



**Nemko USA, Inc.**  
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## CERTIFICATION TEST REPORT

### Class II Permissive Change

Report Number: 2012 08215559 FCC  
Project Number: 10228656  
Nex Number: 215559  
Applicant: MICROPOWER TECHNOLOGIES  
4350 EXECUTIVE DRIVE, SUITE 325  
SAN DIEGO, CA 92121  
Equipment Under Test (EUT): WIRELESS DIGITAL CAMERA SYSTEM  
Model: MPT-2700  
FCC ID: ZHXMPT2700

In Accordance With: FCC Part 15 Subpart C, 15.247

Tested By: Nemko USA Inc.  
2210 Faraday Ave., Suite 150  
Carlsbad, CA 92008

Authorized By:

ANDREAS GILLMEIER, EMC/RF Test Engineer

Date: AUGUST 08, 2012

Total Number of Pages: 20



## Section1: Summary of Test Results

### 1.1 General

All measurements are traceable to national standards

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 15; Subpart C. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

Apparatus Assessed:	Wireless Digital Camera System
Model:	MPT-2700
Specification:	FCC Part 15 Subpart C, 15.247
Date Received in Laboratory:	August 02, 2012
Compliance Status:	Complies
Exclusions:	None
Non-compliances:	None

## 1.2 Report Release History

Revision	Date	Comments
-	August 08, 2012	Prepared By: Andreas Gillmeier
-	August 08, 2012	Initial Release: Alan Laudani

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TESTED BY:  Date: August 08, 2012  
ANDREAS GILLMEIER, EMC Test Engineer

## TABLE OF CONTENTS

<b>Section1: Summary of Test Results .....</b>	<b>2</b>
1.1 General .....	2
1.2 Report Release History .....	3
<b>Section 2: Equipment Under Test .....</b>	<b>5</b>
2.1 Product Identification .....	5
2.2 Theory of Operation .....	5
2.3 Technical Specifications of the EUT .....	7
<b>Section 3: Test Conditions .....</b>	<b>8</b>
3.1 Specifications .....	8
3.3 Test Environment .....	8
3.4 Test Equipment .....	9
<b>Section 4: Observations .....</b>	<b>10</b>
4.1 Modifications Performed During Assessment .....	10
4.2 Record Of Technical Judgements .....	10
4.3 EUT Parameters Affecting Compliance .....	10
4.4 Deviations From Laboratory Test Procedures .....	10
4.5 Test Deleted .....	10
4.6 Additional Observations .....	10
<b>Section 5: Results Summary .....</b>	<b>11</b>
5.1 Test Results .....	11
<b>Appendix A: Test Results .....</b>	<b>12</b>
Power Line Conducted Emissions .....	12
20 dB Bandwidth .....	13
Minimum 6dB RF Bandwidth .....	14
Peak Output Power .....	16
RF Radiated Emissions and Band-edge Compliance .....	17
Spurious RF Conducted Emissions .....	19
Power Spectral Density for Digitally Modulated Devices .....	20

## Section 2: Equipment Under Test

### 2.1 Product Identification

The Equipment Under Test was identified as follows:

**Error! Not a valid filename.**

Connection	I/O Cable
EUT Hub to Unterminated	Ethernet, 2.5m, unshielded, 24AWG, CAT 5 cable
EUT Hub to Unterminated	Serial, 4.5 m, 26AWG
EUT Hub to Display	VGA cable, 15 pol, shielded, 1.5m (with VGA to DVI adapter)
EUT Hub to RF combiner and then to Yagi Antenna	3 x 9" LMR100 cable with SMA connector on each end
EUT Hub to Unterminated	HDMI, Cable, 1 m, Shielded

### 2.2 Theory of Operation

The MPT-2700 is the hub of a Wireless Digital Camera System. Control commands communicate through the 902 to 928 MHz band radio and the Camera Data communicate through the 2400 to 2483.5 MHz band radio. The camera MPT-2700 is powered by a battery charged by Solar panels and the Hub MPT-2700 is powered by the AC mains (120 VAC 60 Hz) and connects to a network via Ethernet. The hub may have a display, mouse and serial cable when in setup or operation.

