FCC SAR TEST REPORT

Report No:	E5/2020/30015
Applicant:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Manufacturer:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Product Name:	Mobile Phone
Model No.(EUT):	CPH2009
Trade Mark:	OPPO
FCC ID:	R9C-CPH2009
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2019-12-10
Date of Test:	2020-01-13 to 2020-02-25
Date of Issue:	2020-03-27
Test conclusion:	**PASS ***

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Engineer

Jay Tseng

Jay Tseng

Date: Mar. 27, 2020

Asst. Manager

John Yeh

John Yeh

Date: Mar. 27, 2020

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REVISION HISTORY

Report Number	Revision	Description	Issue Date
E5/2020/30015	01	Original	2020-03-27

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.79	0.22	0.79	/
GSM1900	0.90	0.09	0.33	/
WCDMA Band II	0.69	0.21	0.61	/
WCDMA Band IV	0.76	0.15	0.42	/
WCDMA Band V	0.98	0.31	0.68	/
LTE Band 2	0.92	0.23	0.63	/
LTE Band 4	0.84	0.21	0.51	/
LTE Band 5	1.01	0.27	0.56	/
LTE Band 7	**1.11**	0.42	**1.12**	/
LTE Band 12	0.91	0.33	0.69	/
LTE Band 17	1.01	0.32	0.74	/
LTE Band 26	0.70	0.17	0.35	/
LTE Band 38	0.97	0.27	1.05	/
LTE Band 41	1.01	0.21	0.84	/
LTE Band 66	0.98	0.19	0.48	/
WI-FI (2.4GHz)	0.79	0.21	0.55	/
WI-FI (5GHz)	0.76	**0.56**	0.71	**2.29**
BT	0.58	/	0.10	/
SAR Limited(w/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	**Head**	**Body**	**Hotspot**	**Product specific 10g SAR**
Sum SAR	1.59	1.37	1.49	2.29
SPLSR	0.03	N/A	N/A	N/A
SPLSR Limited	0.04			0.1

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1 General Information

1.1 Details of Client

Applicant:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address:	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China
Manufacturer:	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
Address:	NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City, Guangdong,China

1.2 Test Location

Company	SGS Taiwan Ltd. Electronics & Communication Laboratory
Address:	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

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1.3 General Description of EUT

Product Name:	Mobile Phone		
Model No.(EUT):	CPH2009		
Trade Mark:	OPPO		
FCC ID:	R9C-CPH2009		
Product Phase:	production unit		
Device Type:	Portable device		
Exposure Category:	uncontrolled environment / general population		
SN:	4e4accd8/6ed5e864/2813458f/bb849491/54b71ce7/6f93a2d3/961f3e6/2813458f/bbb4fc2a		
Hardware Version:	11		
Software Version:	ColorOS V7		
Antenna Type:	Inner Antenna		
Device Operating Configurations:			
Modulation Mode:	**GSM:** GMSK,8PSK; **WCDMA**: QPSK,16QAM(HSPA+); **LTE:** QPSK,16QAM,64QAM**;** **WIFI:** DSSS; OFDM; **BT:** GFSK, π/4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(UMTS Band II/IV/V)		
	tested with power control “max power”(LTE Band 2/4/5/7/12/17/26/38/41/66)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2180

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Frequency Bands:	WiFi 2.4G	2412-2472	2412-2472
	WIFI(5GHz)	5150~5350	5150~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2400~2483.5	2400~2483.5
Battery 1# Information:	Model:	BLP755	
	Normal Voltage:	3.87V	
	Rated capacity:	3935mAh	
	Manufacturer:	Dongguan NVT Technology Co., Ltd.	
Battery 2# Information:	Model:	BLP755	
	Normal Voltage:	3.87V	
	Rated capacity:	3935mAh	
	Manufacturer:	TWS Technology(Guangzhou) Limited	
Headset Information:	Model:	MH147	
	Manufacturer:	Jiangxi Risound Electronics Co.,Ltd.	

Not:

1) For WiFi 2.4G Ant8(Chain1) and WiFi 2.4G MIMO/CDD, the device does not support 802.11b.
2) For WiFi 5G, the device does not support channel 138(80M), channel 142(40M) and channel 144(20M)
3) For WiFi 5G, U-NII-2A and U-NII-2C does not support hotspot function.

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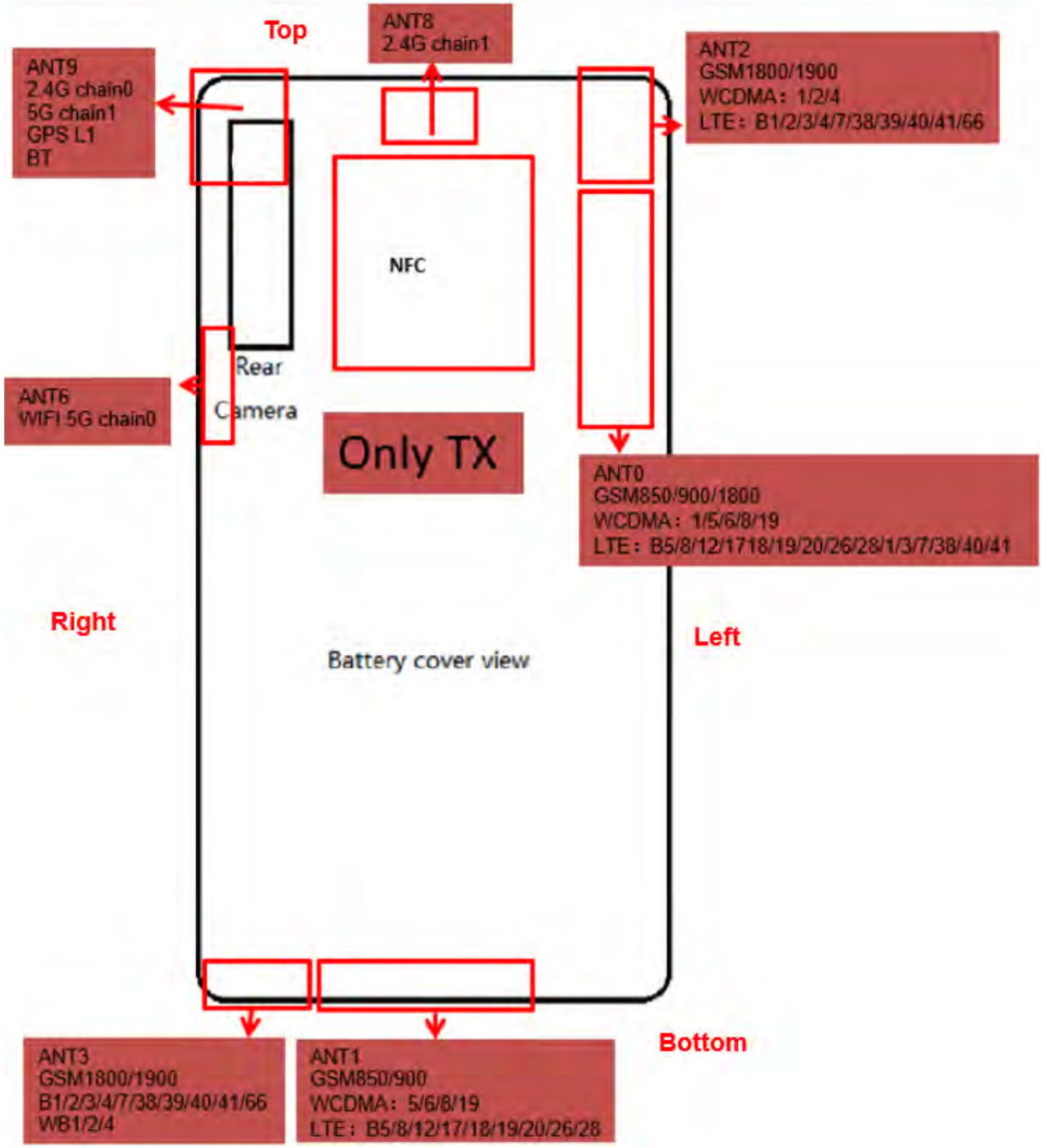
1.3.1 DUT Antenna Locations



