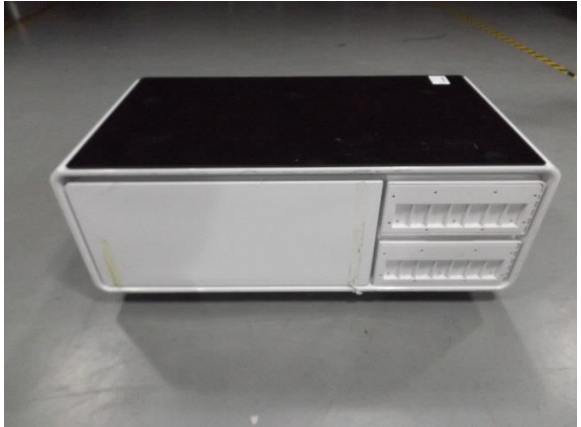


|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                            |                             |                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test Report No.:</i>                                                                                                                                                                                                                                                                                                                                                                                               | <b>16083659 001</b>                                                                                                                                                             | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>                                                  | <b>174065821</b>            | <b>Seite 1 von 29</b><br><i>Page 1 of 29</i> |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client Reference No.:</i>                                                                                                                                                                                                                                                                                                                                                                                      | <b>440253</b>                                                                                                                                                                   | <b>Auftragsdatum:</b><br><i>Order date.:</i>                                               | <b>11 May, 2017</b>         |                                              |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                           | Dongguan Alllike Electronics Co., Ltd.<br>Chuanha Development Zone, Machong Town 523141<br>P.R. China                                                                           |                                                                                            |                             |                                              |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                      | Multifunctional Integrated<br>Table Refrigerator                                                                                                                                | <b>FCC ID:</b><br><i>FCC ID:</i>                                                           | <b>BUQ-SOCTB300</b>         |                                              |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>                                                                                                                                                                                                                                                                                                                                                                               | SOCTB300XXXXXX<br>(Variable X can be "A" to "Z" or "0" to "9" or blank)                                                                                                         |                                                                                            |                             |                                              |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                 | TUV Rheinland - EMC service                                                                                                                                                     |                                                                                            |                             |                                              |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                              | CFR47 FCC Part 15: Subpart C Section 15.247<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209<br>FCC KDB Publication 447498 D01 v06 |                                                                                            |                             |                                              |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                            | <b>11 May, 2017</b>                                                                                                                                                             |         |                             |                                              |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                | <b>A000542369-001</b>                                                                                                                                                           |                                                                                            |                             |                                              |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                   | Refer to test report                                                                                                                                                            |                                                                                            |                             |                                              |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                              | Refer to section 2.1                                                                                                                                                            |                                                                                            |                             |                                              |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                           | TÜV Rheinland<br>(Guangdong) Ltd.                                                                                                                                               |                                                                                            |                             |                                              |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                    | Pass                                                                                                                                                                            |                                                                                            |                             |                                              |
| <b>geprüft von / tested by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                 | <b>kontrolliert von / reviewed by:</b>                                                     |                             |                                              |
|                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |       |                             |                                              |
| 10 Jul, 2017 Storm Shu / Assistant Project Manager                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 | 10 Jul, 2017 Max Y. C. Yao/ TC                                                             |                             |                                              |
| <b>Datum</b><br><i>Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Name/Stellung</b><br><i>Name/Position</i>                                                                                                                                    | <b>Unterschrift</b><br><i>Signature</i>                                                    | <b>Datum</b><br><i>Date</i> | <b>Name/Stellung</b><br><i>Name/Position</i> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                            |                             |                                              |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                 |                                                                                            |                             |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                            |                             |                                              |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged:</i> |                             |                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                 |                                                                                            |                             |                                              |
| <p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br/> P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet<br/> Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br/> P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</p> |                                                                                                                                                                                 |                                                                                            |                             |                                              |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>  |                                                                                                                                                                                 |                                                                                            |                             |                                              |

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

RESULT: *Passed*

**5.1.2 PEAK OUTPUT POWER**

RESULT: *Passed*

**5.1.3 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH**

RESULT: *Passed*

**5.1.4 SPURIOUS EMISSION**

RESULT: *Passed*

**5.1.5 20dB BANDWIDTH**

RESULT: *Passed*

**5.1.6 FREQUENCY SEPARATION**

RESULT: *Passed*

**5.1.7 NUMBER OF HOPPING FREQUENCY**

RESULT: *Passed*

**5.1.8 TIME OF OCCUPANCY**

RESULT: *Passed*

**5.1.9 CONDUCTED EMISSIONS**

RESULT: *Passed*

**6.1.1 ELECTROMAGNETIC FIELDS**

RESULT: *Passed*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

# 2 Test Sites

## 2.1 Test Facilities

**Shenzhen STS Test Services Co.,Ltd.**

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,  
Fuyong Street, Bao'an District, Shenzhen, Guangdong,China

The tests at these test sites have been conducted under the supervision of a TÜV Rheinland engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| Name of Equipment                                                                                                                                                                                 | Manufacturer                       | Model      | Serial Number | Calibration Due |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------|---------------|-----------------|
| <b>carrier frequencies separated/ hopping channel number/ dwell time/ maximum peak output power/100kHz bandwidth of frequency band edge/ Spurious Emissions at Antenna Port/ Restricted Bands</b> |                                    |            |               |                 |
| Spectrum Analyzer                                                                                                                                                                                 | Agilent                            | E4407B     | MY50140340    | 2017-10-22      |
| <b>Conducted Emissions</b>                                                                                                                                                                        |                                    |            |               |                 |
| EMI Receiver                                                                                                                                                                                      | R&S                                | ESCI       | 100529        | 2018-03-24      |
| L.I.S.N                                                                                                                                                                                           | SCHWARZBECK                        | NSLK 8127  | 8127450       | 2018-08-18      |
| <b>Radiated Spurious Emissions</b>                                                                                                                                                                |                                    |            |               |                 |
| Receiver                                                                                                                                                                                          | R&S                                | ESU26      | 100526        | 2018-03-08      |
| Loop antenna                                                                                                                                                                                      | R&S                                | HFH2-Z2    | 881058/58     | 2018-04-17      |
| Biconical Log-periodic Antenna                                                                                                                                                                    | ETS.LINDGREN                       | 3142C      | 00075971      | 2018-04-17      |
| Horn antenna                                                                                                                                                                                      | SCHWARZBECK                        | BBHA9120D  | D752          | 2018-03-03      |
| Biconical Log-periodic Antenna                                                                                                                                                                    | TESEQ                              | CBL6111D   | 45873         | 2017-10-24      |
| Horn Antenna                                                                                                                                                                                      | Schwarzbeck                        | BBHA 9120D | 9120D-1344    | 2018-03-06      |
| Per-Amplifier (0.1-26.5GHz)                                                                                                                                                                       | Compliance Directions systems Inc. | PAP-0126   | 25002         | 2018-01-03      |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is 2.40dB.

Uncertainty for radiated emissions measurements is 4.40dB (30M-1GHz) and 4.40dB (> 1GHz).

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%.

## 2.6 Location of original data

The original copies of test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) file for certification follow-up purposes.

## 2.7 Status of facility used for testing

**Shenzhen STS Test Services Co., Ltd.**

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street,  
Bao'an District, Shenzhen, Guangdong, China

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The submitted sample SOCTB300XXXXXX is Multifunctional Integrated Table Refrigerator for household use. They can be used in following electromagnetic environment: residential, commercial and light industrial, urban outdoors. They are the apparatus intended for floor standing.

SOCTB300XXXXXX

- 1) The first and second
- 2) The third and fourth“ XX ”denotes the table glass COLOR ;
- 3) The last two“ XX ”denotes table version,  
e.g. Selling Country/Market, different packaging or the special code and so on.  
\*\*\* ALL “ XXXXXX ”can be changed to any alphabets from“ A ”to“ Z ”, or any  
Numbers from“ 0 ” to “ 9 ”, or with BLANKS marks directly if unnecessary.

According to the above information, full tests were performed on model  
**SOCTB300WHBK.**

#### 3.2 Ratings and System Details

**Table 2: Rating of EUT**

|                   |                                               |
|-------------------|-----------------------------------------------|
| Kind of Equipment | Multifunctional Integrated Table Refrigerator |
| Type Designation  | SOCTB300XXXXXX                                |
| FCC ID            | BUQ-SOCTB300                                  |



**Table 3: Technical Specification of Bluetooth (BDR & EDR)**

| Technical Specification   | Value                                  |
|---------------------------|----------------------------------------|
| Operating Frequency band  | 2402 – 2480 MHz                        |
| Bluetooth Core Version    | 2.1+EDR                                |
| Channel separation        | 1MHz                                   |
| Extreme Temperature Range | -10°C to +40°C                         |
| Operation Voltage         | 100~240Vac, 50/60Hz;                   |
| Modulation                | GFSK, 8DPSK, $\pi/4$ DQPSK             |
| Antenna Type              | Internal Antenna, Non-User Replaceable |
| Antenna Gain              | 0 dBi                                  |
| RF Output Power           | 0dBm                                   |

**Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 0          | 2402.00         | 20         | 2422.00         | 40         | 2442.00         | 60         | 2462.00         |
| 1          | 2403.00         | 21         | 2423.00         | 41         | 2443.00         | 61         | 2463.00         |
| 2          | 2404.00         | 22         | 2424.00         | 42         | 2444.00         | 62         | 2464.00         |
| 3          | 2405.00         | 23         | 2425.00         | 43         | 2445.00         | 63         | 2465.00         |
| 4          | 2406.00         | 24         | 2426.00         | 44         | 2446.00         | 64         | 2466.00         |
| 5          | 2407.00         | 25         | 2427.00         | 45         | 2447.00         | 65         | 2467.00         |
| 6          | 2408.00         | 26         | 2428.00         | 46         | 2448.00         | 66         | 2468.00         |
| 7          | 2409.00         | 27         | 2429.00         | 47         | 2449.00         | 67         | 2469.00         |
| 8          | 2410.00         | 28         | 2430.00         | 48         | 2450.00         | 68         | 2470.00         |
| 9          | 2411.00         | 29         | 2431.00         | 49         | 2451.00         | 69         | 2471.00         |
| 10         | 2412.00         | 30         | 2432.00         | 50         | 2452.00         | 70         | 2472.00         |
| 11         | 2413.00         | 31         | 2433.00         | 51         | 2453.00         | 71         | 2473.00         |
| 12         | 2414.00         | 32         | 2434.00         | 52         | 2454.00         | 72         | 2474.00         |
| 13         | 2415.00         | 33         | 2435.00         | 53         | 2455.00         | 73         | 2475.00         |
| 14         | 2416.00         | 34         | 2436.00         | 54         | 2456.00         | 74         | 2476.00         |
| 15         | 2417.00         | 35         | 2437.00         | 55         | 2457.00         | 75         | 2477.00         |
| 16         | 2418.00         | 36         | 2438.00         | 56         | 2458.00         | 76         | 2478.00         |
| 17         | 2419.00         | 37         | 2439.00         | 57         | 2459.00         | 77         | 2479.00         |
| 18         | 2420.00         | 38         | 2440.00         | 58         | 2460.00         | 78         | 2480.00         |
| 19         | 2421.00         | 39         | 2441.00         | 59         | 2461.00         | /          | /               |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Traditional Bluetooth
  - 1. Transmitting on low channel
  - 2. Transmitting on middle channel
  - 3. Transmitting on high channel
- B. On, Traditional Bluetooth on Hopping channel
- C. On, Bluetooth connecting mode
- D. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- 1. Block Diagram
- 2. Circuit Diagram
- 3. Operation Description
- 4. PCB Layout
- 5. BOM
- 6. FCC label and location
- 7. User Manual
- 8. Internal Photos
- 9. External Photos
- 10. Application form

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level.  
The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.  
All testing were performed according to the procedures in ANSI C63.4: 2014 & ANSI C63.10: 2013.

### 4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

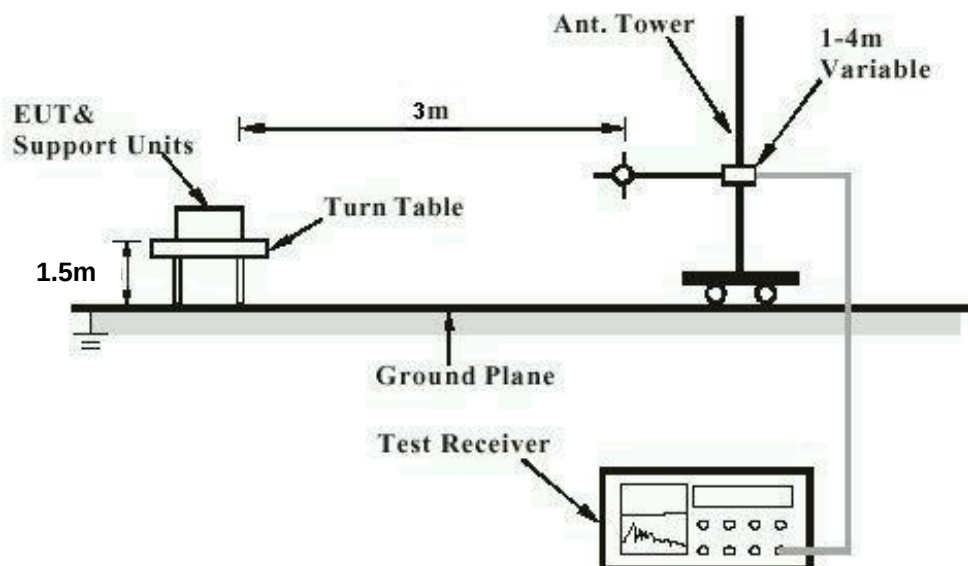
| Kind of Equipment | Manufacturer | Model Name    | S/N        |
|-------------------|--------------|---------------|------------|
| Notebook          | Lenovo       | E46A          | EB24320428 |
| AC/DC Adapter     | Yingna       | YN6W-050100UU | /          |
| iPhone            | Apple        | A1586         | /          |

### 4.4 Countermeasures to achieve EMC Compliance

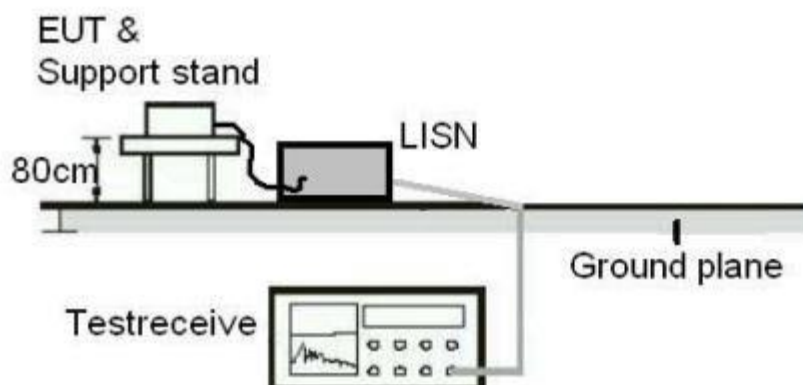
The test sample, which has been tested, contained the noise suppression parts as described in the technical document. No additional measures were employed to achieve compliance.

## 4.5 Test set-up

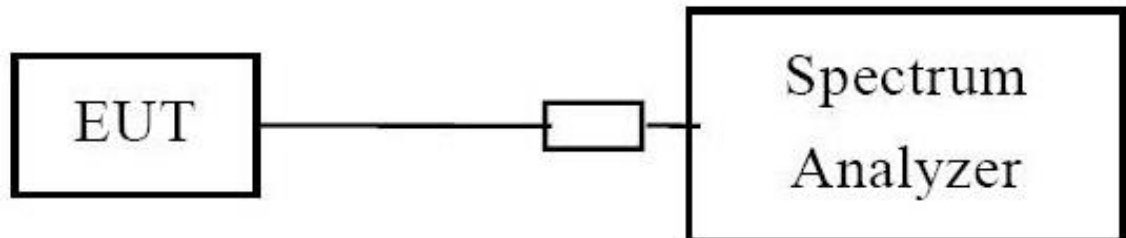
### Diagram of Measurement Configuration for Radiation Test



### Diagram of Measurement Configuration for Mains Conduction Measurement



**Diagram of Measurement Configuration for Conducted Transmitter Measurement**



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:**

**Passed**

**Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

Limits : the use of antennas with directional gains that  
do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

For more details, refer to EUT photo.

**Prüfbericht - Nr.:** 16083659 001

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## 5.1.2 Peak Output Power

**RESULT:**

**Passed**

### Test Specification

|                   |                                  |
|-------------------|----------------------------------|
| Test standard     | : FCC Part 15.247(b)(1) & (b)(3) |
| Basic standard    | : ANSI C63.10: 2013              |
| Limits            | : BDR/ EDR: 0.125 Watts          |
| Kind of test site | : Shielded Room                  |

### Test Setup

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 02 Jul, 2017        |
| Power supply         | : AC 120V             |
| Operation mode       | : A (See 3.3)         |
| Test channel         | : Low / Middle / High |
| Ambient temperature  | : 23.2 °C             |
| Relative Humidity    | : 55 %                |
| Atmospheric pressure | : 101 kPa             |

**Table 5: Test result of Peak Output Power, GFSK**

| Channel        | Channel Frequency (MHz) | Peak Output Power |         | Limit |
|----------------|-------------------------|-------------------|---------|-------|
|                |                         | (dBm)             | (W)     | (W)   |
| Low Channel    | 2402                    | -1.271            | 0.00075 | 0.125 |
| Middle Channel | 2441                    | -2.059            | 0.00062 | 0.125 |
| High Channel   | 2480                    | -4.342            | 0.00037 | 0.125 |

**Table 6: Test result of Peak Output Power,  $\pi/4$ DQPSK**

| Channel        | Channel Frequency (MHz) | Peak Output Power |         | Limit |
|----------------|-------------------------|-------------------|---------|-------|
|                |                         | (dBm)             | (W)     | (W)   |
| Low Channel    | 2402                    | -1.166            | 0.00076 | 0.125 |
| Middle Channel | 2441                    | -2.042            | 0.00062 | 0.125 |
| High Channel   | 2480                    | -4.397            | 0.00036 | 0.125 |

**Table 7: Test result of Peak Output Power, 8DPSK**

| Channel        | Channel Frequency (MHz) | Peak Output Power |         | Limit |
|----------------|-------------------------|-------------------|---------|-------|
|                |                         | (dBm)             | (W)     | (W)   |
| Low Channel    | 2402                    | -1.146            | 0.00077 | 0.125 |
| Middle Channel | 2441                    | -2.071            | 0.00062 | 0.125 |
| High Channel   | 2480                    | -4.383            | 0.00036 | 0.125 |



### 5.1.3 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

**RESULT:**

**Passed**

#### Test Specification

Test standard : FCC Part 15.247(d)  
Basic standard : ANSI C63.10: 2013  
Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);

In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

#### Test Setup

Date of testing : 02 Jul, 2017  
Power supply : 120Vac, 60Hz  
Operation mode : A (See 3.3)  
Test channel : Low / Middle / High  
Ambient temperature : 23.2 °C  
Relative Humidity : 61 %  
Atmospheric pressure : 101 kPa

All emissions are more than 20dB below fundamental, compliance is achieved as well.

For the measurement records, refer to the appendix 1.

## 5.1.4 Spurious Emission

### RESULT:

**Passed**

#### Test Specification

|                   |                                            |
|-------------------|--------------------------------------------|
| Test standard     | : FCC Part 15.247(d), FCC Part 15.205      |
| Basic standard    | : ANSI C63.10: 2013                        |
| Limits            | : Refer to 15.209(a) of FCC part 15.247(d) |
| Kind of test site | : 3m Semi-anechoic chamber                 |

#### Test Setup

|                      |                            |
|----------------------|----------------------------|
| Date of testing      | : Refer to the appendix 1. |
| Power supply         | : 120Vac, 60Hz             |
| Operation mode       | : A(See 3.3)               |
| Test channel         | : Low / Middle / High      |
| Ambient temperature  | : Refer to the appendix 1. |
| Relative Humidity    | : Refer to the appendix 1. |
| Atmospheric pressure | : Refer to the appendix 1. |

#### Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test setup photos.

Testing was carried out within frequency range 9kHz to the tenth harmonic. For details refer to appendix 1. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report. Due to the small size of the product and that there are no inductive components of significant size, 9kHz to 30MHz frequency range is not tested based on technical judgment.

The band-edge emissions were lowest as data in appendix1, so it were not tested.

For the measurement records, refer to the appendix 1.

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### 5.1.5 20dB Bandwidth

**RESULT:**

**Passed**

#### Test Specification

|                   |                         |
|-------------------|-------------------------|
| Test standard     | : FCC Part 15.247(a)(1) |
| Basic standard    | : ANSI C63.10: 2013     |
| Kind of test site | : Shielded Room         |

#### Test Setup

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 02 Jul, 2017        |
| Power supply         | : 120Vac, 60Hz        |
| Operation mode       | : A (See 3.3)         |
| Test channel         | : Low / Middle / High |
| Ambient temperature  | : 25 °C               |
| Relative Humidity    | : 55 %                |
| Atmospheric pressure | : 101 kPa             |

**Table 8: Test result of 20dB Bandwidth, GFSK mode**

| Channel      | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (MHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel  | 2402                    | 839.7                | /           | Pass   |
| Mid Channel  | 2441                    | 839.7                | /           | Pass   |
| High Channel | 2480                    | 838.0                | /           | Pass   |

**Table 9: Test result of 20dB Bandwidth,  $\pi/4$ DQPSK**

| Channel      | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (MHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel  | 2402                    | 1345.0               | /           | Pass   |
| Mid Channel  | 2441                    | 1345.0               | /           | Pass   |
| High Channel | 2480                    | 1340.0               | /           | Pass   |

**Table 10: Test result of 20dB Bandwidth, 8DPSK**

| Channel      | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (MHz) | Result |
|--------------|-------------------------|----------------------|-------------|--------|
| Low Channel  | 2402                    | 1348.0               | /           | Pass   |
| Mid Channel  | 2441                    | 1345.0               | /           | Pass   |
| High Channel | 2480                    | 1343.0               | /           | Pass   |

## 5.1.6 Frequency Separation

### RESULT:

**Passed**

### Test Specification

Test standard : FCC Part 15.247(a)(1)  
 Basic standard : ANSI C63.10: 2013  
 Limits :  $\geq 25\text{kHz}$  or  $2/3$  of  $20\text{dB}$  bandwidth, whichever is greater  
 Kind of test site : Shielded Room

### Test Setup

Date of testing : 02 Jul, 2017  
 Power supply : 120Vac, 60Hz  
 Operation mode : A (See 3.3)  
 Test channel : Low / Middle / High  
 Ambient temperature :  $23.2\text{ }^{\circ}\text{C}$   
 Relative Humidity : 55 %  
 Atmospheric pressure : 101 kPa

**Table 11: Test result of Frequency Separation**

| Channel           | Channel Frequency (MHz) | Measured Channel Separation (MHz) | Limit (kHz)                      | Result |
|-------------------|-------------------------|-----------------------------------|----------------------------------|--------|
| Low Channel       | 2402                    | 1.0                               | ≥ 25kHz or 2/3 of 20dB bandwidth | Pass   |
| Adjacency Channel | 2403                    |                                   |                                  |        |
| Mid Channel       | 2441                    | 1.0                               |                                  | Pass   |
| Adjacency Channel | 2442                    |                                   |                                  |        |
| High Channel      | 2480                    | 1.0                               |                                  | Pass   |
| Adjacency Channel | 2479                    |                                   |                                  |        |

### 5.1.7 Number of Hopping Frequency

**RESULT:**

**Passed**

**Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
Basic standard : ANSI C63.10: 2013  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 02 Jul, 2017  
Power supply : 120Vac, 60Hz  
Operation mode : B (See 3.3)  
Ambient temperature : 23.2 °C  
Relative Humidity : 61 %  
Atmospheric pressure : 101 kPa

**Table 12: Test result of Number of hopping frequency**

| Frequency Range                  | Measured Quantity of Hopping Channel | Limit     | Result |
|----------------------------------|--------------------------------------|-----------|--------|
| <u>2400</u> to <u>2483.5</u> MHz | 79                                   | $\geq 15$ | Pass   |

### 5.1.8 Time of Occupancy

**RESULT:**

**Passed**

**Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
Basic standard : ANSI C63.10: 2013  
Limits : 0.4s  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 02 Jun, 2017  
Power supply : 120Vac, 60Hz  
Operation mode : A (See 3.3)  
Test channel : Low / Middle / High  
Ambient temperature : 23.2 °C  
Relative Humidity : 61 %  
Atmospheric pressure : 101 kPa

**Table 13: Test result of Time of Occupancy, 8DPSK mode**

| Channel      | Data Mode | Pulse width (ms) | Measured Dwell time (s) | Limit (s) | Result |
|--------------|-----------|------------------|-------------------------|-----------|--------|
| Low Channel  | DH1       | 0.38             | 0.122                   | 0.4       | Pass   |
|              | DH3       | 1.64             | 0.262                   | 0.4       | Pass   |
|              | DH5       | 2.89             | 0.308                   | 0.4       | Pass   |
| Mid Channel  | DH1       | 0.38             | 0.122                   | 0.4       | Pass   |
|              | DH3       | 1.64             | 0.262                   | 0.4       | Pass   |
|              | DH5       | 2.89             | 0.308                   | 0.4       | Pass   |
| High Channel | DH1       | 0.38             | 0.122                   | 0.4       | Pass   |
|              | DH3       | 1.64             | 0.262                   | 0.4       | Pass   |
|              | DH5       | 2.89             | 0.308                   | 0.4       | Pass   |

**Table 14: Test result of Time of Occupancy, GFSK mode**

| Channel      | Data Mode | Pulse width (ms) | Measured Dwell time (s) | Limit (s) | Result |
|--------------|-----------|------------------|-------------------------|-----------|--------|
| Low Channel  | DH1       | 0.37             | 0.118                   | 0.4       | Pass   |
|              | DH3       | 1.63             | 0.261                   | 0.4       | Pass   |
|              | DH5       | 2.88             | 0.307                   | 0.4       | Pass   |
| Mid Channel  | DH1       | 0.37             | 0.118                   | 0.4       | Pass   |
|              | DH3       | 1.63             | 0.261                   | 0.4       | Pass   |
|              | DH5       | 2.88             | 0.307                   | 0.4       | Pass   |
| High Channel | DH1       | 0.37             | 0.118                   | 0.4       | Pass   |
|              | DH3       | 1.63             | 0.261                   | 0.4       | Pass   |
|              | DH5       | 2.88             | 0.307                   | 0.4       | Pass   |

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds



### 5.1.9 Conducted Emissions

**RESULT:**

**Passed**

**Test Specification**

|                   |                      |
|-------------------|----------------------|
| Test standard     | : FCC part 15.207    |
| Basic standard    | : ANSI C63.4: 2014   |
| Frequency range   | : 0.15 – 30MHz       |
| Limits            | : FCC Part 15.207(a) |
| Kind of test site | : Shielded Room      |

**Test Setup**

|                      |                 |
|----------------------|-----------------|
| Date of testing      | : 02 Jul, 2017  |
| Power supply         | : 120Vac, 60Hz  |
| Operation mode       | : D (See 3.3)   |
| Earthing             | : Not connected |
| Ambient temperature  | : 23.2 °C       |
| Relative Humidity    | : 61 %          |
| Atmospheric pressure | : 101 kPa       |

For the measurement records, refer to the appendix 1.

