

FCC Part 15C Measurement and Test Report

For

Goodbetterbest Limited

Suites 103-107 Devonshire Business Centre Works Road Letchworth Herts,

SG6 1GJ United Kingdom

FCC ID: VS9-FL400

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>Bluetooth Headset</u>
Tested Model:	<u>FL400</u>
Report No.:	<u>STR15118177I-2</u>
Tested Date:	<u>2015-11-01 to 2015-11-27</u>
Issued Date:	<u>2015-11-28</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: Goodbetterbest Limited
Address of applicant: Suites 103-107 Devonshire Business Centre Works
Road Letchworth Herts, SG6 1GJ United Kingdom
Manufacturer: ATI Electronics (ShenZhen) Co.,LTD
Address of manufacturer: 1/F, B Tower, Shengdelan Industrial Park, Kukeng
Village, Guanlan Town, Shenzhen, China.

General Description of EUT	
Product Name:	Bluetooth Headset
Trade Name:	Gioteck
Model No.:	FL400
Adding Model(s):	FL400/XX, FL400Y/XX "Y" can be A-Z, denoting the different appearance; "XX" can be 00-99, denoting the different color
Rated Voltage:	Battery DC 3.7V; USB DC 5V charging purpose only
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model FL400, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2406-2474MHz
Max. Field Strength:	80.70dBuV/m (at 3m field)
Modulation:	GFSK
Quantity of Channels:	34
Channel Separation:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi
Lowest Internal Frequency of EUT:	16MHz
Device Category:	Portable device

1.2 Test Standards

The following report is prepared on behalf of the Goodbetterbest Limited in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

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, American National Standard for Testing Unlicensed Wireless Devices, ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

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.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

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	2406MHz
TM2	Middle Channel	2448MHz
TM3	High Channel	2472MHz

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	Lenovo	E23	EB12648265

1.6 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2015-06-17	2016-06-16
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-06-17	2016-06-16
Amplifier	Agilent	8447F	3113A06717	2015-06-17	2016-06-16
Amplifier	C&D	PAP-1G18	2002	2015-06-17	2016-06-16
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2015-06-17	2016-06-16
Horn Antenna	ETS	3117	00086197	2015-06-17	2016-06-16
Horn Antenna	ETS	3116B	00088203	2015-06-17	2016-06-16
Loop Antenna	Schwarz beck	FMZB 1516	9773	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-06-17	2016-06-16
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-06-17	2016-06-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-06-17	2016-06-16

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

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 an integral antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

4.2 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.

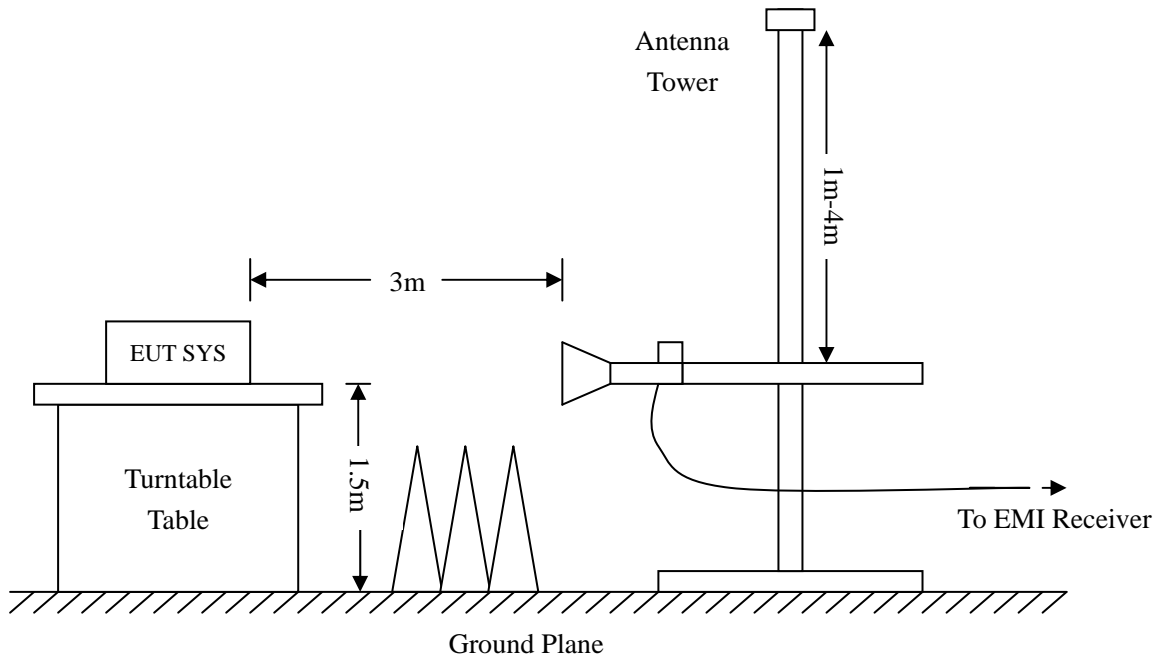
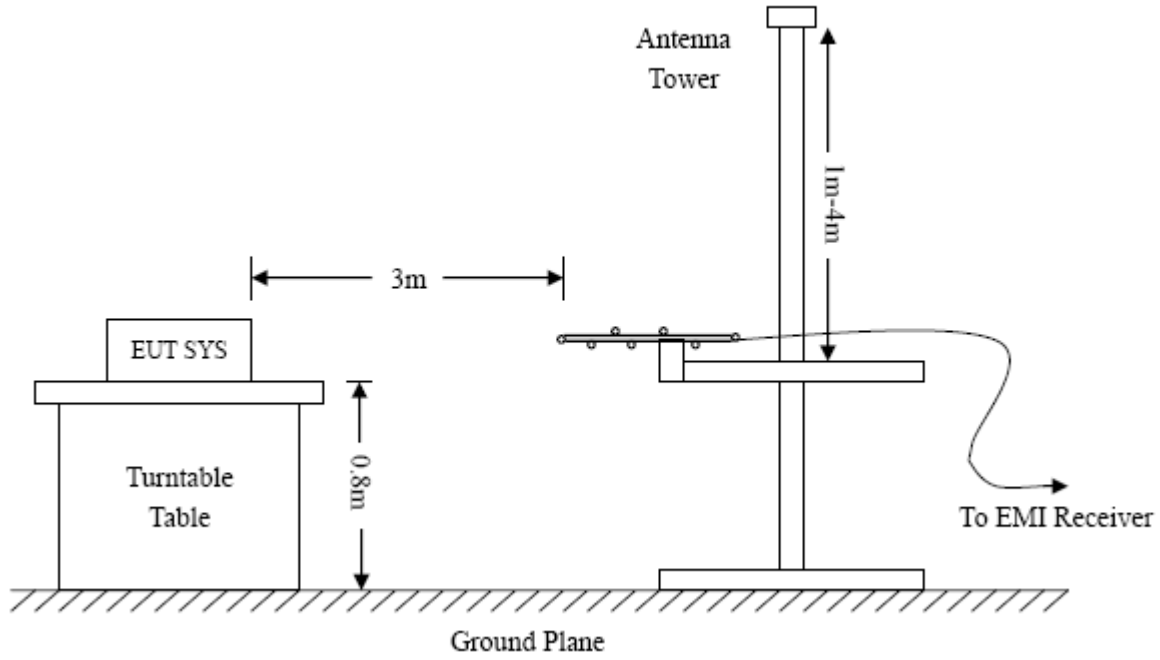
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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.



