

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1955-5, XT1955DL, XT1955-6
FCC ID : IHDT56XQ1
STANDARD : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

The product was received on Sep. 28, 2018 and testing was started from Nov. 15, 2018 and completed on Dec. 02, 2018. We, Sporton International (Kunshan) Inc, would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: Mark Qu / Manager



Sporton International (Kunshan) Inc.
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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA892801	Rev. 01	Initial issue of report	Dec. 26, 2018



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT1955-5, XT1955DL, XT1955-6**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.34	1.32	1.32	1.59
		GSM1900	<0.10	1.20	1.20	
	WCDMA	Band V	0.42	1.30	1.35	
		Band IV	0.17	1.43	1.43	
		Band II	<0.10	1.44	1.44	
	CDMA2000	BC10	0.30	1.22	1.24	
		BC0	0.40	1.39	1.43	
		BC1	0.10	1.34	1.14	
	LTE	Band 12/Band 17	0.32	1.10	1.10	
		Band 13	0.33	1.35	1.35	
		Band 14	0.33	1.39	1.39	
		Band 26/Band 5	0.35	1.26	1.26	
		Band 71	0.15	0.58	0.58	
		Band 66/Band 4	0.14	1.42	1.44	
		Band 25/Band 2	<0.10	1.36	1.41	
		Band 30	0.15	1.39	1.28	
		Band 7	0.28	1.41	1.30	
		Band 41/ Band 38	0.20	1.40	1.40	
DTS	WLAN	2.4GHz WLAN	0.86	0.46	0.46	1.59
NII		5GHz WLAN	0.36	1.17	1.17	1.51
DSS	Bluetooth	2.4GHz Bluetooth	0.10	<0.10	<0.10	1.51



Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM850	1.66	3.98
		GSM1900	3.28	
	WCDMA	Band V	2.37	
		Band IV	3.52	
		Band II	3.58	
	CDMA2000	BC10	1.96	
		BC0	2.16	
		BC1	3.63	
	LTE	Band 13	1.50	
		Band 14	2.29	
		Band 26/Band 5	1.64	
		Band 66/Band 4	3.37	
		Band 25/Band 2	3.56	
		Band 30	3.24	
		Band 7	3.03	
Band 41/ Band 38		3.46		
NII	WLAN	5GHz WLAN	1.03	3.98
Date of Testing:			2018/11/15 ~ 2018/12/2	
Remark: This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41 both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.				

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

Testing Laboratory	
Test Site	Sporton International (Kunshan) Inc.
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1955-5, XT1955DL, XT1955-6
FCC ID	IHDT56XQ1
IMEI Code	359525090022743
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 14: 790.5 MHz ~ 795.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is not supported) CDMA2000 : 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20/n HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE
HW Version	DVT 2
SW Version	PPO29.60
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype
Remark: - WLAN operation in 5600 MHz ~ 5650 MHz is notched. - This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. - This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.	



4. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
5. This device does not support DTM operation and supports GRPS/EGRPS mode up to multi-slot class 12.
6. The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. When front or back body worn condition is detected, GSM1900, WCDMA B2 / B4 / B5, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B41 / B66 and WLAN5.2/5.3/5.5/5.8GHz reduced power will be active. (P-sensor can't work at detecting presence of the user's body at the four edges of the device.)
7. When hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM1900, WCDMA B2 / B4 / B5, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B38 / B41 / B66 and WLAN5.2/5.8GHz.
8. This device hotspot reduced power and P-sensor reduced power level are the same for WCDMA B5, LTE B30 and WLAN5.2/5.8GHz. And for other bands are different.
9. For P-sensor reduced power level is higher than hotspot reduced power, so for front/back P-sensor SAR can represent conservatively for front/back hotspot SAR.
10. P-sensor can detect handheld state, GSM1900, WCDMA B2 / B4, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B66 for front/back/bottom sides, and WLAN 5.2/5.3/5.5/5.8GHz for front/back sides of product specific 10g SAR condition reduced powers will be active.
11. This device has two WWAN transmitter antennas. WWAN antenna 1 is located at the right side of bottom edge of the device and WWAN antenna 2 is located at the left side of bottom edge of the device which can refer to antenna location chapter. WWAN antenna 1 frequency bands include GSM850/1900, WCDMA B2 / B4 / B5, CDMA2000 BC0 / BC1 / BC10, LTE B2 / B4 / B5 / B12 / B13 / B14 / B17 / B25 / B26 / B66 / B71, WWAN antenna 2 frequency bands include LTE B7 / B30 / B38 / B41.
12. This device supports HPUE for LTE band 41 with class 2 level, so HPUE SAR has been performed.
13. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the WCDMA, CDMA and LTE modes of WWAN antenna 1. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner are included in the operational description and supplemental data for additional information on section17.

4.2 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Salom)	Model Name	SC-51
	Power Rating	I/P: 100-240 Vac, 600mA O/P: 5Vdc,3000mA; 9Vdc,2000mA; 12Vdc,1500mA		
AC Adapter 2	Brand Name	Motorola (Chenyang)	Model Name	SC-51
	Power Rating	I/P: 100-240 Vac, 600mA O/P: 5Vdc,3000mA; 9Vdc,2000mA; 12Vdc,1500mA		
Battery	Brand Name	Motorola (ATL)	Model Name	JK50
	Power Rating	3.8Vdc,5000mAh	Type	Li-ion, Polymer
USB Cable	Brand Name	Motorola (Saibao)	Model Name	711310002491
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		

4.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																							
FCC ID	IHDT56XQ1																																																																						
Equipment Name	Mobile Cellular Phone																																																																						
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 14: 790.5 MHz ~ 795.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz																																																																						
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz,5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																						
Uplink Modulations Used	QPSK, 16QAM and 64QAM																																																																						
LTE Voice / Data requirements	Voice and Data																																																																						
LTE Release Version	R10, Cat4																																																																						
CA Support	Yes, Uplink and Downlink																																																																						
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{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><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><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3								Modulation	Channel bandwidth / Transmission bandwidth (N_{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	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
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16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																																
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64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																																
256 QAM	≥ 1						≤ 5																																																																
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)																																																																						
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																						
Power reduction applied to satisfy SAR compliance	Yes 1. The device employs proximity sensors that detect the presence of the user's body at the front or back faces of the device. When front or back body worn condition is detected, GSM1900, WCDMA B2 / B4 / B5, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B41 / B66 and WLAN5.2/5.3/5.5/5.8GHz reduced power will be active. (P-sensor can't work at detecting presence of the user's body at the four edges of the device.) 2. When hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM1900, WCDMA B2 / B4 / B5, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B38 / B41 / B66 and WLAN5.2/5.8GHz. 3. P-sensor can detect handheld state, GSM1900, WCDMA B2 / B4, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B66 for front/back/bottom sides, and WLAN 5.2/5.3/5.5/5.8GHz for front/back/right/top sides of product specific 10g SAR condition reduced powers will be active.																																																																						



LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.
LTE Carrier Aggregation Additional Information	(1) This device supports LTE Carrier Aggregation (CA) in the uplink for LTE B41 only for power class 3 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. (2) This device supports maximum of 2 carriers in the downlink and 2 carriers in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.

Transmission (H, M, L) channel numbers and frequencies in each LTE band														
LTE Band 2														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860		
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880		
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900		
LTE Band 4														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720		
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5		
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745		
LTE Band 5														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20407	824.7	20415	825.5	20425	826.5	20450	829						
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5						
H	20643	848.3	20635	847.5	20625	846.5	20600	844						
LTE Band 7														
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510						
M	21100	2535	21100	2535	21100	2535	21100	2535						
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560						
LTE Band 12														
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz							
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	23017	699.7	23025	700.5	23035	701.5	23060	704						
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5						
H	23173	715.3	23165	714.5	23155	713.5	23130	711						
LTE Band 13														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)							
L	23205		779.5		23230		782							
M	23230		782											
H	23255		784.5											
LTE Band 14														
	Bandwidth 5 MHz				Bandwidth 10 MHz									
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)							
L	23305		790.5		23330		793							
M	23330		793											
H	23355		795.5											

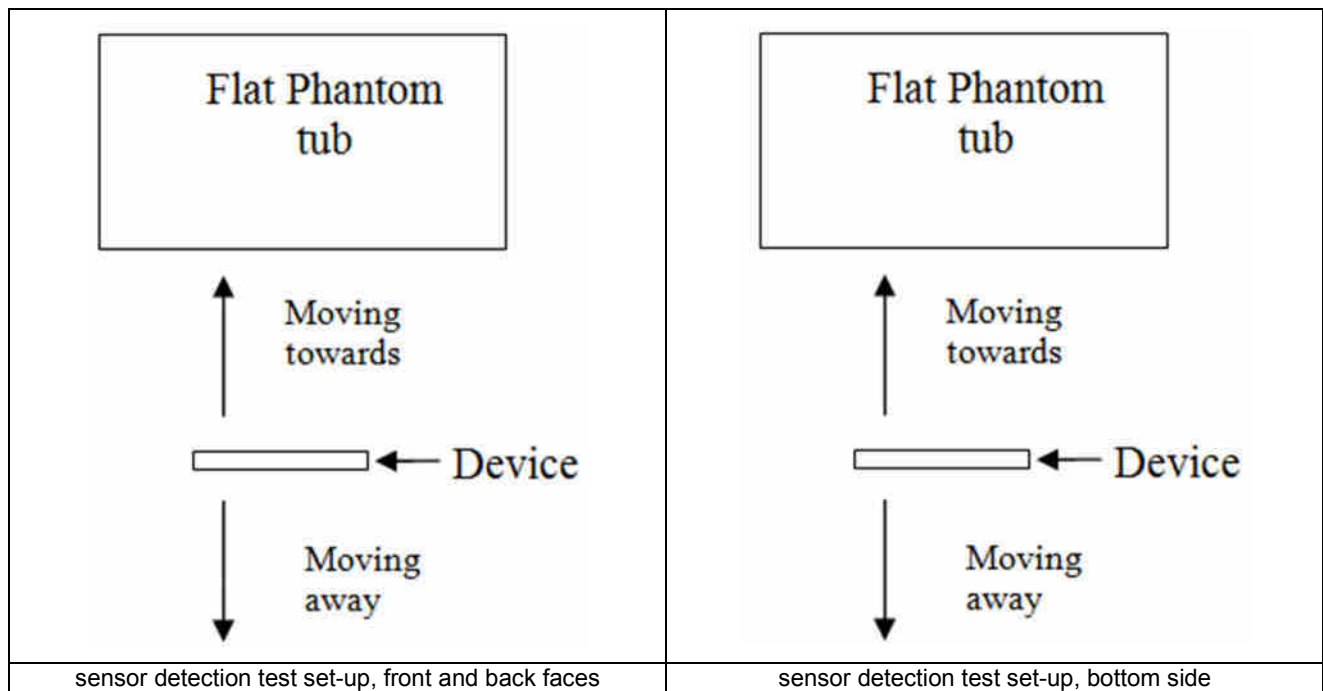


LTE Band 17												
	Bandwidth 5 MHz						Bandwidth 10 MHz					
	Channel #		Freq.(MHz)				Channel #		Freq. (MHz)			
L	23755		706.5				23780		709			
M	23790		710				23790		710			
H	23825		713.5				23800		711			
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26965	841.5
LTE Band 30												
	Bandwidth 5 MHz						Bandwidth 10 MHz					
	Channel #		Freq.(MHz)				Channel #		Freq.(MHz)			
L	27685		2307.5				27710		2310			
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38150	2610	38150	2610
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41490	2680	41490	2680
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673	133222	673	133222	673
M	133247	675.5	133272	678	133297	680.5	133322	683	133322	683	133322	683
H	133447	695.5	133422	693	133397	690.5	133372	688	133372	688	133372	688

5. Proximity Sensor Triggering Test

5.1 Proximity sensor triggering distances(Per KDB616217§6.2)

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (WLAN 5MHz) and lowest (850MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensor placed coincident with antenna elements at the bottom end of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back side surface of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. When the sensor is active, GSM1900, WCDMA B2 / B4 / B5, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B41 / B66 and WLAN5.2/5.3/5.5/5.8GHz reduced power will be active.
4. The sensors used to detect the proximity of the user's body at the front or back side surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s).
5. P-sensor can detect handheld state, GSM1900, WCDMA B2 / B4, CDMA2000 BC1, LTE B2 / B4 / B7 / B25 / B30 / B66 for front/back/bottom sides, and WLAN 5.2/5.3/5.5/5.8GHz for front/back sides of product specific 10g SAR condition reduced powers will be active.



<P-Sensor On>

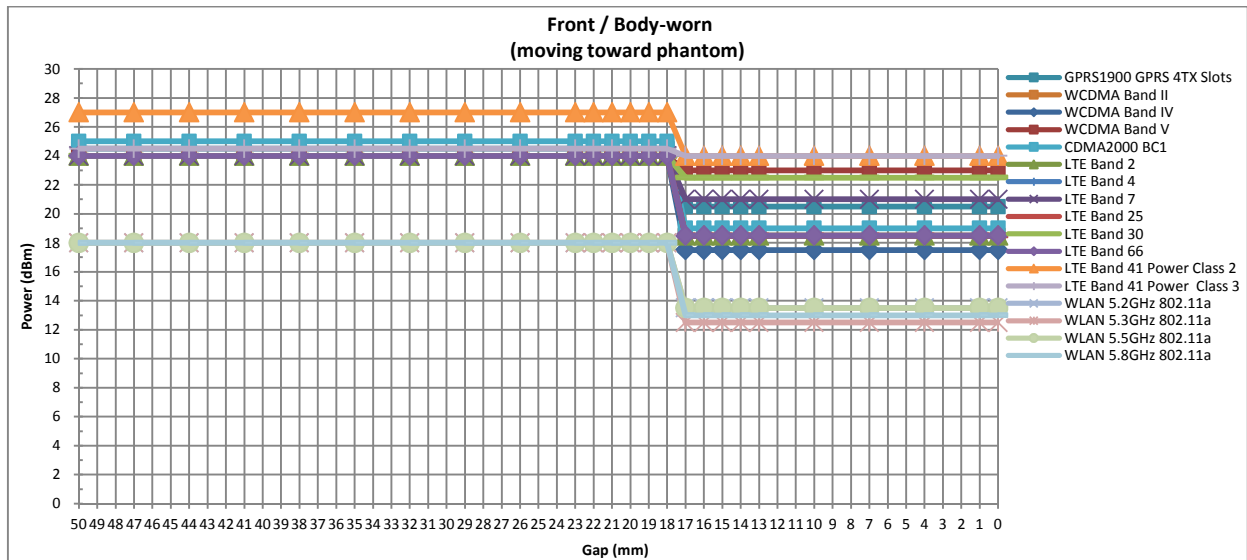
Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	17	24	18	25

TX. Band	Proximity Sensor Triggering Power (dBm)		
	Full	Reduced	Power Reduction (dB)
	Max. Tune Up Limit (dBm)	Max. Tune Up Limit (dBm)	
GSM1900 GPRS 4Tx slots	24.50	20.50	4.00
WCDMA Band II	24.00	18.50	5.50
WCDMA Band IV	24.00	17.50	6.50
WCDMA Band V	24.00	23.00	1.00
CDMA2000 BC1	25.00	19.00	6.00
LTE Band 2	24.00	18.50	5.50
LTE Band 4	24.00	18.50	5.50
LTE Band 7	24.00	21.00	3.00
LTE Band 25	24.00	18.50	5.50
LTE Band 30	24.00	22.50	1.50
LTE Band 66	24.00	18.50	5.50
LTE Band 41 Power Class 2	27.00	24.00	3.00
LTE Band 41 Power Class 3	24.50	24.00	0.50
WLAN 5.2GHz 802.11a	18.00	13.50	4.50
WLAN 5.3GHz 802.11a	18.00	12.50	5.50
WLAN 5.5GHz 802.11a	18.00	13.50	4.50
WLAN 5.8GHz 802.11a	18.00	13.00	5.00

Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Front / Body-worn (moving toward phantom)

Distance	50	47	44	41	38	35	32	29	26	23	22	21	20	19	18	17	16	15	14	13	10	7	4	1	0
GSM1900 GPRS 4Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
WCDMA Band II	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
WCDMA Band IV	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
WCDMA Band V	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
CDMA2000 BC1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
LTE Band 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 25	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 30	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
LTE Band 66	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 41 Power Class 2	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 41 Power Class 3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WLAN 5.2GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.3GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
WLAN 5.5GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.8GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

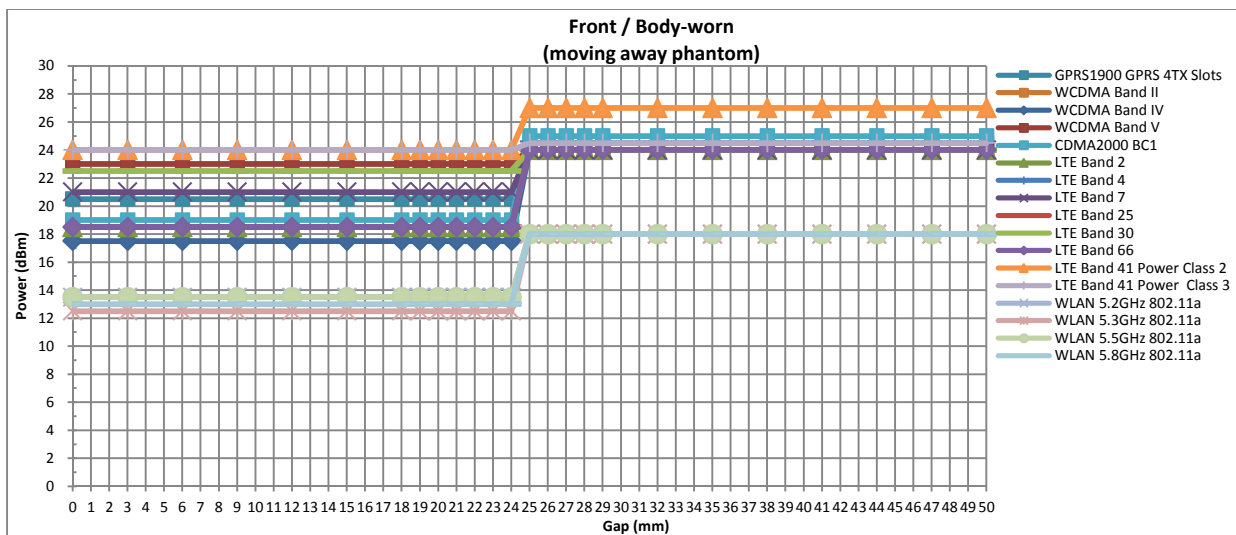




Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Front / Body-worn (moving away phantom)

Distance	0	3	6	9	12	15	18	19	20	21	22	23	24	25	26	27	28	29	32	35	38	41	44	47	50
GSM1900 GPRS 4Tx slots	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA Band II	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band IV	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band V	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA2000 BC1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE Band 2	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 4	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 7	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 25	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 66	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 41 Power Class 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
LTE Band 41 Power Class 3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WLAN 5.2GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.3GHz 802.11a	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.5GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.8GHz 802.11a	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0

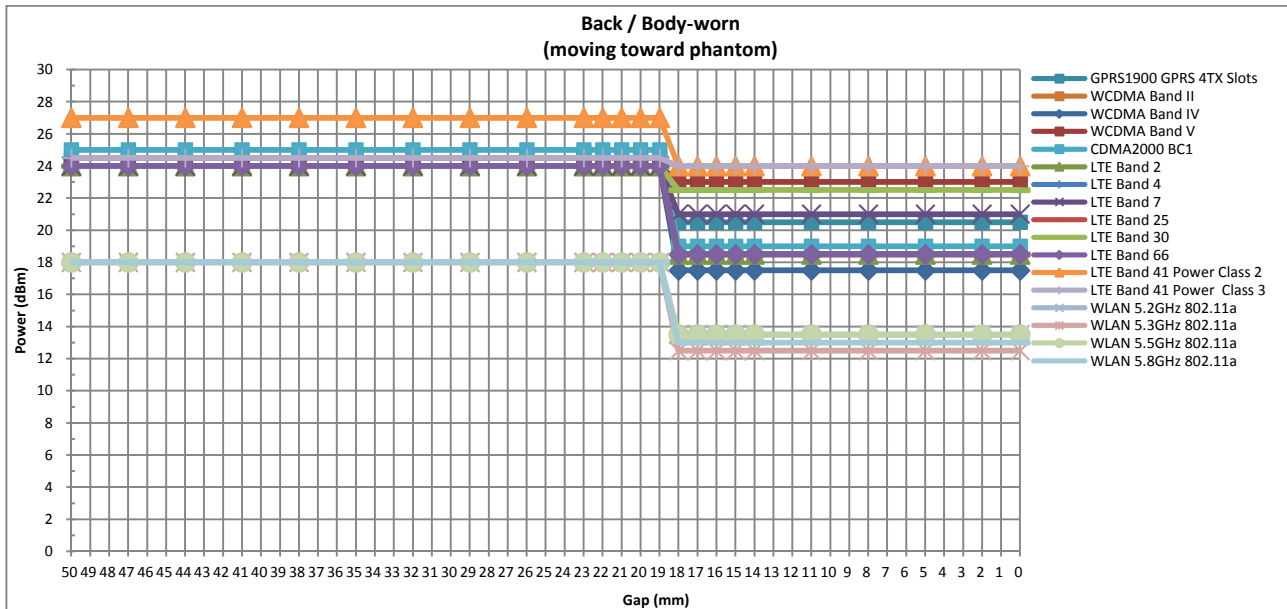




Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Back / Body-worn (moving toward phantom)

Distance	50	47	44	41	38	35	32	29	26	23	22	21	20	19	18	17	16	15	14	11	8	5	2	0
GSM1900 GPRS 4Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
WCDMA Band II	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
WCDMA Band IV	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
WCDMA Band V	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
CDMA2000 BC1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
LTE Band 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 25	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 30	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
LTE Band 66	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
LTE Band 41 Power Class 2	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 41 Power Class 3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WLAN 5.2GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.3GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
WLAN 5.5GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.8GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

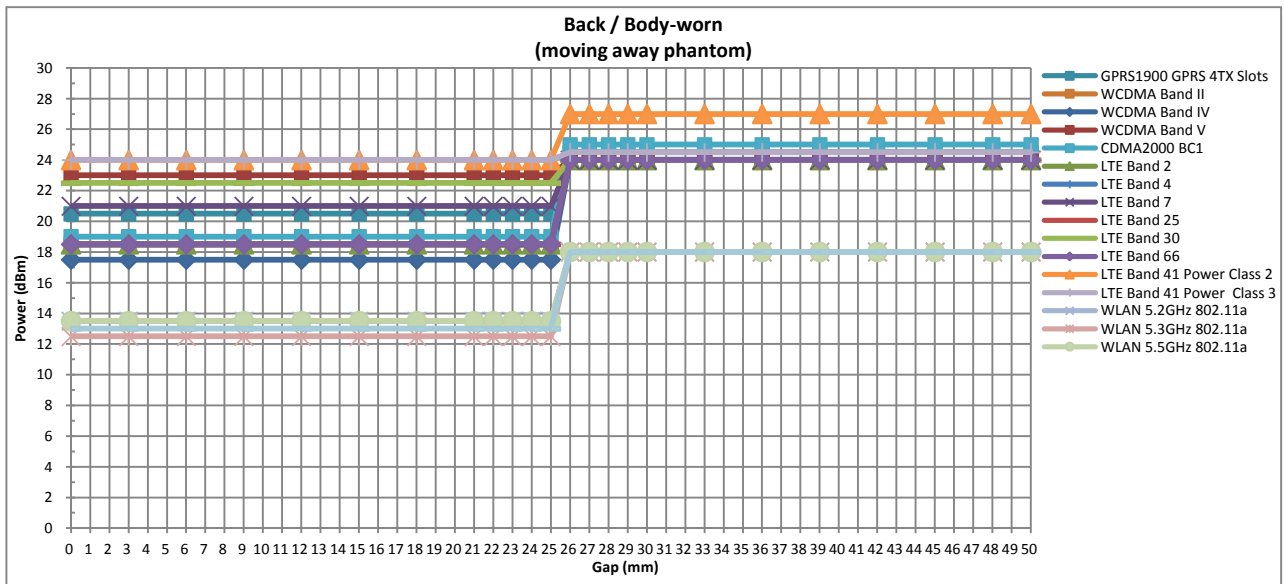




Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Back / Body-worn (moving away phantom)

Distance	0	3	6	9	12	15	18	21	22	23	24	25	26	27	28	29	30	33	36	39	42	45	48	50
GSM1900 GPRS 4Tx slots	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA Band II	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band IV	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band V	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA2000 BC1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE Band 2	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 4	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 7	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 25	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 66	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 41 Power Class 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
LTE Band 41 Power Class 3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WLAN 5.2GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.3GHz 802.11a	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.5GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.8GHz 802.11a	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0



<Handheld On>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving towards	Moving towards	Moving towards
Minimum	7	9	9	14	12	16

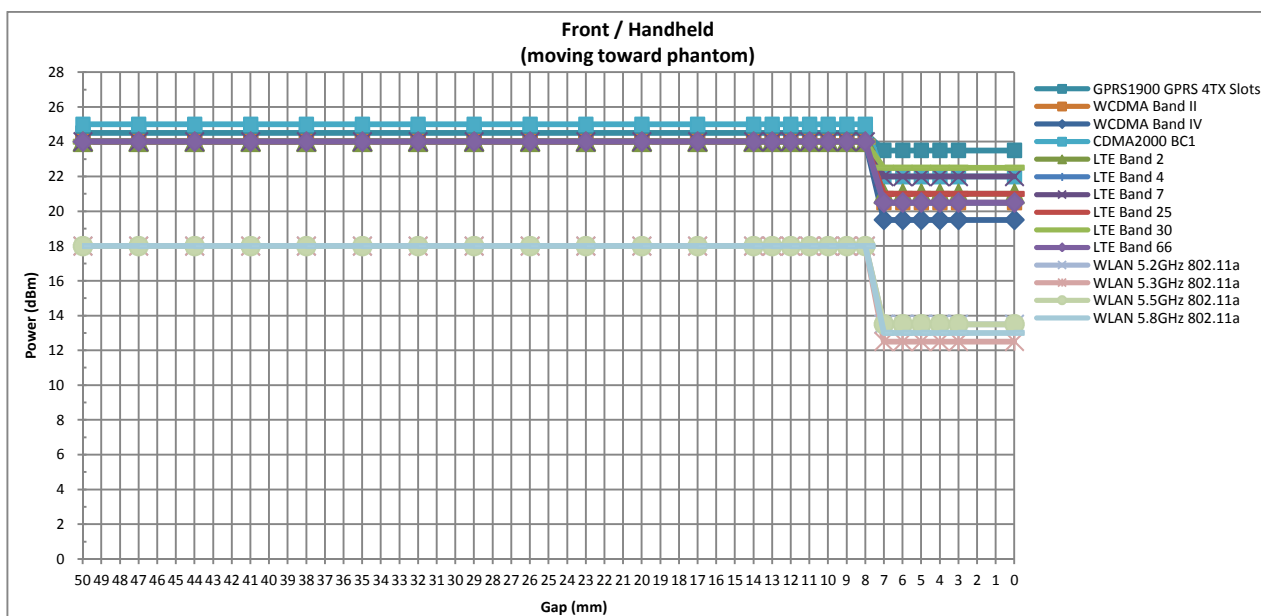
TX. Band	Proximity Sensor Triggering Power (dBm)		
	Full	Reduced	Power Reduction (dB)
	Max. Tune Up Limit (dBm)	Max. Tune Up Limit (dBm)	
GSM1900 GPRS 4Tx slots	24.50	23.50	1.00
WCDMA Band II	24.00	20.50	3.50
WCDMA Band IV	24.00	19.50	4.50
CDMA2000 BC1	25.00	22.00	3.00
LTE Band 2	24.00	21.00	3.00
LTE Band 4	24.00	20.50	3.50
LTE Band 7	24.00	22.00	2.00
LTE Band 25	24.00	21.00	3.00
LTE Band 30	24.00	22.50	1.50
LTE Band 66	24.00	20.50	3.50
WLAN 5.2GHz 802.11a	18.00	13.50	4.50
WLAN 5.3GHz 802.11a	18.00	12.50	5.50
WLAN 5.5GHz 802.11a	18.00	13.50	4.50
WLAN 5.8GHz 802.11a	18.00	13.00	5.00



Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Front / Handheld (moving toward phantom)

Distance	50	47	44	41	38	35	32	29	26	23	20	17	14	13	12	11	10	9	8	7	6	5	4	3	0
GSM1900 GPRS 4Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.5	23.5	23.5	23.5	23.5	23.5
WCDMA Band II	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5
WCDMA Band IV	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	19.5	19.5	19.5	19.5	19.5	19.5
CDMA2000 BC1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5
LTE Band 7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 25	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 30	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5	22.5	22.5	22.5	22.5
LTE Band 66	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5
WLAN 5.2GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.3GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	12.5	12.5	12.5	12.5	12.5	12.5
WLAN 5.5GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.8GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.0	13.0	13.0	13.0	13.0	13.0

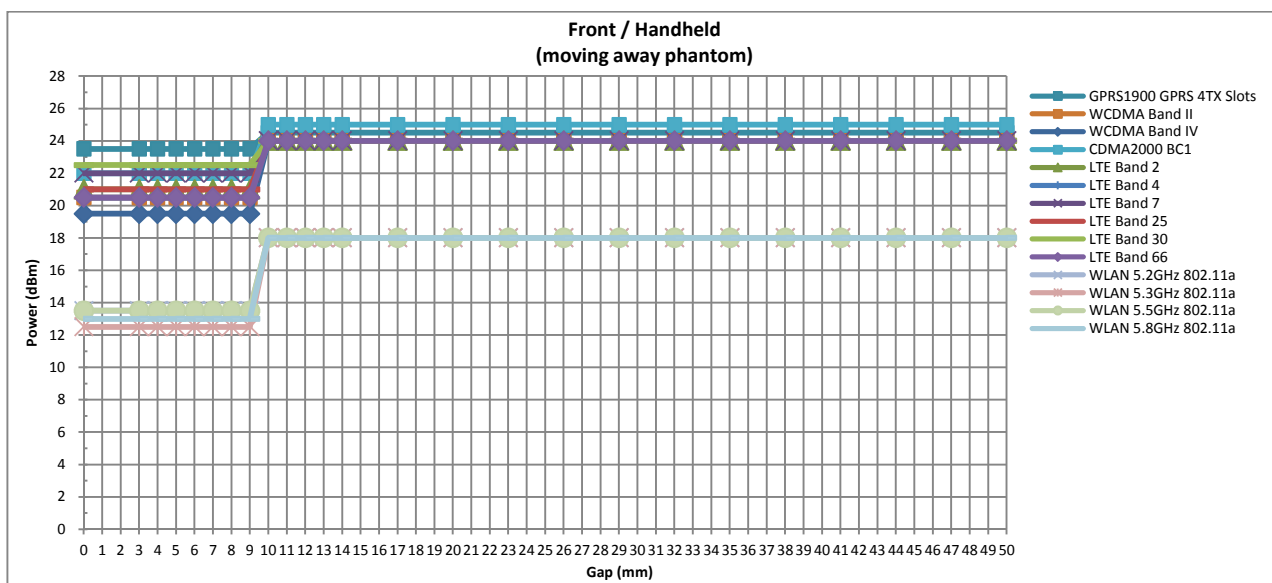




Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

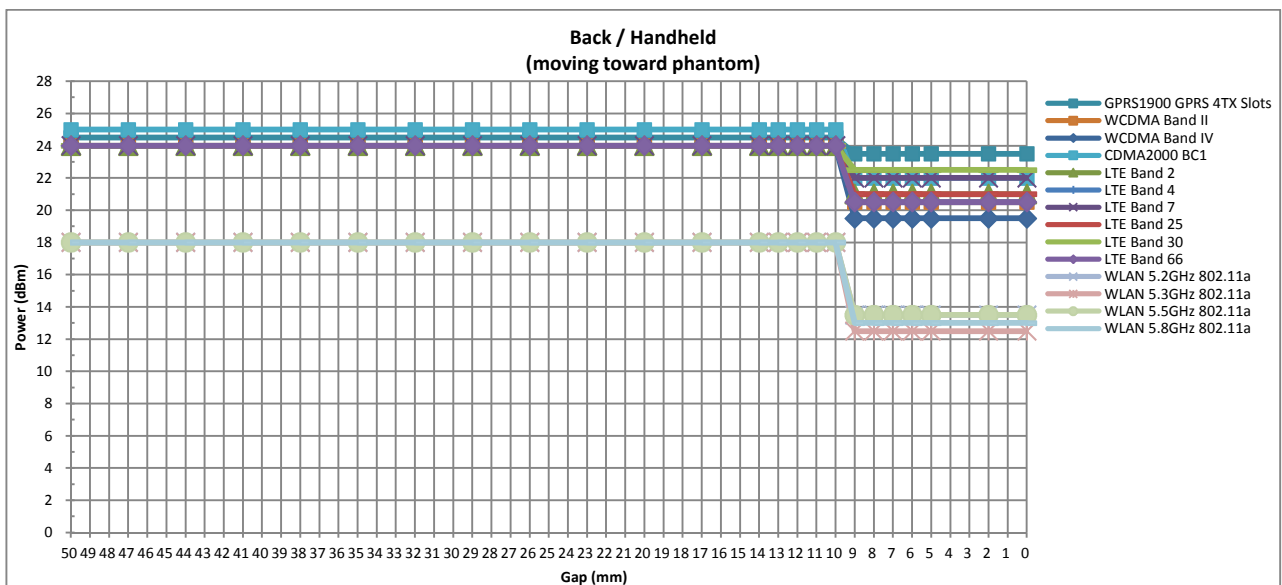
Front / Handheld (moving away phantom)

Distance	0	3	4	5	6	7	8	9	10	11	12	13	14	17	20	23	26	29	32	35	38	41	44	47	50
GSM1900 GPRS 4Tx slots	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA Band II	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band IV	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA2000 BC1	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE Band 2	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 7	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 25	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 66	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WLAN 5.2GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.3GHz 802.11a	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.5GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.8GHz 802.11a	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0





Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)																								
Back / Handheld (moving toward phantom)																								
Distance	50	47	44	41	38	35	32	29	26	23	20	17	14	13	12	11	10	9	8	7	6	5	2	0
GSM1900 GPRS 4Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
WCDMA Band II	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5
WCDMA Band IV	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5
CDMA2000 BC1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5
LTE Band 7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 25	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 30	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5
LTE Band 66	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5
WLAN 5.2GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.3GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5
WLAN 5.5GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5
WLAN 5.8GHz 802.11a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0

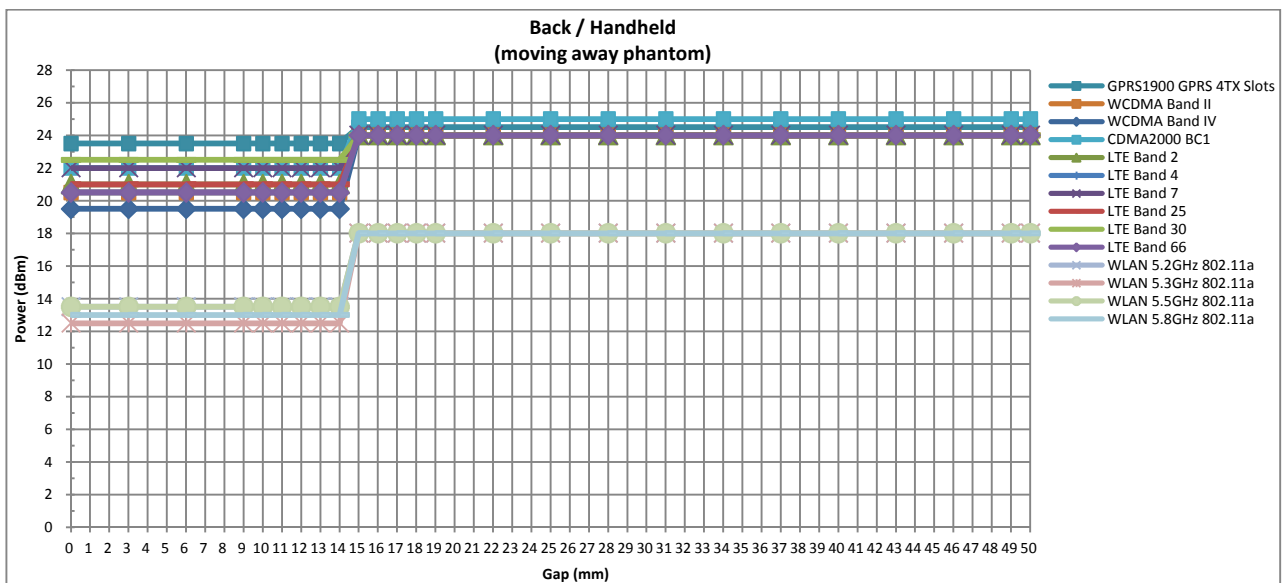




Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

Back / Handheld (moving away phantom)

Distance	0	3	6	9	10	11	12	13	14	15	16	17	18	19	22	25	28	31	34	37	40	43	46	49	50
GSM1900 GPRS 4Tx slots	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA Band II	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band IV	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA2000 BC1	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE Band 2	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 7	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 25	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 66	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WLAN 5.2GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.3GHz 802.11a	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.5GHz 802.11a	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
WLAN 5.8GHz 802.11a	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0





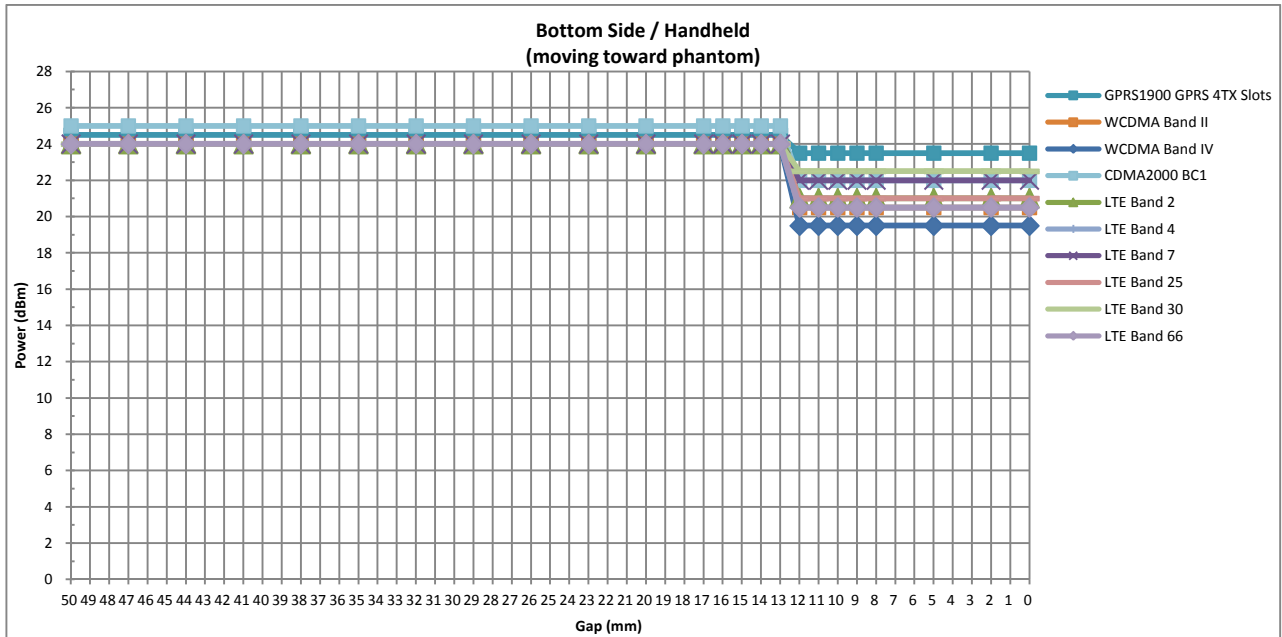
FCC SAR Test Report

Report No. : FA892801

Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)

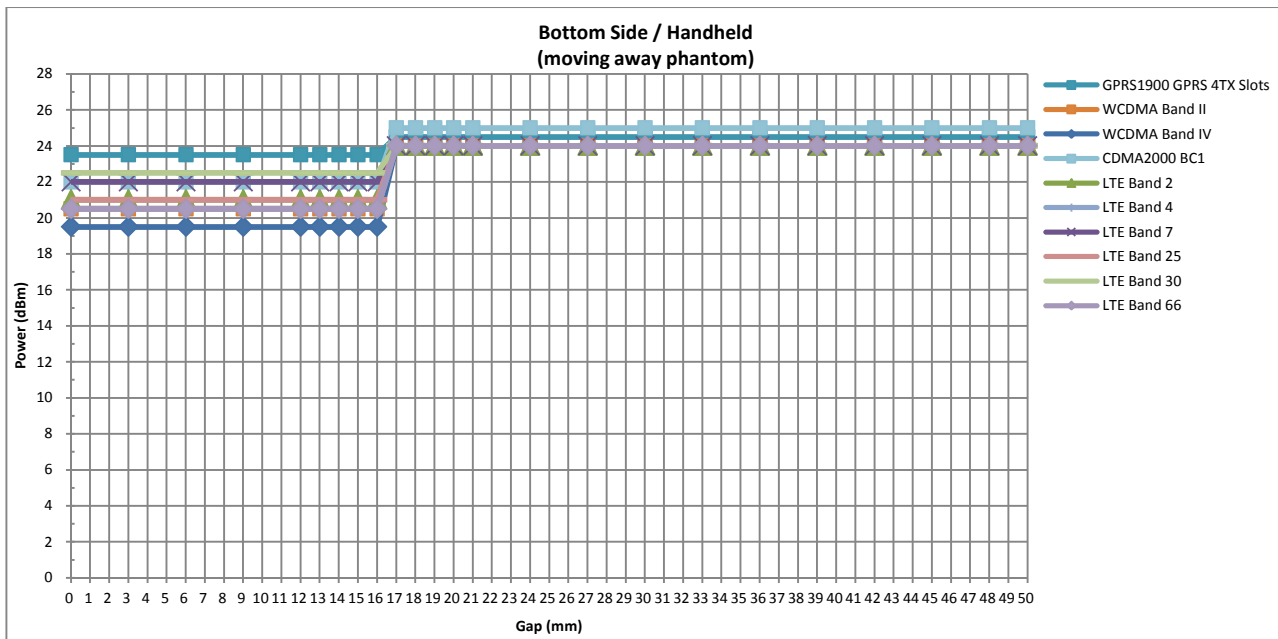
Bottom Side / Handheld (moving toward phantom)

Distance	50	47	44	41	38	35	32	29	26	23	20	17	16	15	14	13	12	11	10	9	8	5	2	0
GSM1900 GPRS 4Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
WCDMA Band II	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
WCDMA Band IV	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
CDMA2000 BC1	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 2	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
LTE Band 7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
LTE Band 25	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
LTE Band 30	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
LTE Band 66	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5





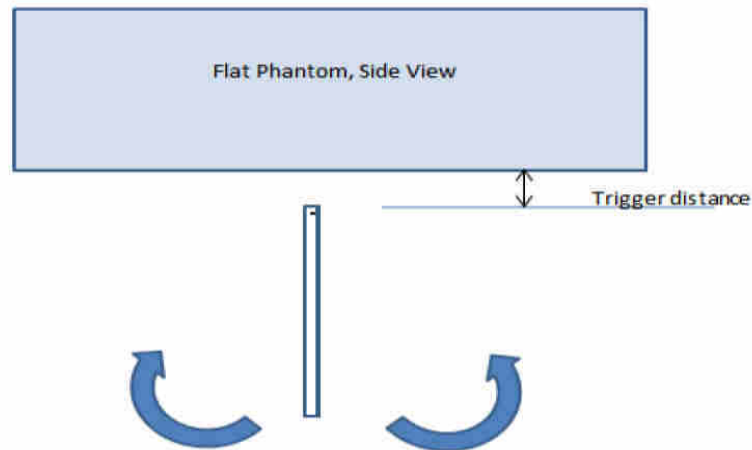
Proximity Sensor Triggering Distance (mm) and Triggering Power (dBm)																								
Bottom Side / Handheld (moving away phantom)																								
Distance	0	3	6	9	12	13	14	15	16	17	18	19	20	21	24	27	30	33	36	39	42	45	48	50
GSM1900 GPRS 4Tx slots	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
WCDMA Band II	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
WCDMA Band IV	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA2000 BC1	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE Band 2	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 4	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 7	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 25	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 30	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 66	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0



5.2 Tilt angle influences to proximity sensor triggering(Per KDB616217 §6.4)

The DUT was positioned directly below the flat phantom at the minimum measured trigger distance with bottom side parallel to the base of the flat phantom for each band.