The EUT's performance during test was evaluated against the performance criterion specified by applicable test standards. Performance results are detailed in the test results section of this report.

This test report is for the MPT-2700 Hub communication system section of the system. The hub's transmitters were set into a test mode for testing. The third radio, FCC ID: PD9WM3945ABG, in the hub is used for receive mode only.

## 2.3 Technical Specifications of the EUT

Manufacturer:	MicroPower Technologies
Operating Frequency:	909.798 MHz to 920.596 MHz in the 902 -928 MHz Band 2412.0 MHz to 2462.0 MHz in the 2400 -2483.5 MHz Band
Rated Power:	Low band: 0.0076 W High band: 0.0596 W
Modulation:	Low band: GFSK, High band: Digital
Antenna Connector:	Type "SMA", professionally installed
Power Source:	120 VAC 60 Hz

## Section 3: Test Conditions

### 3.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart C, 15.247

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5850 MHz  
and 24.0-24.25 GHz bands.

### 3.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range	23 – 25 °C
Humidity range	55 – 65 %
Pressure range	100.4 – 100.8 kPa
Power supply range	120VAC nominal



### 3.4 Test Equipment

Nemko ID	Device	Manufacturer	Model	Serial Number	Cal Date	Cal Due Date
E1018	9kHz to 7GHz Spectrum Analyzer	Rohde & Schwarz	FSP7	835363/0003	02/23/2012	02/23/2013
110	Antenna, LPA	Electrometrics	LPA-25	1217	04/01/2011	04/01/2013
128	Antenna, Bicon	EMCO	3104	2882	03/21/2011	03/21/2013
E1029	Preamplifier (20MHz to 18GHz)	A.H. Systems, Inc.	PAM-0118	343	02/21/2012	02/21/2013
752	Antenna, DRG Horn, .7-18GHz	EMCO	3115	4943	12/02/2010	12/02/2012
810	Multimeter	Fluke	111	77820242	04/06/2012	04/06/2013
911	Spectrum Analyzer	Agilent	E4440A	US41421266	10/27/2011	10/27/2012
N/A	10 dB Medium Power Attenuator	Narda	768-10	N/A	N/A	N/A
911	Spectrum Analyzer	Narda	768-10	N/A	N/A	N/A

Registrations of the 10m Semi-anechoic chamber are on file with the Federal Communications Commission and with Industry Canada under Site Number 2040B-3.

## Section 4: Observations

### 4.1 Modifications Performed During Assessment

No modifications were performed during assessment.

### 4.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

### 4.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

### 4.4 Deviations From Laboratory Test Procedures

No deviations from Laboratory Test Procedure

### 4.5 Test Deleted

No Tests were deleted from this assessment.

### 4.6 Additional Observations

There were no additional observations made during this assessment.

## Section 5: Results Summary

This section contains the following:

FCC Part 15 Subpart C:

The column headed "Required" indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N No: not applicable / not relevant

Y Yes: Mandatory i.e. the apparatus shall conform to these tests.

N/T Not Tested, mandatory but not assessed. (See section 4.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

### 5.1 Test Results

Part 15C	Test Description	Required	Result
15.207 (a)	Conducted Emission Limit	N*	N/T
15.215(c)	20 dB Bandwidth	N*	N/T
15.247(a)(2)	Minimum 6dB RF Bandwidth	Y	Pass
15.247(b)(3)	Peak Output Power	Y	Pass
15.247(d)	Band-edge Compliance of RF Conducted Emissions	Y	Pass
15.247 (d)	Spurious RF Conducted Emissions	N*	N/T
15.247 (d)	Spurious Radiated Emissions	Y	Pass
15.247(e)	Power Spectral Density for Digitally Modulated Devices	N*	N/T

\* Permissive change class II; not deemed to be affected by the hardware change and therefore not re-measured

## Appendix A: Test Results

### Power Line Conducted Emissions

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

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

\*Decreases with the logarithm of the frequency.

