Dongguan Nore Testing Center Co., Ltd. Report No.: NTC1805366F-1 FCC ID: 2AHU2JMS3

RF EXPOSURE EVALUATION

EUT Specification

EUT	AM/FM/WX/USB/BT/AUX IN Radio					
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz					
(Operating)						
	□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	-0.69dBm(0.85mW)					
Antenna gain	0dBi					
Evaluation applied	⊠MPE Evaluation					
	☐SAR Evaluation					

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power Density	
Range(MHz)	Strength(V/m)	Strength(A/m)	(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	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)	
Test mode: GFSK							
Low	2402	-0.69	±0.1	0.87	1.74e-4	1	
Middle	2441	-1.22	±0.1	0.77	1.54e-4	1	
High	2480	-2.17	±0.1	0.62	1.24e-4	1	
Test mode:π/4-DQPSK							
Low	2402	-1.45	±0.1	0.73	1.46e-4	1	
Middle	2441	-2.03	±0.1	0.64	1.28e-4	1	
High	2480	-3.04	±0.1	0.51	1.01e-4	1	
Test mode: 8DPSK							
Low	2402	-1.42	±0.1	0.74	1.47e-4	1	
Middle	2441	-1.98	±0.1	0.65	1.29e-4	1	
High	2480	-2.96	±0.1	0.52	1.03e-4	1	