The EUT was rotated about bottom side for angles up to $\pm 45^\circ$. If the output power increased during the rotation the DUT was moved 1mm toward the phantom and the rotation repeated. This procedure was repeated until the power remained reduced for all angles up to $\pm 45^\circ$.



Proximity Sensor Coverage Assesment(Bottom Side)

Table: Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering (Bottom Side)

Main ant Band(MHz)	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status											
		-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°	
GSM1900	16mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA Band II	16mm	on	on	on	on	on	on	on	on	on	on	on	
WCDMA Band IV	16mm	on	on	on	on	on	on	on	on	on	on	on	
CDMA2000 BC1	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 2	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 4	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 7	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 25	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 30	16mm	on	on	on	on	on	on	on	on	on	on	on	
LTE Band 66	16mm	on	on	on	on	on	on	on	on	on	on	on	

Conclusion: As is shown from the validation data, it can be ensured that the proximity sensor can be valid triggered for the DUT tilt coverage exposure condition.

6. RF Exposure Limits

6.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

7. Specific Absorption Rate (SAR)

7.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

7.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

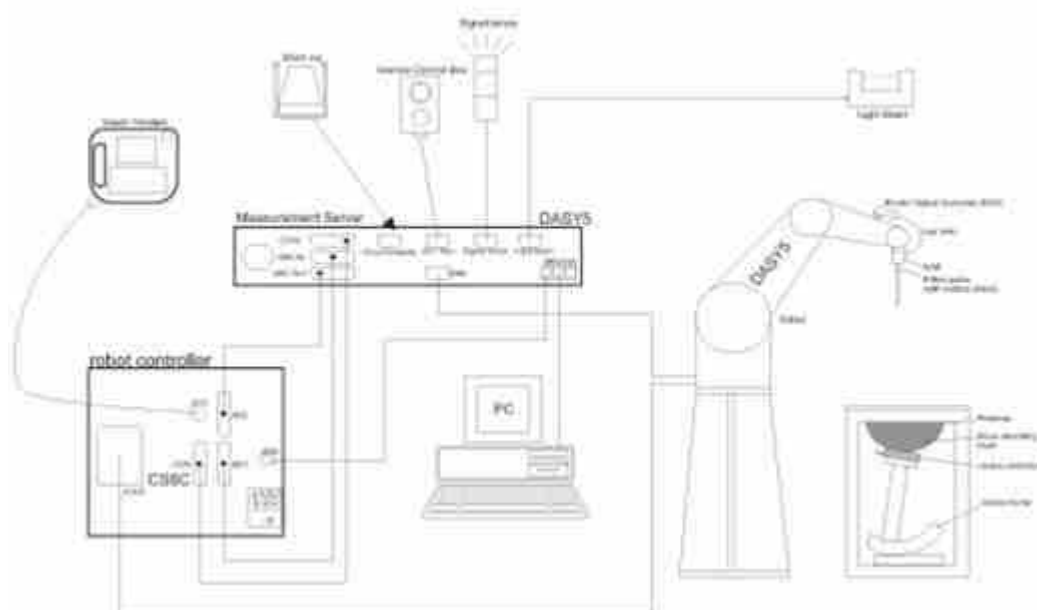
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

8. System Description and Setup

The DASY 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.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

8.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

8.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

9.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

9.2 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. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9.3 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 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 FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 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	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram 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 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
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 <i>area scan based 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.				

9.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

9.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASYS measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1065	2017/12/4	2018/12/3
SPEAG	835MHz System Validation Kit	D835V2	4d091	2017/12/5	2018/12/4
SPEAG	1750MHz System Validation Kit	D1750V2	1069	2017/12/5	2018/12/4
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2017/12/6	2018/12/5
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2018/9/20	2019/9/19
SPEAG	2450MHz System Validation Kit	D2450V2	840	2017/12/7	2018/12/6
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2017/12/7	2018/12/6
SPEAG	5000MHz System Validation Kit	D5GHzV2	1203	2017/12/14	2018/12/13
SPEAG	Data Acquisition Electronics	DAE4	1210	2018/5/28	2019/5/27
SPEAG	Data Acquisition Electronics	DAE4	1358	2018/4/19	2019/4/18
SPEAG	Data Acquisition Electronics	DAE4	1305	2018/5/11	2019/5/10
SPEAG	Data Acquisition Electronics	DAE4	1279	2018/10/22	2019/10/21
SPEAG	Dosimetric E-Field Probe	EX3DV4	3954	2018/1/31	2019/1/30
SPEAG	Dosimetric E-Field Probe	ES3DV3	3293	2018/10/25	2019/10/24
SPEAG	Dosimetric E-Field Probe	EX3DV4	3843	2018/9/27	2019/9/26
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2018/5/31	2019/5/30
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1503	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1842	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201563900	2018/1/26	2019/1/25
Agilent	Wireless Communication Test Set	E5515C	MY52102706	2018/4/17	2019/4/16
Agilent	ENA Series Network Analyzer	E5071C	MY46111157	2018/4/17	2019/4/16
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2018/1/9	2019/1/8
Anritsu	Vector Signal Generator	MG3710A	6201682672	2018/2/6	2019/2/5
R&S	Power Meter	NRVD	102081	2018/8/20	2019/8/19
R&S	Power Sensor	NRV-Z5	100538	2018/8/20	2019/8/19
R&S	Power Sensor	NRV-Z5	100539	2018/8/20	2019/8/19
Anritsu	Power Meter	ML2495A	1419002	2018/5/14	2019/5/13
R&S	CBT BLUETOOTH TESTER	CBT	101246	2018/1/26	2019/1/25
EXA	Spectrum Analyzer	FSV7	101632	2018/1/26	2019/1/25
Testo	Thermometer	608-H1	1241332126	2018/8/21	2019/8/20
FLUKE	DIGITAC THERMOMETER	51II	97240029	2018/8/21	2019/9/20
ARRA	Power Divider	A3200-2	N/A	Note	
MCL	Attenuation1	BW-S10W5+	N/A	Note	
MCL	Attenuation2	BW-S10W5+	N/A	Note	
MCL	Attenuation3	BW-S10W5+	N/A	Note	
Agilent	Dual Directional Coupler	778D	20500	Note	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note	

Note: Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check.

11. System Verification

11.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.



Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
For Body								
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	Head	22.8	0.903	42.105	0.89	41.90	1.46	0.49	±5	2018/11/15
835	Head	22.7	0.908	42.255	0.90	41.50	0.89	1.82	±5	2018/11/18
1750	Head	22.7	1.346	40.243	1.37	40.10	-1.75	0.36	±5	2018/11/19
1900	Head	22.6	1.373	39.730	1.40	40.00	-1.93	-0.68	±5	2018/11/20
2300	Head	22.7	1.691	39.267	1.67	39.50	1.26	-0.59	±5	2018/11/19
2450	Head	22.6	1.864	39.568	1.80	39.20	3.56	0.94	±5	2018/11/29
2600	Head	22.7	2.037	38.062	1.96	39.00	3.93	-2.41	±5	2018/11/19
5250	Head	22.7	4.678	36.999	4.71	35.90	-0.68	3.06	±5	2018/12/1
5600	Head	22.7	5.037	36.493	5.07	35.50	-0.65	2.80	±5	2018/12/1
5750	Head	22.7	5.200	36.307	5.22	35.40	-0.38	2.56	±5	2018/12/1
750	Body	22.8	0.987	56.991	0.96	55.50	2.81	2.69	±5	2018/11/16
835	Body	22.7	0.995	55.432	0.97	55.20	2.58	0.42	±5	2018/11/17
1750	Body	22.7	1.444	54.472	1.49	53.40	-3.09	2.01	±5	2018/11/22
1900	Body	22.6	1.534	51.650	1.52	53.30	0.92	-3.10	±5	2018/11/21
2300	Body	22.9	1.791	54.740	1.81	52.90	-1.05	3.48	±5	2018/11/22
2450	Body	22.6	1.959	53.660	1.95	52.70	0.46	1.82	±5	2018/11/28
2600	Body	22.6	2.179	51.029	2.16	52.50	0.88	-2.80	±5	2018/11/23
5250	Body	22.8	5.519	47.829	5.36	48.90	2.97	-2.19	±5	2018/12/2
5600	Body	22.8	5.978	47.240	5.77	48.50	3.60	-2.60	±5	2018/12/2
5750	Body	22.8	6.188	46.946	5.94	48.30	4.18	-2.80	±5	2018/12/2

11.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2018/11/15	750	Head	250	1065	3293	1358	2.17	8.33	8.68	4.20
2018/11/18	835	Head	250	4d091	3293	1358	2.29	9.48	9.16	-3.38
2018/11/19	1750	Head	250	1069	3954	1210	9.79	37.00	39.16	5.84
2018/11/20	1900	Head	250	5d118	3954	1210	10.60	39.70	42.40	6.80
2018/11/19	2300	Head	250	1055	3954	1210	11.60	48.70	46.40	-4.72
2018/11/29	2450	Head	250	840	3843	1305	12.10	52.60	48.40	-7.98
2018/11/19	2600	Head	250	1061	3954	1210	14.20	58.20	56.80	-2.41
2018/12/1	5250	Head	100	1203	3857	1279	8.19	80.80	81.90	1.36
2018/12/1	5600	Head	100	1203	3857	1279	8.02	84.10	80.20	-4.64
2018/12/1	5750	Head	100	1203	3857	1279	8.20	80.50	82.00	1.86
2018/11/16	750	Body	250	1065	3954	1210	2.25	8.72	9.00	3.21
2018/11/17	835	Body	250	4d091	3954	1210	2.33	9.72	9.32	-4.12
2018/11/22	1750	Body	250	1069	3954	1210	9.01	38.00	36.04	-5.16
2018/11/21	1900	Body	250	5d118	3954	1210	9.60	40.40	38.40	-4.95
2018/11/22	2300	Body	250	1055	3954	1210	11.90	47.60	47.60	0.00
2018/11/28	2450	Body	250	840	3843	1305	12.90	51.90	51.60	-0.58
2018/11/23	2600	Body	250	1061	3954	1210	13.30	56.40	53.20	-5.67
2018/12/2	5250	Body	100	1203	3857	1279	7.15	77.50	71.50	-7.74
2018/12/2	5600	Body	100	1203	3857	1279	7.80	79.30	78.00	-1.64
2018/12/2	5750	Body	100	1203	3857	1279	7.88	76.80	78.80	2.60

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2018/11/22	1750	Body	250	1069	3954	1210	4.99	20.30	19.96	-1.67
2018/11/21	1900	Body	250	5d118	3954	1210	5.20	21.10	20.80	-1.42
2018/11/22	2300	Body	250	1055	3954	1210	6.00	22.60	24.00	6.19
2018/11/23	2600	Body	250	1061	3954	1210	6.06	25.00	24.24	-3.04
2018/12/2	5250	Body	100	1203	3857	1279	1.99	21.50	19.90	-7.44
2018/12/2	5600	Body	100	1203	3857	1279	2.15	22.10	21.50	-2.71

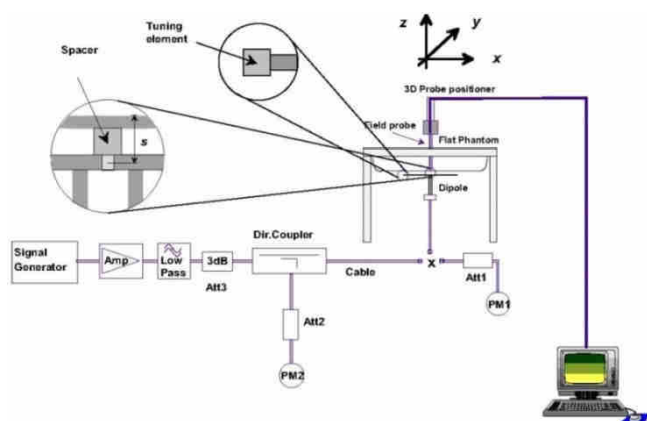


Fig 11.3.1 System Performance Check Setup

Fig 11.3.2 Setup Photo

12.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

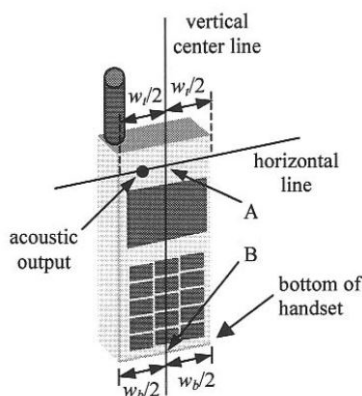


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

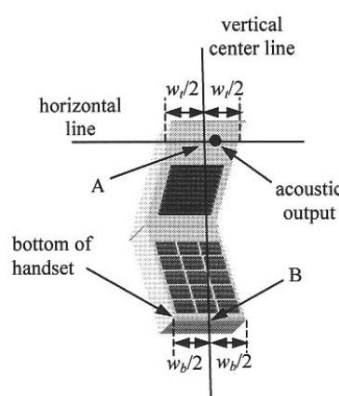


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

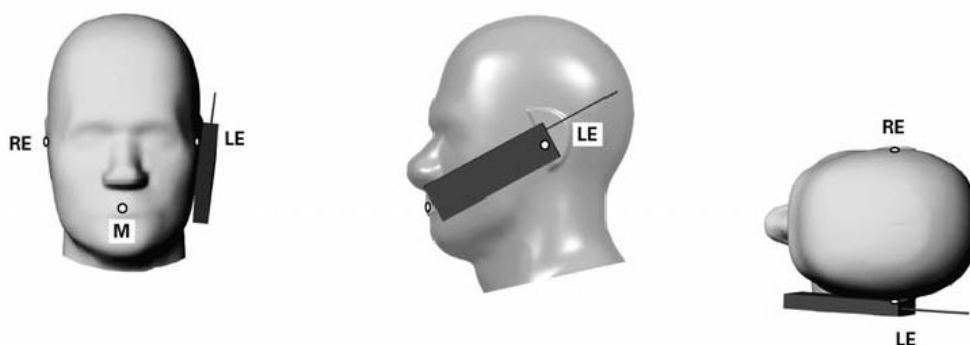


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

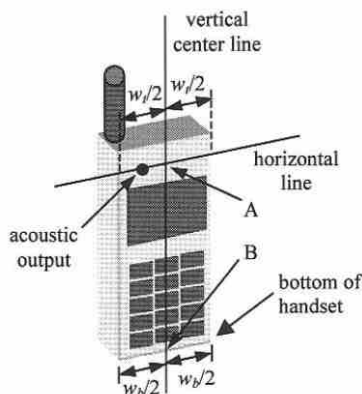


Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”

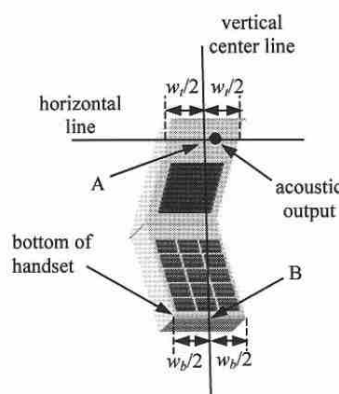


Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

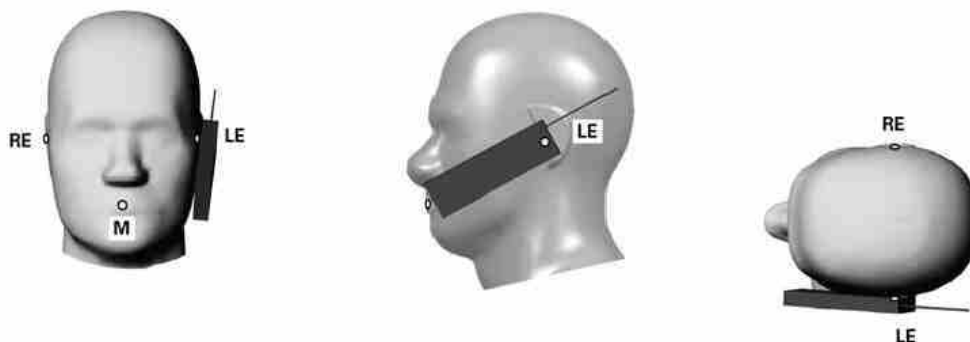


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15° .
3. Rotate the handset around the horizontal line by 15° .
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

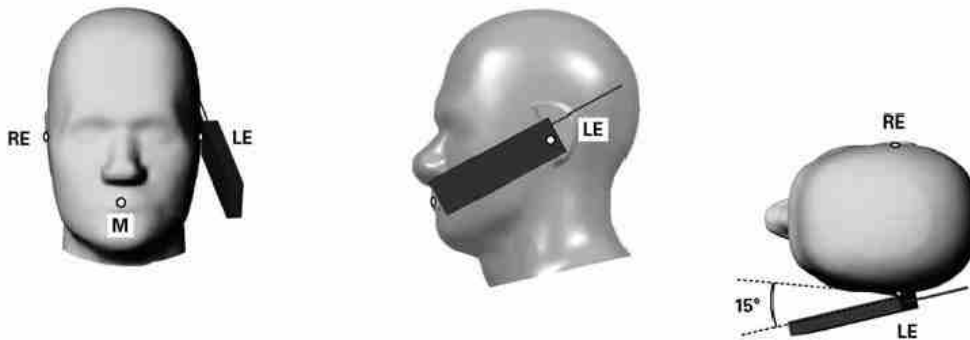


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters) only the accessory that dictates the closest spacing to the body is tested.

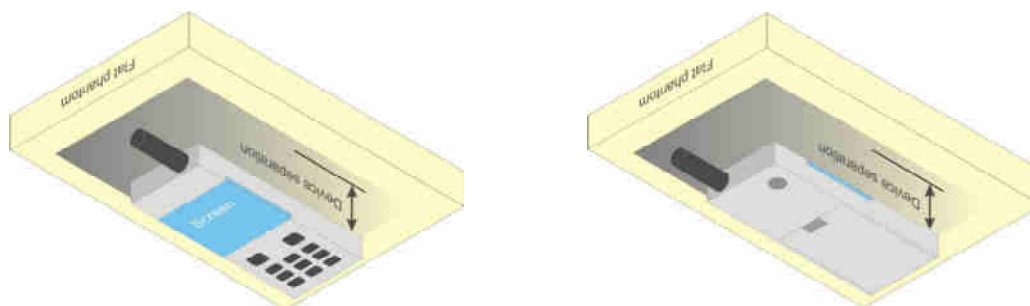


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

12.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

13. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 4Tx slots for GSM850/GSM1900 are considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.
4. Power reduction which is triggered by hotspot mode/p-sensor on/handheld on are implemented in GSM1900 band, for SAR testing EUT was set in reduced power mode and GPRS 4 Tx slots due to its highest frame-average power.

<Full Power Mode>

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.44	32.34	32.44	33.50	23.44	23.34	23.44	24.50
GPRS 1 Tx slot	32.42	32.32	32.42	33.50	23.42	23.32	23.42	24.50
GPRS 2 Tx slots	29.58	29.58	29.57	30.50	23.58	23.58	23.57	24.50
GPRS 3 Tx slots	27.53	27.48	27.52	28.75	23.27	23.22	23.26	24.49
GPRS 4 Tx slots	26.12	26.03	26.09	27.50	23.12	23.03	23.09	24.50
EDGE 1 Tx slot	26.24	26.21	26.18	28.00	17.24	17.21	17.18	19.00
EDGE 2 Tx slots	26.05	26.02	26.02	28.00	20.05	20.02	20.02	22.00
EDGE 3 Tx slots	24.42	24.35	24.29	26.25	20.16	20.09	20.03	21.99
EDGE 4 Tx slots	23.01	23.10	23.09	25.00	20.01	20.10	20.09	22.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.50	29.44	29.45	30.50	20.50	20.44	20.45	21.50
GPRS 1 Tx slot	29.48	29.44	29.45	30.50	20.48	20.44	20.45	21.50
GPRS 2 Tx slots	27.35	27.19	27.15	27.50	21.35	21.19	21.15	21.50
GPRS 3 Tx slots	25.44	25.32	25.25	25.75	21.18	21.06	20.99	21.49
GPRS 4 Tx slots	24.09	23.89	23.85	24.50	21.09	20.89	20.85	21.50
EDGE 1 Tx slot	25.63	25.48	25.44	26.00	16.63	16.48	16.44	17.00
EDGE 2 Tx slots	25.54	25.36	25.32	26.00	19.54	19.36	19.32	20.00
EDGE 3 Tx slots	24.15	23.95	23.87	24.25	19.89	19.69	19.61	19.99
EDGE 4 Tx slots	22.74	22.58	22.46	23.00	19.74	19.58	19.46	20.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

<Reduced Power Mode for P-Sensor On>

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.59	25.48	25.37	26.50	16.59	16.48	16.37	17.50
GPRS 1 Tx slot	25.58	25.46	25.36	26.50	16.58	16.46	16.36	17.50
GPRS 2 Tx slots	23.19	23.01	22.97	23.50	17.19	17.01	16.97	17.50
GPRS 3 Tx slots	21.24	21.05	21.02	21.75	16.98	16.79	16.76	17.49
GPRS 4 Tx slots	19.88	19.72	19.62	20.50	16.88	16.72	16.62	17.50
EDGE 1 Tx slot	21.95	21.94	21.79	22.00	12.95	12.94	12.79	13.00
EDGE 2 Tx slots	21.88	21.81	21.62	22.00	15.88	15.81	15.62	16.00
EDGE 3 Tx slots	19.91	19.85	19.73	20.25	15.65	15.59	15.47	15.99
EDGE 4 Tx slots	18.51	18.45	18.31	19.00	15.51	15.45	15.31	16.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

<Reduced Power Mode for Hotspot On>

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.53	23.43	23.29	24.50	14.53	14.43	14.29	15.50
GPRS 1 Tx slot	23.51	23.40	23.27	24.50	14.51	14.40	14.27	15.50
GPRS 2 Tx slots	21.08	20.91	20.98	21.50	15.08	14.91	14.98	15.50
GPRS 3 Tx slots	19.11	19.04	18.98	19.75	14.85	14.78	14.72	15.49
GPRS 4 Tx slots	17.86	17.61	17.50	18.50	14.86	14.61	14.50	15.50
EDGE 1 Tx slot	19.98	19.92	19.80	20.00	10.98	10.92	10.80	11.00
EDGE 2 Tx slots	19.83	19.71	19.63	20.00	13.83	13.71	13.63	14.00
EDGE 3 Tx slots	18.04	17.96	17.77	18.25	13.78	13.70	13.51	13.99
EDGE 4 Tx slots	16.99	16.98	16.90	17.00	13.99	13.98	13.90	14.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

<Reduced Power Mode for Handheld On>

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
Tx Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.66	28.47	28.45	29.50	19.66	19.47	19.45	20.50
GPRS 1 Tx slot	28.65	28.46	28.43	29.50	19.65	19.46	19.43	20.50
GPRS 2 Tx slots	26.23	26.09	26.04	26.50	20.23	20.09	20.04	20.50
GPRS 3 Tx slots	24.26	24.23	24.13	24.75	20.00	19.97	19.87	20.49
GPRS 4 Tx slots	22.88	22.71	22.57	23.50	19.88	19.71	19.57	20.50
EDGE 1 Tx slot	24.95	24.87	24.83	25.00	15.95	15.87	15.83	16.00
EDGE 2 Tx slots	24.88	24.73	24.65	25.00	18.88	18.73	18.65	19.00
EDGE 3 Tx slots	22.94	22.88	22.73	23.25	18.68	18.62	18.47	18.99
EDGE 4 Tx slots	21.52	21.43	21.35	22.00	18.52	18.43	18.35	19.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPCCH, DPDCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_{sf} (SF)	β_{sf}/β_d	β_{HS} (Note 1)	β_{bc}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -25 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - Select HSDPA Uplink Parameters
 - Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - Subtest 1: $\beta_c/\beta_d=2/15$
 - Subtest 2: $\beta_c/\beta_d=12/15$
 - Subtest 3: $\beta_c/\beta_d=15/8$
 - Subtest 4: $\beta_c/\beta_d=15/4$
 - Set Delta ACK, Delta NACK and Delta CQI = 8
 - Set Ack-Nack Repetition Factor to 3
 - Set CQI Feedback Cycle (k) to 4 ms
 - Set CQI Repetition Factor to 2
 - Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{inf})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

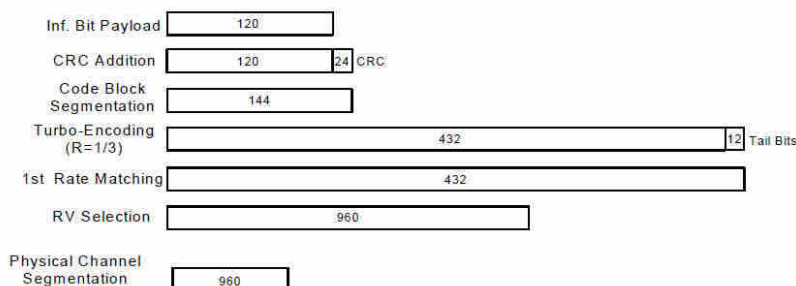


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<Full Power Mode>

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
Tx Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.02	22.92	22.82	24.00	22.35	22.48	22.68	24.00	23.20	23.06	23.24	24.00
3GPP Rel 99	RMC 12.2Kbps	23.03	22.94	22.83	24.00	22.35	22.50	22.69	24.00	23.21	23.08	23.26	24.00
3GPP Rel 6	HSDPA Subtest-1	22.96	22.78	22.60	23.50	22.25	22.29	22.50	23.50	22.99	22.92	23.07	23.50
3GPP Rel 6	HSDPA Subtest-2	22.98	22.78	22.60	23.50	22.29	22.30	22.50	23.50	23.01	22.91	23.07	23.50
3GPP Rel 6	HSDPA Subtest-3	22.95	22.79	22.60	23.50	22.29	22.32	22.51	23.50	22.91	22.81	23.08	23.50
3GPP Rel 6	HSDPA Subtest-4	22.93	22.77	22.61	23.50	22.29	22.31	22.51	23.50	22.92	22.82	23.05	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.89	22.71	22.58	23.50	22.15	22.24	22.48	23.50	22.89	22.89	23.01	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.91	22.76	22.61	23.50	22.26	22.26	22.41	23.50	22.90	22.91	23.05	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.83	22.69	22.53	23.50	22.28	22.31	22.50	23.50	23.01	22.78	23.05	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.92	22.75	22.65	23.50	22.26	22.25	22.48	23.50	22.89	22.85	23.01	23.50
3GPP Rel 6	HSUPA Subtest-1	21.96	21.84	21.62	23.50	21.55	21.56	21.78	23.50	21.89	21.79	22.08	23.50
3GPP Rel 6	HSUPA Subtest-2	19.93	19.78	19.62	21.50	19.59	19.68	19.77	21.50	19.89	19.84	20.07	21.50
3GPP Rel 6	HSUPA Subtest-3	20.95	20.80	20.64	22.50	20.59	20.67	20.80	22.50	20.93	20.78	21.06	22.50
3GPP Rel 6	HSUPA Subtest-4	19.93	19.75	19.65	21.50	19.57	19.67	19.79	21.50	19.94	19.80	20.09	21.50
3GPP Rel 6	HSUPA Subtest-5	22.00	21.80	21.60	23.50	21.50	21.60	21.80	23.50	22.00	21.80	22.10	23.50



<Reduced Power Mode for P-Sensor On>

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
Tx Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.55	17.42	17.25	18.50	15.78	15.87	16.02	17.50	22.15	22.07	22.34	23.00
3GPP Rel 99	RMC 12.2Kbps	17.79	17.74	17.62	18.50	15.79	15.88	16.15	17.50	22.17	22.08	22.35	23.00
3GPP Rel 6	HSDPA Subtest-1	16.58	16.36	16.10	17.50	14.71	14.79	14.86	16.00	20.95	20.92	21.08	22.00
3GPP Rel 6	HSDPA Subtest-2	16.51	16.34	16.09	17.50	14.70	14.79	14.85	16.00	20.96	20.98	21.06	22.00
3GPP Rel 6	HSDPA Subtest-3	16.09	15.84	15.59	17.00	14.22	14.31	14.35	15.50	20.53	20.46	20.53	21.50
3GPP Rel 6	HSDPA Subtest-4	16.08	15.83	15.62	17.00	14.22	14.30	14.35	15.50	20.50	20.41	20.55	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.51	16.28	16.13	17.50	14.68	14.72	14.78	16.00	20.89	20.88	21.05	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.53	16.29	16.21	17.50	14.75	14.75	14.81	16.00	20.91	20.81	21.03	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.04	15.85	15.63	17.00	14.25	14.38	14.35	15.50	20.48	20.35	20.52	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.09	15.81	15.63	17.00	14.21	14.28	14.21	15.50	20.38	20.45	20.48	21.50
3GPP Rel 6	HSUPA Subtest-1	16.58	16.37	16.14	17.50	15.12	14.95	15.13	16.00	21.04	20.98	21.19	22.00
3GPP Rel 6	HSUPA Subtest-2	14.61	14.39	14.13	15.50	12.75	12.63	12.86	14.00	19.03	18.95	18.97	20.00
3GPP Rel 6	HSUPA Subtest-3	15.58	15.39	15.15	16.50	13.26	13.50	13.65	15.00	20.06	19.99	20.07	21.00
3GPP Rel 6	HSUPA Subtest-4	14.59	14.39	14.17	15.50	12.71	12.72	12.88	14.00	19.02	18.94	19.10	20.00
3GPP Rel 6	HSUPA Subtest-5	16.60	16.40	16.20	17.50	14.80	14.70	14.90	16.00	21.00	21.00	21.10	22.00

<Reduced Power Mode for Hotspot On>

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
Tx Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	15.81	15.76	15.51	16.50	14.23	14.39	14.50	16.00	22.15	22.07	22.34	23.00
3GPP Rel 99	RMC 12.2Kbps	15.82	15.78	15.52	16.50	14.25	14.40	14.51	16.00	22.17	22.08	22.35	23.00
3GPP Rel 6	HSDPA Subtest-1	14.59	14.37	14.17	15.50	13.22	13.28	13.37	15.00	20.95	20.92	21.08	22.00
3GPP Rel 6	HSDPA Subtest-2	14.57	14.40	14.16	15.50	13.22	13.27	13.36	15.00	20.96	20.98	21.06	22.00
3GPP Rel 6	HSDPA Subtest-3	14.06	13.87	13.66	15.00	12.69	12.78	12.86	14.50	20.53	20.46	20.53	21.50
3GPP Rel 6	HSDPA Subtest-4	14.05	13.89	13.66	15.00	12.71	12.73	12.85	14.50	20.50	20.41	20.55	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	14.38	14.38	14.18	15.50	13.21	13.25	13.25	15.00	20.89	20.88	21.05	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	14.45	14.39	14.23	15.50	13.29	13.29	13.18	15.00	20.91	20.81	21.03	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	14.01	13.81	13.69	15.00	12.81	12.81	12.89	14.50	20.48	20.35	20.52	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	14.03	13.95	13.68	15.00	12.73	12.65	12.79	14.50	20.38	20.45	20.48	21.50
3GPP Rel 6	HSUPA Subtest-1	13.68	13.59	13.60	15.50	13.50	13.23	13.50	15.00	21.04	20.98	21.19	22.00
3GPP Rel 6	HSUPA Subtest-2	12.57	12.37	12.20	13.50	12.85	12.61	12.54	13.00	19.03	18.95	18.97	20.00
3GPP Rel 6	HSUPA Subtest-3	13.86	13.40	13.40	14.50	13.25	13.64	13.74	14.00	20.06	19.99	20.07	21.00
3GPP Rel 6	HSUPA Subtest-4	12.56	12.39	12.15	13.50	12.84	12.63	12.49	13.00	19.02	18.94	19.10	20.00
3GPP Rel 6	HSUPA Subtest-5	14.60	14.40	14.20	15.50	13.80	13.70	13.60	15.00	21.00	21.00	21.10	22.00

<Reduced Power Mode for Handheld On>

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
Tx Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.26	20.21	19.90	20.50	18.34	18.36	18.52	19.50
3GPP Rel 99	RMC 12.2Kbps	20.28	20.23	19.92	20.50	18.35	18.38	18.54	19.50
3GPP Rel 6	HSDPA Subtest-1	19.04	18.90	18.62	20.00	17.20	17.28	17.38	19.00
3GPP Rel 6	HSDPA Subtest-2	19.07	18.88	18.61	20.00	17.20	17.29	17.41	19.00
3GPP Rel 6	HSDPA Subtest-3	18.55	18.39	18.11	19.50	16.69	16.78	16.85	18.50
3GPP Rel 6	HSDPA Subtest-4	18.53	18.38	18.10	19.50	16.69	16.77	16.87	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.01	18.92	18.61	20.00	17.18	17.29	17.28	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.13	18.95	18.58	20.00	17.15	17.25	17.35	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.62	18.51	18.15	19.50	16.72	16.71	16.92	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.58	18.48	18.23	19.50	16.71	16.73	16.87	18.50
3GPP Rel 6	HSUPA Subtest-1	19.11	18.92	18.67	20.00	17.19	17.16	17.37	19.00
3GPP Rel 6	HSUPA Subtest-2	17.09	16.87	16.65	18.00	15.16	15.16	15.34	17.00
3GPP Rel 6	HSUPA Subtest-3	18.06	17.85	17.70	19.00	16.20	16.14	16.35	18.00
3GPP Rel 6	HSUPA Subtest-4	17.12	16.89	16.70	18.00	15.22	15.16	15.35	17.00
3GPP Rel 6	HSUPA Subtest-5	19.10	18.90	18.70	20.00	17.20	17.20	17.40	19.00

<CDMA2000 Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

<Full Power Mode>

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)	CDMA2000 BC10			Tune-up Limit (dBm)
Tx Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	24.44	24.42	24.41	25.00	24.33	24.11	24.11	25.00	24.41	24.62	24.51	25.00
RC3 SO55	24.47	24.44	24.44	25.00	24.36	24.13	24.12	25.00	24.45	24.67	24.52	25.00
RC3 SO32 (F+SCH)	24.56	24.43	24.50	25.00	24.41	24.14	24.14	25.00	24.47	24.65	24.54	25.00
RC3 SO32 (+SCH)	24.52	24.50	24.43	25.00	24.40	24.16	24.15	25.00	24.48	24.66	24.55	25.00
RTAP 153.6Kbps	24.48	24.44	24.42	25.00	24.37	24.11	24.13	25.00	24.46	24.65	24.53	25.00
RETAP 4096Bits	24.12	24.10	24.00	25.00	24.03	23.79	23.78	25.00	24.11	24.30	24.18	25.00

<Reduced Power Mode for P-Sensor On>

Band	CDMA2000 BC1			Tune-up Limit (dBm)
Tx Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	18.69	18.53	18.51	19.00
RC3 SO55	18.72	18.53	18.54	19.00
RC3 SO32 (F+SCH)	18.69	18.52	18.53	19.00
RC3 SO32 (+SCH)	18.56	18.54	18.53	19.00
RTAP 153.6Kbps	18.55	18.54	18.53	19.00
RETAP 4096Bits	18.55	18.53	18.52	19.00

<Reduced Power Mode for Hotspot On>

Band	CDMA2000 BC1			Tune-up Limit (dBm)
Tx Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	16.70	16.51	16.47	17.50
RC3 SO55	16.68	16.49	16.48	17.50
RC3 SO32 (F+SCH)	16.68	16.51	16.48	17.50
RC3 SO32 (+SCH)	16.71	16.50	16.46	17.50
RTAP 153.6Kbps	16.69	16.51	16.47	17.50
RETAP 4096Bits	16.67	16.48	16.49	17.50

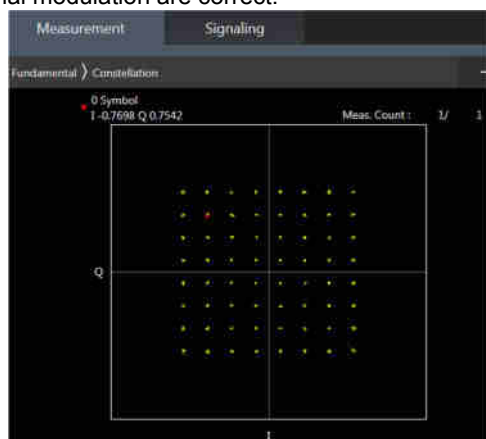
<Reduced Power Mode for Handheld On>

Band	CDMA2000 BC1			Tune-up Limit (dBm)
Tx Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	21.71	21.52	21.50	22.00
RC3 SO55	21.67	21.50	21.52	22.00
RC3 SO32 (F+SCH)	21.71	21.51	21.50	22.00
RC3 SO32 (+SCH)	21.70	21.54	21.48	22.00
RTAP 153.6Kbps	21.73	21.54	21.51	22.00
RETAP 4096Bits	21.73	21.55	21.54	22.00

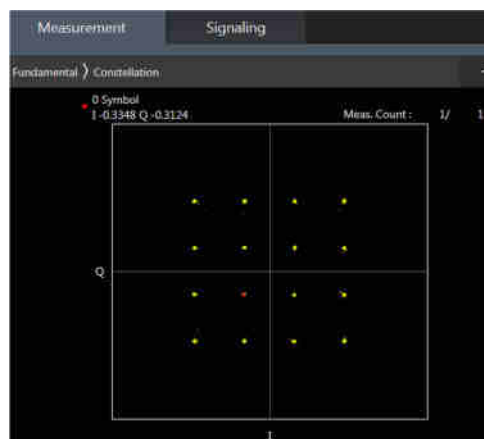
<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B17 / B2 / B5 / B38 / B4 SAR test was covered by B12 / B25 / B26 / B41 / B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

<Full Power Mode>

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.40	22.46	22.44	24	0
20	QPSK	1	49	22.52	22.43	22.48		
20	QPSK	1	99	22.19	22.07	22.05		
20	QPSK	50	0	21.71	21.82	21.71	23	1
20	QPSK	50	24	21.80	21.79	21.77		
20	QPSK	50	50	21.54	21.63	21.58		
20	QPSK	100	0	21.67	21.73	21.69		
20	16QAM	1	0	21.99	21.99	22.05	23	1
20	16QAM	1	49	22.06	22.14	22.12		
20	16QAM	1	99	21.41	21.60	21.61		
20	16QAM	50	0	20.75	20.81	20.75	22	2
20	16QAM	50	24	20.84	20.79	20.77		
20	16QAM	50	50	20.57	20.59	20.54		
20	16QAM	100	0	20.57	20.65	20.62		
20	64QAM	1	0	20.84	20.83	20.87	22	2
20	64QAM	1	49	20.83	20.91	20.99		
20	64QAM	1	99	20.29	20.44	20.52		
20	64QAM	50	0	19.71	19.80	19.74	21	3
20	64QAM	50	24	19.78	19.76	19.76		
20	64QAM	50	50	19.56	19.58	19.54		
20	64QAM	100	0	19.58	19.66	19.61		



FCC SAR Test Report

Report No. : FA892801

Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.51	22.40	22.44	24	0
15	QPSK	1	37	22.08	22.09	22.19		
15	QPSK	1	74	22.36	22.41	22.45		
15	QPSK	36	0	21.20	21.26	21.40	23	1
15	QPSK	36	20	21.18	21.19	21.39		
15	QPSK	36	39	21.07	21.20	21.35		
15	QPSK	75	0	21.17	21.21	21.38	23	1
15	16QAM	1	0	21.97	21.92	21.87		
15	16QAM	1	37	21.39	21.62	21.63		
15	16QAM	1	74	21.82	21.89	21.93	22	2
15	16QAM	36	0	20.26	20.26	20.41		
15	16QAM	36	20	20.22	20.23	20.43		
15	16QAM	36	39	20.13	20.20	20.33	22	2
15	16QAM	75	0	20.20	20.25	20.41		
15	64QAM	1	0	20.78	20.71	20.90		
15	64QAM	1	37	20.85	20.83	20.95	22	2
15	64QAM	1	74	20.60	20.88	20.96		
15	64QAM	36	0	19.20	19.25	19.43		
15	64QAM	36	20	19.14	19.24	19.44	21	3
15	64QAM	36	39	19.10	19.19	19.37		
15	64QAM	75	0	19.14	19.25	19.43		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.17	22.34	22.41	24	0
10	QPSK	1	25	22.26	22.20	22.10		
10	QPSK	1	49	22.15	22.17	22.28		
10	QPSK	25	0	21.15	21.23	21.31	23	1
10	QPSK	25	12	21.11	21.18	21.22		
10	QPSK	25	25	21.16	21.27	21.33		
10	QPSK	50	0	21.16	21.22	21.22	23	1
10	16QAM	1	0	21.69	21.69	21.84		
10	16QAM	1	25	21.62	21.64	21.70		
10	16QAM	1	49	21.68	21.69	21.80	22	2
10	16QAM	25	0	20.09	20.15	20.27		
10	16QAM	25	12	20.08	20.15	20.21		
10	16QAM	25	25	20.05	20.20	20.27	22	2
10	16QAM	50	0	20.03	20.11	20.18		
10	64QAM	1	0	20.86	20.91	21.06		
10	64QAM	1	25	20.81	20.83	20.82	21	3
10	64QAM	1	49	20.77	20.94	21.10		
10	64QAM	25	0	19.52	19.61	19.76		
10	64QAM	25	12	19.53	19.59	19.69	21	3
10	64QAM	25	25	19.51	19.64	19.75		
10	64QAM	50	0	19.41	19.54	19.62		



FCC SAR Test Report

Report No. : FA892801

Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.43	22.51	22.48	24	0
5	QPSK	1	12	22.13	22.19	22.05		
5	QPSK	1	24	22.28	22.40	22.35		
5	QPSK	12	0	21.45	21.52	21.63	23	1
5	QPSK	12	7	21.38	21.41	21.61		
5	QPSK	12	13	21.34	21.38	21.61		
5	QPSK	25	0	21.36	21.45	21.46	23	1
5	16QAM	1	0	21.61	21.70	21.67		
5	16QAM	1	12	21.33	21.54	21.62		
5	16QAM	1	24	21.48	21.65	21.54	22	2
5	16QAM	12	0	20.50	20.56	20.58		
5	16QAM	12	7	20.43	20.52	20.53		
5	16QAM	12	13	20.44	20.52	20.49	22	2
5	16QAM	25	0	20.31	20.36	20.55		
5	64QAM	1	0	20.71	20.87	21.29		
5	64QAM	1	12	20.76	20.90	21.27	22	2
5	64QAM	1	24	20.60	20.83	21.20		
5	64QAM	12	0	19.56	19.72	19.77		
5	64QAM	12	7	19.58	19.68	19.69	21	3
5	64QAM	12	13	19.60	19.66	19.68		
5	64QAM	25	0	19.57	19.68	19.68		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.05	22.40	22.47	24	0
3	QPSK	1	8	22.19	22.37	22.44		
3	QPSK	1	14	22.42	22.27	22.38		
3	QPSK	8	0	21.36	21.38	21.47	23	1
3	QPSK	8	4	21.35	21.37	21.53		
3	QPSK	8	7	21.31	21.32	21.46		
3	QPSK	15	0	21.34	21.38	21.52	23	1
3	16QAM	1	0	21.24	21.48	21.59		
3	16QAM	1	8	21.28	21.41	21.54		
3	16QAM	1	14	21.17	21.26	21.45	22	2
3	16QAM	8	0	20.38	20.58	20.73		
3	16QAM	8	4	20.39	20.50	20.66		
3	16QAM	8	7	20.37	20.56	20.72	22	2
3	16QAM	15	0	20.21	20.34	20.48		
3	64QAM	1	0	20.61	20.71	20.82		
3	64QAM	1	8	20.62	20.67	20.74	21	3
3	64QAM	1	14	20.54	20.57	20.81		
3	64QAM	8	0	19.48	19.51	19.58		
3	64QAM	8	4	19.48	19.48	19.65	21	3
3	64QAM	8	7	19.41	19.44	19.62		
3	64QAM	15	0	19.39	19.56	19.72		