The test device is a mobile phone. The overall diagonal dimension of this device is 170 mm.

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According to the distance between LTE/WCDMA/GSM&WIFI&BT antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Top	Bottom
Ant0.	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant1.	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant2.	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	No	Yes	No
Ant3.	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant6.	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	No	No
Ant8.	Hotspot/Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
Ant9.	Hotspot/Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Table 1： EUT Sides for SAR Testing

Note:

1) When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

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1.3.2 Power reduction specification

1.3.2.1 This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

1) This device support the receiver detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G and Wi-Fi antennas accordingly.

2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions. The standalone SAR compliance still uses the standalone SAR results tested at the maximum output power level without any power reduction

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in this report.

Ant0 Power Level(dBm)									
Power Reduction Scenario	GSM850	WCDMA Band V	LTE B5	LTE B7	LTE B12	LTE B17	LTE B38	LTE B41 Class3	LTE B41 Class2
Receiver on	32.2	25.0	24.3	17.2	24.4	24.4	20.1	19.5	19.5
Receiver off	32.2	25.0	23.5	22.1	23.3	23.3	23.0	20.5	20.5
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	32.2	22.7	22.2	15.7	22.1	22.1	18.6	18.8	18.8
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	31.0	22.6	21.7	20.1	21.5	21.5	23.0	18.8	18.8
WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on	32.2	22.7	22.2	15.7	22.1	22.1	18.6	18.8	18.8
WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off	31.0	22.6	21.7	20.1	21.5	21.5	23.0	18.8	18.8
WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on	32.2	22.7	22.2	15.7	22.1	22.1	18.6	18.8	18.8
WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off	31.0	22.6	21.7	20.1	21.5	21.5	23.0	18.8	18.8

Ant1 Power Level(dBm)					
Power Reduction Scenario	GSM850	WCDMA Band V	LTE B5	LTE B12	LTE B17
Receiver on	34.0	25.0	25.0	24.8	24.8
Receiver off	32.2	23.4	23.8	24.8	24.8
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	34.0	25.0	25.0	24.8	24.8
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	30.5	21.7	22.0	22.5	22.5
WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on	34.0	25.0	25.0	24.8	24.8
WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off	30.5	21.7	22.0	22.5	22.5
WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on	34.0	25.0	25.0	24.8	24.8
WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off	30.5	21.7	22.0	22.5	22.5

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Ant2 Power Level(dBm)										
Power Reduction Scenario	GSM1900	WCDMA Band II	WCDMA Band IV	LTE B2	LTE B4	LTE B7	LTE B38	LTE B41 Class3	LTE B41 Class2	LTE B66
Receiver on	25.3	15.3	15.8	16.0	16.0	15.0	16.5	16.4	16.4	15.7
Receiver off	26.4	18.2	18.3	19.1	19.2	19.8	21.3	19.5	19.5	18.5
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	23.6	13.5	14.1	14.3	14.2	14.0	14.9	15.0	15.0	14.0
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	24.7	16.4	16.5	17.4	17.4	17.7	19.5	18.2	18.2	16.8
WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on	24.6	14.5	15.1	15.3	15.2	14.0	15.4	15.5	15.5	15.0
WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off	25.7	17.4	17.5	18.4	18.4	17.7	19.5	19.2	19.2	17.8
WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on	24.6	14.5	15.1	15.3	15.2	14.0	15.4	15.5	15.5	15.0
WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off	25.7	17.4	17.5	18.4	18.4	17.7	19.5	19.2	19.2	17.8

Ant3 Power Level(dBm)					
Power Reduction Scenario	WCDMA Band II	LTE B2	LTE B7	LTE B41 Class3	LTE B41 Class2
Receiver on	23.5	23.0	23.7	23.5	25.5
Receiver off	23.5	23.0	23.0	23.5	25.5
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	23.5	22.1	23.7	23.5	25.5
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	21.0	22.1	20.9	23.0	23.5
WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on	23.5	23.0	23.7	23.5	25.5
WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off	21.0	22.1	20.9	23.0	23.5
WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on	23.5	23.0	23.7	23.5	25.5
WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off	23.5	22.1	23.7	23.0	23.5