### Test Conditions:

Sample Number:	MPT-2700	Temperature:	N/A °C
Date:		Humidity:	N/A %
Modification State:	Low, Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	

### Test Results:

Not deemed to be affected by the hardware change and therefore not re-measured.

**20 dB Bandwidth**

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

**Test Conditions:**

Sample Number:	MPT-2700	Temperature:	N/A°C
Date:	August 02, 2012	Humidity:	N/A%
Modification State:	Low , Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	

**Test Results:**

Not deemed to be affected by the hardware change and therefore not re-measured.

**Minimum 6dB RF Bandwidth**

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

**Test Conditions:**

Sample Number:	MPT-2700	Temperature:	23 °C
Date:	August 02, 2012	Humidity:	61 %
Modification State:	Low ,Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	Nemko

Test Results: EUT complies, See attached plots.

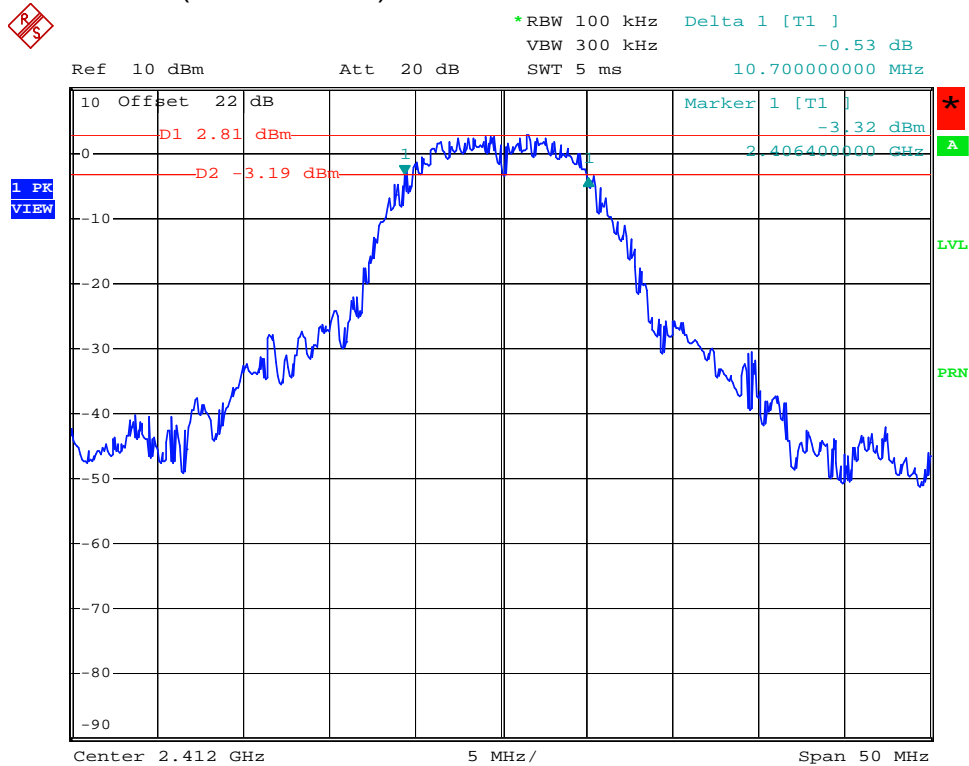
**Additional Observations:**

- Only tested in 2400 MHz band as it is required for correction of the measured peak power as the 6dB BW is larger than the largest available RBW on the spectrum analyzer.
- This is a conducted test
- RBW is set to 100kHz
- VBW is 3X RBW
- Sweep is auto
- Detector is Peak
- Trace is Max Hold
- For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was plotted; a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.
- EUT complies as 6 dB BW > 500 kHz

