

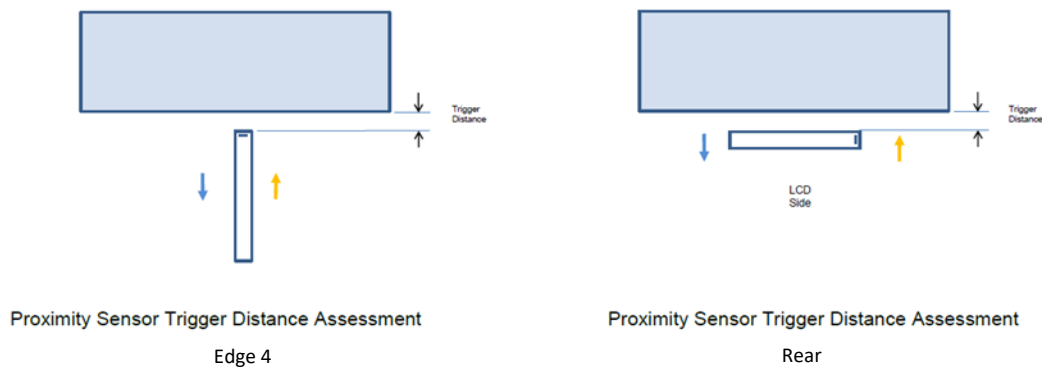
# Proximity sensor verification

## The general

We confirmed the sensor trigger distance of FZ-G2

## Proximity Sensor Triggering distance from KDB 616217 Section 6.2

Edge 4 of the DUT was placed directly below the flat phantom. The DUT was moved toward the phantom in accordance with the steps outlined in KDB 616217 Section 6.2 to determine the trigger distance for enabling power reduction. The DUT was moved away from the phantom to determine the trigger distance for resuming full power. The measurement was then repeated for the Rear surface.



| Tissue<br>simulating<br>liquid      | Trigger distance - Edge 4   |                           | Trigger distance - Rear     |                           | Trigger distance<br>– Rear Tilt(Edge4 side) |                           |
|-------------------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|---------------------------------------------|---------------------------|
|                                     | Moving<br>toward<br>phantom | Moving<br>from<br>phantom | Moving<br>toward<br>phantom | Moving<br>from<br>phantom | Moving<br>toward<br>phantom                 | Moving<br>from<br>phantom |
| 750/900<br>1750/1900/2400<br>muscle | 20 mm                       | 20 mm                     | 10 mm                       | 10 mm                     | 10 mm                                       | 10 mm                     |

Unit : mm

### 【Test distance】

Edge 4 : 750/900 /1750/1900/2400 muscle 19 mm

Rear : 750/900/1750/1900/2400 muscle 9 mm

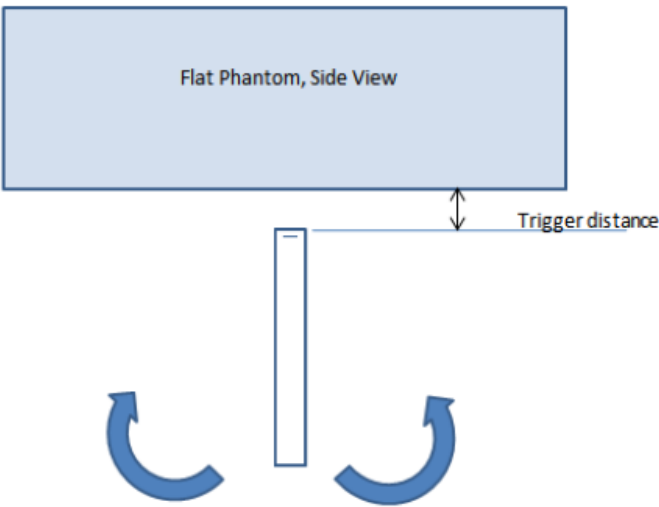
Rear Tilt (Edge4 side) : 750/900/1750/1900/2400 muscle 9 mm

Proximity Sensor Coverage from KDB 616217 Section 6.3

As there is no spatial offset between the antenna and the proximity sensor element, except on the display side of the antenna, proximity sensor coverage did not need to be assessed.

Proximity Sensor Tilt Angle from KDB 616217 Section 6.4

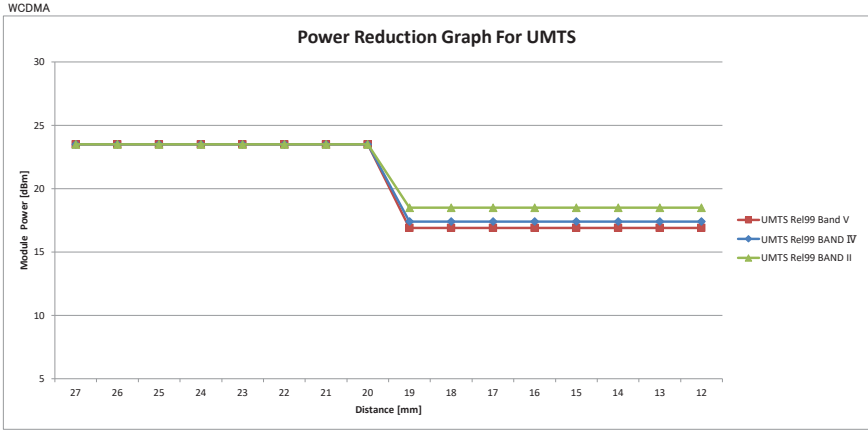
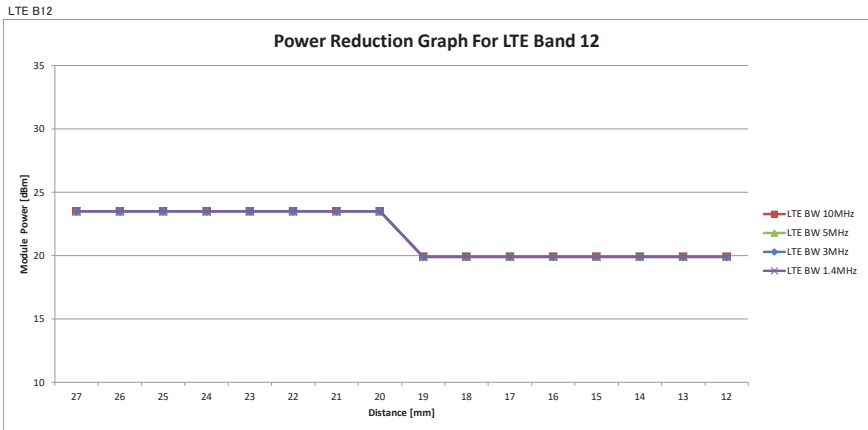
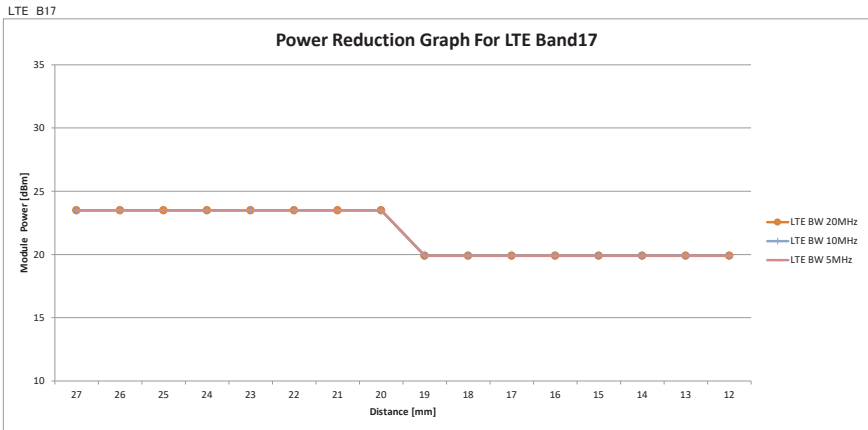
The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with edge 4 parallel to the base of the flat phantom. The DUT was rotated in both directions about edge 4. The proximity sensor remained triggered with the DUT positioned at the minimum measured trigger distance from the phantom for all angles up to 45°



Verification Equipment list

| Model                                           | Manufacturer                 |
|-------------------------------------------------|------------------------------|
| BLAPV1 - Block LAP Phantom V1                   | Schmid & Partner Engineering |
| Two-Axis/Four-Axis Stage Controller(SHOT-204MS) | SIGMA KOKI Co.,Ltd           |

