

# Gantner Electronic **TEST REPORT**

**SCOPE OF WORK**

RADIO TESTING FCC – GT7.2500

**REPORT NUMBER**

2232708KAU-021

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**PAGES**

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**DOCUMENT CONTROL NUMBER**

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**TYPE:** GT7.2500  
**DESCRIPTION:** Multi-functional RFID terminal  
**ARTICLE NO:** 919128  
**SERIAL NO:** 1808000002

All measurement results refer to the equipment which was tested

**MANUFACTURER:** Gantner Electronic GmbH  
**CUSTOMER NAME:** Gantner Electronic GmbH  
**ADDRESS (CUSTOMER):** Montafonerstrasse 8  
AT-6780 SCHRUNS  
AUSTRIA

**REPORT NO:** 2232708KAU-021

**TEST RESULT:** The equipment complies to 47 CFR Part 15, Subpart C, Intentional radiators, section 15.225 / RSS-210, Issue 9 and RSS-GEN, Issue 5 (Referring to the operating modes specified in this report).

**TEST LABORATORY:** Intertek Deutschland GmbH  
Innovapark 20, 87600 Kaufbeuren  
Germany

**FCC DESIGNATION NUMBER:** DE0014

**FCC TEST FIRM REGISTRATION NUMBER.** 359260

**INDUSTRY CANADA REGISTRATION.** 8882A-1; 8882A-2


**TEST ENGINEER:** U. Gronert  
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**REVIEWER:** R. Dressler  
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## Details about Accreditations/Acceptances


### EMC / Radio National

 <p>Deutsche Akkreditierungsstelle D-PL-12085-01-01</p>	<p>The Intertek Deutschland EMC-Lab is accredited by the Deutsche Akkreditierungsstelle GmbH (DAkKS)</p>
	<p>Registration Number (EMC general): <b>D-PL-12085-01-01</b></p>
	<p>Registration Number (EMC Med): <b>D-PL-12085-01-03</b></p>

### International

	<p>The Intertek Deutschland EMC-Lab is accepted to participate in the IECEE (IEC Conformity assessment for Electrotechnical Equipment and Components) CB-Scheme</p> <p>CB Test Laboratory: <b>TL118</b></p>
	<p>The Intertek Deutschland EMC-Lab is listed at the Federal Communications Commission (FCC)</p> <p>Designation Number: <b>DE0014</b></p> <p>Test Firm Registration Number: <b>359260</b></p>
 <p>BNetzA-CAB-16/21-10</p>	<p>The <i>Bundesnetzagentur</i> recognizes Intertek Deutschland GmbH as Conformity Assessment Body in the sector electromagnetic compatibility (EMC).</p>
	<p>The Intertek Deutschland EMC-Lab is listed at Industry Canada No. <b>8882A-1</b> (OATS) and <b>8882A-2</b> (3 m alternative test site)</p>

### Automotive

 <p>Anerkennungsstelle</p> <p>Anerkannt unter KBA-P 00046-03</p>	<p>The Intertek Deutschland EMC-Lab is recognized as technical service of the Kraftfahrt-Bundesamt (KBA)</p> <p>Registration Number: <b>KBA-P 00046-03</b></p>
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## SECTION 2

### MEASUREMENT AND TEST SPECIFICATION

47 CFR Part 15, Subpart C, Intentional radiators, section 15.225 /  
RSS-210, Issue 9 and RSS-GEN, Issue 4

Test methods in:

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

No additions, deviations or exclusions have been made from standards and accreditation.

The test results detailed in this report apply only to the GT7.2500 with the test setup described. Any modification such as a change, addition to or inclusion of another device into this product will require an additional evaluation.

The support equipment listed as part of the emission tests is required to properly exercise and test the device under test.

## SECTION 3 GENERAL INFORMATION

Possible test case verdicts:

Test case does not apply to the test object: N/A (Not Applicable)

Test object does meet the requirement: P (Pass)

Test object does not meet the requirements: F (Fail)

Samples arrived: 2018-08-24

Testing: 2018-08-27 to 2018-09-20

Decimal separator:  Point  Comma

Environmental conditions during testing:

Temperature: 15 °C - 35 °C

Humidity: 20 % - 60 %

Atmospheric pressure: 900 mbar - 1000 mbar

If explicitly required by a basic standard the measured climatic conditions are documented in the corresponding test section.

Test sites:

Measurement Chamber	Type of chamber	IC Site filing #
ANECHOIC CHAMBER 1	Semi-anechoic 3 m	8882A-2

**SECTION 4****SUMMARY OF TESTING****4.1 General annotation**

The tests were performed in the order of the right column in the “Test Results – Overview” table.

