

## Yang, Viola-xx (Shenzhen)

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**From:** oetech@fcc.gov  
**Sent:** 2017年11月28日星期二 23:20  
**To:** Geng, Peter (Shenzhen)  
**Subject:** Response to Inquiry to FCC (Tracking Number 490077)

### **Inquiry on 11/16/2017 :**

#### **Inquiry:**

Dear Sir,

This is an engineer from SGS shenzhen China. I have a wireless charger to apply certificate.

It is a Qi wireless charger.

operation frequency: 110-205kHz

coil diameters:45mm

turns number: 12

max. output power 15W

Input: DC 5V/3A, DC  
9V/2A, DC 12V/1.5A

Output: DC 5V/2A, DC  
9V/1.1A, DC 12V/1.25A

An RF exposure evaluation is submitted. please help to check the report is acceptable or not? thanks.

### **FCC response on 11/16/2017**

The operating frequency for this device is 110 kHz to 205 kHz. The restricted band of operation is 90 kHz to 110 kHz. Your device is operating in the restricted band as defined in rule part 15.205. Can you explain this oversight?

---Reply from Customer on 11/17/2017---

Dear Sir,

The wireless charger is a super low output power device and the max. transmit strength meets the limit mentioned in 15.209, so it is ok to operate in this band. Is it right? or please help to give your advice. Thanks very much.

### **FCC response on 11/20/2017**

### **FCC response on 11/20/2017**

The frequency it is operating is illegal. It must operate between, 90 kHz to 109 kHz and not 110 kHz. This is the restricted band of operation.

Let me correct my previous response. You are operating this device in the restricted band of operation. The restricted band of operation is 90 kHz - 110 kHz. The device is transmitting at 110 kHz - 205 KHz. There is an overlap. This is illegal. Your device must not transmit at 110 kHz!

---Reply from Customer on 11/20/2017---

Dear Sir,

I have noted the 110kHz was in restricted band and the device operate in more than 110kHz. There is no overlap between transmitting frequency and restricted band actually.

QI is an new technology in wireless power transfer and FCC has an KDB (680106) to introduce the certify procedure. An RF exposure evaluation report is required for mostly device. I had submittted couples of projects for that reason and all of them are acceptable. Looking forward to you. Thanks.

**FCC response on 11/21/2017**

There is an overlap. It is 110 kHz.

---Reply from Customer on 11/21/2017---

Dear Sir,

updated RF exposure report has submitted. Please help to check it again, thanks.

**FCC response on 11/22/2017**

You have not answered the question. Your device is transmitting in the restricted band of operation for you state that it is transmitting at 110 kHz. This is in the restricted band of operation explain this.

---Reply from Customer on 11/22/2017---

Dear Sir,

I have clarified that the transmit frequency is above 110kHz in previous email and there is no overlap between transmitting frequency and restricted band actually. I have updated the report now. Please help to advise any other question it has? thanks.

**FCC response on 11/24/2017**

Can you provide a graphs showing that the device is not transmitting in 110 kHz?

---Reply from Customer on 11/27/2017---

Dear Sir,

please find attached for graph of the device which transmits above 110kHz.

**FCC response on 11/28/2017**

The graphs indicates that it is indeed not transmitting in the restricted band of operation. Therefore, the item has been reviewed. The TCB may proceed with the grant of the application pending its review of all non-PAG items.

**Attachment Details:**

[RF exposure report](#)

[updated RF exposure report](#)

[updated RF exposure report](#)

[updated RF exposure report](#)

[graph for device which works above 110kHz](#)

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