

TEST REPORT

FCC ID: 2ALPZ- AA00277W

Product: Handsfree car kit with FM Transmitter

Model No.: AA00277W

Additional Model: AA00277G

Trade Mark: N/A

Report No.: TCT170331E032

Issued Date: Apr. 14, 2017

Issued for:

**DONGGUAN CIAOTOU XINHONG ELECTRONICS FACTORY
No.7, YIN HO 2ND ROAD, SHI SHUI KOU VILLAGE, CHIAOTOU TOWN, DONG
GUAN CITY, GUANG DONG, CHINA**

Issued By:

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1. Test Certification

Product:	Handsfree car kit with FM Transmitter
Model No.:	AA00277W
Additional Model No.:	AA00277G
Applicant:	DONGGUAN CIAOTOU XINHONG ELECTRONICS FACTORY
Address:	No.7, YIN HO 2ND ROAD, SHI SHUI KOU VILLAGE, CHIAOTOU TOWN, DONG GUAN CITY, GUANG DONG, CHINA
Manufacturer:	DONGGUAN CIAOTOU XINHONG ELECTRONICS FACTORY
Address:	No.7, YIN HO 2ND ROAD, SHI SHUI KOU VILLAGE, CHIAOTOU TOWN, DONG GUAN CITY, GUANG DONG, CHINA
Date of Test:	Apr. 01 –Apr. 13, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.239

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Ride cheng

Ride Cheng

Date:

Apr. 13, 2017

Reviewed By:

Joe Zhou

Joe Zhou

Date:

Apr. 14, 2017

Approved By:

Tomsin

Tomsin

Date:

Apr. 14, 2017

2. Test Result Summary

Requirement	CFR 47 Section IC Paragraph	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field strength of the fundamental signal	§15.239 (b)	PASS
Spurious emissions	§15.239 (b) (c)/ §15.209	PASS
Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Handsfree car kit with FM Transmitter
Model :	AA00277W
Additional Model:	AA00277G
Trade Mark:	N/A
Operation Frequency:	88.1-107.9MHz
Channel Separation:	100 kHz
Number of Channel:	199CH (See NOTE 2)
Modulation Technology:	FM
Antenna Type:	Wire Antenna
Antenna Gain:	2dBi
Power Supply:	DC 12V/DC 24V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	88.1 MHz	104	97.9 MHz	202	107.7 MHz
2	88.2 MHz	105	98.0 MHz	203	107.8 MHz
3	88.3 MHz	106	98.1 MHz	204	107.9 MHz
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Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	88.1MHz
The middle channel	98.0MHz
The Highest channel	107.9MHz

4. General Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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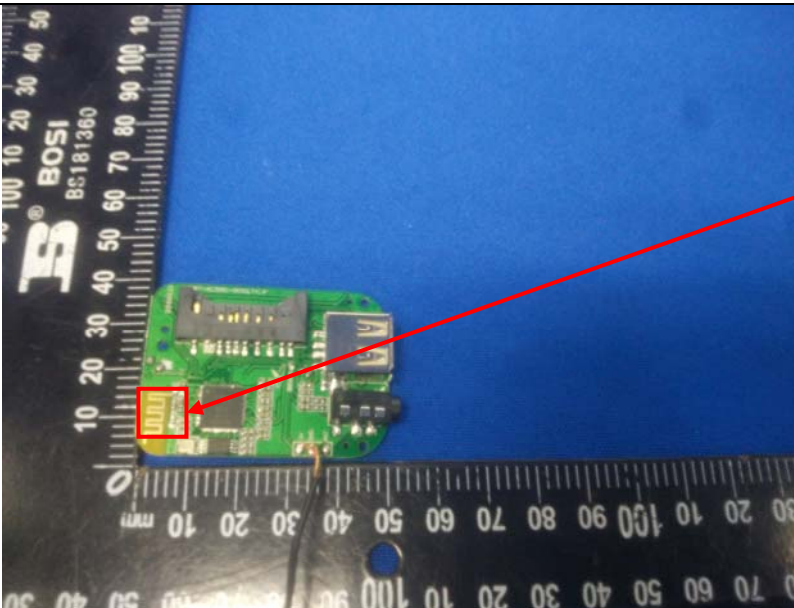
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The FM antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 2dBi.	
	