FCC SAR Test Report

Report No. : FA892801

Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.05	22.15	22.13	24	0
1.4	QPSK	1	3	22.01	22.24	22.22		
1.4	QPSK	1	5	22.24	22.08	22.17		
1.4	QPSK	3	0	22.13	22.33	22.39		
1.4	QPSK	3	1	22.28	22.40	22.42		
1.4	QPSK	3	3	22.15	22.30	22.36		
1.4	QPSK	6	0	21.27	21.37	21.45	23	1
1.4	16QAM	1	0	21.74	21.42	21.48	23	1
1.4	16QAM	1	3	21.84	21.41	21.50		
1.4	16QAM	1	5	21.78	21.34	21.45		
1.4	16QAM	3	0	21.42	21.52	21.70		
1.4	16QAM	3	1	21.51	21.61	21.77		
1.4	16QAM	3	3	21.38	21.52	21.69		
1.4	16QAM	6	0	20.21	20.32	20.43	22	2
1.4	64QAM	1	0	20.82	20.64	20.75	22	2
1.4	64QAM	1	3	21.01	20.74	20.84		
1.4	64QAM	1	5	20.89	20.59	20.76		
1.4	64QAM	3	0	20.59	20.67	20.77		
1.4	64QAM	3	1	20.53	20.72	20.85		
1.4	64QAM	3	3	20.54	20.56	20.73		
1.4	64QAM	6	0	19.38	19.54	19.73	21	3



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.35	22.12	22.05		
20	QPSK	1	49	22.28	22.25	22.53	24	0
20	QPSK	1	99	22.10	22.02	22.01		
20	QPSK	50	0	21.51	21.58	21.61		
20	QPSK	50	24	21.62	21.66	21.79	23	1
20	QPSK	50	50	21.46	21.53	21.61		
20	QPSK	100	0	21.46	21.74	21.65		
20	16QAM	1	0	21.58	21.65	21.61	23	1
20	16QAM	1	49	21.94	21.88	22.07		
20	16QAM	1	99	21.63	21.56	21.76		
20	16QAM	50	0	20.52	20.56	20.57	22	2
20	16QAM	50	24	20.61	20.69	20.74		
20	16QAM	50	50	20.44	20.52	20.57		
20	16QAM	100	0	20.58	20.53	20.61	22	2
20	64QAM	1	0	20.81	20.84	20.88		
20	64QAM	1	49	20.88	20.92	21.13		
20	64QAM	1	99	20.93	20.78	21.08	21	3
20	64QAM	50	0	19.95	19.93	20.00		
20	64QAM	50	24	20.02	20.07	20.14		
20	64QAM	50	50	19.83	19.94	19.98	21	3
20	64QAM	100	0	20.00	19.96	19.98		



FCC SAR Test Report

Report No. : FA892801

Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.49	22.29	22.19	24	0
15	QPSK	1	37	22.28	22.05	22.01		
15	QPSK	1	74	22.18	22.09	22.15		
15	QPSK	36	0	21.36	21.25	21.15	23	1
15	QPSK	36	20	21.36	21.15	21.14		
15	QPSK	36	39	21.18	21.11	21.18		
15	QPSK	75	0	21.30	21.14	21.09	23	1
15	16QAM	1	0	21.66	21.71	21.52		
15	16QAM	1	37	21.43	21.11	21.34		
15	16QAM	1	74	21.66	21.36	21.66	22	2
15	16QAM	36	0	20.36	20.25	20.17		
15	16QAM	36	20	20.38	20.16	20.16		
15	16QAM	36	39	20.27	20.09	20.19	22	2
15	16QAM	75	0	20.32	20.24	20.13		
15	64QAM	1	0	20.87	20.82	20.70		
15	64QAM	1	37	20.98	20.69	20.86	22	2
15	64QAM	1	74	20.71	20.52	20.82		
15	64QAM	36	0	19.61	19.55	19.50		
15	64QAM	36	20	19.62	19.43	19.51	21	3
15	64QAM	36	39	19.54	19.35	19.50		
15	64QAM	75	0	19.61	19.52	19.45		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.71	22.49	22.44	24	0
10	QPSK	1	25	22.15	22.21	22.20		
10	QPSK	1	49	22.57	22.35	22.60		
10	QPSK	25	0	21.33	21.20	21.25	23	1
10	QPSK	25	12	21.28	21.24	21.18		
10	QPSK	25	25	21.30	21.32	21.25		
10	QPSK	50	0	21.31	21.24	21.22	23	1
10	16QAM	1	0	21.80	21.83	21.74		
10	16QAM	1	25	21.49	21.38	21.54		
10	16QAM	1	49	21.91	21.78	21.95	22	2
10	16QAM	25	0	20.29	20.13	20.19		
10	16QAM	25	12	20.21	20.14	20.11		
10	16QAM	25	25	20.30	20.23	20.13	22	2
10	16QAM	50	0	20.31	20.25	20.16		
10	64QAM	1	0	21.17	21.16	21.14		
10	64QAM	1	25	20.72	20.76	20.91	22	2
10	64QAM	1	49	21.26	21.17	21.40		
10	64QAM	25	0	19.80	19.71	19.77		
10	64QAM	25	12	19.75	19.70	19.72	21	3
10	64QAM	25	25	19.83	19.81	19.79		
10	64QAM	50	0	19.80	19.75	19.69		



FCC SAR Test Report

Report No. : FA892801

Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	22.62	22.46	22.45	24	0
5	QPSK	1	12	22.46	22.36	22.11		
5	QPSK	1	24	22.47	22.34	22.37		
5	QPSK	12	0	21.44	21.37	21.45	23	1
5	QPSK	12	7	21.44	21.35	21.33		
5	QPSK	12	13	21.44	21.30	21.32		
5	QPSK	25	0	21.48	21.42	21.35	23	1
5	16QAM	1	0	21.91	21.79	21.63		
5	16QAM	1	12	21.57	21.47	21.37		
5	16QAM	1	24	21.69	21.61	21.49	22	2
5	16QAM	12	0	20.53	20.47	20.50		
5	16QAM	12	7	20.52	20.47	20.39		
5	16QAM	12	13	20.52	20.37	20.45	22	2
5	16QAM	25	0	20.50	20.39	20.27		
5	64QAM	1	0	21.03	20.89	20.87		
5	64QAM	1	12	20.76	20.63	20.71	22	2
5	64QAM	1	24	20.82	20.75	20.77		
5	64QAM	12	0	19.77	19.76	19.80		
5	64QAM	12	7	19.75	19.77	19.69	21	3
5	64QAM	12	13	19.80	19.64	19.74		
5	64QAM	25	0	19.75	19.74	19.69		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.54	22.31	22.29	24	0
3	QPSK	1	8	22.48	22.37	22.30		
3	QPSK	1	14	22.44	22.33	22.30		
3	QPSK	8	0	21.53	21.42	21.36	23	1
3	QPSK	8	4	21.45	21.38	21.29		
3	QPSK	8	7	21.44	21.33	21.31		
3	QPSK	15	0	21.39	21.37	21.31	23	1
3	16QAM	1	0	21.69	21.79	21.50		
3	16QAM	1	8	21.68	21.81	21.42		
3	16QAM	1	14	21.68	21.69	21.34	22	2
3	16QAM	8	0	20.52	20.56	20.52		
3	16QAM	8	4	20.49	20.47	20.47		
3	16QAM	8	7	20.50	20.39	20.56	22	2
3	16QAM	15	0	20.42	20.40	20.32		
3	64QAM	1	0	21.23	20.72	20.73		
3	64QAM	1	8	21.10	20.76	20.73	22	2
3	64QAM	1	14	20.93	20.76	20.68		
3	64QAM	8	0	19.80	19.69	19.67		
3	64QAM	8	4	19.75	19.71	19.64	21	3
3	64QAM	8	7	19.70	19.60	19.63		
3	64QAM	15	0	19.66	19.74	19.63		

Sporton International (Kunshan) Inc.

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Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.58	22.29	22.03	24	0
1.4	QPSK	1	3	22.49	22.39	22.21		
1.4	QPSK	1	5	22.55	22.29	22.10		
1.4	QPSK	3	0	22.62	22.31	22.27		
1.4	QPSK	3	1	22.54	22.38	22.43		
1.4	QPSK	3	3	22.56	22.28	22.34		
1.4	QPSK	6	0	21.42	21.30	21.28	23	1
1.4	16QAM	1	0	21.69	21.70	21.40	23	1
1.4	16QAM	1	3	21.70	21.82	21.45		
1.4	16QAM	1	5	21.67	21.68	21.31		
1.4	16QAM	3	0	21.43	21.44	21.46		
1.4	16QAM	3	1	21.48	21.45	21.60		
1.4	16QAM	3	3	21.43	21.37	21.43		
1.4	16QAM	6	0	20.59	20.31	20.35	22	2
1.4	64QAM	1	0	20.84	20.66	20.63	22	2
1.4	64QAM	1	3	20.87	20.70	20.72		
1.4	64QAM	1	5	20.85	20.65	20.60		
1.4	64QAM	3	0	20.75	20.76	20.76		
1.4	64QAM	3	1	20.76	20.77	20.81		
1.4	64QAM	3	3	20.76	20.67	20.78		
1.4	64QAM	6	0	19.75	19.60	19.71	21	3



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.98	22.70	22.75		
10	QPSK	1	25	22.72	22.62	22.55	24	0
10	QPSK	1	49	22.89	22.94	22.92		
10	QPSK	25	0	21.90	21.83	21.89		
10	QPSK	25	12	21.99	21.88	21.76	23	1
10	QPSK	25	25	21.97	21.86	21.81		
10	QPSK	50	0	21.95	21.86	21.91		
10	16QAM	1	0	22.24	22.21	22.21	23	1
10	16QAM	1	25	21.99	22.23	22.00		
10	16QAM	1	49	22.25	22.38	22.28		
10	16QAM	25	0	20.84	20.82	20.91	22	2
10	16QAM	25	12	20.98	20.88	20.88		
10	16QAM	25	25	20.94	20.85	20.80		
10	16QAM	50	0	21.01	20.85	20.84	22	2
10	64QAM	1	0	21.06	21.00	20.95		
10	64QAM	1	25	20.85	20.92	20.79		
10	64QAM	1	49	21.17	21.18	21.08	21	3
10	64QAM	25	0	19.74	19.71	19.83		
10	64QAM	25	12	19.81	19.77	19.76		
10	64QAM	25	25	19.83	19.81	19.72	21	3
10	64QAM	50	0	19.82	19.70	19.84		



FCC SAR Test Report

Report No. : FA892801

Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.95	22.90	22.71	24	0
5	QPSK	1	12	22.99	22.71	22.66		
5	QPSK	1	24	22.88	22.83	22.69		
5	QPSK	12	0	21.93	21.87	21.74	23	1
5	QPSK	12	7	21.86	21.81	21.70		
5	QPSK	12	13	21.89	21.77	21.63		
5	QPSK	25	0	21.94	21.82	21.72	23	1
5	16QAM	1	0	22.26	22.11	21.93		
5	16QAM	1	12	22.10	21.90	21.89		
5	16QAM	1	24	22.16	22.05	21.94	22	2
5	16QAM	12	0	20.95	20.91	20.81		
5	16QAM	12	7	20.92	20.85	20.74		
5	16QAM	12	13	20.92	20.84	20.78	22	2
5	16QAM	25	0	20.91	20.77	20.69		
5	64QAM	1	0	21.07	20.90	20.67	22	2
5	64QAM	1	12	20.93	20.79	20.72		
5	64QAM	1	24	20.99	20.86	20.68		
5	64QAM	12	0	19.96	19.83	19.71	21	3
5	64QAM	12	7	19.92	19.79	19.66		
5	64QAM	12	13	19.92	19.78	19.60		
5	64QAM	25	0	19.92	19.76	19.70	21	3
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	22.91	22.79	22.63		
3	QPSK	1	8	22.85	22.78	22.65	24	0
3	QPSK	1	14	22.81	22.72	22.58		
3	QPSK	8	0	21.92	21.78	21.64	23	1
3	QPSK	8	4	21.89	21.76	21.66		
3	QPSK	8	7	21.93	21.71	21.65		
3	QPSK	15	0	21.87	21.78	21.64	23	1
3	16QAM	1	0	22.45	22.07	21.94		
3	16QAM	1	8	22.47	21.98	21.96		
3	16QAM	1	14	22.44	21.91	21.95	22	2
3	16QAM	8	0	20.95	20.92	20.76		
3	16QAM	8	4	20.95	20.90	20.80		
3	16QAM	8	7	20.88	20.86	20.71	22	2
3	16QAM	15	0	20.90	20.82	20.65		
3	64QAM	1	0	21.04	20.85	20.72		
3	64QAM	1	8	21.03	20.84	20.72	22	2
3	64QAM	1	14	21.02	20.73	20.67		
3	64QAM	8	0	20.02	19.72	19.57		
3	64QAM	8	4	19.93	19.74	19.58	21	3
3	64QAM	8	7	19.97	19.68	19.58		
3	64QAM	15	0	19.90	19.75	19.60		



FCC SAR Test Report

Report No. : FA892801

Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.08	22.66	22.54	24	0
1.4	QPSK	1	3	23.22	22.64	22.61		
1.4	QPSK	1	5	23.13	22.62	22.54		
1.4	QPSK	3	0	23.01	22.71	22.56		
1.4	QPSK	3	1	23.12	22.78	22.63		
1.4	QPSK	3	3	23.12	22.76	22.57		
1.4	QPSK	6	0	22.14	21.74	21.61	23	1
1.4	16QAM	1	0	21.72	21.97	21.95	23	1
1.4	16QAM	1	3	21.76	21.98	22.02		
1.4	16QAM	1	5	21.64	21.93	21.94		
1.4	16QAM	3	0	22.00	21.88	21.66		
1.4	16QAM	3	1	22.20	21.93	21.74		
1.4	16QAM	3	3	22.08	21.83	21.64		
1.4	16QAM	6	0	21.16	20.77	20.66	22	2
1.4	64QAM	1	0	21.22	20.80	20.68	22	2
1.4	64QAM	1	3	21.31	20.86	20.66		
1.4	64QAM	1	5	21.22	20.73	20.66		
1.4	64QAM	3	0	21.11	20.76	20.57		
1.4	64QAM	3	1	21.18	20.84	20.60		
1.4	64QAM	3	3	21.16	20.72	20.60		
1.4	64QAM	6	0	20.10	19.75	19.51	21	3



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.30	23.21	23.26		
20	QPSK	1	49	23.62	23.54	23.67	24	0
20	QPSK	1	99	23.52	23.34	23.44		
20	QPSK	50	0	22.37	22.17	22.30		
20	QPSK	50	24	22.37	22.27	22.40	23	1
20	QPSK	50	50	22.34	22.22	22.34		
20	QPSK	100	0	22.28	22.25	22.30		
20	16QAM	1	0	22.49	22.41	22.44	23	1
20	16QAM	1	49	22.59	22.52	22.73		
20	16QAM	1	99	22.54	22.35	22.55		
20	16QAM	50	0	20.88	20.70	20.72	22	2
20	16QAM	50	24	20.89	20.80	20.86		
20	16QAM	50	50	20.78	20.76	20.79		
20	16QAM	100	0	20.89	20.72	20.79	22	2
20	64QAM	1	0	21.27	21.13	21.15		
20	64QAM	1	49	21.07	21.16	21.16		
20	64QAM	1	99	21.31	21.11	21.30	21	3
20	64QAM	50	0	19.77	19.58	19.61		
20	64QAM	50	24	19.77	19.68	19.75		
20	64QAM	50	50	19.72	19.65	19.67	21	3
20	64QAM	100	0	19.79	19.62	19.68		



FCC SAR Test Report

Report No. : FA892801

Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.31	23.32	23.48	24	0
15	QPSK	1	37	23.40	23.32	23.51		
15	QPSK	1	74	23.52	23.50	23.59		
15	QPSK	36	0	22.45	22.49	22.56	23	1
15	QPSK	36	20	22.53	22.41	22.62		
15	QPSK	36	39	22.45	22.50	22.65		
15	QPSK	75	0	22.47	22.44	22.64	23	1
15	16QAM	1	0	22.74	22.68	22.92		
15	16QAM	1	37	22.61	22.52	22.70		
15	16QAM	1	74	22.79	22.75	22.88	22	2
15	16QAM	36	0	21.42	21.49	21.54		
15	16QAM	36	20	21.52	21.42	21.62		
15	16QAM	36	39	21.45	21.41	21.65	22	2
15	16QAM	75	0	21.47	21.46	21.62		
15	64QAM	1	0	21.10	21.04	21.29		
15	64QAM	1	37	21.13	20.99	21.37	22	2
15	64QAM	1	74	21.14	21.12	21.29		
15	64QAM	36	0	19.92	19.92	20.09	21	3
15	64QAM	36	20	20.00	19.92	20.12		
15	64QAM	36	39	19.96	19.92	20.14		
15	64QAM	75	0	19.98	19.93	20.14	20800	21400
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.55	23.56	23.50		
10	QPSK	1	25	23.35	23.35	23.57	24	0
10	QPSK	1	49	23.61	23.53	23.45		
10	QPSK	25	0	22.47	22.32	22.53	23	1
10	QPSK	25	12	22.31	22.25	22.54		
10	QPSK	25	25	22.36	22.26	22.54		
10	QPSK	50	0	22.29	22.26	22.53	23	1
10	16QAM	1	0	22.83	22.81	22.80		
10	16QAM	1	25	22.54	22.46	22.80		
10	16QAM	1	49	22.81	22.69	22.91	22	2
10	16QAM	25	0	21.42	21.26	21.49		
10	16QAM	25	12	21.31	21.26	21.53		
10	16QAM	25	25	21.31	21.25	21.47	22	2
10	16QAM	50	0	21.34	21.33	21.54		
10	64QAM	1	0	21.19	21.21	21.40		
10	64QAM	1	25	20.88	20.91	21.20	22	2
10	64QAM	1	49	21.19	21.08	21.30		
10	64QAM	25	0	19.94	19.81	20.00		
10	64QAM	25	12	19.80	19.78	20.03	21	3
10	64QAM	25	25	19.90	19.77	20.03		
10	64QAM	50	0	19.82	19.76	20.03		



FCC SAR Test Report

Report No. : FA892801

Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.31	23.27	23.55	24	0
5	QPSK	1	12	23.38	23.28	23.48		
5	QPSK	1	24	23.31	23.28	23.52		
5	QPSK	12	0	22.40	22.28	22.58	23	1
5	QPSK	12	7	22.42	22.27	22.51		
5	QPSK	12	13	22.40	22.25	22.52		
5	QPSK	25	0	22.43	22.31	22.53		
5	16QAM	1	0	22.66	22.62	22.91	23	1
5	16QAM	1	12	22.57	22.49	22.74		
5	16QAM	1	24	22.62	22.55	22.84		
5	16QAM	12	0	21.40	21.32	21.59	22	2
5	16QAM	12	7	21.43	21.29	21.58		
5	16QAM	12	13	21.42	21.31	21.52		
5	16QAM	25	0	21.36	21.30	21.52		
5	64QAM	1	0	21.06	20.98	21.28	22	2
5	64QAM	1	12	21.01	20.91	21.14		
5	64QAM	1	24	20.98	20.90	21.16		
5	64QAM	12	0	19.91	19.78	20.07	21	3
5	64QAM	12	7	19.92	19.79	20.01		
5	64QAM	12	13	19.91	19.81	20.01		
5	64QAM	25	0	19.86	19.82	20.04		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.74	22.45	22.55		
10	QPSK	1	25	22.62	22.64	22.59	24	0
10	QPSK	1	49	22.80	22.88	22.87		
10	QPSK	25	0	21.90	21.82	21.82		
10	QPSK	25	12	21.90	21.92	21.91	23	1
10	QPSK	25	25	21.85	21.82	21.82		
10	QPSK	50	0	21.84	21.75	21.86		
10	16QAM	1	0	22.20	22.27	22.19	23	1
10	16QAM	1	25	22.08	22.03	22.11		
10	16QAM	1	49	22.17	22.28	22.19		
10	16QAM	25	0	20.88	20.75	20.78	22	2
10	16QAM	25	12	20.81	20.83	20.87		
10	16QAM	25	25	20.80	20.80	20.82		
10	16QAM	50	0	20.89	20.76	20.88	22	2
10	64QAM	1	0	21.32	21.28	21.27		
10	64QAM	1	25	21.18	21.13	21.17		
10	64QAM	1	49	21.32	21.38	21.31	21	3
10	64QAM	25	0	20.11	19.97	20.05		
10	64QAM	25	12	20.08	20.03	20.07		
10	64QAM	25	25	20.05	20.07	20.01	21	3
10	64QAM	50	0	20.06	19.92	20.02		



FCC SAR Test Report

Report No. : FA892801

Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.76	22.72	22.69	24	0
5	QPSK	1	12	22.66	22.67	22.60		
5	QPSK	1	24	22.75	22.76	22.68		
5	QPSK	12	0	21.69	21.70	21.64	23	1
5	QPSK	12	7	21.69	21.66	21.61		
5	QPSK	12	13	21.69	21.69	21.67		
5	QPSK	25	0	21.71	21.73	21.68	23	1
5	16QAM	1	0	21.98	22.01	21.96		
5	16QAM	1	12	21.77	21.80	21.73		
5	16QAM	1	24	21.97	22.03	21.96	22	2
5	16QAM	12	0	20.74	20.77	20.71		
5	16QAM	12	7	20.80	20.75	20.68		
5	16QAM	12	13	20.78	20.78	20.76	22	2
5	16QAM	25	0	20.71	20.70	20.65		
5	64QAM	1	0	21.03	21.03	20.98		
5	64QAM	1	12	21.00	20.91	20.87	22	2
5	64QAM	1	24	21.01	21.09	20.95		
5	64QAM	12	0	19.93	19.87	19.87		
5	64QAM	12	7	19.94	19.90	19.87	21	3
5	64QAM	12	13	19.96	19.99	19.95		
5	64QAM	25	0	19.96	19.91	19.86		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.64	22.61	22.55	24	0
3	QPSK	1	8	22.80	22.74	22.67		
3	QPSK	1	14	22.65	22.68	22.61		
3	QPSK	8	0	21.62	21.72	21.61	23	1
3	QPSK	8	4	21.75	21.70	21.71		
3	QPSK	8	7	21.63	21.74	21.64		
3	QPSK	15	0	21.72	21.68	21.69	23	1
3	16QAM	1	0	21.95	21.93	21.91		
3	16QAM	1	8	22.11	22.07	22.12		
3	16QAM	1	14	22.10	22.11	22.14	22	2
3	16QAM	8	0	20.69	20.82	20.72		
3	16QAM	8	4	20.79	20.80	20.82		
3	16QAM	8	7	20.70	20.85	20.76	22	2
3	16QAM	15	0	20.76	20.69	20.74		
3	64QAM	1	0	20.72	20.67	20.72		
3	64QAM	1	8	20.87	20.76	20.79	22	2
3	64QAM	1	14	20.82	20.75	20.75		
3	64QAM	8	0	19.47	19.67	19.67		
3	64QAM	8	4	19.54	19.66	19.76	21	3
3	64QAM	8	7	19.44	19.65	19.76		
3	64QAM	15	0	19.50	19.65	19.79		



FCC SAR Test Report

Report No. : FA892801

Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.88	22.66	22.65	24	0
1.4	QPSK	1	3	22.80	22.65	22.70		
1.4	QPSK	1	5	22.82	22.65	22.61		
1.4	QPSK	3	0	22.86	22.67	22.58		
1.4	QPSK	3	1	22.78	22.66	22.66		
1.4	QPSK	3	3	22.77	22.67	22.58		
1.4	QPSK	6	0	21.79	21.62	21.62	23	1
1.4	16QAM	1	0	22.19	22.07	22.10	23	1
1.4	16QAM	1	3	22.13	22.07	22.08		
1.4	16QAM	1	5	22.05	22.13	22.07		
1.4	16QAM	3	0	21.93	21.79	21.68		
1.4	16QAM	3	1	22.00	21.74	21.73		
1.4	16QAM	3	3	21.88	21.73	21.62		
1.4	16QAM	6	0	20.82	20.69	20.68	22	2
1.4	64QAM	1	0	20.73	20.78	20.74	22	2
1.4	64QAM	1	3	20.73	20.79	20.82		
1.4	64QAM	1	5	20.71	20.65	20.76		
1.4	64QAM	3	0	20.70	20.72	20.76		
1.4	64QAM	3	1	20.78	20.75	20.79		
1.4	64QAM	3	3	20.66	20.69	20.72		
1.4	64QAM	6	0	19.62	19.64	19.72	21	3

<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	23230	-	24	0
Frequency (MHz)					782			
10	QPSK	1	0		22.43			
10	QPSK	1	25		22.36		23	1
10	QPSK	1	49		22.73			
10	QPSK	25	0		22.13			
10	QPSK	25	12		21.98		23	1
10	QPSK	25	25		22.03			
10	QPSK	50	0		22.06			
10	16QAM	1	0		22.31		23	1
10	16QAM	1	25		22.19			
10	16QAM	1	49		22.42			
10	16QAM	25	0		21.07		22	2
10	16QAM	25	12		20.93			
10	16QAM	25	25		21.02			
10	16QAM	50	0		21.09		22	2
10	64QAM	1	0		20.68			
10	64QAM	1	25		20.65			
10	64QAM	1	49		20.88		22	2
10	64QAM	25	0		19.61			
10	64QAM	25	12		19.49			
10	64QAM	25	25		19.57		21	3
10	64QAM	50	0		19.52			



FCC SAR Test Report

Report No. : FA892801

Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.64	22.63	22.52	24	0
5	QPSK	1	12	22.70	22.48	22.44		
5	QPSK	1	24	22.70	22.54	22.47		
5	QPSK	12	0	21.81	21.59	21.45	23	1
5	QPSK	12	7	21.85	21.54	21.52		
5	QPSK	12	13	21.78	21.55	21.37		
5	QPSK	25	0	21.83	21.55	21.42	23	1
5	16QAM	1	0	22.05	21.89	21.76		
5	16QAM	1	12	21.90	21.67	21.60		
5	16QAM	1	24	22.04	21.82	21.75	22	2
5	16QAM	12	0	20.79	20.65	20.46		
5	16QAM	12	7	20.83	20.55	20.52		
5	16QAM	12	13	20.82	20.59	20.40	22	2
5	16QAM	25	0	20.68	20.55	20.34		
5	64QAM	1	0	20.98	20.95	20.89		
5	64QAM	1	12	21.00	20.84	20.82	21	3
5	64QAM	1	24	21.07	20.85	20.86		
5	64QAM	12	0	19.93	19.81	19.77		
5	64QAM	12	7	19.97	19.76	19.80	21	3
5	64QAM	12	13	19.96	19.76	19.69		
5	64QAM	25	0	19.94	19.76	19.67		



<LTE Band 14>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	23330	-	24	0
Frequency (MHz)					793			
10	QPSK	1	0		22.94			
10	QPSK	1	25		22.50		23	1
10	QPSK	1	49		22.66			
10	QPSK	25	0		21.75			
10	QPSK	25	12		21.70		23	1
10	QPSK	25	25		21.73			
10	QPSK	50	0		21.67			
10	16QAM	1	0		22.09		23	1
10	16QAM	1	25		21.83			
10	16QAM	1	49		21.99			
10	16QAM	25	0		20.76		22	2
10	16QAM	25	12		20.68			
10	16QAM	25	25		20.63			
10	16QAM	50	0		20.73		22	2
10	64QAM	1	0		20.98			
10	64QAM	1	25		20.81			
10	64QAM	1	49		20.93		21	3
10	64QAM	25	0		19.76			
10	64QAM	25	12		19.67			
10	64QAM	25	25		19.71			
10	64QAM	50	0		19.68			



FCC SAR Test Report

Report No. : FA892801

Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.82	22.86	22.80	24	0
5	QPSK	1	12	22.78	22.73	22.77		
5	QPSK	1	24	22.75	22.76	22.73		
5	QPSK	12	0	21.81	21.76	21.77	23	1
5	QPSK	12	7	21.81	21.77	21.63		
5	QPSK	12	13	21.75	21.72	21.70		
5	QPSK	25	0	21.85	21.76	21.80	23	1
5	16QAM	1	0	22.10	22.17	22.04		
5	16QAM	1	12	21.98	21.93	21.98		
5	16QAM	1	24	22.06	22.09	22.04	22	2
5	16QAM	12	0	20.83	20.76	20.80		
5	16QAM	12	7	20.89	20.77	20.71		
5	16QAM	12	13	20.85	20.79	20.79	22	2
5	16QAM	25	0	20.76	20.74	20.71		
5	64QAM	1	0	20.90	20.97	20.90		
5	64QAM	1	12	20.83	20.77	20.76	21	3
5	64QAM	1	24	20.89	20.93	20.95		
5	64QAM	12	0	19.75	19.69	19.79		
5	64QAM	12	7	19.82	19.74	19.73	21	3
5	64QAM	12	13	19.78	19.73	19.82		
5	64QAM	25	0	19.81	19.74	19.79		

<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.72	22.39	22.44	24	0
10	QPSK	1	25	22.41	22.46	22.48		
10	QPSK	1	49	22.68	22.70	22.69		
10	QPSK	25	0	21.86	21.82	21.74	23	1
10	QPSK	25	12	21.75	21.78	21.84		
10	QPSK	25	25	21.85	21.74	21.79		
10	QPSK	50	0	21.71	21.79	21.87		
10	16QAM	1	0	22.25	22.17	22.28	23	1
10	16QAM	1	25	21.92	21.99	22.07		
10	16QAM	1	49	22.16	22.20	22.19		
10	16QAM	25	0	20.81	20.77	20.71	22	2
10	16QAM	25	12	20.73	20.77	20.82		
10	16QAM	25	25	20.85	20.73	20.76		
10	16QAM	50	0	20.76	20.80	20.86		
10	64QAM	1	0	21.29	21.21	21.30	22	2
10	64QAM	1	25	21.00	21.03	21.09		
10	64QAM	1	49	21.32	21.26	21.29		
10	64QAM	25	0	20.04	20.02	20.00	21	3
10	64QAM	25	12	20.00	20.03	20.10		
10	64QAM	25	25	20.08	20.01	20.03		
10	64QAM	50	0	19.95	19.97	20.05		



FCC SAR Test Report

Report No. : FA892801

Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.66	22.78	22.64	24	0
5	QPSK	1	12	22.68	22.71	22.60		
5	QPSK	1	24	22.89	22.78	22.67		
5	QPSK	12	0	21.73	21.71	21.73	23	1
5	QPSK	12	7	21.74	21.75	21.68		
5	QPSK	12	13	21.68	21.79	21.65		
5	QPSK	25	0	21.76	21.76	21.74	23	1
5	16QAM	1	0	21.99	22.08	21.94		
5	16QAM	1	12	21.90	21.85	21.76		
5	16QAM	1	24	22.16	22.07	21.96	22	2
5	16QAM	12	0	20.83	20.78	20.87		
5	16QAM	12	7	20.86	20.82	20.76		
5	16QAM	12	13	20.78	20.86	20.72	22	2
5	16QAM	25	0	20.76	20.73	20.74		
5	64QAM	1	0	21.21	21.34	21.28		
5	64QAM	1	12	21.21	21.25	21.23	22	2
5	64QAM	1	24	21.38	21.35	21.30		
5	64QAM	12	0	20.16	20.22	20.34		
5	64QAM	12	7	20.19	20.25	20.28	21	3
5	64QAM	12	13	20.14	20.30	20.24		
5	64QAM	25	0	20.22	20.22	20.33		

<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	22.57	22.52	22.51	24	0
20	QPSK	1	49	22.71	22.64	22.48		
20	QPSK	1	99	22.24	22.25	22.22		
20	QPSK	50	0	21.71	21.69	21.67	23	1
20	QPSK	50	24	21.82	21.82	21.71		
20	QPSK	50	50	21.64	21.70	21.67		
20	QPSK	100	0	21.81	21.79	21.80		
20	16QAM	1	0	21.94	21.93	21.87	23	1
20	16QAM	1	49	21.93	22.10	22.05		
20	16QAM	1	99	21.42	21.58	21.46		
20	16QAM	50	0	20.74	20.68	20.69	22	2
20	16QAM	50	24	20.86	20.79	20.78		
20	16QAM	50	50	20.68	20.75	20.72		
20	16QAM	100	0	20.69	20.70	20.63		
20	64QAM	1	0	20.69	20.76	20.70	22	2
20	64QAM	1	49	20.83	20.85	20.82		
20	64QAM	1	99	20.34	20.40	20.23		
20	64QAM	50	0	19.60	19.57	19.59	21	3
20	64QAM	50	24	19.69	19.68	19.58		
20	64QAM	50	50	19.55	19.59	19.57		
20	64QAM	100	0	19.60	19.61	19.54		



FCC SAR Test Report

Report No. : FA892801

Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	22.88	22.68	22.57	24	0
15	QPSK	1	37	22.78	22.54	22.37		
15	QPSK	1	74	22.82	22.68	22.63		
15	QPSK	36	0	21.87	21.65	21.59	23	1
15	QPSK	36	20	21.98	21.68	21.61		
15	QPSK	36	39	21.94	21.64	21.72		
15	QPSK	75	0	21.99	21.72	21.72	23	1
15	16QAM	1	0	22.41	22.15	22.18		
15	16QAM	1	37	22.07	21.93	21.93		
15	16QAM	1	74	22.32	22.33	22.11	22	2
15	16QAM	36	0	20.93	20.69	20.66		
15	16QAM	36	20	20.98	20.70	20.67		
15	16QAM	36	39	20.96	20.70	20.74	22	2
15	16QAM	75	0	20.99	20.75	20.72		
15	64QAM	1	0	20.76	20.49	20.51		
15	64QAM	1	37	21.00	20.67	20.79	21	3
15	64QAM	1	74	20.66	20.59	20.36		
15	64QAM	36	0	19.44	19.20	19.12		
15	64QAM	36	20	19.48	19.19	19.14	21	3
15	64QAM	36	39	19.48	19.19	19.24		
15	64QAM	75	0	19.45	19.26	19.23		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	22.84	22.85	22.80	24	0
10	QPSK	1	25	22.78	22.33	22.34		
10	QPSK	1	49	23.06	22.60	22.87		
10	QPSK	25	0	22.02	21.63	21.63	23	1
10	QPSK	25	12	22.00	21.59	21.67		
10	QPSK	25	25	22.01	21.64	21.73		
10	QPSK	50	0	22.01	21.61	21.71	23	1
10	16QAM	1	0	22.50	22.13	22.19		
10	16QAM	1	25	22.32	21.91	22.07		
10	16QAM	1	49	22.44	22.12	22.12	22	2
10	16QAM	25	0	20.96	20.57	20.63		
10	16QAM	25	12	20.94	20.55	20.63		
10	16QAM	25	25	20.90	20.57	20.60	22	2
10	16QAM	50	0	20.94	20.53	20.60		
10	64QAM	1	0	20.93	20.45	20.52		
10	64QAM	1	25	20.65	20.27	20.33	21	3
10	64QAM	1	49	20.85	20.48	20.40		
10	64QAM	25	0	19.52	19.13	19.17		
10	64QAM	25	12	19.49	19.09	19.14	21	3
10	64QAM	25	25	19.50	19.15	19.22		
10	64QAM	50	0	19.47	19.08	19.13		



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Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	22.50	22.72	22.75	24	0
5	QPSK	1	12	22.79	22.40	22.43		
5	QPSK	1	24	22.92	22.52	22.60		
5	QPSK	12	0	22.06	21.65	21.68	23	1
5	QPSK	12	7	21.98	21.58	21.64		
5	QPSK	12	13	21.98	21.54	21.60		
5	QPSK	25	0	22.00	21.58	21.66	23	1
5	16QAM	1	0	22.32	22.04	21.91		
5	16QAM	1	12	21.96	21.80	21.73		
5	16QAM	1	24	22.14	21.74	22.00	22	2
5	16QAM	12	0	21.12	20.74	20.79		
5	16QAM	12	7	21.06	20.63	20.78		
5	16QAM	12	13	21.08	20.65	20.75	22	2
5	16QAM	25	0	20.93	20.54	20.60		
5	64QAM	1	0	20.91	20.92	20.95		
5	64QAM	1	12	20.92	20.87	20.90	22	2
5	64QAM	1	24	20.80	20.69	20.80		
5	64QAM	12	0	19.77	19.70	19.82		
5	64QAM	12	7	19.77	19.70	19.81	21	3
5	64QAM	12	13	19.70	19.68	19.79		
5	64QAM	25	0	19.75	19.65	19.82		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	22.79	22.61	22.63	24	0
3	QPSK	1	8	22.82	22.51	22.60		
3	QPSK	1	14	22.99	22.45	22.50		
3	QPSK	8	0	22.07	21.61	21.66	23	1
3	QPSK	8	4	22.03	21.54	21.65		
3	QPSK	8	7	21.99	21.50	21.59		
3	QPSK	15	0	22.05	21.56	21.68	23	1
3	16QAM	1	0	22.30	21.74	21.81		
3	16QAM	1	8	22.12	21.61	21.98		
3	16QAM	1	14	22.39	21.49	22.03	22	2
3	16QAM	8	0	21.18	20.76	20.85		
3	16QAM	8	4	21.17	20.70	20.85		
3	16QAM	8	7	21.14	20.73	20.85	22	2
3	16QAM	15	0	20.99	20.52	20.60		
3	64QAM	1	0	20.95	20.74	20.80		
3	64QAM	1	8	20.90	20.72	20.89	22	2
3	64QAM	1	14	20.80	20.66	20.84		
3	64QAM	8	0	19.82	19.57	19.60		
3	64QAM	8	4	19.81	19.49	19.72	21	3
3	64QAM	8	7	19.79	19.48	19.67		
3	64QAM	15	0	19.82	19.55	19.76		

Sporton International (Kunshan) Inc.

