

# FCC Part 15C Measurement and Test Report

# For

# ENPING ENBAO ELECTRONIC CO., LTD.

B3, 3 Zone, Enping Park, Industrial Transfer Park of Jiangmen, Guangdong,

### China

FCC ID: 2AILBUHF-3205-5805

FCC Rule(s): FCC Part 15.249

Product Description: Wireless handheld transmitter

Tested Model: <u>UHF-3205/5805</u>

**Report No.:** <u>STR190480011</u>

Sample Receipt Date: 2019-04-08

**Tested Date:** <u>2019-04-08 to 2019-04-09</u>

**Issued Date:** <u>2019-04-09</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.



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# 1. GENERAL INFORMATION

# 1.1 Product Description for Equipment Under Test (EUT)

**Client Information** 

Applicant: ENPING ENBAO ELECTRONIC CO., LTD.

Address of applicant: B3, 3 Zone, Enping Park, Industrial Transfer Park of

Jiangmen, Guangdong, China

Manufacturer: ENPING ENBAO ELECTRONIC CO., LTD.

Address of manufacturer: B3, 3 Zone, Enping Park, Industrial Transfer Park of

Jiangmen, Guangdong, China

<b>General Description of E</b>	UT	
Product Name:	Wireless handheld transmitter	
Brand Name:	VOCOPRO	
Model No.:	UHF-3205/5805	
Adding Model:	/	
Rated Voltage:	DC 3.7V	
Battery capacity:	3.7V/800mAh	
	Model:YU135100D3	
Power Adaptor:	INPUT:120VAC 60Hz 32W	
	OUTPUT:13.5VDC 1000mA	
	,	
Note: The test data is gathered	from a production sample provided by the manufacturer.	

Technical Characteristics of EUT		
Frequency Range:	902.9MHz-927.2MHz	
Max. Field Strength:	86.36 dBuV/m	
Antenna Type:	PCB	
Antenna Gain:	0dBi	

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#### 1.2 Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.249:</u> Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

# 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013,

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

### 1.4 Test Facility

#### FCC - Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

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# 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	
TM1	Low Channel	902.9MHz	
TM2	Middle Channel	913.3MHz	
TM3	High Channel	927.2MHz	

Test Conditions		
Temperature:	22~25 °C	
Relative humidity	50~55 %.	
ATM Pressure:	1019 mbar	

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Deta	ils		
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

# 1.6 Measurement Uncertainty

Measurement uncertainty			
Parameter	Conditions	Uncertainty	
RF Output Power	Conducted	±0.42dB	
Occupied Bandwidth	Conducted	±1.5%	
Conducted Spurious Emission	Conducted	±2.17dB	
Conducted Emissions		9-150kHz ±3.74dB	
Conducted Emissions	Conducted	$0.15\text{-}30\text{MHz} \pm 3.34\text{dB}$	
		30-200MHz ±4.52dB	
Transmitter Spurious Emissions	Radiated	0.2-1GHz ±5.56dB	
		1-6GHz ±3.84dB	
		6-18GHz ±3.92dB	

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# **1.7 Test Equipment List and Details**

No.	Description	Manufacturer	Model	Serial No.	Cal Date	<b>Due Date</b>
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2019-03-18	2020-03-17
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2019-03-18	2020-03-17
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2019-03-18	2020-03-17
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2019-03-18	2020-03-17
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2019-03-18	2020-03-17



Software List					
Description Manufacturer Model Version					
EMI Test Software	CCC	EZ EMC	V1.0		
(Radiated Emission)*	CCS	EZ-EMC	V1.0		
EMI Test Software	CCC	EZ EMO	V1.0		
(Conducted Emission)*	CCS	EZ-EMC	V1.0		

<sup>\*</sup>Remark: indicates software version used in the compliance certification testing



# 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

N/A: not applicable

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# 3. Antenna Requirements

# 3.1 Standard Applicable

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

# 3.2 Test Result

This product has a PCB antenna, fulfill the requirement of this section.

