

Report No: DDT-RE140363

Issued Date: 2014/03/13

FCC CERTIFICATION TEST REPORT

FOR

Applicant	••	inMusic Brands,Inc
Address	••	200 SCENIC VIEW DRIVE, SUITE 201 CUMBERLAND, RI 02864, U.S.A
Equipment under Test	••	Wireless Microphone Adaptor
Model No	_••	Miclink Wireless
Trade Mark	:	ALESIS
FCC ID	:	Y4O-LUBXTX
Manufacturer	•	Integrity Electronic Co.,Ltd
Address	:	NO.68, Huang He Road., Feng Huang Gang, Tang Xia Town, Dong Guan City, Guang Dong Province, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-22891499 <u>Http://www.dgddt.com</u>



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TEST REPORT DECLARE

Applicant	:	inMusic Brands,Inc
Address	:	200 SCENIC VIEW DRIVE, SUITE 201 CUMBERLAND, RI 02864, U.S.A
Equipment under Test	:	Wireless Microphone Adaptor
Model No	:	Miclink Wireless
FCC ID	:	ALESIS
Trade Mark	:	Y4O-LUBXTX
Manufacturer	:	Integrity Electronic Co.,Ltd
Address	:	NO.68, Huang He Road., Feng Huang Gang, Tang Xia Town, Dong Guan City, Guang Dong Province, China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C: 2012

Test procedure used: ANSI C63.10:2009

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-RE140363			
Date of Test:	2014/03/10~2014/03/13	Date of Report:	2014/03/13	

Prepared By:

Leo Liu/Engineer

APPROVED

Jamy Yu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

1. Summary of test results

Description of Test Item	Standard	Results		
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.10 :2009	PASS		
20dB Bandwidth	FCC Part 15: 15.215 ANSI C63.10 :2009	PASS		
Emissions outside the specified frequency bands	FCC Part 15: 15.247 ANSI C63.10 :2009	PASS		
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.10 :2009	PASS		
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS		
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 :2009	PASS		
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS		
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.10 :2009	PASS		
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10 :2009	N/A		
Antenna requirement	FCC Part 15: 15.203	PASS		
Note: N/A is an abbreviation for Not Applicable.				

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2. General test information

2.1. Description of EUT

EUT* Name	:	Wireless Microphone Adaptor	
Model Number	:	Miclink Wireless	
EUT function description	:	Please reference user manual of this device	
Power supply	:	DC 3V from battery	
Operation frequency	:	2406MHz~2474MHz	
Modulation	:	FSK	
Data rate	:	5Mbps	
Antenna Type	:	Rufa 2.4GHz SMD Antenna, Maximum Gain: 2.1dBi	
Date of Receipt	:	2014/03/10	
Sample Type	:	Series production	

Note1: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number or Type	Serial No.	Other
/	/	/	/	/

2.3. Assistant equipment used for test

Description of Assistant equipment	Manufacturer	Model number or Type	Other
/	/	/	/

2.4. Block diagram of EUT configuration for test



Note: For Tx Mode, A special test firmware was installed in the RF chip of EUT and which can exercise the EUT work in continues RF test mode at specified test channel as below:

Tested mode, channel, and data rate information			
Mode Channel Frequency (MHz)			
Tx Mode	Low	2406	
	Middle	2442	
	High	2474	

2.5. Test environment conditions

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

Temperature range:	21-25℃
Humidity range:	40-75%
Pressure range:	86-106kPa

2.6. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong

Province, China, 523808 Tel: +86-0769-22891499 http://www.dgddt.com

FCC Registration Number: 270092 Industry Canada site registration number: 10288A-1

2.7. Measurement uncertainty

Test Item	Uncertainty
Occupied Channel Bandwidth	±1%
Uncertainty for radio frequency	1×10 ⁻⁹
RF Output power, conducted	±0.6dB
Power Spectral Density, Conducted	±1.2dB
Unwanted Emissions, Conducted	±0.6dB
Temperature	±0.2℃
Humidity	±1%
DC and Low frequency voltage	±0.5%
Time	±1%
Duty Cycle	±1%
Uncertainty for Radiation Emission test	3.14 dB (Polarize: V)
(30MHz-1GHz)	3.16 dB (Polarize: H)
Uncertainty for Radiation Emission test	2.08dB(Polarize: V)
(1GHz to 25GHz)	2.56dB (Polarize: H)
Uncertainty for Conduction emission test(150KHz-30MHz)	2.44dB
Uncertainty for Radiation Emission test (9KHz-150KHz)	3.89dB
Uncertainty for Radiation Emission test (150KHz-30MHz)	3.21dB

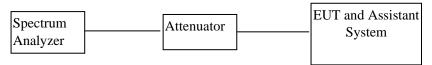
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Maximum Peak Output Power

3.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2013/11/13	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2013/11/13	1 Year

3.2. Block diagram of test setup



3.3. Limits

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W.

3.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 3.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Measure the maximum output power of EUT by spectrum analyzer with PK detector and RBW=2MHz(above 6dB bandwidth of measured signal), VBW=3MHz

Note: The attenuator loss was inputted into spectrum analyzer as amplitude offset.

3.5. Test Result

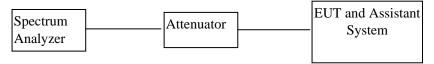
EUT: Wireless Microphone Adaptor M/N: Miclink Wireless						
Mode	Freq (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Conclusion	
	2406	4.94	30	25.06	PASS	
Tx	2442	4.79	30	25.21	PASS	
	2474	4.76	30	25.24	PASS	
Test Date: 2014/03/12 Test Engineer: Leo					Leo	

4. 20dB Bandwidth

4.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2013/11/13	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2013/11/13	1 Year

4.2. Block diagram of test setup



4.3. Limits

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.

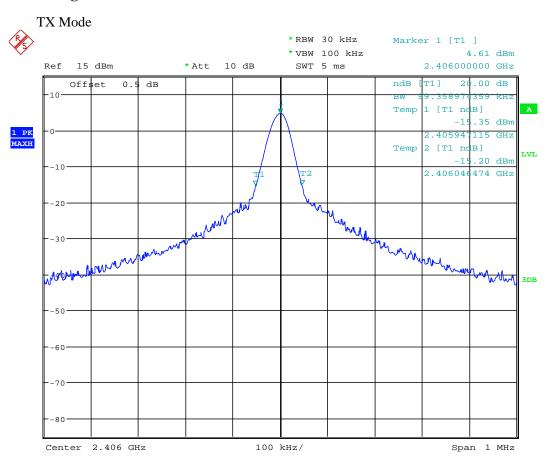
4.4. Test Procedure

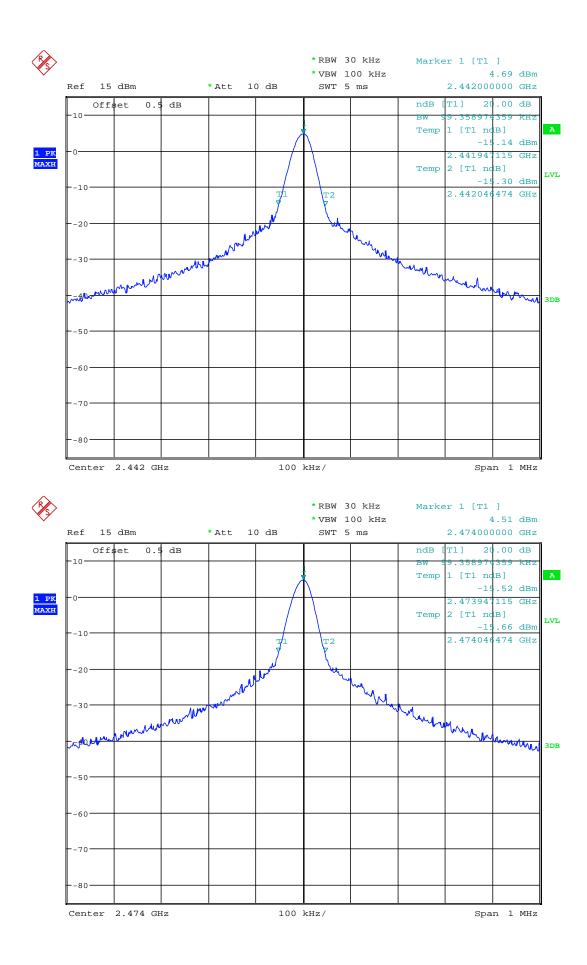
- (1) Configure EUT and assistant system according clause 2.4 and 4.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 kHz RBW and 100 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.5. Test Result