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

4.4 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.5 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

4.6 Summary of Test Results/Plots

According to the data below, the [FCC Part 15.205](#), [15.209](#) and [15.249](#) standards, and had the worst margin of:

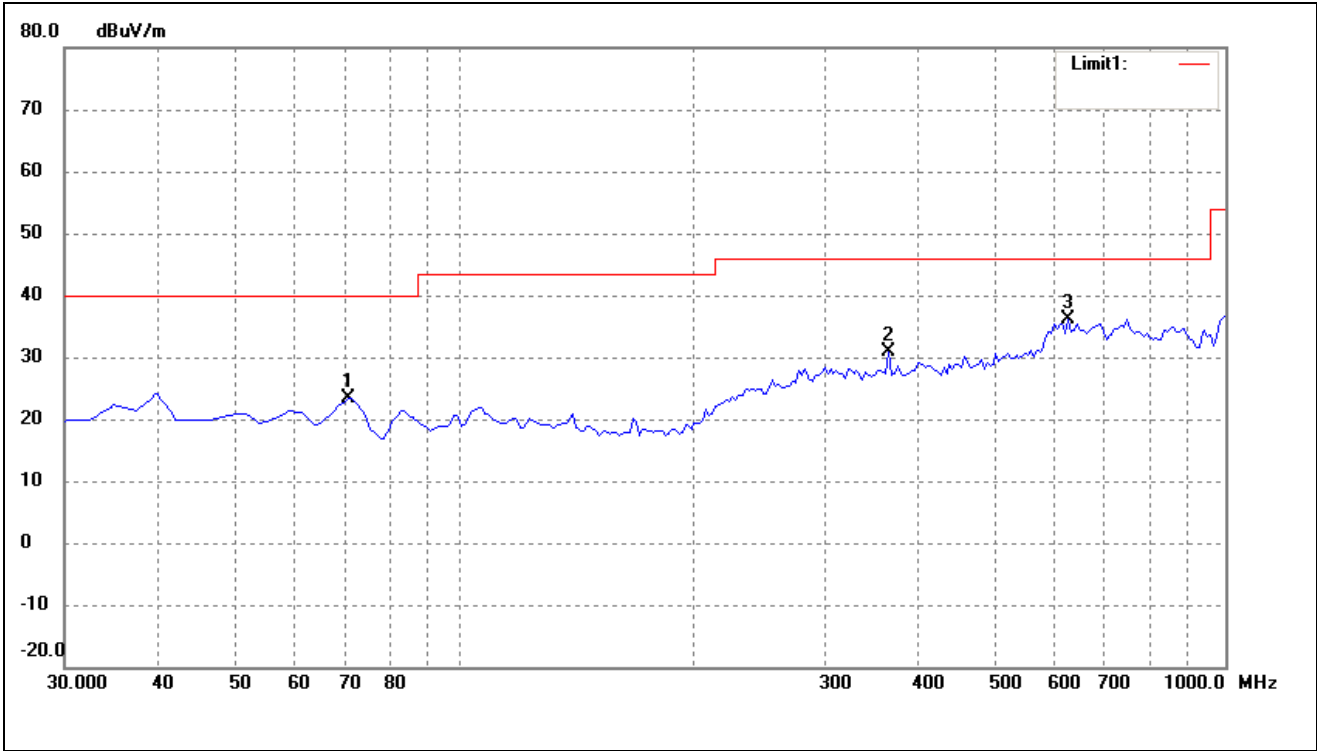
-4.36 dB at 953.9250 MHz in the Vertical polarization, High Channel, 9 kHz to 25 GHz, 3Meters

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

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

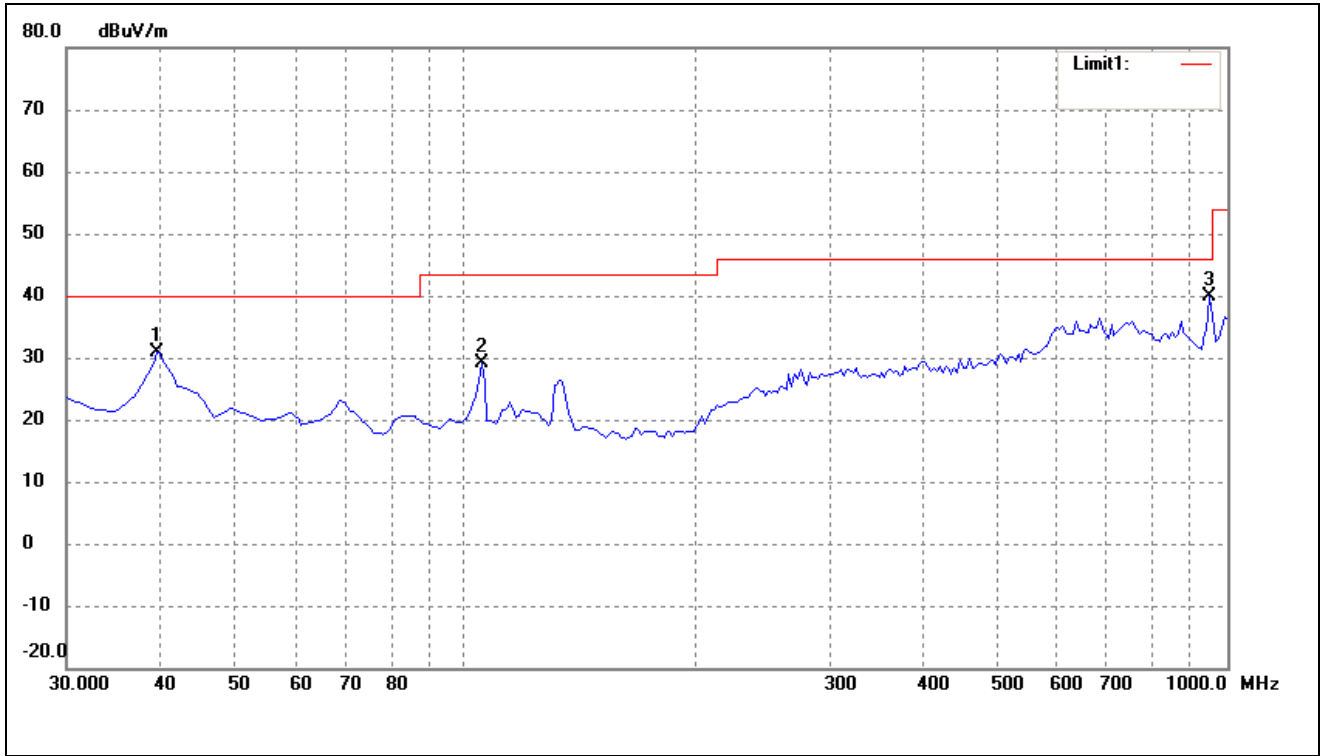
EUT: *Bluetooth Headset*
 Tested Model: *FL400*
 Operating Condition: *Transmitting Low Channel (2406MHz)*
 Comment: *DC 3.7V*

