

## FCC TEST REPORT / IC TEST REPORT

### APPLICANT

Company: **Multiplex Modellsport GmbH & Co. KG**  
 Address: **Westliche Gewerbestr. 1**  
**D - 75015 Bretten-Gölshausen (Germany)**  
 Witness(es) at tests: -

### EQUIPMENT UNDER TEST (EUT)

Equipment: **Transmitter remote control**  
 Model/Type: **Cockpit SX9 Trinity**  
 Serial No.: **# 4260574660130**

### TEST

Arrival of EUT: **2018-01-30**  
 Date of measurement: **2018-02-08**  
 Standards: **47 CFR Part 15, Subpart B, class B**  
**ICES-003 Issue 6, class B**  
 Results: **Passed - Details see test result summary**  
 Performed by: **Dipl.-Ing. Th. W. Stein**

### LABORATORY

Test site: **Nemko GmbH & Co. KG, Pfinztal, (Germany)**  
 FCC Reg. No.: **973501**  
 IC File No.: **10921A-1**

### TEST REPORT

Identification No.: **FC-1801-347031-001**  
 Date of Report: **2018-07-02**

Provided by: **Dipl.-Ing. Th. W. Stein**  
 Person responsible

Signature

Approved by: **Dipl.-Ing. M. Korny**  
 Person responsible

Signature

QMV-5.10-2 e / Rev 5.10

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## 1 General information

### 1.1 Description of Equipment under test (EUT)

The EuT is a transmitter control unit for model planes.

### 1.2 Technical data

|                                  |   |
|----------------------------------|---|
| Maximum internal frequency (CPU) | 120 MHz   |
| Power supply of EuT              | 5 V DC<br>(is supplied with an external power supply for charging only) |

### 1.3 Climatic conditions

| parameter            | actual range     |
|----------------------|------------------|
| Ambient temperature  | 20 - 22 °C       |
| Relative humidity    | 30 - 32 %        |
| Atmospheric pressure | 1002 - 1004 mbar |

### 1.4 Other comments

For conducted emission the AC-Adaptor MPX was in use with 115 V / 60 Hz.

### 1.5 Test equipment

See list of test equipment in clause 4.

### 1.6 Project history

| test report<br>(Ident.-No.) | date of report | modification of the EuT | Change in standard<br>in clause: |
|-----------------------------|----------------|-------------------------|----------------------------------|
| FC-1801-347031-001          | 2018-07-02     | -                       | initial test report              |

## 2 Test Report Summary

### 2.1 General

The tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with:

**47 CFR Part 15, Subpart B, class B**  
**ICES-003 Issue 6, class B**

The test methods have been in accordance with 47 CFR Part 15 and RSS where applicable.

- Production Unit  
 Pre-production Unit

**THIS TEST REPORT RELATES ONLY TO THE ITEM(S) AND CONFIGURATIONS TESTED.**  
**Deviations from, additions to, or exclusions from the test specifications**  
**are described in "Test results".**



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## 2.2 Test Summary

| Section in CFR 47 |                                   | Result |
|-------------------|-----------------------------------|--------|
| 15.109            | Spurious radiated emissions       | PASS   |
| 15.107            | AC power line conducted emissions | PASS   |

| Section in RSS      |                                   | Result |
|---------------------|-----------------------------------|--------|
| ICES-003 clause 6.2 | Spurious radiated emissions       | PASS   |
| ICES-003 clause 6.1 | AC power line conducted emissions | PASS   |

### Explanations:

PASS The EUT passed that particular test.

FAIL The EUT failed that particular test.

X The measurement was done, but there is no applicable performance criteria.

### 3 Test Results

#### 3.1 Spurious radiated emissions

The test was performed as a compliance test. The test parameters concerned were as follows:

| Parameter            | Specification   |
|----------------------|---|
| Frequency range      | 30 - 2000 MHz (normal operation)  |
| Limits FCC           | §15.109 class B   |
| Limits IC            | ICES-003 clause 6.2 class B   |
| Test uncertainty U95 | 4.17 dB (30 - 200 MHz) horizontal<br>4.77 dB (30 - 200 MHz) vertical<br>4.54 dB (200 - 1000 MHz) horizontal<br>6.38 dB (200 - 1000 MHz) vertical<br>7.07 dB (1 - 6 GHz) |

#### Test method and limits

The test was performed in a test chamber according to ANSI C63.4-2009 / ANSI C63.4-2014:.. The EUT was placed on a non-conductive 0.8 m high support standing on the turntable (see fig. 1, 2). In order to find the maximum levels of the disturbance radiation the angle of the turntable, the height of the measuring antenna and the lay-out of the EUT cables were varied during the tests. The test was performed separately with the measuring antenna being both in horizontal and vertical polarizations.

