

FCC ID:KPU41777

EMI -- T E S T R E P O R T

Test Report No. :

T32177-00-00HU

12. December 2007
Date of issue

Type / Model Name : 41777

Product Description : Transmitter

Applicant : Visteon Japan, Ltd.

Address : Hiroshima Sangyo Bunka Center 9F

16-35, Hijiyama-honmachi, Minami-ku, Hiroshima

732-0816, Japan

Manufacturer : Yang Feng Visteon Automotive Electronics Co. Ltd.

Address : 300 Minolta Road, Saonjiang country Shanghai

China 201600

Licence holder : Visteon Japan, Ltd.

Address : Hiroshima Sangyo Bunka Center 9F

16-35, Hijiyama-honmachi, Minami-ku, Hiroshima

732-0816, Japan

Test Result according to the
standards listed in clause 1 test
standards:

POSITIVE



The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test
results without the written permission of the test
laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15 Subpart C - Intentional Radiators (May, 2007)

Part 15, Subpart C, Section 15.231	Periodic operation in the band 40.66-40.70 MHz and above 70 MHz §15.231(a) Signal deactivation §15.231(b) Radiated emissions, Fundamental & Harmonics §15.231(c) Emission Bandwidth
Part 15, Subpart C, Section 15.35(c)	Correction for Pulse Operation (Duty Cycle)
Part 15, Subpart C, Section 15.207(a)	AC Line conducted emissions
Part 15, Subpart C, Section 15.209(a)	Radiated emissions, general requirements

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2 SUMMARY

GENERAL REMARKS:

None

FINAL ASSESSMENT:

The equipment under test **fulfills** the EMI requirements cited in clause 1 test standards.

Date of receipt of test sample : acc. to storage records

Testing commenced on : 04. December 2007

Testing concluded on : 12. December 2007

Checked by:

Tested by:

Klaus Gegenfurtner
Dipl.-Ing.(FH)
Manager: Radio Group

Markus Huber

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3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EuT