## Edge 4 - Moving toward phantom

[illegible][illegible][illegible]

| Distance [mm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|-------------------|
| 27            | 23.5               | 23.5              |
| 26            | 23.5               | 23.5              |
| 25            | 23.5               | 23.5              |
| 24            | 23.5               | 23.5              |
| 23            | 23.5               | 23.5              |
| 22            | 23.5               | 23.5              |
| 21            | 23.5               | 23.5              |
| 20            | 23.5               | 23.5              |
| 19            | 19.5               | 19.5              |
| 18            | 19.5               | 19.5              |
| 17            | 19.5               | 19.5              |
| 16            | 19.5               | 19.5              |
| 15            | 19.5               | 19.5              |
| 14            | 19.5               | 19.5              |
| 13            | 19.5               | 19.5              |
| 12            | 19.5               | 19.5              |

[illegible]

**Power Reduction Graph For LTE Band 14**

| Distance [mm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|-------------------|
| 27            | 24.0               | 24.0              |
| 26            | 24.0               | 24.0              |
| 25            | 24.0               | 24.0              |
| 24            | 24.0               | 24.0              |
| 23            | 24.0               | 24.0              |
| 22            | 24.0               | 24.0              |
| 21            | 24.0               | 24.0              |
| 20            | 24.0               | 24.0              |
| 19            | 19.0               | 18.5              |
| 18            | 19.0               | 18.5              |
| 17            | 19.0               | 18.5              |
| 16            | 19.0               | 18.5              |
| 15            | 19.0               | 18.5              |
| 14            | 19.0               | 18.5              |
| 13            | 19.0               | 18.5              |
| 12            | 19.0               | 18.5              |

[illegible]

**Power Reduction Graph for LTE Band 5**

| Distance [mm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|-------------------|-------------------|---------------------|
| 27            | 23.5               | 23.5              | 23.5              | 23.5                |
| 26            | 23.5               | 23.5              | 23.5              | 23.5                |
| 25            | 23.5               | 23.5              | 23.5              | 23.5                |
| 24            | 23.5               | 23.5              | 23.5              | 23.5                |
| 23            | 23.5               | 23.5              | 23.5              | 23.5                |
| 22            | 23.5               | 23.5              | 23.5              | 23.5                |
| 21            | 23.5               | 23.5              | 23.5              | 23.5                |
| 20            | 23.5               | 23.5              | 23.5              | 23.5                |
| 19            | 17.5               | 17.5              | 17.8              | 17.8                |
| 18            | 17.5               | 17.5              | 17.8              | 17.8                |
| 17            | 17.5               | 17.5              | 17.8              | 17.8                |
| 16            | 17.5               | 17.5              | 17.8              | 17.8                |
| 15            | 17.5               | 17.5              | 17.8              | 17.8                |
| 14            | 17.5               | 17.5              | 17.8              | 17.8                |
| 13            | 17.5               | 17.5              | 17.8              | 17.8                |
| 12            | 17.5               | 17.5              | 17.8              | 17.8                |

[illegible]

**Power Reduction Graph For LTE Band 26**

| Distance [mm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 27            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 26            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 25            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 24            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 23            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 22            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 21            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 20            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 19            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 18            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 17            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 16            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 15            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 14            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 13            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 12            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |

LTE B4

**Power Reduction Graph for LTE Band 4**

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 27            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 26            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 25            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 24            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 23            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 22            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 21            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 20            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 19            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 18            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 17            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 16            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 15            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 14            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 13            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 12            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |

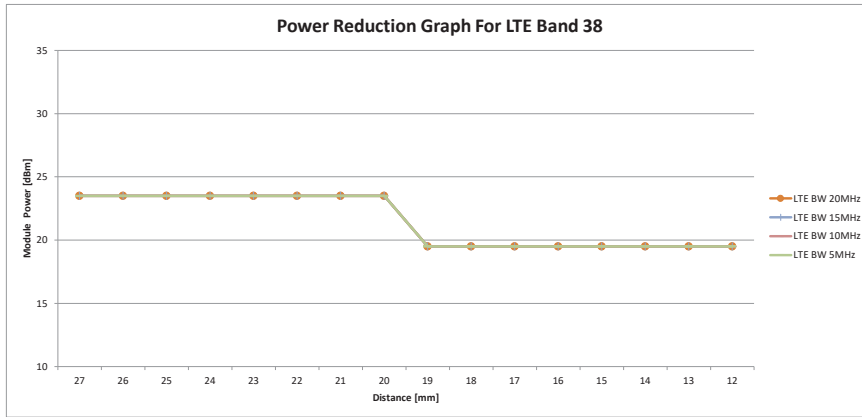
LTE B66

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 27            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 26            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 25            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 24            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 23            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 22            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 21            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 20            | 22.5               | 22.5               | 22.5               | 22.5              | 22.5              | 22.5                |
| 19            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 18            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 17            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 16            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 15            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 14            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 13            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |
| 12            | 17.5               | 17.5               | 17.5               | 17.5              | 17.5              | 17.5                |

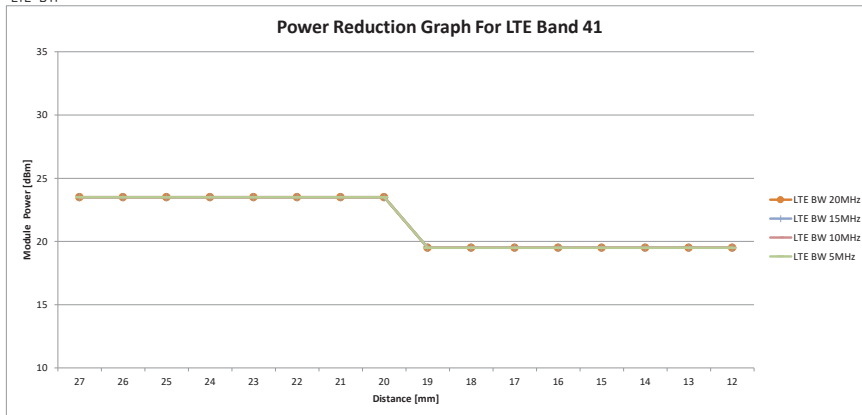
[illegible]



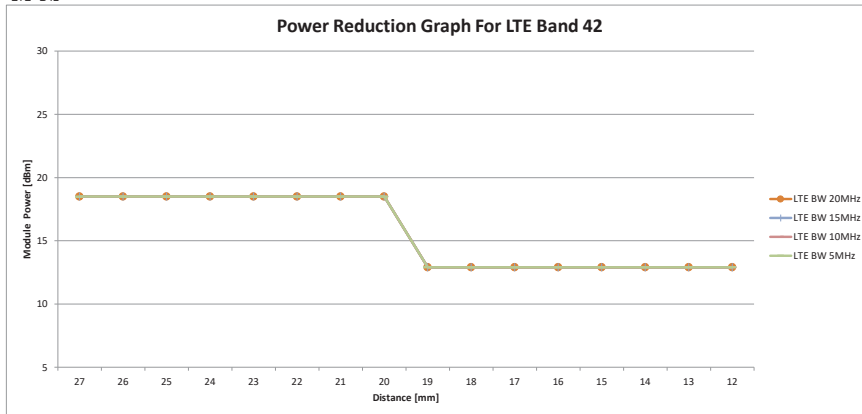
LTE B38

[illegible]