**4.2 Measurement uncertainty**

For each test method, an uncertainty evaluation was carried out. The results of the evaluation can be provided upon request from Intertek Deutschland GmbH.

**4.3 Document History**

REVISION	DATE	REPORT	CHANGES	AUTHOR
Initial release	2018-10-22	2232708KAU-021	Initial issue	UGR

**SECTION 5****TEST RESULTS – OVERVIEW**

<b>EMISSION</b>	<b>VERDICT</b>	<b>DATE</b>	<b>NO</b>
Field strength (13.110 MHz – 14.010 MHz)	P	2018-08-30	3
Radiated emissions (< 30 MHz)	P	2018-08-30	2
Radiated emissions (30 MHz - 1 GHz)	P	2018-08-27	1
Frequency Stability Test	P	2018-09-04	5
Occupied bandwidth test	P	2018-09-03	4
Conducted emissions (0.15 MHz - 30 MHz)	P	2018-09-20	6



**SECTION 6**

**INFORMATION ABOUT THE EUT**

**6.1 Description of the EUT**

<input checked="" type="checkbox"/> table-top EUT	<input type="checkbox"/> floor-standing EUT		
Dimensions:	Height:	Width:	Length:
	127.1 mm	151.1 mm	24.7 mm
Software version:	Radio/EMC test software for a continuous RFID field		
Description: Multi-functional RFID terminal, Ethernet, PoE, 1 relay output, 1 status input, Bluetooth			
Transmitter frequency range: 13.56 MHz			
Frequency agile or hopping:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Antenna:	<input checked="" type="checkbox"/> Internal antenna	<input type="checkbox"/> External antenna	
Antenna connector:	<input checked="" type="checkbox"/> None, internal antenna	<input type="checkbox"/> Yes, type	
Type of used TAG:	GAT Testcard Mifare		
EUT - Temperature range:	-10°C to +50°C		
Transmitter stand by mode supported:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

## 6.1.1 Photo/ Sketch of the rating plate



## 6.2 Power interface

MODE	VOLTAGE (V)	FREQUENCY (Hz)	COMMENT
1	24	DC	Power supply delivered by customer

### Power sources/associated test equipment

DEVICE	MANUFACTURER	TYPE	SN	ASSET NO.
Power Supply	DYS	DYS404-240166W	--	--

## 6.3 Configuration mode

MODE	DESCRIPTION
1	The GT7.2500 was supplied over the external power supply.

## 6.4 Operation mode

MODE	DESCRIPTION
1	Continuous RFID field with TAG in front of reader

## 6.5 Peripheral devices used for testing

DEVICE	MANUFACTURER	TYPE	FID	FCC ID
--	--	--	--	-

## 6.6 Supply and interconnecting cables used for testing

LINE	LENGTH (cm)	SHIELDING
Ethernet	290	Y
Mains cable to power supply	180	N
DC cable with ferrite core from power supply to EUT	35	N

## SECTION 7

### 7.1 Field strength 13.110 MHz – 14.010 MHz (Emission Mask)

NORMATIVE REFERENCES		RESULT
Limits according to:	FCC §15.225 (a) – (c) RSS-210, Issue 9, section B4	P
Methods of measurement according to:	ANSI C63.10, section 6.3, 6.4 RSS-Gen 6.13, 8.9	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	1
Test requirements	Frequency range	13.110 MHz – 14.010 MHz
	Measurement time	1 s
	Antenna height	1 m

#### Limits

The limits below 30 MHz are given for different measurement distances. The limits below 30 MHz are converted to 3 m by using the extrapolation factor 40 dB/decade (according to §15.31).

Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)	Field strength (dBµV/m)	Measurement distance (m)
13.110 - 13.410	106	40.5	30	80.5	3
13.410 - 13.553	334	50.5	30	90.5	3
13.553 - 13.567	15848	84.0	30	124.0	3
13.567 - 13.710	334	50.5	30	90.5	3
13.710 - 14.010	106	40.5	30	80.5	3

#### Test setup details

Compliance with the spectrum mask is tested using a spectrum analyzer with resolution bandwidth set to 10 kHz or 9 kHz CISPR. The video bandwidth shall be at least three times greater than the resolution bandwidth.

The test was carried out automatically by the test receiver.

The EUT is a table-top EUT and was standing on a table made of Styrodur with a Pertinax plate on top and the dimensions 1.6 m x 1.0 m x 0.8 m (Length x Width x Height).