EUT: Wireless Microphone Adaptor M/N: Miclink Wireless					
Mode	Freq (MHz)	Result (MHz)	Limit (MHz)	Margin (MHz)	Conclusion
TX	2406	0.099	/	/	PASS
	2442	0.099	/	/	PASS
	2474	0.099	/	/	PASS
Test Date: 2014/03/12			Т	est Engineer : 1	Leo

4.6. Original test data





5. Emissions outside the specified frequency bands

5.1. Test equipment

Same with 3.1

5.2. Block diagram of test setup

Same with 3.2

5.3. Limits

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.4. Test Procedure

- (1) Configure EUT and assistant system according clause 2.4 and 5.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Establish a reference level by using the following procedure:

Center frequency Channel center frequency

RBW: 100KHz VBW: 300KHz

Span 1.5times the bandwidth

Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

Trace mode wax noid

- (5) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (6) Set the spectrum analyzer as follows:

RBW: 100KHz VBW: 300KHz

Span Encompass frequency range to be measured

Number of measurement points \geqslant span/RBW

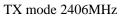
Detector Mode: Peak
Sweep time: auto
Trace mode Max hold

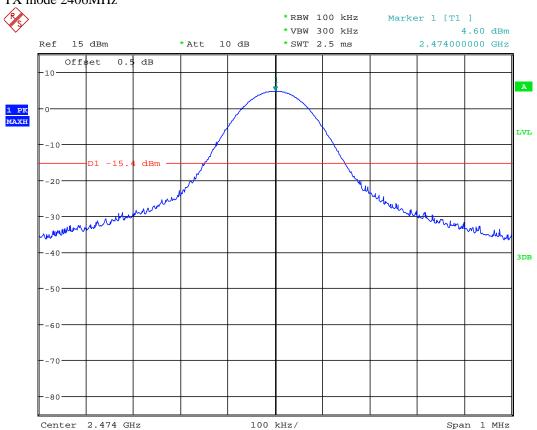
(7) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

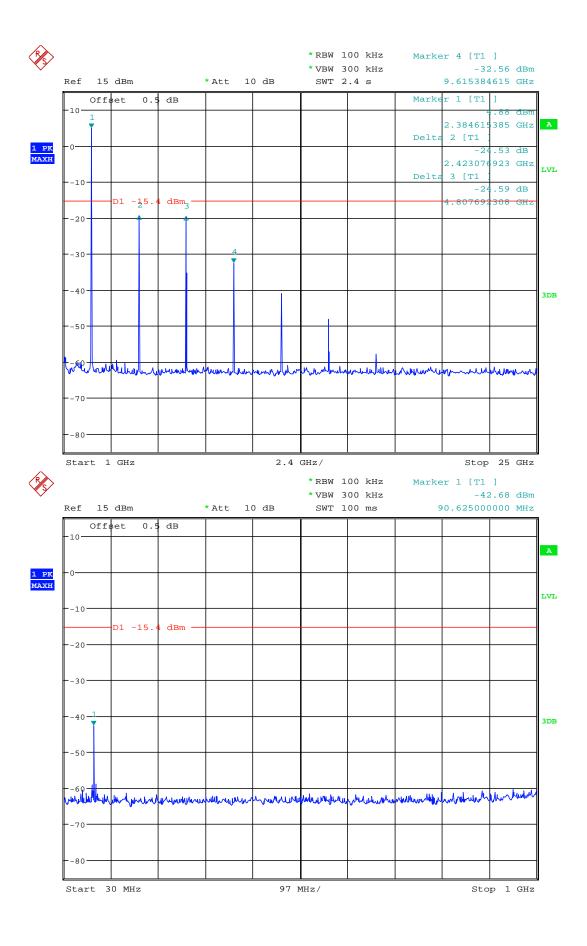
5.5. Test Result

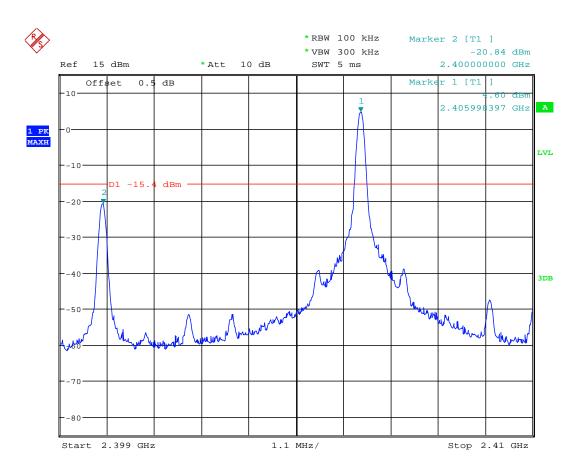
EUT: Wireless Microphone Adaptor M/N: Miclink Wireless						
EUT Set Mode	CH or Frequency	Measured Range	Result (dBm)			
		30MHz-1GHz	PASS			
	2406MHz	1GHz-25GHz	PASS			
		2.399GHz-2.4065GHz	PASS			
	2442MHz	30MHz-1GHz	PASS			
		1GHz-25GHz	PASS			
TX mode		30MHz-1GHz	PASS			
	2474MHz	1GHz-25GHz	PASS			
		2.472GHz-2.484GHz	PASS			
	Hopping on	2.39GHz-2.42GHz	PASS			
	Hopping on	2.47GHz-2.485GHz	PASS			
Test Date : 2014/03/	12	Test Engineer : Leo)			

