

**TEST REPORT****Nr. R20168501****Federal Communication Commission (FCC)**

|                                                                                                                                                                                                            |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b> .....                                                                                                                                                                          | R20168501                                                                                            |
| Date of issue: .....                                                                                                                                                                                       | 23.12.2020                                                                                           |
| Total number pages: .....                                                                                                                                                                                  | 178                                                                                                  |
| <b>Applicant's name</b> .....                                                                                                                                                                              | Texa S.p.A.                                                                                          |
| Address .....                                                                                                                                                                                              | Via 1° Maggio, 9 – 31050 Monastier di Treviso (TV) – Italy                                           |
| <b>Test specification:</b>                                                                                                                                                                                 |                                                                                                      |
| Standards .....                                                                                                                                                                                            | FCC Rules & Regulations, Title 47:2019<br>Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247 |
| Non-standard test method .....                                                                                                                                                                             | N/A                                                                                                  |
| <b>Test Report Form No.</b> .....                                                                                                                                                                          | 15-247_DTSCMC                                                                                        |
| Test Report Form(s) Originator ..                                                                                                                                                                          | CMC Centro Misure Compatibilità S.r.l.                                                               |
| Master TRF .....                                                                                                                                                                                           | 2020-10                                                                                              |
| <b>General disclaimer:</b>                                                                                                                                                                                 |                                                                                                      |
| The test results presented in this report relate only to the object tested.<br>This report shall not be reproduced, except in full, without the written approval of CMC Centro Misure Compatibilità S.r.l. |                                                                                                      |
| <b>Test item description</b> .....                                                                                                                                                                         | Vehicle communication interface                                                                      |
| Trademark .....                                                                                                                                                                                            | Texa                                                                                                 |
| Manufacturer .....                                                                                                                                                                                         | Texa S.p.A.                                                                                          |
| Model / Type reference .....                                                                                                                                                                               | Navigator TXT Multihub                                                                               |
| FCC ID .....                                                                                                                                                                                               | T8RTXT1MW                                                                                            |
| Rating(s) .....                                                                                                                                                                                            | 12-24 Vdc from vehicular battery                                                                     |
| <b>Report</b>                                                                                                                                                                                              |                                                                                                      |
| Tested by (name + signature) .....                                                                                                                                                                         | M. Segalla                                                                                           |
| Approved by (name + signature) .....                                                                                                                                                                       | R. Beghetto                                                                                          |



## 1 Summary

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|                                                                                                                                                    |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>2 Reference standard</b>                                                                                                                        |    |
| FCC Rules and Regulation Title 47 part 15:2019                                                                                                     | -- |
| <b>3 List of attachments</b>                                                                                                                       |    |
| Attachment 1: Instruments list, measurement uncertainty, judgement of compliance and quality manual references                                     |    |
| <b>4 Deviation(s) from test specification</b>                                                                                                      |    |
| None                                                                                                                                               |    |
| <b>5 Testing location</b>                                                                                                                          |    |
| CMC Centro Misure Compatibilità S.r.l.<br>Via della Fisica, 20 – 36016 Thiene (VI) – Italy<br>Test site facility's FCC registration number: 182474 |    |

| Revision index | Date       | Change history |
|----------------|------------|----------------|
| 1.0            | 23.12.2020 | --             |



|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing and sampling:</b>                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |
| Date of receipt of test item .....                                                                                                                                                                                                                                                                                | 23.07.2020                                                                                                                                                                             |
| Testing start date .....                                                                                                                                                                                                                                                                                          | 17.09.2020                                                                                                                                                                             |
| Testing end date .....                                                                                                                                                                                                                                                                                            | 23.12.2020                                                                                                                                                                             |
| Sampling procedure.....                                                                                                                                                                                                                                                                                           | Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion.<br>The results relate to the sample as it has been received. |
| Internal identification .....                                                                                                                                                                                                                                                                                     | Adhesive label with the product number P200752                                                                                                                                         |
| <b>General remarks:</b>                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |
| This report shall not be reproduced, except in full, without the written approval of CMC.<br>The test results presented in this report relate only to the object tested.<br>“(see appended table)”: refers to a table appended to the report.<br>Throughout this report a comma is used as the decimal separator. |                                                                                                                                                                                        |
| <b>Possible test case verdicts:</b>                                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |
| Test case does not apply to the test object:                                                                                                                                                                                                                                                                      | N/A (Not Applicable)                                                                                                                                                                   |
| Test object does meet the requirement:                                                                                                                                                                                                                                                                            | P (Pass)                                                                                                                                                                               |
| Test object does not meet the requirement:                                                                                                                                                                                                                                                                        | F (Fail)                                                                                                                                                                               |
| Test object does not performed:                                                                                                                                                                                                                                                                                   | N/E (Not Executed)                                                                                                                                                                     |
| <b>Definition of symbols used in this test report:</b>                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> Indicates that the listed condition, standard or equipment is applicable for this report.                                                                                                                                                                                     |                                                                                                                                                                                        |
| <input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.                                                                                                                                                                                            |                                                                                                                                                                                        |