## **6 Safety Human exposure**

### **6.1 Radio Frequency Exposure Compliance**

#### **6.1.1 Electromagnetic Fields**

**RESULT:**

**Passed**

**Test Specification**

Test standard : FCC KDB Publication 447498 v06

The minimum distance for the EUT is less than 5mm.  
Since maximum peak output power of the transmitter is 1mW <10 mW.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

## 7 Photographs of the Test Set-Up

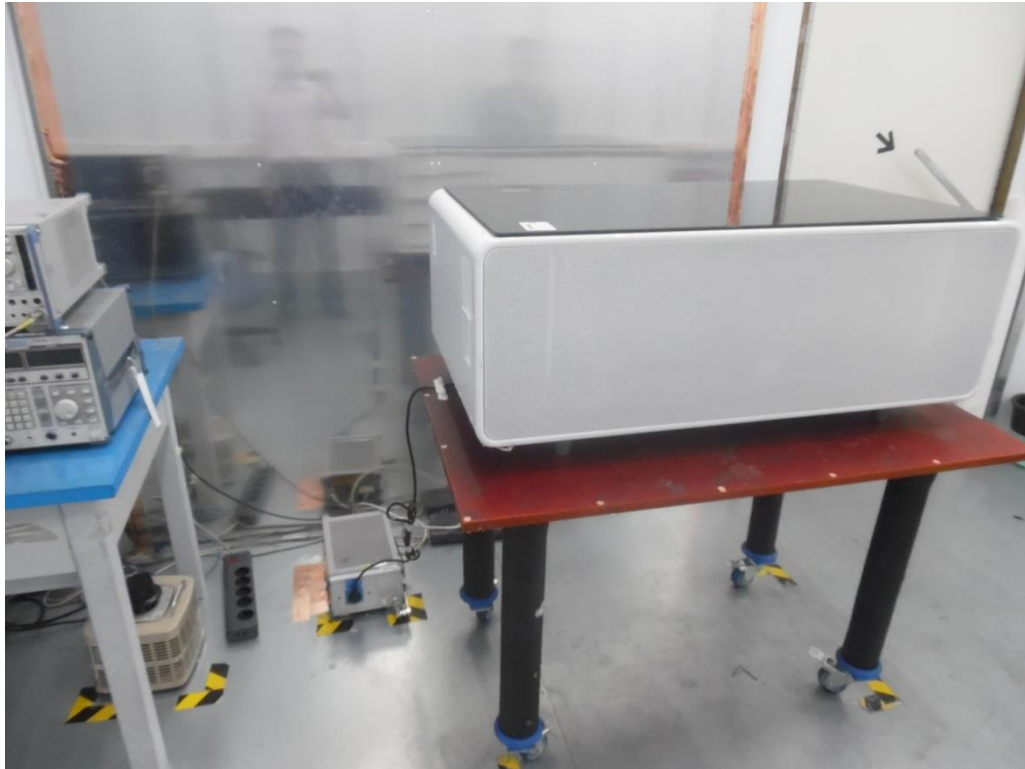
**Photograph 1: Set-up for Spurious Emissions (30MHz-1GHz)**



**Photograph 2: Set-up for Spurious Emissions (above 1GHz)**



**Photograph 3: Set-up for Conducted Emissions**



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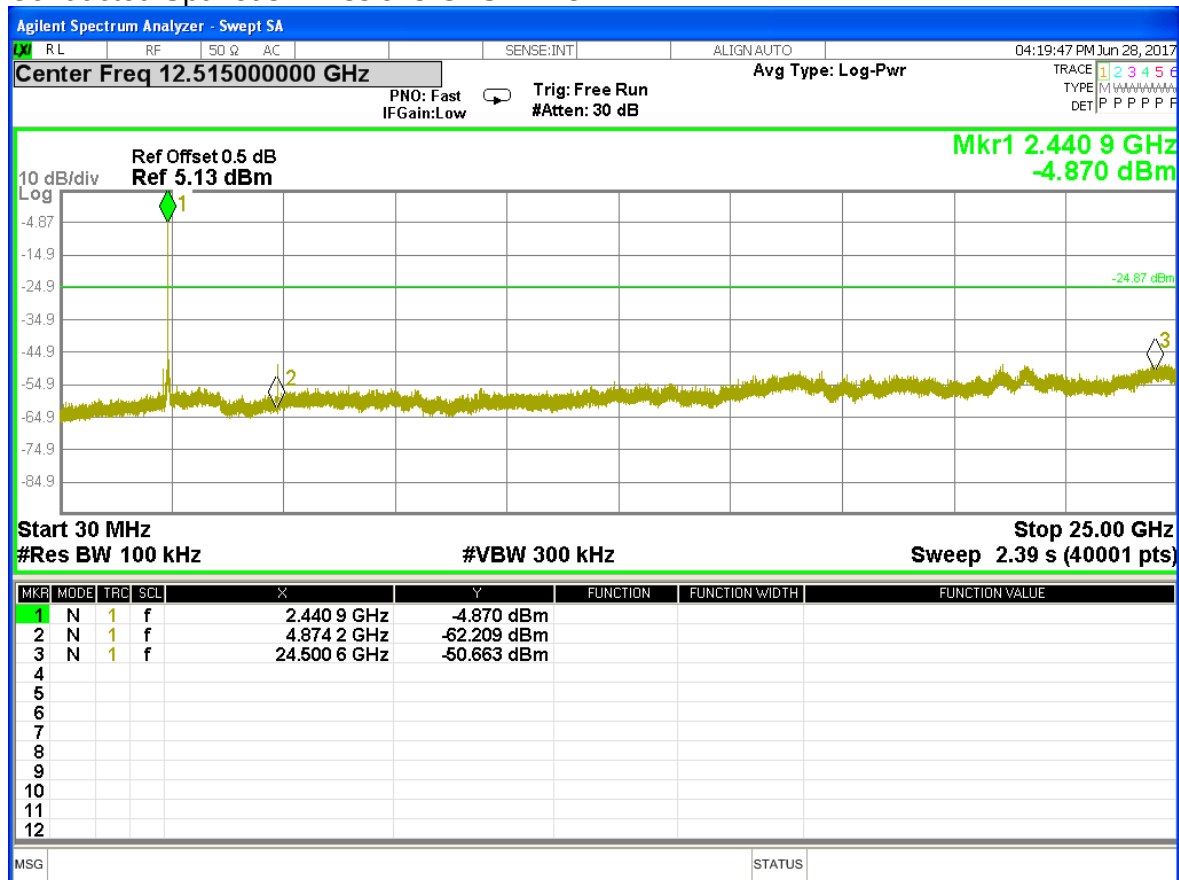
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## Conducted Spurious Emissions-GFSK-M CH



**Prüfbericht - Nr.:**

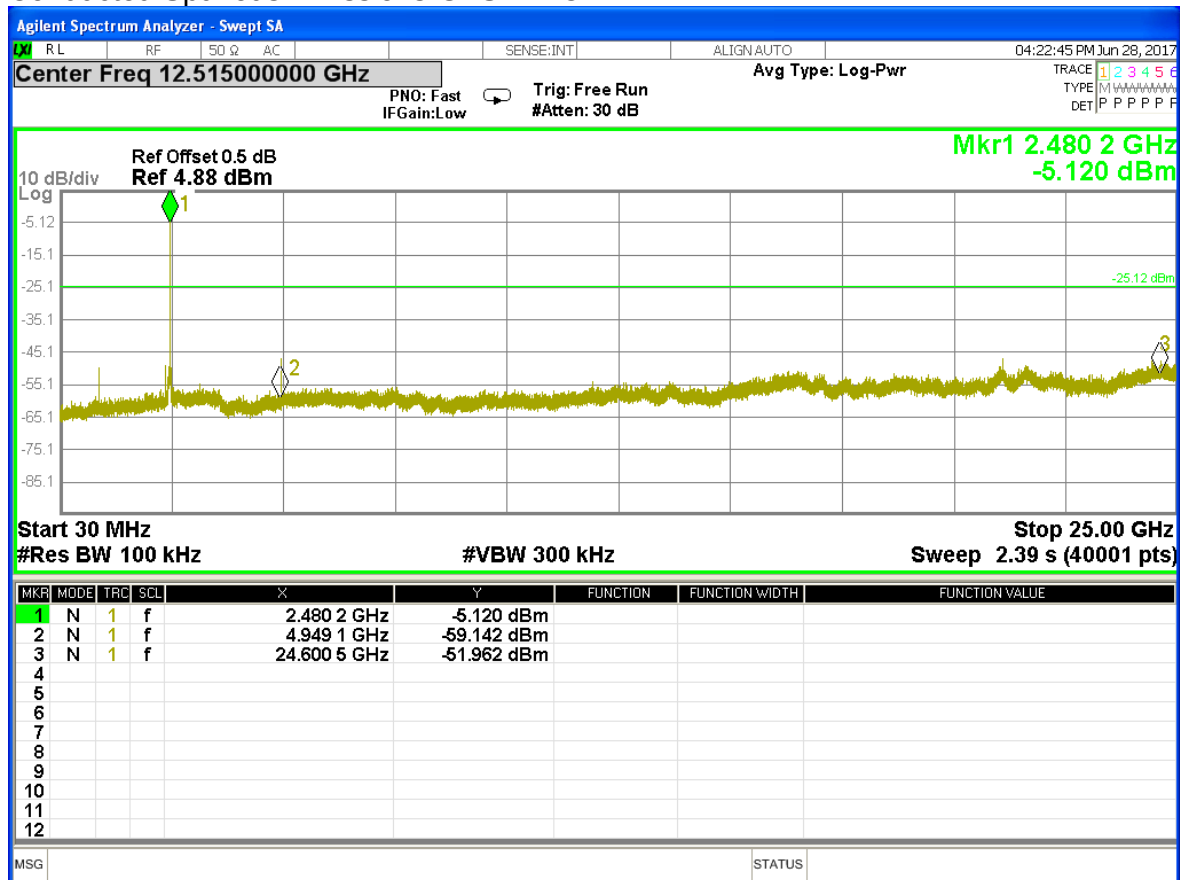
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## Conducted Spurious Emissions-GFSK-H CH





**Prüfbericht - Nr.:**

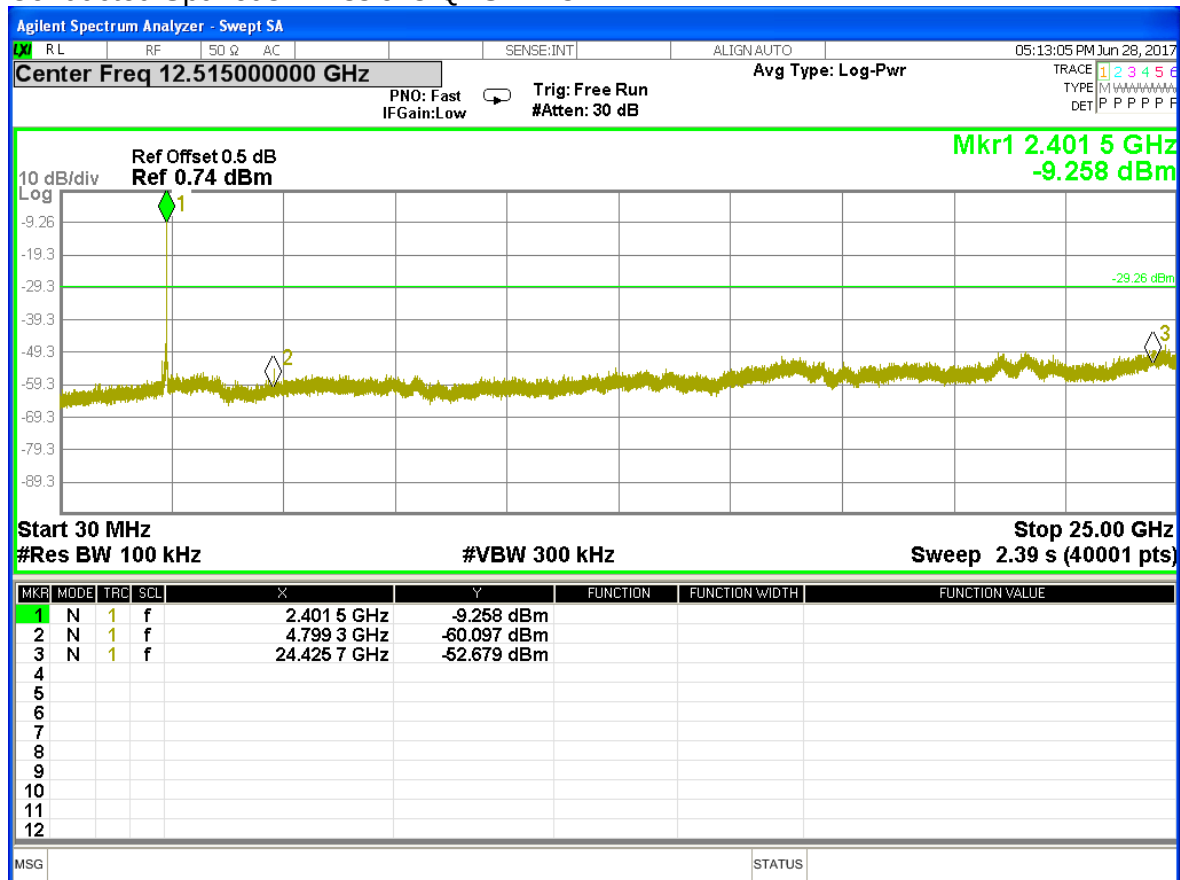
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## Conducted Spurious Emissions-QPSK-L CH



**Prüfbericht - Nr.:**

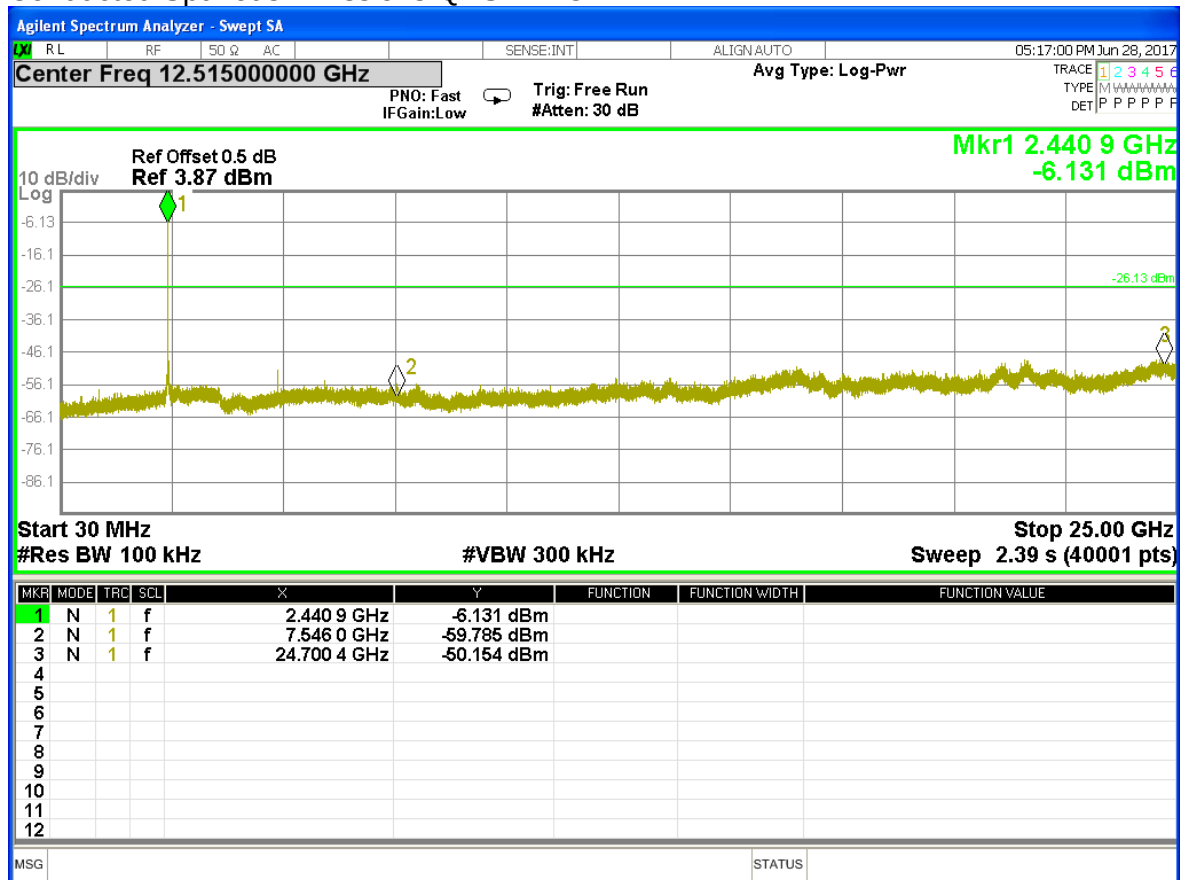
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## Conducted Spurious Emissions-QPSK-M CH



**Prüfbericht - Nr.:**

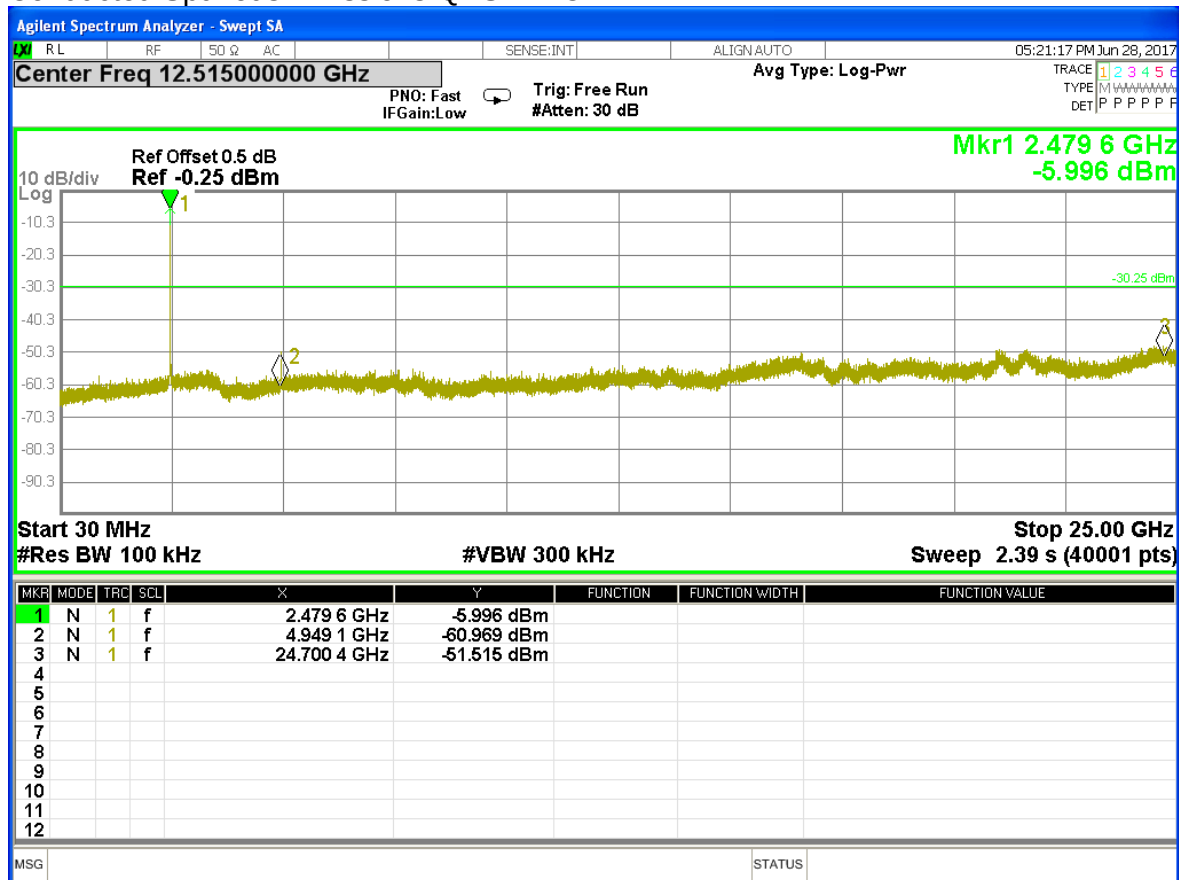
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## Conducted Spurious Emissions-QPSK-H CH



Agilent Spectrum Analyzer - Swept SA

Center Freq 12.51500000 GHz

PNO: Fast IFGain: Low

Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr

05:27:14 PM Jun 28, 2017

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W W W

DET P P P P P P P P

10 dB/div

Log

Ref Offset 0.5 dB

Ref -0.09 dBm

Mkr1 2.403 4 GHz

-10.094 dBm

-30.62 dBm

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 25.00 GHz

Sweep 2.39 s (40001 pts)

| MKR | MODE | TRC | SCL | X            | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|--------------|-------------|----------|----------------|----------------|
| 1   | N    | 1   | f   | 2.403 4 GHz  | -10.094 dBm |          |                |                |
| 2   | N    | 1   | f   | 3.276 1 GHz  | -60.265 dBm |          |                |                |
| 3   | N    | 1   | f   | 24.400 7 GHz | -52.201 dBm |          |                |                |
| 4   |      |     |     |              |             |          |                |                |
| 5   |      |     |     |              |             |          |                |                |
| 6   |      |     |     |              |             |          |                |                |
| 7   |      |     |     |              |             |          |                |                |
| 8   |      |     |     |              |             |          |                |                |
| 9   |      |     |     |              |             |          |                |                |
| 10  |      |     |     |              |             |          |                |                |
| 11  |      |     |     |              |             |          |                |                |
| 12  |      |     |     |              |             |          |                |                |

MSG

STATUS

**Prüfbericht - Nr.:**

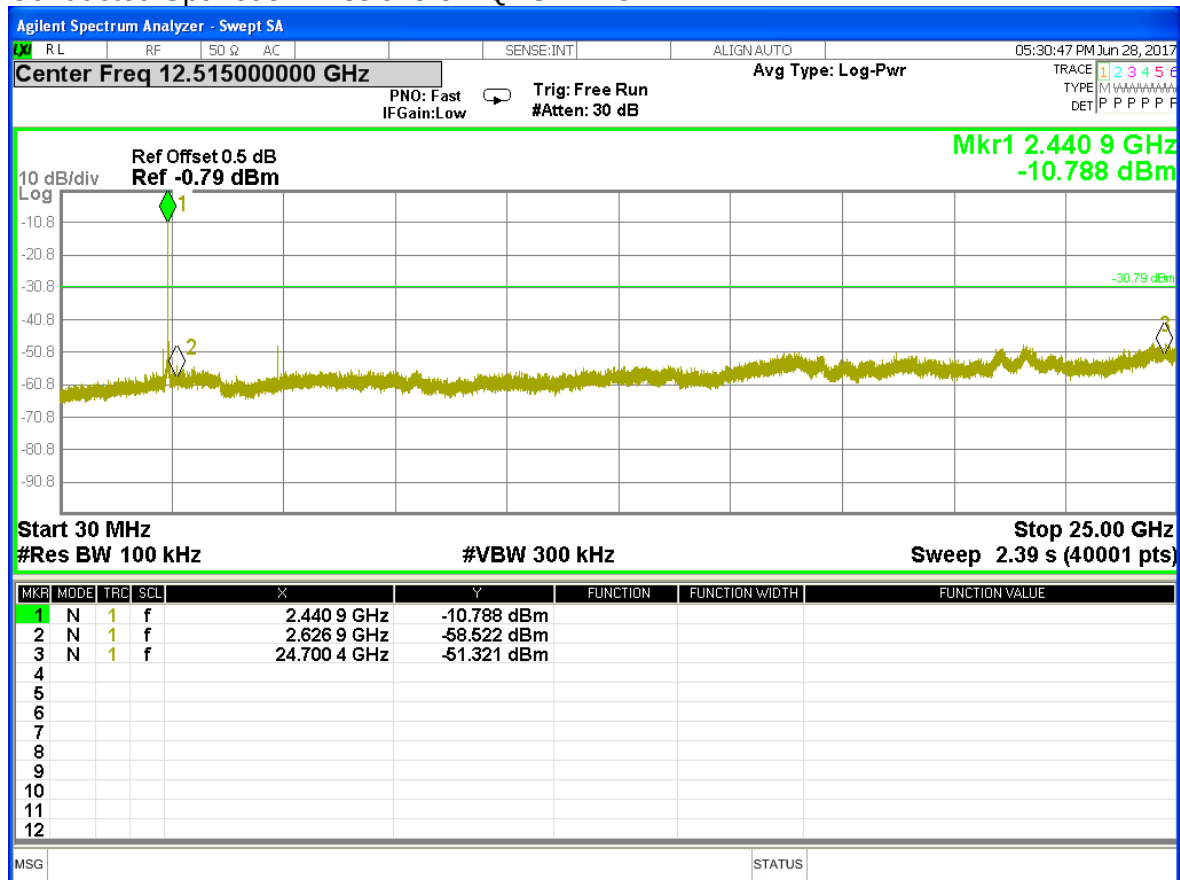
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## Conducted Spurious Emissions-8-DQPSK-M CH