External Photo
Top view

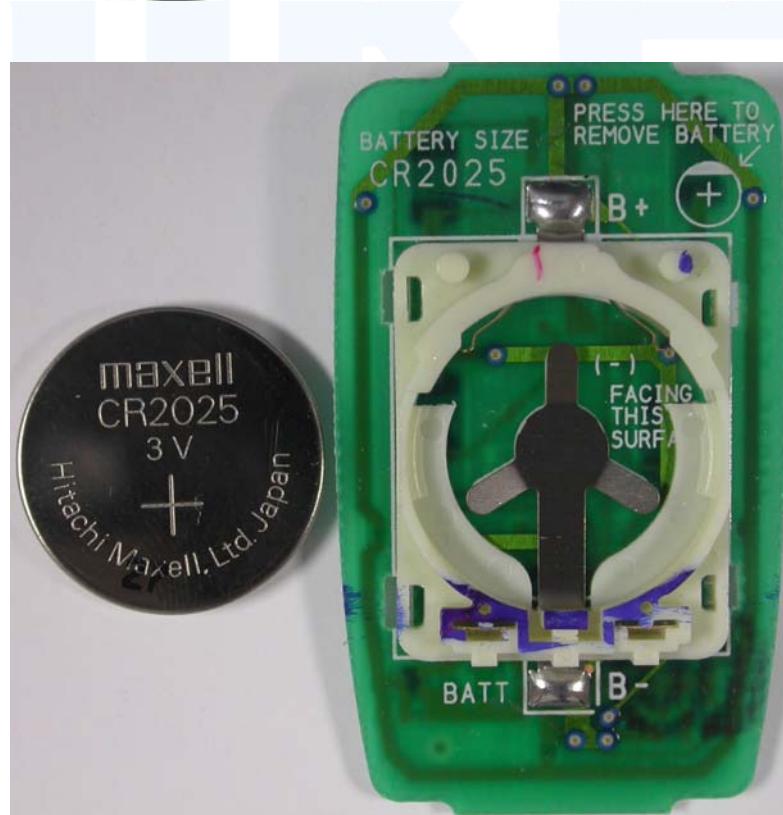


External Photo
Rear view



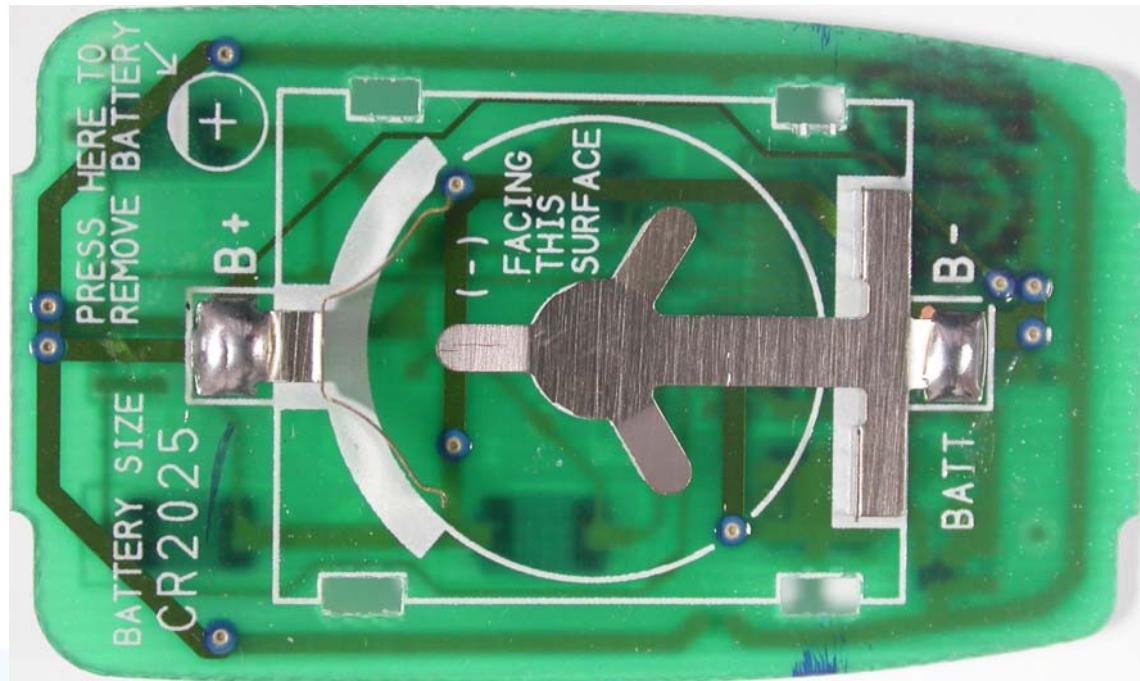
FCC ID:KPU41777

Internal Photo
Open cover

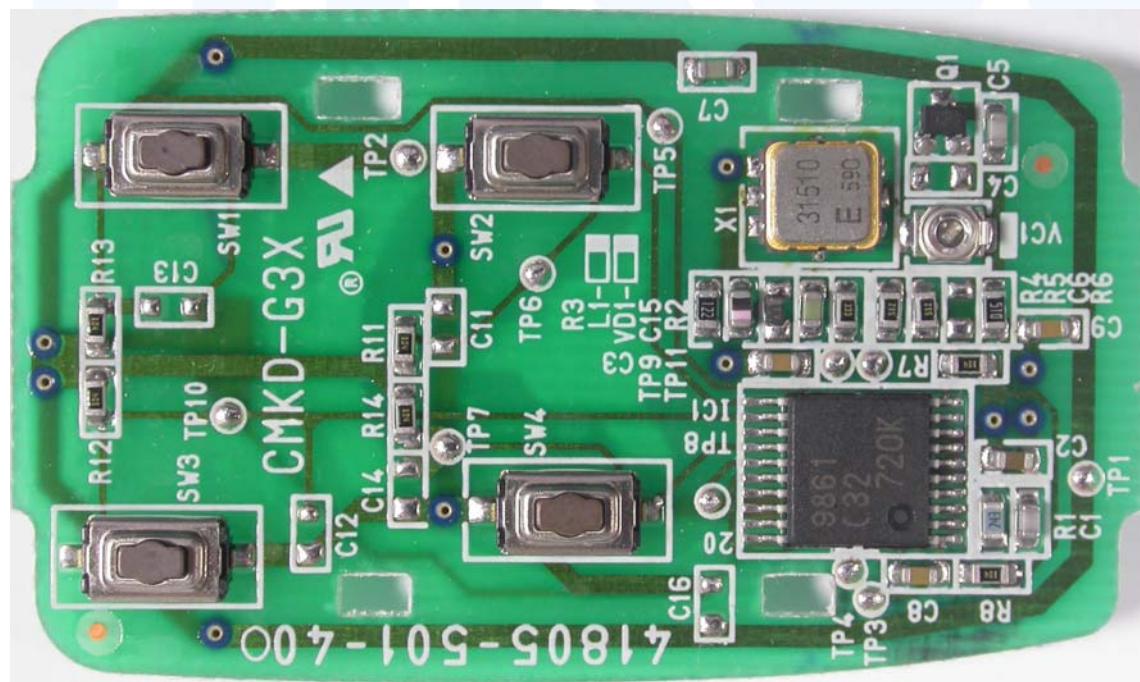


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Internal Photo
Rear view of PCB



Internal Photo
Front view of PCB



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3.2 Power supply system utilised

Power supply voltage : 3 V / DC

3.3 Short description of the Equipment under Test (EuT)

The EuT is a wireless handheld transmitter of a keyless entry system for vehicles.

Number of tested samples: 1

Serial number: see Photo documentation of the EuT under Point 3 / Equipment Under Test

EuT operation mode:

The equipment under test was operated during the measurement under the following conditions:

- Tx mode at 315 MHz

-
-
-

EuT configuration:

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurements:

- Model : _____
- Model : _____

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

mikes-testingpartners gmbh
Ohmstrasse 2-4
94342 Strasskirchen
Germany

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 86-106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 /11.2003 „Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements“ and is documented in the quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

4.4 Measurement Protocol

4.4.1 GENERAL INFORMATION

4.4.1.1 Test Methodology

Conducted and radiated disturbance testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22, European Standard EN 55022 as shown under section 1 of this report.

In compliance with 47 CFR Part 15 Subpart A Section 15.38 testing for FCC compliance may be done following the ANSI C63.4-2003 procedures and using the CISPR 22 Limits.

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4.4.1.2 Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral using the appropriate impedance characteristic or left unterminated. Where appropriate, cables are manually manipulated with respect to each other thus obtaining maximum disturbances from the unit.

4.4.2 **DETAILS OF TEST PROCEDURES**

General Standard Information

The test methods used comply with CISPR Publication 22, EN 55022 - "Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement" and with ANSI C63.4-2003 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

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5 TEST CONDITIONS AND RESULTS

5.1 Conducted emissions

For test instruments and accessories used see section 6 Part A 4.

5.1.1 Description of the test location

Test location:

5.1.2 Photo documentation of the test set-up

5.1.3 Description of Measurement

The final level, expressed in dB μ V, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC Limit or to the CISPR limit.

To convert between dB μ V and μ V, the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EuT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection and a Line Impedance Stabilization Network (LISN) with 50 Ω /50 μ H (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. If the minimum limit margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

5.1.4 Test result

Frequency range:

Min. limit margin

The requirements are

Remarks: The measurement is not applicable because the EuT is battery powered.

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5.2 Radiated power of the fundamental wave

For test instruments and accessories used see section 6 Part **CPR 2**.

5.2.1 Description of the test location

Test location: OATS1

Test distance: 3 metres

5.2.2 Photo documentation of the test set-up



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5.2.3 Description of Measurement

The radiated power of the fundamental wave from the EUT is measured in the frequency range of 30 to 1000 MHz using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003.

The Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarization's and the EuT are rotated 360 degrees.

The final level, expressed in dB μ V/m, is arrived by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page.

The resolution bandwidth during the measurement is as follows:
30 MHz – 1000 MHz: ResBW: 120 kHz

5.2.4 Test result

Frequency [MHz]	L: QP [dB μ V]	Bandwidth [kHz]	Correct. [dB]	L: QP [dB μ V/m]	Limit [dB μ V/m]	Delta [dB]
315.0	50.0	120	16.3	66.3	75.6	9.3

Limit according to FCC Subpart 15.231(b)

Frequency (MHz)	Field strength of fundamental		Field strength of spurious emissions	
	(μ V/m)	dB (μ V/m)	(μ V/m)	dB (μ V/m)
40,66 – 40,70	2250	67	225	47
70 - 130	1250	62	125	42
130 - 174	1250 to 3750*	62 to 71,4*	125 to 375*	42 to 51,4*
174 - 260	3750	71,4	375	51,4
260 - 470	3750 to 12500*	71,4 to 81,9*	375 to 1250*	51,4 to 61,9*
Above 470	12500	81,9	1250	61,9

*Linear interpolations

The requirements are **FULFILLED**.

Remarks:

5.3 Spurious emissions (Magnetic field) 9 kHz – 30 MHz

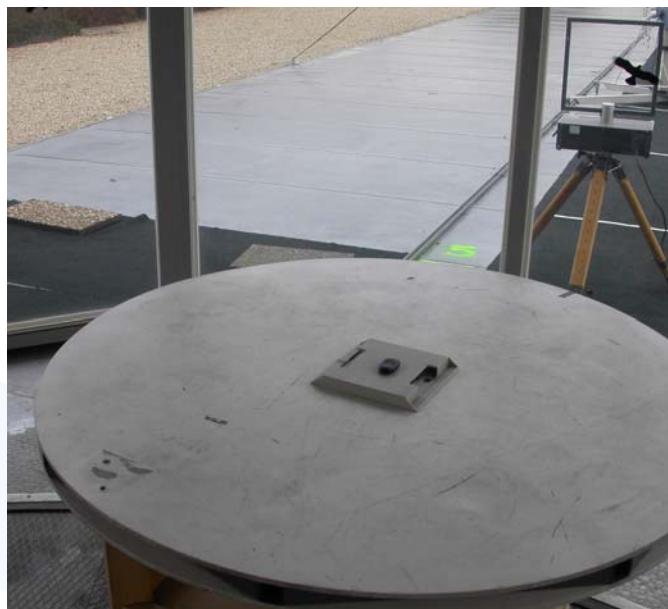
For test instruments and accessories used see section 6 Part **SER 1**.

