Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1904035F-1 FCC ID: 2AHU2MA110

RF EXPOSURE EVALUATION

EUT Specification

EUT	GAUGE STYLE STEREO MA110				
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz				
(Operating)	□WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz				
	□WLAN: 5.745GHz ~ 5.825GHz				
	⊠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	-6.220dBm(0.24mW)				
Antenna gain	0dBi				
Evaluation applied					
	☐SAR Evaluation				

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)
300-1500			F/1500
1500-100000			1

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	Gain	Channel Frequency (MHz)	Max Output power (dBm)	Tolerance	Max Tune-UP power (mW)	Power density at 20cm (mW/ cm ²)	Power density Limits (mW/cm ²)		
			GF	SK	(11100)	(IIIVV/ CIII)	(IIIVV/CIII)		
Low	0	2402	-8.668	±0.5	0.15	2.98e-5	1		
Middle	0	2441	-8.627	±0.5	0.15	2.98e-5	1		
High	0	2480	-8.745	±0.5	0.15	2.98e-5	1		
π/4-DQPSK									
Low	0	2402	-6.684	±0.5	0.24	4.77e-5	1		
Middle	0	2441	-6.644	±0.5	0.24	4.77e-5	1		
High	0	2480	-6.733	±0.5	0.24	4.77e-5	1		
8DPSK									
Low	0	2402	-6.279	±0.5	0.26	5.17e-5	1		
Middle	0	2441	-6.220	± 0.5	0.27	5.37e-5	1		
High	0	2480	-6.280	±0.5	0.26	5.17e-5	1		