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Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	22.51	22.17	22.29	24	0
1.4	QPSK	1	3	22.63	22.17	22.33		
1.4	QPSK	1	5	22.58	22.07	22.31		
1.4	QPSK	3	0	22.77	22.27	22.32		
1.4	QPSK	3	1	22.78	22.30	22.39		
1.4	QPSK	3	3	22.76	22.21	22.32		
1.4	QPSK	6	0	21.76	21.28	21.48	23	1
1.4	16QAM	1	0	21.75	21.34	21.69	23	1
1.4	16QAM	1	3	21.80	21.28	21.76		
1.4	16QAM	1	5	21.70	21.24	21.77		
1.4	16QAM	3	0	21.91	21.42	21.57		
1.4	16QAM	3	1	21.91	21.53	21.65		
1.4	16QAM	3	3	21.83	21.43	21.55		
1.4	16QAM	6	0	20.60	20.30	20.36	22	2
1.4	64QAM	1	0	20.39	20.35	20.40	22	2
1.4	64QAM	1	3	20.30	20.46	20.45		
1.4	64QAM	1	5	20.46	20.40	20.49		
1.4	64QAM	3	0	20.67	20.42	20.58		
1.4	64QAM	3	1	20.67	20.45	20.70		
1.4	64QAM	3	3	20.60	20.31	20.59		
1.4	64QAM	6	0	19.54	19.31	19.49	21	3



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.99	23.13	22.98		
15	QPSK	1	37	22.51	22.58	22.37	24	0
15	QPSK	1	74	22.89	22.96	22.82		
15	QPSK	36	0	22.29	22.11	22.09		
15	QPSK	36	20	21.95	22.02	21.84	23	1
15	QPSK	36	39	21.83	21.76	21.72		
15	QPSK	75	0	22.03	22.05	21.95		
15	16QAM	1	0	22.66	22.50	22.42	23	1
15	16QAM	1	37	22.23	22.26	22.11		
15	16QAM	1	74	22.38	22.64	22.52		
15	16QAM	36	0	21.40	21.16	21.10	22	2
15	16QAM	36	20	20.99	21.03	20.86		
15	16QAM	36	39	20.83	20.82	20.72		
15	16QAM	75	0	21.04	21.06	21.00	22	2
15	64QAM	1	0	21.57	21.41	21.31		
15	64QAM	1	37	21.06	21.14	21.03		
15	64QAM	1	74	21.41	21.48	21.39	21	3
15	64QAM	36	0	20.39	20.14	20.11		
15	64QAM	36	20	20.02	20.02	19.86		
15	64QAM	36	39	19.74	19.80	19.61	21	3
15	64QAM	75	0	20.04	20.06	20.01		



FCC SAR Test Report

Report No. : FA892801

Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.10	23.10	22.78	24	0
10	QPSK	1	25	22.78	22.80	22.40		
10	QPSK	1	49	23.12	22.87	22.85		
10	QPSK	25	0	22.12	22.20	21.89	23	1
10	QPSK	25	12	22.15	22.07	21.81		
10	QPSK	25	25	22.19	22.06	21.79		
10	QPSK	50	0	22.13	22.11	21.82	23	1
10	16QAM	1	0	22.24	22.31	22.28		
10	16QAM	1	25	22.24	22.17	21.91		
10	16QAM	1	49	22.33	22.21	22.12	22	2
10	16QAM	25	0	21.10	21.13	20.86		
10	16QAM	25	12	21.10	21.07	20.79		
10	16QAM	25	25	21.21	21.04	20.73	22	2
10	16QAM	50	0	21.14	21.08	20.82		
10	64QAM	1	0	21.58	21.76	21.66		
10	64QAM	1	25	21.66	21.49	21.30	22	2
10	64QAM	1	49	21.70	21.75	21.47		
10	64QAM	25	0	20.56	20.52	20.36		
10	64QAM	25	12	20.61	20.46	20.29	21	3
10	64QAM	25	25	20.65	20.43	20.26		
10	64QAM	50	0	20.57	20.47	20.32		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.79	22.73	22.43	24	0
5	QPSK	1	12	22.63	22.67	22.31		
5	QPSK	1	24	22.73	22.60	22.36		
5	QPSK	12	0	22.12	22.02	21.68	23	1
5	QPSK	12	7	22.13	22.02	21.68		
5	QPSK	12	13	22.03	22.01	21.63		
5	QPSK	25	0	22.03	22.05	21.69	23	1
5	16QAM	1	0	22.32	22.31	21.94		
5	16QAM	1	12	22.14	22.13	21.80		
5	16QAM	1	24	22.27	22.14	21.89	22	2
5	16QAM	12	0	21.12	21.04	20.75		
5	16QAM	12	7	21.19	21.06	20.72		
5	16QAM	12	13	21.07	20.99	20.71	22	2
5	16QAM	25	0	20.97	21.03	20.67		
5	64QAM	1	0	21.60	21.56	21.30		
5	64QAM	1	12	21.49	21.42	21.17	22	2
5	64QAM	1	24	21.60	21.48	21.26		
5	64QAM	12	0	20.55	20.43	20.18		
5	64QAM	12	7	20.58	20.45	20.15	21	3
5	64QAM	12	13	20.47	20.38	20.20		
5	64QAM	25	0	20.46	20.43	20.19		



FCC SAR Test Report

Report No. : FA892801

Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.70	22.72	22.29	24	0
3	QPSK	1	8	22.80	22.66	22.34		
3	QPSK	1	14	22.63	22.58	22.28		
3	QPSK	8	0	22.08	22.02	21.66	23	1
3	QPSK	8	4	22.13	22.05	21.70		
3	QPSK	8	7	22.09	22.00	21.66		
3	QPSK	15	0	22.10	22.04	21.69	23	1
3	16QAM	1	0	22.24	22.37	21.83		
3	16QAM	1	8	22.15	22.30	21.89		
3	16QAM	1	14	22.17	22.15	21.88	22	2
3	16QAM	8	0	21.15	21.03	20.75		
3	16QAM	8	4	21.19	21.08	20.73		
3	16QAM	8	7	21.14	21.03	20.73	22	2
3	16QAM	15	0	21.12	21.04	20.67		
3	64QAM	1	0	21.57	21.54	21.16		
3	64QAM	1	8	21.62	21.53	21.18	22	2
3	64QAM	1	14	21.52	21.45	21.17		
3	64QAM	8	0	20.57	20.46	20.14		
3	64QAM	8	4	20.61	20.45	20.15	21	3
3	64QAM	8	7	20.58	20.39	20.15		
3	64QAM	15	0	20.55	20.42	20.15		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.71	22.63	22.24	24	0
1.4	QPSK	1	3	22.76	22.66	22.29		
1.4	QPSK	1	5	22.73	22.59	22.24		
1.4	QPSK	3	0	22.70	22.63	22.28	23	1
1.4	QPSK	3	1	22.75	22.65	22.28		
1.4	QPSK	3	3	22.74	22.67	22.28		
1.4	QPSK	6	0	22.06	22.02	21.69	23	1
1.4	16QAM	1	0	22.27	22.20	21.81	23	1
1.4	16QAM	1	3	22.15	22.24	21.85		
1.4	16QAM	1	5	22.26	22.15	21.78		
1.4	16QAM	3	0	22.07	22.00	21.69	22	2
1.4	16QAM	3	1	22.11	22.04	21.76		
1.4	16QAM	3	3	22.05	21.99	21.74		
1.4	16QAM	6	0	21.19	21.04	20.66	22	2
1.4	64QAM	1	0	21.62	21.45	21.17	22	2
1.4	64QAM	1	3	21.67	21.50	21.26		
1.4	64QAM	1	5	21.61	21.42	21.15		
1.4	64QAM	3	0	21.49	21.42	21.16	21	3
1.4	64QAM	3	1	21.54	21.47	21.19		
1.4	64QAM	3	3	21.53	21.38	21.13		
1.4	64QAM	6	0	20.56	20.40	20.06	21	3



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	27710	-		
Frequency (MHz)					2310			
10	QPSK	1	0		23.03		24	0
10	QPSK	1	25		22.94			
10	QPSK	1	49		23.29			
10	QPSK	25	0		21.79			
10	QPSK	25	12		21.85		23	1
10	QPSK	25	25		21.83			
10	QPSK	50	0		21.75			
10	16QAM	1	0		22.78		23	1
10	16QAM	1	25		22.59			
10	16QAM	1	49		22.78			
10	16QAM	25	0		20.80		22	2
10	16QAM	25	12		20.85			
10	16QAM	25	25		20.88			
10	16QAM	50	0		20.79			
10	64QAM	1	0		21.85		22	2
10	64QAM	1	25		21.54			
10	64QAM	1	49		21.85			
10	64QAM	25	0		19.99		21	3
10	64QAM	25	12		20.06			
10	64QAM	25	25		20.07			
10	64QAM	50	0		19.97			



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Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	23.14	23.04	23.08	24	0
5	QPSK	1	12	22.94	23.09	23.11		
5	QPSK	1	24	22.97	23.15	23.24		
5	QPSK	12	0	22.24	22.10	22.24	23	1
5	QPSK	12	7	22.08	22.13	22.16		
5	QPSK	12	13	22.03	22.12	22.20		
5	QPSK	25	0	22.08	22.44	22.57		
5	16QAM	1	0	22.41	22.42	22.37	23	1
5	16QAM	1	12	22.23	22.38	22.41		
5	16QAM	1	24	22.24	22.25	22.32		
5	16QAM	12	0	21.28	21.17	21.26	22	2
5	16QAM	12	7	21.11	21.20	21.19		
5	16QAM	12	13	21.11	21.10	21.21		
5	16QAM	25	0	21.10	21.30	21.40		
5	64QAM	1	0	21.78	21.67	21.66	22	2
5	64QAM	1	12	21.63	21.68	21.65		
5	64QAM	1	24	21.61	21.65	21.63		
5	64QAM	12	0	20.73	20.58	20.64	21	3
5	64QAM	12	7	20.61	20.62	20.58		
5	64QAM	12	13	20.58	20.57	20.65		
5	64QAM	25	0	20.64	20.61	20.60		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.88	22.50	23.05		
20	QPSK	1	49	22.80	22.73	23.06	24	0
20	QPSK	1	99	22.93	23.06	23.10		
20	QPSK	50	0	21.62	21.70	21.85		
20	QPSK	50	24	21.67	21.76	22.02	23	1
20	QPSK	50	50	21.58	21.54	21.87		
20	QPSK	100	0	21.56	21.67	21.95		
20	16QAM	1	0	21.69	21.79	21.88	23	1
20	16QAM	1	49	21.92	22.11	22.41		
20	16QAM	1	99	22.18	22.34	22.55		
20	16QAM	50	0	20.59	20.66	20.93	22	2
20	16QAM	50	24	20.63	20.74	20.97		
20	16QAM	50	50	20.57	20.74	20.84		
20	16QAM	100	0	20.61	20.66	20.91	22	2
20	64QAM	1	0	20.78	21.26	20.96		
20	64QAM	1	49	20.65	21.63	21.15		
20	64QAM	1	99	21.26	21.96	21.55	21	3
20	64QAM	50	0	19.79	19.85	20.05		
20	64QAM	50	24	19.82	19.90	20.15		
20	64QAM	50	50	19.76	19.88	20.06	21	3
20	64QAM	100	0	19.83	19.83	20.10		



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Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.73	22.96	22.96	24	0
15	QPSK	1	37	22.87	22.92	22.48		
15	QPSK	1	74	22.98	22.84	22.63		
15	QPSK	36	0	22.03	21.70	21.61	23	1
15	QPSK	36	20	21.88	21.67	21.61		
15	QPSK	36	39	21.73	21.61	21.48		
15	QPSK	75	0	21.83	21.71	21.62	23	1
15	16QAM	1	0	22.55	22.27	22.25		
15	16QAM	1	37	22.08	21.88	21.88		
15	16QAM	1	74	22.30	22.32	22.17	22	2
15	16QAM	36	0	21.07	20.71	20.67		
15	16QAM	36	20	20.94	20.71	20.63		
15	16QAM	36	39	20.77	20.63	20.57	22	2
15	16QAM	75	0	20.88	20.73	20.63		
15	64QAM	1	0	20.88	21.15	20.78		
15	64QAM	1	37	20.83	21.01	21.27	22	2
15	64QAM	1	74	20.83	21.16	20.80		
15	64QAM	36	0	20.05	19.70	19.65		
15	64QAM	36	20	19.91	19.71	19.63	21	3
15	64QAM	36	39	19.73	19.63	19.54		
15	64QAM	75	0	19.88	19.74	19.60		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.10	23.10	23.12	24	0
10	QPSK	1	25	22.88	22.80	22.50		
10	QPSK	1	49	23.28	22.95	22.98		
10	QPSK	25	0	21.86	21.86	21.62	23	1
10	QPSK	25	12	22.03	21.95	21.82		
10	QPSK	25	25	21.95	22.02	21.82		
10	QPSK	50	0	22.05	21.94	21.82	23	1
10	16QAM	1	0	21.69	21.61	21.50		
10	16QAM	1	25	22.07	22.19	22.26		
10	16QAM	1	49	22.38	22.27	22.17	22	2
10	16QAM	25	0	20.95	20.87	20.69		
10	16QAM	25	12	21.07	20.90	20.81		
10	16QAM	25	25	21.06	20.94	20.76	22	2
10	16QAM	50	0	21.02	20.88	20.74		
10	64QAM	1	0	21.00	21.27	21.18		
10	64QAM	1	25	21.52	21.09	20.86	22	2
10	64QAM	1	49	21.53	21.62	21.40		
10	64QAM	25	0	19.89	19.92	19.70		
10	64QAM	25	12	19.98	19.98	19.83	21	3
10	64QAM	25	25	19.97	20.05	19.86		
10	64QAM	50	0	19.98	19.89	19.76		



FCC SAR Test Report

Report No. : FA892801

Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.10	22.93	22.82	24	0
5	QPSK	1	12	22.92	22.79	22.81		
5	QPSK	1	24	22.91	22.91	22.77		
5	QPSK	12	0	22.07	21.93	21.73	23	1
5	QPSK	12	7	22.00	21.90	21.77		
5	QPSK	12	13	22.00	21.87	21.70		
5	QPSK	25	0	21.96	21.93	21.80	23	1
5	16QAM	1	0	22.29	22.31	22.28		
5	16QAM	1	12	22.31	22.10	22.19		
5	16QAM	1	24	22.24	22.19	22.25	22	2
5	16QAM	12	0	21.10	20.99	20.74		
5	16QAM	12	7	21.03	20.97	20.79		
5	16QAM	12	13	21.02	20.91	20.74	22	2
5	16QAM	25	0	21.06	20.88	20.82		
5	64QAM	1	0	21.53	21.16	21.45	22	2
5	64QAM	1	12	21.36	20.96	21.38		
5	64QAM	1	24	21.37	21.03	21.51		
5	64QAM	12	0	20.11	19.97	19.76	21	3
5	64QAM	12	7	20.01	19.97	19.77		
5	64QAM	12	13	20.00	19.90	19.74		
5	64QAM	25	0	19.99	19.94	19.76	Tune-up limit (dBm)	MPR (dB)
Channel				131987	132322	132657		
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	23.00	22.84	22.71		
3	QPSK	1	8	23.05	22.90	22.69	24	0
3	QPSK	1	14	22.89	22.79	22.68		
3	QPSK	8	0	22.06	21.93	21.71	23	1
3	QPSK	8	4	22.02	21.91	21.73		
3	QPSK	8	7	21.97	21.84	21.65		
3	QPSK	15	0	22.00	21.87	21.73	23	1
3	16QAM	1	0	22.28	22.19	22.27		
3	16QAM	1	8	22.31	22.21	22.31		
3	16QAM	1	14	22.25	22.02	22.13	22	2
3	16QAM	8	0	21.04	21.05	20.78		
3	16QAM	8	4	21.09	21.00	20.71		
3	16QAM	8	7	20.94	20.98	20.73	22	2
3	16QAM	15	0	21.08	20.92	20.79		
3	64QAM	1	0	21.19	20.99	21.26		
3	64QAM	1	8	21.30	21.03	21.31	21	3
3	64QAM	1	14	21.18	20.91	21.24		
3	64QAM	8	0	20.01	19.90	19.74		
3	64QAM	8	4	20.06	19.91	19.70	21	3
3	64QAM	8	7	19.97	19.87	19.67		
3	64QAM	15	0	20.05	19.90	19.71		



FCC SAR Test Report

Report No. : FA892801

Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.86	22.83	22.71	24	0
1.4	QPSK	1	3	22.91	22.88	23.04		
1.4	QPSK	1	5	22.84	22.77	22.91		
1.4	QPSK	3	0	22.86	22.85	22.74		
1.4	QPSK	3	1	22.94	22.94	22.77		
1.4	QPSK	3	3	22.92	22.82	22.77		
1.4	QPSK	6	0	21.90	21.86	21.75	23	1
1.4	16QAM	1	0	22.23	22.13	21.95	23	1
1.4	16QAM	1	3	22.28	22.15	22.04		
1.4	16QAM	1	5	22.21	22.07	21.97		
1.4	16QAM	3	0	22.01	22.01	21.69		
1.4	16QAM	3	1	21.99	22.08	21.78		
1.4	16QAM	3	3	22.00	21.96	21.67		
1.4	16QAM	6	0	21.01	20.86	20.64	22	2
1.4	64QAM	1	0	21.08	21.04	20.95	22	2
1.4	64QAM	1	3	21.11	21.04	20.96		
1.4	64QAM	1	5	21.01	20.97	20.91		
1.4	64QAM	3	0	20.96	21.00	20.88		
1.4	64QAM	3	1	21.03	21.00	20.89		
1.4	64QAM	3	3	20.94	20.88	20.86		
1.4	64QAM	6	0	20.02	19.90	19.75	21	3

<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	22.98	23.10	22.82		
20	QPSK	1	49	22.96	23.01	22.80	24	0
20	QPSK	1	99	23.01	22.95	22.69		
20	QPSK	50	0	21.54	21.69	21.49		
20	QPSK	50	24	21.61	21.68	21.50	23	1
20	QPSK	50	50	21.57	21.60	21.44		
20	QPSK	100	0	21.58	21.65	21.47		
20	16QAM	1	0	21.14	21.15	21.12	23	1
20	16QAM	1	49	21.10	21.23	21.12		
20	16QAM	1	99	21.19	21.20	21.01		
20	16QAM	50	0	20.34	20.39	20.35	22	2
20	16QAM	50	24	20.43	20.40	20.37		
20	16QAM	50	50	20.38	20.34	20.29		
20	16QAM	100	0	20.42	20.36	20.35	22	2
20	64QAM	1	0	20.84	20.75	20.78		
20	64QAM	1	49	20.73	20.86	20.79		
20	64QAM	1	99	20.88	20.82	20.66	21	3
20	64QAM	50	0	20.24	20.21	20.11		
20	64QAM	50	24	20.13	20.32	20.12		
20	64QAM	50	50	20.28	20.28	19.99	21	3
20	64QAM	100	0	20.12	20.20	20.23		



FCC SAR Test Report

Report No. : FA892801

Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.55	23.59	23.49	24	0
15	QPSK	1	37	23.45	23.47	23.49		
15	QPSK	1	74	23.45	23.49	23.25		
15	QPSK	36	0	22.48	22.49	22.45	23	1
15	QPSK	36	20	22.53	22.54	22.57		
15	QPSK	36	39	22.49	22.52	22.55		
15	QPSK	75	0	22.49	22.52	22.43	23	1
15	16QAM	1	0	22.82	22.84	22.78		
15	16QAM	1	37	22.74	22.81	22.84		
15	16QAM	1	74	22.75	22.85	22.43	22	2
15	16QAM	36	0	21.58	21.59	21.52		
15	16QAM	36	20	21.61	21.62	21.64		
15	16QAM	36	39	21.58	21.60	21.62	22	2
15	16QAM	75	0	21.57	21.58	21.49		
15	64QAM	1	0	21.46	21.51	21.43		
15	64QAM	1	37	21.39	21.49	21.45	22	2
15	64QAM	1	74	21.41	21.48	21.14		
15	64QAM	36	0	20.35	20.37	20.30		
15	64QAM	36	20	20.36	20.39	20.43	21	3
15	64QAM	36	39	20.33	20.35	20.40		
15	64QAM	75	0	20.28	20.30	20.23		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.46	23.50	23.48	24	0
10	QPSK	1	25	23.50	23.58	23.58		
10	QPSK	1	49	23.16	23.47	23.29		
10	QPSK	25	0	22.49	22.48	22.53	23	1
10	QPSK	25	12	22.48	22.50	22.55		
10	QPSK	25	25	22.44	22.49	22.48		
10	QPSK	50	0	22.45	22.48	22.52	23	1
10	16QAM	1	0	22.75	22.82	22.82		
10	16QAM	1	25	22.87	22.93	22.88		
10	16QAM	1	49	22.74	22.82	22.34	22	2
10	16QAM	25	0	21.59	21.62	21.63		
10	16QAM	25	12	21.60	21.65	21.68		
10	16QAM	25	25	21.57	21.60	21.64	22	2
10	16QAM	50	0	21.55	21.60	21.60		
10	64QAM	1	0	21.39	21.44	21.43		
10	64QAM	1	25	21.45	21.51	21.49	22	2
10	64QAM	1	49	21.37	21.44	21.05		
10	64QAM	25	0	20.28	20.32	20.35		
10	64QAM	25	12	20.32	20.35	20.38	21	3
10	64QAM	25	25	20.29	20.33	20.35		
10	64QAM	50	0	20.28	20.28	20.34		



FCC SAR Test Report

Report No. : FA892801

Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.37	23.40	23.38	24	0
5	QPSK	1	12	23.34	23.48	23.39		
5	QPSK	1	24	23.34	23.40	23.15		
5	QPSK	12	0	22.78	22.81	22.72	23	1
5	QPSK	12	7	22.79	22.83	22.64		
5	QPSK	12	13	22.79	22.82	22.59		
5	QPSK	25	0	21.77	21.77	21.62	23	1
5	16QAM	1	0	22.70	22.72	22.66		
5	16QAM	1	12	22.75	22.81	22.66		
5	16QAM	1	24	22.68	22.77	22.22	22	2
5	16QAM	12	0	21.86	21.88	21.74		
5	16QAM	12	7	21.89	21.90	21.77		
5	16QAM	12	13	21.88	21.90	21.73	22	2
5	16QAM	25	0	20.91	20.95	20.80		
5	64QAM	1	0	21.99	21.98	21.98		
5	64QAM	1	12	21.90	21.89	21.97	21	3
5	64QAM	1	24	21.92	21.90	21.64		
5	64QAM	12	0	20.69	20.72	20.67		
5	64QAM	12	7	20.73	20.74	20.63	21	3
5	64QAM	12	13	20.74	20.73	20.54		
5	64QAM	25	0	20.22	20.23	20.21		

<Reduced Power Mode for P-Sensor On>
<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	17.50	17.26	17.89	18.5	0
20	QPSK	1	49	17.59	17.38	17.53		
20	QPSK	1	99	17.00	17.02	17.17		
20	QPSK	50	0	17.58	17.56	17.71	18.5	0
20	QPSK	50	24	17.71	17.57	17.71		
20	QPSK	50	50	17.39	17.36	17.54		
20	QPSK	100	0	17.62	17.54	17.75	18.5	0
20	16QAM	1	0	17.60	17.77	18.00		
20	16QAM	1	49	17.70	18.11	18.00		
20	16QAM	1	99	17.37	17.54	17.36	18.5	0
20	16QAM	50	0	17.64	17.59	17.74		
20	16QAM	50	24	17.78	17.60	17.74		
20	16QAM	50	50	17.46	17.38	17.54	18.5	0
20	16QAM	100	0	17.52	17.45	17.68		
20	64QAM	1	0	17.28	17.45	17.95		
20	64QAM	1	49	17.66	17.52	18.16	18.5	0
20	64QAM	1	99	17.60	17.24	17.34		
20	64QAM	50	0	17.64	17.58	17.70		
20	64QAM	50	24	17.68	17.58	17.77	18.5	0
20	64QAM	50	50	17.44	17.36	17.60		
20	64QAM	100	0	17.41	17.47	17.70		



FCC SAR Test Report

Report No. : FA892801

Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.28	17.26	17.24	18.5	0
15	QPSK	1	37	17.48	17.33	17.73		
15	QPSK	1	74	17.74	17.57	17.72		
15	QPSK	36	0	17.67	17.61	17.82	18.5	0
15	QPSK	36	20	17.70	17.53	17.77		
15	QPSK	36	39	17.61	17.54	17.75		
15	QPSK	75	0	17.54	17.52	17.70	18.5	0
15	16QAM	1	0	17.89	17.90	17.89		
15	16QAM	1	37	18.08	17.64	17.95		
15	16QAM	1	74	17.80	17.70	17.75	18.5	0
15	16QAM	36	0	17.65	17.56	17.65		
15	16QAM	36	20	17.52	17.48	17.73		
15	16QAM	36	39	17.53	17.46	17.68	18.5	0
15	16QAM	75	0	17.65	17.59	17.76		
15	64QAM	1	0	18.17	17.76	17.78		
15	64QAM	1	37	17.50	17.45	17.34	18.5	0
15	64QAM	1	74	17.57	17.59	17.63		
15	64QAM	36	0	17.60	17.50	17.72		
15	64QAM	36	20	17.64	17.50	17.71	18.5	0
15	64QAM	36	39	17.54	17.47	17.60		
15	64QAM	75	0	17.63	17.58	17.75		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.50	17.56	17.38	18.5	0
10	QPSK	1	25	17.51	17.97	17.78		
10	QPSK	1	49	17.80	17.84	17.68		
10	QPSK	25	0	17.63	17.70	17.74	18.5	0
10	QPSK	25	12	17.59	17.68	17.65		
10	QPSK	25	25	17.67	17.70	17.75		
10	QPSK	50	0	17.53	17.72	17.68	18.5	0
10	16QAM	1	0	17.86	18.19	18.07		
10	16QAM	1	25	17.87	18.13	18.01		
10	16QAM	1	49	17.80	17.98	17.81	18.5	0
10	16QAM	25	0	17.66	17.72	17.75		
10	16QAM	25	12	17.59	17.69	17.65		
10	16QAM	25	25	17.65	17.69	17.66	18.5	0
10	16QAM	50	0	17.55	17.65	17.60		
10	64QAM	1	0	17.62	17.92	17.98		
10	64QAM	1	25	17.42	17.87	18.15	18.5	0
10	64QAM	1	49	17.96	17.94	17.83		
10	64QAM	25	0	17.55	17.72	17.78		
10	64QAM	25	12	17.61	17.71	17.69	18.5	0
10	64QAM	25	25	17.60	17.79	17.70		
10	64QAM	50	0	17.56	17.77	17.61		

Sporton International (Kunshan) Inc.

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FCC SAR Test Report

Report No. : FA892801

Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.40	17.59	17.80	18.5	0
5	QPSK	1	12	17.68	17.85	17.71		
5	QPSK	1	24	17.58	17.88	17.70		
5	QPSK	12	0	17.74	17.84	17.83	18.5	0
5	QPSK	12	7	17.63	17.73	17.75		
5	QPSK	12	13	17.61	17.71	17.72		
5	QPSK	25	0	17.71	17.73	17.77	18.5	0
5	16QAM	1	0	18.07	18.03	17.99		
5	16QAM	1	12	17.96	17.85	17.76		
5	16QAM	1	24	18.22	18.27	17.83	18.5	0
5	16QAM	12	0	17.69	17.83	17.89		
5	16QAM	12	7	17.68	17.82	17.85		
5	16QAM	12	13	17.68	17.79	17.80	18.5	0
5	16QAM	25	0	17.72	17.84	17.86		
5	64QAM	1	0	17.90	18.03	17.99		
5	64QAM	1	12	17.75	17.78	18.04	18.5	0
5	64QAM	1	24	17.83	17.94	17.95		
5	64QAM	12	0	17.79	17.78	17.84		
5	64QAM	12	7	17.68	17.76	17.77	18.5	0
5	64QAM	12	13	17.61	17.74	17.74		
5	64QAM	25	0	17.76	17.80	17.85		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	17.27	17.34	17.37	18.5	0
3	QPSK	1	8	17.93	17.66	17.65		
3	QPSK	1	14	17.84	17.67	17.62		
3	QPSK	8	0	17.69	17.78	17.79	18.5	0
3	QPSK	8	4	17.75	17.77	17.77		
3	QPSK	8	7	17.66	17.68	17.75		
3	QPSK	15	0	17.67	17.73	17.71	18.5	0
3	16QAM	1	0	17.97	17.97	17.96		
3	16QAM	1	8	17.95	17.94	17.96		
3	16QAM	1	14	17.92	17.93	17.88	18.5	0
3	16QAM	8	0	17.65	17.74	17.79		
3	16QAM	8	4	17.82	17.71	17.85		
3	16QAM	8	7	17.63	17.70	17.82	18.5	0
3	16QAM	15	0	17.70	17.80	17.74		
3	64QAM	1	0	17.67	17.94	17.73		
3	64QAM	1	8	17.83	17.91	17.91	18.5	0
3	64QAM	1	14	17.73	17.81	17.73		
3	64QAM	8	0	17.78	17.77	17.77		
3	64QAM	8	4	17.82	17.74	17.74	18.5	0
3	64QAM	8	7	17.75	17.63	17.72		
3	64QAM	15	0	17.65	17.74	17.70		



FCC SAR Test Report

Report No. : FA892801

Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.35	17.50	17.65	18.5	0
1.4	QPSK	1	3	17.71	17.74	17.80		
1.4	QPSK	1	5	17.70	17.65	17.74		
1.4	QPSK	3	0	17.66	17.71	17.69		
1.4	QPSK	3	1	17.59	17.73	17.73		
1.4	QPSK	3	3	17.63	17.66	17.70		
1.4	QPSK	6	0	17.64	17.69	17.75	18.5	0
1.4	16QAM	1	0	18.10	18.04	17.96	18.5	0
1.4	16QAM	1	3	18.02	18.07	18.02		
1.4	16QAM	1	5	18.05	18.00	18.01		
1.4	16QAM	3	0	17.61	17.64	17.69		
1.4	16QAM	3	1	17.64	17.74	17.82		
1.4	16QAM	3	3	17.56	17.65	17.73		
1.4	16QAM	6	0	17.80	17.80	17.75	18.5	0
1.4	64QAM	1	0	17.75	17.94	17.65	18.5	0
1.4	64QAM	1	3	17.58	17.76	17.70		
1.4	64QAM	1	5	17.78	17.77	17.65		
1.4	64QAM	3	0	17.69	17.80	17.77		
1.4	64QAM	3	1	17.71	17.82	17.77		
1.4	64QAM	3	3	17.71	17.80	17.81		
1.4	64QAM	6	0	17.63	17.63	17.72	18.5	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	18.5	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.66	16.97	17.18		
20	QPSK	1	49	17.04	16.94	16.91	18.5	0
20	QPSK	1	99	16.66	16.99	16.67		
20	QPSK	50	0	16.89	16.90	16.92		
20	QPSK	50	24	16.93	16.90	16.90	18.5	0
20	QPSK	50	50	16.79	16.82	16.72		
20	QPSK	100	0	16.85	17.03	16.75		
20	16QAM	1	0	16.73	16.89	16.74	18.5	0
20	16QAM	1	49	16.80	16.96	17.06		
20	16QAM	1	99	16.89	16.60	16.81		
20	16QAM	50	0	16.99	16.89	16.86	18.5	0
20	16QAM	50	24	17.06	16.99	16.86		
20	16QAM	50	50	16.73	16.86	16.68		
20	16QAM	100	0	16.91	16.90	16.74	18.5	0
20	64QAM	1	0	16.90	16.72	16.81		
20	64QAM	1	49	17.10	16.63	16.53		
20	64QAM	1	99	16.95	16.89	16.68	18.5	0
20	64QAM	50	0	16.85	16.95	16.92		
20	64QAM	50	24	16.99	17.04	16.92		
20	64QAM	50	50	16.83	16.77	16.69	18.5	0
20	64QAM	100	0	16.92	16.80	16.73		



FCC SAR Test Report

Report No. : FA892801

Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	17.30	17.39	17.30	18.5	0
15	QPSK	1	37	16.83	16.98	16.78		
15	QPSK	1	74	16.64	17.16	16.60		
15	QPSK	36	0	17.03	16.98	16.86	18.5	0
15	QPSK	36	20	17.04	17.05	16.90		
15	QPSK	36	39	16.82	16.87	16.81		
15	QPSK	75	0	16.91	16.92	16.83	18.5	0
15	16QAM	1	0	17.38	17.60	17.60		
15	16QAM	1	37	16.88	17.23	17.46		
15	16QAM	1	74	17.50	16.51	17.41	18.5	0
15	16QAM	36	0	17.02	17.02	16.88		
15	16QAM	36	20	16.99	16.98	16.96		
15	16QAM	36	39	16.92	16.82	16.88	18.5	0
15	16QAM	75	0	16.90	16.94	16.88		
15	64QAM	1	0	17.07	17.06	17.41		
15	64QAM	1	37	17.04	17.10	17.30	18.5	0
15	64QAM	1	74	16.82	16.87	17.05		
15	64QAM	36	0	16.94	17.02	16.86		
15	64QAM	36	20	16.94	16.98	16.98	18.5	0
15	64QAM	36	39	16.86	16.82	16.78		
15	64QAM	75	0	16.86	16.91	16.78		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.75	16.90	16.76	18.5	0
10	QPSK	1	25	17.02	17.13	17.03		
10	QPSK	1	49	17.57	17.07	17.41		
10	QPSK	25	0	17.12	17.18	17.06	18.5	0
10	QPSK	25	12	17.16	17.27	17.13		
10	QPSK	25	25	17.21	17.17	17.21		
10	QPSK	50	0	17.12	17.20	17.06	18.5	0
10	16QAM	1	0	17.97	17.46	17.55		
10	16QAM	1	25	17.69	17.22	17.65		
10	16QAM	1	49	17.89	17.50	17.70	18.5	0
10	16QAM	25	0	17.02	17.06	17.08		
10	16QAM	25	12	17.02	17.08	17.02		
10	16QAM	25	25	17.25	17.21	17.10	18.5	0
10	16QAM	50	0	17.13	17.15	17.09		
10	64QAM	1	0	17.35	17.38	17.47		
10	64QAM	1	25	17.17	17.64	17.41	18.5	0
10	64QAM	1	49	17.36	16.73	17.67		
10	64QAM	25	0	17.17	17.16	17.07		
10	64QAM	25	12	17.23	17.12	17.08	18.5	0
10	64QAM	25	25	17.24	17.27	17.22		
10	64QAM	50	0	17.09	17.13	17.05		



FCC SAR Test Report

Report No. : FA892801

Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.61	16.61	16.98	18.5	0
5	QPSK	1	12	16.99	17.11	17.13		
5	QPSK	1	24	17.02	17.13	16.95		
5	QPSK	12	0	17.19	17.13	17.12	18.5	0
5	QPSK	12	7	17.09	17.09	17.00		
5	QPSK	12	13	17.06	17.09	17.03		
5	QPSK	25	0	17.09	17.21	17.09	18.5	0
5	16QAM	1	0	17.31	17.46	17.71		
5	16QAM	1	12	17.22	17.40	16.90		
5	16QAM	1	24	17.49	17.58	16.96	18.5	0
5	16QAM	12	0	17.16	17.24	17.21		
5	16QAM	12	7	17.09	17.16	17.17		
5	16QAM	12	13	17.11	17.06	17.09	18.5	0
5	16QAM	25	0	17.03	17.23	17.07		
5	64QAM	1	0	17.43	17.70	17.34		
5	64QAM	1	12	16.94	17.09	17.08	18.5	0
5	64QAM	1	24	17.23	17.27	16.96		
5	64QAM	12	0	17.32	17.17	17.13		
5	64QAM	12	7	17.15	17.06	17.08	18.5	0
5	64QAM	12	13	17.15	17.07	16.98		
5	64QAM	25	0	17.26	17.17	17.00		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.53	16.89	16.90	18.5	0
3	QPSK	1	8	16.95	17.22	16.93		
3	QPSK	1	14	16.98	16.96	16.99		
3	QPSK	8	0	17.13	17.15	17.10	18.5	0
3	QPSK	8	4	17.10	17.10	17.01		
3	QPSK	8	7	17.00	17.07	17.03		
3	QPSK	15	0	17.04	17.07	17.06	18.5	0
3	16QAM	1	0	17.24	17.41	17.35		
3	16QAM	1	8	17.17	17.46	17.29		
3	16QAM	1	14	17.41	17.33	17.30	18.5	0
3	16QAM	8	0	17.26	17.23	17.04		
3	16QAM	8	4	17.11	17.10	16.94		
3	16QAM	8	7	17.02	17.01	17.09	18.5	0
3	16QAM	15	0	17.01	17.06	17.05		
3	64QAM	1	0	16.86	17.24	16.97		
3	64QAM	1	8	16.79	17.14	16.89	18.5	0
3	64QAM	1	14	16.98	16.87	16.80		
3	64QAM	8	0	17.24	17.24	17.08		
3	64QAM	8	4	16.99	17.18	17.17	18.5	0
3	64QAM	8	7	17.09	17.15	17.10		
3	64QAM	15	0	16.93	17.16	17.10		



FCC SAR Test Report

Report No. : FA892801

Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	17.10	17.47	17.36	18.5	0
1.4	QPSK	1	3	17.11	17.09	17.05		
1.4	QPSK	1	5	17.14	16.96	16.90		
1.4	QPSK	3	0	17.07	17.09	16.97		
1.4	QPSK	3	1	17.11	17.11	17.03		
1.4	QPSK	3	3	17.14	17.09	16.99		
1.4	QPSK	6	0	17.07	17.05	16.99	18.5	0
1.4	16QAM	1	0	17.44	17.68	17.55	18.5	0
1.4	16QAM	1	3	17.53	17.79	16.99		
1.4	16QAM	1	5	17.29	17.18	17.14		
1.4	16QAM	3	0	17.12	17.13	17.12		
1.4	16QAM	3	1	17.18	17.08	17.17		
1.4	16QAM	3	3	17.07	17.12	17.13		
1.4	16QAM	6	0	17.11	17.11	17.07	18.5	0
1.4	64QAM	1	0	17.15	17.43	17.39	18.5	0
1.4	64QAM	1	3	17.73	17.70	17.40		
1.4	64QAM	1	5	17.38	17.29	17.33		
1.4	64QAM	3	0	17.29	17.13	17.11		
1.4	64QAM	3	1	17.31	17.33	17.18		
1.4	64QAM	3	3	17.44	17.22	17.03		
1.4	64QAM	6	0	17.15	17.08	17.17	18.5	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	20.17	20.22	20.15		
20	QPSK	1	49	20.11	20.18	20.26	21	0
20	QPSK	1	99	19.91	20.00	20.01		
20	QPSK	50	0	20.17	20.05	20.02		
20	QPSK	50	24	20.23	20.07	20.25	21	0
20	QPSK	50	50	20.16	20.03	20.08		
20	QPSK	100	0	20.17	20.08	20.20		
20	16QAM	1	0	20.18	20.09	19.95	21	0
20	16QAM	1	49	20.23	20.17	20.43		
20	16QAM	1	99	20.28	20.03	20.08		
20	16QAM	50	0	20.20	20.01	19.99	21	0
20	16QAM	50	24	20.23	20.12	20.12		
20	16QAM	50	50	20.16	20.02	19.96		
20	16QAM	100	0	20.12	20.05	19.98	21	0
20	64QAM	1	0	19.99	20.04	20.02		
20	64QAM	1	49	20.33	20.05	20.12		
20	64QAM	1	99	20.30	20.09	20.25	21	0
20	64QAM	50	0	20.12	20.04	19.98		
20	64QAM	50	24	20.21	20.17	20.02		
20	64QAM	50	50	20.12	20.13	20.11	21	0
20	64QAM	100	0	20.18	20.02	20.06		



FCC SAR Test Report

Report No. : FA892801

Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.18	20.22	20.15	21	0
15	QPSK	1	37	20.26	20.07	20.02		
15	QPSK	1	74	20.00	19.86	19.91		
15	QPSK	36	0	20.16	20.08	20.13	21	0
15	QPSK	36	20	20.18	20.10	20.06		
15	QPSK	36	39	20.18	20.08	20.07		
15	QPSK	75	0	20.26	20.02	20.08	21	0
15	16QAM	1	0	20.44	20.27	20.42		
15	16QAM	1	37	20.41	20.28	20.45		
15	16QAM	1	74	20.37	20.30	20.36	21	0
15	16QAM	36	0	20.14	20.05	20.16		
15	16QAM	36	20	20.17	20.12	20.16		
15	16QAM	36	39	20.18	20.06	19.97	21	0
15	16QAM	75	0	20.30	20.13	20.01		
15	64QAM	1	0	20.15	19.89	19.87		
15	64QAM	1	37	20.40	20.11	20.16	21	0
15	64QAM	1	74	19.93	19.91	20.26		
15	64QAM	36	0	20.17	20.05	20.11		
15	64QAM	36	20	20.18	20.12	20.20	21	0
15	64QAM	36	39	20.19	20.07	20.08		
15	64QAM	75	0	20.28	20.13	20.10		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.37	20.46	20.23	21	0
10	QPSK	1	25	20.03	19.94	19.91		
10	QPSK	1	49	20.15	20.09	19.98		
10	QPSK	25	0	19.95	19.94	19.92	21	0
10	QPSK	25	12	20.05	19.87	19.90		
10	QPSK	25	25	20.03	19.83	19.87		
10	QPSK	50	0	19.99	20.04	19.99	21	0
10	16QAM	1	0	20.49	20.47	20.40		
10	16QAM	1	25	20.47	20.39	20.18		
10	16QAM	1	49	20.46	20.39	20.40	21	0
10	16QAM	25	0	19.93	19.89	19.80		
10	16QAM	25	12	19.95	19.92	19.88		
10	16QAM	25	25	20.01	19.82	19.75	21	0
10	16QAM	50	0	19.99	19.94	19.91		
10	64QAM	1	0	20.29	20.40	20.46		
10	64QAM	1	25	20.41	20.34	19.98	21	0
10	64QAM	1	49	20.07	20.26	20.43		
10	64QAM	25	0	19.95	19.92	19.97		
10	64QAM	25	12	20.04	19.87	19.96	21	0
10	64QAM	25	25	20.03	19.88	19.93		
10	64QAM	50	0	20.00	19.98	19.93		



FCC SAR Test Report

Report No. : FA892801

Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.40	20.34	20.40	21	0
5	QPSK	1	12	20.06	19.84	19.73		
5	QPSK	1	24	20.13	19.85	19.90		
5	QPSK	12	0	20.09	19.99	20.03	21	0
5	QPSK	12	7	20.12	19.89	19.95		
5	QPSK	12	13	20.02	19.93	19.88		
5	QPSK	25	0	20.13	19.93	19.97	21	0
5	16QAM	1	0	20.17	19.80	20.02		
5	16QAM	1	12	19.91	19.79	19.87		
5	16QAM	1	24	20.07	19.84	19.87	21	0
5	16QAM	12	0	20.15	20.03	20.09		
5	16QAM	12	7	20.18	20.05	19.96		
5	16QAM	12	13	20.09	19.96	19.89	21	0
5	16QAM	25	0	20.05	19.92	19.79		
5	64QAM	1	0	20.22	20.01	20.11		
5	64QAM	1	12	20.26	20.06	20.06	21	0
5	64QAM	1	24	20.20	20.04	19.95		
5	64QAM	12	0	20.09	19.99	20.06		
5	64QAM	12	7	20.14	20.00	19.98	21	0
5	64QAM	12	13	20.02	19.91	20.02		
5	64QAM	25	0	20.03	19.89	19.89		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	17.77	17.81	17.50		
20	QPSK	1	49	18.00	17.82	17.75	18.5	0
20	QPSK	1	99	17.42	17.41	17.40		
20	QPSK	50	0	17.86	17.81	17.87		
20	QPSK	50	24	17.97	17.83	17.94	18.5	0
20	QPSK	50	50	17.93	17.83	17.96		
20	QPSK	100	0	17.82	17.77	17.76		
20	16QAM	1	0	17.99	18.22	17.71	18.5	0
20	16QAM	1	49	17.98	18.00	18.02		
20	16QAM	1	99	17.27	17.58	17.76		
20	16QAM	50	0	17.86	17.83	17.95	18.5	0
20	16QAM	50	24	18.01	17.92	17.90		
20	16QAM	50	50	17.77	17.88	17.78		
20	16QAM	100	0	17.84	17.79	17.86	18.5	0
20	64QAM	1	0	17.88	17.82	17.68		
20	64QAM	1	49	18.00	17.78	17.78		
20	64QAM	1	99	17.44	17.46	17.68	18.5	0
20	64QAM	50	0	17.88	17.84	17.96		
20	64QAM	50	24	17.97	17.92	17.89		
20	64QAM	50	50	17.83	17.77	17.89	18.5	0
20	64QAM	100	0	17.83	17.81	17.87		



FCC SAR Test Report

Report No. : FA892801

Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	17.88	17.76	17.92	18.5	0
15	QPSK	1	37	17.84	17.74	17.90		
15	QPSK	1	74	17.78	17.75	17.99		
15	QPSK	36	0	18.03	17.96	18.01	18.5	0
15	QPSK	36	20	17.98	18.00	18.04		
15	QPSK	36	39	18.15	17.80	18.11		
15	QPSK	75	0	17.95	17.87	17.98	18.5	0
15	16QAM	1	0	18.36	18.25	18.36		
15	16QAM	1	37	18.32	18.25	18.29		
15	16QAM	1	74	18.13	18.25	17.56	18.5	0
15	16QAM	36	0	17.94	17.88	18.05		
15	16QAM	36	20	18.11	18.03	17.98		
15	16QAM	36	39	17.97	17.96	18.08	18.5	0
15	16QAM	75	0	18.04	17.96	18.07		
15	64QAM	1	0	17.94	18.30	17.92		
15	64QAM	1	37	17.91	18.32	18.32	18.5	0
15	64QAM	1	74	17.56	18.20	17.95		
15	64QAM	36	0	17.93	17.90	18.00		
15	64QAM	36	20	17.97	17.89	18.00	18.5	0
15	64QAM	36	39	17.98	17.87	18.00		
15	64QAM	75	0	18.09	18.03	18.16		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.05	18.14	18.06	18.5	0
10	QPSK	1	25	17.99	18.02	17.94		
10	QPSK	1	49	18.34	18.04	17.80		
10	QPSK	25	0	18.09	17.89	17.96	18.5	0
10	QPSK	25	12	18.07	17.89	17.99		
10	QPSK	25	25	18.15	17.91	18.05		
10	QPSK	50	0	18.03	17.83	17.93	18.5	0
10	16QAM	1	0	18.18	18.07	18.04		
10	16QAM	1	25	18.07	17.98	17.85		
10	16QAM	1	49	18.31	17.92	17.86	18.5	0
10	16QAM	25	0	18.09	17.92	17.92		
10	16QAM	25	12	18.07	17.96	17.94		
10	16QAM	25	25	18.06	17.80	17.98	18.5	0
10	16QAM	50	0	18.03	17.82	17.94		
10	64QAM	1	0	18.23	18.07	18.12		
10	64QAM	1	25	18.36	18.00	18.05	18.5	0
10	64QAM	1	49	18.34	18.16	17.80		
10	64QAM	25	0	18.10	17.90	17.90		
10	64QAM	25	12	18.00	17.88	17.92	18.5	0
10	64QAM	25	25	18.06	17.86	17.95		
10	64QAM	50	0	18.01	17.82	17.98		



FCC SAR Test Report

Report No. : FA892801

Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	18.10	18.21	18.02	18.5	0
5	QPSK	1	12	18.04	17.85	18.03		
5	QPSK	1	24	18.01	17.74	17.79		
5	QPSK	12	0	18.08	17.95	17.97	18.5	0
5	QPSK	12	7	18.06	17.85	17.95		
5	QPSK	12	13	18.02	17.80	17.91		
5	QPSK	25	0	18.05	17.97	18.00	18.5	0
5	16QAM	1	0	18.35	18.47	18.40		
5	16QAM	1	12	18.16	18.30	18.44		
5	16QAM	1	24	18.45	18.35	17.72	18.5	0
5	16QAM	12	0	18.09	18.02	18.11		
5	16QAM	12	7	18.07	17.89	18.07		
5	16QAM	12	13	18.03	17.82	17.98	18.5	0
5	16QAM	25	0	17.99	17.87	18.01		
5	64QAM	1	0	18.03	18.08	18.25		
5	64QAM	1	12	17.94	17.87	18.30	18.5	0
5	64QAM	1	24	18.14	17.94	17.32		
5	64QAM	12	0	18.02	17.95	18.07		
5	64QAM	12	7	18.00	17.89	18.01	18.5	0
5	64QAM	12	13	18.00	17.78	18.02		
5	64QAM	25	0	18.08	17.84	18.02		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	18.01	17.97	18.06	18.5	0
3	QPSK	1	8	18.07	17.89	17.98		
3	QPSK	1	14	17.95	17.96	17.89		
3	QPSK	8	0	18.07	17.99	17.98	18.5	0
3	QPSK	8	4	18.03	17.96	18.01		
3	QPSK	8	7	18.05	17.99	17.99		
3	QPSK	15	0	18.00	17.91	17.91	18.5	0
3	16QAM	1	0	18.41	18.15	18.38		
3	16QAM	1	8	18.19	18.25	18.20		
3	16QAM	1	14	18.07	18.11	18.13	18.5	0
3	16QAM	8	0	18.09	17.95	18.00		
3	16QAM	8	4	18.17	18.06	18.08		
3	16QAM	8	7	18.06	18.02	18.04	18.5	0
3	16QAM	15	0	18.05	17.85	17.94		
3	64QAM	1	0	18.01	18.18	18.40		
3	64QAM	1	8	17.98	18.16	18.45	18.5	0
3	64QAM	1	14	18.37	18.10	18.19		
3	64QAM	8	0	18.07	17.98	18.04		
3	64QAM	8	4	18.14	17.88	17.99	18.5	0
3	64QAM	8	7	17.99	17.85	18.21		
3	64QAM	15	0	17.99	17.92	17.98		