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WiFi antenna Power Level(dBm)												
Power Reduction Scenario	WiFi 2.4G			WiFi 5G								
				Band 1/2			Band 3			Band 4		
	Chain0	Chain1	MIMO (Chain 0+1)	Chain 0	Chain 1	MIMO (Chain 0+1)	Chain 0	Chain 1	MIMO (Chain 0+1)	Chain0	Chain 1	MIMO (Chain 0+1)
Receiver on	15.5	19.5	18.0	19.5	13.1	16.1	19.5	13.1	16.1	12.5	12.5	15.5
Receiver off	20.0	19.5	22.5	19.5	18.5	21.5	19.5	18.5	21.5	13.5	13.5	16.5
WLAN 2.4G(Chain1)+BT Receiver on	/	19.5	/	/	/	/	/	/	/	/	/	/
WLAN 2.4G(Chain1)+BT Receiver off	/	19.5	/	/	/	/	/	/	/	/	/	/
WLAN 5G+BT Receiver on	/	/	/	19.5	13.1	16.1	19.5	13.1	16.1	12.5	12.5	15.5
WLAN 5G+BT Receiver off	/	/	/	19.5	18.5	21.5	19.5	18.5	21.5	13.5	13.5	16.5
WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	16.5	/	/	/	14	/	/	14	/	/	12.5	/
WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	20.0	/	/	/	18.5	/	/	18.5	/	/	13.5	/
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on	13.8	/	/	/	11.3	/	/	11.3	/	/	11	/
WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off	18.0	/	/	/	17.6	/	/	17.6	/	/	13.5	/
WWAN+WLAN 2.4G Receiver on	13.8	19.5	16.3	/	/	/	/	/	/	/	/	/
WWAN+WLAN 2.4G(Chain1)+BT Receiver on	/	19.5	/	/	/	/	/	/	/	/	/	/
WWAN+WLAN 2.4G Receiver off	18.0	19.5	20.5	/	/	/	/	/	/	/	/	/
WWAN+WLAN 2.4G(Chain1)+BT Receiver off	/	19.5	/	/	/	/	/	/	/	/	/	/
WWAN+WLAN 5G Receiver on	/	/	/	19.5	11.3	14.3	19.5	11.3	14.3	11.0	11	14
WWAN+WLAN 5G+BT Receiver on	/	/	/	19.5	11.3	14.3	19.5	11.3	14.3	11.0	11	14
WWAN+WLAN 5G Receiver off	/	/	/	19.5	17.6	20.6	19.5	17.6	20.6	13.5	13.5	16.5
WWAN+WLAN 5G+BT Receiver off	/	/	/	19.5	17.6	20.6	19.5	17.6	20.6	13.5	13.5	16.5

Note:
For Head SAR test, standalone SAR is evaluated with receiver on mode.
For Body SAR test, standalone SAR is evaluated with receiver off mode.

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1.3.3 LTE CA additional specification

The device supports uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

a) Intra-band carrier aggregation requirements for uplink.
b) Support of contiguous component carriers for intra-band aggregation requirements for uplink.

1. This device supports uplink carrier aggregation for LTE CA_7C/CA_38C/CA_41C 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. For the non-contiguously allocated resource blocks which the MPR level is determined by various RB separation and RB sizes requirement, and the allowed MPR levels, settings and the conducted powers are permanently implemented in this device per the 3GPP 36.101 section 6.2.3A.1.3 requirements.

2. The output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.

3. In applying the power measurement procedures to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs

4. Maximum output power measurement is required for each UL CA configuration for the required test channels. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC.

The following applied to intra-band contiguous UL CA only;

a. Maximum output power measurement is required for each UL CA configuration for the required test channels. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC

b. UL CA SAR is measured for each exposure condition in each frequency band using the highest SAR configuration tested in standalone LTE mode to establish the UL CA PCC. The SCC and subsequent CC must use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions.

c. When the SAR configuration tested in step b) has a maximum output power specification more than ¼ dB lower than the highest maximum output power conditions measured in the power measurements in step a) above and the reported SAR in step b) is larger than 1.5 W/kg, SAR measurement is also required for the configuration in step a)

d. All standalone SAR configurations with SAR > 1.5 W/kg must also be tested by applying the procedures in step b

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Intra-band contiguous CA operating bands：

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band BS receive / UE transmit F_{UL_low} – F_{UL_high}			Downlink (DL) operating band BS transmit / UE receive F_{DL_low} – F_{DL_high}			Duplex Mode
CA_7	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD
CA_38	38	2570 MHz	–	2620 MHz	2570 MHz	–	2620 MHz	TDD
CA_41	41	2496 MHz	–	2690 MHz	2496 MHz	–	2690 MHz	TDD

contiguous intra-band CA：

E-UTRA CA configuration / Bandwidth combination set					
Uplink CA configurations (NOTE 3)	Component carriers in order of increasing carrier frequency			Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]	Channel bandwidths for carrier [MHz]		
CA_7C	15	15		40	0
	20	20			
	10	20		40	1
	15	15, 20			
	20	10, 15, 20			
CA_38C	15	15		40	0
	20	20			
CA_41C	10	20		40	0
	15	15, 20			
	20	10, 15, 20			
	5, 10	20		40	1
	15	15, 20			
	20	5, 10, 15, 20			
	10	15, 20		40	2
	15	10, 15, 20			
	20	10, 15, 20			
	10	20		40	3
	20	20			

NOTE 1: The CA configuration refers to an operating band and a CA bandwidth class specified in Table 5.6A-1 (the indexing letter). Absence of a CA bandwidth class for an operating band implies support of all classes.
NOTE 2: For the supported CC bandwidth combinations, the CC downlink and uplink bandwidths are equal.
NOTE 3: Uplink CA configurations are the configurations supported by the present release of specifications.

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1.4 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1991	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 648474 D04	Handset SAR v01r03
KDB447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 616217 D04	SAR for laptop and tablets v01r02
KDB 690783 D01	SAR Listings on Grants v01r03

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1.5 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	**1.60 mW/g**	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	**4.00 mW/g**	20.00 mW/g

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

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.)

