Report No.: NTC1411640F-1

FCC ID: 2ACVCLF31BT

EUT Specification

RF EXPOSURE EVALUATION

EUT	2.0CH WOODEN SPEAKER				
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz				
(Operating)	☐WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz				
	□WLAN: 5.745GHz ~ 5825GHz				
	⊠Others(Bluetooth: 2.402GHz ~ 2.480GHz)				
Device category	☐Portable (<20cm separation)				
	⊠Mobile (>20cm separation)				
	Others				
Antenna diversity	⊠Single antenna				
	☐Multiple antennas				
	☐Tx diversity				
	☐Rx diversity				
	☐Tx/Rx diversity				
Max. output power	-3.05dBm(0.50mW)				
Antenna gain	0dBi (declared by manufacturer)				
Evaluation applied	pplied				
	☐SAR Evaluation				

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)						
(A) Limits for Occupational/Control Exposures									
300-1500			F/300						
1500-100000			5	6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500			F/1500	6					
1500-100000		1		30					

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Friis transmission formula: Pd=(Pout*G)\(4*pi*R²)

Where

Pd= Power density in mW/cm²
Pout=output power to antenna in Mw
G= gain of antenna in linear scale
Pi=3.1416

R= distance between observation point and center of the radiator in cm

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

Channel	Channel	Max	Tolerance	Max	Power	Power		
	Frequency	Output		Tune-UP	density at	density		
	(MHz)	power		power	20cm (mW/	Limits		
		(dBm)		(mW)	cm ²)	(mW/cm ²)		
GFSK								
Low	2402.00	-5.71	±0.1	0.27	5.47e-5	1		
Middle	2441.00	-7.20	±0.1	0.19	3.88e-5	1		
High	2480.00	-8.82	±0.1	0.13	2.67e-5	1		
π/4-DQPSK								
Low	2402.00	-3.56	±0.1	0.45	8.97e-5	1		
Middle	2441.00	-4.46	±0.1	0.37	7.29e-5	1		
High	2480.00	-6.03	±0.1	0.29	5.75e-5	1		
8DPSK								
Low	2402.00	-3.05	±0.1	0.51	1.01e-4	1		
Middle	2441.00	-4.24	±0.1	0.39	7.67e-5	1		
High	2480.00	-5.76	±0.1	0.27	5.40e-5	1		