

# FCC TEST REPORT FCC ID: QOAMD-210R

Product : Wireless magnetic contact Trade Name : Focus Model Name : MD-210R Serial Model : N/A Report No. : PTS20121009680F

# Prepared for

Shenzhen Meian Technology Co.,Ltd .

No.32, Lanshui Rd, Longdong, Longgang District, Shenzhen, China

## Prepared by

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# **TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Meian Technology Co.,Ltd .			
Address:	No.32,Lanshui Rd,Longdong,Longgang District,Shenzhen,China			
	Shenzhen Meian Technology Co.,Ltd .			
Address:	No.32,Lanshui Rd,Longdong,Longgang District,Shenzhen,China			
Product description				
Product name:	Wireless magnetic contact			
Model and/or type reference :	MD-210R			
Serial Model :	N/A			
Rating(s):	DC 3V			
Standards	FCC Part15.231			
Test procedure	ANSI C63.4-2003			
	as been tested by PTS, and the test results show that the in compliance with the FCC requirements. And it is applicable only in the report.			
document may be altered or rev the document.	iced except in full, without the written approval of PTS, this vised by PTS, personal only, and shall be noted in the revision of			
Date of Test				
Date (s) of performance of tests Date of Issue				
Test Result				
Testing Engine	7			
Technical Manager : Supervisor				
Authorized Sig	Signatory : Joseph Cu Jacky Ou / Manager			

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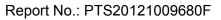




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## **1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

FCC Part15, Subpart C					
Standard Section	Test Item Judgment Remark				
15.207	Conducted Emission	N/A	Note(1)		
15.203	Antenna Requirement	Pass			
15.231b	Radiated Spurious Emission	Pass			
15.231c	Occupied Bandwidth	Pass			
15.231a(1)	Dwell Time of Periodic Operation	Pass			

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.



#### 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China. FCC Registration No.:238937; IC Registration No.:9270A-1

#### **1.2 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement y  $\pm$  U  $_{\rm 2}$  where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of ~ k=2  $_{\rm 2}$  providing a level of confidence of approximately 95 %  $_{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless magnetic contact		
Trade Name	Focus		
Model Name	MD-210R		
Serial Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wireless magnetic contact   Product Type Remote Control   Operation Frequency: 433.98MHz   Modulation Type: FSK   Number Of Channel 1CH.   Antenna Designation: Build-in ANT   Antenna Gain(Peak) 0.8dBi   Output Power: 68.95 dBuV/m @3m(AV Max.)   More details of EUT technical specification, please refer   to the User's Manual.		
Channel List	N/A		
Adapter	N/A		
Battery	DC 3.0V		

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

#### 2.

#### Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Build-in ANT	N/A	0.8	Antenna

3.

#### **Operation principle:**

(1)When the distance between the magnetic stripe and transmitter beyond 2.5cm, the transmitter will send alarm information to the receiver.

(2)The sensor will stop transmitting when the distance between the magnetic stripe and transmitter less than 2.5 cm.

(3)When the battery voltage is low(<2.7V), a "low battery" message is sent to the receiver. The sensor will sent the alarm periodically every 33 sec till the battery goes flat.

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	TX1	
Model 2	TX2	

For Conducted Emission			
Final Test Mode Description			
Mode 1	N/A		

For Radiated Emission			
Final Test Mode Description			
Mode 1	TX1		
Mode 2	TX2		

For Dwell Time of Periodic Operation			
Final Test Mode Description			
Mode 1	TX1		
Mode 2 TX2			

Note:

(1) The EUT use new battery.

(2) N/A" denotes test is not applicable in this Test Report.

TX1 mode is when the distance between the magnetic stripe and transmitter beyond 2.5cm TX2 mode is When the battery voltage is low(<2.7V)

TX1 and TX2 was continuous transmission for radiated emisssion

TX1 and TX2 was Periodic Continuous Transmission for Dwell Time of Periodic Operation.



## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT	



## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless magnetic contact	Focus	MD-210R	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in  $\[$ Length  $\]$  column.