LTE B41

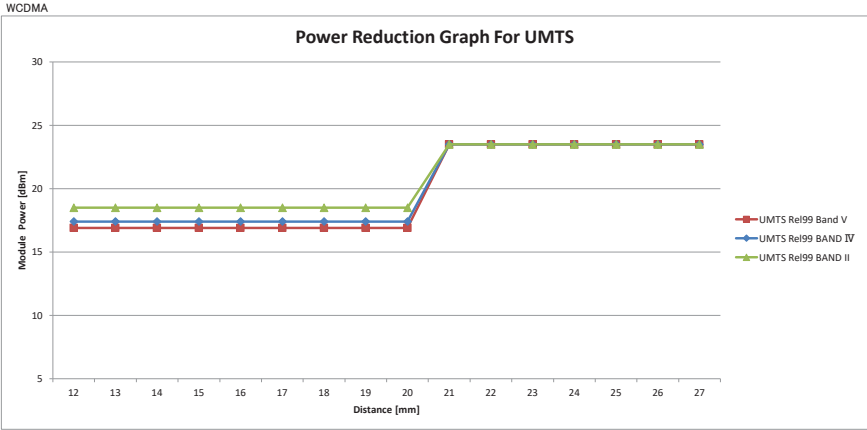
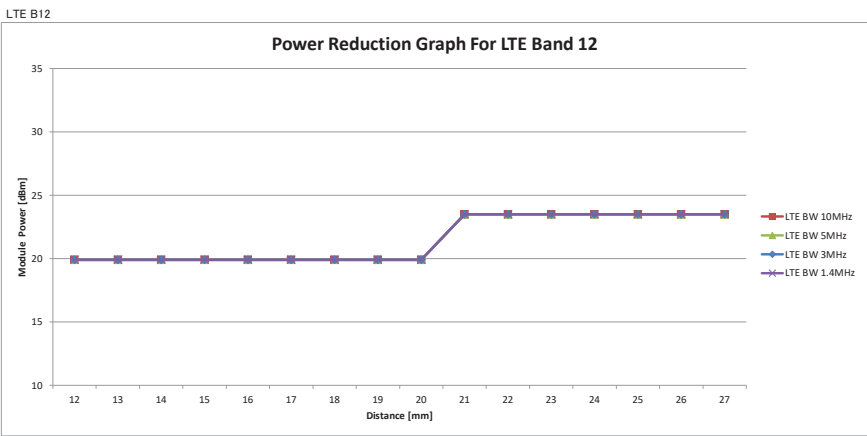
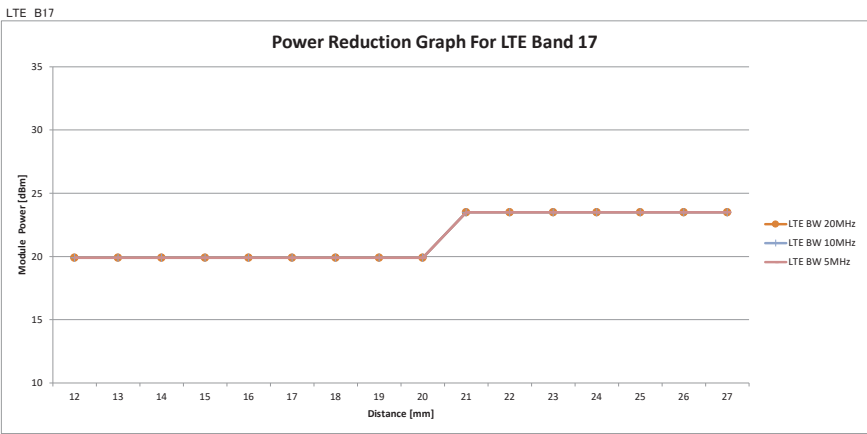
[illegible]

LTE B42

[illegible]

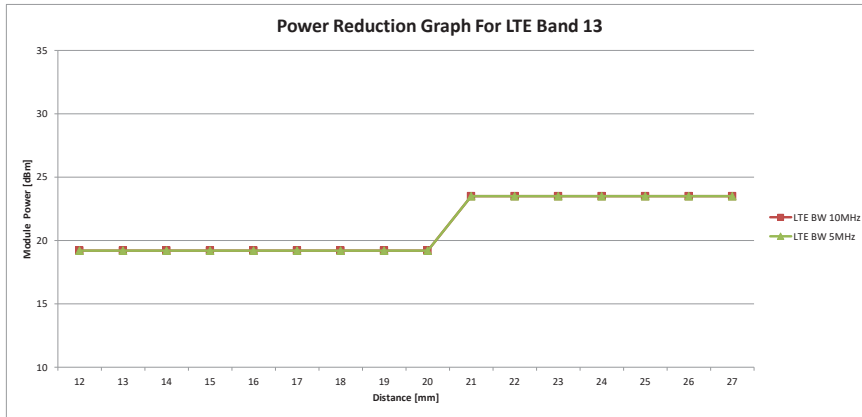
[illegible]

## Edge 4 - Moving from phantom

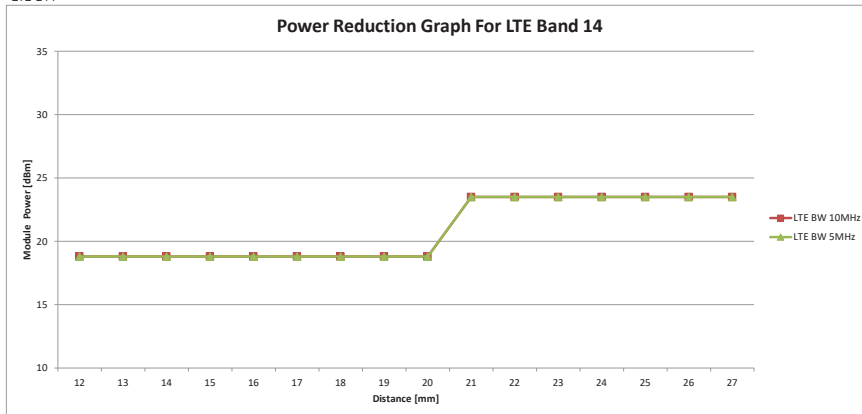
[illegible][illegible]

| Distance     | Coverage Step LTE Band 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |
|--------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
|              | 12                        | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   |  |  |  |  |  |  |  |  |  |  |  |
| DPR          | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |  |  |  |  |  |  |  |  |  |  |  |
| LTE BW 20MHz | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |  |  |  |  |  |  |  |  |  |  |
| LTE BW 10MHz | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |  |  |  |  |  |  |  |  |  |  |
| LTE BW 5MHz  | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |  |  |  |  |  |  |  |  |  |  |

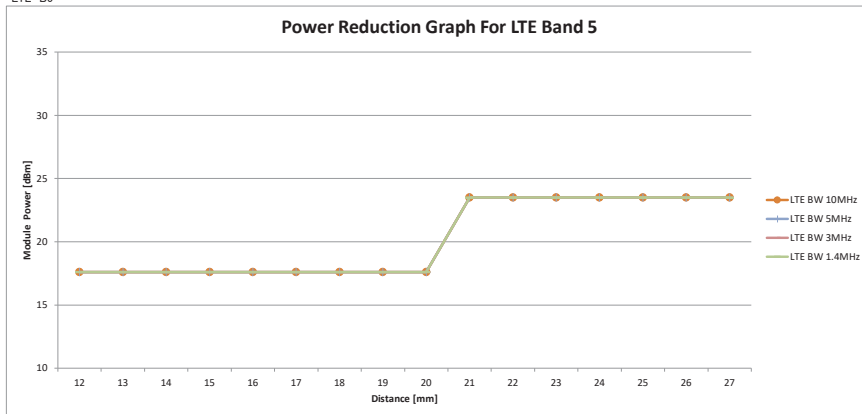
**LTE B13**

[illegible]

LTE B14

[illegible]

LTE B5

[illegible]

**Power Reduction Graph For LTE Band 26**

| Distance [mm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 12            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 13            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 14            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 15            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 16            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 17            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 18            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 19            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 20            | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 21            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 22            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 23            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 24            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 25            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 26            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 27            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |

**Power Reduction Graph for LTE Band 4**

The graph illustrates the power reduction (Module Power [dBm]) as a function of distance (Distance [mm]) for various LTE bandwidths. The Y-axis ranges from 5 to 30 dBm, and the X-axis ranges from 12 to 27 mm. All bandwidths show a consistent power reduction of approximately 17.5 dBm from 12 mm to 20 mm. At 21 mm, the power reduction increases sharply to approximately 22.5 dBm and remains constant for all bandwidths up to 27 mm.

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 12            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 13            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 14            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 15            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 16            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 17            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 18            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 19            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 20            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 21            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 22            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 23            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 24            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 25            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 26            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 27            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |

**Power Reduction Graph For LTE Band 66**

The graph illustrates the relationship between Module Power [dBm] and Distance [mm] for LTE Band 66 across different bandwidths. The power remains constant at approximately 17.5 dBm for distances from 12 mm to 20 mm. At 21 mm, the power increases to approximately 22.5 dBm and remains constant up to 27 mm. The legend indicates the bandwidths for each data series: 20MHz, 15MHz, 10MHz, 5MHz, 3MHz, and 1.4MHz.

