

Operational Description

For Bluetooth:

The transmitter of the EUT (Sound Mixer) is powered by DC 5V from power adapter .

Frequency Range	2402 ~ 2480 MHz			
Modulation Type	GFSK			
Module : ASE				
Antenna information	Brand	Model	Type	Max. Gain (dBi)
	PSA	RFECA3216060A1T	Ceramic Antenna	2
RF Output Power	LE, GFSK: 0.00177 W			
	2LE, GFSK: 0.00366 W			
Max. RF Output Power	GFSK for 1 Mbps		0.00179 W	
	$\pi/4$ -DQPSK for 2 Mbps		0.00274 W	
	8DPSK for 3 Mbps		0.00300 W	

Module : Kirchhoff				
Antenna information	Brand	Model	Type	Max. Gain (dBi)
	TEXAS INSTURMENTS	SWRA117D	PCB Antenna	5.3
Max. RF Output Power	GFSK for 1 Mbps 0.00619 W			
	$\pi/4$ -DQPSK for 2 Mbps 0.00458 W			
	8DPSK for 3 Mbps 0.00504 W			

Maximum Tune-up Power

Operate Band	Frequency (MHz)	ANT 0 (Kirchhoff)	ANT 1 (ASE)
Bluetooth	2402 - 2480	8.00	3.00
Bluetooth LE	2402 - 2480	-	6.00

Test Result

Band	Frequency (MHz)	Distance (cm) [R]	Tune-up Power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle (mW) [P]x[G]	Power Density (mW/cm²) [S]	Standalone Limit (mW/cm²)	Antenna
Bluetooth	2402 - 2480	20.0	8.00	6.31	4.28	1	27.00	0.01	1.00	ANT 0
Bluetooth	2402 - 2480	20.0	6.00	3.98	2.50	1	9.95	0.002	1.00	ANT 1

The other instruction, please have a look at the users manual.