Receiver bandwidth and measuring distance:

| Frequency band<br>MHz | Receiver bandwidth<br>kHz | Measuring distance<br>m |
|-----------------------|---------------------------|-------------------------|
| 30-1000               | 120                       | 3                       |
| 1000-2000             | 1000                      | 3                       |

#### FCC Part 15.109 / ICES-003 class B limit values

| Frequency band<br>MHz | Quasi-peak<br>$\mu\text{V/m}$ | Quasi-peak<br>$\text{dB}(\mu\text{V/m}) @3 \text{ m}$ | Average<br>$\text{dB}(\mu\text{V/m}) @3 \text{ m}$ |
|-----------------------|-------------------------------|---|--|
| 30 - 88               | 100 @3 m                      | 40.0 @3 m   | -  |
| 88 - 216              | 150 @3 m                      | 43.5 @3 m   | -  |
| 216-960               | 200 @3 m                      | 46.0 @3 m   | -  |
| 960-1000              | 500 @3 m                      | 54.0 @3 m   | -  |
| 1000-2000             | -                             | 73.98 @3 m *)   | 53.98 @3 m   |

\*) Peak

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Date: 2018-07-02

EMV  
Testzentrum ██████████

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**Test result: Passed.**

**Test Equipment Used: (30 MHz < f < 200 MHz):**  
1-0040; 1-0361; 1-0364; 1-0604; 1-0619; 1-0624

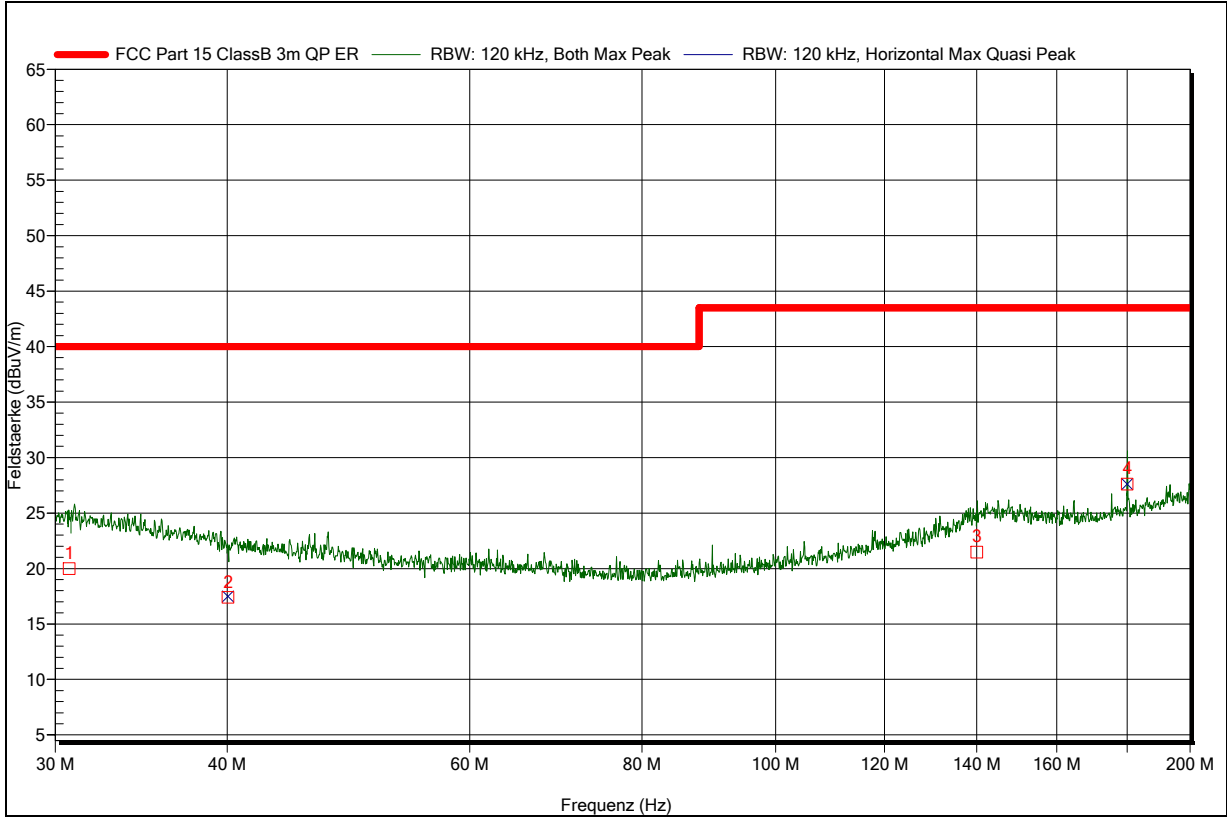
**Test Equipment Used: (200 MHz < f < 1 GHz):**  
1-0055; 1-0361; 1-0364; 1-0604; 1-0619; 1-0624

