

**TEST REPORT****Nr. R20168801****Federal Communication Commission (FCC)**

|                                                                                                                                                                                                            |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b> .....                                                                                                                                                                          | R20168801                                                                                            |
| Date of issue: .....                                                                                                                                                                                       | 01.10.2020                                                                                           |
| Total number pages: .....                                                                                                                                                                                  | 193                                                                                                  |
| <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_HoppingCMC                                                                                    |
| 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            | 01.10.2020 | --             |



|                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing and sampling:</b>                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                            |
| Date of receipt of test item .....                                                                                                                                                                                                                                                                                                   | 23.07.2020                                                                                                                                                                                 |
| Testing start date .....                                                                                                                                                                                                                                                                                                             | 25.09.2020                                                                                                                                                                                 |
| Testing end date .....                                                                                                                                                                                                                                                                                                               | 29.09.2020                                                                                                                                                                                 |
| Sampling procedure.....                                                                                                                                                                                                                                                                                                              | Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion.<br><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>                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                            |
| <p>This report shall not be reproduced, except in full, without the written approval of CMC.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>“(see appended table)”: refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> |                                                                                                                                                                                            |
| <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.<br><input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.                                                                              |                                                                                                                                                                                            |

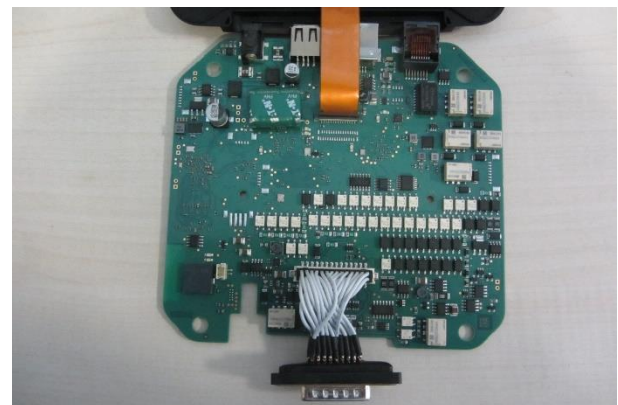


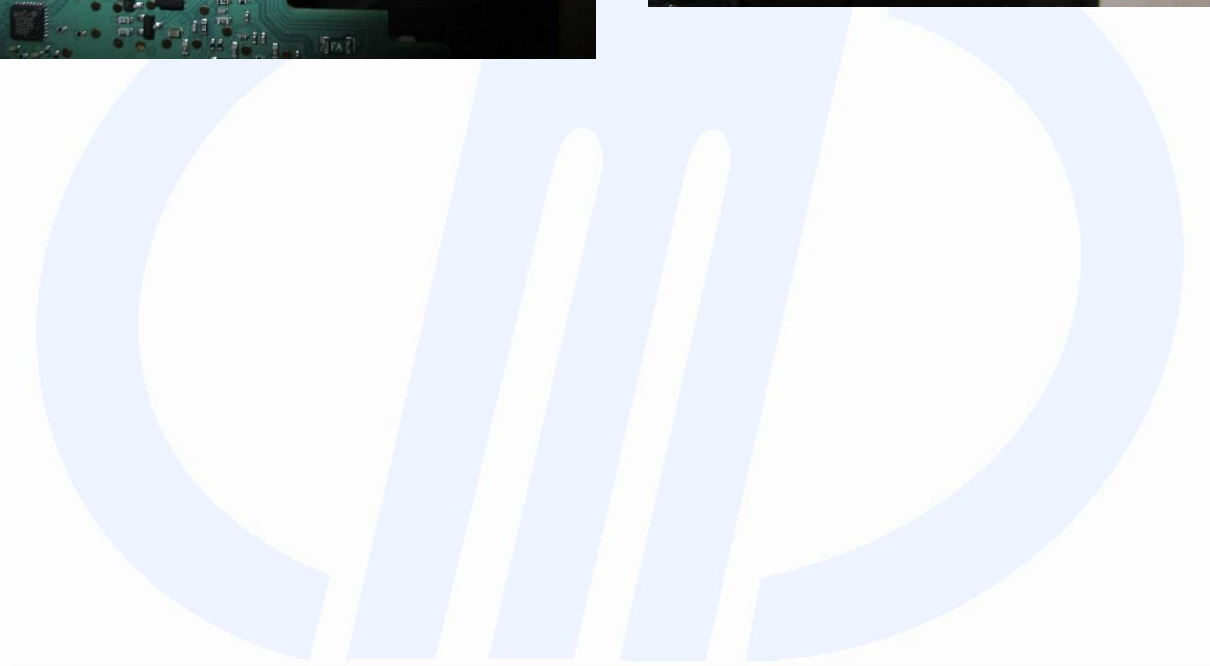
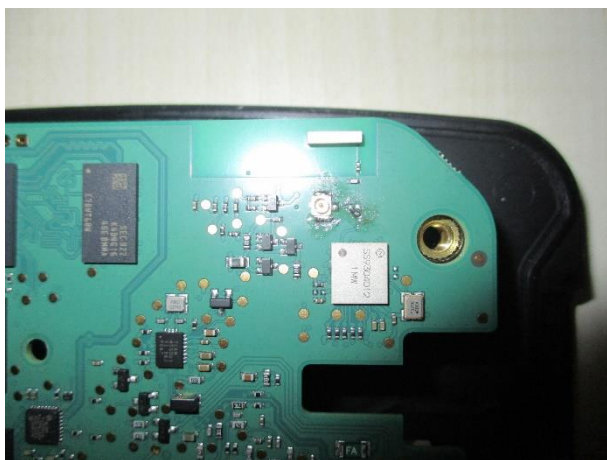
## 6 General description of test item(s)