**Prüfbericht - Nr.:**

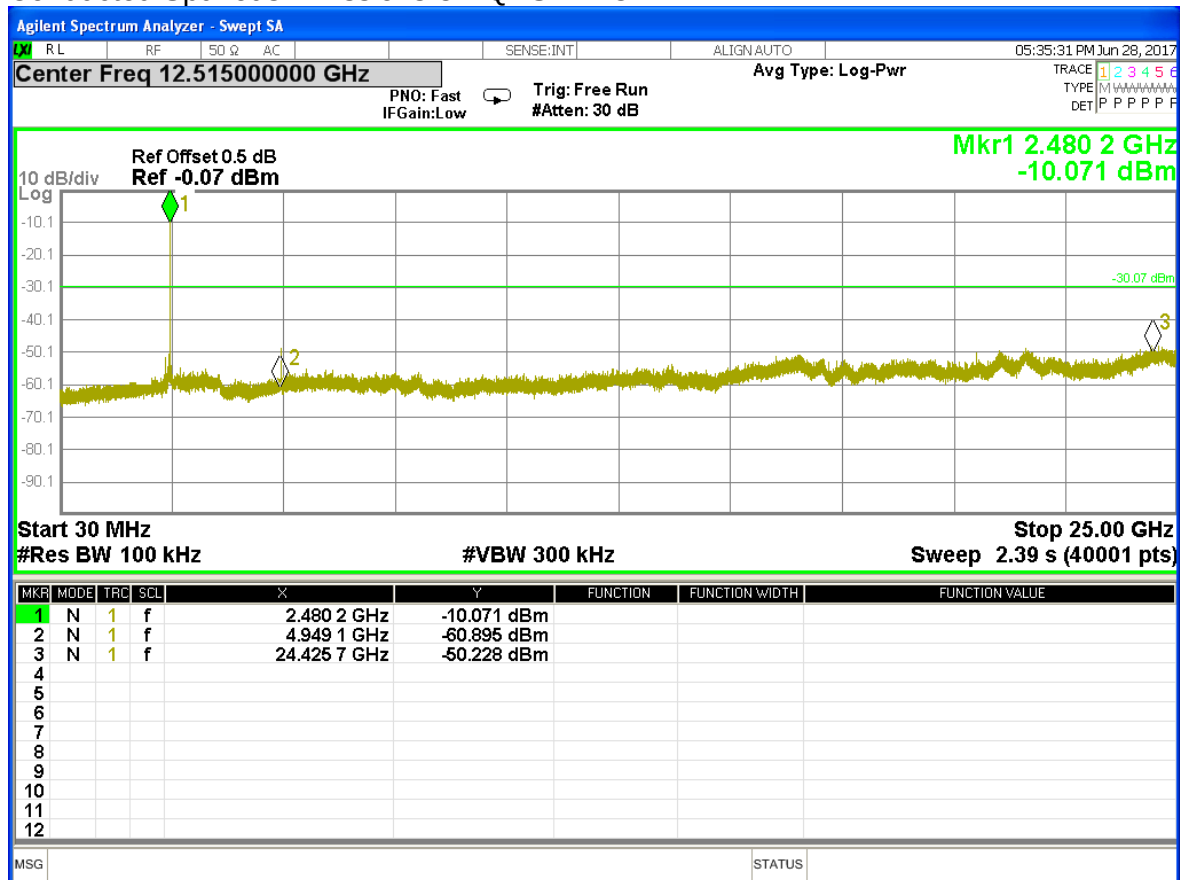
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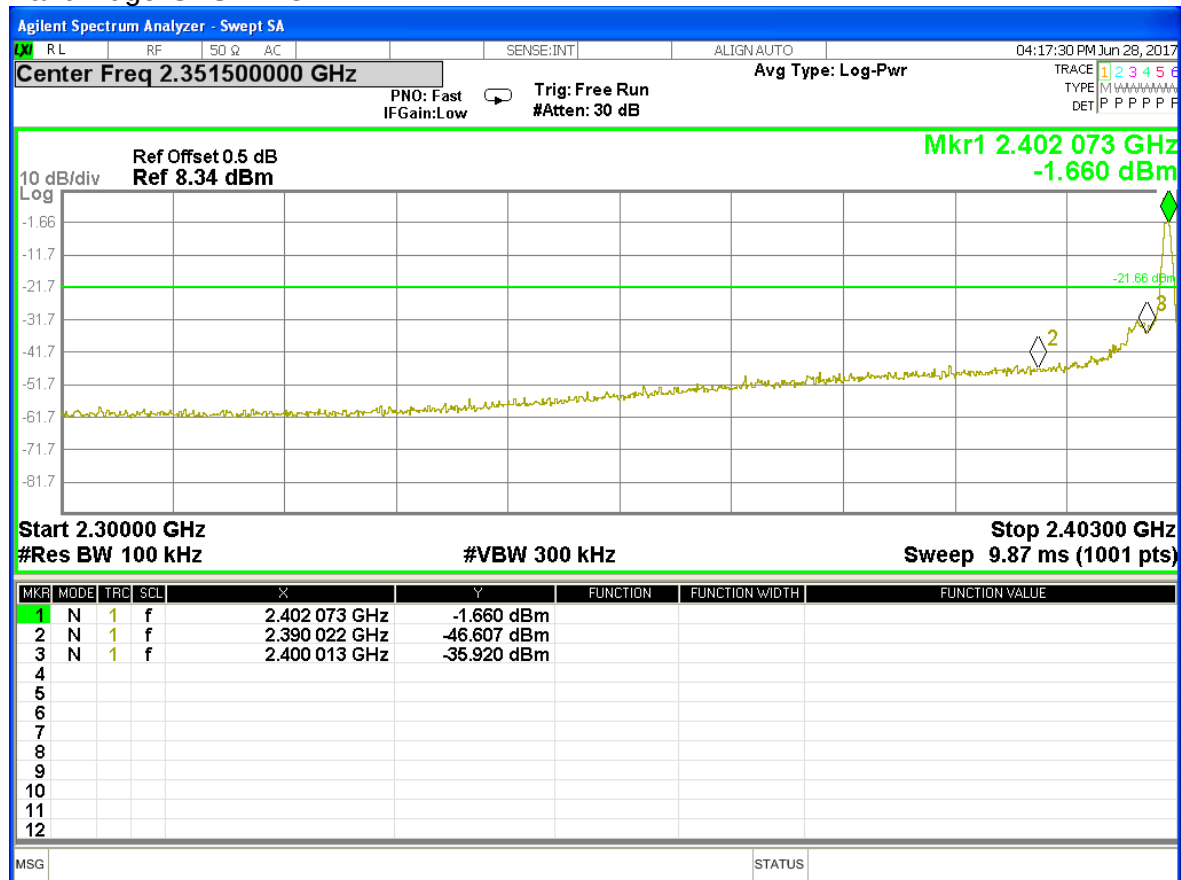
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## Conducted Spurious Emissions-8-DQPSK-H CH





Prüfbericht - Nr.:

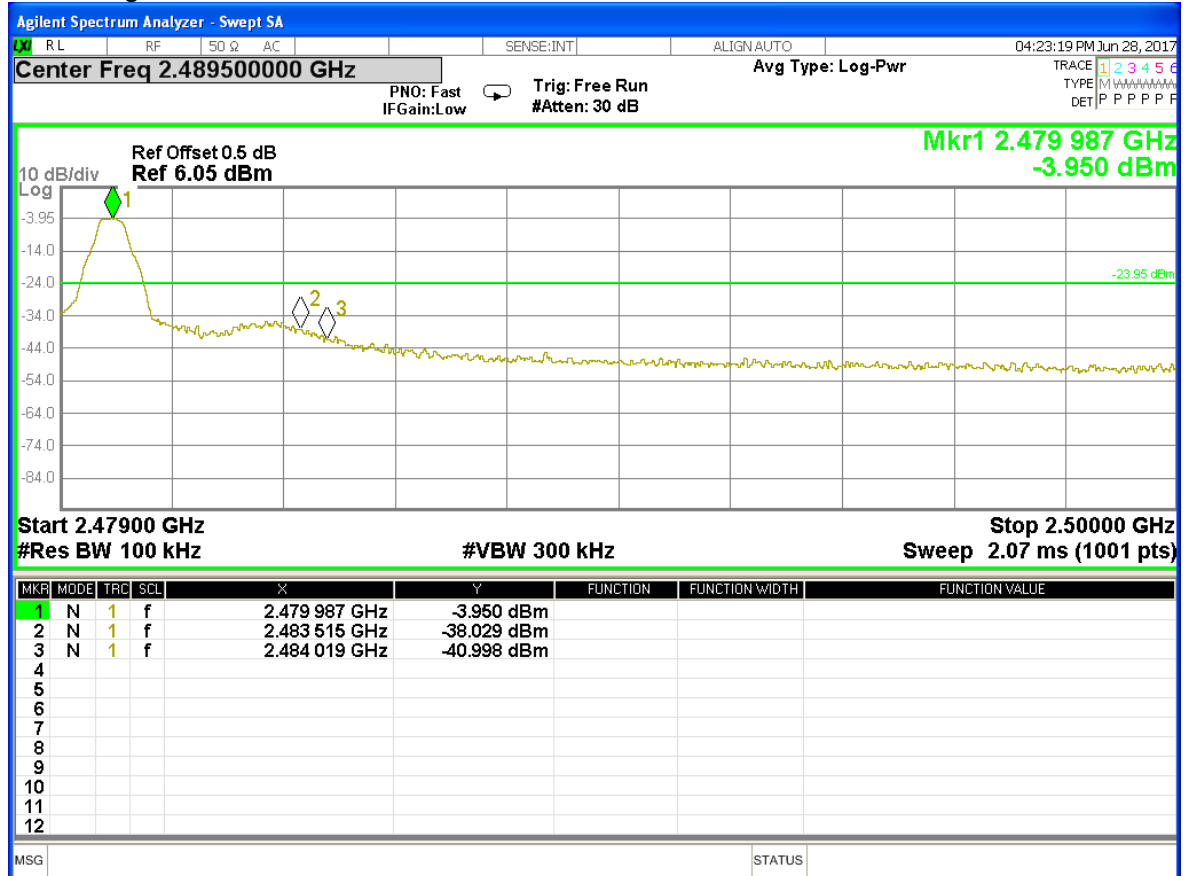
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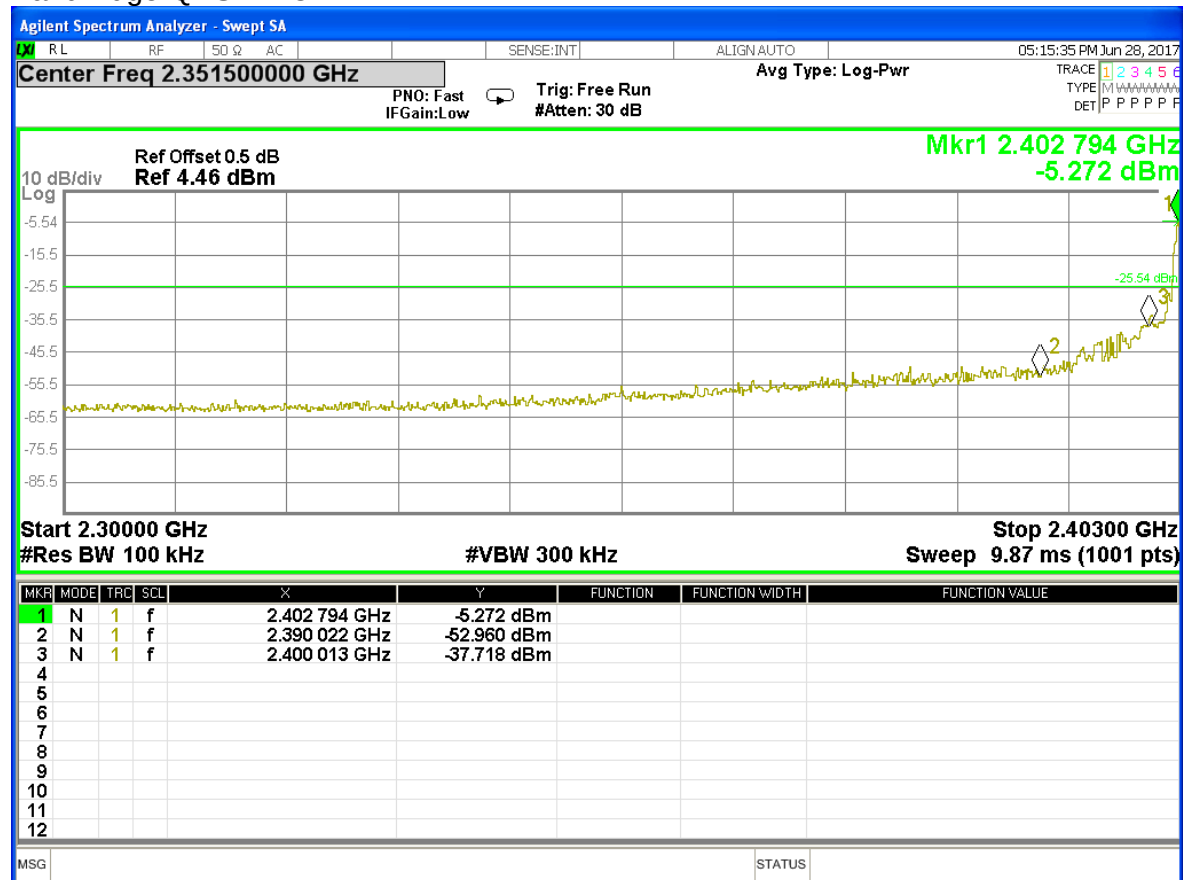
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# Band Edge-GFSK-H CH







**Prüfbericht - Nr.:**

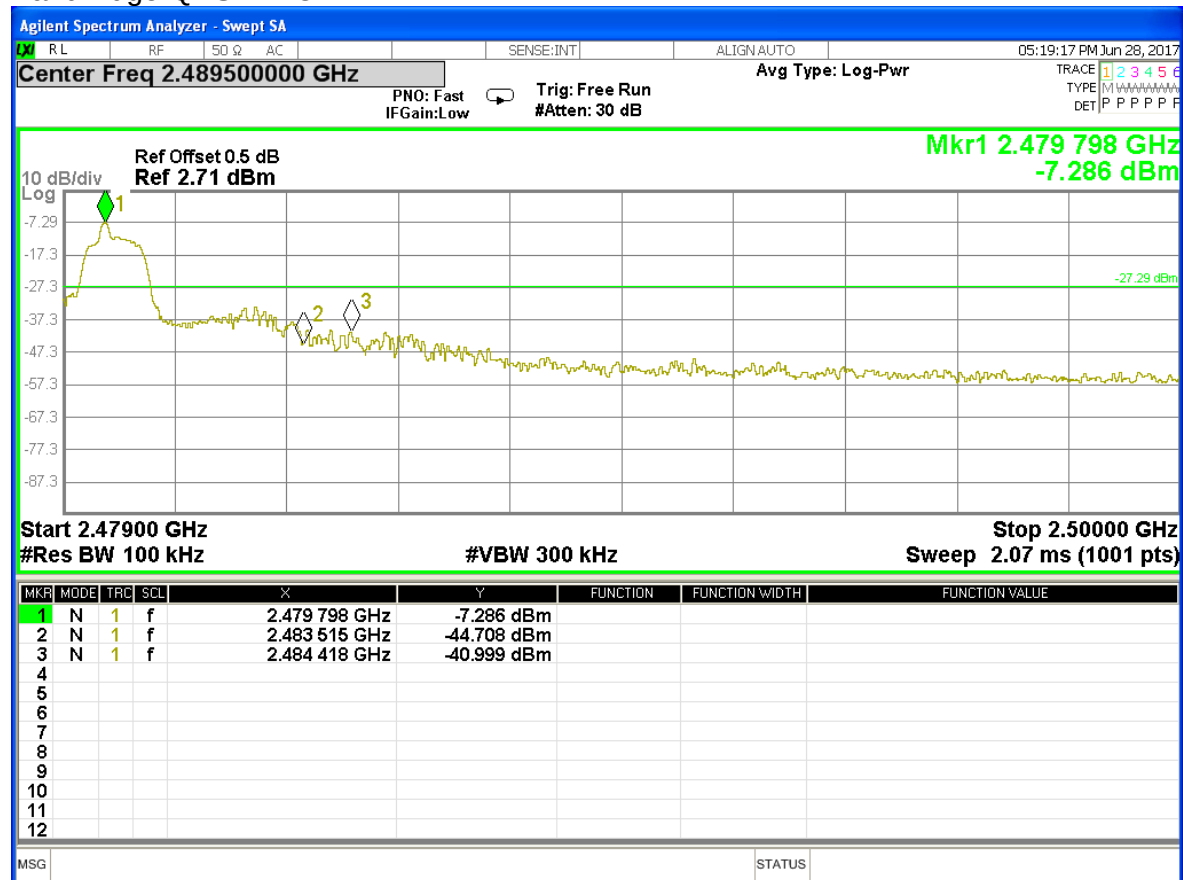
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Band Edge-QPSK-H CH



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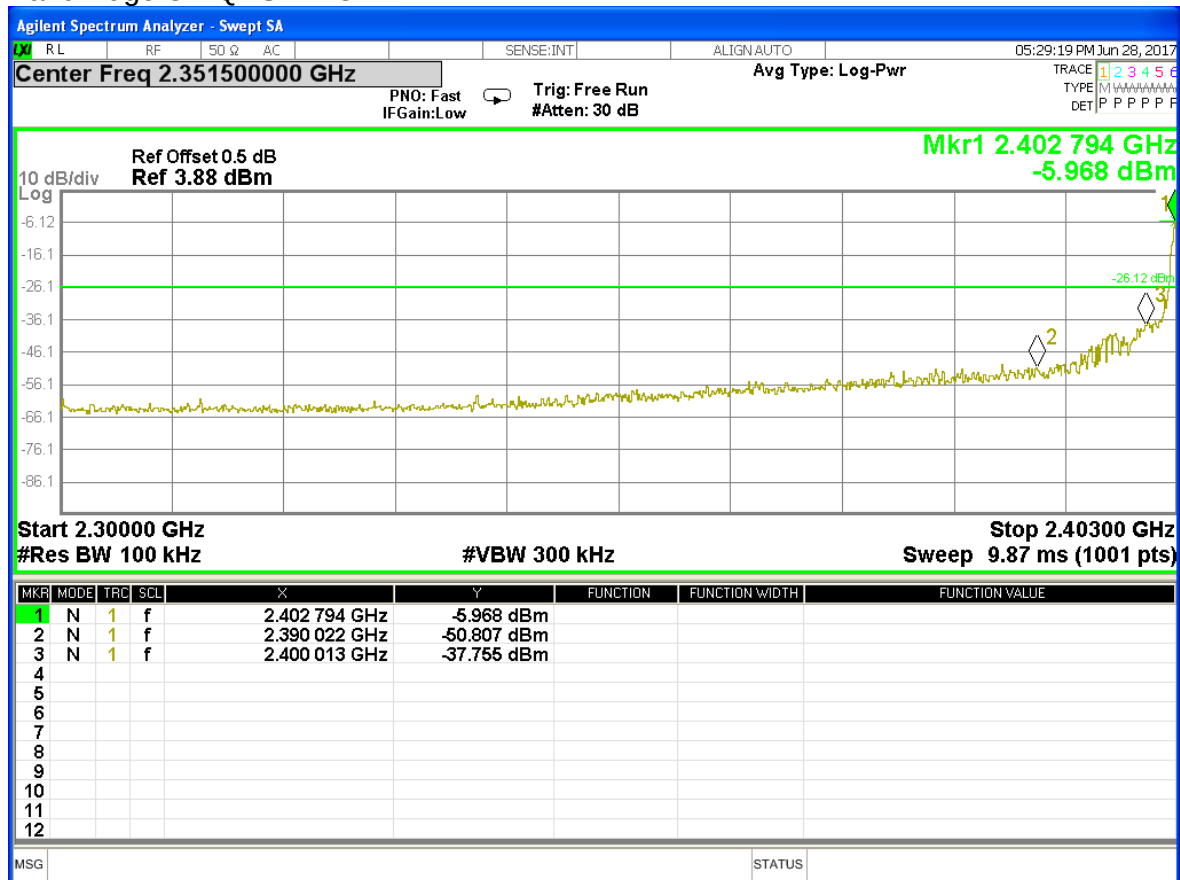
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## Band Edge-8-DQPSK-L CH



**Prüfbericht - Nr.:**

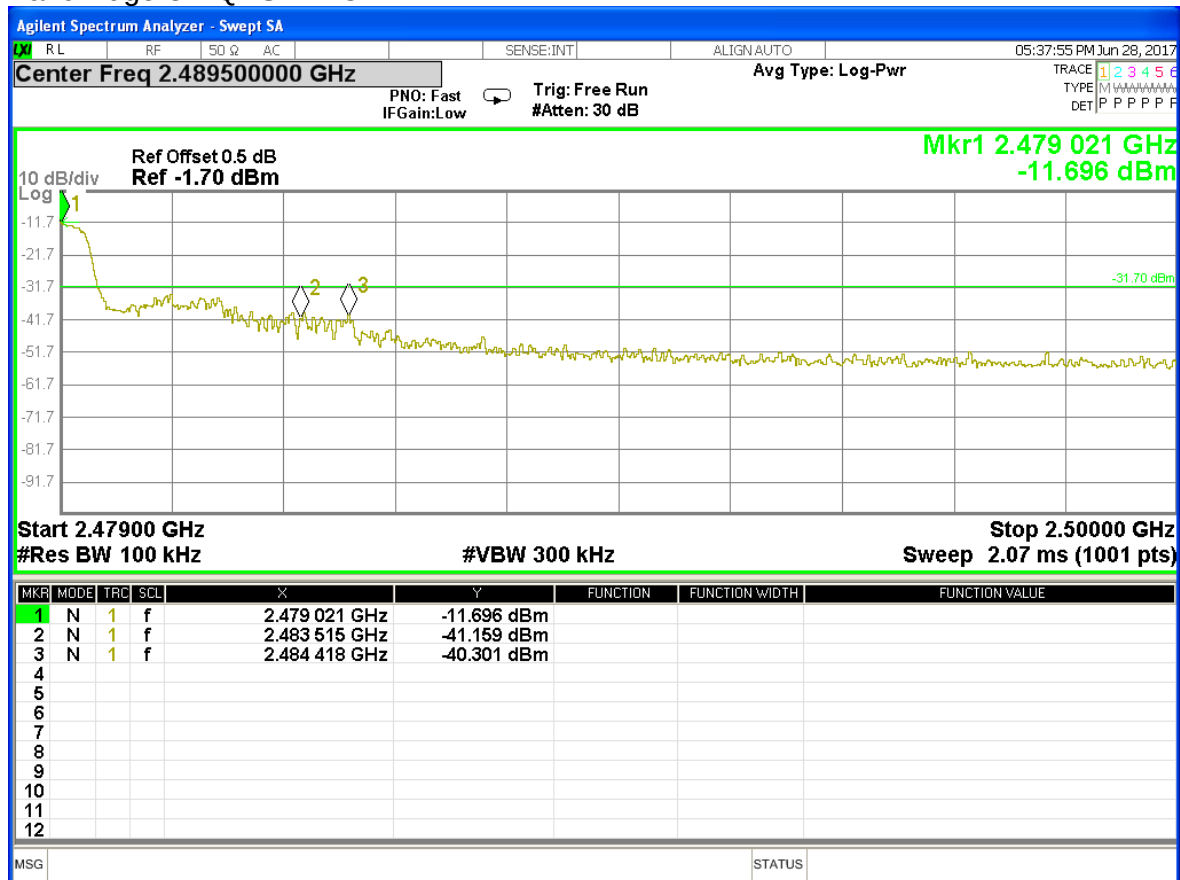
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## Band Edge-8-DQPSK-H CH