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

#### Test equipment

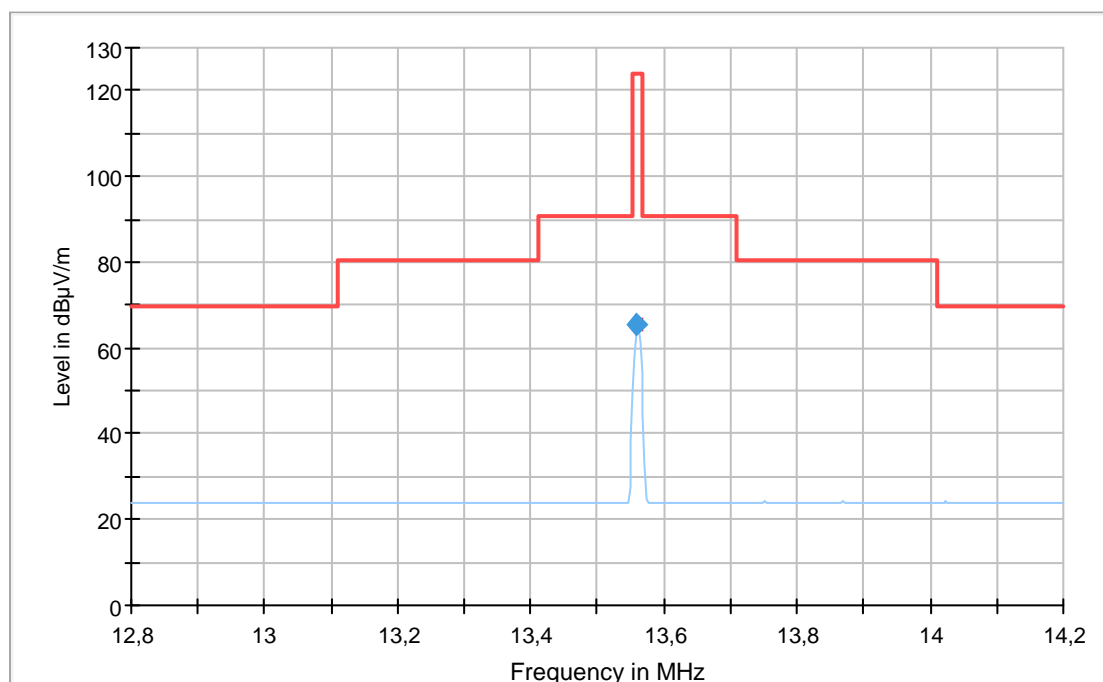
DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Semi-Anechoic chamber	Siepel	REF W460SLB	-	PM KF 1150-01	2016-12 (3 years)
Turntable	Inn-Co	-	-	PM KF 2949-04	-
Receiver 9 kHz- 7 GHz	Rohde & Schwarz	ESR7	101757	PM KF 3371	2018-04 (1 year)
Loop antenna 9 kHz- 30 MHz	Rohde & Schwarz	HFH2-Z2	881058/48	PM KF 1401	2017-10 (2 years)
Test software	Rohde & Schwarz	EMC 32 V.10.01.00	-	PM KF 2983-2	-

## Measurement results – Field strength 13.110 MHz – 14.010 MHz (Emission Mask):

# Intertek Test Report

## Common Information

EUT: GT7.2500  
 Test Verdict: Passed  
 Test Description: Spurious emissions, 9 kHz - 30 MHz  
 Operating Conditions: 120 V, 60 Hz over GAT NET.Power Supply 692833  
 Operator Name: UGR  
 Project Number: 32708  
 Date: 2018-08-30  
 Comment: Continuous RFID field with TAG in front



- Preview Result 1-QPK [Preview Result 1.Result:1]
- \* Critical\_Freqs AVG [Critical\_Freqs.Result:5]
- \* Critical\_Freqs QPK [Critical\_Freqs.Result:4]
- FCC 15\_225\_9kHz\_to\_30MHz\_d=3m [.\zF radiated\FCC Part 15C]
- ◆ Final\_Result QPK [Final\_Result.Result:4]
- ◆ Final\_Result AVG [Final\_Result.Result:5]

## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
13.560000	65.61	---	124.00	58.39	---	---	H	176.0	19.7

(continuation of the "Final\_Result" table from column 15 ...)

Frequency (MHz)	Comment
13.560000	Peak: 65,61 dBµV

## 7.2 Radiated emissions < 30 MHz

NORMATIVE REFERENCES		RESULT
Limits according to:	FCC §15.225 (d), §15.209 RSS-210, Issue 9, section B4	P
Methods of measurement according to:	ANSI C63.10, section 6.3, 6.4 RSS-Gen 6.13, 8.9	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	1
Test requirements	Frequency range	9 kHz - 30 MHz
	Antenna height	1 m

### Limits

The limits below 30 MHz are given for different measurement distances. The limits below 30 MHz are converted to 3 m by using the extrapolation factor 40 dB/decade (according to §15.31).

Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	67.6 - 20 · log(F(kHz))	300
0.490 - 1.705	24000/F(kHz)	87.6 - 20 · log(F(kHz))	30
1.705 - 13.110	30	29.5	30
14.010 - 30.000	30	29.5	30

Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.

### Test setup details

Compliance with the spectrum mask is tested using a spectrum analyzer with resolution bandwidth set to 10 kHz or 9 kHz CISPR. The video bandwidth shall be at least three times greater than the resolution bandwidth.

The test was carried out automatically by the test receiver.

The EUT is a table-top EUT and was standing on a table made of Styrodur with a Pertinax plate on top and the dimensions 1.6 m x 1.0 m x 0.8 m (Length x Width x Height).

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

### Test equipment

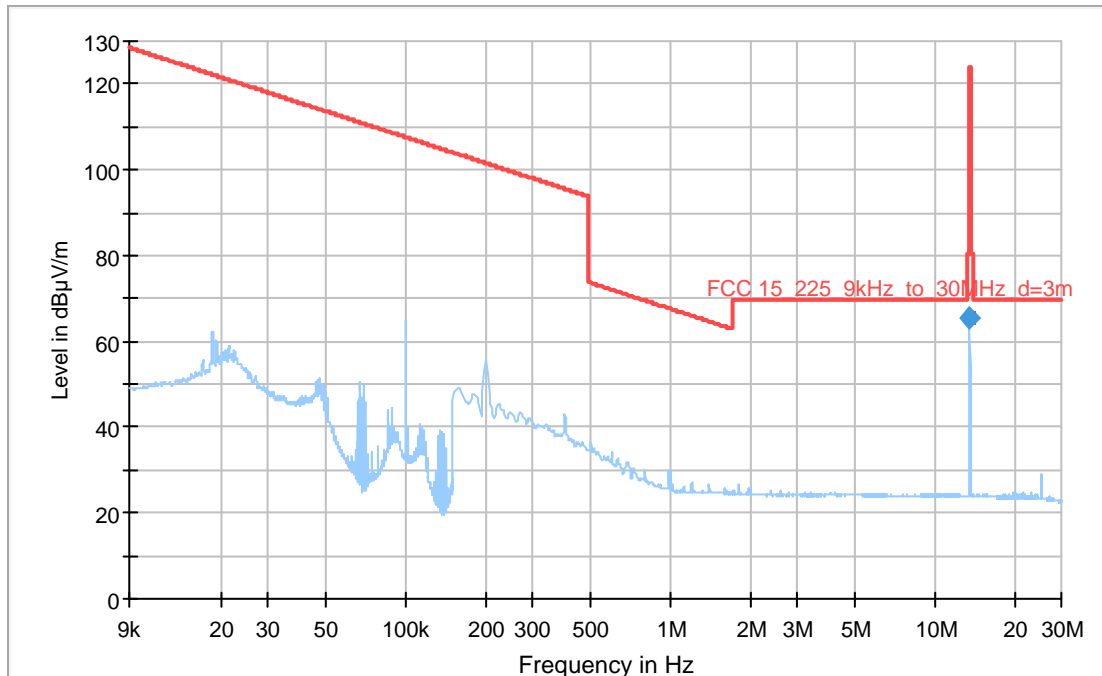
DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Semi-Anechoic chamber	Siepel	REF W460SLB	-	PM KF 1150-01	2016-12 (3 years)
Turntable	Inn-Co	-	-	PM KF 2949-04	-
Receiver 9 kHz- 7 GHz	Rohde & Schwarz	ESR7	101757	PM KF 3371	2018-04 (1 year)
Loop antenna 9 kHz- 30 MHz	Rohde & Schwarz	HFH2-Z2	881058/48	PM KF 1401	2017-10 (2 years)
Test software	Rohde & Schwarz	EMC 32 V.10.01.00	-	PM KF 2983-2	-

## Measurement results – Radiated emissions < 30 MHz:

# Intertek Test Report

## Common Information

EUT: GT7.2500  
 Test Verdict: Passed  
 Test Description: Spurious emissions, 9 kHz - 30 MHz  
 Operating Conditions: 120 V, 60 Hz over GAT NET.Power Supply 692833  
 Operator Name: UGR  
 Project Number: 32708  
 Date: 2018-08-30  
 Comment: Continuous RFID field with TAG in front



- Preview Result 1-QPK [Preview Result 1.Result:1]
- \* Critical\_Freqs AVG [Critical\_Freqs.Result:5]
- \* Critical\_Freqs QPK [Critical\_Freqs.Result:4]
- FCC 15\_225\_9kHz\_to\_30MHz\_d=3m [.\zF radiated\FCC Part 15C]
- ◆ Final\_Result QPK [Final\_Result.Result:4]
- ◆ Final\_Result AVG [Final\_Result.Result:5]

## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB)
13.560000	65.61	---	124.00	58.39	---	---	H	176.0	19.7

(continuation of the "Final\_Result" table from column 15 ...)

