

# Safety Human Exposure

## 1.1 Radio Frequency Exposure Compliance

### 1.1.1 Electromagnetic Fields

RESULT:

Pass

<b>Report No.</b>	: <b>CN22J919 002</b>
<b>Test Specification</b>	
Test item	: Hand Held Barcode Scanner
Identification / Type No.	: BSH-32B, NLS-HR32-BT
FCC ID	: SL9BSH-32B
IC	: 29936-BSH32B
HVIN	: BSH-32B, NLS-HR32-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  $-0.70 \text{ dBm} \approx 0.85 \text{ mW} < 1 \text{ mW}$ , 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.**

**Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance<sup>4,5</sup>**

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of $\leq 5 \text{ mm}$	At separation distance of $10 \text{ mm}$	At separation distance of $15 \text{ mm}$	At separation distance of $20 \text{ mm}$	At separation distance of $25 \text{ mm}$
$\leq 300$	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 (MHz)	Exemption Limits (mW)				
	At separation distance of $30 \text{ mm}$	At separation distance of $35 \text{ mm}$	At separation distance of $40 \text{ mm}$	At separation distance of $45 \text{ mm}$	At separation distance of $\geq 50 \text{ mm}$
$\leq 300$	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	-0.7	2.0	0.5	1.35	4	Pass
Conclusion: SAR test is exempted.						