**Prüfbericht - Nr.:**

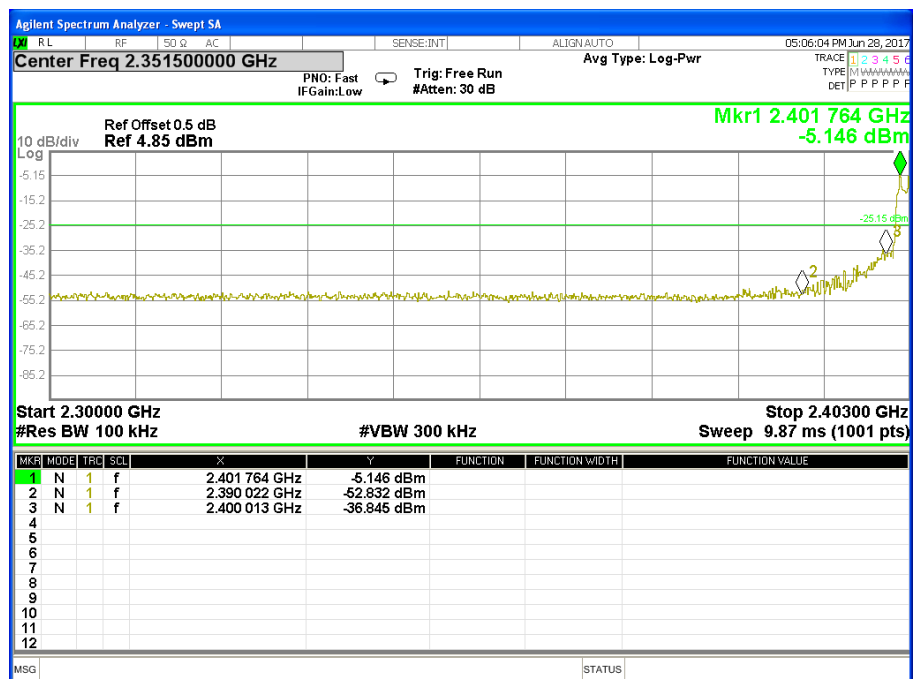
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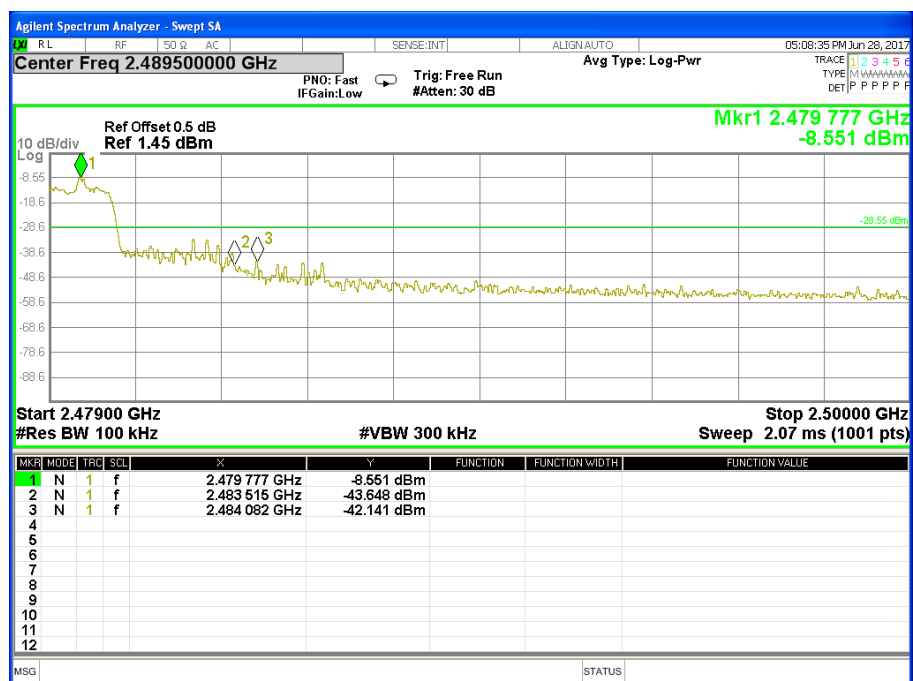
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## Hopping Band-edge: 8-DQPSK Left



## Hopping Band-edge: 8-DQPSK Right



Prüfbericht - Nr.:

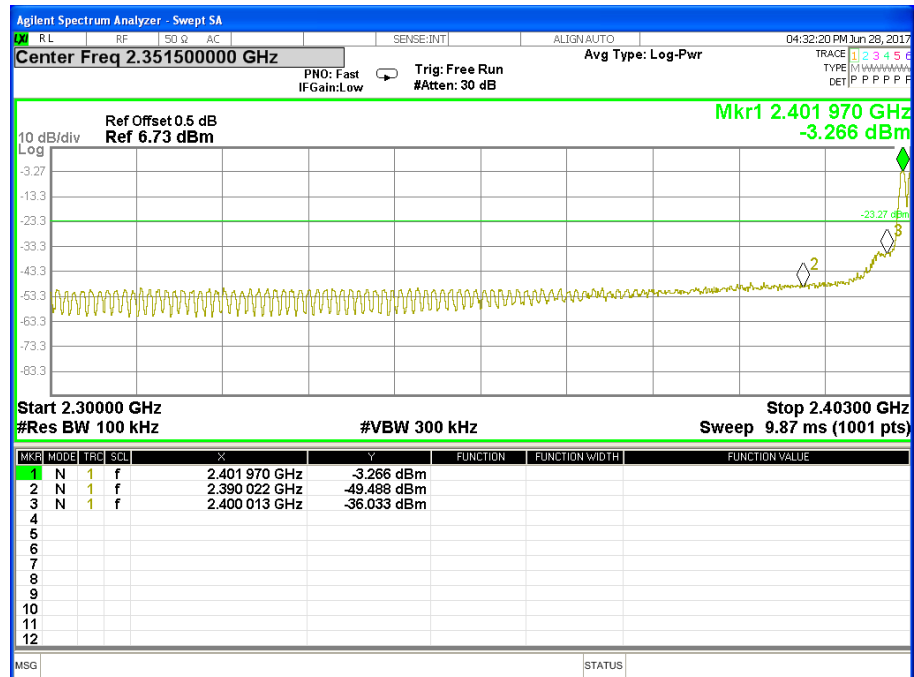
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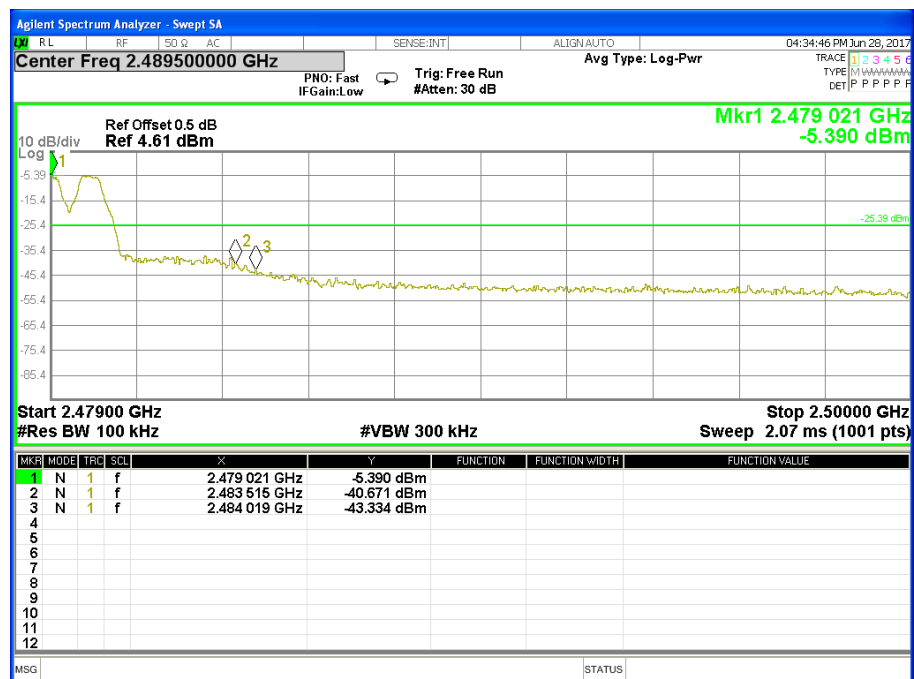
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### Hopping Band-edge: GFSK Left



### Hopping Band-edge: GFSK Right



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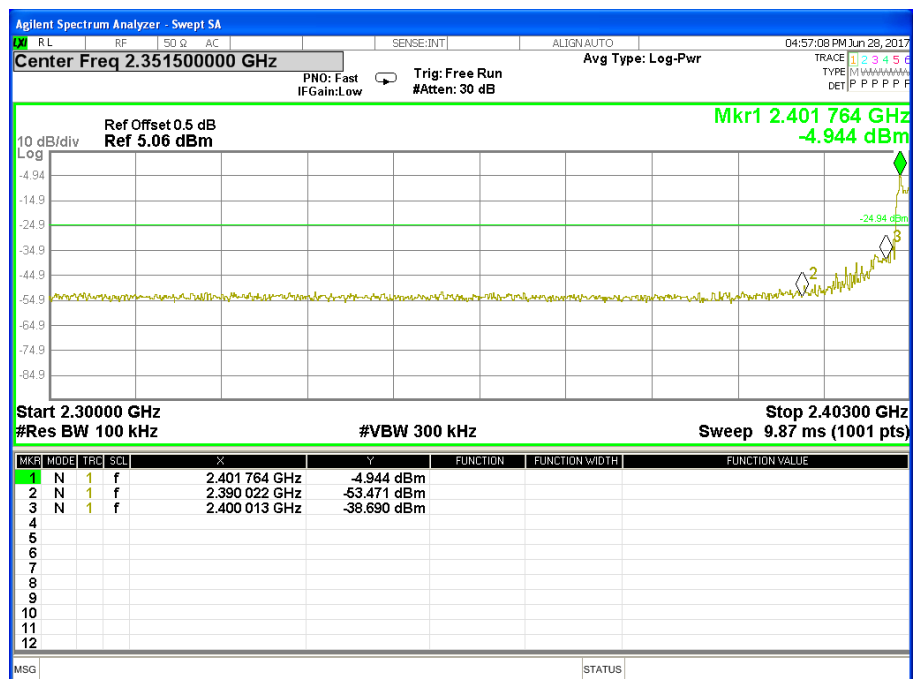
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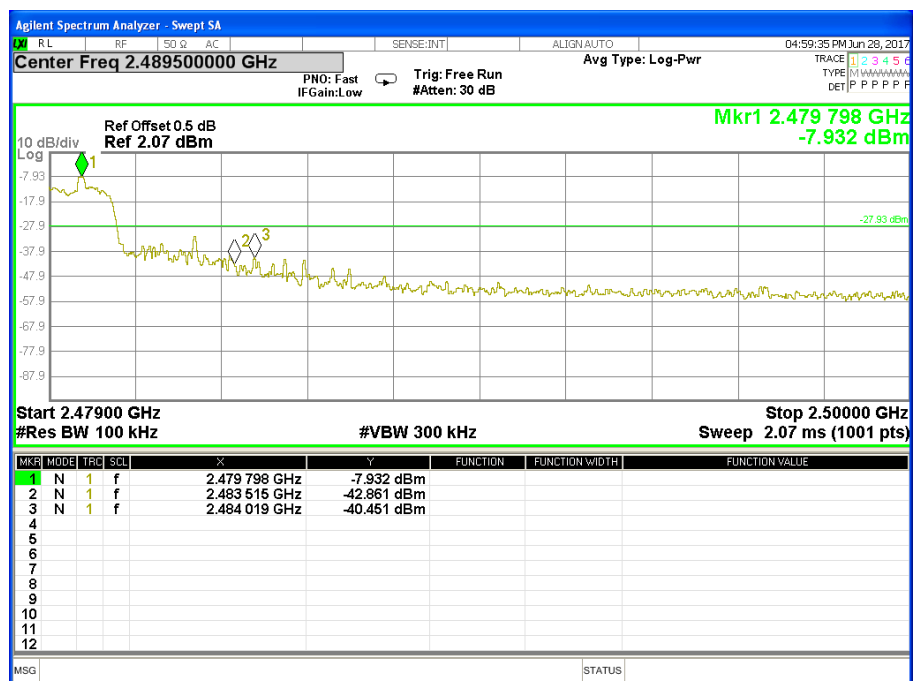
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Hopping Band-edge: QPSK Left



## Hopping Band-edge: QPSK Right



Prüfbericht - Nr.:

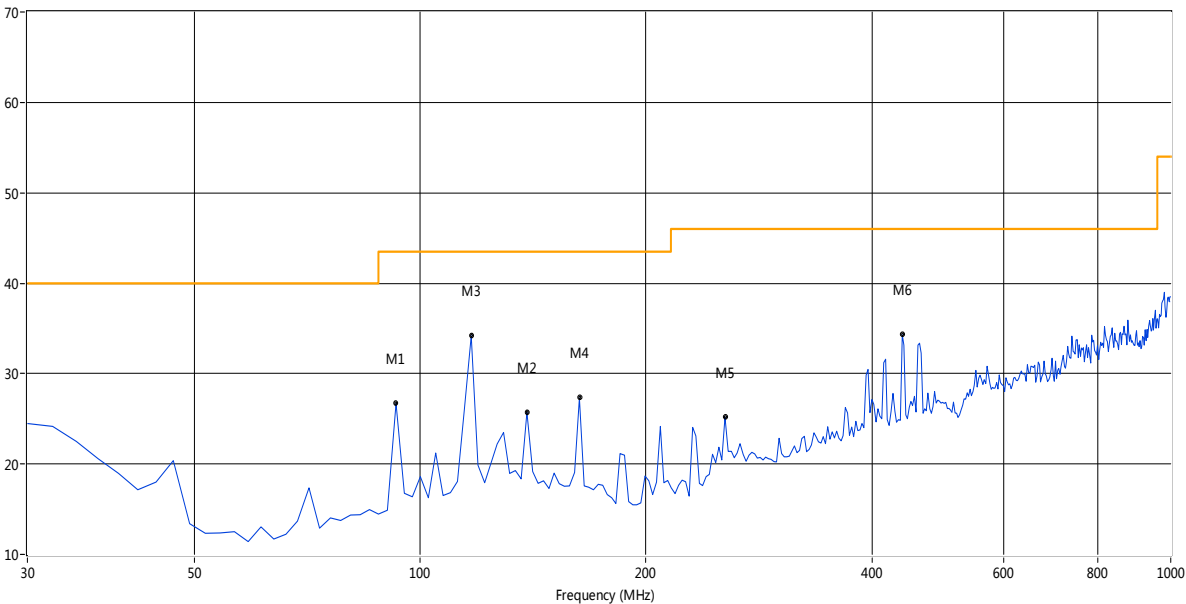
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



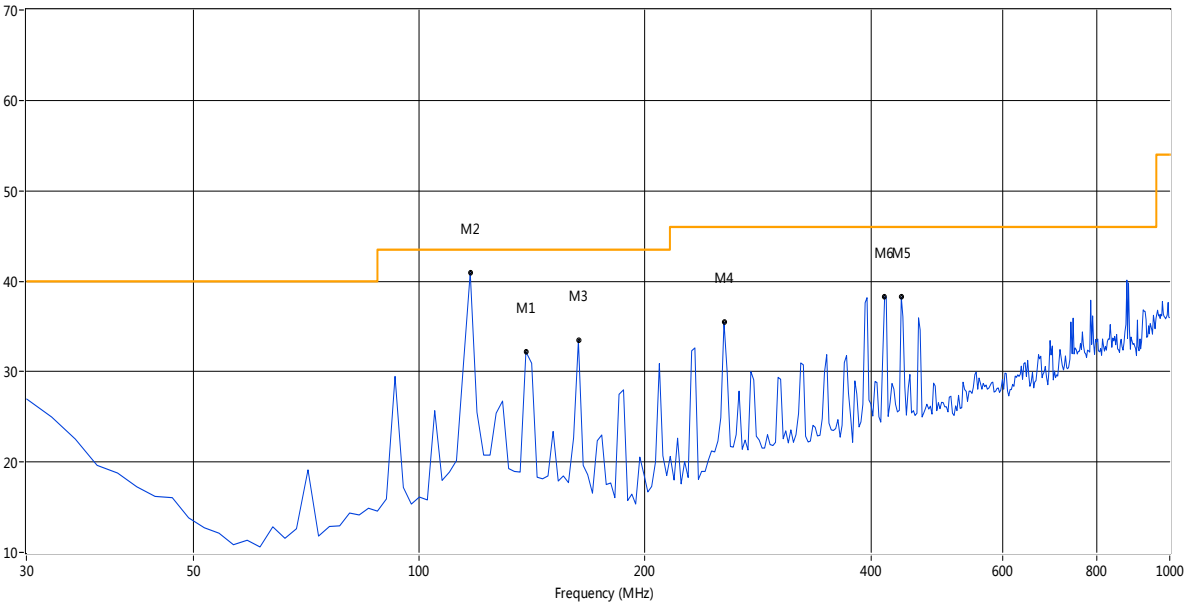
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.71            | -25.08      | 43.5           | 16.79       | Peak     | 355.00    | 100         | Vertical | Pass    |
| 2   | 138.853         | 25.72            | -22.41      | 43.5           | 17.78       | Peak     | 87.00     | 100         | Vertical | Pass    |
| 3   | 117.082         | 34.18            | -22.67      | 43.5           | 9.32        | Peak     | 6.00      | 100         | Vertical | Pass    |
| 4   | 163.042         | 27.32            | -23.39      | 43.5           | 16.18       | Peak     | 5.00      | 100         | Vertical | Pass    |
| 5   | 254.963         | 25.19            | -19.97      | 46.0           | 20.81       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 6   | 438.803         | 34.29            | -14.94      | 46.0           | 11.71       | Peak     | 3.00      | 100         | Vertical | Pass    |



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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 138.853         | 32.18            | -22.41      | 43.5           | 11.32       | Peak     | 213.00    | 100         | Vertical | Pass    |
| 2   | 117.082         | 40.94            | -22.67      | 43.5           | 2.56        | Peak     | 198.90    | 100         | Vertical | Pass    |
| 3   | 163.042         | 33.46            | -23.39      | 43.5           | 10.04       | Peak     | 198.90    | 100         | Vertical | Pass    |
| 4   | 254.963         | 35.46            | -19.97      | 46.0           | 10.54       | Peak     | 329.20    | 100         | Vertical | Pass    |
| 5   | 438.803         | 38.26            | -14.94      | 46.0           | 7.74        | Peak     | 355.00    | 100         | Vertical | Pass    |
| 6   | 417.032         | 38.30            | -15.00      | 46.0           | 7.70        | Peak     | 3.60      | 100         | Vertical | Pass    |

**Prüfbericht - Nr.:**

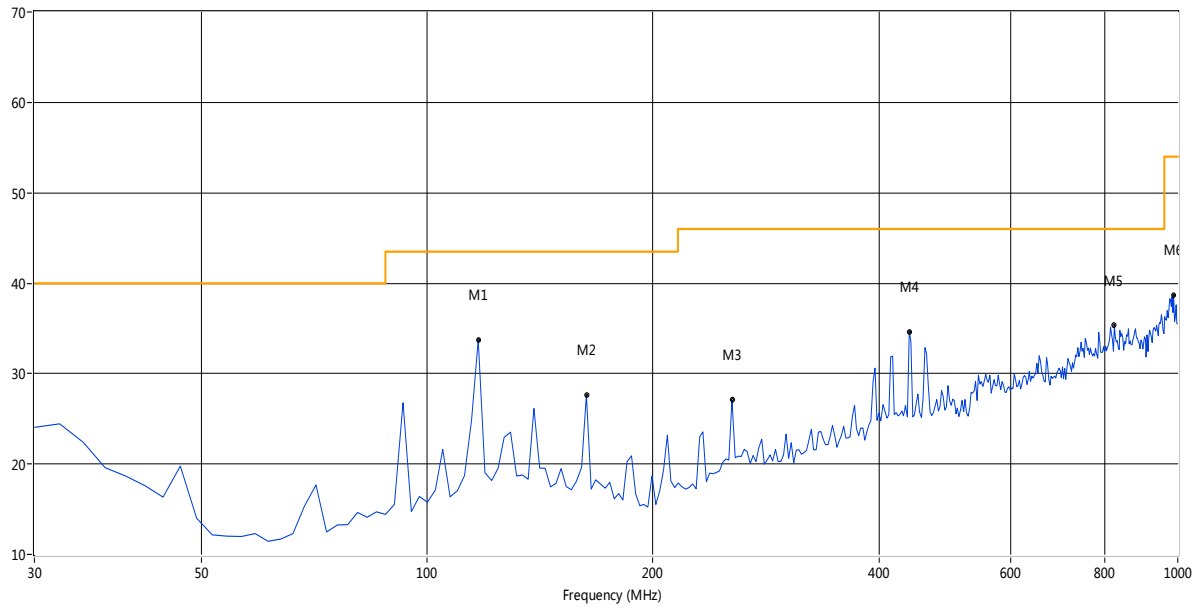
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 33.75            | -22.67      | 43.5           | 9.75        | Peak     | 1.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 27.69            | -23.39      | 43.5           | 15.81       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 27.10            | -19.97      | 46.0           | 18.90       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 4   | 438.803         | 34.66            | -14.94      | 46.0           | 11.34       | Peak     | 162.00    | 100         | Vertical | Pass    |
| 5   | 823.416         | 35.32            | -6.45       | 46.0           | 10.68       | Peak     | 85.00     | 100         | Vertical | Pass    |
| 6   | 987.905         | 38.70            | -2.37       | 54.0           | 15.30       | Peak     | 80.00     | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

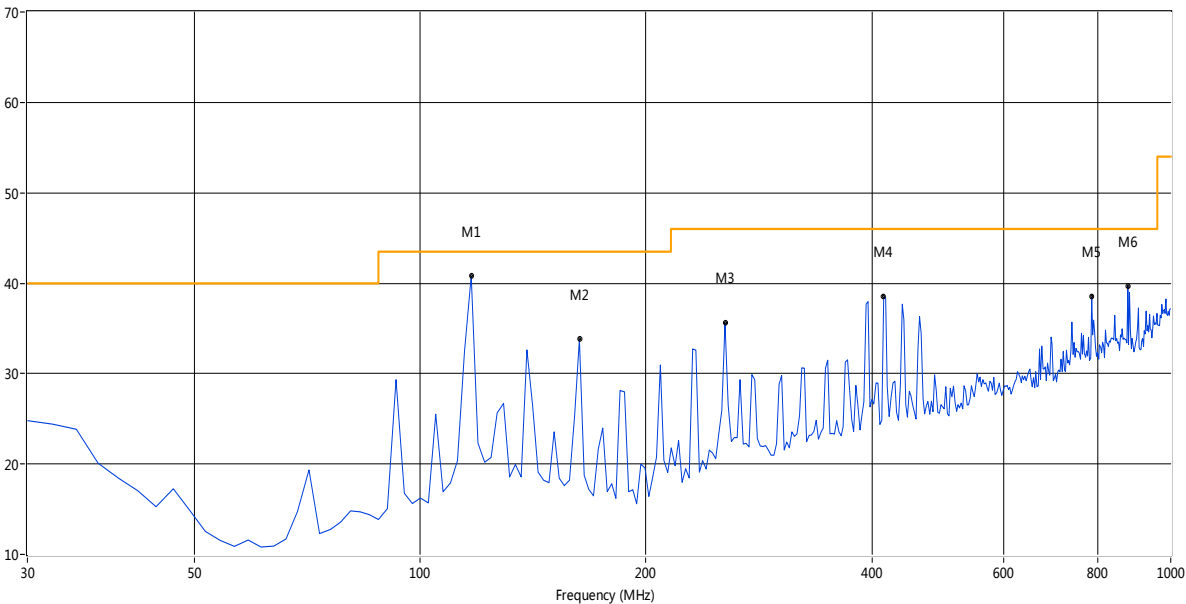
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702

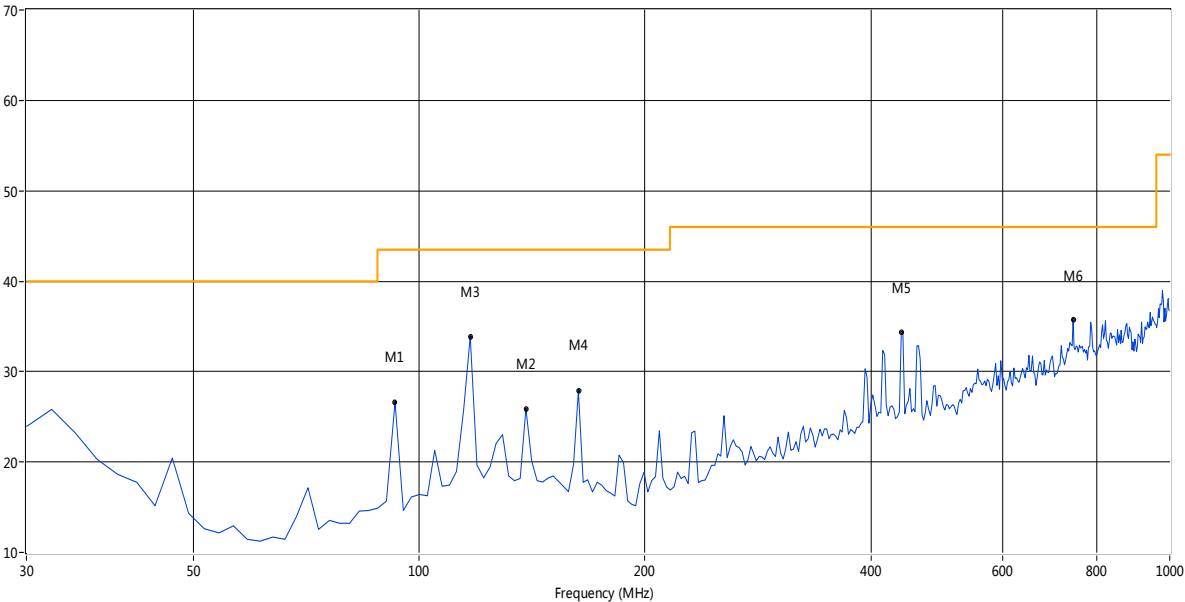


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 40.79            | -22.67      | 43.5           | 2.71        | Peak     | 4.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 33.80            | -23.39      | 43.5           | 9.70        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 35.65            | -19.97      | 46.0           | 10.35       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 4   | 414.613         | 38.51            | -15.10      | 46.0           | 7.49        | Peak     | 2.00      | 100         | Vertical | Pass    |
| 5   | 784.713         | 38.50            | -7.31       | 46.0           | 7.50        | Peak     | 283.00    | 100         | Vertical | Pass    |
| 6   | 876.633         | 39.66            | -5.36       | 46.0           | 6.34        | Peak     | 2.00      | 100         | Vertical | Pass    |