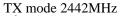
5.6. Original test data

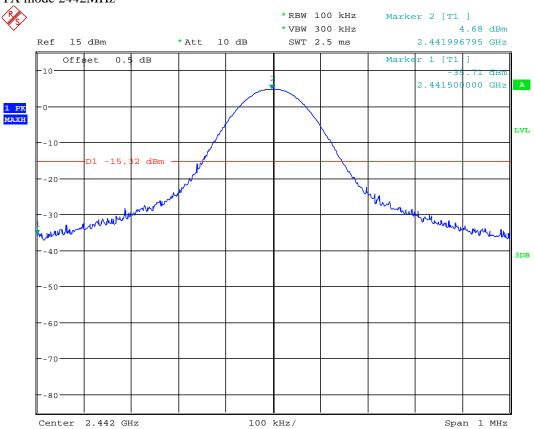


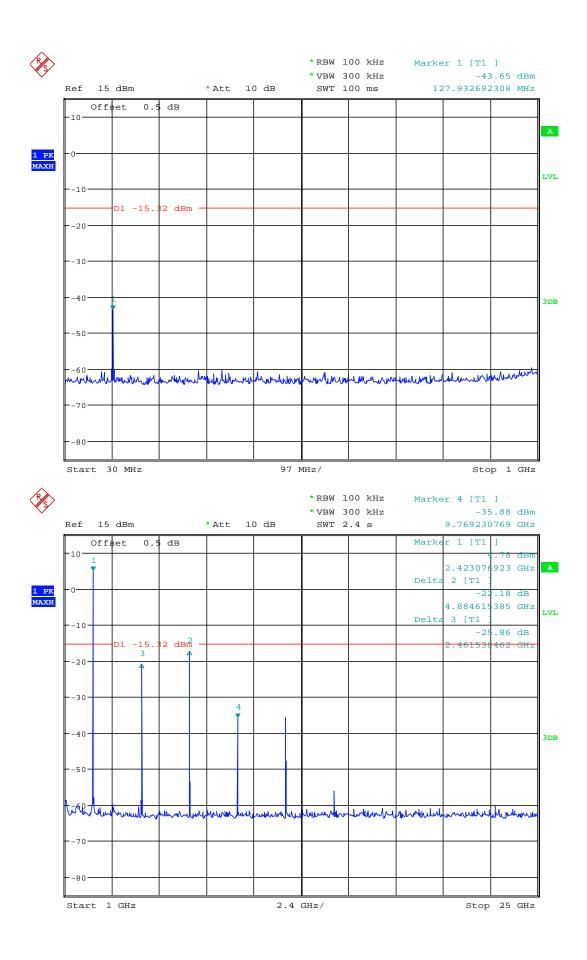


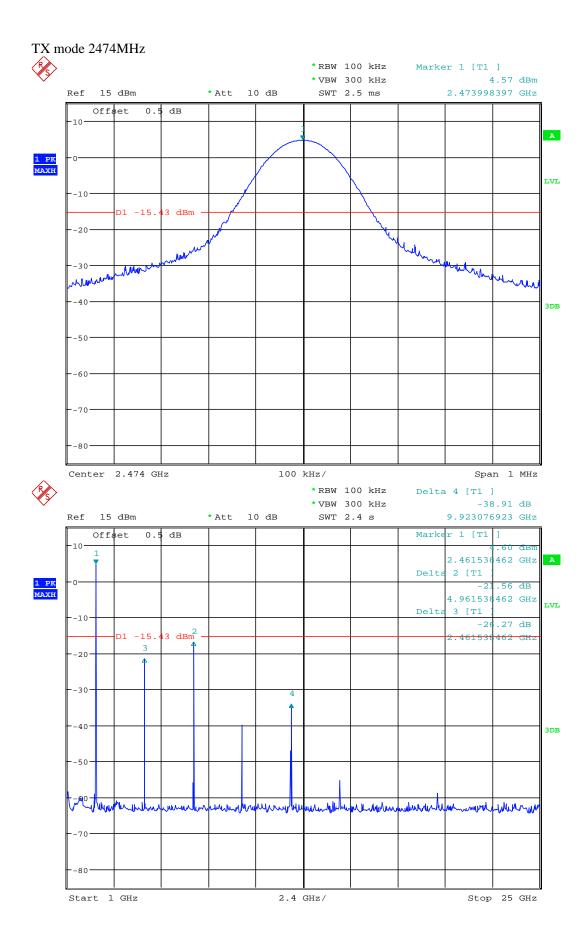


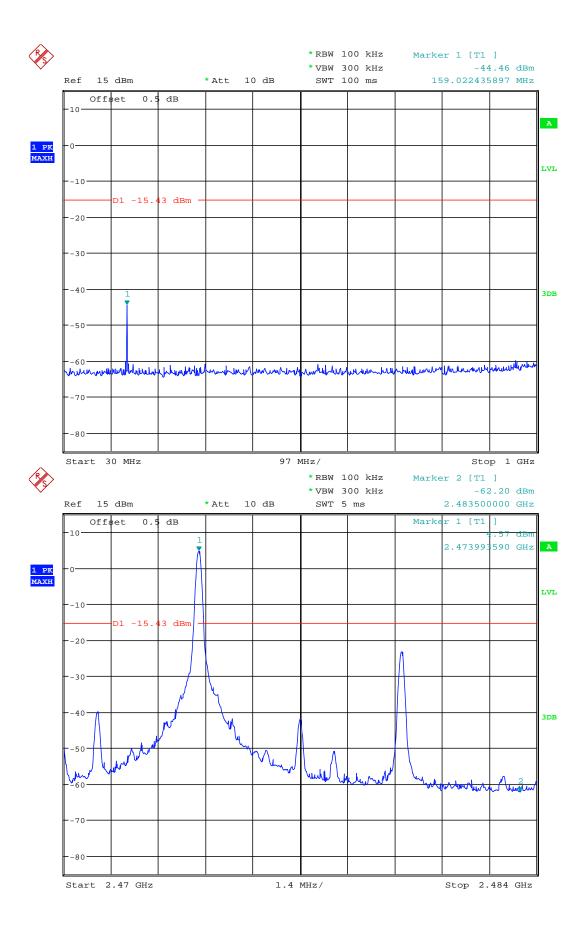




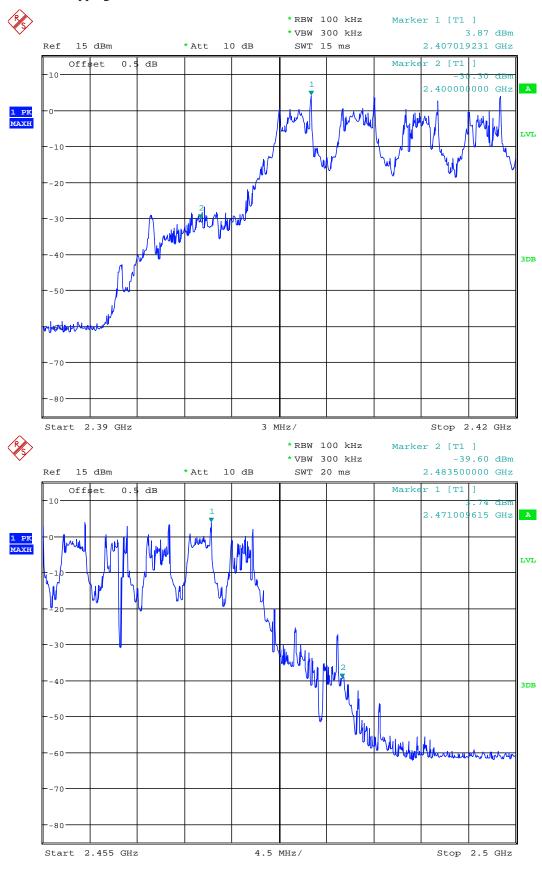








TX mode hopping on

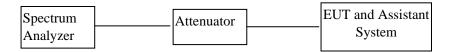


6. Carrier Frequency Separation

6.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2013/11/13	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2013/11/13	1 Year

6.2. Block diagram of test setup



6.3. Limits

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.4. Test Procedure

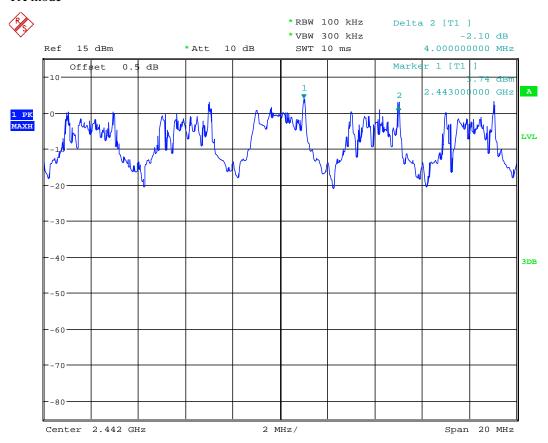
- (1) Configure EUT and assistant system according clause 2.4 and 6.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) The carrier frequency was measured by spectrum analyzer with 100 KHz RBW and 300KHz VBW.