Test Specification: *Horizontal*



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	71.2250	20.40	3.04	23.44	40.00	-16.56	100	100	peak
2	362.2250	18.62	12.24	30.86	46.00	-15.14	100	200	peak
3	624.1250	18.07	18.06	36.13	46.00	-9.87	100	100	peak

Test Specification: Vertical

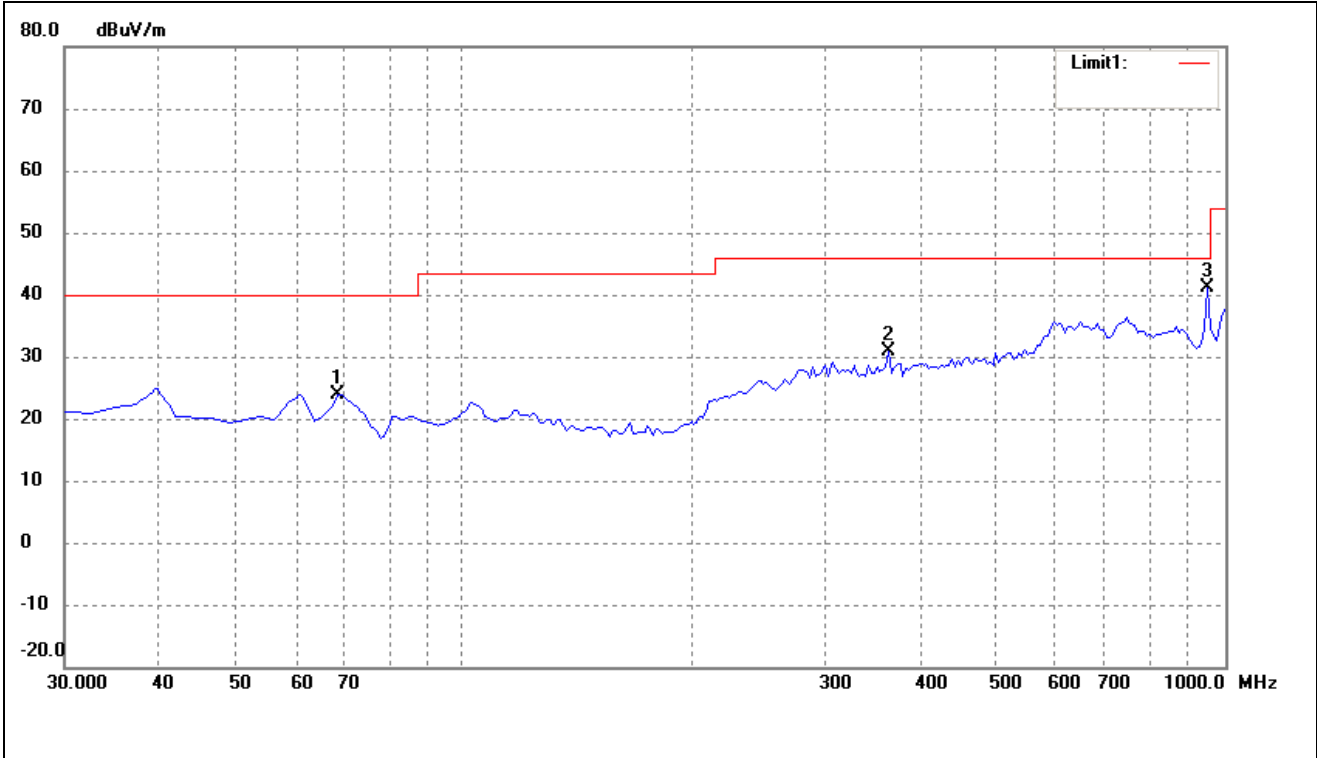


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.7000	25.59	5.20	30.79	40.00	-9.21	100	100	peak
2	105.1750	23.98	5.10	29.08	43.50	-14.42	100	100	peak
3	953.9250	23.54	16.31	39.85	46.00	-6.15	100	100	peak

Operating Condition: Transmitting Middle Channel (2448MHz)

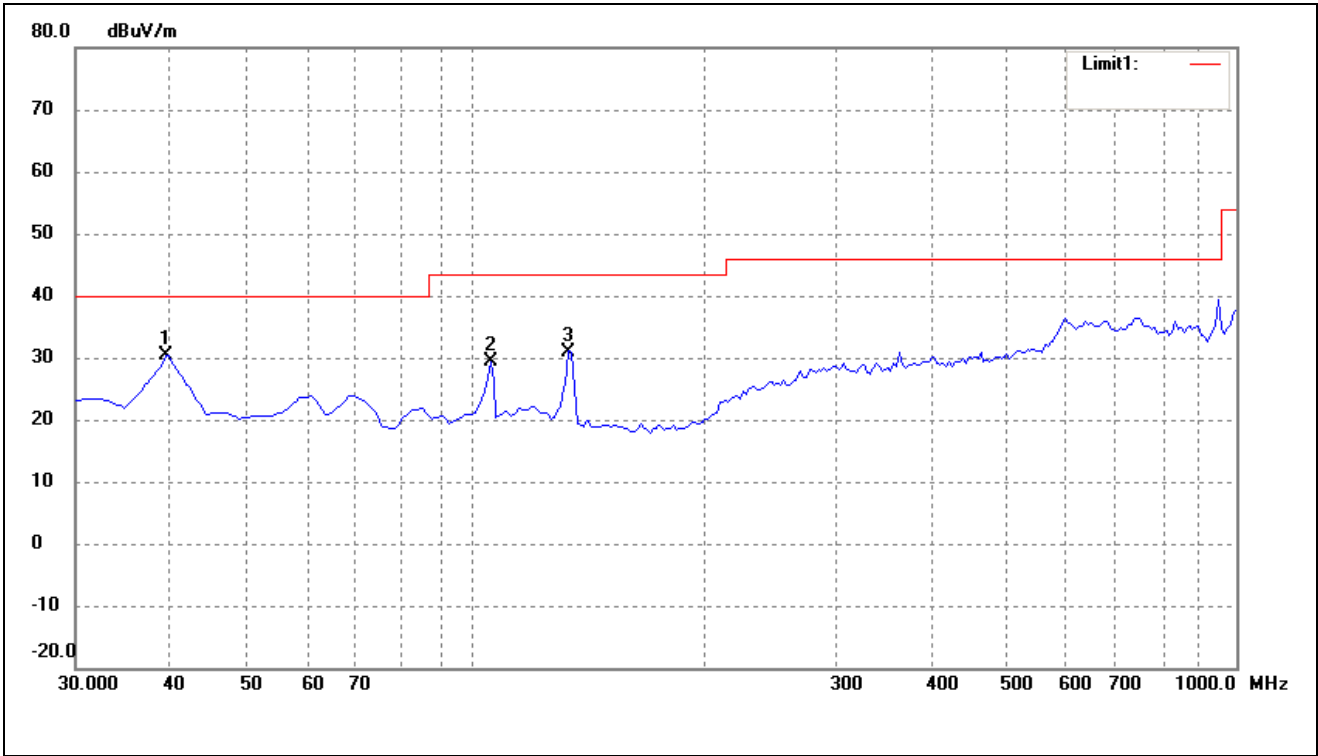
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	68.8000	20.43	3.45	23.88	40.00	-16.12	100	100	peak
2	362.2250	18.64	12.24	30.88	46.00	-15.12	100	100	peak
3	953.9250	24.74	16.31	41.05	46.00	-4.95	100	100	peak

