | 20,2068 | 6,3619 | | | | |
| | | | 100%RB | 27,219 | 20,279 | 6,9398 | 26,4068 | 19,1067 | 7,3001 | | | | |
| 20 MHz | 20050 | 1720 | 1RB low | 26,931 | **21,7496** | 5,1814 | 26,8349 | 21,0201 | 5,8148 | **21,75** | 21,02 | 22,2175 | |
| | | | 1RB high | 27,069 | 21,6991 | 5,3703 | 26,8964 | 20,9726 | 5,9238 | | | | |
| | | | 50%RB mid | 26,755 | 20,3275 | 6,4278 | 26,6933 | 20,3105 | 6,3828 | | | | |
| | | | 100%RB | 26,974 | 20,425 | 6,5492 | 27,4553 | 19,4508 | 8,0045 | | | | |
| | 20175 | 1732,5 | 1RB low | 26,688 | 21,4371 | 5,251 | 26,5627 | 20,7244 | 5,8383 | 21,933 | 21,984 | | |
| | | | 1RB high | 26,992 | 21,9329 | 5,0591 | 26,8277 | 21,207 | 5,6207 | | | | |
| | | | 50%RB mid | 27,283 | 20,772 | 6,5105 | 27,1446 | 20,7643 | 6,3803 | | | | |
| | | | 100%RB | 27,257 | 20,7327 | 6,5241 | 25,2052 | 21,9841 | 3,2211 | | | | |
| | 20300 | 1745 | 1RB low | 27,293 | 22,2175 | 5,0756 | 27,1594 | 21,5225 | 5,6369 | 22,218 | 21,523 | | |
| | | | 1RB high | 26,447 | 21,0117 | 5,4353 | 26,2831 | 20,2941 | 5,989 | | | | |
| | | | 50%RB mid | 26,729 | 20,5595 | 6,1698 | 26,7695 | 20,4601 | 6,3094 | | | | |
| | | | 100%RB | 26,898 | 20,4943 | 6,4033 | 27,3418 | 19,4869 | 7,8549 | | | | |

## 1.1.3. Power conducted LTE-Band 5

| LTE-Band 5 | | | | QPSK-Modulation | | | 16-QAM-Modulation | | | max- modulation QPSK | max. modulation 16-QAM | max. channel | absolute max. value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| channel bandwidth | ARFCN ch. no. | ARFCN-Frequency [MHz] | Resource block allocation | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | | | | |
| 14 MHz | 20407 | 824.7 | 1RB low | 27,338 | 21,6406 | 5,6975 | 26,2249 | 20,8048 | 5,4201 | 21,88 | 20,92 | 21,88 | 22,24 |
| | | | 1RB high | 27,279 | 21,8805 | 5,3983 | 26,7237 | 20,9211 | 5,8026 | | | | |
| | | | 50%RB mid | 27,295 | 21,7124 | 5,5824 | 27,2901 | 20,8365 | 6,4536 | | | | |
| | | | 100%RB | 27,229 | 20,6629 | 6,5662 | 26,9533 | 19,6523 | 7,301 | | | | |
| | **20525** | **836.5** | 1RB low | 27,15 | 21,1697 | 5,9798 | 26,4225 | 20,2026 | 6,2199 | 21,17 | 20,21 | | |
| | | | 1RB high | 27,206 | 21,1701 | 6,0361 | 26,4194 | 20,21 | 6,2094 | | | | |
| | | | 50%RB mid | 27,12 | 21,0656 | 6,0498 | 27,1179 | 20,201 | 6,9169 | | | | |
| | | | 100%RB | 26,581 | 20,081 | 6,5 | 26,5774 | 19,0747 | 7,5027 | | | | |
| | **20643** | **848.3** | 1RB low | 26,369 | **21,8736** | 4,4956 | 26,0225 | 20,9485 | 5,074 | **21,87** | 20,95 | | |
| | | | 1RB high | 26,282 | 21,7141 | 4,5678 | 25,9433 | 20,8478 | 5,0955 | | | | |
| | | | 50%RB mid | 26,333 | 21,7375 | 4,5955 | 26,2926 | 20,9064 | 5,3862 | | | | |
| | | | 100%RB | 26,513 | 20,7948 | 5,7186 | 26,3767 | 19,8417 | 6,535 | | | | |
| 3 MHz | 20415 | 825.5 | 1RB low | 26,733 | 21,4895 | 5,2439 | 27,369 | 21,2341 | 6,1349 | 22,11 | 21,81 | 22,11 | |
| | | | 1RB high | 26,773 | 22,1051 | 4,668 | 27,1669 | 21,8095 | 5,3574 | | | | |
| | | | 50%RB mid | 27,325 | 20,9291 | 6,3957 | 26,7128 | 21,0584 | 5,6544 | | | | |
| | | | 100%RB | 27,359 | 20,8772 | 6,4819 | 26,9998 | 19,881 | 7,1188 | | | | |
| | **20525** | **836.5** | 1RB low | 26,479 | 21,158 | 5,3212 | 27,0685 | 20,8627 | 6,2058 | 21,16 | 20,86 | | |
| | | | 1RB high | 26,57 | 21,1092 | 5,4606 | 27,4139 | 20,8362 | 6,5777 | | | | |
| | | | 50%RB mid | 27,306 | 20,093 | 7,2125 | 26,4626 | 20,229 | 6,2336 | | | | |
| | | | 100%RB | 26,628 | 20,1136 | 6,5146 | 26,7217 | 19,0853 | 7,6364 | | | | |
| | 20635 | 847.5 | 1RB low | 26,315 | 21,9303 | 4,3847 | 26,74 | 21,5848 | 5,1552 | 21,93 | 21,58 | | |
| | | | 1RB high | 26,007 | 21,7285 | 4,2782 | 26,3487 | 21,3377 | 5,011 | | | | |
| | | | 50%RB mid | 26,433 | 20,9362 | 5,4972 | 26,0578 | 20,9919 | 5,0659 | | | | |
| | | | 100%RB | 26,614 | 20,9547 | 5,6597 | 26,2476 | 19,9947 | 6,2529 | | | | |
| 5 MHz | 20425 | 826.5 | 1RB low | 27,7 | 21,6996 | 6,0007 | 26,6709 | 20,7133 | 5,9576 | 22,24 | 21,27 | **22,24** | |
| | | | 1RB high | 27,063 | **22,2385** | 4,8248 | 26,4901 | 21,2713 | 5,2188 | | | | |
| | | | 50%RB mid | 27,387 | 21,0963 | 6,2907 | 26,9832 | 21,2051 | 5,7781 | | | | |
| | | | 100%RB | 27,136 | 21,1031 | 6,0328 | 27,4316 | 20,0519 | 7,3797 | | | | |
| | **20525** | **836.5** | 1RB low | 27,138 | 21,3532 | 5,7849 | 26,3066 | 20,3884 | 5,9182 | **21,35** | 20,39 | | |
| | | | 1RB high | 27,794 | 21,14 | 6,6541 | 26,3047 | 20,1718 | 6,1329 | | | | |
| | | | 50%RB mid | 27,392 | 20,1274 | 7,2646 | 27,2538 | 20,168 | 7,0858 | | | | |
| | | | 100%RB | 26,846 | 20,1309 | 6,7151 | 27,0296 | 19,1245 | 7,9051 | | | | |
| | 20625 | 846.5 | 1RB low | 27,389 | 21,8452 | 5,544 | 26,5132 | 20,8959 | 5,6173 | 21,85 | 21,09 | | |
| | | | 1RB high | 26,522 | 21,7502 | 4,7713 | 25,9131 | 20,809 | 5,1041 | | | | |
| | | | 50%RB mid | 26,881 | 21,0302 | 5,8504 | 26,6123 | 21,0886 | 5,5237 | | | | |
| | | | 100%RB | 26,971 | 21,0241 | 5,947 | 26,5859 | 19,9773 | 6,6086 | | | | |
| 10 MHz | 20450 | 829 | 1RB low | 26,843 | 21,7001 | 5,143 | 27,4407 | 21,365 | 6,0757 | 21,70 | 21,37 | 21,85 | |
| | | | 1RB high | 26,512 | 21,5388 | 4,9727 | 26,8928 | 21,2116 | 5,6812 | | | | |
| | | | 50%RB mid | 26,707 | 21,1757 | 5,5317 | 26,5704 | 20,2538 | 6,3166 | | | | |
| | | | 100%RB | 27,194 | 21,0607 | 6,1332 | 27,5001 | 20,0339 | 7,4662 | | | | |
| | **20525** | **836.5** | 1RB low | 26,402 | **21,7693** | 4,6328 | 26,7598 | 21,3964 | 5,3634 | 21,77 | 21,40 | | |
| | | | 1RB high | 26,839 | 21,3199 | 5,5188 | 27,7285 | 21,0375 | 6,691 | | | | |
| | | | 50%RB mid | 26,994 | 20,1484 | 6,8452 | 26,6523 | 19,2082 | 7,4441 | | | | |
| | | | 100%RB | 27,122 | 20,3073 | 6,8151 | 26,4641 | 19,237 | 7,2271 | | | | |
| | 20600 | 844 | 1RB low | 26,71 | 21,2089 | 5,5008 | 27,635 | 20,9156 | 6,7194 | 21,85 | 21,45 | | |
| | | | 1RB high | 26,246 | 21,8492 | 4,3964 | 26,4358 | 21,4532 | 4,9826 | | | | |
| | | | 50%RB mid | 26,988 | 20,9125 | 6,0757 | 26,795 | 19,8854 | 6,9096 | | | | |
| | | | 100%RB | 27,026 | 20,825 | 6,2011 | 27,4849 | 19,7934 | 7,6915 | | | | |

## 1.1.4. Power conducted LTE-Band 7

| LTE-Band 7 | | | | QPSK-Modulation | | | 16-QAM-Modulation | | | max- modulation QPSK | max. modulation 16-QAM | max. channel | absolute max. value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| channel bandwidth | ARFCN ch. no. | ARFCN-Frequency [MHz] | Resource block allocation | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | | | | |
| 5 MHz | 20775 | 2502,5 | 1RB low | 25,31 | 19,1304 | 6,18 | 23,814 | 18,1916 | 5,6224 | 19,13 | 18,378 | 21,73 | 21,81 |
| | | | 1RB high | 25,136 | 19,1089 | 6,0272 | 23,9762 | 18,3783 | 5,5979 | | | | |
| | | | 50%RB mid | 25,163 | 18,1577 | 7,0052 | 24,965 | 18,2582 | 6,7068 | | | | |
| | | | 100%RB | 24,554 | 18,2072 | 6,3471 | 24,634 | 17,2534 | 7,3806 | | | | |
| | 21100 | 2535 | 1RB low | 24,89 | 20,5637 | 4,3267 | 24,4315 | 19,6922 | 4,7393 | 20,564 | 19,692 | | |
| | | | 1RB high | 25,007 | 20,1024 | 4,9044 | 24,4209 | 19,1796 | 5,2413 | | | | |
| | | | 50%RB mid | 25,141 | 19,3885 | 5,7521 | 24,683 | 19,5027 | 5,1803 | | | | |
| | | | 100%RB | 25,114 | 19,3859 | 5,7282 | 25,3437 | 18,6039 | 6,7398 | | | | |
| | 21425 | 2567,5 | 1RB low | 26,417 | 21,6235 | 4,7931 | 25,8519 | 20,7767 | 5,0752 | 21,735 | 20,966 | | |
| | | | 1RB high | 26,22 | 21,7348 | 4,4853 | 25,7912 | 20,8986 | 4,8926 | | | | |
| | | | 50%RB mid | 26,647 | 20,8834 | 5,7636 | 26,2341 | 20,966 | 5,2681 | | | | |
| | | | 100%RB | 26,245 | 20,568 | 5,677 | 26,7405 | 20,1103 | 6,6302 | | | | |
| 10 MHz | 20800 | 2505 | 1RB low | 24,169 | 19,0268 | 5,1426 | 24,8593 | 19,135 | 5,7243 | 19,504 | 19,362 | 21,67 | |
| | | | 1RB high | 24,403 | 19,5035 | 4,8994 | 25,2336 | 19,362 | 5,8716 | | | | |
| | | | 50%RB mid | 24,715 | 18,2393 | 6,476 | 24,4424 | 17,4047 | 7,0377 | | | | |
| | | | 100%RB | 25,014 | 18,2913 | 6,7225 | 25,147 | 17,4056 | 7,7414 | | | | |
| | 21000 | 2535 | 1RB low | 24,565 | 20,7785 | 3,786 | 24,7328 | 20,4163 | 4,3165 | 20,779 | 20,416 | | |
| | | | 1RB high | 24,543 | 19,7083 | 4,8343 | 24,9225 | 19,4464 | 5,4761 | | | | |
| | | | 50%RB mid | 24,989 | 19,4483 | 5,541 | 24,6332 | 18,6779 | 5,9553 | | | | |
| | | | 100%RB | 25,359 | 19,4841 | 5,8745 | 25,5765 | 18,6893 | 6,8872 | | | | |
| | 21400 | 2565 | 1RB low | 25,528 | 20,609 | 4,9193 | 26,2116 | 20,4391 | 5,7725 | 21,671 | 21,381 | | |
| | | | 1RB high | 25,915 | 21,6712 | 4,244 | 26,1239 | 21,381 | 4,7429 | | | | |
| | | | 50%RB mid | 26,447 | 20,6189 | 5,828 | 26,1491 | 19,9041 | 6,245 | | | | |
| | | | 100%RB | 26,59 | 20,5269 | 6,0631 | 27,0062 | 19,7535 | 7,2527 | | | | |
| 15 MHz | 20825 | 2507,5 | 1RB low | 24,297 | 19,0816 | 5,2158 | 24,9709 | 18,8252 | 6,1457 | 20,354 | 20,1 | 21,67 | |
| | | | 1RB high | 25,097 | 20,3541 | 4,7427 | 25,5797 | 20,1002 | 5,4795 | | | | |
| | | | 50%RB mid | 25,031 | 18,5908 | 6,4402 | 25,5029 | 18,5569 | 6,946 | | | | |
| | | | 100%RB | 25,579 | 18,7206 | 6,8579 | 25,0403 | 17,7004 | 7,3399 | | | | |
| | 21100 | 2535 | 1RB low | 25,234 | 20,9506 | 4,283 | 25,5513 | 20,5561 | 4,9952 | 20,951 | 20,556 | | |
| | | | 1RB high | 24,628 | 20,717 | 3,911 | 24,7803 | 20,3223 | 4,458 | | | | |
| | | | 50%RB mid | 24,991 | 20,2635 | 4,7271 | 25,161 | 20,2654 | 4,8956 | | | | |
| | | | 100%RB | 26,092 | 20,1927 | 5,8988 | 25,6771 | 19,3914 | 6,2857 | | | | |
| | 21375 | 2562,5 | 1RB low | 25,058 | 20,0115 | 5,0464 | 25,6411 | 19,6902 | 5,9509 | 21,671 | 21,332 | | |
| | | | 1RB high | 25,876 | 21,6711 | 4,2046 | 26,117 | 21,332 | 4,785 | | | | |
| | | | 50%RB mid | 26,295 | 20,3303 | 5,9644 | 26,52 | 20,3479 | 6,1721 | | | | |
| | | | 100%RB | 25,856 | 20,568 | 5,288 | 26,405 | 19,2824 | 7,1226 | | | | |
| 20 MHz | 20850 | 2510 | 1RB low | 24,528 | 19,3205 | 5,2075 | 24,3695 | 18,6488 | 5,7207 | 21,113 | 20,433 | 21,81 | |
| | | | 1RB high | 25,393 | 21,1128 | 4,28 | 25,2404 | 20,4334 | 4,807 | | | | |
| | | | 50%RB mid | 25,442 | 18,9496 | 6,4919 | 25,6396 | 18,8759 | 6,7637 | | | | |
| | | | 100%RB | 25,401 | 19,0048 | 6,3961 | 26,2309 | 18,1703 | 8,0606 | | | | |
| | 21100 | 2535 | 1RB low | 25,514 | 20,9285 | 4,5857 | 25,292 | 20,2642 | 5,0278 | 20,929 | 20,306 | | |
| | | | 1RB high | 24,735 | 20,5542 | 4,1808 | 24,6088 | 19,8842 | 4,7246 | | | | |
| | | | 50%RB mid | 25,193 | 20,297 | 4,8962 | 25,1605 | 20,3057 | 4,8548 | | | | |
| | | | 100%RB | 25,824 | 20,1387 | 5,6852 | 26,2247 | 19,3446 | 6,8801 | | | | |
| | 21300 | 2555 | 1RB low | 25,046 | 19,4518 | 5,5946 | 24,8269 | 18,8482 | 5,9787 | 21,811 | 21,271 | | |
| | | | 1RB high | 26,114 | 21,8109 | 4,3028 | 26,0749 | 21,2708 | 4,8041 | | | | |
| | | | 50%RB mid | 26,128 | 19,8047 | 6,3236 | 26,4861 | 19,8539 | 6,6322 | | | | |
| | | | 100%RB | 26,197 | 19,9056 | 6,2918 | 26,8748 | 19,0159 | 7,8589 | | | | |

### 1.1.5. Power conducted LTE-Band 17

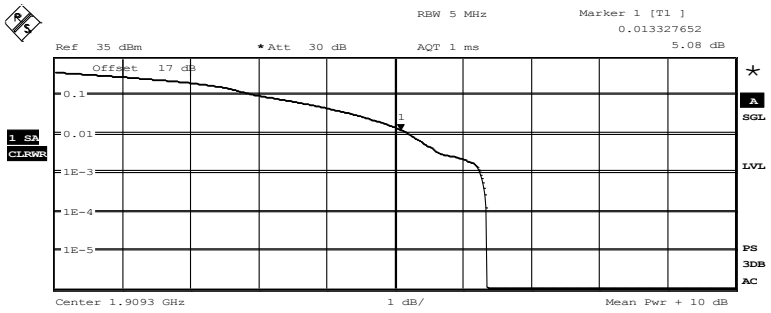
| LTE-Band 17 | | | | QPSK-Modulation | | | 16-QAM-Modulation | | | max- modulatio | max. modulatio | max. channel | absolute max. value |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| channel bandwidth | ARFCN ch. no. | ARFCN-Frequency [MHz] | Resource block allocation | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | Peak detektor [dBm] | RMS detektor [dBm] | PAR Faktor [dB] | | | | |
| 5 MHz | 23755 | 706,5 | 1RB low | 27,726 | 22,0732 | 5,6527 | 26,8844 | 21,0836 | 5,801 | 22,307 | 21,297 | 22,31 | 22,42 |
| | | | 1RB high | 27,713 | 22,3069 | 5,4064 | 26,9551 | 21,2971 | 5,658 | | | | |
| | | | 50%RB mid | 27,7 | 21,2113 | 6,4886 | 27,3303 | 21,2884 | 6,042 | | | | |
| | | | 100%RB | 27,532 | 21,1813 | 6,3504 | 27,4538 | 20,1825 | 7,271 | | | | |
| | 23790 | 710 | 1RB low | 27,582 | 22,2551 | 5,327 | 26,851 | 21,2344 | 5,617 | 22,255 | 21,234 | | |
| | | | 1RB high | 28,148 | 21,5688 | 6,5789 | 26,6385 | 20,5685 | 6,07 | | | | |
| | | | 50%RB mid | 27,5 | 21,0195 | 6,4803 | 27,7442 | 21,0449 | 6,699 | | | | |
| | | | 100%RB | 27,354 | 20,9976 | 6,356 | 27,219 | 19,9816 | 7,237 | | | | |
| | 23825 | 713,5 | 1RB low | 28,209 | 21,8198 | 6,389 | 26,7921 | 20,7959 | 5,996 | 21,873 | 20,955 | | |
| | | | 1RB high | 27,952 | 21,873 | 6,079 | 26,9238 | 20,9546 | 5,969 | | | | |
| | | | 50%RB mid | 27,571 | 20,5736 | 6,9974 | 27,8513 | 20,5686 | 7,283 | | | | |
| | | | 100%RB | 27,218 | 20,6491 | 6,5684 | 27,2954 | 19,6095 | 7,686 | | | | |
| 10 MHz | 23780 | 709 | 1RB low | 27,144 | 22,1262 | 5,0178 | 27,5746 | 21,6843 | 5,89 | 22,126 | 21,684 | 22,42 | |
| | | | 1RB high | 27,209 | 21,7171 | 5,4915 | 28,0042 | 21,3114 | 6,693 | | | | |
| | | | 50%RB mid | 27,427 | 21,1515 | 6,2759 | 27,1619 | 20,1873 | 6,975 | | | | |
| | | | 100%RB | 27,49 | 21,0113 | 6,479 | 27,9039 | 20,0023 | 7,902 | | | | |
| | 23790 | 710 | 1RB low | 27,196 | 22,3767 | 4,8189 | 27,4728 | 21,9071 | 5,566 | 22,377 | 21,907 | | |
| | | | 1RB high | 27,192 | 21,7265 | 5,4655 | 28,0059 | 21,3309 | 6,675 | | | | |
| | | | 50%RB mid | 27,413 | 21,0098 | 6,4036 | 27,304 | 20,0655 | 7,239 | | | | |
| | | | 100%RB | 27,501 | 21,0083 | 6,4922 | 27,9559 | 19,9594 | 7,997 | | | | |
| | 23800 | 711 | 1RB low | 27,146 | 22,4247 | 4,7217 | 27,4247 | 21,9594 | 5,465 | 22,425 | 21,959 | | |
| | | | 1RB high | 27,631 | 21,9158 | 5,7151 | 27,977 | 21,6641 | 6,313 | | | | |
| | | | 50%RB mid | 27,555 | 20,8767 | 6,6787 | 27,2518 | 19,881 | 7,371 | | | | |
| | | | 100%RB | 27,188 | 20,974 | 6,2138 | 27,8926 | 19,9097 | 7,983 | | | | |

# 1.2. PAPR-Value (CCDF plots)

## 1.2.1. LTE Band 2

Worst-Case of each maximum Peak power value was tested with the CCDF method

### 1.2.1.1. 1.4MHz signal bandwidth

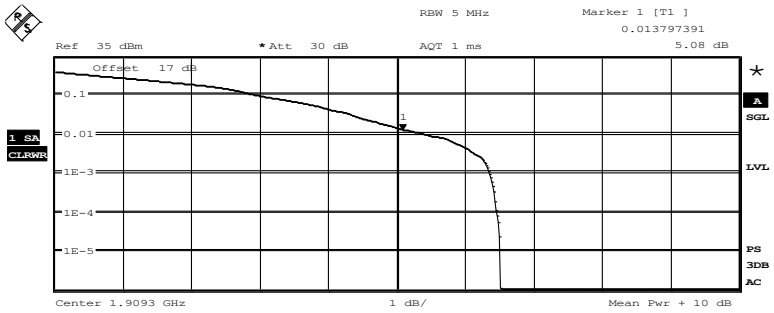



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.50 dBm |
| Peak | 27.85 dBm |
| Crest | 6.35 dB |
| 10 % | 3.04 dB |
| 1 % | 5.21 dB |
| .1 % | 6.25 dB |
| .01 % | 6.35 dB |

Date: 21.SEP.2017 12:44:17

***Diagram:*** QPSK 1.4 MHz CH19193, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.34 dBm |
| Peak | 27.85 dBm |
| Crest | 6.51 dB |
| 10 % | 3.01 dB |
| 1 % | 5.43 dB |
| .1 % | 6.36 dB |
| .01 % | 6.46 dB |

Date: 21.SEP.2017 12:49:40

***Diagram:*** 16 QAM 1.4 MHz CH19193, 50% RB

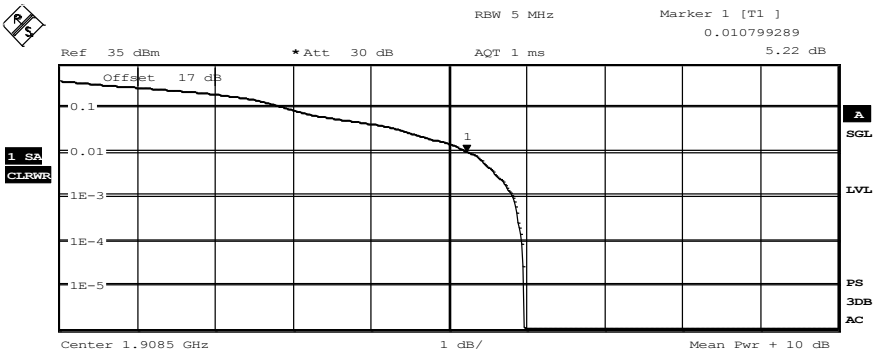
**1.2.1.2. 3MHz signal bandwidth**


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.48 dBm |
| Peak | 27.57 dBm |
| Crest | 5.09 dB |
| 10 % | 2.72 dB |
| 1 % | 4.73 dB |
| .1 % | 5.02 dB |
| .01 % | 5.10 dB |

Date: 21.SEP.2017 13:16:27

***Diagram:*** QPSK 3 MHz CH19185, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.61 dBm |
| Peak | 27.57 dBm |
| Crest | 5.96 dB |
| 10 % | 2.93 dB |
| 1 % | 5.27 dB |
| .1 % | 5.83 dB |
| .01 % | 5.95 dB |

Date: 21.SEP.2017 13:17:56

***Diagram:*** 16 QAM 3 MHz CH19185, 1 RB high

**1.2.1.3. 5MHz signal bandwidth**


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.34 dBm |
| Peak | 27.43 dBm |
| Crest | 5.09 dB |
| 10 % | 2.60 dB |
| 1 % | 4.50 dB |
| .1 % | 4.94 dB |
| .01 % | 5.05 dB |

Date: 21.SEP.2017 13:20:28

***Diagram:*** QPSK 5 MHz CH19175, 1 RB high

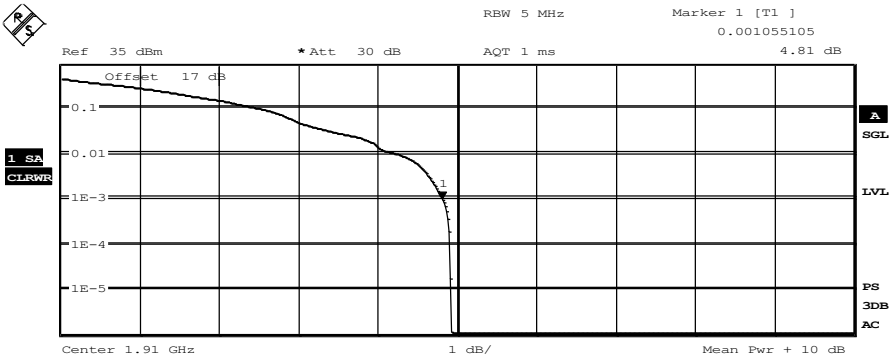

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.28 dBm |
| Peak | 27.21 dBm |
| Crest | 5.93 dB |
| 10 % | 3.06 dB |
| 1 % | 4.82 dB |
| .1 % | 5.83 dB |
| .01 % | 5.93 dB |

Date: 21.SEP.2017 13:21:16

***Diagram:*** 16 QAM 5 MHz CH19175, 1 RB high

**1.2.1.4. 10MHz signal bandwidth**

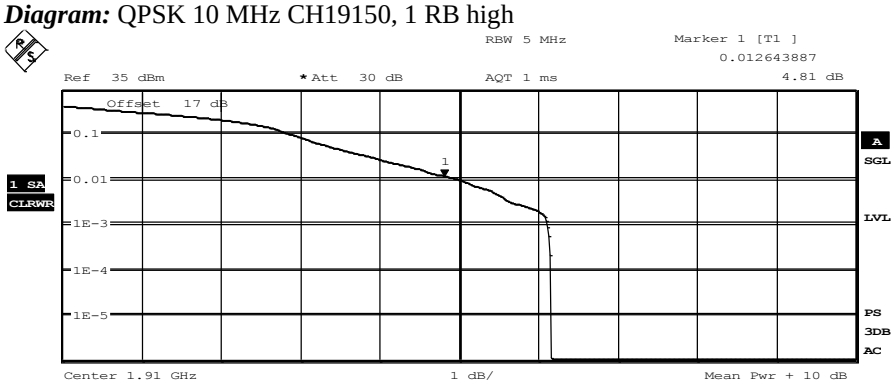



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.65 dBm |
| Peak | 27.57 dBm |
| Crest | 4.91 dB |
| 10 % | 2.55 dB |
| 1 % | 4.25 dB |
| .1 % | 4.81 dB |
| .01 % | 4.92 dB |

Date: 21.SEP.2017 13:34:38

***Diagram:*** QPSK 10 MHz CH19150, 1 RB high



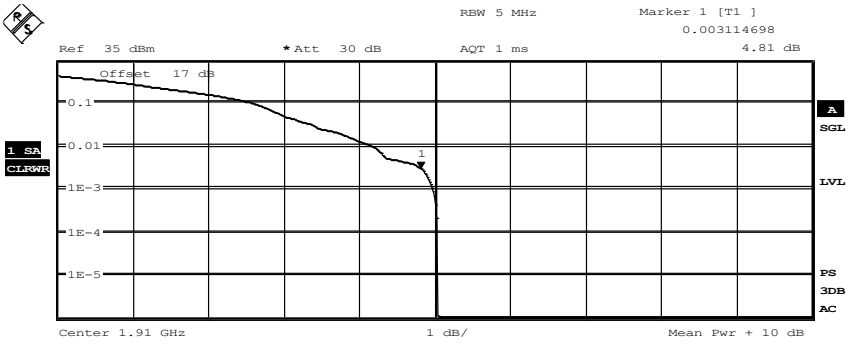

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.62 dBm |
| Peak | 27.78 dBm |
| Crest | 6.15 dB |
| 10 % | 2.92 dB |
| 1 % | 5.02 dB |
| .1 % | 6.12 dB |
| .01 % | 6.17 dB |

Date: 21.SEP.2017 13:35:58

***Diagram:*** 16 QAM 10 MHz CH19150, 1 RB high

**1.2.1.5. 15MHz signal bandwidth**

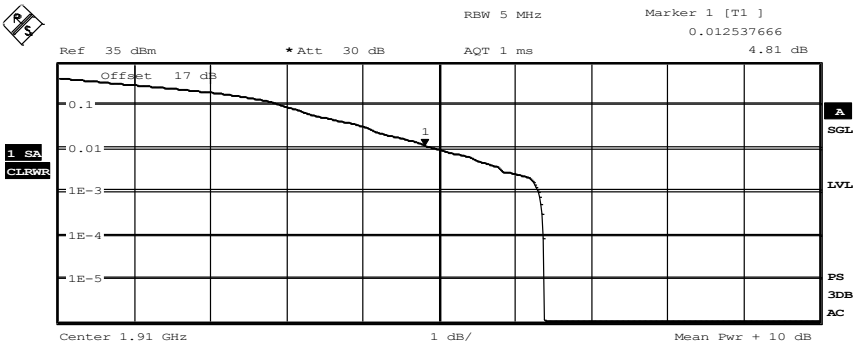



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.67 dBm |
| Peak | 27.71 dBm |
| Crest | 5.04 dB |
| 10 % | 2.61 dB |
| 1 % | 4.18 dB |
| .1 % | 4.97 dB |
| .01 % | 5.05 dB |

Date: 21.SEP.2017 13:38:11

***Diagram:*** QPSK 15 MHz CH19125, 1 RB high



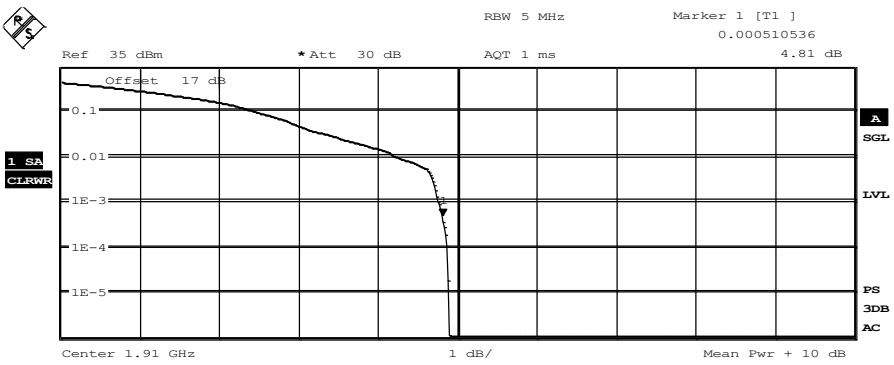

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.48 dBm |
| Peak | 27.85 dBm |
| Crest | 6.37 dB |
| 10 % | 2.96 dB |
| 1 % | 5.02 dB |
| .1 % | 6.31 dB |
| .01 % | 6.38 dB |

Date: 21.SEP.2017 13:39:02

***Diagram:*** 16 QAM 15 MHz CH19125, 1 RB high

**1.2.1.6. 20MHz signal bandwidth**

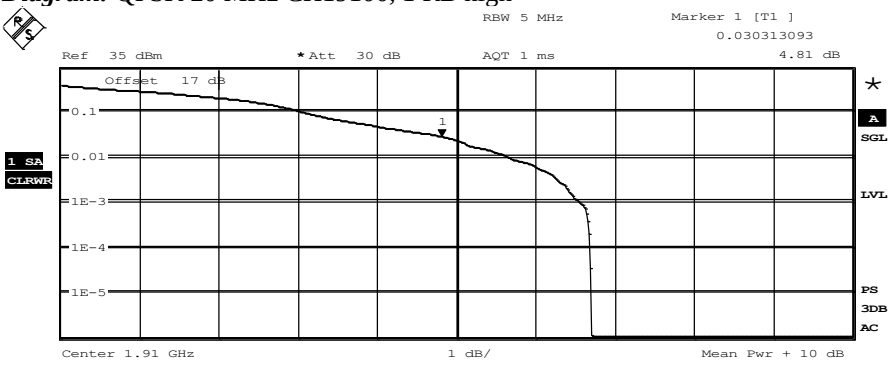



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 20.99 dBm |
| Peak | 25.87 dBm |
| Crest | 4.88 dB |
| 10 % | 2.47 dB |
| 1 % | 4.23 dB |
| .1 % | 4.76 dB |
| .01 % | 4.87 dB |

Date: 21.SEP.2017 13:40:38

***Diagram:*** QPSK 20 MHz CH19100, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 19.96 dBm |
| Peak | 26.65 dBm |
| Crest | 6.69 dB |
| 10 % | 3.11 dB |
| 1 % | 5.67 dB |
| .1 % | 6.55 dB |
| .01 % | 6.70 dB |

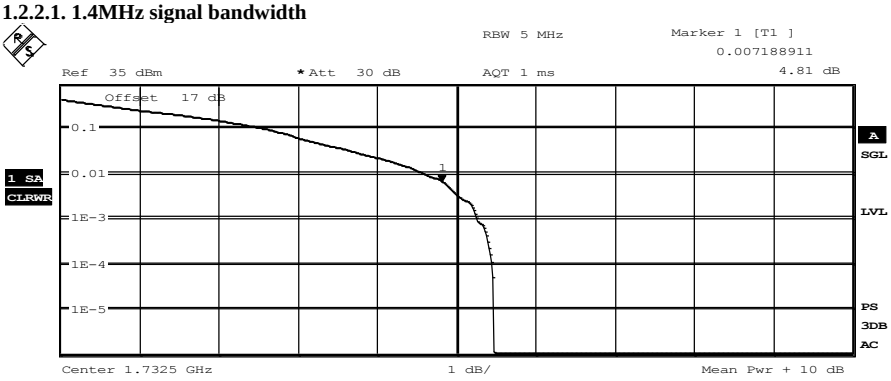
Date: 21.SEP.2017 13:41:28

***Diagram:*** 16 QAM 20 MHz CH19100, 1 RB high

### 1.2.2. LTE Band 4

Worst-Case of each maximum Peak power value was tested with the CCDF method

#### 1.2.2.1. 1.4MHz signal bandwidth

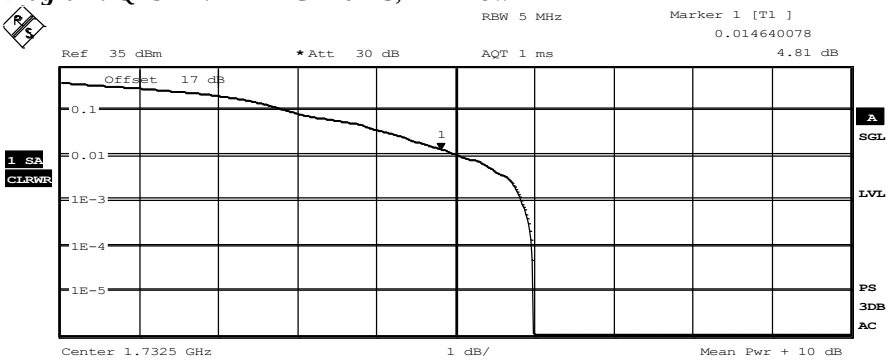



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.24 dBm |
| Peak | 27.71 dBm |
| Crest | 5.47 dB |
| 10 % | 2.63 dB |
| 1 % | 4.62 dB |
| .1 % | 5.26 dB |
| .01 % | 5.45 dB |

Date: 21.SEP.2017 13:44:51

***Diagram:*** QPSK 1.4 MHz CH20175, 1 RB low



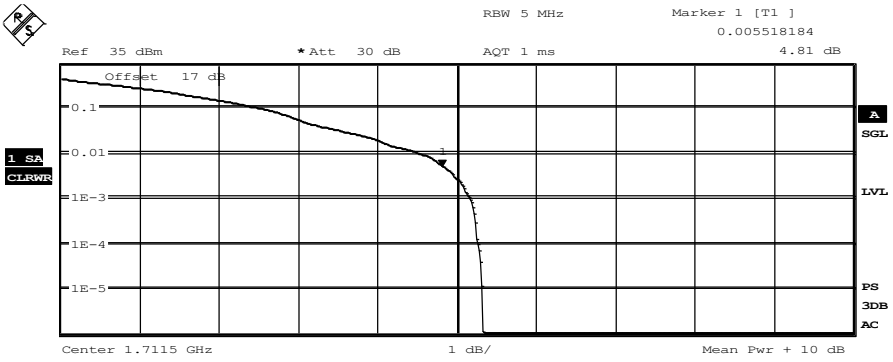

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.38 dBm |
| Peak | 27.36 dBm |
| Crest | 5.98 dB |
| 10 % | 2.90 dB |
| 1 % | 5.06 dB |
| .1 % | 5.83 dB |
| .01 % | 5.96 dB |