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 12            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 13            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 14            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 15            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 16            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 17            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 18            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 19            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 20            | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 21            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 22            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 23            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 24            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 25            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 26            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 27            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |

[illegible]

**Power Reduction Graph for LTE Band 2**

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|---------------------|
| 12            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 13            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 14            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 15            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 16            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 17            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 18            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 19            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 20            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 21            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 22            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 23            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 24            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 25            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 26            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 27            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |

[illegible]

**Power Reduction Graph For LTE Band 25**

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 12            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 13            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 14            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 15            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 16            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 17            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 18            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 19            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 20            | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 21            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 22            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 23            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 24            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 25            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 26            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 27            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |

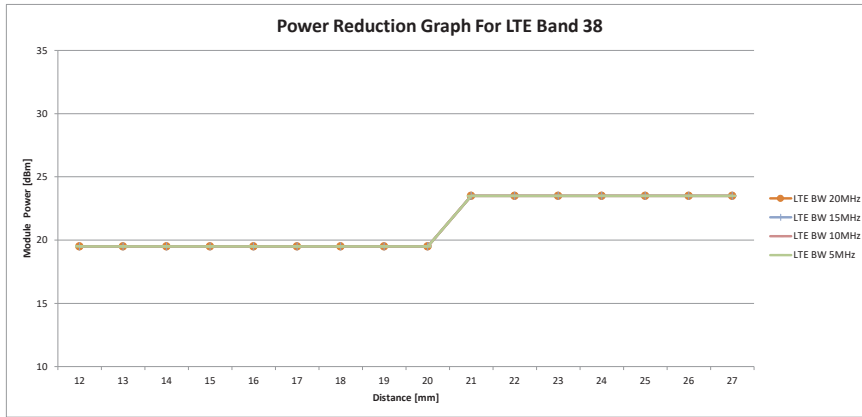
[illegible]

**Power Reduction Graph For LTE Band 7**

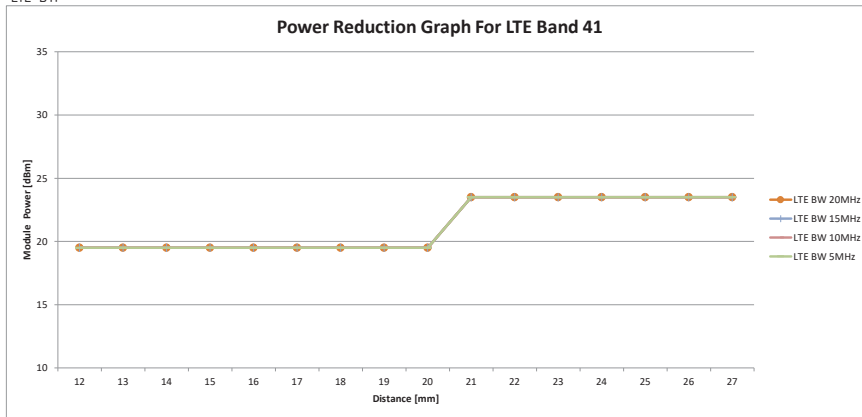
| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|
| 12            | 17.5               | 17.5               | 17.5               | 17.5              |
| 13            | 17.5               | 17.5               | 17.5               | 17.5              |
| 14            | 17.5               | 17.5               | 17.5               | 17.5              |
| 15            | 17.5               | 17.5               | 17.5               | 17.5              |
| 16            | 17.5               | 17.5               | 17.5               | 17.5              |
| 17            | 17.5               | 17.5               | 17.5               | 17.5              |
| 18            | 17.5               | 17.5               | 17.5               | 17.5              |
| 19            | 17.5               | 17.5               | 17.5               | 17.5              |
| 20            | 17.5               | 17.5               | 17.5               | 17.5              |
| 21            | 23.5               | 23.5               | 23.5               | 23.5              |
| 22            | 23.5               | 23.5               | 23.5               | 23.5              |
| 23            | 23.5               | 23.5               | 23.5               | 23.5              |
| 24            | 23.5               | 23.5               | 23.5               | 23.5              |
| 25            | 23.5               | 23.5               | 23.5               | 23.5              |
| 26            | 23.5               | 23.5               | 23.5               | 23.5              |
| 27            | 23.5               | 23.5               | 23.5               | 23.5              |

[illegible]

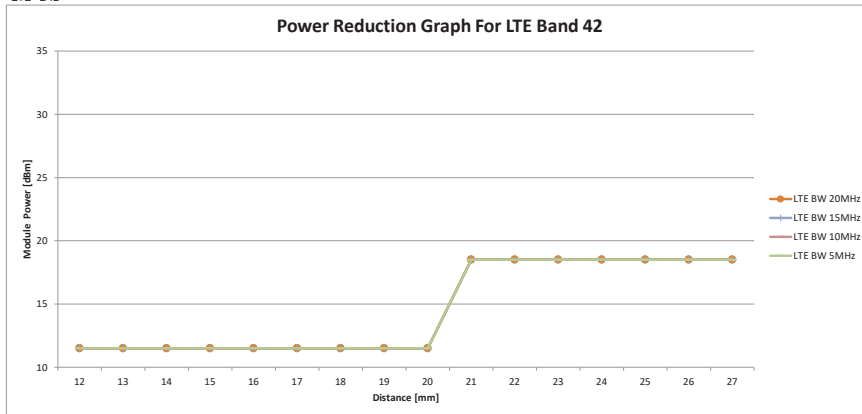
LTE B38

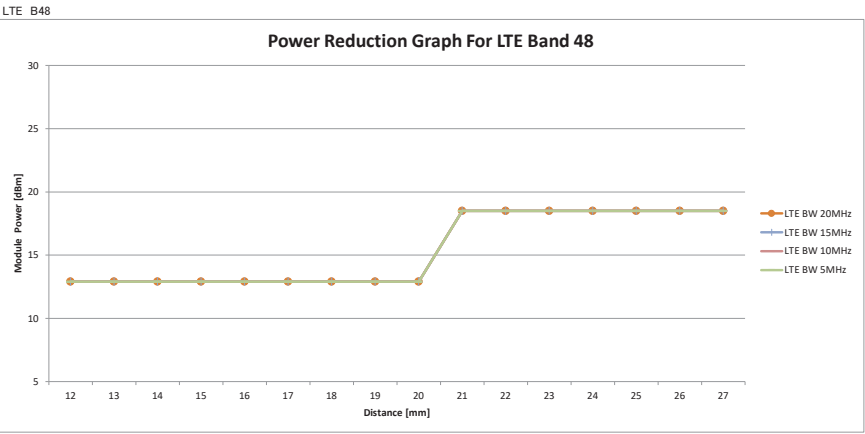
[illegible]

LTE B41

[illegible]

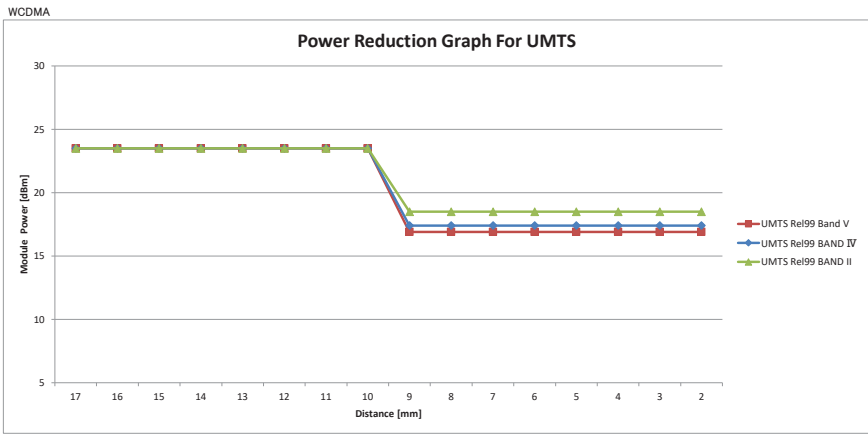
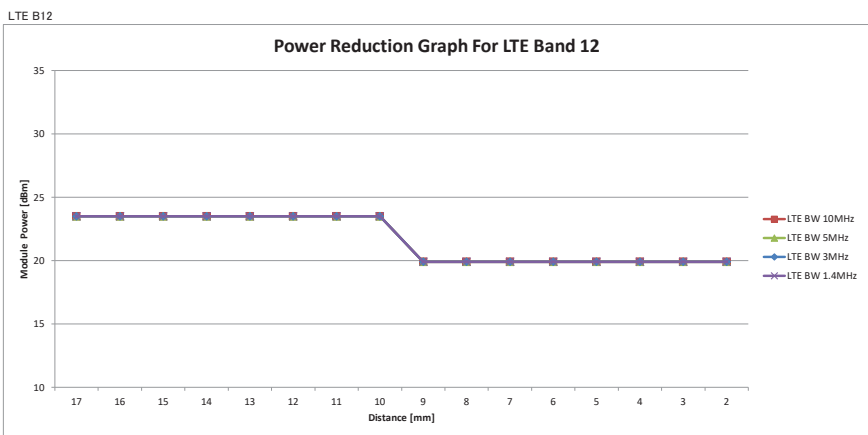
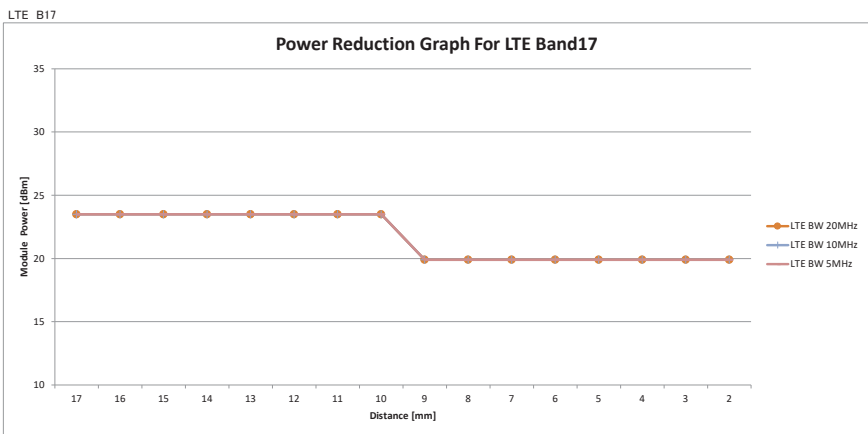
LTE B42