Test Specification: Vertical

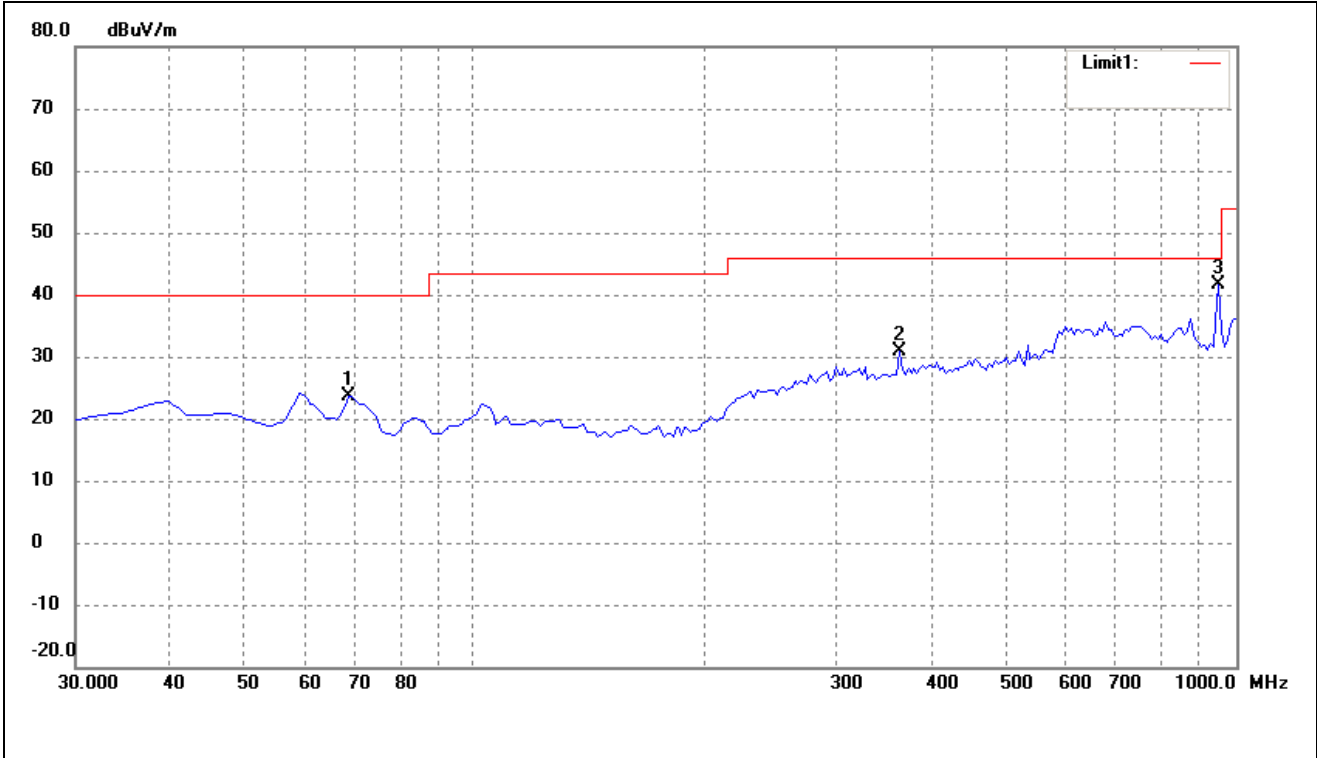


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.7000	25.09	5.20	30.29	40.00	-9.71	100	100	peak
2	105.1750	24.36	5.10	29.46	43.50	-14.04	100	100	peak
3	134.2750	27.13	3.87	31.00	43.50	-12.50	100	100	peak

Operating Condition: Transmitting High Channel (2474MHz)

