

January 21, 2016

TUV SUD BABT Octagon House, Concorde Way Segensworth Rd N, Fareham PO15 5RL

Attention: Director of Certification

RE: Analysis of RF Exposure for Fixed and Mobile according to FCC 2.1091 and RSS-102 Issue 5 March 2015.

FCC ID: XTE-ULPAP310 IC: 8655A-ULPAP310

1. Mobile MPE Calculation Summary using a 36cm separation distance:

Mode	Output Power (dBm)	Power Density (mW/cm²)
Low Sub Band	29.98	0.4855
High Sub Band	29.85	0.4712

2. Co-Located Transmitters transmission table:

Transmitter type	Transmitter type that can transmit at the same time
Low Sub Band	High Sub Band
High Sub Band	Low Sub Band

3. Simultaneous Transmission MPE:

Transmitter type	MPE (mW/cm²)	Limit (mW/cm²)	MPE ratio (MPE/Limit)
Low Sub Band	0.4855	1.0	0.4855
High Sub Band	0.4712	1.0	0.4712
Sum of the ratios (should be <1.0)		0.9567	



4. Mobile MPE Calculation using a 36cm separation distance (Low Sub Band):

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic

R = distance to the center of radiation of the antenna

29.98 (dBm)	Maximum peak output power at antenna input terminal:	
995.41 (mW)	Maximum peak output power at antenna input terminal:	
9 (dBi)	n(typical):	
7.943 (numeric)	enna gain:	
36 (cm)	distance:	
100 (%)	uty Cycle:	Sourse Based T
2405.98 (MHz)	requency:	
1.000 (mW/cm ²)	MPE limit for uncontrolled exposure at prediction frequency:	
0.4855 (mW/cm ²)	requency:	Power density
4.855 (W/m ²)	requency:	Power density

Margin of Compliance:

-3.14

(dB)

5. Mobile MPE Calculation using a 36cm separation distance (High Sub Band):

Maximum peak output power at antenna input terminal:	29.85	(dBm)
Maximum peak output power at antenna input terminal:	966.05	(mW)
Antenna gain(typical):	9	(dBi)
Maximum antenna gain:	7.943	(numeric)
Prediction distance:	36	(cm)
Sourse Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	2473.64	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm^2)
Power density at prediction frequency:	0.4712	(mW/cm^2)
Power density at prediction frequency:	4.712	(W/m ²)
Margin of Compliance:	-3.27	(dB)



Sincerely,

Nama

Authorized Signatory

Title: EMC/Wireless Test Engineer