



# TEST REPORT

## Part 15 Subpart C 15.231

**Equipment under test** Vehicle Security Gateway

**Model name** ST-900-CF

**FCC ID** KL7ST-900-CF

**Applicant** Savi Technology Inc.

**Manufacturer** Dae Kyung Philippines, Inc.

**Date of test(s)** 2016.10.04 ~ 2016.11.10

**Date of issue** 2016.11.10

**Issued to**

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Test report No.:  
KES-RF-16T0094-R1  
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**Revision history**

| <b>Revision</b> | <b>Date of issue</b> | <b>Test report No.</b> | <b>Description</b>   |
|-----------------|----------------------|------------------------|--|
| -               | 2016.10.17           | KES-RF-16T0094         | Initial  |
| R1              | 2016.11.10           | KES-RF-16T0094-R1      | Retest a Transmission time and added a test plot of duty cycle |

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## 1. General information

Applicant: Savi Technology Inc.  
Applicant address: 3601 Eisenhower Avenue, STE 280, Alexandria VA 22304  
Test site: KES Co., Ltd.  
Test site address: C-3701, 40, Simin-daero 365beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, Korea  
473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, Korea  
FCC rule part(s): 15.231  
FCC ID: KL7ST-900-CF  
Test device serial No.:  Production  Pre-production  Engineering

### 1.1. EUT description

Equipment under test Vehicle Security Gateway  
Frequency range Tx :433.92 MHz  
Rx :433.92 MHz  
GSM 850 : 824.2 MHz ~ 848.8 MHz  
PCS 1900 : 1850.2 MHz ~ 1909.8 MHz  
Modulation technique 433.92 MHz : FSK  
GSM : GMSK  
Number of channels 433.92 MHz : 1ch  
GSM 850 : 125ch, GSM 1900 : 300ch  
Antenna specification 433.92 UHF Antenna type: PCB, Peak gain: -0.97 dBi  
GSM 850 Antenna type: PCB, Peak gain: -0.30 dBi  
GSM 1900 Antenna type: PCB, Peak gain: -1.70 dBi  
Power source External Power : DC 24.0 V / 2A  
Backup Battery : DC 3.7 V / 1400 mAh Li-polymer battery

#### Note:

- Certificated GSM/GPRS module is mounted in the EUT as following
  - Applicant: Shanghai Simcom Ltd.
  - FCC Identifier : UDV-20160416
  - Model: SIM808
- The installed module is completed identical as original.

### 1.2. Test configuration

The **Savi Technology, Inc. Vehicle Security Gateway FCC ID: KL7ST-900-CF** was tested per the guidance of ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

### 1.3. Device modifications

N/A

### 1.4. Derivation model information

N/A



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**1.5. Frequency/channel operations**

| Ch. | Frequency (MHz) |
|-----|-----------------|
| 01  | 433.92          |

**1.6. Worst case configuration**

The EUT was investigated in each of its External power mode and Battery mode. All radiated test and power line conducted test was performed with the EUT set to transmit mode. The test results shown in the following sections represent the worst case emissions for External power mode.

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## 2. Summary of tests

| Reference              | Parameter  | Test results |
|------------------------|--|--------------|
| 15.209(a)<br>15.231(b) | Radiated emission,<br>Spurious emission and<br>Field Strength of Fundamental | Pass         |
| 15.231(c)              | Bandwidth of operation frequency   | Pass         |
| 15.231(a)              | Transmission time  | Pass         |
| 15.207(a)              | AC conducted emissions   | Pass         |

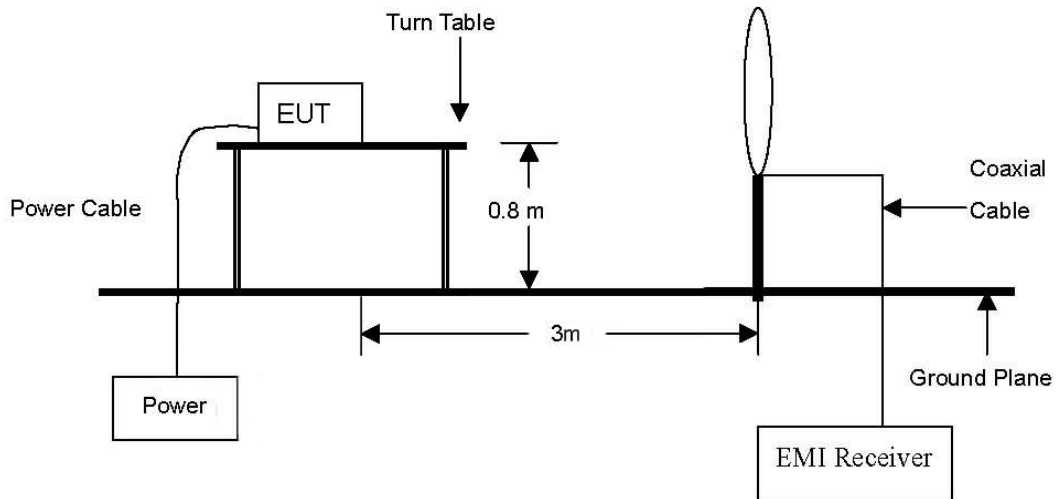
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### 3. Test results

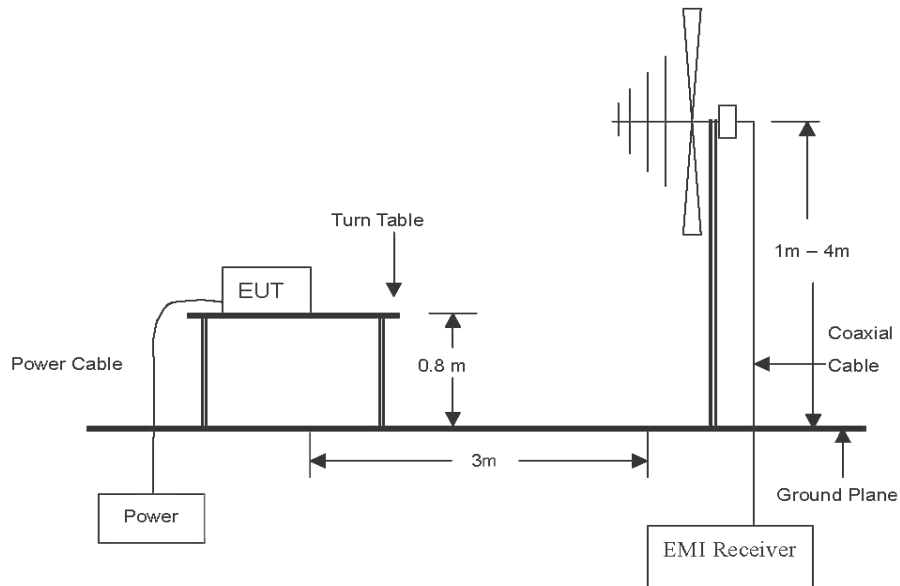
#### 3.1. Field strength of fundamental and the field strength of spurious emission