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## 4. Radiated Emissions

# 4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)		
902-928 MHz	50	500		
2400-2483.5 MHz	50	500		
5725-5875 MHz	50	500		
24.0-24.25 GHz	250	2500		

(d) 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 §15.209, whichever is the lesser attenuation.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

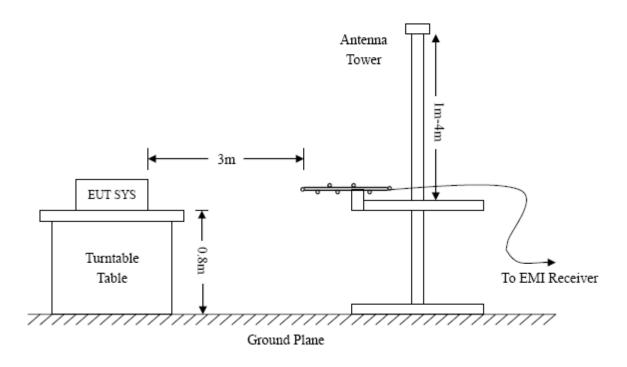
#### 4.2 Test Procedure

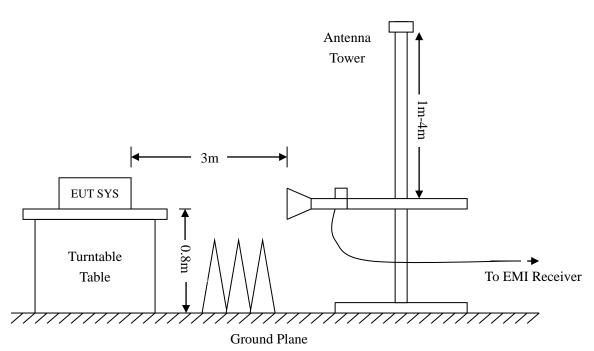
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

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Frequency:9kHz-30MHz

RBW=10KHz,

VBW = 30KHz

Sweep time= Auto

 $Trace = max \ hold$ 

 $Detector\ function = peak$ 

Frequency:30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency : Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

 $Trace = max \ hold$ 

Detector function = peak, AV



# 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss - Ampl. Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $-6dB\mu V$  means the emission is  $6dB\mu V$  below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15C Limit

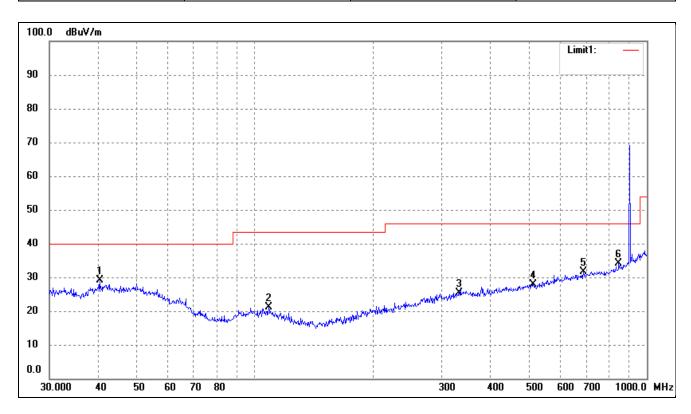
# 4.4 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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# > Spurious Emissions Below 1GHz

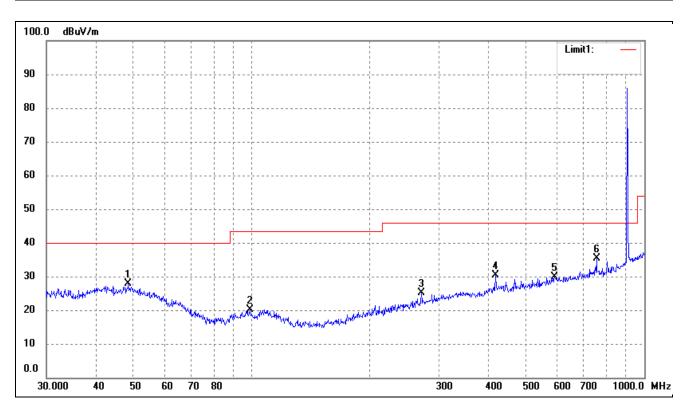


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	40.2757	37.61	-8.48	29.13	40.00	-10.87	318	100	peak
2	108.6470	35.68	-14.45	21.23	43.50	-22.27	97	100	peak
3	332.5187	33.81	-8.36	25.45	46.00	-20.55	240	100	peak
4	513.6331	33.78	-5.91	27.87	46.00	-18.13	100	100	peak
5	689.5644	34.38	-2.73	31.65	46.00	-14.35	279	100	peak
6	848.0563	34.42	-0.28	34.14	46.00	-11.86	205	100	peak

