

Annex 1: Measurement diagrams to TEST REPORT No.: 18-1-0239001T01a

According to:
FCC Regulations
Part 15.109, Class B

ISED-Regulations
RSS-Gen, Issue 5
ICES-003, Issue 6

for

Robert Bosch Car Multimedia GmbH

AIVIV20 Navigationsystem with WLAN and Bluetooth

FCC-ID: YBN-AIVIV20
ISED: 9595A- AIVIV20







| Laboratory Accreditation and Listings | | |
|--|---|--|
|  Accredited EMC-Test Laboratory |  Industry Canada Reg. No.: 3462D-1 Reg. No.: 3462D-2 Reg. No.: 3462D-3 |  Voluntary Controls for Electromagnetic Emissions Reg. No.: R-4552, C-20009, T-20006, G-20013 |
|  AUTHORIZED RF LABORATORY |  Authorized Test Lab Lab Code: 20011130-00 |  MRA US-EU 0003 |
| accredited according to DIN EN ISO/IEC 17025 | | |
| <p align="center">CETECOM GmbH Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com</p> | | |
| Laboratory Accreditation and Listings | | |

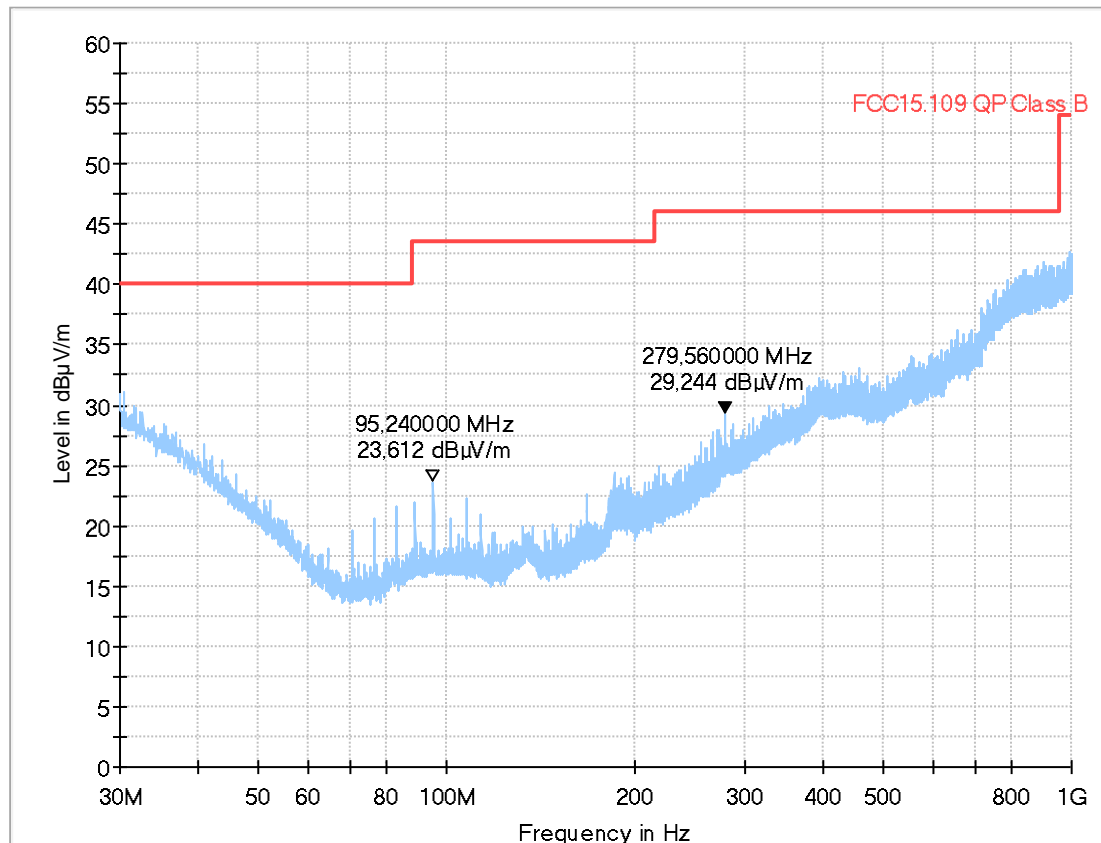
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1. Measurement diagrams