-	2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Radiation Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	Calibration period	
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2013	1 year	
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2013	1 year	
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2013	1 year	
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2013	1 year	
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2013	1 year	
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2013	1 year	
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2013	1 year	
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2013	1 year	
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2013	1 year	
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2013	1 year	
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	Jul. 06. 2013	1 year	
Cond	luction Test equip	ment					
Item	Kind of Equipme		r Type No.	Serial No.	Calibrated until	Calibration period	
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2013	1 year	
2	LISN	R&S	ENV216	101313	Jul. 06. 2013	1 year	
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2013	1 year	
4	50Ω Coaxial Swit	ch Anritsu	MP59B	6200264417	′ Jul. 06. 2013	1 year	
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2013	1 year	
6	Absorbing clam	p R&S	MOS-21	100423	Jul. 06. 2013	1 year	



## 3. ANTENNA REQUIREMENT

#### 3.1 STANDARD REQUIREMENT

15.203 requirements: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 3.2 EUT ANTENNA

The EUT antenna is Build-in ANT. It complies with the standard requirement.

## 3.3 CONDUCTED EMISSION MEASUREMENT

## 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru	
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0			56.00	46.00	CISPR	
5.0 -30.0			60.00	50.00	CISPR	

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

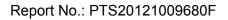
Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz





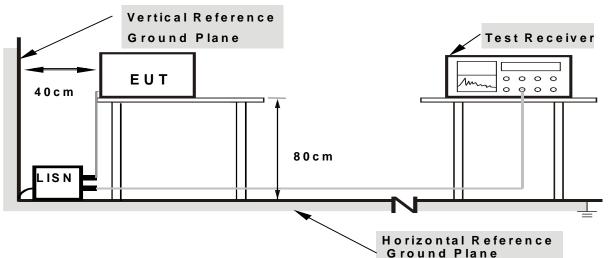
#### 3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



## 3.2.5 TEST RESULT

l			
EUT :	Wireless magnetic contact	Model Name. :	MD-210R
Temperature :	<b>26</b> ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	N/A	Test Mode :	N/A

Note: It is powered by the battery, Conducted emission test is not applicable.



## 3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)						
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
Above 960	500	3				

Note:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231(b))

Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)
40.66 - 40.70	2250.00	225.00
70 - 130	1250.00	125.00
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3750.00	375.00
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12500.00	1250.00

Notes:

(1) \*\* linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than AV Mode Limit, the EUT shall be deemed to meet AV Limits and then no additional AV Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

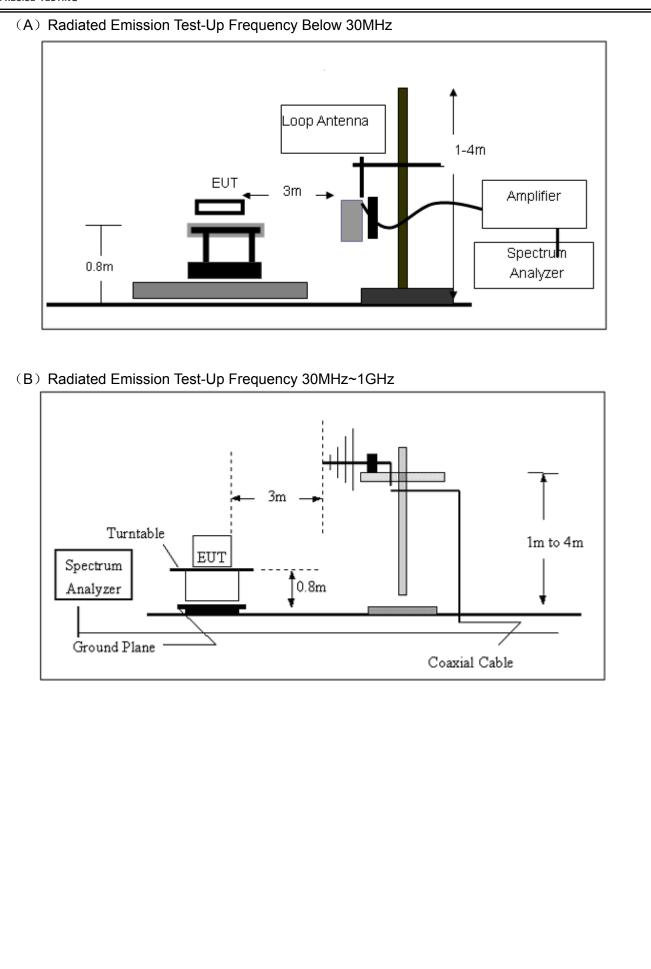
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 3.4.3 DEVIATION FROM TEST STANDARD

