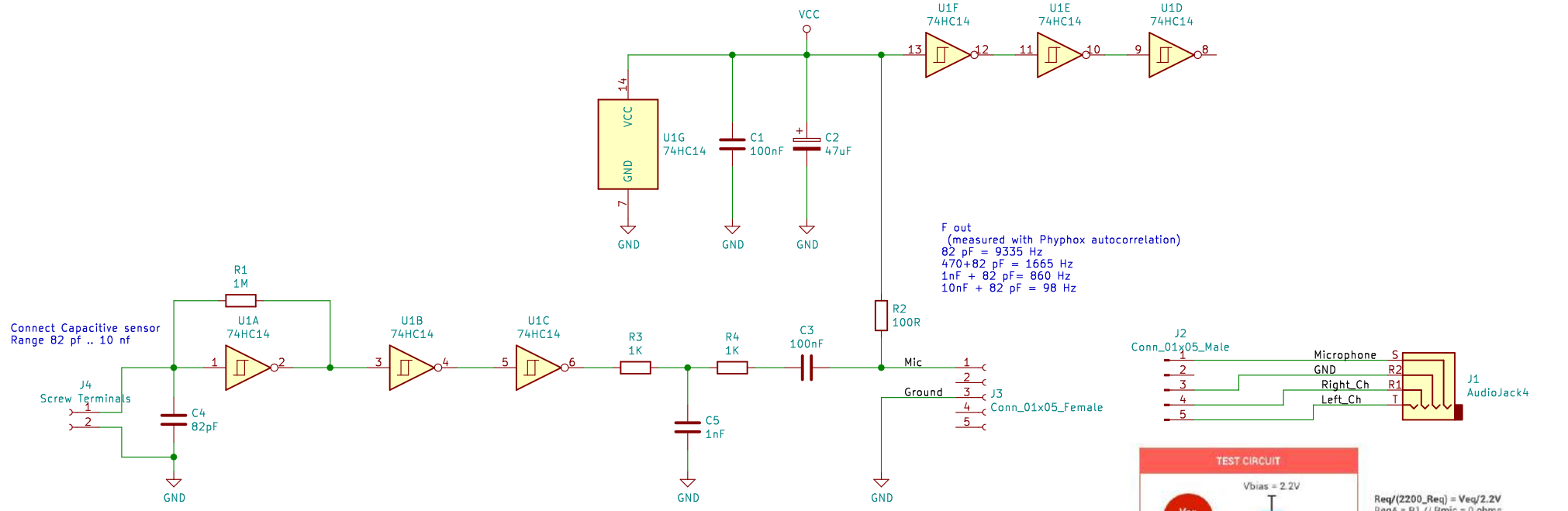
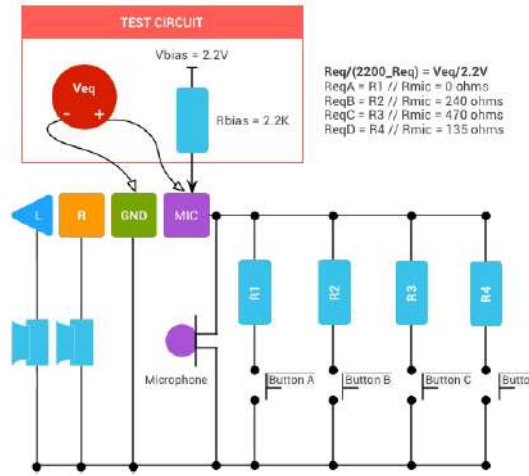
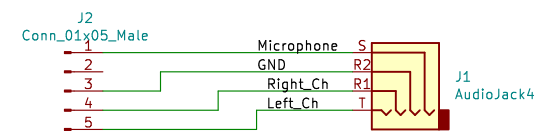


With these dimensionings the VCC measured 2.0V when connected to a Samsung A40



F out  
(measured with Phyphox autocorrelation)  
 82 pF = 9335 Hz  
 470+82 pF = 1665 Hz  
 1nF + 82 pF = 860 Hz  
 10nF + 82 pF = 98 Hz

Connect Capacitive sensor  
Range 82 pf .. 10 nf

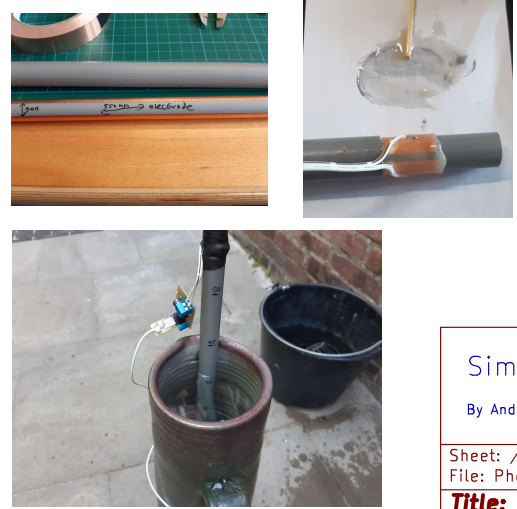
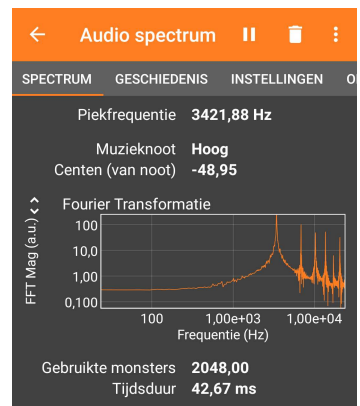
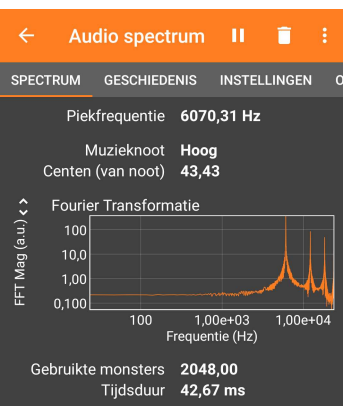


Req(2200\_Req) = Veq/2.2V  
 ReqA = R1 // Rmic = 0 ohms  
 ReqB = R2 // Rmic = 240 ohms  
 ReqC = R3 // Rmic = 470 ohms  
 ReqD = R4 // Rmic = 135 ohms

Test sensor made of 2 x 19 mm x 550 mm strips coppertape on 5/8" PVC Tube inside a 3/4" PVC Tube, sealed with epoxy.

Sensor in free Air

Sensor immersed for 41 cm into water



Simple C to Frequency Converter for smartphone  
 By Andries Lohmeijer PE1BMC

Sheet: /  
 File: Phone\_Interface\_V0.6.sch

**Title:**

Size: A4	Date: 01-06-2020	Rev: V0.6
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