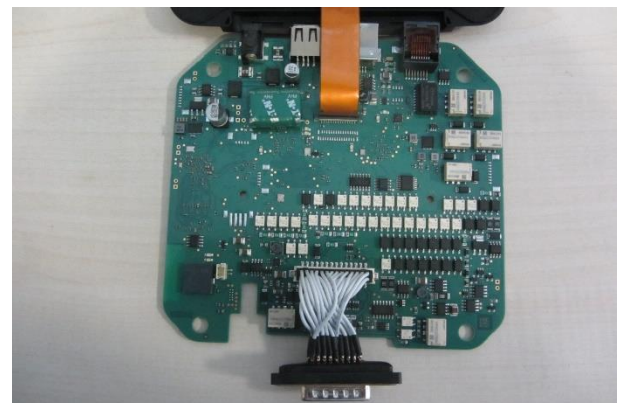


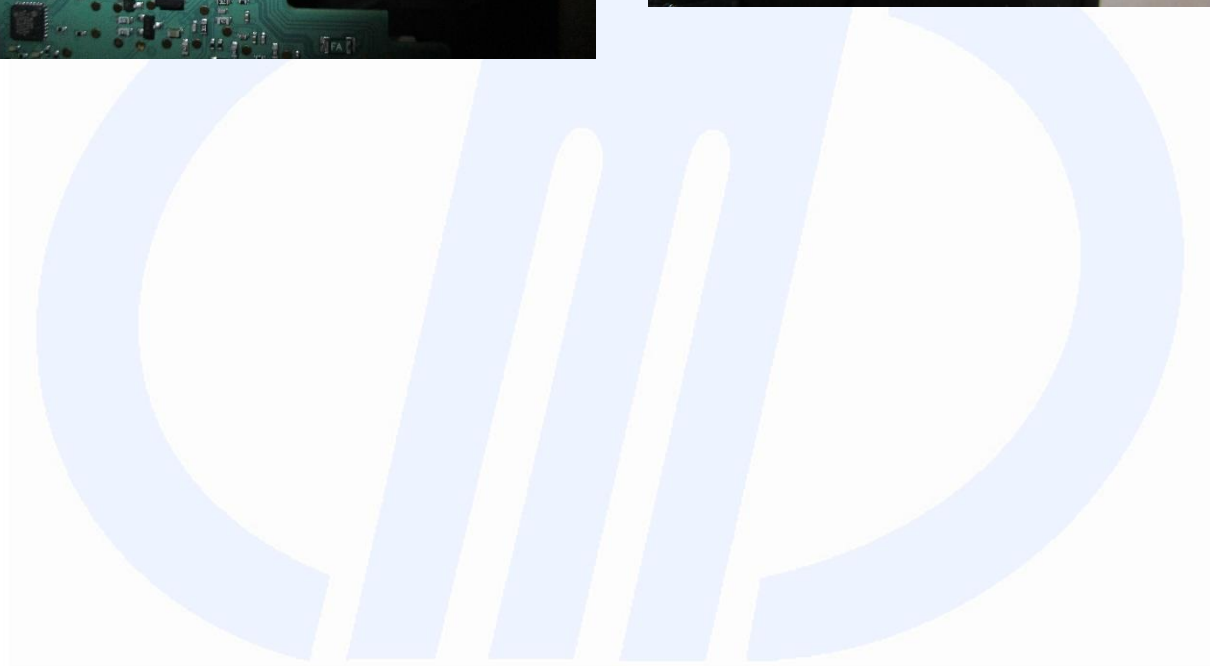
## 6 General description of test item(s)

|                           |                                     |                                                            |                           |                          |                           |                          |                          |
|---------------------------|-------------------------------------|------------------------------------------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| Description .....         | Vehicle communication interface     |                                                            |                           |                          |                           |                          |                          |
| Model Number .....        | Navigator TXT Multihub              |                                                            |                           |                          |                           |                          |                          |
| FCC ID .....              | T8RTXT1MW                           |                                                            |                           |                          |                           |                          |                          |
| Serial Number .....       | --                                  |                                                            |                           |                          |                           |                          |                          |
| Brand name .....          | Texa                                |                                                            |                           |                          |                           |                          |                          |
| Frequency band .....      | 2400 – 2483,5 MHz                   |                                                            |                           |                          |                           |                          |                          |
| Nominal frequencies ..... | F <sub>L</sub> : 2412 MHz           |                                                            | F <sub>M</sub> : 2437 MHz |                          | F <sub>H</sub> : 2462 MHz |                          |                          |
| Rated power supply .....  | Voltage and Frequency               |                                                            |                           | Reference poles          |                           |                          |                          |
|                           |                                     |                                                            | N                         | L1                       | L2                        | L3                       | PE                       |
|                           | <input type="checkbox"/>            | AC:                                                        | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> |
|                           | <input type="checkbox"/>            | AC:                                                        | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> |
|                           | <input checked="" type="checkbox"/> | DC: 12 V from vehicular battery                            |                           |                          |                           |                          | <input type="checkbox"/> |
| Software version .....    | 1.0.0.28                            |                                                            |                           |                          |                           |                          |                          |
| Test configuration .....  | <input checked="" type="checkbox"/> | Table top equipment                                        |                           |                          |                           |                          |                          |
|                           | <input type="checkbox"/>            | Floor standing equipment                                   |                           |                          |                           |                          |                          |
|                           | <input type="checkbox"/>            | Hand-held equipment                                        |                           |                          |                           |                          |                          |
| Type of equipment .....   | <input checked="" type="checkbox"/> | Transmitter unit                                           |                           |                          |                           |                          |                          |
|                           | <input checked="" type="checkbox"/> | Receiver unit                                              |                           |                          |                           |                          |                          |
| Type of station .....     | <input type="checkbox"/>            | Fixed station                                              |                           |                          |                           |                          |                          |
|                           | <input type="checkbox"/>            | Portable station                                           |                           |                          |                           |                          |                          |
|                           | <input checked="" type="checkbox"/> | Mobile station                                             |                           |                          |                           |                          |                          |
| Operating modes .....     | No.                                 | Operating mode of test item                                |                           |                          |                           |                          |                          |
|                           | 1                                   | EUT in continuous transmission at maximum power, WiFi mode |                           |                          |                           |                          |                          |



