



**FCC 47 CFR Parts 1 & 2
Published RF Exposure KDB Procedures
IEEE Std 1528-2003 and IEEE Std 1528a-2005**

(Class II Permissive Change)

SAR EVALUATION REPORT

For
**Radio Module
(Tested inside of Panasonic Laptop PC CF-C2)**

**Model: WW13B
FCC ID: ACJ9TGWW13B**

**Report Number: 33LE0029-HO-B-R1
Issue Date: 10/09/2013**

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	9/20/2013	Initial Issue	T. Hatakeda
1	10/09/2013	Page 9 Highest Reported SAR - WCDMA Band IV SAR Value was corrected. Section 12.2.1 - Notes is added. Section 12.6 - The following documents are added to Notes. The maximum SAR value of WCDMA Band IV is Repeated SAR. Please refer to Section 12.18. Section 12.18 - Ch#, Freq., and Largest to Smallest SAR Ratio of WCDMAIV are corrected. The following documents and the table of scaled Repeated SAR are added. Repeated SAR value is larger than Original SAR value, and scaled Repeated SAR is the maximum value in the mode of WCDMA Band IV. With change of the maximum SAR value of WCDMA Band IV, the following was corrected. Section 13.2 - table and SPLSR for case 4 Section 13.11 - table and SPLSR Case #3 Section 13.20 - table and SPLSR Case #3 Section 13.29 - table and SPLSR Case #4 Section 13.38 - table and SPLSR Case #4 Section 13.46 - WLAN2.4GHz+WWAN Figure(4) WLAN5.2GHz + WWAN Figure (3) WLAN5.3GHz + WWAN Figure (3) WLAN5.5GHz + WWAN Figure (4) WLAN5.8GHz + WWAN Figure (4) 14.1.2 - Stand alone SAR of WCDMA IV is corrected. 14.1.3 - SPLSR of WCDMA IV is corrected. All page - 33LE0029-HO-A is corrected to 33LE0029-HO-A-R1.	T. Hatakeda

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1. Attestation of Test Results

Applicant	Panasonic Corporation of North America	
DUT description	Radio Module (Tested inside of Panasonic Tablet PC CF-C2)	
Model	WW13B	
Test device is	An identical prototype	
Device category	Portable	
Exposure category	General Population/Uncontrolled Exposure	
Date tested	8/5/2013 – 8/15/2013	
Applicable Standards		Test Results
FCC 47 CFR Parts 1 & 2 FCC Published RF exposure KDB procedures, and TCB workshop updates IEEE Std 1528-2003 and IEEE Std 1528a-2005		Pass
<ol style="list-style-type: none"> 1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc. 2. The results in this report apply only to the sample tested. 3. This sample tested is in compliance with the limits of the above regulation. 4. The test results in this report are traceable to the national or international standards. 5. This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. 		

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 UL Verification Service

Highest Reported SAR

Worst Case SAR data for each Frequency Band

RF Exposure Rule	Freq. Range	Highest Reported SAR	Limit
22 (GSM850)	824-849 MHz	Body & Tablet: 1.291 W/kg (Edge 1)	1.6 W/kg
24 (GSM1900)	1850-1910 MHz	Body & Tablet: 1.359 W/kg (Edge 1)	
27 (LTE Band 17)	704 – 716 MHz	Body & Tablet: 1.229 W/kg (Edge 1)	
27 (W-CDMA Band IV)	1710–1755 MHz	Body & Tablet: 1.205 W/kg (Edge 1)	
Simultaneous transmission condition		1.587 W/kg(refer to Section 13 of this report.) (highest SAR across exposure conditions)	

LEGEND:

- Rear = Bottom Face
- Edge 1 = Top Edge
- Edge 2 = Left Edge
- Edge 3 = Bottom Edge
- Edge 4 = Right Edge

2. Test Methodology

The tests documented in this report were performed in accordance with FCC 47 CFR Parts 1 & 2, IEEE STD 1528-2003, IEEE Std 1528a-2005, TCB workshop updates, and the following KDB procedures:

- 941225 D01 SAR test for 3G devices v02
- 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- 941225 D02 HSPA and 1x Advanced v02r02
- 941225 D05 SAR for LTE Devices v02r02
- 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r01
- 865664 D02 SAR Reporting v01r01
- 447498 D01 General RF Exposure Guidance v05r01
- 616217 D04 SAR for laptop and tablets v02

3. Facilities and Accreditation

*Shielded room for SAR testing

The test sites and measurement facilities used to collect data are located at 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN.

UL Japan, Inc. is accredited by NVLAP, Laboratory Code 200572-0

The full scope of accreditation can be viewed at

<http://www.ul.com/japan/jpn/pages/services/emc/about/mark1/index.jsp#nvlap>

4. Calibration and Uncertainty

4.1. Measuring Instrument Calibration

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

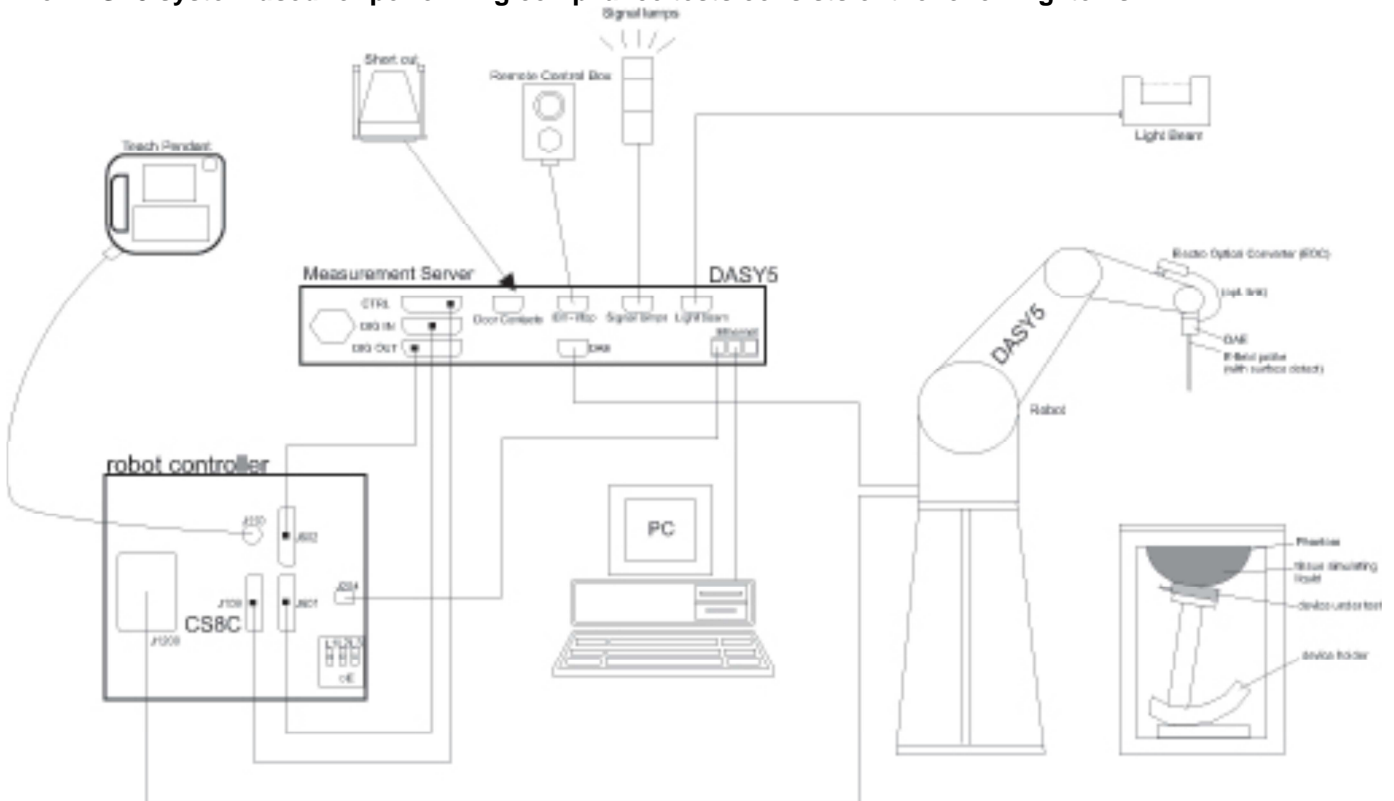
Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due date		
				MM	DD	Year
Dielectronic Probe kit	Agilent	85070D	702	8	31	2013
ENA Series Network Analyzer	Agilent	E8358A	US41080381	9	14	2013
Signal Generator	R & S	SMA 100A	103764	6	5	2014
Power Meter	Virginia Diodes, Inc.	PM4	137V	9	25	2013
Power Sensor A	Agilent	N8482H	MY52460010	6	5	2014
Power Sensor B	Agilent	N8482H	MY53050001	6	5	2014
Amplifier	R & K	R&K CGA020M602-2633R	B30550	6	6	2014
Directional coupler	Agilent	87300B	14893A	N/A		
Base Station Simulator	R & S	CMW500	127576	10	31	2013
Base Station Simulator	Anritsu	MT8815B	6200711471	12	31	2013
Thermo-Hygrometer	Custom	DTH-201	-	7	29	2014
E-Field Probe	SPEAG	EX3DV4	3917	5	14	2014
E-Field Probe	SPEAG	EX3DV4	3922	6	4	2014
Data Acquisition Electronics	SPEAG	DAE4	1369	5	13	2014
Data Acquisition Electronics	SPEAG	DAE4	1372	6	3	2014
System Validation Dipole	SPEAG	D750V3	1058	5	10	2014
System Validation Dipole	SPEAG	D900V2	155	12	6	2013
System Validation Dipole	SPEAG	D1800V2	2d040	12	9	2013

4.2. Measurement Uncertainty

Per KDB 865664, when no measured SAR values exceed 1.5 W/kg, measurement uncertainty analysis does not need to be provided in the test report.

5. Measurement System Description and Setup

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6. SAR Measurement Procedure

6.1. Normal SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01.

		≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		≤ 2 GHz: ≤ 8 mm $2 - 3$ GHz: ≤ 5 mm*	$3 - 4$ GHz: ≤ 5 mm* $4 - 6$ GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z	≥ 30 mm	$3 - 4$ GHz: ≥ 28 mm $4 - 5$ GHz: ≥ 25 mm $5 - 6$ GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <i>reported</i> SAR from the area scan based <i>1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

Step 5: Z-Scan (FCC only)

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

6.2. Volume Scan Procedures

Step 1: Repeat Step 1-4 in Section 6.1

Step 2: Volume Scan

Volume Scans are used to assess peak SAR and averaged SAR measurements in largely extended 3-dimensional volumes within any phantom. This measurement does not need any previous area scan. The grid can be anchored to a user specific point or to the current probe location.

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

7 Device Under Test

Radio Module (Tested inside of Panasonic Laptop PC CF-C2) Model: WW13B	
Operating Configuration(s)	<ul style="list-style-type: none"> • Tablet Mode
Exposure Condition(s)	<ul style="list-style-type: none"> • The device is used in close proximity to the body. Specific details of the required test positions are provided in Section 8 "Summary of Test Configurations"
Accessory	None

7.1. Wireless Technologies

Wireless Mode and Frequency Bands	<ul style="list-style-type: none"> • GSM850: 824 - 849 MHz • GSM1900: 1850 - 1910 MHz • W-CDMA Band V: 824 - 849 MHz • W-CDMA Band IV: 1710 - 1755 MHz • W-CDMA Band II: 1850 - 1910 MHz • CDMA BC 0: 824 - 849 MHz • CDMA BC 1: 1850 - 1910 MHz • CDMA BC 10: 816 - 823.975 MHz • LTE Band 2: 1850 - 1910 MHz • LTE Band 4: 1710 - 1755 MHz • LTE Band 5: 824 - 849 MHz • LTE Band 13: 777 - 787 MHz • LTE Band 17: 704 – 716 MHz • LTE Band 25: 1850 - 1915 MHz • 802.11a/b/g/n: 2412 - 2462 MHz, b / g / HT20 / HT40 5150 - 5250 MHz, a / HT20 / HT40 5250 - 5350 MHz, a / HT20 / HT40 5500 - 5700 MHz, a / HT20 / HT40 5725 - 5850 MHz, a / HT20 / HT40 • Bluetooth: 2402 - 2480 MHz
GPRS Multi-Slot Class:	<ul style="list-style-type: none"> • GPRS: 10 • EGPRS: 12
GPRS Class:	B
Duty Cycle	<ul style="list-style-type: none"> • GPRS 2 Slots: 25% • W-CDMA: 100% • CDMA: 100% • LTE: 100%

7.2. Hotspot (Wireless Router) Exposure Condition

N/A

7.3. Simultaneous Transmission

WWAN + Wi-Fi 2.4 GHz SISO (1 Tx)

Usage Scenario	Modes	Mode of Operation	BAND	CDMA 1xRTT	CDMA 1xEV-DO	GPRS/EDGE	WCDMA	HSDPA	HSUPA	HSPA+	DC-HSPA	LTE	Wi-Fi 2.4GHz Main	Wi-Fi 2.4GHz Aux	Wi-Fi 5 GHz Bands Main	Wi-Fi 5 GHz Bands Aux	BT 2.4 GHz	
Body SAR	WWAN + 2.4 GHz WLAN	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	YES	No	No	No	No	
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	YES	No	No	No	No	
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	YES	No	No	No	No	
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	YES	No	No	No	No	
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	YES	No	No	No	No	
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	YES	No	No	No	No	
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No	No
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No	No
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	No
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	No
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	No
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	No
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	No
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	No
		HSUPA	850	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No	No
		HSUPA	1700	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No	No
		HSUPA	1900	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No	No
		HSPA+	850	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	No
		HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	No
		HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	No
		DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	No
		DC-HSDPA	1700	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	No
		DC-HSDPA	1900	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	No
		LTE	2	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		LTE	4	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		LTE	5	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		LTE	13	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		LTE	17	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		LTE	25	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No
		CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No	No
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No	No
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No	No
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	YES	No	No	No
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	YES	No	No	No
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	YES	No	No	No
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	YES	No	No	No
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	YES	No	No	No
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No
		HSUPA	850	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No	No
		HSUPA	1700	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No	No
		HSUPA	1900	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No	No
		HSPA+	850	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No
		HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No
		HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No
		DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No
DC-HSDPA	1700	No	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No		
DC-HSDPA	1900	No	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No		
LTE	2	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		
LTE	4	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		
LTE	5	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		
LTE	13	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		
LTE	17	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		
LTE	25	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No		

WWAN + Wi-Fi 5 GHz Bands SISO (1 Tx)