|                           |                                     |                                                                                                      |                           |                          |                           |                          |                          |
|---------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| 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> : 2402 MHz           |                                                                                                      | F <sub>M</sub> : 2441 MHz |                          | F <sub>H</sub> : 2480 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, Bluetooth mode at 3 modulations, DH5, 2DH5 and 3DH5 |                           |                          |                           |                          |                          |



## 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 15.247 (a) (1)                                                                                  | Pseudo randomly ordered list of hopping frequencies | --             | <b>P</b>       |
| Part 15.203                                                                                          | Antenna requirements                                | ANSI C63.10    | <b>P</b>       |
| Part 15.207                                                                                          | Conducted emissions                                 | ANSI C63.10    | <b>N/A (+)</b> |
| Part 15.209                                                                                          | Radiated emissions and spurious emission            | ANSI C63.10    | <b>P</b>       |
| Part 15.247                                                                                          | 20 dB Bandwidth                                     | ANSI C63.10    | <b>P</b>       |
| Part 15.247                                                                                          | Channel Separation                                  | ANSI C63.10    | <b>P</b>       |
| Part 15.247                                                                                          | Number of Hopping Channel                           | ANSI C63.10    | <b>P</b>       |
| Part 15.247                                                                                          | Time of occupancy                                   | ANSI C63.10    | <b>P</b>       |
| Part 15.247                                                                                          | Band edge                                           | ANSI C63.10    | <b>P</b>       |
| Part 15.209 and 15.247                                                                               | Peak Output Power                                   | 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 .....                     | 23.07.2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
| 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 .....                             | 28.09.2020                                                                                                                                                                                                                                                                                                                                           |
| 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

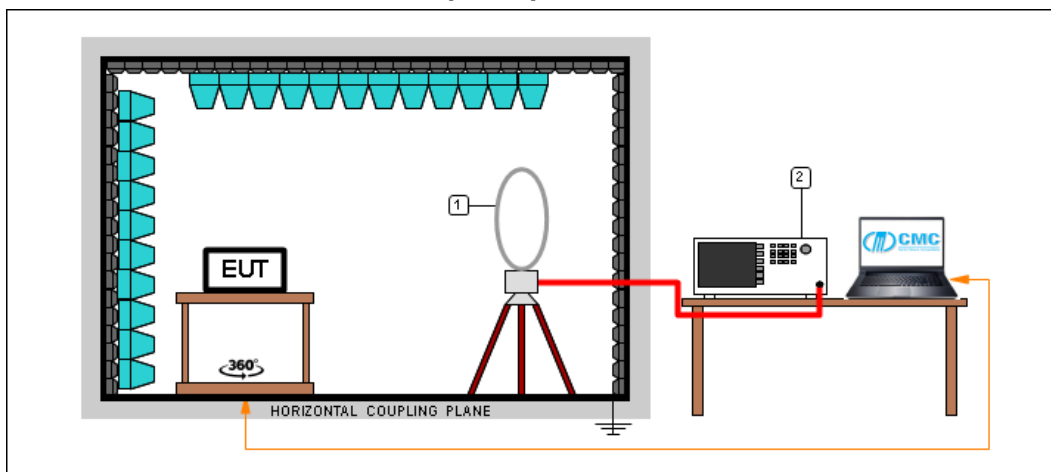
| MHz                 | MHz                   | MHz             | GHz           |
|---------------------|-----------------------|-----------------|---------------|
| 0,090 – 0,110       | 16,42 – 16,423        | 399,9 – 410     | 4,5 – 5,15    |
| 0,495 – 0,505       | 16,69475 – 16,69525   | 608 – 614       | 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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