6.2. Conducted Emission

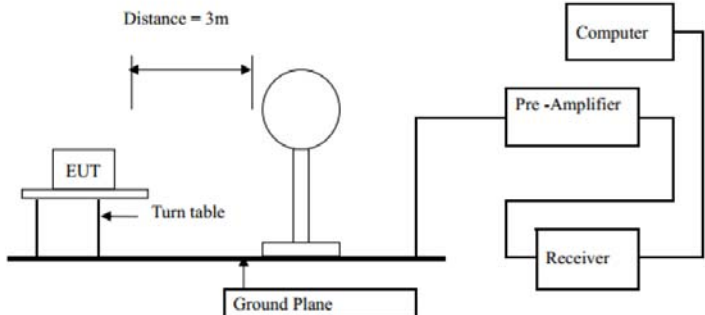
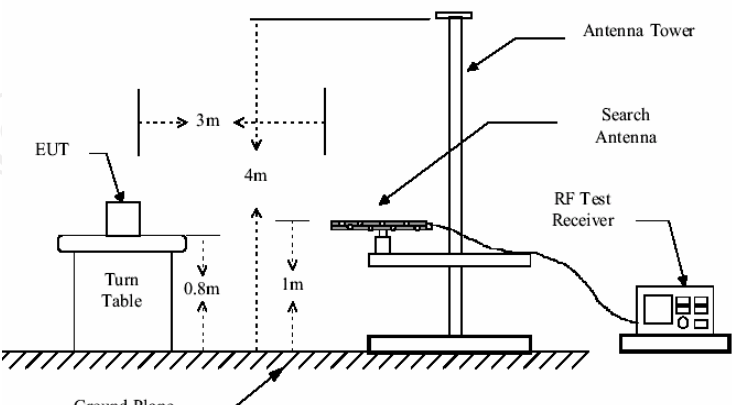
6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm 80cm LISN AUX Equipment E.U.T. Test table/Insulation plane Filter AC power EMI Receiver Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Refer to section 4.1 for details														
Test Procedure:	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.														
Test Result:	The EUT is powered by car's power DC 12V/DC 24V, So not applicable.														

6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Frequency Range:	9 kHz to 1 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Limit(Field strength of the fundamental signal):	Frequency		Limit (dBuV/m @3m)		Remark
	88-108MHz		48		Average Value
			68		Peak Value
	Note: Fcc part15.239 (b) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 for limiting peak emissions apply.				
Limit(Spurious Emissions):	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and				

	vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test setup:	For radiated emissions below 30MHz  30MHz to 1GHz 
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Aug. 11, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Aug. 11, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Aug. 11, 2017
Pre-amplifier	HP	8447D	2727A05017	Aug. 11, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Aug. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Aug. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Aug. 13, 2017
Coax cable (9kHz-40GHz)	TCT	N/A	N/A	Aug. 12, 2017
Coax cable (9kHz-40GHz)	TCT	N/A	N/A	Aug. 12, 2017
Coax cable (9kHz-40GHz)	TCT	N/A	N/A	Aug. 12, 2017
Coax cable (9kHz-40GHz)	TCT	N/A	N/A	Aug. 12, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
88.1	37.36(AV)	H	48	-8.56
88.1	39.44(PK)	H	68	-28.56
88.1	35.20(AV)	V	48	-8.33
88.1	37.67(PK)	V	68	-28.33

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
98.0	52.10(AV)	H	48	6.14
98.0	54.14 (PK)	H	68	-13.86
98.0	50.12(AV)	V	48	7.27
98.0	52.27(PK)	V	68	-12.73

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
107.9	43.75(AV)	H	48	-2.2
107.9	45.8(PK)	H	68	-22.2
107.9	41.64(AV)	V	48	-2.45
107.9	43.55(PK)	V	68	-22.45

Spurious Emissions

Frequency Range (9 kHz-30MHz)