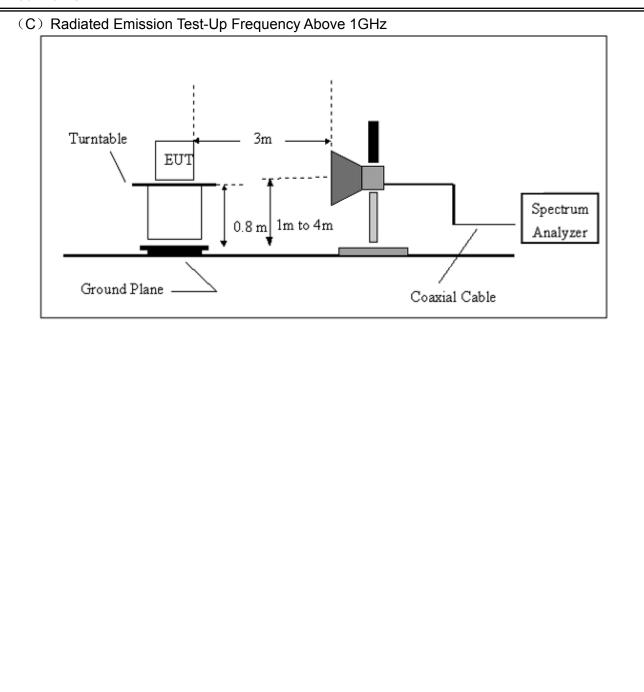
No deviation

#### 3.4.4 TEST SETUP











## 3.4.5 TEST RESULTS (BLOW 30MHz)

EUT :	Wireless magnetic contact	Model Name. :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	Model 1/2	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Distance extrapolation factor =20 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



## 3.4.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

EUT:	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	Mode 1	Polarization :	Horizontal

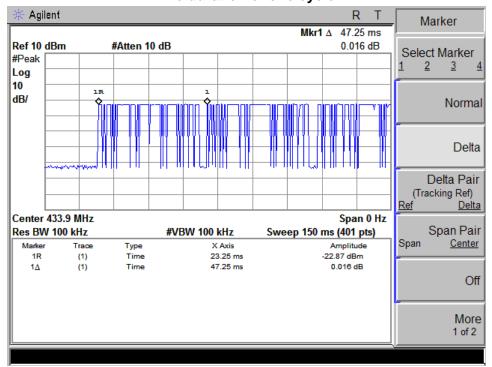
The duty cycle is simply the on time divided by the period:

The duration of one cycle = 47.5ms

Effective period of the cycle =  $(5 \times 0.875) + (19 \times 0.45)$  ms= 12.925ms

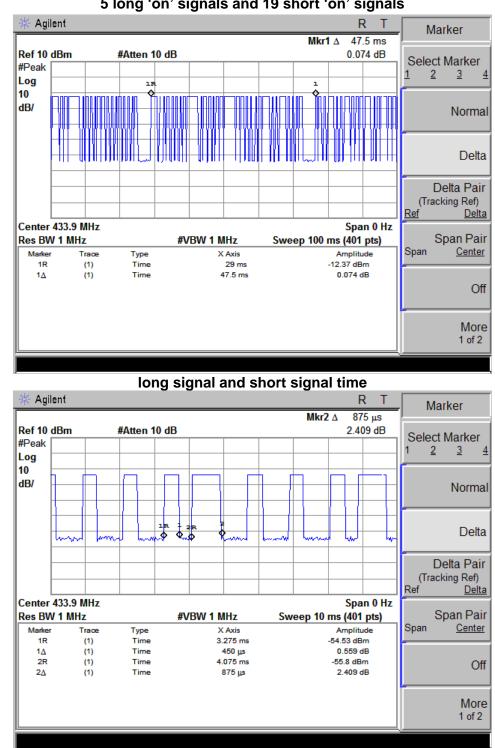
DC = 12.925ms/47.5ms = 0.272

Therefore, the average factor is found by 20log0.272 = -11.30dB



The duration of one cycle





5 long 'on' signals and 19 short 'on' signals

NOTE: The Peak value is less than AV limit already, the Duty Cycle evaluation is not required for mode 2.