##### Test setup

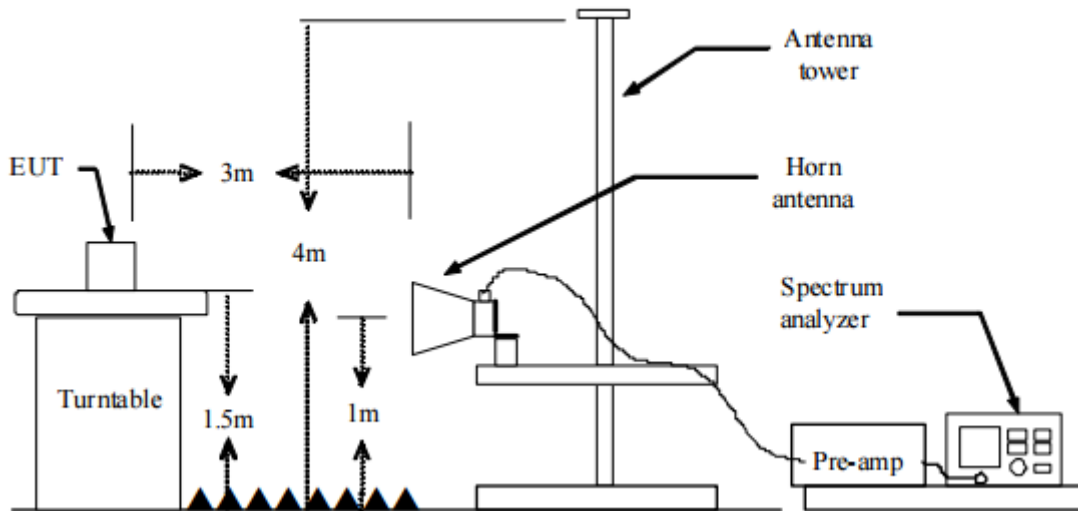
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz emissions, whichever is lower.



#### Test procedure below 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum hold mode.

#### Test procedure above 30 MHz

1. Spectrum analyzer settings for  $f < 1$  GHz:
  - ① Span = wide enough to fully capture the emission being measured
  - ② RBW = 100 kHz
  - ③ VBW  $\geq$  RBW
  - ④ Detector = Peak detection (PK) or Quasi-peak detection (QP)
  - ⑤ Sweep time = auto
  - ⑥ Trace = max hold
2. Spectrum analyzer settings for  $f \geq 1$  GHz: Peak
  - ① Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
  - ② RBW = 1 MHz
  - ③ VBW  $\geq$  3 MHz
  - ④ Detector = peak
  - ⑤ Sweep time = auto
  - ⑥ Trace = max hold
  - ⑦ Trace was allowed to stabilize



**Note.**

1.  $f < 30$  MHz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40\log(D_m/D_s)$   
 $f \geq 30$  MHz, extrapolation factor of 20 dB/decade of distance.  $F_d = 20\log(D_m/D_s)$   
Where:  
 $F_d$  = Distance factor in dB  
 $D_m$  = Measurement distance in meters  
 $D_s$  = Specification distance in meters
2. CF(Correction factors(dB)) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d$ (dB)
3. Field strength(dB $\mu$ V/m) = Level(dB $\mu$ V) + CF (dB) + or DCF(dB)
4. Margin(dB) = Limit(dB $\mu$ V/m) - Field strength(dB $\mu$ V/m)
5. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z, it was determined that **Y orientation** was worst-case orientation; therefore, all final radiated testing was performed with the EUT in **Y orientation**.
6. The emissions are reported however whose levels were not within 20 dB of respective limits were not reported.

**Limit**

According to 15.209(a), for an intentional radiator devices, the general required of field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values :

| Frequency (MHz) | Distance (Meters) | Radiated ( $\mu V/m$ ) |
|-----------------|-------------------|------------------------|
| 0.009 ~ 0.490   | 300               | 2400/F(kHz)            |
| 0.490 ~ 1.705   | 30                | 24000/F(kHz)           |
| 1.705 ~ 30.0    | 30                | 30                     |
| 30 ~ 88         | 3                 | 100**                  |
| 88 ~ 216        | 3                 | 150**                  |
| 216 ~ 960       | 3                 | 200**                  |
| Above 960       | 3                 | 500                    |

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 ~ 72 MHz, 76 ~ 88 MHz, 174 ~ 216 MHz or 470 ~ 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

According to 15.231(b), in addition to the provisions of section 15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

| Fundamental frequency (MHz) | Field strength of fundamental (microvolts / meter) | Field strength of spurious emission (microvolts / meter) |
|-----------------------------|--|--|
| 40.66 ~ 40.70               | 2,250  | 225  |
| 70 ~ 130                    | 1,250  | 125  |
| 130 ~ 174                   | 1,250 to 3,750**                                   | 125 to 375**   |
| 174 ~ 260                   | 3,750  | 375  |
| 260 ~ 470                   | 3,750 to 12,500**                                  | 375 to 1,250**   |
| Above 470                   | 12,500   | 1,250  |

\*\*Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130 ~ 174 MHz,  $\mu V/m$  at 3 meters =  $56.81818(F) - 6136.3636$ ; for the band 260 ~ 470 MHz,  $\mu V/m$  at 3 meters =  $41.6667(F) - 7083.333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