Usage Scenario	Modes	Mode of Operation	BAND	CDMA 1xRTT	CDMA 1xEV-DO	GPRS/EDGE	WCDMA	HSDPA	HSUPA	HSPA+	DC-HSPA	LTE	Wi-Fi 2.4GHz Main	Wi-Fi 2.4GHz Aux	Wi-Fi 5 GHz Bands Main	Wi-Fi 5 GHz Bands Aux	BT 2.4 GHz	
Body SAR	WWAN + 5 GHz Bands WLAN	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No	
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No	No
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No	No
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	No
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No	No
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No	No
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	No
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	No
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	No
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	No
		HSUPA	850	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No	No
		HSUPA	1700	No	No	No	No	No	No	YES	No	No	No	No	No	YES	No	No
		HSUPA	1900	No	No	No	No	No	No	YES	No	No	No	No	No	YES	No	No
		HSPA+	850	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No
		HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No
		HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	No
		DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No
		DC-HSDPA	1700	No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No
		DC-HSDPA	1900	No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	No
		LTE	2	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	No
		LTE	4	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No
		LTE	5	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No
		LTE	13	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No
		LTE	17	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No
		LTE	25	No	No	No	No	No	No	No	No	No	No	YES	No	YES	No	No
		CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES	No
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES	No
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES	No
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No
		HSUPA	850	No	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No
		HSUPA	1700	No	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No
HSUPA	1900	No	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No		
HSPA+	850	No	No	No	No	No	No	No	YES	No	No	No	No	No	YES	No		
HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	No	No	No	YES	No		
HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	No	No	No	YES	No		
DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No		
DC-HSDPA	1700	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No		
DC-HSDPA	1900	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No		
LTE	2	No	No	No	No	No	No	No	No	No	YES	No	No	No	YES	No		
LTE	4	No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No		
LTE	5	No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No		
LTE	13	No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No		
LTE	17	No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No		
LTE	25	No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No		

WWAN + Bluetooth

Usage Scenario	Modes	Mode of Operation	BAND	CDMA 1xRTT	CDMA 1xEV-DO	GPRS/EDGE	WCDMA	HSDPA	HSUPA	HSPA+	DC-HSPA	LTE	Wi-Fi 2.4GHz Main	Wi-Fi 2.4GHz Aux	Wi-Fi 5 GHz Bands Main	Wi-Fi 5 GHz Bands Aux	BT 2.4 GHz		
Body SAR	WWAN + BT	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES		
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	No	No	No	YES	
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	No	No	No	YES	
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES	
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES	
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	No	No	No	No	YES
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	No	No	No	No	YES
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	No	YES
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	YES
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	YES
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	No	YES
		HSUPA	850	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES
		HSUPA	1700	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES
		HSUPA	1900	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	No	YES
		HSPA+	850	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES
		HSPA+	1700	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES
		HSPA+	1900	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	No	YES
		DC-HSDPA	850	No	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	YES
		DC-HSDPA	1700	No	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	YES
		DC-HSDPA	1900	No	No	No	No	No	No	No	YES	No	No	No	No	No	No	No	YES
		LTE	2	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES
		LTE	4	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES
LTE	5	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES		
LTE	13	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES		
LTE	17	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES		
LTE	25	No	No	No	No	No	No	No	No	No	No	YES	No	No	No	No	YES		

WWAN + Wi-Fi SISO (1 Tx) + Bluetooth

Usage Scenario	Modes	Mode of Operation	BAND	CDMA 1xRTT	CDMA 1xEV-DO	GPRS/EDGE	WCDMA	HSDPA	HSUPA	HSPA+	DC-HSPA	LTE	Wi-Fi 2.4GHz Main	Wi-Fi 2.4GHz Aux	Wi-Fi 5 GHz Bands Main	Wi-Fi 5 GHz Bands Aux	BT 2.4 GHz			
Body SAR	WWAN + 2.4GHz WLAN MIMO (2 Tx on WLAN)	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	YES	No	No	No	YES			
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	YES	No	No	No	YES		
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	YES	No	No	No	YES		
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	YES	No	No	No	YES		
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	YES	No	No	No	YES		
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	YES	No	No	No	YES		
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No	YES		
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	YES	No	No	No	YES		
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	YES		
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	YES		
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	YES	No	No	No	YES		
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	YES		
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	YES		
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	YES	No	No	No	YES		
		HSUPA	850	No	No	No	No	No	YES	No	No	No	No	YES	No	No	No	YES		
		HSUPA	1700	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No	YES		
		HSUPA	1900	No	No	No	No	No	No	YES	No	No	No	YES	No	No	No	YES		
		HSPA+	850	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	YES		
		HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	YES		
		HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	YES	No	No	No	YES		
		DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	YES		
		DC-HSDPA	1700	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	YES		
		DC-HSDPA	1900	No	No	No	No	No	No	No	No	YES	No	YES	No	No	No	YES		
		LTE	2	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		LTE	4	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		LTE	5	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		LTE	13	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		LTE	17	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		LTE	25	No	No	No	No	No	No	No	No	No	No	YES	YES	No	No	No	YES	
		Body SAR	WWAN + 5 GHz Bands WLAN MIMO (2 Tx on WLAN)	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	YES	No	YES	
				CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No	YES
				CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No	YES
				CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	YES
				CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	YES
				CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	No	YES	No	YES
				EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No	YES
				EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	No	YES	No	YES
				W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	YES
				W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	YES
				W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No	YES
				HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	YES
				HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	YES
				HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	No	YES	No	YES
				HSUPA	850	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No	YES
				HSUPA	1700	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No	YES
				HSUPA	1900	No	No	No	No	No	YES	No	No	No	No	No	No	YES	No	YES
				HSPA+	850	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	YES
				HSPA+	1700	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	YES
				HSPA+	1900	No	No	No	No	No	No	No	YES	No	No	No	No	YES	No	YES
				DC-HSDPA	850	No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	YES
DC-HSDPA	1700			No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	YES		
DC-HSDPA	1900			No	No	No	No	No	No	No	No	YES	No	No	No	YES	No	YES		
LTE	2			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	
LTE	4			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	
LTE	5			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	
LTE	13			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	
LTE	17			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	
LTE	25			No	No	No	No	No	No	No	No	No	No	YES	No	No	YES	No	YES	

WWAN + Wi-Fi MIMO (2 Tx)

Usage Scenario	Modes	Mode of Operation	BAND	CDMA 1xRTT	CDMA 1xEV-DO	GPRS/EDGE	WCDMA	HSDPA	HSUPA	HSPA+	DC-HSPA	LTE	Wi-Fi 2.4GHz Main	Wi-Fi 2.4GHz Aux	Wi-Fi 5 GHz Bands Main	Wi-Fi 5 GHz Bands Aux	BT 2.4 GHz	
Body SAR	WWAN + 2.4GHz WLAN + BT	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	YES	YES	No	No	No	
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	YES	YES	No	No	No	
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	YES	YES	No	No	No	
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	YES	YES	No	No	No	
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	YES	YES	No	No	No	
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	YES	YES	No	No	No	
		EDGE	850	No	No	YES	No	No	No	No	No	No	YES	YES	No	No	No	
		EDGE	1900	No	No	YES	No	No	No	No	No	No	YES	YES	No	No	No	
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	YES	YES	No	No	No	
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	YES	YES	No	No	No	
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	YES	YES	No	No	No	
		HSDPA	850	No	No	No	No	YES	No	No	No	No	YES	YES	No	No	No	
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	YES	YES	No	No	No	
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	YES	YES	No	No	No	
		HSUPA	850	No	No	No	No	No	YES	No	No	No	YES	YES	No	No	No	
		HSUPA	1700	No	No	No	No	No	YES	No	No	No	YES	YES	No	No	No	
		HSUPA	1900	No	No	No	No	No	YES	No	No	No	YES	YES	No	No	No	
		HSPA+	850	No	No	No	No	No	No	YES	No	No	YES	YES	No	No	No	
		HSPA+	1700	No	No	No	No	No	No	YES	No	No	YES	YES	No	No	No	
		HSPA+	1900	No	No	No	No	No	No	YES	No	No	YES	YES	No	No	No	
		DC-HSDPA	850	No	No	No	No	No	No	No	YES	No	YES	YES	No	No	No	
		DC-HSDPA	1700	No	No	No	No	No	No	No	YES	No	YES	YES	No	No	No	
		DC-HSDPA	1900	No	No	No	No	No	No	No	YES	No	YES	YES	No	No	No	
		LTE	2	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No
		LTE	4	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No
	LTE	5	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No	
	LTE	13	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No	
	LTE	17	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No	
	LTE	25	No	No	No	No	No	No	No	No	No	YES	YES	YES	No	No	No	
	WWAN + 5 GHz Bands WLAN + BT	CDMA 1xRTT	BC0	YES	No	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		CDMA 1xRTT	BC1	YES	No	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		CDMA 1xRTT	BC10	YES	No	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		CDMA 1xEVDO	BC0	No	YES	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		CDMA 1xEVDO	BC1	No	YES	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		CDMA 1xEVDO	BC10	No	YES	No	No	No	No	No	No	No	No	No	No	YES	YES	No
		EDGE	850	No	No	YES	No	No	No	No	No	No	No	No	No	YES	YES	No
		EDGE	1900	No	No	YES	No	No	No	No	No	No	No	No	No	YES	YES	No
		W-CDMA	850	No	No	No	YES	No	No	No	No	No	No	No	No	YES	YES	No
		W-CDMA	1700	No	No	No	YES	No	No	No	No	No	No	No	No	YES	YES	No
		W-CDMA	1900	No	No	No	YES	No	No	No	No	No	No	No	No	YES	YES	No
		HSDPA	850	No	No	No	No	YES	No	No	No	No	No	No	No	YES	YES	No
		HSDPA	1700	No	No	No	No	YES	No	No	No	No	No	No	No	YES	YES	No
		HSDPA	1900	No	No	No	No	YES	No	No	No	No	No	No	No	YES	YES	No
		HSUPA	850	No	No	No	No	No	YES	No	No	No	No	No	No	YES	YES	No
		HSUPA	1700	No	No	No	No	No	YES	No	No	No	No	No	No	YES	YES	No
HSUPA		1900	No	No	No	No	No	YES	No	No	No	No	No	No	YES	YES	No	
HSPA+		850	No	No	No	No	No	No	YES	No	No	No	No	No	YES	YES	No	
HSPA+		1700	No	No	No	No	No	No	YES	No	No	No	No	No	YES	YES	No	
HSPA+		1900	No	No	No	No	No	No	YES	No	No	No	No	No	YES	YES	No	
DC-HSDPA		850	No	No	No	No	No	No	No	YES	No	YES	YES	No	YES	YES	No	
DC-HSDPA		1700	No	No	No	No	No	No	No	YES	No	YES	YES	No	YES	YES	No	
DC-HSDPA		1900	No	No	No	No	No	No	No	YES	No	YES	YES	No	YES	YES	No	
LTE		2	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No	
LTE		4	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No	
LTE	5	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No		
LTE	13	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No		
LTE	17	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No		
LTE	25	No	No	No	No	No	No	No	No	No	YES	No	No	YES	YES	No		

Notes:

1. Bluetooth transmits using the WLAN Aux Antenna
2. Bluetooth can transmit simultaneously with the WLAN Main Antenna, in either of the WLAN bands.
3. Bluetooth cannot transmit simultaneously with the WLAN Aux Antenna, in either of the WLAN bands; this also precludes the transmission of Bluetooth when WLAN is in MIMO mode.

7.4. LTE Parameters

#	Description	Information
A	List the frequency range and channel bandwidths used in each LTE band; 2,4, 5, 13, 17,25 20 MHz, etc.	Band 2
		Tx: 1850 - 1910 MHz Rx: 1930 - 1990 MHz
		Band 4
		Tx: 1710 – 1755 MHz Rx: 2100 – 2155 MHz
		Band 5
		Tx: 824 - 849 MHz Rx: 869 - 894 MHz
		Band 13
		Tx: 777 – 787 MHz Rx: 746 – 756 MHz
		Band 17
		Tx: 704 – 716 MHz Rx: 734 – 746 MHz
		Band 25
		Tx: 1850 - 1915 MHz Rx: 1930 - 1995 MHz
		Channel Bandwidths for bands 2, 4, 5 and 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz
		Channel Bandwidths for bands 13 and 17: 5MHz and 10MHz

LTE Parameters continued

#	Description	Information						
B	Identify the high, middle and low (H, M, L) channel numbers and channel frequencies for each LTE bandwidth and frequency band	Channel Bandwidth						
		Band 2	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
		Low	18700/1860	18675/1857.5	18650/1855	18625/1852.5	18615/1851.5	18607/1850.7
		Mid	18900/1880	18900/1880	18900/1880	18900/1880	18900/1880	18900/1880
		High	19100/1900	19125/1902.5	19150/1905	19175/1907.5	19184/1908.4	19192/1909.2
		Channel Bandwidth						
		Band 4	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
		Low	20050/1720	20025/1717.5	20000/1715	19975/1712.5	19965/1711.5	19957/1710.7
		Mid	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5	20175/1732.5
		High	20300/1745	20325/1747.5	20350/1750	20375/1752.5	20384/1753.4	20392/1754.2
		Channel Bandwidth						
		Band 5	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
		Low			20450/829	20425/826.5	20415/825.5	20407/824.7
		Mid			20525/836.5	20525/836.5	20525/836.5	20525/836.5
		High			20600/844	20625/846.5	20634/847.4	20642/848.2
		Channel Bandwidth						
		Band 13	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
		Low				23205/779.5		
		Mid			23230/782	23230/782		
		High				23255/784.5		
		Channel Bandwidth						
		Band 17	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
		Low			23780/709	23755/706.5		
		Mid			23790/710	23790/710		
High			23800/711	23825/713.5				
Channel Bandwidth								
Band 25	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz		
Low	26140/1860	26115/1857.5	26090/1855	26065/1852.5	26055/1851.5	26047/1850.7		
Mid	26365/1882.5	26365/1882.5	26365/1882.5	26365/1882.5	26365/1882.5	26365/1882.5		
High	26590/1905	26615/1907.5	26640/1910	26665/1912.5	26674/1913.4	26682/1914.2		
C	Descriptions of the LTE transmitter and antenna implementation, and identify if the transmitter operates independently of the other wireless transmitters in the device; i.e., whether the LTE hardware, components and/or antenna(s) are shared with other transmitters.	A single antenna (Main) is used for LTE and other wireless modes (GPRS/EGPRS/W-CDMA/CDMA) for both transmit and receive.						