5.3.1 Description of the test location

Test location: OATS1

Test distance: 3 metres

5.3.2 Photo documentation of the test set-up



5.3.3 Description of Measurement

The spurious emissions from the EuT will be measured on an open area test site in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. In the case where larger measuring distances are required the results will be extrapolated based on the values measured on the closer distances according to Section 15.31 (f) (2) [2]. The final measurement will be performed with an EMI Receiver set to Quasi Peak detector except for the frequency bands 9 kHz to 90 kHz and 110 to 490 kHz where an average detector will be used according to Section 15.209 (d) [2].

The final level, expressed in $\text{dB}\mu\text{V}/\text{m}$, is arrived at by taking the reading from the EMI receiver (Level $\text{dB}\mu\text{V}$) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz – 150 kHz: ResBW: 200 Hz

150 kHz – 30 MHz: ResBW: 9 kHz

Example:

Frequency (MHz)	Level ($\text{dB}\mu\text{V}$)	+	Factor (dB)	=	Level ($\text{dB}\mu\text{V}/\text{m}$)	Limit ($\text{dB}\mu\text{V}/\text{m}$)	=	Delta (dB)
1.705	5	+	20	=	25	30	=	5

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5.3.4 Test result

Measurement distance: 3 m

Frequency [MHz]	L: PK [dB μ V]	L: AV [dB μ V]	L: QP [dB μ V]	Correct. [dB]	L: PK [dB μ V/m]	L: AV [dB μ V/m]	L: QP [dB μ V/m]	Limit [dB μ V/m]	Delta [dB]
0.009 – 0.15				20.0					
0.15 – 30.0				20.0					

Limit according to FCC Part 15 Subpart 15.209(a)

Frequency (MHz)	Field strength of spurious emissions		Measurement distance (meters)
	(μ V/m)	dB (μ V/m)	
0.009-0.490	2400/F(kHz)	--	300
0.490-1.705	24000/F (kHz)	--	30
1.705-30.0	30	29.5	30

The requirements are **FULFILLED**.

Remarks: All unwanted emissions in the frequency range from 9 kHz to 30 MHz

are below < -10.5 dB μ V/m.

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5.4 Radiated emissions (electric field) 30 MHz – 18 GHz

For test instruments and accessories used see section 6 Part **SER 2, SER 3**.

5.4.1 Description of the test location

Test location: OATS1
Test location: Anechoic Chamber A2

Test distance: 3 metres

5.4.2 Photo documentation of the test set-up



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5.4.3 Description of Measurement

Radiated spurious emissions from the EuT are measured in the frequency range of 30 MHz to 1000 MHz using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003. The Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarization's and the EuT are rotated 360 degrees.

The final level, expressed in dB μ V/m, is arrived by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page.

The radiated emissions from the EuT are measured in the frequency range of 1 GHz to maximum frequency as specified in section 15.33, using a tuned receiver (Spectrum Analyser) and appropriate linearly polarized antennas. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. The set up of the Equipment under test will be in accordance to ANSI C63.4-2003.

The Interface cables that are closer than 40 centimetres to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimetres from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3 horizontally from the EuT.

Measurement are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwith set to 1 MHz. All tests are performed at a test-distance of 3 meters. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration procedure the highest emission relative the limit and therefore shall be used for final testing. During the tests the EUT is rotated all around to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions. When the EuT is larger than the beam width of the measuring antenna, the measurement antenna will be moved over the surfaces for the four sides or the test distance will be reduced to demonstrate that emissions were at maximum at the limit distance.

The resolution bandwidth during the measurement is as follows:

30 MHz – 1000 MHz:	ResBW: 120 kHz
1000 MHz – 18000 MHz	ResBW: 1 MHz

5.4.4 Test result

Test result in detail:(<1GHz)

Frequency [MHz]	L: QP [dB μ V]	Bandwidth [kHz]	Correct. [dB]	L: QP [dB μ V/m]	Limit [dB μ V/m]	Delta [dB]
630.0	12.1	120	23.4	35.5	55.6	20.1

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Test result in detail:(>1GHz)

Frequency [MHz]	Level PK [dB μ V]	Level AV [dB μ V]	Band-width [kHz]	Correct. Factor [dB]	Level PK [dB μ V/m]	Level AV [dB μ V/m]	Limit AV [dB μ V/m]	Delta [dB]
1258.0	44.9	39.1	1000	-14.6	30.3	24.5	55.6	31.1
1576.0	51.6	43.0	1000	-14.1	37.5	28.8	54.0	25.2
1894.0	55.1	42.6	1000	-11.8	43.3	30.8	55.6	24.8
2206.0	57.2	49.1	1000	-10.4	46.8	38.7	54.0	15.3
2518.0	52.4	40.3	1000	-9.7	42.7	30.6	55.6	23.9
2836.0	51.5	41.6	1000	-9.0	42.1	32.6	54.0	21.4

Limit according to FCC Subpart 15.231(b) Subpart 15.209(a) / Subpart 15.205(a)

Frequency (MHz)	Field strength of fundamental		Field strength of spurious emissions	
	(μ V/m)	dB (μ V/m)	(μ V/m)	dB (μ V/m)
40,66 – 40,70	2250	67	225	47
70 - 130	1250	62	125	42
130 - 174	1250 to 3750*	62 to 71,4*	125 to 375*	42 to 51,4*
174 - 260	3750	71,4	375	51,4
260 - 470	3750 to 12500*	71,4 to 81,9*	375 to 1250*	51,4 to 61,9*
Above 470	12500	81,9	1250	61,9

*Linear interpolations

Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in the table above or to the general limits shown in the table below according to § 15.209, whichever limit permits a higher field strength.

Frequency [MHz]	15.209 Limits [μ V/m]	15.209 Limits [dB μ V/m]
30-88	100	40
88-216	150	43,5
216-960	200	46
Above 960	500	54

Besides is a limit according to §15.35(b) on the radio frequency emissions, as measured with a peak detector, corresponding to 20 dB above the maximum permitted average limits.

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Restricted bands of operation:

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209

MHz	MHz	GHz
25.5 – 25.67	960 – 1240	4.5 – 5.15
37.5 – 38.25	1300 – 1427	5.35 – 5.46
73 – 74.6	1435 – 1626.5	7.25 – 7.75
74.8 – 75.2	1645.5 – 1646.5	8.025 – 8.5
108 – 121.94	1660 – 1710	9.0 – 9.2
123 – 138	1718.8 – 1722.2	9.3 – 9.5
149.9 – 150.05	2200 – 2300	10.6 – 12.7
156.52475 – 156.52525	2310 – 2390	13.25 – 13.4
156.7 – 156.9	2483.5 – 2500	14.47 – 14.5
162.0125 – 167.17	2655 – 2900	15.35 – 16.2
167.72 – 173.2	3260 – 3267	17.7 – 21.4
240 – 285	3332 – 3339	22.01 – 23.12
322 – 335.4	3345.8 – 3358	23.6 – 24.0
399.9 – 410	3600 – 4400	31.2 – 31.8
608 – 614		36.43 – 36.5

The requirements are **FULFILLED**.