FCC SAR Test Report

Report No. : FA892801

Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	17.71	17.96	18.10	18.5	0
1.4	QPSK	1	3	18.07	17.92	18.19		
1.4	QPSK	1	5	17.97	17.82	17.99		
1.4	QPSK	3	0	18.14	17.95	18.04		
1.4	QPSK	3	1	18.16	17.95	18.06		
1.4	QPSK	3	3	18.05	17.88	18.05		
1.4	QPSK	6	0	17.98	17.93	18.07	18.5	0
1.4	16QAM	1	0	18.21	17.94	17.91	18.5	0
1.4	16QAM	1	3	17.87	17.90	17.89		
1.4	16QAM	1	5	17.86	17.91	17.95		
1.4	16QAM	3	0	18.07	17.84	17.97		
1.4	16QAM	3	1	18.09	17.86	18.02		
1.4	16QAM	3	3	18.00	17.77	17.97		
1.4	16QAM	6	0	18.03	17.96	17.91	18.5	0
1.4	64QAM	1	0	18.08	18.15	18.23	18.5	0
1.4	64QAM	1	3	18.15	18.11	18.18		
1.4	64QAM	1	5	18.05	17.99	18.15		
1.4	64QAM	3	0	17.92	17.98	17.90		
1.4	64QAM	3	1	18.05	17.92	17.88		
1.4	64QAM	3	3	17.91	18.02	17.92		
1.4	64QAM	6	0	18.05	17.94	17.83	18.5	0

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	27710	-		
Frequency (MHz)					2310			
10	QPSK	1	0		21.70		22.5	0
10	QPSK	1	25		21.41			
10	QPSK	1	49		21.75			
10	QPSK	25	0		21.60		22.5	0
10	QPSK	25	12		21.64			
10	QPSK	25	25		21.60			
10	QPSK	50	0		21.64		22.5	0
10	16QAM	1	0		21.91			
10	16QAM	1	25		21.92			
10	16QAM	1	49		21.91		22.5	0
10	16QAM	25	0		20.89			
10	16QAM	25	12		20.81			
10	16QAM	25	25		20.83		22.5	0
10	16QAM	50	0		20.76			
10	64QAM	1	0		21.57		22.5	0
10	64QAM	1	25		21.84			
10	64QAM	1	49		21.76			
10	64QAM	25	0		20.79		22.5	0
10	64QAM	25	12		20.76			
10	64QAM	25	25		20.70			
10	64QAM	50	0		20.68			



FCC SAR Test Report

Report No. : FA892801

Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	21.70	21.56	21.56	22.5	0
5	QPSK	1	12	21.28	21.25	21.29		
5	QPSK	1	24	21.71	21.55	21.62		
5	QPSK	12	0	21.68	21.77	21.74	22.5	0
5	QPSK	12	7	21.65	21.63	21.65		
5	QPSK	12	13	21.66	21.66	21.66		
5	QPSK	25	0	21.58	21.63	21.77	22.5	0
5	16QAM	1	0	21.79	21.66	21.87		
5	16QAM	1	12	21.64	21.54	21.74		
5	16QAM	1	24	21.54	21.77	21.80	22.5	0
5	16QAM	12	0	20.86	20.94	20.86		
5	16QAM	12	7	20.96	20.84	20.78		
5	16QAM	12	13	20.84	20.86	20.80	22.5	0
5	16QAM	25	0	20.72	20.78	20.93		
5	64QAM	1	0	21.81	21.91	21.83		
5	64QAM	1	12	21.72	21.68	21.61	22.5	0
5	64QAM	1	24	21.78	21.70	21.50		
5	64QAM	12	0	20.79	20.89	20.89		
5	64QAM	12	7	20.80	20.77	20.79	22.5	0
5	64QAM	12	13	20.78	20.92	20.91		
5	64QAM	25	0	20.70	20.76	20.89		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	17.65	17.51	17.29		
20	QPSK	1	49	17.40	17.44	17.65	18.5	0
20	QPSK	1	99	17.56	17.82	17.90		
20	QPSK	50	0	17.37	17.28	17.39		
20	QPSK	50	24	17.52	17.54	17.56	18.5	0
20	QPSK	50	50	17.42	17.35	17.53		
20	QPSK	100	0	17.47	17.40	17.51		
20	16QAM	1	0	17.96	17.24	17.78	18.5	0
20	16QAM	1	49	17.93	17.64	17.70		
20	16QAM	1	99	18.03	18.01	17.32		
20	16QAM	50	0	17.40	17.35	17.29	18.5	0
20	16QAM	50	24	17.48	17.42	17.59		
20	16QAM	50	50	17.40	17.32	17.57		
20	16QAM	100	0	17.41	17.40	17.49	18.5	0
20	64QAM	1	0	17.11	17.11	17.77		
20	64QAM	1	49	17.48	16.98	17.40		
20	64QAM	1	99	17.81	17.73	17.53	18.5	0
20	64QAM	50	0	17.34	17.30	17.32		
20	64QAM	50	24	17.40	17.46	17.51		
20	64QAM	50	50	17.39	17.34	17.43	18.5	0
20	64QAM	100	0	17.38	17.45	17.56		



FCC SAR Test Report

Report No. : FA892801

Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	17.51	17.55	17.53	18.5	0
15	QPSK	1	37	17.24	17.64	17.86		
15	QPSK	1	74	17.25	17.44	17.67		
15	QPSK	36	0	17.57	17.40	17.59	18.5	0
15	QPSK	36	20	17.46	17.50	17.49		
15	QPSK	36	39	17.44	17.39	17.49		
15	QPSK	75	0	17.32	17.42	17.51	18.5	0
15	16QAM	1	0	17.62	18.10	18.17		
15	16QAM	1	37	17.48	17.26	17.99		
15	16QAM	1	74	17.72	17.67	17.94	18.5	0
15	16QAM	36	0	17.55	17.43	17.63		
15	16QAM	36	20	17.53	17.52	17.55		
15	16QAM	36	39	17.42	17.34	17.57	18.5	0
15	16QAM	75	0	17.43	17.44	17.47		
15	64QAM	1	0	17.58	17.65	18.23		
15	64QAM	1	37	18.14	17.91	18.31	18.5	0
15	64QAM	1	74	17.40	17.98	18.26		
15	64QAM	36	0	17.66	17.39	17.57		
15	64QAM	36	20	17.56	17.48	17.49	18.5	0
15	64QAM	36	39	17.41	17.34	17.39		
15	64QAM	75	0	17.43	17.42	17.46		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	17.86	17.39	17.50	18.5	0
10	QPSK	1	25	17.37	17.60	17.45		
10	QPSK	1	49	17.56	18.03	17.88		
10	QPSK	25	0	17.58	17.47	17.47	18.5	0
10	QPSK	25	12	17.63	17.69	17.79		
10	QPSK	25	25	17.67	17.61	17.65		
10	QPSK	50	0	17.57	17.58	17.64	18.5	0
10	16QAM	1	0	17.23	17.10	17.14		
10	16QAM	1	25	18.18	18.13	18.21		
10	16QAM	1	49	18.03	17.95	18.33	18.5	0
10	16QAM	25	0	17.58	17.64	17.54		
10	16QAM	25	12	17.66	17.62	17.64		
10	16QAM	25	25	17.66	17.45	17.70	18.5	0
10	16QAM	50	0	17.58	17.54	17.66		
10	64QAM	1	0	17.76	17.12	17.91		
10	64QAM	1	25	18.15	17.78	18.32	18.5	0
10	64QAM	1	49	17.55	17.70	18.20		
10	64QAM	25	0	17.38	17.56	17.57		
10	64QAM	25	12	17.54	17.60	17.73	18.5	0
10	64QAM	25	25	17.60	17.63	17.65		
10	64QAM	50	0	17.57	17.54	17.61		



FCC SAR Test Report

Report No. : FA892801

Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	17.62	17.53	17.73	18.5	0
5	QPSK	1	12	17.39	17.54	17.59		
5	QPSK	1	24	17.52	17.57	17.63		
5	QPSK	12	0	17.72	17.63	17.80	18.5	0
5	QPSK	12	7	17.57	17.58	17.65		
5	QPSK	12	13	17.57	17.57	17.50		
5	QPSK	25	0	17.57	17.61	17.71	18.5	0
5	16QAM	1	0	17.94	18.00	17.78		
5	16QAM	1	12	17.94	17.38	17.60		
5	16QAM	1	24	17.67	17.60	17.84	18.5	0
5	16QAM	12	0	17.79	17.61	17.60		
5	16QAM	12	7	17.56	17.73	17.64		
5	16QAM	12	13	17.59	17.68	17.53	18.5	0
5	16QAM	25	0	17.56	17.59	17.51		
5	64QAM	1	0	17.66	17.67	17.93		
5	64QAM	1	12	17.69	17.39	17.77	18.5	0
5	64QAM	1	24	17.58	17.58	17.39		
5	64QAM	12	0	17.71	17.66	17.75		
5	64QAM	12	7	17.70	17.68	17.66	18.5	0
5	64QAM	12	13	17.63	17.66	17.64		
5	64QAM	25	0	17.56	17.62	17.61		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	17.44	17.36	17.36	18.5	0
3	QPSK	1	8	17.58	17.58	17.39		
3	QPSK	1	14	17.51	17.51	17.38		
3	QPSK	8	0	17.65	17.57	17.56	18.5	0
3	QPSK	8	4	17.61	17.61	17.61		
3	QPSK	8	7	17.49	17.57	17.61		
3	QPSK	15	0	17.66	17.55	17.63	18.5	0
3	16QAM	1	0	17.83	17.55	18.08		
3	16QAM	1	8	18.26	18.28	18.04		
3	16QAM	1	14	17.76	17.92	18.05	18.5	0
3	16QAM	8	0	17.68	17.69	17.60		
3	16QAM	8	4	17.61	17.64	17.56		
3	16QAM	8	7	17.65	17.72	17.53	18.5	0
3	16QAM	15	0	17.75	17.54	17.76		
3	64QAM	1	0	17.57	17.37	17.95		
3	64QAM	1	8	17.97	17.43	17.72	18.5	0
3	64QAM	1	14	17.97	17.56	17.64		
3	64QAM	8	0	17.47	17.59	17.65		
3	64QAM	8	4	17.54	17.66	17.60	18.5	0
3	64QAM	8	7	17.55	17.60	17.59		
3	64QAM	15	0	17.60	17.59	17.57		



FCC SAR Test Report

Report No. : FA892801

Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	17.82	17.28	17.71	18.5	0
1.4	QPSK	1	3	17.73	17.51	17.79		
1.4	QPSK	1	5	17.62	17.48	17.54		
1.4	QPSK	3	0	17.63	17.46	17.56		
1.4	QPSK	3	1	17.63	17.64	17.59		
1.4	QPSK	3	3	17.61	17.60	17.61		
1.4	QPSK	6	0	17.55	17.47	17.52	18.5	0
1.4	16QAM	1	0	17.92	17.74	17.83	18.5	0
1.4	16QAM	1	3	17.76	18.07	18.23		
1.4	16QAM	1	5	17.73	17.29	17.49		
1.4	16QAM	3	0	17.52	17.54	17.62		
1.4	16QAM	3	1	17.49	17.76	17.72		
1.4	16QAM	3	3	17.53	17.64	17.67		
1.4	16QAM	6	0	17.50	17.73	17.74	18.5	0
1.4	64QAM	1	0	18.11	17.50	17.48	18.5	0
1.4	64QAM	1	3	17.69	17.57	17.40		
1.4	64QAM	1	5	17.63	17.57	18.01		
1.4	64QAM	3	0	17.41	17.48	17.69		
1.4	64QAM	3	1	17.94	17.54	17.62		
1.4	64QAM	3	3	17.55	17.68	17.60		
1.4	64QAM	6	0	17.52	17.68	17.66	18.5	0

<Reduced Power Mode for Hotspot On>

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.10	15.82	15.96		
20	QPSK	1	49	15.83	15.18	15.53	16.5	0
20	QPSK	1	99	15.20	15.50	15.14		
20	QPSK	50	0	15.55	15.61	15.75		
20	QPSK	50	24	15.81	15.59	15.77	16.5	0
20	QPSK	50	50	15.52	15.32	15.54		
20	QPSK	100	0	15.59	15.46	15.72		
20	16QAM	1	0	15.62	15.95	15.50	16.5	0
20	16QAM	1	49	15.67	15.45	15.57		
20	16QAM	1	99	15.00	15.28	15.34		
20	16QAM	50	0	15.51	15.73	15.81	16.5	0
20	16QAM	50	24	15.89	15.66	15.91		
20	16QAM	50	50	15.59	15.44	15.59		
20	16QAM	100	0	15.67	15.49	15.67	16.5	0
20	64QAM	1	0	15.48	15.25	15.65		
20	64QAM	1	49	15.64	15.57	15.48		
20	64QAM	1	99	15.52	15.28	15.42	16.5	0
20	64QAM	50	0	15.74	15.64	15.79		
20	64QAM	50	24	15.79	15.64	15.85		
20	64QAM	50	50	15.50	15.43	15.64	16.5	0
20	64QAM	100	0	15.55	15.48	15.65		



FCC SAR Test Report

Report No. : FA892801

Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	15.39	15.38	15.60	16.5	0
15	QPSK	1	37	15.58	15.63	15.76		
15	QPSK	1	74	15.65	15.56	15.71		
15	QPSK	36	0	15.68	15.67	15.71	16.5	0
15	QPSK	36	20	15.74	15.62	15.82		
15	QPSK	36	39	15.71	15.57	15.75		
15	QPSK	75	0	15.54	15.53	15.75	16.5	0
15	16QAM	1	0	15.99	16.02	16.01		
15	16QAM	1	37	15.83	16.10	16.13		
15	16QAM	1	74	15.54	15.64	15.86	16.5	0
15	16QAM	36	0	15.73	15.52	15.70		
15	16QAM	36	20	15.63	15.64	15.78		
15	16QAM	36	39	15.56	15.50	15.78	16.5	0
15	16QAM	75	0	15.60	15.55	15.75		
15	64QAM	1	0	15.88	16.13	15.55		
15	64QAM	1	37	15.32	15.38	15.77	16.5	0
15	64QAM	1	74	15.90	15.52	15.83		
15	64QAM	36	0	15.63	15.55	15.67		
15	64QAM	36	20	15.60	15.61	15.86	16.5	0
15	64QAM	36	39	15.54	15.48	15.66		
15	64QAM	75	0	15.60	15.56	15.79		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.60	15.65	15.80	16.5	0
10	QPSK	1	25	15.68	16.04	15.70		
10	QPSK	1	49	15.71	15.85	15.77		
10	QPSK	25	0	15.69	15.74	15.76	16.5	0
10	QPSK	25	12	15.60	15.75	15.72		
10	QPSK	25	25	15.72	15.79	15.66		
10	QPSK	50	0	15.57	15.69	15.65	16.5	0
10	16QAM	1	0	15.88	15.79	16.16		
10	16QAM	1	25	15.70	15.82	16.14		
10	16QAM	1	49	16.12	16.09	15.70	16.5	0
10	16QAM	25	0	15.72	15.69	15.80		
10	16QAM	25	12	15.65	15.69	15.72		
10	16QAM	25	25	15.74	15.77	15.71	16.5	0
10	16QAM	50	0	15.66	15.79	15.63		
10	64QAM	1	0	15.89	16.14	16.19		
10	64QAM	1	25	15.64	15.80	16.21	16.5	0
10	64QAM	1	49	15.92	15.77	15.98		
10	64QAM	25	0	15.63	15.71	15.79		
10	64QAM	25	12	15.68	15.72	15.64	16.5	0
10	64QAM	25	25	15.66	15.69	15.66		
10	64QAM	50	0	15.64	15.63	15.67		



FCC SAR Test Report

Report No. : FA892801

Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.76	15.80	15.65	16.5	0
5	QPSK	1	12	15.77	15.81	15.75		
5	QPSK	1	24	15.60	15.76	15.76		
5	QPSK	12	0	15.73	15.79	15.87	16.5	0
5	QPSK	12	7	15.72	15.79	15.72		
5	QPSK	12	13	15.64	15.68	15.70		
5	QPSK	25	0	15.73	15.80	15.75	16.5	0
5	16QAM	1	0	16.10	16.16	15.91		
5	16QAM	1	12	15.88	15.71	15.67		
5	16QAM	1	24	15.69	15.97	15.86	16.5	0
5	16QAM	12	0	15.79	15.83	15.84		
5	16QAM	12	7	15.77	15.79	15.75		
5	16QAM	12	13	15.63	15.75	15.67	16.5	0
5	16QAM	25	0	15.79	15.76	15.73		
5	64QAM	1	0	15.94	15.98	16.02		
5	64QAM	1	12	15.73	15.85	15.82	16.5	0
5	64QAM	1	24	15.81	15.85	15.88		
5	64QAM	12	0	15.74	15.85	15.88		
5	64QAM	12	7	15.72	15.74	15.72	16.5	0
5	64QAM	12	13	15.62	15.73	15.77		
5	64QAM	25	0	15.78	15.82	15.73		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.01	15.65	15.30	16.5	0
3	QPSK	1	8	15.88	15.62	15.76		
3	QPSK	1	14	15.73	15.65	15.74		
3	QPSK	8	0	15.69	15.71	15.71	16.5	0
3	QPSK	8	4	15.67	15.71	15.78		
3	QPSK	8	7	15.69	15.73	15.79		
3	QPSK	15	0	15.62	15.66	15.76	16.5	0
3	16QAM	1	0	16.11	16.16	15.95		
3	16QAM	1	8	16.00	16.10	15.94		
3	16QAM	1	14	15.97	15.74	15.94	16.5	0
3	16QAM	8	0	15.70	15.73	15.79		
3	16QAM	8	4	15.69	15.72	15.80		
3	16QAM	8	7	15.70	15.63	15.70	16.5	0
3	16QAM	15	0	15.65	15.77	15.80		
3	64QAM	1	0	15.67	15.84	15.75		
3	64QAM	1	8	15.86	15.89	15.96	16.5	0
3	64QAM	1	14	15.85	15.78	15.77		
3	64QAM	8	0	15.77	15.93	15.82		
3	64QAM	8	4	15.79	15.79	15.85	16.5	0
3	64QAM	8	7	15.70	15.81	15.73		
3	64QAM	15	0	15.65	15.71	15.76		



FCC SAR Test Report

Report No. : FA892801

Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.65	15.60	15.50	16.5	0
1.4	QPSK	1	3	15.58	15.79	15.73		
1.4	QPSK	1	5	15.52	15.71	15.61		
1.4	QPSK	3	0	15.53	15.70	15.64		
1.4	QPSK	3	1	15.65	15.71	15.74		
1.4	QPSK	3	3	15.61	15.63	15.73		
1.4	QPSK	6	0	15.53	15.67	15.70	16.5	0
1.4	16QAM	1	0	15.87	16.37	16.04	16.5	0
1.4	16QAM	1	3	16.09	15.81	15.88		
1.4	16QAM	1	5	15.66	15.69	16.36		
1.4	16QAM	3	0	15.66	15.69	15.55		
1.4	16QAM	3	1	15.71	15.70	15.66		
1.4	16QAM	3	3	15.65	15.61	15.69		
1.4	16QAM	6	0	15.97	15.74	15.82	16.5	0
1.4	64QAM	1	0	15.69	15.81	15.57	16.5	0
1.4	64QAM	1	3	15.78	15.90	15.62		
1.4	64QAM	1	5	15.77	15.81	15.58		
1.4	64QAM	3	0	15.56	15.84	15.69		
1.4	64QAM	3	1	15.66	15.86	15.69		
1.4	64QAM	3	3	15.52	15.53	15.75		
1.4	64QAM	6	0	15.65	15.69	15.74	16.5	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	16.5	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	15.58	15.52	15.80		
20	QPSK	1	49	15.58	15.46	15.59	16.5	0
20	QPSK	1	99	15.12	15.36	15.20		
20	QPSK	50	0	15.36	15.33	15.41		
20	QPSK	50	24	15.46	15.45	15.41	16.5	0
20	QPSK	50	50	15.21	15.33	15.25		
20	QPSK	100	0	15.39	15.35	15.26		
20	16QAM	1	0	15.18	15.24	15.71	16.5	0
20	16QAM	1	49	15.87	15.30	16.07		
20	16QAM	1	99	15.86	15.59	15.22		
20	16QAM	50	0	15.36	15.45	15.46	16.5	0
20	16QAM	50	24	15.54	15.55	15.33		
20	16QAM	50	50	15.29	15.40	15.20		
20	16QAM	100	0	15.45	15.44	15.25	16.5	0
20	64QAM	1	0	15.31	15.39	15.32		
20	64QAM	1	49	15.53	15.47	15.24		
20	64QAM	1	99	15.38	15.51	15.20	16.5	0
20	64QAM	50	0	15.43	15.37	15.37		
20	64QAM	50	24	15.44	15.52	15.29		
20	64QAM	50	50	15.28	15.43	15.20	16.5	0
20	64QAM	100	0	15.41	15.29	15.25		



FCC SAR Test Report

Report No. : FA892801

Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	15.65	15.01	15.52	16.5	0
15	QPSK	1	37	15.37	15.41	15.34		
15	QPSK	1	74	15.31	15.50	15.11		
15	QPSK	36	0	15.52	15.50	15.39	16.5	0
15	QPSK	36	20	15.54	15.50	15.43		
15	QPSK	36	39	15.28	15.28	15.33		
15	QPSK	75	0	15.33	15.37	15.38	16.5	0
15	16QAM	1	0	15.97	16.04	15.95		
15	16QAM	1	37	15.46	15.47	15.21		
15	16QAM	1	74	15.78	15.51	15.71	16.5	0
15	16QAM	36	0	15.51	15.56	15.40		
15	16QAM	36	20	15.52	15.46	15.42		
15	16QAM	36	39	15.35	15.46	15.33	16.5	0
15	16QAM	75	0	15.34	15.56	15.34		
15	64QAM	1	0	15.75	15.57	15.41		
15	64QAM	1	37	15.62	15.68	15.93	16.5	0
15	64QAM	1	74	15.17	15.50	15.28		
15	64QAM	36	0	15.52	15.48	15.31		
15	64QAM	36	20	15.52	15.36	15.52	16.5	0
15	64QAM	36	39	15.35	15.35	15.27		
15	64QAM	75	0	15.41	15.41	15.32		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	15.31	15.30	15.29	16.5	0
10	QPSK	1	25	15.52	15.57	15.59		
10	QPSK	1	49	15.98	15.35	15.83		
10	QPSK	25	0	15.59	15.62	15.57	16.5	0
10	QPSK	25	12	15.56	15.55	15.57		
10	QPSK	25	25	15.73	15.70	15.66		
10	QPSK	50	0	15.56	15.70	15.60	16.5	0
10	16QAM	1	0	16.01	16.07	16.09		
10	16QAM	1	25	16.08	16.08	15.74		
10	16QAM	1	49	16.01	15.65	16.38	16.5	0
10	16QAM	25	0	15.64	15.53	15.55		
10	16QAM	25	12	15.54	15.62	15.60		
10	16QAM	25	25	15.74	15.64	15.69	16.5	0
10	16QAM	50	0	15.67	15.65	15.55		
10	64QAM	1	0	15.94	15.86	15.64		
10	64QAM	1	25	15.87	15.61	15.77	16.5	0
10	64QAM	1	49	16.19	15.72	16.05		
10	64QAM	25	0	15.70	15.66	15.61		
10	64QAM	25	12	15.66	15.62	15.62	16.5	0
10	64QAM	25	25	15.71	15.82	15.64		
10	64QAM	50	0	15.64	15.70	15.67		



FCC SAR Test Report

Report No. : FA892801

Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	15.15	15.65	15.50	16.5	0
5	QPSK	1	12	15.52	15.62	15.51		
5	QPSK	1	24	15.57	15.55	15.54		
5	QPSK	12	0	15.60	15.67	15.59	16.5	0
5	QPSK	12	7	15.60	15.56	15.58		
5	QPSK	12	13	15.58	15.64	15.53		
5	QPSK	25	0	15.62	15.73	15.64	16.5	0
5	16QAM	1	0	15.63	15.68	15.78		
5	16QAM	1	12	15.49	15.41	15.41		
5	16QAM	1	24	15.39	15.81	15.60	16.5	0
5	16QAM	12	0	15.77	15.73	15.64		
5	16QAM	12	7	15.76	15.73	15.62		
5	16QAM	12	13	15.73	15.64	15.57	16.5	0
5	16QAM	25	0	15.61	15.70	15.61		
5	64QAM	1	0	15.78	15.82	15.77		
5	64QAM	1	12	15.68	15.64	15.59	16.5	0
5	64QAM	1	24	15.70	15.61	15.63		
5	64QAM	12	0	15.69	15.71	15.58		
5	64QAM	12	7	15.68	15.62	15.64	16.5	0
5	64QAM	12	13	15.67	15.63	15.57		
5	64QAM	25	0	15.68	15.60	15.52		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	15.97	15.56	15.80	16.5	0
3	QPSK	1	8	15.50	15.58	15.55		
3	QPSK	1	14	15.48	15.57	15.50		
3	QPSK	8	0	15.62	15.68	15.58	16.5	0
3	QPSK	8	4	15.57	15.61	15.57		
3	QPSK	8	7	15.61	15.61	15.50		
3	QPSK	15	0	15.56	15.58	15.52	16.5	0
3	16QAM	1	0	16.12	15.67	15.67		
3	16QAM	1	8	15.94	15.60	15.46		
3	16QAM	1	14	16.28	15.77	15.71	16.5	0
3	16QAM	8	0	15.71	15.65	15.67		
3	16QAM	8	4	15.44	15.75	15.74		
3	16QAM	8	7	15.54	15.53	15.69	16.5	0
3	16QAM	15	0	15.48	15.52	15.49		
3	64QAM	1	0	15.99	15.58	15.68		
3	64QAM	1	8	15.93	15.79	15.57	16.5	0
3	64QAM	1	14	15.65	15.68	15.63		
3	64QAM	8	0	15.61	15.67	15.66		
3	64QAM	8	4	15.59	15.66	15.57	16.5	0
3	64QAM	8	7	15.61	15.62	15.75		
3	64QAM	15	0	15.47	15.61	15.59		



FCC SAR Test Report

Report No. : FA892801

Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	15.78	15.80	15.65	16.5	0
1.4	QPSK	1	3	15.72	15.55	15.60		
1.4	QPSK	1	5	15.52	15.55	15.48		
1.4	QPSK	3	0	15.49	15.49	15.53		
1.4	QPSK	3	1	15.51	15.62	15.49		
1.4	QPSK	3	3	15.53	15.50	15.48		
1.4	QPSK	6	0	15.56	15.55	15.50	16.5	0
1.4	16QAM	1	0	15.65	16.01	15.75	16.5	0
1.4	16QAM	1	3	15.75	15.94	15.85		
1.4	16QAM	1	5	15.42	15.80	15.67		
1.4	16QAM	3	0	15.66	15.69	15.55		
1.4	16QAM	3	1	15.66	15.57	15.76		
1.4	16QAM	3	3	15.55	15.63	15.59		
1.4	16QAM	6	0	15.59	15.73	15.60	16.5	0
1.4	64QAM	1	0	16.08	15.69	16.02	16.5	0
1.4	64QAM	1	3	16.01	16.03	15.59		
1.4	64QAM	1	5	15.70	15.56	15.53		
1.4	64QAM	3	0	15.71	15.86	15.53		
1.4	64QAM	3	1	15.64	15.57	15.68		
1.4	64QAM	3	3	15.63	15.64	15.42		
1.4	64QAM	6	0	15.51	15.54	15.55	16.5	0

<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.98	18.23	18.20		
20	QPSK	1	49	18.36	18.21	18.30	19.5	0
20	QPSK	1	99	18.03	18.08	18.22		
20	QPSK	50	0	18.18	18.21	18.31		
20	QPSK	50	24	18.37	18.24	18.28	19.5	0
20	QPSK	50	50	18.25	18.22	18.32		
20	QPSK	100	0	18.34	18.22	18.32		
20	16QAM	1	0	18.57	18.40	18.34	19.5	0
20	16QAM	1	49	18.66	18.57	18.65		
20	16QAM	1	99	18.56	18.35	18.39		
20	16QAM	50	0	18.30	18.24	18.15	19.5	0
20	16QAM	50	24	18.41	18.27	18.24		
20	16QAM	50	50	18.32	18.23	18.17		
20	16QAM	100	0	18.31	18.22	18.16	19.5	0
20	64QAM	1	0	18.40	18.27	18.19		
20	64QAM	1	49	18.50	18.44	18.38		
20	64QAM	1	99	18.42	18.27	18.27	19.5	0
20	64QAM	50	0	18.29	18.21	18.11		
20	64QAM	50	24	18.38	18.24	18.22		
20	64QAM	50	50	18.31	18.21	18.18	19.5	0
20	64QAM	100	0	18.31	18.23	18.17		



FCC SAR Test Report

Report No. : FA892801

Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.90	17.92	17.83	19.5	0
15	QPSK	1	37	18.37	18.26	18.20		
15	QPSK	1	74	18.19	18.06	18.10		
15	QPSK	36	0	18.30	18.27	18.21	19.5	0
15	QPSK	36	20	18.39	18.30	18.24		
15	QPSK	36	39	18.40	18.27	18.24		
15	QPSK	75	0	18.37	18.23	18.18	19.5	0
15	16QAM	1	0	18.62	18.43	18.42		
15	16QAM	1	37	18.56	18.53	18.51		
15	16QAM	1	74	18.65	18.34	18.45	19.5	0
15	16QAM	36	0	18.32	18.29	18.28		
15	16QAM	36	20	18.35	18.32	18.25		
15	16QAM	36	39	18.40	18.29	18.22	19.5	0
15	16QAM	75	0	18.42	18.24	18.17		
15	64QAM	1	0	18.49	18.30	18.26		
15	64QAM	1	37	18.50	18.39	18.53	19.5	0
15	64QAM	1	74	18.52	18.28	18.32		
15	64QAM	36	0	18.31	18.28	18.26		
15	64QAM	36	20	18.38	18.32	18.25	19.5	0
15	64QAM	36	39	18.39	18.27	18.24		
15	64QAM	75	0	18.40	18.24	18.16		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.13	18.10	18.06	19.5	0
10	QPSK	1	25	18.13	18.07	17.95		
10	QPSK	1	49	18.28	18.23	18.13		
10	QPSK	25	0	18.19	18.10	18.03	19.5	0
10	QPSK	25	12	18.21	18.07	18.09		
10	QPSK	25	25	18.24	18.06	18.05		
10	QPSK	50	0	18.21	18.11	18.06	19.5	0
10	16QAM	1	0	18.62	18.60	18.54		
10	16QAM	1	25	18.53	18.38	18.40		
10	16QAM	1	49	18.64	18.55	18.46	19.5	0
10	16QAM	25	0	18.13	18.06	18.03		
10	16QAM	25	12	18.20	18.10	18.04		
10	16QAM	25	25	18.24	18.05	18.00	19.5	0
10	16QAM	50	0	18.19	18.09	18.07		
10	64QAM	1	0	18.59	18.43	18.40		
10	64QAM	1	25	18.38	18.25	18.25	19.5	0
10	64QAM	1	49	18.52	18.39	18.37		
10	64QAM	25	0	18.19	18.10	18.05		
10	64QAM	25	12	18.20	18.08	18.09	19.5	0
10	64QAM	25	25	18.29	18.06	18.05		
10	64QAM	50	0	18.22	18.08	18.05		



FCC SAR Test Report

Report No. : FA892801

Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.86	17.88	17.82	19.5	0
5	QPSK	1	12	18.17	18.03	17.96		
5	QPSK	1	24	18.18	18.03	18.03		
5	QPSK	12	0	18.28	18.16	18.10	19.5	0
5	QPSK	12	7	18.27	18.16	18.10		
5	QPSK	12	13	18.20	18.08	18.05		
5	QPSK	25	0	18.30	18.11	18.04	19.5	0
5	16QAM	1	0	18.53	18.40	18.34		
5	16QAM	1	12	18.49	18.33	18.26		
5	16QAM	1	24	18.50	18.34	18.22	19.5	0
5	16QAM	12	0	18.33	18.17	18.12		
5	16QAM	12	7	18.35	18.19	18.15		
5	16QAM	12	13	18.22	18.11	18.09	19.5	0
5	16QAM	25	0	18.22	18.11	18.06		
5	64QAM	1	0	18.39	18.25	18.25		
5	64QAM	1	12	18.39	18.18	18.19	19.5	0
5	64QAM	1	24	18.35	18.15	18.15		
5	64QAM	12	0	18.31	18.16	18.14		
5	64QAM	12	7	18.30	18.16	18.13	19.5	0
5	64QAM	12	13	18.20	18.10	18.07		
5	64QAM	25	0	18.29	18.11	18.07		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	15.64	15.64	15.49		
20	QPSK	1	49	16.10	15.94	15.73	16.5	0
20	QPSK	1	99	15.45	15.27	15.32	16.5	0
20	QPSK	50	0	15.64	15.90	15.90		
20	QPSK	50	24	15.95	15.94	15.83		
20	QPSK	50	50	15.82	15.84	15.84		
20	QPSK	100	0	16.00	15.92	16.03	16.5	0
20	16QAM	1	0	16.18	15.82	15.73		
20	16QAM	1	49	15.79	15.83	16.11		
20	16QAM	1	99	15.43	15.47	15.24	16.5	0
20	16QAM	50	0	15.84	15.86	16.03		
20	16QAM	50	24	15.94	15.88	15.88		
20	16QAM	50	50	16.07	15.87	15.89		
20	16QAM	100	0	15.85	15.89	15.94	16.5	0
20	64QAM	1	0	16.13	15.93	15.75		
20	64QAM	1	49	16.03	15.95	16.30		
20	64QAM	1	99	15.60	15.52	15.70	16.5	0
20	64QAM	50	0	15.99	15.85	15.72		
20	64QAM	50	24	16.02	15.89	15.86		
20	64QAM	50	50	15.83	15.82	15.87		
20	64QAM	100	0	15.91	15.86	15.91		



FCC SAR Test Report

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Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	15.89	15.74	15.93	16.5	0
15	QPSK	1	37	15.60	15.76	15.88		
15	QPSK	1	74	15.63	15.75	15.19		
15	QPSK	36	0	15.97	15.70	15.98	16.5	0
15	QPSK	36	20	15.86	16.03	16.04		
15	QPSK	36	39	16.04	15.84	16.09		
15	QPSK	75	0	15.77	15.92	15.96	16.5	0
15	16QAM	1	0	16.12	16.21	16.19		
15	16QAM	1	37	16.21	16.42	16.44		
15	16QAM	1	74	15.75	16.09	15.54	16.5	0
15	16QAM	36	0	15.98	15.90	15.94		
15	16QAM	36	20	16.05	15.94	15.95		
15	16QAM	36	39	15.81	15.97	16.04	16.5	0
15	16QAM	75	0	16.11	15.99	16.03		
15	64QAM	1	0	15.93	15.90	16.09		
15	64QAM	1	37	15.58	16.12	15.83	16.5	0
15	64QAM	1	74	15.45	16.21	15.67		
15	64QAM	36	0	16.00	15.97	15.97		
15	64QAM	36	20	15.89	15.91	15.87	16.5	0
15	64QAM	36	39	16.03	15.94	15.99		
15	64QAM	75	0	16.13	16.00	16.05		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	16.20	16.07	16.13	16.5	0
10	QPSK	1	25	16.25	15.73	15.94		
10	QPSK	1	49	16.10	16.06	15.35		
10	QPSK	25	0	16.32	16.05	15.96	16.5	0
10	QPSK	25	12	16.21	16.05	16.08		
10	QPSK	25	25	16.05	15.94	16.13		
10	QPSK	50	0	16.16	15.97	15.92	16.5	0
10	16QAM	1	0	16.26	16.44	16.20		
10	16QAM	1	25	16.04	16.40	16.26		
10	16QAM	1	49	16.31	16.42	15.80	16.5	0
10	16QAM	25	0	16.05	16.01	16.02		
10	16QAM	25	12	16.12	15.96	15.98		
10	16QAM	25	25	15.96	15.91	16.07	16.5	0
10	16QAM	50	0	16.06	16.07	16.06		
10	64QAM	1	0	16.14	16.15	16.12		
10	64QAM	1	25	16.09	15.91	15.78	16.5	0
10	64QAM	1	49	16.23	16.40	15.78		
10	64QAM	25	0	15.92	15.93	16.01		
10	64QAM	25	12	15.91	16.02	16.02	16.5	0
10	64QAM	25	25	15.93	15.91	16.15		
10	64QAM	50	0	15.99	15.94	16.01		



FCC SAR Test Report

Report No. : FA892801

Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	16.14	16.07	16.20	16.5	0
5	QPSK	1	12	16.27	16.13	16.09		
5	QPSK	1	24	15.91	15.84	15.94		
5	QPSK	12	0	15.82	15.86	16.01	16.5	0
5	QPSK	12	7	16.28	15.87	15.93		
5	QPSK	12	13	15.72	16.07	16.04		
5	QPSK	25	0	15.86	15.98	16.07	16.5	0
5	16QAM	1	0	16.50	16.43	16.23		
5	16QAM	1	12	15.99	16.17	16.13		
5	16QAM	1	24	16.36	16.03	15.99	16.5	0
5	16QAM	12	0	16.10	16.09	15.99		
5	16QAM	12	7	16.05	16.00	16.11		
5	16QAM	12	13	15.99	15.96	16.05	16.5	0
5	16QAM	25	0	16.11	16.01	16.09		
5	64QAM	1	0	16.09	16.34	16.46		
5	64QAM	1	12	15.96	16.20	15.92	16.5	0
5	64QAM	1	24	15.83	16.22	15.50		
5	64QAM	12	0	15.99	16.05	16.13		
5	64QAM	12	7	16.02	15.95	16.04	16.5	0
5	64QAM	12	13	15.97	15.92	16.01		
5	64QAM	25	0	15.97	15.97	16.06		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	16.23	16.02	16.15	16.5	0
3	QPSK	1	8	15.98	15.73	16.11		
3	QPSK	1	14	15.79	15.67	16.12		
3	QPSK	8	0	16.39	15.79	16.06	16.5	0
3	QPSK	8	4	16.04	16.13	16.07		
3	QPSK	8	7	15.83	16.02	16.09		
3	QPSK	15	0	16.31	15.74	15.99	16.5	0
3	16QAM	1	0	16.47	16.42	16.28		
3	16QAM	1	8	16.14	16.07	16.30		
3	16QAM	1	14	16.39	16.20	15.91	16.5	0
3	16QAM	8	0	15.96	15.93	16.05		
3	16QAM	8	4	16.09	16.04	16.14		
3	16QAM	8	7	15.91	16.00	16.03	16.5	0
3	16QAM	15	0	16.09	15.87	16.05		
3	64QAM	1	0	16.46	16.15	16.38		
3	64QAM	1	8	16.11	16.39	16.40	16.5	0
3	64QAM	1	14	16.22	16.01	15.83		
3	64QAM	8	0	16.06	16.05	16.13		
3	64QAM	8	4	16.09	16.04	16.16	16.5	0
3	64QAM	8	7	16.04	16.04	16.01		
3	64QAM	15	0	16.02	15.90	16.10		



FCC SAR Test Report

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Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	16.25	16.03	16.17	16.5	0
1.4	QPSK	1	3	16.41	16.10	16.14		
1.4	QPSK	1	5	16.24	16.11	16.01		
1.4	QPSK	3	0	16.27	16.08	15.97		
1.4	QPSK	3	1	16.34	15.79	16.07		
1.4	QPSK	3	3	15.81	15.73	16.01		
1.4	QPSK	6	0	16.27	16.07	16.06	16.5	0
1.4	16QAM	1	0	16.43	16.43	16.37	16.5	0
1.4	16QAM	1	3	15.88	16.41	16.34		
1.4	16QAM	1	5	16.12	16.19	16.36		
1.4	16QAM	3	0	16.08	15.90	15.90		
1.4	16QAM	3	1	16.04	15.88	16.03		
1.4	16QAM	3	3	15.92	15.83	15.76		
1.4	16QAM	6	0	16.16	16.10	16.07	16.5	0
1.4	64QAM	1	0	15.99	16.14	16.49	16.5	0
1.4	64QAM	1	3	15.84	16.39	16.25		
1.4	64QAM	1	5	16.01	16.30	16.19		
1.4	64QAM	3	0	15.97	15.91	16.08		
1.4	64QAM	3	1	15.91	16.08	16.18		
1.4	64QAM	3	3	15.92	15.94	15.98		
1.4	64QAM	6	0	16.06	15.89	15.89	16.5	0

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	27710	-	22.5	0
Frequency (MHz)					2310			
10	QPSK	1	0		21.70			
10	QPSK	1	25		21.41		22.5	0
10	QPSK	1	49		21.75			
10	QPSK	25	0		21.60			
10	QPSK	25	12		21.64		22.5	0
10	QPSK	25	25		21.60			
10	QPSK	50	0		21.64			
10	16QAM	1	0		21.91		22.5	0
10	16QAM	1	25		21.92			
10	16QAM	1	49		21.91			
10	16QAM	25	0		20.89		22.5	0
10	16QAM	25	12		20.81			
10	16QAM	25	25		20.83			
10	16QAM	50	0		20.76		22.5	0
10	64QAM	1	0		21.57			
10	64QAM	1	25		21.84			
10	64QAM	1	49		21.76		22.5	0
10	64QAM	25	0		20.79			
10	64QAM	25	12		20.76			
10	64QAM	25	25		20.70		22.5	0
10	64QAM	50	0		20.68			



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Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	21.70	21.56	21.56	22.5	0
5	QPSK	1	12	21.28	21.25	21.29		
5	QPSK	1	24	21.71	21.55	21.62		
5	QPSK	12	0	21.68	21.77	21.74	22.5	0
5	QPSK	12	7	21.65	21.63	21.65		
5	QPSK	12	13	21.66	21.66	21.66		
5	QPSK	25	0	21.58	21.63	21.77	22.5	0
5	16QAM	1	0	21.79	21.66	21.87		
5	16QAM	1	12	21.64	21.54	21.74		
5	16QAM	1	24	21.54	21.77	21.80	22.5	0
5	16QAM	12	0	20.86	20.94	20.86		
5	16QAM	12	7	20.96	20.84	20.78		
5	16QAM	12	13	20.84	20.86	20.80	22.5	0
5	16QAM	25	0	20.72	20.78	20.93		
5	64QAM	1	0	21.81	21.91	21.83		
5	64QAM	1	12	21.72	21.68	21.61	22.5	0
5	64QAM	1	24	21.78	21.70	21.50		
5	64QAM	12	0	20.79	20.89	20.89		
5	64QAM	12	7	20.80	20.77	20.79	22.5	0
5	64QAM	12	13	20.78	20.92	20.91		
5	64QAM	25	0	20.70	20.76	20.89		

<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	16.5	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	15.59	15.78	15.75		
20	QPSK	1	49	15.70	16.21	16.28	16.5	0
20	QPSK	1	99	15.67	16.20	16.30		
20	QPSK	50	0	15.88	15.80	15.96		
20	QPSK	50	24	15.94	15.98	16.02	16.5	0
20	QPSK	50	50	15.92	15.91	16.00		
20	QPSK	100	0	15.76	15.86	15.95		
20	16QAM	1	0	16.47	15.98	16.03	16.5	0
20	16QAM	1	49	16.44	16.42	15.89		
20	16QAM	1	99	16.39	16.41	16.31		
20	16QAM	50	0	15.94	15.87	15.92	16.5	0
20	16QAM	50	24	15.91	15.93	16.04		
20	16QAM	50	50	15.88	15.86	16.03		
20	16QAM	100	0	15.87	15.89	15.99	16.5	0
20	64QAM	1	0	16.22	15.58	15.68		
20	64QAM	1	49	15.87	15.79	15.92		
20	64QAM	1	99	16.17	16.19	15.85	16.5	0
20	64QAM	50	0	15.72	15.86	15.94		
20	64QAM	50	24	15.91	15.90	15.99		
20	64QAM	50	50	15.94	15.80	16.05	16.5	0
20	64QAM	100	0	15.91	15.90	16.04		



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Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	15.90	16.03	16.16	16.5	0
15	QPSK	1	37	15.83	15.92	16.43		
15	QPSK	1	74	16.10	15.92	16.21		
15	QPSK	36	0	16.10	15.96	16.03	16.5	0
15	QPSK	36	20	15.98	16.00	16.02		
15	QPSK	36	39	15.86	15.75	16.02		
15	QPSK	75	0	15.86	15.91	15.95	16.5	0
15	16QAM	1	0	16.26	16.46	16.42		
15	16QAM	1	37	16.30	15.88	16.33		
15	16QAM	1	74	16.31	16.20	16.41	16.5	0
15	16QAM	36	0	16.05	15.98	16.02		
15	16QAM	36	20	15.96	16.04	16.00		
15	16QAM	36	39	15.98	15.91	15.88	16.5	0
15	16QAM	75	0	15.91	15.92	15.95		
15	64QAM	1	0	16.11	16.11	16.18		
15	64QAM	1	37	15.87	16.18	16.35	16.5	0
15	64QAM	1	74	16.03	16.18	16.12		
15	64QAM	36	0	15.99	15.93	16.08		
15	64QAM	36	20	15.91	15.95	15.97	16.5	0
15	64QAM	36	39	15.82	15.72	15.96		
15	64QAM	75	0	15.82	15.92	16.04		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.54	16.30	15.54	16.5	0
10	QPSK	1	25	15.76	16.14	15.73		
10	QPSK	1	49	15.85	16.43	16.47		
10	QPSK	25	0	16.00	16.05	16.01	16.5	0
10	QPSK	25	12	16.19	16.16	16.25		
10	QPSK	25	25	16.11	16.08	16.22		
10	QPSK	50	0	16.13	16.04	16.20	16.5	0
10	16QAM	1	0	15.89	15.68	15.64		
10	16QAM	1	25	16.02	16.37	16.38		
10	16QAM	1	49	15.85	16.30	16.45	16.5	0
10	16QAM	25	0	16.12	16.05	16.02		
10	16QAM	25	12	16.20	16.16	16.13		
10	16QAM	25	25	16.14	16.17	16.05	16.5	0
10	16QAM	50	0	16.18	16.05	16.17		
10	64QAM	1	0	16.25	15.53	15.66		
10	64QAM	1	25	16.30	16.11	16.42	16.5	0
10	64QAM	1	49	16.12	16.35	16.35		
10	64QAM	25	0	16.02	16.06	15.98		
10	64QAM	25	12	16.19	16.21	16.10	16.5	0
10	64QAM	25	25	16.10	16.22	16.17		
10	64QAM	50	0	16.07	16.11	16.15		



FCC SAR Test Report

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Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.18	16.07	16.13	16.5	0
5	QPSK	1	12	15.95	16.15	16.00		
5	QPSK	1	24	16.07	16.10	16.13		
5	QPSK	12	0	16.21	16.18	16.15	16.5	0
5	QPSK	12	7	16.07	16.14	16.12		
5	QPSK	12	13	16.08	16.02	16.10		
5	QPSK	25	0	16.08	16.20	16.19	16.5	0
5	16QAM	1	0	16.35	16.37	16.42		
5	16QAM	1	12	16.45	16.28	16.49		
5	16QAM	1	24	16.23	16.49	16.45	16.5	0
5	16QAM	12	0	16.17	16.15	16.29		
5	16QAM	12	7	16.06	16.28	16.11		
5	16QAM	12	13	16.03	16.20	16.21	16.5	0
5	16QAM	25	0	16.18	16.02	16.00		
5	64QAM	1	0	16.08	16.25	16.32		
5	64QAM	1	12	16.15	16.33	15.95	16.5	0
5	64QAM	1	24	15.89	16.13	15.99		
5	64QAM	12	0	16.25	16.10	16.09		
5	64QAM	12	7	16.11	16.09	16.16	16.5	0
5	64QAM	12	13	16.19	16.18	16.02		
5	64QAM	25	0	16.19	16.20	16.06		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	16.11	15.95	16.33	16.5	0
3	QPSK	1	8	16.21	16.04	16.00		
3	QPSK	1	14	16.05	16.05	16.00		
3	QPSK	8	0	16.08	16.01	16.10	16.5	0
3	QPSK	8	4	16.11	16.08	16.14		
3	QPSK	8	7	16.04	16.07	16.08		
3	QPSK	15	0	16.09	16.12	16.07	16.5	0
3	16QAM	1	0	16.31	16.15	16.45		
3	16QAM	1	8	16.38	16.33	16.27		
3	16QAM	1	14	16.49	16.43	16.30	16.5	0
3	16QAM	8	0	15.99	16.12	16.11		
3	16QAM	8	4	16.26	16.22	16.27		
3	16QAM	8	7	16.02	16.23	16.18	16.5	0
3	16QAM	15	0	16.10	16.09	16.07		
3	64QAM	1	0	16.43	15.98	16.15		
3	64QAM	1	8	16.42	16.14	16.45	16.5	0
3	64QAM	1	14	16.16	16.36	16.17		
3	64QAM	8	0	16.16	15.92	16.16		
3	64QAM	8	4	16.02	16.06	16.25	16.5	0
3	64QAM	8	7	16.00	16.06	16.05		
3	64QAM	15	0	16.09	16.16	16.11		

Sporton International (Kunshan) Inc.

