SAR test exclusion

Date: 19 Apr 2016

Subject: SAR test exclusion for: 2AGGH-EMB

Pursuant to KDB 447498 D01 General RF Exposure Guidance v06, the applicant requests SAR test to be excluded

Applicable conditions:
- 1-g head or body, as the device can be temporarily in proximity to head or body despite it is worn on the wrist (e.g. while sleeping)
- 100MHz to 6 GHz and test separation distance ≤ 50mm
- continuous Bluetooth communication at maximum power
- maximum output power of 5.0mW (=7dBm), as specified in Table 4.1 *"RF Characteristics"* of Toshiba Corporation *"TZ1000 Series Reference Manual - Bluetooth® Low Energy"*

Table 4.1 RF Characteristics

Test Purposes No.	Test Item	Sub Item	Packet	bit	ch	Condition	Unit	min	Typ.	max
TRM-LE/CA/01/C (Output power at NOC)	Output Power		37 octets	PRBS9	0,12, 19,39	peak	[dBm]			Pavg + 3 dB
TRM-LE/CA/02/C (Output power at EOC)						average		-4	-1	4
TRM-LE/CA/03/C (In-band emissions at NOC)	In-band Spurious Emissions		37 octets	PRBS9	0,2, 12, 19,37, 39	-5 MHz	[dBm]			-30
						-4 MHz				-30
						-3 MHz				-30
						-2 MHz				-20
TRM-LE/CA/04/C (In-band emissions at EOC)						2 MHz				-20
						3 MHz				-30
						4 MHz				-30
						5 MHz				-30
TRM-LE/CA/05/C (Modulation Characteristics)	Modulation Characteristics			11110000	0,12, 19,39	Δf1avg (11110000)	[kHz]	225	250	275
			37 octets	10101010		Δf2max (min-min) (10101010)		185	225	
						Δf2avg /Δf1avg	Ratio	0.8	0.9	
TRM-LE/CA/06/C (Carrier frequency offset and drift at NOC)	Carrier frequency offset (CFO)		37 octets	10101010	0,12, 19,39	ave.	[kHz]	-150	0	150
						max			0	
	Drift		37 octets	10101010		abs.max.	[kHz]		0	50
TRM-LE/CA/07/C (Carrier frequency offset and drift at EOC)	Drift Rate		37 octets	10101010		abs.max.	[kHz/50µs]		5	20
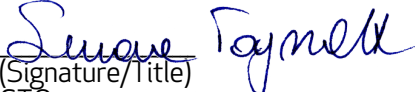
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0

5mW/5mm · √2.48GHz ≤ 3.0

1.6 ≤ 3.0

Sincerely,

By: _(Signature/Title)_ Simone Tognetti (Print name)

Title: CTO