Date: 21.SEP.2017 13:46:06

***Diagram:*** 16 QAM 1.4 MHz CH20175, 1 RB high

**1.2.2.2. 3MHz signal bandwidth**

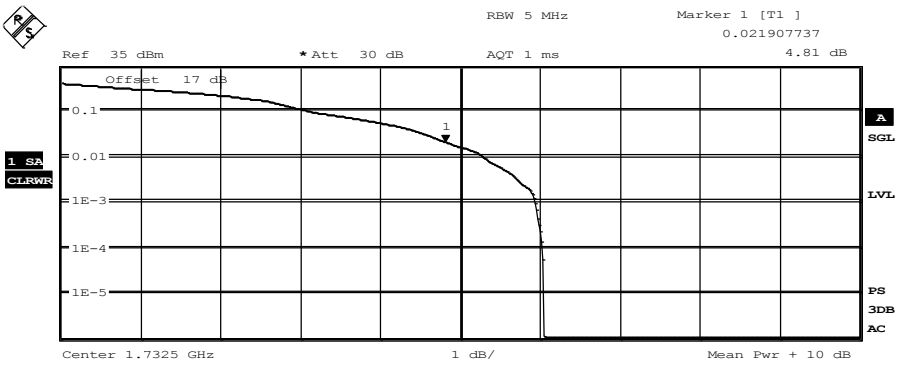



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.90 dBm |
| Peak | 27.21 dBm |
| Crest | 5.32 dB |
| 10 % | 2.58 dB |
| 1 % | 4.54 dB |
| .1 % | 5.16 dB |
| .01 % | 5.27 dB |

Date: 21.SEP.2017 13:48:05

***Diagram:*** QPSK 3 MHz CH19965, 1 RB high



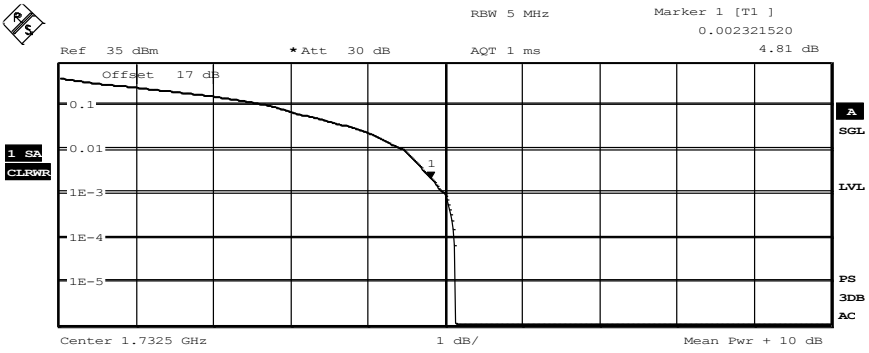

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.17 dBm |
| Peak | 27.21 dBm |
| Crest | 6.04 dB |
| 10 % | 3.16 dB |
| 1 % | 5.29 dB |
| .1 % | 5.95 dB |
| .01 % | 6.03 dB |

Date: 21.SEP.2017 13:50:28

***Diagram:*** 16 QAM 3 MHz CH20175, 1 RB high

**1.2.2.3. 5MHz signal bandwidth**

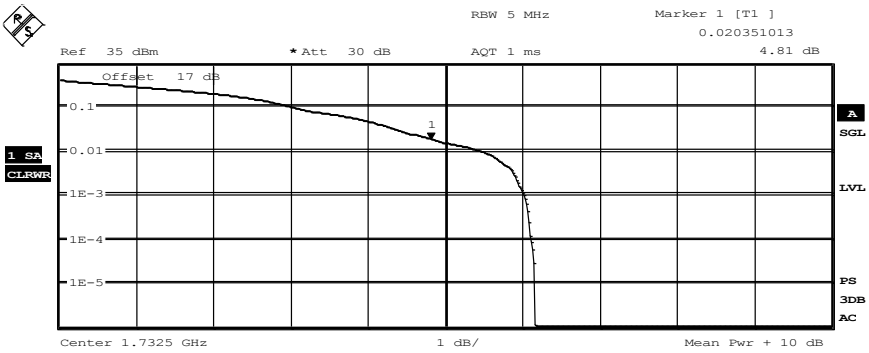



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.15 dBm |
| Peak | 27.28 dBm |
| Crest | 5.13 dB |
| 10 % | 2.77 dB |
| 1 % | 4.47 dB |
| .1 % | 5.00 dB |
| .01 % | 5.13 dB |

Date: 21.SEP.2017 13:57:04

***Diagram:*** QPSK 5 MHz CH20175, 1 RB high



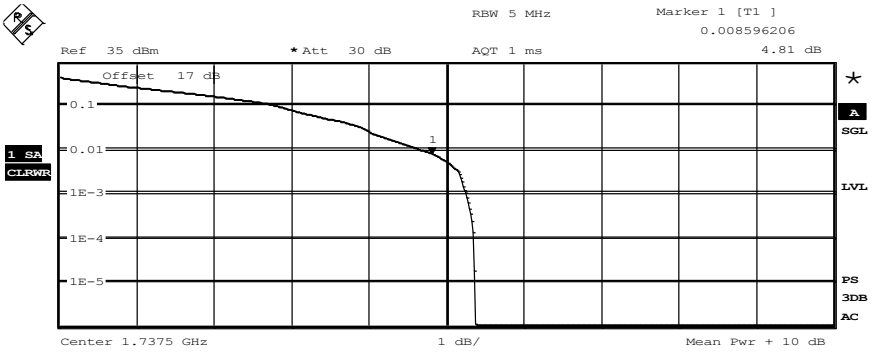

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 20.98 dBm |
| Peak | 27.14 dBm |
| Crest | 6.16 dB |
| 10 % | 3.06 dB |
| 1 % | 5.48 dB |
| .1 % | 6.03 dB |
| .01 % | 6.11 dB |

Date: 21.SEP.2017 13:58:03

***Diagram:*** 16 QAM 5 MHz CH20175, 1 RB high

**1.2.2.4. 10MHz signal bandwidth**

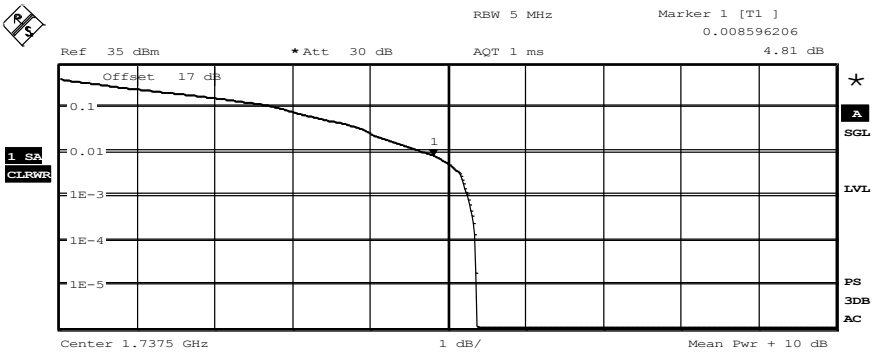



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.49 dBm |
| Peak | 27.85 dBm |
| Crest | 5.36 dB |
| 10 % | 2.84 dB |
| 1 % | 4.70 dB |
| .1 % | 5.26 dB |
| .01 % | 5.35 dB |

Date: 21.SEP.2017 14:00:54

***Diagram:*** QPSK 10 MHz CH20175, 1 RB high



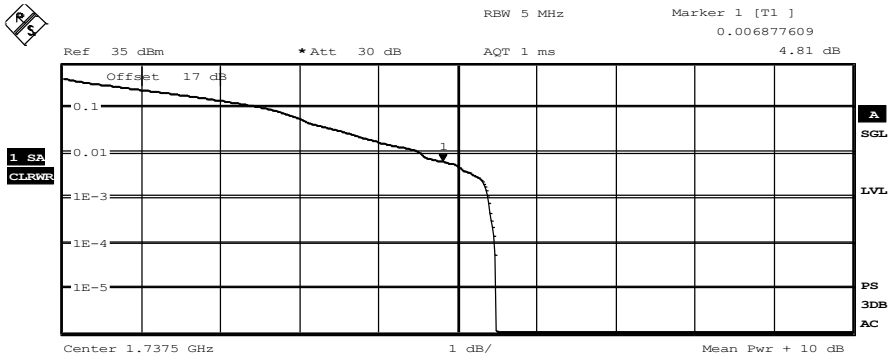

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.49 dBm |
| Peak | 27.85 dBm |
| Crest | 5.36 dB |
| 10 % | 2.84 dB |
| 1 % | 4.70 dB |
| .1 % | 5.26 dB |
| .01 % | 5.35 dB |

Date: 21.SEP.2017 14:01:39

***Diagram:*** 16 QAM 10 MHz CH20175, 1 RB high

**1.2.2.5. 15MHz signal bandwidth**

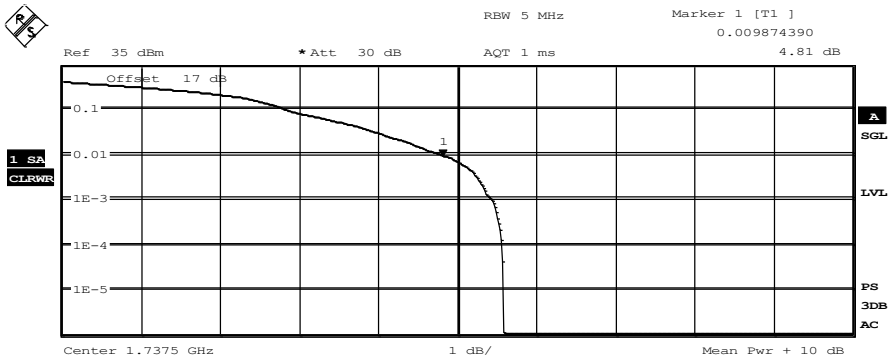



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.51 dBm |
| Peak | 27.99 dBm |
| Crest | 5.48 dB |
| 10 % | 2.60 dB |
| 1 % | 4.52 dB |
| .1 % | 5.38 dB |
| .01 % | 5.46 dB |

Date: 21.SEP.2017 14:03:00

***Diagram:*** QPSK 15 MHz CH20175, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.78 dBm |
| Peak | 27.36 dBm |
| Crest | 5.58 dB |
| 10 % | 2.85 dB |
| 1 % | 4.81 dB |
| .1 % | 5.43 dB |
| .01 % | 5.56 dB |

Date: 21.SEP.2017 14:03:46

***Diagram:*** 16 QAM 15 MHz CH20175, 1 RB high

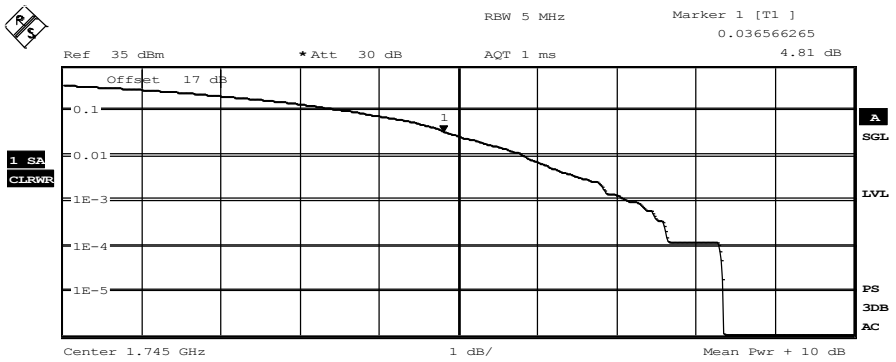
**1.2.2.6. 20MHz signal bandwidth**


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.83 dBm |
| Peak | 27.71 dBm |
| Crest | 4.88 dB |
| 10 % | 2.53 dB |
| 1 % | 4.17 dB |
| .1 % | 4.71 dB |
| .01 % | 4.86 dB |

Date: 21.SEP.2017 14:06:23

***Diagram:*** QPSK 20 MHz CH20300, 1 RB low




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 16.47 dBm |
| Peak | 24.82 dBm |
| Crest | 8.35 dB |
| 10 % | 3.67 dB |
| 1 % | 5.83 dB |
| .1 % | 7.23 dB |
| .01 % | 8.30 dB |

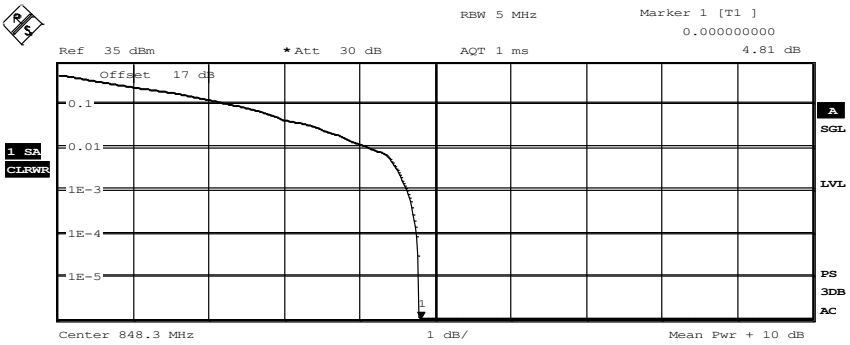
Date: 21.SEP.2017 14:08:34

***Diagram:*** 16 QAM 20 MHz CH20175, 100% RB

### 1.2.3. LTE Band 5

Worst-Case of each maximum Peak power value was tested with the CCDF method

**1.2.3.1. 1.4MHz signal bandwidth**

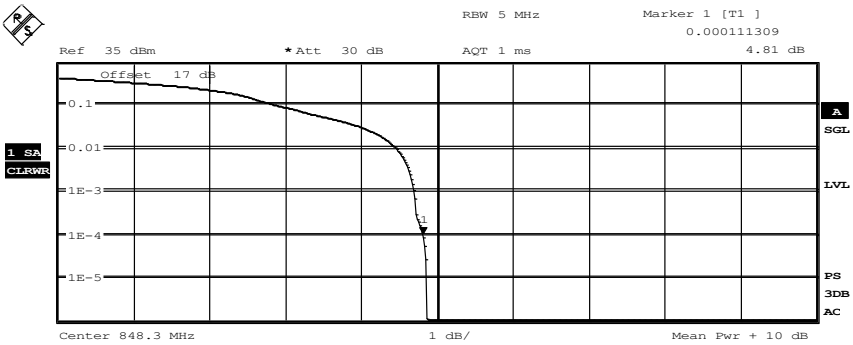



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.37 dBm |
| Peak | 27.14 dBm |
| Crest | 4.78 dB |
| 10 % | 2.36 dB |
| 1 % | 4.13 dB |
| .1 % | 4.63 dB |
| .01 % | 4.76 dB |

Date: 22.SEP.2017 09:35:48

***Diagram:*** QPSK 1.4 MHz CH20643, 1 RB low



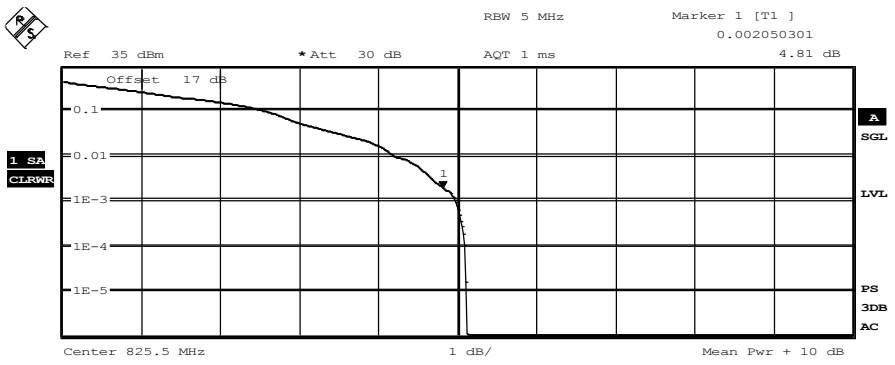

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.50 dBm |
| Peak | 26.37 dBm |
| Crest | 4.86 dB |
| 10 % | 2.92 dB |
| 1 % | 4.46 dB |
| .1 % | 4.70 dB |
| .01 % | 4.81 dB |

Date: 22.SEP.2017 09:38:22

***Diagram:*** 16 QAM 1.4 MHz CH20643, 1 RB low

**1.2.3.2. 3MHz signal bandwidth**

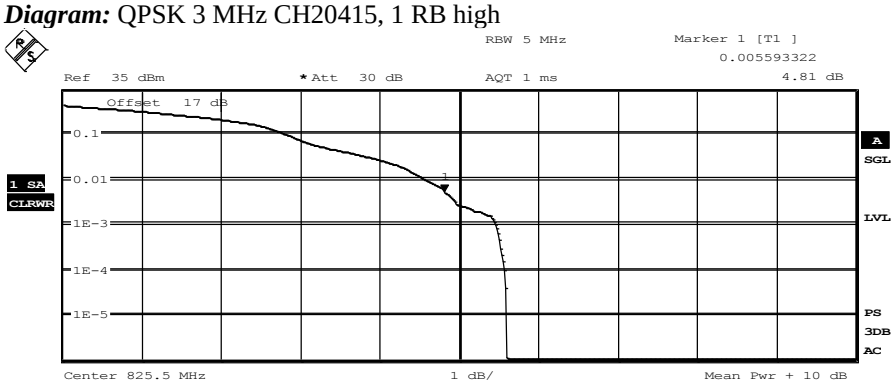



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.81 dBm |
| Peak | 27.92 dBm |
| Crest | 5.11 dB |
| 10 % | 2.60 dB |
| 1 % | 4.21 dB |
| .1 % | 4.97 dB |
| .01 % | 5.10 dB |

Date: 22.SEP.2017 09:40:27

***Diagram:*** QPSK 3 MHz CH20415, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.83 dBm |
| Peak | 27.43 dBm |
| Crest | 5.59 dB |
| 10 % | 2.84 dB |
| 1 % | 4.58 dB |
| .1 % | 5.46 dB |
| .01 % | 5.58 dB |

Date: 22.SEP.2017 09:41:39

***Diagram:*** 16 QAM 3 MHz CH20415, 1 RB high

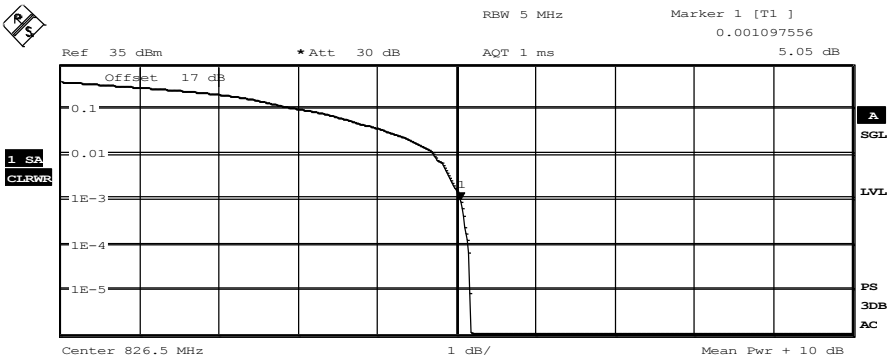
**1.2.3.3. 5MHz signal bandwidth**


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.56 dBm |
| Peak | 27.00 dBm |
| Crest | 4.44 dB |
| 10 % | 2.61 dB |
| 1 % | 4.04 dB |
| .1 % | 4.31 dB |
| .01 % | 4.42 dB |

Date: 22.SEP.2017 09:43:13

***Diagram:*** QPSK 5 MHz CH20425, 1 RB high



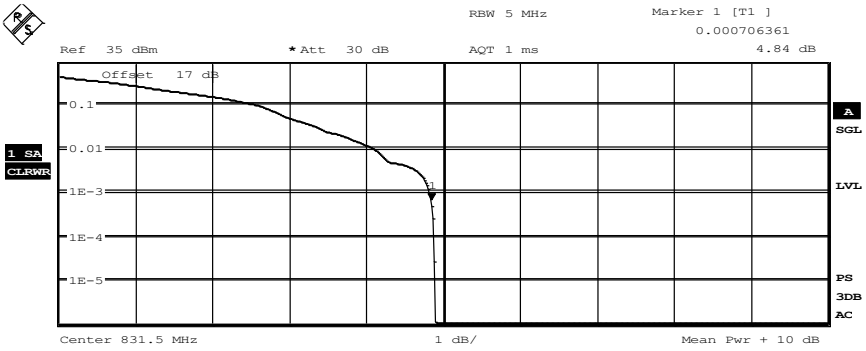

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.76 dBm |
| Peak | 26.93 dBm |
| Crest | 5.17 dB |
| 10 % | 3.11 dB |
| 1 % | 4.71 dB |
| .1 % | 5.05 dB |
| .01 % | 5.14 dB |

Date: 22.SEP.2017 09:44:34

***Diagram:*** 16 QAM 5 MHz CH20425, 1 RB high

**1.2.3.4. 10MHz signal bandwidth**

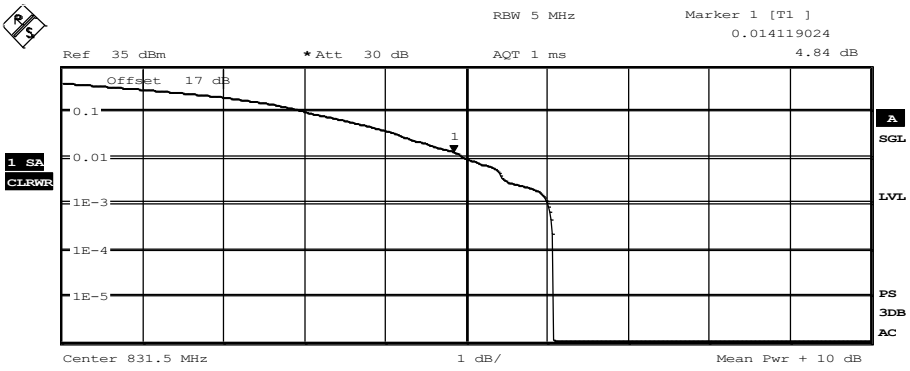



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.40 dBm |
| Peak | 27.28 dBm |
| Crest | 4.88 dB |
| 10 % | 2.61 dB |
| 1 % | 4.10 dB |
| .1 % | 4.82 dB |
| .01 % | 4.89 dB |

Date: 22.SEP.2017 09:47:08

***Diagram:*** QPSK 10 MHz CH20525, 1 RB low




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.35 dBm |
| Peak | 27.43 dBm |
| Crest | 6.08 dB |
| 10 % | 3.06 dB |
| 1 % | 5.00 dB |
| .1 % | 6.01 dB |
| .01 % | 6.09 dB |

Date: 22.SEP.2017 09:48:04

***Diagram:*** 16 QAM 10 MHz CH20525, 1 RB low

## 1.2.4. LTE Band 7

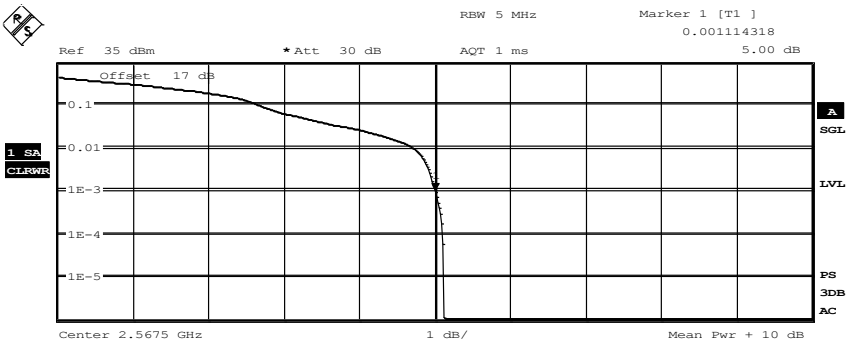
### 1.2.4.1. 5MHz signal bandwidth


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.04 dBm |
| Peak | 26.58 dBm |
| Crest | 4.54 dB |
| 10 % | 2.53 dB |
| 1 % | 4.05 dB |
| .1 % | 4.41 dB |
| .01 % | 4.52 dB |

Date: 22.SEP.2017 09:53:58

***Diagram:*** QPSK 5 MHz CH21425, 1 RB high



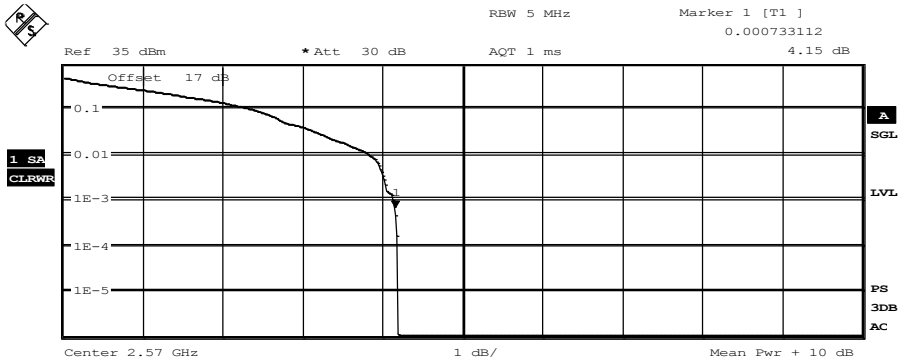

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.18 dBm |
| Peak | 26.30 dBm |
| Crest | 5.11 dB |
| 10 % | 2.69 dB |
| 1 % | 4.71 dB |
| .1 % | 5.02 dB |
| .01 % | 5.11 dB |

Date: 22.SEP.2017 09:55:21

***Diagram:*** 16 QAM 5 MHz CH21425, 50% RB

**1.2.4.2. 10MHz signal bandwidth**

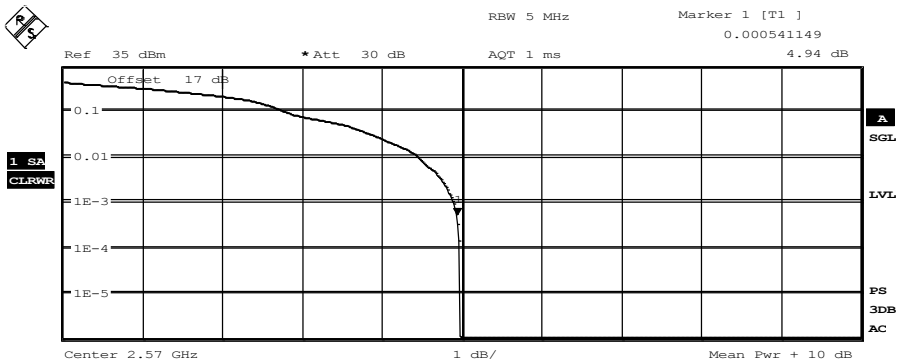



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.32 dBm |
| Peak | 26.51 dBm |
| Crest | 4.19 dB |
| 10 % | 2.39 dB |
| 1 % | 3.83 dB |
| .1 % | 4.13 dB |
| .01 % | 4.18 dB |

Date: 22.SEP.2017 10:15:45

***Diagram:*** QPSK 10 MHz CH21400, 1 RB high



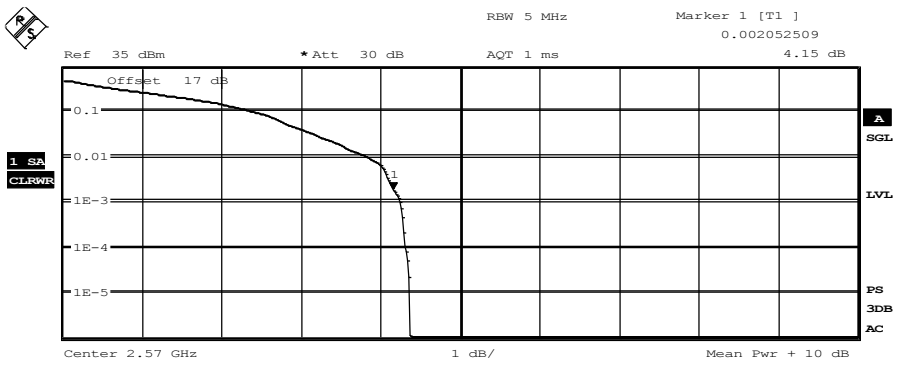

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.40 dBm |
| Peak | 26.37 dBm |
| Crest | 4.97 dB |
| 10 % | 2.80 dB |
| 1 % | 4.46 dB |
| .1 % | 4.90 dB |
| .01 % | 4.97 dB |

Date: 22.SEP.2017 10:14:24

***Diagram:*** 16 QAM 10 MHz CH21400, 1 RB high

**1.2.4.3. 15MHz signal bandwidth**

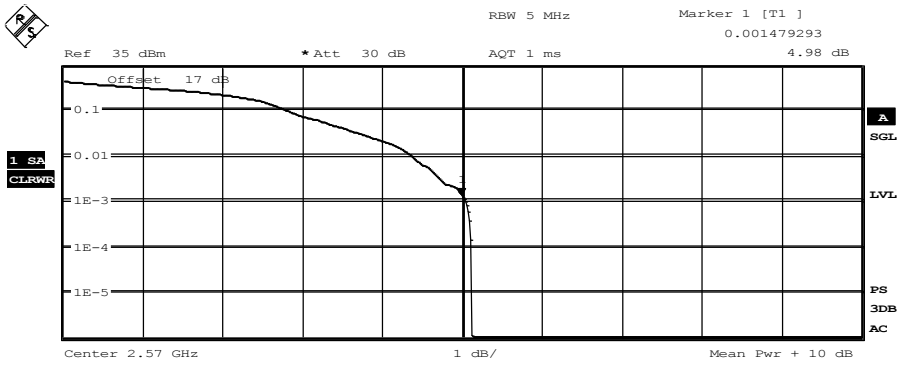



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.29 dBm |
| Peak | 26.65 dBm |
| Crest | 4.36 dB |
| 10 % | 2.42 dB |
| 1 % | 3.83 dB |
| .1 % | 4.25 dB |
| .01 % | 4.31 dB |

Date: 22.SEP.2017 10:18:35

***Diagram:*** QPSK 15 MHz CH21375, 1 RB high



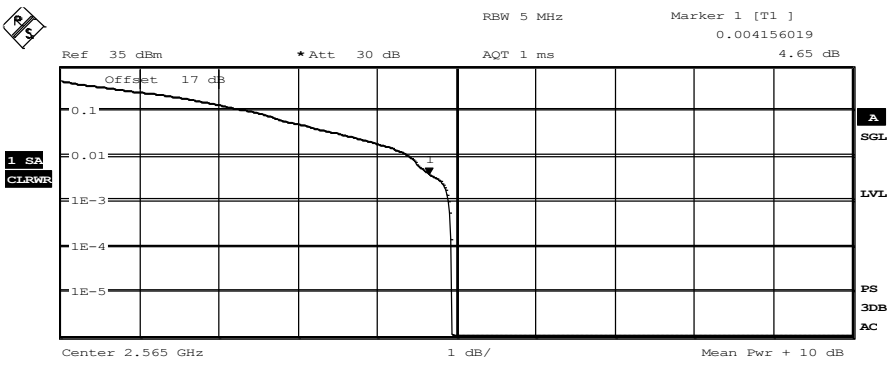

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.32 dBm |
| Peak | 26.44 dBm |
| Crest | 5.11 dB |
| 10 % | 2.82 dB |
| 1 % | 4.38 dB |
| .1 % | 5.05 dB |
| .01 % | 5.11 dB |

Date: 22.SEP.2017 10:19:34

***Diagram:*** 16 QAM 15 MHz CH21375, 1 RB high

**1.2.4.4. 20MHz signal bandwidth**

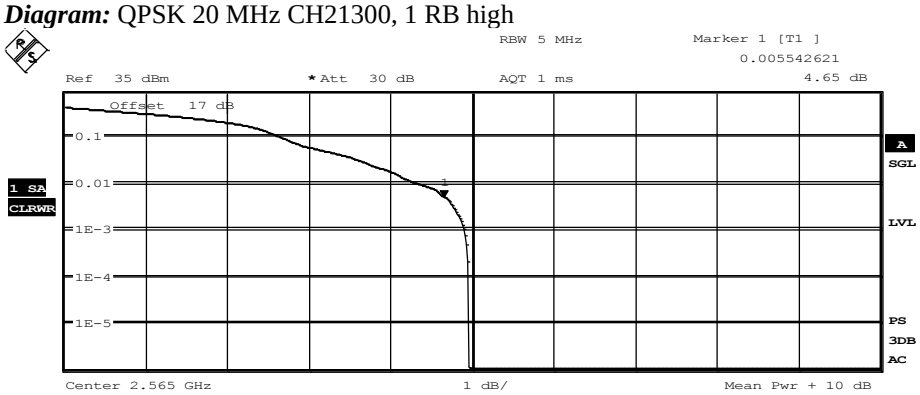



**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.00 dBm |
| Peak | 26.93 dBm |
| Crest | 4.93 dB |
| 10 % | 2.44 dB |
| 1 % | 4.41 dB |
| .1 % | 4.90 dB |
| .01 % | 4.94 dB |

Date: 22.SEP.2017 10:37:18

***Diagram:*** QPSK 20 MHz CH21300, 1 RB high




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 21.13 dBm |
| Peak | 26.09 dBm |
| Crest | 4.96 dB |
| 10 % | 2.68 dB |
| 1 % | 4.36 dB |
| .1 % | 4.90 dB |
| .01 % | 4.97 dB |

Date: 22.SEP.2017 10:40:19

***Diagram:*** 16 QAM 20 MHz CH21300, 1 RB high

### 1.2.5. LTE Band 17

Worst-Case of each maximum Peak power value was tested with the CCDF method

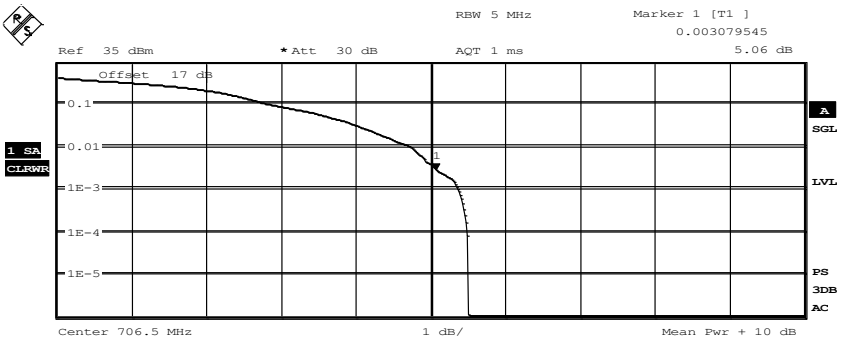
**1.2.5.1. 5MHz signal bandwidth**


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.94 dBm |
| Peak | 28.13 dBm |
| Crest | 5.20 dB |
| 10 % | 2.74 dB |
| 1 % | 4.65 dB |
| .1 % | 5.10 dB |
| .01 % | 5.19 dB |

Date: 22.SEP.2017 10:48:18

***Diagram:*** QPSK 5 MHz CH23755, 1 RB high



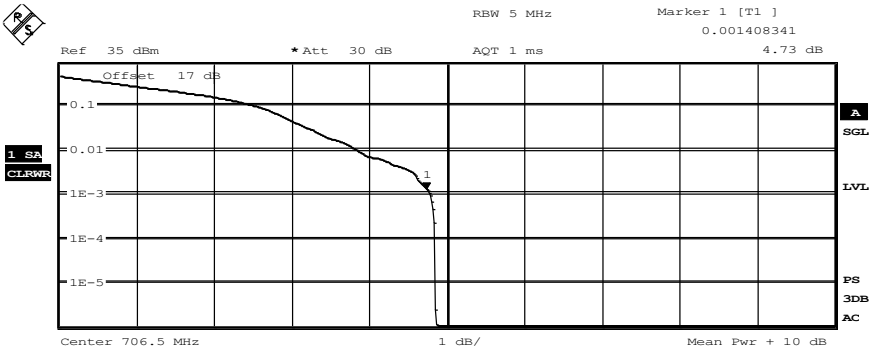

**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.28 dBm |
| Peak | 27.78 dBm |
| Crest | 5.50 dB |
| 10 % | 2.88 dB |
| 1 % | 4.74 dB |
| .1 % | 5.37 dB |
| .01 % | 5.50 dB |

Date: 22.SEP.2017 10:49:29

***Diagram:*** 16 QAM 5 MHz CH23755, 1 RB high

**1.2.5.2. 10MHz signal bandwidth**




**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 23.28 dBm |
| Peak | 28.13 dBm |
| Crest | 4.85 dB |
| 10 % | 2.56 dB |
| 1 % | 3.85 dB |
| .1 % | 4.78 dB |
| .01 % | 4.86 dB |

Date: 22.SEP.2017 10:51:12

***Diagram:*** QPSK 10 MHz CH23800, 1 RB low


**Complementary Cumulative Distribution Function**
**NOF samples: 8000, Usable BW: 7.1MHz**

| | Trace 1 |
|---|---|
| Mean | 22.11 dBm |
| Peak | 27.78 dBm |
| Crest | 5.66 dB |
| 10 % | 2.92 dB |
| 1 % | 4.95 dB |
| .1 % | 5.64 dB |
| .01 % | 5.67 dB |