#	Description	Information																																						
D	Identify the voice and data transmission requirements for all LTE operating modes and exposure conditions, for standalone and simultaneous transmission, with respect to the required head and body test configurations, antenna locations, handset flip or slide cover positions, antenna diversity requirements, etc.	<p>Data Only Device</p> <p>Exposure Conditions:</p> <ul style="list-style-type: none"> ▪ Tablet Mode, with Proximity Sensor disabled (Full Power) <ul style="list-style-type: none"> ○ Rear and Left-edge (Edge 4) of the DUT at 0 mm from the phantom, and Top-edge(Edge1) of the DUT at 16 mm from the flat phantom • Tablet Mode, with Proximity Sensor enabled (Reduced Power) <ul style="list-style-type: none"> ○ Top-edge(Edge1) of the DUT at 0 mm from the phantom 																																						
E	<p>Identify if Maximum Power Reduction (MPR) is implemented as an optional or permanent feature, i.e., built-in by design:</p> <ol style="list-style-type: none"> 1. MPR may be considered during SAR testing only when the maximum output power is permanently limited by the MPR implemented within the device, according to the RB (resource block) configurations specified in 3GPP/LTE standards. 2. Regardless of network requirements, only those RB configurations allowed (see 3GPP standards) for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR. 3. A-MPR (additional MPR) must be disabled during SAR testing. 	<p>As per 3GPP TS 36.101 v11.0.0 (2012-03)</p> <p>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3</p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (RB)</th> <th rowspan="2">MPR (dB)</th> </tr> <tr> <th>1.4 MHz</th> <th>3.0 MHz</th> <th>5 MHz</th> <th>10 MHz</th> <th>15 MHz</th> <th>20 MHz</th> </tr> </thead> <tbody> <tr> <td>QPSK</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 2</td> </tr> </tbody> </table> <p>MPR is supported by design and is mandatory. A-MPR is supported by design, but is disabled for SAR testing. A-MPR is disabled, by using Network Setting value of NS_01.</p>	Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)																																	
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																		
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																	
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																	
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																	
F	When power reduction is required for one or more LTE modes to satisfy SAR compliance for simultaneous transmission or other equipment certification and operating requirements, maximum average conducted output power measurement results for each power reduction mode applicable to the simultaneous voice/data transmission configurations for such wireless configurations and frequency bands are required.	<p>Yes. A proximity sensor for WWAN power reduction is implemented in the device to address RF exposure compliance when the cellular antenna is positioned close to the user's body or other objects.</p>																																						

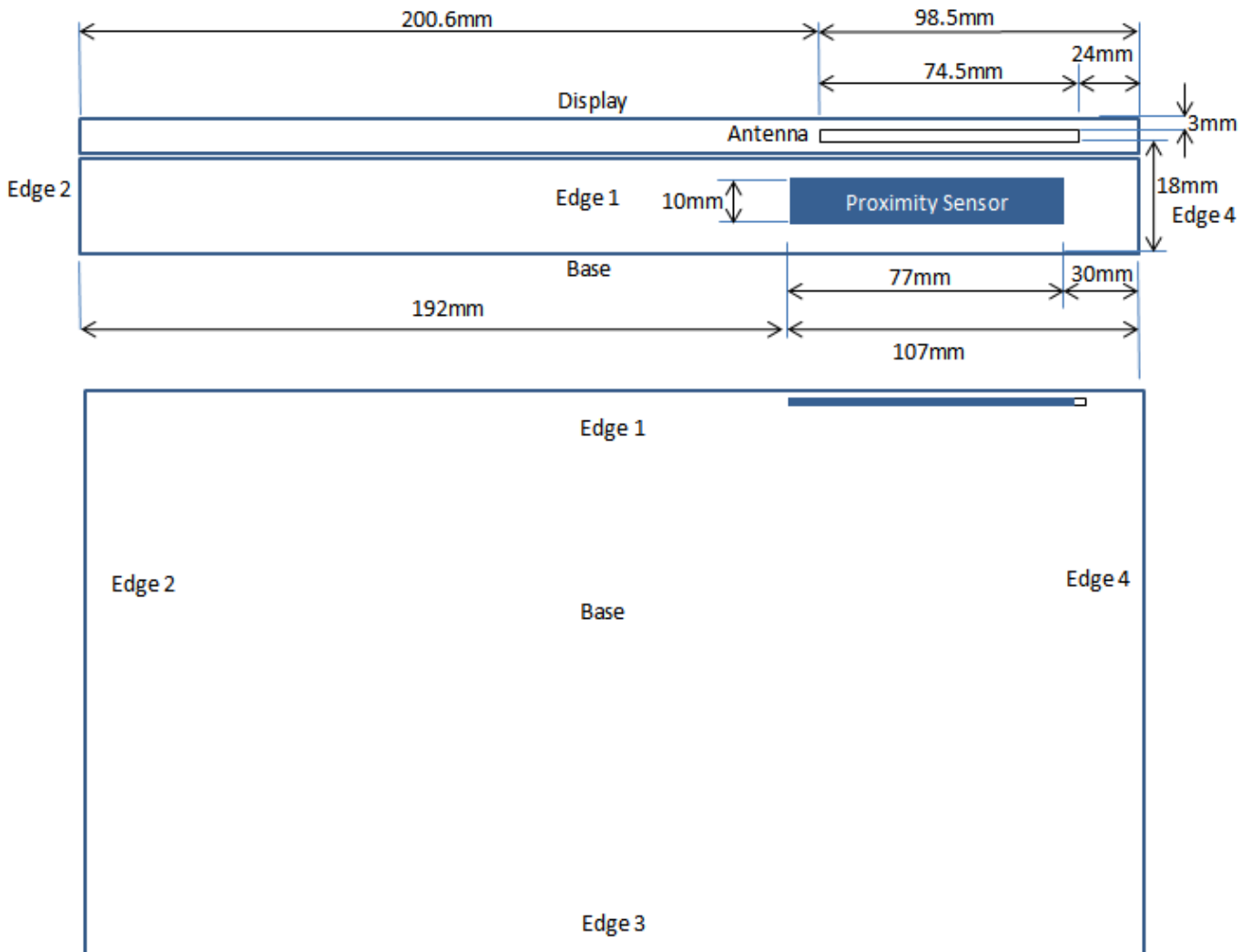
7.5. Proximity Sensor

The proximity sensor is intended to reduce the WWAN output power when edge 1 is brought close to the user. The proximity sensor only operates when the DUT is in tablet mode.

The default power level for sensor failure and malfunctioning, CF-C2 comes up in low power mode and remain in low power mode until the proximity sensor has toggled from a proximity detected to proximity not-detected state.

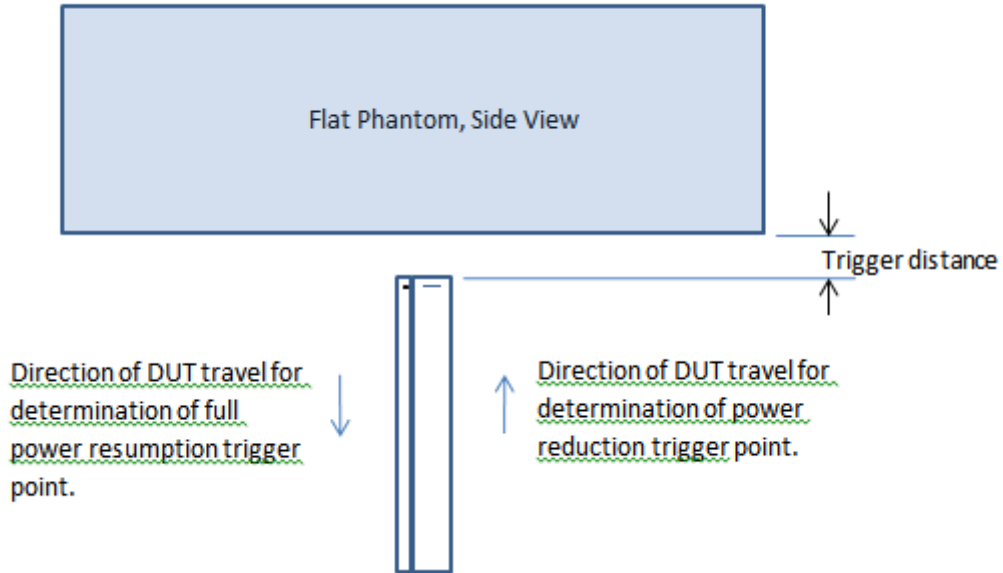
Proximity sensor triggering distances were only verified for edge 1. SAR testing of edge 4 and the base(Rear) was performed at full power.

Proximity Sensor and WWAN Main antenna locations and dimensions



7.6. Proximity Sensor Triggering distance (KDB 616217 §6.2)

Edge 1 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 §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.



Proximity sensor trigger distance assessment (Edge 1) KDB 616217 §6.2

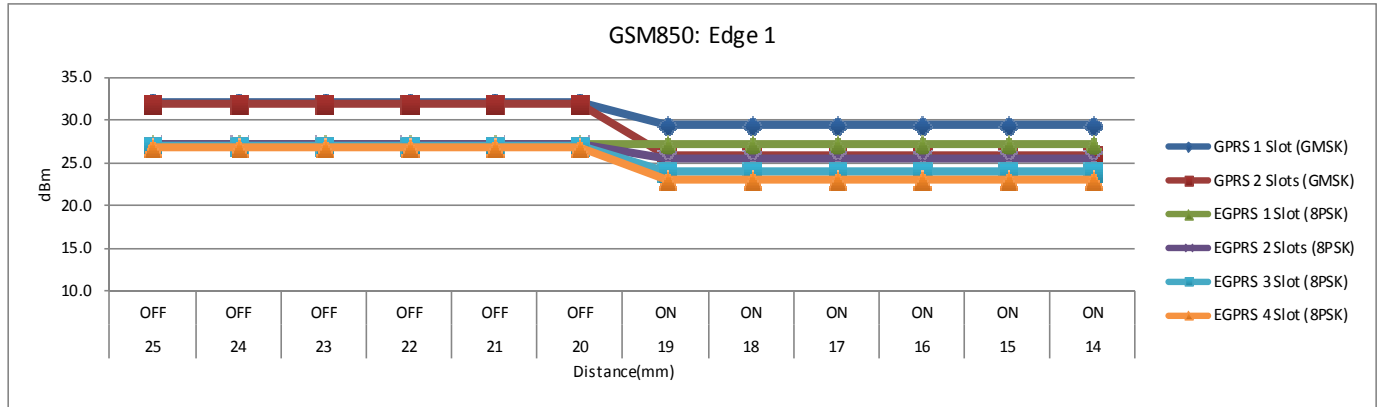
Summary of triggering distances.

Tissue simulating liquid	Trigger distance - edge 1	
	Moving toward phantom	Moving from phantom
850 muscle	19mm	25mm
1750 muscle	19mm	24mm
1900 muscle	17mm	24mm

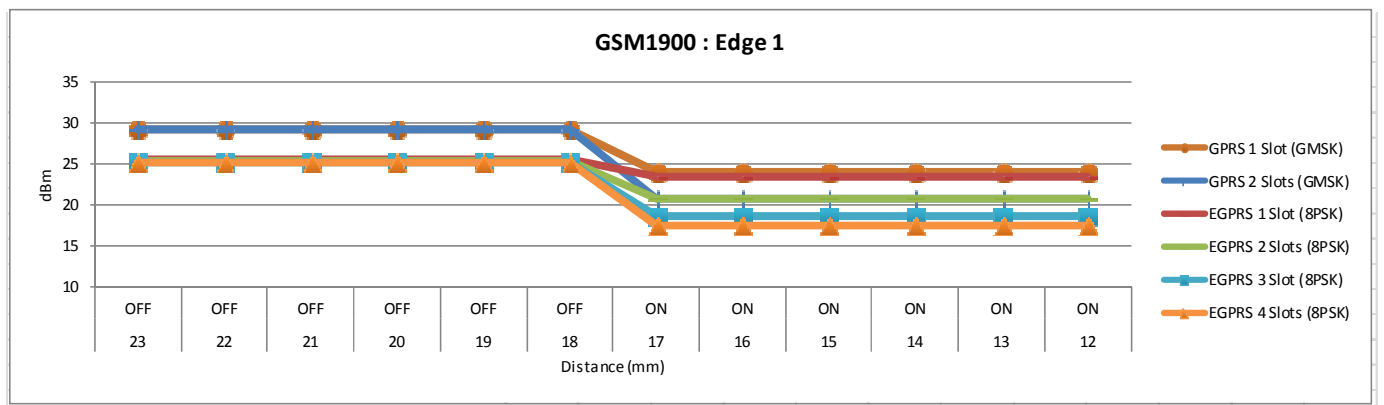
7.7. Triggering distances and power levels

7.7.1. DUT moving toward the phantom

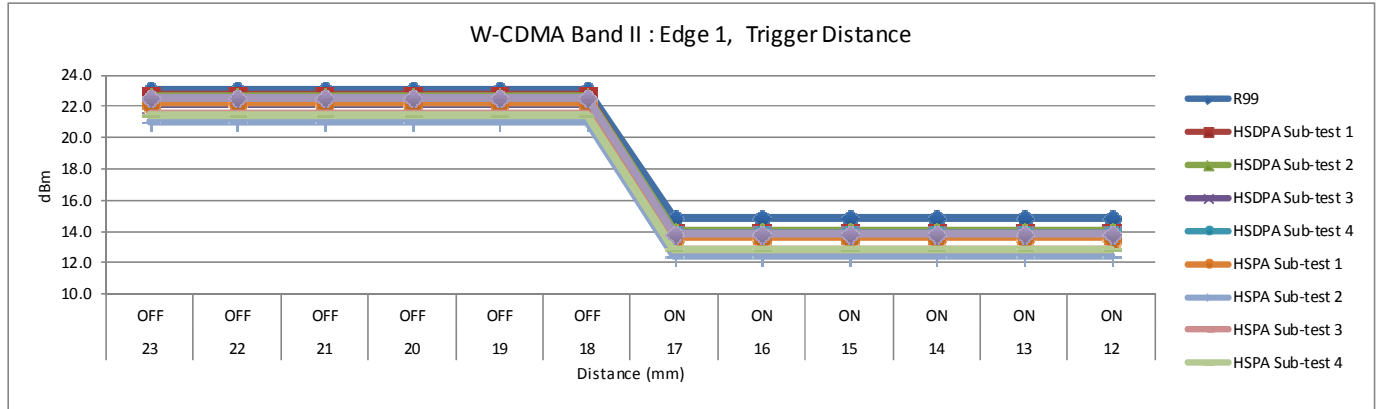
Edge 1, GSM850												
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
GPRS 1 Slot (GMSK)	32.1	32.1	32.1	32.1	32.1	32.1	29.4	29.4	29.4	29.4	29.4	29.4
GPRS 2 Slots (GMSK)	32.0	32.0	32.0	32.0	32.0	32.0	26.0	26.0	26.0	26.0	26.0	26.0
EGPRS 1 Slot (8PSK)	27.3	27.3	27.3	27.3	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.2
EGPRS 2 Slots (8PSK)	27.1	27.1	27.1	27.1	27.1	27.1	25.6	25.6	25.6	25.6	25.6	25.6
EGPRS 3 Slot (8PSK)	26.9	26.9	26.9	26.9	26.9	26.9	23.9	23.9	23.9	23.9	23.9	23.9
EGPRS 4 Slot (8PSK)	26.8	26.8	26.8	26.8	26.8	26.8	23.0	23.0	23.0	23.0	23.0	23.0



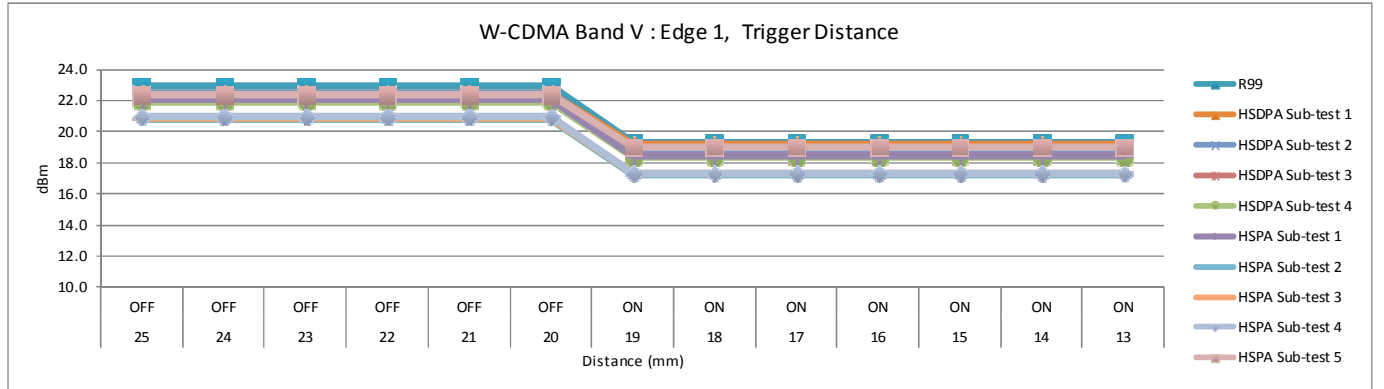
Edge 1, GSM1900												
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
GPRS 1 Slot (GMSK)	29.3	29.3	29.3	29.3	29.3	29.3	24.0	24.0	24.0	24.0	24.0	24.0
GPRS 2 Slots (GMSK)	29.2	29.2	29.2	29.2	29.2	29.2	20.8	20.8	20.8	20.8	20.8	20.8
EGPRS 1 Slot (8PSK)	25.5	25.5	25.5	25.5	25.5	25.5	23.3	23.3	23.3	23.3	23.3	23.3
EGPRS 2 Slots (8PSK)	25.3	25.3	25.3	25.3	25.3	25.3	20.6	20.6	20.6	20.6	20.6	20.6
EGPRS 3 Slot (8PSK)	25.2	25.2	25.2	25.2	25.2	25.2	18.6	18.6	18.6	18.6	18.6	18.6
EGPRS 4 Slots (8PSK)	25.1	25.1	25.1	25.1	25.1	25.1	17.5	17.5	17.5	17.5	17.5	17.5