Frequency (MHz)	Comment
13.560000	Peak: 65,61 dBµV

## Anechoic chamber

### Test procedure

The test site is an anechoic chamber suitable for radiated emission measurements in the frequency range of 9 kHz – 30 MHz It includes automatic turntable of radius 2 m. It enables manual and fully automatic measurements.

To find the highest level of radiation

- the height of the antenna is 1m with antenna in horizontal and vertical polarization;
- the turntable is rotated in range from 0° to 360°.

The system was configured for testing in a typical worst case fashion (as a customer may use it). All interface cables were moved to determine the position which resulted in the highest emission levels.

### Correction factors

The field strength is calculated by adding the antenna factor and cable attenuation.

The calculations are performed automatically by the measurement software EMC 32.

As example consider the following input values and result:

FREQUENCY (MHZ)	RECEIVER READING U (dBμV)	ANTENNA FACTOR AF (dB/m)	CABLE ATTENUATION A (dB)	CORRECTION ANTENNA + CABLE (dB)	RADIATED FIELD STRENGTH E (dBμV/m)
30.0	20	20.6	0.8	21.4	41.4

$$E = U + AF + A$$

### 7.3 Radiated emissions 30 MHz to 1 GHz

NORMATIVE REFERENCES		RESULT
Limits according to:	FCC §15.225 (d), §15.209 RSS-210, Issue 9, section B4	P
Methods of measurement according to:	ANSI C63.10, section 6.3, 6.5 RSS-Gen 6.13, 8.9	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	2
Test requirements	Frequency range	30 MHz - 1 GHz
	Antenna height	1 m

#### Limits

Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
30 – 88	100	40.0	3
88 – 216	150	43.5	3
216 – 960	200	46.0	3
Above 960	500	54.0	3

#### Test setup details

The EUT is a table-top EUT and was standing on a table made of Styrodur with a Pertinax plate on top and the dimensions 1.6 m x 1.0 m x 0.8 m (Length x Width x Height).

Overview sweeps performed with peak detectors and final measurement with quasi-peak detectors. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

#### Test equipment

DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Semi-Anechoic chamber	Siepel	REF W460SLB	-	PM KF 1150-01	2016-12 (3 years)
Turntable	Inn-Co	-	-	PM KF 2949-04	-
Receiver 9 kHz- 7 GHz	Rohde & Schwarz	ESR7	101757	PM KF 3371	2018-04 (1 year)
Antenna 30 MHz - 3GHz	Rohde & Schwarz	HL 562	100354	PM KF 1123	2018-03 (2 years)
Test software	Rohde & Schwarz	EMC 32 V.10.01.00	-	PM KF 2983-2	-