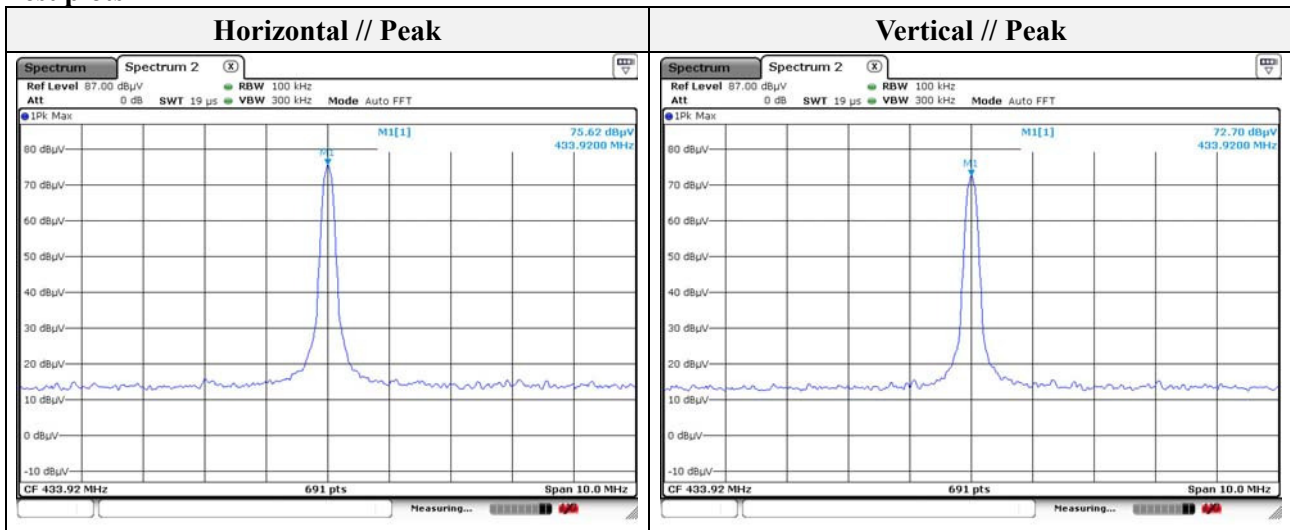
## Field strength

### Test results

Mode: FSK  
 Distance of measurement: 3 meter  
 Channel: 1

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 433.92          | 75.62        | Peak        | H               | 17.43   | -        | 93.05                   | 100.83         | 7.78        |
|                 |              | Average     | H               | 17.43   | -20.93   | 72.12                   | 80.83          | 8.71        |
| 433.92          | 72.70        | Peak        | V               | 17.43   | -        | 90.13                   | 100.83         | 10.70       |
|                 |              | Average     | V               | 17.43   | -20.93   | 69.20                   | 80.83          | 11.63       |

### Test plots



### Note.

- $3m \text{ Average Limit (dB}\mu\text{V/m)} = 20\log[41.6667(F_{\text{MHz}} - 7083.3333)] = 80.83$   
 $3m \text{ Peak Limit (dB}\mu\text{V/m)} = \text{Average limit} + 20 = 100.83$   
 Average Field strength = Peak Field strength + Duty Cycle Correction Factor
- Duty Cycle Correction Factor :  $20\log(\text{Ton} / 100 \text{ ms}) = 20\log(8.986 / 100) = -20.93$   
 $\text{Tx}_{\text{on time}} = 8.986 \text{ ms}$   
 $\text{Tx}_{\text{on+off}} \geq 100 \text{ ms}$  (pulse train is 100 ms)

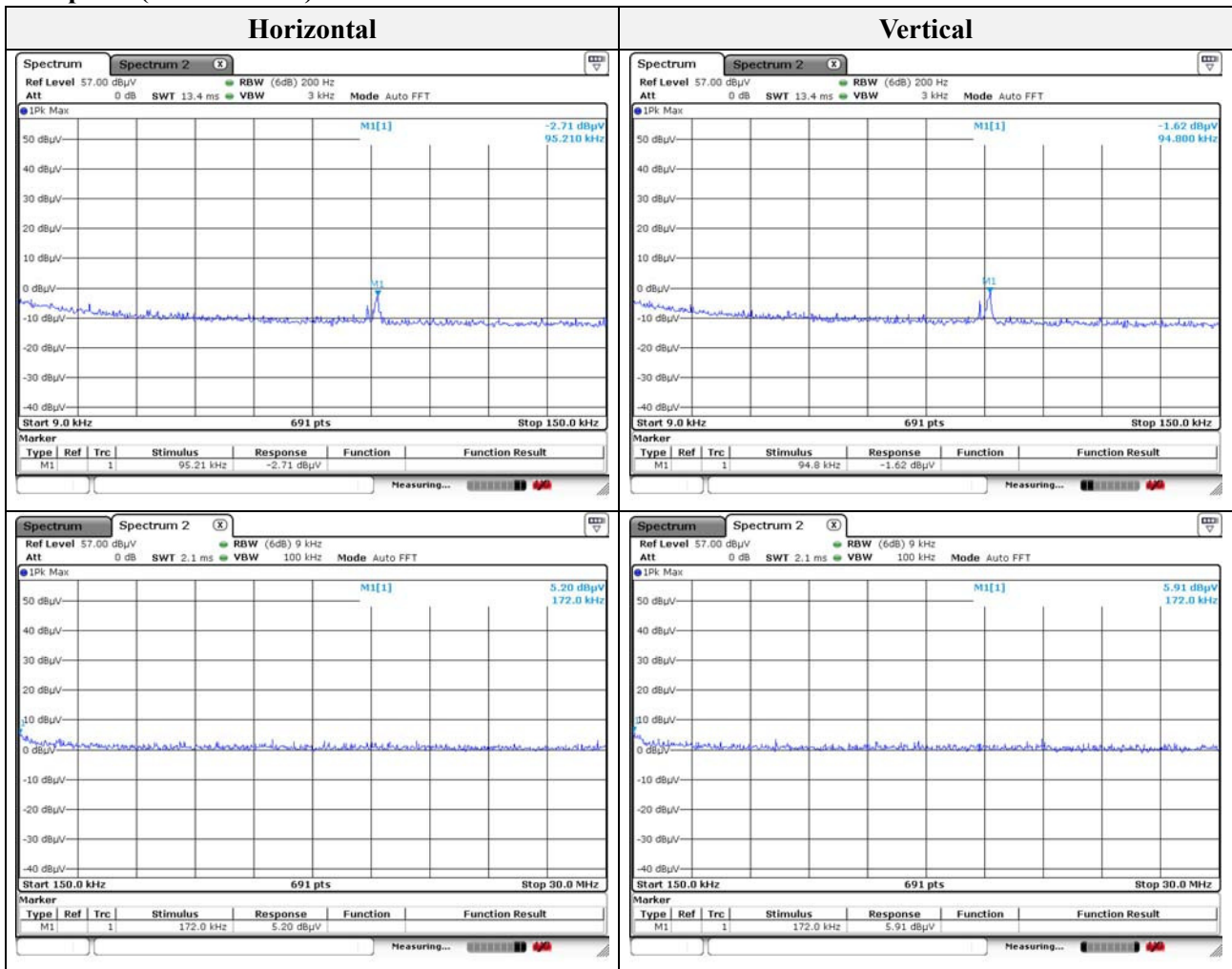
**Spurious emission**

**Test results (Below 30 MHz)**

Mode: FSK  
 Distance of measurement: 3 meter  
 Channel: 1

| Frequency (MHz)   | Level (dB $\mu$ V) | Ant. Pol. (H/V) | CF (dB) | F <sub>d</sub> (dB) | Field strength (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) |
|---|--------------------|-----------------|---------|---------------------|-------------------------------|----------------------|-------------|
| No spurious emissions were detected within 20 dB of the limit |                    |                 |         |                     |                               |                      |             |