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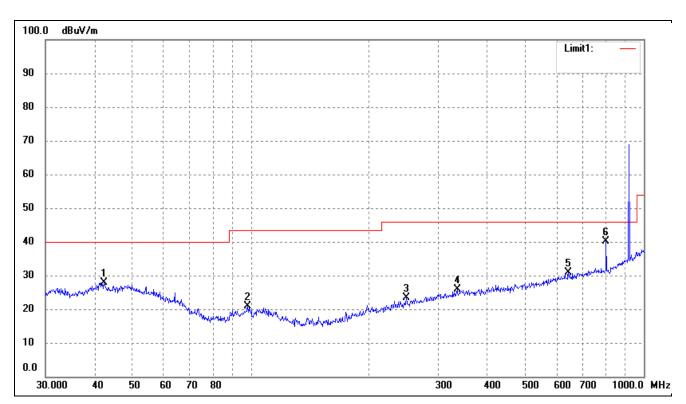




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	48.5016	36.02	-8.26	27.76	40.00	-12.24	309	100	peak
2	99.1797	35.02	-14.95	20.07	43.50	-23.43	90	100	peak
3	270.3748	35.51	-10.45	25.06	46.00	-20.94	80	100	peak
4	417.6411	37.31	-6.95	30.36	46.00	-15.64	100	100	peak
5	590.9737	33.92	-3.99	29.93	46.00	-16.07	92	100	peak
6	755.3873	37.02	-1.66	35.36	46.00	-10.64	330	100	peak



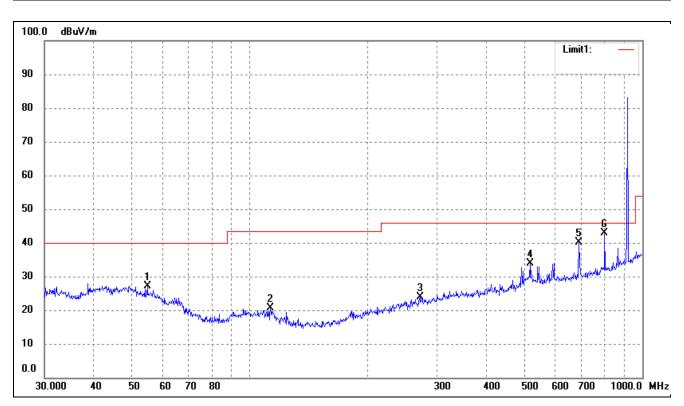




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	42.3021	35.92	-8.02	27.90	40.00	-12.10	89	100	peak
2	98.1419	35.77	-14.99	20.78	43.50	-22.72	247	100	peak
3	248.5518	34.54	-11.25	23.29	46.00	-22.71	75	100	peak
4	334.8589	34.06	-8.29	25.77	46.00	-20.23	311	100	peak
5	642.8613	34.26	-3.50	30.76	46.00	-15.24	128	100	peak
6	801.7862	41.74	-1.57	40.17	46.00	-5.83	102	100	peak



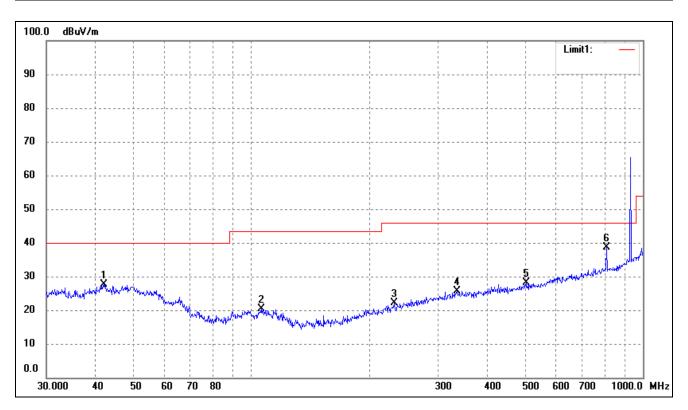




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	54.8348	36.43	-9.21	27.22	40.00	-12.78	178	100	peak
2	112.9196	35.52	-14.93	20.59	43.50	-22.91	199	100	peak
3	271.3245	34.26	-10.40	23.86	46.00	-22.14	64	100	peak
4	517.2480	39.87	-5.87	34.00	46.00	-12.00	314	100	peak
5	689.5643	42.91	-2.73	40.18	46.00	-5.82	169	100	peak
6	801.7862	44.47	-1.57	42.90	46.00	-3.10	165	100	peak