6.5. Test Result

EUT: Wireless	Microphone Adaptor	M/N: Miclink Wirel	M/N: Miclink Wireless			
Mode	Channel separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz) 2/3 of 20dB bandwidth	Conclusion		
TX mode	4	0.099	0.066	PASS		
Test Date : 20	Test Date: 2014/03/12 Test Engineer: Leo					

6.6. Original test data



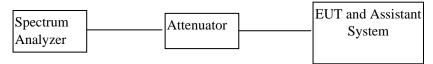


7. Number Of Hopping Channel

7.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2013/11/13	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2013/11/13	1 Year

7.2. Block diagram of test setup



7.3. Limits

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

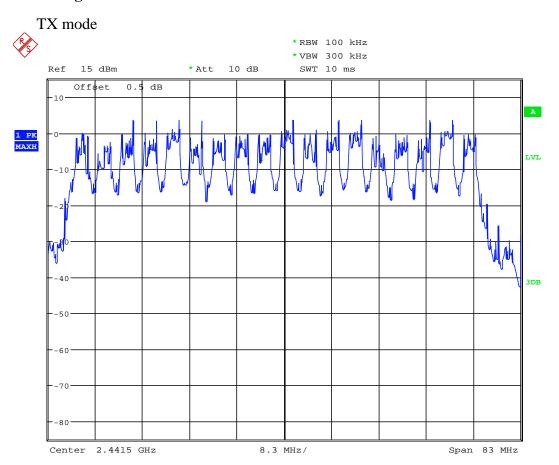
7.4. Test Procedure

- (8) Configure EUT and assistant system according clause 2.4 and 7.2
- (9) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (10)Configure EUT work in test mode as stated in clause 2.4.
- (11)The number of hopping channel was measured by spectrum analyzer with 100 kHz RBW and 300KHz VBW.

7.5. Test Result

EUT: Wireless Microphone Adaptor M/N: Miclink Wireless							
Mode	Conclusion						
Tx mode	18	>15	PASS				
Test Date : 2014/03	3/12	Test Engin	eer : Leo				

7.6. Original test data

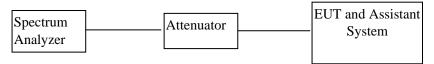


8. Dwell Time

8.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
2	Attenuator	Mini-Circuits	BW-S10W2	101109	2013/11/13	1 Year
3	RF Cable	Micable	C10-01-01-1	100309	2013/11/13	1 Year

8.2. Block diagram of test setup



8.3. Limits

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

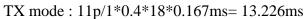
8.4. Test Procedure

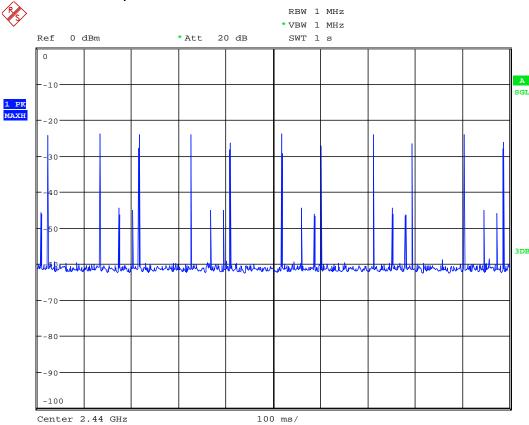
- (1) Configure EUT and assistant system according clause 2.4 and 8.2
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (3) Configure EUT work in test mode as stated in clause 2.4.
- (4) Measure the hopping number and on time of each pulse with spectrum analyzer in zero span set, and calculate dwell time with formula Dwell time = Hopping number/measure time *0.4*79*pulse's on time

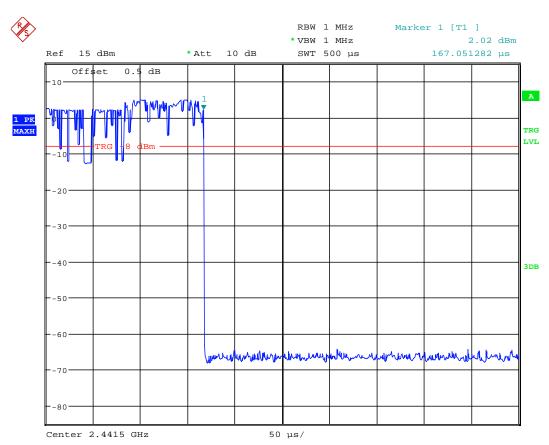
8.5. Test Result

EUT: Wireless Microphone Adaptor M/N: Miclink Wireless							
Mode	Number of hopping channel	Limit	Conclusion				
TX mode 13.226ms		<400ms	PASS				
Test Date : 2014/03	3/12	Test Engi	neer : Leo				

8.6. Original test data







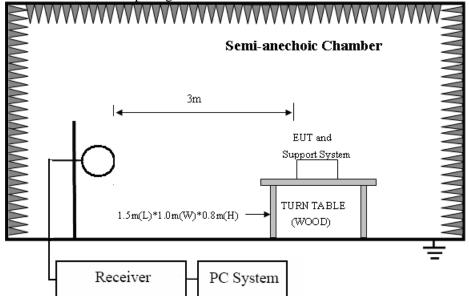
9. Radiated emission

9.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2013/11/13	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
3	Loop antenna	TESEQ	HLA6120	20129	2013/11/16	1 Year
4	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2013/11/16	1 Year
5	Double Ridged Horn Antenna	R&S	HF907	100276	2013/11/16	1 Year
6	Horn Antenna	EMCO	3116	00060095	2013/11/16	1 Year
7	Pre-Amplifier	R&S	SCU-01	10049	2013/11/13	1 Year
8	Pre-amplifier	A.H.	PAM0-0118	360	2013/11/13	1 Year
9	Pre-amplifier	A.H.	PAM-1840VH	562	2013/11/13	1 Year
10	RF Cable	R&S	R01	10403	2013/11/13	1 Year
11	RF Cable	R&S	R02	10512	2013/11/13	1 Year

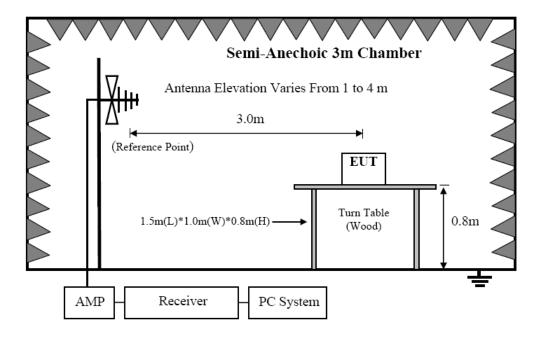
9.2. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz

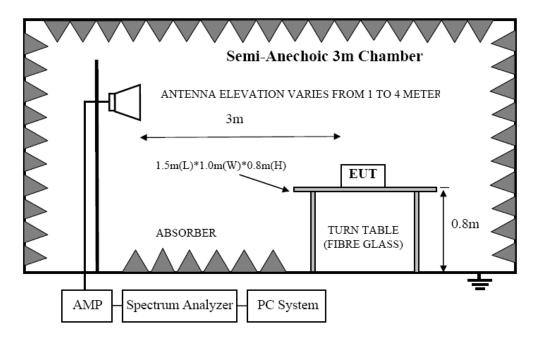


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In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

9.3. Limit

8.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

Report No: DDT-RE140363

8.3.2 FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT			
MHz	Meters	$\mu V/m$	$dB(\mu V)/m$		
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)		
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)		
1.705 ~ 30.0	30	30	29.54		
30 ~ 88	3	100	40.0		
88 ~ 216	3	150	43.5		
216 ~ 960	3	200	46.0		
960 ~ 1000	3	500	54.0		
Above 1000	3	$74.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Peak)}$ $54.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Average)}$			

Note: (1)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

 $Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$

8.3.3 Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.4. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic

chamber.