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Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	15.99	15.75	16.19	16.5	0
1.4	QPSK	1	3	16.30	16.05	16.25		
1.4	QPSK	1	5	16.12	15.86	16.08		
1.4	QPSK	3	0	16.11	15.95	16.03		
1.4	QPSK	3	1	16.08	16.08	16.16		
1.4	QPSK	3	3	16.11	15.97	16.07		
1.4	QPSK	6	0	16.03	15.97	16.01	16.5	0
1.4	16QAM	1	0	16.23	16.14	16.34	16.5	0
1.4	16QAM	1	3	16.21	16.35	16.39		
1.4	16QAM	1	5	16.02	16.08	16.07		
1.4	16QAM	3	0	16.15	16.17	16.06		
1.4	16QAM	3	1	16.08	16.31	16.13		
1.4	16QAM	3	3	16.02	16.21	16.15		
1.4	16QAM	6	0	16.25	16.26	16.26	16.5	0
1.4	64QAM	1	0	16.24	15.92	16.28	16.5	0
1.4	64QAM	1	3	15.98	16.14	16.06		
1.4	64QAM	1	5	16.43	15.88	15.82		
1.4	64QAM	3	0	16.09	15.99	16.26		
1.4	64QAM	3	1	16.10	15.96	16.09		
1.4	64QAM	3	3	16.36	15.91	16.24		
1.4	64QAM	6	0	16.18	16.05	16.05	16.5	0



<Reduced Power Mode for Handheld On>

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.78	19.86	19.50	21	0
20	QPSK	1	49	19.55	19.69	19.61		
20	QPSK	1	99	19.60	19.11	19.31		
20	QPSK	50	0	19.72	19.81	19.83	21	0
20	QPSK	50	24	19.84	19.84	19.85		
20	QPSK	50	50	19.57	19.47	19.73		
20	QPSK	100	0	19.74	19.59	19.86	21	0
20	16QAM	1	0	19.75	19.92	20.17		
20	16QAM	1	49	20.02	20.36	20.29		
20	16QAM	1	99	19.23	19.56	19.71	21	0
20	16QAM	50	0	19.79	19.80	19.85		
20	16QAM	50	24	19.83	19.74	19.88		
20	16QAM	50	50	19.52	19.58	19.73	21	0
20	16QAM	100	0	19.71	19.64	19.71		
20	64QAM	1	0	19.53	19.56	19.66		
20	64QAM	1	49	19.77	19.75	19.80	21	0
20	64QAM	1	99	19.06	19.45	19.01		
20	64QAM	50	0	19.77	19.76	19.83		
20	64QAM	50	24	19.80	19.73	19.88	21	0
20	64QAM	50	50	19.49	19.54	19.71		
20	64QAM	100	0	19.60	19.62	19.71		



FCC SAR Test Report

Report No. : FA892801

Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	19.46	19.43	19.45	21	0
15	QPSK	1	37	19.69	19.53	19.84		
15	QPSK	1	74	19.75	19.75	19.96		
15	QPSK	36	0	19.78	19.84	19.80	21	0
15	QPSK	36	20	19.80	19.83	19.93		
15	QPSK	36	39	19.70	19.71	19.78		
15	QPSK	75	0	19.71	19.73	19.86	21	0
15	16QAM	1	0	20.27	20.15	20.28		
15	16QAM	1	37	20.24	20.33	20.04		
15	16QAM	1	74	20.08	20.30	19.69	21	0
15	16QAM	36	0	19.77	19.80	19.80		
15	16QAM	36	20	19.71	19.79	19.93		
15	16QAM	36	39	19.75	19.66	19.88	21	0
15	16QAM	75	0	19.72	19.72	19.87		
15	64QAM	1	0	20.19	19.97	19.94		
15	64QAM	1	37	19.40	19.64	19.65	21	0
15	64QAM	1	74	19.92	19.87	19.35		
15	64QAM	36	0	19.72	19.72	19.80		
15	64QAM	36	20	19.74	19.70	19.93	21	0
15	64QAM	36	39	19.72	19.66	19.81		
15	64QAM	75	0	19.70	19.70	19.86		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	19.37	19.38	19.49	21	0
10	QPSK	1	25	19.70	19.92	19.67		
10	QPSK	1	49	19.96	19.82	19.92		
10	QPSK	25	0	19.88	19.88	19.89	21	0
10	QPSK	25	12	19.77	19.76	19.76		
10	QPSK	25	25	19.83	19.85	19.86		
10	QPSK	50	0	19.70	19.80	19.80	21	0
10	16QAM	1	0	20.20	20.35	20.38		
10	16QAM	1	25	20.04	20.20	20.25		
10	16QAM	1	49	20.17	19.87	20.03	21	0
10	16QAM	25	0	19.77	19.77	19.81		
10	16QAM	25	12	19.84	19.72	19.89		
10	16QAM	25	25	19.86	19.88	19.79	21	0
10	16QAM	50	0	19.82	19.77	19.77		
10	64QAM	1	0	19.90	20.13	19.83		
10	64QAM	1	25	19.65	20.11	19.70	21	0
10	64QAM	1	49	19.69	19.54	19.34		
10	64QAM	25	0	19.78	19.78	19.89		
10	64QAM	25	12	19.83	19.83	19.77	21	0
10	64QAM	25	25	19.80	19.80	19.78		
10	64QAM	50	0	19.77	19.79	19.72		



FCC SAR Test Report

Report No. : FA892801

Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	19.52	19.43	19.80	21	0
5	QPSK	1	12	19.97	19.76	19.88		
5	QPSK	1	24	19.74	19.88	19.90		
5	QPSK	12	0	19.90	19.88	19.90	21	0
5	QPSK	12	7	19.86	19.86	19.90		
5	QPSK	12	13	19.84	19.73	19.88		
5	QPSK	25	0	19.87	19.85	19.94	21	0
5	16QAM	1	0	20.42	20.09	20.08		
5	16QAM	1	12	20.30	19.96	20.31		
5	16QAM	1	24	20.26	20.00	19.89	21	0
5	16QAM	12	0	19.91	19.92	20.08		
5	16QAM	12	7	19.82	19.87	20.00		
5	16QAM	12	13	19.84	19.83	19.96	21	0
5	16QAM	25	0	19.83	19.81	19.93		
5	64QAM	1	0	20.34	20.14	20.10		
5	64QAM	1	12	19.98	19.97	19.86	21	0
5	64QAM	1	24	20.19	20.02	19.94		
5	64QAM	12	0	19.91	19.88	19.94		
5	64QAM	12	7	19.85	19.83	19.94	21	0
5	64QAM	12	13	19.84	19.82	19.92		
5	64QAM	25	0	19.93	19.85	19.87		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	19.79	19.57	19.86	21	0
3	QPSK	1	8	19.73	19.73	19.75		
3	QPSK	1	14	19.72	19.63	19.77		
3	QPSK	8	0	19.91	19.82	19.83	21	0
3	QPSK	8	4	19.87	19.77	19.86		
3	QPSK	8	7	19.86	19.77	19.83		
3	QPSK	15	0	19.81	19.74	19.82	21	0
3	16QAM	1	0	20.33	19.94	19.93		
3	16QAM	1	8	20.02	20.30	19.97		
3	16QAM	1	14	19.96	19.89	19.89	21	0
3	16QAM	8	0	19.91	19.86	19.79		
3	16QAM	8	4	19.74	19.90	19.82		
3	16QAM	8	7	19.85	19.78	19.80	21	0
3	16QAM	15	0	19.90	19.79	19.87		
3	64QAM	1	0	19.91	19.87	19.53		
3	64QAM	1	8	19.66	19.89	19.76	21	0
3	64QAM	1	14	20.25	19.77	19.79		
3	64QAM	8	0	19.87	19.84	19.81		
3	64QAM	8	4	19.94	19.88	19.86	21	0
3	64QAM	8	7	19.93	19.70	19.90		
3	64QAM	15	0	19.78	19.71	19.76		



FCC SAR Test Report

Report No. : FA892801

Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	19.59	19.33	19.37	21	0
1.4	QPSK	1	3	19.72	19.76	19.74		
1.4	QPSK	1	5	19.68	19.64	19.84		
1.4	QPSK	3	0	19.71	19.84	19.75		
1.4	QPSK	3	1	19.73	19.80	19.83		
1.4	QPSK	3	3	19.64	19.74	19.72		
1.4	QPSK	6	0	19.66	19.74	19.77	21	0
1.4	16QAM	1	0	19.73	19.89	20.24	21	0
1.4	16QAM	1	3	20.18	20.33	19.95		
1.4	16QAM	1	5	20.16	19.95	19.89		
1.4	16QAM	3	0	19.54	19.71	19.88		
1.4	16QAM	3	1	19.58	19.82	19.88		
1.4	16QAM	3	3	19.58	19.86	19.85		
1.4	16QAM	6	0	19.73	19.77	19.83	21	0
1.4	64QAM	1	0	20.17	19.81	19.74	21	0
1.4	64QAM	1	3	19.59	19.80	19.94		
1.4	64QAM	1	5	19.99	20.08	19.92		
1.4	64QAM	3	0	19.73	19.95	19.95		
1.4	64QAM	3	1	20.03	19.86	19.94		
1.4	64QAM	3	3	19.95	19.84	19.90		
1.4	64QAM	6	0	19.63	19.75	19.82	21	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.86	20.00	19.76		
20	QPSK	1	49	19.70	19.68	19.64	20.5	0
20	QPSK	1	99	19.76	19.50	19.80		
20	QPSK	50	0	19.45	19.49	19.50		
20	QPSK	50	24	19.59	19.46	19.44	20.5	0
20	QPSK	50	50	19.32	19.41	19.30		
20	QPSK	100	0	19.40	19.66	19.40		
20	16QAM	1	0	19.40	19.46	19.41	20.5	0
20	16QAM	1	49	19.74	19.76	19.92		
20	16QAM	1	99	19.39	19.78	19.48		
20	16QAM	50	0	19.43	19.43	19.47	20.5	0
20	16QAM	50	24	19.56	19.57	19.39		
20	16QAM	50	50	19.38	19.36	19.30		
20	16QAM	100	0	19.51	19.47	19.26	20.5	0
20	64QAM	1	0	19.53	19.24	19.30		
20	64QAM	1	49	19.27	19.40	19.07		
20	64QAM	1	99	19.55	19.77	19.46	20.5	0
20	64QAM	50	0	19.37	19.47	19.42		
20	64QAM	50	24	19.51	19.49	19.38		
20	64QAM	50	50	19.41	19.50	19.28	20.5	0
20	64QAM	100	0	19.46	19.44	19.36		



FCC SAR Test Report

Report No. : FA892801

Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	19.18	19.75	19.56	20.5	0
15	QPSK	1	37	19.41	19.44	19.44		
15	QPSK	1	74	19.41	19.52	19.20		
15	QPSK	36	0	19.58	19.53	19.50	20.5	0
15	QPSK	36	20	19.67	19.56	19.50		
15	QPSK	36	39	19.45	19.42	19.39		
15	QPSK	75	0	19.41	19.43	19.43	20.5	0
15	16QAM	1	0	20.08	20.19	20.04		
15	16QAM	1	37	19.83	19.87	19.84		
15	16QAM	1	74	20.05	19.78	19.95	20.5	0
15	16QAM	36	0	19.53	19.56	19.50		
15	16QAM	36	20	19.62	19.57	19.53		
15	16QAM	36	39	19.42	19.48	19.55	20.5	0
15	16QAM	75	0	19.40	19.60	19.43		
15	64QAM	1	0	19.47	19.94	19.44		
15	64QAM	1	37	20.16	20.14	19.57	20.5	0
15	64QAM	1	74	19.35	19.59	19.76		
15	64QAM	36	0	19.51	19.56	19.59		
15	64QAM	36	20	19.65	19.51	19.57	20.5	0
15	64QAM	36	39	19.41	19.42	19.47		
15	64QAM	75	0	19.34	19.58	19.45		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.36	19.56	19.59	20.5	0
10	QPSK	1	25	19.38	19.55	19.68		
10	QPSK	1	49	19.68	19.80	19.93		
10	QPSK	25	0	19.74	19.76	19.59	20.5	0
10	QPSK	25	12	19.64	19.77	19.61		
10	QPSK	25	25	19.77	19.79	19.73		
10	QPSK	50	0	19.69	19.68	19.57	20.5	0
10	16QAM	1	0	20.12	20.21	20.13		
10	16QAM	1	25	19.82	19.92	20.04		
10	16QAM	1	49	20.31	19.56	20.22	20.5	0
10	16QAM	25	0	19.65	19.66	19.57		
10	16QAM	25	12	19.72	19.74	19.63		
10	16QAM	25	25	19.69	19.81	19.59	20.5	0
10	16QAM	50	0	19.71	19.74	19.71		
10	64QAM	1	0	20.34	19.77	19.75		
10	64QAM	1	25	20.17	19.40	19.54	20.5	0
10	64QAM	1	49	20.14	19.86	19.93		
10	64QAM	25	0	19.59	19.70	19.63		
10	64QAM	25	12	19.62	19.78	19.61	20.5	0
10	64QAM	25	25	19.78	19.84	19.69		
10	64QAM	50	0	19.61	19.67	19.63		



FCC SAR Test Report

Report No. : FA892801

Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.86	19.80	19.98	20.5	0
5	QPSK	1	12	19.66	19.71	19.46		
5	QPSK	1	24	19.51	19.62	19.62		
5	QPSK	12	0	19.75	19.73	19.67	20.5	0
5	QPSK	12	7	19.61	19.72	19.64		
5	QPSK	12	13	19.66	19.61	19.57		
5	QPSK	25	0	19.69	19.72	19.69	20.5	0
5	16QAM	1	0	20.25	19.98	19.97		
5	16QAM	1	12	19.91	20.03	19.59		
5	16QAM	1	24	19.93	20.18	19.69	20.5	0
5	16QAM	12	0	19.81	19.77	19.62		
5	16QAM	12	7	19.71	19.77	19.59		
5	16QAM	12	13	19.65	19.66	19.61	20.5	0
5	16QAM	25	0	19.65	19.80	19.60		
5	64QAM	1	0	19.76	19.87	19.72	20.5	0
5	64QAM	1	12	20.08	19.66	19.64		
5	64QAM	1	24	19.64	19.49	19.42		
5	64QAM	12	0	19.71	19.75	19.84	20.5	0
5	64QAM	12	7	19.58	19.71	19.74		
5	64QAM	12	13	19.69	19.81	19.75		
5	64QAM	25	0	19.77	19.71	19.57	20.5	0
Channel				19965	20175	20385		
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)	MPR (dB)
3	QPSK	1	0	19.05	19.56	19.65		
3	QPSK	1	8	19.52	19.58	19.68	20.5	0
3	QPSK	1	14	19.52	19.70	19.54		
3	QPSK	8	0	19.63	19.76	19.68	20.5	0
3	QPSK	8	4	19.62	19.65	19.62		
3	QPSK	8	7	19.62	19.60	19.60		
3	QPSK	15	0	19.57	19.63	19.54	20.5	0
3	16QAM	1	0	20.15	19.73	19.46		
3	16QAM	1	8	19.81	19.61	19.47		
3	16QAM	1	14	19.69	19.71	19.34	20.5	0
3	16QAM	8	0	19.79	19.71	19.81		
3	16QAM	8	4	19.70	19.79	19.73		
3	16QAM	8	7	19.65	19.79	19.74	20.5	0
3	16QAM	15	0	19.75	19.72	19.70		
3	64QAM	1	0	19.76	19.83	19.76		
3	64QAM	1	8	19.89	19.84	19.65	20.5	0
3	64QAM	1	14	20.02	19.70	19.68		
3	64QAM	8	0	19.60	19.71	19.64		
3	64QAM	8	4	19.67	19.72	19.66	20.5	0
3	64QAM	8	7	19.55	19.69	19.68		
3	64QAM	15	0	19.67	19.65	19.64		



FCC SAR Test Report

Report No. : FA892801

Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.86	19.76	19.65	20.5	0
1.4	QPSK	1	3	19.59	19.74	19.57		
1.4	QPSK	1	5	19.61	19.63	19.52		
1.4	QPSK	3	0	19.57	19.64	19.54		
1.4	QPSK	3	1	19.63	19.65	19.61		
1.4	QPSK	3	3	19.52	19.56	19.60		
1.4	QPSK	6	0	19.54	19.63	19.57	20.5	0
1.4	16QAM	1	0	19.87	19.98	19.97	20.5	0
1.4	16QAM	1	3	19.92	20.18	20.12		
1.4	16QAM	1	5	19.81	20.05	20.05		
1.4	16QAM	3	0	19.71	19.68	19.76		
1.4	16QAM	3	1	19.77	19.86	19.80		
1.4	16QAM	3	3	19.77	19.67	19.66		
1.4	16QAM	6	0	19.63	19.71	19.58	20.5	0
1.4	64QAM	1	0	19.65	19.51	19.65	20.5	0
1.4	64QAM	1	3	19.42	20.03	19.75		
1.4	64QAM	1	5	19.73	19.96	19.96		
1.4	64QAM	3	0	19.67	19.86	19.71		
1.4	64QAM	3	1	19.93	19.96	19.70		
1.4	64QAM	3	3	19.82	19.93	19.75		
1.4	64QAM	6	0	19.65	19.68	19.65	20.5	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.89	21.87	21.82		
20	QPSK	1	49	21.92	21.75	21.95	22	0
20	QPSK	1	99	21.78	21.56	21.69		
20	QPSK	50	0	21.73	21.59	21.58		
20	QPSK	50	24	21.75	21.71	21.77	22	0
20	QPSK	50	50	21.74	21.64	21.65		
20	QPSK	100	0	21.70	21.60	21.73		
20	16QAM	1	0	21.81	21.80	21.89	22	0
20	16QAM	1	49	21.90	21.97	21.91		
20	16QAM	1	99	21.92	21.64	21.91		
20	16QAM	50	0	20.92	20.90	20.78	22	0
20	16QAM	50	24	21.01	20.92	20.94		
20	16QAM	50	50	20.95	20.89	20.95		
20	16QAM	100	0	20.91	20.82	20.85	22	0
20	64QAM	1	0	21.97	21.53	21.44		
20	64QAM	1	49	21.55	21.93	21.50		
20	64QAM	1	99	21.84	21.88	21.54	22	0
20	64QAM	50	0	20.90	20.90	20.86		
20	64QAM	50	24	21.07	20.91	20.93		
20	64QAM	50	50	20.97	20.87	20.87	22	0
20	64QAM	100	0	21.01	20.83	20.86		



FCC SAR Test Report

Report No. : FA892801

Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	21.80	21.78	21.70	22	0
15	QPSK	1	37	21.71	21.60	21.73		
15	QPSK	1	74	21.56	21.41	21.40		
15	QPSK	36	0	21.68	21.64	21.59	22	0
15	QPSK	36	20	21.77	21.65	21.64		
15	QPSK	36	39	21.78	21.74	21.64		
15	QPSK	75	0	21.77	21.66	21.64	22	0
15	16QAM	1	0	21.87	21.91	21.67		
15	16QAM	1	37	21.94	21.93	21.70		
15	16QAM	1	74	21.97	21.95	21.57	22	0
15	16QAM	36	0	20.98	20.99	21.02		
15	16QAM	36	20	20.99	21.03	21.00		
15	16QAM	36	39	21.00	20.96	21.03	22	0
15	16QAM	75	0	21.11	20.93	20.85		
15	64QAM	1	0	21.51	21.78	21.57		
15	64QAM	1	37	21.98	21.94	21.95	22	0
15	64QAM	1	74	21.80	21.66	21.72		
15	64QAM	36	0	20.98	20.99	21.05		
15	64QAM	36	20	21.02	21.05	21.01	22	0
15	64QAM	36	39	21.10	20.98	21.01		
15	64QAM	75	0	21.11	20.93	20.87		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	21.98	21.92	21.94	22	0
10	QPSK	1	25	21.59	21.34	21.42		
10	QPSK	1	49	21.69	21.58	21.50		
10	QPSK	25	0	21.60	21.51	21.42	22	0
10	QPSK	25	12	21.55	21.51	21.42		
10	QPSK	25	25	21.63	21.38	21.47		
10	QPSK	50	0	21.50	21.49	21.47	22	0
10	16QAM	1	0	21.91	21.90	21.86		
10	16QAM	1	25	21.98	21.62	21.60		
10	16QAM	1	49	21.98	21.76	21.88	22	0
10	16QAM	25	0	20.85	20.80	20.81		
10	16QAM	25	12	20.85	20.81	20.83		
10	16QAM	25	25	20.90	20.85	20.89	22	0
10	16QAM	50	0	21.00	20.73	20.78		
10	64QAM	1	0	21.86	21.78	21.82		
10	64QAM	1	25	21.86	21.92	21.75	22	0
10	64QAM	1	49	21.96	21.86	21.94		
10	64QAM	25	0	20.87	20.73	20.74		
10	64QAM	25	12	20.92	20.81	20.76	22	0
10	64QAM	25	25	21.01	20.76	20.70		
10	64QAM	50	0	20.87	20.78	20.69		



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Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.94	20.92	20.93	22	0
5	QPSK	1	12	21.56	21.38	21.43		
5	QPSK	1	24	21.64	21.45	21.46		
5	QPSK	12	0	21.61	21.50	21.51	22	0
5	QPSK	12	7	21.61	21.52	21.41		
5	QPSK	12	13	21.50	21.41	21.47		
5	QPSK	25	0	21.62	21.53	21.42	22	0
5	16QAM	1	0	21.88	21.99	21.59		
5	16QAM	1	12	21.89	21.86	21.71		
5	16QAM	1	24	21.91	21.92	21.69	22	0
5	16QAM	12	0	20.94	20.83	20.92		
5	16QAM	12	7	20.92	20.91	20.90		
5	16QAM	12	13	20.82	20.81	20.83	22	0
5	16QAM	25	0	20.86	20.76	20.67		
5	64QAM	1	0	21.94	21.97	21.67		
5	64QAM	1	12	21.45	21.91	21.68	22	0
5	64QAM	1	24	21.71	21.85	21.91		
5	64QAM	12	0	21.00	20.76	20.83		
5	64QAM	12	7	21.00	20.88	20.81	22	0
5	64QAM	12	13	20.88	20.83	20.80		
5	64QAM	25	0	21.01	20.80	20.87		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	19.79	19.82	19.76		
20	QPSK	1	49	20.05	19.88	19.89	21	0
20	QPSK	1	99	19.29	19.48	19.13		
20	QPSK	50	0	19.91	19.92	20.00		
20	QPSK	50	24	20.00	19.95	20.01	21	0
20	QPSK	50	50	19.90	19.91	19.87		
20	QPSK	100	0	19.94	19.93	20.05		
20	16QAM	1	0	19.88	19.82	19.85	21	0
20	16QAM	1	49	19.96	19.95	19.98		
20	16QAM	1	99	19.99	19.64	19.71		
20	16QAM	50	0	19.93	19.91	19.91	21	0
20	16QAM	50	24	20.06	20.02	19.98		
20	16QAM	50	50	19.89	19.95	19.98		
20	16QAM	100	0	19.98	19.85	20.00	21	0
20	64QAM	1	0	20.06	20.02	19.81		
20	64QAM	1	49	20.03	20.25	20.13		
20	64QAM	1	99	19.47	19.66	19.78	21	0
20	64QAM	50	0	20.01	19.90	20.05		
20	64QAM	50	24	20.13	19.94	20.02		
20	64QAM	50	50	19.89	19.87	19.97	21	0
20	64QAM	100	0	19.94	19.93	19.86		



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Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	19.99	19.99	19.00	21	0
15	QPSK	1	37	19.88	19.87	19.97		
15	QPSK	1	74	19.85	19.83	19.09		
15	QPSK	36	0	20.05	19.95	20.04	21	0
15	QPSK	36	20	20.07	20.12	20.13		
15	QPSK	36	39	20.07	19.89	19.98		
15	QPSK	75	0	20.06	20.01	20.07	21	0
15	16QAM	1	0	20.12	20.06	20.49		
15	16QAM	1	37	20.29	20.19	20.45		
15	16QAM	1	74	19.78	20.03	19.80	21	0
15	16QAM	36	0	20.02	19.90	20.04		
15	16QAM	36	20	20.04	20.03	20.06		
15	16QAM	36	39	20.03	20.02	20.14	21	0
15	16QAM	75	0	20.15	20.04	20.19		
15	64QAM	1	0	20.02	20.05	19.85		
15	64QAM	1	37	20.01	19.84	19.89	21	0
15	64QAM	1	74	19.63	19.78	19.90		
15	64QAM	36	0	19.97	19.83	20.04		
15	64QAM	36	20	19.99	19.98	20.05	21	0
15	64QAM	36	39	19.99	19.93	20.01		
15	64QAM	75	0	20.12	19.99	20.23		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	20.20	20.01	19.98	21	0
10	QPSK	1	25	19.94	19.80	20.00		
10	QPSK	1	49	20.18	20.08	19.50		
10	QPSK	25	0	20.09	20.03	20.07	21	0
10	QPSK	25	12	20.05	20.00	20.06		
10	QPSK	25	25	20.04	19.96	20.15		
10	QPSK	50	0	20.10	19.94	20.11	21	0
10	16QAM	1	0	20.44	20.25	20.31		
10	16QAM	1	25	20.18	20.14	20.30		
10	16QAM	1	49	19.92	20.22	19.70	21	0
10	16QAM	25	0	20.15	19.97	19.99		
10	16QAM	25	12	20.10	19.99	19.96		
10	16QAM	25	25	20.07	20.02	20.12	21	0
10	16QAM	50	0	20.12	20.02	20.09		
10	64QAM	1	0	20.45	20.24	19.93		
10	64QAM	1	25	20.15	20.04	20.21	21	0
10	64QAM	1	49	20.08	20.04	19.80		
10	64QAM	25	0	20.07	19.93	19.98		
10	64QAM	25	12	20.02	19.87	20.09	21	0
10	64QAM	25	25	20.08	19.98	20.07		
10	64QAM	50	0	20.05	19.94	20.04		



FCC SAR Test Report

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Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	19.26	19.28	19.23	21	0
5	QPSK	1	12	20.05	19.89	20.07		
5	QPSK	1	24	20.04	19.95	19.72		
5	QPSK	12	0	20.20	20.03	20.11	21	0
5	QPSK	12	7	20.06	19.98	20.07		
5	QPSK	12	13	20.04	19.94	20.09		
5	QPSK	25	0	20.16	19.90	20.14	21	0
5	16QAM	1	0	20.43	20.41	20.45		
5	16QAM	1	12	20.51	19.95	20.19		
5	16QAM	1	24	20.46	20.35	19.80	21	0
5	16QAM	12	0	20.20	20.01	20.18		
5	16QAM	12	7	20.17	19.98	20.13		
5	16QAM	12	13	20.05	20.03	20.08	21	0
5	16QAM	25	0	20.03	19.91	20.03		
5	64QAM	1	0	20.37	20.45	20.29		
5	64QAM	1	12	20.23	20.17	20.37	21	0
5	64QAM	1	24	20.28	20.27	19.90		
5	64QAM	12	0	20.22	20.11	20.18		
5	64QAM	12	7	20.18	19.96	20.12	21	0
5	64QAM	12	13	20.13	20.02	20.12		
5	64QAM	25	0	20.17	19.95	20.18		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	19.89	20.20	20.23	21	0
3	QPSK	1	8	19.95	19.90	20.01		
3	QPSK	1	14	19.93	19.84	19.96		
3	QPSK	8	0	20.03	19.92	20.05	21	0
3	QPSK	8	4	20.01	19.96	20.08		
3	QPSK	8	7	19.99	19.87	20.04		
3	QPSK	15	0	19.97	19.93	20.03	21	0
3	16QAM	1	0	20.32	20.18	20.34		
3	16QAM	1	8	20.36	20.20	20.42		
3	16QAM	1	14	20.24	20.08	20.27	21	0
3	16QAM	8	0	20.07	20.00	20.10		
3	16QAM	8	4	20.06	20.02	20.15		
3	16QAM	8	7	20.05	19.98	20.07	21	0
3	16QAM	15	0	19.98	19.94	20.03		
3	64QAM	1	0	20.19	20.08	20.23		
3	64QAM	1	8	20.19	20.12	20.25	21	0
3	64QAM	1	14	20.09	19.98	20.20		
3	64QAM	8	0	20.03	19.97	20.09		
3	64QAM	8	4	20.04	19.95	20.12	21	0
3	64QAM	8	7	20.00	19.91	20.08		
3	64QAM	15	0	20.01	19.95	20.09		



FCC SAR Test Report

Report No. : FA892801

Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	19.31	20.15	20.12	21	0
1.4	QPSK	1	3	19.97	19.91	20.11		
1.4	QPSK	1	5	19.94	19.82	20.04		
1.4	QPSK	3	0	19.92	19.87	20.02		
1.4	QPSK	3	1	19.99	19.90	20.05		
1.4	QPSK	3	3	19.97	19.90	20.03		
1.4	QPSK	6	0	19.97	19.87	20.02	21	0
1.4	16QAM	1	0	20.25	20.13	20.37	21	0
1.4	16QAM	1	3	20.28	20.15	20.42		
1.4	16QAM	1	5	20.24	20.12	20.33		
1.4	16QAM	3	0	20.00	19.95	20.07		
1.4	16QAM	3	1	20.04	19.98	20.10		
1.4	16QAM	3	3	19.96	19.94	19.99		
1.4	16QAM	6	0	20.01	19.95	20.09	21	0
1.4	64QAM	1	0	20.13	20.07	20.22	21	0
1.4	64QAM	1	3	20.14	20.06	20.27		
1.4	64QAM	1	5	20.11	20.00	20.19		
1.4	64QAM	3	0	20.00	19.97	20.06		
1.4	64QAM	3	1	20.04	19.98	20.12		
1.4	64QAM	3	3	20.02	19.91	20.10		
1.4	64QAM	6	0	19.94	19.88	19.93	21	0



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				-	27710	-	22.5	0
Frequency (MHz)					2310			
10	QPSK	1	0		21.74			
10	QPSK	1	25		21.37		22.5	0
10	QPSK	1	49		21.80			
10	QPSK	25	0		21.59			
10	QPSK	25	12		21.71		22.5	0
10	QPSK	25	25		21.63			
10	QPSK	50	0		21.68			
10	16QAM	1	0		22.00		22.5	0
10	16QAM	1	25		21.82			
10	16QAM	1	49		22.03			
10	16QAM	25	0		20.63		22.5	0
10	16QAM	25	12		20.70			
10	16QAM	25	25		20.75			
10	16QAM	50	0		20.62		22.5	0
10	64QAM	1	0		21.90			
10	64QAM	1	25		21.73			
10	64QAM	1	49		21.93		22.5	0
10	64QAM	25	0		20.67			
10	64QAM	25	12		20.72			
10	64QAM	25	25		20.75		22.5	0
10	64QAM	50	0		20.63			



FCC SAR Test Report

Report No. : FA892801

Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	20.89	21.23	21.40	22.5	0
5	QPSK	1	12	21.47	21.42	21.46		
5	QPSK	1	24	21.47	21.48	21.49		
5	QPSK	12	0	21.64	21.65	21.71	22.5	0
5	QPSK	12	7	21.64	21.62	21.64		
5	QPSK	12	13	21.55	21.65	21.64		
5	QPSK	25	0	21.57	21.63	21.73	22.5	0
5	16QAM	1	0	21.94	21.93	21.86		
5	16QAM	1	12	21.84	21.82	21.78		
5	16QAM	1	24	21.83	21.81	21.82	22.5	0
5	16QAM	12	0	20.79	20.81	20.86		
5	16QAM	12	7	20.80	20.78	20.80		
5	16QAM	12	13	20.69	20.82	20.82	22.5	0
5	16QAM	25	0	20.62	20.66	20.78		
5	64QAM	1	0	21.80	21.77	21.74		
5	64QAM	1	12	21.74	21.67	21.65	22.5	0
5	64QAM	1	24	21.66	21.65	21.69		
5	64QAM	12	0	20.73	20.76	20.79		
5	64QAM	12	7	20.78	20.76	20.77	22.5	0
5	64QAM	12	13	20.67	20.80	20.79		
5	64QAM	25	0	20.64	20.69	20.82		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	20.5	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.70	19.73	19.83		
20	QPSK	1	49	19.52	20.09	19.86	20.5	0
20	QPSK	1	99	20.07	20.32	20.33		
20	QPSK	50	0	19.94	19.83	19.89		
20	QPSK	50	24	19.98	19.95	20.03	20.5	0
20	QPSK	50	50	19.81	19.86	20.01		
20	QPSK	100	0	19.91	19.82	19.98		
20	16QAM	1	0	19.94	20.24	20.32	20.5	0
20	16QAM	1	49	20.19	20.38	19.77		
20	16QAM	1	99	20.35	20.43	20.45		
20	16QAM	50	0	19.92	19.77	19.96	20.5	0
20	16QAM	50	24	19.98	20.00	20.02		
20	16QAM	50	50	19.92	19.93	19.99		
20	16QAM	100	0	19.79	19.88	19.96	20.5	0
20	64QAM	1	0	19.91	20.03	20.14		
20	64QAM	1	49	20.19	20.16	19.81		
20	64QAM	1	99	20.07	20.20	20.19	20.5	0
20	64QAM	50	0	19.84	19.72	19.96		
20	64QAM	50	24	19.91	19.98	20.03		
20	64QAM	50	50	19.85	19.79	19.99	20.5	0
20	64QAM	100	0	19.85	19.86	19.98		



FCC SAR Test Report

Report No. : FA892801

Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.21	20.02	20.20	20.5	0
15	QPSK	1	37	20.38	20.05	19.61		
15	QPSK	1	74	20.10	20.07	19.84		
15	QPSK	36	0	19.97	19.98	20.07	20.5	0
15	QPSK	36	20	19.93	19.99	19.95		
15	QPSK	36	39	19.93	19.86	19.93		
15	QPSK	75	0	19.90	19.88	19.85	20.5	0
15	16QAM	1	0	20.41	20.18	20.10		
15	16QAM	1	37	20.16	19.94	19.80		
15	16QAM	1	74	20.38	20.30	20.15	20.5	0
15	16QAM	36	0	20.13	19.99	20.06		
15	16QAM	36	20	19.89	19.99	20.00		
15	16QAM	36	39	19.81	19.85	19.89	20.5	0
15	16QAM	75	0	19.81	19.90	19.90		
15	64QAM	1	0	20.45	20.24	20.43		
15	64QAM	1	37	20.27	20.27	20.48	20.5	0
15	64QAM	1	74	20.39	20.14	20.35		
15	64QAM	36	0	20.01	19.96	20.04		
15	64QAM	36	20	20.00	19.94	20.05	20.5	0
15	64QAM	36	39	19.89	19.81	19.92		
15	64QAM	75	0	19.81	19.88	19.87		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	20.10	20.12	20.20	20.5	0
10	QPSK	1	25	19.76	20.00	19.91		
10	QPSK	1	49	19.94	20.33	20.34		
10	QPSK	25	0	20.04	19.91	19.90	20.5	0
10	QPSK	25	12	20.06	20.10	20.09		
10	QPSK	25	25	20.08	20.14	20.26		
10	QPSK	50	0	20.00	20.10	20.15	20.5	0
10	16QAM	1	0	20.03	19.96	19.98		
10	16QAM	1	25	20.41	20.43	20.43		
10	16QAM	1	49	20.27	20.41	20.41	20.5	0
10	16QAM	25	0	20.02	20.04	20.09		
10	16QAM	25	12	20.15	20.12	20.21		
10	16QAM	25	25	20.17	20.04	20.26	20.5	0
10	16QAM	50	0	19.98	20.07	20.13		
10	64QAM	1	0	19.55	19.49	19.47		
10	64QAM	1	25	19.90	20.01	20.13	20.5	0
10	64QAM	1	49	19.78	20.35	20.46		
10	64QAM	25	0	19.98	20.03	20.00		
10	64QAM	25	12	20.12	20.14	20.10	20.5	0
10	64QAM	25	25	20.14	20.14	20.04		
10	64QAM	50	0	20.05	20.09	20.05		



FCC SAR Test Report

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Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.00	19.90	20.06	20.5	0
5	QPSK	1	12	19.85	19.91	20.06		
5	QPSK	1	24	19.81	20.04	19.95		
5	QPSK	12	0	20.08	20.07	20.15	20.5	0
5	QPSK	12	7	20.12	20.13	20.08		
5	QPSK	12	13	20.08	20.00	20.14		
5	QPSK	25	0	20.11	20.15	20.13	20.5	0
5	16QAM	1	0	20.43	20.42	20.33		
5	16QAM	1	12	20.28	20.15	20.14		
5	16QAM	1	24	20.42	20.24	20.15	20.5	0
5	16QAM	12	0	20.17	20.05	20.24		
5	16QAM	12	7	20.01	20.12	20.09		
5	16QAM	12	13	20.01	20.07	20.13	20.5	0
5	16QAM	25	0	20.14	20.02	20.15		
5	64QAM	1	0	20.03	20.35	20.33		
5	64QAM	1	12	19.78	20.24	20.40	20.5	0
5	64QAM	1	24	19.76	20.19	20.15		
5	64QAM	12	0	20.23	20.09	20.15		
5	64QAM	12	7	20.16	20.15	20.11	20.5	0
5	64QAM	12	13	20.06	20.12	20.08		
5	64QAM	25	0	20.07	20.14	20.22		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.02	19.91	19.92	20.5	0
3	QPSK	1	8	20.11	20.07	20.03		
3	QPSK	1	14	20.00	20.01	20.02		
3	QPSK	8	0	20.12	20.03	20.11	20.5	0
3	QPSK	8	4	20.16	20.04	20.12		
3	QPSK	8	7	20.05	20.00	20.01		
3	QPSK	15	0	20.12	20.10	20.03	20.5	0
3	16QAM	1	0	20.36	19.99	20.32		
3	16QAM	1	8	20.25	20.12	20.38		
3	16QAM	1	14	19.94	20.12	20.27	20.5	0
3	16QAM	8	0	20.19	20.12	20.09		
3	16QAM	8	4	20.12	20.16	20.13		
3	16QAM	8	7	20.02	20.12	20.04	20.5	0
3	16QAM	15	0	20.02	20.05	20.12		
3	64QAM	1	0	20.44	20.08	20.28		
3	64QAM	1	8	20.43	20.18	20.41	20.5	0
3	64QAM	1	14	20.32	20.11	20.12		
3	64QAM	8	0	20.21	19.92	19.97		
3	64QAM	8	4	20.13	20.09	20.11	20.5	0
3	64QAM	8	7	20.04	19.95	20.01		
3	64QAM	15	0	20.04	20.10	20.11		



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Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.01	19.91	20.15	20.5	0
1.4	QPSK	1	3	20.03	19.97	20.18		
1.4	QPSK	1	5	19.90	19.91	20.02		
1.4	QPSK	3	0	20.01	19.89	20.02		
1.4	QPSK	3	1	20.10	20.03	20.01		
1.4	QPSK	3	3	20.07	20.05	20.11		
1.4	QPSK	6	0	20.05	19.99	20.05	20.5	0
1.4	16QAM	1	0	20.41	20.45	20.27	20.5	0
1.4	16QAM	1	3	20.43	20.23	20.26		
1.4	16QAM	1	5	20.41	20.36	20.26		
1.4	16QAM	3	0	20.00	19.95	20.02		
1.4	16QAM	3	1	20.11	20.10	20.03		
1.4	16QAM	3	3	19.99	20.03	20.19		
1.4	16QAM	6	0	20.04	20.04	20.06	20.5	0
1.4	64QAM	1	0	20.36	20.40	19.94	20.5	0
1.4	64QAM	1	3	20.40	20.35	19.92		
1.4	64QAM	1	5	20.41	20.45	19.79		
1.4	64QAM	3	0	20.13	20.07	20.30		
1.4	64QAM	3	1	20.15	20.27	20.30		
1.4	64QAM	3	3	20.14	20.20	20.09		
1.4	64QAM	6	0	19.97	20.08	20.13	20.5	0

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

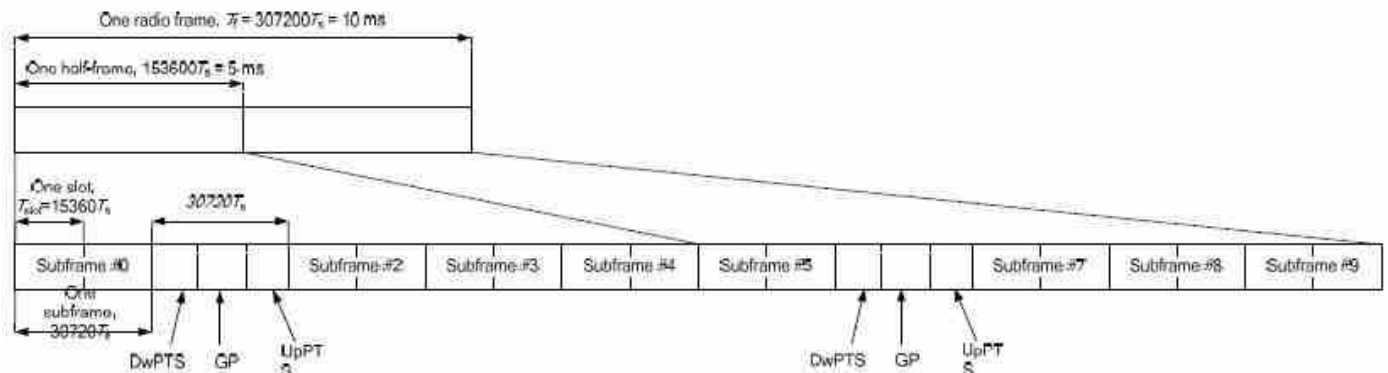


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

For LTE Band 41 Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

For LTE Band 41 Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level for LTE band 41.