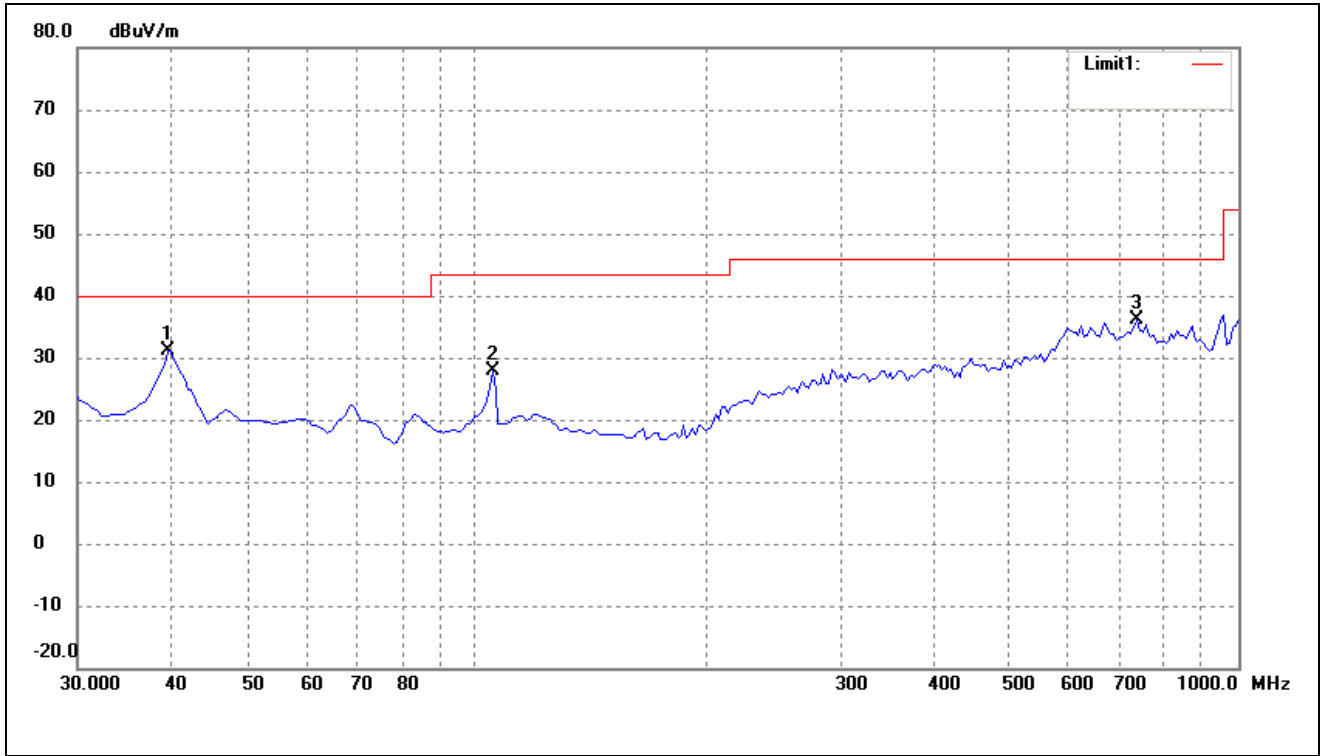
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	68.8000	20.15	3.45	23.60	40.00	-16.40	100	100	peak
2	362.2250	18.69	12.24	30.93	46.00	-15.07	100	100	peak
3	953.9250	25.33	16.31	41.64	46.00	-4.36	100	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.7000	25.87	5.20	31.07	40.00	-8.93	100	100	peak
2	105.1750	22.74	5.10	27.84	43.50	-15.66	100	100	peak
3	740.5250	16.71	19.53	36.24	46.00	-9.76	100	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 Channel-2406MHz							
2406	84.08	-3.49	80.59	114	-33.47	H	PK
2406	75.05	-3.49	71.56	94	-22.42	H	AV
4812	60.81	0.57	61.38	74	-12.59	H	PK
4812	46.75	0.57	47.32	54	-6.66	H	AV
7218	40.82	7.18	48.02	74	-25.98	H	PK
7218	28.80	7.18	35.98	54	-18.02	H	AV
2406	83.22	-3.49	79.73	114	-34.27	V	PK
2406	78.24	-3.49	74.75	94	-19.25	V	AV
4812	48.39	0.57	48.96	74	-25.04	V	PK
4812	35.12	0.57	35.69	54	-18.31	V	AV
7218	40.12	5.89	46.01	74	-27.99	V	PK
7218	28.10	6.15	34.25	54	-19.75	V	AV
Middle Channel-2448MHz							
2448	81.03	-3.43	77.60	114	-33.40	H	PK
2448	73.23	-3.43	69.80	94	-24.21	H	AV
4896	57.47	0.66	58.13	74	-15.87	H	PK
4896	42.89	0.66	43.55	54	-10.45	H	AV
7344	41.08	3.11	44.19	74	-29.81	H	PK
7344	28.93	3.33	32.26	54	-21.74	H	AV
2448	82.48	-3.43	79.05	114	-34.95	V	PK
2448	75.13	-3.43	71.70	94	-22.30	V	AV
4896	49.01	0.66	49.67	74	-24.33	V	PK
4896	36.08	0.66	36.74	54	-17.26	V	AV
7344	41.03	7.18	48.21	74	-25.79	V	PK
7344	28.83	7.18	36.01	54	-17.99	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
High Channel-2474MHz							
2474	84.03	-3.33	80.70	114	-33.33	H	PK
2474	75.13	-3.33	71.80	94	-22.23	H	AV
4948	53.18	0.75	53.93	74	-20.07	H	PK
4948	39.56	0.75	40.31	54	-13.69	H	AV
7412	40.49	7.11	47.60	74	-26.40	H	PK
7412	28.70	7.18	35.88	54	-18.12	H	AV
2474	82.30	-3.33	78.97	114	-35.03	V	PK
2474	76.15	-3.33	72.82	94	-21.18	V	AV
4948	46.52	0.75	47.27	74	-26.73	V	PK
4948	33.70	0.75	34.45	54	-19.55	V	AV
7412	41.30	7.23	48.53	74	-25.47	V	PK
7412	28.76	7.18	35.94	54	-18.06	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th 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.

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 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

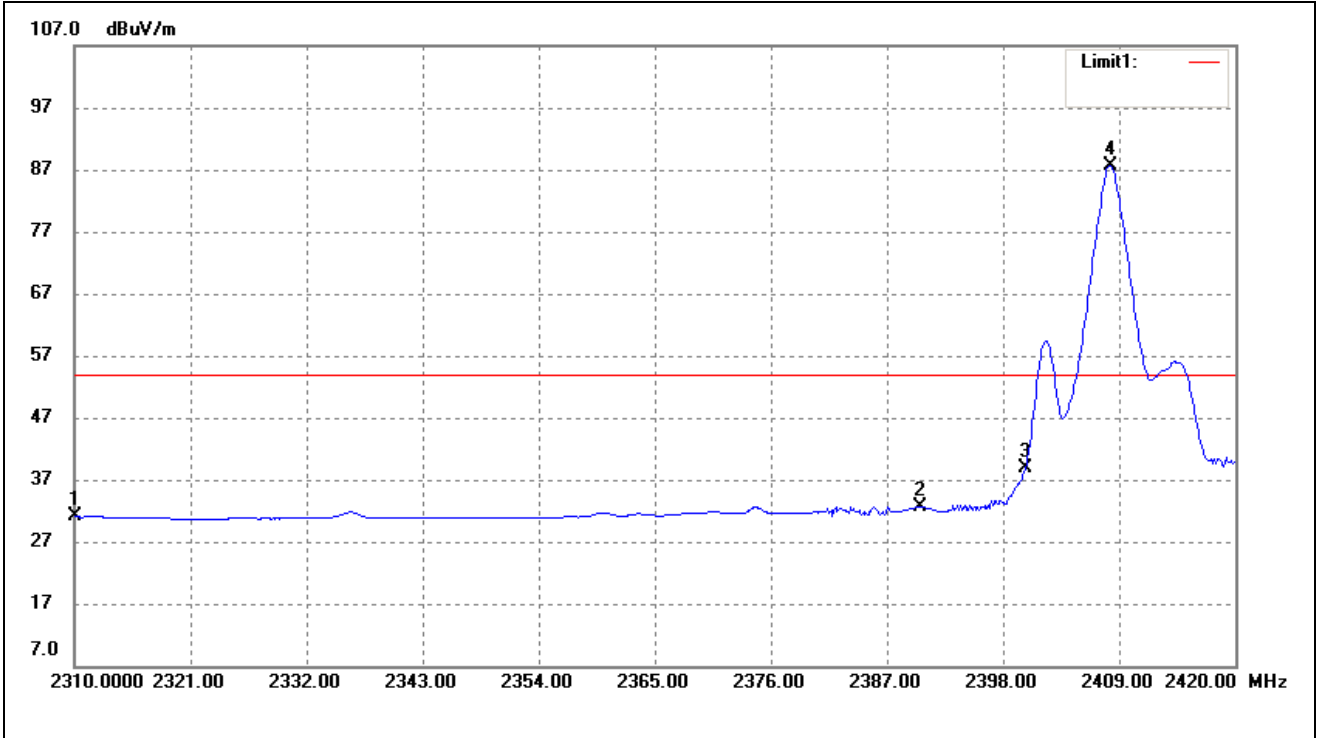
5.4 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