## Test setup

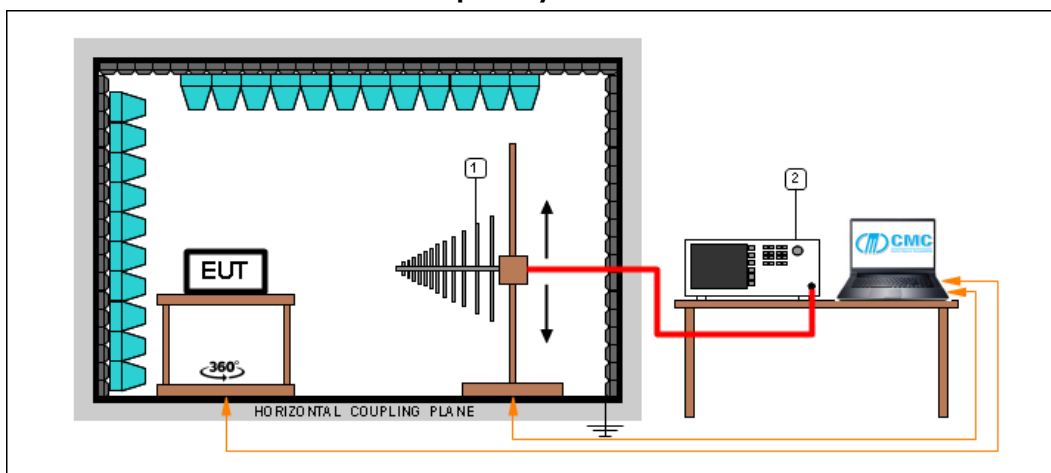
### Frequency $\leq 30$ MHz



#### 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



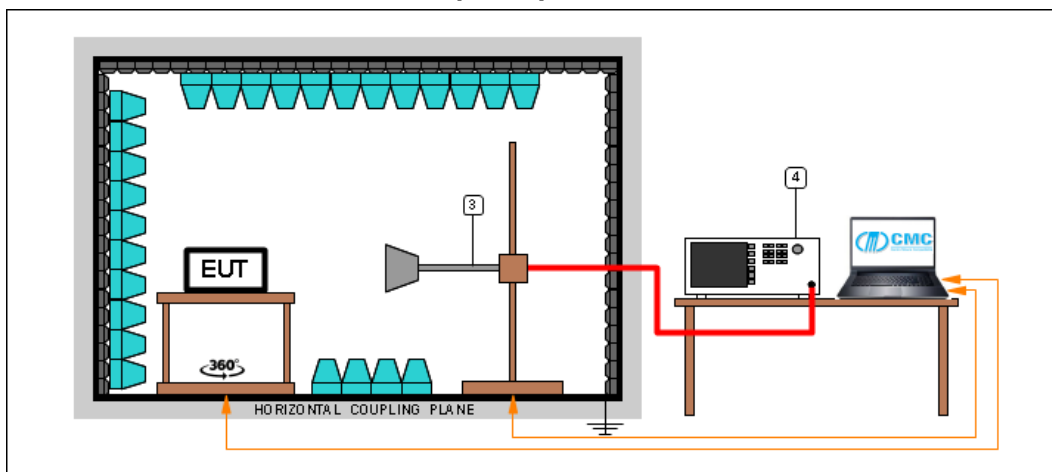
#### Test setup PE004\_02

| 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

| Modulation | Transmission frequency (MHz) | Polarization | Frequency Range (MHz) | Graphs    | Result |
|------------|------------------------------|--------------|-----------------------|-----------|--------|
| DH5        | 2402                         | H            | 1000 – 3000           | G20168801 | P      |
| DH5        | 2402                         | V            | 1000 – 3000           | G20168802 | P      |
| DH5        | 2441                         | V            | 1000 – 3000           | G20168803 | P      |
| DH5        | 2441                         | H            | 1000 – 3000           | G20168804 | P      |
| DH5        | 2480                         | H            | 1000 – 3000           | G20168805 | P      |
| DH5        | 2480                         | V            | 1000 – 3000           | G20168806 | P      |
| 2DH5       | 2402                         | V            | 1000 – 3000           | G20168807 | P      |
| 2DH5       | 2402                         | H            | 1000 – 3000           | G20168808 | P      |
| 2DH5       | 2441                         | H            | 1000 – 3000           | G20168809 | P      |
| 2DH5       | 2441                         | V            | 1000 – 3000           | G20168810 | P      |
| 2DH5       | 2480                         | V            | 1000 – 3000           | G20168811 | P      |
| 2DH5       | 2480                         | H            | 1000 – 3000           | G20168812 | P      |
| 3DH5       | 2402                         | H            | 1000 – 3000           | G20168813 | P      |
| 3DH5       | 2402                         | V            | 1000 – 3000           | G20168814 | P      |
| 3DH5       | 2441                         | V            | 1000 – 3000           | G20168815 | P      |
| 3DH5       | 2441                         | H            | 1000 – 3000           | G20168816 | P      |
| 3DH5       | 2480                         | H            | 1000 – 3000           | G20168817 | P      |
| 3DH5       | 2480                         | V            | 1000 – 3000           | G20168818 | P      |
| 3DH5       | 2480                         | V            | 3000 – 18000          | G20168819 | P      |
| 3DH5       | 2480                         | H            | 3000 – 18000          | G20168820 | P      |
| 3DH5       | 2441                         | H            | 3000 – 18000          | G20168821 | P      |
| 3DH5       | 2441                         | V            | 3000 – 18000          | G20168822 | P      |
| 3DH5       | 2402                         | V            | 3000 – 18000          | G20168823 | P      |
| 3DH5       | 2402                         | H            | 3000 – 18000          | G20168824 | P      |
| 2DH5       | 2402                         | H            | 3000 – 18000          | G20168825 | P      |
| 2DH5       | 2402                         | V            | 3000 – 18000          | G20168826 | P      |
| 2DH5       | 2441                         | V            | 3000 – 18000          | G20168827 | P      |