<Full Power Mode>

<LTE Band 38>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	23.53	23.50	23.42	24	0
20	QPSK	1	49	23.26	23.14	23.22		
20	QPSK	1	99	23.29	23.09	23.16		
20	QPSK	50	0	22.18	22.06	22.05	23	1
20	QPSK	50	24	22.29	22.23	22.24		
20	QPSK	50	50	22.25	22.20	22.20		
20	QPSK	100	0	22.24	22.15	22.17	23	1
20	16QAM	1	0	22.06	21.97	21.91		
20	16QAM	1	49	22.34	22.22	22.25		
20	16QAM	1	99	22.23	22.02	22.07	22	2
20	16QAM	50	0	21.24	21.11	21.08		
20	16QAM	50	24	21.35	21.26	21.32		
20	16QAM	50	50	21.32	21.22	21.24	22	2
20	16QAM	100	0	21.27	21.19	21.18		
20	64QAM	1	0	20.83	20.73	20.65	22	2
20	64QAM	1	49	21.09	21.02	21.03		
20	64QAM	1	99	21.05	20.79	20.82		
20	64QAM	50	0	20.18	20.05	20.03	21	3
20	64QAM	50	24	20.27	20.21	20.28		
20	64QAM	50	50	20.27	20.18	20.19		
20	64QAM	100	0	20.31	20.24	20.25		



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Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	23.20	23.17	23.26	24	0
15	QPSK	1	37	23.31	23.33	23.45		
15	QPSK	1	74	23.38	23.40	23.46		
15	QPSK	36	0	22.23	22.29	22.24	23	1
15	QPSK	36	20	22.23	22.28	22.31		
15	QPSK	36	39	22.37	22.32	22.43		
15	QPSK	75	0	22.25	22.30	22.33		
15	16QAM	1	0	22.31	22.22	22.36	23	1
15	16QAM	1	37	22.18	22.17	22.21		
15	16QAM	1	74	22.46	22.45	22.50		
15	16QAM	36	0	21.23	21.25	21.28	22	2
15	16QAM	36	20	21.26	21.29	21.35		
15	16QAM	36	39	21.36	21.29	21.43		
15	16QAM	75	0	21.30	21.33	21.37		
15	64QAM	1	0	20.64	20.52	20.64	22	2
15	64QAM	1	37	20.58	20.57	20.65		
15	64QAM	1	74	20.71	20.74	20.77		
15	64QAM	36	0	19.76	19.80	19.76	21	3
15	64QAM	36	20	19.75	19.80	19.84		
15	64QAM	36	39	19.90	19.83	19.96		
15	64QAM	75	0	19.81	19.83	19.88		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	23.44	23.45	23.49	24	0
10	QPSK	1	25	23.30	23.26	23.38		
10	QPSK	1	49	23.23	23.20	23.30		
10	QPSK	25	0	22.39	22.40	22.39	23	1
10	QPSK	25	12	22.28	22.32	22.40		
10	QPSK	25	25	22.35	22.30	22.41		
10	QPSK	50	0	22.36	22.32	22.46		
10	16QAM	1	0	22.55	22.56	22.63	23	1
10	16QAM	1	25	22.34	22.35	22.45		
10	16QAM	1	49	22.72	22.67	22.66		
10	16QAM	25	0	21.40	21.36	21.35	22	2
10	16QAM	25	12	21.32	21.29	21.43		
10	16QAM	25	25	21.36	21.40	21.50		
10	16QAM	50	0	21.36	21.37	21.48		
10	64QAM	1	0	20.87	20.89	20.88	22	2
10	64QAM	1	25	20.65	20.58	20.67		
10	64QAM	1	49	21.00	20.99	21.11		
10	64QAM	25	0	19.82	19.80	19.83	21	3
10	64QAM	25	12	19.79	19.79	19.90		
10	64QAM	25	25	19.84	19.87	19.95		
10	64QAM	50	0	19.77	19.80	19.92		



FCC SAR Test Report

Report No. : FA892801

Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.35	23.34	23.41	24	0
5	QPSK	1	12	23.30	23.26	23.32		
5	QPSK	1	24	23.27	23.26	23.33		
5	QPSK	12	0	22.39	22.37	22.43	23	1
5	QPSK	12	7	22.34	22.35	22.39		
5	QPSK	12	13	22.34	22.31	22.38		
5	QPSK	25	0	22.38	22.35	22.40		
5	16QAM	1	0	22.48	22.44	22.59	23	1
5	16QAM	1	12	22.45	22.46	22.56		
5	16QAM	1	24	22.36	22.36	22.45		
5	16QAM	12	0	21.39	21.42	21.48	22	2
5	16QAM	12	7	21.33	21.36	21.45		
5	16QAM	12	13	21.32	21.30	21.39		
5	16QAM	25	0	21.41	21.34	21.44		
5	64QAM	1	0	20.84	20.78	20.83	22	2
5	64QAM	1	12	20.64	20.67	20.74		
5	64QAM	1	24	20.65	20.63	20.76		
5	64QAM	12	0	19.88	19.85	19.93	21	3
5	64QAM	12	7	19.84	19.86	19.94		
5	64QAM	12	13	19.87	19.81	19.90		
5	64QAM	25	0	19.87	19.82	19.89		



<LTE Band 41 Power Class 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	26.51	26.34	26.60	26.57	26.45	27	0
20	QPSK	1	49	25.98	26.06	26.13	26.18	26.17		
20	QPSK	1	99	26.07	26.01	26.16	26.13	26.23		
20	QPSK	50	0	24.84	25.00	25.20	25.01	25.00	26	1
20	QPSK	50	24	24.93	24.95	25.15	25.03	25.08		
20	QPSK	50	50	25.01	24.99	25.18	25.13	25.13		
20	QPSK	100	0	25.04	24.94	25.17	25.13	25.06		
20	16QAM	1	0	24.70	24.76	24.82	24.82	24.88	26	1
20	16QAM	1	49	25.11	25.18	25.22	25.18	25.22		
20	16QAM	1	99	25.09	24.87	25.11	25.10	25.06		
20	16QAM	50	0	23.88	24.04	24.24	24.01	24.13	25	2
20	16QAM	50	24	24.07	24.12	24.21	24.06	24.15		
20	16QAM	50	50	24.04	24.07	24.18	24.20	24.15		
20	16QAM	100	0	24.03	24.01	24.14	24.13	24.13		
20	64QAM	1	0	23.93	23.77	23.89	23.65	23.82	25	2
20	64QAM	1	49	24.35	24.23	24.44	24.16	24.32		
20	64QAM	1	99	24.21	23.91	24.30	23.92	24.12		
20	64QAM	50	0	22.97	23.15	23.19	23.01	23.14	24	3
20	64QAM	50	24	23.15	23.13	23.24	23.08	23.21		
20	64QAM	50	50	23.04	23.09	23.29	23.15	23.24		
20	64QAM	100	0	22.71	22.41	22.80	22.42	22.62		



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Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	26.20	26.43	26.43	26.43	26.40	27	0
15	QPSK	1	37	26.25	26.29	26.50	26.44	26.45		
15	QPSK	1	74	26.18	26.19	26.24	26.34	26.47		
15	QPSK	36	0	24.91	24.93	25.04	25.01	25.22	26	1
15	QPSK	36	20	24.99	24.89	25.10	25.14	25.19		
15	QPSK	36	39	25.02	24.89	25.08	25.13	25.28		
15	QPSK	75	0	25.01	24.97	25.08	25.11	25.22		
15	16QAM	1	0	24.94	25.05	25.15	25.13	25.27	26	1
15	16QAM	1	37	24.96	24.46	24.57	24.87	24.78		
15	16QAM	1	74	25.19	25.12	25.23	25.27	25.43		
15	16QAM	36	0	23.90	23.96	24.09	24.09	24.23	25	2
15	16QAM	36	20	23.96	24.00	24.14	24.14	24.20		
15	16QAM	36	39	24.03	23.97	24.07	24.17	24.22		
15	16QAM	75	0	24.10	24.00	24.05	24.15	24.35		
15	64QAM	1	0	23.69	23.51	23.81	23.69	23.81	25	2
15	64QAM	1	37	23.95	23.44	24.00	23.62	23.93		
15	64QAM	1	74	23.75	23.54	23.99	23.82	23.99		
15	64QAM	36	0	23.00	23.12	23.20	23.26	23.30	24	3
15	64QAM	36	20	23.09	23.08	23.20	23.25	23.35		
15	64QAM	36	39	23.11	23.08	23.26	23.28	23.39		
15	64QAM	75	0	22.79	22.61	22.91	22.79	22.91		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	26.25	26.58	26.18	26.40	26.02	27	0
10	QPSK	1	25	26.21	26.07	26.26	26.07	26.24		
10	QPSK	1	49	26.43	26.26	26.38	26.33	26.46		
10	QPSK	25	0	25.11	25.07	25.08	25.04	25.20	26	1
10	QPSK	25	12	25.07	25.00	25.14	25.14	25.21		
10	QPSK	25	25	25.11	25.10	25.14	25.08	25.16		
10	QPSK	50	0	24.96	24.95	25.02	24.96	25.18		
10	16QAM	1	0	25.29	25.25	25.31	25.27	25.47	26	1
10	16QAM	1	25	25.22	25.16	25.33	25.24	25.37		
10	16QAM	1	49	25.53	25.29	25.45	25.42	25.50		
10	16QAM	25	0	24.12	23.99	24.05	24.01	24.20	25	2
10	16QAM	25	12	24.11	24.14	24.10	24.12	24.17		
10	16QAM	25	25	24.24	24.18	24.13	24.13	24.20		
10	16QAM	50	0	24.07	24.01	24.12	24.13	24.17		
10	64QAM	1	0	24.02	23.76	23.75	23.72	23.89	25	2
10	64QAM	1	25	23.74	23.46	23.82	23.58	23.73		
10	64QAM	1	49	24.10	23.78	23.93	23.94	23.94		
10	64QAM	25	0	23.14	23.02	23.15	23.03	23.23	24	3
10	64QAM	25	12	23.19	23.12	23.22	23.14	23.26		
10	64QAM	25	25	23.22	23.16	23.22	23.13	23.28		
10	64QAM	50	0	23.17	23.07	23.13	23.13	23.27		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	26.40	26.39	26.40	26.21	26.26	27	0
5	QPSK	1	12	26.11	26.05	26.11	26.08	26.20		
5	QPSK	1	24	26.11	26.10	26.11	26.06	26.17		
5	QPSK	12	0	25.15	25.01	25.15	25.01	25.13	26	1
5	QPSK	12	7	25.11	24.91	25.05	25.05	25.12		
5	QPSK	12	13	25.01	24.96	25.05	24.98	25.12		
5	QPSK	25	0	25.07	24.96	25.15	25.02	25.16		
5	16QAM	1	0	25.19	25.19	25.35	25.24	25.33	26	1
5	16QAM	1	12	25.39	25.38	25.64	25.46	25.51		
5	16QAM	1	24	25.21	25.15	25.32	25.14	25.32		
5	16QAM	12	0	24.12	24.11	24.24	24.17	24.22	25	2
5	16QAM	12	7	24.11	24.18	24.15	24.20	24.20		
5	16QAM	12	13	24.11	24.12	24.14	24.11	24.22		
5	16QAM	25	0	24.07	24.13	24.17	24.05	24.13		
5	64QAM	1	0	23.93	23.69	23.99	23.79	23.81	25	2
5	64QAM	1	12	23.72	23.61	23.76	23.68	23.71		
5	64QAM	1	24	23.74	23.69	23.96	23.65	23.81		
5	64QAM	12	0	23.15	23.15	23.20	23.20	23.23	24	3
5	64QAM	12	7	23.20	23.24	23.27	23.28	23.23		
5	64QAM	12	13	23.16	23.19	23.20	23.23	23.34		
5	64QAM	25	0	23.03	23.19	23.09	22.89	22.91		



<LTE Band 41 Power Class 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.79	22.91	23.06	22.61	22.77	24.5	0
20	QPSK	1	49	22.84	22.94	23.04	22.57	22.71		
20	QPSK	1	99	22.83	22.89	22.96	22.65	22.35		
20	QPSK	50	0	21.47	21.52	21.74	21.26	21.50	23.5	1
20	QPSK	50	24	21.47	21.57	21.67	21.26	21.36		
20	QPSK	50	50	21.46	21.52	21.66	21.30	21.39		
20	QPSK	100	0	21.48	21.48	21.70	21.32	21.36		
20	16QAM	1	0	21.20	21.21	21.30	21.02	21.13	23.5	1
20	16QAM	1	49	21.59	21.62	21.70	21.25	21.46		
20	16QAM	1	99	21.56	21.41	21.52	21.23	21.38		
20	16QAM	50	0	20.40	20.54	20.66	20.27	20.33	22.5	2
20	16QAM	50	24	20.51	20.62	20.69	20.28	20.39		
20	16QAM	50	50	20.47	20.56	20.68	20.38	20.43		
20	16QAM	100	0	20.50	20.49	20.67	20.32	20.39		
20	64QAM	1	0	20.13	20.18	20.21	20.06	20.19	22.5	2
20	64QAM	1	49	20.44	20.40	20.34	20.02	20.20		
20	64QAM	1	99	20.31	20.22	20.22	20.13	20.01		
20	64QAM	50	0	19.31	19.48	19.58	19.19	19.26	21.5	3
20	64QAM	50	24	19.47	19.57	19.65	19.23	19.35		
20	64QAM	50	50	19.42	19.49	19.63	19.32	19.35		
20	64QAM	100	0	19.55	19.54	19.67	19.34	19.08		



FCC SAR Test Report

Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.25	23.29	23.36	23.01	23.18	24.5	0
15	QPSK	1	37	23.22	23.31	23.38	23.12	22.98		
15	QPSK	1	74	23.36	23.09	23.23	22.91	23.08		
15	QPSK	36	0	21.51	21.59	21.66	21.27	21.47	23.5	1
15	QPSK	36	20	21.46	21.57	21.63	21.35	21.42		
15	QPSK	36	39	21.54	21.57	21.64	21.35	21.45		
15	QPSK	75	0	21.60	21.59	21.69	21.35	21.49		
15	16QAM	1	0	21.30	21.03	21.09	21.02	21.12	23.5	1
15	16QAM	1	37	21.43	21.02	21.20	21.23	21.10		
15	16QAM	1	74	21.26	21.11	21.16	21.02	21.13		
15	16QAM	36	0	20.41	20.60	20.67	20.30	20.46	22.5	2
15	16QAM	36	20	20.52	20.57	20.65	20.30	20.45		
15	16QAM	36	39	20.57	20.49	20.63	20.30	20.42		
15	16QAM	75	0	20.61	20.64	20.72	20.42	20.50		
15	64QAM	1	0	20.37	20.36	20.46	20.06	20.37	22.5	2
15	64QAM	1	37	20.26	20.22	20.26	20.10	20.17		
15	64QAM	1	74	20.50	20.41	20.49	20.15	20.42		
15	64QAM	36	0	19.47	19.60	19.70	19.30	19.48	21.5	3
15	64QAM	36	20	19.55	19.62	19.69	19.35	19.49		
15	64QAM	36	39	19.56	19.53	19.67	19.33	19.47		
15	64QAM	75	0	19.60	19.64	19.72	19.40	19.50		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.48	23.54	23.20	23.02	22.85	24.5	0
10	QPSK	1	25	23.17	23.05	23.16	22.73	22.92		
10	QPSK	1	49	23.36	23.31	23.40	22.93	23.19		
10	QPSK	25	0	21.65	21.67	21.72	21.22	21.44	23.5	1
10	QPSK	25	12	21.62	21.62	21.71	21.28	21.41		
10	QPSK	25	25	21.73	21.69	21.71	21.28	21.44		
10	QPSK	50	0	21.60	21.66	21.65	21.29	21.41		
10	16QAM	1	0	21.33	21.26	21.33	21.02	21.07	23.5	1
10	16QAM	1	25	21.11	21.14	21.18	21.02	21.05		
10	16QAM	1	49	21.44	21.34	21.45	21.06	21.20		
10	16QAM	25	0	20.62	20.66	20.68	20.16	20.40	22.5	2
10	16QAM	25	12	20.60	20.69	20.69	20.30	20.41		
10	16QAM	25	25	20.73	20.70	20.71	20.27	20.43		
10	16QAM	50	0	20.66	20.67	20.69	20.31	20.44		
10	64QAM	1	0	20.78	20.56	20.65	20.10	20.41	22.5	2
10	64QAM	1	25	20.62	20.37	20.40	20.09	20.27		
10	64QAM	1	49	20.87	20.63	20.72	20.30	20.53		
10	64QAM	25	0	19.58	19.58	19.65	19.11	19.33	21.5	3
10	64QAM	25	12	19.58	19.64	19.66	19.26	19.38		
10	64QAM	25	25	19.72	19.69	19.69	19.24	19.40		
10	64QAM	50	0	19.57	19.61	19.62	19.23	19.38		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.22	23.31	23.28	22.87	23.02	24.5	0
5	QPSK	1	12	23.06	23.14	23.10	22.68	22.79		
5	QPSK	1	24	23.11	23.08	23.08	22.66	22.81		
5	QPSK	12	0	21.69	21.66	21.69	21.27	21.39	23.5	1
5	QPSK	12	7	21.63	21.66	21.67	21.23	21.38		
5	QPSK	12	13	21.63	21.63	21.62	21.20	21.35		
5	QPSK	25	0	21.66	21.64	21.68	21.28	21.39		
5	16QAM	1	0	21.18	21.21	21.24	21.20	21.02	23.5	1
5	16QAM	1	12	21.11	21.31	21.47	21.03	21.04		
5	16QAM	1	24	21.11	21.17	21.17	21.06	21.00		
5	16QAM	12	0	20.59	20.62	20.73	20.30	20.38	22.5	2
5	16QAM	12	7	20.58	20.66	20.71	20.28	20.36		
5	16QAM	12	13	20.57	20.65	20.66	20.27	20.35		
5	16QAM	25	0	20.63	20.65	20.69	20.26	20.38		
5	64QAM	1	0	20.76	20.52	20.56	20.09	20.32	22.5	2
5	64QAM	1	12	20.56	20.52	20.53	20.10	20.23		
5	64QAM	1	24	20.59	20.50	20.48	20.00	20.22		
5	64QAM	12	0	19.62	19.63	19.73	19.27	19.37	21.5	3
5	64QAM	12	7	19.60	19.66	19.72	19.30	19.39		
5	64QAM	12	13	19.61	19.63	19.69	19.25	19.36		
5	64QAM	25	0	19.60	19.60	19.65	19.17	19.32		

<Reduced Power Mode for P-Sensor On>
<LTE Band 41 Power Class 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.80	23.78	23.81	23.79	23.70	24	0
20	QPSK	1	49	23.19	23.61	23.63	23.49	23.49		
20	QPSK	1	99	23.45	23.51	23.58	23.60	23.63		
20	QPSK	50	0	23.62	23.67	23.80	23.44	23.66	24	0
20	QPSK	50	24	23.72	23.75	23.76	23.76	23.79		
20	QPSK	50	50	23.35	23.46	23.81	23.80	23.74		
20	QPSK	100	0	23.74	23.64	23.83	23.76	23.71		
20	16QAM	1	0	23.59	23.35	23.52	23.54	23.49	24	0
20	16QAM	1	49	23.45	23.82	23.84	23.91	23.90		
20	16QAM	1	99	23.68	23.29	23.82	23.59	23.92		
20	16QAM	50	0	23.70	23.43	23.92	23.91	23.76	24	0
20	16QAM	50	24	23.86	23.86	23.85	23.73	23.80		
20	16QAM	50	50	23.77	23.77	23.91	23.92	23.87		
20	16QAM	100	0	23.80	23.64	23.89	23.63	23.71		
20	64QAM	1	0	23.25	23.13	23.40	23.31	23.27	24	0
20	64QAM	1	49	23.58	23.61	23.81	23.55	23.70		
20	64QAM	1	99	23.55	23.43	23.60	23.31	23.48		
20	64QAM	50	0	23.64	23.64	23.79	23.71	23.49	24	0
20	64QAM	50	24	23.68	23.80	23.49	23.48	23.75		
20	64QAM	50	50	23.72	23.70	23.83	23.75	23.82		
20	64QAM	100	0	23.38	23.68	23.78	23.67	23.87		



FCC SAR Test Report

Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.82	23.67	23.73	23.63	23.72	24	0
15	QPSK	1	37	23.52	23.82	23.55	23.68	23.59		
15	QPSK	1	74	23.74	23.85	23.98	23.93	23.87		
15	QPSK	36	0	23.69	23.75	23.51	23.37	23.75	24	0
15	QPSK	36	20	23.78	23.74	23.85	23.80	23.84		
15	QPSK	36	39	23.76	23.71	23.88	23.84	23.86		
15	QPSK	75	0	23.83	23.84	23.89	23.82	23.83		
15	16QAM	1	0	23.52	23.80	23.96	23.85	23.92	24	0
15	16QAM	1	37	23.32	23.78	23.67	23.47	23.72		
15	16QAM	1	74	23.96	23.69	23.67	23.71	23.79		
15	16QAM	36	0	23.82	23.86	23.92	23.77	23.90	24	0
15	16QAM	36	20	23.76	23.76	23.87	23.75	23.79		
15	16QAM	36	39	23.32	23.79	23.93	23.82	23.84		
15	16QAM	75	0	23.82	23.83	23.94	23.59	23.94		
15	64QAM	1	0	23.97	23.67	23.73	23.64	23.80	24	0
15	64QAM	1	37	23.91	23.52	23.73	23.64	23.51		
15	64QAM	1	74	23.73	23.55	23.95	23.66	23.76		
15	64QAM	36	0	23.83	23.47	23.93	23.48	23.92	24	0
15	64QAM	36	20	23.77	23.78	23.88	23.90	23.81		
15	64QAM	36	39	23.76	23.80	23.94	23.85	23.87		
15	64QAM	75	0	23.91	23.82	23.92	23.93	23.94		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.69	23.41	23.63	23.84	23.89	24	0
10	QPSK	1	25	23.68	23.45	23.45	23.00	23.10		
10	QPSK	1	49	23.80	23.79	23.71	23.33	23.40		
10	QPSK	25	0	23.57	23.79	23.76	23.53	23.67	24	0
10	QPSK	25	12	23.88	23.80	23.71	23.65	23.65		
10	QPSK	25	25	23.97	23.82	23.77	23.63	23.67		
10	QPSK	50	0	23.86	23.76	23.41	23.65	23.66		
10	16QAM	1	0	23.89	23.90	23.95	23.74	23.82	24	0
10	16QAM	1	25	23.80	23.80	23.66	23.66	23.71		
10	16QAM	1	49	23.94	23.91	23.79	23.87	23.90		
10	16QAM	25	0	23.91	23.84	23.53	23.54	23.67	24	0
10	16QAM	25	12	23.96	23.59	23.72	23.63	23.65		
10	16QAM	25	25	23.95	23.88	23.69	23.65	23.72		
10	16QAM	50	0	23.90	23.89	23.70	23.65	23.69		
10	64QAM	1	0	23.82	23.97	23.79	23.39	23.57	24	0
10	64QAM	1	25	23.65	23.92	23.84	23.30	23.38		
10	64QAM	1	49	23.79	23.53	23.85	23.63	23.71		
10	64QAM	25	0	23.95	23.48	23.36	23.47	23.60	24	0
10	64QAM	25	12	23.88	23.82	23.79	23.62	23.64		
10	64QAM	25	25	23.88	23.91	23.62	23.61	23.67		
10	64QAM	50	0	23.84	23.85	23.62	23.59	23.63		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.54	23.50	23.46	23.87	23.88	24	0
5	QPSK	1	12	23.69	23.77	23.49	23.09	23.05		
5	QPSK	1	24	23.74	23.69	23.60	22.98	23.07		
5	QPSK	12	0	23.87	23.71	23.59	23.63	23.61	24	0
5	QPSK	12	7	23.86	23.85	23.61	23.64	23.60		
5	QPSK	12	13	23.77	23.79	23.64	23.61	23.63		
5	QPSK	25	0	23.90	23.89	23.62	23.59	23.61		
5	16QAM	1	0	23.89	23.97	23.96	23.72	23.74	24	0
5	16QAM	1	12	23.96	23.94	23.92	23.87	23.77		
5	16QAM	1	24	23.93	23.84	23.93	23.68	23.67		
5	16QAM	12	0	23.90	23.80	23.80	23.69	23.63	24	0
5	16QAM	12	7	23.92	23.84	23.84	23.64	23.63		
5	16QAM	12	13	23.84	23.90	23.64	23.61	23.58		
5	16QAM	25	0	23.86	23.90	23.63	23.64	23.61		
5	64QAM	1	0	23.88	23.81	23.75	23.48	23.52	24	0
5	64QAM	1	12	23.86	23.90	23.79	23.44	23.38		
5	64QAM	1	24	23.90	23.69	23.71	23.41	23.43		
5	64QAM	12	0	23.94	23.87	23.75	23.69	23.62	24	0
5	64QAM	12	7	23.97	23.92	23.36	23.70	23.63		
5	64QAM	12	13	23.91	23.90	23.83	23.67	23.64		
5	64QAM	25	0	23.89	23.89	23.71	23.61	23.59		

<LTE Band 41 Power Class 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.79	22.91	23.06	22.61	22.77	24	0
20	QPSK	1	49	22.84	22.94	23.04	22.57	22.71		
20	QPSK	1	99	22.83	22.89	22.96	22.65	22.35		
20	QPSK	50	0	21.47	21.52	21.74	21.26	21.50	23	1
20	QPSK	50	24	21.47	21.57	21.67	21.26	21.36		
20	QPSK	50	50	21.46	21.52	21.66	21.30	21.39		
20	QPSK	100	0	21.48	21.48	21.70	21.32	21.36		
20	16QAM	1	0	21.20	21.21	21.30	21.02	21.13	23	1
20	16QAM	1	49	21.59	21.62	21.70	21.25	21.46		
20	16QAM	1	99	21.56	21.41	21.52	21.23	21.38		
20	16QAM	50	0	20.40	20.54	20.66	20.27	20.33	22	2
20	16QAM	50	24	20.51	20.62	20.69	20.28	20.39		
20	16QAM	50	50	20.47	20.56	20.68	20.38	20.43		
20	16QAM	100	0	20.50	20.49	20.67	20.32	20.39		
20	64QAM	1	0	20.13	20.18	20.21	20.06	20.19	22	2
20	64QAM	1	49	20.44	20.40	20.34	20.02	20.20		
20	64QAM	1	99	20.31	20.22	20.22	20.13	20.01		
20	64QAM	50	0	19.31	19.48	19.58	19.19	19.26	21	3
20	64QAM	50	24	19.47	19.57	19.65	19.23	19.35		
20	64QAM	50	50	19.42	19.49	19.63	19.32	19.35		
20	64QAM	100	0	19.55	19.54	19.67	19.34	19.08		



FCC SAR Test Report

Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.25	23.29	23.36	23.01	23.18	24	0
15	QPSK	1	37	23.22	23.31	23.38	23.12	22.98		
15	QPSK	1	74	23.36	23.09	23.23	22.91	23.08		
15	QPSK	36	0	21.51	21.59	21.66	21.27	21.47	23	1
15	QPSK	36	20	21.46	21.57	21.63	21.35	21.42		
15	QPSK	36	39	21.54	21.57	21.64	21.35	21.45		
15	QPSK	75	0	21.60	21.59	21.69	21.35	21.49		
15	16QAM	1	0	21.30	21.03	21.09	21.02	21.12	23	1
15	16QAM	1	37	21.43	21.02	21.20	21.23	21.10		
15	16QAM	1	74	21.26	21.11	21.16	21.02	21.13		
15	16QAM	36	0	20.41	20.60	20.67	20.30	20.46	22	2
15	16QAM	36	20	20.52	20.57	20.65	20.30	20.45		
15	16QAM	36	39	20.57	20.49	20.63	20.30	20.42		
15	16QAM	75	0	20.61	20.64	20.72	20.42	20.50		
15	64QAM	1	0	20.37	20.36	20.46	20.06	20.37	22	2
15	64QAM	1	37	20.26	20.22	20.26	20.10	20.17		
15	64QAM	1	74	20.50	20.41	20.49	20.15	20.42		
15	64QAM	36	0	19.47	19.60	19.70	19.30	19.48	21	3
15	64QAM	36	20	19.55	19.62	19.69	19.35	19.49		
15	64QAM	36	39	19.56	19.53	19.67	19.33	19.47		
15	64QAM	75	0	19.60	19.64	19.72	19.40	19.50		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.48	23.54	23.20	23.02	22.85	24	0
10	QPSK	1	25	23.17	23.05	23.16	22.73	22.92		
10	QPSK	1	49	23.36	23.31	23.40	22.93	23.19		
10	QPSK	25	0	21.65	21.67	21.72	21.22	21.44	23	1
10	QPSK	25	12	21.62	21.62	21.71	21.28	21.41		
10	QPSK	25	25	21.73	21.69	21.71	21.28	21.44		
10	QPSK	50	0	21.60	21.66	21.65	21.29	21.41		
10	16QAM	1	0	21.33	21.26	21.33	21.02	21.07	23	1
10	16QAM	1	25	21.11	21.14	21.18	21.02	21.05		
10	16QAM	1	49	21.44	21.34	21.45	21.06	21.20		
10	16QAM	25	0	20.62	20.66	20.68	20.16	20.40	22	2
10	16QAM	25	12	20.60	20.69	20.69	20.30	20.41		
10	16QAM	25	25	20.73	20.70	20.71	20.27	20.43		
10	16QAM	50	0	20.66	20.67	20.69	20.31	20.44		
10	64QAM	1	0	20.78	20.56	20.65	20.10	20.41	22	2
10	64QAM	1	25	20.62	20.37	20.40	20.09	20.27		
10	64QAM	1	49	20.87	20.63	20.72	20.30	20.53		
10	64QAM	25	0	19.58	19.58	19.65	19.11	19.33	21	3
10	64QAM	25	12	19.58	19.64	19.66	19.26	19.38		
10	64QAM	25	25	19.72	19.69	19.69	19.24	19.40		
10	64QAM	50	0	19.57	19.61	19.62	19.23	19.38		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.22	23.31	23.28	22.87	23.02	24	0
5	QPSK	1	12	23.06	23.14	23.10	22.68	22.79		
5	QPSK	1	24	23.11	23.08	23.08	22.66	22.81		
5	QPSK	12	0	21.69	21.66	21.69	21.27	21.39	23	1
5	QPSK	12	7	21.63	21.66	21.67	21.23	21.38		
5	QPSK	12	13	21.63	21.63	21.62	21.20	21.35		
5	QPSK	25	0	21.66	21.64	21.68	21.28	21.39		
5	16QAM	1	0	21.18	21.21	21.24	21.20	21.02	23	1
5	16QAM	1	12	21.11	21.31	21.47	21.03	21.04		
5	16QAM	1	24	21.11	21.17	21.17	21.06	21.00		
5	16QAM	12	0	20.59	20.62	20.73	20.30	20.38	22	2
5	16QAM	12	7	20.58	20.66	20.71	20.28	20.36		
5	16QAM	12	13	20.57	20.65	20.66	20.27	20.35		
5	16QAM	25	0	20.63	20.65	20.69	20.26	20.38		
5	64QAM	1	0	20.76	20.52	20.56	20.09	20.32	22	2
5	64QAM	1	12	20.56	20.52	20.53	20.10	20.23		
5	64QAM	1	24	20.59	20.50	20.48	20.00	20.22		
5	64QAM	12	0	19.62	19.63	19.73	19.27	19.37	21	3
5	64QAM	12	7	19.60	19.66	19.72	19.30	19.39		
5	64QAM	12	13	19.61	19.63	19.69	19.25	19.36		
5	64QAM	25	0	19.60	19.60	19.65	19.17	19.32		

<Reduced Power Mode for Hotspot On>

<LTE Band 38>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	22.08	22.07	22.07	23	0
20	QPSK	1	49	21.91	21.84	21.83		
20	QPSK	1	99	21.85	21.73	21.73		
20	QPSK	50	0	21.76	21.68	21.68	23	0
20	QPSK	50	24	21.98	21.92	21.92		
20	QPSK	50	50	21.92	21.81	21.83		
20	QPSK	100	0	21.79	21.80	21.83	23	0
20	16QAM	1	0	21.66	21.56	21.59		
20	16QAM	1	49	22.01	21.88	21.91		
20	16QAM	1	99	21.81	21.66	21.67	23	0
20	16QAM	50	0	21.33	21.22	21.22		
20	16QAM	50	24	21.53	21.42	21.43		
20	16QAM	50	50	21.50	21.37	21.35	23	0
20	16QAM	100	0	21.33	21.33	21.33		
20	64QAM	1	0	21.41	21.26	21.27		
20	64QAM	1	49	21.76	21.62	21.63	23	0
20	64QAM	1	99	21.57	21.37	21.39		
20	64QAM	50	0	21.26	21.15	21.15		
20	64QAM	50	24	21.46	21.35	21.39	23	0
20	64QAM	50	50	21.43	21.30	21.31		
20	64QAM	100	0	21.37	21.39	21.36		



FCC SAR Test Report

Report No. : FA892801

Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	22.11	21.97	22.00	23	0
15	QPSK	1	37	22.06	22.00	21.99		
15	QPSK	1	74	21.93	21.79	21.76		
15	QPSK	36	0	21.82	21.79	21.77	23	0
15	QPSK	36	20	21.94	21.87	21.88		
15	QPSK	36	39	22.01	21.88	21.83		
15	QPSK	75	0	21.87	21.81	21.80		
15	16QAM	1	0	21.72	21.57	21.58	23	0
15	16QAM	1	37	21.84	21.54	21.45		
15	16QAM	1	74	21.90	21.73	21.73		
15	16QAM	36	0	21.31	21.32	21.29	23	0
15	16QAM	36	20	21.44	21.39	21.38		
15	16QAM	36	39	21.49	21.36	21.34		
15	16QAM	75	0	21.41	21.38	21.35		
15	64QAM	1	0	21.52	21.32	21.27	23	0
15	64QAM	1	37	21.52	21.45	21.42		
15	64QAM	1	74	21.65	21.44	21.43		
15	64QAM	36	0	21.37	21.34	21.33	23	0
15	64QAM	36	20	21.46	21.42	21.42		
15	64QAM	36	39	21.52	21.39	21.37		
15	64QAM	75	0	21.41	21.38	21.35		
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	22.28	21.98	22.20	23	0
10	QPSK	1	25	21.74	21.77	21.80		
10	QPSK	1	49	22.11	22.05	21.98		
10	QPSK	25	0	21.85	21.91	21.95	23	0
10	QPSK	25	12	21.84	21.81	21.92		
10	QPSK	25	25	21.83	21.86	21.91		
10	QPSK	50	0	21.81	21.89	21.91		
10	16QAM	1	0	21.99	21.99	21.97	23	0
10	16QAM	1	25	21.86	21.88	21.90		
10	16QAM	1	49	22.11	22.07	22.07		
10	16QAM	25	0	21.36	21.39	21.44	23	0
10	16QAM	25	12	21.34	21.38	21.40		
10	16QAM	25	25	21.36	21.43	21.42		
10	16QAM	50	0	21.38	21.40	21.44		
10	64QAM	1	0	21.67	21.73	21.64	23	0
10	64QAM	1	25	21.58	21.56	21.55		
10	64QAM	1	49	21.87	21.78	21.85		
10	64QAM	25	0	21.29	21.32	21.38	23	0
10	64QAM	25	12	21.30	21.33	21.39		
10	64QAM	25	25	21.34	21.38	21.41		
10	64QAM	50	0	21.30	21.33	21.39		



FCC SAR Test Report

Report No. : FA892801

Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	22.27	22.26	22.20	23	0
5	QPSK	1	12	21.82	21.86	21.86		
5	QPSK	1	24	21.80	21.82	21.80		
5	QPSK	12	0	21.88	21.88	21.91	23	0
5	QPSK	12	7	21.88	21.91	21.90		
5	QPSK	12	13	21.85	21.88	21.87		
5	QPSK	25	0	21.88	21.85	21.91		
5	16QAM	1	0	21.92	21.99	22.00	23	0
5	16QAM	1	12	22.02	22.05	22.08		
5	16QAM	1	24	21.84	21.90	21.94		
5	16QAM	12	0	21.43	21.39	21.46	23	0
5	16QAM	12	7	21.39	21.40	21.44		
5	16QAM	12	13	21.34	21.35	21.39		
5	16QAM	25	0	21.37	21.39	21.42		
5	64QAM	1	0	21.71	21.70	21.72	23	0
5	64QAM	1	12	21.64	21.62	21.68		
5	64QAM	1	24	21.59	21.58	21.66		
5	64QAM	12	0	21.34	21.38	21.40	23	0
5	64QAM	12	7	21.39	21.43	21.43		
5	64QAM	12	13	21.36	21.38	21.44		
5	64QAM	25	0	21.33	21.34	21.36		



<LTE Band 41 Power Class 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.16	22.00	22.45	22.02	22.12	23	0
20	QPSK	1	49	22.03	22.36	22.42	22.35	22.39		
20	QPSK	1	99	22.02	22.31	22.19	22.43	22.03		
20	QPSK	50	0	22.34	22.44	22.62	22.47	22.46	23	0
20	QPSK	50	24	22.48	22.53	22.61	22.54	22.31		
20	QPSK	50	50	22.22	22.27	22.46	22.57	22.48		
20	QPSK	100	0	22.45	22.39	22.62	22.54	22.45		
20	16QAM	1	0	22.33	22.18	22.29	22.23	22.28	23	0
20	16QAM	1	49	22.59	22.51	22.64	22.49	22.56		
20	16QAM	1	99	22.33	22.41	22.47	22.44	22.30		
20	16QAM	50	0	22.40	22.56	22.59	22.50	22.50	23	0
20	16QAM	50	24	22.46	22.59	22.66	22.47	22.57		
20	16QAM	50	50	22.51	22.50	22.70	22.69	22.43		
20	16QAM	100	0	22.51	22.49	22.37	22.55	22.49		
20	64QAM	1	0	22.29	22.11	22.15	21.97	22.21	23	0
20	64QAM	1	49	22.57	22.44	22.31	22.12	22.36		
20	64QAM	1	99	22.10	22.24	22.19	22.30	22.29		
20	64QAM	50	0	22.39	22.47	22.57	22.43	22.45	23	0
20	64QAM	50	24	22.50	22.33	22.59	22.29	22.31		
20	64QAM	50	50	22.43	22.43	22.63	22.52	22.47		
20	64QAM	100	0	22.34	22.51	22.70	22.58	22.42		



