Report No.: NTC1501109F-1

FCC ID: 2AD83001

EUT Specification

RF EXPOSURE EVALUATION

EUT	Pod Live			
Frequency band	□WLAN: 2.412GHz ~ 2.462GHz			
(Operating)	□WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz			
	□WLAN: 5.745GHz ~ 5825GHz			
	824MHz ~ 849MHz			
	⊠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	For GSM: 29.01dBm(796mW)			
	For BLE: -0.38dBm(0.92mW)			
Antenna gain	For GSM: 0dBi; For BLE: 0dBi			
	(declaration by manufacturer)			
Evaluation applied				
	☐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		6					
1500-100000			5	6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500			F/1500	6					
1500-100000			1	30					

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.

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Measurement Result

Channel	Channel	Max	Tune up	Max	Gain	Power	Power			
	Frequency	Output	power	Tune-UP		density at	density			
	(MHz)	power	(dBm)	power		20cm	Limits			
		(dBm)		(mW)		(mW/ cm ²)	(mW/cm ²)			
	Test Mode: BLE									
Low	2402	-1.98	-1±1	1	0	1.99e-4	1			
Middle	2442	-1.04	-1±1	1	0	1.99e-4	1			
High	2480	-0.38	-1±1	1	0	1.99e-4	1			
	Test Mode: Cellular Band Part 22H									
GSM										
128	824.2	28.68	32±1	1995.26	0	0.397	0.549			
189	836.4	28.43	32±1	1995.26	0	0.397	0.549			
251	848.8	28.52	32±1	1995.26	0	0.397	0.549			
		Test Mo	de: Cellula	r Band Part	22H					
			GPR	S						
128	824.2	29.01	32±1	1995.26	0	0.397	0.549			
189	836.4	28.37	32±1	1995.26	0	0.397	0.549			
251	848.8	28.46	32±1	1995.26	0	0.397	0.549			
Test Mode: Cellular Band Part 24H										
			GSN	Λ						
512	1850.2	24.42	29±1	1000	0	0.199	1			
661	1880.0	24.61	29±1	1000	0	0.199	1			
810	1909.8	22.58	29±1	1000	0	0.199	1			
Test Mode: Cellular Band Part 24H										
GPRS										
512	1850.2	24.60	29±1	1000	0	0.199	1			
661	1880.0	24.47	29±1	1000	0	0.199	1			
810	1909.8	22.13	29±1	1000	0	0.199	1			
										