**Test plots (Below 30 MHz)**



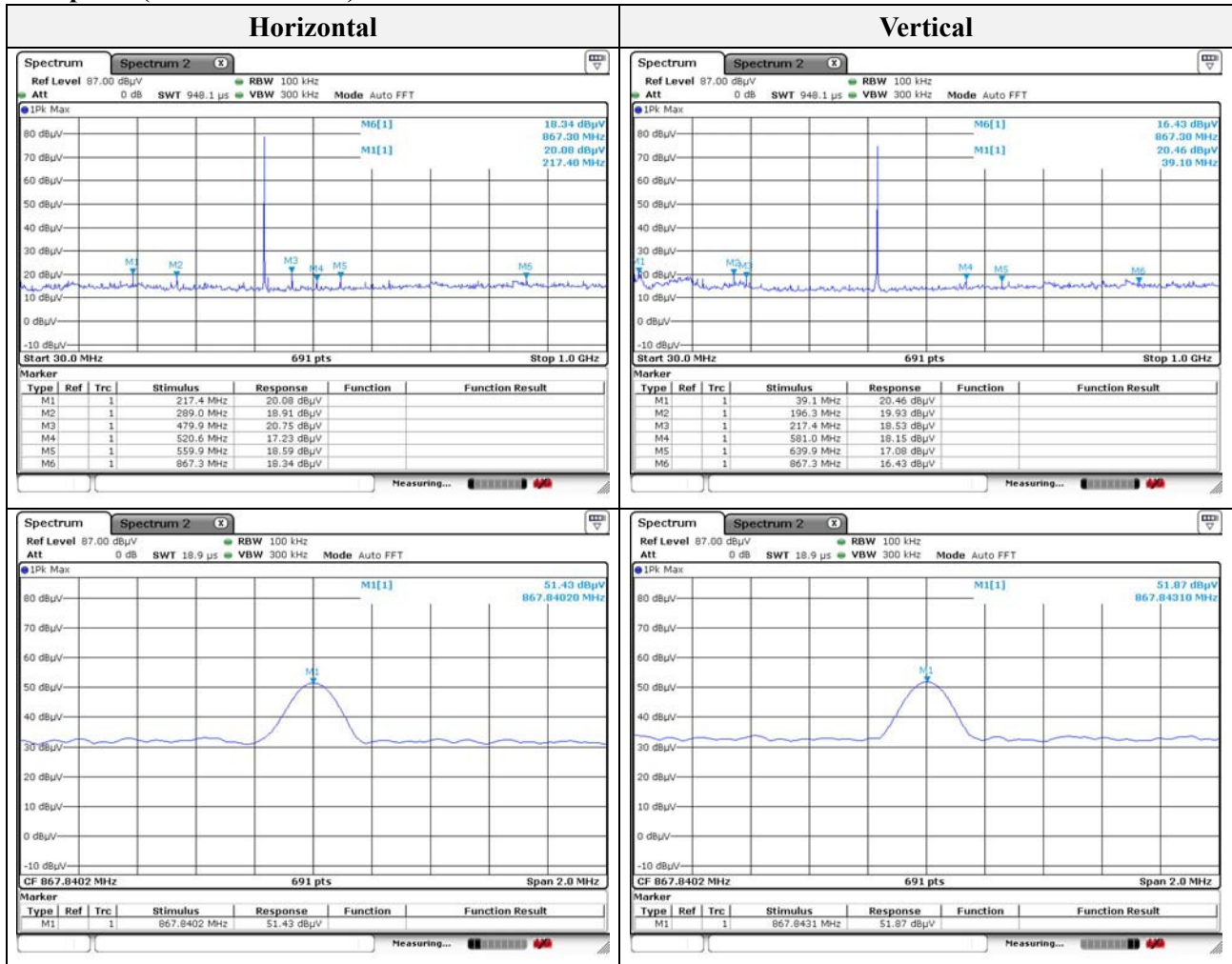
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**Test results (Below 1 000 MHz)**

Mode: FSK  
 Distance of measurement: 3 meter  
 Channel: 1

| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| 39.10           | 20.46        | Peak        | V               | 12.64   | -        | 33.10                   | 40.00          | 6.90        |
| 217.40          | 20.08        | Peak        | H               | 12.53   | -        | 32.61                   | 46.00          | 13.39       |
| 479.90          | 20.75        | Peak        | H               | 18.15   | -        | 38.90                   | 46.00          | 7.10        |
| 599.90          | 18.50        | Peak        | H               | 20.81   | -        | 39.31                   | 46.00          | 6.69        |
| 867.84          | 51.43        | Peak        | H               | -7.88   | -        | 45.35                   | 80.83          | 35.48       |
| 867.84          | 51.87        | Peak        | V               | -7.88   | -        | 45.79                   | 80.83          | 35.04       |

**Test plots (Below 1 000 MHz)**



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**Test results (Above 1 000 MHz)**