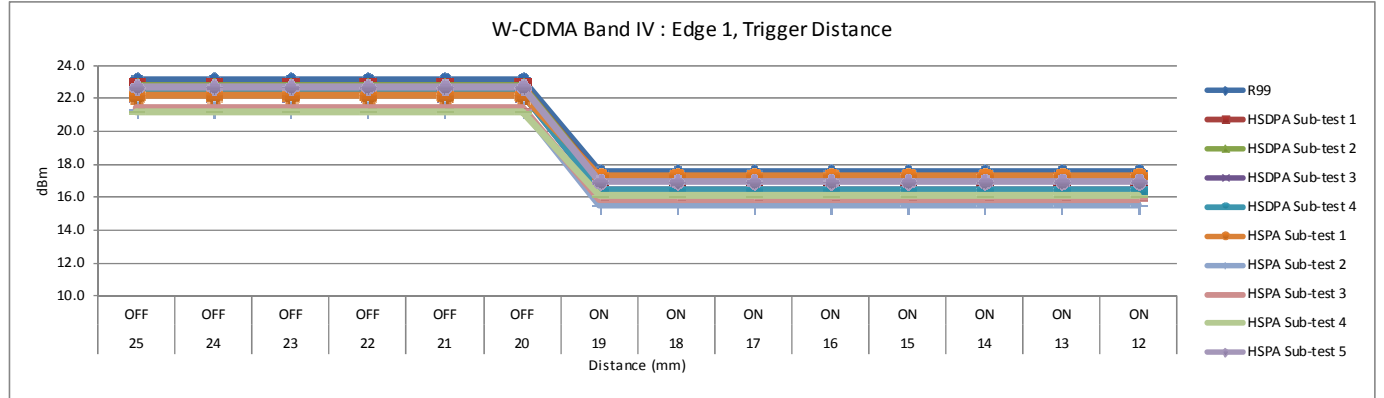
Edge 1, W-CDMA Band II												
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
R99	23.1	23.1	23.1	23.1	23.1	23.1	14.9	14.9	14.9	14.9	14.9	14.9
HSDPA Sub-test 1	22.7	22.7	22.7	22.7	22.7	22.7	14.0	14.0	14.0	14.0	14.0	14.0
HSDPA Sub-test 2	22.6	22.6	22.6	22.6	22.6	22.6	14.1	14.1	14.1	14.1	14.1	14.1
HSDPA Sub-test 3	22.2	22.2	22.2	22.2	22.2	22.2	13.8	13.8	13.8	13.8	13.8	13.8
HSDPA Sub-test 4	22.2	22.2	22.2	22.2	22.2	22.2	13.8	13.8	13.8	13.8	13.8	13.8
HSPA Sub-test 1	22.3	22.3	22.3	22.3	22.3	22.3	13.7	13.7	13.7	13.7	13.7	13.7
HSPA Sub-test 2	21.1	21.1	21.1	21.1	21.1	21.1	12.5	12.5	12.5	12.5	12.5	12.5
HSPA Sub-test 3	21.5	21.5	21.5	21.5	21.5	21.5	12.8	12.8	12.8	12.8	12.8	12.8
HSPA Sub-test 4	21.5	21.5	21.5	21.5	21.5	21.5	12.9	12.9	12.9	12.9	12.9	12.9
HSPA Sub-test 5	22.5	22.5	22.5	22.5	22.5	22.5	13.9	13.9	13.9	13.9	13.9	13.9



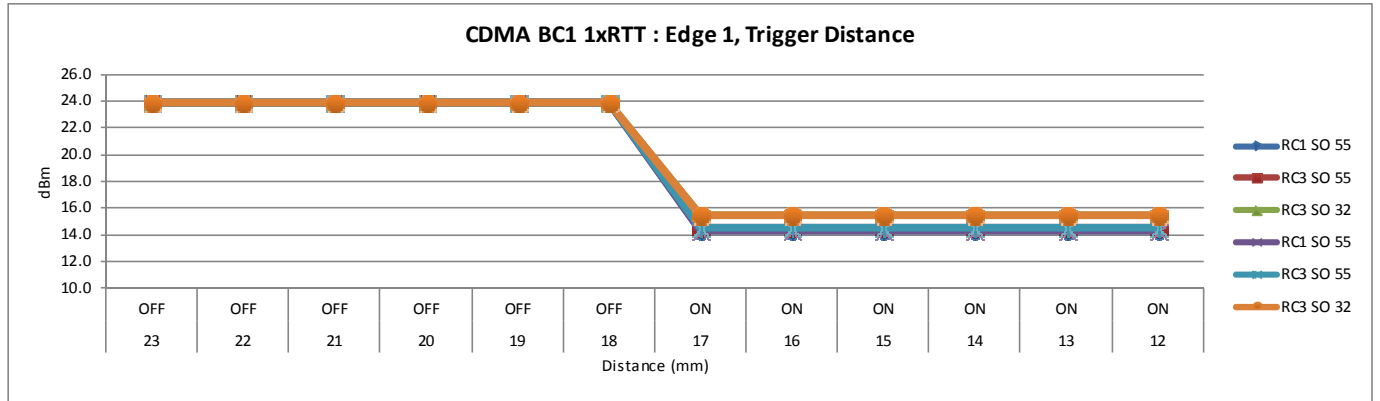
Edge 1, W-CDMA Band V													
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
R99	22.9	22.9	22.9	22.9	22.9	22.9	19.3	19.3	19.3	19.3	19.3	19.3	19.3
HSDPA Sub-test 1	22.4	22.4	22.4	22.4	22.4	22.4	19.2	19.2	19.2	19.2	19.2	19.2	19.2
HSDPA Sub-test 2	22.4	22.4	22.4	22.4	22.4	22.4	18.8	18.8	18.8	18.8	18.8	18.8	18.8
HSDPA Sub-test 3	22.1	22.1	22.1	22.1	22.1	22.1	18.4	18.4	18.4	18.4	18.4	18.4	18.4
HSDPA Sub-test 4	22.0	22.0	22.0	22.0	22.0	22.0	18.3	18.3	18.3	18.3	18.3	18.3	18.3
HSPA Sub-test 1	22.1	22.1	22.1	22.1	22.1	22.1	18.4	18.4	18.4	18.4	18.4	18.4	18.4
HSPA Sub-test 2	20.8	20.8	20.8	20.8	20.8	20.8	17.3	17.3	17.3	17.3	17.3	17.3	17.3
HSPA Sub-test 3	20.9	20.9	20.9	20.9	20.9	20.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
HSPA Sub-test 4	21.0	21.0	21.0	21.0	21.0	21.0	17.4	17.4	17.4	17.4	17.4	17.4	17.4
HSPA Sub-test 5	22.3	22.3	22.3	22.3	22.3	22.3	19.0	19.0	19.0	19.0	19.0	19.0	19.0



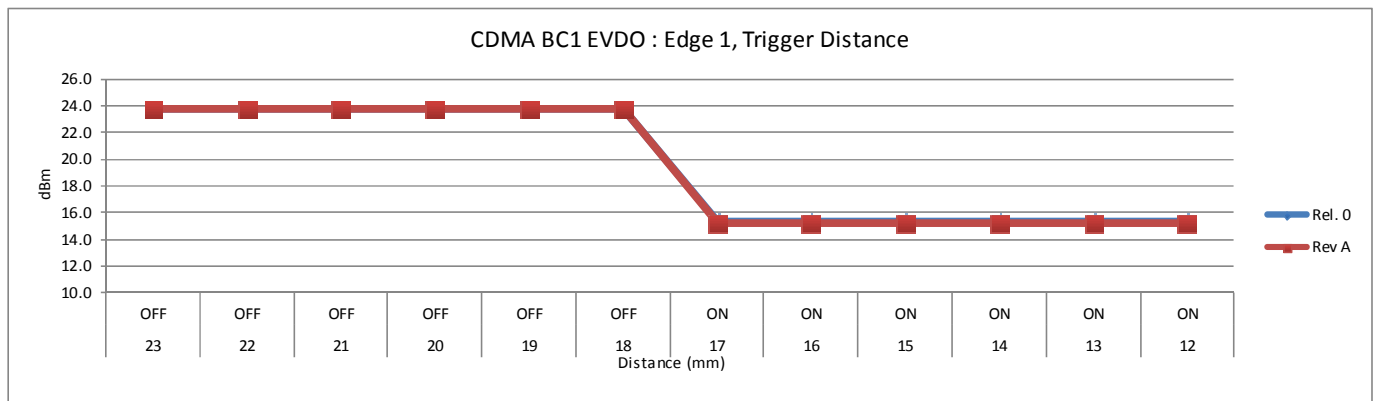
Edge 1, W-CDMA Band IV														
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
R99	23.2	23.2	23.2	23.2	23.2	23.2	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
HSDPA Sub-test 1	22.8	22.8	22.8	22.8	22.8	22.8	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
HSDPA Sub-test 2	22.8	22.8	22.8	22.8	22.8	22.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
HSDPA Sub-test 3	22.3	22.3	22.3	22.3	22.3	22.3	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
HSDPA Sub-test 4	22.3	22.3	22.3	22.3	22.3	22.3	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
HSPA Sub-test 1	22.2	22.2	22.2	22.2	22.2	22.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
HSPA Sub-test 2	21.4	21.4	21.4	21.4	21.4	21.4	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
HSPA Sub-test 3	21.5	21.5	21.5	21.5	21.5	21.5	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
HSPA Sub-test 4	21.2	21.2	21.2	21.2	21.2	21.2	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
HSPA Sub-test 5	22.7	22.7	22.7	22.7	22.7	22.7	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9



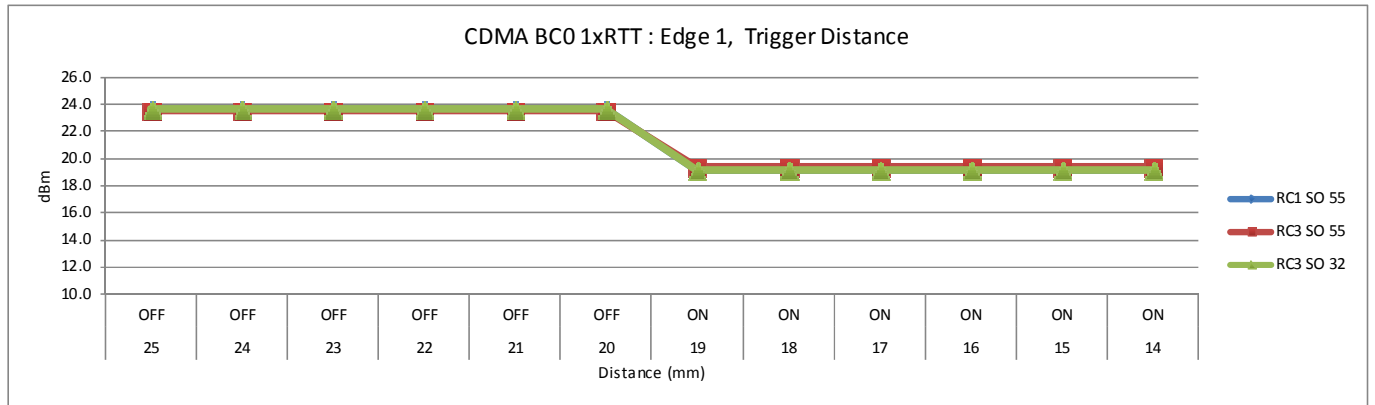
Edge 1, CDMA BC1 1xRTT												
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
RC1 SO 55	23.9	23.9	23.9	23.9	23.9	23.9	14.3	14.3	14.3	14.3	14.3	14.3
RC3 SO 55	23.8	23.8	23.8	23.8	23.8	23.8	14.5	14.5	14.5	14.5	14.5	14.5
RC3 SO 32	23.9	23.9	23.9	23.9	23.9	23.9	15.5	15.5	15.5	15.5	15.5	15.5



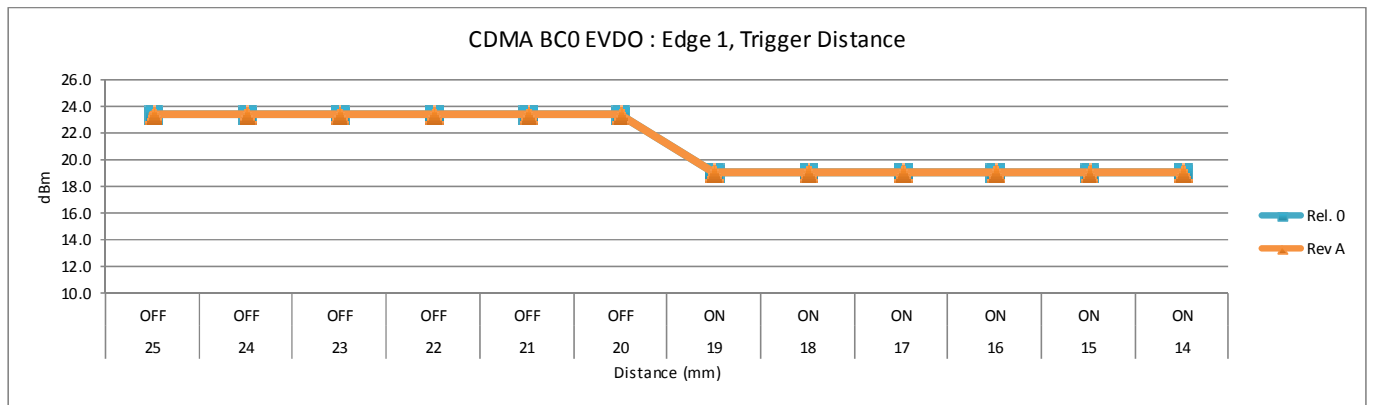
Edge 1, CDMA BC1 EVDO												
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
Rel. 0	23.8	23.8	23.8	23.8	23.8	23.8	15.4	15.4	15.4	15.4	15.4	15.4
Rev A	23.8	23.8	23.8	23.8	23.8	23.8	15.2	15.2	15.2	15.2	15.2	15.2