Remarks: During the test, the EuT was set into continuous transmitting mode.

The measurement was performed up to the 10th harmonic (3150MHz).

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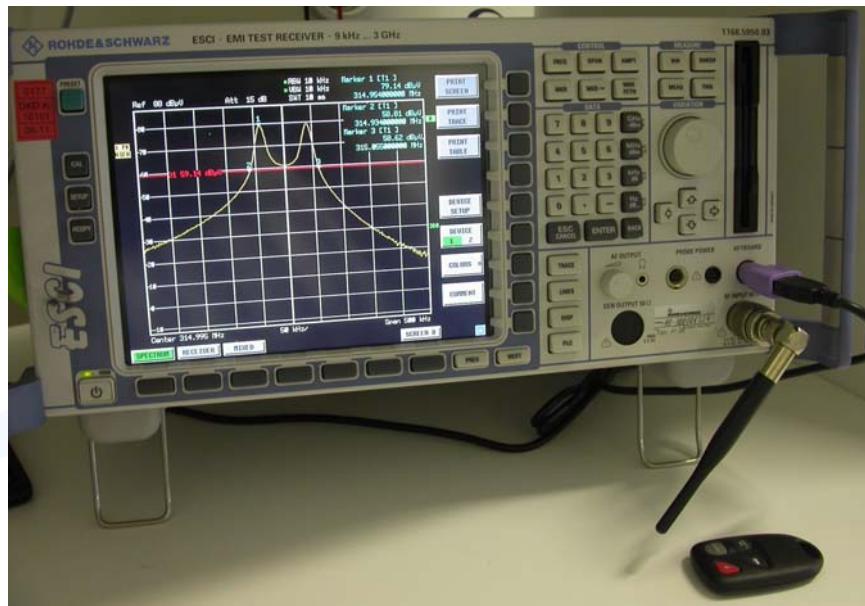
5.5 Correction for Pulse Operation (Duty Cycle)

For test instruments and accessories used see section 6 Part DC.

5.5.1 Description of the test location

Test location: AREA4

5.5.2 Photo documentation of the test set-up



5.5.3 Description of Measurement

The Duty cycle factor, expressed in dB, is arrived by taking the following formula:

$$KE = 20 \log [(t_{IB} * p) / T_w]$$

- KE: pulse operation correction factor [dB]
- t_{IW} : pulse duration for one complete pulse track [msec]
- t_{IB} : pulse duration for one pulse [μ sec]
- T_w : a period of the pulse track [msec]
- p: number of pulses in one train

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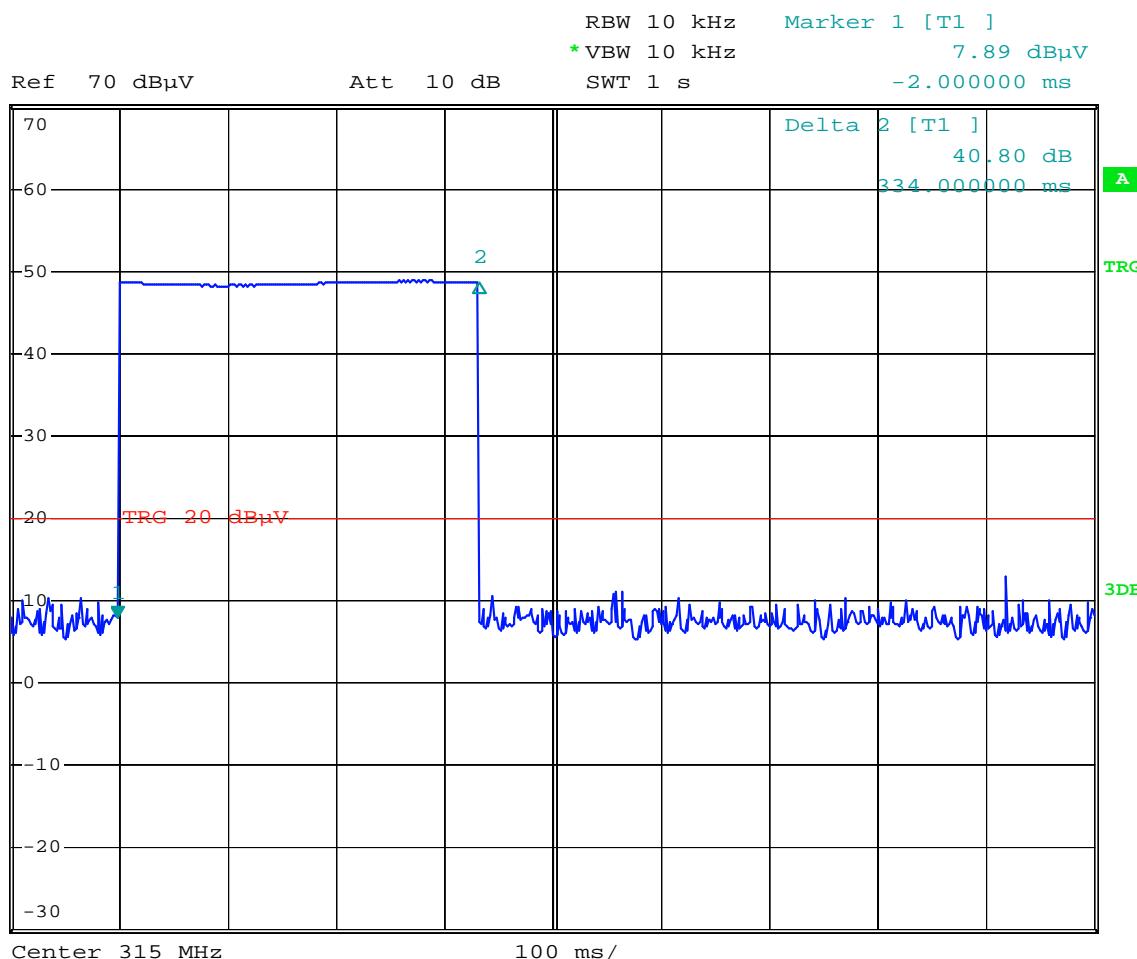
5.5.4 Test result

Duty cycle	t_{iw} [msec]	T_w [msec]	t_{iB} [msec]	p	K_E [dB / %]
Real Duty cycle					-
Within 100 msec		100		1	0.0 / 100

Remarks: The pulse train [T_w] exceeds 100 ms, therefore the duty cycle have been calculated by averaging the sum of the pulse widths over the 100 ms width with the highest average value.
For detailed results, please see the test protocol below.

