RF Exposure Evaluation

Test report
On Behalf of
Shenzhen Newcarry Technology Co.,Ltd
For
SOUNDBAR
Model No.: GD19, GD-19, GD19S, GD19L, GD19M, GD19MB, GD/HD**
(Represents 1-99 numbers or A-Z letters)**

FCC ID: 2AVUB-GD19XN

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1 General Description of EUT

Product Name:	SOUNDBAR
Model/Type reference:	GD19
Serial Model:	GD-19, GD19S, GD19L, GD19M, GD19MB, GD/HD** (** Represents 1-99 numbers or A-Z letters)
Model Difference	All models have the same functionality, software and electronics, only the frame shape and model names may differ. Test sample model: GD19
Trade Mark	N/A
FCC ID	2AVUB-GD19XN
Hardware Version:	V1.0
Software Version:	V1.5
Version:	Supported EDR
Modulation:	GFSK, π/4DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79CH
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	0 dBi
Power supply:	19V 2.5A from adapter

2 RF Exposure Compliance Requirement

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ **3.0** for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearset mW and mm before calcution

The results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3 EUT RF Exposure

Antenna Gain: 0Bi

For Bluetooth:

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.176	-2±1	-1	0.794	0.246	3.0
Middle (2441MHz)	-1.994	-2±1	-1	0.794	0.248	
Highest (2480MHz)	-2.303	-2±1	-1	0.794	0.250	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

π /4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.042	-1±1	0	1.000	0.310	3.0
Middle (2441MHz)	-0.862	-1±1	0	1.000	0.312	
Highest (2480MHz)	-1.156	-1±1	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2003020203-E