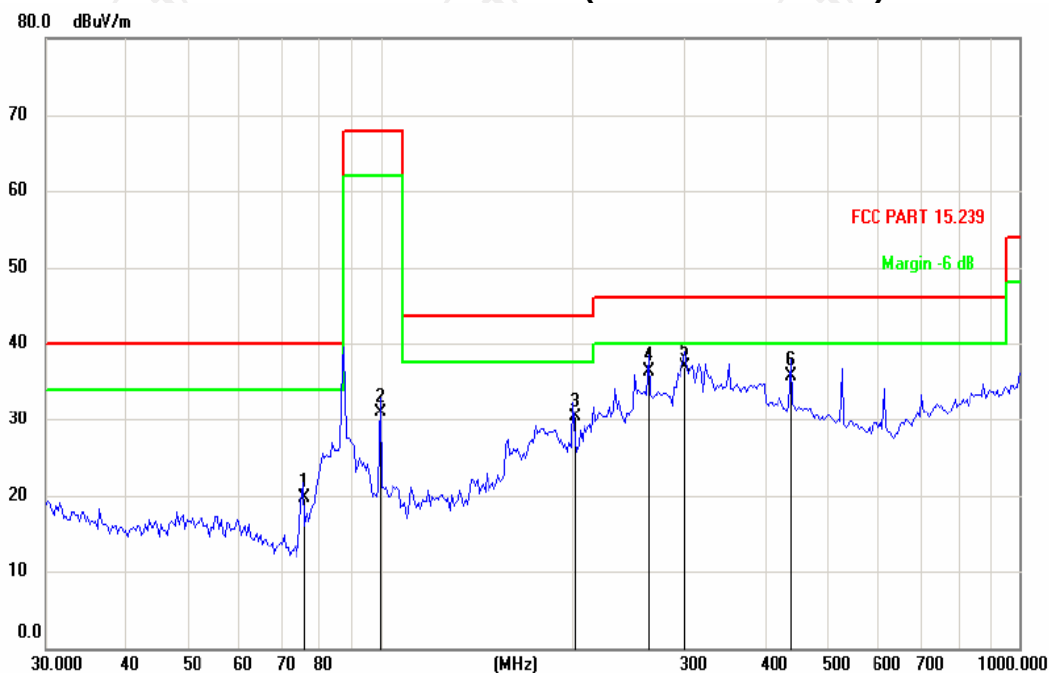
Frequency (MHz)	Level@3m (dBuV/m)	Limit@3m (dBuV/m)
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

88.1MHz

Radiated Emission In Horizontal (30MHz----1000MHz)



Site: Polarization: **Horizontal** Temperature: 25
 Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		75.8520	36.10	-16.41	19.69	40.00	-20.31	QP		
2		99.7676	42.40	-11.47	30.93	68.00	-37.07	QP		
3		200.0432	41.90	-11.67	30.23	43.50	-13.27	QP		
4		263.1154	45.90	-9.51	36.39	46.00	-9.61	QP		
5	*	300.6988	45.20	-8.25	36.95	46.00	-9.05	QP		
6		439.4730	40.70	-4.92	35.78	46.00	-10.22	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

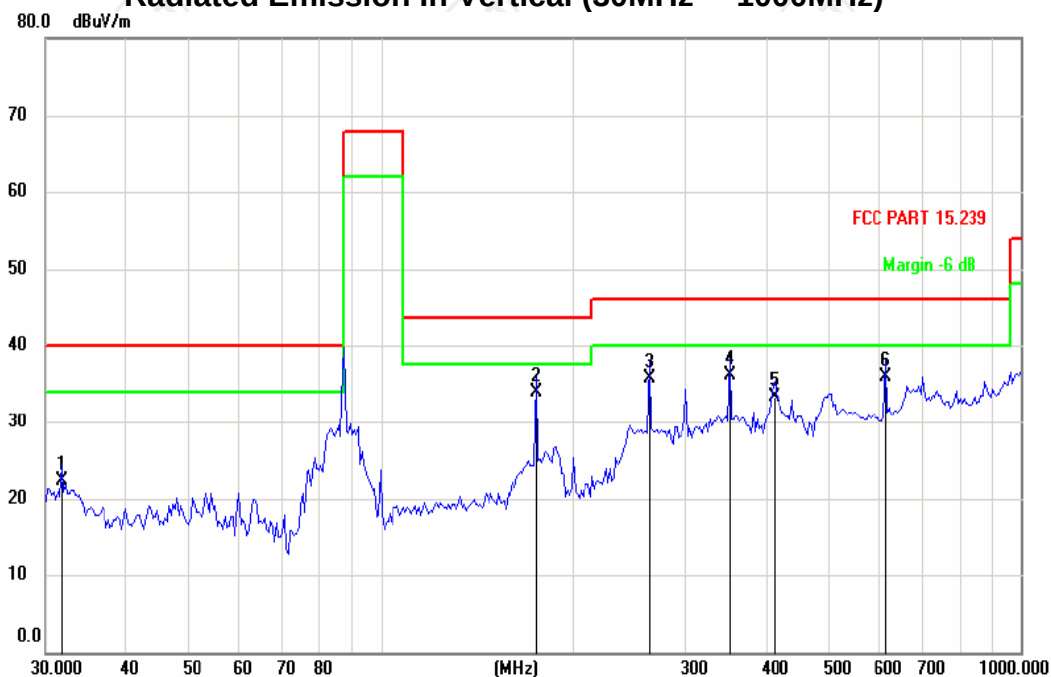
Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