EUT :	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	Stata
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
433.980	-11.30	80.25	68.95	100.82	80.82	pass
869.1301	-11.30	49.98	38.68	80.82	60.82	pass
1737.500	-11.30	52.76		74.00	54.00	pass
2175.000	-11.30	49.87		80.82	60.82	pass
				74.00	54.00	pass
				74.00	54.00	pass

EUT :	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.0V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Sidle
433.980	-11.30	79.92	68.62	100.82	80.82	pass
869.1301	-11.30	50.14	38.84	80.82	60.82	pass
1737.500	-11.30	46.22		74.00	54.00	pass
2175.000	-11.30	44.79		80.82	60.82	pass
				74.00	54.00	pass
				74.00	54.00	pass



EUT :	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 2.6V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	Sidle
433.980		71.43		100.82	80.82	pass
869.1301		49.98		80.82	60.82	pass
1737.500		52.76		74.00	54.00	pass
2175.000		49.87		80.82	60.82	pass
				74.00	54.00	pass
				74.00	54.00	pass

EUT :	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>20</b> ℃	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 2.6V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	Chata
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
433.980		70.21		100.82	80.82	pass
869.1301		50.14		80.82	60.82	pass
1737.500		46.22		74.00	54.00	pass
2175.000		44.79		80.82	60.82	pass
				74.00	54.00	pass

#### Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

3. FCC Limit for Average Measurement = 41.6667(433.98)-7083.3333 = 10999.1811uV/m =80.82dBuV/m



## 4. BANDWIDTH TEST

#### 4.1 TEST PROCEDURE

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. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier. Limit: 433.98MHz\*0.25%=1.08MHz

#### 4.2 DEVIATION FROM STANDARD

No deviation.

#### 4.3 TEST SETUP



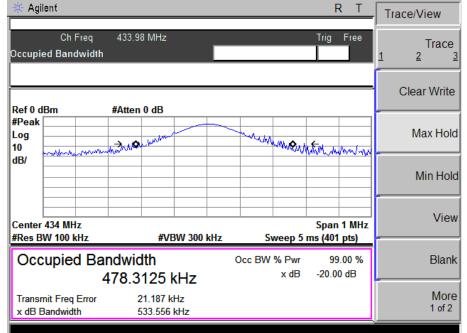


## 4.4 TEST RESULTS

EUT :	Wireless magnetic contact	Model Name :	MD-210R
Temperature :	<b>26</b> ℃	Relative Humidity :	53%
Pressure :	1020 hPa	Test Power :	DC 3.0V
Test Mode :	Mode 1/2		

Test Mode	Frequency	20 dBc Bandwidth	Limit
	(MHz)	(MHz)	(MHz)
Mode 1	433.98	0.533	1.08
Mode 2	433.98	0.497	1.08

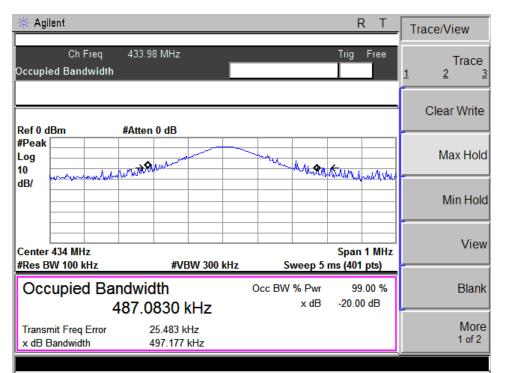
Mode 1





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## **5. TRANSMITTER TIMEOUT**

#### 5.1 REQUIREMENTS

47 CFR FCC Part 15 Subpart C, section 15.231(a)/(e): If devices complying with 47 CFR FCC Part 15 Subpart C, section 15.231(a).

(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.