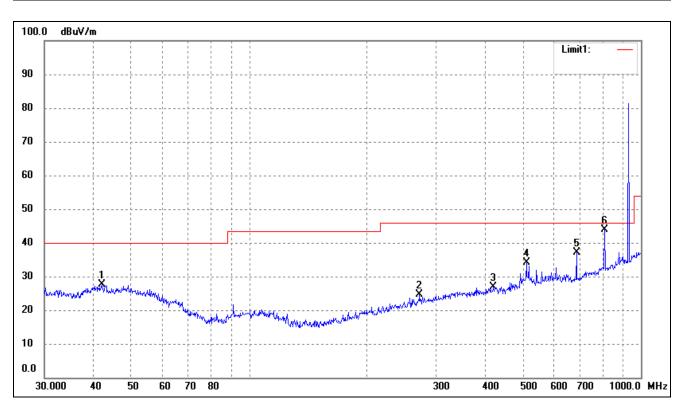




No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	42.0066	35.76	-8.03	27.73	40.00	-12.27	161	100	peak
2	106.0126	34.91	-14.49	20.42	43.50	-23.08	135	100	peak
3	231.7179	34.05	-11.97	22.08	46.00	-23.92	108	100	peak
4	334.8589	33.94	-8.29	25.65	46.00	-20.35	148	100	peak
5	504.7062	33.99	-5.98	28.01	46.00	-17.99	208	100	peak
6	807.4291	39.90	-1.30	38.60	46.00	-7.40	101	100	peak







No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	42.0066	35.60	-8.03	27.57	40.00	-12.43	59	100	peak
2	272.2776	34.88	-10.36	24.52	46.00	-21.48	194	100	peak
3	420.5803	33.76	-6.90	26.86	46.00	-19.14	123	100	peak
4	510.0436	39.97	-5.96	34.01	46.00	-11.99	137	100	peak
5	684.7454	39.98	-2.83	37.15	46.00	-8.85	132	100	peak
6	807.4291	45.22	-1.30	43.92	46.00	-2.08	253	100	peak



# > Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector			
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V				
			Low Channe	el-902.9MHz						
1805.80	71.92	-11.61	60.31	74.00	-12.84	Н	PK			
1805.80	50.94	-11.61	39.33	54.00	-10.36	Н	AV			
1805.80	74.36	-11.61	62.75	74.00	-13.52	V	PK			
1805.80	52.70	-11.61	41.09	54.00	-9.81	V	AV			
	Middle Channel-913.3MHz									
1826.60	75.14	-11.40	63.74	74.00	-12.09	Н	PK			
1826.60	53.17	-11.40	41.77	54.00	-9.63	Н	AV			
1826.60	74.19	-11.40	62.79	74.00	-13.21	V	PK			
1826.60	51.93	-11.40	40.53	54.00	-10.04	V	AV			
			High Channe	el-927.2MHz						
1854.40	71.89	-11.10	60.79	74.00	-13.54	Н	PK			
1854.40	50.12	-11.10	39.02	54.00	-10.79	Н	AV			
1854.40	72.86	-11.10	61.76	74.00	-12.83	V	PK			
1854.40	51.86	-11.10	40.76	54.00	-9.76	V	AV			

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3<sup>th</sup> Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

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# 5. Out of Band Emissions

# **5.1 Standard Applicable**

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 §15.209, whichever is the lesser attenuation.

#### **5.2 Test Procedure**

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 902MHz to 928MHz, than mark the higher-level emission for comparing with the FCC rules.

# **5.3 Summary of Test Results/Plots**

Togt made	Frequency	Limit	Dogralt	
Test mode	MHz	dBuV / dBc	Result	
Lowest	902	<46 dBuV	Pass	
Highest	928	<46 dBuV	Pass	

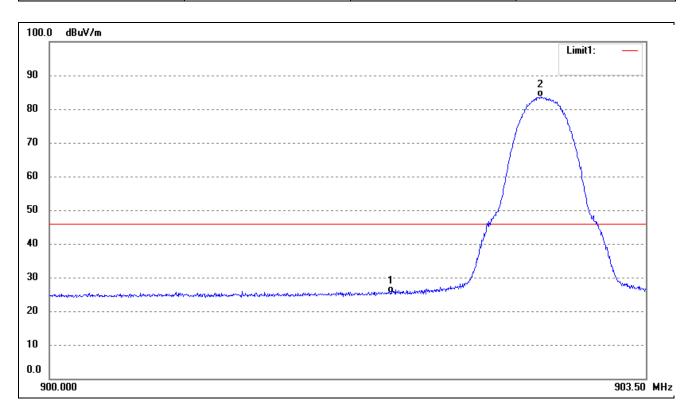
The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

Please refer to the test plots as below.