Channel Range	Observed 6 dB bandwidth
Low (909.798MHz)	Not tested
Mid (914.596 MHz)	Not tested
High (920.596 MHz)	Not tested

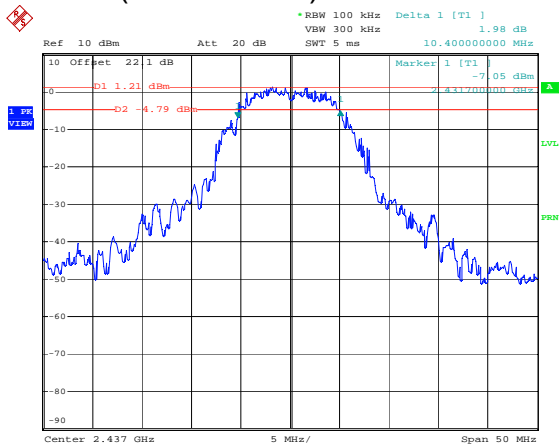
Channel Range	Observed 6 dB bandwidth
Low (2412.0 MHz)	10.70 MHz
Mid (2437.0 MHz)	10.40 MHz
High (2462.0 MHz)	10.10 MHz

(Low Channel) 6 dB Bandwidth is 10.7 MHz



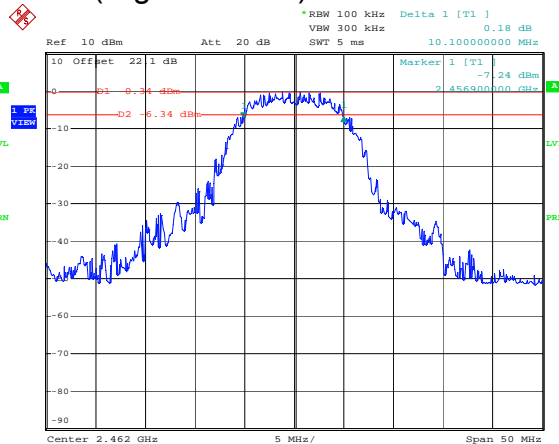
Date: 2.AUG.2012 11:20:48

(Mid Channel) 10.4 MHz



Date: 2.AUG.2012 11:14:05

(High Channel) 10.1 MHz



Date: 2.AUG.2012 11:08:17

## Peak Output Power

(3) For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Conditions:

Sample Number:	MPT-2700	Temperature:	23°C
Date:	August 02, 2012	Humidity:	61%
Modification State:	Low ,Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	Nemko

### Test Results: Table below

#### Additional Observations:

- Only measured on nominal voltage to verify that the output power complies with the rules of a permissive change class II.
- This is a conducted test. 21 dB was offset for the attenuator and cable used.
- Input voltage to the EUT was monitored by a calibrated multimeter.
- Spectrum Analyser used at Maximum RBW, VBW of 10 MHz. For the upper band, a correction factor of  $10 \times \log(\text{measured } 6\text{dB BW}/10\text{MHz})$  was added to fully account for the power of the digital modulation.
- Detector, Max Hold Peak.

Channel Range	Voltage	Measured OP (dBm)	Watts
Low (909.798 MHz)	120 VAC	8.79	<b>0.0076</b>
Mid (914.596 MHz)	120 VAC	6.86	0.0049
High (920.596 MHz)	120 VAC	6.41	0.0044

Channel Range	Voltage	Measured OP (dBm)	Calculated OP (dBm)	Watts
Low (2412.0 MHz)	120 VAC	17.44	17.73	<b>0.0593</b>
Mid (2437.0 MHz)	120 VAC	15.93	16.10	0.0407
High (2462.0 MHz)	120 VAC	14.37	14.41	0.0276



## RF Radiated Emissions and Band-edge Compliance

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Conditions:

Sample Number:	MPT-2700	Temperature:	23 – 25 °C
Date:	August 02 and 06, 2012	Humidity:	55 -65 %
Modification State:	Low and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	Nemko

### Test Results:

See attached radiated emissions table.