Mode: FSK  
 Distance of measurement: 3 meter  
 Channel: 1

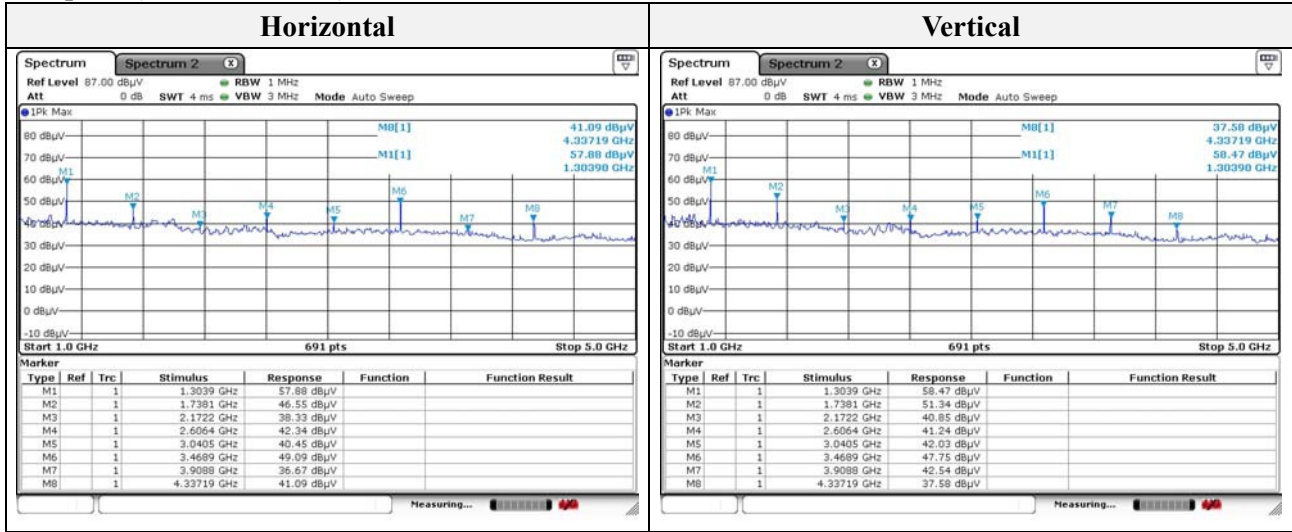
| Frequency (MHz) | Level (dBμV) | Detect mode | Ant. Pol. (H/V) | CF (dB) | DCF (dB) | Field strength (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|--------------|-------------|-----------------|---------|----------|-------------------------|----------------|-------------|
| *1 303.90       | 57.88        | Peak        | H               | -7.91   | -        | 49.97                   | 74.00          | 24.03       |
| *1 303.90       | 58.47        | Peak        | V               | -7.91   | -        | 50.56                   | 74.00          | 23.44       |
| 1 738.10        | 46.55        | Peak        | H               | -4.79   | -        | 41.76                   | 80.83          | 39.07       |
| 1 738.10        | 51.34        | Peak        | V               | -4.79   | -        | 46.55                   | 80.83          | 34.28       |
| 2 172.20        | 38.33        | Peak        | H               | -1.49   | -        | 36.84                   | 80.83          | 43.99       |
| 2 172.20        | 40.85        | Peak        | V               | -1.49   | -        | 39.36                   | 80.83          | 41.47       |
| 2 606.40        | 42.34        | Peak        | H               | 0.74    | -        | 43.08                   | 80.83          | 37.75       |
| 2 606.40        | 41.24        | Peak        | V               | 0.74    | -        | 41.98                   | 80.83          | 38.85       |
| 3 040.50        | 40.45        | Peak        | H               | 2.39    | -        | 42.84                   | 80.83          | 37.99       |
| 3 040.50        | 42.03        | Peak        | V               | 2.39    | -        | 44.42                   | 80.83          | 36.41       |
| 3 468.90        | 49.09        | Peak        | H               | 2.17    | -        | 51.26                   | 80.83          | 29.57       |
| 3 468.90        | 47.75        | Peak        | V               | 2.17    | -        | 49.92                   | 80.83          | 30.91       |
| *3 908.80       | 36.67        | Peak        | H               | 4.17    | -        | 40.84                   | 74.00          | 33.16       |
| *3 908.80       | 42.54        | Peak        | V               | 4.17    | -        | 46.71                   | 74.00          | 27.29       |
| 4 337.19        | 41.09        | Peak        | H               | 5.46    | -        | 46.55                   | 80.83          | 34.28       |
| 4 337.19        | 37.58        | Peak        | V               | 5.46    | -        | 43.04                   | 80.83          | 37.79       |

**Note.**

1.  $3m \text{ PeakLimit}(\text{dB}\mu\text{V}/\text{m}) = 20\log[41.6667(F_{(\text{MHz})}-7083.3333)] = 80.83$   
 $3m \text{ Average Limit}(\text{dB}\mu\text{V}/\text{m}) = \text{Peak limit} - 20 = 60.83$   
 Average Field strength = Peak Field strength + Duty Cycle Correction Factor
2. Correction Factors = Antenna Factor + Cable Loss + Amp.Gain
3. “\*” means the restricted band.
4. Average test would not be applied if the peak results were lower than the average limit.
5. Duty Cycle Correction Factor :  $20\log(T_{\text{on}} / 100 \text{ ms}) = 20\log(8.986 / 100) = -20.93$   
 $T_{\text{X on time}} = 8.986 \text{ ms}$   
 $T_{\text{X on+off}} \geq 100 \text{ ms}$  (pulse train is 100 ms)



**Test plots (Above 1 000 MHz)**

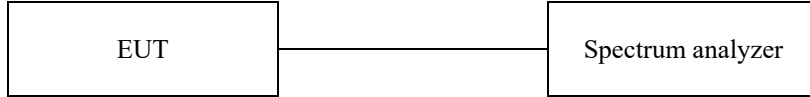


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### 3.2. Bandwidth of operation frequency

#### Test setup



#### Test procedure

1. Use the following spectrum analyzer setting
2. RBW = 10 kHz
3. VBW = 30 kHz (≥ RBW)
4. Span = 1 MHz
5. Detector function = peak
6. Trace = max hold

#### Limit

The bandwidth of the emissions shall be no wider than 0.25 % of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

#### Test results

| Frequency(MHz) | Bandwidth(kHz) | Limit (kHz) |
|----------------|----------------|-------------|
| 433.92         | 189.6          | 1 084.80    |

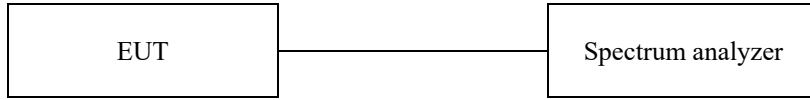


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### 3.3. Transmission time

#### Test setup



#### Test procedure

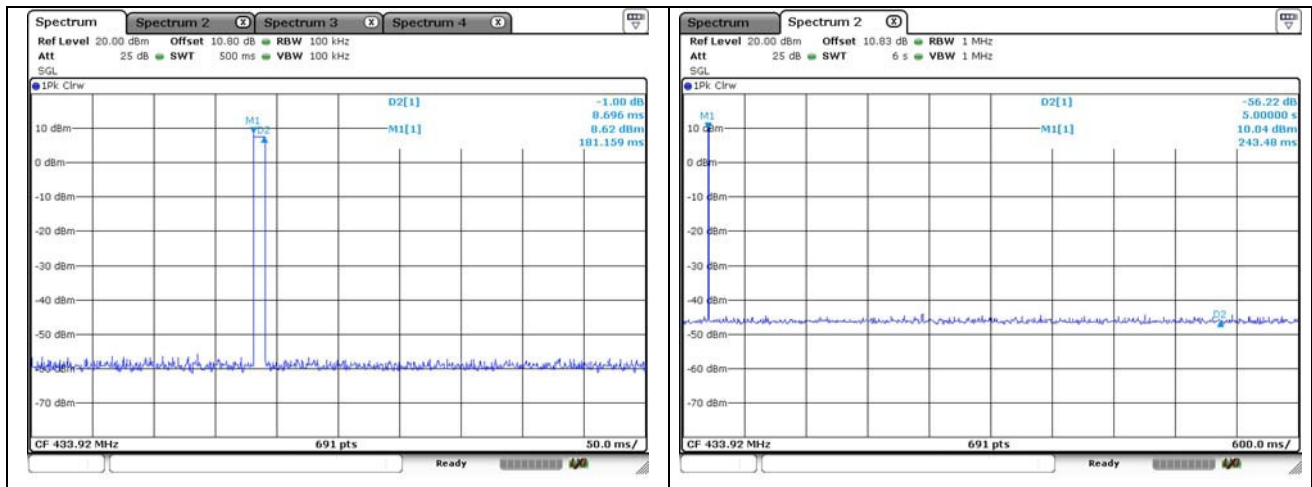
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW=100 kHz, VBW=100 kHz, Span=0 Hz.