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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.65            | -25.08      | 43.5           | 16.85       | Peak     | 144.00    | 100         | Vertical | Pass    |
| 2   | 138.853         | 25.91            | -22.41      | 43.5           | 17.59       | Peak     | 257.00    | 100         | Vertical | Pass    |
| 3   | 117.082         | 33.91            | -22.67      | 43.5           | 9.59        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 4   | 163.042         | 27.94            | -23.39      | 43.5           | 15.56       | Peak     | 0.00      | 100         | Vertical | Pass    |
| 5   | 438.803         | 34.31            | -14.94      | 46.0           | 11.69       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 6   | 743.591         | 35.72            | -7.25       | 46.0           | 10.28       | Peak     | 0.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

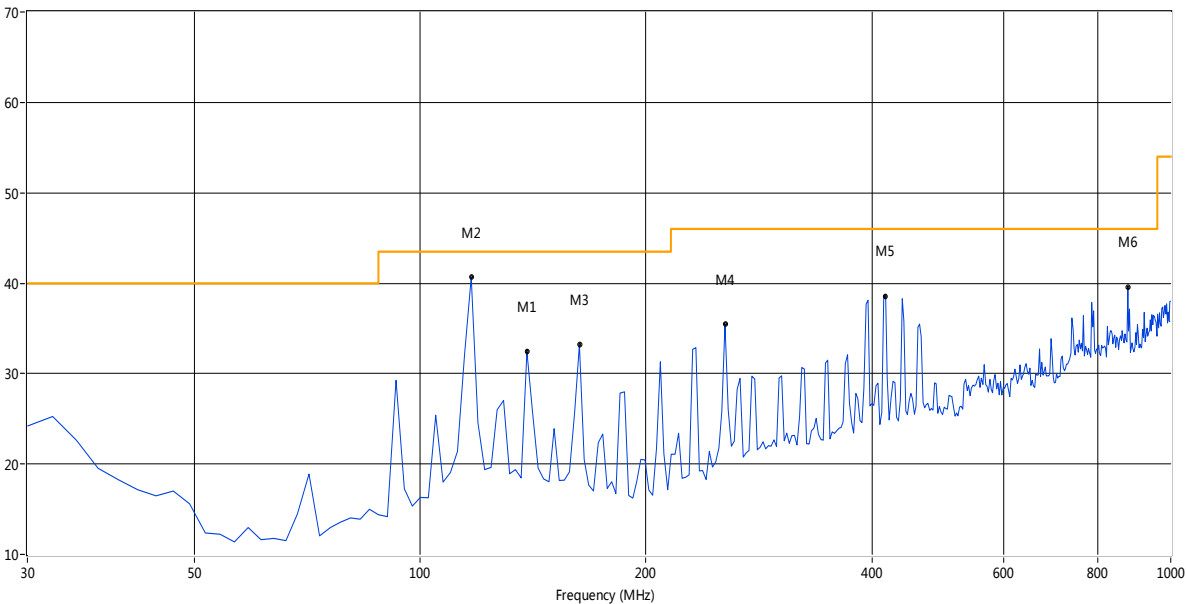
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702

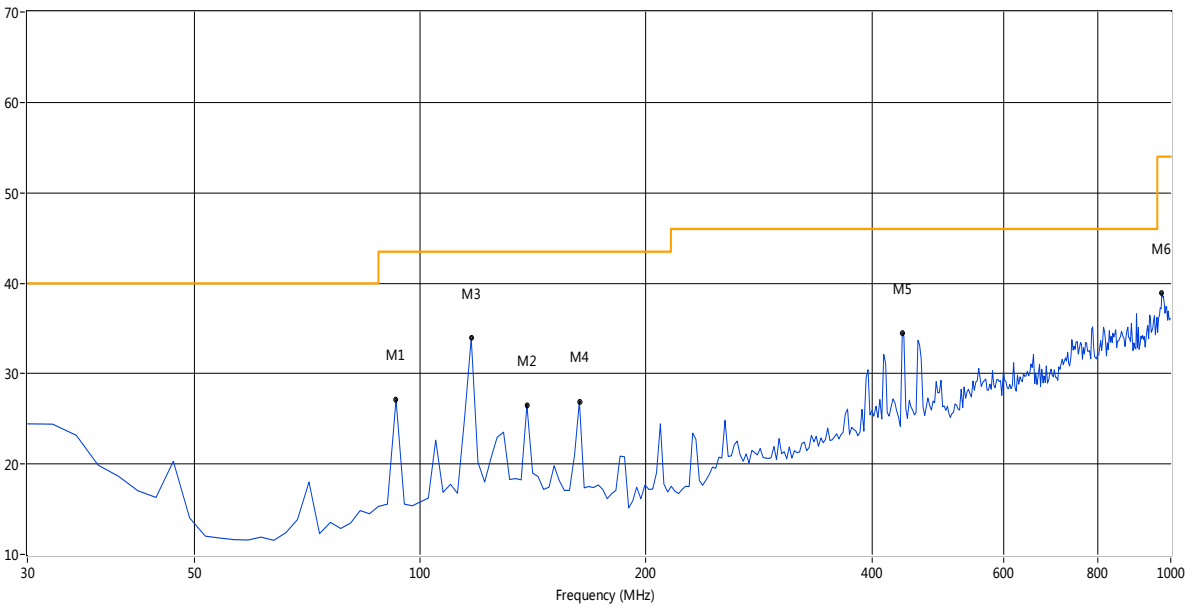


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 138.853         | 32.47            | -22.41      | 43.5           | 11.03       | Peak     | 99.00     | 100         | Vertical | Pass    |
| 2   | 117.082         | 40.67            | -22.67      | 43.5           | 2.83        | Peak     | 2.00      | 100         | Vertical | Pass    |
| 3   | 163.042         | 33.17            | -23.39      | 43.5           | 10.33       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 4   | 254.963         | 35.50            | -19.97      | 46.0           | 10.50       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 5   | 417.032         | 38.58            | -15.00      | 46.0           | 7.42        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 6   | 876.633         | 39.59            | -5.36       | 46.0           | 6.41        | Peak     | 2.00      | 100         | Vertical | Pass    |

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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 27.13            | -25.08      | 43.5           | 16.37       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 2   | 138.853         | 26.51            | -22.41      | 43.5           | 16.99       | Peak     | 155.00    | 100         | Vertical | Pass    |
| 3   | 117.082         | 33.92            | -22.67      | 43.5           | 9.58        | Peak     | 6.00      | 100         | Vertical | Pass    |
| 4   | 163.042         | 26.92            | -23.39      | 43.5           | 16.58       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 5   | 438.803         | 34.46            | -14.94      | 46.0           | 11.54       | Peak     | 0.00      | 100         | Vertical | Pass    |
| 6   | 973.392         | 38.87            | -2.68       | 54.0           | 15.13       | Peak     | 2.00      | 100         | Vertical | Pass    |

**Prüfbericht - Nr.:**

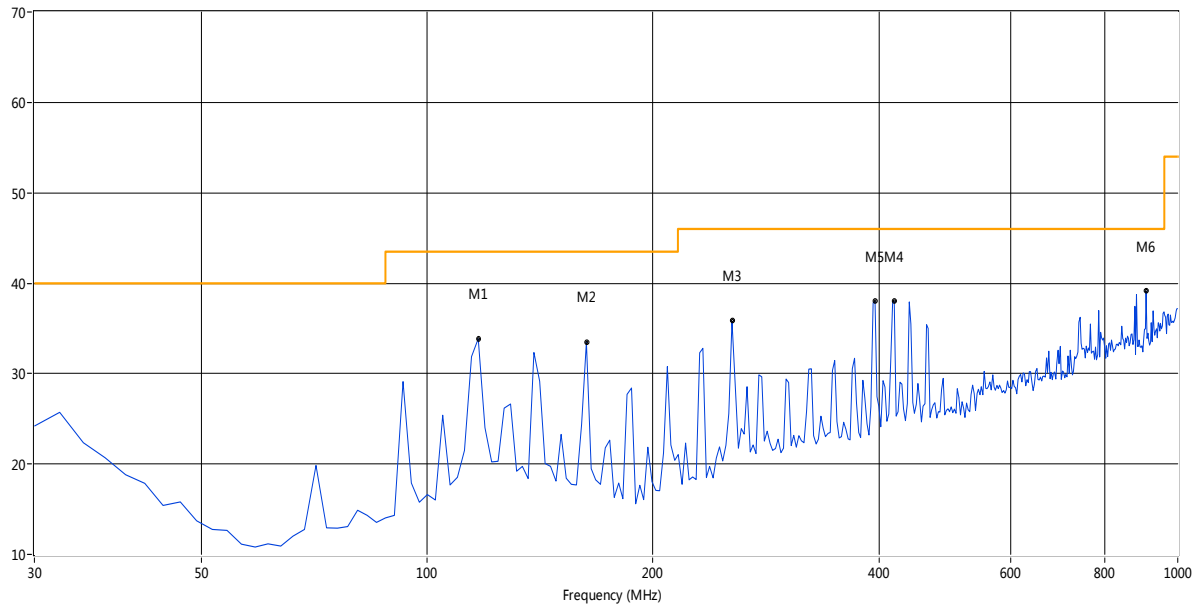
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 40.87            | -22.67      | 43.5           | 2.63        | Peak     | 300.00    | 100         | Vertical | Pass    |
| 2   | 163.042         | 33.51            | -23.39      | 43.5           | 9.99        | Peak     | 4.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 35.82            | -19.97      | 46.0           | 10.18       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 4   | 419.451         | 38.00            | -14.89      | 46.0           | 8.00        | Peak     | 10.00     | 100         | Vertical | Pass    |
| 5   | 395.262         | 38.02            | -16.04      | 46.0           | 7.98        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 6   | 908.080         | 85.12            | -5.66       | 46.0           | -39.12      | Peak     | 1.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

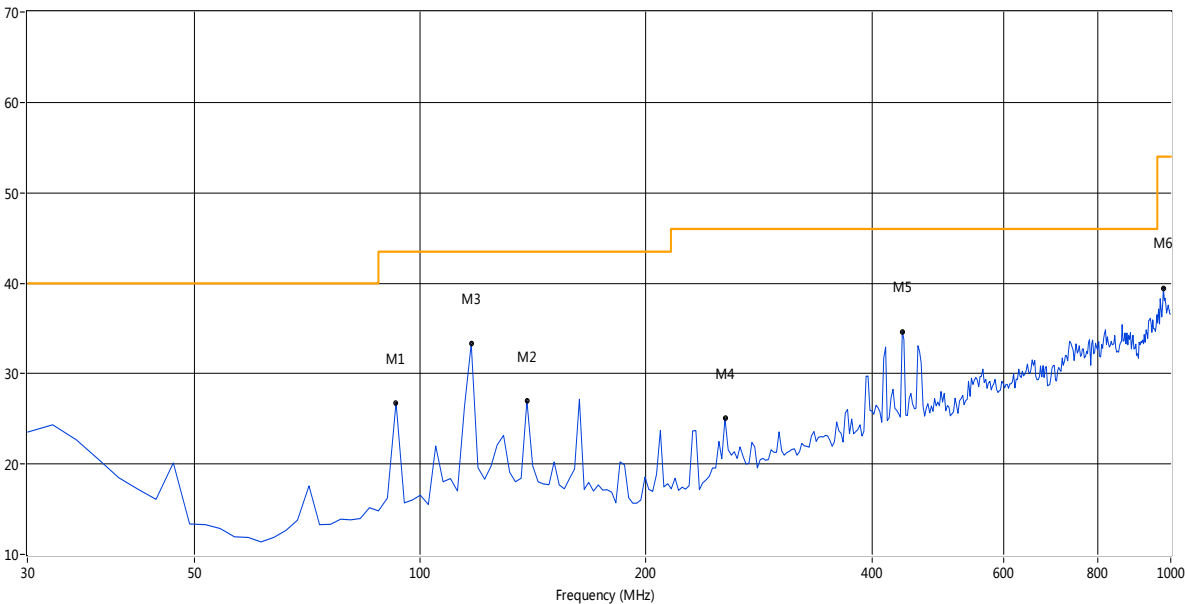
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.80            | -25.08      | 43.5           | 16.70       | Peak     | 17.00     | 100         | Vertical | Pass    |
| 2   | 138.853         | 26.98            | -22.41      | 43.5           | 16.52       | Peak     | 177.00    | 100         | Vertical | Pass    |
| 3   | 117.082         | 33.32            | -22.67      | 43.5           | 10.18       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 4   | 254.963         | 25.07            | -19.97      | 46.0           | 20.93       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 5   | 438.803         | 34.66            | -14.94      | 46.0           | 11.34       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 6   | 978.229         | 39.45            | -2.18       | 54.0           | 14.55       | Peak     | 2.00      | 100         | Vertical | Pass    |



Prüfbericht - Nr.:

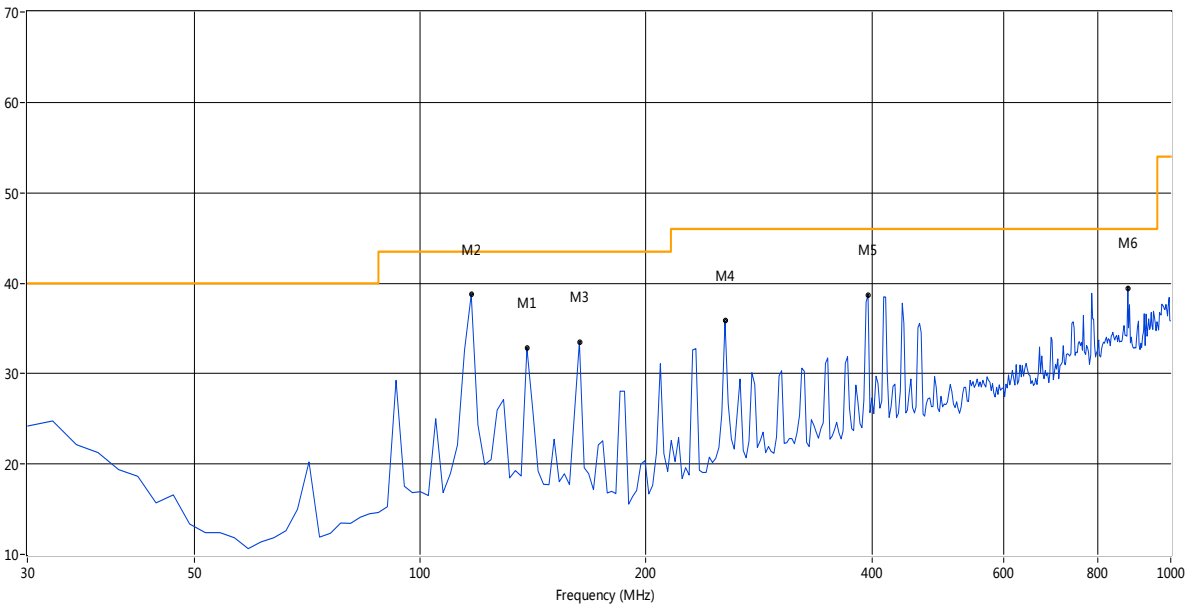
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 138.853         | 32.85            | -22.41      | 43.5           | 10.65       | Peak     | 19.00     | 100         | Vertical | Pass    |
| 2   | 117.082         | 40.75            | -22.67      | 43.5           | 2.75        | Peak     | 2.00      | 100         | Vertical | Pass    |
| 3   | 163.042         | 33.50            | -23.39      | 43.5           | 10.00       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 4   | 254.963         | 35.85            | -19.97      | 46.0           | 10.15       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 5   | 395.262         | 38.69            | -16.04      | 46.0           | 7.31        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 6   | 876.633         | 39.47            | -5.36       | 46.0           | 6.53        | Peak     | 0.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

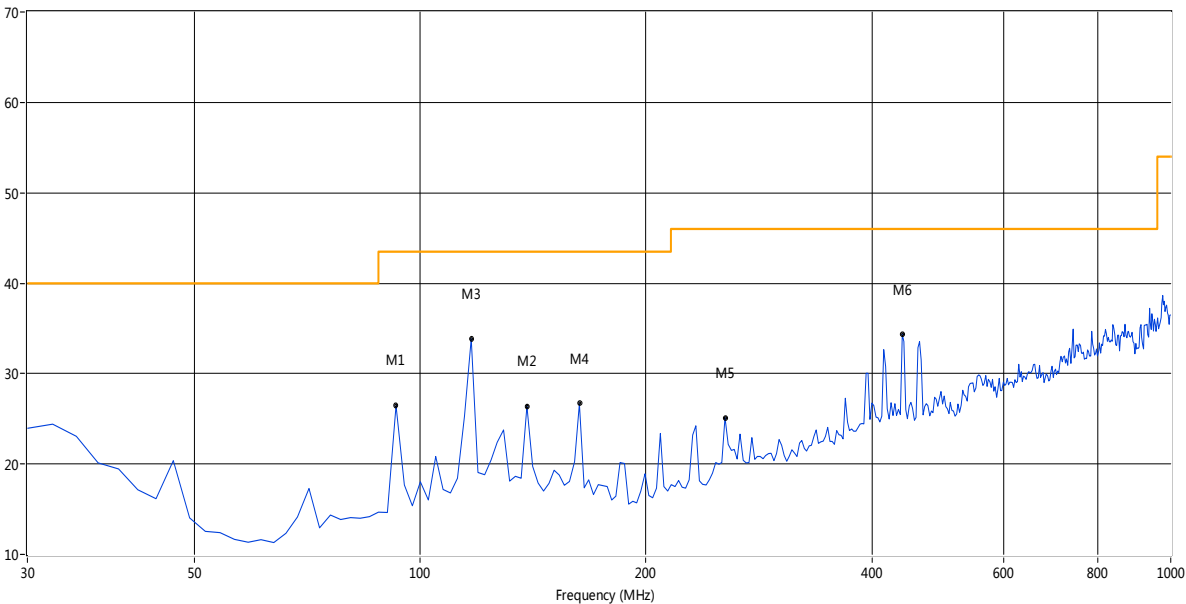
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.45            | -25.08      | 43.5           | 17.05       | Peak     | 141.00    | 100         | Vertical | Pass    |
| 2   | 138.853         | 26.40            | -22.41      | 43.5           | 17.10       | Peak     | 196.00    | 100         | Vertical | Pass    |
| 3   | 117.082         | 33.87            | -22.67      | 43.5           | 9.63        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 4   | 163.042         | 26.68            | -23.39      | 43.5           | 16.82       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 5   | 254.963         | 25.15            | -19.97      | 46.0           | 20.85       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 6   | 438.803         | 34.33            | -14.94      | 46.0           | 11.67       | Peak     | 2.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

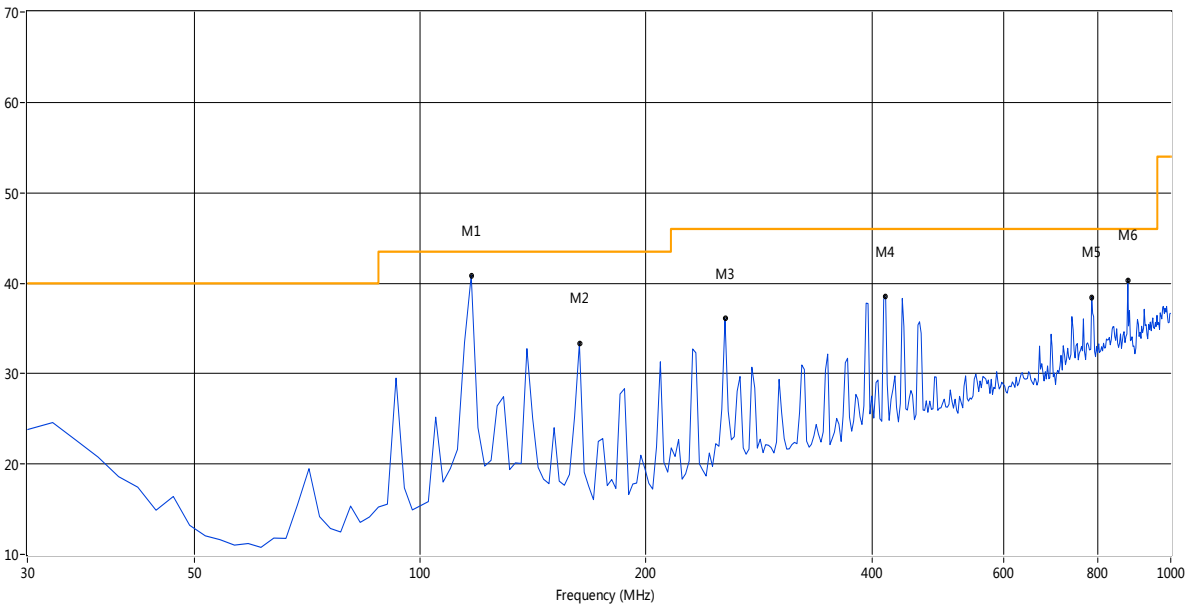
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 40.88            | -22.67      | 43.5           | 2.62        | Peak     | 0.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 33.37            | -23.39      | 43.5           | 10.13       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 36.10            | -19.97      | 46.0           | 9.90        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 4   | 417.032         | 38.51            | -15.00      | 46.0           | 7.49        | Peak     | 4.00      | 100         | Vertical | Pass    |
| 5   | 784.713         | 38.46            | -7.31       | 46.0           | 7.54        | Peak     | 186.00    | 100         | Vertical | Pass    |
| 6   | 876.633         | 40.34            | -5.36       | 46.0           | 5.66        | Peak     | 3.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