**Test Equipment Used: (1 GHz > f > 2 GHz):**  
1-0361; 1-0611; 1-0614; 1-0615; 1-0619; 1-0620; 1-0624



### 3.2 Measurement results

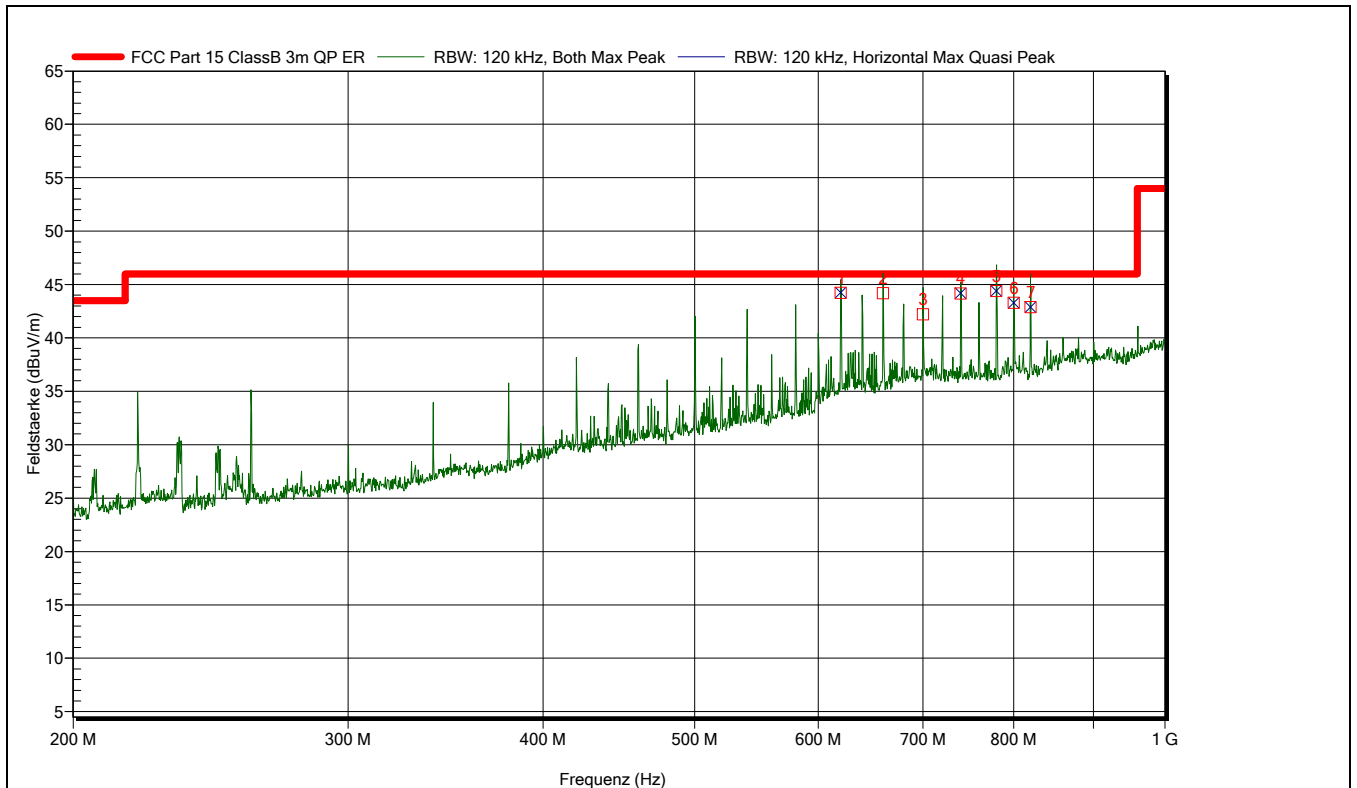
#### 3.2.1 Diagram 347031-1ER (30 MHz – 200 MHz)



#### 3.2.2 Table 347031-1ER Quasipeak (30 MHz – 200 MHz)

| Peak No. | Frequency   | Quasi-Peak   | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Correction | Quasi-Peak Status | Angle       | Height | Polarization |
|----------|-------------|--------------|------------------|-----------------------|-----------------------|-------------------|-------------|--------|--------------|
| 1        | 30,720 MHz  | 19,99 dBuV/m | 40,00 dBuV/m     | -20,01 dB             | 24,2 dB               | Pass              | -10,00 Grad | 1,3 m  | Vertical     |
| 2        | 40,050 MHz  | 17,39 dBuV/m | 40,00 dBuV/m     | -22,61 dB             | 22 dB                 | Pass              | 43,00 Grad  | 3,4 m  | Horizontal   |
| 3        | 139,980 MHz | 21,47 dBuV/m | 43,50 dBuV/m     | -22,03 dB             | 22,5 dB               | Pass              | 259,00 Grad | 1 m    | Vertical     |
| 4        | 180,000 MHz | 27,61 dBuV/m | 43,50 dBuV/m     | -15,89 dB             | 23,7 dB               | Pass              | 280,00 Grad | 2,2 m  | Horizontal   |

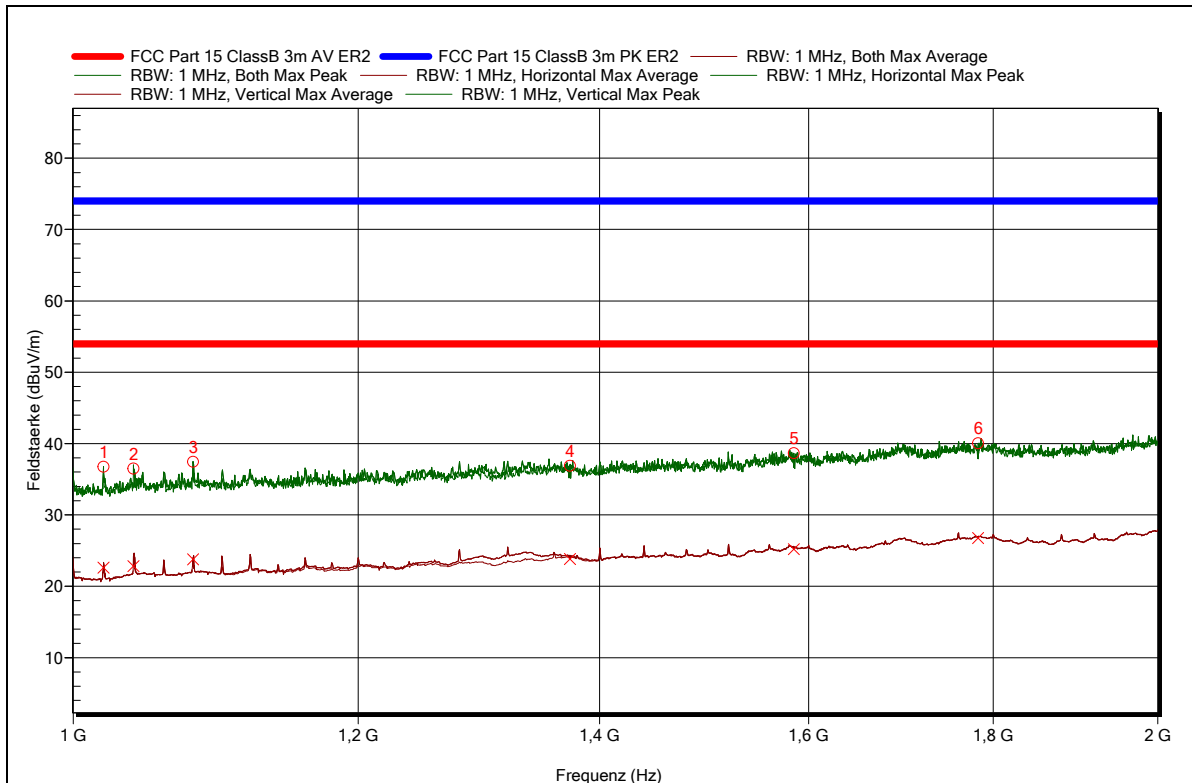
### 3.2.3 Diagram 343031-2ER (200 MHz – 1000 MHz)



