

Appendix D. SAR Test Setup Photos

Body Exposure Condition



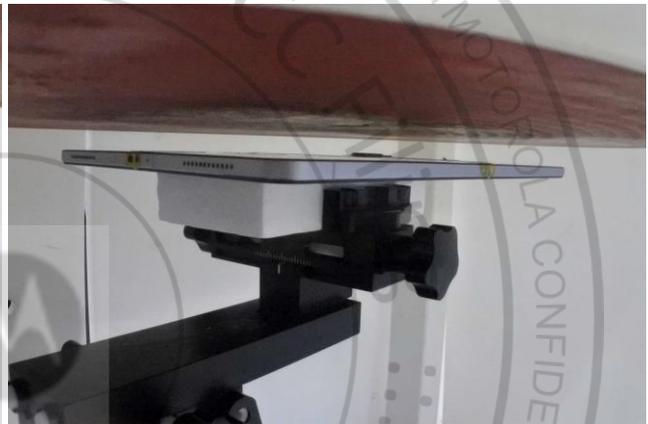
Bottom Face, Test Separation 0 mm



Edge1, Test Separation 0 mm



Edge2, Test Separation 0 mm

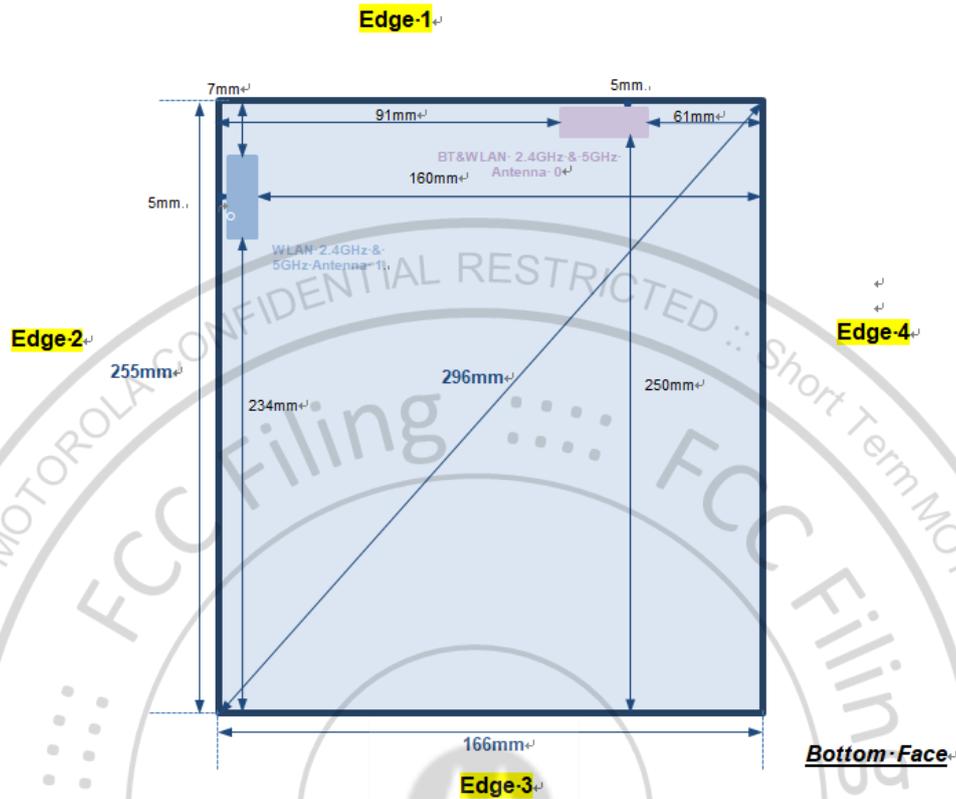


Bottom Face, Test Separation 10 mm (Sensor off)



Edge1, Test Separation 10 mm (Sensor off)

Antenna Location



<SAR test exclusion table>

General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
5. Per KDB 447498 D01v06, 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
6. Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz



Exposure Position	Wireless Interface	BT	2.4GHz WLAN ANT 0	2.4GHz WLAN ANT 1	2.4GHz WLAN ANT 1+2	5GHz WLAN ANT 0	5GHz WLAN ANT 1	5GHz WLAN ANT 1+2
	Calculated Frequency	2480MHz	2462MHz	2462MHz	2462MHz	5825MHz	5825MHz	5825MHz
	Maximum power (dBm)	11	19	13.5	19	17.5	7.5	18
	Maximum rated power(mW)	13.0	79.0	22.0	79.0	56.0	6.0	63.0
Bottom Face	Separation distance(mm)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	exclusion threshold	4.1	24.8	6.9	24.8	27.0	2.9	30.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	No	Yes
Edge 1	Separation distance(mm)	5.0	5.0	7.0	5.0	5.0	7.0	5.0
	exclusion threshold	4.1	24.8	4.9	24.8	27.0	2.1	30.4
	Testing required?	Yes	Yes	Yes	Yes	Yes	No	Yes
Edge 2	Separation distance(mm)	91.0	91.0	5.0	5.0	91.0	5.0	5.0
	exclusion threshold	505.0	506.0	6.9	24.8	472.0	2.9	30.4
	Testing required?	No	No	Yes	Yes	No	No	Yes
Edge 3	Separation distance(mm)	250.0	250.0	234.0	234.0	250.0	234.0	234.0
	exclusion threshold	2095.0	2096.0	1936.0	1936.0	2062.0	1902.0	1902.0
	Testing required?	No	No	No	No	No	No	No
Edge 4	Separation distance(mm)	61.0	61.0	160.0	61.0	61.0	160.0	61.0
	exclusion threshold	205.0	206.0	1196.0	206.0	172.0	1162.0	172.0
	Testing required?	No	No	No	No	No	No	No