Date: 22.SEP.2017 10:52:16

***Diagram:*** 16 QAM 10 MHz CH23800, 1 RB low

## 1.3. Spurious emissions radiated (LTE Band 2)

### 1.3.1. Magnetic field strength radiated (LTE Band 2)

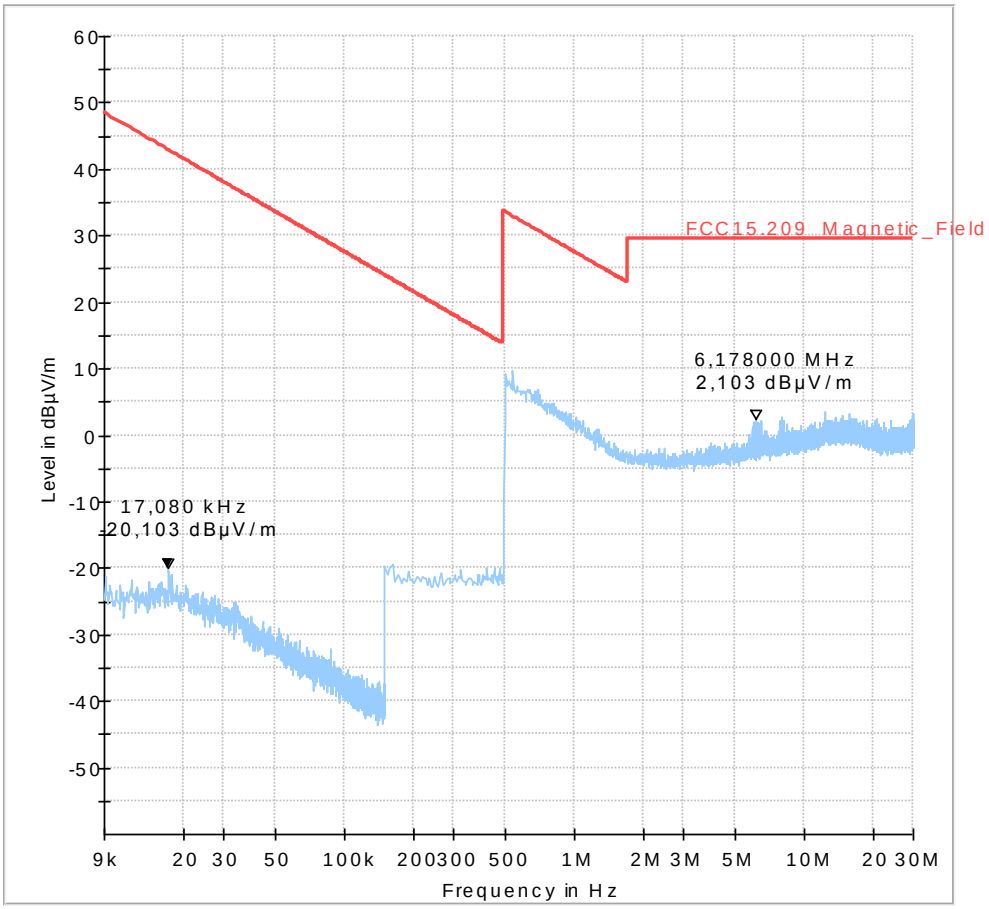
# 2.01_RSE_ R_Ch18607_BW_1,4

**Common Information**

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_1,4MHz_1RB low_CH_18607 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



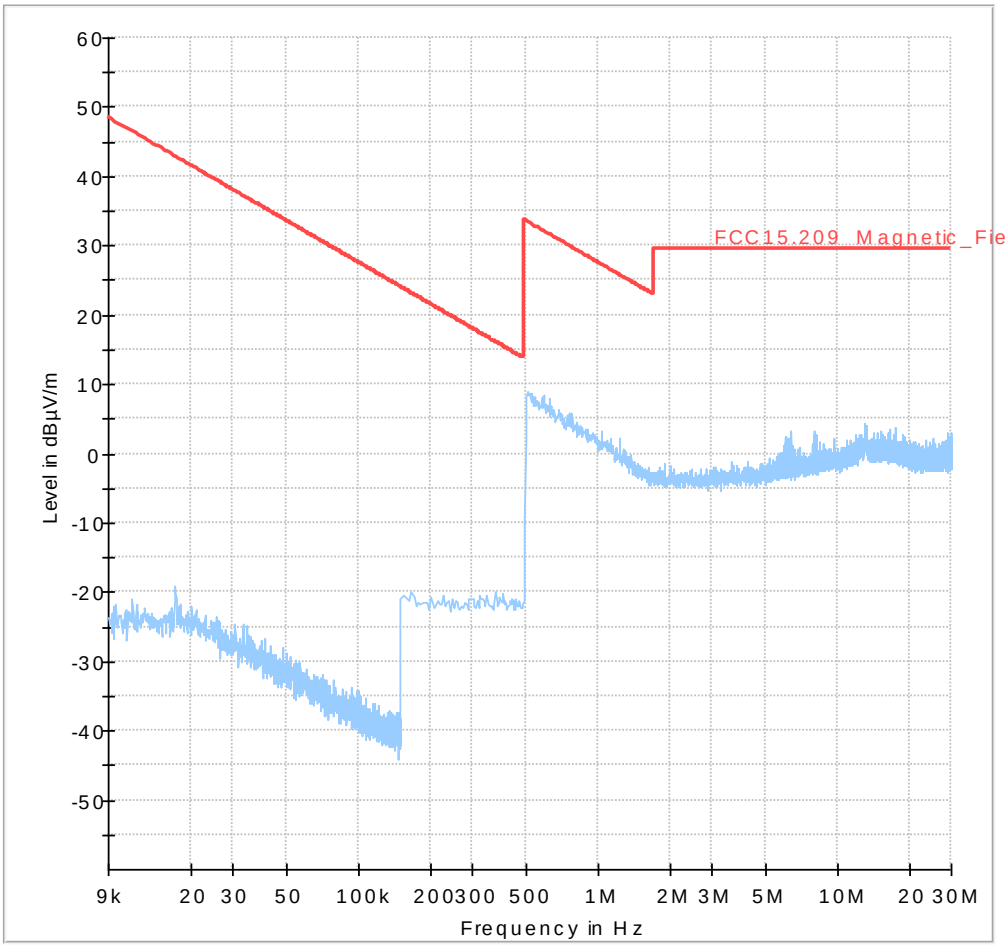
# 2.02_RSE_ R_Ch18900_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_10MHz _1RB high_CH_18900 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



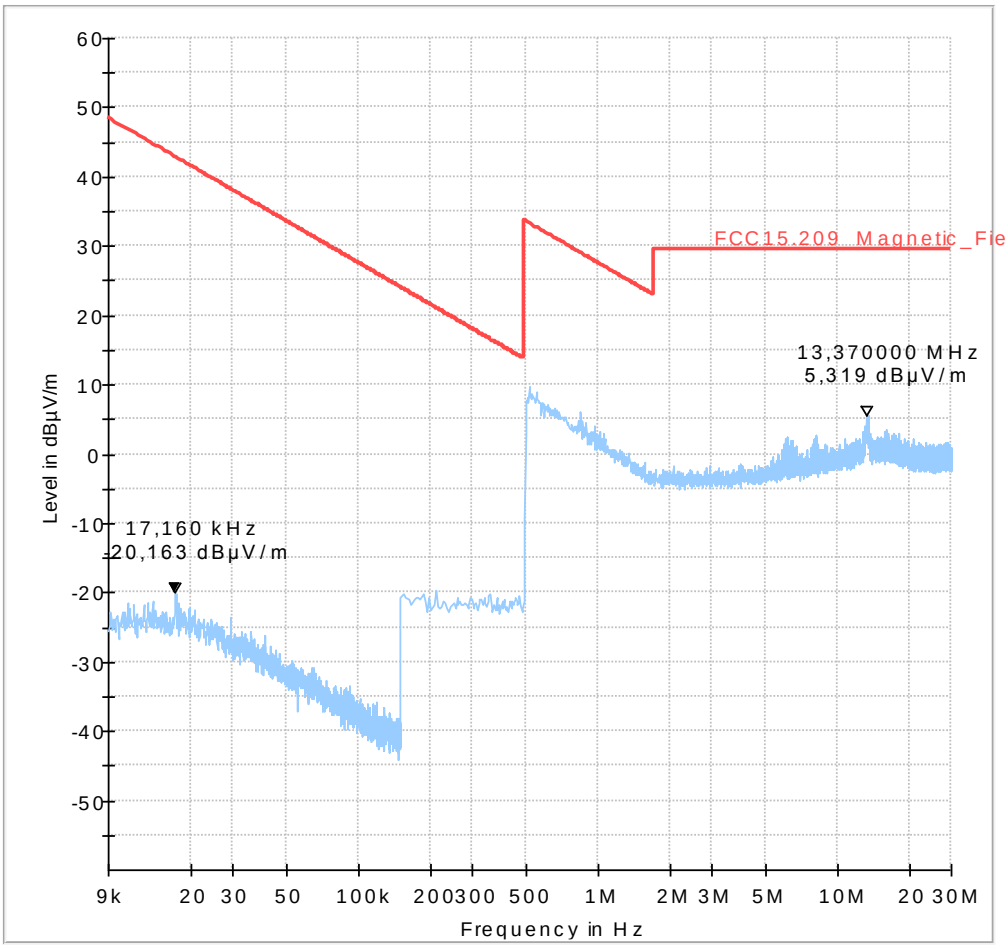
# 2.03_RSE_ R_Ch19150_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_10MHz_1RB high _CH_19150 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



### 1.3.2. Emissions above 30MHz (LTE Band 2)

# 8.01_RSE_ R_Ch18607_BW_1,4

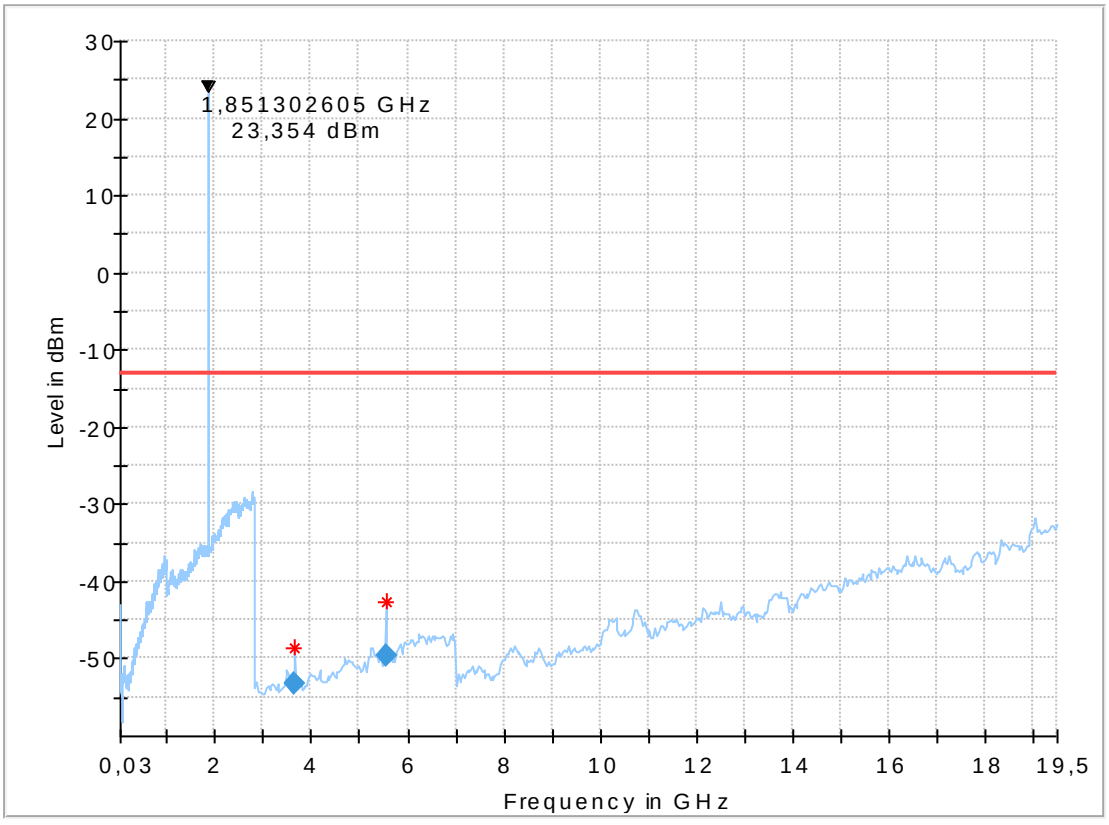
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BW_1,4MHz _1RB low_Ch_18607 |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 25°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 3669.753507 | -53.27 | -13.00 | 40.27 | 10000.0 | 1000.000 | H | 272.0 | 0.0 | -94.8 |
| 5544.382765 | -49.62 | -13.00 | 36.62 | 10000.0 | 1000.000 | H | 248.0 | 0.0 | -89.9 |

# 8.02_RSE_ R_Ch18900_BW_10

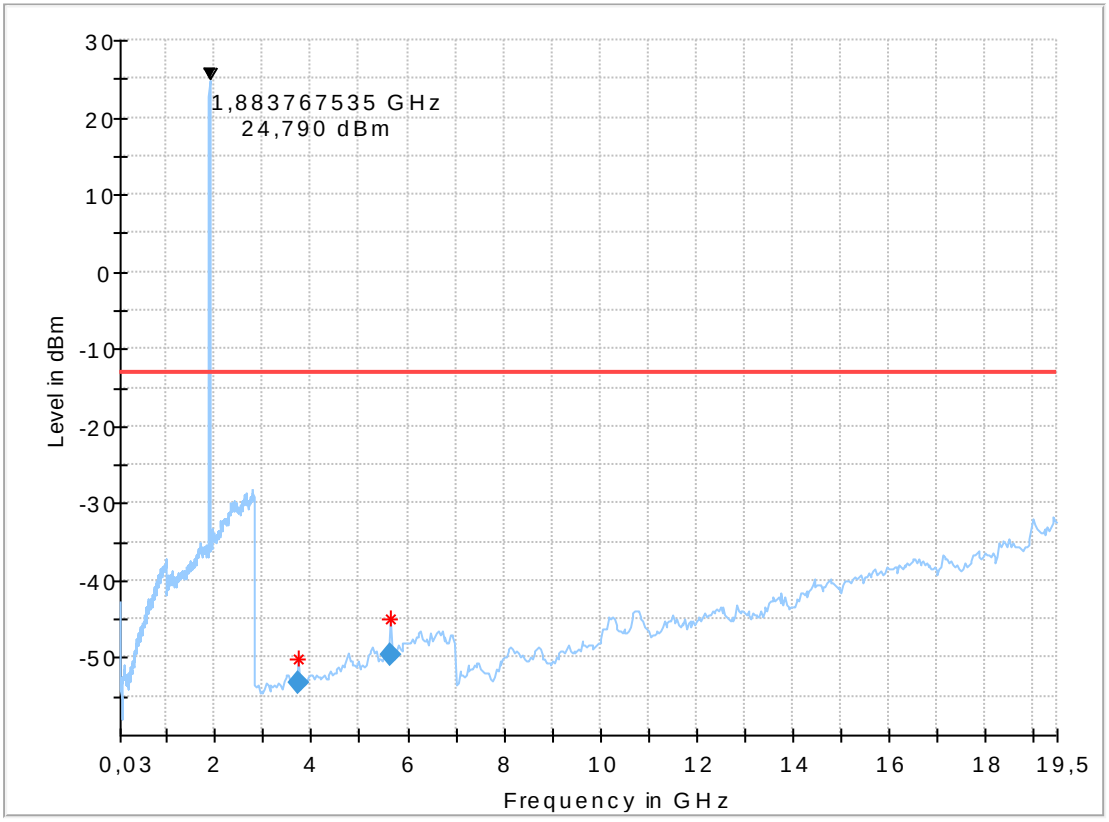
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BW_10MHz_1RB high_Ch_18900 |
| Environmental Conditions: | Humidity: 50%rH; Temperature: 25°C |
| Operator: | |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 3736.775551 | -53.38 | -13.00 | 40.38 | 10000.0 | 1000.000 | H | 203.0 | 0.0 | -95.0 |
| 5644.274549 | -49.68 | -13.00 | 36.68 | 10000.0 | 1000.000 | H | 294.0 | 0.0 | -89.7 |

# 8.03_RSE_ R_Ch19150_BW_10

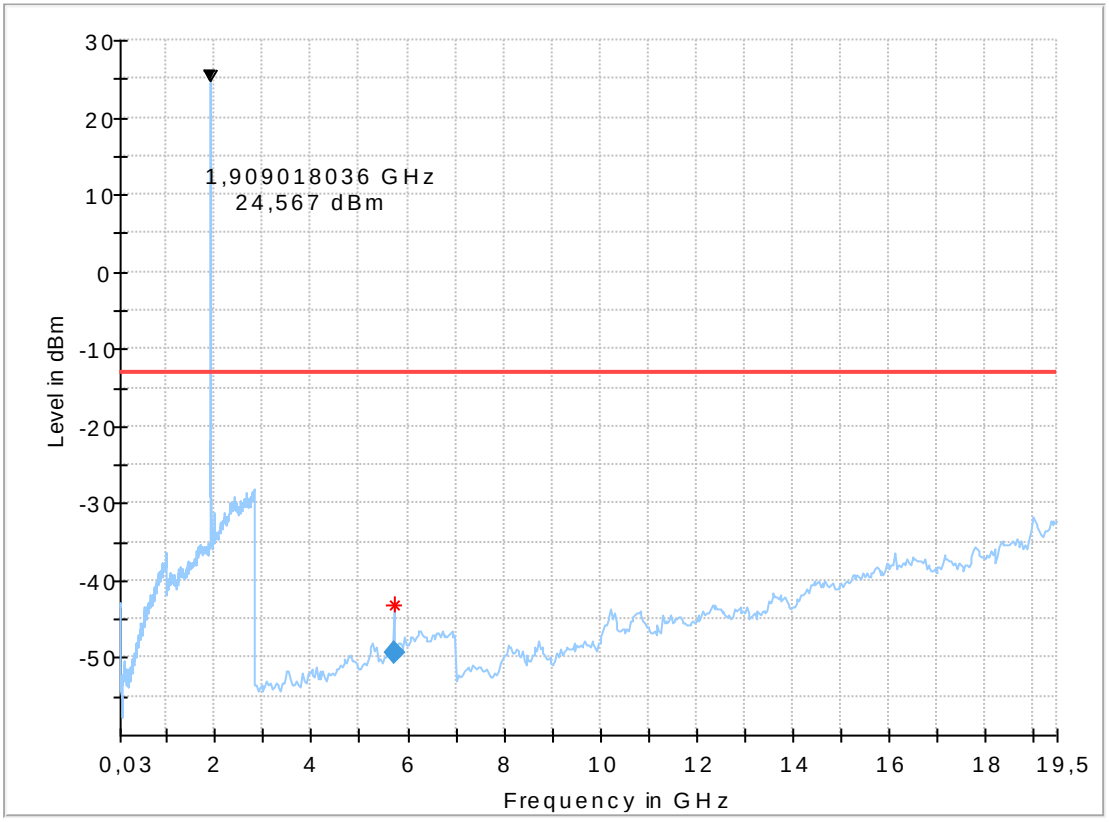
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDDII |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BW_10MHz _1RB high_Ch_19150 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | MaxPeak (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 5712.290582 | -49.44 | -13.00 | 36.44 | 10000.0 | 1000.000 | H | 241.0 | 0.0 | -89.5 |

## 1.4. Spurious emissions radiated (LTE Band 4)

### 1.4.1. Magnetic field strength radiated (LTE Band 4)

# Diagram No. 2.11_RSE_R_Ch19965_BW_3

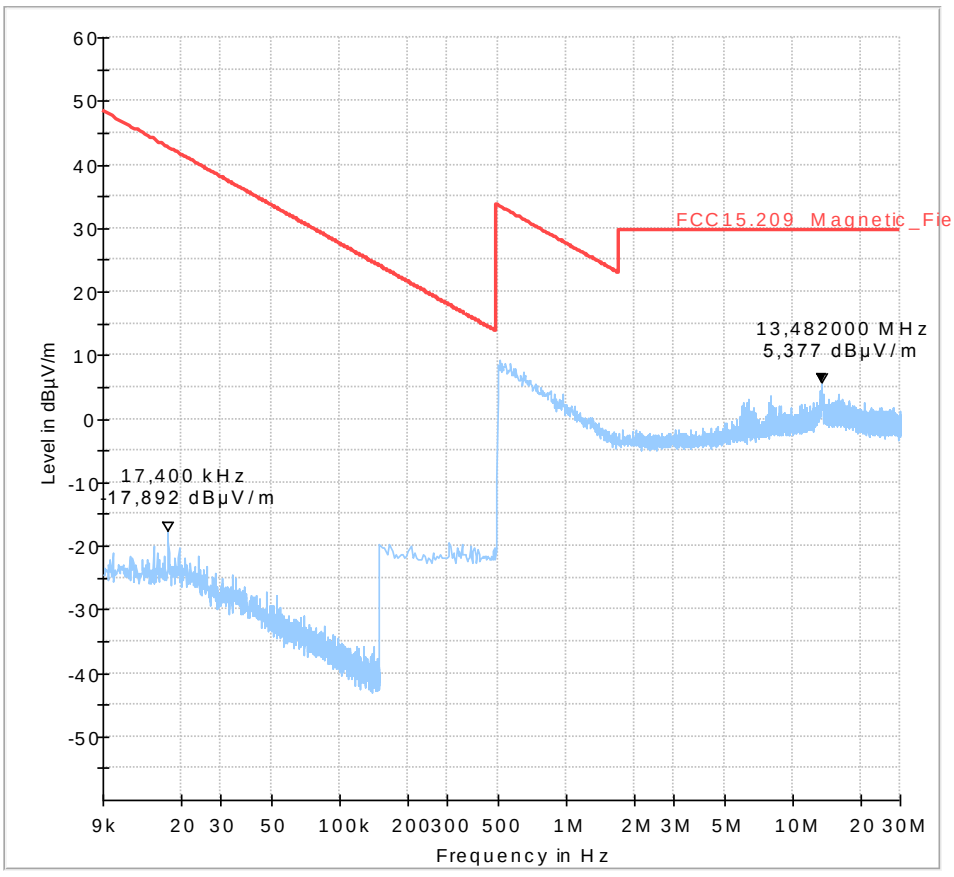
### Common Information

| | |
|---|---|
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V9.25.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operator: | RIs |
| Operating conditions: | BW_3MHz _1RB high_Ch_19965 |
| Power during tests: | 24V DC |
| Comment 1: | Channel low |

### EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# Diagram No. 2.12_RSE_R_Ch20175_BW_10

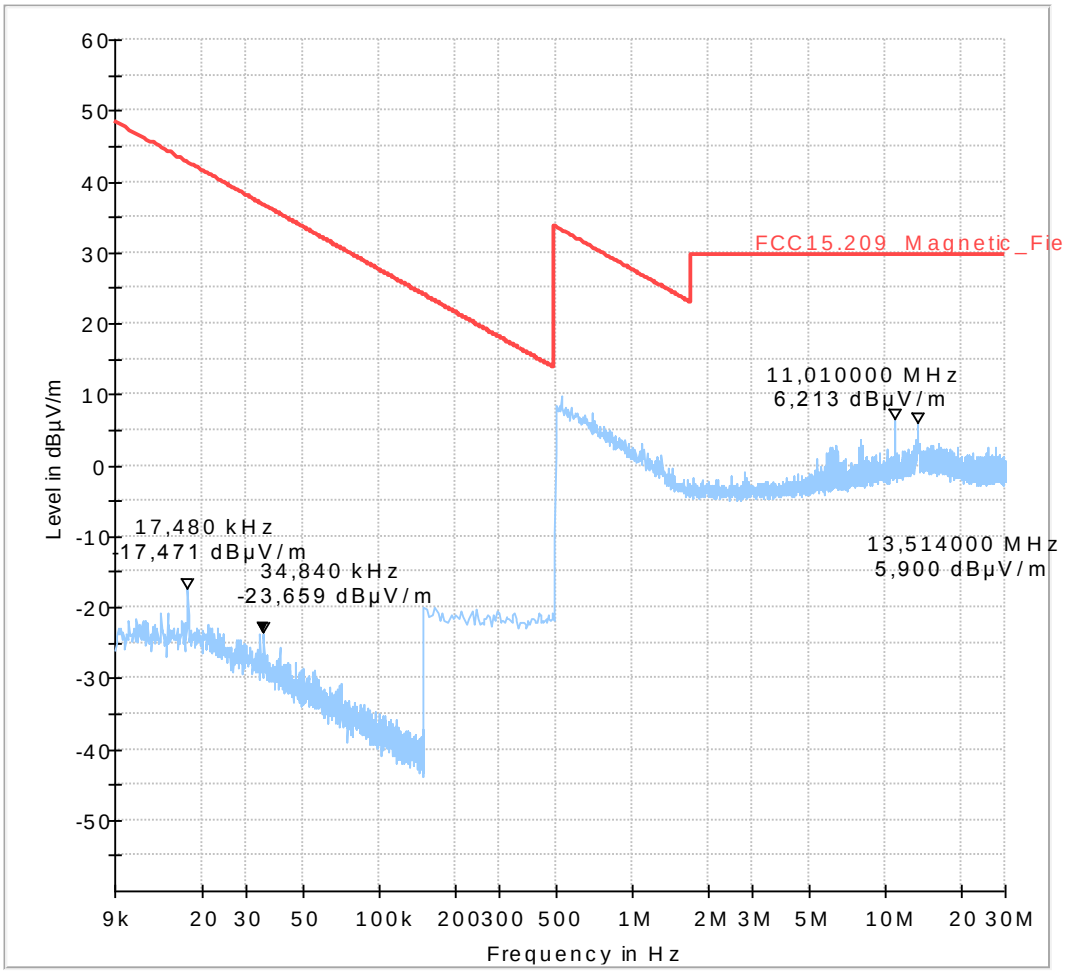
## Common Information

| | |
|---|---|
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V9.25.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operator: | RIs |
| Operating conditions: | BW_10MHz_1RB_high_QPSK_CH_20175 |
| Power during tests: | 24V DC |
| Comment 1: | Channel low |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



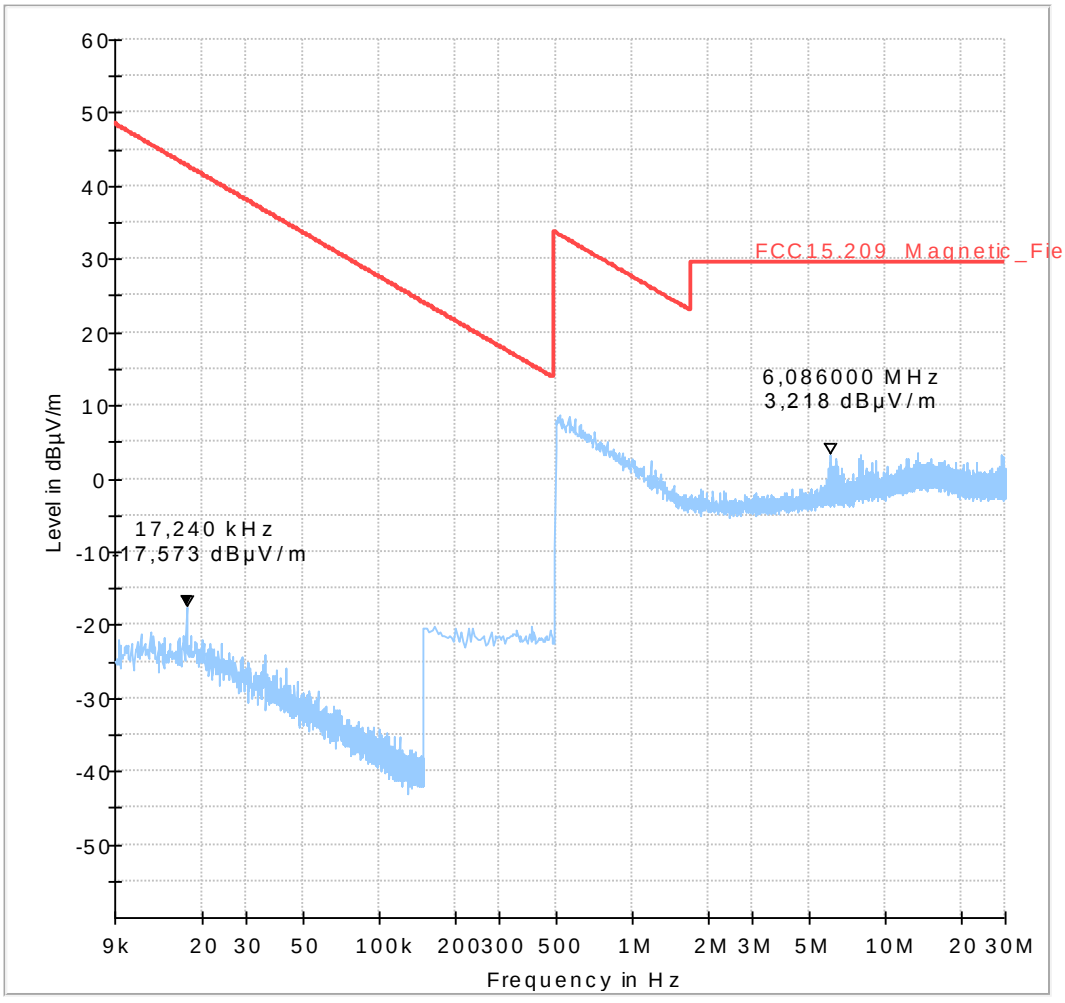
# Diagram No.2.13_RSE_R_Ch20300_BW_20

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_20MHz_RB_low_QPSK_CH_20300 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



### 1.4.2. Emissions above 30MHz (LTE Band 4)

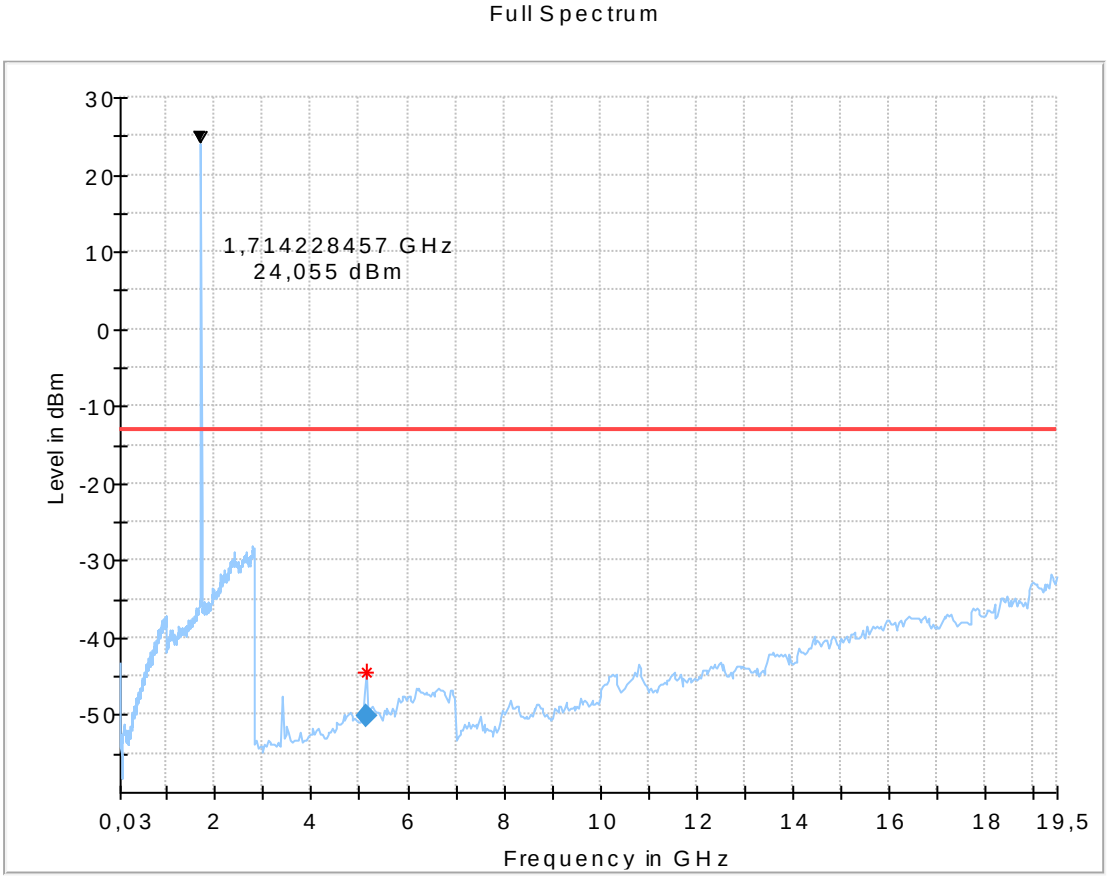
# 8.11_RSE_R_Ch19965_BW_3

## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDD4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BW_3MHz_1RB_high_QPSK_CH_19965 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 5142.891784 | -13.00 | 37.25 | 10000.0 | H | 273.0 | 0.0 | -90.5 |

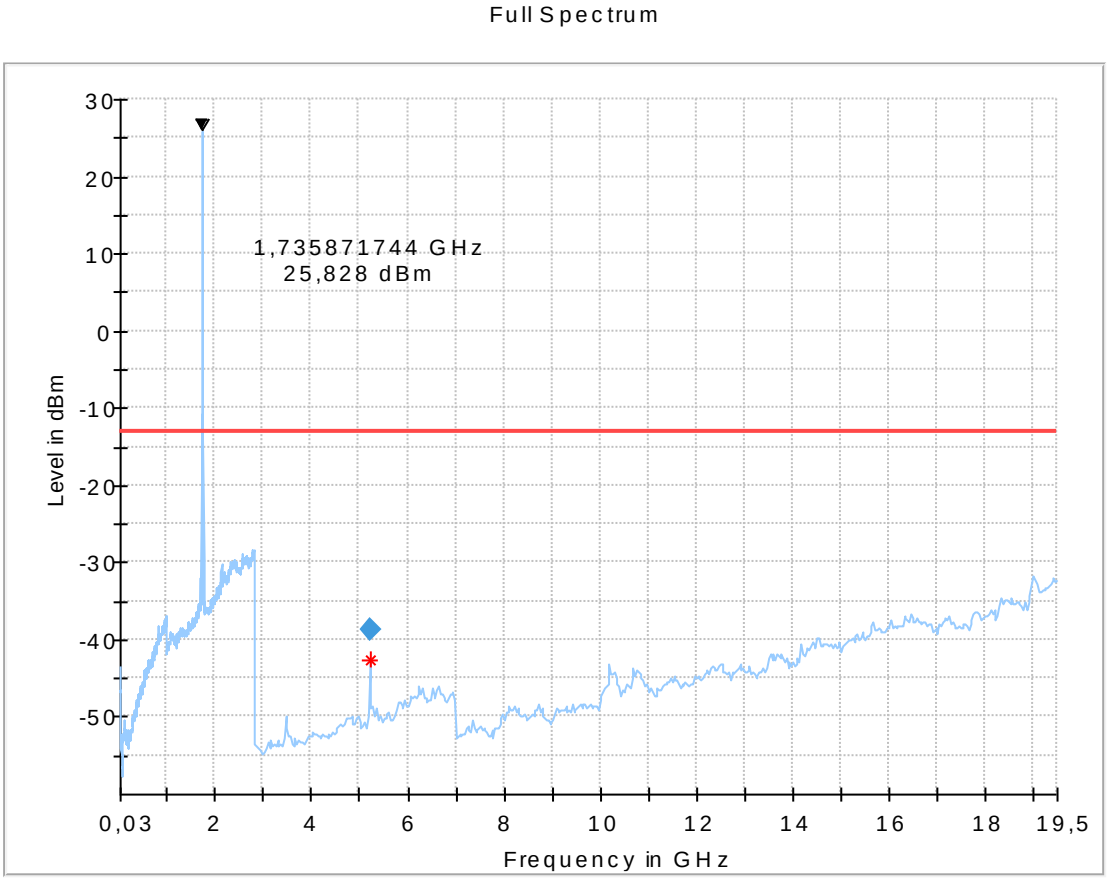
# 8.12_RSE_R_Ch20175_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDD4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BW_10MHz_1RB_high_QPSK_CH_20175 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 5210.603207 | -13.00 | 25.69 | 10000.0 | V | 268.0 | 0.0 | -89.1 |

# 8.13_RSE_R_Ch20300_BW_20

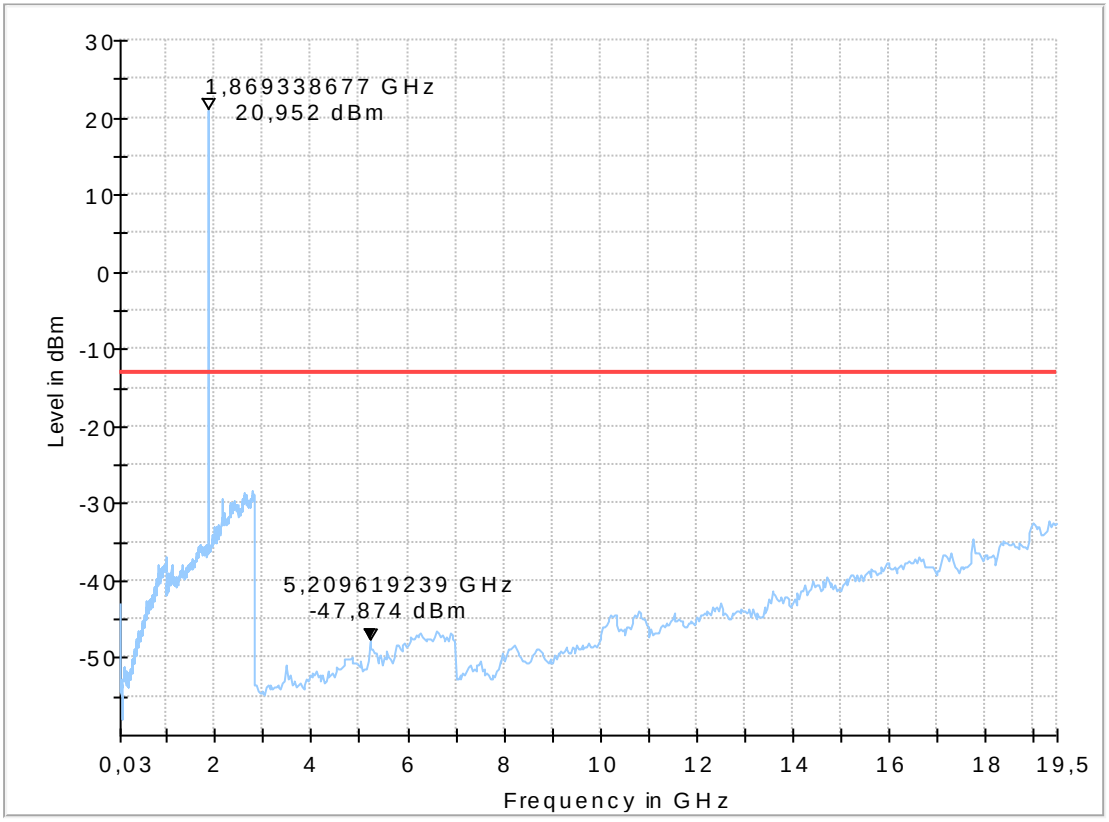
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDD4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | 20MHz_1RB low_QPSK_Ch_20300 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