| 2DH5       | 2441                         | H            | 3000 – 18000          | G20168828 | P      |
| 2DH5       | 2480                         | H            | 3000 – 18000          | G20168829 | P      |
| 2DH5       | 2480                         | V            | 3000 – 18000          | G20168830 | P      |



| Modulation | Transmission frequency (MHz) | Polarization | Frequency Range (MHz) | Graphs    | Result |
|------------|------------------------------|--------------|-----------------------|-----------|--------|
| DH5        | 2480                         | V            | 3000 – 18000          | G20168831 | P      |
| DH5        | 2480                         | H            | 3000 – 18000          | G20168832 | P      |
| DH5        | 2441                         | H            | 3000 – 18000          | G20168833 | P      |
| DH5        | 2441                         | V            | 3000 – 18000          | G20168834 | P      |
| DH5        | 2402                         | V            | 3000 – 18000          | G20168835 | P      |
| DH5        | 2402                         | H            | 3000 – 18000          | G20168836 | P      |
| DH5        | Worst case                   | H            | 30 – 300              | G20168861 | P      |
| DH5        | Worst case                   | V            | 30 – 300              | G20168862 | P      |
| 2DH5       | Worst case                   | V            | 30 – 300              | G20168863 | P      |
| 2DH5       | Worst case                   | H            | 30 – 300              | G20168864 | P      |
| 3DH5       | Worst case                   | H            | 30 – 300              | G20168865 | P      |
| 3DH5       | Worst case                   | V            | 30 – 300              | G20168866 | P      |
| 3DH5       | Worst case                   | V            | 300 – 1000            | G20168867 | P      |
| 3DH5       | Worst case                   | H            | 300 – 1000            | G20168868 | P      |
| 2DH5       | Worst case                   | H            | 300 – 1000            | G20168869 | P      |
| 2DH5       | Worst case                   | V            | 300 – 1000            | G20168870 | P      |
| DH5        | Worst case                   | V            | 300 – 1000            | G20168871 | P      |
| DH5        | Worst case                   | H            | 300 – 1000            | G20168872 | P      |
| DH5        | Worst case                   | Loop         | 0,009 – 30            | G20168873 | P      |
| 2DH5       | Worst case                   | Loop         | 0,009 – 30            | G20168874 | P      |
| 3DH5       | Worst case                   | Loop         | 0,009 – 30            | G20168875 | P      |
| DH5        | Worst case                   | H            | 18000 – 26000         | G20168876 | P      |
| DH5        | Worst case                   | V            | 18000 – 26000         | G20168877 | P      |
| 2DH5       | Worst case                   | V            | 18000 – 26000         | G20168878 | P      |
| 2DH5       | Worst case                   | H            | 18000 – 26000         | G20168879 | P      |
| 3DH5       | Worst case                   | H            | 18000 – 26000         | G20168880 | P      |
| 3DH5       | Worst case                   | V            | 18000 – 26000         | G20168881 | 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