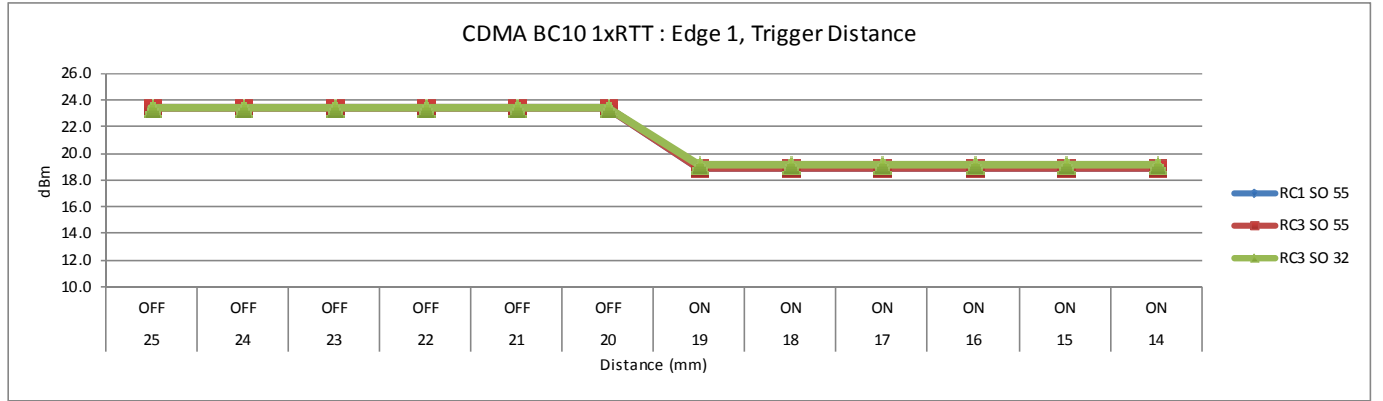
Edge 1, CDMA BC0 1xRTT												
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
RC1 SO 55	23.6	23.6	23.6	23.6	23.6	23.6	19.2	19.2	19.2	19.2	19.2	19.2
RC3 SO 55	23.6	23.6	23.6	23.6	23.6	23.6	19.4	19.4	19.4	19.4	19.4	19.4
RC3 SO 32	23.6	23.6	23.6	23.6	23.6	23.6	19.2	19.2	19.2	19.2	19.2	19.2



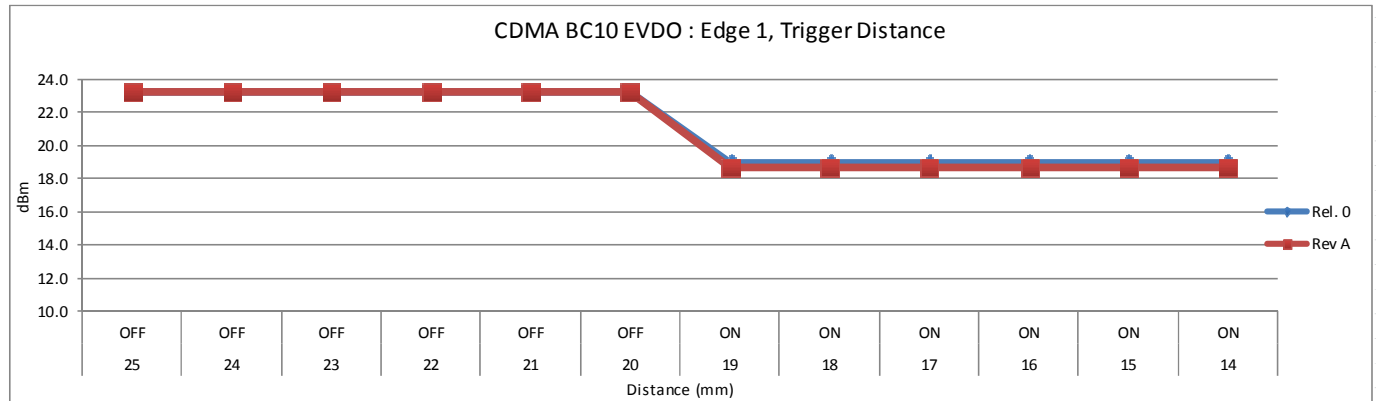
Edge 1, CDMA BC0 EVDO												
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
Rel. 0	23.4	23.4	23.4	23.4	23.4	23.4	19.1	19.1	19.1	19.1	19.1	19.1
Rev A	23.4	23.4	23.4	23.4	23.4	23.4	19.1	19.1	19.1	19.1	19.1	19.1



Edge 1, CDMA BC10 1xRTT												
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
RC1 SO 55	23.4	23.4	23.4	23.4	23.4	23.4	18.9	18.9	18.9	18.9	18.9	18.9
RC3 SO 55	23.4	23.4	23.4	23.4	23.4	23.4	18.9	18.9	18.9	18.9	18.9	18.9
RC3 SO 32	23.5	23.5	23.5	23.5	23.5	23.5	19.1	19.1	19.1	19.1	19.1	19.1



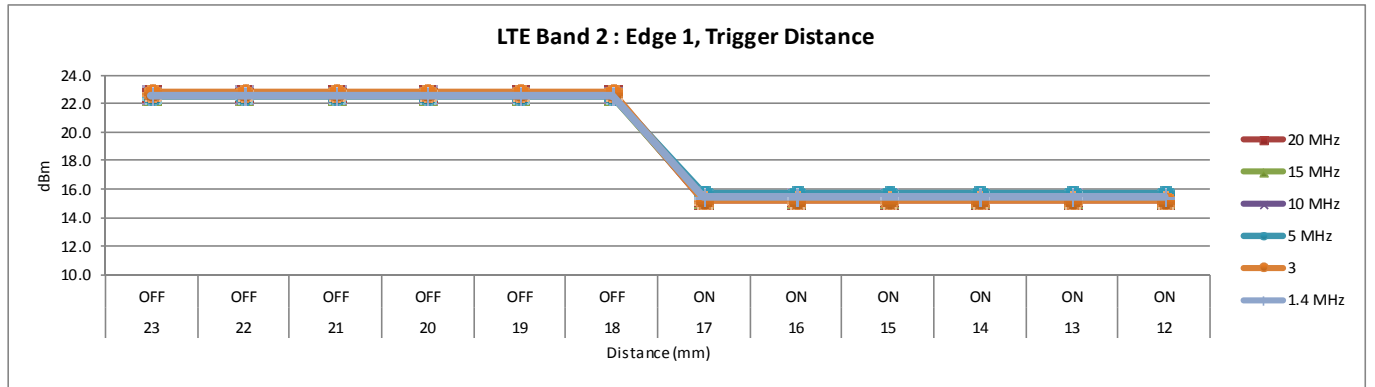
Edge 1, CDMA BC10 EVDO												
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
Rel. 0	23.3	23.3	23.3	23.3	23.3	23.3	19.0	19.0	19.0	19.0	19.0	19.0
Rev A	23.2	23.2	23.2	23.2	23.2	23.2	18.7	18.7	18.7	18.7	18.7	18.7



LTE Band 2

Edge 1

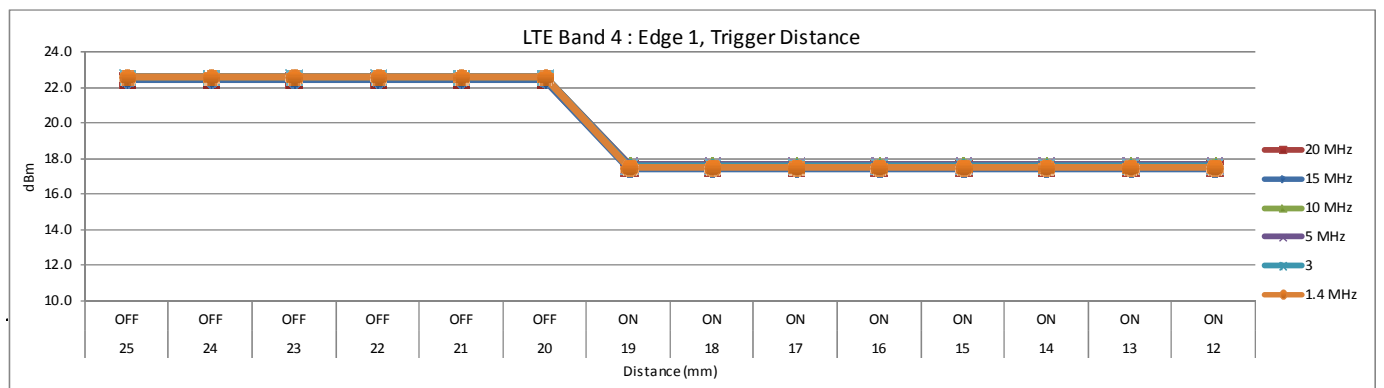
Edge 1, LTE Band 2												
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON
20 MHz	22.7	22.7	22.7	22.7	22.7	22.7	15.3	15.3	15.3	15.3	15.3	15.3
15 MHz	22.6	22.6	22.6	22.6	22.6	22.6	15.3	15.3	15.3	15.3	15.3	15.3
10 MHz	22.6	22.6	22.6	22.6	22.6	22.6	15.5	15.5	15.5	15.5	15.5	15.5
5 MHz	22.6	22.6	22.6	22.6	22.6	22.6	15.7	15.7	15.7	15.7	15.7	15.7
3	22.7	22.7	22.7	22.7	22.7	22.7	15.2	15.2	15.2	15.2	15.2	15.2
1.4 MHz	22.6	22.6	22.6	22.6	22.6	22.6	15.4	15.4	15.4	15.4	15.4	15.4



LTE Band 4

Edge 1

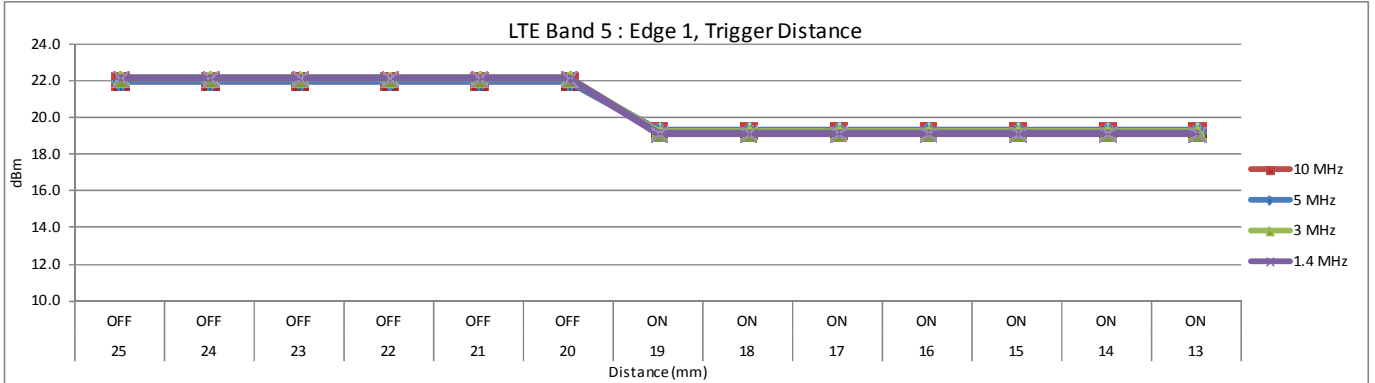
Edge 1, LTE Band 4														
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13	12
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
20 MHz	22.5	22.5	22.5	22.5	22.5	22.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
15 MHz	22.5	22.5	22.5	22.5	22.5	22.5	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
10 MHz	22.6	22.6	22.6	22.6	22.6	22.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
5 MHz	22.6	22.6	22.6	22.6	22.6	22.6	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7
3	22.6	22.6	22.6	22.6	22.6	22.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
1.4 MHz	22.6	22.6	22.6	22.6	22.6	22.6	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5



LTE Band 5

Edge 1

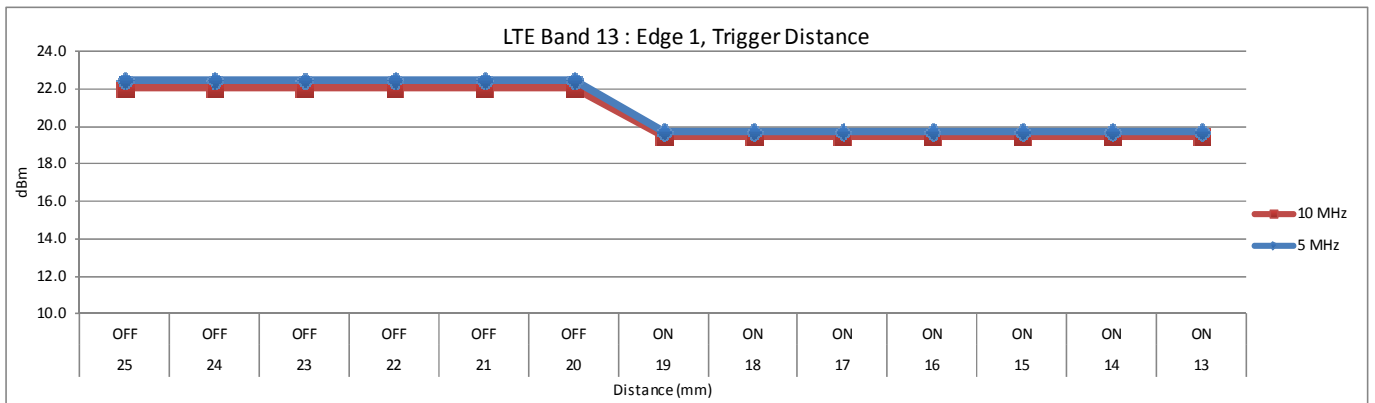
Edge 1, LTE Band 5													
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
10 MHz	22.0	22.0	22.0	22.0	22.0	22.0	19.3	19.3	19.3	19.3	19.3	19.3	19.3
5 MHz	22.0	22.0	22.0	22.0	22.0	22.0	19.3	19.3	19.3	19.3	19.3	19.3	19.3
3 MHz	22.2	22.2	22.2	22.2	22.2	22.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
1.4 MHz	22.1	22.1	22.1	22.1	22.1	22.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1



LTE Band 13

Edge 1

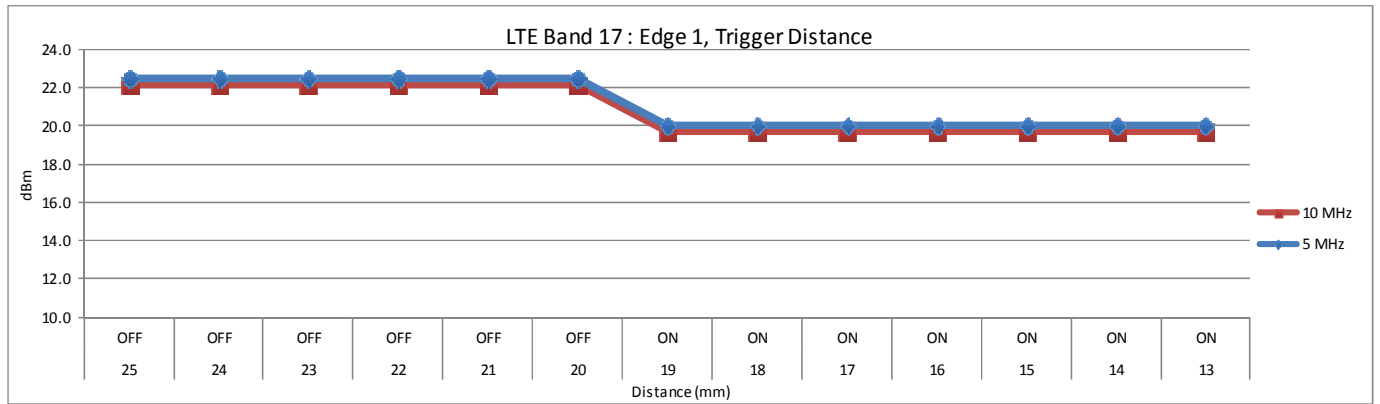
Edge 1, LTE Band 13													
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
10 MHz	22.0	22.0	22.0	22.0	22.0	22.0	19.4	19.4	19.4	19.4	19.4	19.4	19.4
5 MHz	22.5	22.5	22.5	22.5	22.5	22.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7