## 1.5. Spurious emissions radiated (LTE Band 5)

### 1.5.1. Magnetic field strength radiated (LTE Band 5)

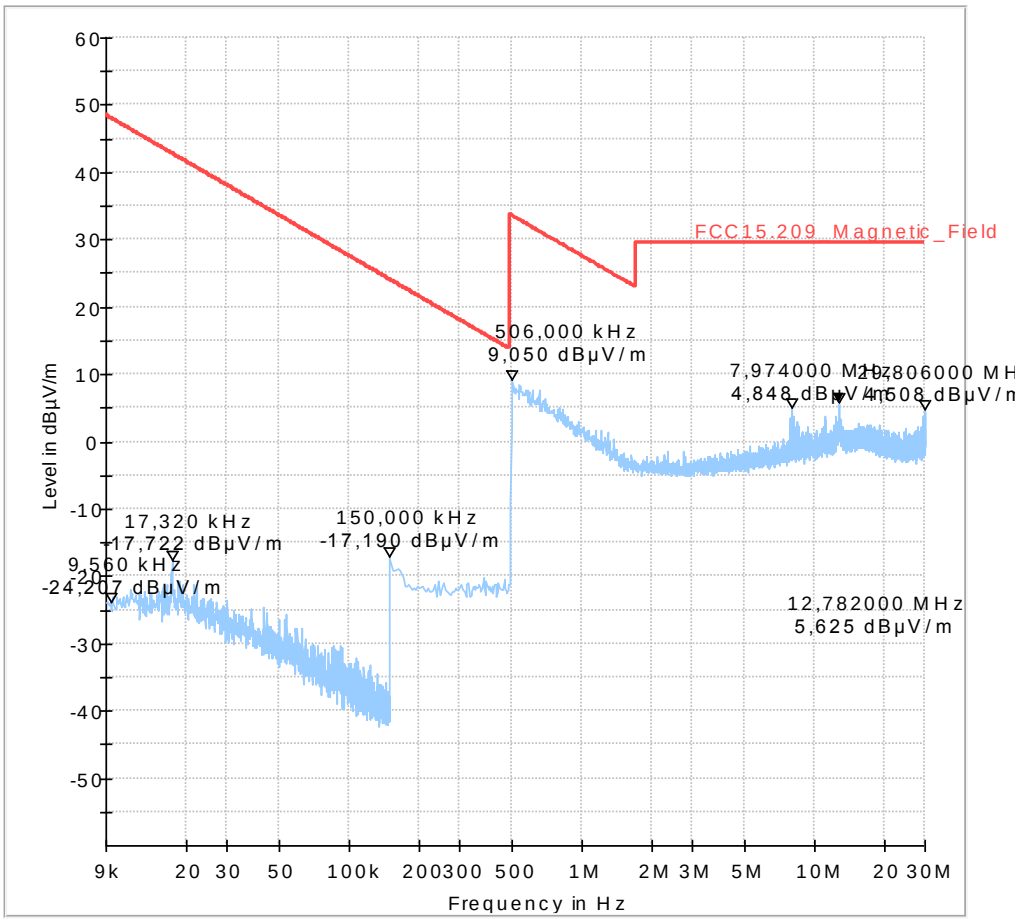
# 2.21_RSE_R_Ch20425_BW_5

### Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_5MHz_1RB_high_QPSK_CH_20425 |
| Operator | SLo |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

### EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



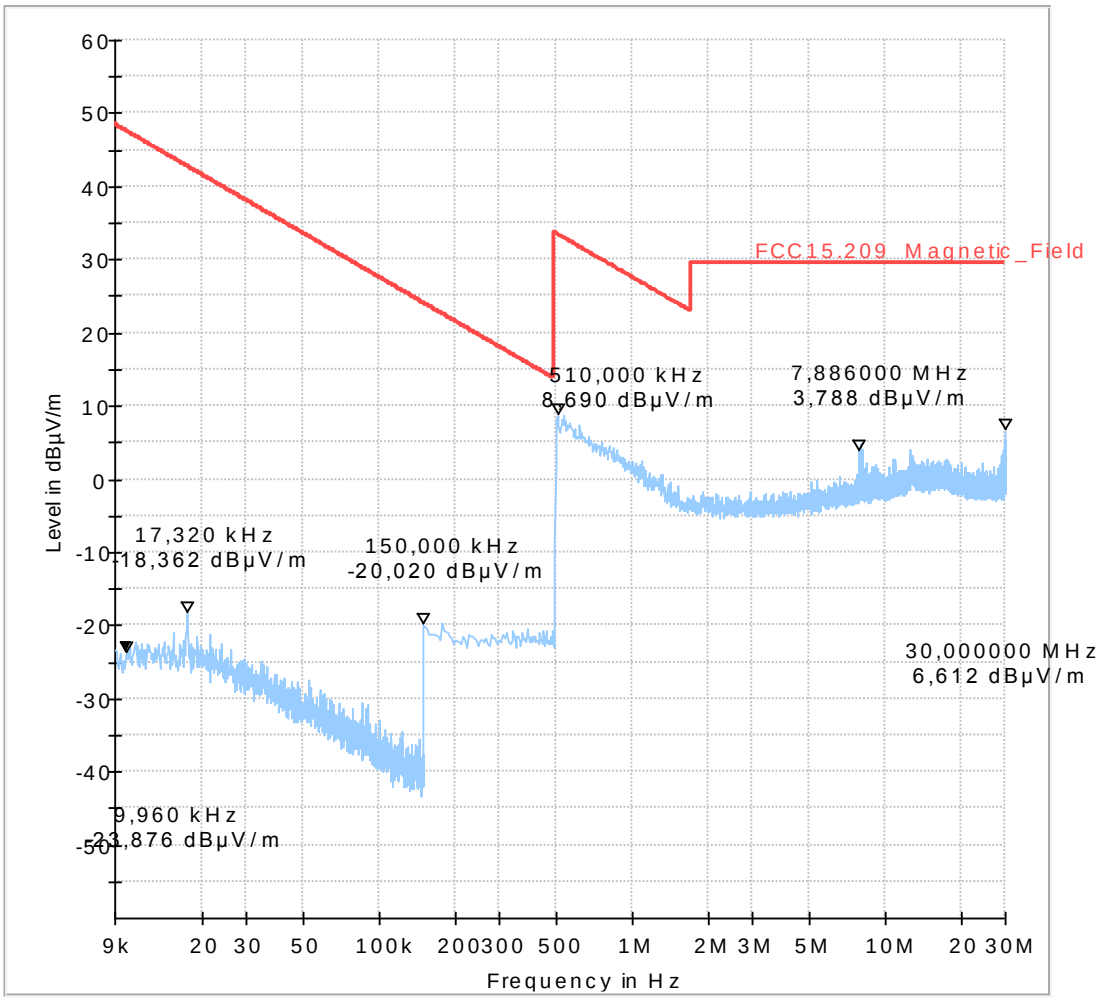
# 2.22_RSE_R_Ch20525_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_10MHz_1RB_low_QPSK_CH_20525 |
| Operator | SLo |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24 V DC |



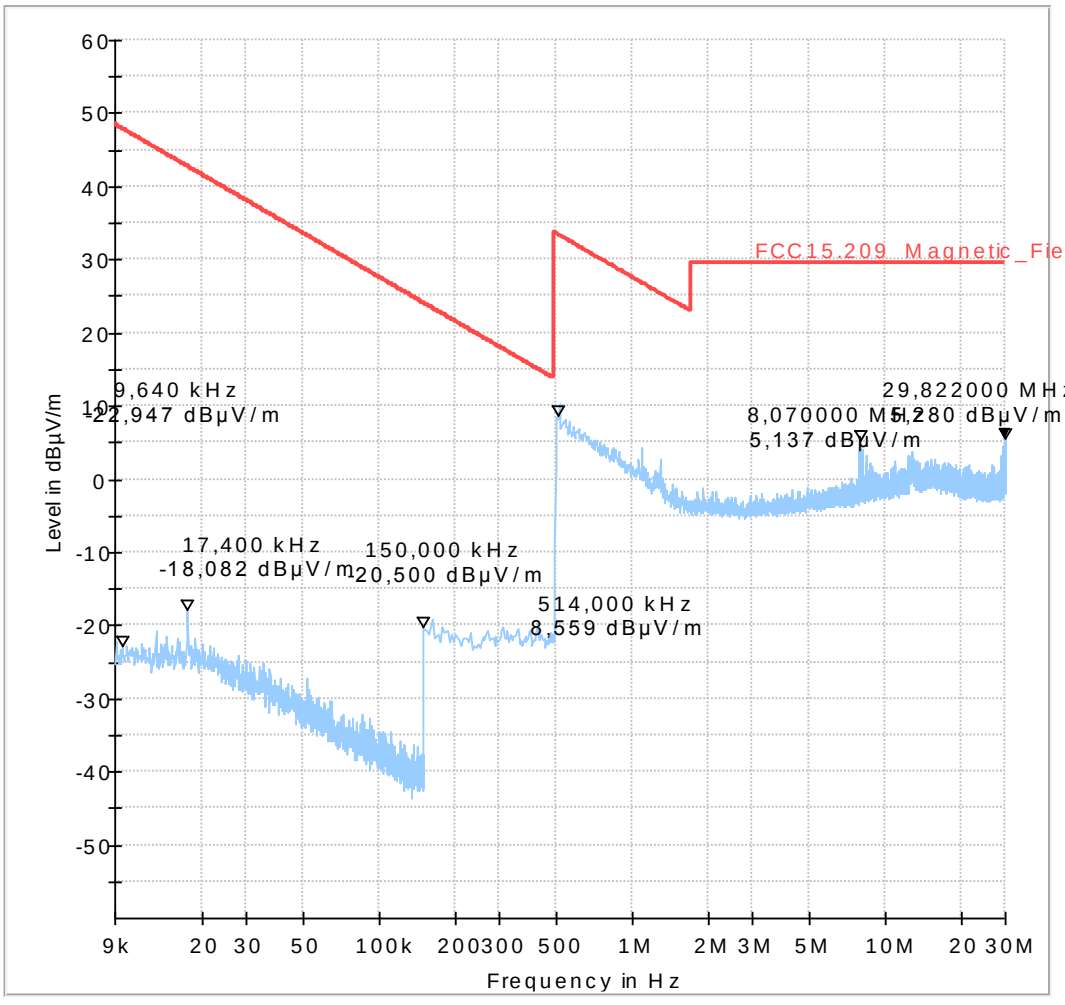
# 2.23_RSE_R_Ch20643_BW_5

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_5MHz_1RB_high_QPSK_CH_20643 |
| Operator | SLo |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



### 1.5.2. Emissions above 30MHz (LTE Band 5)

# 8.21_RSE_R_Ch20425_BW_5

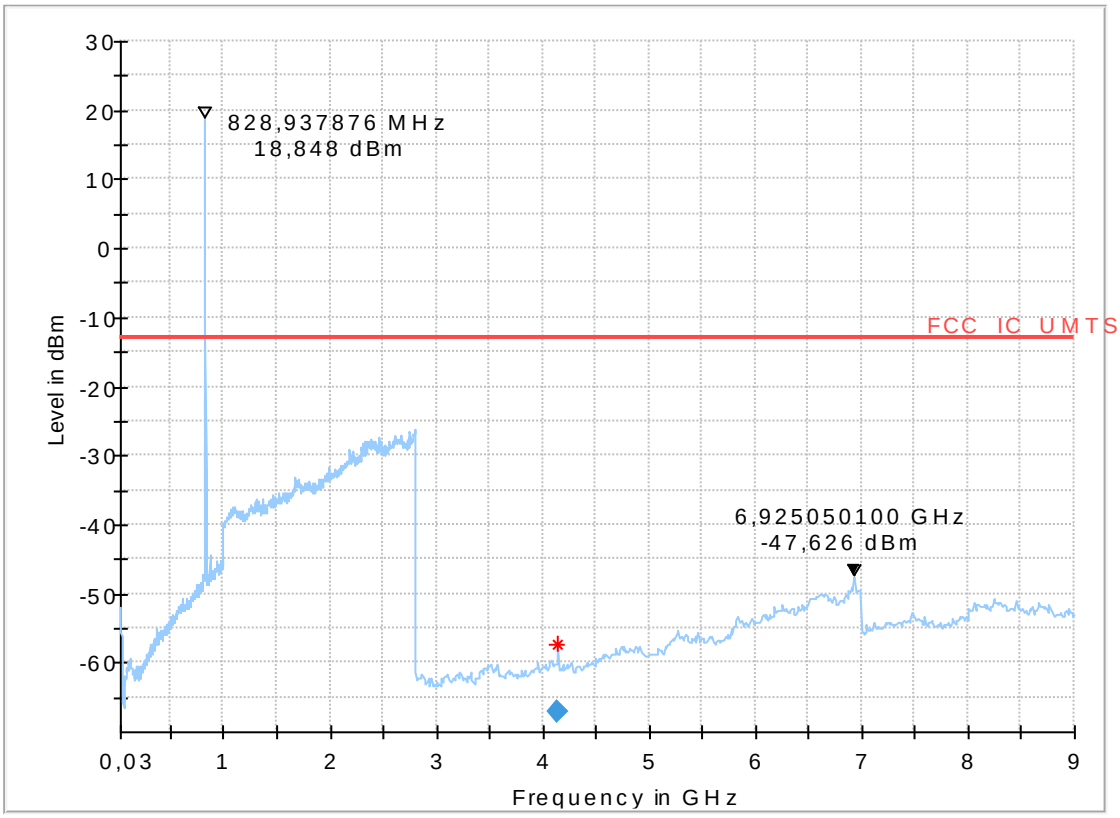
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTEF DD 5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | 5MHz_1high_QPSK_Ch_20425 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 4143.336674 | -67.13 | - | 54.13 | 1000.0 | 100.000 | H | 156.0 | 0.0 | -93.4 |

# 8.22_RSE_R_Ch20525_BW_10

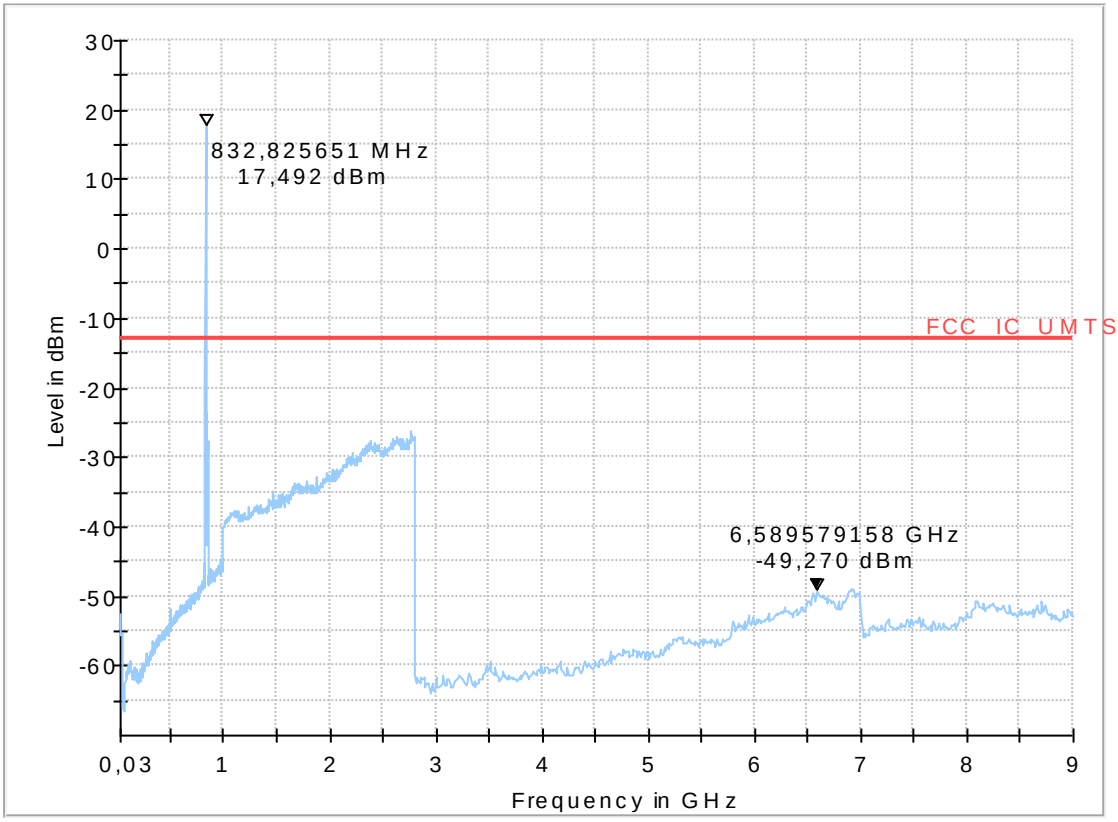
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDD 5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | 10MHz_1low_QPSK_Ch_20525 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 8.23_RSE_R_Ch20643_BW_5

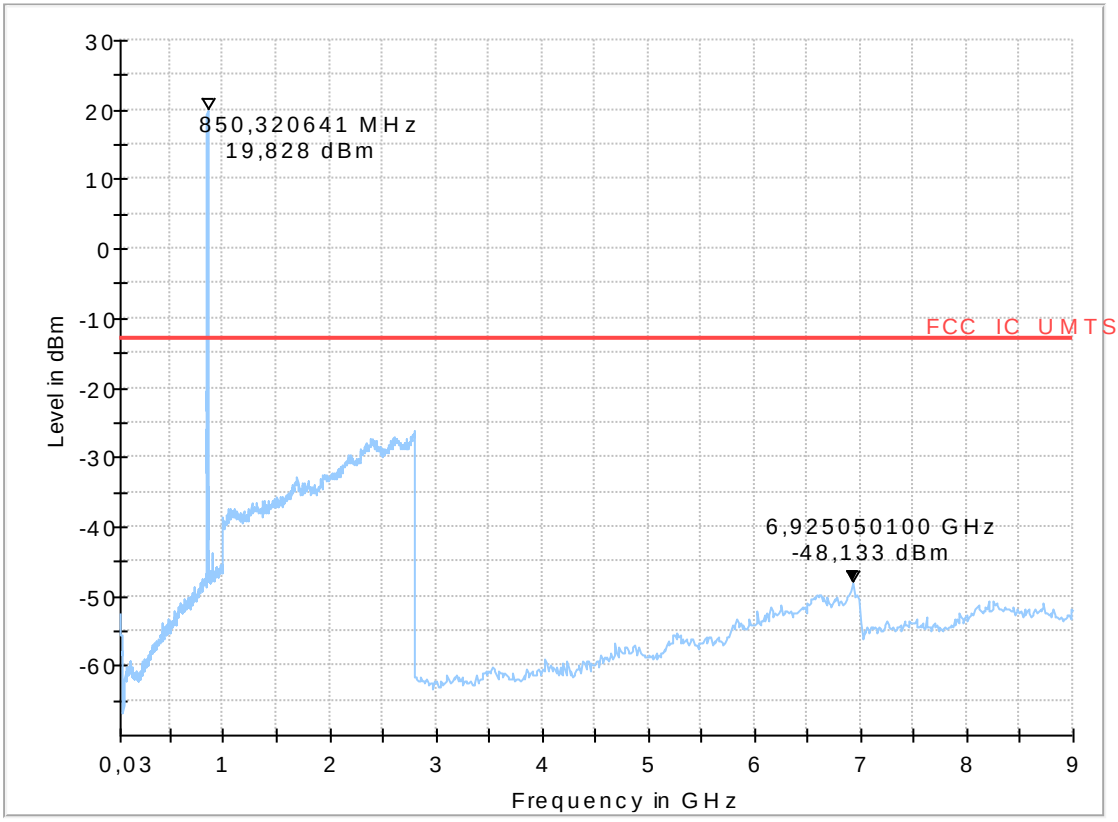
## Common Information

| | |
|---|---|
| Test Description: | Radiated Spurious Emissions LTE FDD 5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22.917(a) |
| Operating Mode: | 5MHz_1high_QPSK_Ch_20625 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



## 1.6. Spurious emissions radiated (LTE Band 7)

### 1.6.1. Magnetic field strength radiated (LTE Band 7)

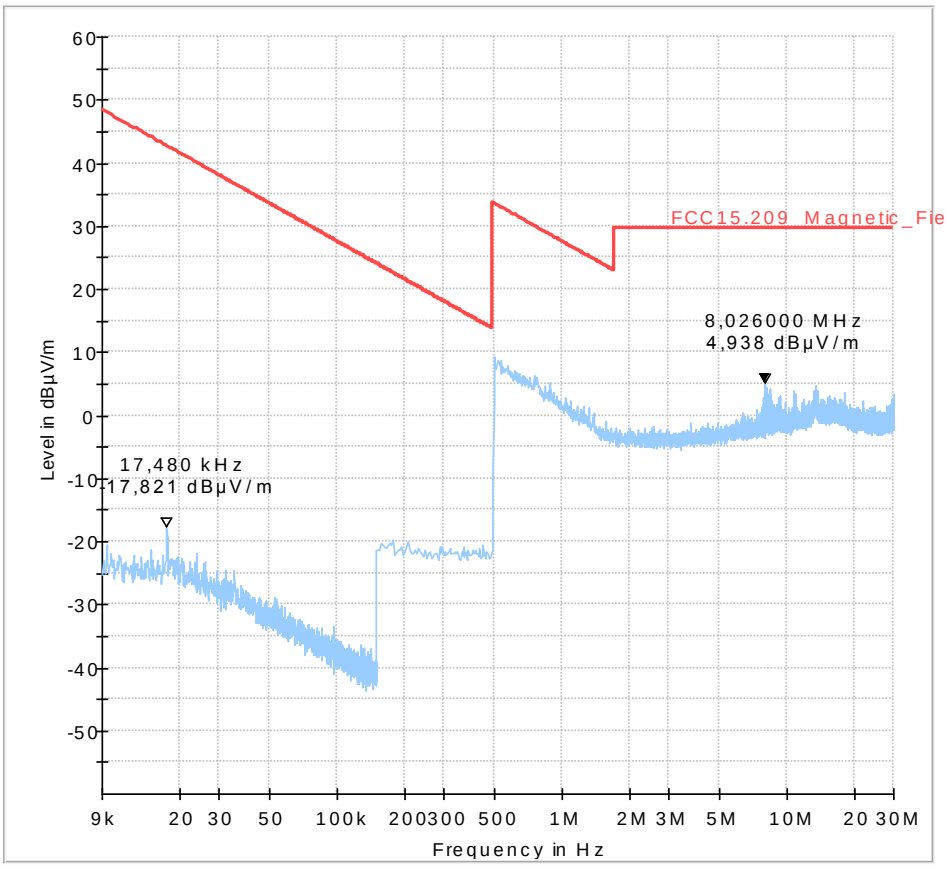
# Diagram No. 2.31_RSE_R_Ch20850_BW_20

**Common Information**

| | |
|---|---|
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V9.25.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operator: | RIs |
| Operating conditions: | BW20MHz_RB1high_QPSK_Ch20850 |
| Power during tests: | 24V DC |
| Comment 1: | Channel low |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



# Diagram No. 2.32_RSE_R_Ch21100_BW_15

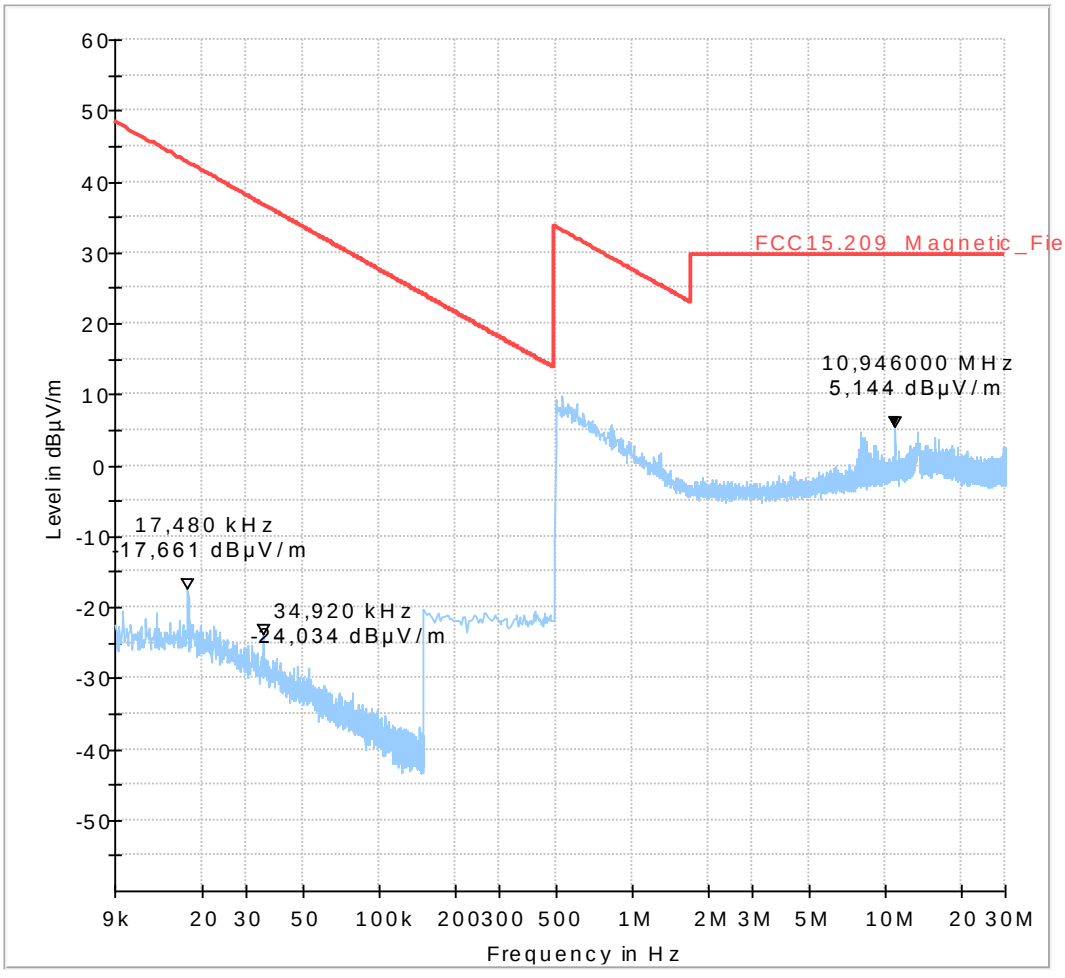
## Common Information

| | |
|---|---|
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V9.25.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operator: | RIs |
| Operating conditions: | BW15MHz_RB1Low_QPSK_Ch21100 |
| Power during tests: | 24V DC |
| Comment 1: | Channel middle |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# Diagram No. 2.33_RSE_R_Ch21425_BW_5

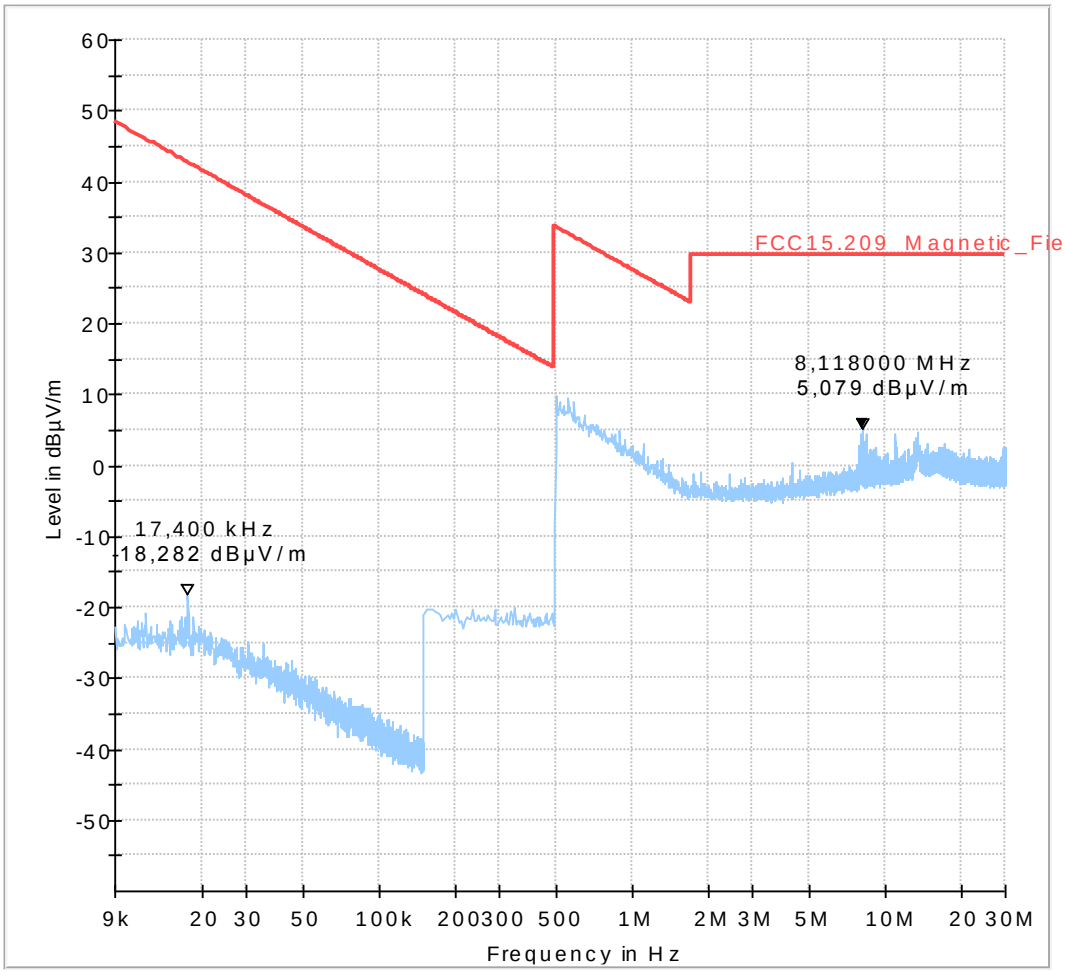
## Common Information

| | |
|---|---|
| Test description: | Magnetic Field Strength Measurement related to 30/300 m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Version of Testsoftware: | EMC32 V9.25.0 |
| Distance correction: | used accord. table, pls. see test report |
| Technical Data: | Please see page 2 for detailed data of measurement setup |
| Rec. antenna (pre-scan): | height 1.00 m, parallel and 90° to EUT polarisation |
| Used filter: | bypass |
| Test specification: | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operator: | RIs |
| Operating conditions: | BW5MHz_RB1Low_QPSK_Ch21425 |
| Power during tests: | 24V DC |
| Comment 1: | Channel high |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



### 1.6.2. Emissions 30MHz - 2.8GHz (LTE Band 7)

# 8.31_RSE_R_Ch20850_BW_20

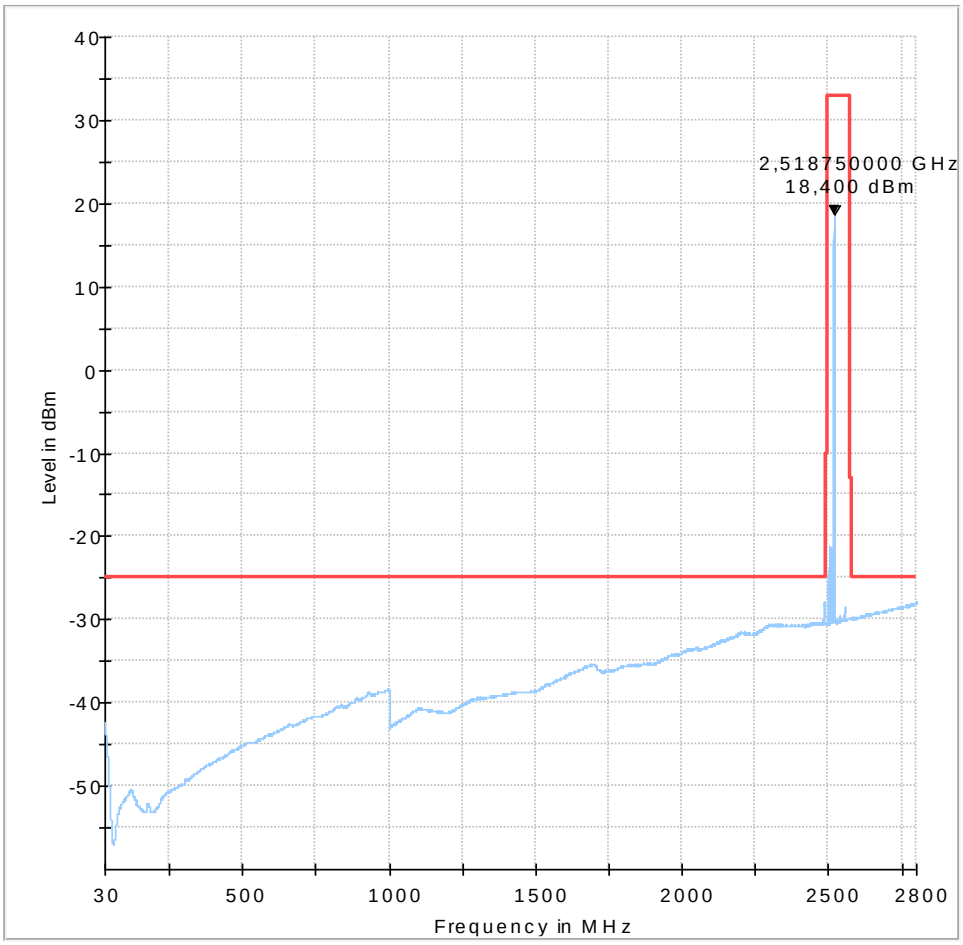
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 20850/ BW:20MHz / RB:1 / Position: high |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | SRa |
| Remarks: | |

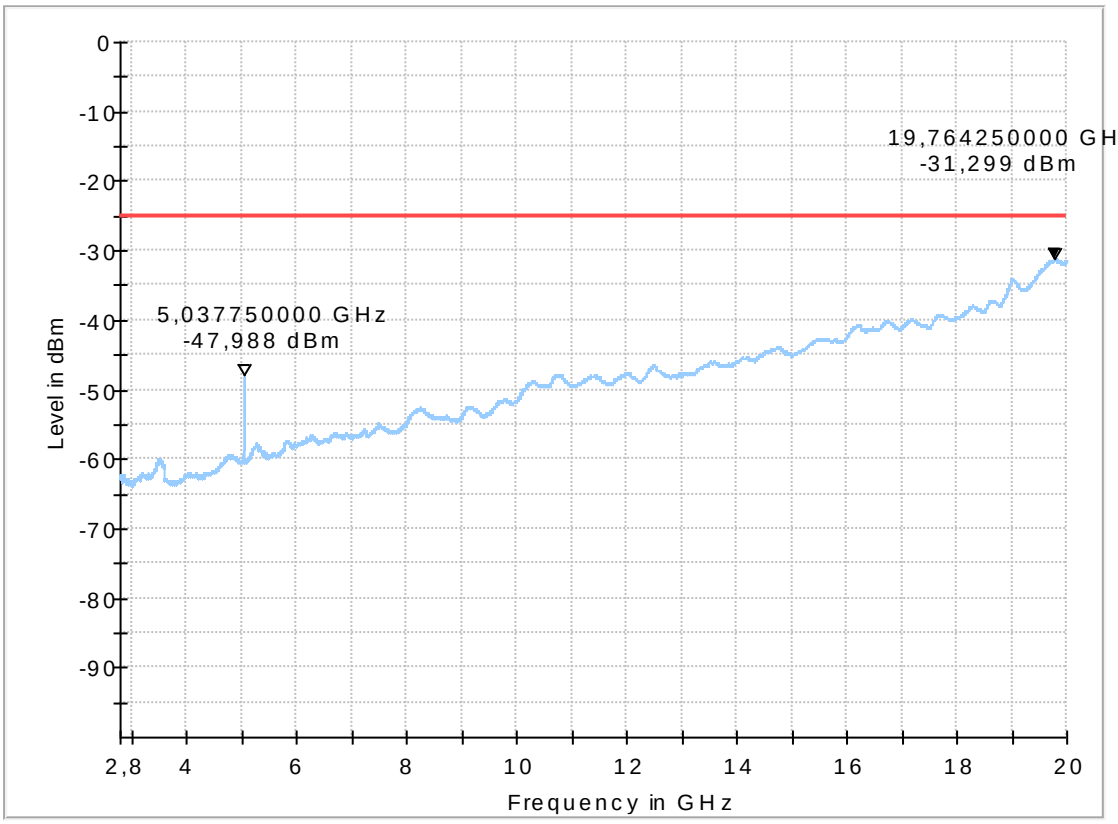
## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



Full Spectrum



# 8.32_RSE_R_Ch21100_BW_15

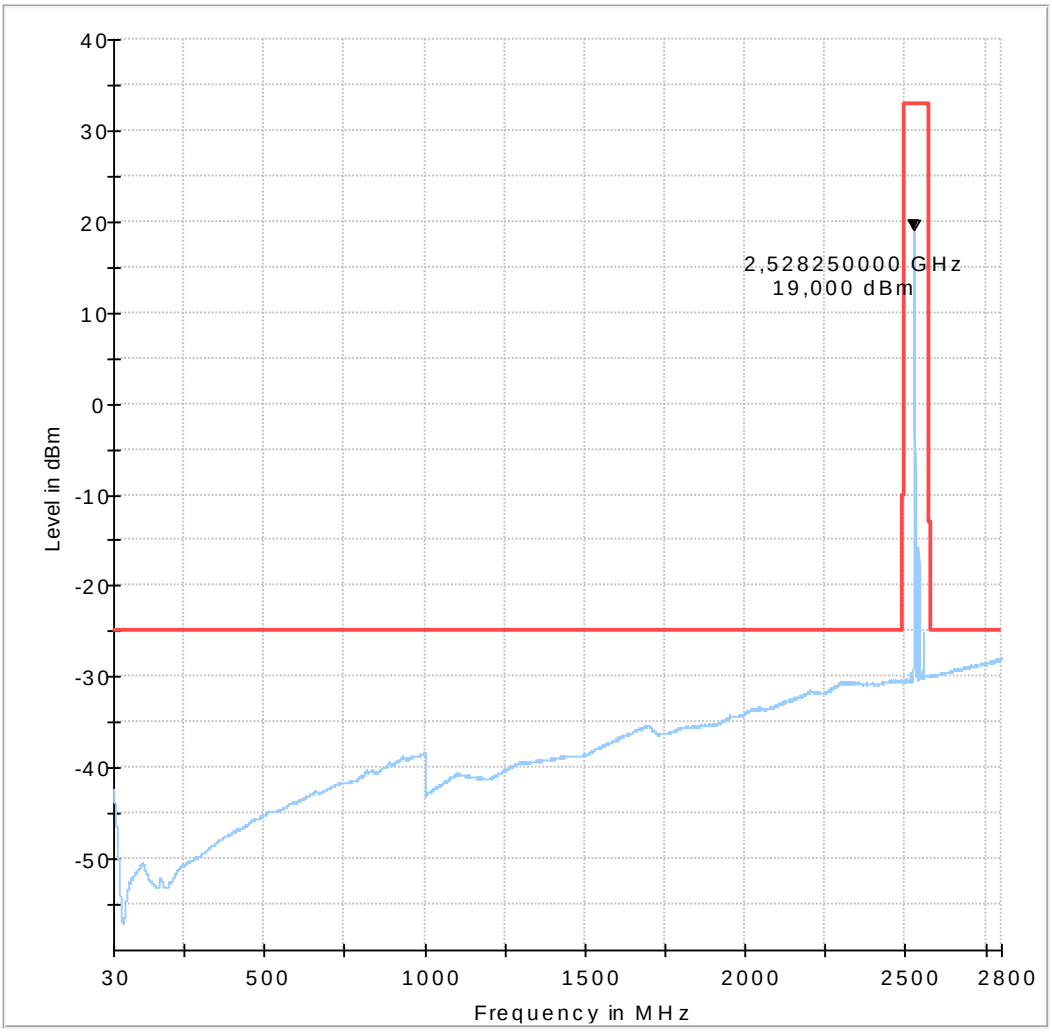
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21100/ BW:15MHz / RB:1 / Position: low |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | SRa |
| Remarks: | |