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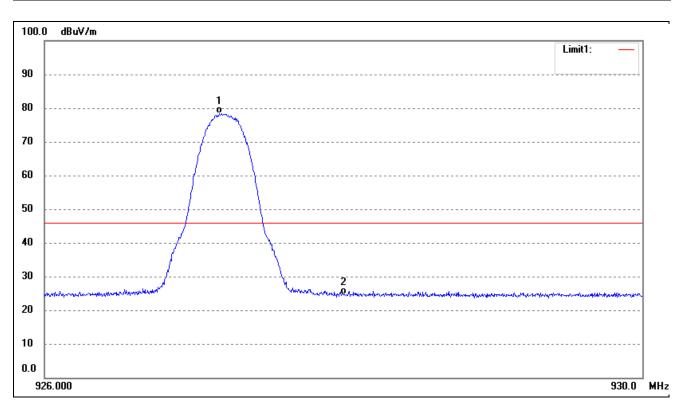




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	902.0000	23.91	1.44	25.35	46.00	-20.65	Average Detector
	902.0000	38.54	1.44	39.98	46.00	-6.02	Peak Detector
2	902.8795	82.10	1.46	83.56	94.00	-10.44	Average Detector
	902.9321	84.90	1.46	86.36	114.00	-27.64	Peak Detector







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	927.1662	76.38	2.01	78.39	94.00	-15.61	Average Detector
	927.1662	79.69	2.01	81.70	114.00	-32.3	Peak Detector
2	928.0000	22.71	2.01	24.72	46.00	-21.28	Average Detector
	928.0000	37.40	2.01	39.41	46.00	-6.59	Peak Detector



## 6. Emission Bandwidth

# **6.1 Standard Applicable**

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

#### **6.2 Test Procedure**

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW ≥1% 20dB Bandwidth, VBW ≥RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

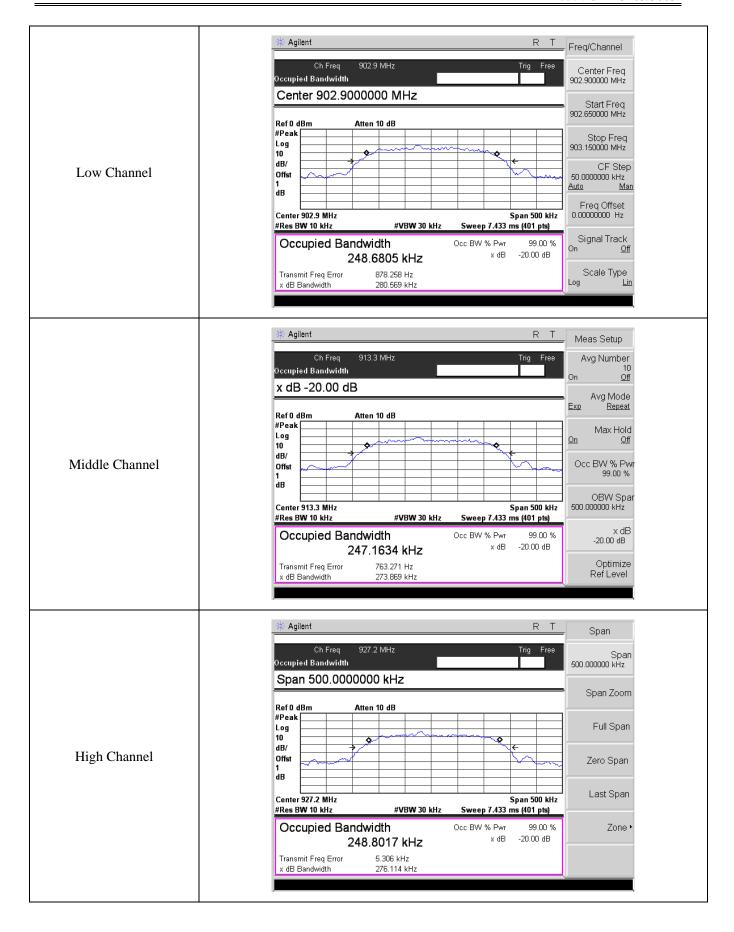
## 6.3 Summary of Test Results/Plots

Channel	Frequency MHz	20dB Bandwidth kHz		
Low Channel	913.3	280.569		
Middle Channel	916.3	273.869		
High Channel	925.8	276.114		