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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

Table 2： The Ambient Conditions

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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

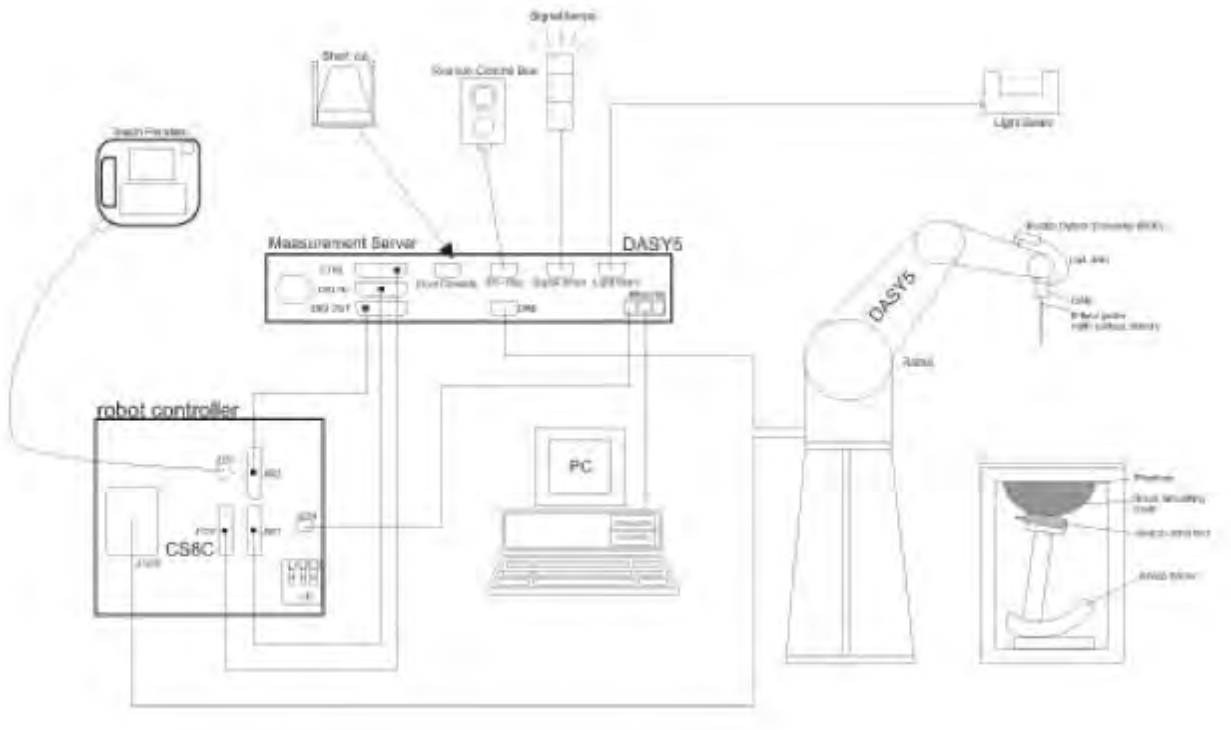
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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 between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 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 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

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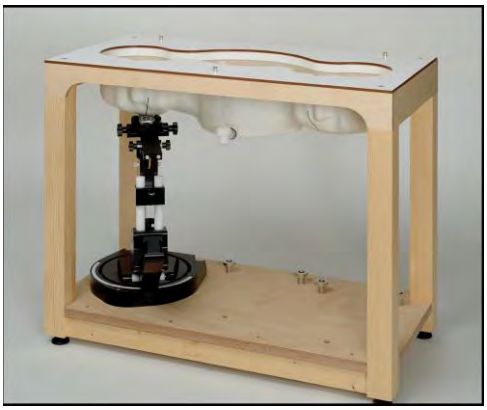
3.3 Data Acquisition Electronics (DAE)

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

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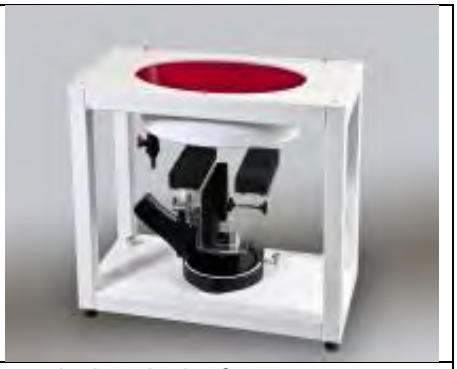
3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.

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3.6 Device Holder for Transmitters

F-2. **Device Holder for Transmitters**

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ=0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: *Area scan*

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: *Zoom scan*

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification).The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.

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			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %

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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	ε
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With Vi = compensated signal of channel i (i = x, y, z)
Ui = input signal of channel i (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1} f + a_{i2} f^2) / f$$

With Vi = compensated signal of channel i (i = x, y, z)
Normi = sensor sensitivity of channel I (i = x, y, z)
[mV/(V/m)2] for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel i in V/m
Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_Y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ= conductivity in [mho/m] or [Siemens/m]
ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}{}^2{}_2 / 3770 \text{ or } \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m
Htot = total magnetic field strength in A/m

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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ⩾ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ⩾ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ⩾1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

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5 Description of Test Position

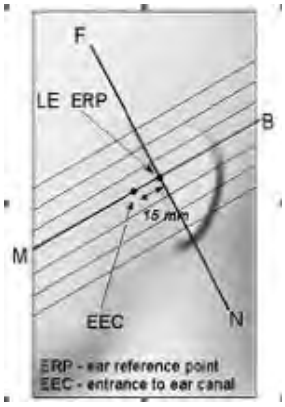
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

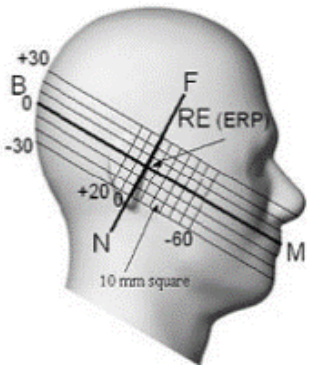
F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

Note: The centre strip including the nose region has a different thickness tolerance.