## 6.1 Photos of the test item







## 7 Verdict summary section

| FCC Rules & Regulations, Title 47:2019<br>Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247 |                                                                             |                |                |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|----------------|
| Clause                                                                                               | Requirement – Test case                                                     | Basic standard | Verdict        |
| Part 15.203                                                                                          | Antenna requirements                                                        | --             | <b>P</b>       |
| Part 15.207                                                                                          | Conducted emissions                                                         | ANSI C63.10    | <b>N/A (+)</b> |
| Part 15.209                                                                                          | Emissions in restricted frequency bands and in unrestricted frequency bands | ANSI C63.10    | <b>P</b>       |
| Part 15.247 (a) (2)                                                                                  | DTS bandwidth                                                               | ANSI C63.10    | <b>P</b>       |
| Part 15.215 (c)                                                                                      | 20 dB bandwidth                                                             | ANSI C63.10    | <b>P</b>       |
| Part 15.247 (d)                                                                                      | Band edge                                                                   | ANSI C63.10    | <b>P</b>       |
| Part 15.209 and 15.247                                                                               | Fundamental emission output power                                           | ANSI C63.10    | <b>P</b>       |
| Part 15.209 and 15.247                                                                               | Maximum power spectral density level in the fundamental emission            | ANSI C63.10    | <b>P</b>       |

(+) Devices which only employ battery power. See FCC Part 15.207 (c)



| Normative references                           |                                                                                                                                                                                          |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference no.                                  | Description                                                                                                                                                                              |
| FCC Rules and Regulation Title 47 part 15:2019 | --                                                                                                                                                                                       |
| KDB 558074 D01 15.247 Meas Guidance v05r02     | Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules |
| ANSI C63.4:2014                                | American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz                         |
| ANSI C63.10:2013                               | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                                           |



## 8 Test conditions

### 8.1 General

|                                          |                                                                                                                                                                                                                                 |                 |                             |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|
| Environmental reference conditions.....: | The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.<br>The climatic conditions during the tests were within the following limits: |                 |                             |
|                                          | <b>Temperature</b>                                                                                                                                                                                                              | <b>Humidity</b> | <b>Atmospheric pressure</b> |
|                                          | 15 °C – 35 °C                                                                                                                                                                                                                   | 30 % - 60 %     | 800 hPa – 1060 hPa          |
|                                          | If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.                                                                        |                 |                             |
| Measurement uncertainties .....          | Attachment 1                                                                                                                                                                                                                    |                 |                             |



## 9 Test results

### 9.1 Antenna requirements

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Tested by .....                     | M. Segalla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
| Test date .....                     | 17.09.2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
| Reference standards .....           | FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |
| Test specification .....            | <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded</p> |                  |
| Antenna type.....                   | <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Integral antenna |
|                                     | <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | External antenna |
| Antenna gain.....                   | 0 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| External R.F. power amplifier ..... | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |



## 9.2 Emissions in restricted frequency bands and in unrestricted frequency bands

|                                             |                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tested by .....                             | M. Segalla                                                                                                                                                                                                                                                                                                                                           |
| Test date .....                             | 17.09.2020                                                                                                                                                                                                                                                                                                                                           |
| Test location (stand) .....                 | Semi-anechoic chamber (CMC A070)                                                                                                                                                                                                                                                                                                                     |
| Reference standards .....                   | FCC Rules and Regulation; Titles 47 Part. 15.209<br>ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6                                                                                                                                                                                                                                                            |
| Test set-up description .....               | <input checked="" type="checkbox"/> Table top equipment set-up (80 cm above the reference ground plane)<br><input type="checkbox"/> Floor standing equipment set-up (insulating material up to 12 mm thick)<br><input type="checkbox"/> False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane) |
| Supplementary test set-up description ..... | --                                                                                                                                                                                                                                                                                                                                                   |
| Test method applied .....                   | <input checked="" type="checkbox"/> SAC with measurement distance [m]: 10                                                                                                                                                                                                                                                                            |
| Supplementary information .....             | --                                                                                                                                                                                                                                                                                                                                                   |

### Acceptance limits

| <b>Acceptance limits for emissions in restricted frequency bands (<math>f &lt; 1000</math> MHz)</b> |                   |                         |
|-----------------------------------------------------------------------------------------------------|-------------------|-------------------------|
| Frequency range (MHz)                                                                               | Test distance (m) | Limits [dB( $\mu$ V/m)] |
| 0,009 to 0,490                                                                                      | 300               | 48,5 to 13,8            |
| 0,490 to 1,705                                                                                      | 30                | 33,8 to 22,9            |
| 1,705 to 30                                                                                         | 30                | 29,5                    |
| 30 to 88                                                                                            | 3                 | 40                      |
| 88 to 216                                                                                           | 3                 | 43,5                    |
| 216 to 960                                                                                          | 3                 | 46,0                    |
| 960 to 1000                                                                                         | 3                 | 54                      |

**Remarks:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz and 110–490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

| <b>Acceptance limits for emissions in restricted frequency bands (<math>f \geq 1000</math> MHz)</b> |                   |                            |                              |
|-----------------------------------------------------------------------------------------------------|-------------------|----------------------------|------------------------------|
| Frequency (MHz)                                                                                     | Test distance (m) | AV limits [dB( $\mu$ V/m)] | Peak limits [dB( $\mu$ V/m)] |
| > 1000                                                                                              | 3                 | 54                         | 74                           |