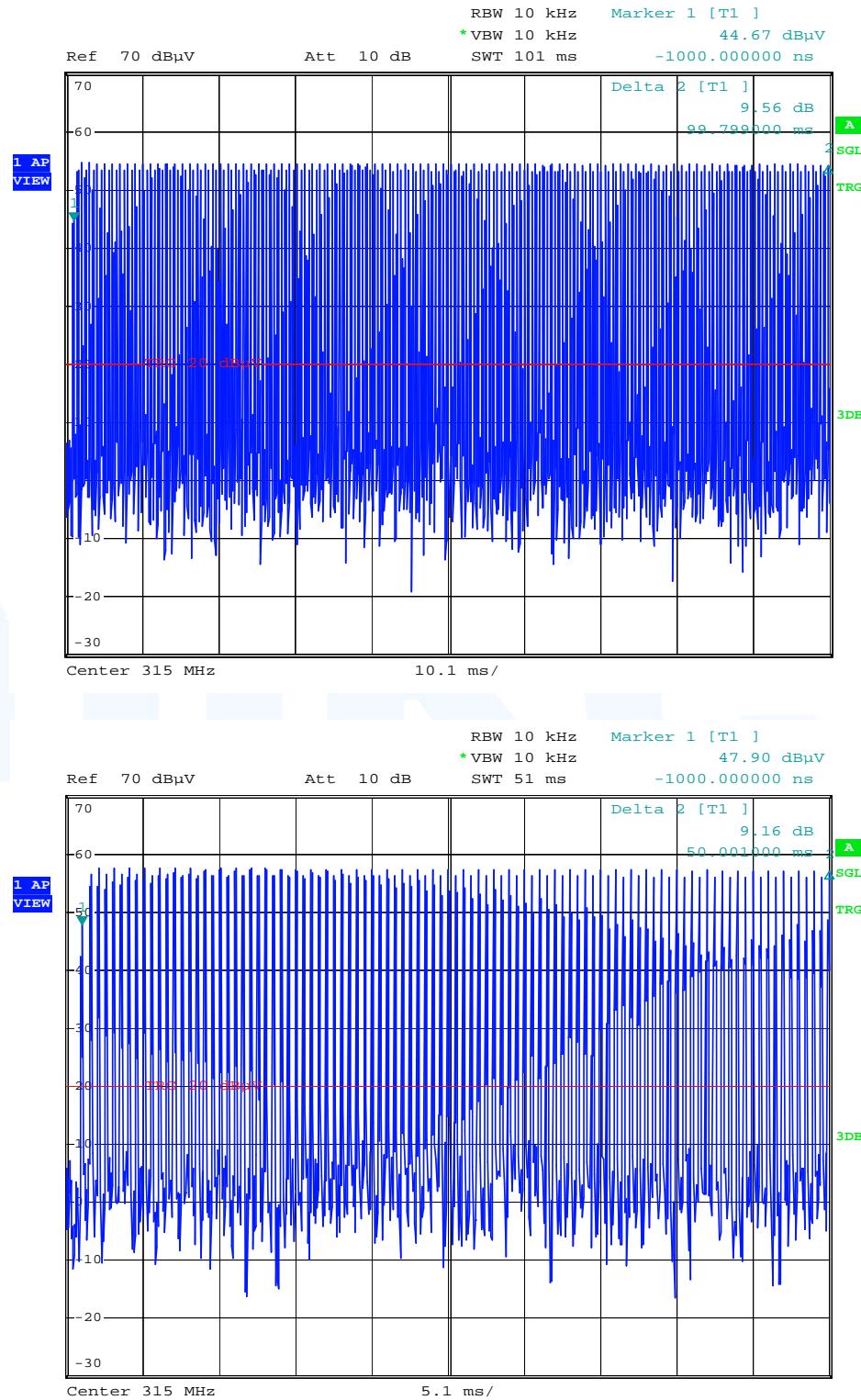
5.5.5 Test protocol

Correction for Pulse Operation (Duty Cycle) FCC Part 15 Subpart 15.35(c)

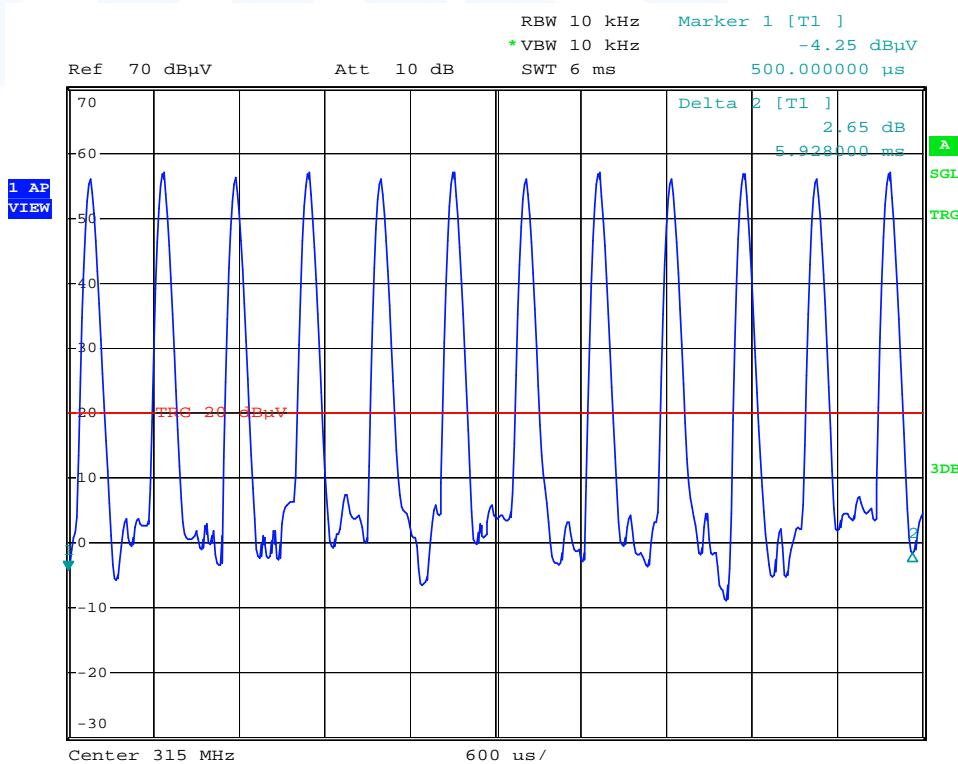
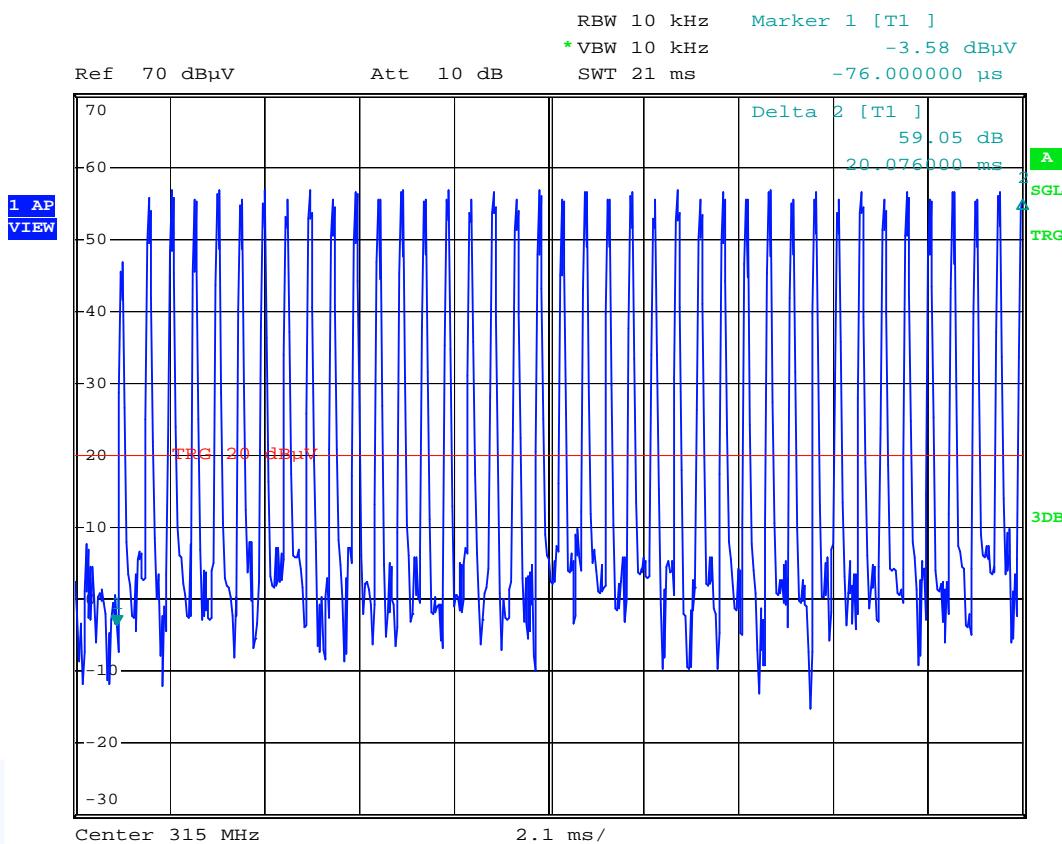