(2) Setup EUT and assistant system according clause 2.4 and 9.2

(3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Report No: DDT-RE140363

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Trilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2009 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - © Change modulation type of device if practicable.
 - (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2009 on Radiated Emission test.
- (6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also

be measured and need comply with Peak limit.

(7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Report No: DDT-RE140363

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10:2009 clause 4.2.3.2.3 procedure for average measure).

9.5. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9KHz to 25GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so the final test was performed with frequency range from 30MHz to 18GHz and recorded in below.

Note2: For emissions below 1GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1GHz, the final test was only performed with EUT working in Tx 2442MHz mode.

Note3: For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RE.EM6

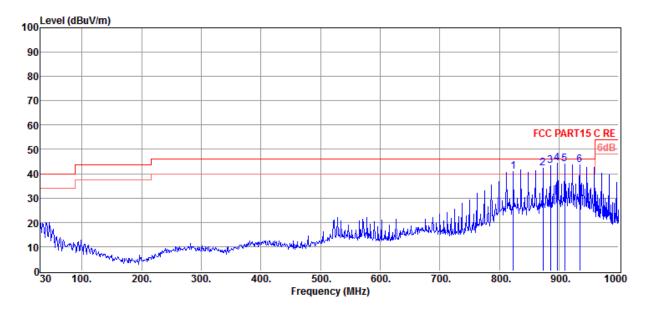
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Condition : Temp:24.5'C,Humi:55%,
: R 100.11 R Antenna/Distance : 2013 VULB9163/3m/HORIZONTAL

Press:100.1kPa

Memo :

Data: 3



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	823.46	57.78	20.47	42.02	4.58	40.81	46.00	-5.19	QP	HORIZONTAL
2	872.93	60.22	19.47	42.08	4.72	42.33	46.00	-3.67	QP	HORIZONTAL
3	885.54	60.39	20.30	42.09	4.77	43.37	46.00	-2.63	QP	HORIZONTAL
4	897.18	60.33	21.40	42.10	4.80	44.43	46.00	-1.57	QP	HORIZONTAL
5	909.79	58.95	22.27	42.03	4.83	44.02	46.00	-1.98	QP	HORIZONTAL
6	935.01	58.34	22.47	41.90	4.90	43.81	46.00	-2.19	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

- 2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit
- 3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RE.EM6

Test Date : 2014-03-10 Tested By : Leo

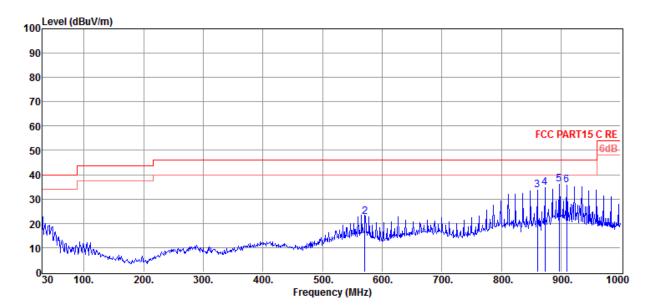
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Condition Temp:24.5'C, Humi:55%,

Condition : Temp. 24.3 C, Humi. 3570, Press: 100.1kPa : Antenna/Distance : 2013 VULB9163/3m/VERTICAL

Memo :

Data: 4



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	30.00	41.99	13.50	37.64	0.77	18.62	40.00	-21.38	QP	VERTICAL
2	571.26	43.89	16.82	41.93	3.75	22.53	46.00	-23.47	QP	VERTICAL
3	860.32	51.77	19.20	42.06	4.69	33.60	46.00	-12.40	QP	VERTICAL
4	872.93	52.51	19.47	42.08	4.72	34.62	46.00	-11.38	QP	VERTICAL
5	897.18	51.92	21.40	42.10	4.80	36.02	46.00	-9.98	QP	VERTICAL
6	909.79	50.67	22.27	42.03	4.83	35.74	46.00	-10.26	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

- 2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit
- 3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

Report No: DDT-RE140363

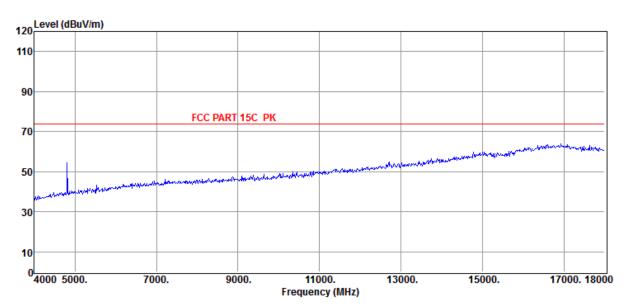
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2406MHz

Memo :

Data: 1



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	$(dB\mu V/m)$	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

3. Test setup: RBW: 1MHz, VBW: 3MHz, Sweep time:auto

Report No: DDT-RE140363

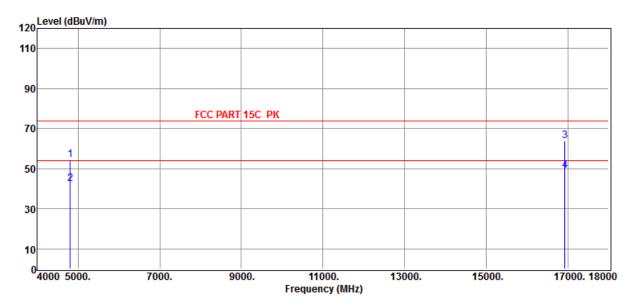
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 2



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	4812.00	51.43	35.40	44.37	12.07	54.53	74.00	-19.47	Peak	HORIZONTAL
2	4812.00	39.24	35.40	44.37	12.07	42.34	54.00	-11.66	Average	HORIZONTAL
3	16922.00	35.25	43.61	40.37	25.60	64.09	74.00	-9.91	Peak	HORIZONTAL
4	16922.00	20.13	43.61	40.37	25.60	48.97	54.00	-5.03	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

3. Test setup: RBW: 1MHz, VBW: 3MHz, Sweep time:auto

Report No: DDT-RE140363

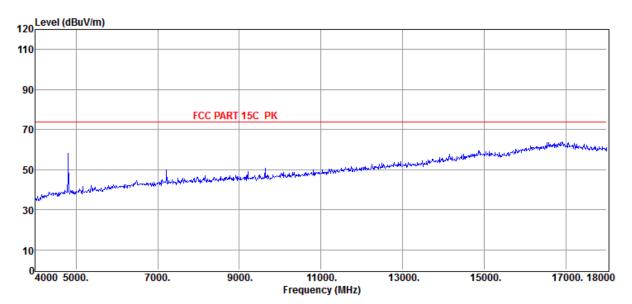
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 3