The restricted frequency bands are listed in the following table

| MHz                 | MHz                   | MHz             | GHz           |
|---------------------|-----------------------|-----------------|---------------|
| 0,090 – 0,110       | 16,42 – 16,423        | 399,9 – 410     | 4,5 – 5,15    |
| 0,495 – 0,505       | 16,69475 – 16,69525   | 608 – 614       | 5,35 – 5,46   |
| 2,1735 – 2,1905     | 16,80425 – 16,80475   | 960 – 1240      | 7,25 – 7,75   |
| 4,125 – 4,128       | 25,5 – 25,67          | 1300 – 1427     | 8,025 – 8,5   |
| 4,17725 – 4,17775   | 37,5 – 38,25          | 1435 – 1626,5   | 9,0 – 9,2     |
| 4,20725 – 4,20775   | 73 – 74,6             | 1645,5 – 1646,5 | 9,3 – 9,5     |
| 6,215 – 6,218       | 74,8 – 75,2           | 1660 – 1710     | 10,6 – 12,7   |
| 6,26775 – 6,26825   | 108 – 121,94          | 1718,8 – 1722,2 | 13,25 – 13,4  |
| 6,31175 – 6,31225   | 123 – 138             | 2200 – 2300     | 14,47 – 14,5  |
| 8,291 – 8,294       | 149,9 – 150,05        | 2310 – 2390     | 15,35 – 16,2  |
| 8,362 – 8,366       | 156,52475 – 156,52525 | 2483,5 – 2500   | 17,7 – 21,4   |
| 8,37625 – 8,38675   | 156,7 – 156,9         | 2690 – 2900     | 22,01 – 23,12 |
| 8,41425 – 8,41475   | 162,0125 – 167,17     | 3260 – 3267     | 23,6 – 24,0   |
| 12,29 – 12,293      | 167,72 – 173,2        | 3332 – 3339     | 31,2 – 31,8   |
| 12,51975 – 12,52025 | 240 – 285             | 3345,8 – 3358   | 36,43 – 36,5  |
| 12,57675 – 12,57725 | 322 – 335,4           | 3600 – 4400     | Above 38,6    |
| 13,36 – 13,41       |                       |                 |               |

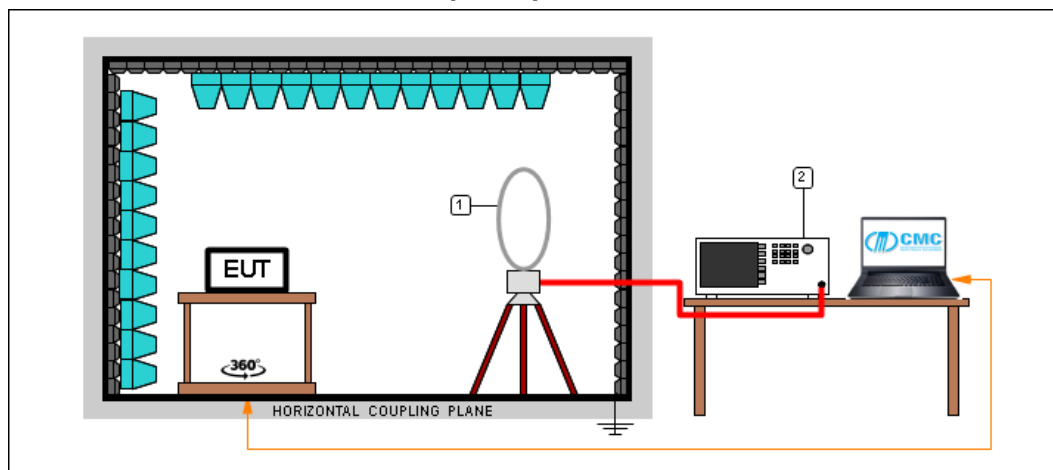
**Acceptance limits for emissions in non-restricted frequency bands (according to ANSI C63.10 cl. 11.11.1)**

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz
- If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.
- In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

## Test setup

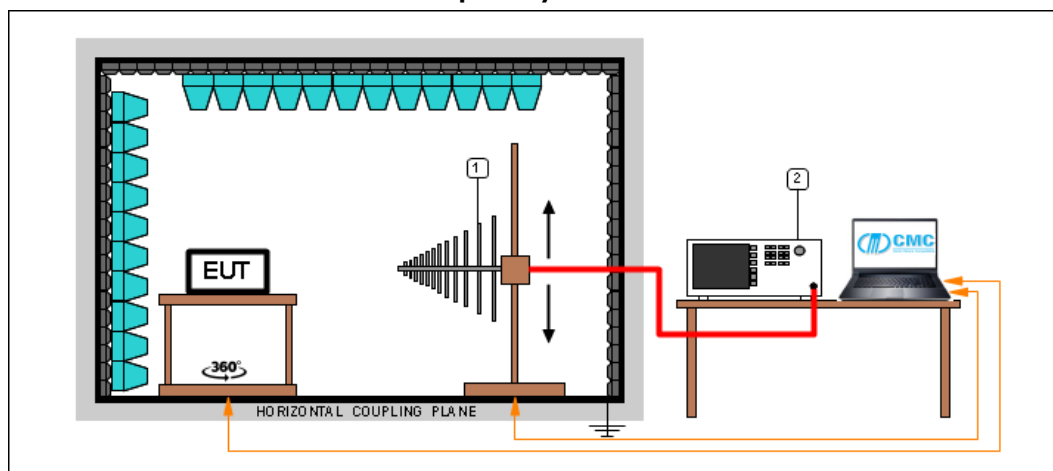
### Frequency $\leq 30$ MHz



#### Test setup PE004\_01

| Nr. | Id. Number | Manufacturer    | Model   | Description               |
|-----|------------|-----------------|---------|---------------------------|
| 2   | CMC S164   | Rohde & Schwarz | ESU26   | Receiver 20 Hz - 26.5 GHz |
| 1   | CMC S127   | Schaffner       | HLA6120 | Loop Antenna 9kHz - 30MHz |