### 3.2.4 Table 347031-2ER Quasipeak (200 MHz – 1000 MHz)

| Peak No. | Frequency   | Quasi-Peak   | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Correction | Quasi-Peak Status | Angle       | Height | Polarization |
|----------|-------------|--------------|------------------|-----------------------|-----------------------|-------------------|-------------|--------|--------------|
| 1        | 619,970 MHz | 44,22 dBuV/m | 46,00 dBuV/m     | -1,78 dB              | 20,9 dB               | Pass              | 259,00 Grad | 3,8 m  | Horizontal   |
| 2        | 659,960 MHz | 44,20 dBuV/m | 46,00 dBuV/m     | -1,8 dB               | 21,4 dB               | Pass              | 157,00 Grad | 1 m    | Vertical     |
| 3        | 699,980 MHz | 42,22 dBuV/m | 46,00 dBuV/m     | -3,78 dB              | 22,7 dB               | Pass              | 189,00 Grad | 2,6 m  | Vertical     |
| 4        | 739,970 MHz | 44,16 dBuV/m | 46,00 dBuV/m     | -1,84 dB              | 22,6 dB               | Pass              | 9,00 Grad   | 1,2 m  | Horizontal   |
| 5        | 779,960 MHz | 44,38 dBuV/m | 46,00 dBuV/m     | -1,62 dB              | 22,7 dB               | Pass              | 11,00 Grad  | 1,1 m  | Horizontal   |
| 6        | 799,970 MHz | 43,29 dBuV/m | 46,00 dBuV/m     | -2,71 dB              | 23,3 dB               | Pass              | 21,00 Grad  | 1,1 m  | Horizontal   |
| 7        | 819,950 MHz | 42,87 dBuV/m | 46,00 dBuV/m     | -3,13 dB              | 23,1 dB               | Pass              | 34,00 Grad  | 1 m    | Horizontal   |

### 3.2.5 Diagram 347031-ER2 (1000 MHz – 2000 MHz)



### 3.2.6 Table 347031-ER2 Peak (1000 MHz – 2000 MHz)

| Peak No. | Frequency | Peak         | Peak Limit   | Peak Difference | Peak Correction | Peak Status | Angle       | Height | Polarization |
|----------|-----------|--------------|--------------|-----------------|-----------------|-------------|-------------|--------|--------------|
| 1        | 1.020 GHz | 36.77 dBuV/m | 73.98 dBuV/m | -37.21 dB       | -11.7 dB        | Pass        | -30.00 Grad | 1 m    | Horizontal   |
| 2        | 1.040 GHz | 36.48 dBuV/m | 73.98 dBuV/m | -37.5 dB        | -11.3 dB        | Pass        | -6.00 Grad  | 1 m    | Horizontal   |
| 3        | 1.080 GHz | 37.47 dBuV/m | 73.98 dBuV/m | -36.51 dB       | -11 dB          | Pass        | -51.00 Grad | 1 m    | Horizontal   |
| 4        | 1.374 GHz | 36.90 dBuV/m | 73.98 dBuV/m | -37.08 dB       | -8.7 dB         | Pass        | 10.00 Grad  | 1 m    | Horizontal   |
| 5        | 1.585 GHz | 38.66 dBuV/m | 73.98 dBuV/m | -35.32 dB       | -7.2 dB         | Pass        | -10.00 Grad | 1 m    | Vertical     |
| 6        | 1.783 GHz | 40.04 dBuV/m | 73.98 dBuV/m | -33.94 dB       | -5.3 dB         | Pass        | 142.00 Grad | 1 m    | Horizontal   |