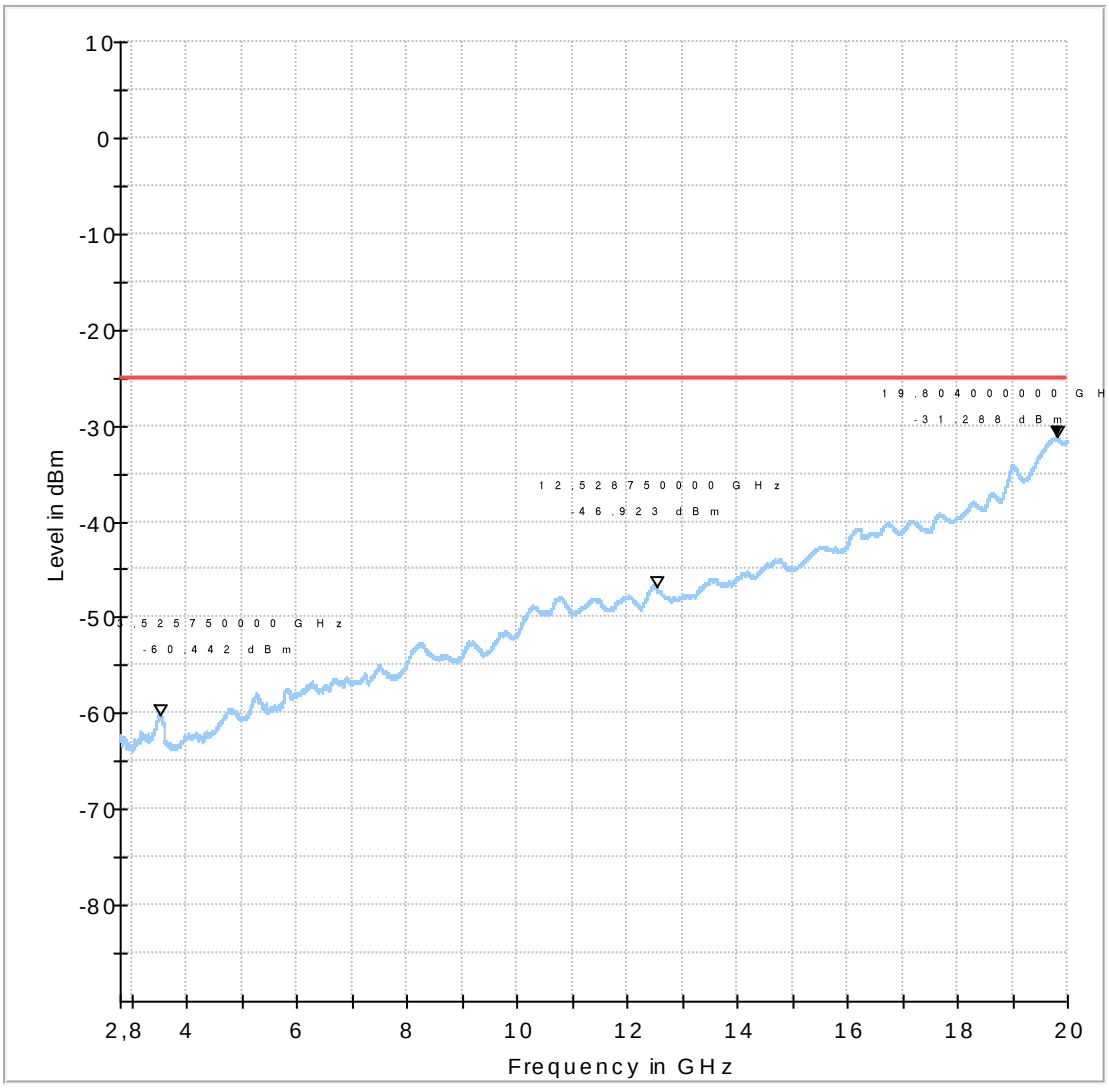
## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



Full Spectrum



# 8.33_RSE_R_Ch21425_BW_5

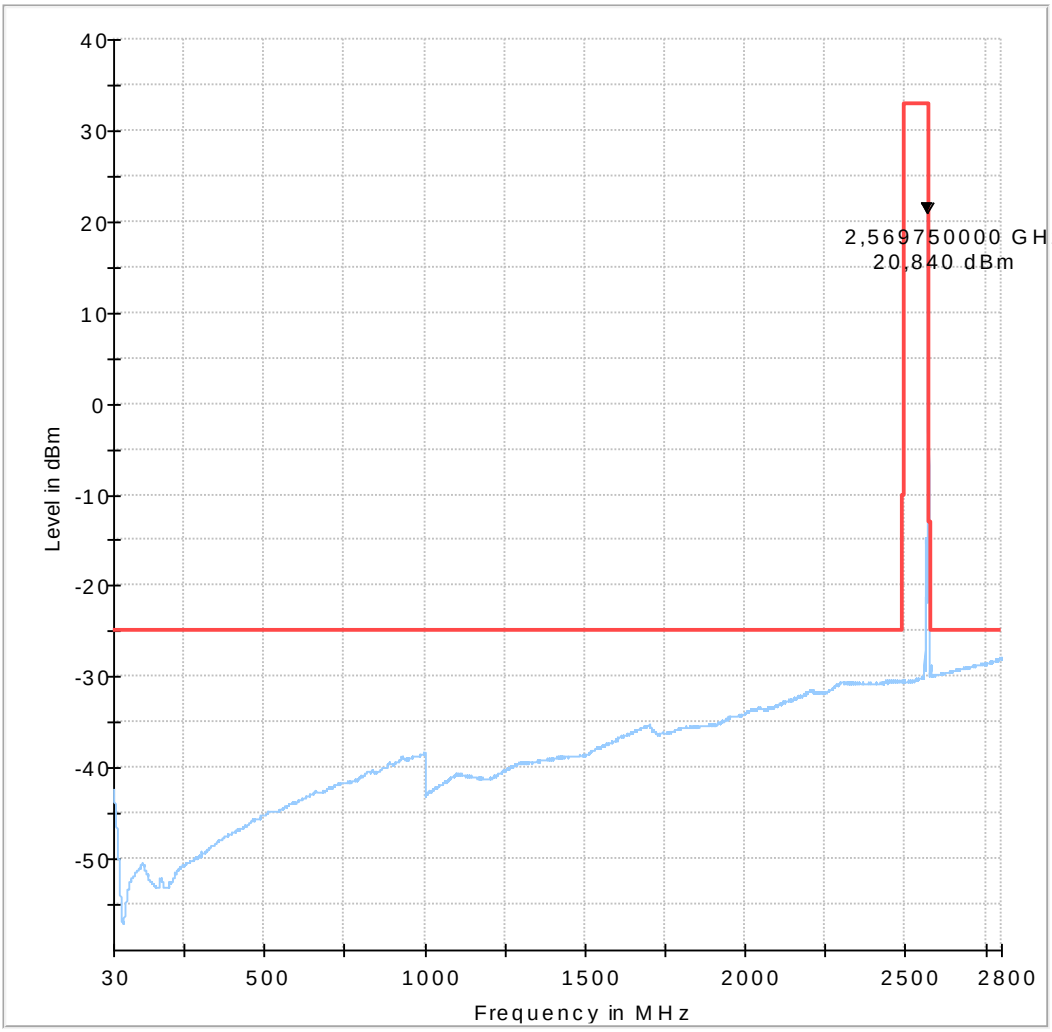
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21425/ BW:5MHz / RB:1 / Position: high |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | SRa |
| Remarks: | EUT - laying+standing position |

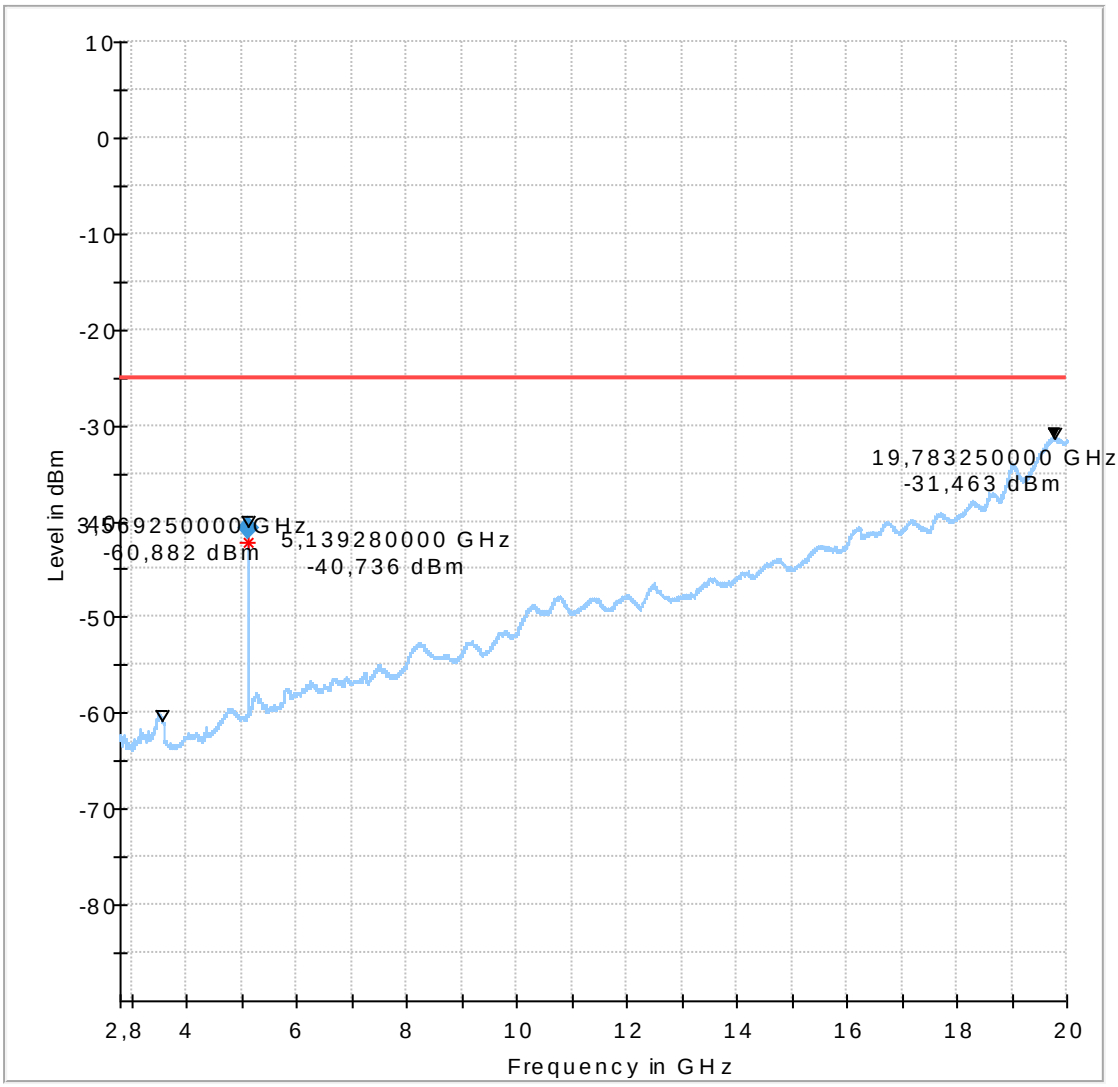
## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



Full Spectrum



## 1.7. Spurious emissions radiated (LTE Band 17)

### 1.7.1. Magnetic field strength radiated (LTE Band 17)

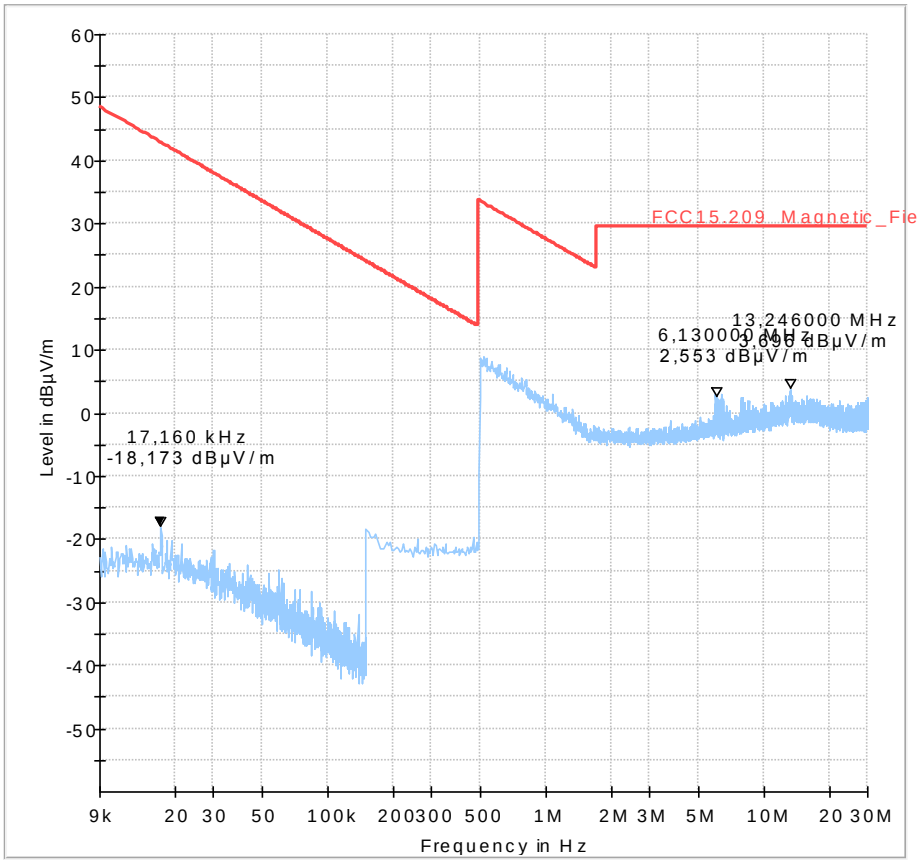
# 2.41_RSE_R_Ch23035_BW_5

### Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_5MHz_RB_HIGH_QPSK_CH_23035 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

### EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



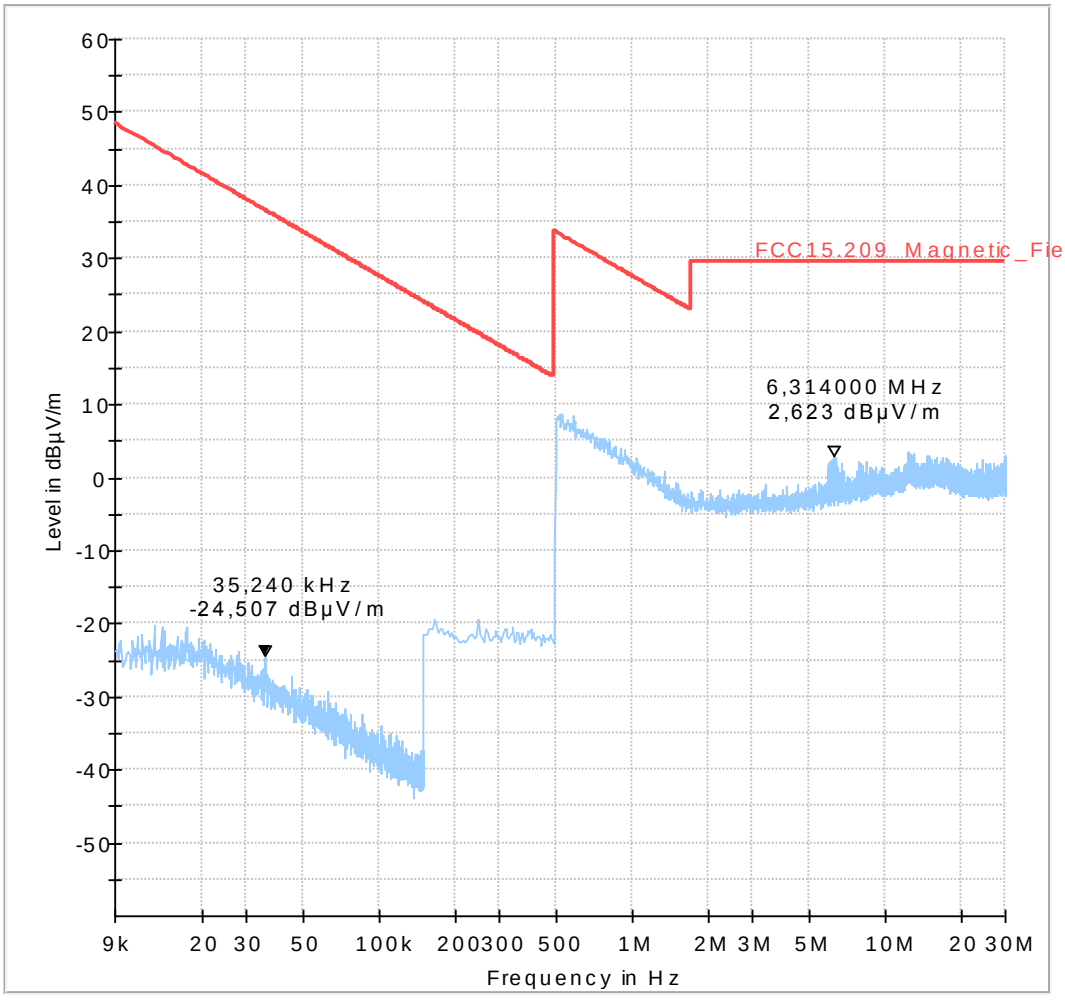
# 2.42_RSE_R_Ch23790_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_10MHz_RB_LOW_QPSK_CH_23790 |
| Operator | DLe |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



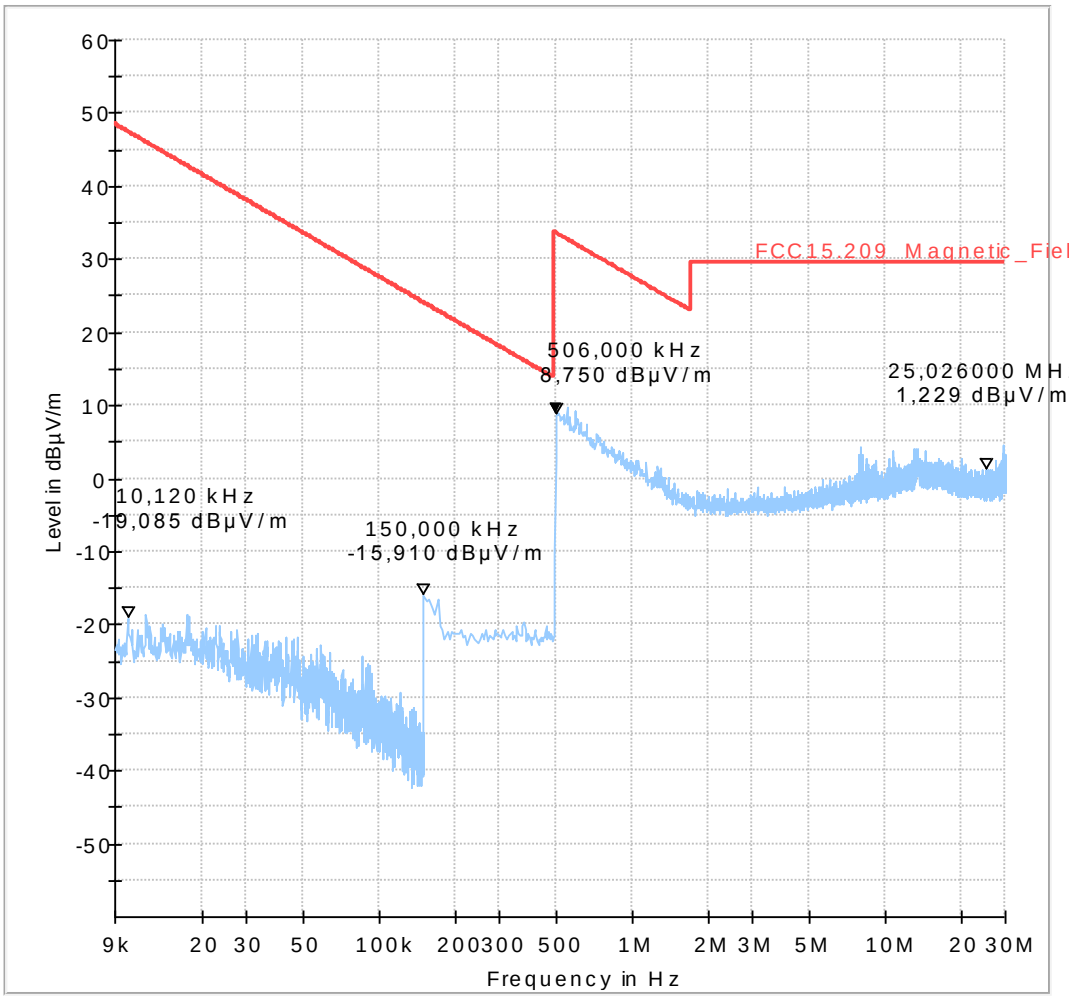
# 2.43_RSE_R_Ch23800_BW_10

## Common Information

| | |
|---|---|
| Test Description: | Magnetic Field Strength Measurement related to 30/300m distance |
| Test site and distance: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3m measurement distance |
| Version of Testsoftware | EMC32 V9.25.0 |
| Distance Correction | used accord. table, pls. see test report |
| Technical Data | Please see page 2 for detailed data of measurement setup |
| REc. antenna (pre-scan) | height 1.00 m, parallel and 90° to EUT polarisation |
| Used Filter | bypass |
| Test specification | FCC 15.205 § 15.209; RSS-Gen: Issue 4 |
| Operating Mode | BW_10MHz_1RB_high_QPSK_CH_23800 |
| Operator | SLo |
| Operating Conditions | Humidity: 35%rH; Temperature: 20°C |
| Power during Test | 24V DC |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



## 1.8. Radiated emissions – band-edge (LTE Band 2)

### 1.8.1. Low band-edge

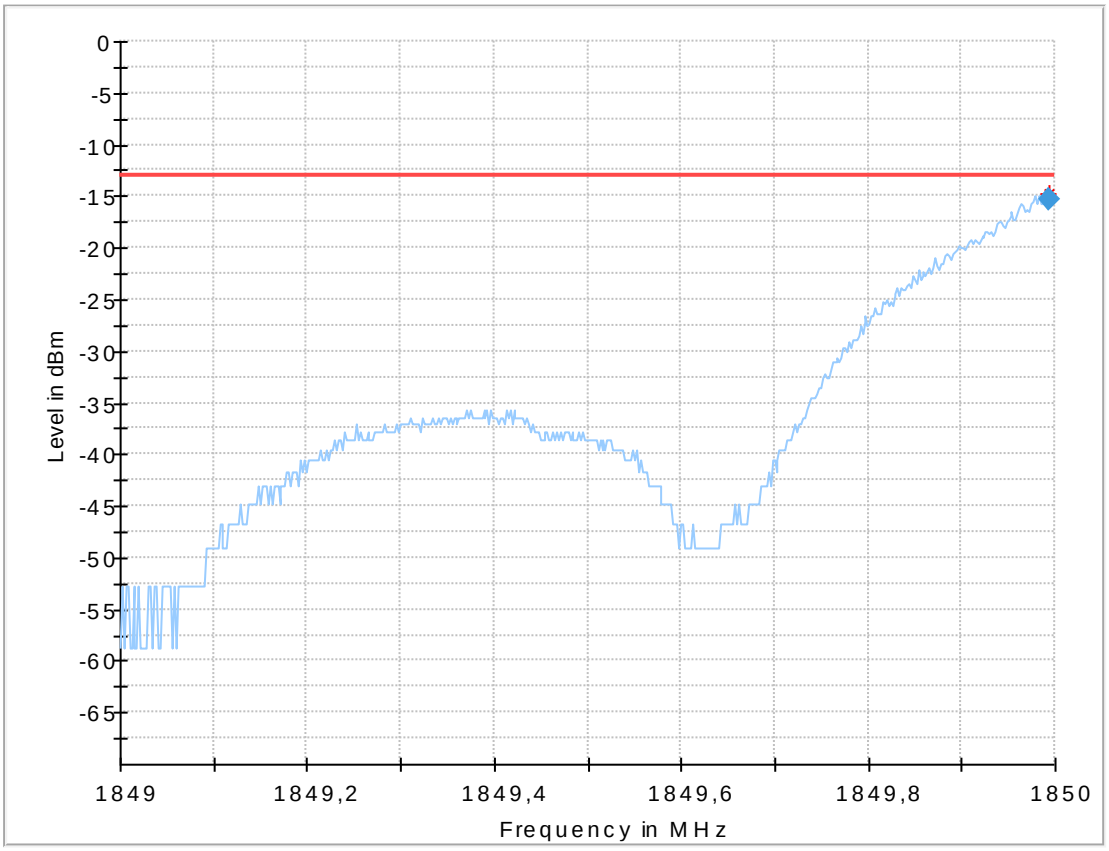
# 9.01_BE_LTE2_low

**Common Information**

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC 030417 |
| Operating Mode: | BE 1.4MHz \| 1Rb low \| Modulation QPSK \| Ch 18607 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




**Final_Result**

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1849.993988 | -15.28 | -13.00 | 2.28 | 2000.0 | 20.000 | V | 282.0 | 90.0 | -63.1 |

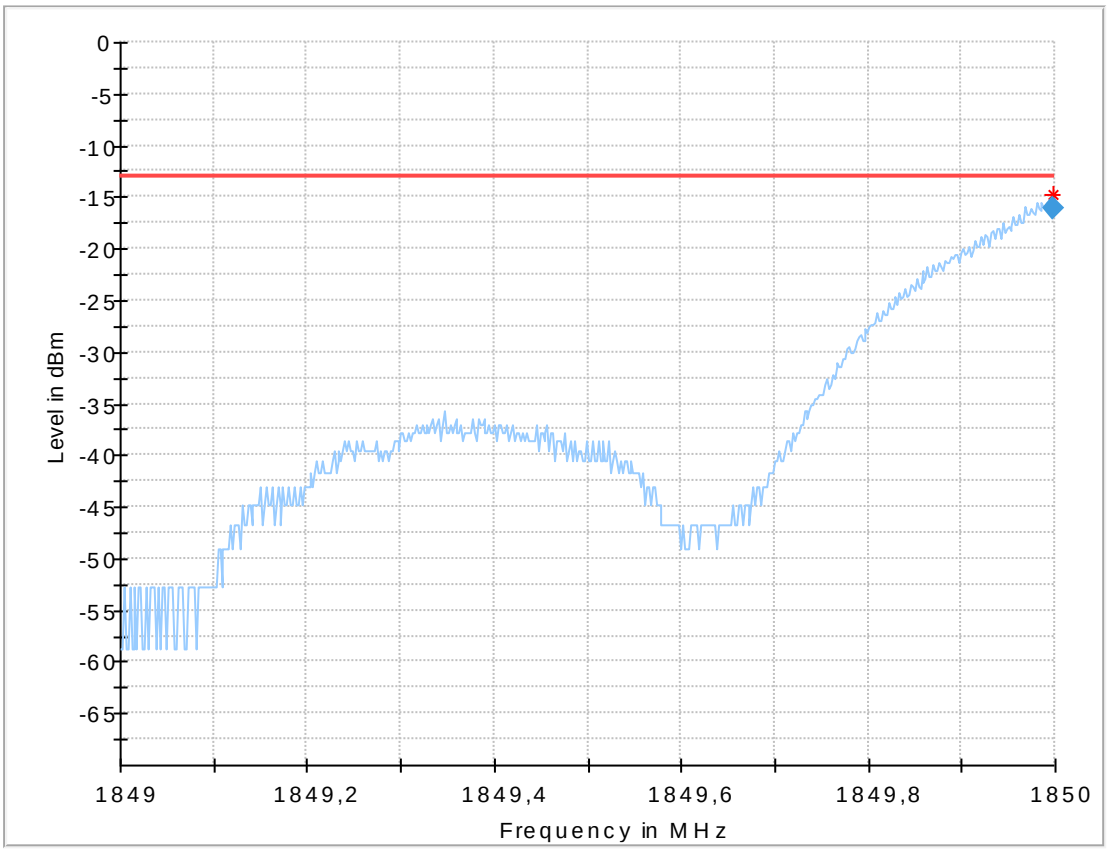
# 9.02_BE_LTE2_low_Ch18607_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 1.4MHz \| 1RB low \| Modulation QAM \| CH 18607 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1849.997996 | -16.14 | -13.00 | 3.14 | 2000.0 | 20.000 | H | 269.0 | 0.0 | -63.1 |

# 9.05_BE_LTE2_low_Ch18650_QAM

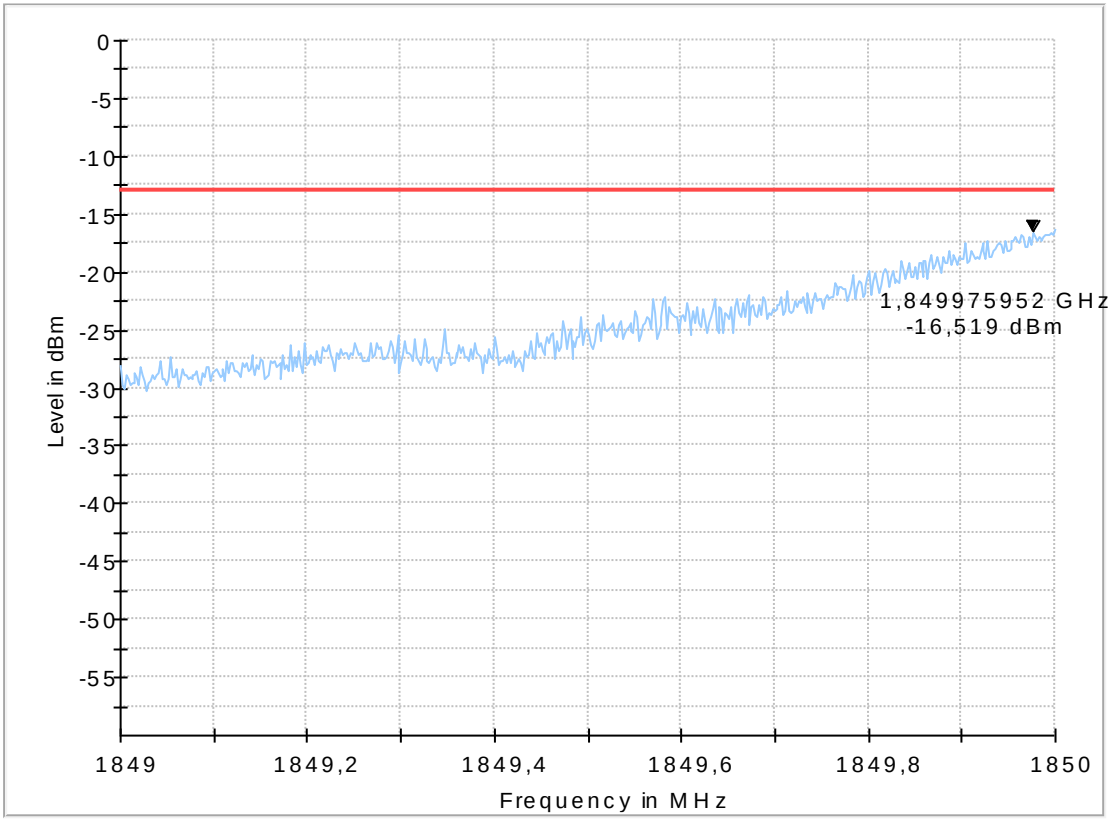
## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 10 MHz / 50 RB low / Modulation QAM / CH 18650 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



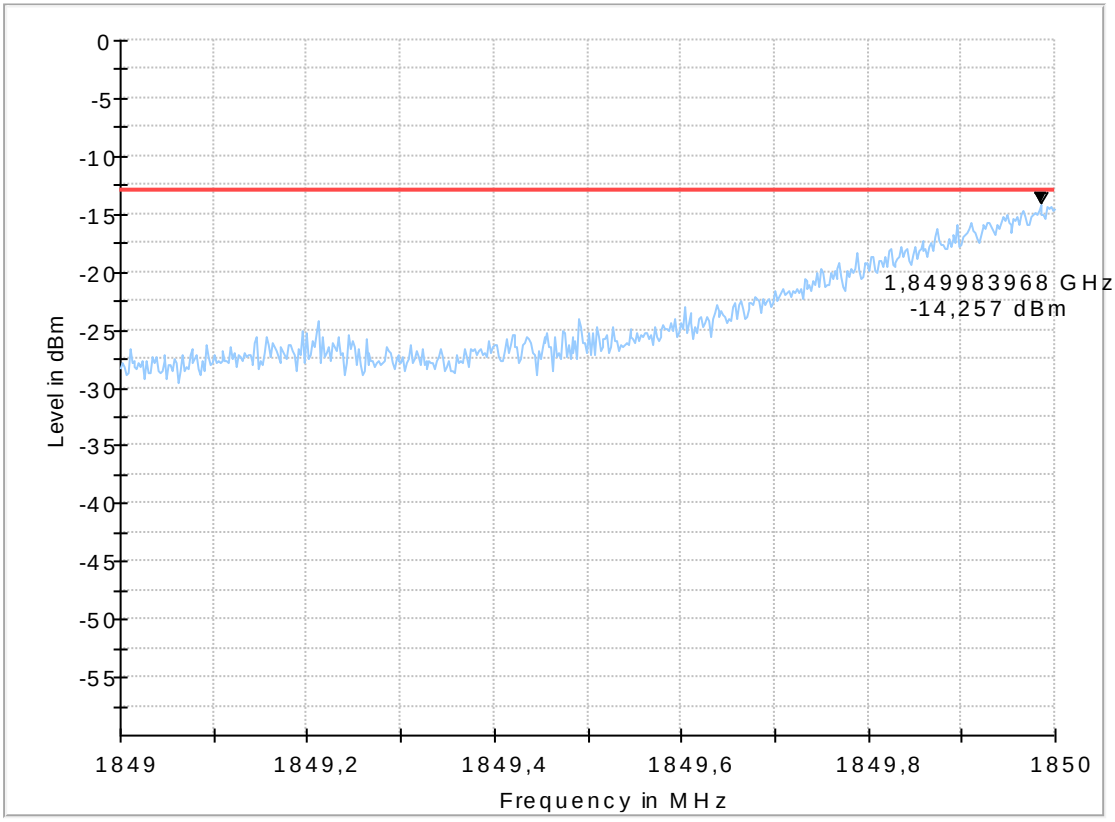
# 9.06_BE_LTE2_low_Ch18650_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 10 MHz / 50 RB low / Modulation QPSK / CH 18650 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



### 1.8.2. High band-edge

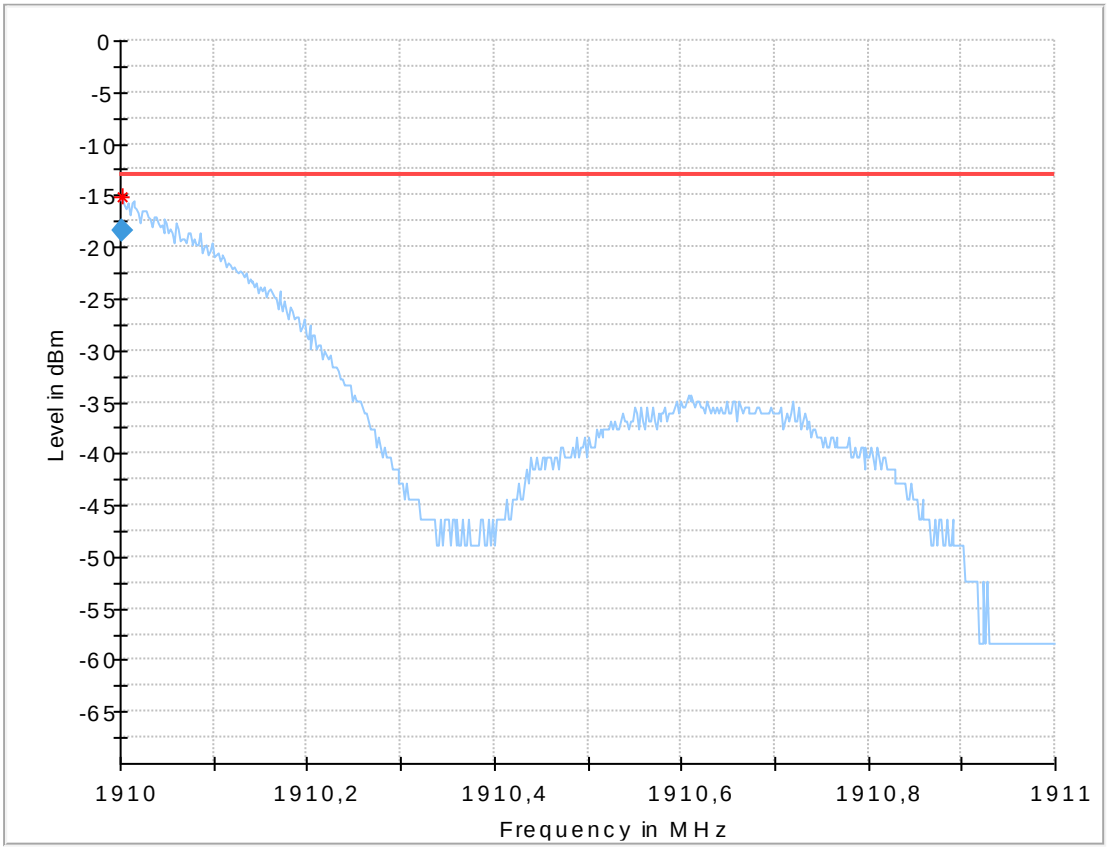
# 9.03_BE_LTE2_high_Ch19175_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 1,4 MHz / 1RB high / Modulation QAM / CH 19175 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 1910.002004 | -18.41 | -13.00 | 5.41 | 2000.0 | 20.000 | H | 276.0 | 0.0 | -62.8 |