### Frequency $\leq 1$ GHz



#### Test setup PE004\_02

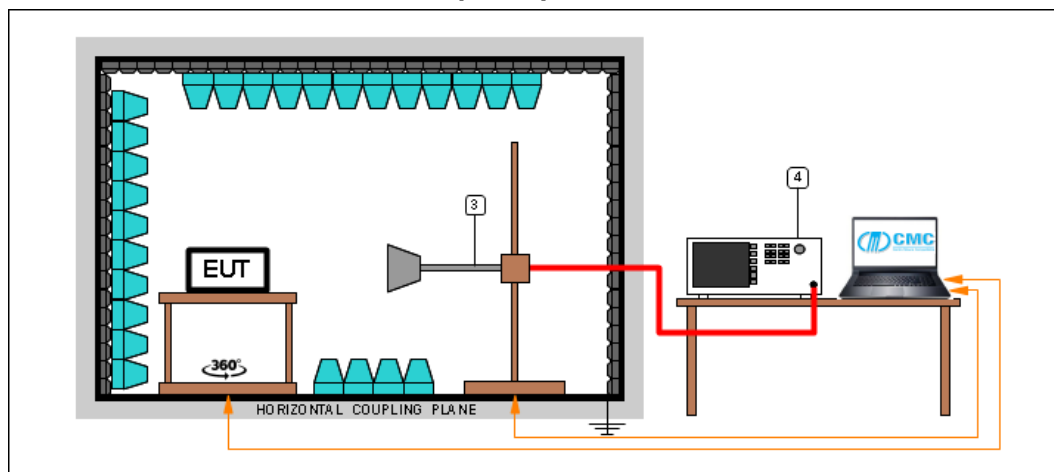
| Nr. | Id. Number | Manufacturer    | Model                | Description               |
|-----|------------|-----------------|----------------------|---------------------------|
| 2   | CMC S164   | Rohde & Schwarz | ESU26                | Receiver 20 Hz - 26.5 GHz |
| 1   | CMC S271   | Schwarzbeck     | BBA 9106 + VHBB 9124 | Broadband Antenna         |

#### Test setup PE004\_03

| Nr. | Id. Number | Manufacturer    | Model       | Description               |
|-----|------------|-----------------|-------------|---------------------------|
| 2   | CMC S164   | Rohde & Schwarz | ESU26       | Receiver 20 Hz - 26.5 GHz |
| 1   | CMC S287   | Schwarzbeck     | VUSLP 9111B | Broadband Antenna         |



### Frequency > 1 GHz



Test setup PE004\_04

| Nr. | Id. Number | Manufacturer    | Model | Description               |
|-----|------------|-----------------|-------|---------------------------|
| 4   | CMC S164   | Rohde & Schwarz | ESU26 | Receiver 20 Hz - 26.5 GHz |
| 3   | CMC S108   | Emco            | 3115  | Waveguide antenna         |

Test setup PE004\_05

| Nr. | Id. Number | Manufacturer    | Model     | Description               |
|-----|------------|-----------------|-----------|---------------------------|
| 4   | CMC S164   | Rohde & Schwarz | ESU26     | Receiver 20 Hz - 26.5 GHz |
| 3   | CMC S290   | Schwarzbeck     | BBHA 9170 | Horn Antenna (15-40 GHz)  |



### Result – WiFi mode N (MCS0)

| Transmission frequency (MHz) | Polarization | Frequency Range (MHz) | Graphs    | Result |
|------------------------------|--------------|-----------------------|-----------|--------|
| 2412                         | H            | 1000 – 3000           | G20168505 | P      |
| 2412                         | V            | 1000 – 3000           | G20168506 | P      |
| 2437                         | V            | 1000 – 3000           | G20168507 | P      |
| 2437                         | H            | 1000 – 3000           | G20168508 | P      |
| 2462                         | H            | 1000 – 3000           | G20168509 | P      |
| 2462                         | V            | 1000 – 3000           | G20168510 | P      |
| 2462                         | V            | 3000 – 18000          | G20168511 | P      |
| 2462                         | H            | 3000 – 18000          | G20168512 | P      |
| 2437                         | H            | 3000 – 18000          | G20168513 | P      |
| 2437                         | V            | 3000 – 18000          | G20168514 | P      |
| 2412                         | V            | 3000 – 18000          | G20168515 | P      |
| 2412                         | H            | 3000 – 18000          | G20168516 | P      |
| Worst case                   | H            | 30 – 300              | G20168517 | P      |
| Worst case                   | V            | 30 – 300              | G20168518 | P      |
| Worst case                   | V            | 300 – 1000            | G20168519 | P      |
| Worst case                   | H            | 300 – 1000            | G20168520 | P      |
| Worst case                   | Loop         | 0,009 – 30            | G20168521 | P      |
| Worst case                   | H            | 18000 – 26000         | G20168522 | P      |
| Worst case                   | V            | 18000 – 26000         | G20168523 | P      |

**Remarks:** EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels.

Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $40\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $20\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies

#### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a X



## Result – WiFi mode G

| Transmission frequency (MHz) | Polarization | Frequency Range (MHz) | Graphs    | Result |
|------------------------------|--------------|-----------------------|-----------|--------|
| 2412                         | H            | 1000 – 3000           | G20168559 | P      |
| 2412                         | V            | 1000 – 3000           | G20168560 | P      |
| 2437                         | H            | 1000 – 3000           | G20168561 | P      |
| 2437                         | V            | 1000 – 3000           | G20168562 | P      |
| 2462                         | H            | 1000 – 3000           | G20168563 | P      |
| 2462                         | V            | 1000 – 3000           | G20168564 | P      |
| 2462                         | H            | 3000 – 18000          | G20168565 | P      |
| 2462                         | V            | 3000 – 18000          | G20168566 | P      |
| Worst case                   | V            | 30 – 300              | G20168582 | P      |
| Worst case                   | H            | 30 – 300              | G20168583 | P      |
| Worst case                   | H            | 300 – 1000            | G20168584 | P      |
| Worst case                   | V            | 300 – 1000            | G20168585 | P      |
| Worst case                   | Loop         | 0,009 – 30            | G20168586 | P      |
| 2437                         | V            | 3000 – 18000          | G20168587 | P      |
| 2437                         | H            | 3000 – 18000          | G20168588 | P      |
| 2412                         | H            | 3000 – 18000          | G20168589 | P      |
| 2412                         | V            | 3000 – 18000          | G20168590 | P      |
| Worst case                   | H            | 18000 – 26000         | G20168592 | P      |
| Worst case                   | V            | 18000 – 26000         | G20168593 | P      |

**Remarks:** EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels.

Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $40\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $20\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies

### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a X



## Result – WiFi mode B

| Transmission frequency (MHz) | Polarization | Frequency Range (MHz) | Graphs     | Result |
|------------------------------|--------------|-----------------------|------------|--------|
| 2412                         | H            | 3000 – 18000          | G20168541  | P      |
| 2412                         | V            | 3000 – 18000          | G20168542  | P      |
| 2437                         | H            | 3000 – 18000          | G20168543  | P      |
| 2437                         | V            | 3000 – 18000          | G20168544  | P      |
| 2462                         | H            | 3000 – 18000          | G20168545  | P      |
| 2462                         | V            | 3000 – 18000          | G20168546  | P      |
| 2462                         | H            | 1000 – 3000           | G20168547  | P      |
| 2462                         | V            | 1000 – 3000           | G20168548  | P      |
| 2437                         | H            | 1000 – 3000           | G20168549  | P      |
| 2437                         | V            | 1000 – 3000           | G20168550  | P      |
| 2412                         | H            | 1000 – 3000           | G20168551  | P      |
| 2412                         | V            | 1000 – 3000           | G20168552  | P      |
| Worst case                   | Loop         | 0,009 – 30            | G201685A16 | P      |
| Worst case                   | V            | 30 – 300              | G201685A17 | P      |
| Worst case                   | H            | 30 – 300              | G201685A18 | P      |
| Worst case                   | H            | 300 – 1000            | G201685A19 | P      |
| Worst case                   | V            | 300 – 1000            | G201685A20 | P      |
| Worst case                   | V            | 18000 – 26000         | G201685A22 | P      |
| Worst case                   | H            | 18000 – 26000         | G201685A23 | P      |

**Remarks:** EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels.

Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $40\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor  $20\log(\text{test distance}/10)$  based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies

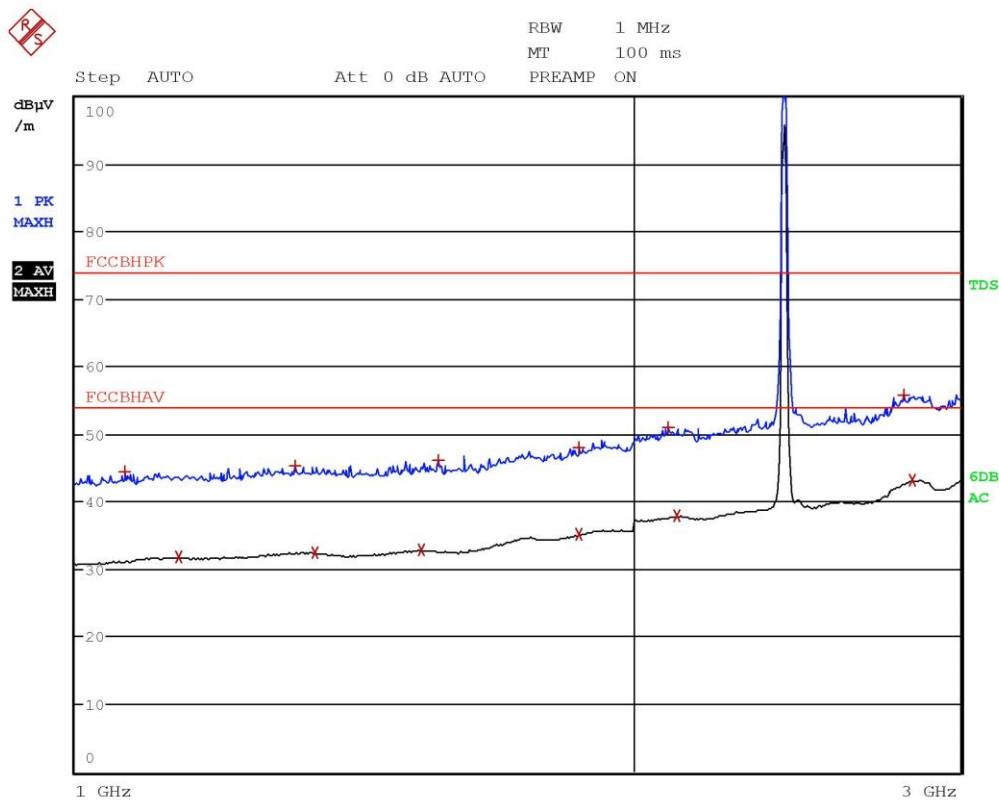
### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a X