LTE Band 17

Edge 1

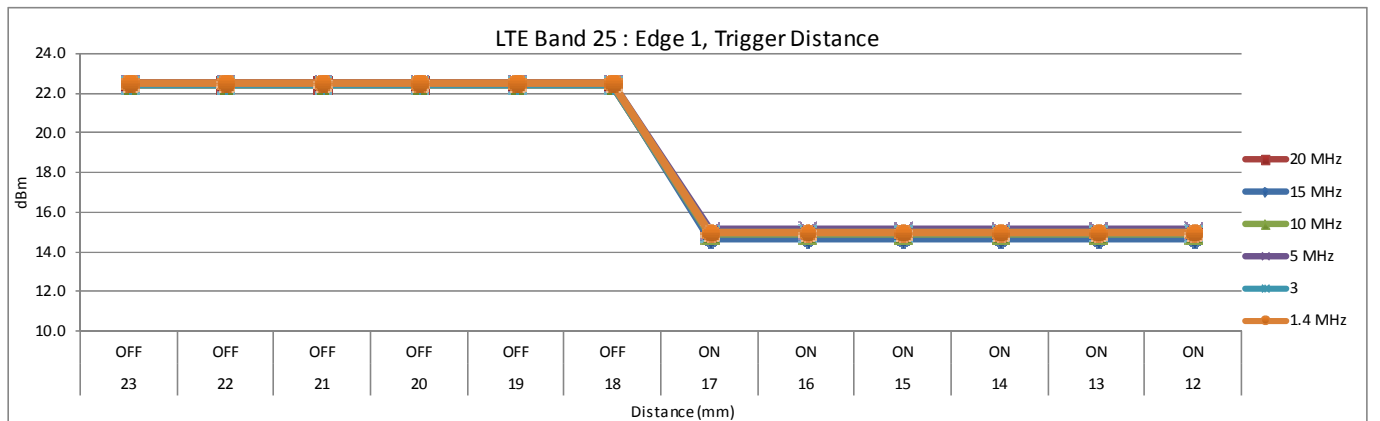
Edge 1, LTE Band 17													
Distance (mm):	25	24	23	22	21	20	19	18	17	16	15	14	13
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON
10 MHz	22.1	22.1	22.1	22.1	22.1	22.1	19.7	19.7	19.7	19.7	19.7	19.7	19.7
5 MHz	22.5	22.5	22.5	22.5	22.5	22.5	20.1	20.1	20.1	20.1	20.1	20.1	20.1



LTE Band 25

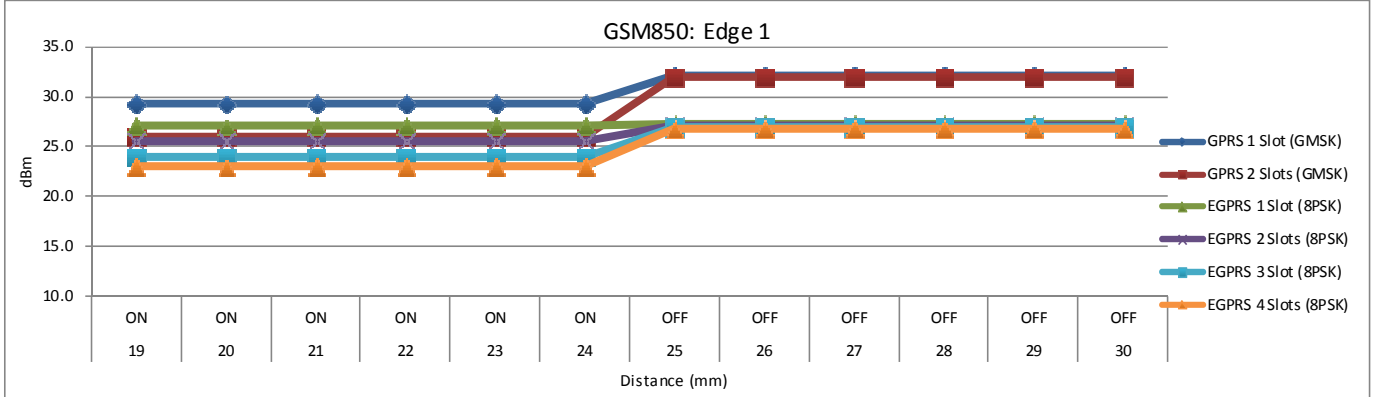
Edge 1

Edge 1, LTE Band 25													
Distance (mm):	23	22	21	20	19	18	17	16	15	14	13	12	
Proximity sensor with reduced power activation:	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	
20 MHz	22.4	22.4	22.4	22.4	22.4	22.4	14.9	14.9	14.9	14.9	14.9	14.9	
15 MHz	22.5	22.5	22.5	22.5	22.5	22.5	14.7	14.7	14.7	14.7	14.7	14.7	
10 MHz	22.4	22.4	22.4	22.4	22.4	22.4	14.9	14.9	14.9	14.9	14.9	14.9	
5 MHz	22.4	22.4	22.4	22.4	22.4	22.4	15.2	15.2	15.2	15.2	15.2	15.2	
3	22.4	22.4	22.4	22.4	22.4	22.4	15.0	15.0	15.0	15.0	15.0	15.0	
1.4 MHz	22.5	22.5	22.5	22.5	22.5	22.5	15.0	15.0	15.0	15.0	15.0	15.0	

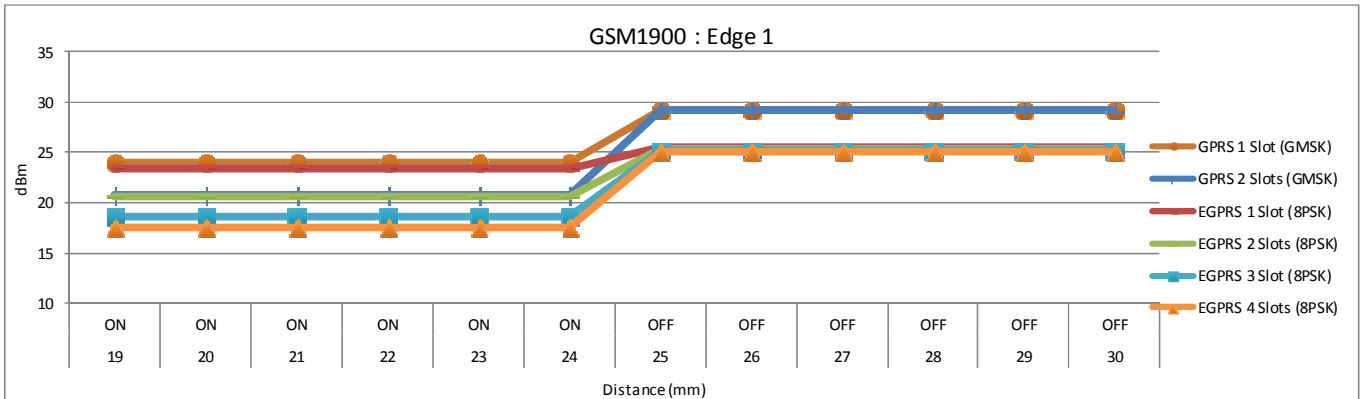


7.7.2. DUT moving away from the phantom

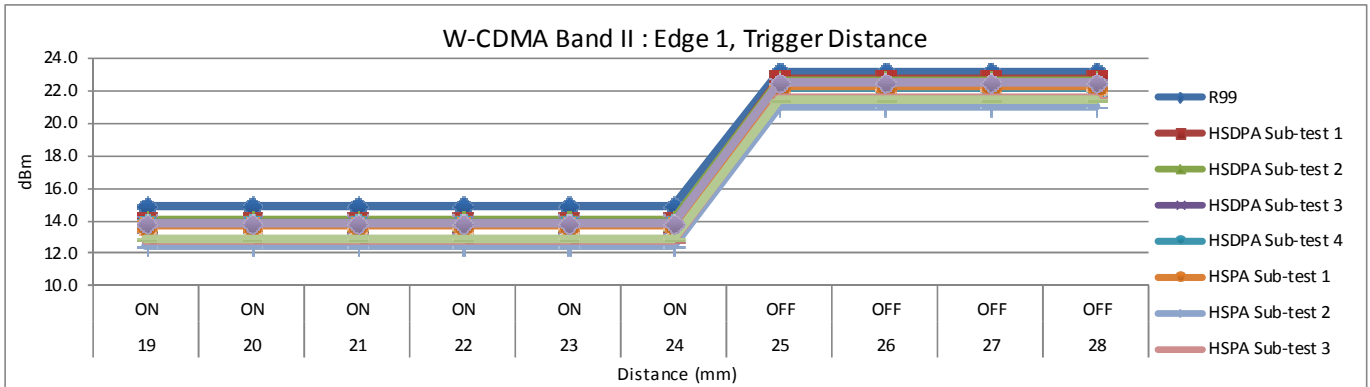
Edge 1, GSM850												
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
GPRS 1 Slot (GMSK)	29.4	29.4	29.4	29.4	29.4	29.4	32.1	32.1	32.1	32.1	32.1	32.1
GPRS 2 Slots (GMSK)	26.0	26.0	26.0	26.0	26.0	26.0	32.0	32.0	32.0	32.0	32.0	32.0
EGPRS 1 Slot (8PSK)	27.2	27.2	27.2	27.2	27.2	27.2	27.3	27.3	27.3	27.3	27.3	27.3
EGPRS 2 Slots (8PSK)	25.6	25.6	25.6	25.6	25.6	25.6	27.1	27.1	27.1	27.1	27.1	27.1
EGPRS 3 Slot (8PSK)	23.9	23.9	23.9	23.9	23.9	23.9	26.9	26.9	26.9	26.9	26.9	26.9
EGPRS 4 Slots (8PSK)	23.0	23.0	23.0	23.0	23.0	23.0	26.8	26.8	26.8	26.8	26.8	26.8



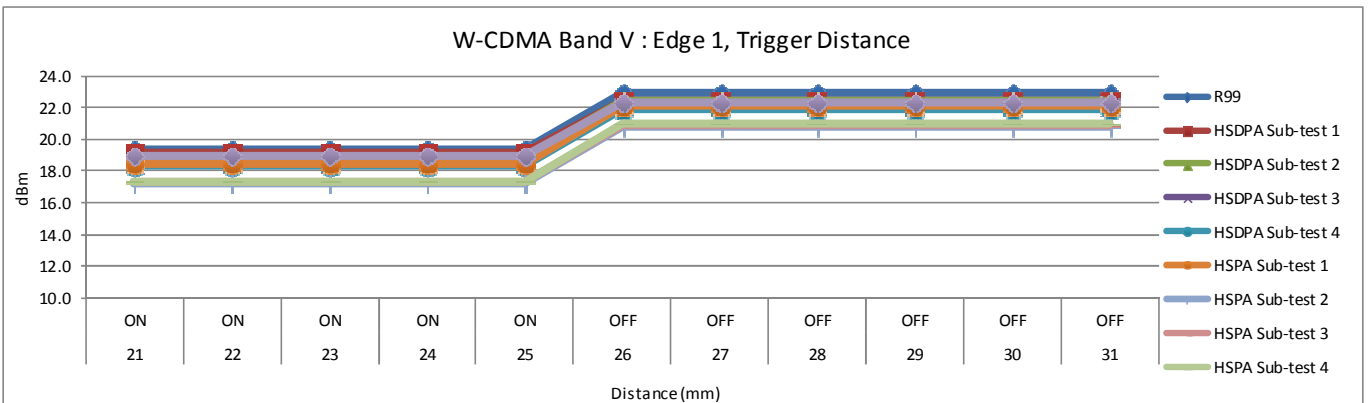
Edge 1, GSM1900												
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
GPRS 1 Slot (GMSK)	24.0	24.0	24.0	24.0	24.0	24.0	29.3	29.3	29.3	29.3	29.3	29.3
GPRS 2 Slots (GMSK)	20.8	20.8	20.8	20.8	20.8	20.8	29.2	29.2	29.2	29.2	29.2	29.2
EGPRS 1 Slot (8PSK)	23.3	23.3	23.3	23.3	23.3	23.3	25.5	25.5	25.5	25.5	25.5	25.5
EGPRS 2 Slots (8PSK)	20.6	20.6	20.6	20.6	20.6	20.6	25.3	25.3	25.3	25.3	25.3	25.3
EGPRS 3 Slot (8PSK)	18.6	18.6	18.6	18.6	18.6	18.6	25.2	25.2	25.2	25.2	25.2	25.2
EGPRS 4 Slots (8PSK)	17.5	17.5	17.5	17.5	17.5	17.5	25.1	25.1	25.1	25.1	25.1	25.1



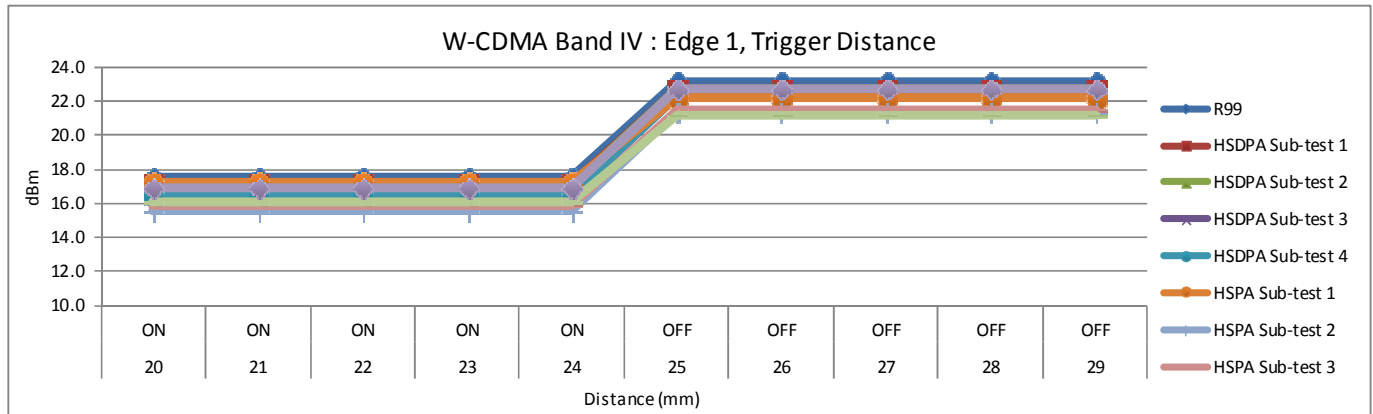
Edge 1, W-CDMA Band II											
Distance (mm):	19	20	21	22	23	24	25	26	27	28	
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	
R99	14.9	14.9	14.9	14.9	14.9	14.9	23.1	23.1	23.1	23.1	
HSDPA Sub-test 1	14.0	14.0	14.0	14.0	14.0	14.0	22.7	22.7	22.7	22.7	
HSDPA Sub-test 2	14.1	14.1	14.1	14.1	14.1	14.1	22.6	22.6	22.6	22.6	
HSDPA Sub-test 3	13.8	13.8	13.8	13.8	13.8	13.8	22.2	22.2	22.2	22.2	
HSDPA Sub-test 4	13.8	13.8	13.8	13.8	13.8	13.8	22.2	22.2	22.2	22.2	
HSPA Sub-test 1	13.7	13.7	13.7	13.7	13.7	13.7	22.3	22.3	22.3	22.3	
HSPA Sub-test 2	12.5	12.5	12.5	12.5	12.5	12.5	21.1	21.1	21.1	21.1	
HSPA Sub-test 3	12.8	12.8	12.8	12.8	12.8	12.8	21.5	21.5	21.5	21.5	
HSPA Sub-test 4	12.9	12.9	12.9	12.9	12.9	12.9	21.5	21.5	21.5	21.5	
HSPA Sub-test 5	13.9	13.9	13.9	13.9	13.9	13.9	22.5	22.5	22.5	22.5	