#### Limit

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

#### Test results

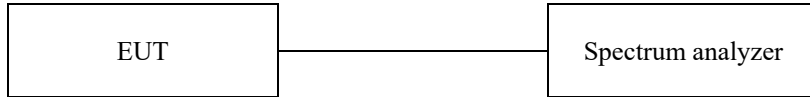
| Frequency(MHz) | Transmission time (ms) | Limit (s)           |
|----------------|------------------------|---------------------|
| 433.92         | 8.696                  | Same or less than 5 |



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### 3.4. Duty cycle correction factor

#### Test setup



#### Test procedure

1. The transmitter output is connected to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW=100 kHz, VBW=100 kHz, Span=0 Hz and Sweep time =100 ms.

#### Limit

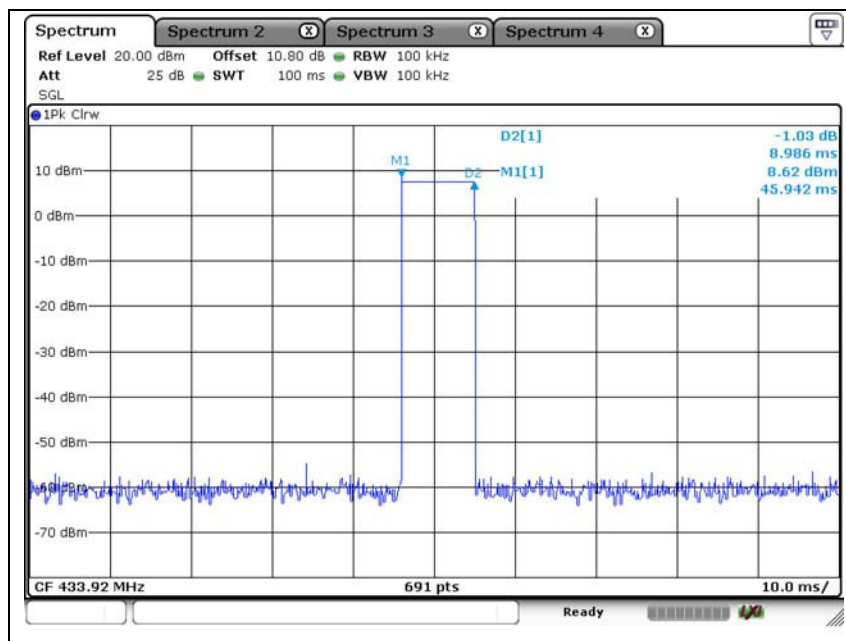
None (No dedicated Limit specified in the Rules)

#### Test results

Duty Cycle Correction Factor :  $20\log(\text{Ton} / 100 \text{ ms}) = 20\log(8.986 / 100) = -20.93$

Tx<sub>on time</sub> = 8.986 ms

Tx<sub>on+off</sub> ≥ 100 ms (pulse train is 100 ms)



### 3.5. AC conducted emissions

#### Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted limit (dB $\mu$ V/m) |          |
|-----------------------------|--------------------------------|----------|
|                             | Quasi-peak                     | Average  |
| 0.15 – 0.50                 | 66 - 56*                       | 56 - 46* |
| 0.50 – 5.00                 | 56                             | 46       |
| 5.00 – 30.0                 | 60                             | 50       |

#### Note.

1. All AC line conducted spurious emission are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and the appropriate frequencies. All data rates and modes were investigated for conducted spurious emission. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.
3. Both Cable loss and LISN factor are included in measurement level.(QP Level or AV Level).