F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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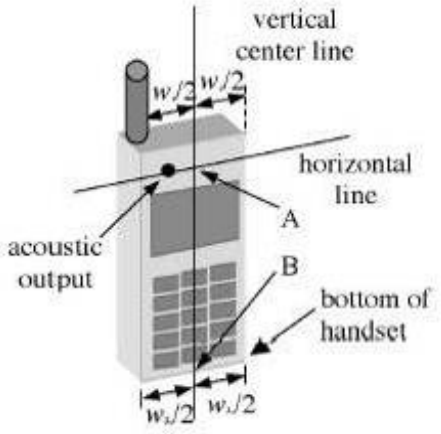
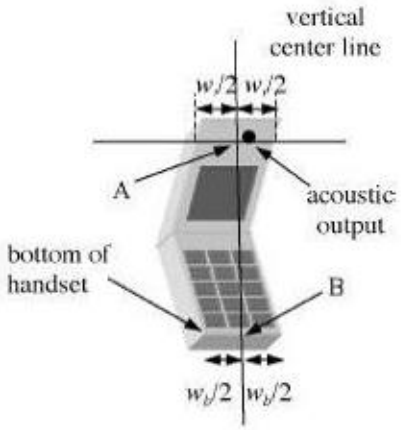
5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-“fixed case”



F-8. Handset vertical and horizontal reference lines-“clam-shell case”

5.1.3 Definition of the “cheek” position

a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

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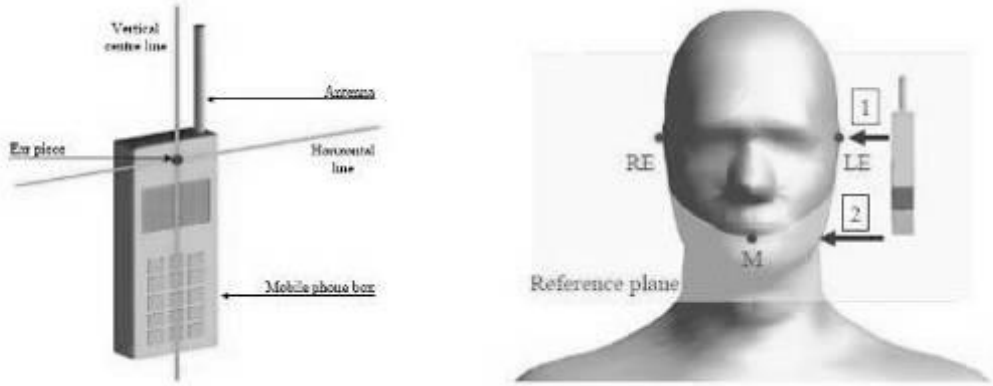
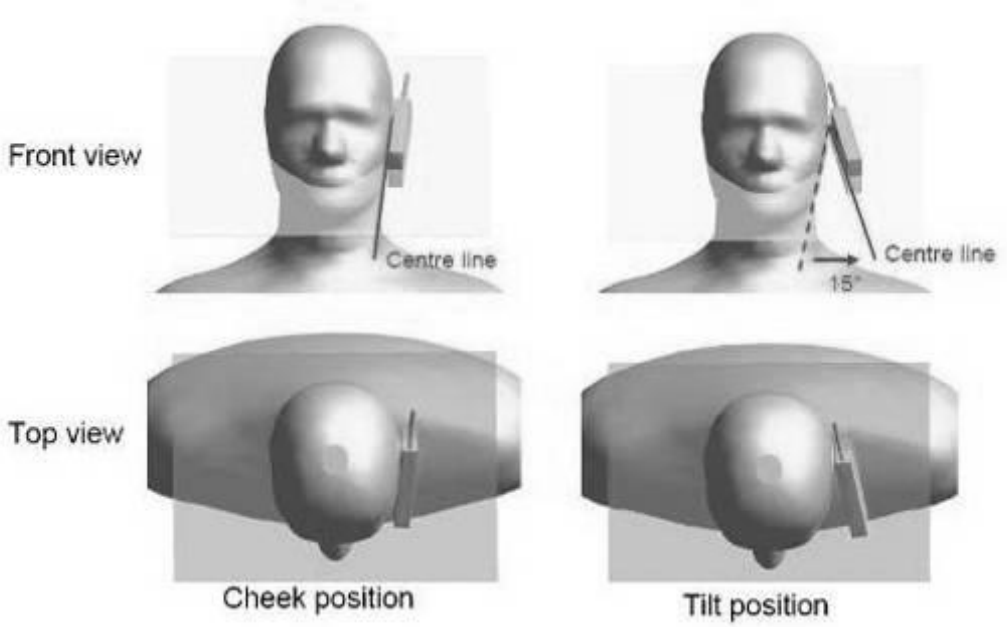
5.1.4 Definition of the “tilted” position

a) Position the device in the “cheek” position described above;
b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. **Definition of the reference lines and points, on the phone and on the phantom and initial position**



F-10. **“Cheek” and “tilt” positions of the mobile phone on the left side**

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5.2 Body Exposure Condition

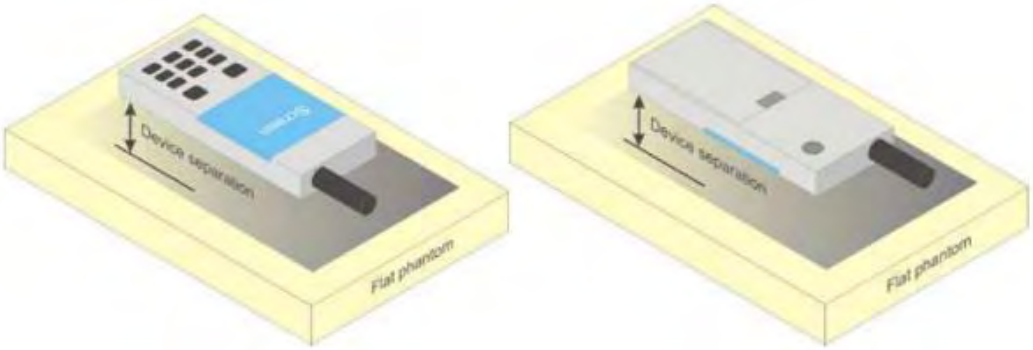
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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. Per FCC KDB Publication 648474 D04, 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 Publication 447498 D01 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 a body-worn accessory, measured without a headset connected to the handset, is > 1.2 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 tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. **Test positions for body-worn devices**

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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, 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, the device is marketed as “Phablet”.
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 Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, for the Product Specific 10g SAR with 0mm are not required.