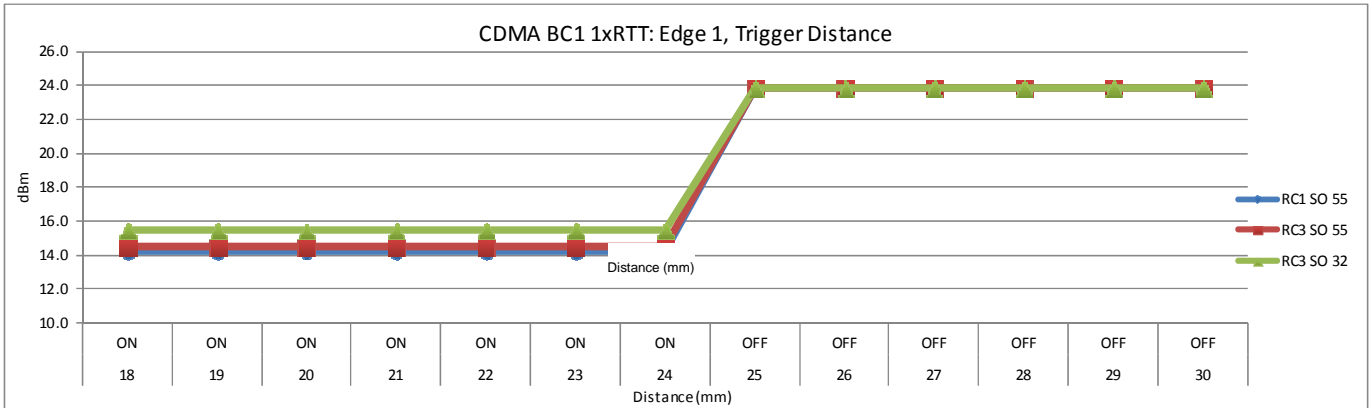
Edge 1, W-CDMA Band V												
Distance (mm):	21	22	23	24	25	26	27	28	29	30	31	
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	
R99	19.3	19.3	19.3	19.3	19.3	22.9	22.9	22.9	22.9	22.9	22.9	
HSDPA Sub-test 1	19.2	19.2	19.2	19.2	19.2	22.4	22.4	22.4	22.4	22.4	22.4	
HSDPA Sub-test 2	18.8	18.8	18.8	18.8	18.8	22.4	22.4	22.4	22.4	22.4	22.4	
HSDPA Sub-test 3	18.4	18.4	18.4	18.4	18.4	22.1	22.1	22.1	22.1	22.1	22.1	
HSDPA Sub-test 4	18.3	18.3	18.3	18.3	18.3	22.0	22.0	22.0	22.0	22.0	22.0	
HSPA Sub-test 1	18.4	18.4	18.4	18.4	18.4	22.1	22.1	22.1	22.1	22.1	22.1	
HSPA Sub-test 2	17.3	17.3	17.3	17.3	17.3	20.8	20.8	20.8	20.8	20.8	20.8	
HSPA Sub-test 3	17.3	17.3	17.3	17.3	17.3	20.9	20.9	20.9	20.9	20.9	20.9	
HSPA Sub-test 4	17.4	17.4	17.4	17.4	17.4	21.0	21.0	21.0	21.0	21.0	21.0	
HSPA Sub-test 5	19.0	19.0	19.0	19.0	19.0	22.3	22.3	22.3	22.3	22.3	22.3	



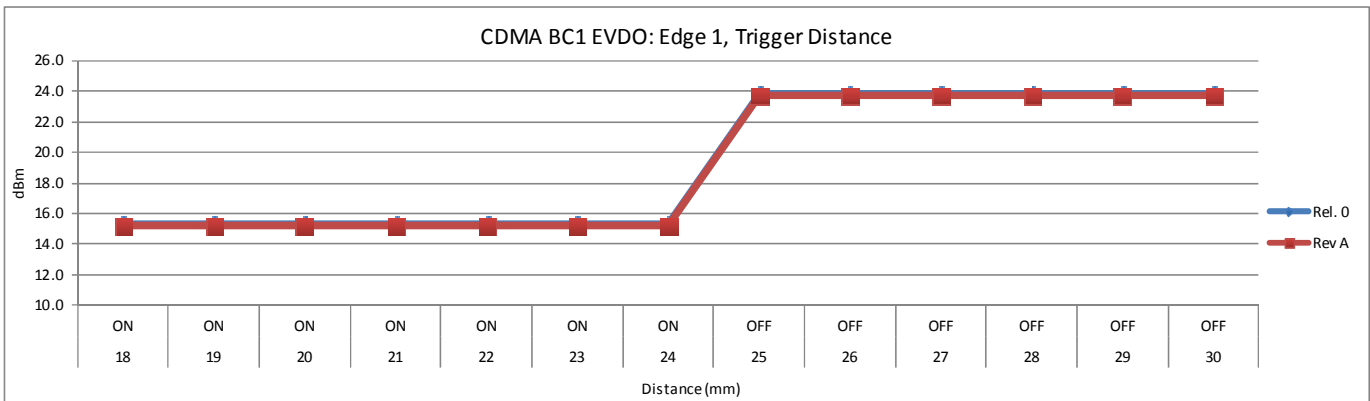
Edge 1, W-CDMA Band IV										
Distance (mm):	20	21	22	23	24	25	26	27	28	29
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
R99	17.6	17.6	17.6	17.6	17.6	23.2	23.2	23.2	23.2	23.2
HSDPA Sub-test 1	17.1	17.1	17.1	17.1	17.1	22.8	22.8	22.8	22.8	22.8
HSDPA Sub-test 2	17.0	17.0	17.0	17.0	17.0	22.8	22.8	22.8	22.8	22.8
HSDPA Sub-test 3	16.5	16.5	16.5	16.5	16.5	22.3	22.3	22.3	22.3	22.3
HSDPA Sub-test 4	16.5	16.5	16.5	16.5	16.5	22.3	22.3	22.3	22.3	22.3
HSPA Sub-test 1	17.3	17.3	17.3	17.3	17.3	22.2	22.2	22.2	22.2	22.2
HSPA Sub-test 2	15.5	15.5	15.5	15.5	15.5	21.4	21.4	21.4	21.4	21.4
HSPA Sub-test 3	15.9	15.9	15.9	15.9	15.9	21.5	21.5	21.5	21.5	21.5
HSPA Sub-test 4	16.1	16.1	16.1	16.1	16.1	21.2	21.2	21.2	21.2	21.2
HSPA Sub-test 5	16.9	16.9	16.9	16.9	16.9	22.7	22.7	22.7	22.7	22.7



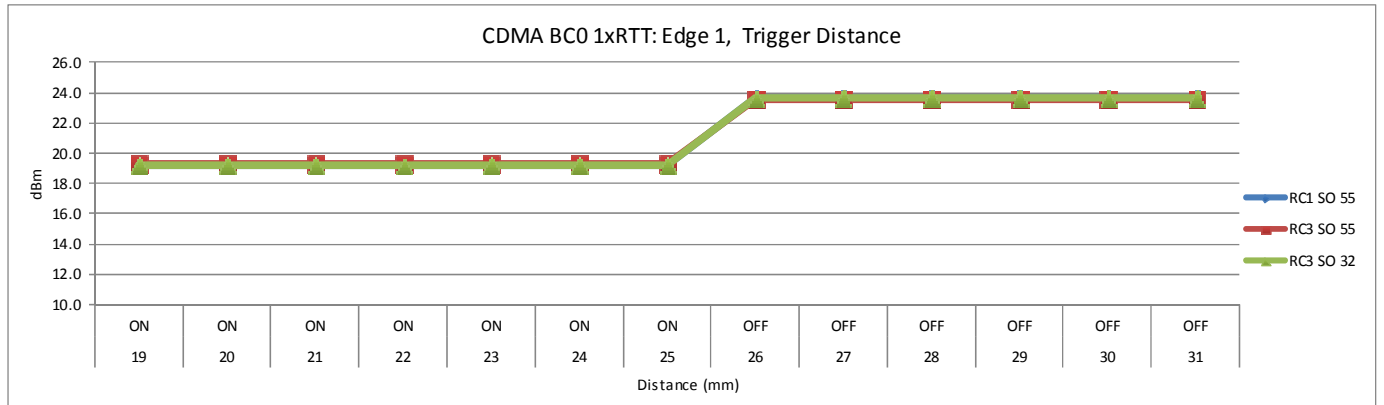
Edge 1, CDMA BC1 1xRTT													
Distance (mm):	18	19	20	21	22	23	24	25	26	27	28	29	30
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
RC1 SO 55	14.3	14.3	14.3	14.3	14.3	14.3	14.3	23.9	23.9	23.9	23.9	23.9	23.9
RC3 SO 55	14.5	14.5	14.5	14.5	14.5	14.5	14.5	23.8	23.8	23.8	23.8	23.8	23.8
RC3 SO 32	15.5	15.5	15.5	15.5	15.5	15.5	15.5	23.9	23.9	23.9	23.9	23.9	23.9



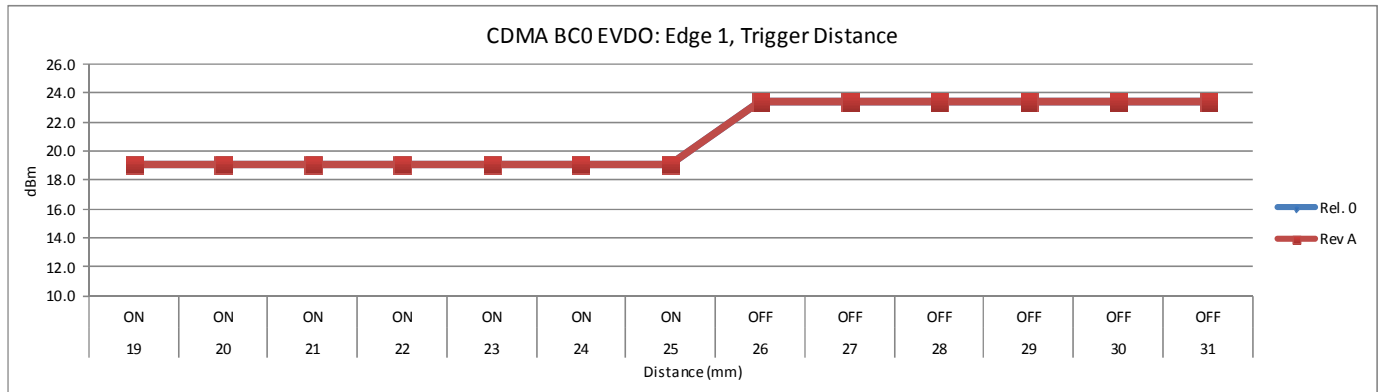
Edge 1, CDMA BC1 EVDO													
Distance (mm):	18	19	20	21	22	23	24	25	26	27	28	29	30
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Rel. 0	15.4	15.4	15.4	15.4	15.4	15.4	15.4	23.8	23.8	23.8	23.8	23.8	23.8
Rev A	15.2	15.2	15.2	15.2	15.2	15.2	15.2	23.8	23.8	23.8	23.8	23.8	23.8



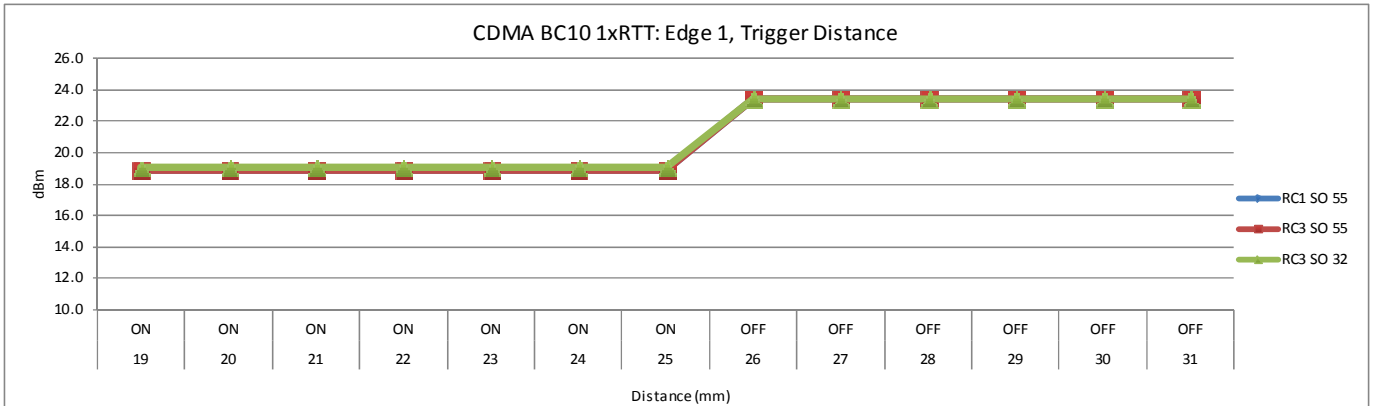
Edge 1, CDMA BC0 1xRTT													
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
RC1 SO 55	19.2	19.2	19.2	19.2	19.2	19.2	19.2	23.6	23.6	23.6	23.6	23.6	23.6
RC3 SO 55	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.6	23.6	23.6	23.6	23.6	23.6
RC3 SO 32	19.2	19.2	19.2	19.2	19.2	19.2	19.2	23.6	23.6	23.6	23.6	23.6	23.6



