# **Safety Human Exposure**

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT: Pass

Report No. : CN23SIP4 002

**Test Specification** 

Test item : Hand Held Barcode Scanner

Identification / Type No. : BSH-20B, NLS-HR20-BT, NLS-HR22-BT

FCC ID : SL9BSH-20B IC : 29936-BSH20B

HVIN : BSH-20B, NLS-HR20-BT, NLS-HR22-BT

PMN : Hand Held Barcode Scanner

Test standard : CFR47 FCC Part 2: Section 2.1093

CFR47 FCC Part 1: Section 1.1310

FCC KDB 447498 D04 Interim General RF Exposure

Guidance v01 RSS-102 Issue 5

### > FCC Part 1.1310, Part 2.1093

The maximum power of the transmitter is -4.0 dBm  $\approx$  0.40 mW < 1mW, As per section 2.1.2\_1-mW Test Exemption of KDB 447498 D04, EUT is excluded from SAR evaluation.

#### > RSS-102 section 2.5.1.

 $\begin{tabular}{ll} Table 1: SAR evaluation - Exemption limits for routine evaluation based \\ on frequency and separation distance \end{tabular}^{4,5}$ 

Frequency	Exemption Limits (mW)						
(MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm		
≤300	71 mW	101 mW	132 mW	162 mW	193 mW		
450	52 mW	70 mW	88 mW	106 mW	123 mW		
835	17 mW	30 mW	42 mW	55 mW	67 mW		
1900	7 mW	10 mW	18 mW	34 mW	60 mW		
2450	4 mW	7 mW	15 mW	30 mW	52 mW		
3500	2 mW	6 mW	16 mW	32 mW	55 mW		
5800	1 mW	6 mW	15 mW	27 mW	41 mW		

Frequency	Exemption Limits (mW)					
(MHz)	At separation	At separation	At separation	At separation	At separation	
	distance of	distance of	distance of	distance of	distance of	
	30 mm	35 mm	40 mm	45 mm	≥50 mm	
≤300	223 mW	254 mW	284 mW	315 mW	345 mW	
450	141 mW	159 mW	177 mW	195 mW	213 mW	
835	80 mW	92 mW	105 mW	117 mW	130 mW	
1900	99 mW	153 mW	225 mW	316 mW	431 mW	
2450	83 mW	123 mW	173 mW	235 mW	309 mW	
3500	86 mW	124 mW	170 mW	225 mW	290 mW	
5800	56 mW	71 mW	85 mW	97 mW	106 mW	

**EUT RF Exposure Evaluation standalone operations** 

	Operating Mode	*Max. Power incl. tune-up (dBm)	Antenna Gain (dBi)	Distance (cm)	The higher of the conducted Power or e.i.r.p. (mW)	Threshold power (mW)	Verdict
	BLE	-4.0	2.0	0.5	0.631	4	Pass
Conclusion: SAR test is exempted.							