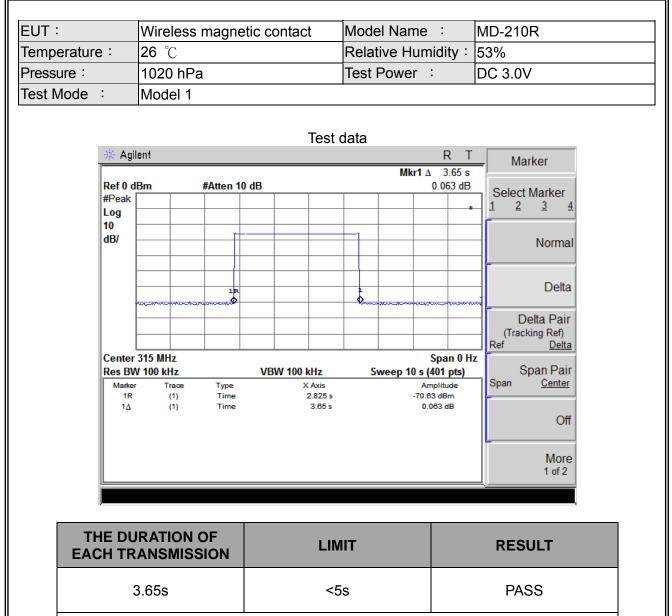
(3) Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour.

(4) Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

(5) Transmission of set-up information for security systems may exceed the transmission duration limits in paragraphs 15.231(a) of this section, provided such transmission are under the control of a professional installer and do not exceed ten seconds after a manually operated switch is released or a transmitter is activated automatically. Such set-up information may include data. If devices complying with 47 CFR FCC Part 15 Subpart C, section 15.231(e)

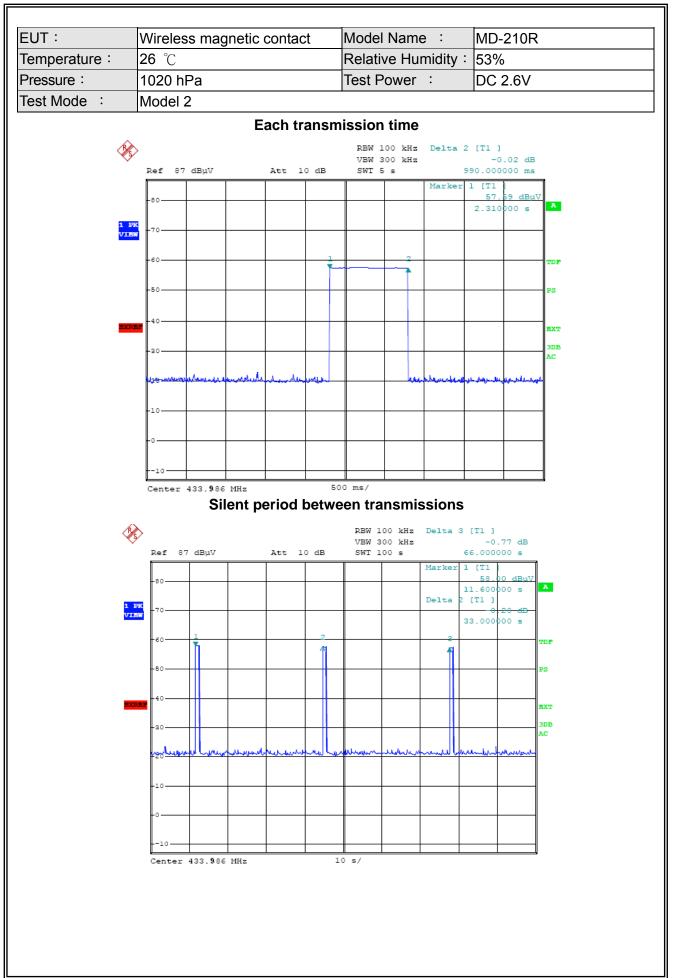
Intentional radiators may operate at a periodic rate exceeding that specified in section 15.231(a) and may be employed for any type of operation, including operation prohibited section 15.231(a).





A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.







.

THE DURATION OF EACH TRANSMISSION	LIMIT	RESULT		
0.99s	<5s	PASS		
A transmitter activated automatically shall cease transmission within 5 seconds afteractivation.				