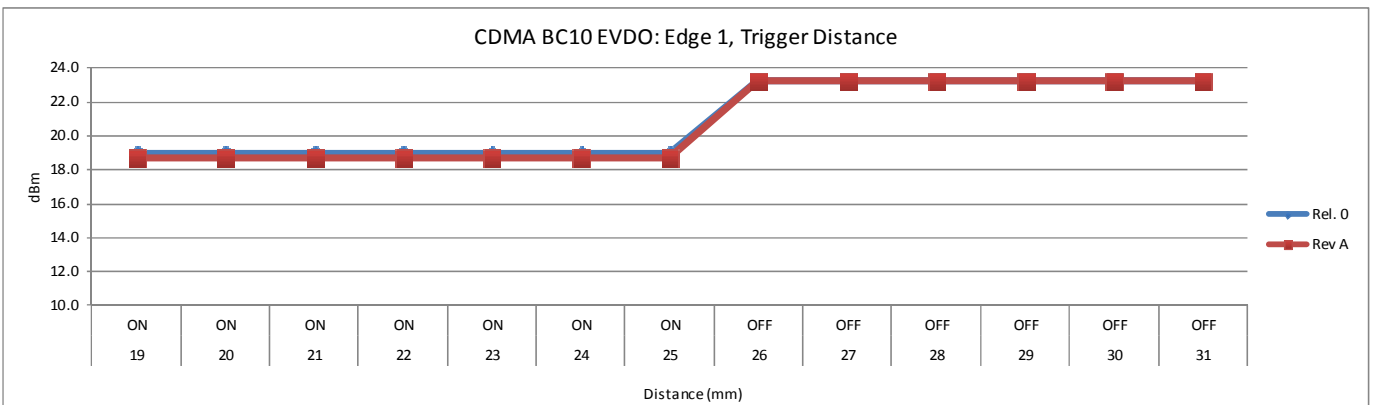
Edge 1, CDMA BC0 EVDO													
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Rel. 0	19.1	19.1	19.1	19.1	19.1	19.1	19.1	23.4	23.4	23.4	23.4	23.4	23.4
Rev A	19.1	19.1	19.1	19.1	19.1	19.1	19.1	23.4	23.4	23.4	23.4	23.4	23.4



Edge 1, CDMA BC10 1xRTT													
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
RC1 SO 55	18.9	18.9	18.9	18.9	18.9	18.9	18.9	23.4	23.4	23.4	23.4	23.4	23.4
RC3 SO 55	18.9	18.9	18.9	18.9	18.9	18.9	18.9	23.4	23.4	23.4	23.4	23.4	23.4
RC3 SO 32	19.1	19.1	19.1	19.1	19.1	19.1	19.1	23.5	23.5	23.5	23.5	23.5	23.5



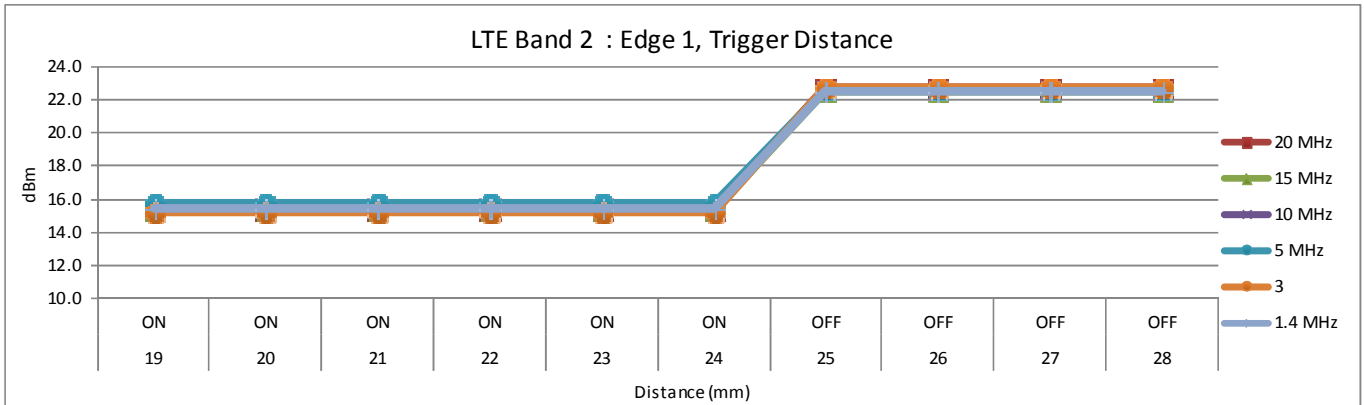
Edge 1, CDMA BC10 EVDO													
Distance (mm):	19	20	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Rel. 0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.3	23.3	23.3	23.3	23.3	23.3
Rev A	18.7	18.7	18.7	18.7	18.7	18.7	18.7	23.2	23.2	23.2	23.2	23.2	23.2



LTE Band 2

Edge 1

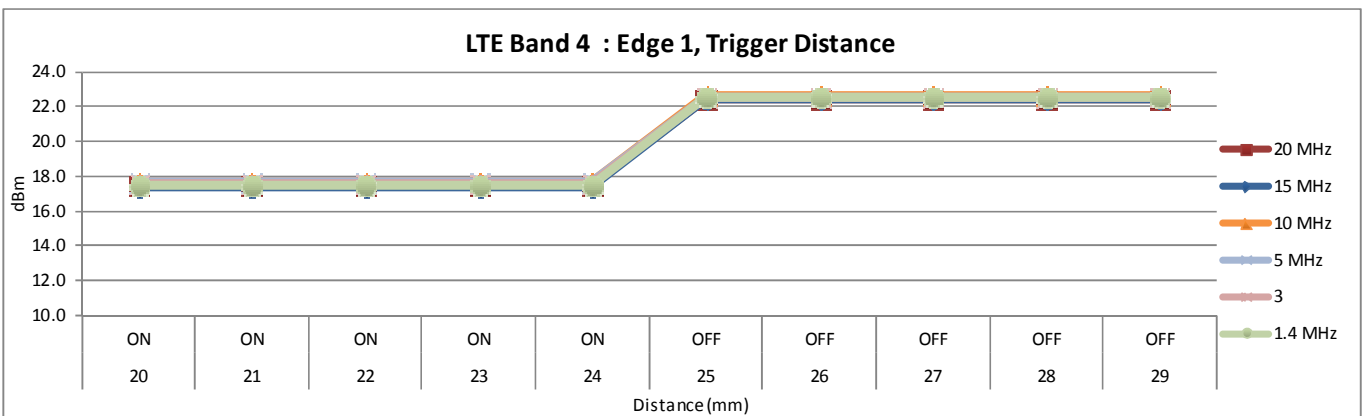
Edge 1, LTE Band 2										
Distance (mm):	19	20	21	22	23	24	25	26	27	28
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF
20 MHz	15.3	15.3	15.3	15.3	15.3	15.3	22.7	22.7	22.7	22.7
15 MHz	15.3	15.3	15.3	15.3	15.3	15.3	22.6	22.6	22.6	22.6
10 MHz	15.5	15.5	15.5	15.5	15.5	15.5	22.6	22.6	22.6	22.6
5 MHz	15.7	15.7	15.7	15.7	15.7	15.7	22.6	22.6	22.6	22.6
3	15.2	15.2	15.2	15.2	15.2	15.2	22.7	22.7	22.7	22.7
1.4 MHz	15.4	15.4	15.4	15.4	15.4	15.4	22.6	22.6	22.6	22.6



LTE Band 4

Edge 1

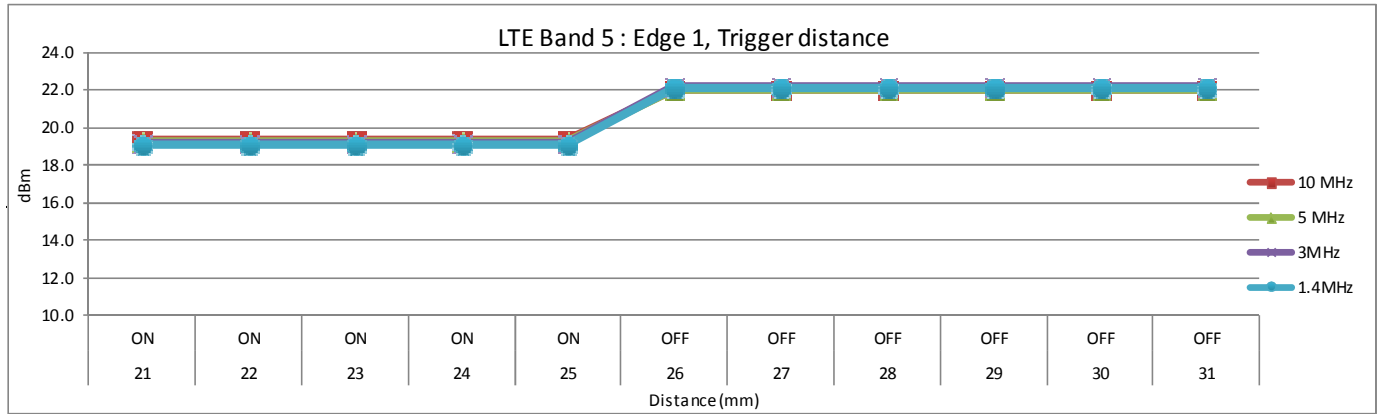
Edge 1, LTE Band 4										
Distance (mm):	20	21	22	23	24	25	26	27	28	29
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
20 MHz	17.5	17.5	17.5	17.5	17.5	22.5	22.5	22.5	22.5	22.5
15 MHz	17.4	17.4	17.4	17.4	17.4	22.5	22.5	22.5	22.5	22.5
10 MHz	17.6	17.6	17.6	17.6	17.6	22.6	22.6	22.6	22.6	22.6
5 MHz	17.7	17.7	17.7	17.7	17.7	22.6	22.6	22.6	22.6	22.6
3	17.6	17.6	17.6	17.6	17.6	22.6	22.6	22.6	22.6	22.6
1.4 MHz	17.5	17.5	17.5	17.5	17.5	22.6	22.6	22.6	22.6	22.6



LTE Band 5

Edge 1

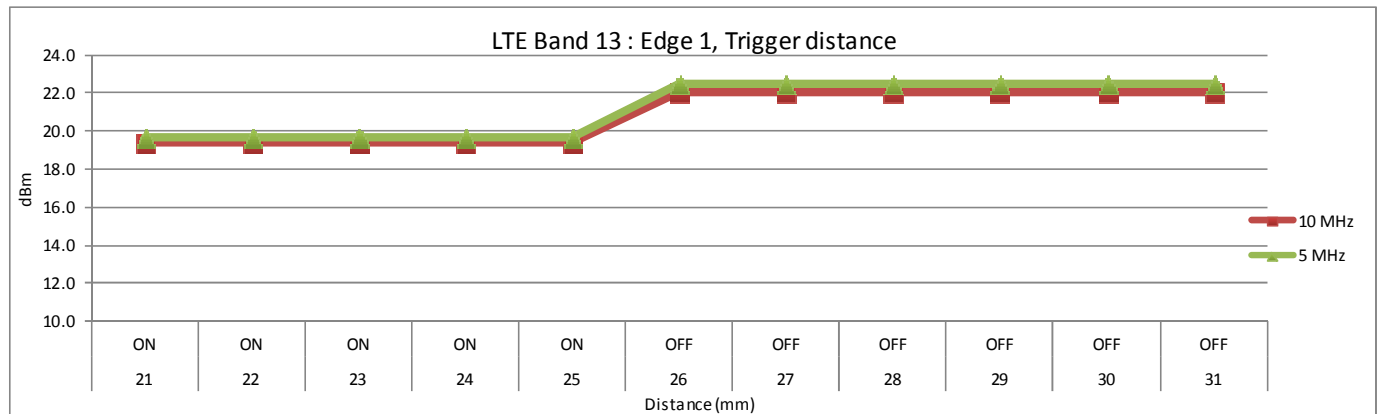
Edge 1, LTE Band 5											
Distance (mm):	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
10 MHz	19.3	19.3	19.3	19.3	19.3	22.0	22.0	22.0	22.0	22.0	22.0
5 MHz	19.3	19.3	19.3	19.3	19.3	22.0	22.0	22.0	22.0	22.0	22.0
3MHz	19.2	19.2	19.2	19.2	19.2	22.2	22.2	22.2	22.2	22.2	22.2
1.4MHz	19.1	19.1	19.1	19.1	19.1	22.1	22.1	22.1	22.1	22.1	22.1



LTE Band 13

Edge 1

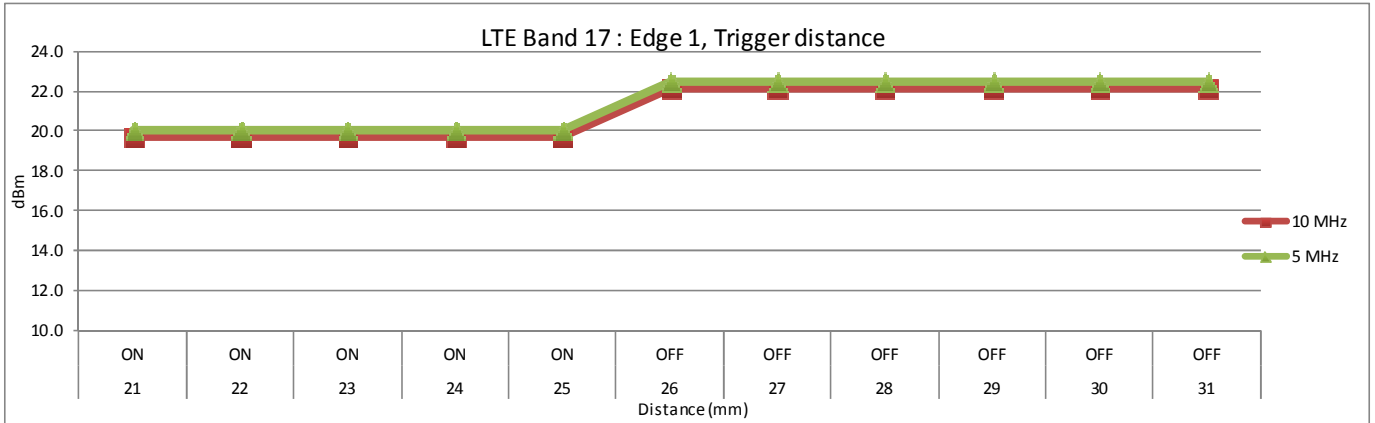
Edge 1, LTE Band 13											
Distance (mm):	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
10 MHz	19.4	19.4	19.4	19.4	19.4	22.0	22.0	22.0	22.0	22.0	22.0
5 MHz	19.7	19.7	19.7	19.7	19.7	22.5	22.5	22.5	22.5	22.5	22.5



LTE Band 17

Edge 1

Edge 1, LTE Band 17											
Distance (mm):	21	22	23	24	25	26	27	28	29	30	31
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
10 MHz	19.7	19.7	19.7	19.7	19.7	22.1	22.1	22.1	22.1	22.1	22.1
5 MHz	20.1	20.1	20.1	20.1	20.1	22.5	22.5	22.5	22.5	22.5	22.5



LTE Band 25

Edge 1

Edge 1, LTE Band 25										
Distance (mm):	19	20	21	22	23	24	25	26	27	28
Proximity sensor with reduced power activation:	ON	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF
20 MHz	14.9	14.9	14.9	14.9	14.9	14.9	22.4	22.4	22.4	22.4
15 MHz	14.7	14.7	14.7	14.7	14.7	14.7	22.5	22.5	22.5	22.5
10 MHz	14.9	14.9	14.9	14.9	14.9	14.9	22.4	22.4	22.4	22.4
5 MHz	15.2	15.2	15.2	15.2	15.2	15.2	22.5	22.5	22.5	22.5
3 MHz	15.0	15.0	15.0	15.0	15.0	15.0	22.4	22.4	22.4	22.4
1.4 MHz	15.0	15.0	15.0	15.0	15.0	15.0	22.5	22.5	22.5	22.5