Radiated Emission In Vertical (30MHz----1000MHz)



Site: Polarization: **Vertical** Temperature: 25
Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit	Over	Antenna Height	Table Degree	Comment
1		31.7347	35.90	-13.51	22.39					
2	*	175.0404	47.30	-13.41	33.89					
3		263.1154	45.30	-9.51	35.79					
4		350.9721	43.40	-7.20	36.20	46.00	-9.80	QP		
5		412.5394	39.10	-5.78	33.32	46.00	-12.68	QP		
6		615.7743	37.60	-1.60	36.00	46.00	-10.00	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

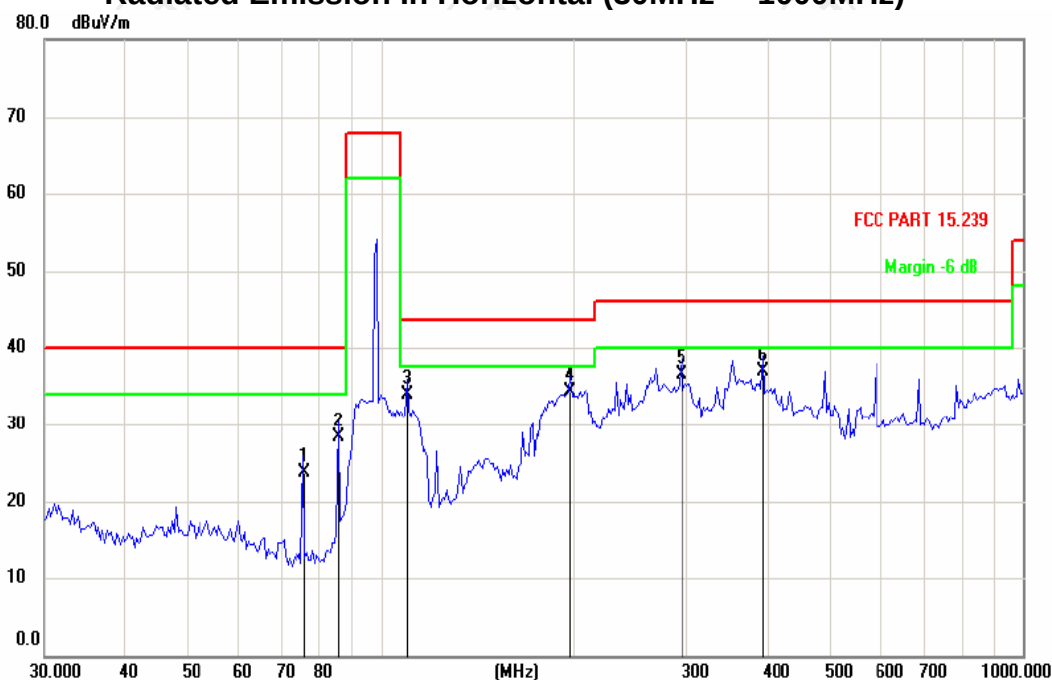
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

98.0MHz

Radiated Emission In Horizontal (30MHz----1000MHz)



Site: Polarization: **Horizontal** Temperature: 25
Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		75.8520	40.20	-16.41	23.79	40.00	-16.21	QP		
2		86.0794	42.60	-14.31	28.29	40.00	-11.71	QP		
3		110.0818	45.90	-12.01	33.89	43.50	-9.61	QP		
4		197.2512	46.10	-11.86	34.24	43.50	-9.26	QP		
5		294.4259	45.00	-8.44	36.56	46.00	-9.44	QP		
6	*	392.7375	43.20	-6.34	36.86	46.00	-9.14	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

