5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

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- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

5.2 Measurement Result:

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For NFC, the power of EUT: E Field@3m is 77.08dBuV/m =-18.12 dBm(0.015mW) Note: E[dB\muV/m] = EIRP[dBm] + 95.2 for d = 3 m.
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SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50mm

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= [474*(1 + \log(100/f_{(MHz)}))]/2
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=443 mW

>0.015mW

Note: the output power of NFC is far less than SAR test exclusion threshold, so SAR estimation is very low, consider simultaneous transmission Bluetooth/BLE and NFC is not necessary.

Result: Compliant.