### Additional Observations:

- Only radiated emissions were deemed to be affected by the hardware change and therefore the conducted measurements have not been repeated.

#### Low Band:

- Span is wide enough to capture the peak level of the emission operating on the channel closest to the band edges (Lower and Upper).
- Band edges were measured with quasi-peak detector.
- VBW is 3X RBW
- Sweep is auto.
- Detector is Peak, Trace is Max Hold
- No other emissions were found within 20 dB of the limits.

#### High Band:

- Span is wide enough to capture the peak level of the emission operating on the channel closest to the band edges (Lower and Upper).
- For Lower bandedge (no restricted zone) RBW is 100kHz
- For Lower bandedge, the peak level reading was taken and a display line was drawn 20 dBc below this level, which will be the limit for this test.
- For Upper bandedge (restricted zone) RBW is 1MHz,
- For Upper bandedge Limit is 74 dBuV/m peak @ 3m
- For Upper bandedge Limit is 54 dBuV/m average @ 3m
- VBW is 3X RBW
- Sweep is auto.
- Detector is Peak, Trace is Max Hold
- Average = Peak + Duty Cycle Factor
- No other emissions were found within 20 dB of the limits.

## Bandedge and Harmonic Spurios

Radiated Emissions Data																								
Job # :	10228656			Date :	08/02-06/2012			Page	1		of	1												
NEX #:	215559			Time :																				
				Staff :	AG																			
Client Name :	MicroPower Technologies							EUT Voltage :	120V															
EUT Name :	Wireless Hub							EUT Frequency :	60															
EUT Model # :	MPT-2700							Phase:	1															
EUT Serial # :	N/A																							
EUT Config. :	TX in test mode																							
							Distance < 1000 MHz:	3 m																
							Distance > 1000 MHz:	3 m																
Specification :	FCC Part 15.247																							
Loop Ant. #:	NA			Temp. (°C) :	23-24			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Quasi-Peak</td> <td>RBW: 120 kHz</td> </tr> <tr> <td>Video Bandwidth</td> <td>300 kHz</td> </tr> <tr> <td>Peak</td> <td>RBW: 1 MHz</td> </tr> <tr> <td>Video Bandwidth</td> <td>3 MHz</td> </tr> <tr> <td colspan="2">Average = Peak + Duty Cycle Factor</td> </tr> <tr> <td colspan="2">DCF = 20 x log(duty cycle)</td> </tr> </table>					Quasi-Peak	RBW: 120 kHz	Video Bandwidth	300 kHz	Peak	RBW: 1 MHz	Video Bandwidth	3 MHz	Average = Peak + Duty Cycle Factor		DCF = 20 x log(duty cycle)	
Quasi-Peak	RBW: 120 kHz																							
Video Bandwidth	300 kHz																							
Peak	RBW: 1 MHz																							
Video Bandwidth	3 MHz																							
Average = Peak + Duty Cycle Factor																								
DCF = 20 x log(duty cycle)																								
Bicon Ant. #:	128_3m			Humidity (%) :	55-72																			
Log Ant. #:	110_3m			Spec Analyzer #:	911																			
DRG Ant. #:	752			Analyzer Display #:	911																			
Cable LF#:	SAC_10m			Quasi-Peak Detector #:	911																			
Cable HF#:	WCC			Duty Cycle (%):	2.60 0.37																			
Preamp LF#:	N/A																							
Preamp HF#:	E1029																							