## Graphs

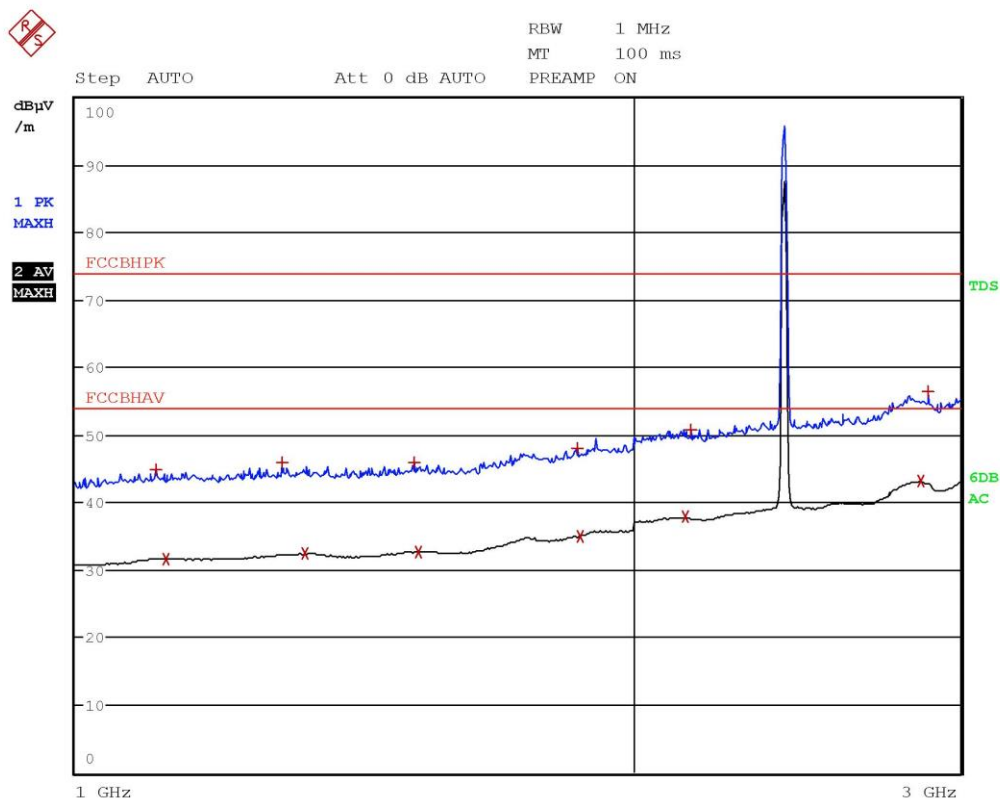


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| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.0624 GHz | 44.40        | -29.58         |
| 2 Average                        | 1.1376 GHz | 31.74        | -22.23         |
| 1 Max Peak                       | 1.3128 GHz | 45.30        | -28.67         |
| 2 Average                        | 1.346 GHz  | 32.49        | -21.48         |
| 2 Average                        | 1.5352 GHz | 32.83        | -21.14         |
| 1 Max Peak                       | 1.5696 GHz | 46.02        | -27.95         |
| 1 Max Peak                       | 1.8664 GHz | 47.95        | -26.03         |
| 2 Average                        | 1.8688 GHz | 35.17        | -18.80         |
| 1 Max Peak                       | 2.0868 GHz | 50.84        | -23.13         |
| 2 Average                        | 2.1088 GHz | 37.83        | -16.14         |
| 1 Max Peak                       | 2.7952 GHz | 55.81        | -18.16         |
| 2 Average                        | 2.8236 GHz | 43.20        | -10.77         |

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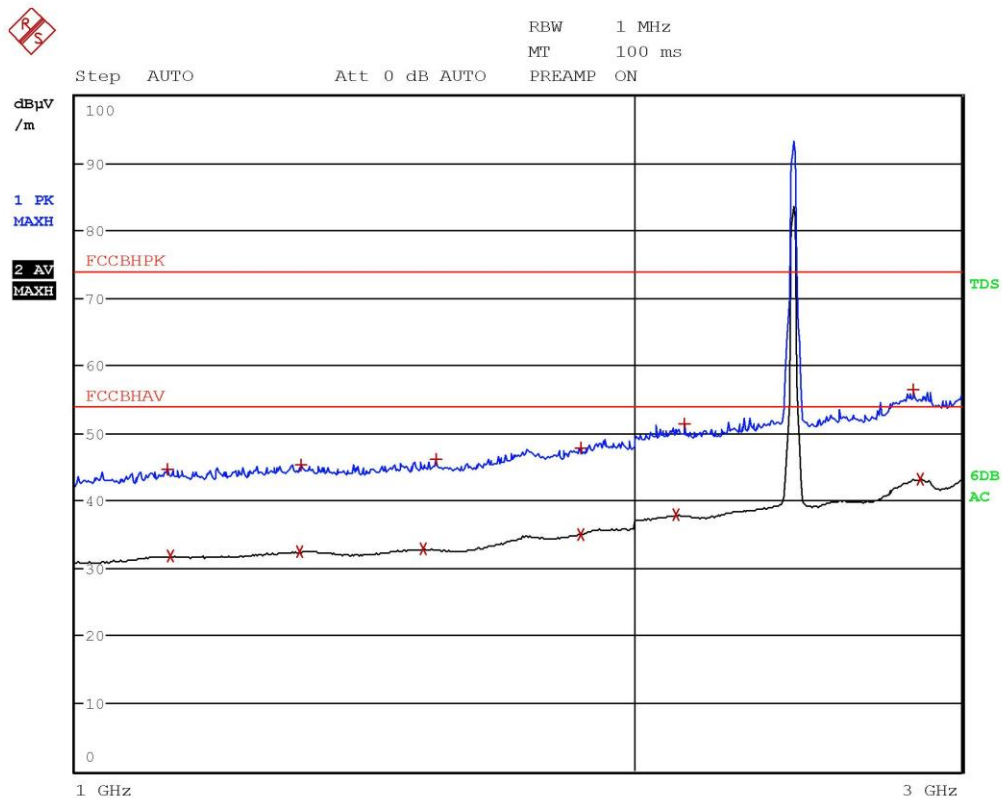