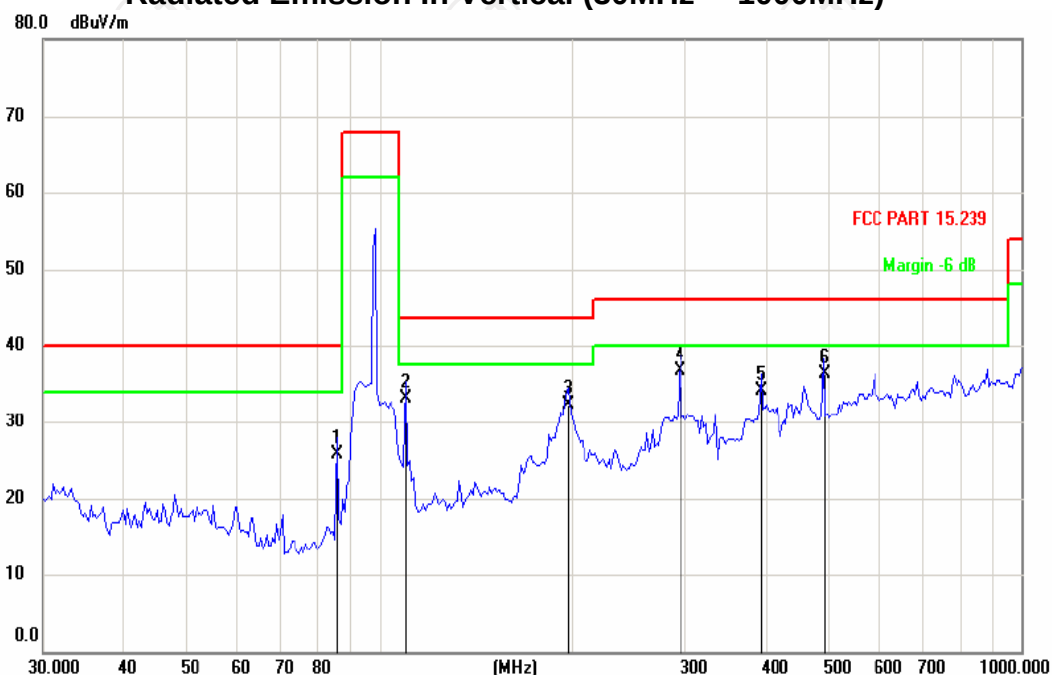
Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

Radiated Emission In Vertical (30MHz----1000MHz)



Site: Polarization: **Vertical** Temperature: 25
Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		86.0794	40.10	-14.31	25.79	40.00	-14.21	QP		
2		110.0818	45.20	-12.01	33.19	43.50	-10.31	QP		
3		197.2512	44.20	-11.86	32.34	43.50	-11.16	QP		
4	*	294.4259	45.10	-8.44	36.66	46.00	-9.34	QP		
5		392.7375	40.50	-6.34	34.16	46.00	-11.84	QP		
6		491.7700	39.50	-3.24	36.26	46.00	-9.74	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

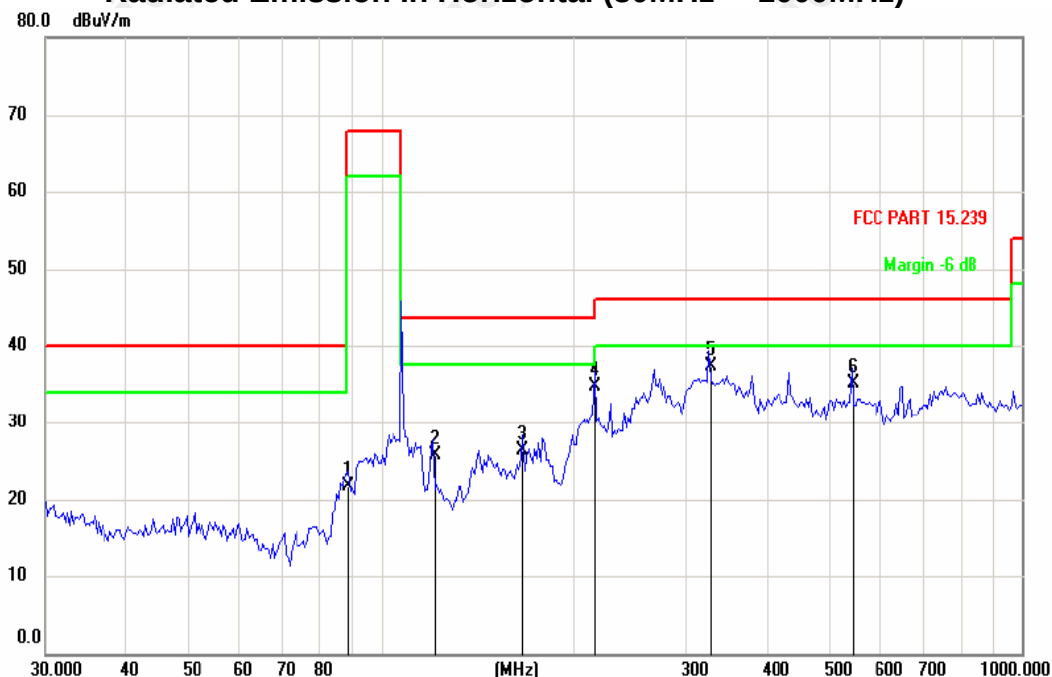
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