FCC ID:KPU41777

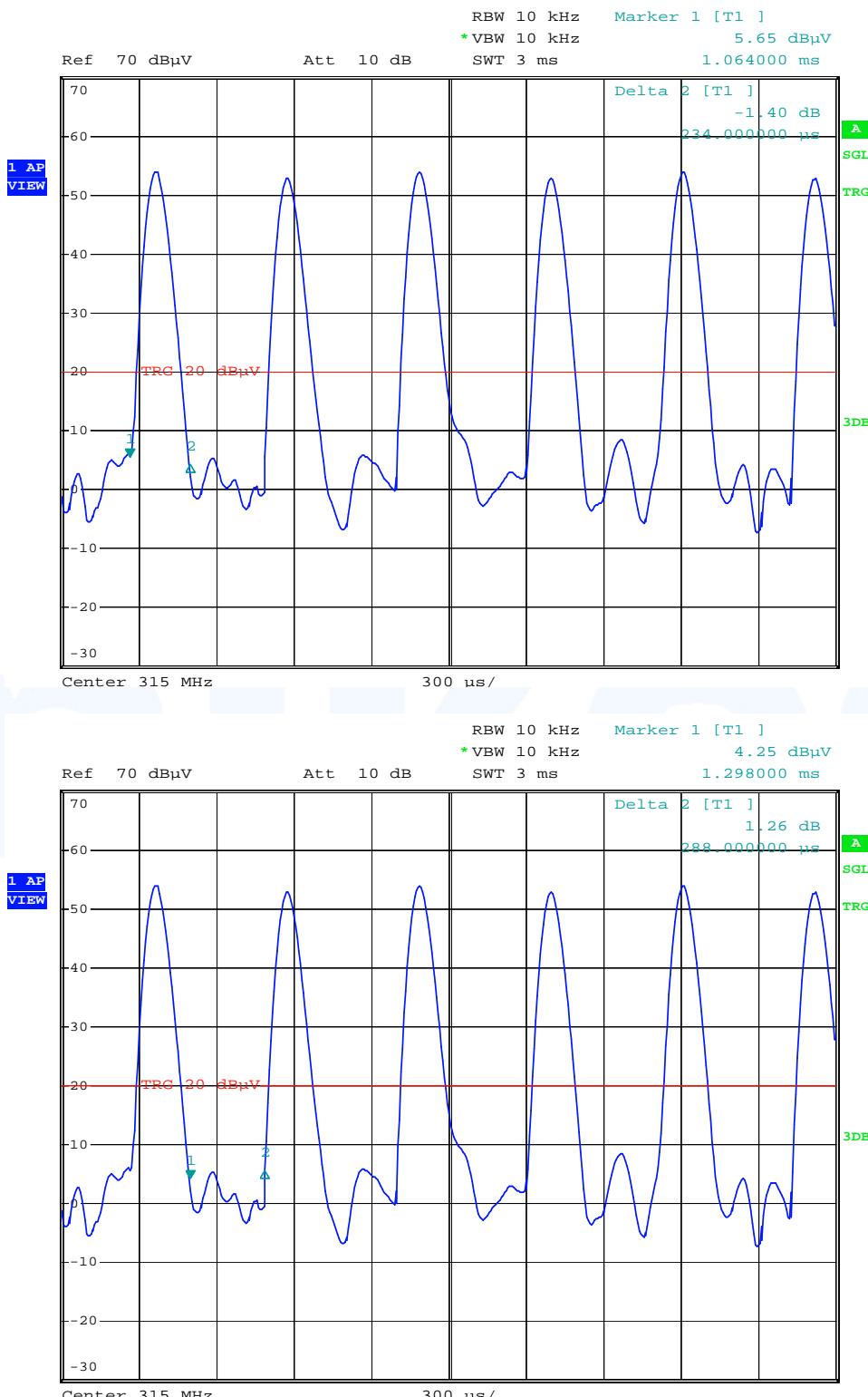
Correction for Pulse Operation (Duty Cycle)
FCC Part 15 Subpart 15.35(c)



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FCC ID:KPU41777

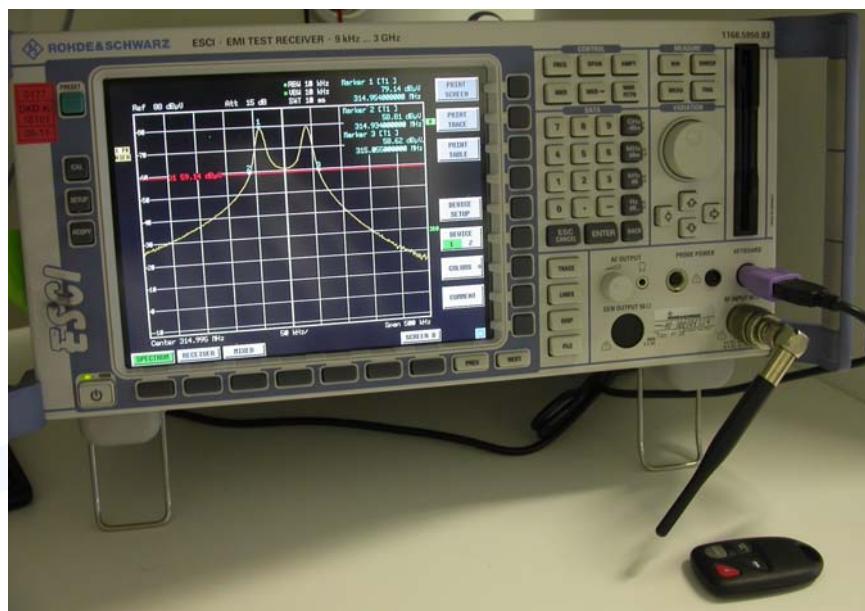
5.6 Emission Bandwidth

For test instruments and accessories used see section 6 Part **MB**.