Measurements below 1 GHz are Quasi-Peak values, unless otherwise stated. Measurements above 1 GHz are Average values, unless otherwise stated.																								
Meas. Freq. (MHz)	Meter Reading Vertical	Meter Reading Horizontal	Det.	EUT Side DEG	Ant. Height cm	Max. Reading (dBμV)	Corrected Reading (dBμV)	Spec. limit (dBμV)	CR/SL Diff. (dB)	Pass Fail	Comment													
909.798	68.3	80.9	P	179.0	100.0	80.9	110.5				RBW 3MHz, VBW 8MHz													
920.596	64.6	78.3	P	165.0	100.0	78.3	107.9				RBW 3MHz, VBW 8MHz													
902.0	35.8	47.5	P	179.0	100.0	47.5	77.1	90.5	-13.4	Pass	band edge; limit 20 dBc													
928.0	34.4	47.9	P	165.0	100.0	47.9	77.6	87.9	-10.3	Pass	band edge; limit 20 dBc													
2390.0	26.1	30.0	P	180.0	150.0	30.0	66.2	74.0	-7.8	Pass	band edge restricted													
2390.0	26.1	30.0	A	180.0	150.0	30.0	46.2	54.0	-7.8	Pass	band edge restricted													
2400.0	23.0	31.1	P	180.0	150.0	31.1	67.3	90.3	-23.0	Pass	100k rbw													
2400.0	23.0	31.1	A	180.0	150.0	31.1	47.3	70.3	-23.0	Pass	100k rbw													
2412.0	62.5	74.1	P	180.0	157.0	74.1	110.3				1 MHz RBW													
2483.5	26.3	29.3	P	190.0	157.0	29.3	65.5	74.0	-8.5	Pass	bandedge													
2483.5	26.3	29.3	A	190.0	157.0	29.3	45.5	54.0	-8.5	Pass	bandedge													
1841.0	69.3	77.5	P	184.0	100.0	77.5	67.4	87.5	-20.1	Pass	900 MHz band, high channel													
1841.0	69.3	77.5	A	184.0	100.0	77.5	47.4	67.5	-20.1	Pass	900 MHz band, high channel													
1829.0	69.1	79.6	P	193.0	100.0	79.6	69.5	74.0	-4.5	Pass	900 MHz band, mid channel													
1829.0	69.1	79.6	A	193.0	100.0	79.6	49.5	54.0	-4.5	Pass	900 MHz band, mid channel													
1820.0	75.7	84.2	P	168.0	100.0	84.2	74.1	90.5	-16.4	Pass	900 MHz band, low channel													
1820.0	75.7	84.2	A	100.0	100.0	84.2	54.1	70.5	-16.4	Pass	900 MHz band, low channel													
4825.0	62.2	61.0	P	1.0	106.0	62.2	61.3	74.0	-12.7	Pass	2400 MHz band, low channel													
4825.0	62.2	61.0	A	1.0	106.0	62.2	41.3	54.0	-12.7	Pass	2400 MHz band, low channel													
4864.0	61.0	57.0	P	350.0	109.0	61.0	60.1	74.0	-13.9	Pass	2400 MHz band, mid channel													
4864.0	61.0	57.0	A	350.0	109.0	61.0	40.1	54.0	-13.9	Pass	2400 MHz band, mid channel													
4924.0	58.0	57.0	P	183.0	108.0	58.0	57.1	74.0	-16.9	Pass	2400 MHz band, high channel													
4924.0	58.0	57.0	A	183.0	108.0	58.0	37.1	54.0	-16.9	Pass	2400 MHz band, high channel													

## Spurious RF Conducted Emissions

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Conditions:

Sample Number:	MPT-2700	Temperature:	N/A °C
Date:		Humidity:	N/A %
Modification State:	Low, Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	

### Test Results:

Not deemed to be affected by the hardware change and therefore not re-measured.

### Power Spectral Density for Digitally Modulated Devices

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Conditions:

Sample Number:	MPT-2700	Temperature:	N/A °C
Date:		Humidity:	N/A %
Modification State:	Low ,Mid and High Channel	Tester:	Andreas Gillmeier
		Laboratory:	

### Test Results:

Not deemed to be affected by the hardware change and therefore not re-measured.