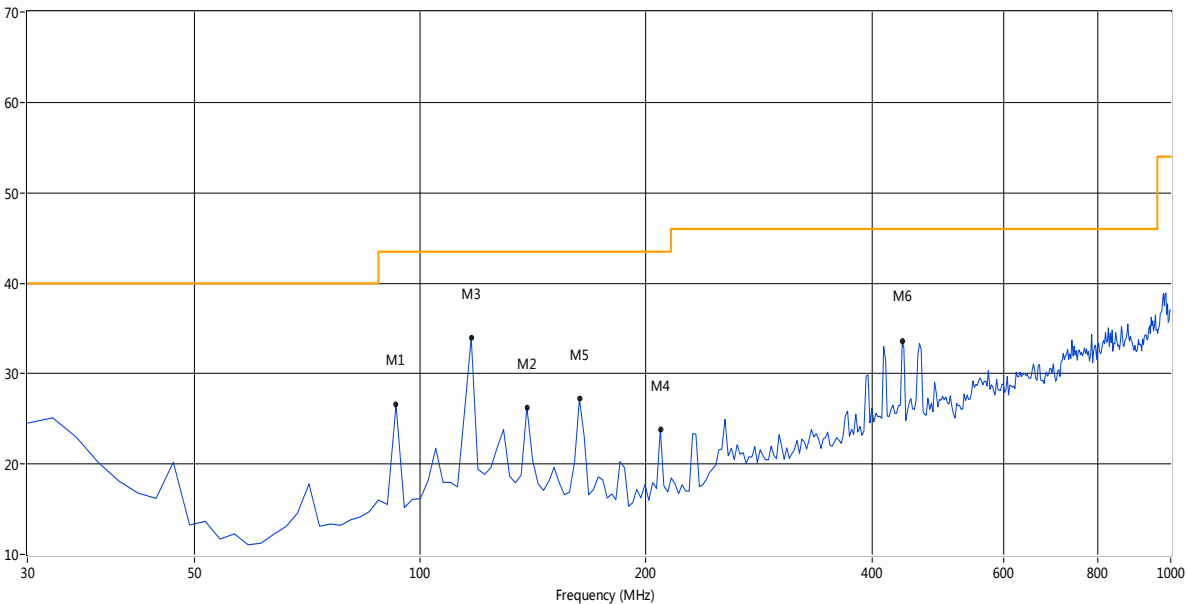
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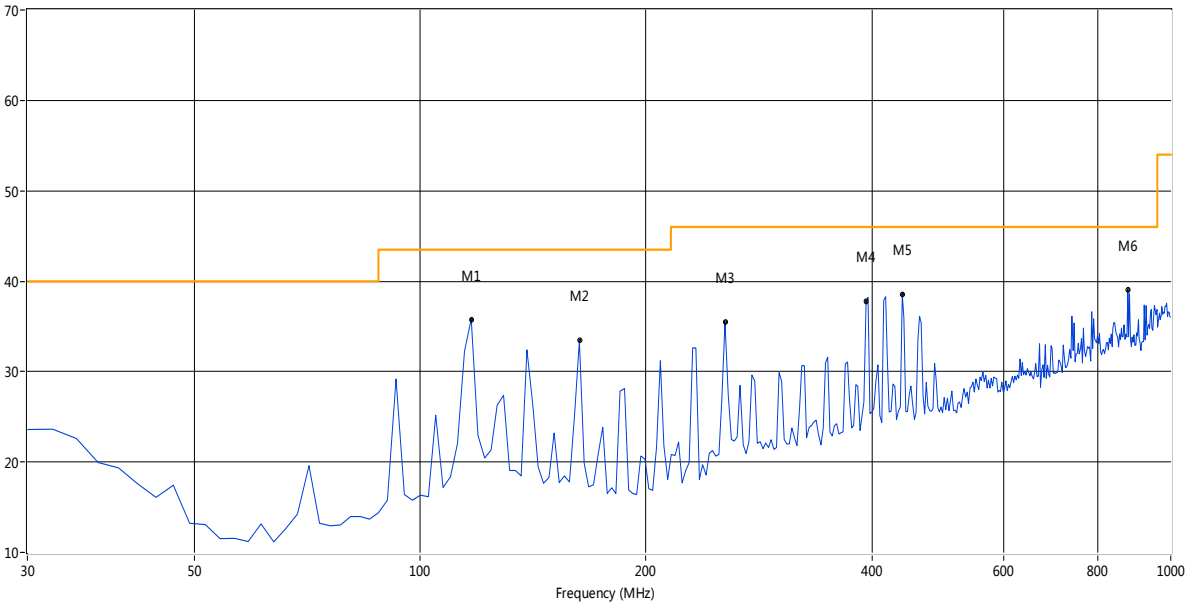
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.59            | -25.08      | 43.5           | 16.91       | Peak     | 5.00      | 100         | Vertical | Pass    |
| 2   | 138.853         | 26.25            | -22.41      | 43.5           | 17.25       | Peak     | 299.00    | 100         | Vertical | Pass    |
| 3   | 117.082         | 33.98            | -22.67      | 43.5           | 9.52        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 4   | 209.002         | 23.83            | -24.84      | 43.5           | 19.67       | Peak     | 307.00    | 100         | Vertical | Pass    |
| 5   | 163.042         | 27.21            | -23.39      | 43.5           | 16.29       | Peak     | 6.00      | 100         | Vertical | Pass    |
| 6   | 438.803         | 33.65            | -14.94      | 46.0           | 12.35       | Peak     | 2.00      | 100         | Vertical | Pass    |

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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 40.79            | -22.67      | 43.5           | 2.71        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 33.42            | -23.39      | 43.5           | 10.08       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 35.45            | -19.97      | 46.0           | 10.55       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 4   | 392.843         | 37.73            | -16.20      | 46.0           | 8.27        | Peak     | 228.00    | 100         | Vertical | Pass    |
| 5   | 438.803         | 38.54            | -14.94      | 46.0           | 7.46        | Peak     | 5.00      | 100         | Vertical | Pass    |
| 6   | 876.633         | 39.03            | -5.36       | 46.0           | 6.97        | Peak     | 0.00      | 100         | Vertical | Pass    |

**Prüfbericht - Nr.:**

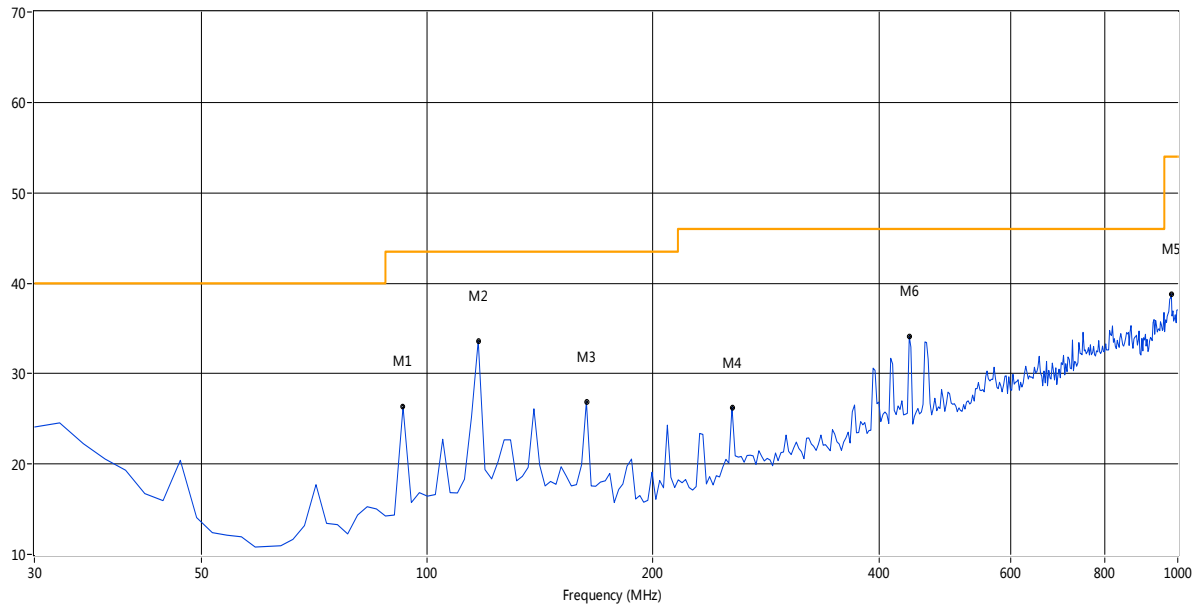
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 92.893          | 26.34            | -25.08      | 43.5           | 17.16       | Peak     | 348.00    | 100         | Vertical | Pass    |
| 2   | 117.082         | 33.65            | -22.67      | 43.5           | 9.85        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 3   | 163.042         | 26.92            | -23.39      | 43.5           | 16.58       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 4   | 254.963         | 26.28            | -19.97      | 46.0           | 19.72       | Peak     | 1.00      | 100         | Vertical | Pass    |
| 5   | 980.648         | 38.82            | -2.02       | 54.0           | 15.18       | Peak     | 83.00     | 100         | Vertical | Pass    |
| 6   | 438.803         | 34.11            | -14.94      | 46.0           | 11.89       | Peak     | 5.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

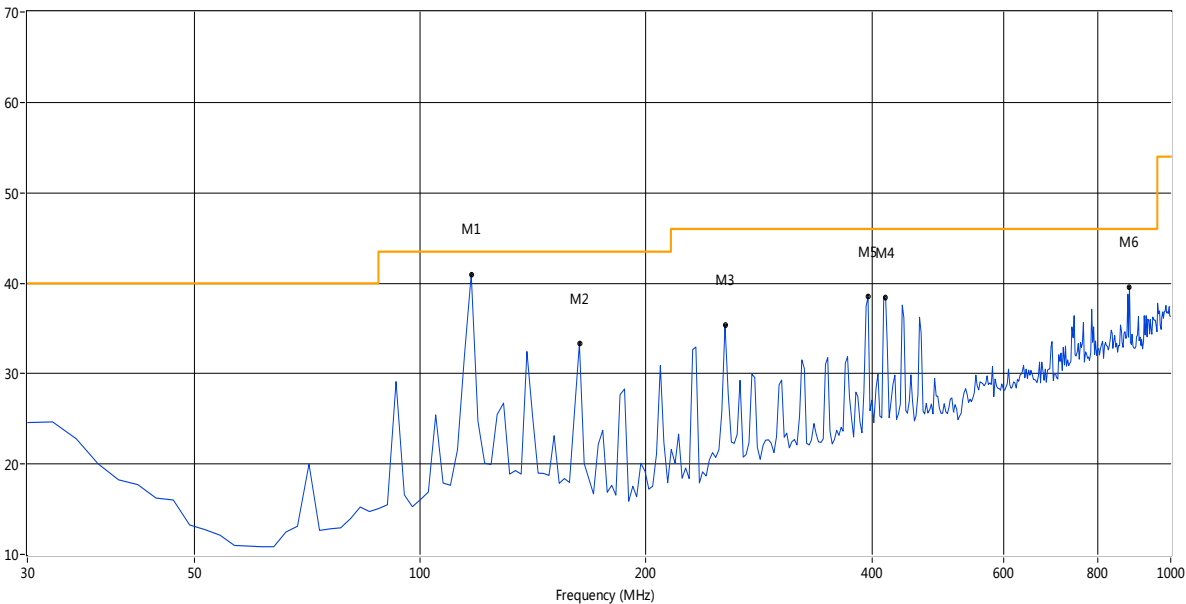
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RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 40.99            | -22.67      | 43.5           | 2.51        | Peak     | 1.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 33.33            | -23.39      | 43.5           | 10.17       | Peak     | 5.00      | 100         | Vertical | Pass    |
| 3   | 254.963         | 35.43            | -19.97      | 46.0           | 10.57       | Peak     | 4.00      | 100         | Vertical | Pass    |
| 4   | 417.032         | 38.36            | -15.00      | 46.0           | 7.64        | Peak     | 179.00    | 100         | Vertical | Pass    |
| 5   | 395.262         | 38.51            | -16.04      | 46.0           | 7.49        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 6   | 881.471         | 39.60            | -5.59       | 46.0           | 6.40        | Peak     | 4.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

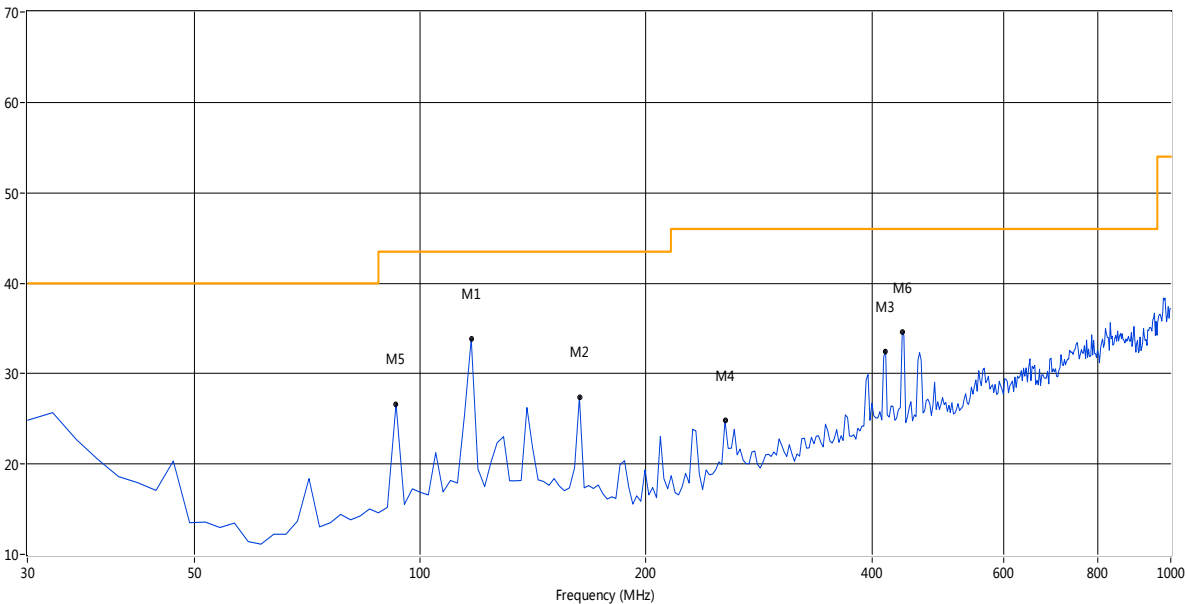
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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 117.082         | 33.87            | -22.67      | 43.5           | 9.63        | Peak     | 0.00      | 100         | Vertical | Pass    |
| 2   | 163.042         | 27.40            | -23.39      | 43.5           | 16.10       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 3   | 417.032         | 32.45            | -15.00      | 46.0           | 13.55       | Peak     | 314.00    | 100         | Vertical | Pass    |
| 4   | 254.963         | 24.79            | -19.97      | 46.0           | 21.21       | Peak     | 5.00      | 100         | Vertical | Pass    |
| 5   | 92.893          | 26.67            | -25.08      | 43.5           | 16.83       | Peak     | 3.00      | 100         | Vertical | Pass    |
| 6   | 438.803         | 34.61            | -14.94      | 46.0           | 11.39       | Peak     | 4.00      | 100         | Vertical | Pass    |



Prüfbericht - Nr.:

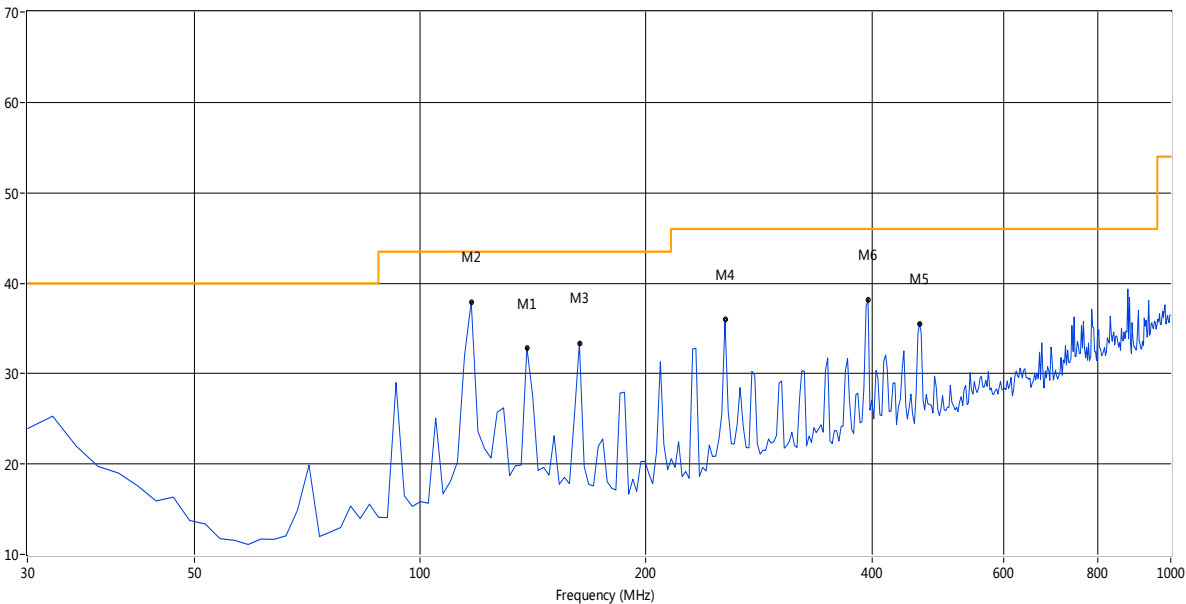
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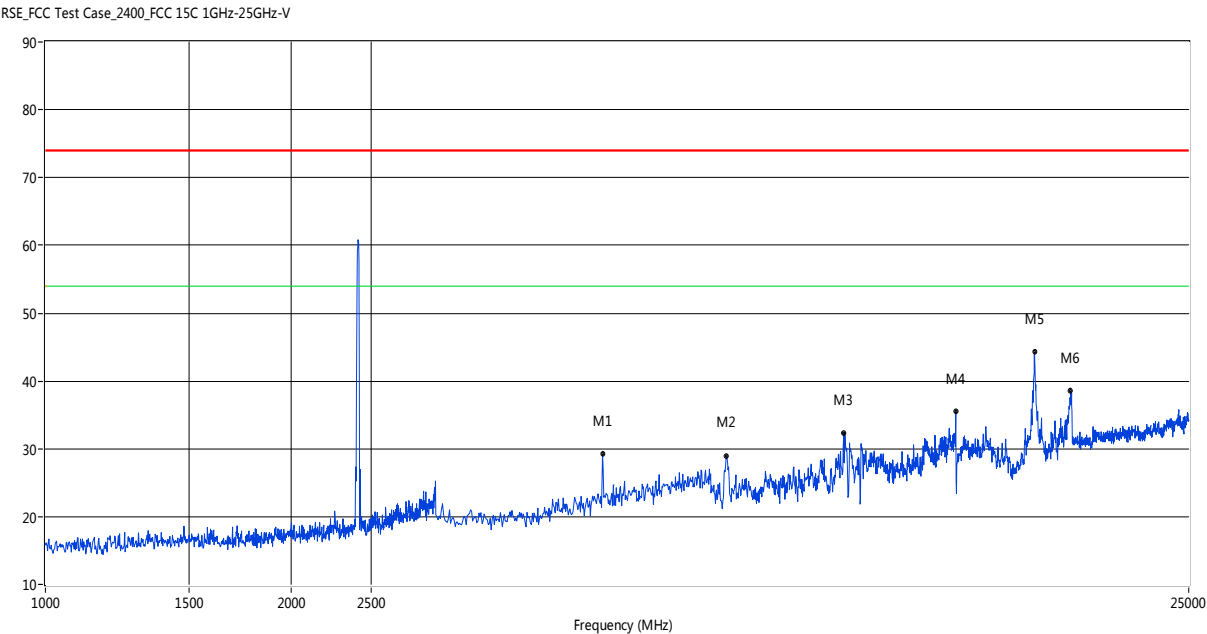
RE\_FCC Test Case\_FCC 15B 30MHz-1GHz-0702



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 138.853         | 32.88            | -22.41      | 43.5           | 10.62       | Peak     | 147.00    | 100         | Vertical | Pass    |
| 2   | 117.082         | 40.92            | -22.67      | 43.5           | 2.58        | Peak     | 3.00      | 100         | Vertical | Pass    |
| 3   | 163.042         | 33.40            | -23.39      | 43.5           | 10.10       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 4   | 254.963         | 35.95            | -19.97      | 46.0           | 10.05       | Peak     | 2.00      | 100         | Vertical | Pass    |
| 5   | 462.993         | 35.55            | -14.27      | 46.0           | 10.45       | Peak     | 16.00     | 100         | Vertical | Pass    |
| 6   | 395.262         | 38.20            | -16.04      | 46.0           | 7.80        | Peak     | 0.00      | 100         | Vertical | Pass    |

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Test Report No.

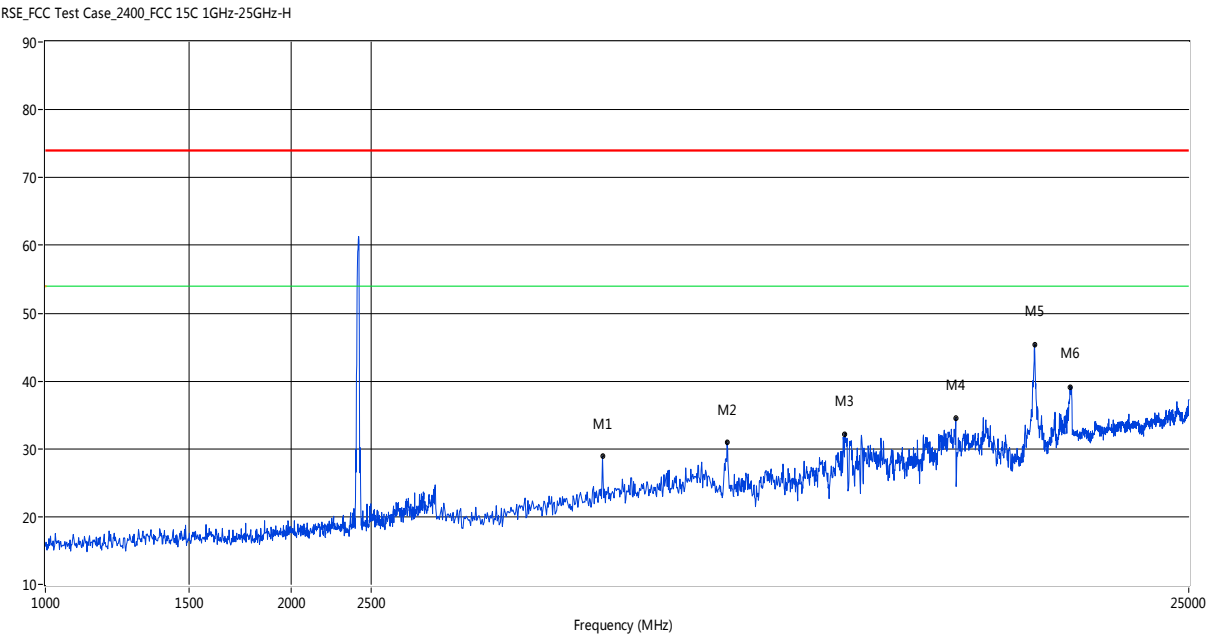
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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 29.21            | -23.06      | 74.0           | 44.79       | Peak     | 2.30      | 100         | Vertical | Pass    |
| 2   | 6806.194        | 28.97            | -18.99      | 74.0           | 45.03       | Peak     | 360.00    | 100         | Vertical | Pass    |
| 3   | 9463.536        | 32.36            | -13.85      | 74.0           | 41.64       | Peak     | 5.90      | 100         | Vertical | Pass    |
| 4   | 12980.020       | 35.52            | -12.43      | 74.0           | 38.48       | Peak     | 149.60    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.28            | -7.66       | 74.0           | 29.72       | Peak     | 97.70     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 38.57            | -12.66      | 74.0           | 35.43       | Peak     | 221.30    | 100         | Vertical | Pass    |

Prüfbericht - Nr.: 16083659 001  
Test Report No.

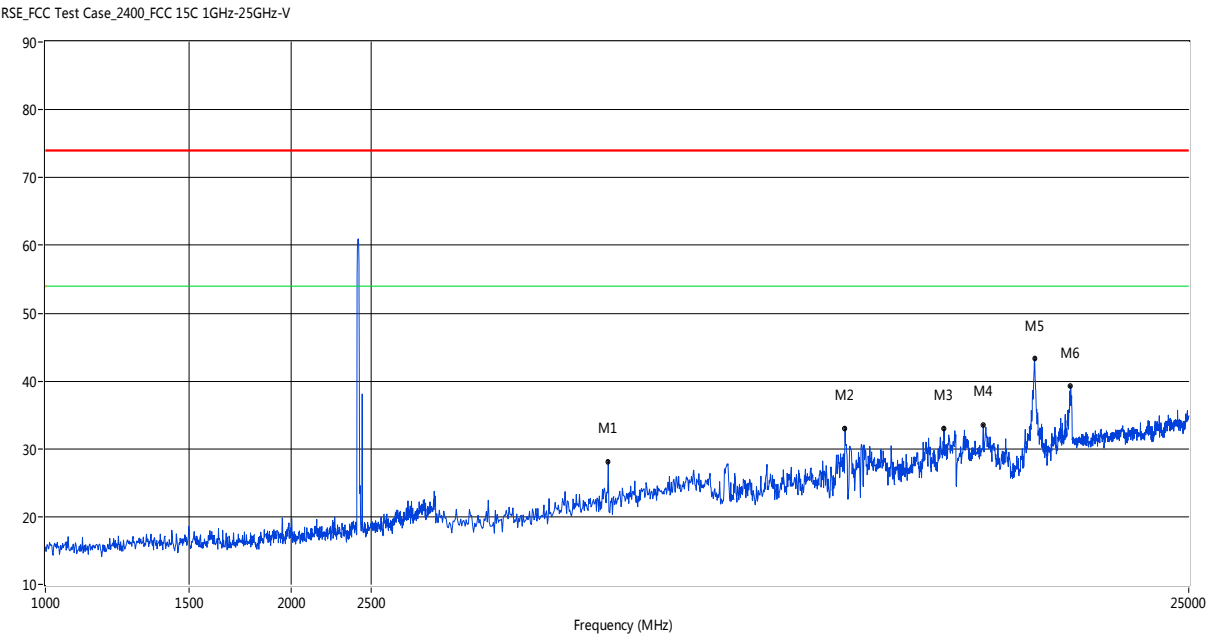
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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 28.87            | -23.06      | 74.0           | 45.13       | Peak     | 298.30    | 100         | Vertical | Pass    |
| 2   | 6816.184        | 30.92            | -18.86      | 74.0           | 43.08       | Peak     | 160.40    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.24            | -12.39      | 74.0           | 41.76       | Peak     | 144.10    | 100         | Vertical | Pass    |
| 4   | 12980.020       | 34.52            | -12.43      | 74.0           | 39.48       | Peak     | 2.80      | 100         | Vertical | Pass    |
| 5   | 16200.799       | 45.38            | -7.66       | 74.0           | 28.62       | Peak     | 189.30    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.16            | -12.66      | 74.0           | 34.84       | Peak     | 326.60    | 100         | Vertical | Pass    |

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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 28.14            | -23.29      | 74.0           | 45.86       | Peak     | 281.10    | 100         | Vertical | Pass    |
| 2   | 9503.497        | 33.00            | -12.39      | 74.0           | 41.00       | Peak     | 133.80    | 100         | Vertical | Pass    |
| 3   | 12550.450       | 33.00            | -13.78      | 74.0           | 41.00       | Peak     | 4.50      | 100         | Vertical | Pass    |
| 4   | 14018.981       | 33.58            | -19.34      | 74.0           | 40.42       | Peak     | 304.60    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 43.29            | -7.66       | 74.0           | 30.71       | Peak     | 72.10     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.21            | -12.66      | 74.0           | 34.79       | Peak     | 196.80    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