### Test results

| Hot Line        |  |                 |                 |                |                 |                 |                 |                 |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
|-----------------|--|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|------|------------|----------|-----|-------|-------|-------|--------|-------|----|-----|----------|-------|-----|-------|-------|--------|-------|----|-----|----------|-----|-------|-------|-------|--------|-------|----|-----|----------|-------|-----|-------|-------|--------|-------|----|-----|----------|-------|-----|-------|-------|--------|-------|----|------|----------|-----|------|-------|-------|--------|-------|----|------|----------|-----|-------|-------|-------|--------|-------|----|------|----------|-------|-----|-------|-------|--------|-------|----|------|----------|-----|-------|-------|-------|--------|-------|----|------|----------|-------|-----|-------|-------|--------|-------|----|------|-----------|-------|-----|-------|-------|--------|-------|----|------|-----------|-----|-------|-------|-------|--------|-------|----|------|-----------|-------|-----|-------|-------|--------|-------|----|------|-----------|-----|-------|-------|-------|--------|-------|----|------|
|                 | <p><b>Final Result</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dBμ)</th> <th>CAverage (dBμ)</th> <th>Limit (dBμ)</th> <th>Margin (dB)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Line</th> <th>Corr. (dB)</th> </tr> </thead> <tbody> <tr><td>0.245000</td><td>---</td><td>10.83</td><td>51.92</td><td>41.09</td><td>1000.0</td><td>9.000</td><td>L1</td><td>9.7</td></tr> <tr><td>0.245000</td><td>15.32</td><td>---</td><td>61.92</td><td>46.60</td><td>1000.0</td><td>9.000</td><td>L1</td><td>9.7</td></tr> <tr><td>0.485000</td><td>---</td><td>16.26</td><td>46.25</td><td>29.99</td><td>1000.0</td><td>9.000</td><td>L1</td><td>9.8</td></tr> <tr><td>0.485000</td><td>24.83</td><td>---</td><td>56.25</td><td>31.42</td><td>1000.0</td><td>9.000</td><td>L1</td><td>9.8</td></tr> <tr><td>2.460000</td><td>13.56</td><td>---</td><td>56.00</td><td>42.44</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>2.460000</td><td>---</td><td>7.03</td><td>46.00</td><td>38.97</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>4.905000</td><td>---</td><td>12.93</td><td>46.00</td><td>33.07</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>4.905000</td><td>19.99</td><td>---</td><td>56.00</td><td>36.01</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>4.950000</td><td>---</td><td>11.85</td><td>46.00</td><td>34.15</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>4.950000</td><td>20.05</td><td>---</td><td>56.00</td><td>35.95</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.0</td></tr> <tr><td>17.270000</td><td>29.50</td><td>---</td><td>60.00</td><td>30.50</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.1</td></tr> <tr><td>17.270000</td><td>---</td><td>24.24</td><td>50.00</td><td>25.76</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.1</td></tr> <tr><td>18.180000</td><td>28.88</td><td>---</td><td>60.00</td><td>31.12</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.1</td></tr> <tr><td>18.180000</td><td>---</td><td>23.63</td><td>50.00</td><td>26.37</td><td>1000.0</td><td>9.000</td><td>L1</td><td>10.1</td></tr> </tbody> </table> | Frequency (MHz) | QuasiPeak (dBμ) | CAverage (dBμ) | Limit (dBμ)     | Margin (dB)     | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | 0.245000 | --- | 10.83 | 51.92 | 41.09 | 1000.0 | 9.000 | L1 | 9.7 | 0.245000 | 15.32 | --- | 61.92 | 46.60 | 1000.0 | 9.000 | L1 | 9.7 | 0.485000 | --- | 16.26 | 46.25 | 29.99 | 1000.0 | 9.000 | L1 | 9.8 | 0.485000 | 24.83 | --- | 56.25 | 31.42 | 1000.0 | 9.000 | L1 | 9.8 | 2.460000 | 13.56 | --- | 56.00 | 42.44 | 1000.0 | 9.000 | L1 | 10.0 | 2.460000 | --- | 7.03 | 46.00 | 38.97 | 1000.0 | 9.000 | L1 | 10.0 | 4.905000 | --- | 12.93 | 46.00 | 33.07 | 1000.0 | 9.000 | L1 | 10.0 | 4.905000 | 19.99 | --- | 56.00 | 36.01 | 1000.0 | 9.000 | L1 | 10.0 | 4.950000 | --- | 11.85 | 46.00 | 34.15 | 1000.0 | 9.000 | L1 | 10.0 | 4.950000 | 20.05 | --- | 56.00 | 35.95 | 1000.0 | 9.000 | L1 | 10.0 | 17.270000 | 29.50 | --- | 60.00 | 30.50 | 1000.0 | 9.000 | L1 | 10.1 | 17.270000 | --- | 24.24 | 50.00 | 25.76 | 1000.0 | 9.000 | L1 | 10.1 | 18.180000 | 28.88 | --- | 60.00 | 31.12 | 1000.0 | 9.000 | L1 | 10.1 | 18.180000 | --- | 23.63 | 50.00 | 26.37 | 1000.0 | 9.000 | L1 | 10.1 |
| Frequency (MHz) | QuasiPeak (dBμ)  | CAverage (dBμ)  | Limit (dBμ)     | Margin (dB)    | Meas. Time (ms) | Bandwidth (kHz) | Line            | Corr. (dB)      |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.245000        | ---  | 10.83           | 51.92           | 41.09          | 1000.0          | 9.000           | L1              | 9.7             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.245000        | 15.32  | ---             | 61.92           | 46.60          | 1000.0          | 9.000           | L1              | 9.7             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.485000        | ---  | 16.26           | 46.25           | 29.99          | 1000.0          | 9.000           | L1              | 9.8             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.485000        | 24.83  | ---             | 56.25           | 31.42          | 1000.0          | 9.000           | L1              | 9.8             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 2.460000        | 13.56  | ---             | 56.00           | 42.44          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 2.460000        | ---  | 7.03            | 46.00           | 38.97          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.905000        | ---  | 12.93           | 46.00           | 33.07          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.905000        | 19.99  | ---             | 56.00           | 36.01          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.950000        | ---  | 11.85           | 46.00           | 34.15          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.950000        | 20.05  | ---             | 56.00           | 35.95          | 1000.0          | 9.000           | L1              | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 17.270000       | 29.50  | ---             | 60.00           | 30.50          | 1000.0          | 9.000           | L1              | 10.1            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 17.270000       | ---  | 24.24           | 50.00           | 25.76          | 1000.0          | 9.000           | L1              | 10.1            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 18.180000       | 28.88  | ---             | 60.00           | 31.12          | 1000.0          | 9.000           | L1              | 10.1            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 18.180000       | ---  | 23.63           | 50.00           | 26.37          | 1000.0          | 9.000           | L1              | 10.1            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| Neutral Line    |  |                 |                 |                |                 |                 |                 |                 |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
|                 | <p><b>Final Result</b></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Frequency (MHz)</th> <th>QuasiPeak (dBμ)</th> <th>CAverage (dBμ)</th> <th>Limit (dBμ)</th> <th>Margin (dB)</th> <th>Meas. Time (ms)</th> <th>Bandwidth (kHz)</th> <th>Line</th> <th>Corr. (dB)</th> </tr> </thead> <tbody> <tr><td>0.170000</td><td>---</td><td>4.71</td><td>54.96</td><td>50.25</td><td>1000.0</td><td>9.000</td><td>N</td><td>9.7</td></tr> <tr><td>0.170000</td><td>22.77</td><td>---</td><td>64.96</td><td>42.19</td><td>1000.0</td><td>9.000</td><td>N</td><td>9.7</td></tr> <tr><td>0.495000</td><td>---</td><td>14.94</td><td>46.08</td><td>31.14</td><td>1000.0</td><td>9.000</td><td>N</td><td>9.8</td></tr> <tr><td>0.495000</td><td>22.50</td><td>---</td><td>56.08</td><td>33.58</td><td>1000.0</td><td>9.000</td><td>N</td><td>9.8</td></tr> <tr><td>1.555000</td><td>11.14</td><td>---</td><td>56.00</td><td>44.86</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>1.555000</td><td>---</td><td>4.41</td><td>46.00</td><td>41.59</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>4.870000</td><td>---</td><td>11.11</td><td>46.00</td><td>34.89</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>4.870000</td><td>17.58</td><td>---</td><td>56.00</td><td>38.42</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>4.965000</td><td>---</td><td>10.89</td><td>46.00</td><td>35.11</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>4.965000</td><td>18.96</td><td>---</td><td>56.00</td><td>37.04</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>16.620000</td><td>27.88</td><td>---</td><td>60.00</td><td>32.12</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>16.620000</td><td>---</td><td>22.89</td><td>50.00</td><td>27.41</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>17.275000</td><td>27.85</td><td>---</td><td>60.00</td><td>32.15</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> <tr><td>17.275000</td><td>---</td><td>22.41</td><td>50.00</td><td>27.59</td><td>1000.0</td><td>9.000</td><td>N</td><td>10.0</td></tr> </tbody> </table>                | Frequency (MHz) | QuasiPeak (dBμ) | CAverage (dBμ) | Limit (dBμ)     | Margin (dB)     | Meas. Time (ms) | Bandwidth (kHz) | Line | Corr. (dB) | 0.170000 | --- | 4.71  | 54.96 | 50.25 | 1000.0 | 9.000 | N  | 9.7 | 0.170000 | 22.77 | --- | 64.96 | 42.19 | 1000.0 | 9.000 | N  | 9.7 | 0.495000 | --- | 14.94 | 46.08 | 31.14 | 1000.0 | 9.000 | N  | 9.8 | 0.495000 | 22.50 | --- | 56.08 | 33.58 | 1000.0 | 9.000 | N  | 9.8 | 1.555000 | 11.14 | --- | 56.00 | 44.86 | 1000.0 | 9.000 | N  | 10.0 | 1.555000 | --- | 4.41 | 46.00 | 41.59 | 1000.0 | 9.000 | N  | 10.0 | 4.870000 | --- | 11.11 | 46.00 | 34.89 | 1000.0 | 9.000 | N  | 10.0 | 4.870000 | 17.58 | --- | 56.00 | 38.42 | 1000.0 | 9.000 | N  | 10.0 | 4.965000 | --- | 10.89 | 46.00 | 35.11 | 1000.0 | 9.000 | N  | 10.0 | 4.965000 | 18.96 | --- | 56.00 | 37.04 | 1000.0 | 9.000 | N  | 10.0 | 16.620000 | 27.88 | --- | 60.00 | 32.12 | 1000.0 | 9.000 | N  | 10.0 | 16.620000 | --- | 22.89 | 50.00 | 27.41 | 1000.0 | 9.000 | N  | 10.0 | 17.275000 | 27.85 | --- | 60.00 | 32.15 | 1000.0 | 9.000 | N  | 10.0 | 17.275000 | --- | 22.41 | 50.00 | 27.59 | 1000.0 | 9.000 | N  | 10.0 |
| Frequency (MHz) | QuasiPeak (dBμ)  | CAverage (dBμ)  | Limit (dBμ)     | Margin (dB)    | Meas. Time (ms) | Bandwidth (kHz) | Line            | Corr. (dB)      |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.170000        | ---  | 4.71            | 54.96           | 50.25          | 1000.0          | 9.000           | N               | 9.7             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.170000        | 22.77  | ---             | 64.96           | 42.19          | 1000.0          | 9.000           | N               | 9.7             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.495000        | ---  | 14.94           | 46.08           | 31.14          | 1000.0          | 9.000           | N               | 9.8             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 0.495000        | 22.50  | ---             | 56.08           | 33.58          | 1000.0          | 9.000           | N               | 9.8             |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 1.555000        | 11.14  | ---             | 56.00           | 44.86          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 1.555000        | ---  | 4.41            | 46.00           | 41.59          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.870000        | ---  | 11.11           | 46.00           | 34.89          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.870000        | 17.58  | ---             | 56.00           | 38.42          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.965000        | ---  | 10.89           | 46.00           | 35.11          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 4.965000        | 18.96  | ---             | 56.00           | 37.04          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 16.620000       | 27.88  | ---             | 60.00           | 32.12          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 16.620000       | ---  | 22.89           | 50.00           | 27.41          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 17.275000       | 27.85  | ---             | 60.00           | 32.15          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |
| 17.275000       | ---  | 22.41           | 50.00           | 27.59          | 1000.0          | 9.000           | N               | 10.0            |      |            |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |     |       |       |       |        |       |    |     |          |       |     |       |       |        |       |    |     |          |       |     |       |       |        |       |    |      |          |     |      |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |          |     |       |       |       |        |       |    |      |          |       |     |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |           |       |     |       |       |        |       |    |      |           |     |       |       |       |        |       |    |      |