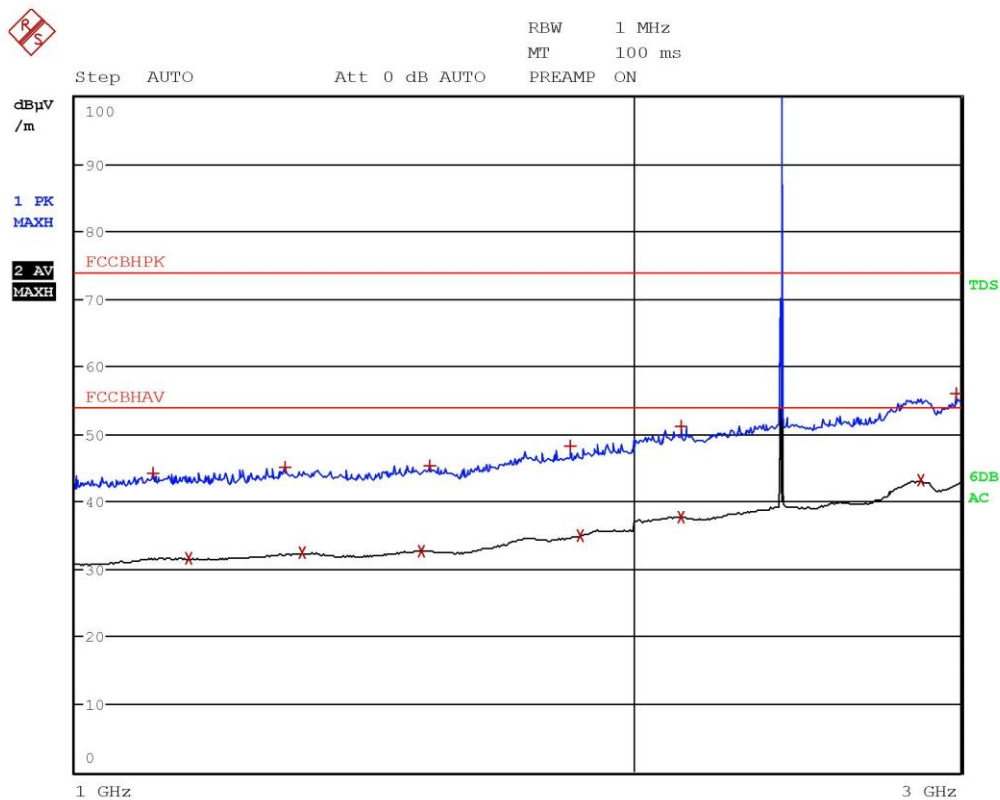
#### Graphs Legend

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

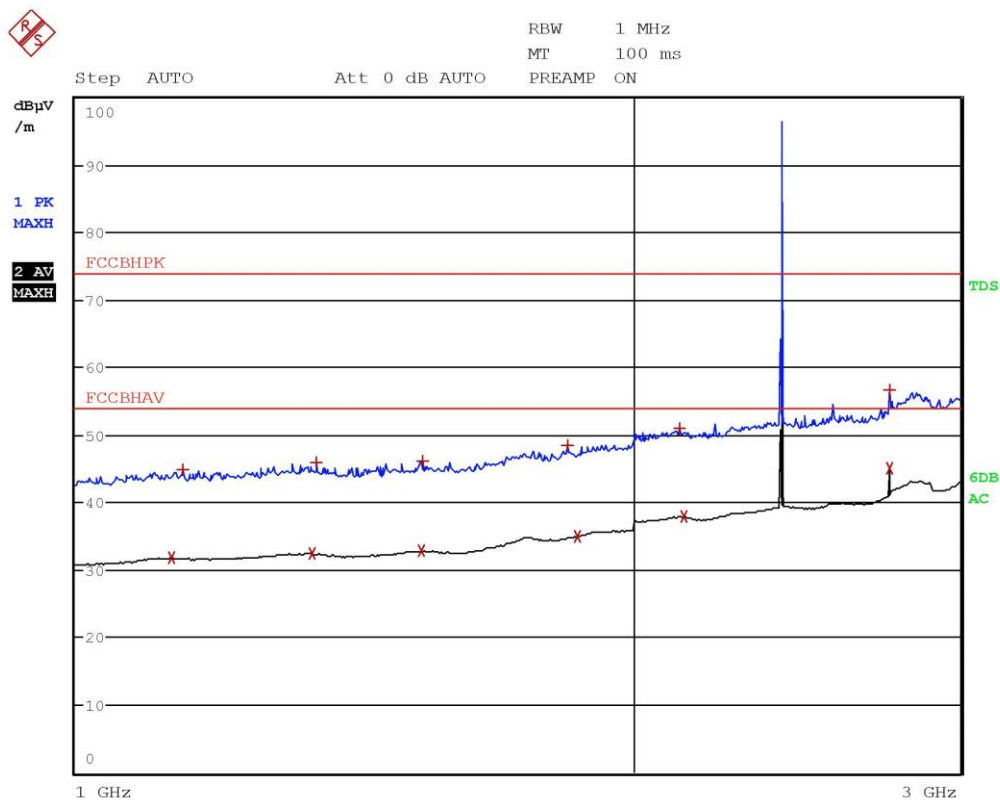


Segalla 20168801



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.1008 GHz | 44.22        | -29.75         |
| 2 Average                        | 1.1504 GHz | 31.66        | -22.31         |
| 1 Max Peak                       | 1.2984 GHz | 44.98        | -28.99         |
| 2 Average                        | 1.326 GHz  | 32.46        | -21.52         |
| 2 Average                        | 1.5352 GHz | 32.76        | -21.21         |
| 1 Max Peak                       | 1.5524 GHz | 45.27        | -28.70         |
| 1 Max Peak                       | 1.8476 GHz | 48.23        | -25.74         |
| 2 Average                        | 1.8712 GHz | 34.93        | -19.04         |
| 2 Average                        | 2.1188 GHz | 37.81        | -16.16         |
| 1 Max Peak                       | 2.1208 GHz | 51.16        | -22.82         |
| 2 Average                        | 2.8528 GHz | 43.08        | -10.89         |
| 1 Max Peak                       | 2.9816 GHz | 55.90        | -18.07         |