5.6.1 Description of the test location

Test location: AREA4

5.6.2 Photo documentation of the test set-up



5.6.3 Test result

Fundamental [MHz]	20dB Bandwidth F1	20dB Bandwidth F2	Measured Bandwidth	LIMIT Fundamental f*0,0025
315.0	314.934	315.055	0.121	0.787

Limit according to FCC Part 15 Subpart 15.231(c):

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

The requirements are **FULFILLED**.

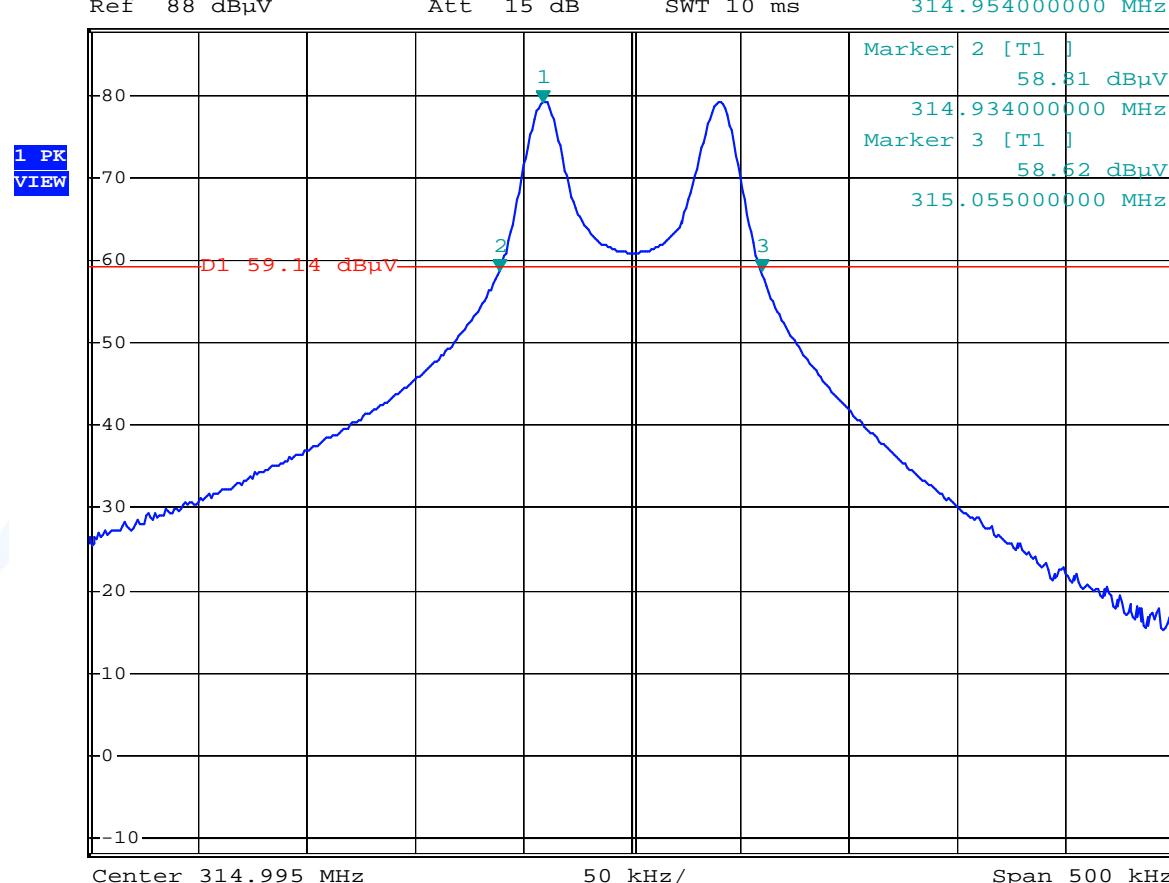
Remarks: For detailed results, please see the test protocol below.

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5.6.4 Test protocol

Emission Bandwidth
FCC Part 15 Subpart 15.231(c)

* RBW 10 kHz Marker 1 [T1] 79.14 dB μ V
 * VBW 10 kHz 314.954000000 MHz
 Ref 88 dB μ V Att 15 dB SWT 10 ms



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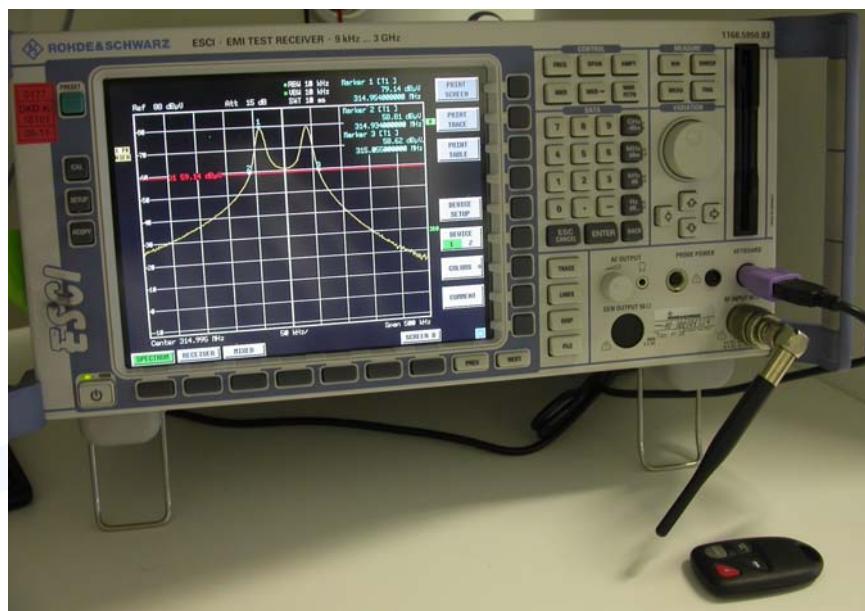
5.7 Signal deactivation

For test instruments and accessories used see section 6 Part **MB**.

5.7.1 Description of the test location

Test location: AREA4

5.7.2 Photo documentation of the test set-up



5.7.3 Test result

The duration of the transmission is 334.0 milliseconds each time the button is pushed which meets the requirement of ceasing transmission within 5 seconds of the button being released.

Limit according to FCC Part 15 Subpart 15.231(a):

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released and a transmitter activated automatically shall cease transmission within 5 seconds after activation.