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	$(dB\mu V/m)$	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

3. Test setup: RBW: 1MHz, VBW: 3MHz, Sweep time:auto

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

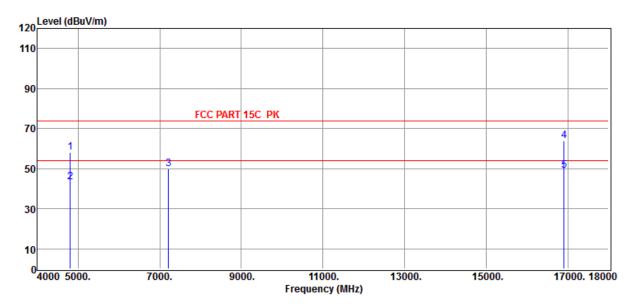
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2406MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 4



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	4812.00	55.06	35.40	44.37	12.07	58.16	74.00	-15.84	Peak	VERTICAL
2	4812.00	40.25	35.40	44.37	12.07	43.35	54.00	-10.65	Average	VERTICAL
3	7220.00	41.79	37.23	44.11	15.18	50.09	74.00	-23.91	Peak	VERTICAL
4	16908.00	35.22	43.62	40.36	25.60	64.08	74.00	-9.92	Peak	VERTICAL
5	16908.00	20.10	43.62	40.36	25.60	48.96	54.00	-5.04	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

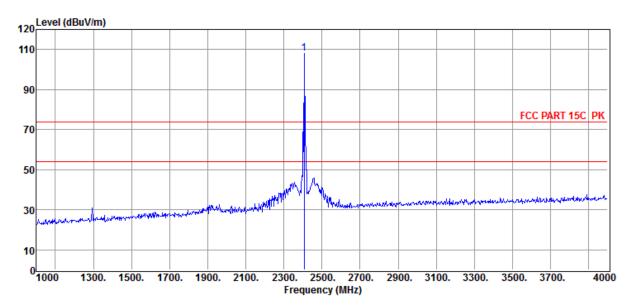
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2406MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 5



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2406.00	113.58	30.04	43.85	8.35	108.12	/	/	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

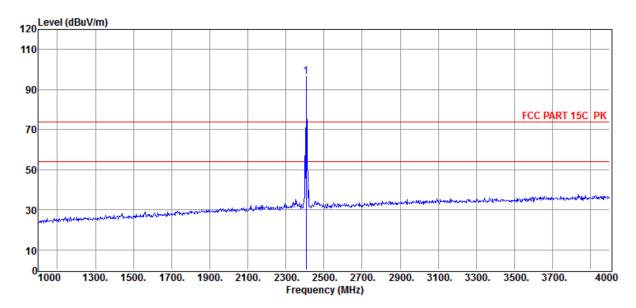
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2406MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 6



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2406.00	101.93	30.04	43.85	8.35	96.47	/	/	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

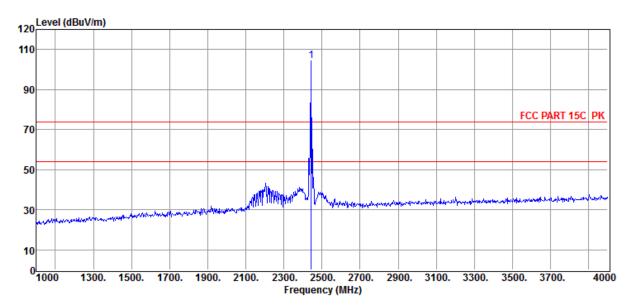
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 9



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2442.00	109.66	30.14	43.87	8.40	104.33	/	/	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

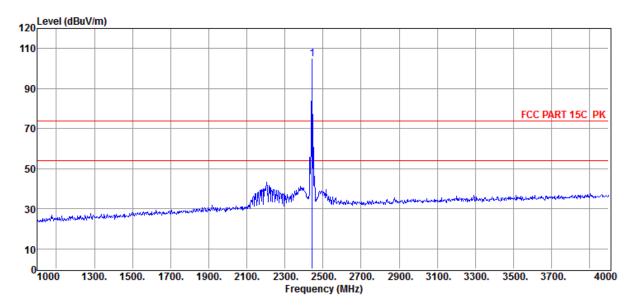
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 10



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2442.00	109.98	30.14	43.87	8.40	104.65	/	/	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

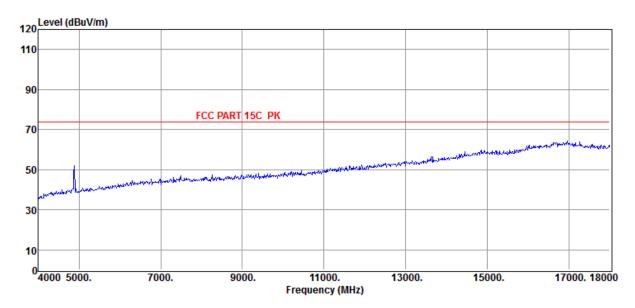
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 11



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

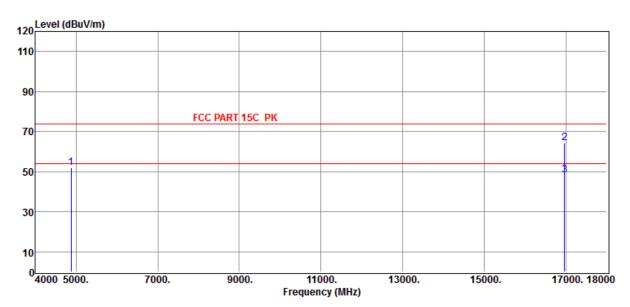
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 12



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
(Mark)	(MHz)	Level (dBµV)	Factor (dB/m)	Factor dB	Loss dB	Level (dBuV/m)	Line (dBuV/m)	Limit (dB)		
1	4884.00	48.70	35.51	44.35	12.04	51.90	74.00	-22.10	Peak	HORIZONTAL
2	16964.00	35.42	43.61	40.39	25.60	64.24	74.00	-9.76	Peak	HORIZONTAL
3	16964.00	19.25	43.61	40.39	25.60	48.07	54.00	-5.93	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

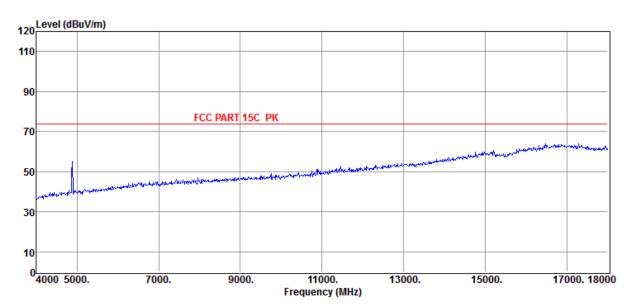
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 13



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	(dBµV/m)	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

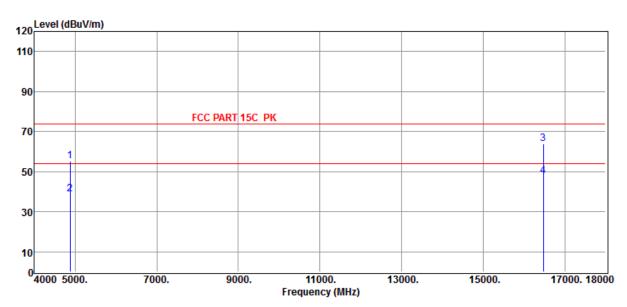
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2442MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 14