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands：

Ingredients (% by weight)	Frequency (MHz)				
	450	900	1800-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85

Salt: 99+% Pure Sodium Chloride
Water: De-ionized, 16 MΩ+ resistivity
Tween: Polyoxyethylene (20) sorbitan monolaurate
Sucrose: 98+% Pure Sucrose
HEC: Hydroxyethyl Cellulose

HSL5GHz is composed of the following ingredients：
Water：50-65%
Mineral oil：10-30%
Emulsifiers：8-25%
Sodium salt：0-1.5%

Table 3： Recipe of Tissue Simulate Liquid

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6.1.2 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Target Tissue (±5%)		Measured Tissue		Liquid Temp.	Measured Date
		εr	σ(S/m)	εr	σ(S/m)	(℃)	
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.597	0.883	22.0	2020/1/25
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.729	0.886	22.0	2020/1/26
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	43.217	0.891	22.0	2020/1/13
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.776	0.938	22.0	2020/1/21
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	43.024	0.930	22.0	2020/1/28
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.441	1.317	21.9	2020/1/18
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.548	1.333	21.9	2020/1/19
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	40.173	1.376	22.1	2020/1/16
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	40.321	1.416	22.1	2020/2/21
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	39.901	1.826	21.8	2020/2/1
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	40.888	1.828	21.8	2020/2/25
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.429	1.994	21.9	2020/1/27
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	40.179	1.957	21.9	2020/2/14
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	39.388	2.000	21.9	2020/2/17
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.449	2.026	21.9	2020/2/18

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5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.578	4.721	22.3	2020/1/25
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.638	4.842	22.3	2020/1/26
5250 Head	5250	35.9 (34.11~37.70)	4.71 (4.47~4.95)	36.191	4.781	22.3	2020/2/1
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.626	5.107	22.3	2020/1/25
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.770	5.233	22.3	2020/1/26
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.324	5.168	22.3	2020/2/1
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.262	5.279	22.3	2020/1/25
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.589	5.430	22.3	2020/1/26
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.143	5.363	22.3	2020/2/1

Table 4： Measurement result of Tissue electric parameters

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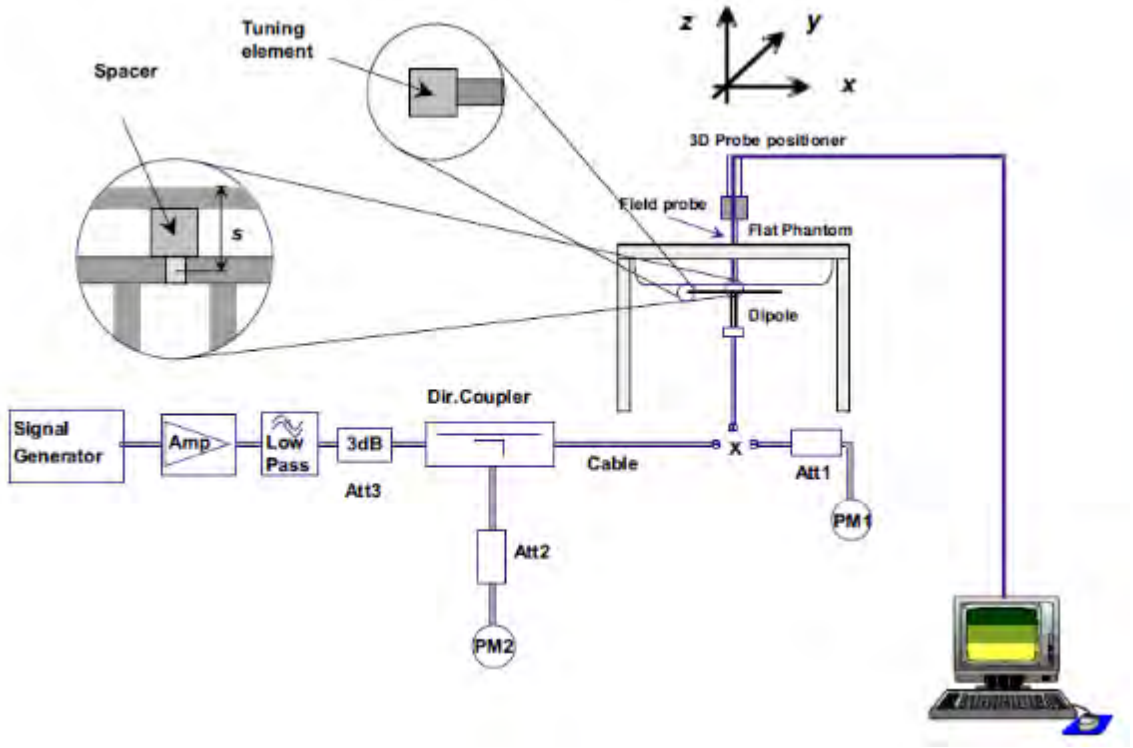
6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mw (below 3GHz) or 100mw (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check

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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
a) There is no physical damage on the dipole;
b) System check with specific dipole is within 10% of calibrated value;
c) Return-loss is within 10% of calibrated measurement;
d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	2.26	1.48	9.04	5.92	8.39 (7.55~9.23)	5.63 (5.07~6.19)	22.0	2020/1/25
D750V3	Head	2.16	1.42	8.64	5.68	8.39 (7.55~9.23)	5.63 (5.07~6.19)	22.0	2020/1/26
D835V2	Head	2.47	1.61	9.88	6.44	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.0	2020/1/13
D835V2	Head	2.60	1.70	10.40	6.80	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.0	2020/1/21
D835V2	Head	2.59	1.69	10.36	6.76	9.64 (8.68~10.60)	6.29 (5.66~6.92)	22.0	2020/1/28
D1750V2	Head	9.16	4.87	36.64	19.48	36.3 (32.67~39.93)	19.2 (17.28~21.12)	21.9	2020/1/18
D1750V2	Head	9.52	5.05	38.08	20.20	36.3 (32.67~39.93)	19.2 (17.28~21.12)	21.9	2020/1/19
D1900V2	Head	10.2	5.28	40.80	21.12	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.1	2020/1/16
D1900V2	Head	10.5	5.41	42.00	21.64	39.3 (35.37~43.23)	20.2 (18.18~22.22)	22.1	2020/2/21
D2450V2	Head	12.90	6.05	51.60	24.20	51.9 (46.71~57.09)	23.8 (21.42~26.18)	21.8	2020/2/1
D2450V2	Head	13.30	6.17	53.20	24.68	51.9 (46.71~57.09)	23.8 (21.42~26.18)	21.8	2020/2/25
D2600V2	Head	14.20	6.24	56.80	24.96	56.8 (51.12~62.48)	24.9 (22.41~27.39)	21.9	2020/1/27
D2600V2	Head	13.50	6.03	54.00	24.12	56.8 (51.12~62.48)	24.9 (22.41~27.39)	21.9	2020/2/14
D2600V2	Head	14.20	6.35	56.80	25.40	56.8 (51.12~62.48)	24.9 (22.41~27.39)	21.9	2020/2/17
D2600V2	Head	14.30	6.44	57.20	25.76	56.8 (51.12~62.48)	24.9 (22.41~27.39)	21.9	2020/2/18
Validation Kit		**Measured SAR 100mW**	**Measured SAR 100mW**	**Measured SAR (normalized to 1W)**	**Measured SAR (normalized to 1W)**	**Target SAR (normalized to 1W) (±10%)**	**Target SAR (normalized to 1W) (±10%)**	**Liquid Temp. (℃)**	**Measured Date**
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2	Head (5.25GHz)	7.03	2.00	70.30	20.00	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.3	2020/1/25
	Head (5.25GHz)	8.17	2.35	81.70	23.50	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.3	2020/1/26
	Head (5.25GHz)	8.07	2.32	80.70	23.20	75.2 (67.68~82.72)	21.5 (19.35~23.65)	22.3	2020/2/1
	Head(5.6GHz)	7.84	2.21	78.40	22.10	80 (72~88)	22.7 (20.43~24.97)	22.3	2020/1/25
	Head (5.6GHz)	8.69	2.48	86.90	24.80	80 (72~88)	22.7 (20.43~24.97)	22.3	2020/1/26
	Head (5.6GHz)	8.58	2.45	85.80	24.50	80 (72~88)	22.7 (20.43~24.97)	22.3	2020/2/1
	Head (5.75GHz)	8.40	2.39	84.00	23.90	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.3	2020/1/25
	Head (5.75GHz)	8.06	2.30	80.60	23.00	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.3	2020/1/26
	Head (5.75GHz)	7.96	2.27	79.60	22.70	78.7 (70.83~86.57)	22.3 (20.07~24.53)	22.3	2020/2/1