**3.2.7 Table 347031-ER2 Average (1000 MHz – 2000 MHz)**

| Peak No. | Frequency | Average      | Average Limit | Average Difference | Average Correction | Average Status | Angle       | Height | Polarization |
|----------|-----------|--------------|---------------|--------------------|--------------------|----------------|-------------|--------|--------------|
| 1        | 1.020 GHz | 22.63 dBuV/m | 53.98 dBuV/m  | -31.35 dB          | -11.7 dB           | Pass           | -30.00 Grad | 1 m    | Horizontal   |
| 2        | 1.040 GHz | 22.82 dBuV/m | 53.98 dBuV/m  | -31.16 dB          | -11.3 dB           | Pass           | -6.00 Grad  | 1 m    | Horizontal   |
| 3        | 1.080 GHz | 23.78 dBuV/m | 53.98 dBuV/m  | -30.2 dB           | -11 dB             | Pass           | -51.00 Grad | 1 m    | Horizontal   |
| 4        | 1.374 GHz | 23.83 dBuV/m | 53.98 dBuV/m  | -30.15 dB          | -8.7 dB            | Pass           | 10.00 Grad  | 1 m    | Horizontal   |
| 5        | 1.585 GHz | 25.20 dBuV/m | 53.98 dBuV/m  | -28.78 dB          | -7.2 dB            | Pass           | -10.00 Grad | 1 m    | Vertical     |
| 6        | 1.783 GHz | 26.76 dBuV/m | 53.98 dBuV/m  | -27.22 dB          | -5.3 dB            | Pass           | 142.00 Grad | 1 m    | Horizontal   |

### 3.3 AC power line conducted emissions

The test was performed as a compliance test. The test parameters concerned were as follows:

| Parameter            | Specification   |
|----------------------|---|
| Frequency range      | 0.15 - 30 MHz   |
| Limits FCC           | §15.107 class B   |
| Limits IC            | ICES-003 clause 6.1 class B                             |
| Test uncertainty U95 | 4.06 dB (9 kHz - 150 kHz)<br>3.58 dB (150 kHz - 30 MHz) |

#### Test method and limits

The test was performed according to ANSI C63.4-2009 / ANSI C63.4-2014 inside a shielded room where the floor and one of the walls of the test site comprised the reference ground plane (RGP). The test was performed at the AC input of the supplied AC/DC converter. For the duration of the test EUT and external supply were placed on a non-conductive support 0.8 m high 0.4 m apart from the vertical RGP (see fig. 3). The excess lengths of the cables of the EUT were made into bundles 30 -40 cm in length. The power input cable of the external supply was connected to an artificial mains network. The test was performed separately on each phase and also on the neutral wire.

The disturbances were first examined by performing a spectrum scan by using a peak detector. The general procedure in the conducted disturbance emission test is that no further measurements are necessary if the disturbance levels measured by using the peak detector are below the limit value defined for the measurement performed by using an average detector. If not, then at the test frequencies concerned the measurement is performed also by using a quasi-peak detector. If the disturbance levels measured by using the quasi-peak detector are below the limit value defined for the measurement performed by using an average detector, then measurements by using the average detector are not necessary.

#### FCC Part 15.107 / ICES-003 class B limit values

| Frequency MHz | Quasi-peak dB $\mu$ V | Average dB $\mu$ V |
|---------------|-----------------------|--------------------|
| 0.15 – 0.5    | 66 - 56               | 56 -46             |
| 0.5 – 5       | 56                    | 46                 |
| 5 – 30        | 60                    | 50                 |

#### Test result: Passed

The EuT was in charging mode

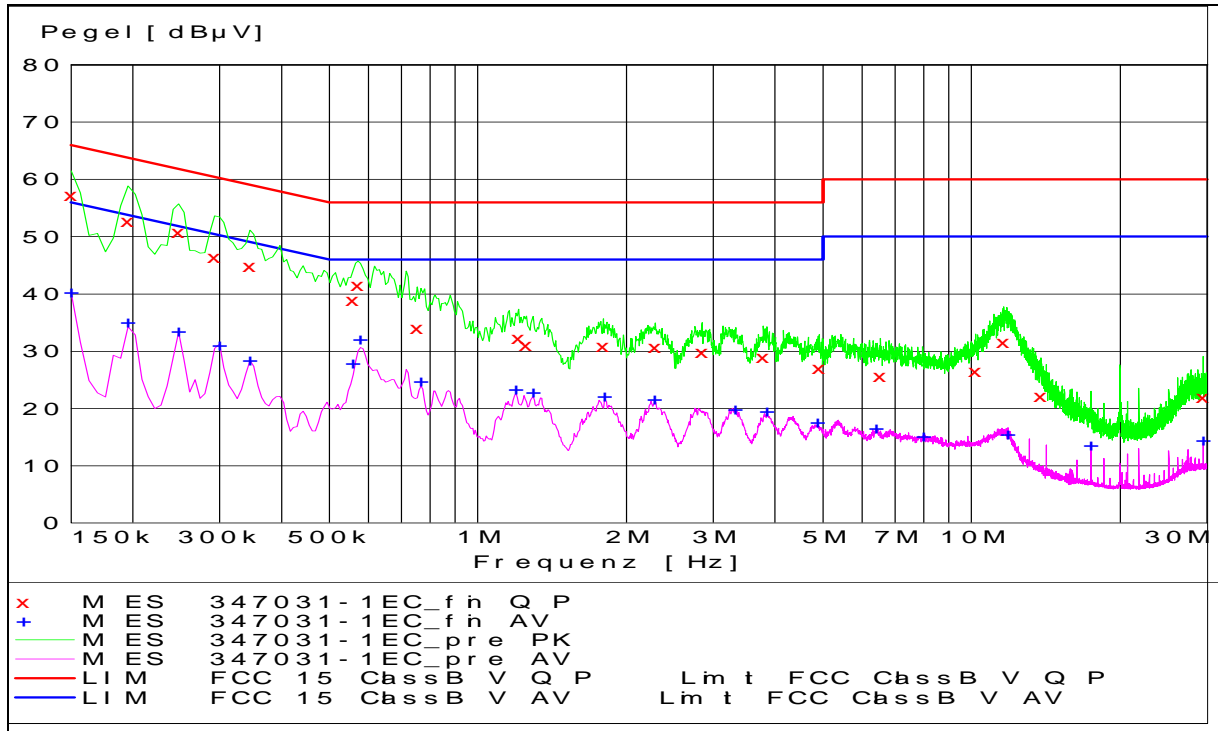
#### Test Equipment Used:

1-0054; 1-0069; 1-0071; 1-0072; 1-0361; 1-0364

### 3.4 Measurement results

#### 3.4.1 Diagram 347031-1EC (0.15 - 30 MHz)

#### 3.4.2



#### 3.4.3 Table Final measurements 347031-1EC\_fin QP (0.15 - 30 MHz)

| Frequenz<br>MHz | Pegel<br>dBµV | Transd<br>dB | Limit<br>dBµV | Margin<br>dB | Line | PE  |
|-----------------|---------------|--------------|---------------|--------------|------|-----|
| 0.150000        | 57.30         | 10.00        | 66.00         | 8.70         | N    | FLO |
| 0.195500        | 52.80         | 10.00        | 63.80         | 11.00        | N    | FLO |
| 0.247500        | 50.80         | 10.00        | 61.80         | 11.00        | N    | FLO |
| 0.293000        | 46.40         | 10.00        | 60.40         | 14.10        | N    | FLO |
| 0.345000        | 45.00         | 10.00        | 59.10         | 14.00        | N    | FLO |
| 0.559500        | 38.90         | 10.00        | 56.00         | 17.10        | N    | FLO |
| 0.572500        | 41.60         | 10.00        | 56.00         | 14.40        | N    | FLO |
| 0.754500        | 34.00         | 10.00        | 56.00         | 22.00        | N    | FLO |
| 1.209500        | 32.30         | 10.00        | 56.00         | 23.70        | N    | FLO |
| 1.255000        | 31.10         | 10.00        | 56.00         | 24.90        | N    | FLO |
| 1.794500        | 31.00         | 10.10        | 56.00         | 25.00        | N    | FLO |
| 2.288500        | 30.80         | 10.10        | 56.00         | 25.20        | N    | FLO |
| 2.847500        | 29.90         | 10.10        | 56.00         | 26.10        | N    | FLO |
| 3.790000        | 29.00         | 10.20        | 56.00         | 27.00        | N    | FLO |
| 4.914500        | 27.10         | 10.20        | 56.00         | 28.90        | N    | FLO |
| 6.546000        | 25.70         | 10.30        | 60.00         | 34.30        | N    | FLO |
| 10.192500       | 26.60         | 10.50        | 60.00         | 33.40        | L1   | FLO |
| 11.635500       | 31.60         | 10.60        | 60.00         | 28.40        | L1   | FLO |
| 13.832500       | 22.10         | 10.80        | 60.00         | 37.90        | N    | FLO |
| 29.478000       | 22.00         | 10.90        | 60.00         | 38.00        | N    | FLO |

**3.4.4 Table Final measurements 347031-1EC\_fin AV (0.15 - 30 MHz)**

| <b>Frequenz<br/>MHz</b> | <b>Pegel<br/>dB<math>\mu</math>V</b> | <b>Transd<br/>dB</b> | <b>Limit<br/>dB<math>\mu</math>V</b> | <b>Margin<br/>dB</b> | <b>Line</b> | <b>PE</b> |
|-------------------------|--------------------------------------|----------------------|--------------------------------------|----------------------|-------------|-----------|
| 0.150000                | 40.30                                | 10.00                | 56.00                                | 15.70                | N           | FLO       |
| 0.195500                | 35.20                                | 10.00                | 53.80                                | 18.60                | N           | FLO       |
| 0.247500                | 33.50                                | 10.00                | 51.80                                | 18.40                | N           | FLO       |
| 0.299500                | 31.10                                | 10.00                | 50.30                                | 19.20                | N           | FLO       |
| 0.345000                | 28.50                                | 10.00                | 49.10                                | 20.50                | N           | FLO       |
| 0.559500                | 28.00                                | 10.00                | 46.00                                | 18.00                | N           | FLO       |
| 0.579000                | 32.10                                | 10.00                | 46.00                                | 13.90                | N           | FLO       |
| 0.767500                | 24.90                                | 10.00                | 46.00                                | 21.10                | N           | FLO       |
| 1.196500                | 23.50                                | 10.00                | 46.00                                | 22.50                | N           | FLO       |
| 1.294000                | 23.00                                | 10.00                | 46.00                                | 23.00                | N           | FLO       |
| 1.807500                | 22.10                                | 10.10                | 46.00                                | 23.90                | N           | FLO       |
| 2.282000                | 21.70                                | 10.10                | 46.00                                | 24.30                | N           | FLO       |
| 3.322000                | 19.90                                | 10.20                | 46.00                                | 26.10                | N           | FLO       |
| 3.855000                | 19.60                                | 10.20                | 46.00                                | 26.40                | N           | FLO       |
| 4.882000                | 17.70                                | 10.20                | 46.00                                | 28.30                | N           | FLO       |
| 6.403000                | 16.60                                | 10.30                | 50.00                                | 33.40                | N           | FLO       |
| 7.995500                | 15.20                                | 10.40                | 50.00                                | 34.80                | N           | FLO       |
| 11.863000               | 15.60                                | 10.60                | 50.00                                | 34.40                | N           | FLO       |
| 17.466000               | 13.70                                | 11.00                | 50.00                                | 36.30                | N           | FLO       |
| 29.471500               | 14.60                                | 10.90                | 50.00                                | 35.40                | N           | FLO       |