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

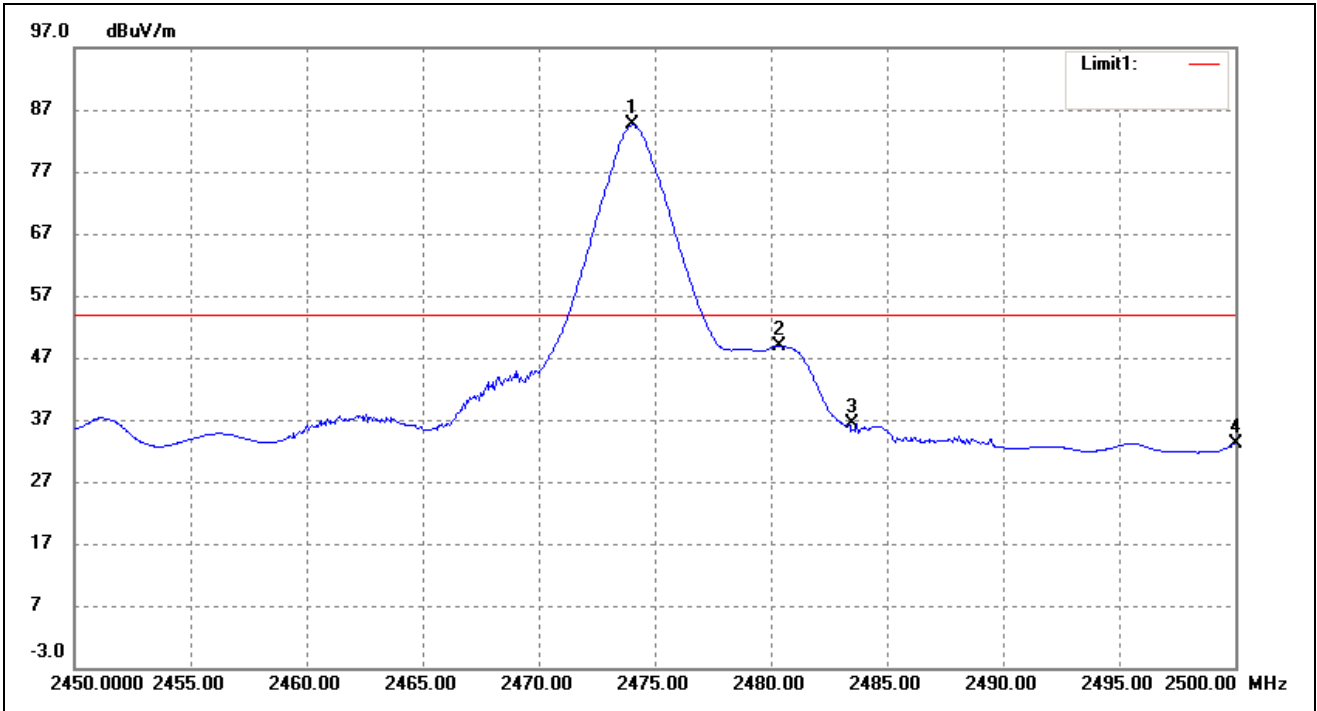
Please refer to the test plots as below.

Lowest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	34.84	-3.82	31.02	54.00	-22.98	Ave Detector
	2310.000	47.21	-3.82	43.39	74.00	-30.61	Peak Detector
2	2390.000	36.20	-3.60	32.60	54.00	-21.40	Ave Detector
	2390.000	48.12	-3.60	44.52	74.00	-29.48	Peak Detector
3	2400.000	42.44	-3.56	38.88	54.00	-15.12	Ave Detector
	2400.000	53.93	-3.56	50.37	74.00	-23.63	Peak Detector
4	2408.120	91.27	-3.54	87.73	/	/	Ave Detector
	2407.460	93.49	-3.54	89.95	/	/	Peak Detector

Highest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2474.050	87.91	-3.33	84.58	/	/	Ave Detector
	2474.400	91.67	-3.33	88.34	/	/	Peak Detector
2	2480.350	52.16	-3.32	48.84	54.00	-5.16	Ave Detector
	2479.300	64.30	-3.32	60.98	74.00	-13.02	Peak Detector
3	2483.500	39.60	-3.32	36.28	54.00	-17.72	Ave Detector
	2483.500	53.93	-3.32	50.61	74.00	-23.39	Peak Detector
4	2500.000	36.50	-3.26	33.24	54.00	-20.76	Ave Detector
	2500.000	49.98	-3.26	46.72	74.00	-27.28	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 63.4-2014, 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 \geq 1% 20dB Bandwidth, VBW \geq 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 Environmental Conditions

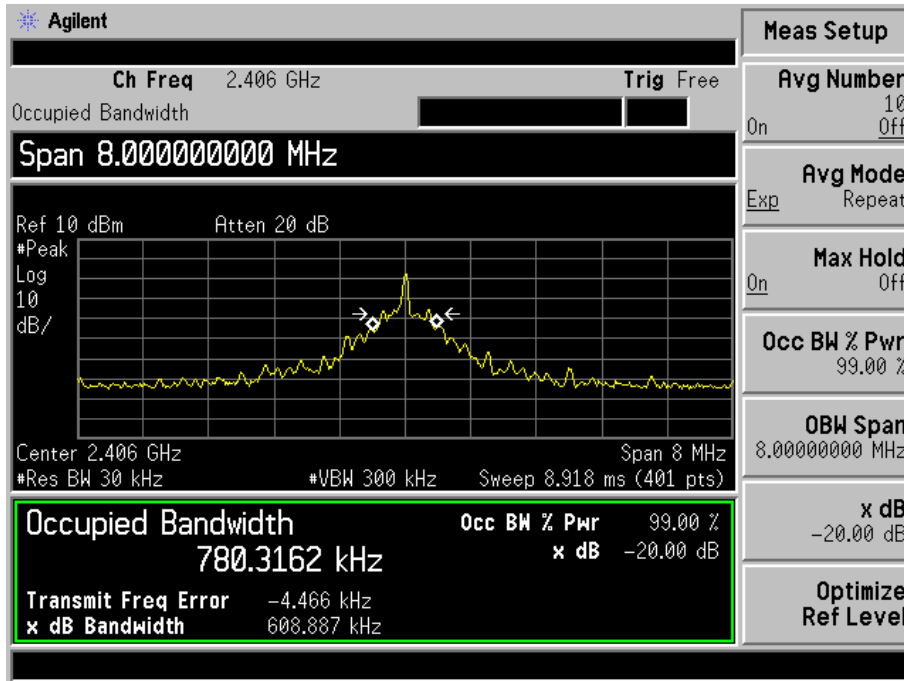
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