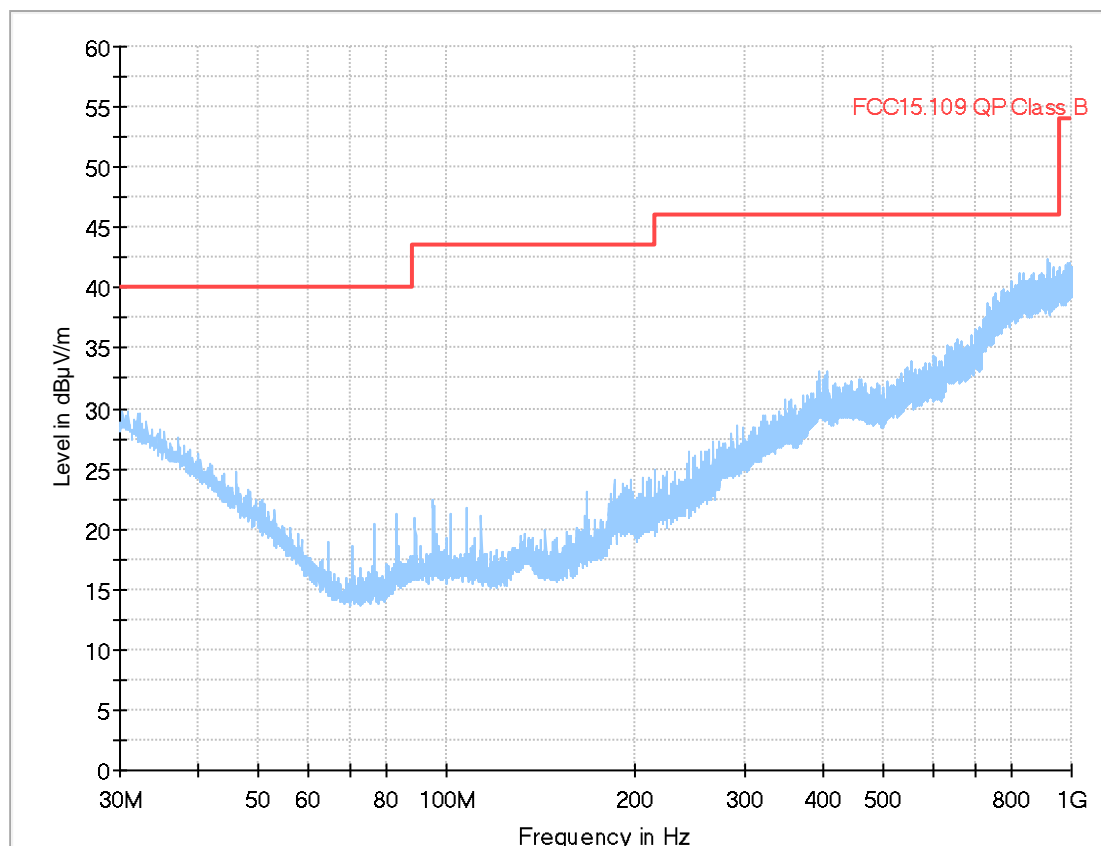
1.1. General Limit - Radiated field strength emissions, 30 MHz - 1 GHz 3.01a_laying_15B

| | |
|--------------------------|---|
| Test description: | 21.12.2018 Page 1 of 1 |
| Test site and distance: | Electric Field Strength Measurement |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Used filter: | EMC32 V9.25.0 |
| Technical Data: | not used |
| Test specification.: | please see page 2 for detailed data of measurement setup |
| Operation Mode | FCC 15.109 Class B; RSS-Gen. Issue 4 |
| Operator: | EUT power On + CAN Active/Running |
| Operating conditions: | Aho |
| Power during tests: | Humidity: 48%rH; Temperature: 20°C |
| Comments | 13,5 V DC |
| | AIVI 20 |



3.01b_standing_15B

| | |
|--------------------------|---|
| Test description: | 21.12.2018 Page 1 of 1 |
| Test site and distance: | Electric Field Strength Measurement |
| Version of Testsoftware: | Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance |
| Used filter: | EMC32 V9.25.0 |
| Technical Data: | not used |
| Test specification.: | please see page 2 for detailed data of measurement setup |
| Operation Mode | FCC 15.109 Class B; RSS-Gen. Issue 4 |
| Operator: | EUT power On + CAN Active/Running |
| Operating conditions: | Aho |
| Power during tests: | Humidity: 48%rH; Temperature: 20°C |
| Comments | 13,5 V DC |
| | AIVI 20 |