[illegible]

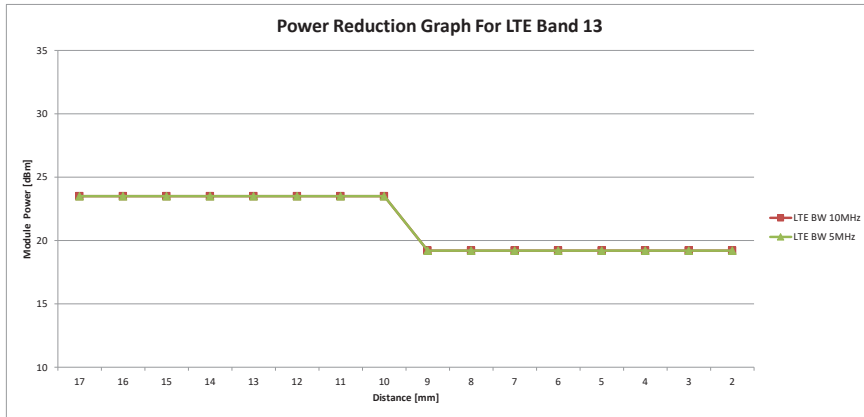


|              | Coverage Step LTE Band 48 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Distance     | 12                        | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   |
| DPR          | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |
| LTE BW 20MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |
| LTE BW 15MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |
| LTE BW 10MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |
| LTE BW 5MHz  | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |

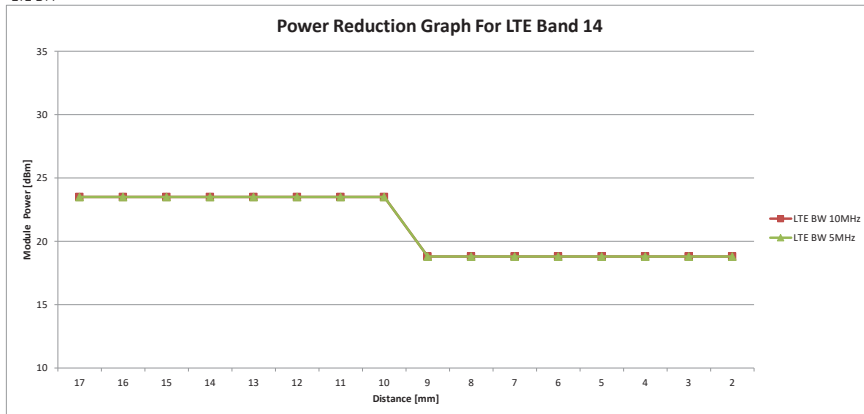
## Rear/Rear Tilt - Moving toward phantom

[illegible][illegible][illegible]

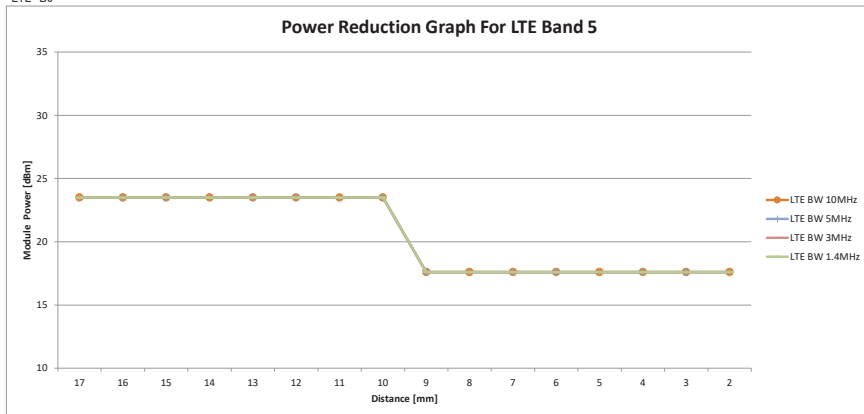
LTE B13

[illegible]

LTE B14

[illegible]

LTE B5

[illegible]

**Power Reduction Graph For LTE Band 26**

| Distance [mm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 17            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 16            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 15            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 14            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 13            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 12            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 11            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 10            | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 9             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 8             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 7             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 6             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 5             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 4             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 3             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |
| 2             | 18.0               | 18.0               | 18.0              | 18.0              | 18.0                |

**Power Reduction Graph for LTE Band 4**

The graph displays the relationship between Module Power [dBm] and Distance [mm] for various LTE bandwidths. The power is consistently higher for larger bandwidths and decreases as the distance from the antenna increases. A significant power reduction is observed between 17mm and 9mm for all bandwidths.

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 17            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 16            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 15            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 14            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 13            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 12            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 11            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 10            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 9             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 8             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 7             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 6             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 5             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 4             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 3             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 2             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |

**Power Reduction Graph For LTE Band 66**

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 17            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 16            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 15            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 14            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 13            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 12            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 11            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 10            | 22.5         | 22.5         | 22.5         | 22.5        | 22.5        | 22.5          |
| 9             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 8             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 7             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 6             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 5             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 4             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 3             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |
| 2             | 17.5         | 17.5         | 17.5         | 17.5        | 17.5        | 17.5          |

[illegible]

**Power Reduction Graph for LTE Band 2**

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|---------------------|
| 17            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 10            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5                |
| 9             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 8             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 7             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 6             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 5             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 4             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 3             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |
| 2             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5                |

**Power Reduction Graph For LTE Band 25**

The graph illustrates the power reduction for various LTE bandwidths (20MHz, 15MHz, 10MHz, 5MHz, 3MHz, and 1.4MHz) as the distance from the antenna decreases from 17mm to 2mm. The power is constant at approximately 23.5 dBm for distances greater than 10mm and then drops sharply at 9mm. The 20MHz bandwidth shows the most significant power reduction, while the 1.4MHz bandwidth shows the least reduction.

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 17            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 16            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 15            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 14            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 13            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 12            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 11            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 10            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 9             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 8             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 7             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 6             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 5             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 4             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 3             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |
| 2             | 18.5         | 18.5         | 18.5         | 18.5        | 20.5        | 23.5          |

**Power Reduction Graph For LTE Band 25**

The graph illustrates the power reduction for various LTE bandwidths (20MHz, 15MHz, 10MHz, 5MHz, 3MHz, and 1.4MHz) as a function of distance (17mm to 2mm). The Y-axis represents Module Power in dBm, ranging from 5 to 30. The X-axis represents Distance in mm, ranging from 17 to 2. All bandwidths show a significant power reduction starting at 9mm, with the 20MHz bandwidth showing the most pronounced drop.

| Distance [mm] | LTE BW 20MHz | LTE BW 15MHz | LTE BW 10MHz | LTE BW 5MHz | LTE BW 3MHz | LTE BW 1.4MHz |
|---------------|--------------|--------------|--------------|-------------|-------------|---------------|
| 17            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 16            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 15            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 14            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 13            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 12            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 11            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 10            | 23.5         | 23.5         | 23.5         | 23.5        | 23.5        | 23.5          |
| 9             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 8             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 7             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 6             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 5             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 4             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 3             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |
| 2             | 18.5         | 18.5         | 18.5         | 18.5        | 18.5        | 18.5          |

**Power Reduction Graph for LTE Band 7**

The graph displays the power reduction for LTE Band 7 across different bandwidths (20MHz, 15MHz, 10MHz, and 5MHz) as a function of distance in millimeters. The Y-axis represents Module Power in dBm, ranging from 10 to 35. The X-axis represents Distance in mm, ranging from 17 to 2. All bandwidths show a consistent power reduction from approximately 23.5 dBm at 17mm to approximately 17.5 dBm at 9mm, after which the power remains constant.