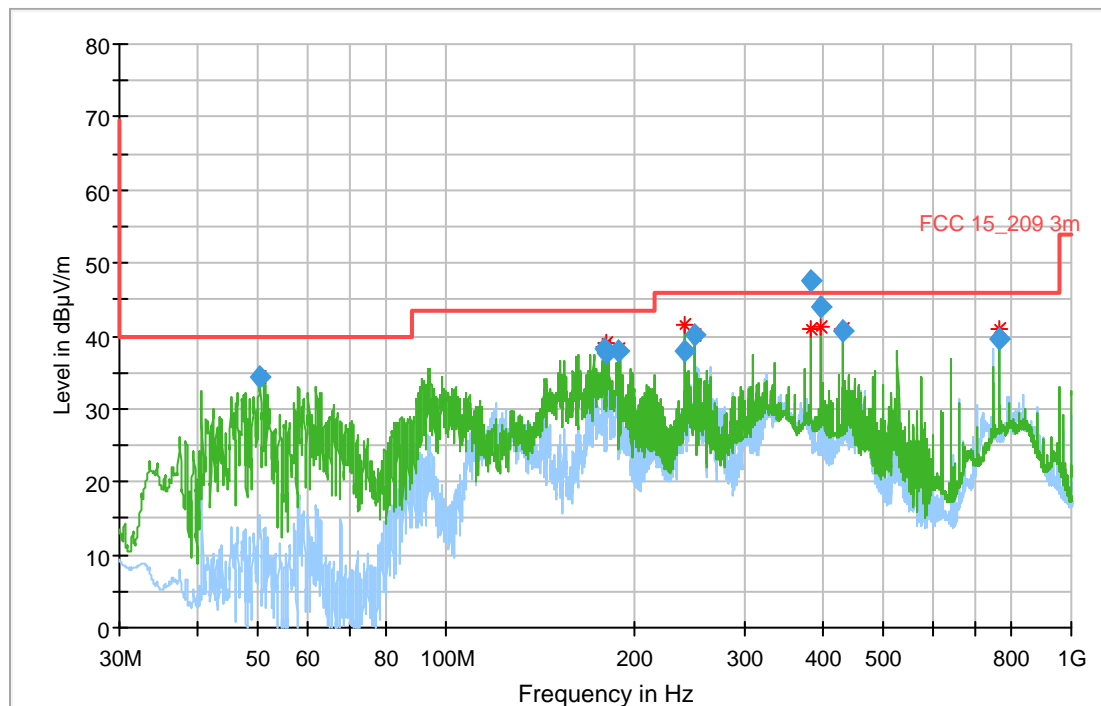


**Measurement results – Radiated emissions 30 MHz to 1 GHz:**

# Radiated Emissions Test Report

## Common Information

EUT:	GT7.2500
Test Verdict:	pass
Test Description:	Radiated emission 30 - 1000 MHz
Operating Conditions:	RFID on (with Tag), Bluetooth on
Operator Name:	UGR
Project Number:	32708
Date:	2018-08-27
Comment:	



- Preview Result 1H-QPK [Preview Result 1H.Result:2]
- Preview Result 1V-QPK [Preview Result 1V.Result:2]
- \* Critical\_Freqs QPK [Critical\_Freqs.Result:4]
- FCC 15\_209 3m [..\EMI radiated\FCC Part 15C]
- ◆ Final\_Result QPK [Final\_Result.Result:4]

## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
50.430000	34.43	---	---	1000.0	120.000	99.0	V	110.0	7.6	Source other than RFID-module
179.010000	38.17	---	---	1000.0	120.000	99.0	V	22.0	10.8	Source other than RFID-module
180.990000	37.62	---	---	1000.0	120.000	99.0	V	-22.0	10.3	Source other than RFID-module
188.010000	37.95	---	---	1000.0	120.000	99.0	V	-11.0	9.7	Source other than RFID-module
240.000000	37.91	---	---	1000.0	120.000	99.0	V	21.0	11.5	Source other than RFID-module
249.990000	40.01	---	---	1000.0	120.000	99.0	V	21.0	11.8	Source other than RFID-module
384.000000	47.44	---	---	1000.0	120.000	142.0	V	21.0	15.2	Source other than RF-modules
397.650000	44.00	---	---	1000.0	120.000	140.0	V	21.0	15.6	Source other than RFID-module
432.000000	40.70	---	---	1000.0	120.000	136.0	V	-19.0	16.2	Source other than RFID-module
768.000000	39.50	---	---	1000.0	120.000	99.0	V	276.0	21.5	Source other than RFID-module

## Anechoic chamber

### Test procedure

The test site is an anechoic chamber suitable for radiated emission measurements in the frequency range of 30 MHz – 18 GHz (26 GHz). It includes automatic antenna mast of height 4 m and turntable of radius 2 m. It enables both manual and fully automatic measurements. To find the highest level of radiation

- the height of the antenna is scanned in range 1m to 4 m with antenna in horizontal and vertical polarization;
- the turntable is rotated in range from 0° to 360°.

The system was configured for testing in a typical worst case fashion (as a customer may use it). All interface cables were moved to determine the position which resulted in the highest emission levels.

### Correction factors

The field strength is calculated by adding the antenna factor and cable attenuation. The calculations are performed automatically by the measurement software EMC 32. As example consider the following input values and result:

FREQUENCY (MHZ)	RECEIVER READING U (dBµV)	ANTENNA FACTOR AF (dB/m)	CABLE ATTENUATION A (dB)	CORRECTION ANTENNA + CABLE (dB)	RADIATED FIELD STRENGTH E (dBµV/m)
30.0	20	20.6	0.8	21.4	41.4

$$E = U + AF + A$$

## 7.4 Frequency stability measurement

NORMATIVE REFERENCES		RESULT
Limits according to:	FCC §15.225 (e) RSS-210, Issue 9, section B6 RSS-Gen Issue 4, section 6.11	P
Methods of measurement according to:	ANSI C63.10, section 9.14	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	1

### Limits

Limit:	The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ ( $\pm 100$ ppm) of the carrier frequency under nominal conditions.
EUT temperature range:	-15°C to +55°C
Test temperature range:	-30°C to +55°C
Nominal battery voltage:	3.6 V DC
Lower voltage limit (85%):	3.06 V DC

### Test equipment

DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Temperature chamber	Heraeus-Vötsch	HT4010	45021	PM KF 1402	2018-02 (1 year)
Spectrum analyser	Rohde & Schwarz	FSV40	837356/012	PM KF 2783	2018-09 (1 year)
Loop antenna	Rohde & Schwarz	HZ-10	100055	PM KF 0965	2017-04 (3 year)

### Measurement results – Frequency stability measurement:

Temperature °C	Carrier MHz	Upper limit:	13.561356 MHz
		Lower limit:	13.558644 MHz
		Measured value under temperature influence:	
+50	13.560	13.56062950	
+40	13.560	13.56060780	
+30	13.560	13.56060780	
+20	13.560	13.56062950	
+10	13.560	13.56065850	
0	13.560	13.56068740	
-10	13.560	13.56070910	
-20	13.560	13.56073080	

### Comment

A variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20°C had no influence on the frequency of the carrier.