Please refer to the following test plots

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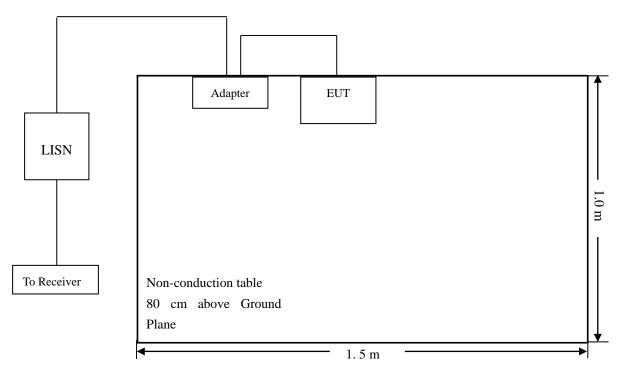
# 7. Conducted Emissions

### 7.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

# 7.2 Basic Test Setup Block Diagram



# 7.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

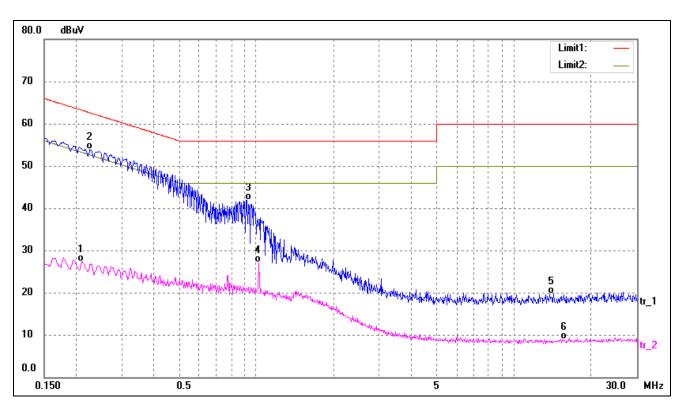
Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Ouasi-Peak Adapter Mode	Normal

# 7.4 Summary of Test Results/Plots

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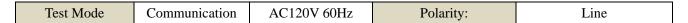


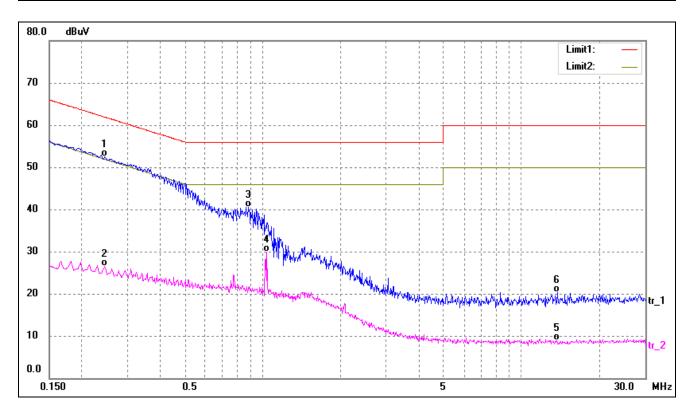




No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.2100	17.27	10.13	27.40	53.20	-25.80	AVG
2*	0.2260	43.72	10.14	53.86	62.59	-8.73	QP
3	0.9220	31.45	10.47	41.92	56.00	-14.08	QP
4	1.0220	16.52	10.50	27.02	46.00	-18.98	AVG
5	13.8300	8.69	11.01	19.70	60.00	-40.30	QP
6	15.5900	-2.06	11.04	8.98	50.00	-41.02	AVG







No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.2460	42.40	10.15	52.55	61.89	-9.34	QP
2	0.2460	16.41	10.15	26.56	51.89	-25.33	AVG
3	0.8820	30.03	10.46	40.49	56.00	-15.51	QP
4	1.0380	19.43	10.50	29.93	46.00	-16.07	AVG
5	13.6420	-2.11	11.01	8.90	50.00	-41.10	AVG
6	13.7660	9.27	11.01	20.28	60.00	-39.72	QP

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