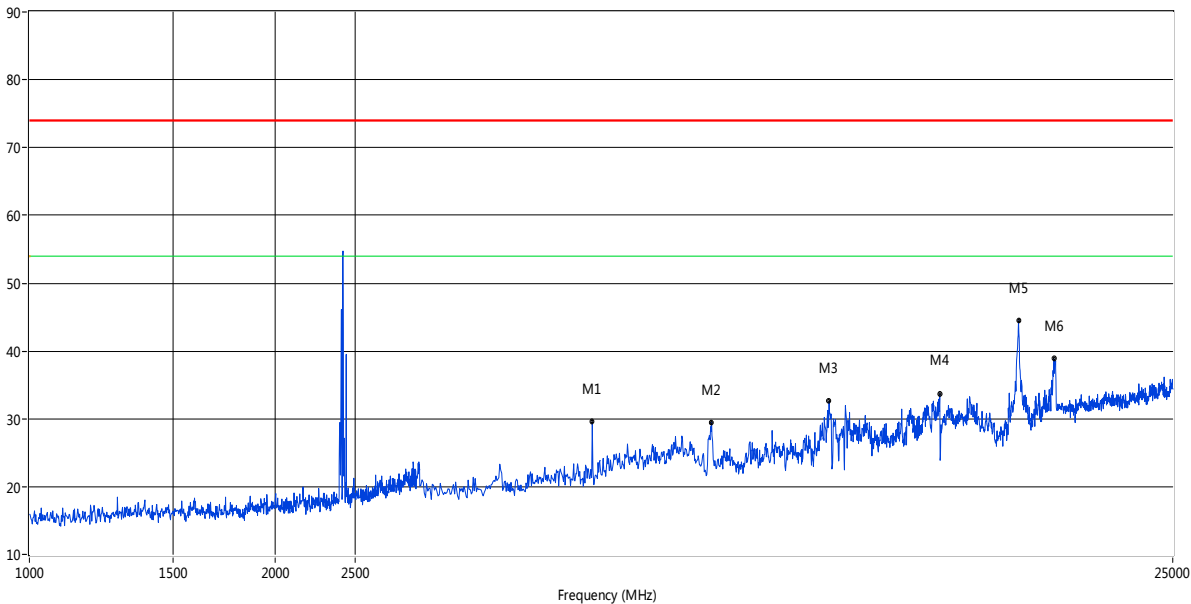
16083659 001

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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 29.57            | -23.29      | 74.0           | 44.43       | Peak     | 135.50    | 100         | Vertical | Pass    |
| 2   | 6826.174        | 29.43            | -18.95      | 74.0           | 44.57       | Peak     | 240.90    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.59            | -12.39      | 74.0           | 41.41       | Peak     | 240.90    | 100         | Vertical | Pass    |
| 4   | 12980.020       | 33.70            | -12.43      | 74.0           | 40.30       | Peak     | 177.70    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.47            | -7.66       | 74.0           | 29.53       | Peak     | 261.80    | 100         | Vertical | Pass    |
| 6   | 17903.097       | 38.85            | -12.83      | 74.0           | 35.15       | Peak     | 358.50    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

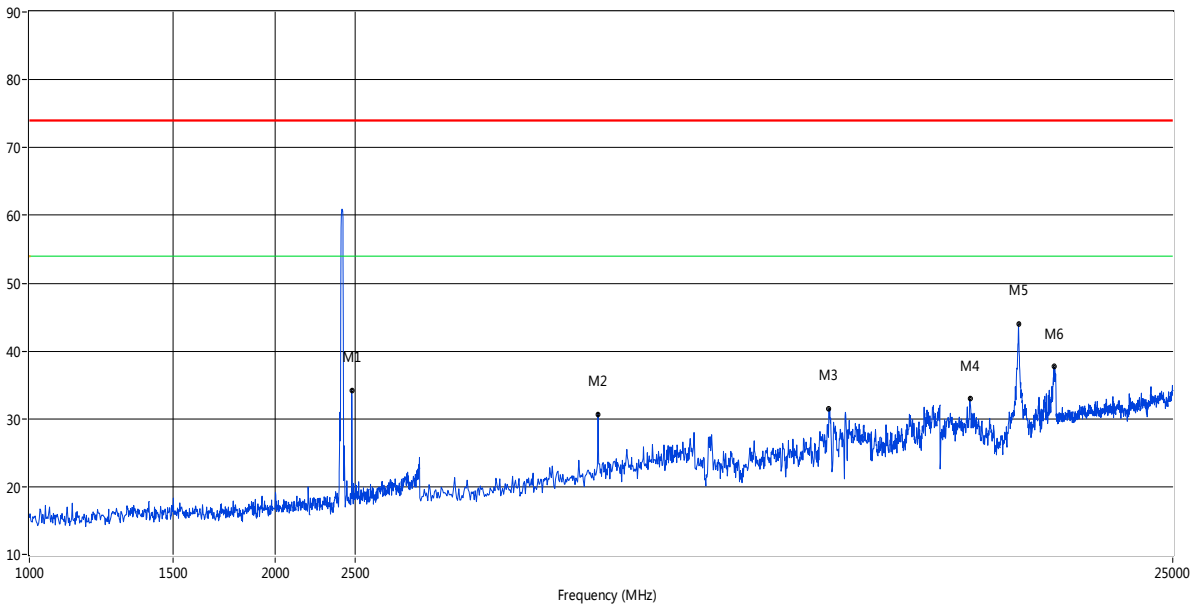
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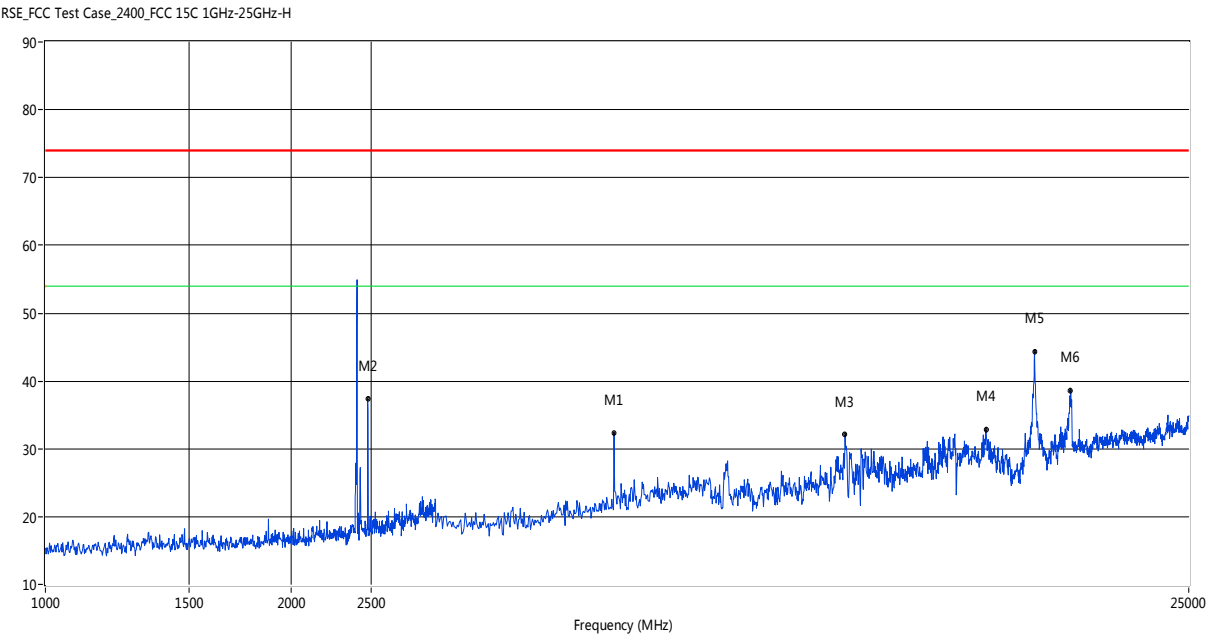
RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 2478.521        | 34.16            | -15.80      | 74.0           | 39.84       | Peak     | 105.50    | 100         | Vertical | Pass    |
| 2   | 4958.042        | 30.67            | -23.11      | 74.0           | 43.33       | Peak     | 330.80    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 31.51            | -12.39      | 74.0           | 42.49       | Peak     | 360.00    | 100         | Vertical | Pass    |
| 4   | 14126.873       | 32.93            | -19.13      | 74.0           | 41.07       | Peak     | 353.30    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.00            | -7.66       | 74.0           | 30.00       | Peak     | 311.30    | 100         | Vertical | Pass    |
| 6   | 17903.097       | 37.66            | -12.83      | 74.0           | 36.34       | Peak     | 316.90    | 100         | Vertical | Pass    |

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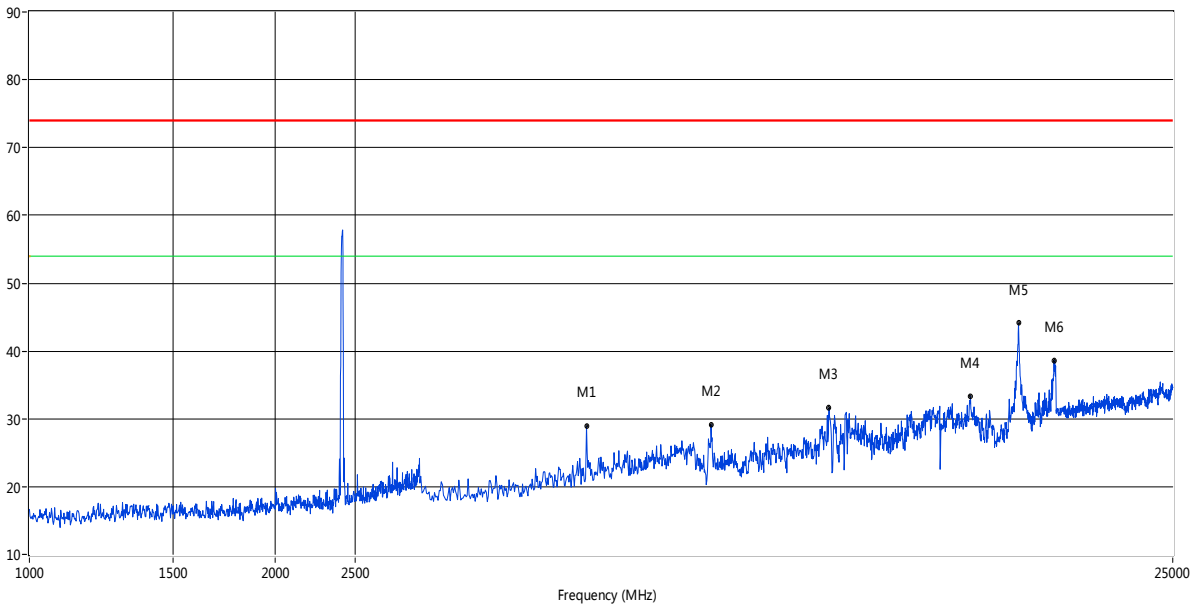


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4958.042        | 32.33            | -23.11      | 74.0           | 41.67       | Peak     | 324.30    | 100         | Vertical | Pass    |
| 2   | 2478.521        | 37.40            | -15.80      | 74.0           | 36.60       | Peak     | 267.70    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.13            | -12.39      | 74.0           | 41.87       | Peak     | 113.70    | 100         | Vertical | Pass    |
| 4   | 14126.873       | 32.85            | -19.13      | 74.0           | 41.15       | Peak     | 195.40    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.41            | -7.66       | 74.0           | 29.59       | Peak     | 351.60    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 38.62            | -12.66      | 74.0           | 35.38       | Peak     | 351.60    | 100         | Vertical | Pass    |

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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V

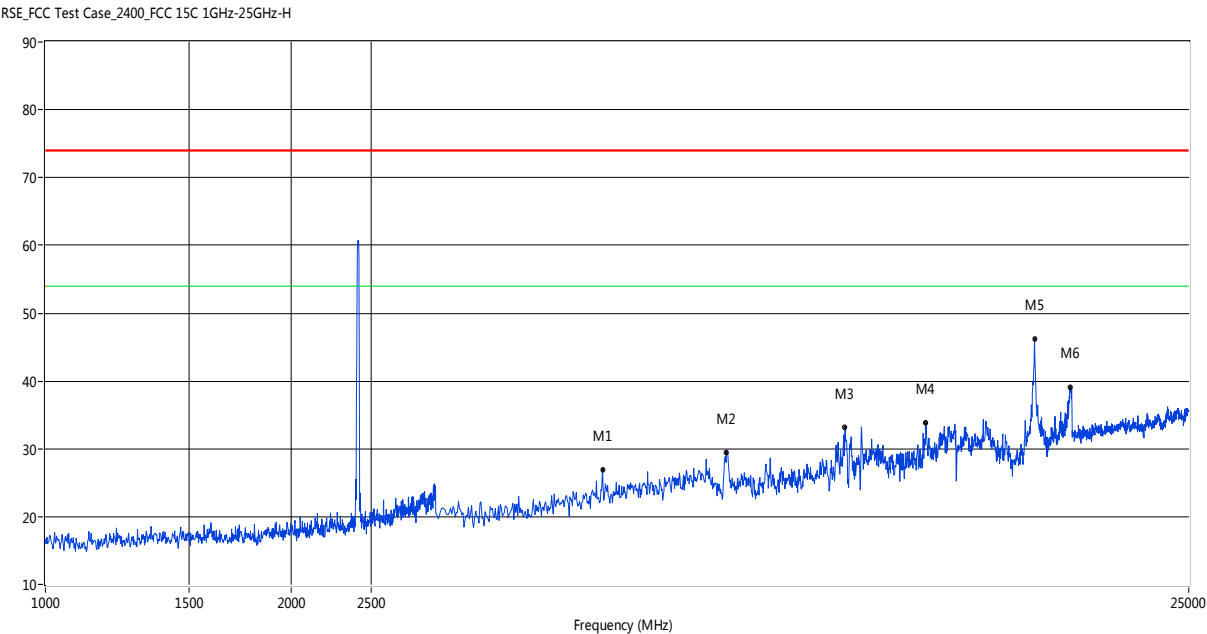


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 28.96            | -23.06      | 74.0           | 45.04       | Peak     | 2.30      | 100         | Vertical | Pass    |
| 2   | 6816.184        | 29.19            | -18.86      | 74.0           | 44.81       | Peak     | 148.30    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 31.64            | -12.39      | 74.0           | 42.36       | Peak     | 31.50     | 100         | Vertical | Pass    |
| 4   | 14150.849       | 33.33            | -20.17      | 74.0           | 40.67       | Peak     | 1.60      | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.10            | -7.66       | 74.0           | 29.90       | Peak     | 125.00    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 38.66            | -12.66      | 74.0           | 35.34       | Peak     | 136.20    | 100         | Vertical | Pass    |



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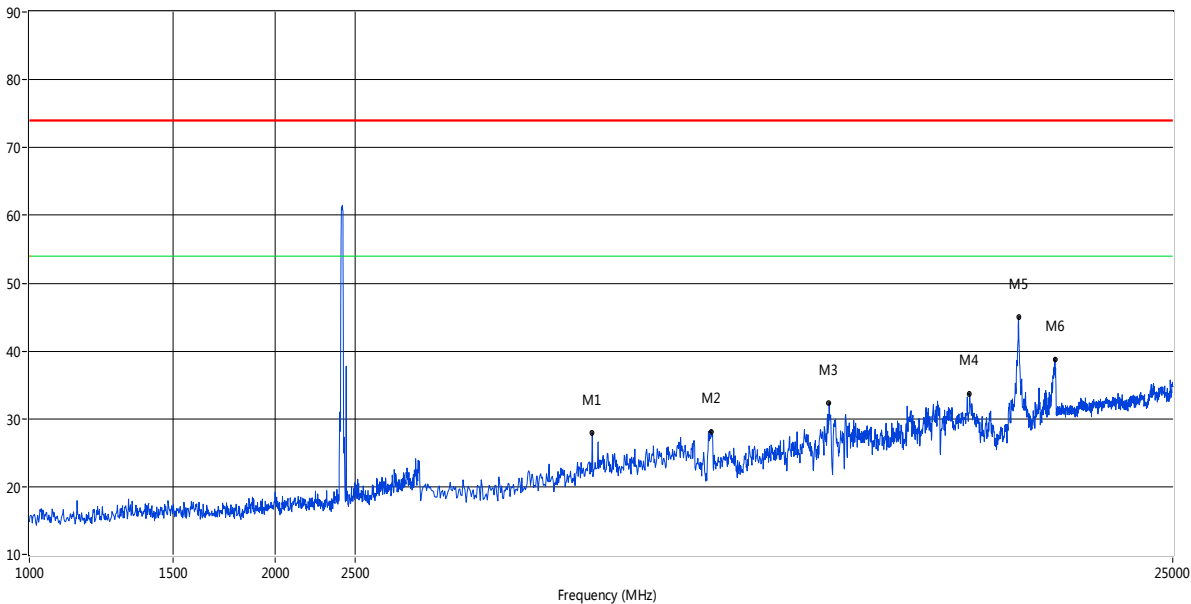


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 26.99            | -23.06      | 74.0           | 47.01       | Peak     | 156.90    | 100         | Vertical | Pass    |
| 2   | 6806.194        | 29.53            | -18.99      | 74.0           | 44.47       | Peak     | 135.70    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 33.25            | -12.39      | 74.0           | 40.75       | Peak     | 253.70    | 100         | Vertical | Pass    |
| 4   | 11931.069       | 33.91            | -13.69      | 74.0           | 40.09       | Peak     | 280.80    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 46.24            | -7.66       | 74.0           | 27.76       | Peak     | 83.50     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.10            | -12.66      | 74.0           | 34.90       | Peak     | 198.00    | 100         | Vertical | Pass    |

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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 27.89            | -23.29      | 74.0           | 46.11       | Peak     | 299.40    | 100         | Vertical | Pass    |
| 2   | 6816.184        | 28.12            | -18.86      | 74.0           | 45.88       | Peak     | 358.20    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.34            | -12.39      | 74.0           | 41.66       | Peak     | 9.70      | 100         | Vertical | Pass    |
| 4   | 14114.885       | 33.71            | -19.47      | 74.0           | 40.29       | Peak     | 264.00    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 45.00            | -7.66       | 74.0           | 29.00       | Peak     | 313.10    | 100         | Vertical | Pass    |
| 6   | 17951.049       | 38.82            | -13.74      | 74.0           | 35.18       | Peak     | 349.60    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

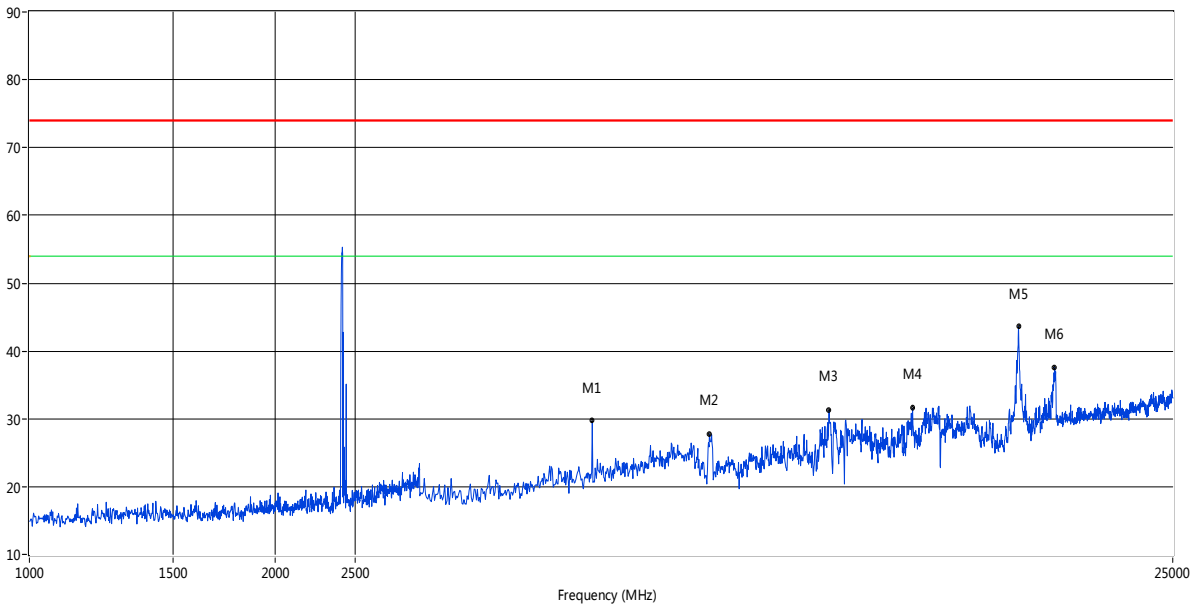
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 29.71            | -23.29      | 74.0           | 44.29       | Peak     | 132.10    | 100         | Vertical | Pass    |
| 2   | 6786.214        | 27.75            | -19.06      | 74.0           | 46.25       | Peak     | 83.50     | 100         | Vertical | Pass    |
| 3   | 9503.497        | 31.31            | -12.39      | 74.0           | 42.69       | Peak     | 194.20    | 100         | Vertical | Pass    |
| 4   | 12020.979       | 31.58            | -14.09      | 74.0           | 42.42       | Peak     | 173.40    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 43.65            | -7.66       | 74.0           | 30.35       | Peak     | 337.40    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 37.58            | -12.66      | 74.0           | 36.42       | Peak     | 219.10    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

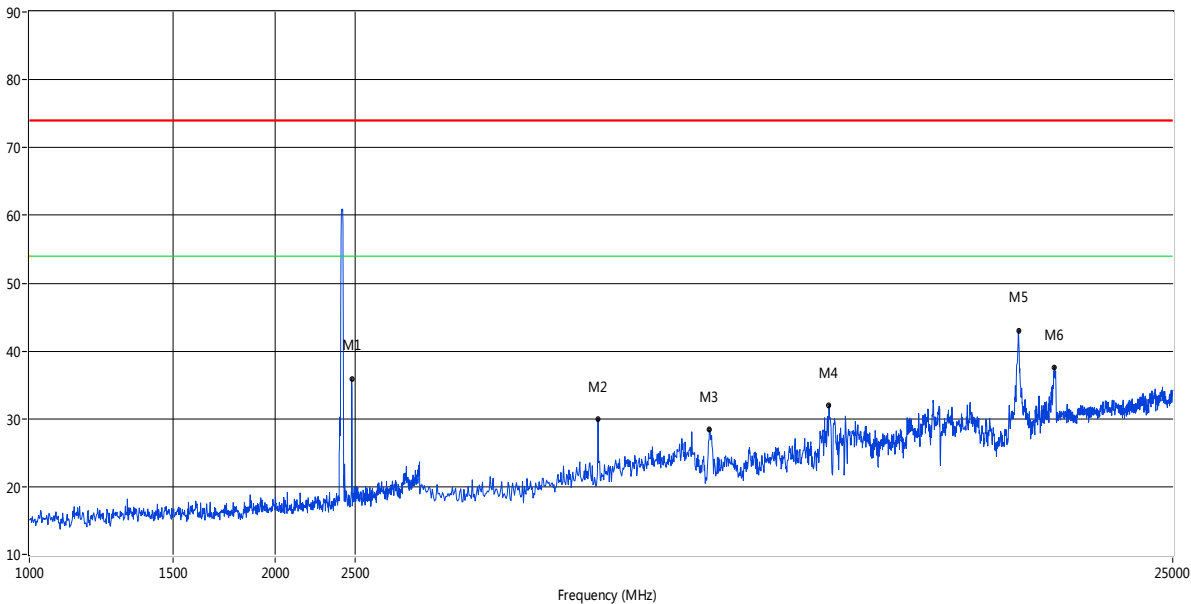
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 2478.521        | 35.83            | -15.80      | 74.0           | 38.17       | Peak     | 115.50    | 100         | Vertical | Pass    |
| 2   | 4958.042        | 29.90            | -23.11      | 74.0           | 44.10       | Peak     | 357.60    | 100         | Vertical | Pass    |
| 3   | 6786.214        | 28.37            | -19.06      | 74.0           | 45.63       | Peak     | 3.10      | 100         | Vertical | Pass    |
| 4   | 9503.497        | 31.95            | -12.39      | 74.0           | 42.05       | Peak     | 0.00      | 100         | Vertical | Pass    |
| 5   | 16200.799       | 42.99            | -7.66       | 74.0           | 31.01       | Peak     | 99.50     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 37.56            | -12.66      | 74.0           | 36.44       | Peak     | 21.90     | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