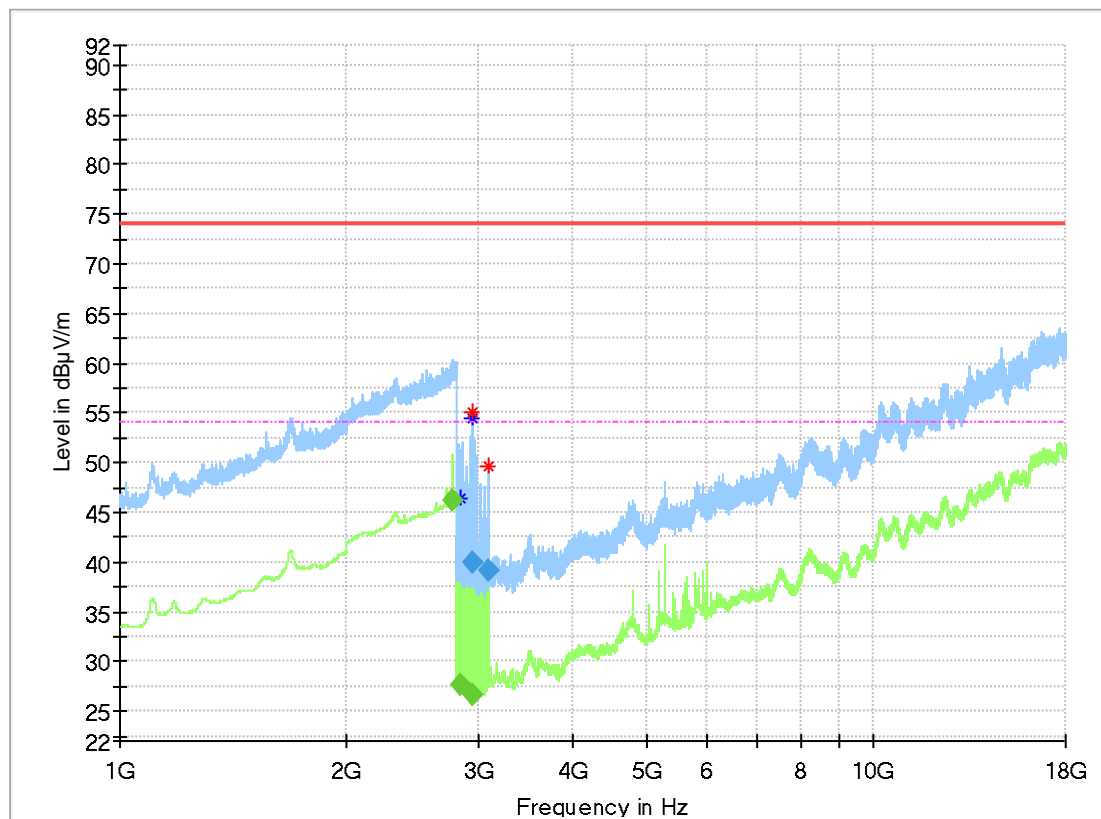
1.2. General Limit - Radiated field strength emissions, above 1 GHz

4.01a_FCC_15B_1ghz_18GHz

Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Filed Strength Emission |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Fully Anechoic Room (FAR) |
| Test Standard: | FCC Part 15.109, class B / RSS-Gen., Issue 4 |
| Operating Mode: | CAN Active_GPS_FM |
| Equipment Class: | Class B |
| Environmental Conditions: | Humidity: 44%rH; Temperature: 20°C |
| Operator | Mah |

Full Spectrum



Final Result

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Meas. Time (ms) | Pol | Azimuth (deg) | Elevation (deg) | Corr. (dB) |
|-----------------|------------------|----------------|-------------|-----------------|-----|---------------|-----------------|------------|
| 2770.100000 | 46.20 | 54.00 | 7.80 | 100.0 | H | 145.0 | 90.0 | 37.8 |
| 2831.380000 | 27.70 | 54.00 | 26.30 | 100.0 | V | 116.0 | 90.0 | -0.1 |
| 2946.220000 | 26.74 | 54.00 | 27.26 | 100.0 | V | 131.0 | 90.0 | -1.1 |
| 2946.540000 | --- | 74.00 | 34.13 | 100.0 | V | 98.0 | 90.0 | -1.1 |
| 3077.180000 | --- | 74.00 | 34.83 | 100.0 | H | 182.0 | 90.0 | -0.9 |

4.01b_FCC_15B_18-26GHz

Common Information

| | |
|---------------------------|--|
| Test Description: | Radiated Field Strength Emission |
| Test Site Location: | CETECOM GmbH Essen |
| Test Site: | Radio Lab 2 |
| Test Standard: | FCC Part 15.109, class B / RSS-Gen., Issue 4 |
| Operating Mode: | GPS RX, FM/AM RX , CAN |
| Equipment Class: | Class B |
| Environmental Conditions: | Humidity: 40%rH; Temperature: 19,7°C |
| Operator: | Mah |

Full Spectrum