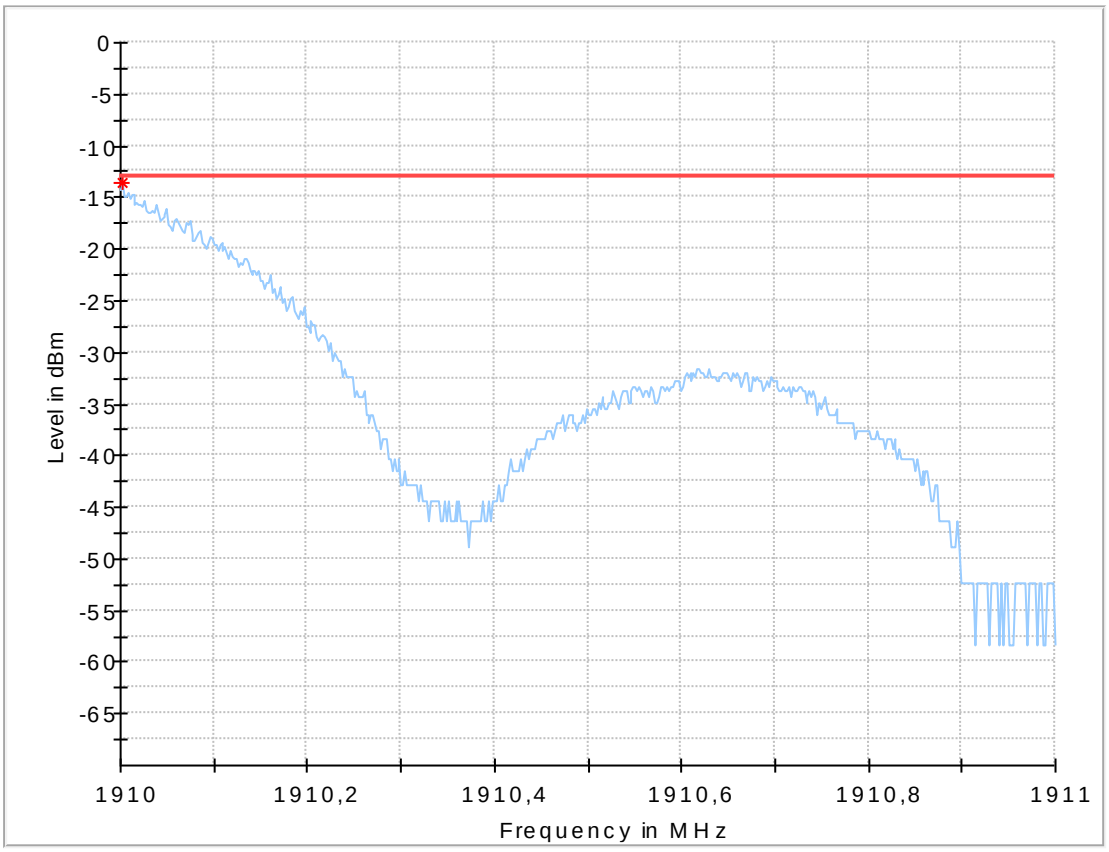
# 9.04_BE_LTE2_high_Ch19175_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 1,4 MHz / 1RB high / Modulation QPSK / CH 19175 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



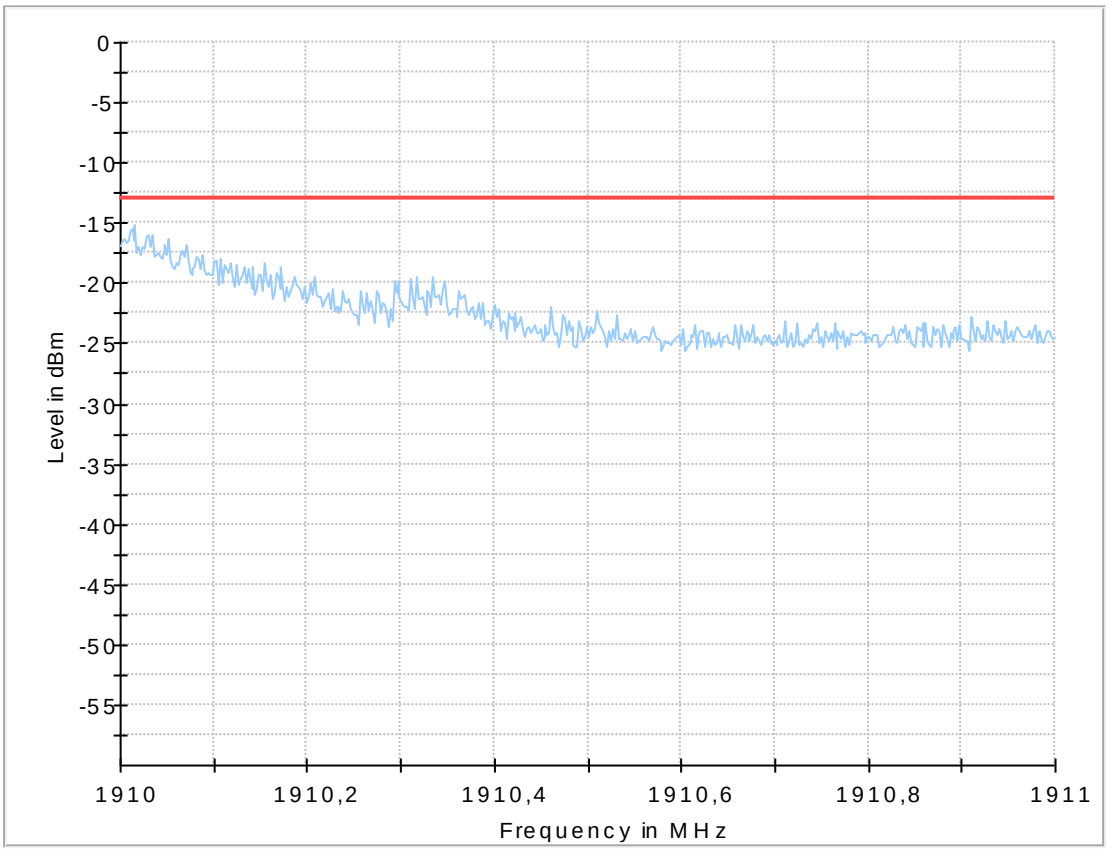
# 9.07_BE_LTE2_high_Ch19150_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 10 MHz / 50RB / Modulation QAM / CH 19150 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



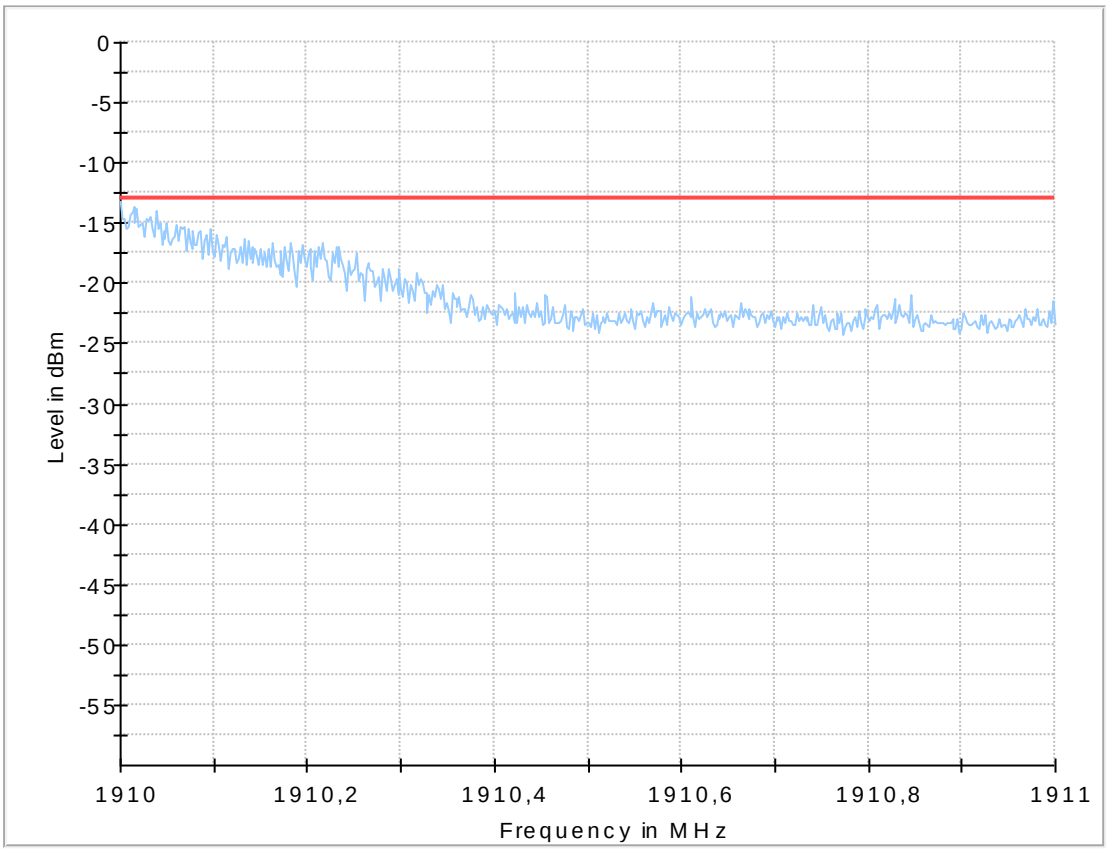
# 9.08_BE_LTE2_high_Ch19150_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE 10 MHz / 50RB / Modulation QPSK / CH 19150 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | SRa/TFra |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



## 1.9. Radiated emissions – band-edge (LTE Band 4)

### 1.9.1. Low Band-Edge

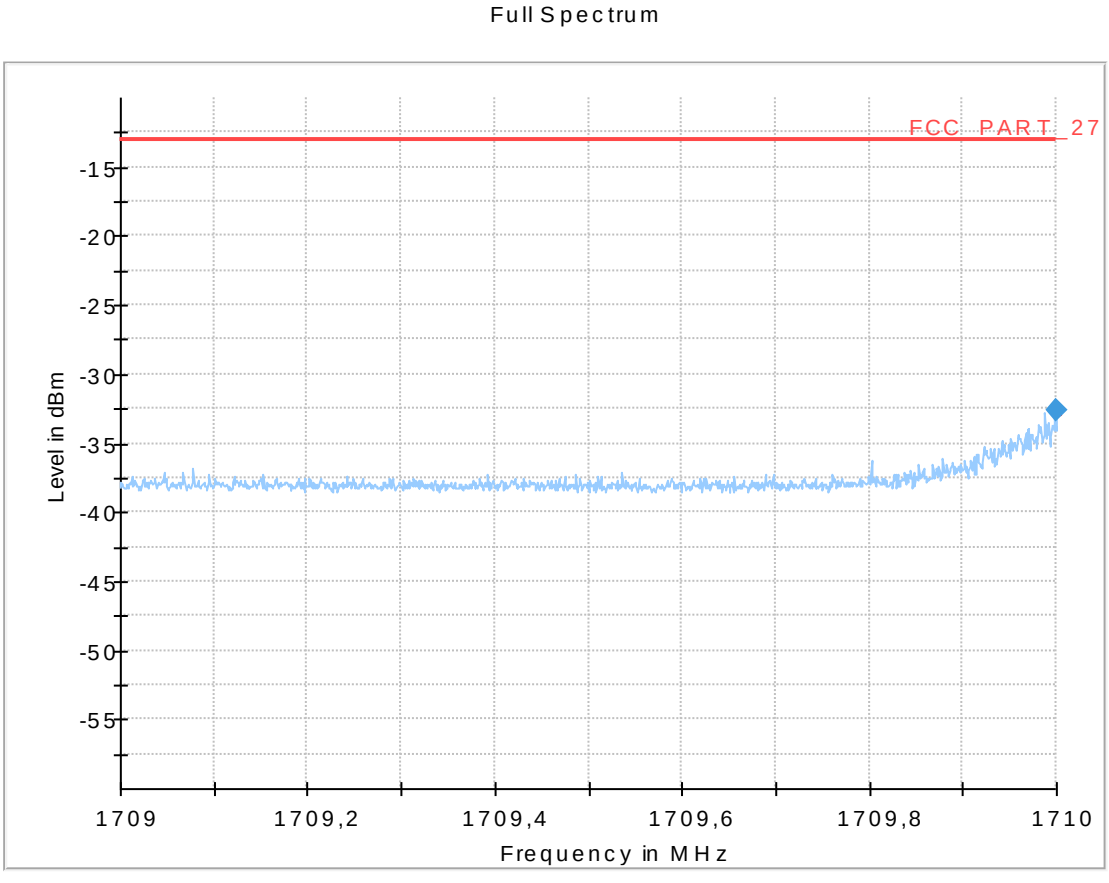
# 9.10_BE_LTE4_1RB_Low_CH19965_QPSK

**Common Information**

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | Continuous TX, BW 3MHz, 1RB low, QPSK, CH19965 |
| Environment Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Operator Name: | KIv |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




**Final_Result**

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1710.000000 | -32.60 | -13.00 | 19.60 | 700.0 | 30.000 | 155.0 | H | 328.0 | 0.0 | -63.4 |

# 9.11_BE_LTE4_1RB_Low_CH19965_QAM

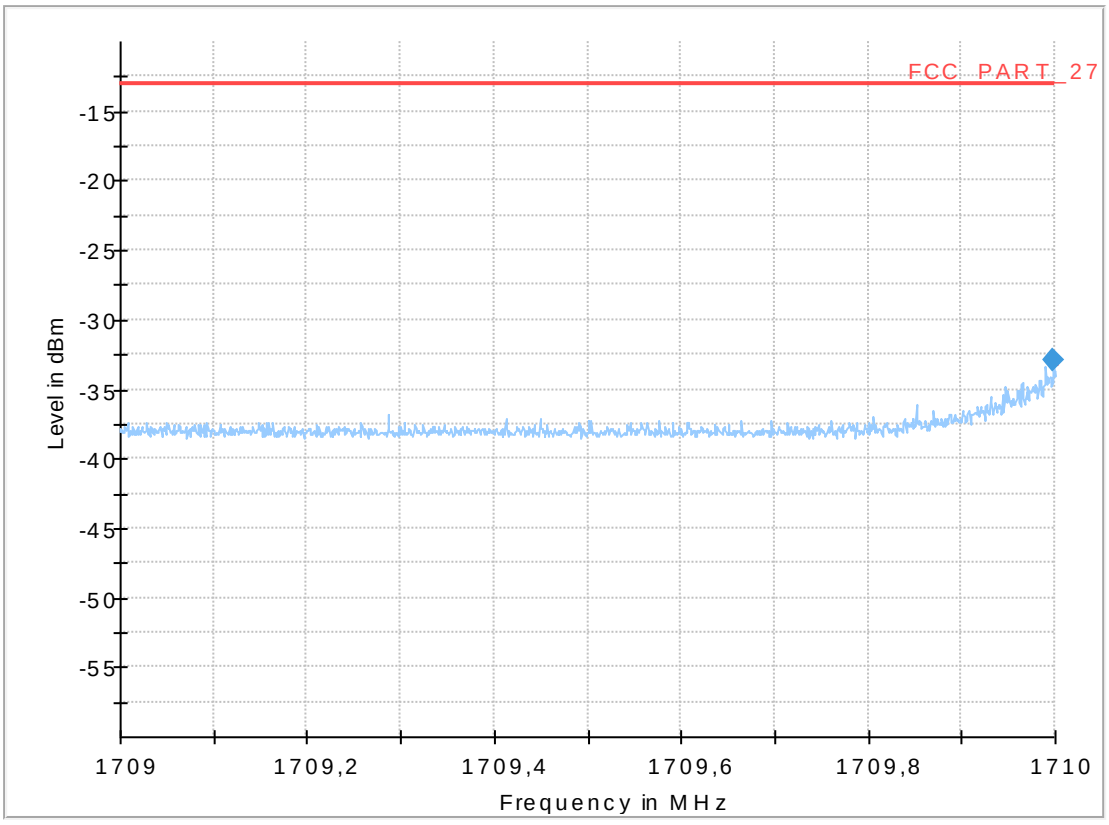
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | Continuous TX, BW 3MHz, 1RB low, QAM, CH19965 |
| Environment Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Operator Name: | KIv |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1709.998000 | -32.91 | -13.00 | 19.91 | 700.0 | 30.000 | 155.0 | H | 331.0 | 0.0 | -63.3 |

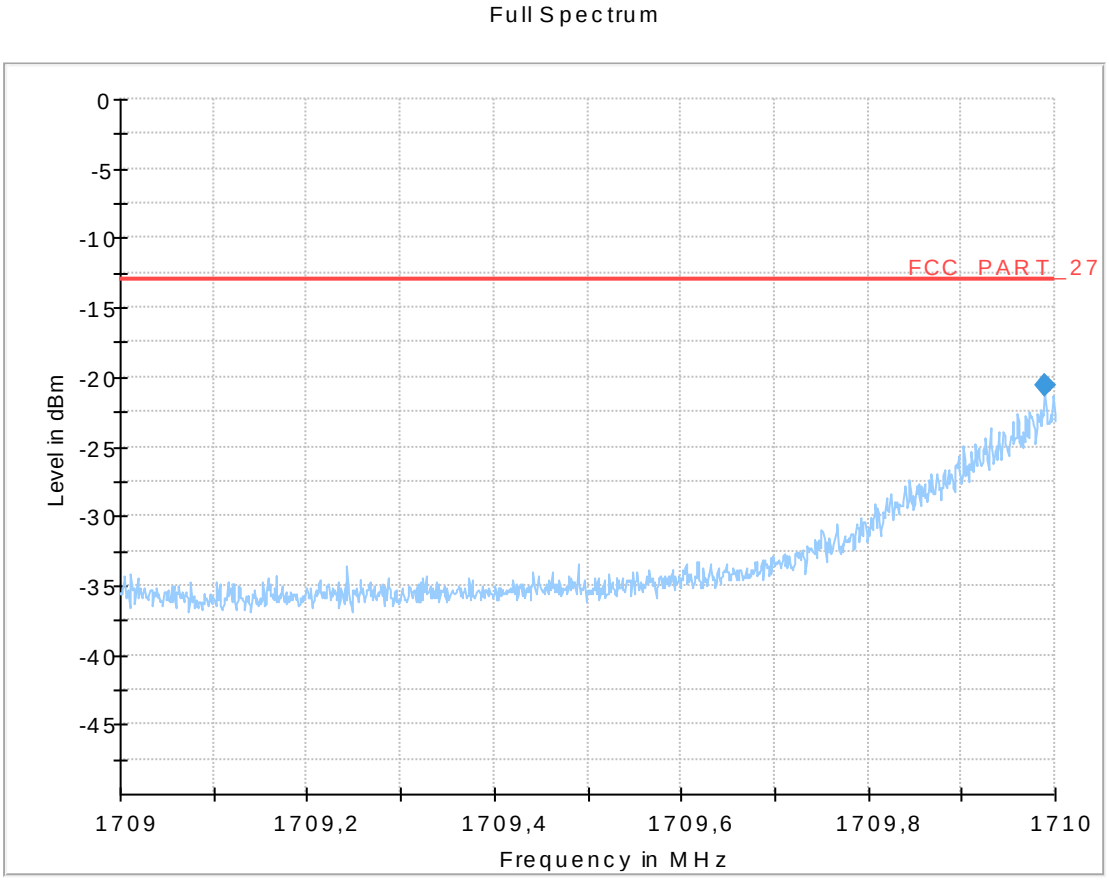
# 9.12_BE_LTE4_low_Ch19965_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE3MHz_15RBlow_ModulationQPSK_CH 19965 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1709.989000 | - | -13.00 | 7.67 | 700.0 | 30.000 | 155.0 | V | 285.0 | 90.0 | -63.3 |

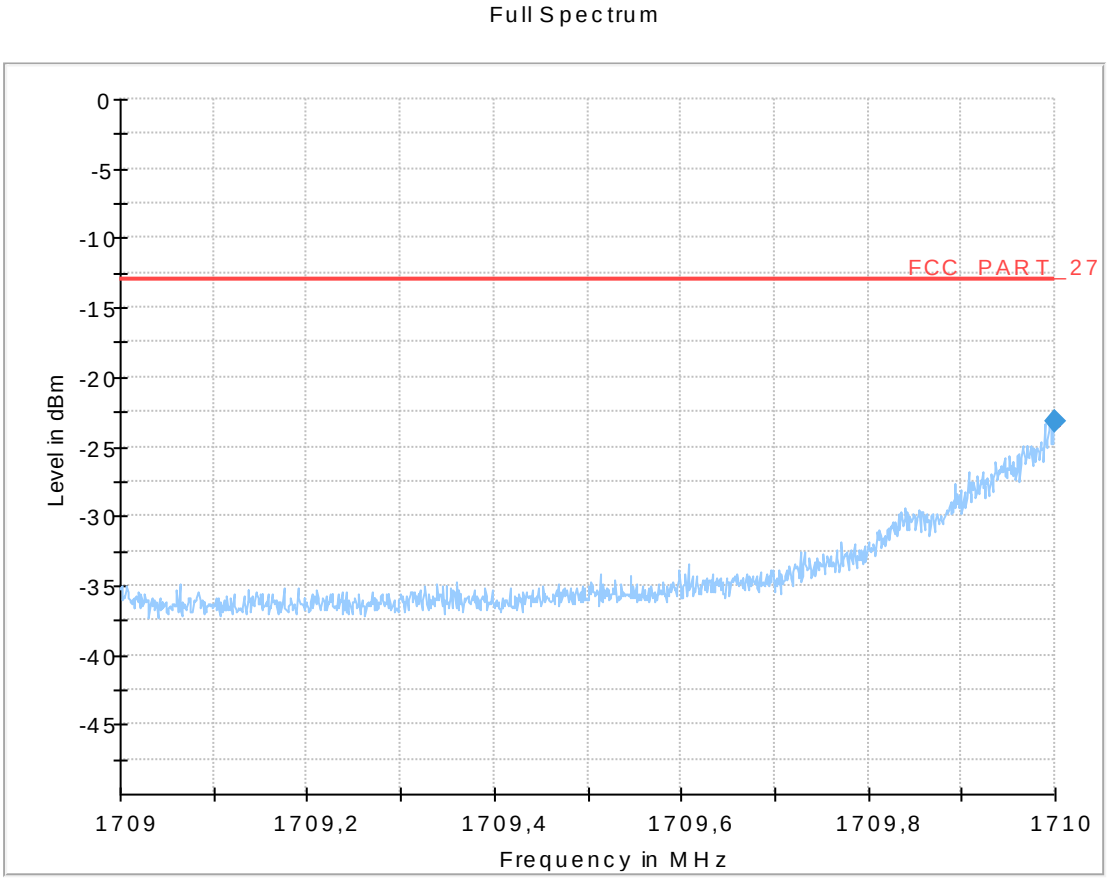
# 9.13_BE_LTE4_low_Ch19965_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE3MHz_15RBlow_ModulationQAM_CH 19965 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1709.999000 | - | -13.00 | 10.24 | 700.0 | 30.000 | 155.0 | V | 280.0 | 90.0 | -63.3 |

### 1.9.2. High Band-Edge

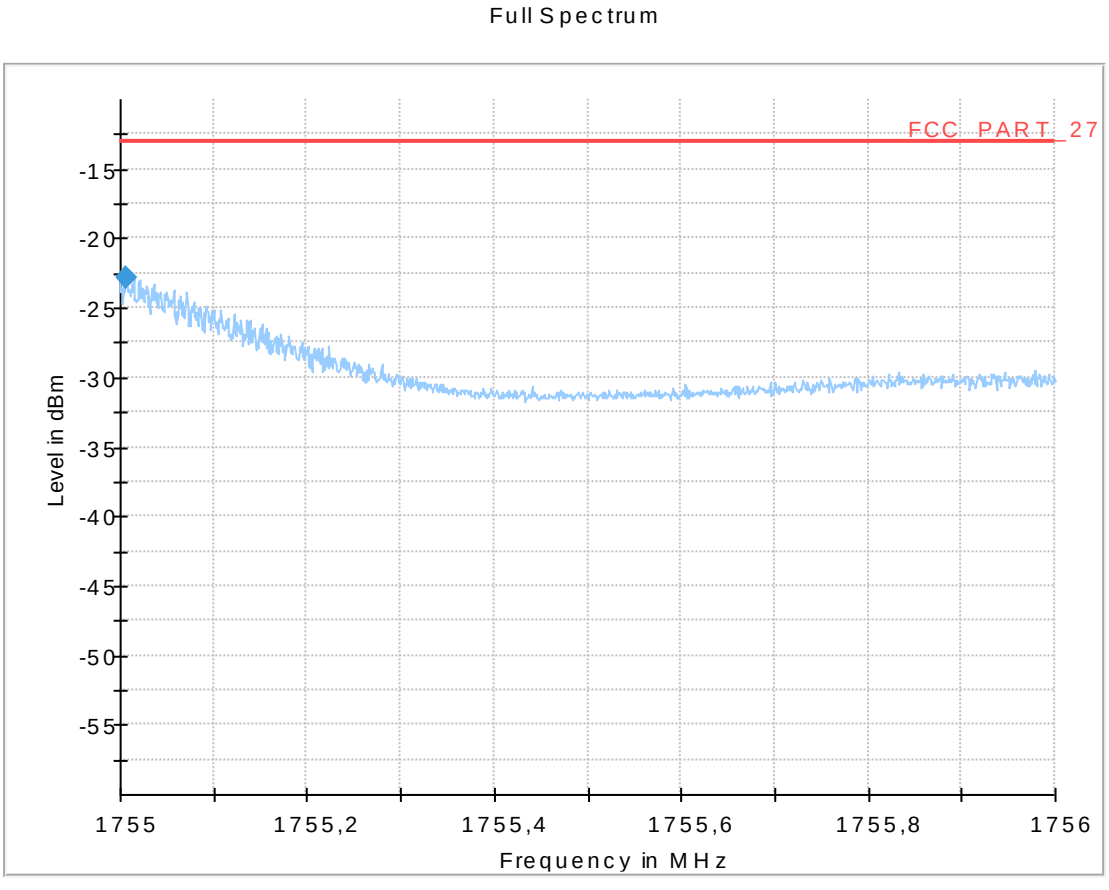
# 9.14_BE_LTE4_high_Ch20300_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE20MHz_1RBhigh_ModulationQPSK_CH20300 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1755.007000 | -22.84 | -13.00 | 9.84 | 700.0 | 200.000 | 155.0 | V | 286.0 | 90.0 | -63.6 |

# 9.15_BE_LTE4_high_Ch20300_QAM

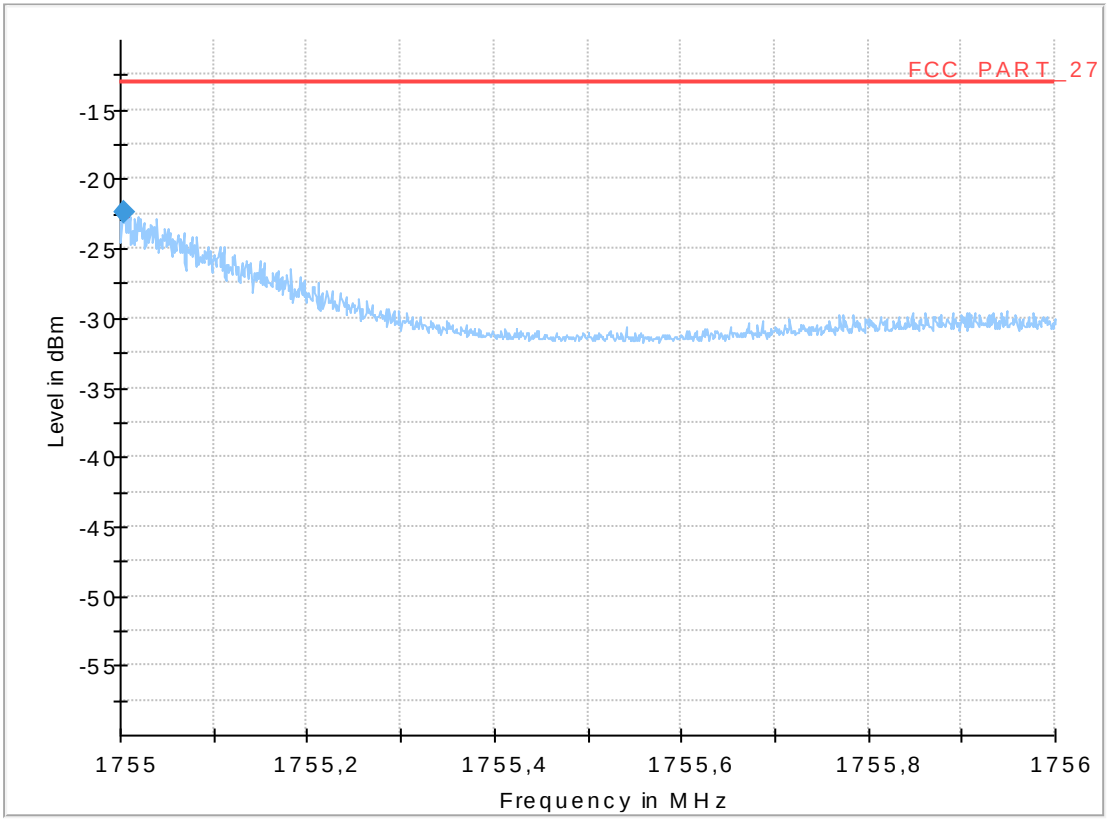
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE20MHz_1RBhigh_ModulationQAM_CH20300 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1755.005000 | -22.44 | -13.00 | 9.44 | 700.0 | 200.000 | 155.0 | V | 286.0 | 90.0 | -63.6 |

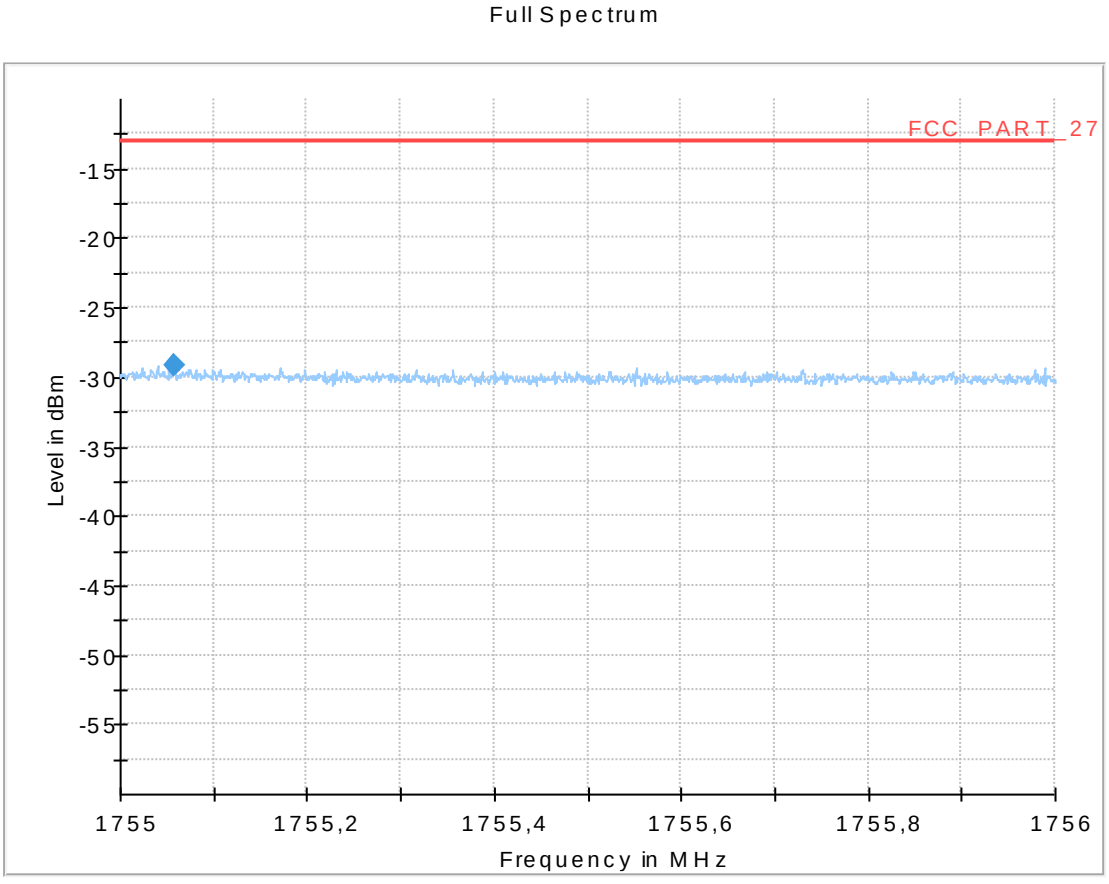
# 9.16_BE_LTE4_high_Ch20300_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE20MHz_1RBhigh_ModulationQPSK_CH20300 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1755.058000 | -29.12 | -13.00 | 16.12 | 700.0 | 200.000 | 155.0 | V | 285.0 | 90.0 | -63.6 |

# 9.17_BE_LTE4_high_Ch20300_QAM

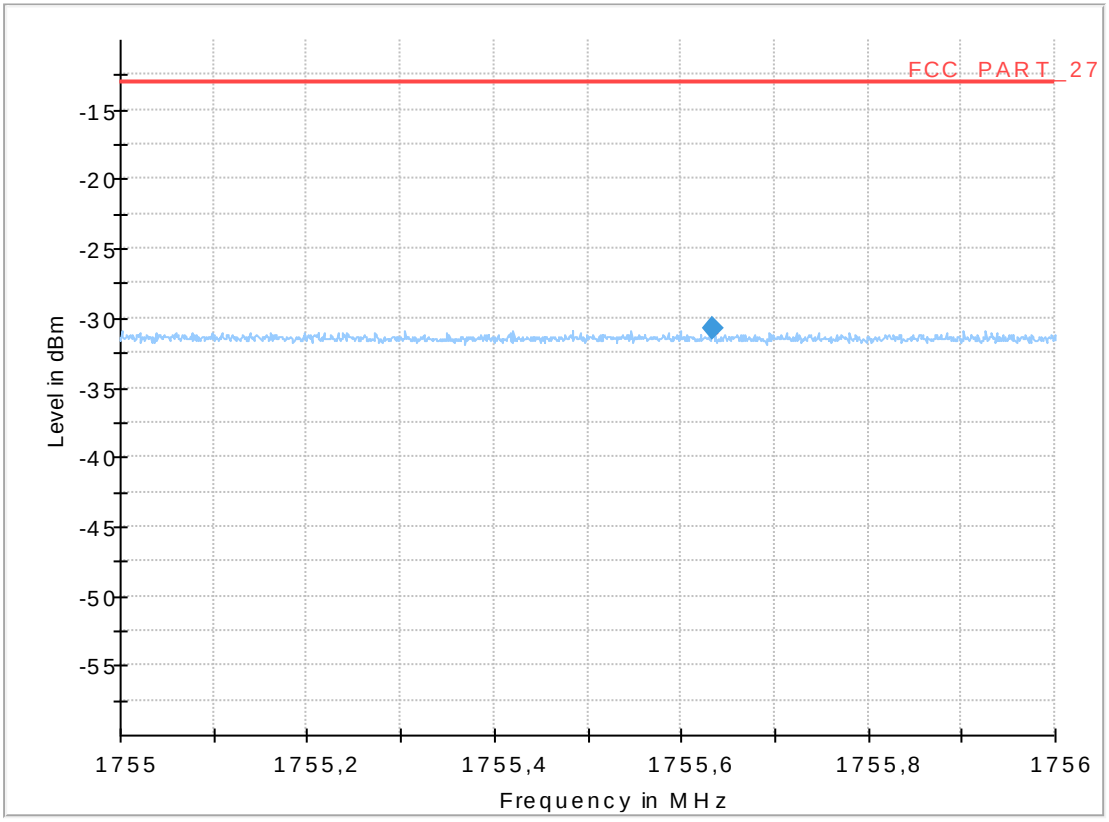
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B4 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE20MHz_1RBhigh_ModulationQAM_CH20300 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | RMS (dBm) | Limit (dBm) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1755.634000 | -30.82 | -13.00 | 17.82 | 700.0 | 200.000 | 155.0 | H | 325.0 | 0.0 | -63.6 |