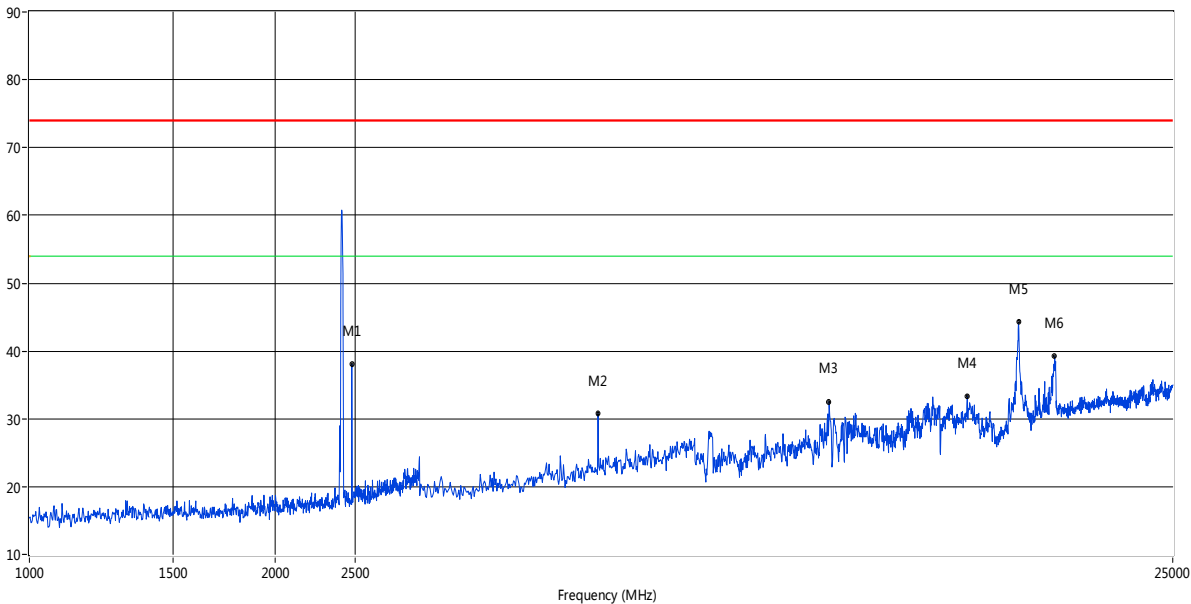
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 2480.519        | 38.05            | -15.81      | 74.0           | 35.95       | Peak     | 255.50    | 100         | Vertical | Pass    |
| 2   | 4958.042        | 30.77            | -23.11      | 74.0           | 43.23       | Peak     | 135.60    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.56            | -12.39      | 74.0           | 41.44       | Peak     | 327.30    | 100         | Vertical | Pass    |
| 4   | 14018.981       | 33.36            | -19.34      | 74.0           | 40.64       | Peak     | 158.80    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.29            | -7.66       | 74.0           | 29.71       | Peak     | 58.40     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.19            | -12.66      | 74.0           | 34.81       | Peak     | 235.00    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

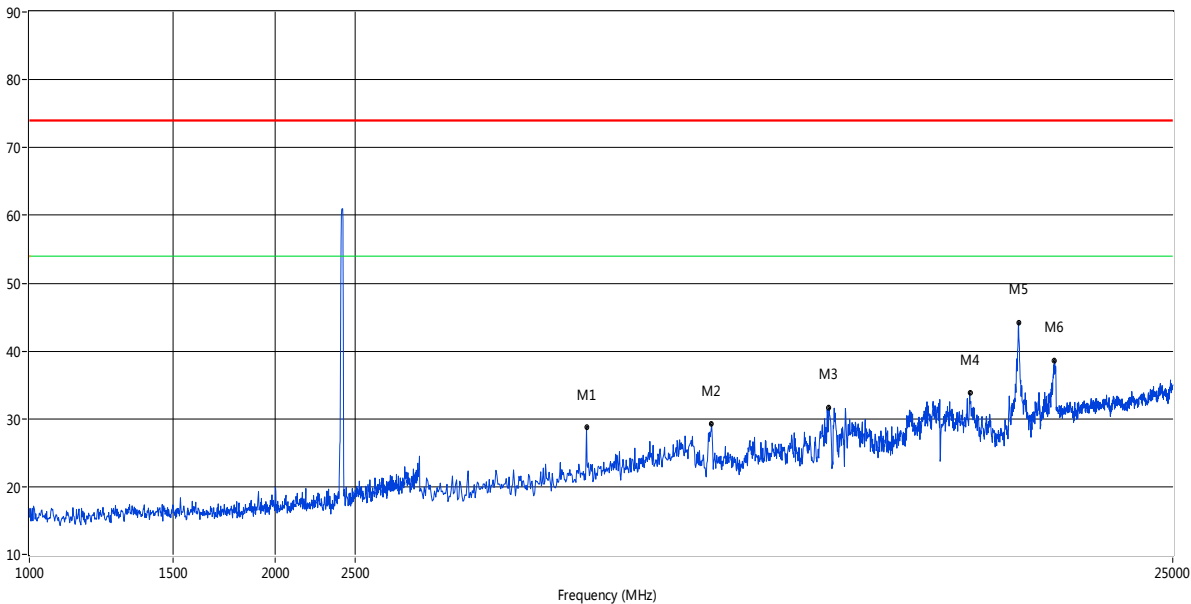
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 28.71            | -23.06      | 74.0           | 45.29       | Peak     | 6.20      | 100         | Vertical | Pass    |
| 2   | 6826.174        | 29.23            | -18.95      | 74.0           | 44.77       | Peak     | 278.60    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 31.64            | -12.39      | 74.0           | 42.36       | Peak     | 114.00    | 100         | Vertical | Pass    |
| 4   | 14126.873       | 33.81            | -19.13      | 74.0           | 40.19       | Peak     | 162.10    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.25            | -7.66       | 74.0           | 29.75       | Peak     | 309.80    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 38.58            | -12.66      | 74.0           | 35.42       | Peak     | 194.90    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

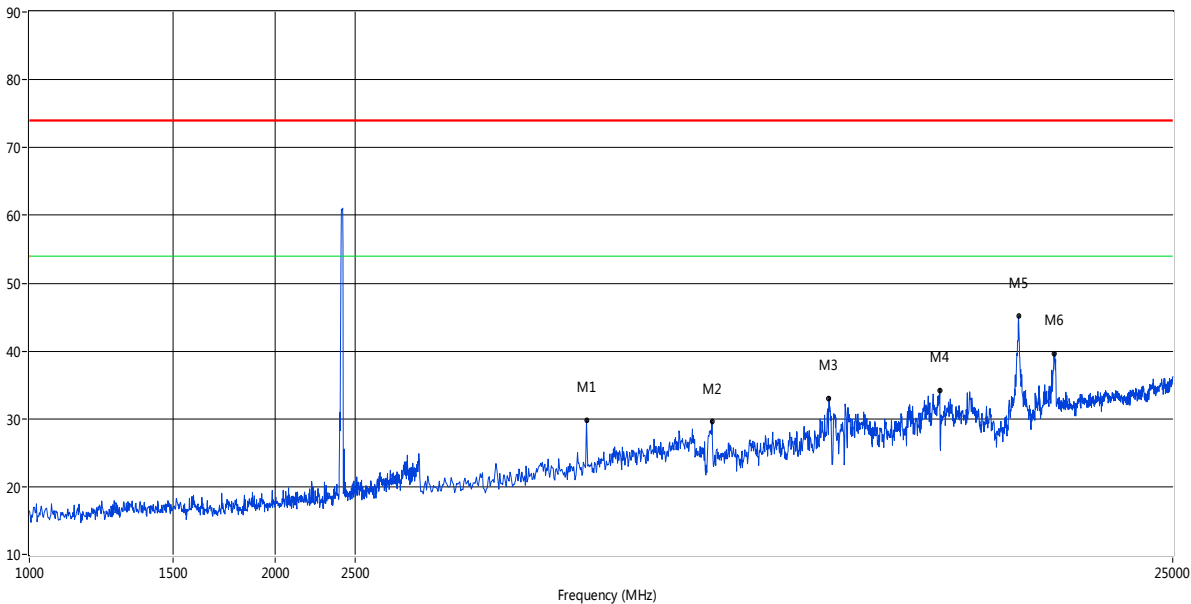
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4798.202        | 29.83            | -23.06      | 74.0           | 44.17       | Peak     | 300.40    | 100         | Vertical | Pass    |
| 2   | 6836.164        | 29.59            | -19.18      | 74.0           | 44.41       | Peak     | 125.80    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 33.04            | -12.39      | 74.0           | 40.96       | Peak     | 125.80    | 100         | Vertical | Pass    |
| 4   | 12980.020       | 34.20            | -12.43      | 74.0           | 39.80       | Peak     | 67.50     | 100         | Vertical | Pass    |
| 5   | 16200.799       | 45.15            | -7.66       | 74.0           | 28.85       | Peak     | 279.30    | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.66            | -12.66      | 74.0           | 34.34       | Peak     | 0.00      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

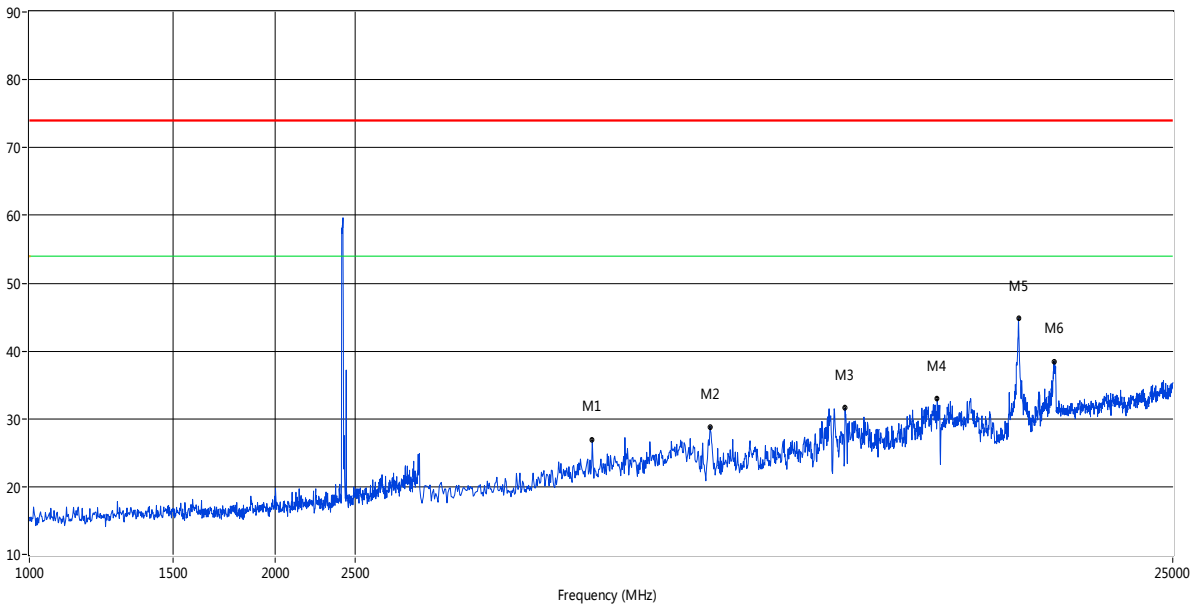
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V

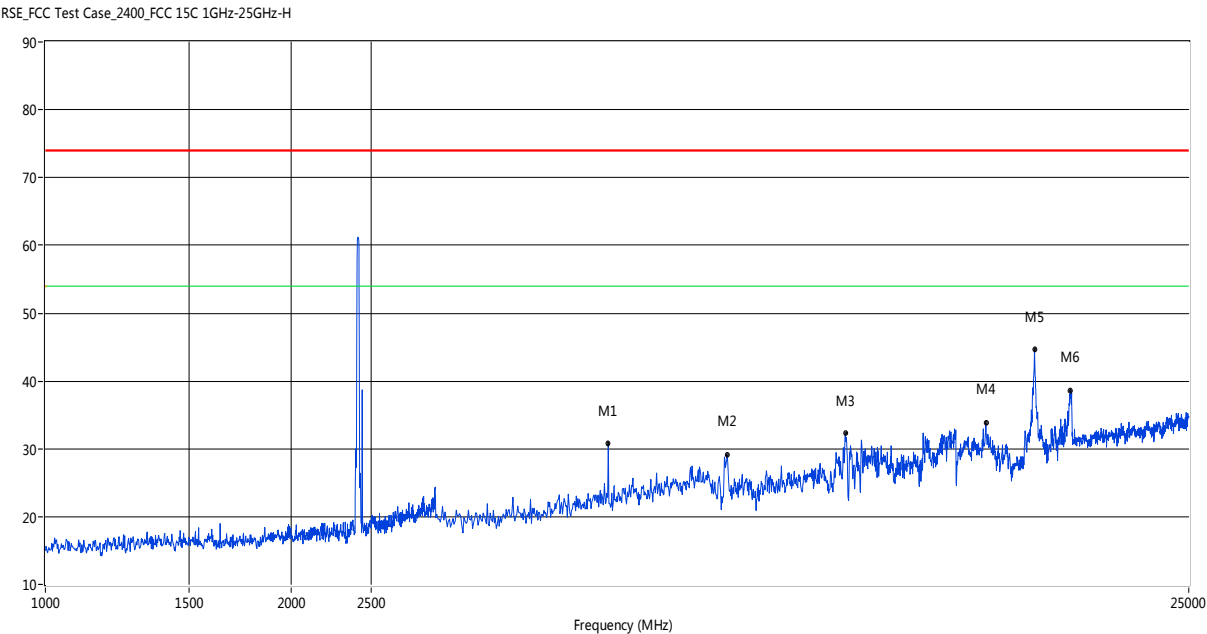


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 26.83            | -23.29      | 74.0           | 47.17       | Peak     | 159.50    | 100         | Vertical | Pass    |
| 2   | 6796.204        | 28.82            | -19.07      | 74.0           | 45.18       | Peak     | 329.60    | 100         | Vertical | Pass    |
| 3   | 9943.057        | 31.60            | -14.62      | 74.0           | 42.40       | Peak     | 261.10    | 100         | Vertical | Pass    |
| 4   | 12880.120       | 32.92            | -13.95      | 74.0           | 41.08       | Peak     | 138.30    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.82            | -7.66       | 74.0           | 29.18       | Peak     | 228.60    | 100         | Vertical | Pass    |
| 6   | 17903.097       | 38.44            | -12.83      | 74.0           | 35.56       | Peak     | 352.80    | 100         | Vertical | Pass    |



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Test Report No.

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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 4878.122        | 30.77            | -23.29      | 74.0           | 43.23       | Peak     | 128.20    | 100         | Vertical | Pass    |
| 2   | 6816.184        | 29.13            | -18.86      | 74.0           | 44.87       | Peak     | 112.20    | 100         | Vertical | Pass    |
| 3   | 9513.487        | 32.27            | -13.37      | 74.0           | 41.73       | Peak     | 313.60    | 100         | Vertical | Pass    |
| 4   | 14126.873       | 33.85            | -19.13      | 74.0           | 40.15       | Peak     | 25.50     | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.64            | -7.66       | 74.0           | 29.36       | Peak     | 91.70     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 38.66            | -12.66      | 74.0           | 35.34       | Peak     | 102.80    | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

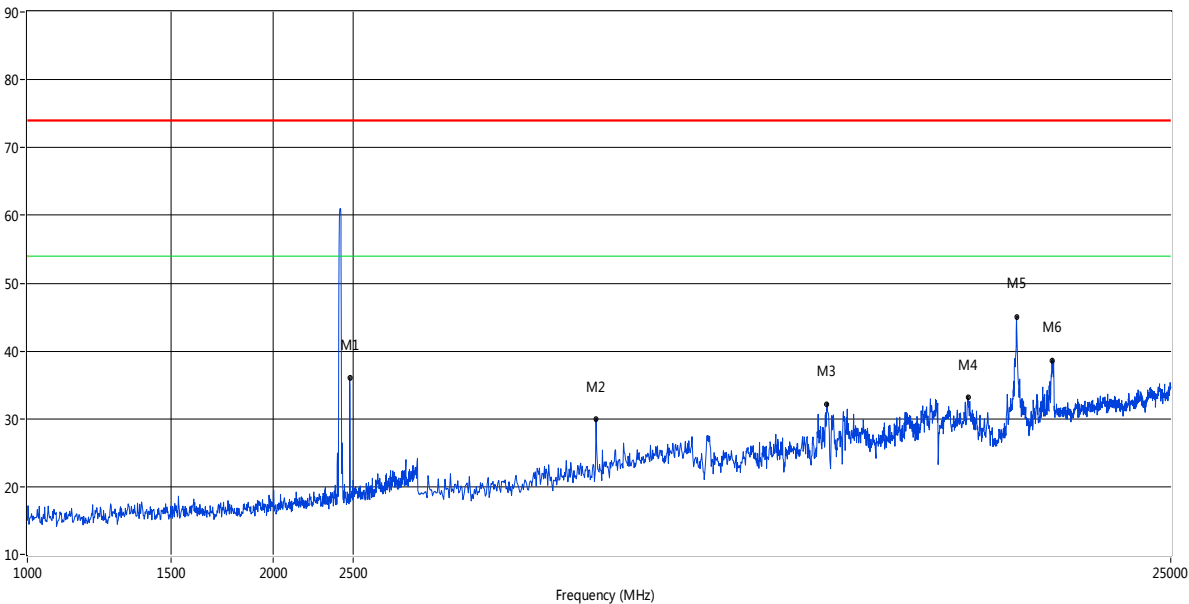
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 2478.521        | 36.01            | -15.80      | 74.0           | 37.99       | Peak     | 156.70    | 100         | Vertical | Pass    |
| 2   | 4958.042        | 29.93            | -23.11      | 74.0           | 44.07       | Peak     | 329.20    | 100         | Vertical | Pass    |
| 3   | 9503.497        | 32.19            | -12.39      | 74.0           | 41.81       | Peak     | 329.20    | 100         | Vertical | Pass    |
| 4   | 14126.873       | 33.12            | -19.13      | 74.0           | 40.88       | Peak     | 74.70     | 100         | Vertical | Pass    |
| 5   | 16200.799       | 45.04            | -7.66       | 74.0           | 28.96       | Peak     | 184.60    | 100         | Vertical | Pass    |
| 6   | 17903.097       | 38.66            | -12.83      | 74.0           | 35.34       | Peak     | 7.10      | 100         | Vertical | Pass    |

Prüfbericht - Nr.:

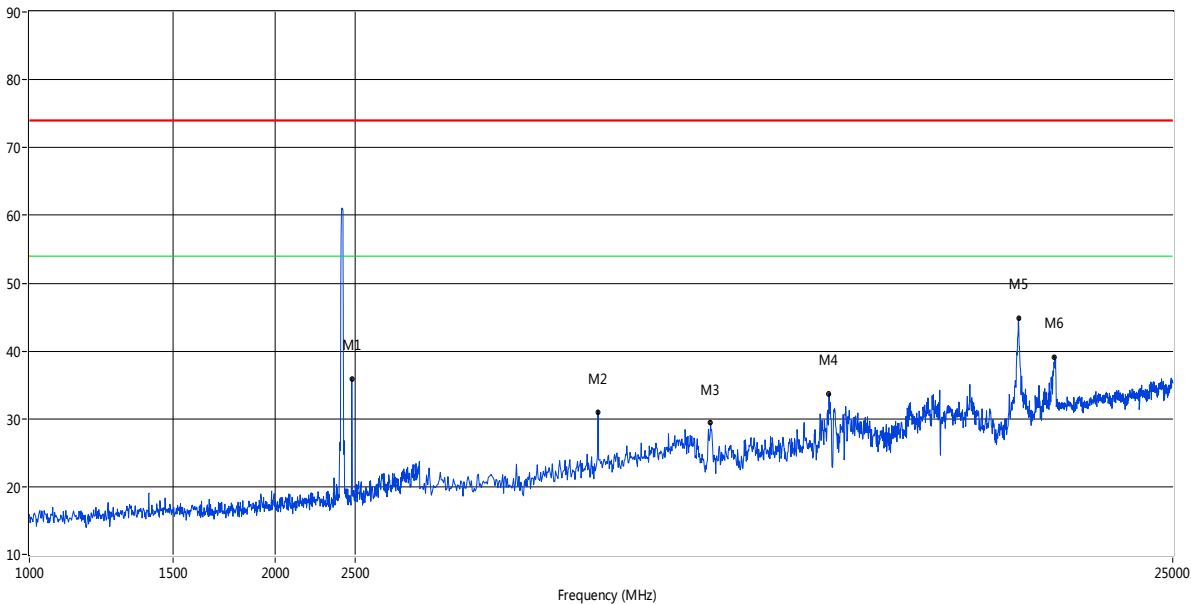
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RSE\_FCC Test Case\_2400\_FCC 15C 1GHz-25GHz-H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT      | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1   | 2478.521        | 35.86            | -15.80      | 74.0           | 38.14       | Peak     | 292.30    | 100         | Vertical | Pass    |
| 2   | 4958.042        | 31.01            | -23.11      | 74.0           | 42.99       | Peak     | 306.50    | 100         | Vertical | Pass    |
| 3   | 6806.194        | 29.39            | -18.99      | 74.0           | 44.61       | Peak     | 357.20    | 100         | Vertical | Pass    |
| 4   | 9503.497        | 33.72            | -12.39      | 74.0           | 40.28       | Peak     | 153.90    | 100         | Vertical | Pass    |
| 5   | 16200.799       | 44.91            | -7.66       | 74.0           | 29.09       | Peak     | 33.40     | 100         | Vertical | Pass    |
| 6   | 17939.061       | 39.14            | -12.66      | 74.0           | 34.86       | Peak     | 360.00    | 100         | Vertical | Pass    |

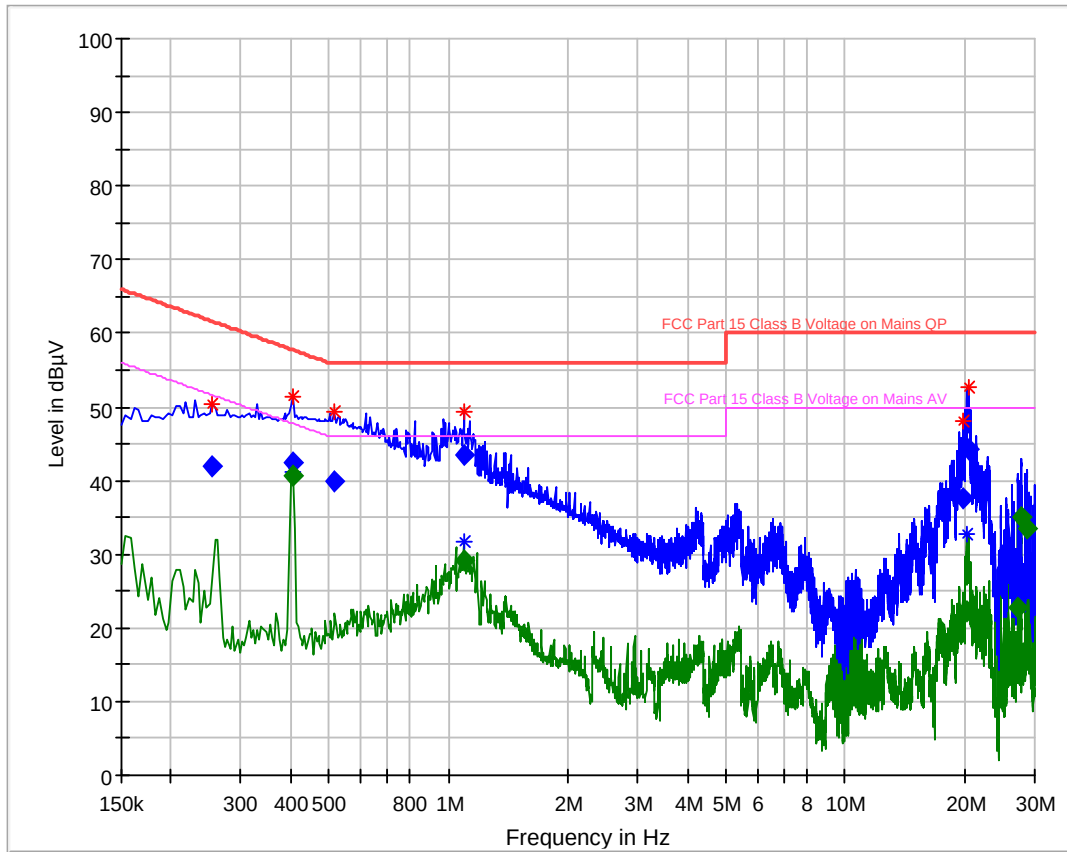
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| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.254000        | 41.90            | ---             | 61.63        | 19.73       | 1000.           | 9.000           | L1   | OFF    | 9.6        |
| 0.406000        | 42.39            | ---             | 57.73        | 15.34       | 1000.           | 9.000           | N    | OFF    | 9.7        |
| 0.406000        | ---              | 40.75           | 47.73        | 6.98        | 1000.           | 9.000           | L1   | OFF    | 9.7        |
| 0.514000        | 39.96            | ---             | 56.00        | 16.04       | 1000.           | 9.000           | L1   | OFF    | 9.6        |
| 1.090000        | ---              | 29.26           | 46.00        | 16.74       | 1000.           | 9.000           | L1   | OFF    | 9.6        |
| 1.094000        | 43.52            | ---             | 56.00        | 12.48       | 1000.           | 9.000           | L1   | OFF    | 9.6        |
| 19.754000       | 37.62            | ---             | 60.00        | 22.38       | 1000.           | 9.000           | L1   | OFF    | 9.9        |
| 20.274000       | ---              | 22.27           | 50.00        | 27.73       | 1000.           | 9.000           | L1   | OFF    | 9.9        |
| 20.542000       | 44.21            | ---             | 60.00        | 15.79       | 1000.           | 9.000           | L1   | OFF    | 10.0       |
| 27.094000       | ---              | 22.74           | 50.00        | 27.26       | 1000.           | 9.000           | L1   | OFF    | 10.1       |
| 27.882000       | ---              | 35.01           | 50.00        | 14.99       | 1000.           | 9.000           | L1   | OFF    | 10.0       |
| 28.694000       | ---              | 33.57           | 50.00        | 16.43       | 1000.           | 9.000           | N    | OFF    | 10.0       |