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	4884.00	52.17	35.51	44.35	12.04	55.37	74.00	-18.63	Peak	VERTICAL
2	4884.00	35.49	35.51	44.35	12.04	38.69	54.00	-15.31	Average	VERTICAL
3	16474.00	35.97	43.66	40.22	24.40	63.81	74.00	-10.19	Peak	VERTICAL
4	16474.00	20.13	43.66	40.22	24.40	47.97	54.00	-6.03	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

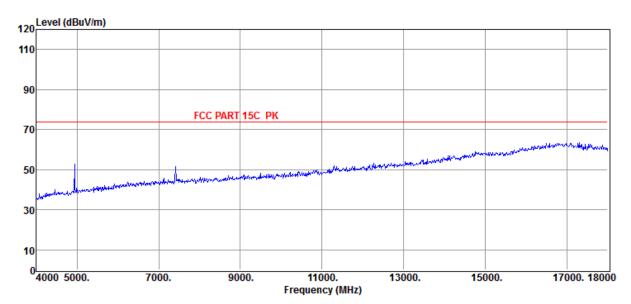
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 15



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	$(dB\mu V/m)$	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

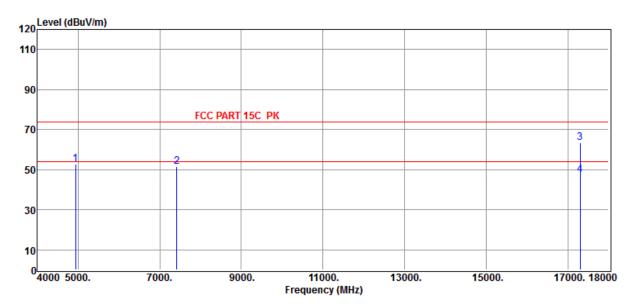
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 16



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	4948.00	49.65	35.62	44.32	12.02	52.97	74.00	-21.03	Peak	VERTICAL
2	7422.00	42.93	37.35	44.04	15.46	51.70	74.00	-22.30	Peak	VERTICAL
3	17300.00	35.39	43.12	40.52	25.33	63.32	74.00	-10.68	Peak	VERTICAL
4	17300.00	19.36	43.12	40.52	25.33	47.29	54.00	-6.71	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

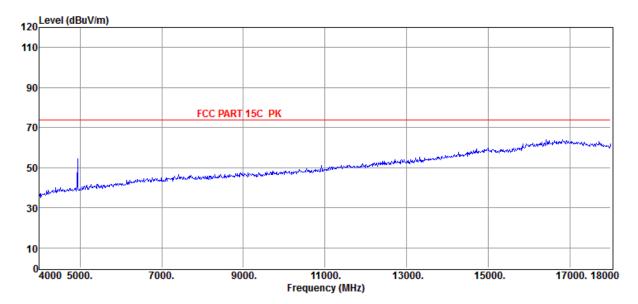
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 17



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	(dBµV/m)	(dB)		

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

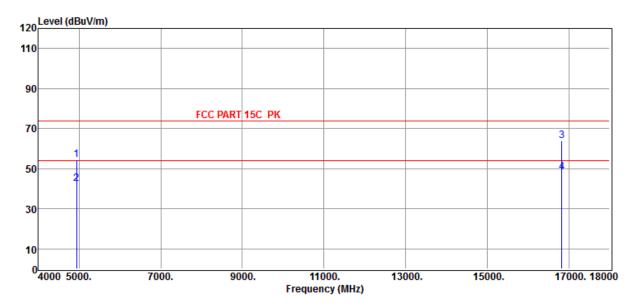
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 18



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	4948.00	51.19	35.62	44.32	12.02	54.51	74.00	-19.49	Peak	HORIZONTAL
2	4948.00	39.26	35.62	44.32	12.02	42.58	54.00	-11.42	Average	HORIZONTAL
3	16824.00	35.69	43.63	40.33	25.00	63.99	74.00	-10.01	Peak	HORIZONTAL
4	16824.00	20.03	43.63	40.33	25.00	48.33	54.00	-5.67	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

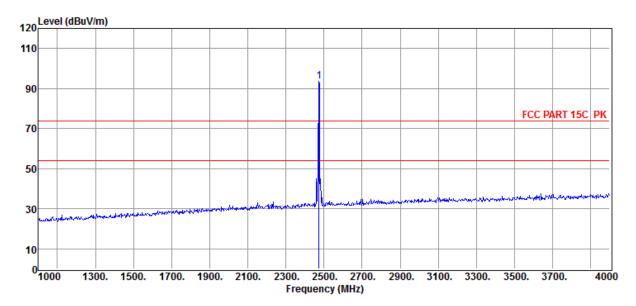
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 19



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2474.00	98.71	30.25	43.88	8.45	93.53	/	/	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

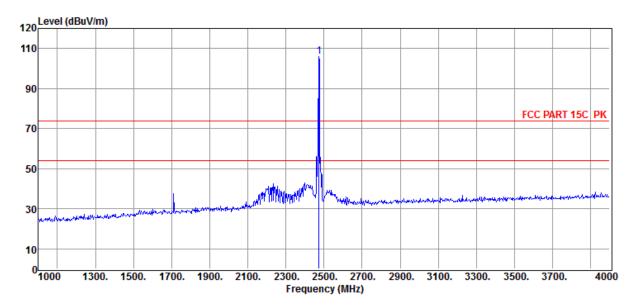
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 20



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2474.00	111.14	30.25	43.88	8.45	105.96	/	/	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

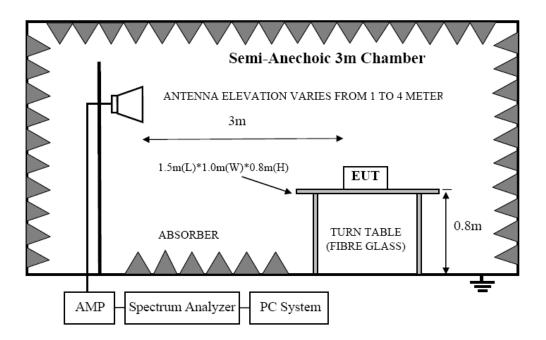
2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

10. Band Edge Compliance

10.1. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	R&S	ESU8	100316	2013/11/13	1 Year
2	Spectrum analyzer	R&S	FSU	1166.1660.26	2013/11/13	1 Year
3	Trilog Broadband Antenna	Schwarzbeck	VULB9163	9163-462	2013/11/16	1 Year
4	Double Ridged Horn Antenna	R&S	HF907	100276	2013/11/16	1 Year
5	Pre-Amplifier	R&S	SCU-01	10049	2013/11/13	1 Year
6	Pre-amplifier	A.H.	PAM0-0118	360	2013/11/13	1 Year
7	RF Cable	R&S	R01	10403	2013/11/13	1 Year
8	RF Cable	R&S	R02	10512	2013/11/13	1 Year

10.2. Block diagram of test setup



10.3. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz and 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

Report No: DDT-RE140363

10.4. Test Procedure

Same with clause 8.4 except change investigated frequency range from 2300MHz to 2408MHz and 2470MHz to 2500MHz.