## 1.10. Radiated emissions – band-edge (LTE Band 5)

### 1.10.1. Low Band-Edge

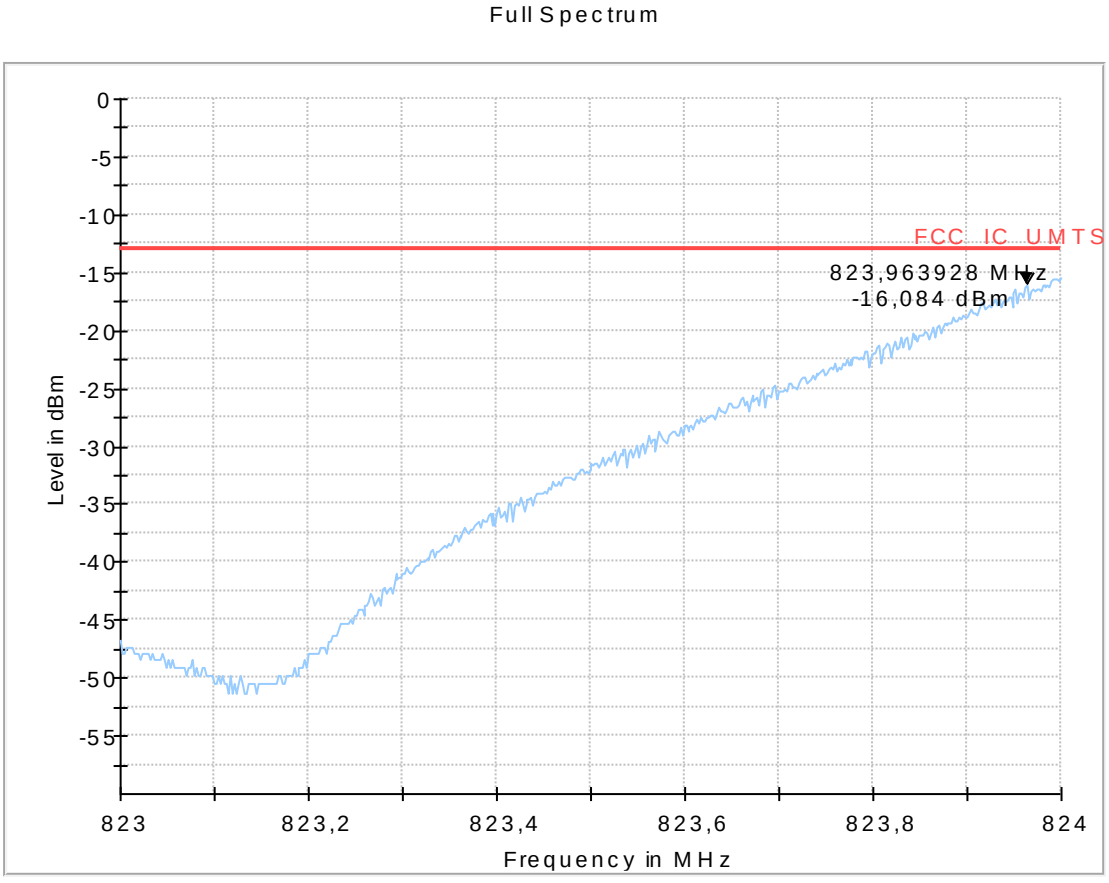
# 9.21_BE_LTE5_1RBLow_Ch20425_QPSK

**Common Information**

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 |
| Operating Mode: | BE5MHz_1RBLow_ModulationQPSK_CH20425 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



# 9.22_BE_LTE5_1RBLow_Ch20425_QAM

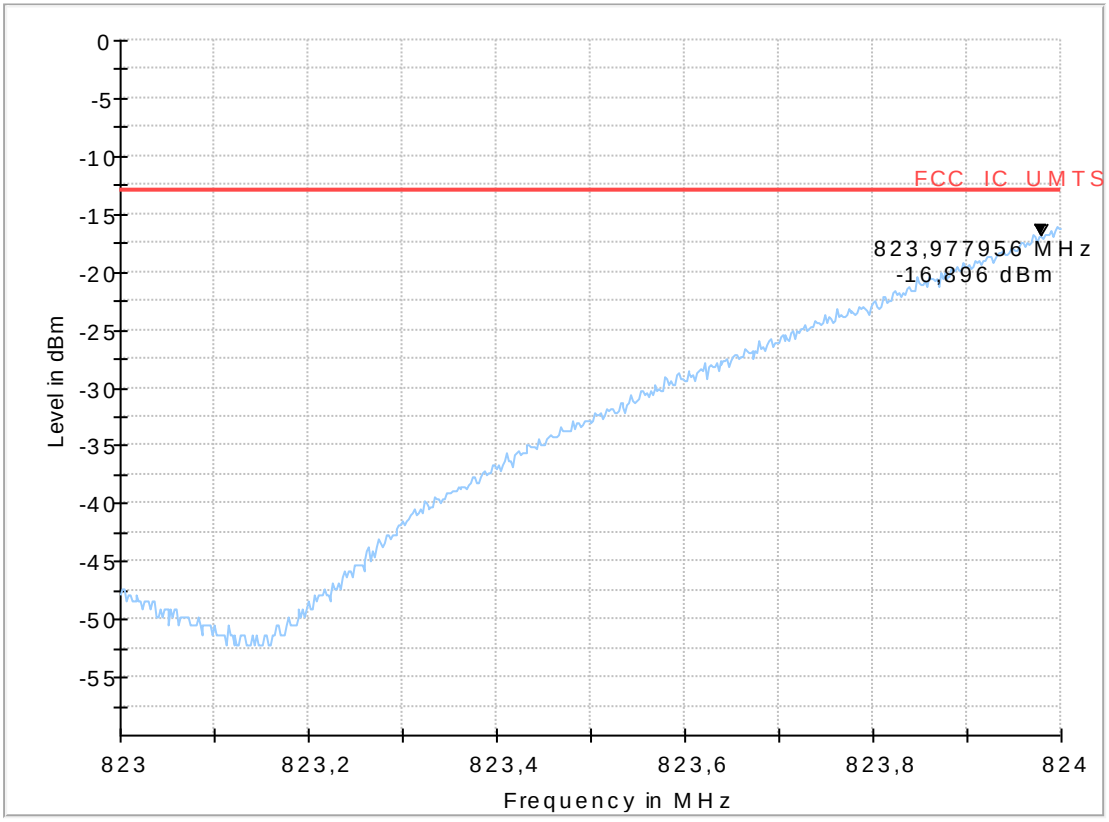
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 |
| Operating Mode: | BE5MHz_1RBLow_ModulationQAM_CH20425 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 9.23_BE_LTE5_25RBLow_Ch20425_QPSK

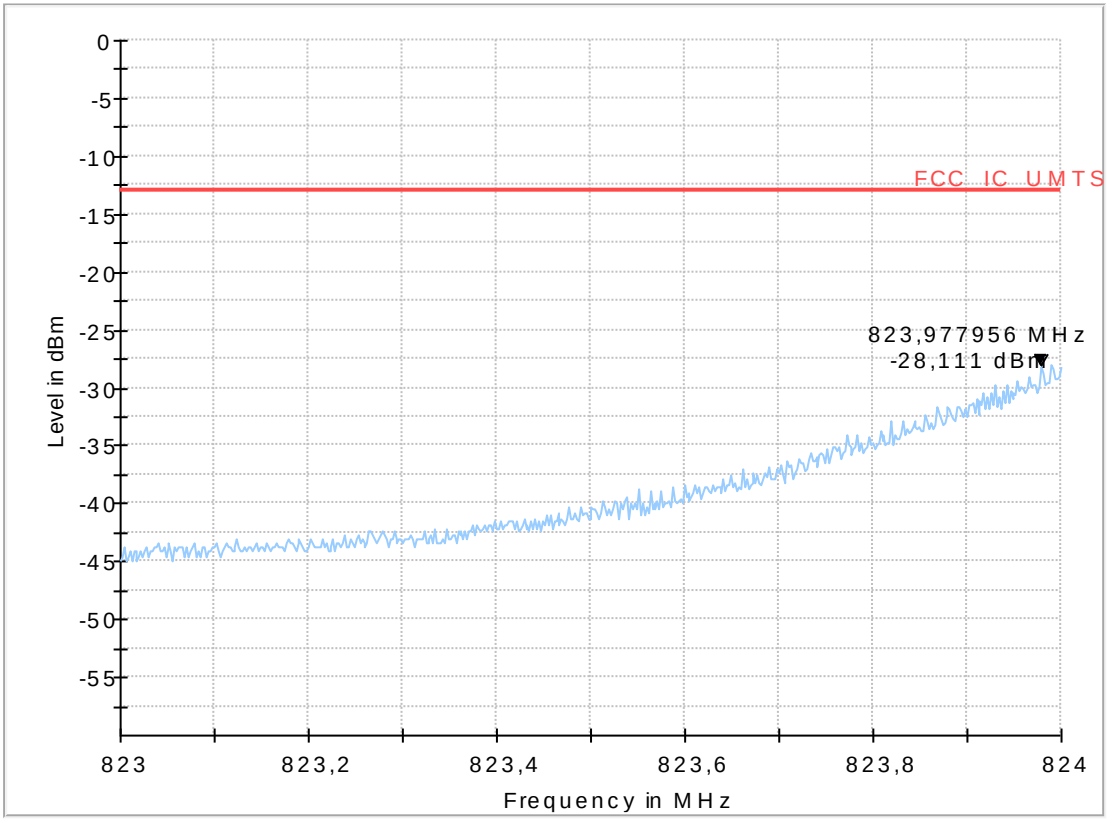
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 |
| Operating Mode: | BE5MHz_25RBLow_ModulationQPSK_CH20425 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 9.24_BE_LTE5_25RBLow_Ch20425_QAM

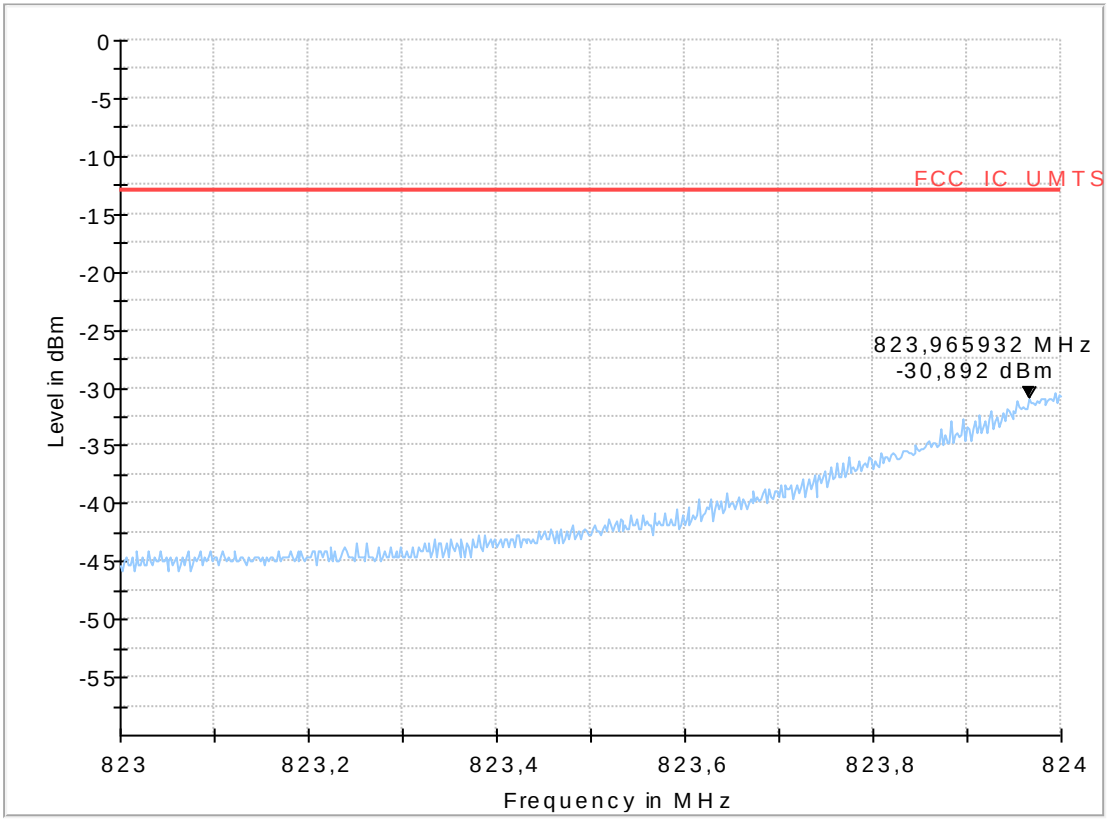
## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B5 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 |
| Operating Mode: | BE5MHz_25RBLow_ModulationQAM_CH20425 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



### 1.10.2. High Band-Edge

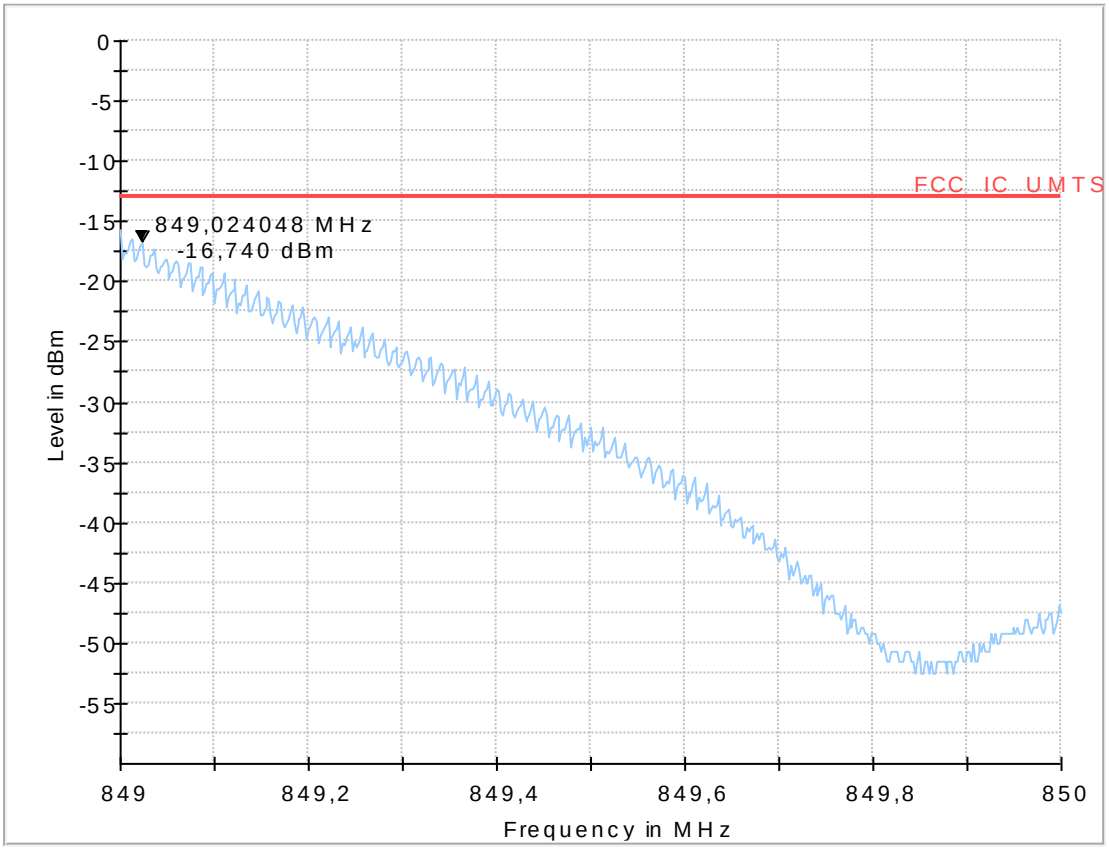
# 9.25_BE_LTE5_1RBHigh_Ch20625_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part xx |
| Operating Mode: | BE5MHz_1RBHigh_ModulationQPSK_CH20625 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



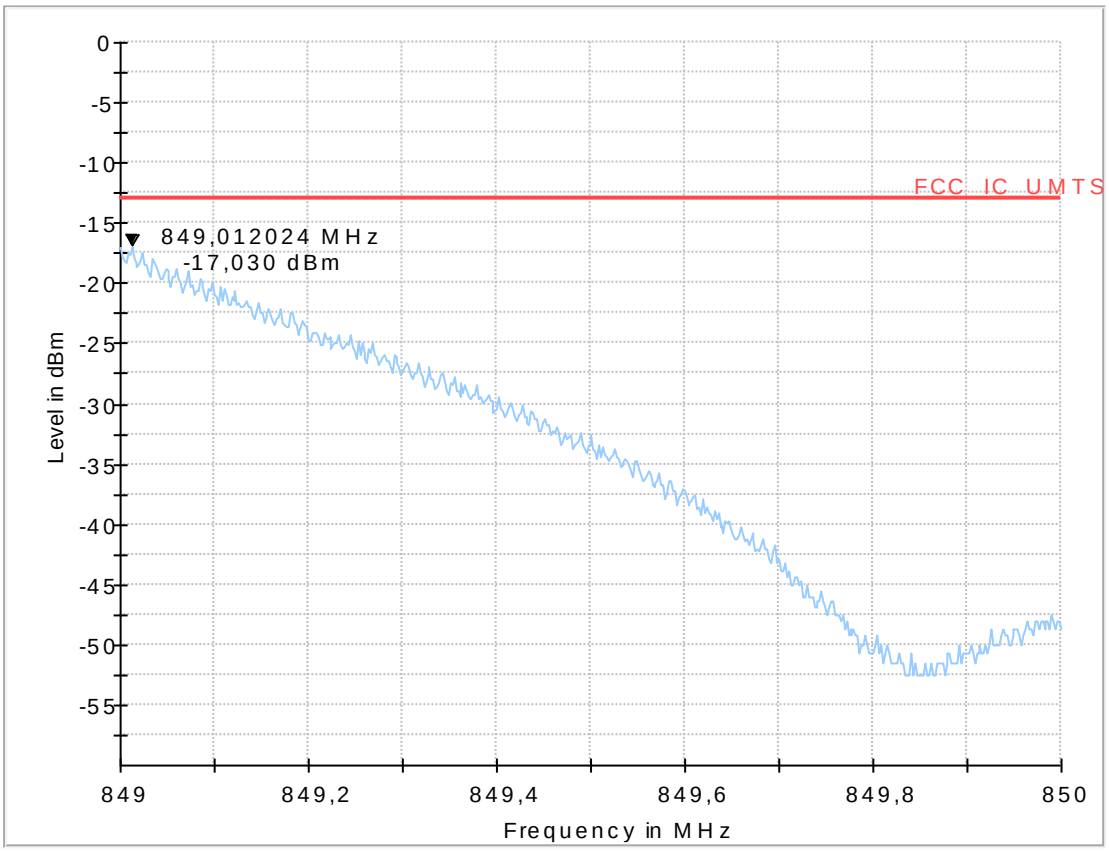
# 9.26_BE_LTE5_1RBHigh_Ch20625_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part xx |
| Operating Mode: | BE5MHz_1RBHigh_ModulationQAM_CH20625 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



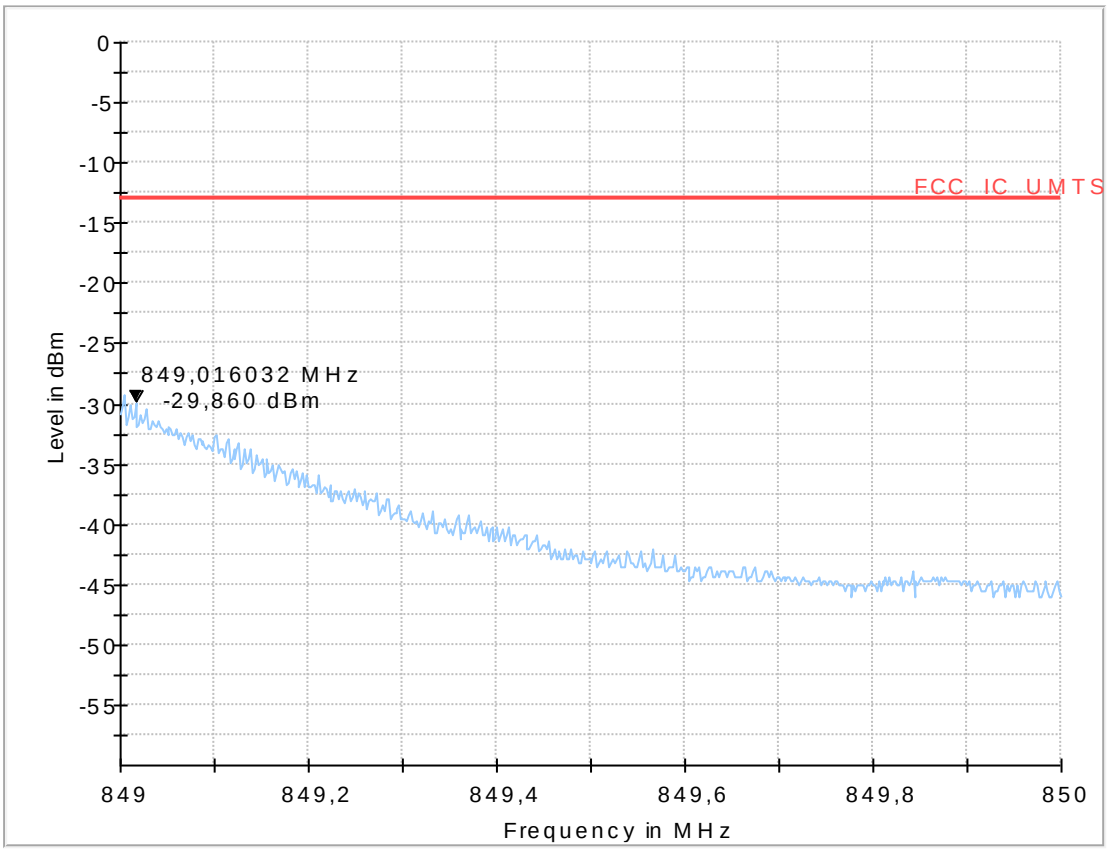
# 9.27_BE_LTE5_25RBHigh_Ch20625_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 24 |
| Operating Mode: | BE5MHz_25RBHigh_ModulationQPSK_CH20625 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



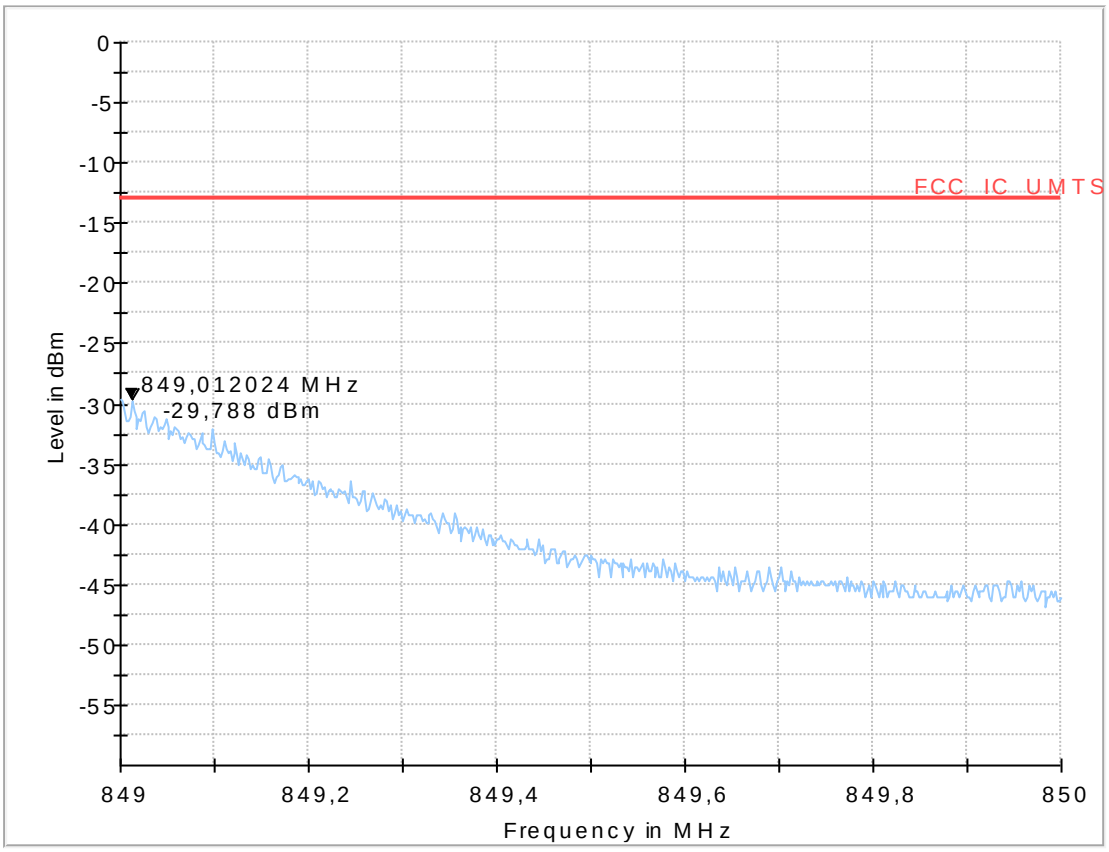
# 9.28_BE_LTE5_25RBHigh_Ch20625_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated field strength emission in 3m distance |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part xx |
| Operating Mode: | BE5MHz_25RBHigh_ModulationQAM_CH20625 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



## 1.11. Radiated emissions – band-edge (LTE Band 7)

### 1.11.1. Low Band-Edge

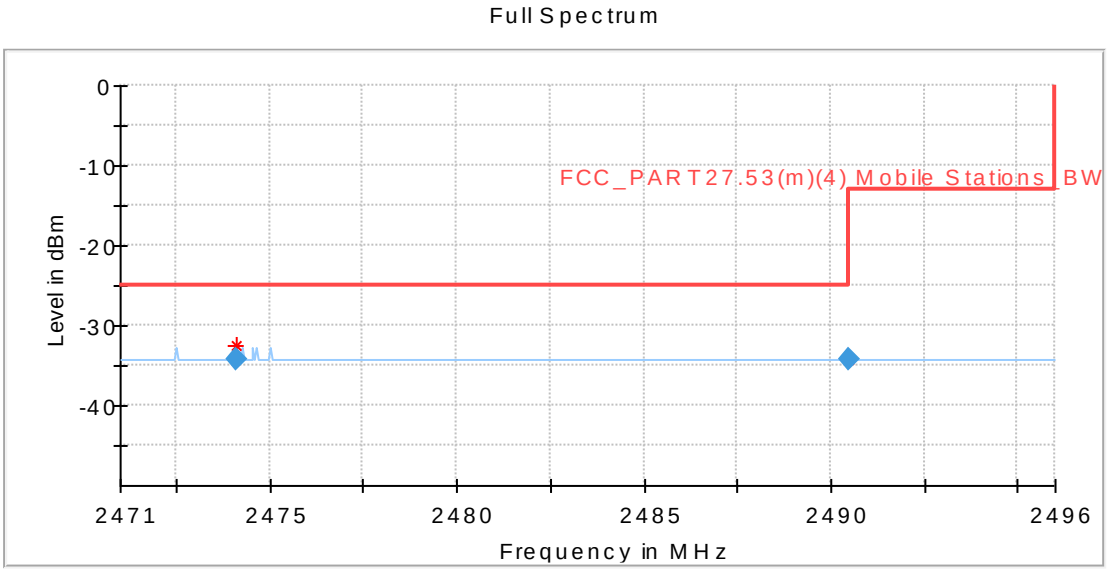
# 9.30_BE_LTE7_1RB_Low_CH20850_QPSK_new

**Common Information**

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 20850/ BW20: / RB 1: / Position: low/ QPSK |
| Environmental Conditions: | Humidity: 45%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | Mah/Soz |
| Remarks: | EUT - laying/standing position |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



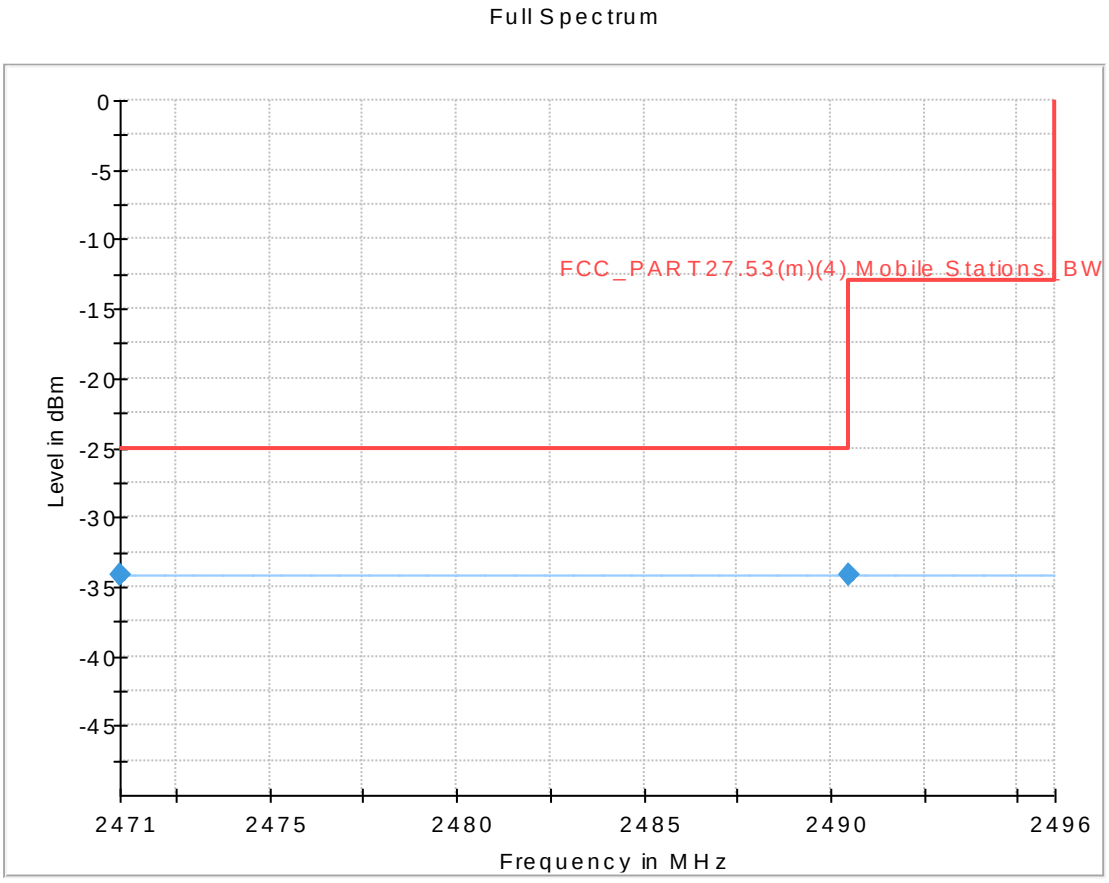
# 9.31_BE_LTE7_1RB_CH20850_QAM

## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 20850/ BW:20MHz / RB: 1/ Position: low/ QAM |
| Environmental Conditions: | Humidity: 45%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | Mah/Soz |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 2471.000000 | - | 9.20 | 1000.0 | 155.0 | H | 29.0 | 90.0 | -59.6 | 09:46:51 - 20.09.2017 |
| 2490.488978 | - | 9.19 | 1000.0 | 155.0 | H | 32.0 | 90.0 | -59.6 | 09:48:49 - 20.09.2017 |

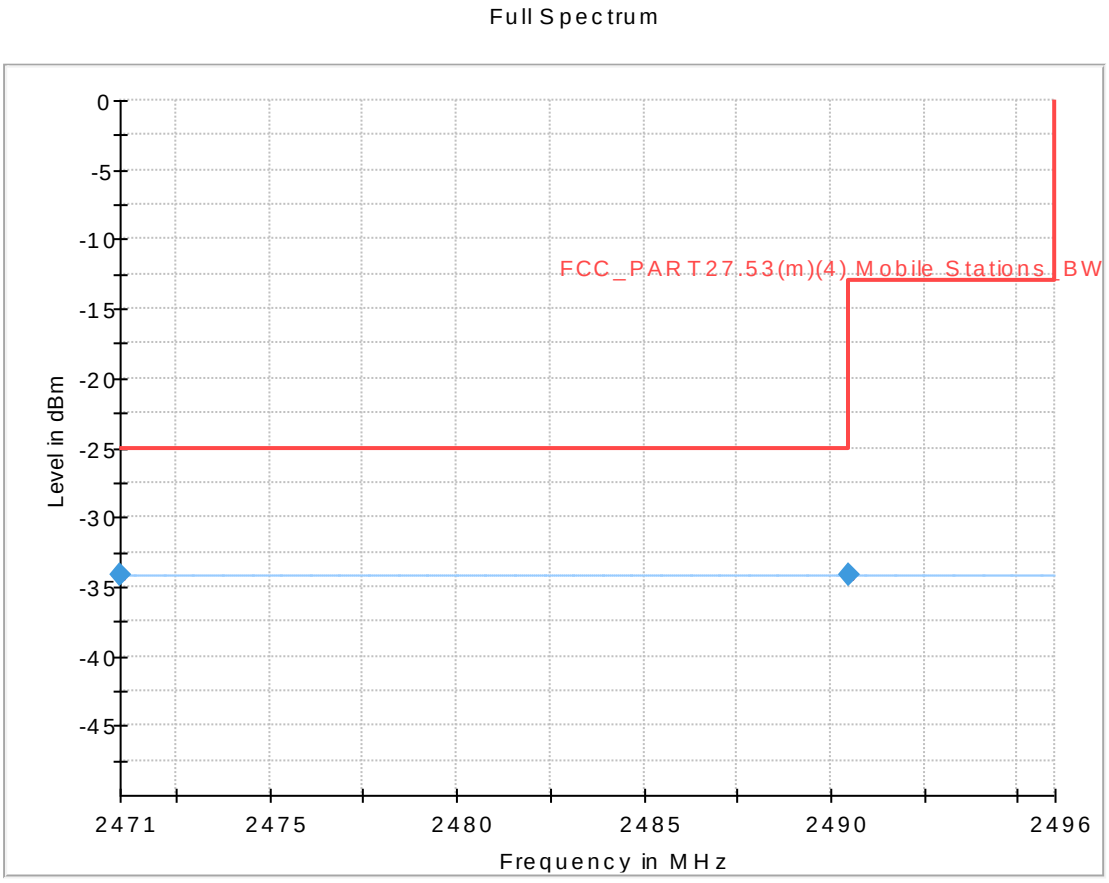
# 9.32_BE_LTE7_100RB_CH20850_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 20850/ BW: 20MHz/ RB: 100/ QPSK |
| Environmental Conditions: | Humidity: 45%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | Mah/Soz |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 2471.000000 | - | 9.20 | 1000.0 | 155.0 | H | 31.0 | 90.0 | -59.6 | 10:27:48 - 20.09.2017 |
| 2490.488978 | - | 9.19 | 1000.0 | 155.0 | H | 31.0 | 90.0 | -59.6 | 10:29:48 - 20.09.2017 |

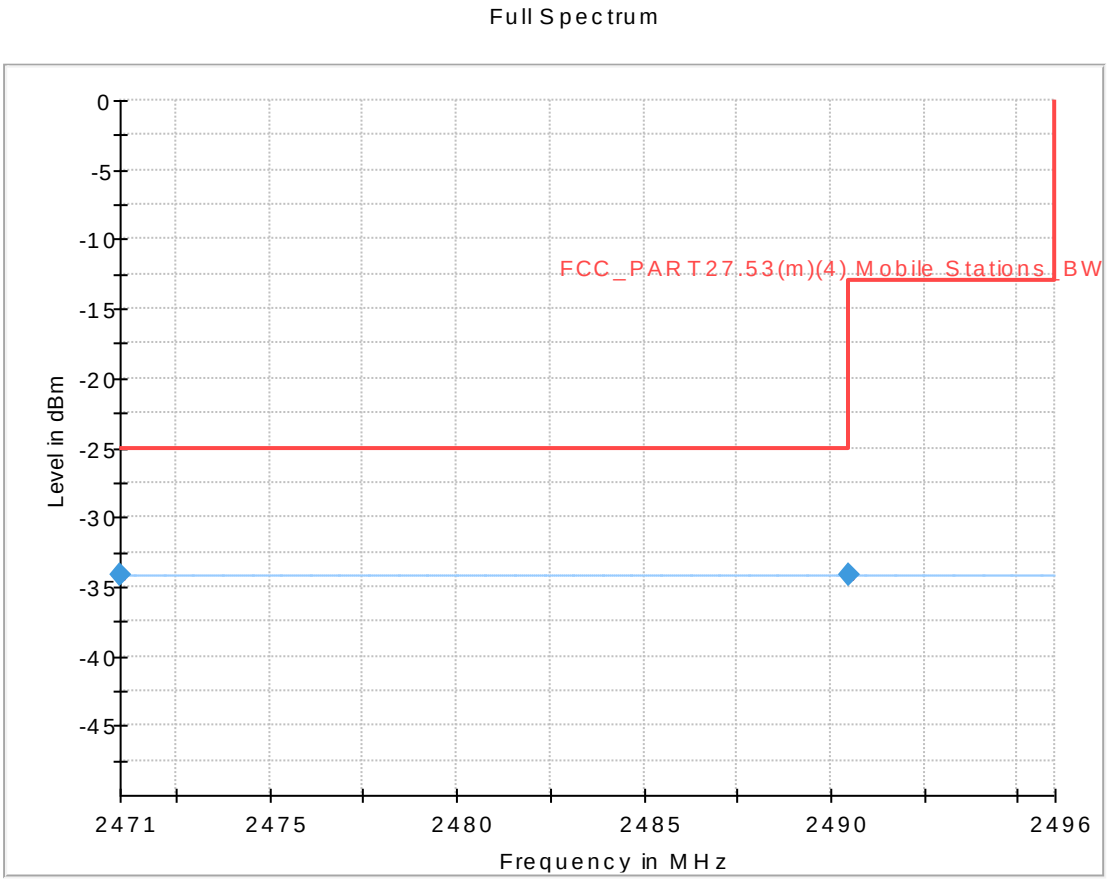
# 9.33_BE_LTE7_100RB_CH20850_QAM

## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 20850/ BW: 20MHz/ RB: 100/ QAM |
| Environmental Conditions: | Humidity: 45%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | Mah/Soz |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Height (cm) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 2471.000000 | - | 9.20 | 1000.0 | 155.0 | H | 31.0 | 90.0 | -59.6 | 10:07:58 - 20.09.2017 |
| 2490.488978 | - | 9.19 | 1000.0 | 155.0 | H | 30.0 | 90.0 | -59.6 | 10:09:58 - 20.09.2017 |