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|
| 17            | 23.5               | 23.5               | 23.5               | 23.5              |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              |
| 10            | 23.5               | 23.5               | 23.5               | 23.5              |
| 9             | 17.5               | 17.5               | 17.5               | 17.5              |
| 8             | 17.5               | 17.5               | 17.5               | 17.5              |
| 7             | 17.5               | 17.5               | 17.5               | 17.5              |
| 6             | 17.5               | 17.5               | 17.5               | 17.5              |
| 5             | 17.5               | 17.5               | 17.5               | 17.5              |
| 4             | 17.5               | 17.5               | 17.5               | 17.5              |
| 3             | 17.5               | 17.5               | 17.5               | 17.5              |
| 2             | 17.5               | 17.5               | 17.5               | 17.5              |

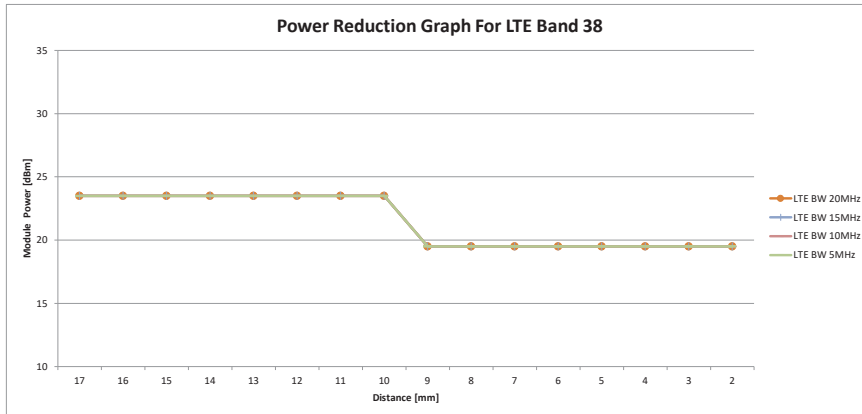
**Power Reduction Graph for LTE Band 7**

The graph displays the power reduction for LTE Band 7 across different bandwidths (20MHz, 15MHz, 10MHz, and 5MHz) as a function of distance in millimeters. The Y-axis represents Module Power in dBm, ranging from 10 to 35. The X-axis represents Distance in mm, ranging from 17 to 2. All bandwidths show a consistent power reduction from approximately 23.5 dBm at 17mm to approximately 17.5 dBm at 9mm, after which the power remains constant.

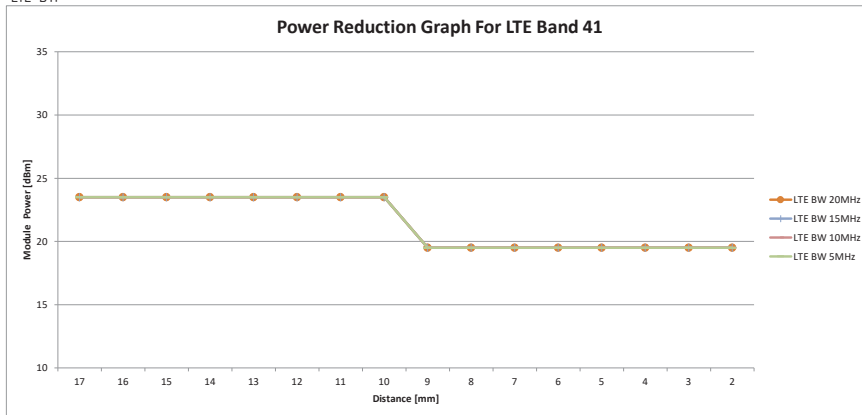
| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|
| 17            | 23.5               | 23.5               | 23.5               | 23.5              |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              |
| 10            | 23.5               | 23.5               | 23.5               | 23.5              |
| 9             | 17.5               | 17.5               | 17.5               | 17.5              |
| 8             | 17.5               | 17.5               | 17.5               | 17.5              |
| 7             | 17.5               | 17.5               | 17.5               | 17.5              |
| 6             | 17.5               | 17.5               | 17.5               | 17.5              |
| 5             | 17.5               | 17.5               | 17.5               | 17.5              |
| 4             | 17.5               | 17.5               | 17.5               | 17.5              |
| 3             | 17.5               | 17.5               | 17.5               | 17.5              |
| 2             | 17.5               | 17.5               | 17.5               | 17.5              |

[illegible]

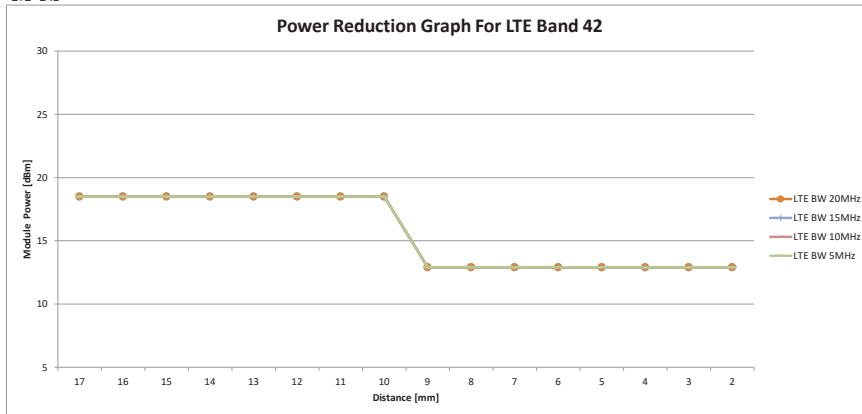
LTE B38

[illegible]

LTE B41

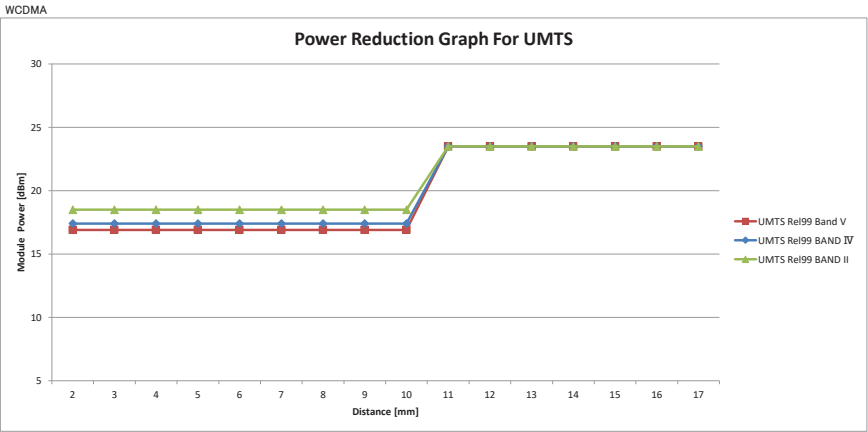
[illegible]

LTE B42

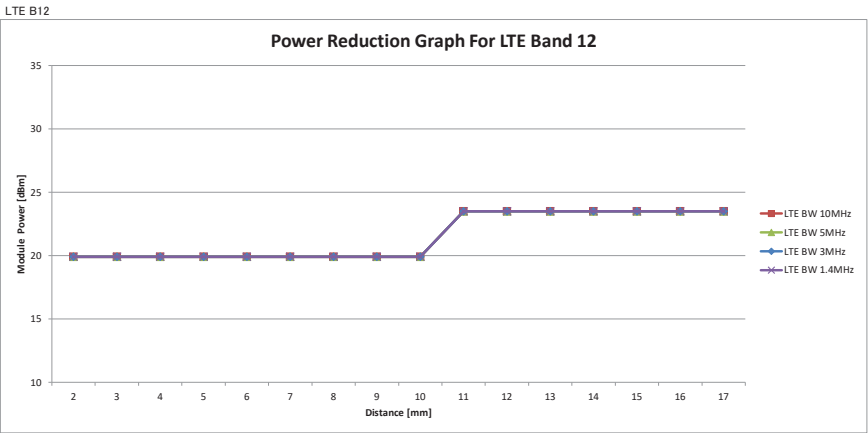
[illegible]

[illegible]