107.9MHz

Radiated Emission In Horizontal (30MHz----1000MHz)



Site: Polarization: **Horizontal** Temperature: 25
Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		89.1577	34.90	-13.27	21.63	68.00	-46.37	QP		
2		120.6118	39.50	-13.74	25.76	43.50	-17.74	QP		
3		166.6382	40.30	-14.00	26.30	43.50	-17.20	QP		
4		216.1194	45.90	-11.12	34.78	46.00	-11.22	QP		
5	*	324.8645	45.00	-7.74	37.26	46.00	-8.74	QP		
6		542.6104	37.70	-2.53	35.17	46.00	-10.83	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

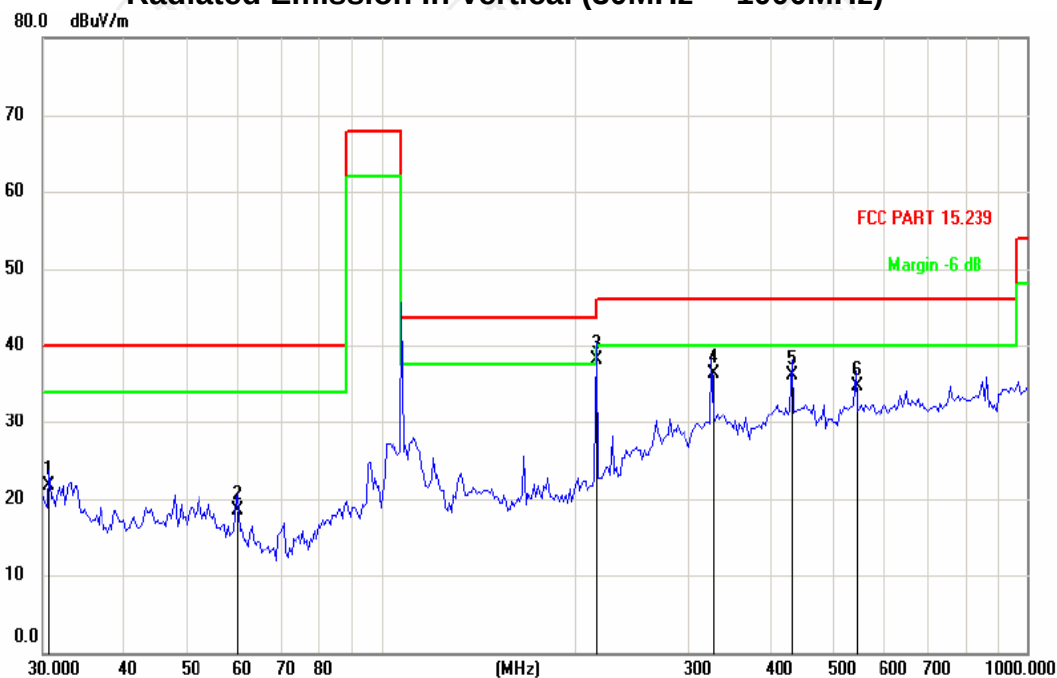
Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) - Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

Radiated Emission In Vertical (30MHz----1000MHz)



Site: Polarization: **Vertical** Temperature: 25
Limit: FCC PART 15.239 Power: DC 5V Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.6388	35.30	-13.64	21.66	40.00	-18.34	QP		
2		60.1527	31.40	-12.87	18.53	40.00	-21.47	QP		
3	*	216.1194	49.30	-11.12	38.18	46.00	-7.82	QP		
4		324.8645	44.10	-7.74	36.36	46.00	-9.64	QP		
5		433.3396	41.20	-5.12	36.08	46.00	-9.92	QP		
6		542.6104	37.20	-2.53	34.67	46.00	-11.33	QP		