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 The test results in the report only apply to the tested sample.



## Appendix A. Measurement equipment

| Equipment                           | Manufacturer          | Model               | Serial No. | Calibration interval | Calibration due |
|-------------------------------------|-----------------------|---------------------|------------|----------------------|-----------------|
| Spectrum Analyzer                   | R&S                   | FSV30               | 10076      | 1 year               | 2017.07.06      |
| 8360B Series Swept Signal Generator | HP                    | 83630B              | 3844A00786 | 1 year               | 2017.01.25      |
| PSG Analog Signal Generator         | AGILENT               | E8257C              | US42340237 | 1 year               | 2017.07.05      |
| DC Power Supply                     | HP                    | 6674A               | US36370369 | 1 year               | 2017.07.04      |
| Attenuator                          | Agilent               | 8493C               | 51401      | 1 year               | 2017.07.05      |
| Loop Antenna                        | R&S                   | HFH2-Z2.335.4711.52 | 826532     | 2 years              | 2017.03.03      |
| Trilog-broadband antenna            | SCHWARZBECK           | VULB 9163           | 9168-713   | 2 years              | 2017.05.15      |
| Horn Antenna                        | A.H.                  | SAS-571             | 781        | 2 years              | 2017.05.07      |
| High Pass Filter                    | WAINWRIGHT INSTRUMENT | WHJS3000-10TT       | 1          | 1 year               | 2017.07.04      |
| Low Pass Filter                     | WEINSCHEL             | WLK1.0/18G-10TT     | 1          | 1 year               | 2017.07.04      |
| Preamplifier                        | SCHWARZBECK           | BBV-9718            | 9718-246   | 1 year               | 2016.10.23      |
| EMI Test Receiver                   | R&S                   | ESR3                | 101781     | 1 year               | 2017.05.03      |
| EMI Test Receiver                   | R&S                   | ESU26               | 100552     | 1 year               | 2017.04.24      |
| EMI Test Receiver                   | R&S                   | ESR3                | 101783     | 1 year               | 2017.05.03      |
| LISN                                | R&S                   | ENV216              | 101137     | 1 year               | 2017.02.04      |

## Peripheral devices

| Device   | Manufacturer | Model No.     | Serial No.      |
|----------|--------------|---------------|-----------------|
| Notebook | SAMSUNG      | NT-R519-BA24J | ZKPA93ES900086Z |