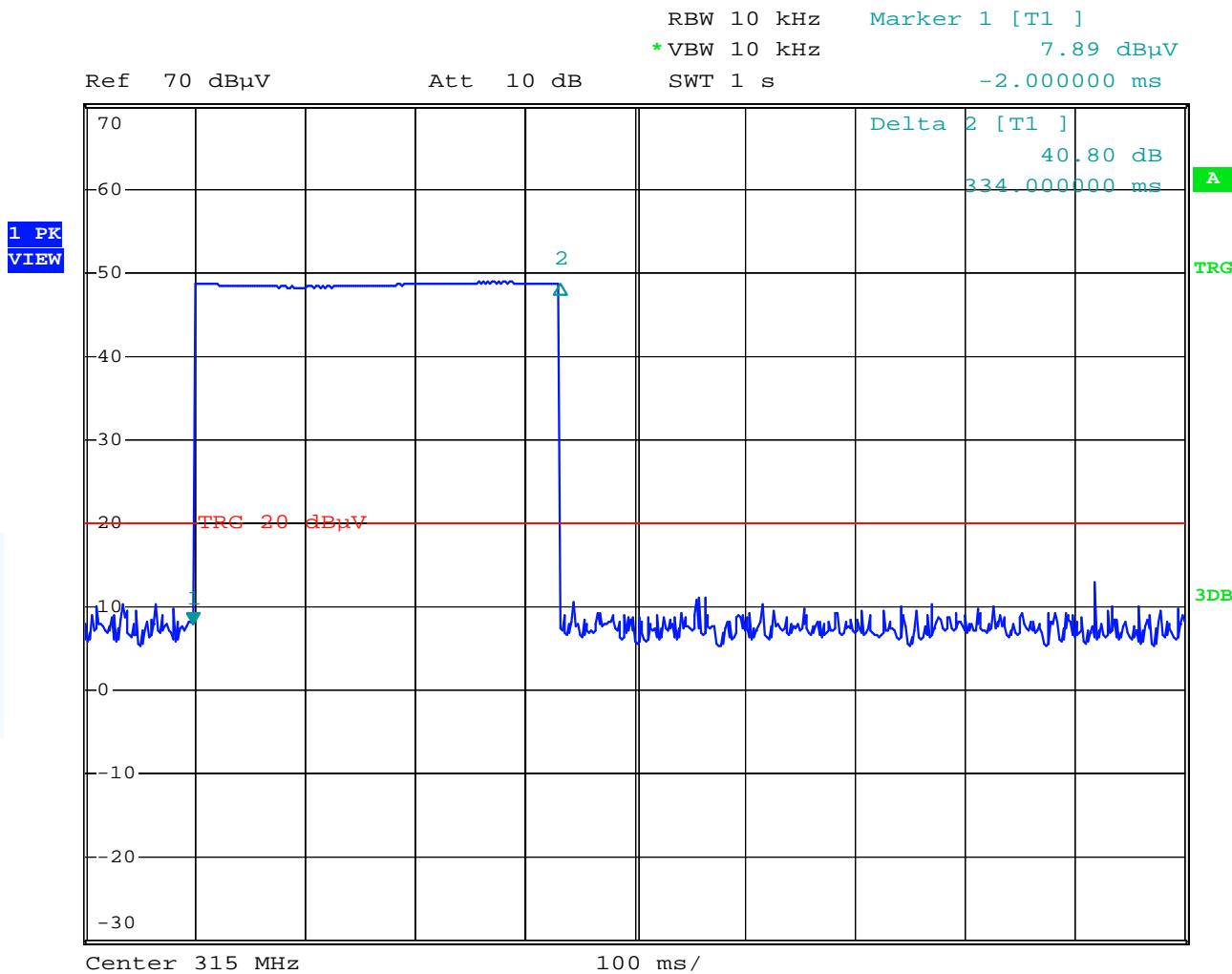
The requirements are **FULFILLED**.

Remarks: For detailed test results, please see the test protocol below.

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5.7.4 Test protocol

Signal deactivation
FCC Part 15 Subpart 15.231(a)



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6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

The calibration intervals and the calibration history will be given out on request.

Test Report No: T32177-00-00HU
 Beginning of Testing: 04 December 2007
 End of Testing: 12 December 2007

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.
CPR 2	ESVS 30	EMI Test Receiver	Rohde & Schwarz München	02-02/03-05-006
	VULB 9168	Trilog-Broadband Anten	Schwarzbeck Mess-Elektron	02-02/24-05-005
	S10162-B/+11N-50-10-5/+1	RF Cable 33m	Huber + Suhner	02-02/50-05-031
	KK-EF393-21N-16	RF Cable 20m	Huber + Suhner	02-02/50-05-033
	NW-2000-NB	RF Cable	Huber + Suhner	02-02/50-05-113
DC	ESCI	EMI Test Receiver	Rohde & Schwarz München	02-02/03-05-005
MB	ESCI	EMI Test Receiver	Rohde & Schwarz München	02-02/03-05-005
SER 1	FMZB 1516	Magnetic Field Antenna	Schwarzbeck Mess-Elektron	01-02/24-01-018
	ESCI	EMI Test Receiver	Rohde & Schwarz München	02-02/03-05-004
	S10162-B/+11N-50-10-5/+1	RF Cable 33m	Huber + Suhner	02-02/50-05-031
	KK-EF393-21N-16	RF Cable 20m	Huber + Suhner	02-02/50-05-033
	NW-2000-NB	RF Cable	Huber + Suhner	02-02/50-05-113
SER 2	ESVS 30	EMI Test Receiver	Rohde & Schwarz München	02-02/03-05-006
	VULB 9168	Trilog-Broadband Anten	Schwarzbeck Mess-Elektron	02-02/24-05-005
	S10162-B/+11N-50-10-5/+1	RF Cable 33m	Huber + Suhner	02-02/50-05-031
	KK-EF393-21N-16	RF Cable 20m	Huber + Suhner	02-02/50-05-033
	NW-2000-NB	RF Cable	Huber + Suhner	02-02/50-05-113
SER 3	FSP 30	Spectrum Analyzer	Rohde & Schwarz München	02-02/11-05-001
	AFS4-01000400-10-10P-4	RF Amplifier 1-4 GHz	PARZICH GMBH	02-02/17-05-003
	3117	Horn Antenna 1-18 GHz	EMCO Elektronik GmbH	02-02/24-05-009
	Sucoflex N-1600-SMA	RF Cable	novotronik Signalverarbeit	02-02/50-05-073
	Sucoflex N-2000-SMA	RF Cable	novotronik Signalverarbeit	02-02/50-05-075

FCC ID:KPU41777

Test Report No: T32177-00-00HU
 Beginning of Testing: 04 December 2007
 End of Testing: 12 December 2007

Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
CPR2				
02-02/03-05-006	07/24/2008	07/24/2007		
02-02/24-05-005	04/15/2008	04/15/2005	05/09/2008	05/09/2007
02-02/50-05-031				
02-02/50-05-033				
02-02/50-05-113				
DC				
02-02/03-05-005	06/11/2008	06/11/2007		
MB				
02-02/03-05-005	06/11/2008	06/11/2007		
SER1				
01-02/24-01-018	12/04/2008	12/04/2007		
02-02/03-05-004	11/30/2007	11/30/2006		
02-02/50-05-031				
02-02/50-05-033				
02-02/50-05-113				
SER2				
02-02/03-05-006	07/24/2008	07/24/2007		
02-02/24-05-005	04/15/2008	04/15/2005	05/09/2008	05/09/2007
02-02/50-05-031				
02-02/50-05-033				
02-02/50-05-113				
SER3				
02-02/11-05-001	12/06/2007	12/06/2006		
02-02/17-05-003				
02-02/24-05-009	12/15/2007	12/15/2006		
02-02/50-05-073				
02-02/50-05-075				