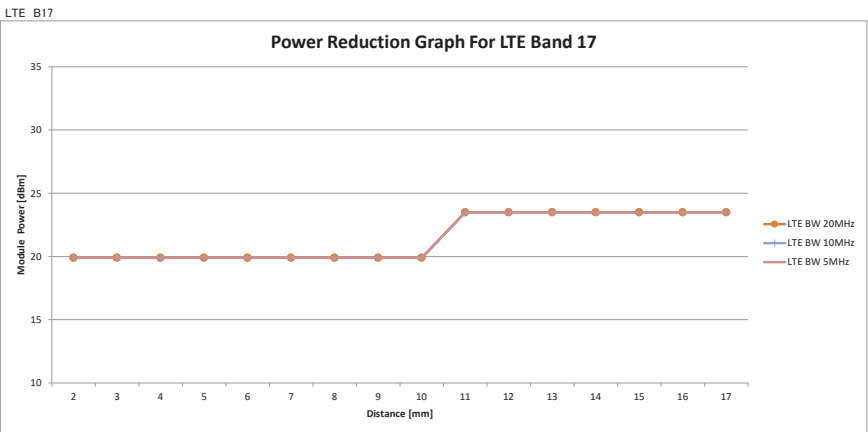
Rear/Rear Tilt - Moving from phantom



|                    |                    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    | Coverage Step UMTS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Didtance           | 2                  | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |
| DPR                | ON                 | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |
| UMTS Rel99 Band V  | 16.9               | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| UMTS Rel99 BAND IV | 17.4               | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| UMTS Rel99 BAND II | 18.5               | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

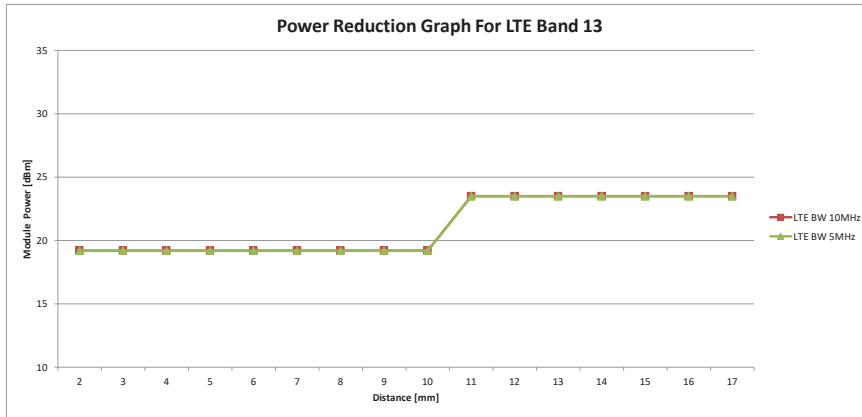


|               |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|               | Coverage Step LTE Band 12 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Didtance      | 2                         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |
| DPR           | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |
| LTE BW 10MHz  | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| LTE BW 5MHz   | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| LTE BW 3MHz   | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| LTE BW 1.4MHz | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

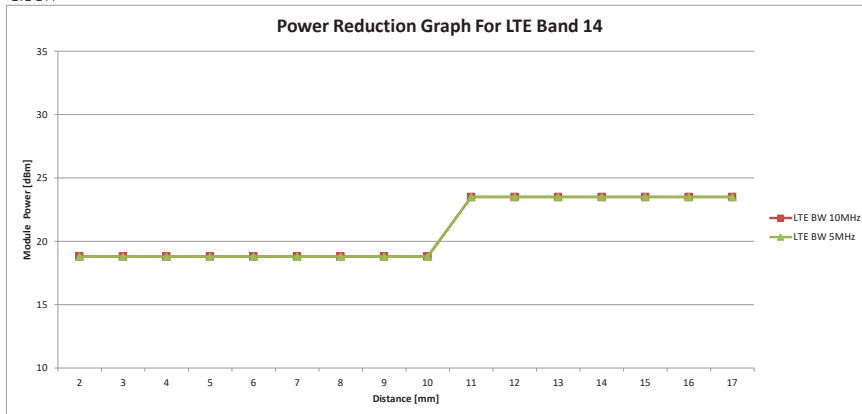


|              |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              | Coverage Step LTE Band 17 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Didtance     | 2                         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |
| DPR          | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |
| LTE BW 20MHz | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| LTE BW 10MHz | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| LTE BW 5MHz  | 19.9                      | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

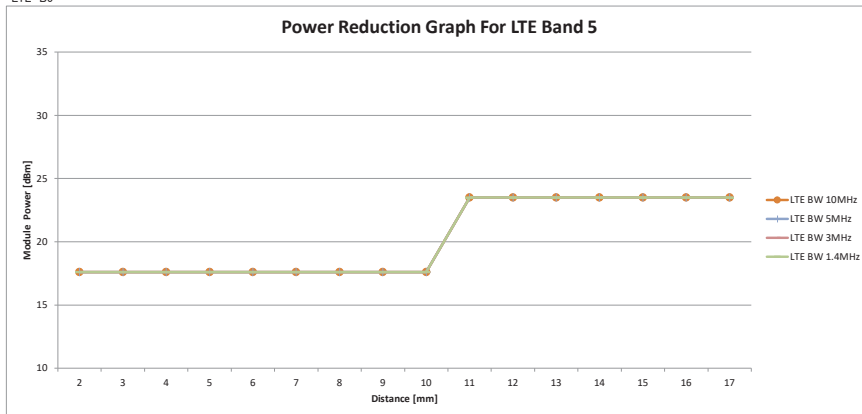
LTE B13

[illegible]

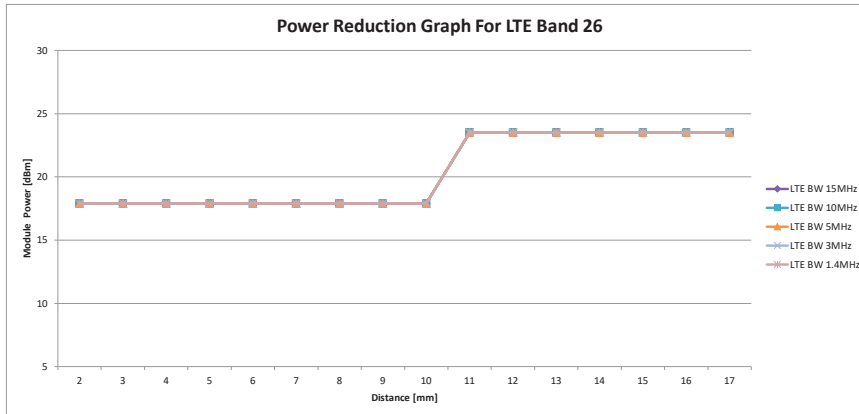
LTE B14

[illegible]

LTE B5

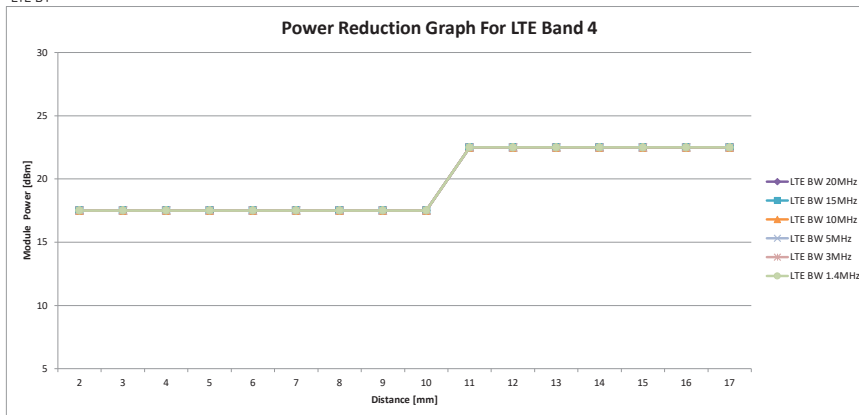
[illegible]