FCC SAR Test Report

Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.35	22.47	22.54	22.32	22.30	23	0
15	QPSK	1	37	22.28	22.58	22.67	22.55	22.55		
15	QPSK	1	74	22.26	22.63	22.75	22.52	22.61		
15	QPSK	36	0	22.49	22.28	22.59	22.32	22.52	23	0
15	QPSK	36	20	22.44	22.48	22.64	22.62	22.52		
15	QPSK	36	39	22.55	22.49	22.60	22.55	22.56		
15	QPSK	75	0	22.50	22.58	22.68	22.63	22.44		
15	16QAM	1	0	22.66	22.61	22.67	22.63	22.67	23	0
15	16QAM	1	37	22.60	22.40	22.37	22.33	22.64		
15	16QAM	1	74	22.54	22.72	22.77	22.60	22.70		
15	16QAM	36	0	22.42	22.35	22.72	22.62	22.61	23	0
15	16QAM	36	20	22.49	22.47	22.64	22.61	22.52		
15	16QAM	36	39	22.51	22.49	22.62	22.62	22.57		
15	16QAM	75	0	22.54	22.62	22.73	22.63	22.66		
15	64QAM	1	0	22.64	22.47	22.78	22.49	22.61	23	0
15	64QAM	1	37	22.87	22.43	22.47	22.30	22.65		
15	64QAM	1	74	22.51	22.28	22.63	22.56	22.68		
15	64QAM	36	0	22.43	22.55	22.41	22.64	22.43	23	0
15	64QAM	36	20	22.50	22.49	22.49	22.62	22.53		
15	64QAM	36	39	22.52	22.51	22.73	22.63	22.59		
15	64QAM	75	0	22.65	22.61	22.72	22.41	22.65		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.29	22.47	22.53	22.40	22.44	23	0
10	QPSK	1	25	22.53	22.43	22.53	22.21	22.32		
10	QPSK	1	49	22.49	22.68	22.79	22.41	22.46		
10	QPSK	25	0	22.64	22.28	22.65	22.42	22.51	23	0
10	QPSK	25	12	22.63	22.38	22.69	22.46	22.38		
10	QPSK	25	25	22.68	22.65	22.49	22.48	22.50		
10	QPSK	50	0	22.53	22.56	22.67	22.54	22.44		
10	16QAM	1	0	22.98	22.89	22.92	22.76	22.89	23	0
10	16QAM	1	25	22.66	22.78	22.81	22.66	22.59		
10	16QAM	1	49	22.57	22.66	22.90	22.74	22.80		
10	16QAM	25	0	22.64	22.54	22.65	22.25	22.46	23	0
10	16QAM	25	12	22.68	22.64	22.49	22.41	22.54		
10	16QAM	25	25	22.82	22.61	22.67	22.50	22.54		
10	16QAM	50	0	22.62	22.61	22.64	22.55	22.49		
10	64QAM	1	0	22.83	22.63	22.78	22.40	22.67	23	0
10	64QAM	1	25	22.62	22.64	22.57	22.41	22.58		
10	64QAM	1	49	22.44	22.50	22.75	22.59	22.48		
10	64QAM	25	0	22.40	22.58	22.44	22.29	22.51	23	0
10	64QAM	25	12	22.55	22.59	22.49	22.55	22.57		
10	64QAM	25	25	22.76	22.43	22.72	22.44	22.49		
10	64QAM	50	0	22.57	22.34	22.57	22.48	22.42		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.44	22.57	22.38	22.33	22.46	23	0
5	QPSK	1	12	22.42	22.45	22.56	22.41	22.32		
5	QPSK	1	24	22.43	22.50	22.56	22.33	22.30		
5	QPSK	12	0	22.68	22.53	22.68	22.51	22.53	23	0
5	QPSK	12	7	22.65	22.58	22.59	22.54	22.45		
5	QPSK	12	13	22.63	22.53	22.61	22.46	22.37		
5	QPSK	25	0	22.66	22.60	22.62	22.46	22.46		
5	16QAM	1	0	22.66	22.54	22.83	22.74	22.65	23	0
5	16QAM	1	12	22.51	22.89	22.93	22.65	22.77		
5	16QAM	1	24	22.67	22.58	22.84	22.68	22.59		
5	16QAM	12	0	22.64	22.37	22.74	22.53	22.36	23	0
5	16QAM	12	7	22.62	22.62	22.65	22.55	22.38		
5	16QAM	12	13	22.60	22.57	22.67	22.49	22.40		
5	16QAM	25	0	22.65	22.67	22.70	22.51	22.43		
5	64QAM	1	0	22.78	22.62	22.71	22.43	22.47	23	0
5	64QAM	1	12	22.60	22.66	22.61	22.61	22.58		
5	64QAM	1	24	22.67	22.56	22.64	22.46	22.48		
5	64QAM	12	0	22.60	22.61	22.69	22.58	22.42	23	0
5	64QAM	12	7	22.59	22.57	22.71	22.51	22.45		
5	64QAM	12	13	22.57	22.63	22.71	22.54	22.47		
5	64QAM	25	0	22.51	22.60	22.62	22.54	22.47		

<LTE Band 41 Power Class 3>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.34	22.24	22.54	22.30	22.24	23	0
20	QPSK	1	49	22.27	22.53	22.53	22.34	22.48		
20	QPSK	1	99	22.39	22.34	22.34	22.11	22.28		
20	QPSK	50	0	22.40	22.54	22.68	22.61	22.57	23	0
20	QPSK	50	24	22.54	22.57	22.66	22.57	22.52		
20	QPSK	50	50	22.62	22.50	22.50	22.62	22.56		
20	QPSK	100	0	22.56	22.49	22.70	22.68	22.54		
20	16QAM	1	0	20.81	20.61	20.91	20.92	20.82	22	1
20	16QAM	1	49	21.05	21.11	21.07	21.05	21.07		
20	16QAM	1	99	20.64	20.99	20.98	20.89	20.92		
20	16QAM	50	0	21.45	21.58	21.65	21.58	21.51	22	1
20	16QAM	50	24	21.59	21.58	21.76	21.53	21.61		
20	16QAM	50	50	21.50	21.53	21.64	21.67	21.55		
20	16QAM	100	0	21.54	21.52	21.71	21.62	21.61		
20	64QAM	1	0	20.51	20.46	20.45	20.46	20.43	22	1
20	64QAM	1	49	20.90	20.66	20.71	20.49	20.71		
20	64QAM	1	99	20.68	20.58	20.62	20.54	20.65		
20	64QAM	50	0	21.39	21.42	21.58	21.52	21.46	22	1
20	64QAM	50	24	21.53	21.54	21.61	21.59	21.55		
20	64QAM	50	50	21.45	21.48	21.67	21.63	21.50		
20	64QAM	100	0	21.58	21.46	21.75	21.67	21.58		



FCC SAR Test Report

Report No. : FA892801

Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.42	22.47	22.48	22.38	22.40	23	0
15	QPSK	1	37	22.59	22.68	22.71	22.60	22.56		
15	QPSK	1	74	22.66	22.62	22.73	22.78	22.72		
15	QPSK	36	0	22.46	22.50	22.63	22.47	22.50	23	0
15	QPSK	36	20	22.54	22.54	22.67	22.53	22.52		
15	QPSK	36	39	22.62	22.58	22.65	22.61	22.57		
15	QPSK	75	0	22.59	22.58	22.61	22.59	22.61		
15	16QAM	1	0	21.22	21.05	21.30	21.17	21.25	22	1
15	16QAM	1	37	20.75	20.89	20.85	20.78	20.76		
15	16QAM	1	74	21.29	21.09	21.27	20.96	21.35		
15	16QAM	36	0	21.42	21.59	21.68	21.51	21.54	22	1
15	16QAM	36	20	21.47	21.54	21.63	21.57	21.55		
15	16QAM	36	39	21.47	21.54	21.70	21.65	21.50		
15	16QAM	75	0	21.65	21.58	21.70	21.68	21.60		
15	64QAM	1	0	21.12	20.83	20.74	20.63	20.82	22	1
15	64QAM	1	37	20.88	20.72	20.64	20.52	20.62		
15	64QAM	1	74	20.94	20.84	20.85	20.69	20.92		
15	64QAM	36	0	21.46	21.64	21.68	21.54	21.57	22	1
15	64QAM	36	20	21.50	21.62	21.62	21.61	21.59		
15	64QAM	36	39	21.49	21.59	21.71	21.58	21.62		
15	64QAM	75	0	21.66	21.60	21.68	21.68	21.68		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.55	22.47	22.60	22.40	22.48	23	0
10	QPSK	1	25	22.61	22.43	22.46	22.37	22.40		
10	QPSK	1	49	22.75	22.61	22.80	22.48	22.60		
10	QPSK	25	0	22.71	22.62	22.69	22.53	22.56	23	0
10	QPSK	25	12	22.60	22.62	22.65	22.43	22.46		
10	QPSK	25	25	22.72	22.66	22.68	22.51	22.56		
10	QPSK	50	0	22.65	22.56	22.61	22.44	22.50		
10	16QAM	1	0	21.33	21.37	21.50	21.24	21.30	22	1
10	16QAM	1	25	21.14	21.29	21.39	21.28	21.18		
10	16QAM	1	49	21.14	21.26	21.32	21.05	21.20		
10	16QAM	25	0	21.68	21.57	21.62	21.49	21.45	22	1
10	16QAM	25	12	21.65	21.53	21.64	21.53	21.53		
10	16QAM	25	25	21.69	21.60	21.67	21.49	21.54		
10	16QAM	50	0	21.72	21.63	21.73	21.52	21.49		
10	64QAM	1	0	21.19	20.92	21.05	20.69	20.95	22	1
10	64QAM	1	25	21.01	20.84	20.93	20.69	20.82		
10	64QAM	1	49	21.10	21.11	20.99	20.80	20.74		
10	64QAM	25	0	21.62	21.61	21.58	21.45	21.42	22	1
10	64QAM	25	12	21.59	21.61	21.61	21.50	21.48		
10	64QAM	25	25	21.73	21.64	21.62	21.44	21.48		
10	64QAM	50	0	21.58	21.57	21.67	21.46	21.52		



FCC SAR Test Report

Report No. : FA892801

Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.56	22.55	22.60	22.46	22.42	23	0
5	QPSK	1	12	22.54	22.56	22.58	22.49	22.44		
5	QPSK	1	24	22.53	22.56	22.56	22.39	22.37		
5	QPSK	12	0	22.64	22.55	22.71	22.53	22.47	23	0
5	QPSK	12	7	22.69	22.60	22.73	22.53	22.48		
5	QPSK	12	13	22.58	22.54	22.78	22.47	22.51		
5	QPSK	25	0	22.62	22.61	22.78	22.48	22.50		
5	16QAM	1	0	21.34	21.30	21.40	21.04	21.51	22	1
5	16QAM	1	12	21.28	21.41	21.41	21.48	21.17		
5	16QAM	1	24	21.16	21.19	21.15	21.21	21.08		
5	16QAM	12	0	21.56	21.64	21.78	21.57	21.50	22	1
5	16QAM	12	7	21.62	21.60	21.70	21.44	21.43		
5	16QAM	12	13	21.70	21.55	21.71	21.51	21.43		
5	16QAM	25	0	21.68	21.59	21.69	21.55	21.40		
5	64QAM	1	0	21.17	21.01	20.99	20.82	20.82	22	1
5	64QAM	1	12	21.06	20.86	21.08	20.80	20.81		
5	64QAM	1	24	21.00	20.95	20.90	20.75	20.70		
5	64QAM	12	0	21.57	21.54	21.68	21.56	21.52	22	1
5	64QAM	12	7	21.62	21.59	21.70	21.58	21.54		
5	64QAM	12	13	21.59	21.63	21.71	21.55	21.44		
5	64QAM	25	0	21.55	21.61	21.63	21.37	21.46		

**<LTE Carrier Aggregation>****General Note:**

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.

Index	2CC
2CC #1	CA_2A-4A
2CC #2	CA_2A-5A
2CC #3	CA_2A-7A
2CC #4	CA_2A-12A
2CC #5	CA_2A-13A
2CC #6	CA_2A-14A
2CC #7	CA_2A-17A
2CC #8	CA_2A-29A
2CC #9	CA_2A-30A
2CC #10	CA_2A-66A
2CC #11	CA_2A-71A
2CC #12	CA_4A-5A
2CC #13	CA_4A-7A
2CC #14	CA_4A-12A
2CC #15	CA_4A-13A
2CC #16	CA_4A-17A
2CC #17	CA_4A-29A
2CC #18	CA_4A-30A
2CC #19	CA_4A-71A
2CC #20	CA_5A-7A
2CC #21	CA_5A-30A
2CC #22	CA_5A-66A
2CC #23	CA_7A-12A
2CC #24	CA_7A-66A
2CC #25	CA_12A-30A
2CC #26	CA_12A-66A
2CC #27	CA_13A-66A
2CC #28	CA_14A-30A
2CC #29	CA_14A-66A
2CC #30	CA_25A-26A
2CC #31	CA_29A-30A
2CC #32	CA_29A-66A
2CC #33	CA_30A-66A
2CC #34	CA_66A-71A
2CC #35	CA_2C
2CC #36	CA_5B
2CC #37	CA_7C
2CC #38	CA_12B
2CC #39	CA_38C
2CC #40	CA_41C
2CC #41	CA_66B
2CC #42	CA_66C
2CC #43	CA_2A-2A
2CC #44	CA_4A-4A
2CC #45	CA_7A-7A
2CC #46	CA_25A-25A
2CC #47	CA_41A-41A
2CC #48	CA_66A-66A

LTE Carrier Aggregation Conducted Power (Downlink)

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. The device supports uplink carrier aggregation for LTE B41C only for power class 3 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the above 3GPP requirement.
- vi. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vii. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- viii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$



<Full Power Mode>

Configure	PCC							SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	Band 2	20M	1860	18700	QPSK	1	49	Band 4	20M	2132.5	2175	22.34	22.52
	Band 4	20M	1745	20300	QPSK	1	49	Band 2	20M	1960	900	22.35	22.53
	Band 2	20M	1860	18700	QPSK	1	49	Band 5	10M	881.5	2525	22.34	22.52
	Band 5	10M	829	20450	QPSK	1	0	Band 2	20M	1960	900	22.65	22.98
	Band 2	20M	1860	18700	QPSK	1	49	Band 7	20M	2655	3100	22.34	22.52
	Band 7	20M	2560	21350	QPSK	1	49	Band 2	20M	1960	900	23.36	23.67
	Band 2	20M	1860	18700	QPSK	1	49	Band 12	10M	737.5	5095	22.34	22.52
	Band 12	10M	707.5	23095	QPSK	1	49	Band 2	20M	1960	900	22.69	22.88
	Band 2	20M	1860	18700	QPSK	1	49	Band 13	10M	751	5230	22.34	22.52
	Band 13	10M	782	23230	QPSK	1	49	Band 2	20M	1960	900	22.55	22.73
	Band 2	20M	1860	18700	QPSK	1	49	Band 14	10M	763	5530	22.34	22.52
	Band 14	10M	793	23330	QPSK	1	0	Band 2	20M	1960	900	22.66	22.94
	Band 2	20M	1860	18700	QPSK	1	49	Band 17	10M	740	5790	22.34	22.52
	Band 17	10M	709	23780	QPSK	1	0	Band 2	10M	1960	900	22.53	22.72
	Band 2	20M	1860	18700	QPSK	1	49	Band 29	10M	722.5	9715	22.34	22.52
	Band 2	20M	1860	18700	QPSK	1	49	Band 30	10M	2355	9820	22.34	22.52
	Band 30	10M	2310	27710	QPSK	1	49	Band 2	20M	1960	900	23.01	23.29
	Band 2	20M	1860	18700	QPSK	1	49	Band 66	20M	2155	66886	22.34	22.52
	Band 66	20M	1770	132572	QPSK	1	99	Band 2	20M	1960	900	22.86	23.10
	Band 2	20M	1860	18700	QPSK	1	49	Band 71	20M	637	68786	22.34	22.52
	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	22.92	23.10
	Band 4	20M	1745	20300	QPSK	1	49	Band 5	10M	881.5	2525	22.35	22.53
	Band 5	10M	829	20450	QPSK	1	0	Band 4	20M	2132.5	2175	22.65	22.98
	Band 4	20M	1745	20300	QPSK	1	49	Band 7	20M	2655	3100	22.35	22.53
	Band 7	20M	2560	21350	QPSK	1	49	Band 4	20M	2132.5	2175	23.36	23.67
	Band 4	20M	1745	20300	QPSK	1	49	Band 12	10M	737.5	5095	22.35	22.53
	Band 12	10M	707.5	23095	QPSK	1	49	Band 4	20M	2132.5	2175	22.69	22.88
	Band 4	20M	1745	20300	QPSK	1	49	Band 13	10M	751	5230	22.35	22.53
	Band 13	10M	782	23230	QPSK	1	49	Band 4	20M	2132.5	2175	22.55	22.73
	Band 4	10M	1715	20000	QPSK	1	49	Band 17	10M	740	5790	22.35	22.53
	Band 17	10M	709	23780	QPSK	1	0	Band 4	10M	2132.5	2175	22.53	22.72
	Band 4	20M	1745	20300	QPSK	1	49	Band 29	10M	722.5	9715	22.35	22.53
	Band 4	20M	1745	20300	QPSK	1	49	Band 30	10M	2355	9820	22.35	22.53
	Band 30	10M	2310	27710	QPSK	1	49	Band 4	20M	2132.5	2175	23.01	23.29
	Band 4	20M	1745	20300	QPSK	1	49	Band 71	20M	637	68786	22.35	22.53
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	22.92	23.10
	Band 5	10M	829	20450	QPSK	1	0	Band 7	20M	2655	3100	22.65	22.98
	Band 7	20M	2560	21350	QPSK	1	49	Band 5	10M	881.5	2525	23.36	23.67
	Band 5	10M	829	20450	QPSK	1	0	Band 30	10M	2355	9820	22.65	22.98
	Band 30	10M	2310	27710	QPSK	1	49	Band 5	10M	881.5	2525	23.01	23.29
	Band 5	10M	829	20450	QPSK	1	0	Band 66	20M	2155	66886	22.65	22.98
	Band 66	20M	1770	132572	QPSK	1	99	Band 5	10M	881.5	2525	22.86	23.10
	Band 7	20M	2560	21350	QPSK	1	49	Band 12	10M	737.5	5095	23.36	23.67
	Band 12	10M	707.5	23095	QPSK	1	49	Band 7	20M	2655	3100	22.69	22.88
	Band 7	20M	2560	21350	QPSK	1	49	Band 66	20M	2155	66886	23.36	23.67
	Band 66	20M	1720	132072	QPSK	1	99	Band 7	20M	2655	3100	22.86	23.10
	Band 12	10M	707.5	23095	QPSK	1	49	Band 30	10M	2355	9820	22.69	22.88
	Band 30	10M	2310	27710	QPSK	1	49	Band 12	10M	737.5	5095	23.01	23.29
	Band 12	10M	707.5	23095	QPSK	1	49	Band 66	20M	2155	66886	22.69	22.88
	Band 66	20M	1720	132072	QPSK	1	99	Band 12	10M	737.5	5095	22.86	23.10
	Band 13	10M	782	23230	QPSK	1	49	Band 66	20M	2155	66886	22.55	22.73
	Band 66	20M	1720	132072	QPSK	1	99	Band 13	10M	751	5230	22.86	23.10
	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	2355	9820	22.66	22.94
	Band 30	10M	2310	27710	QPSK	1	49	Band 14	10M	763	5530	23.01	23.29
	Band 14	10M	793	23330	QPSK	1	0	Band 66	20M	2155	66886	22.66	22.94
	Band 66	20M	1720	132072	QPSK	1	99	Band 14	10M	763	5530	22.86	23.10
	Band 25	20M	1905	26590	QPSK	1	49	Band 26	15M	876.5	8865	22.48	22.71
	Band 26	15M	831.5	26865	QPSK	1	49	Band 25	20M	1962.5	8365	22.86	23.13



FCC SAR Test Report

Report No. : FA892801

Intra-Band		Band 30	10M	2310	27710	QPSK	1	49	Band 29	10M	722.5	9715	23.01	23.29
		Band 66	20M	1720	132072	QPSK	1	99	Band 29	10M	722.5	9715	22.86	23.10
		Band 30	10M	2310	27710	QPSK	1	49	Band 66	20M	2155	66886	23.01	23.29
		Band 66	20M	1720	132072	QPSK	1	99	Band 30	10M	2355	9820	22.86	23.10
		Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	22.92	23.10
		Band 66	20M	1720	132072	QPSK	1	99	Band 71	20M	637	68786	22.86	23.10
	Contiguous	Band 2	20M	1860	18700	QPSK	1	49	Band 2	20M	1959.8	898	22.34	22.52
		Band 5	10M	829	20450	QPSK	1	0	Band 5	10M	883.9	2549	22.65	22.98
		Band 7	20M	2560	21350	QPSK	1	49	Band 7	20M	2649.8	3048	23.36	23.67
		Band 12	5M	701.5	23035	QPSK	1	0	Band 12	10M	741.2	5132	22.51	22.76
		Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	2599.8	38048	23.31	23.53
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	22.84	23.06
	Non-Contiguous	Band 66	15M	1717.5	132047	QPSK	1	74	Band 66	5M	2121.8	66554	22.67	22.98
		Band 66	20M	1720	132072	QPSK	1	99	Band 66	20M	2139.8	66734	22.86	23.10
		Band 2	20M	1860	18700	QPSK	1	49	Band 2	5M	1987.5	1175	22.34	22.52
		Band 4	20M	1745	20300	QPSK	1	49	Band 4	5M	2112.5	1975	22.35	22.53
		Band 7	20M	2560	21350	QPSK	1	49	Band 7	5M	2622.5	2775	23.36	23.67
		Band 25	20M	1905	26590	QPSK	1	49	Band 25	5M	1932.5	8065	22.48	22.71
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.84	23.06
		Band 66	20M	1720	132072	QPSK	1	99	Band 66	5M	2197.5	67311	22.36	23.10

<Reduced Power Mode for P-Sensor On>

Configure	PCC							SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	Band 2	20M	1900	19100	64QAM	1	49	Band 4	20M	2132.5	2175	17.95	18.16
	Band 4	20M	1745	20300	QPSK	1	49	Band 2	20M	1960	900	22.35	22.53
	Band 2	20M	1900	19100	64QAM	1	49	Band 5	10M	881.5	2525	17.95	18.16
	Band 5	10M	829	20450	QPSK	1	0	Band 2	20M	1960	900	22.65	22.98
	Band 2	20M	1900	19100	64QAM	1	49	Band 7	20M	2655	3100	17.95	18.16
	Band 7	20M	2560	21350	16QAM	1	49	Band 2	20M	1960	900	20.28	20.43
	Band 2	20M	1900	19100	64QAM	1	49	Band 12	10M	737.5	5095	17.95	18.16
	Band 12	10M	707.5	23095	QPSK	1	49	Band 2	20M	1960	900	22.69	22.88
	Band 2	20M	1900	19100	64QAM	1	49	Band 13	10M	751	5230	17.95	18.16
	Band 13	10M	782	23230	QPSK	1	49	Band 2	20M	1960	900	22.55	22.73
	Band 2	20M	1900	19100	64QAM	1	49	Band 14	10M	763	5530	17.95	18.16
	Band 14	10M	793	23330	QPSK	1	0	Band 2	20M	1960	900	22.66	22.94
	Band 2	20M	1900	19100	64QAM	1	49	Band 17	10M	740	5790	17.95	18.16
	Band 17	10M	709	23780	QPSK	1	0	Band 2	10M	1960	900	22.53	22.72
	Band 2	20M	1900	19100	64QAM	1	49	Band 29	10M	722.5	9715	17.95	18.16
	Band 2	20M	1900	19100	64QAM	1	49	Band 30	10M	2355	9820	17.95	18.16
	Band 30	10M	2310	27710	16QAM	1	25	Band 2	20M	1960	900	21.76	21.92
	Band 2	20M	1900	19100	64QAM	1	49	Band 66	20M	2155	66886	17.95	18.16
	Band 66	20M	1720	132072	16QAM	1	99	Band 2	20M	1960	900	17.94	18.03
	Band 2	20M	1900	19100	64QAM	1	49	Band 71	20M	637	68786	17.95	18.16
	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	22.92	23.10
	Band 4	20M	1745	20300	QPSK	1	0	Band 5	10M	881.5	2525	17.01	17.18
	Band 5	10M	829	20450	QPSK	1	0	Band 4	20M	2132.5	2175	22.65	22.98
	Band 4	20M	1745	20300	QPSK	1	0	Band 7	20M	2655	3100	17.01	17.18
	Band 7	20M	2560	21350	16QAM	1	49	Band 4	20M	2132.5	2175	20.28	20.43
	Band 4	20M	1745	20300	QPSK	1	0	Band 12	10M	737.5	5095	17.01	17.18
	Band 12	10M	707.5	23095	QPSK	1	49	Band 4	20M	2132.5	2175	22.69	22.88
	Band 4	20M	1745	20300	QPSK	1	0	Band 13	10M	751	5230	17.01	17.18
	Band 13	10M	782	23230	QPSK	1	49	Band 4	20M	2132.5	2175	22.55	22.73
	Band 4	20M	1745	20300	QPSK	1	0	Band 17	10M	740	5790	17.01	17.18
	Band 17	10M	709	23780	QPSK	1	0	Band 4	10M	2132.5	2175	22.53	22.72
	Band 4	20M	1745	20300	QPSK	1	0	Band 29	10M	722.5	9715	17.01	17.18
	Band 4	20M	1745	20300	QPSK	1	0	Band 30	10M	2355	9820	17.01	17.18
	Band 30	10M	2310	27710	16QAM	1	25	Band 4	20M	2132.5	2175	21.76	21.92
	Band 4	20M	1745	20300	QPSK	1	0	Band 71	20M	637	68786	17.01	17.18
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	22.92	23.10
	Band 5	10M	829	20450	QPSK	1	0	Band 7	20M	2655	3100	22.65	22.98
	Band 7	20M	2560	21350	16QAM	1	49	Band 5	10M	881.5	2525	20.28	20.43
	Band 5	10M	829	20450	QPSK	1	0	Band 30	10M	2355	9820	22.65	22.98
	Band 30	10M	2310	27710	16QAM	1	25	Band 5	10M	881.5	2525	21.76	21.92
	Band 5	10M	829	20450	QPSK	1	0	Band 66	20M	2155	66886	22.65	22.98
	Band 66	20M	1720	132072	16QAM	1	99	Band 5	10M	881.5	2525	17.94	18.03
	Band 7	20M	2560	21350	16QAM	1	49	Band 12	10M	737.5	5095	20.28	20.43
	Band 12	10M	707.5	23095	QPSK	1	49	Band 7	20M	2655	3100	22.69	22.88
	Band 7	20M	2560	21350	16QAM	1	49	Band 66	20M	2155	66886	20.28	20.43
	Band 66	20M	1720	132072	16QAM	1	99	Band 7	20M	2655	3100	17.94	18.03
	Band 12	10M	707.5	23095	QPSK	1	49	Band 30	10M	2355	9820	22.69	22.88
	Band 30	10M	2310	27710	16QAM	1	25	Band 12	10M	737.5	5095	21.76	21.92
	Band 12	10M	707.5	23095	QPSK	1	49	Band 66	20M	2155	66886	22.69	22.88
	Band 66	20M	1720	132072	16QAM	1	99	Band 12	10M	737.5	5095	17.94	18.03
	Band 13	10M	782	23230	QPSK	1	49	Band 66	20M	2155	66886	22.55	22.73
	Band 66	20M	1720	132072	16QAM	1	99	Band 13	10M	751	5230	17.94	18.03
	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	2355	9820	22.66	22.94
	Band 30	10M	2310	27710	16QAM	1	25	Band 14	10M	763	5530	21.76	21.92
	Band 14	10M	793	23330	QPSK	1	0	Band 66	20M	2155	66886	22.66	22.94
	Band 66	20M	1720	132072	16QAM	1	99	Band 14	10M	763	5530	17.94	18.03
	Band 25	20M	1880	26340	QPSK	1	0	Band 26	15M	876.5	8865	17.98	18.22



FCC SAR Test Report

Report No. : FA892801

Intra-Band		Band 26	15M	831.5	26865	QPSK	1	49	Band 25	20M	1962.5	8365	22.86	23.13
		Band 30	10M	2310	27710	16QAM	1	25	Band 29	10M	722.5	9715	21.76	21.92
		Band 66	20M	1720	132072	16QAM	1	99	Band 29	10M	722.5	9715	17.94	18.03
		Band 30	10M	2310	27710	16QAM	1	25	Band 66	20M	2155	66886	21.76	21.92
		Band 66	20M	1720	132072	16QAM	1	99	Band 30	10M	2355	9820	17.94	18.03
		Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	22.92	23.10
		Band 66	20M	1720	132072	16QAM	1	99	Band 71	20M	637	68786	17.94	18.03
	Contiguous	Band 2	20M	1900	19100	64QAM	1	49	Band 2	20M	1960.2	902	17.95	18.16
		Band 5	10M	829	20450	QPSK	1	0	Band 5	10M	883.9	2549	22.65	22.98
		Band 7	20M	2560	21350	16QAM	1	49	Band 7	20M	2649.8	3048	20.28	20.43
		Band 12	5M	701.5	23035	QPSK	1	0	Band 12	10M	741.2	5132	22.51	22.76
		Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	2599.8	38048	23.31	23.53
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	22.84	23.06
		Band 66	15M	1772.5	132597	64QAM	1	37	Band 66	5M	2188.2	67218	18.22	18.31
	Non-Contiguous	Band 66	20M	1720	132072	16QAM	1	99	Band 66	20M	2139.8	66734	17.94	18.03
		Band 2	20M	1900	19100	64QAM	1	49	Band 2	5M	1932.5	625	17.95	18.16
		Band 4	20M	1745	20300	QPSK	1	0	Band 4	5M	2112.5	1975	17.01	17.18
		Band 7	20M	2560	21350	16QAM	1	49	Band 7	5M	2622.5	2775	20.28	20.43
		Band 25	20M	1880	26340	QPSK	1	0	Band 25	5M	1992.5	8665	17.98	18.22
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.84	23.06
		Band 66	20M	1720	132072	16QAM	1	99	Band 66	5M	2197.5	67311	17.94	18.03



<Reduced Power Mode for Hotspot On>

Configure	PCC							SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	Band 2	20M	1860	18700	QPSK	1	0	Band 4	20M	2132.5	2175	15.92	16.10
	Band 4	20M	1745	20300	16QAM	1	49	Band 2	20M	1960	900	15.89	16.07
	Band 2	20M	1860	18700	QPSK	1	0	Band 5	10M	881.5	2525	15.92	16.10
	Band 5	10M	829	20450	QPSK	1	0	Band 2	20M	1960	900	22.65	22.98
	Band 2	20M	1860	18700	QPSK	1	0	Band 7	20M	2655	3100	15.92	16.10
	Band 7	20M	2510	20850	16QAM	1	49	Band 2	20M	1960	900	18.43	18.66
	Band 2	20M	1860	18700	QPSK	1	0	Band 12	10M	737.5	5095	15.92	16.10
	Band 12	10M	707.5	23095	QPSK	1	49	Band 2	20M	1960	900	22.69	22.88
	Band 2	20M	1860	18700	QPSK	1	0	Band 13	10M	751	5230	15.92	16.10
	Band 13	10M	782	23230	QPSK	1	49	Band 2	20M	1960	900	22.55	22.73
	Band 2	20M	1860	18700	QPSK	1	0	Band 14	10M	763	5530	15.92	16.10
	Band 14	10M	793	23330	QPSK	1	0	Band 2	20M	1960	900	22.66	22.94
	Band 2	20M	1860	18700	QPSK	1	0	Band 17	10M	740	5790	15.92	16.10
	Band 17	10M	709	23780	QPSK	1	0	Band 2	10M	1960	900	22.53	22.72
	Band 2	20M	1860	18700	QPSK	1	0	Band 29	10M	722.5	9715	15.92	16.10
	Band 2	20M	1860	18700	QPSK	1	0	Band 30	10M	2355	9820	15.92	16.10
	Band 30	10M	2310	27710	16QAM	1	25	Band 2	20M	1960	900	21.76	21.92
	Band 2	20M	1860	18700	QPSK	1	0	Band 66	20M	2155	66886	15.92	16.10
	Band 66	20M	1720	132072	16QAM	1	0	Band 2	20M	1960	900	16.23	16.47
	Band 2	20M	1860	18700	QPSK	1	0	Band 71	20M	637	68786	15.92	16.10
	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	22.92	23.10
	Band 4	20M	1745	20300	16QAM	1	49	Band 5	10M	881.5	2525	15.89	16.07
	Band 5	10M	829	20450	QPSK	1	0	Band 4	20M	2132.5	2175	22.65	22.98
	Band 4	20M	1745	20300	16QAM	1	49	Band 7	20M	2655	3100	15.89	16.07
	Band 7	20M	2510	20850	16QAM	1	49	Band 4	20M	2132.5	2175	18.43	18.66
	Band 4	20M	1745	20300	16QAM	1	49	Band 12	10M	737.5	5095	15.89	16.07
	Band 12	10M	707.5	23095	QPSK	1	49	Band 4	20M	2132.5	2175	22.69	22.88
	Band 4	20M	1745	20300	16QAM	1	49	Band 13	10M	751	5230	15.89	16.07
	Band 13	10M	782	23230	QPSK	1	49	Band 4	20M	2132.5	2175	22.55	22.73
	Band 4	20M	1745	20300	16QAM	1	49	Band 17	10M	740	5790	15.89	16.07
	Band 17	10M	709	23780	QPSK	1	0	Band 4	10M	2132.5	2175	22.53	22.72
	Band 4	20M	1745	20300	16QAM	1	49	Band 29	10M	722.5	9715	15.89	16.07
	Band 4	20M	1745	20300	16QAM	1	49	Band 30	10M	2355	9820	15.89	16.07
	Band 30	10M	2310	27710	16QAM	1	25	Band 4	20M	2132.5	2175	21.76	21.92
	Band 4	20M	1745	20300	16QAM	1	49	Band 71	20M	637	68786	15.89	16.07
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	22.92	23.10
	Band 5	10M	829	20450	QPSK	1	0	Band 7	20M	2655	3100	22.65	22.98
	Band 7	20M	2510	20850	16QAM	1	49	Band 5	10M	881.5	2525	18.43	18.66
	Band 5	10M	829	20450	QPSK	1	0	Band 30	10M	2355	9820	22.65	22.98
	Band 30	10M	2310	27710	16QAM	1	25	Band 5	10M	881.5	2525	21.76	21.92
	Band 5	10M	829	20450	QPSK	1	0	Band 66	20M	2155	66886	22.65	22.98
	Band 66	20M	1720	132072	16QAM	1	0	Band 5	10M	881.5	2525	16.23	16.47
	Band 7	20M	2510	20850	16QAM	1	49	Band 12	10M	737.5	5095	18.43	18.66
	Band 12	10M	707.5	23095	QPSK	1	49	Band 7	20M	2655	3100	22.69	22.88
	Band 7	20M	2510	20850	16QAM	1	49	Band 66	20M	2155	66886	18.43	18.66
	Band 66	20M	1720	132072	16QAM	1	0	Band 7	20M	2655	3100	16.23	16.47
	Band 12	10M	707.5	23095	QPSK	1	49	Band 30	10M	2355	9820	22.69	22.88
	Band 30	10M	2310	27710	16QAM	1	25	Band 12	10M	737.5	5095	21.76	21.92
	Band 12	10M	707.5	23095	QPSK	1	49	Band 66	20M	2155	66886	22.69	22.88
	Band 66	20M	1720	132072	16QAM	1	0	Band 12	10M	737.5	5095	16.23	16.47
	Band 13	10M	782	23230	QPSK	1	49	Band 66	20M	2155	66886	22.55	22.73
	Band 66	20M	1720	132072	16QAM	1	0	Band 13	10M	751	5230	16.23	16.47
	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	2355	9820	22.66	22.94
	Band 30	10M	2310	27710	16QAM	1	25	Band 14	10M	763	5530	21.76	21.92
	Band 14	10M	793	23330	QPSK	1	0	Band 66	20M	2155	66886	22.66	22.94
	Band 66	20M	1720	132072	16QAM	1	0	Band 14	10M	763	5530	16.23	16.47
	Band 25	20M	1905	26590	64QAM	1	49	Band 26	15M	876.5	8865	16.12	16.30



FCC SAR Test Report

Report No. : FA892801

Intra-Band		Band 26	15M	831.5	26865	QPSK	1	49	Band 25	20M	1962.5	8365	22.86	23.13
		Band 30	10M	2310	27710	16QAM	1	25	Band 29	10M	722.5	9715	21.76	21.92
		Band 66	20M	1720	132072	16QAM	1	0	Band 29	10M	722.5	9715	16.23	16.47
		Band 30	10M	2310	27710	16QAM	1	25	Band 66	20M	2155	66886	21.76	21.92
		Band 66	20M	1720	132072	16QAM	1	0	Band 30	10M	2355	9820	16.23	16.47
		Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	22.92	23.10
		Band 66	20M	1720	132072	16QAM	1	0	Band 71	20M	637	68786	16.23	16.47
	Contiguous	Band 2	20M	1860	18700	QPSK	1	0	Band 2	20M	1959.8	898	15.92	16.10
		Band 5	10M	829	20450	QPSK	1	0	Band 5	10M	883.9	2549	22.65	22.98
		Band 7	20M	2510	20850	16QAM	1	49	Band 7	20M	2649.8	3048	18.43	18.66
		Band 12	5M	701.5	23035	QPSK	1	0	Band 12	10M	741.2	5132	22.51	22.76
		Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	2599.8	38048	21.86	22.08
		Band 41	20M	2593	40620	QPSK	100	0	Band 41	20M	2612.8	40818	22.48	22.70
		Band 66	15M	1745	132322	16QAM	1	0	Band 66	5M	2164.3	66979	16.21	16.46
	Non-Contiguous	Band 66	20M	1720	132072	16QAM	1	0	Band 66	20M	2139.8	66734	16.23	16.47
		Band 2	20M	1860	18700	QPSK	1	0	Band 2	5M	1987.5	1175	15.92	16.10
		Band 4	20M	1745	20300	16QAM	1	49	Band 4	5M	2112.5	1975	15.89	16.07
		Band 7	20M	2510	20850	16QAM	1	49	Band 7	5M	2687.5	3425	18.43	18.66
		Band 25	20M	1905	26590	64QAM	1	49	Band 25	5M	1932.5	8065	16.12	16.30
		Band 41	20M	2593	40620	QPSK	100	0	Band 41	5M	2687.5	41565	22.48	22.70
		Band 66	20M	1720	132072	16QAM	1	0	Band 66	5M	2197.5	67311	16.23	16.47



<Reduced Power Mode for Handheld On>

Configure	PCC							SCC				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	Band 2	20M	1880	18900	16QAM	1	49	Band 4	20M	2132.5	2175	20.23	20.36
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	19.86	20.00
	Band 2	20M	1880	18900	16QAM	1	49	Band 5	10M	881.5	2525	20.23	20.36
	Band 5	10M	829	20450	QPSK	1	0	Band 2	20M	1960	900	22.65	22.98
	Band 2	20M	1880	18900	16QAM	1	49	Band 7	20M	2655	3100	20.23	20.36
	Band 7	20M	2510	20850	64QAM	1	0	Band 2	20M	1960	900	21.75	21.97
	Band 2	20M	1880	18900	16QAM	1	49	Band 12	10M	737.5	5095	20.23	20.36
	Band 12	10M	707.5	23095	QPSK	1	49	Band 2	20M	1960	900	22.69	22.88
	Band 2	20M	1880	18900	16QAM	1	49	Band 13	10M	751	5230	20.23	20.36
	Band 13	10M	782	23230	QPSK	1	49	Band 2	20M	1960	900	22.55	22.73
	Band 2	20M	1880	18900	16QAM	1	49	Band 14	10M	763	5530	20.23	20.36
	Band 14	10M	793	23330	QPSK	1	0	Band 2	20M	1960	900	22.66	22.94
	Band 2	20M	1880	18900	16QAM	1	49	Band 17	10M	740	5790	20.23	20.36
	Band 17	10M	709	23780	QPSK	1	0	Band 2	10M	1960	900	22.53	22.72
	Band 2	20M	1880	18900	16QAM	1	49	Band 29	10M	722.5	9715	20.23	20.36
	Band 2	20M	1880	18900	16QAM	1	49	Band 30	10M	2355	9820	20.23	20.36
	Band 30	10M	2310	27710	16QAM	1	49	Band 2	20M	1960	900	21.82	22.03
	Band 2	20M	1880	18900	16QAM	1	49	Band 66	20M	2155	66886	20.23	20.36
	Band 66	20M	1770	132572	16QAM	1	99	Band 2	20M	1960	900	20.22	20.45
	Band 2	20M	1880	18900	16QAM	1	49	Band 71	20M	637	68786	20.23	20.36
	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	22.92	23.10
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	19.86	20.00
	Band 5	10M	829	20450	QPSK	1	0	Band 4	20M	2132.5	2175	22.65	22.98
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	19.86	20.00
	Band 7	20M	2510	20850	64QAM	1	0	Band 4	20M	2132.5	2175	21.75	21.97
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 12	10M	737.5	5095	19.86	20.00
	Band 12	10M	707.5	23095	QPSK	1	49	Band 4	20M	2132.5	2175	22.69	22.88
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 13	10M	751	5230	19.86	20.00
	Band 13	10M	782	23230	QPSK	1	49	Band 4	20M	2132.5	2175	22.55	22.73
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 17	10M	740	5790	19.86	20.00
	Band 17	10M	709	23780	QPSK	1	0	Band 4	10M	2132.5	2175	22.53	22.72
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 29	10M	722.5	9715	19.86	20.00
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 30	10M	2355	9820	19.86	20.00
	Band 30	10M	2310	27710	16QAM	1	49	Band 4	20M	2132.5	2175	21.82	22.03
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 71	20M	637	68786	19.86	20.00
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	22.92	23.10
	Band 5	10M	829	20450	QPSK	1	0	Band 7	20M	2655	3100	22.65	22.98
	Band 7	20M	2510	20850	64QAM	1	0	Band 5	10M	881.5	2525	21.75	21.97
	Band 5	10M	829	20450	QPSK	1	0	Band 30	10M	2355	9820	22.65	22.98
	Band 30	10M	2310	27710	16QAM	1	49	Band 5	10M	881.5	2525	21.82	22.03
	Band 5	10M	829	20450	QPSK	1	0	Band 66	20M	2155	66886	22.65	22.98
	Band 66	20M	1770	132572	16QAM	1	99	Band 5	10M	881.5	2525	20.22	20.45
	Band 7	20M	2510	20850	64QAM	1	0	Band 12	10M	737.5	5095	21.75	21.97
	Band 12	10M	707.5	23095	QPSK	1	49	Band 7	20M	2655	3100	22.69	22.88
	Band 7	20M	2510	20850	64QAM	1	0	Band 66	20M	2155	66886	21.75	21.97
	Band 66	20M	1770	132572	16QAM	1	99	Band 7	20M	2655	3100	20.22	20.45
	Band 12	10M	707.5	23095	QPSK	1	49	Band 30	10M	2355	9820	22.69	22.88
	Band 30	10M	2310	27710	16QAM	1	49	Band 12	10M	737.5	5095	21.82	22.03
	Band 12	10M	707.5	23095	QPSK	1	49	Band 66	20M	2155	66886	22.69	22.88
	Band 66	20M	1770	132572	16QAM	1	99	Band 12	10M	737.5	5095	20.22	20.45
	Band 13	10M	782	23230	QPSK	1	49	Band 66	20M	2155	66886	22.55	22.73
	Band 66	20M	1770	132572	16QAM	1	99	Band 13	10M	751	5230	20.22	20.45
	Band 14	10M	793	23330	QPSK	1	0	Band 30	10M	2355	9820	22.66	22.94
	Band 30	10M	2310	27710	16QAM	1	49	Band 14	10M	763	5530	21.82	22.03
	Band 14	10M	793	23330	QPSK	1	0	Band 66	20M	2155	66886	22.66	22.94
	Band 66	20M	1770	132572	16QAM	1	99	Band 14	10M	763	5530	20.22	20.45
	Band 25	20M	1880	26340	64QAM	1	49	Band 26	15M	876.5	8865	20.11	20.25



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Intra-Band		Band 26	15M	831.5	26865	QPSK	1	49	Band 25	20M	1962.5	8365	22.86	23.13
		Band 30	10M	2310	27710	16QAM	1	49	Band 29	10M	722.5	9715	21.82	22.03
		Band 66	20M	1770	132572	16QAM	1	99	Band 29	10M	722.5	9715	20.22	20.45
		Band 30	10M	2310	27710	16QAM	1	49	Band 66	20M	2155	66886	21.82	22.03
		Band 66	20M	1770	132572	16QAM	1	99	Band 30	10M	2355	9820	20.22	20.45
		Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	22.92	23.10
		Band 66	20M	1770	132572	16QAM	1	99	Band 71	20M	637	68786	20.22	20.45
	Contiguous	Band 2	20M	1880	18900	16QAM	1	49	Band 2	20M	1979.8	1098	20.23	20.36
		Band 5	10M	829	20450	QPSK	1	0	Band 5	10M	883.9	2549	22.65	22.98
		Band 7	20M	2510	20850	64QAM	1	0	Band 7	20M	2649.8	3048	21.75	21.97
		Band 12	5M	701.5	23035	QPSK	1	0	Band 12	10M	741.2	5132	22.51	22.76
		Band 38	20M	2580	37850	QPSK	1	0	Band 38	20M	2599.8	38048	23.31	23.53
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	22.84	23.06
		Band 66	15M	1772.5	132597	64QAM	1	37	Band 66	5M	2188.2	67218	20.26	20.48
	Non-Contiguous	Band 66	20M	1770	132572	16QAM	1	99	Band 66	20M	2170.2	67038	20.22	20.45
		Band 2	20M	1880	18900	16QAM	1	49	Band 2	5M	1987.5	1175	20.23	20.36
		Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	19.86	20.00
		Band 7	20M	2510	20850	64QAM	1	0	Band 7	5M	2687.5	3425	21.75	21.97
		Band 25	20M	1880	26340	64QAM	1	49	Band 25	5M	1992.5	8665	20.11	20.25
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	22.84	23.06
		Band 66	20M	1770	132572	16QAM	1	99	Band 66	5M	2112.5	66461	20.22	20.45