Segalla 20168801

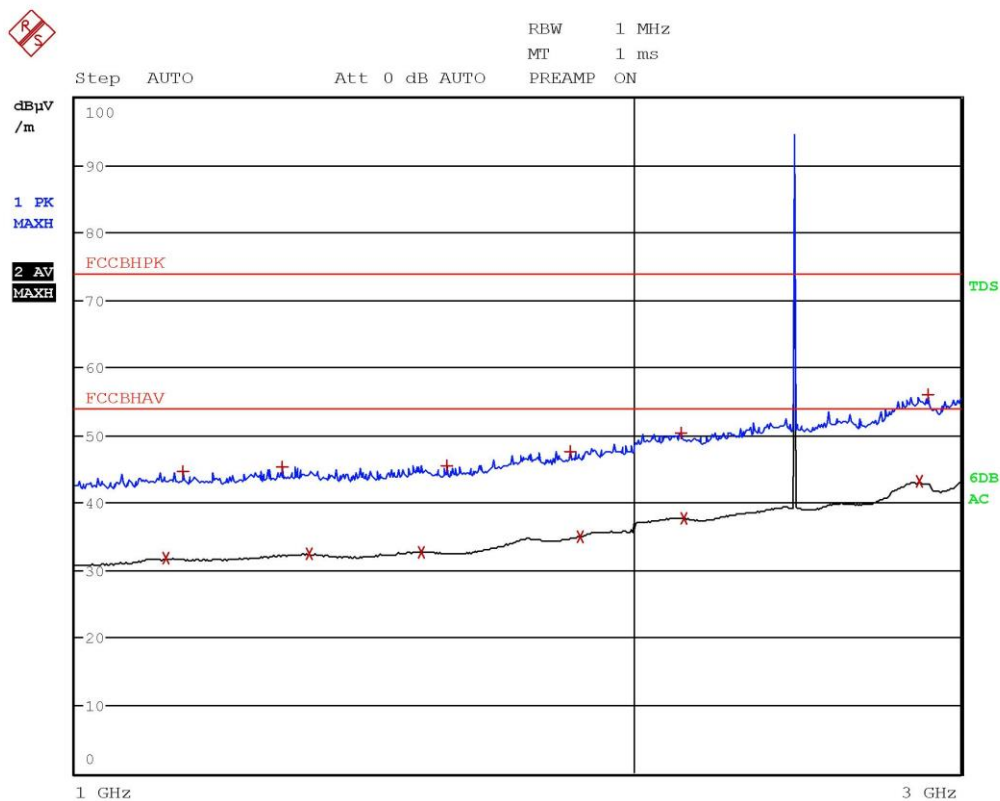


Segalla 20168802



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 2 Average                        | 1.1272 GHz | 31.84        | -22.13         |
| 1 Max Peak                       | 1.1432 GHz | 44.89        | -29.08         |
| 2 Average                        | 1.3412 GHz | 32.54        | -21.43         |
| 1 Max Peak                       | 1.3484 GHz | 45.80        | -28.17         |
| 2 Average                        | 1.5352 GHz | 32.78        | -21.19         |
| 1 Max Peak                       | 1.5384 GHz | 46.06        | -27.91         |
| 1 Max Peak                       | 1.8416 GHz | 48.38        | -25.59         |
| 2 Average                        | 1.8652 GHz | 35.01        | -18.96         |
| 1 Max Peak                       | 2.1152 GHz | 50.92        | -23.05         |
| 2 Average                        | 2.1268 GHz | 37.86        | -16.11         |
| 1 Max Peak                       | 2.7476 GHz | 56.54        | -17.44         |
| 2 Average                        | 2.7476 GHz | 45.10        | -8.87          |