Table 5： SAR System Check Result

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6.2.3 Detailed System Check Results

Please see the Appendix A

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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to “5”and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode

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7.2.2 WCDMA Test Configuration

1）. Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2）. Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3）. Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4）. HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ 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

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	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

Note1: △ACK, △NACK and △CQI= 8 Ahs = βhs/βc=30/15 βhs=30/15*βc
Note2: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 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, △ACK and △NACK= 8 (Ahs=30/15) with βhs=30/15*βc,and △CQI=
7 (Ahs=24/15) with βhs=24/15*βc.
Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH 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.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6： settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter-TTI Interval	MaximumH S-DSCH Transport BlockBits/HS-DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7： HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the „WCDMA Handset" and „Release 5 HSUPA Data Device" sections of 3G device.

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Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	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(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

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 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$

Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Table 8： Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9： HSUPA UE category

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c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.
The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0.
A summary of these settings are illustrated below:
Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH _Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.
The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.
The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10： settings of required H-Set 12 QPSK acc. to 3GPP 34.121

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 above.
2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

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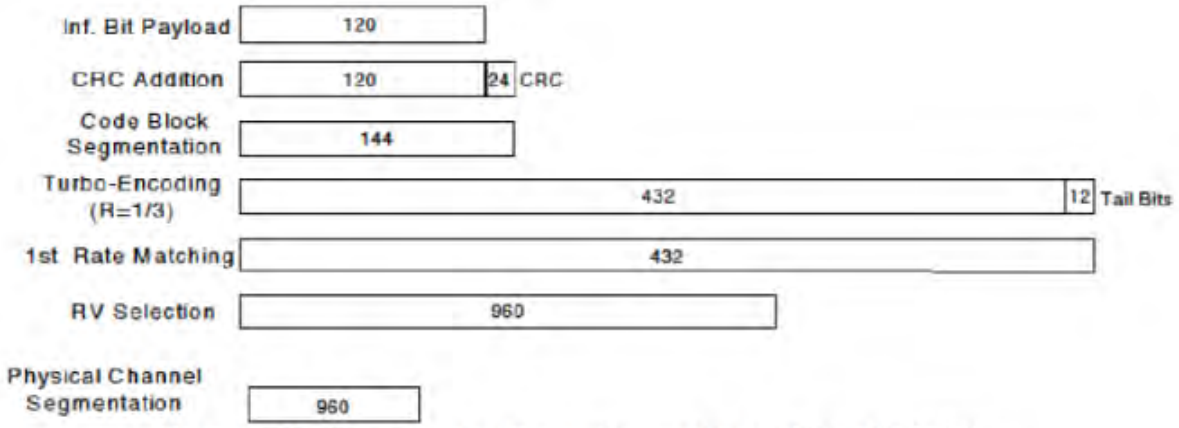

Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	CM(dB)(2)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	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 Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH 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 3: 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 $\beta_d = 15/15$

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn’t support carrier aggregation for it just can operate in Release 8.

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d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

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

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

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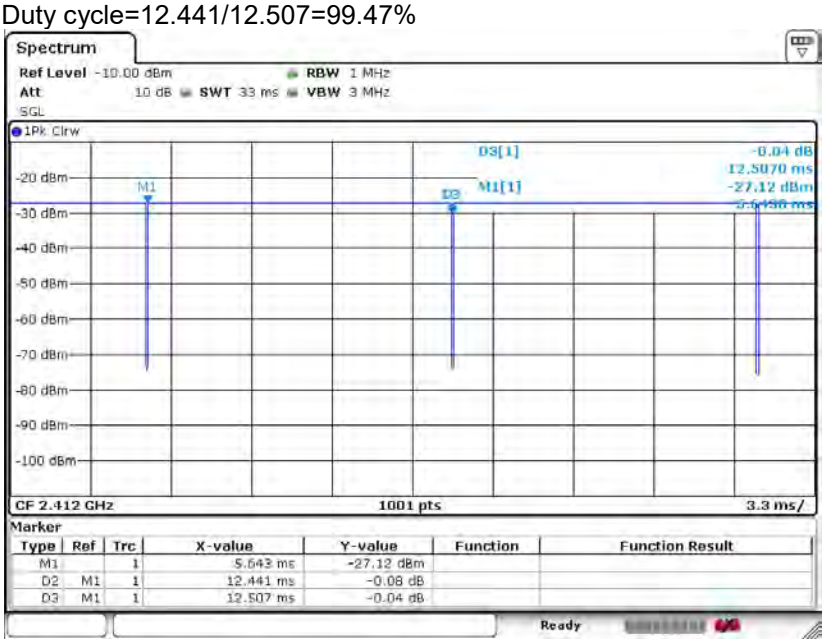
7.2.3 WiFi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