#### 4 Test equipment used

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the test house.

| Ref No | Instrument/ ancillary         | Manufacturer                   | Type of instrument/ ancillary | Cal. Date | Cal. Due |
|--------|-------------------------------|--------------------------------|-------------------------------|-----------|----------|
| 1-0037 | Artificial mains network, 3ph | Rohde & Schwarz                | ESH2-Z5                       | 2017-09   | 2018-09  |
| 1-0040 | Biconical antenna             | Rohde & Schwarz                | HK116                         | 2015-08   | 2018-08  |
| 1-0054 | Pulse limiter                 | Rohde & Schwarz                | ESH3-Z2                       | 2017-09   | 2018-09  |
| 1-0055 | LopPer antenna                | Rohde & Schwarz                | HL223                         | 2015-08   | 2018-08  |
| 1-0069 | Measuring receiver            | Rohde & Schwarz                | ESHS 10                       | 2017-09   | 2018-09  |
| 1-0071 | EMI-Software ES-K1            | Rohde & Schwarz                | ES-K1 V 1.4                   | -         | -        |
| 1-0072 | Artificial mains network, 1ph | Rohde & Schwarz                | ESH3-Z5                       | 2017-09   | 2018-09  |
| 1-0080 | Turntable                     | H. Deisel                      | DS 420                        | -         | -        |
| 1-0200 | Trilog antenna                | Schwarzbeck                    | VULB 9163                     | 2015-12   | 2018-12  |
| 1-0361 | Semi anechoic chamber         | Reinhold & Mahla               | 3m                            | 2017-06   | 2020-06  |
| 1-0364 | Antenna cable 2               | Kabelwerk Eupen                | RF/Cord CMS / RG 214-N/7      | 2016-09   | 2019-09  |
| 1-0604 | EMI test receiver             | Rohde & Schwarz                | ESU8                          | 2017-09   | 2018-09  |
| 1-0611 | Signal analyzer               | Rohde & Schwarz                | FSV 40                        | 2017-09   | 2018-09  |
| 1-0614 | Log.-per. antenna             | Schwarzbeck<br>Mess-Elektronik | STLP 9148                     | 2016-11   | 2019-11  |
| 1-0615 | Pre amplifier                 | Schwarzbeck<br>Mess-Elektronik | BBV-9718                      | 2017-09   | 2018-09  |
| 1-0619 | Coaxial cable (to SAC)        | Huber+Suhner                   | SF106/2x11N-651/2m            | 2016-09   | 2019-09  |
| 1-0620 | Antenna cable 3               | Huber+Suhner                   | SF106/2x11N-651/3m            | 2016-09   | 2019-09  |
| 1-0624 | EMI-Software Radimation       | DARE                           | Radimation                    | -         | -        |
| 1-0870 | 10 dB Attenuator              | mini circuits                  | BW-N10W5+                     | 2016-09   | 2019-09  |
| 1-0770 | Horn antenna                  | Schwarzbeck                    | BBHA 9170                     | 2015-02   | 2018-02  |
| 1-0781 | Pre amplifier                 | Schwarzbeck                    | BBV 9721                      | 2017-09   | 2018-09  |
| 1-0782 | Antenna cable                 | Huber & Suhner                 | FB142A                        | 2015-07   | 2018-07  |
| 1-0806 | Controller                    | Innco                          | CO 3000                       | -         | -        |
| 1-0807 | Antenna mast                  | Innco                          | MA-400-XPET                   | -         | -        |
| 1-0925 | Coaxial cable                 | Harbour                        | SMA                           | 2017-09   | 2018-09  |
| 1-0927 | Coaxial cable                 | Harbour                        | SMA                           | 2017-09   | 2018-09  |