## 7.5 Occupied bandwidth

NORMATIVE REFERENCES		RESULT
Limits according to:	RSS-Gen, Issue 4, 6.6	P
Methods of measurement according to:	RSS-Gen, Issue 4, 6.6	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	1

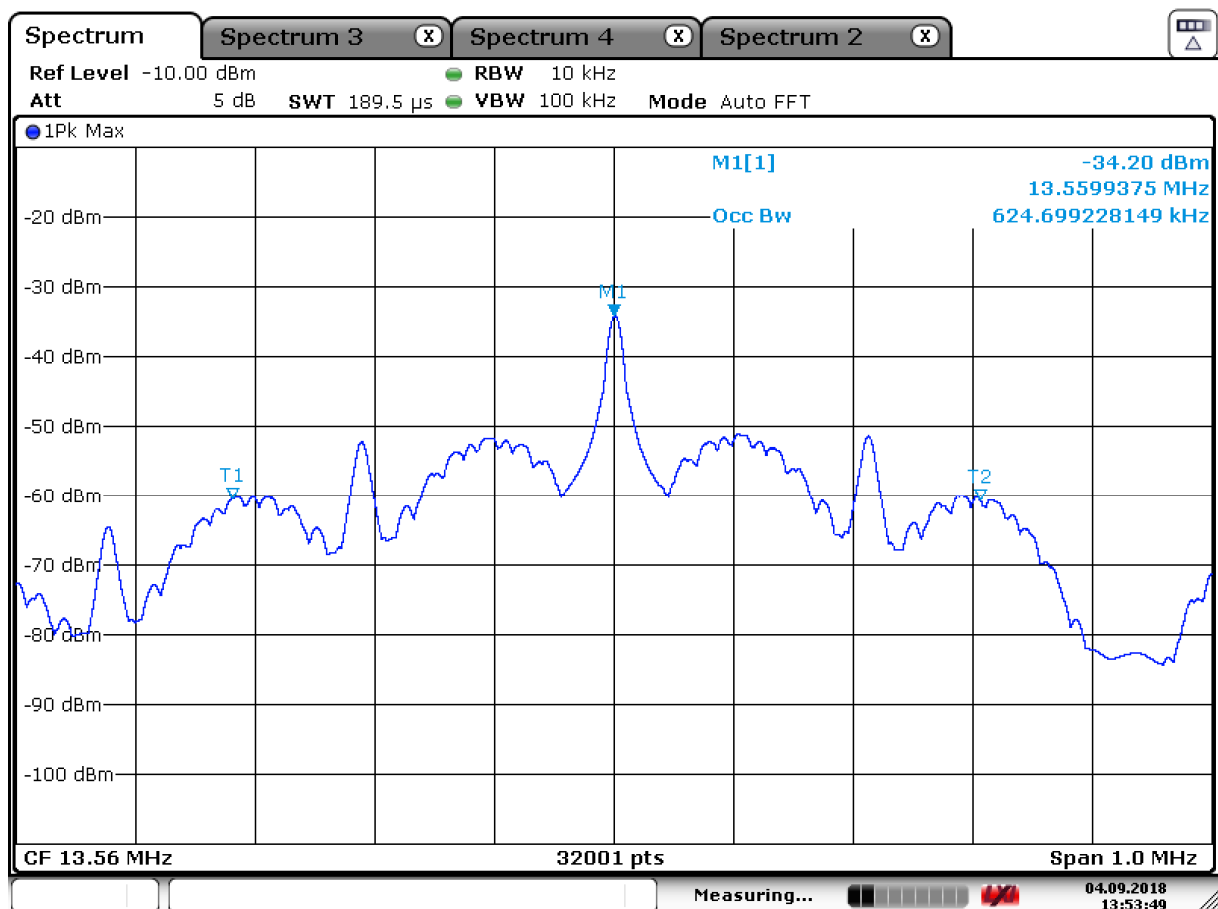
### Test equipment

DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Spectrum analyser	Rohde & Schwarz	FSV40	837356/012	PM KF 2783	2018-09 (1 year)
Loop antenna	Rohde & Schwarz	HZ-10	100055	PM KF 0965	2017-04 (3 year)

### Comment

The 99% occupied bandwidth is 624.7 kHz.