Report No: DDT-RE140363

10.5. Test result

PASS. (See below detailed test result)

Report No: DDT-RE140363

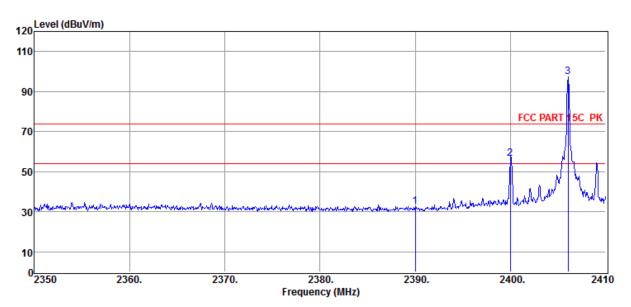
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 7



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2390.02	38.06	29.99	43.84	8.35	32.56	74.00	-41.44	Peak	HORIZONTAL
2	2400.00	61.94	29.99	43.84	8.35	56.44	74.00	-17.56	Peak	HORIZONTAL
3	2406.04	102.66	30.04	43.85	8.35	97.20	/	/	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

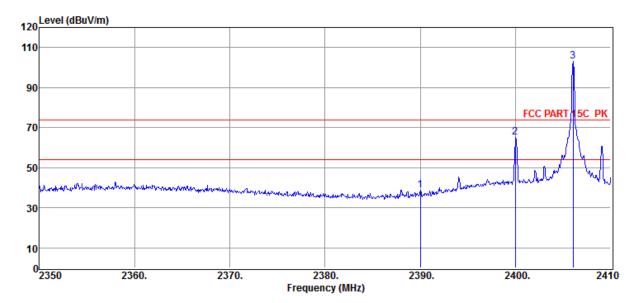
Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 8



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2390.00	44.10	29.99	43.84	8.35	38.60	74.00	-35.40	Peak	VERTICAL
2	2400.00	70.50	29.99	43.84	8.35	65.00	74.00	-9.00	Peak	VERTICAL
3	2406.04	108.54	30.04	43.85	8.35	103.08	/	/	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

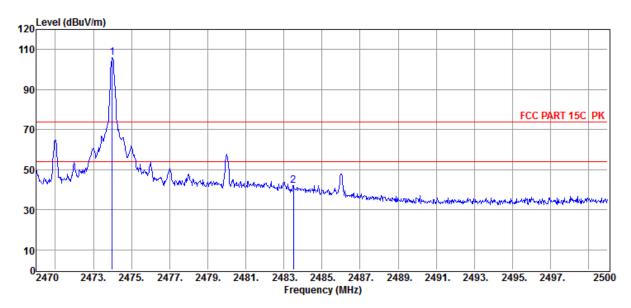
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \mbox{'C,Humi:55\%,} \\ Press: 100.1 \mbox{kPa} \end{array} & & \textbf{Antenna/Distance} & : 2013 \mbox{ HF907/3m/VERTICAL} \end{array}$

Memo :

Data: 21



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2473.99	111.10	30.25	43.88	8.45	105.92	/	/	Peak	VERTICAL
2	2483.50	47.37	30.25	43.89	8.50	42.23	74.00	-31.77	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

Report No: DDT-RE140363

Test Site : DDT 3m Chamber E:\2014 Report Data\QD140190\RXRF.EM6

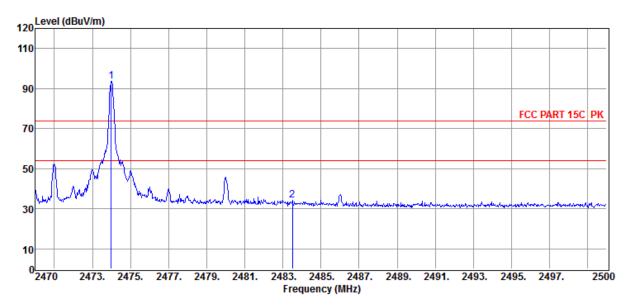
EUT : Wireless Microphone Adaptor Model Number : Miclink Wireless

Power Supply: DC 3V **Test Mode**: Tx mode 2474MHz

 $\begin{array}{lll} \textbf{Condition} & : \begin{array}{lll} Temp: 24.5 \\ C, Humi: 55\%, \\ Press: 100.1 \\ kPa \end{array} & \textbf{Antenna/Distance} & : 2013 \\ HF907/3m/HORIZONTAL \end{array}$

Memo :

Data: 22



Item	Freq	Read	Antenna	PRM	Cable	Result	Limit	Over	Detector	Polarization
		Level	Factor	Factor	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)		
1	2473.99	98.84	30.25	43.88	8.45	93.66	/	/	Peak	HORIZONTAL
2	2483.50	39.22	30.25	43.89	8.50	34.08	74.00	-39.92	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor

2. If Peak Result comply with AV limit, AV Result is deemed to comply with AV limit

11. Power Line Conducted Emission

Test Result: Not Applicable

Remark: This product can not be connected into public power supply.

12. Antenna Requirements

12.1. Limit

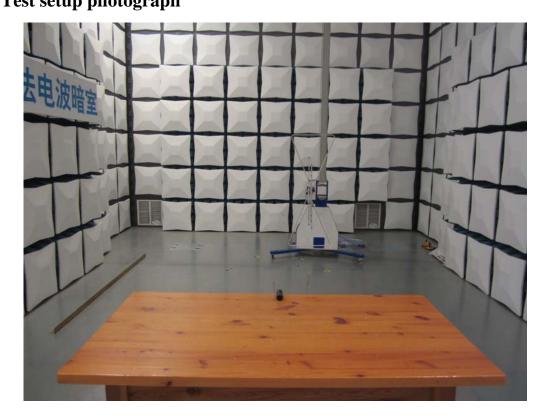
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2. Result

The antennas used for this product are built-in Rufa 2.4GHz SMD Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.1dBi.

Report No: DDT-RE140363

13. Test setup photograph





Report No: DDT-RE140363





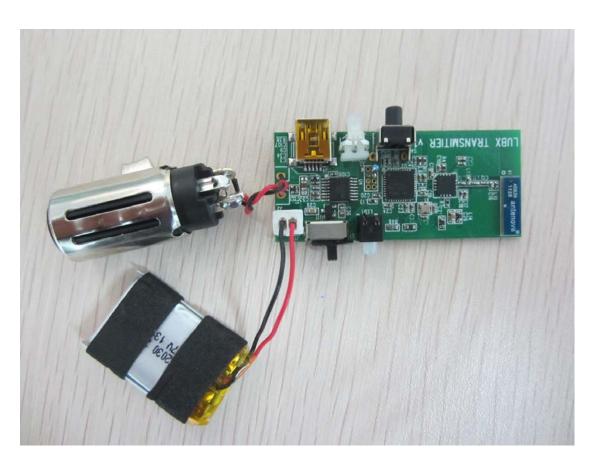
Report No: DDT-RE140363

14. Photos of the EUT

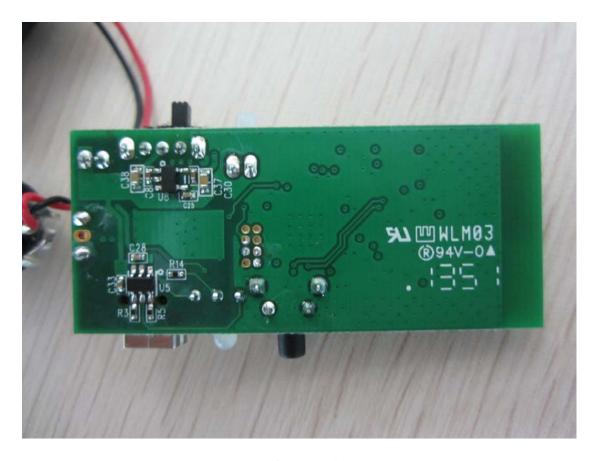












END OF REPORT