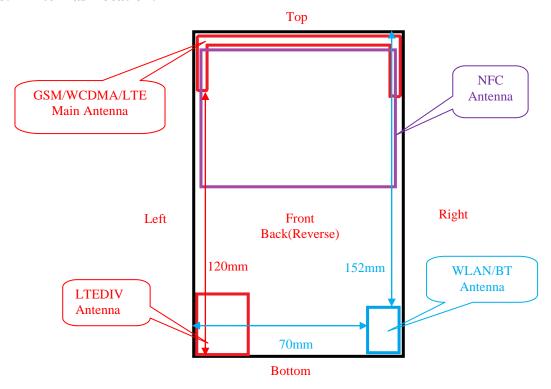
8. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

8.1 Antennas Location:



Note: The LTE DIV antenna can not transmit, and is receiving only.

8.2 Antenna Distance To Edge

Antenna Distance To Edge(mm)											
Antenna	Back	Front	Left	Right	Тор	Bottom					
WWAN Antenna(GSM/WCDMA/LTE)	< 5	< 5	< 5	< 5	< 5	120					
WLAN/BT Antenna	< 5	< 5	70	< 5	152	< 5					

8.3 Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion	
Wi-Fi 2.4G	2462	12.9	19.5	0	6.1	3	NO	
Bluetooth	2480	9.0	7.94	0	2.5	3	YES	

Note: The WLAN based average power for calculation. and bluetooth based peak output power for calculation.

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NOTE:

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

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

- 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 $[1 + \log(100/f(MHz))]$
- 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

Measurement Result:

For NFC, the power of EUT: E Field@3m is 64.44dBuV/m = -30.76dBm (0.0008mW) Note: $E[dB\mu V/m] = EIRP[dBm] + 95.2$ for d = 3 m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50mm

 $=[474*(1 + \log(100/f(MHz)))]/2$

= 443 mW

>0.0008mW

Conclusion:

The NFC SAR evaluation can be exempted.

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