Segalla 20168802

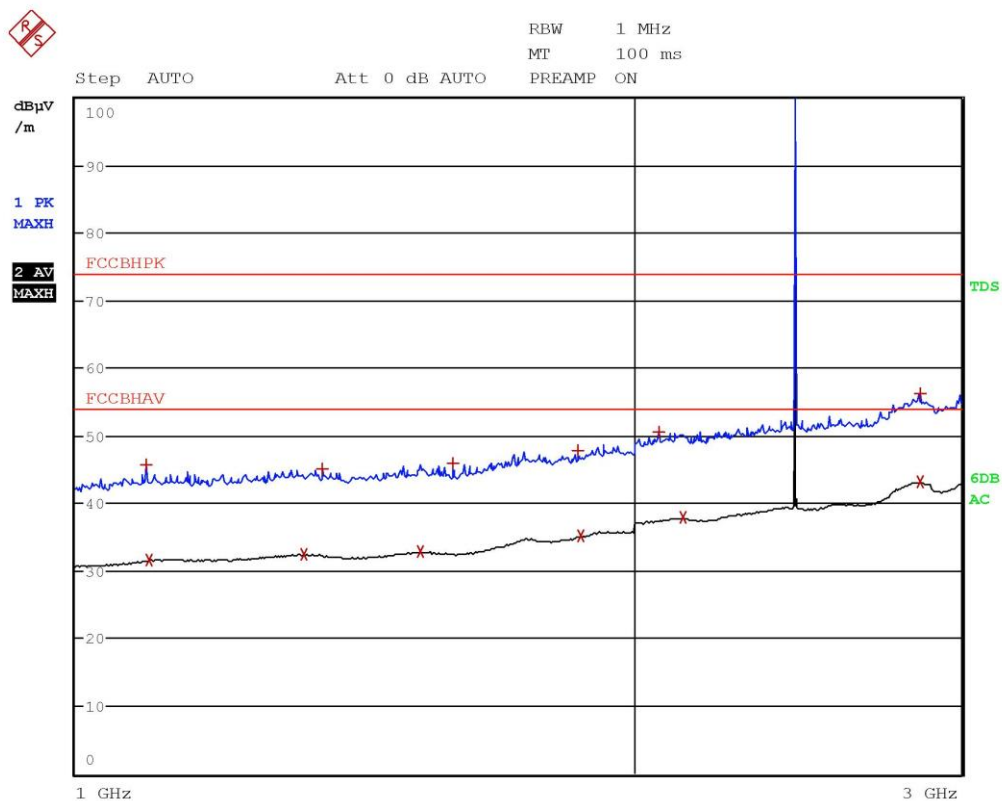


Segalla 20168803



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 2 Average                        | 1.1188 GHz | 31.74        | -22.23         |
| 1 Max Peak                       | 1.1428 GHz | 44.65        | -29.32         |
| 1 Max Peak                       | 1.2916 GHz | 45.21        | -28.76         |
| 2 Average                        | 1.336 GHz  | 32.39        | -21.58         |
| 2 Average                        | 1.5356 GHz | 32.76        | -21.21         |
| 1 Max Peak                       | 1.5852 GHz | 45.57        | -28.40         |
| 1 Max Peak                       | 1.848 GHz  | 47.64        | -26.33         |
| 2 Average                        | 1.8716 GHz | 34.96        | -19.01         |
| 1 Max Peak                       | 2.1196 GHz | 50.40        | -23.58         |
| 2 Average                        | 2.1288 GHz | 37.79        | -16.18         |
| 2 Average                        | 2.8508 GHz | 43.10        | -10.87         |
| 1 Max Peak                       | 2.8812 GHz | 55.94        | -18.04         |