### Measurement results – 99% occupied bandwidth:



Date: 4.SEP.2018 13:53:49

## 7.6 Conducted emissions

NORMATIVE REFERENCES		RESULT
Limits according to:	FCC, Part 15 C	P
Methods of measurement according to:	ANSI C63.10	
Equipment mode	Power interface	1
	EUT configuration mode	1
	Operation mode	1
Test requirements	Frequency range	150 kHz - 30 MHz

### Test equipment

DESCRIPTION	MANUFACTURER	TYPE	SN	ASSET NO.	CALIBRATION
Shielded cabin	ETS LINDGREN	RFSD 100	3598	PM KF 2955-2	-
Pulse Limiter 10 dB 9 kHz - 200 MHz	Schwarzbeck	VTSD 9561-F N	9561-F N242	PM KF 3059	2018-02 (1 year)
Receiver 9 kHz - 7 GHz	Rohde & Schwarz	ESR7	101757	PM KF 3371	2018-04 (1 year)
V-Artificial mains- network, 2 Line	Rohde & Schwarz	ESH3-Z5	863367/018	PM KF 0142	2017-10 (2 years)
Test software	Rohde & Schwarz	EMC 32 V.8.54	-	PM KF 2983	-

### Comment

In the following diagram, the N and L line are merged.

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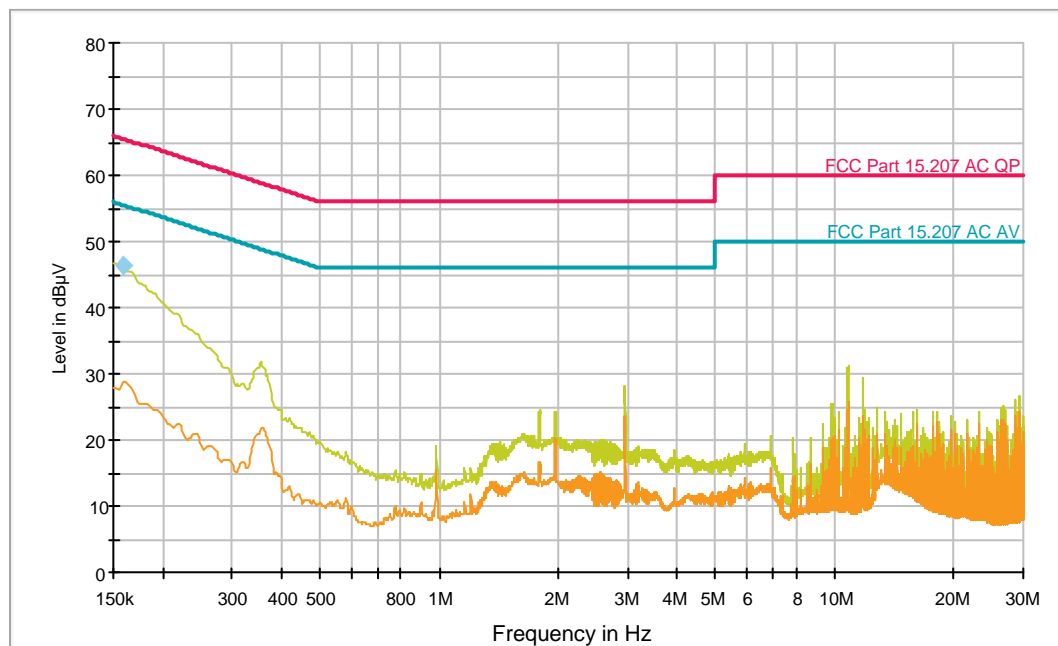
## Measurement results – Conducted emissions:

# Intertek Test Report

## Common Information

EUT: GT7.2500  
 Project No.: 32708  
 Test description: Conducted Emissions  
 Test standard: FCC Part 15.207  
 Tested port: Mains  
 Test verdict: Passed  
 Operating conditions: 120 V, 60 Hz / RFID pulsed field  
 Without antenna (load 22 Ohm)  
 Operator name: UGR  
 Date of testing: 20.09.2018

EN-CE-R32-LN01



- FCC Part 15.207 AC QP [..\EMI conducted\FCC Part 15 Subpart C\]
- FCC Part 15.207 AC AV [..\EMI conducted\FCC Part 15 Subpart C\]
- Preview Result 1-QPK [Preview Result 1.Result:1]
- Preview Result 2-CAV [Preview Result 2.Result:2]
- ◆ Final Result 1-QPK [Final Result 1.Result:1]

## Final Result 1

Frequency (MHz)	QuasiPeak-ClearWrite (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.159000	46.4	GN	N	10.3	19.1	65.5	

**End of test report**