Note :

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the test frequency range

6.4. 20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	200kHz
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; $RBW \geq 1\%$ of the 20 dB bandwidth; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 The diagram shows a Spectrum Analyzer (represented by a green box with a screen) connected to an EUT (represented by a yellow box) via a cable. The Spectrum Analyzer is labeled 'Spectrum Analyzer' and the EUT is labeled 'EUT'.
Test Mode:	Refer to section 4.1 for details
Test results:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Aug. 11, 2017

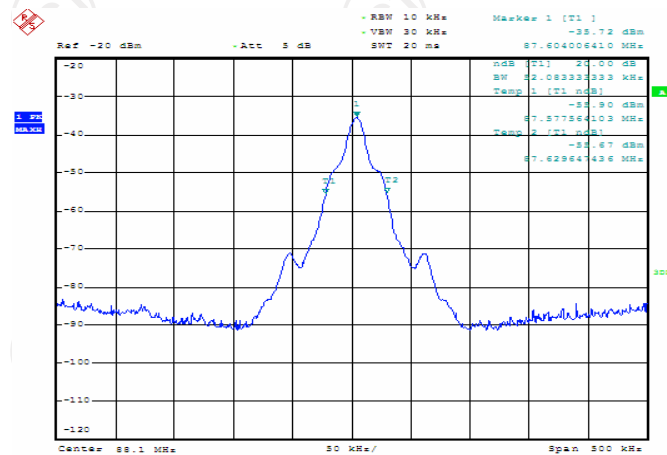
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
Lowest	52.08	200	PASS
Middle	52.08	200	PASS
Highest	52.08	200	PASS

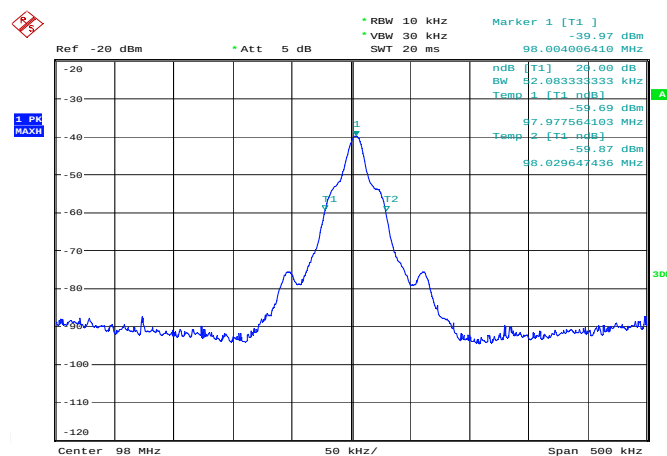
Test plots as follows:

Lowest channel



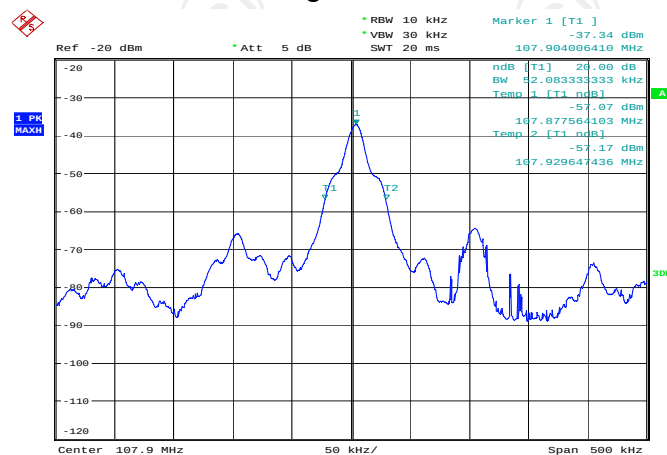
Date: 11.APR.2017 21:05:49

Middle channel



Date: 11.APR.2017 21:08:01

Highest channel



Date: 11.APR.2017 21:10:25

Appendix A: Photographs of Test Setup

Refer to test report TCT170331E007

Appendix B: Photographs of EUT

Refer to test report TCT170331E007

*******END OF REPORT*******