LTE B26

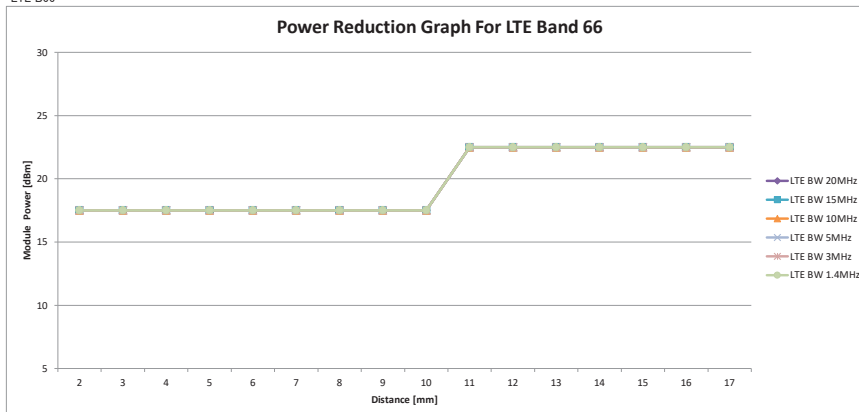


|               | Coverage Step LTE Band 26 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|---------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Distance      | 2                         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |  |
| DPR           | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |  |
| LTE BW 15MHz  | 17.9                      | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |
| LTE BW 10MHz  | 17.9                      | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |
| LTE BW 5MHz   | 17.9                      | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |
| LTE BW 3MHz   | 17.9                      | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |
| LTE BW 1.4MHz | 17.9                      | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 17.9 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |  |

LTE B4

[illegible]

LTE B66

[illegible]

**Power Reduction Graph for LTE Band 2**

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] | LTE BW 1.4MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|-------------------|---------------------|
| 2             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 3             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 4             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 5             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 6             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 7             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 8             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 9             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 10            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              | 18.5                |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |
| 17            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              | 23.5                |

[illegible]

**Power Reduction Graph For LTE Band 25**

| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] | LTE BW 3MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|-------------------|
| 2             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 3             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 4             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 5             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 6             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 7             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 8             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 9             | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 10            | 18.5               | 18.5               | 18.5               | 18.5              | 18.5              |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |
| 17            | 23.5               | 23.5               | 23.5               | 23.5              | 23.5              |

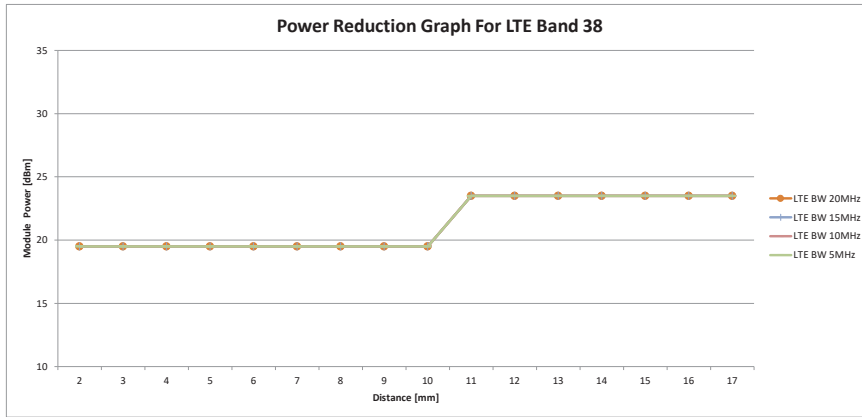
[illegible]

**Power Reduction Graph for LTE Band 7**

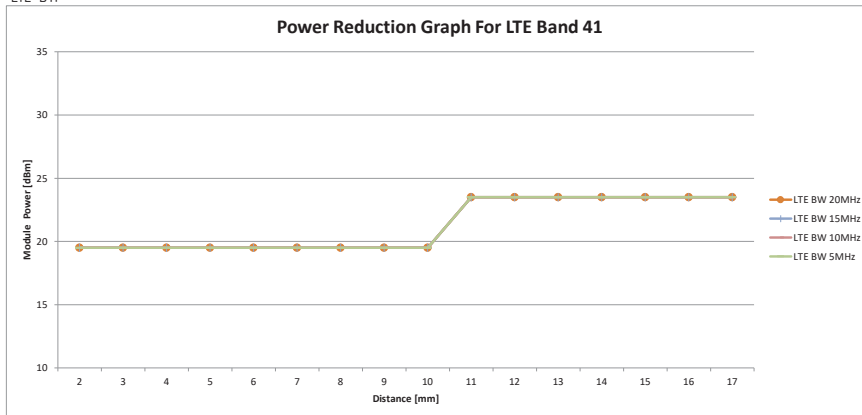
| Distance [mm] | LTE BW 20MHz [dBm] | LTE BW 15MHz [dBm] | LTE BW 10MHz [dBm] | LTE BW 5MHz [dBm] |
|---------------|--------------------|--------------------|--------------------|-------------------|
| 2             | 17.5               | 17.5               | 17.5               | 17.5              |
| 3             | 17.5               | 17.5               | 17.5               | 17.5              |
| 4             | 17.5               | 17.5               | 17.5               | 17.5              |
| 5             | 17.5               | 17.5               | 17.5               | 17.5              |
| 6             | 17.5               | 17.5               | 17.5               | 17.5              |
| 7             | 17.5               | 17.5               | 17.5               | 17.5              |
| 8             | 17.5               | 17.5               | 17.5               | 17.5              |
| 9             | 17.5               | 17.5               | 17.5               | 17.5              |
| 10            | 17.5               | 17.5               | 17.5               | 17.5              |
| 11            | 23.5               | 23.5               | 23.5               | 23.5              |
| 12            | 23.5               | 23.5               | 23.5               | 23.5              |
| 13            | 23.5               | 23.5               | 23.5               | 23.5              |
| 14            | 23.5               | 23.5               | 23.5               | 23.5              |
| 15            | 23.5               | 23.5               | 23.5               | 23.5              |
| 16            | 23.5               | 23.5               | 23.5               | 23.5              |
| 17            | 23.5               | 23.5               | 23.5               | 23.5              |

[illegible]

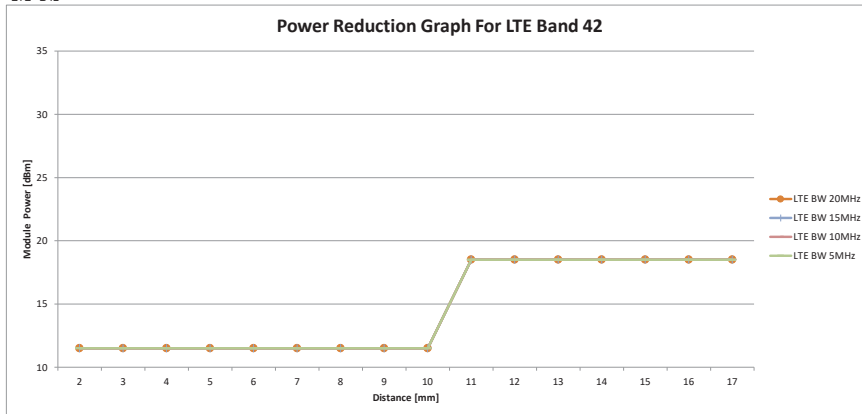
LTE B38

[illegible]

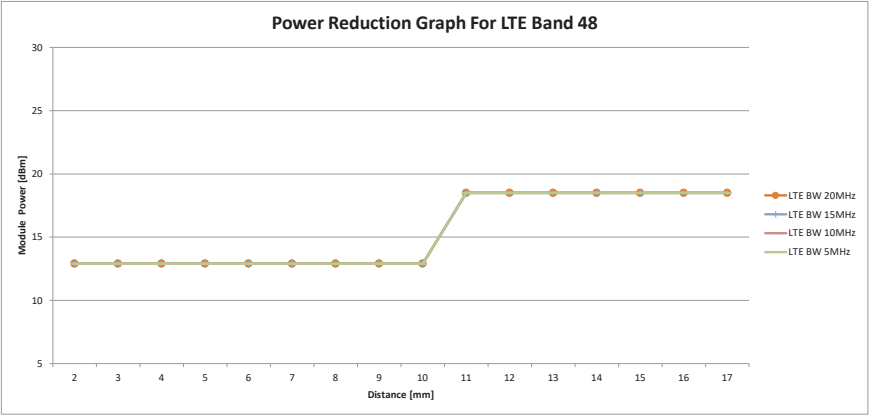
LTE B41

[illegible]

LTE B42



|              | Coverage Step LTE Band 42 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|--------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Distance     | 2                         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |  |
| DPR          | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |  |
| LTE BW 20MHz | 11.5                      | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE BW 15MHz | 11.5                      | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE BW 10MHz | 11.5                      | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE RW 5MHz  | 11.5                      | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 11.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |



|              | Coverage Step LTE Band 48 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|--------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Distance     | 2                         | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   |  |
| DPR          | ON                        | ON   | ON   | ON   | ON   | ON   | ON   | ON   | ON   | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  | OFF  |  |
| LTE BW 20MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE BW 15MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE BW 10MHz | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |
| LTE BW 5MHz  | 12.9                      | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 |  |