### 1.11.2. High Band-Edge

# 9.34_BE_LTE7_1RB_High_CH21425_QPSK

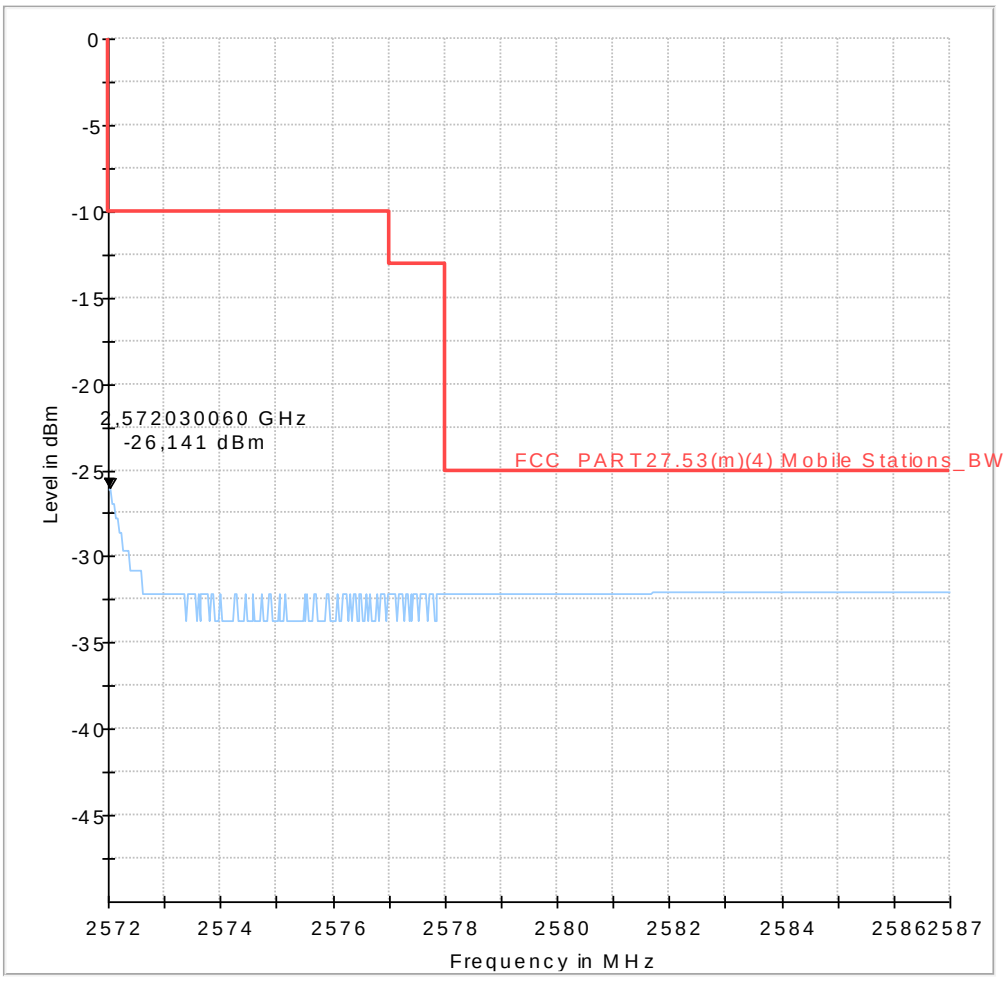
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21425/ BW: 5MHz/ RB: 1/ Position: high/ QPSK |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | KIv |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 9.35_BE_LTE7_1RB_High_CH21425_QAM

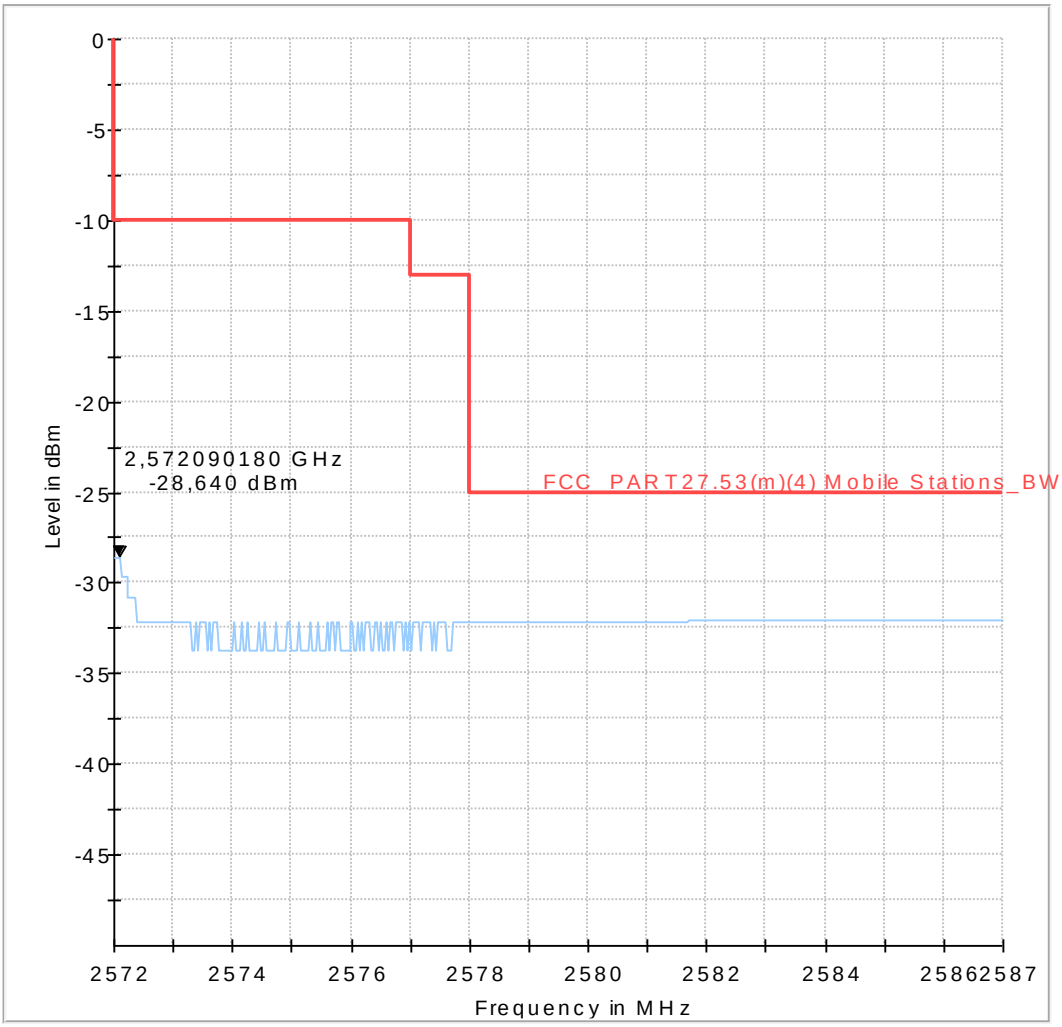
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21425/ BW: 5MHz/ RB: 1/ Position: high/ QAM |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | KIv |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 9.36_BE_LTE7_25RB_High_CH21425_QPSK

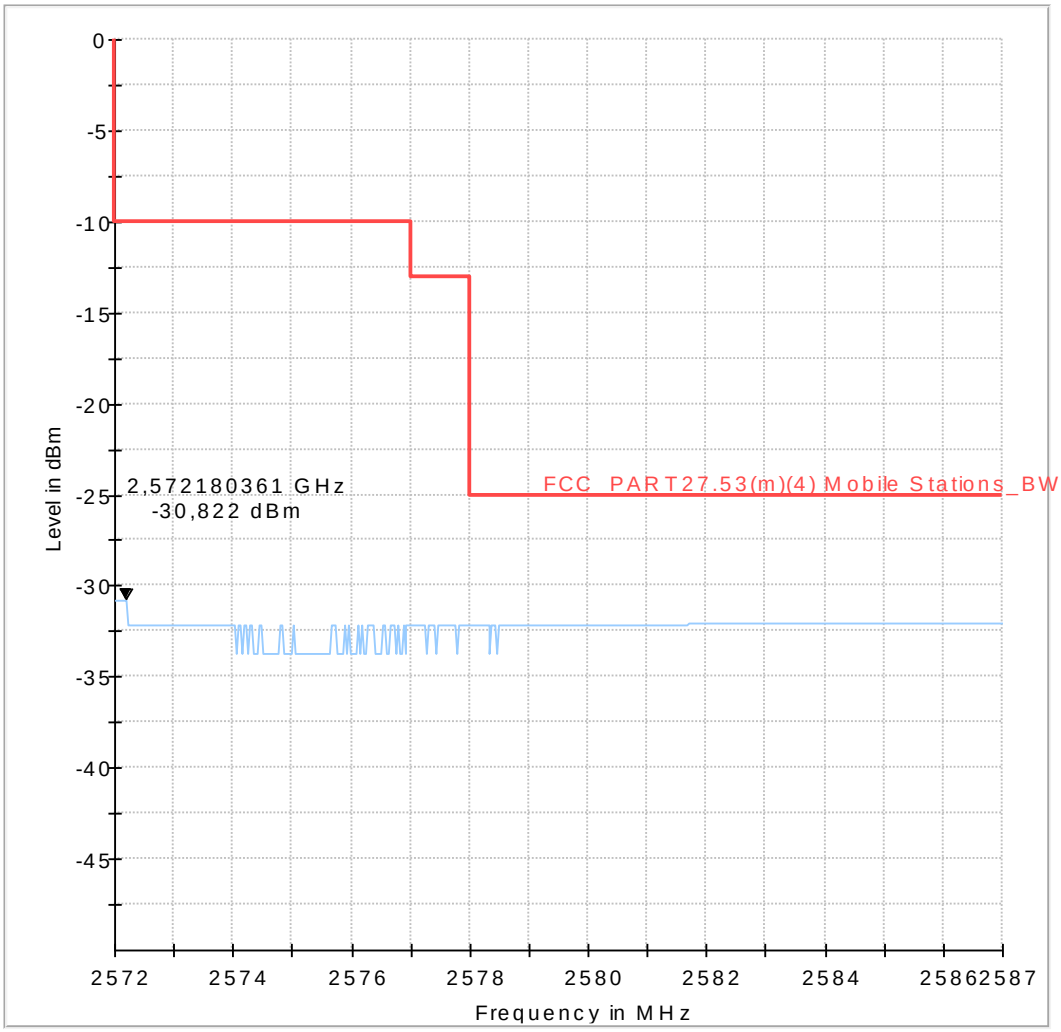
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21425/ BW: 5MHz/ RB: 25/ QPSK |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | KIv |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



# 9.37_BE_LTE7_25RB_High_CH21425_QAM

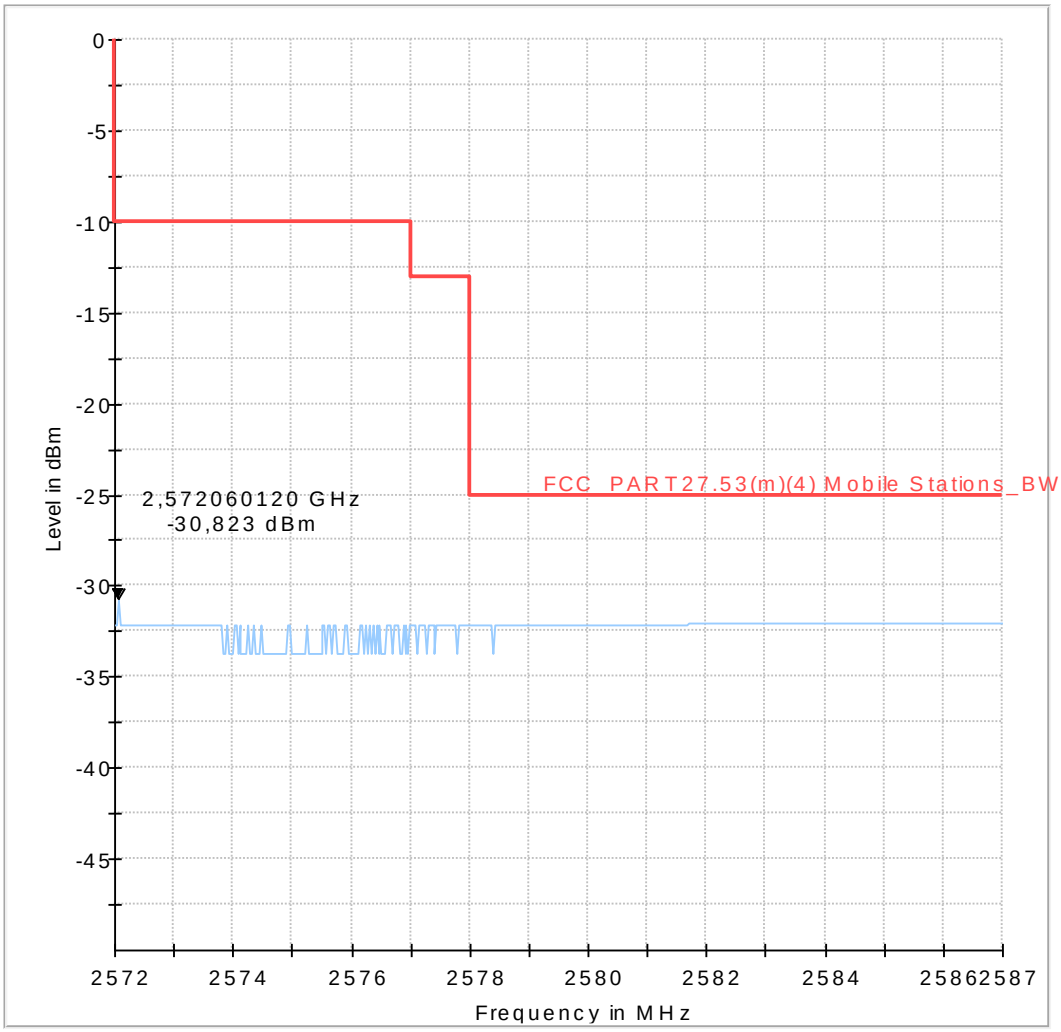
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge low - Radiated Spurious Emissions LTE Band 7 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27.53(l)(4) Mobile stations limits |
| Operating Mode: | UE allocated channel 21425/ BW: 5MHz/ RB: 25/ QAM |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 23°C |
| Test SW Version: | EMC32 V9.26.0 |
| Operator: | KIv |
| Remarks: | EUT - laying/standing position |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum



## 1.12. Radiated emissions – band-edge (LTE Band 17)

### 1.12.1. Low Band-Edge

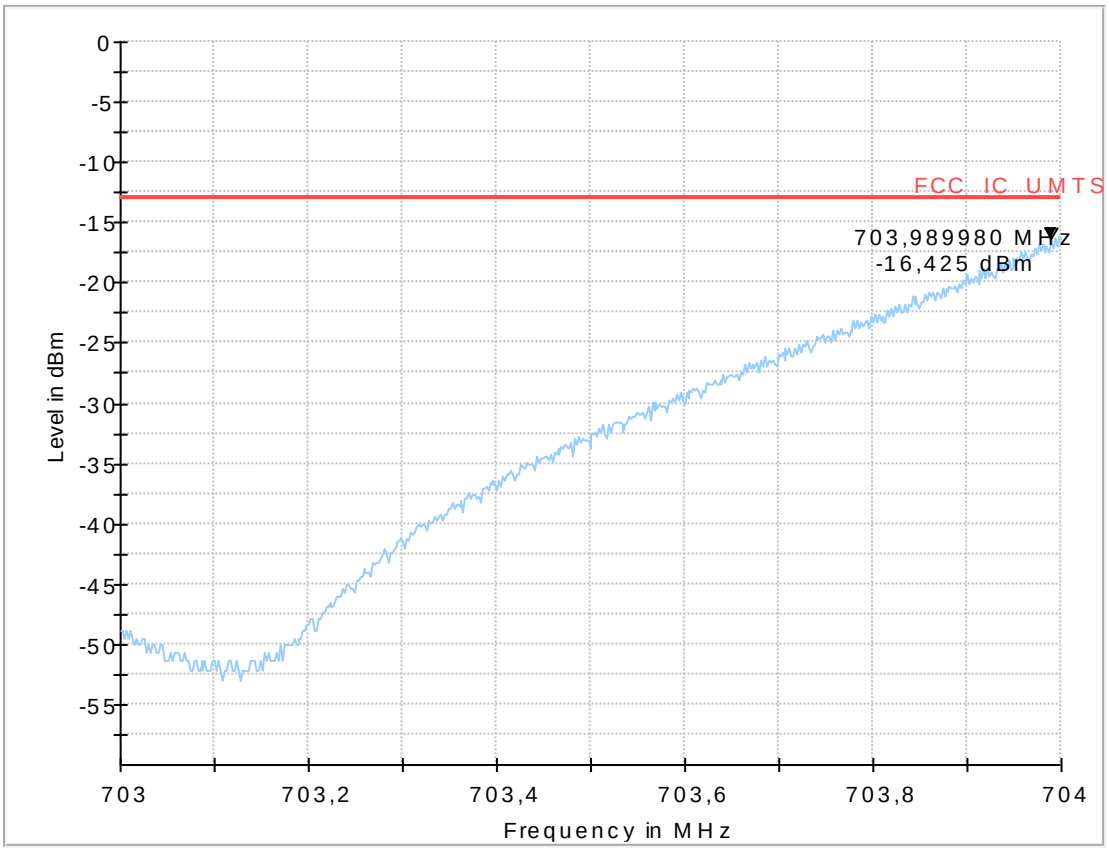
# 9.40_BE_LTE17_1RBLow_Ch23755_QPSK

**Common Information**

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE5MHz_1RBLow_ModulationQPSK_CH23755 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

**EUT Information**

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



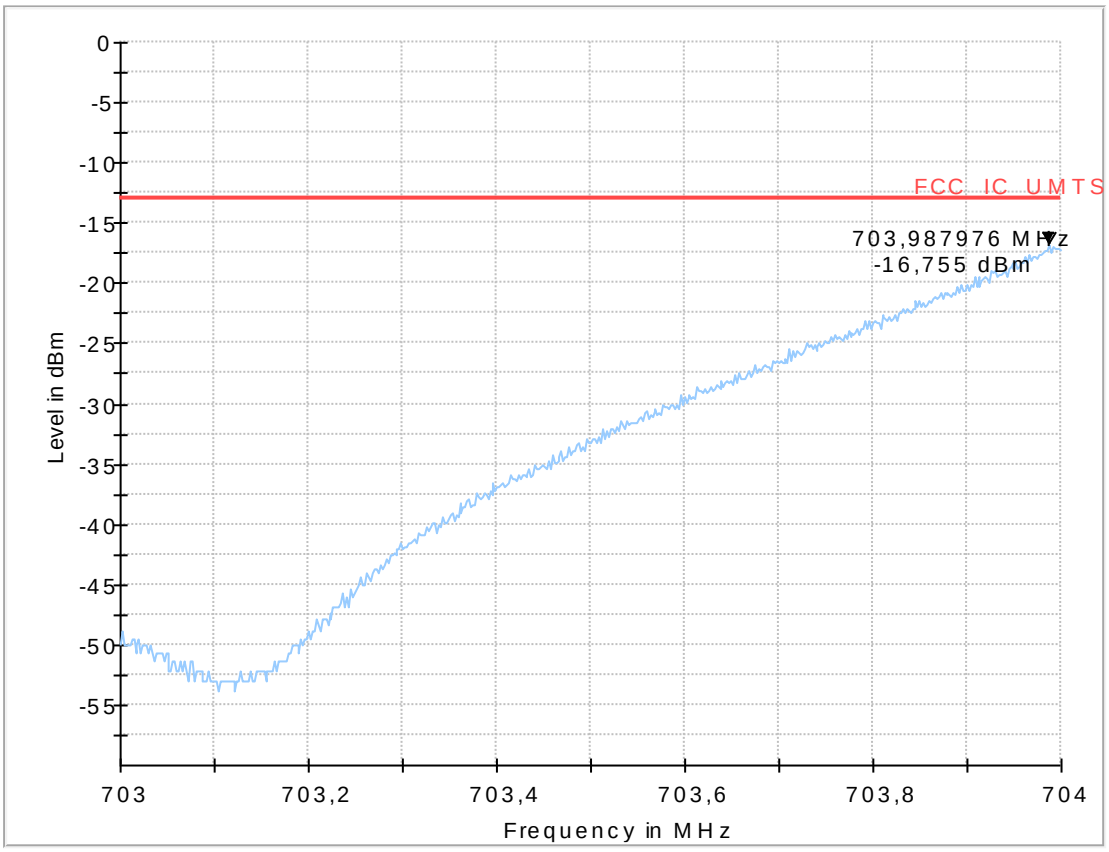
# 9.41_BE_LTE17_1RBLow_Ch23755_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE5MHz_1RBLow_ModulationQAM_CH23755 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



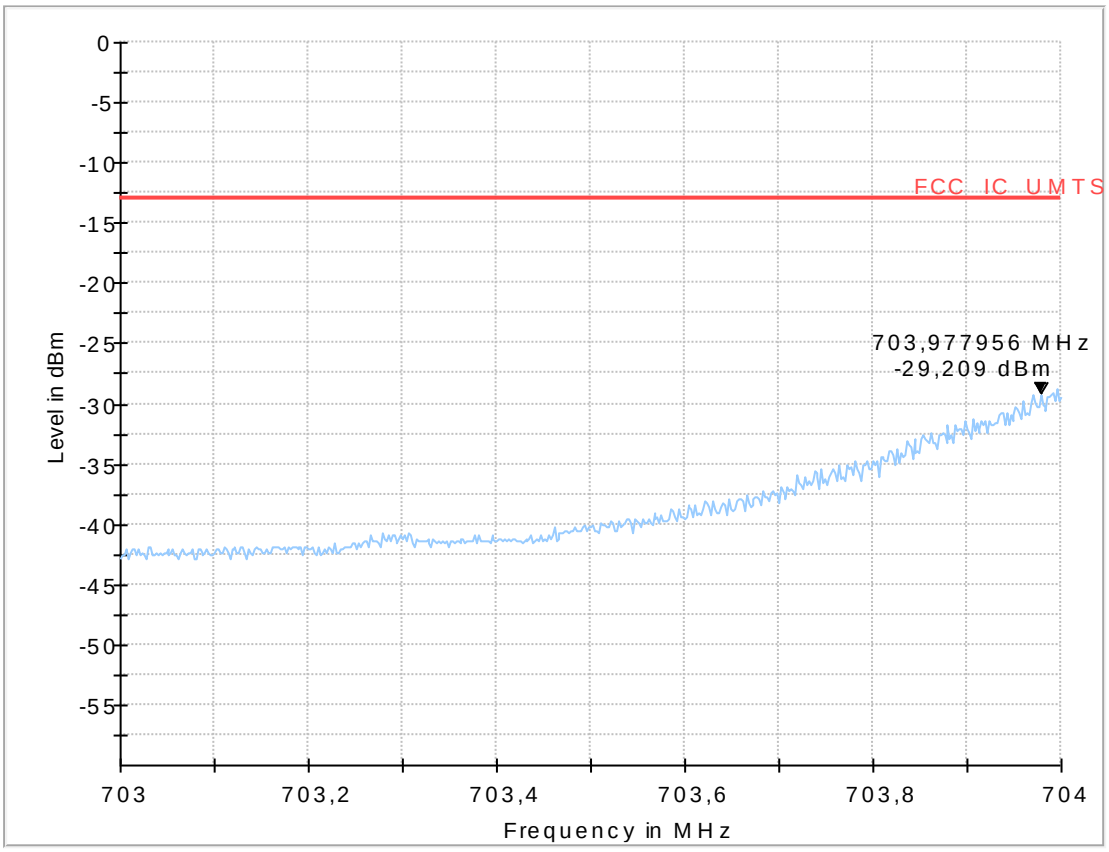
# 9.42_BE_LTE17_25RBLow_Ch23755_QPSK

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE5MHz_25RBLow_ModulationQPSK_CH23755 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



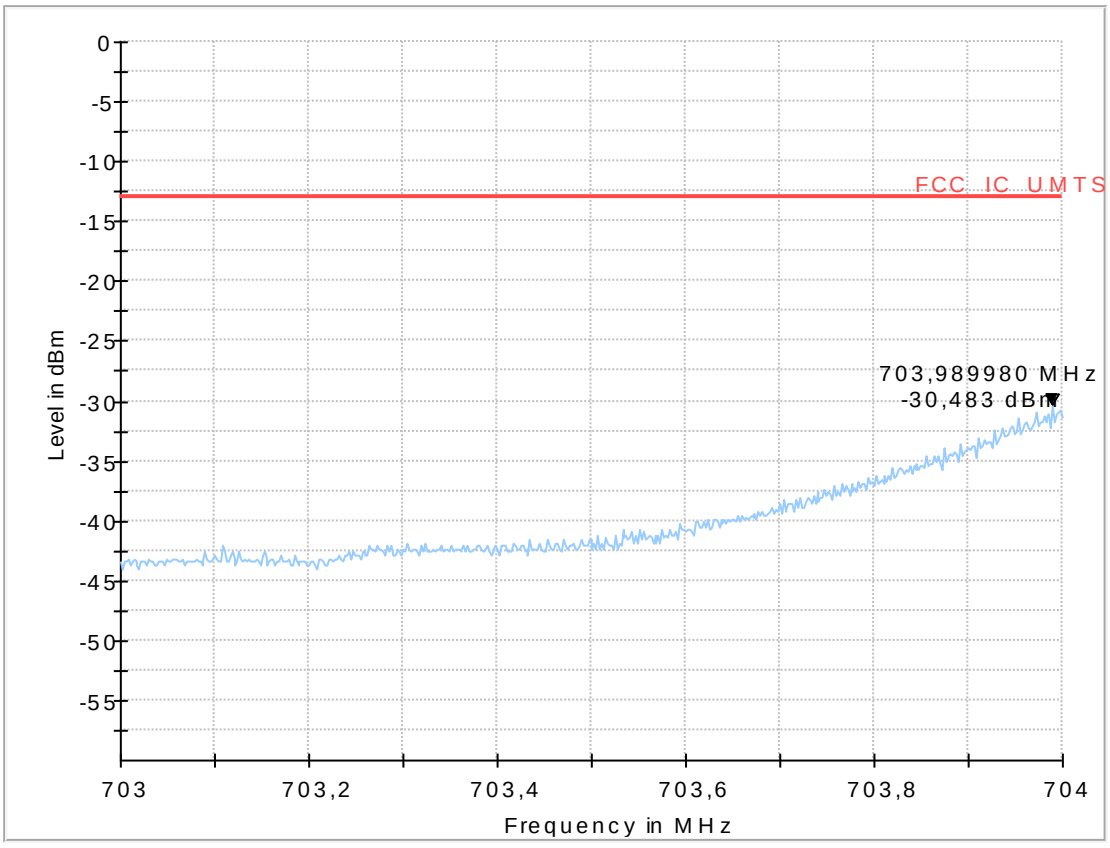
# 9.43_BE_LTE17_25RBLow_Ch23755_QAM

## Common Information

| | |
|---|---|
| Test Description: | Radiated Band Edge Compliance LTE B17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 27 |
| Operating Mode: | BE5MHz_25RBLow_ModulationQAM_CH23755 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | RIs |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |



### 1.12.2. High Band-Edge

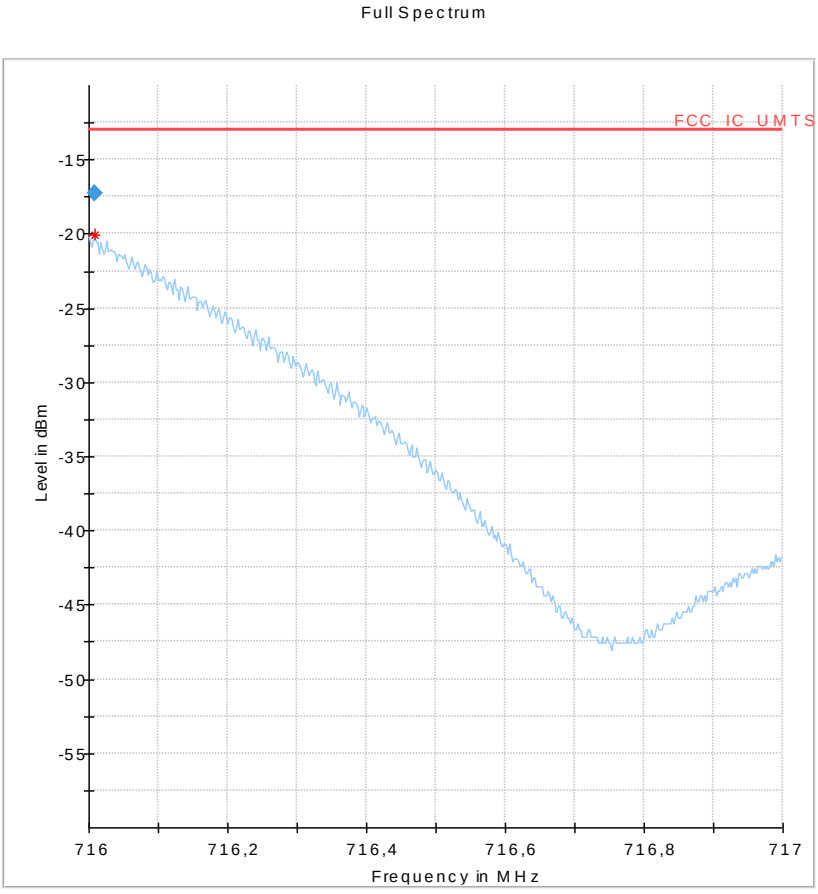
# 9.44_BE_R_Ch23800_QPSK_1high_BW10

## Common Information

| | |
|---|---|
| Test Description: | Band-Edge - Radiated Spurious Emissions LTE Band 17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 / RSS-133 |
| Operating Mode: | BE10MHz_1high_ModulationQPSK_CH23800 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | TFr |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 716.008016 | - | 4.32 | 100.0 | H | 179.0 | 90.0 | -77.2 |

# 9.45_BE_R_Ch23800_QAM_1high_BW10

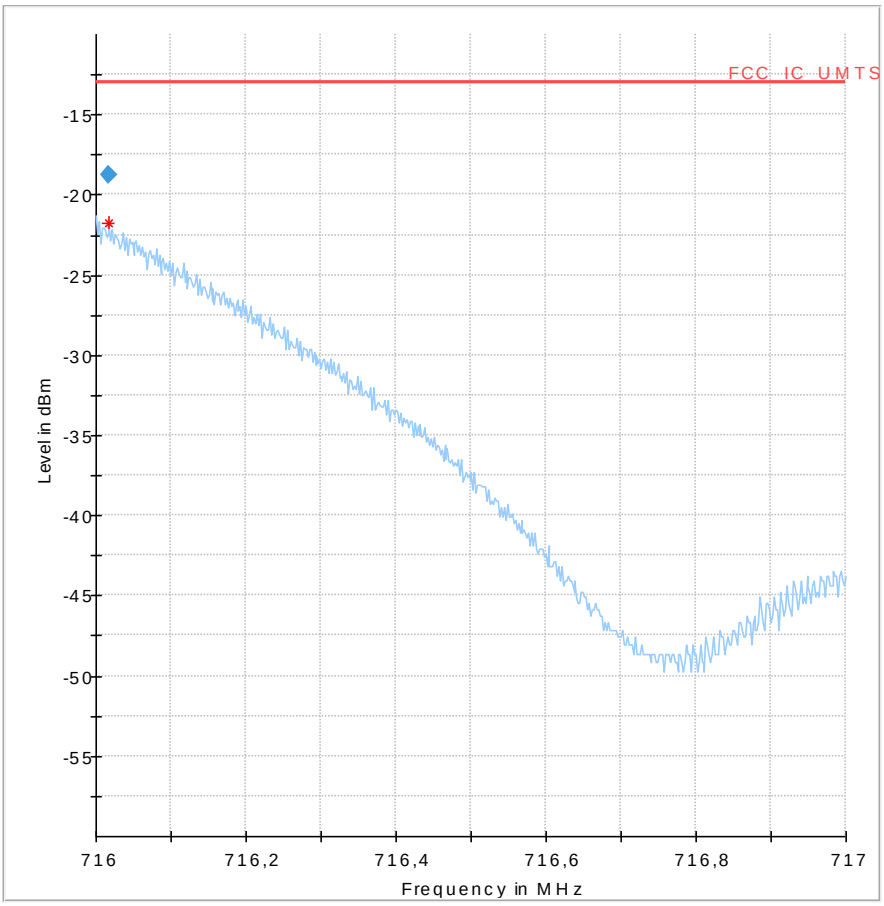
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge - Radiated Spurious Emissions LTE Band 17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 / RSS-133 |
| Operating Mode: | BE10MHz_1high_ModulationQAM_CH23800 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | TFr |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 716.018036 | - | 5.74 | 100.0 | H | 178.0 | 90.0 | -77.2 |

# 9.46_BE_R_Ch23800_QPSK_50RB_BW10

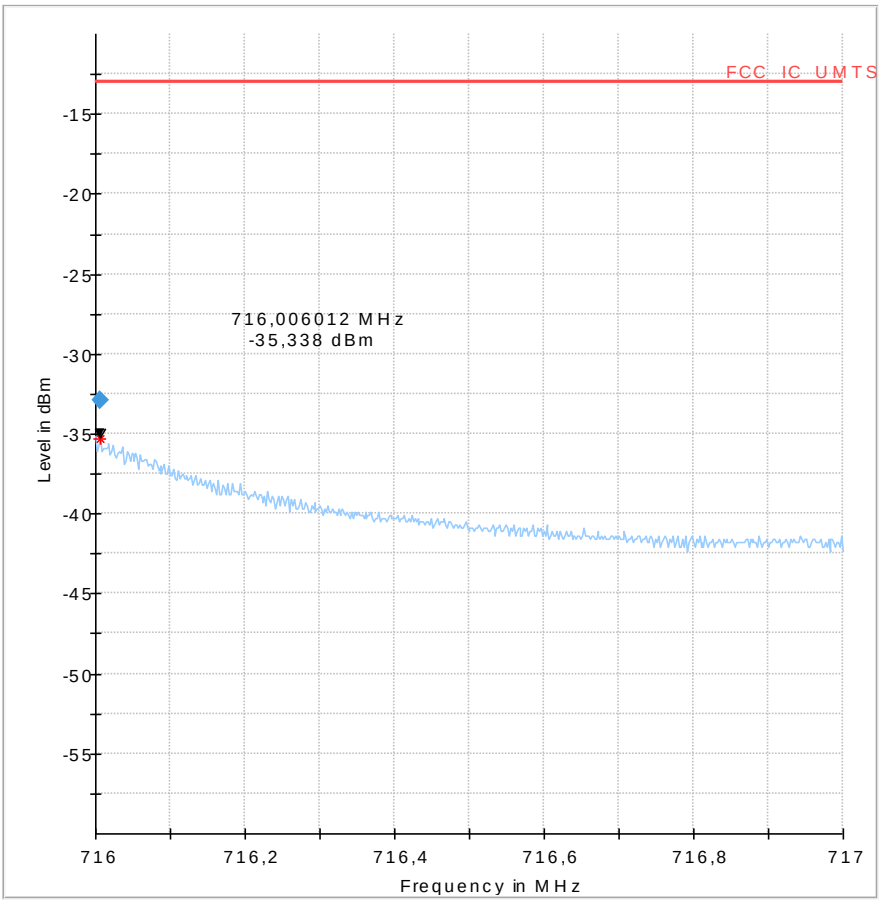
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge - Radiated Spurious Emissions LTE Band 17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 / RSS-133 |
| Operating Mode: | BE10MHz_50RB_ModulationQPSK_CH23800 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | TFr |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 716.006012 | - | 19.90 | 100.0 | H | 186.0 | 90.0 | -77.2 |

# 9.47_BE_R_Ch23800_QAM_50RB_BW10

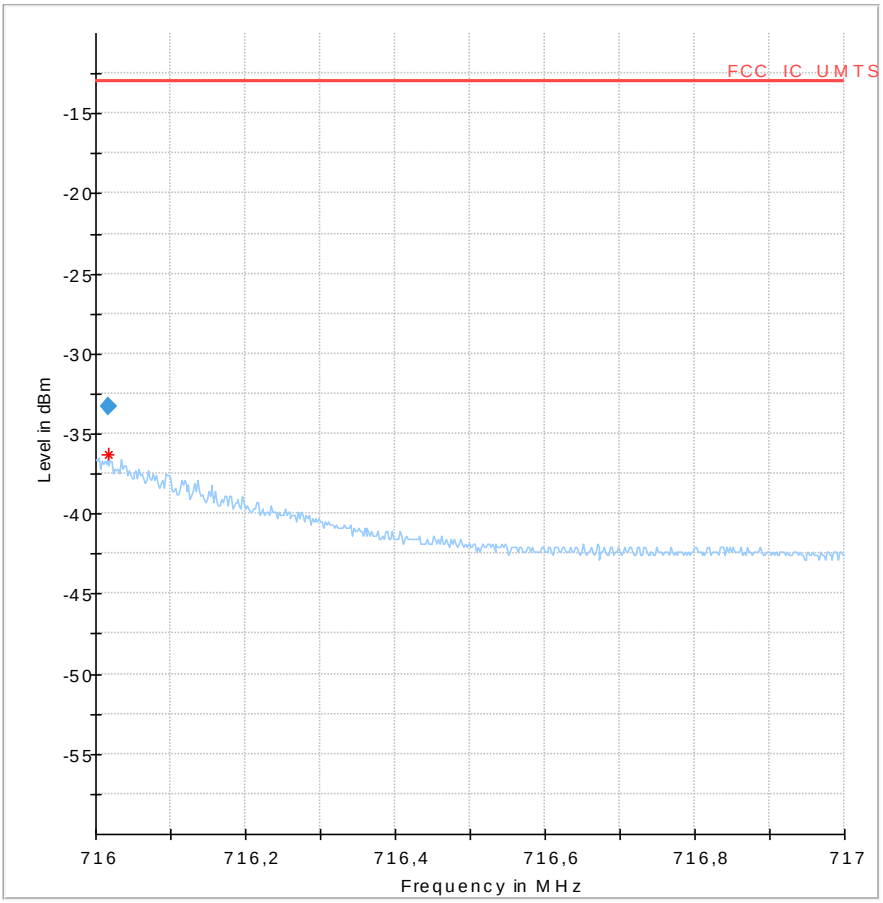
## Common Information

| | |
|---|---|
| Test Description: | Band-Edge - Radiated Spurious Emissions LTE Band 17 |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 22 / RSS-133 |
| Operating Mode: | BE10MHz_50RB_ModulationQAM_CH23800 |
| Environmental Conditions: | Humidity: 35%rH; Temperature: 22°C |
| Operator: | TFr |

## EUT Information

| | |
|---|---|
| Manufacturer: | Robert Bosch Car Multimedia GmbH |
| EuT: | 66-10777-001 |
| --- | --- |
| HW Version: | 9134G05 |
| SW Version: | 17.02.S.016 |
| Serial Number: | 2950006922 |
| Connected Interfaces: | Main wiring + DTNA Antenna |
| Power Supply: | 24V DC |

Full Spectrum




## Final_Result

| Frequency (MHz) | Limit (dBm) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 716.016032 | - | 20.35 | 100.0 | H | 179.0 | 90.0 | -77.2 |