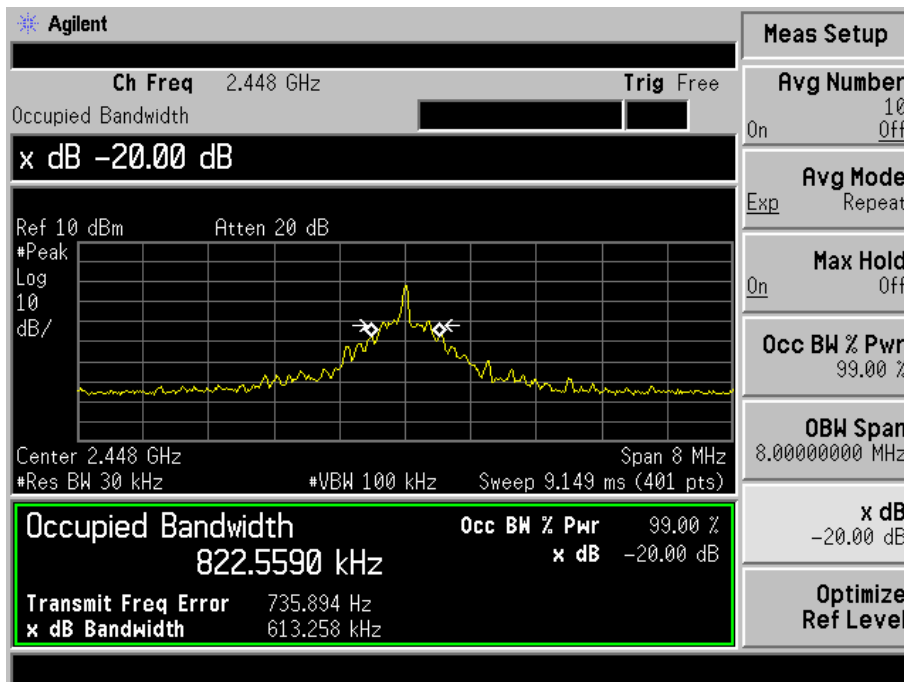
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2406	608.887	780.3162
Middle Channel	2448	613.258	822.5590
High Channel	2474	601.378	671.2408

Please refer to the following test plots

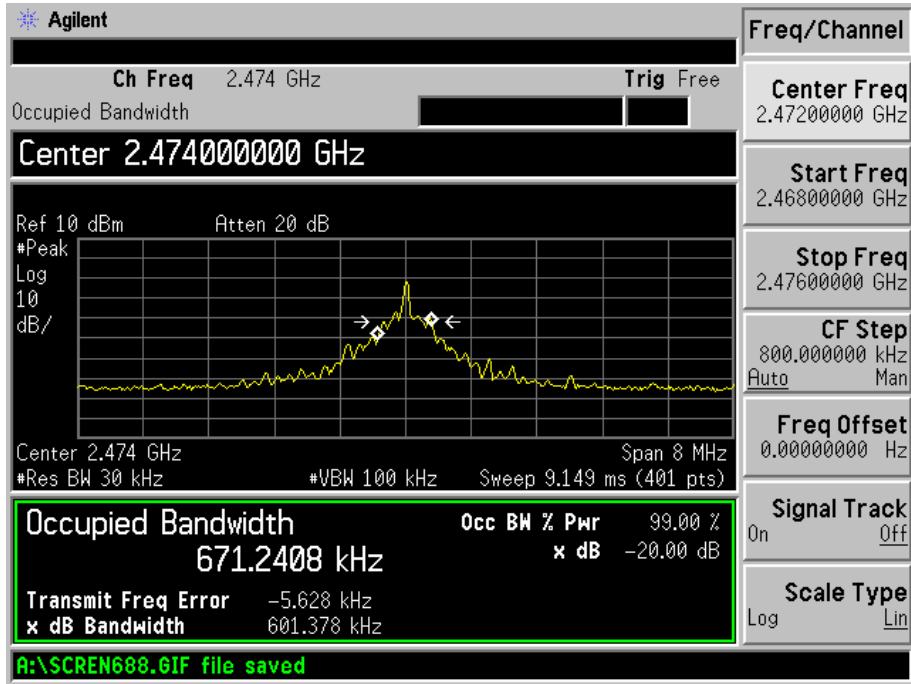
Low Channel:



Middle Channel:



High Channel:



7. Conducted Emissions

7.1 Measurement Uncertainty

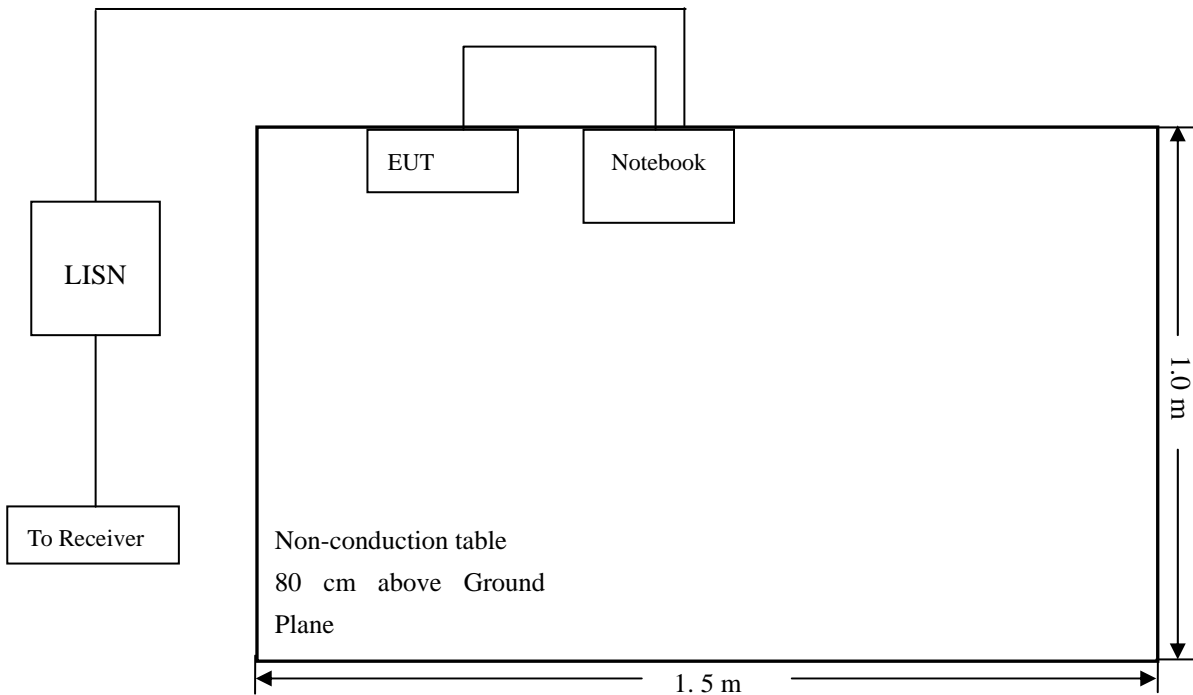
Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

7.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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.