## 5 Photos of the EuT

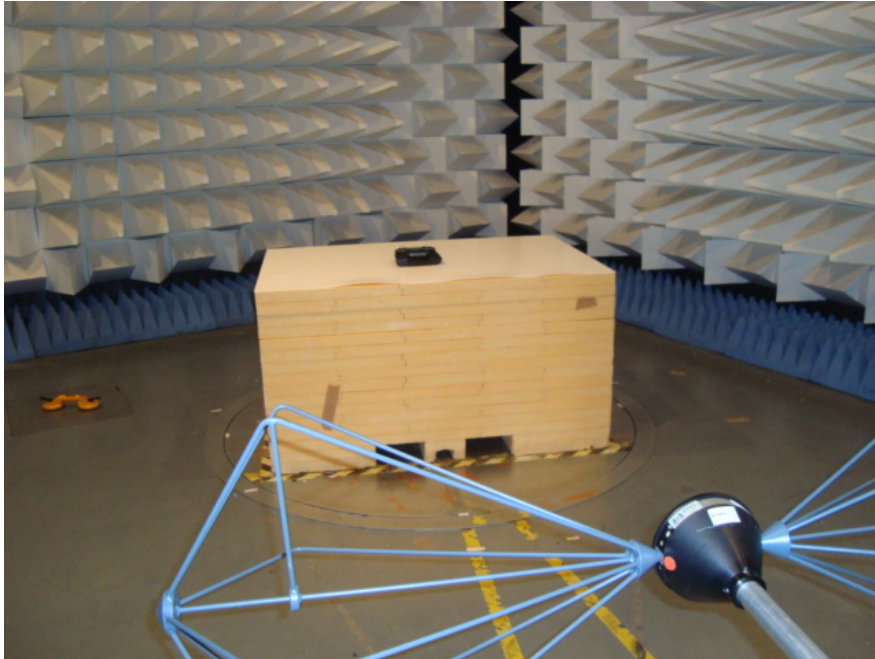


Figure 1 EUT / test set up - spurious radiated emissions ( $30 \text{ MHz} < f < 200 \text{ MHz}$ )

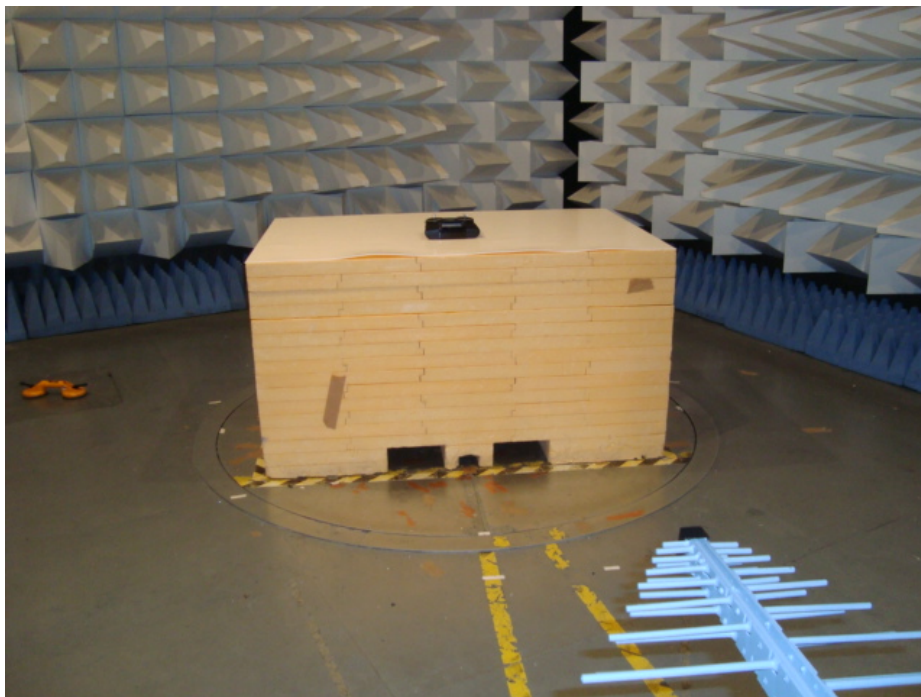
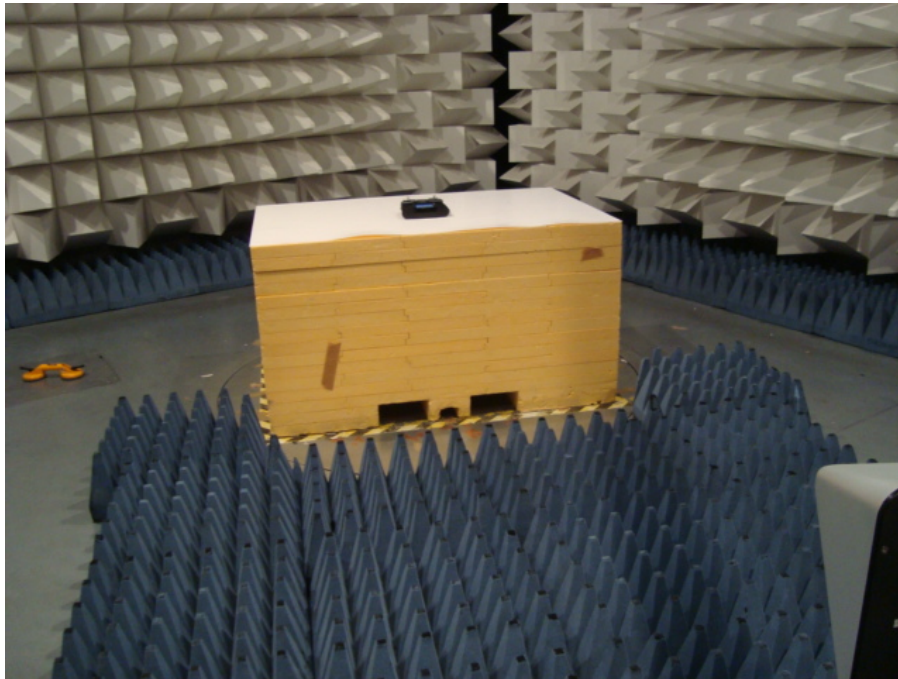


Figure 2 EUT / test set up - spurious radiated emissions ( $200 \text{ MHz} < f < 1000 \text{ MHz}$ )



**Figure 3** EUT / test set up - spurious radiated emissions (> 1 GHz)



**Figure 4** EUT / test set up - spurious conducted emissions



Figure 5 EUT / type label



Figure 6 EUT / front side





Figure 7 EUT / AC-Adaptor MPX