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| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.1048 GHz | 44.89        | -29.08         |
| 2 Average                        | 1.1196 GHz | 31.71        | -22.27         |
| 1 Max Peak                       | 1.2932 GHz | 45.93        | -28.04         |
| 2 Average                        | 1.3304 GHz | 32.48        | -21.49         |
| 1 Max Peak                       | 1.522 GHz  | 45.83        | -28.14         |
| 2 Average                        | 1.5304 GHz | 32.76        | -21.21         |
| 1 Max Peak                       | 1.8644 GHz | 47.97        | -26.00         |
| 2 Average                        | 1.8708 GHz | 35.04        | -18.93         |
| 2 Average                        | 2.13 GHz   | 37.81        | -16.16         |
| 1 Max Peak                       | 2.148 GHz  | 50.72        | -23.25         |
| 2 Average                        | 2.8536 GHz | 43.17        | -10.81         |
| 1 Max Peak                       | 2.8828 GHz | 56.34        | -17.63         |

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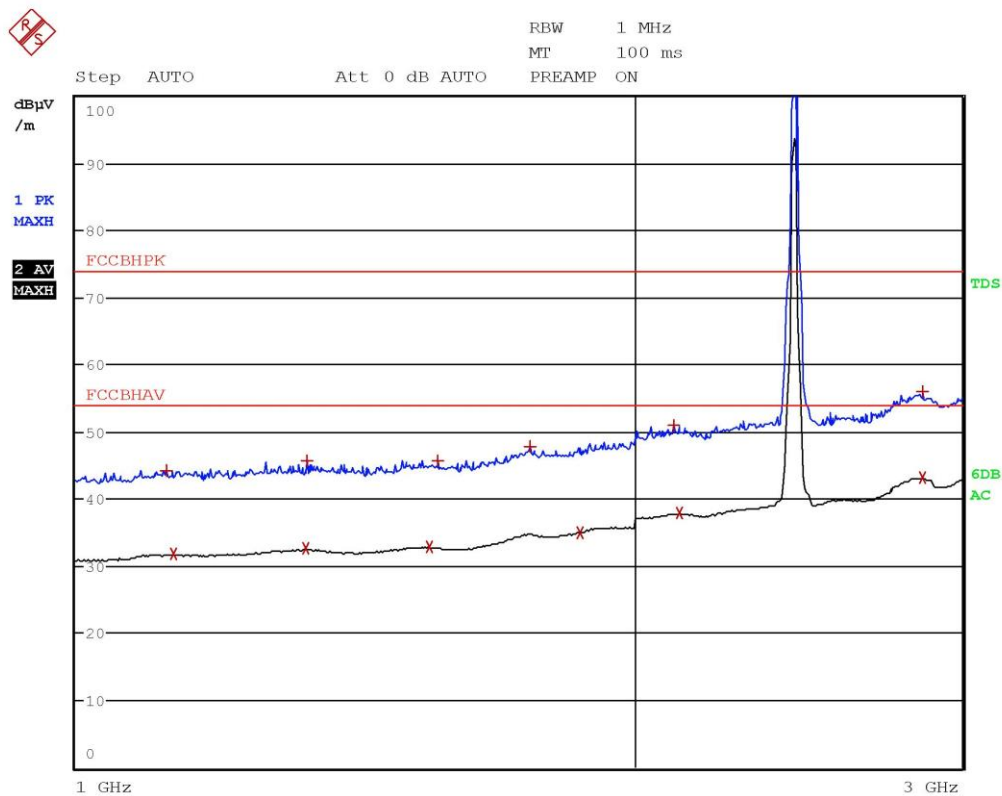


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| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.1216 GHz | 44.56        | -29.41         |
| 2 Average                        | 1.1252 GHz | 31.82        | -22.16         |
| 2 Average                        | 1.32 GHz   | 32.48        | -21.49         |
| 1 Max Peak                       | 1.3224 GHz | 45.17        | -28.80         |
| 2 Average                        | 1.5376 GHz | 32.83        | -21.14         |
| 1 Max Peak                       | 1.5624 GHz | 46.04        | -27.93         |
| 1 Max Peak                       | 1.8696 GHz | 47.81        | -26.16         |
| 2 Average                        | 1.8724 GHz | 35.01        | -18.96         |
| 2 Average                        | 2.1052 GHz | 37.84        | -16.13         |
| 1 Max Peak                       | 2.1292 GHz | 51.37        | -22.60         |
| 1 Max Peak                       | 2.8232 GHz | 56.31        | -17.66         |
| 2 Average                        | 2.8516 GHz | 43.19        | -10.78         |

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