7.3 Basic Test Setup Block Diagram



7.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

7.5 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
Quasi-Peak Adapter Mode Normal

7.6 Summary of Test Results/Plots

According to the data in section 7.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

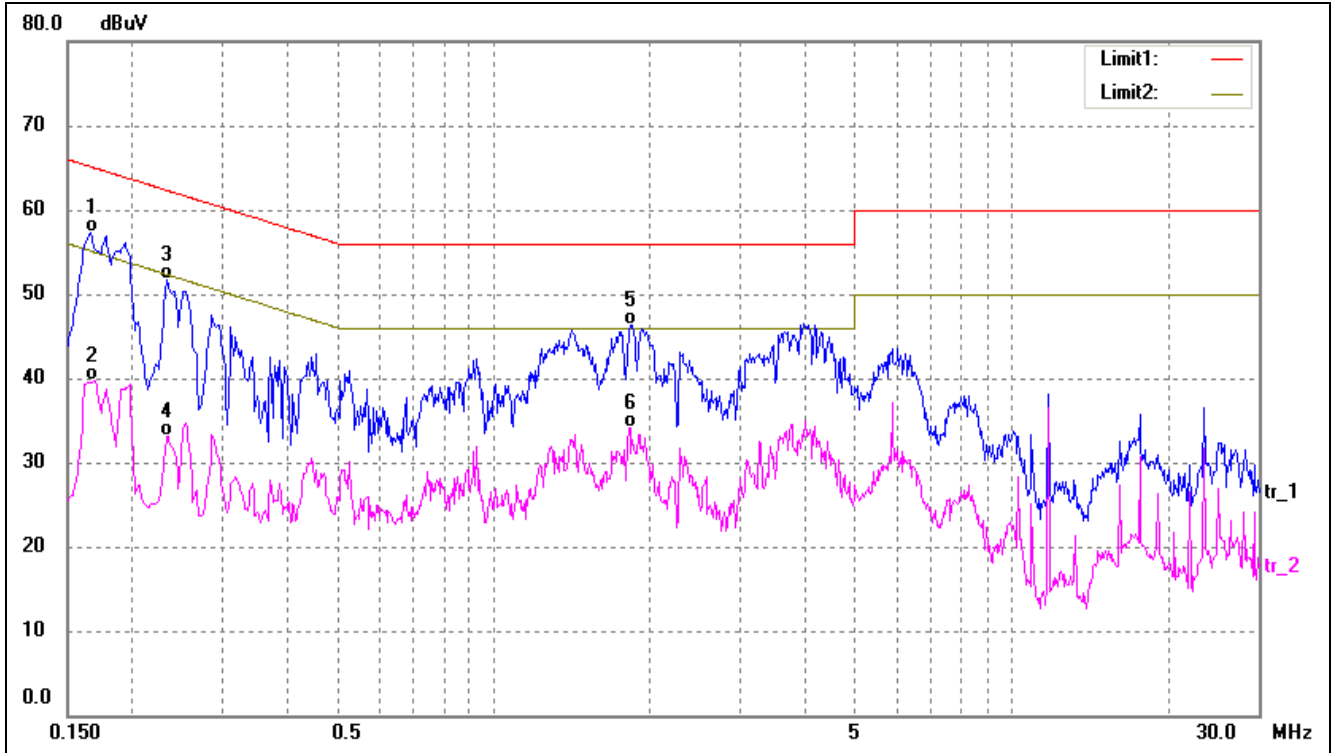
-7.88 dB at 0.1660 MHz in the Neutral mode, Quasi-peak detector, 0.15-30MHz

7.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

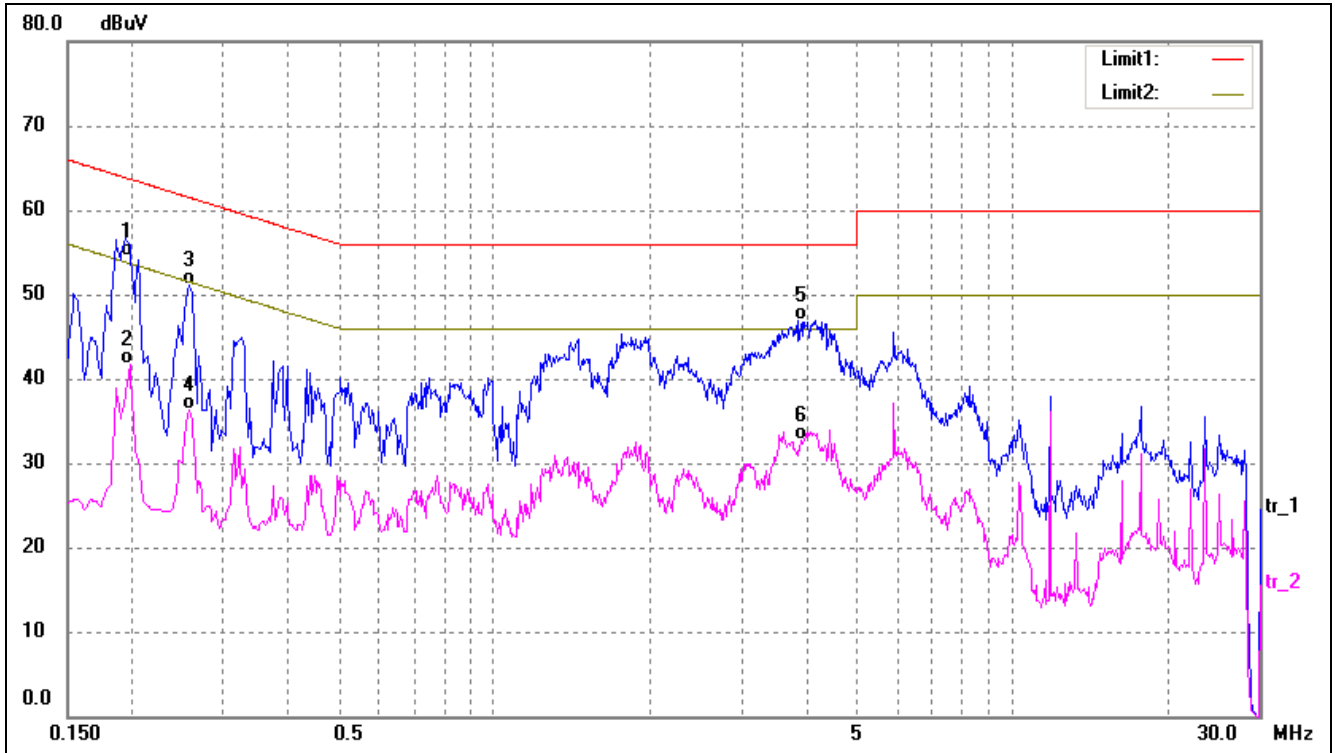
EUT: *Bluetooth Headset*
 Tested Model: *FL400*
 Operating Condition: *Transmitting*
 Comment: *AC 230C/50HZ USB 5V*

Test Specification: *Neutral*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1660	44.78	12.50	57.28	65.16	-7.88	QP
2	0.1660	27.17	12.50	39.67	55.16	-15.49	AVG
3	0.2340	39.15	12.50	51.65	62.31	-10.66	QP
4	0.2340	20.69	12.50	33.19	52.31	-19.12	AVG
5	1.8380	33.36	13.00	46.36	56.00	-9.64	QP
6	1.8380	21.12	13.00	34.12	46.00	-11.88	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	41.92	12.50	54.42	63.86	-9.44	QP
2	0.1940	29.29	12.50	41.79	53.86	-12.07	AVG
3	0.2580	38.58	12.50	51.08	61.50	-10.42	QP
4	0.2580	23.90	12.50	36.40	51.50	-15.10	AVG
5*	3.8660	34.00	13.00	47.00	56.00	-9.00	QP
6	3.8660	19.79	13.00	32.79	46.00	-13.21	AVG

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