Segalla 20168803

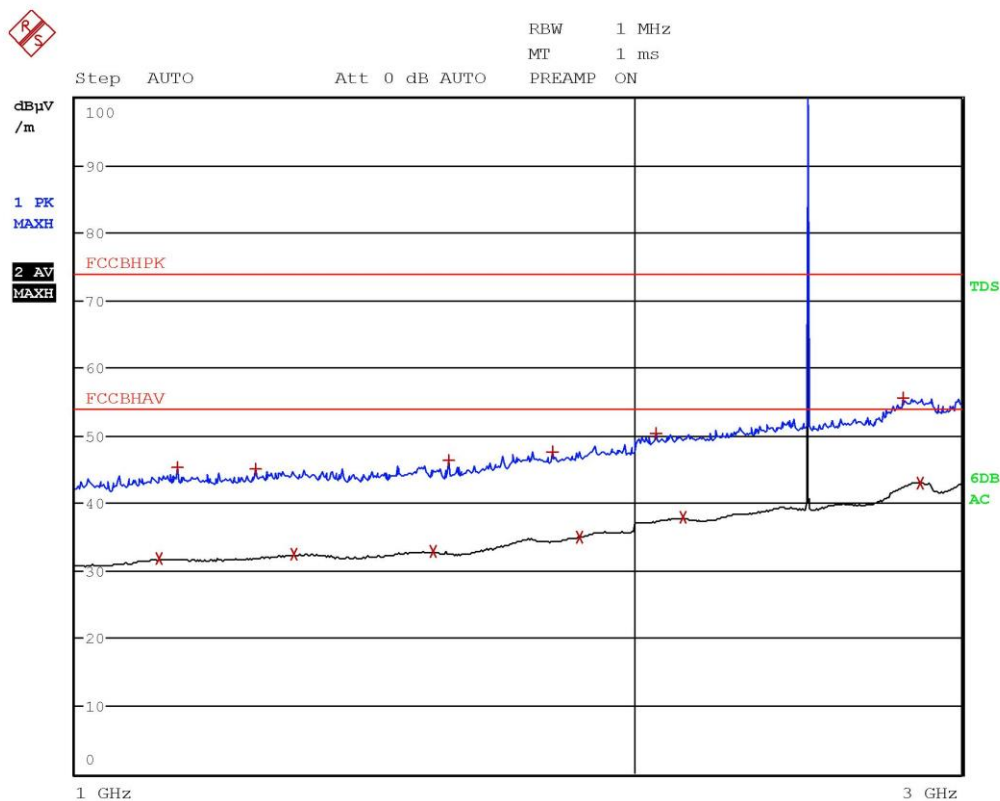


Segalla 20168804



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.0908 GHz | 45.62        | -28.35         |
| 2 Average                        | 1.0964 GHz | 31.67        | -22.30         |
| 2 Average                        | 1.328 GHz  | 32.40        | -21.57         |
| 1 Max Peak                       | 1.3572 GHz | 44.97        | -29.00         |
| 2 Average                        | 1.5332 GHz | 32.80        | -21.17         |
| 1 Max Peak                       | 1.5964 GHz | 45.82        | -28.15         |
| 1 Max Peak                       | 1.8652 GHz | 47.82        | -26.15         |
| 2 Average                        | 1.8728 GHz | 35.09        | -18.88         |
| 1 Max Peak                       | 2.0612 GHz | 50.63        | -23.35         |
| 2 Average                        | 2.1236 GHz | 37.93        | -16.04         |
| 1 Max Peak                       | 2.848 GHz  | 56.23        | -17.74         |
| 2 Average                        | 2.8508 GHz | 43.07        | -10.90         |

Segalla 20168804



Segalla 20168805



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 2 Average                        | 1.1092 GHz | 31.73        | -22.24         |
| 1 Max Peak                       | 1.1356 GHz | 45.20        | -28.77         |
| 1 Max Peak                       | 1.2496 GHz | 45.04        | -28.93         |
| 2 Average                        | 1.3108 GHz | 32.41        | -21.57         |
| 2 Average                        | 1.558 GHz  | 32.79        | -21.18         |
| 1 Max Peak                       | 1.5884 GHz | 46.35        | -27.62         |
| 1 Max Peak                       | 1.8076 GHz | 47.51        | -26.46         |
| 2 Average                        | 1.8676 GHz | 34.99        | -18.98         |
| 1 Max Peak                       | 2.056 GHz  | 50.26        | -23.71         |
| 2 Average                        | 2.1248 GHz | 37.82        | -16.15         |
| 1 Max Peak                       | 2.7896 GHz | 55.49        | -18.49         |
| 2 Average                        | 2.8492 GHz | 43.06        | -10.92         |

Segalla 20168805