1) WiFi 2.4G Ant9(Chain0) 802.11b:
Duty cycle=12.441/12.507=99.47%



2) WiFi 2.4G Ant8(Chain1) 802.11g:
Duty cycle=2.052/2.1=97.71%

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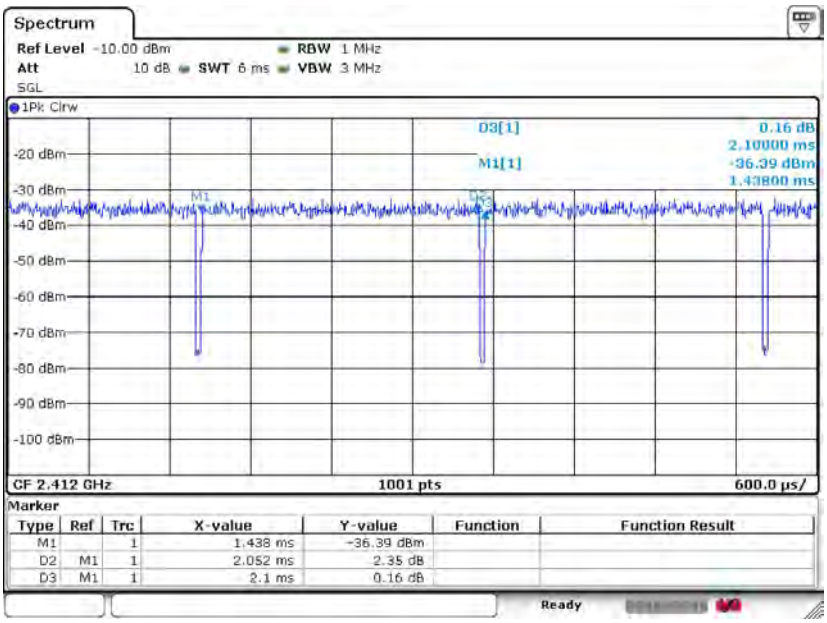

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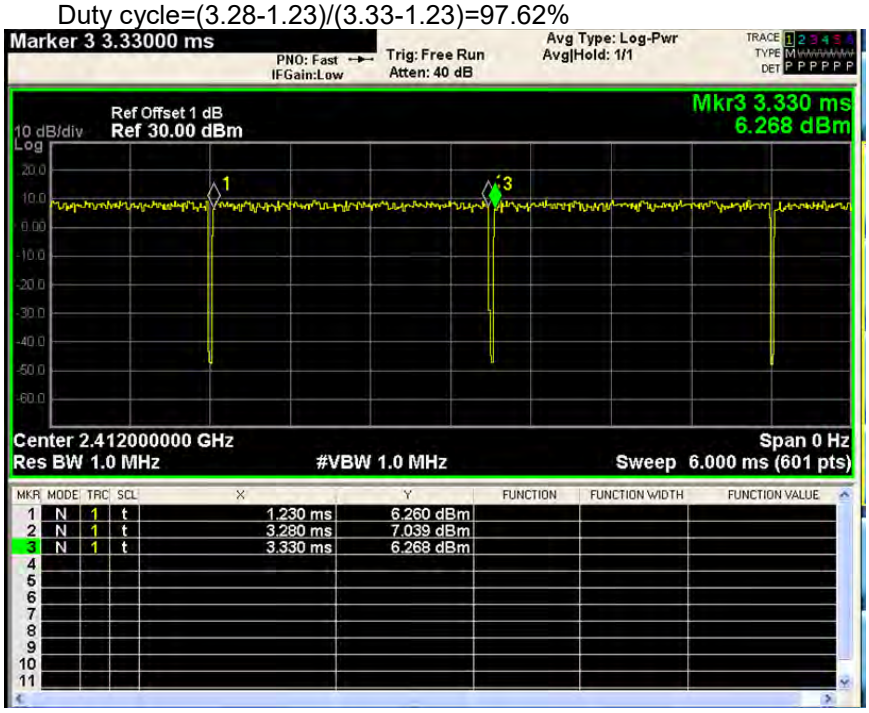
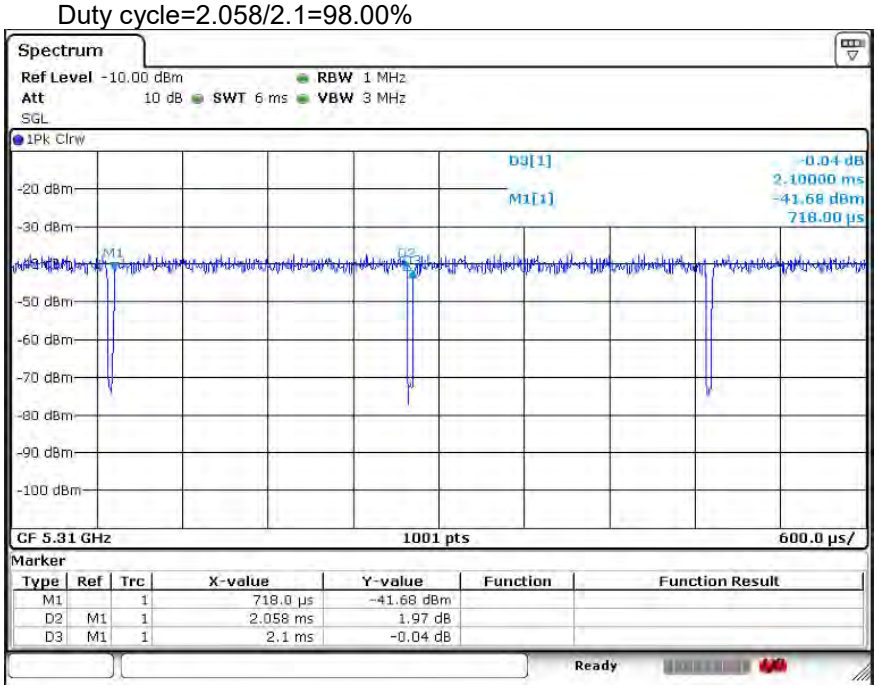
3) WiFi 2.4G MIMO 802.11g:
Duty cycle=(3.28-1.23)/(3.33-1.23)=97.62%



4) WiFi 5G Ant6(Chain0) 802.11a:
Duty cycle=2.058/2.1=98.00%



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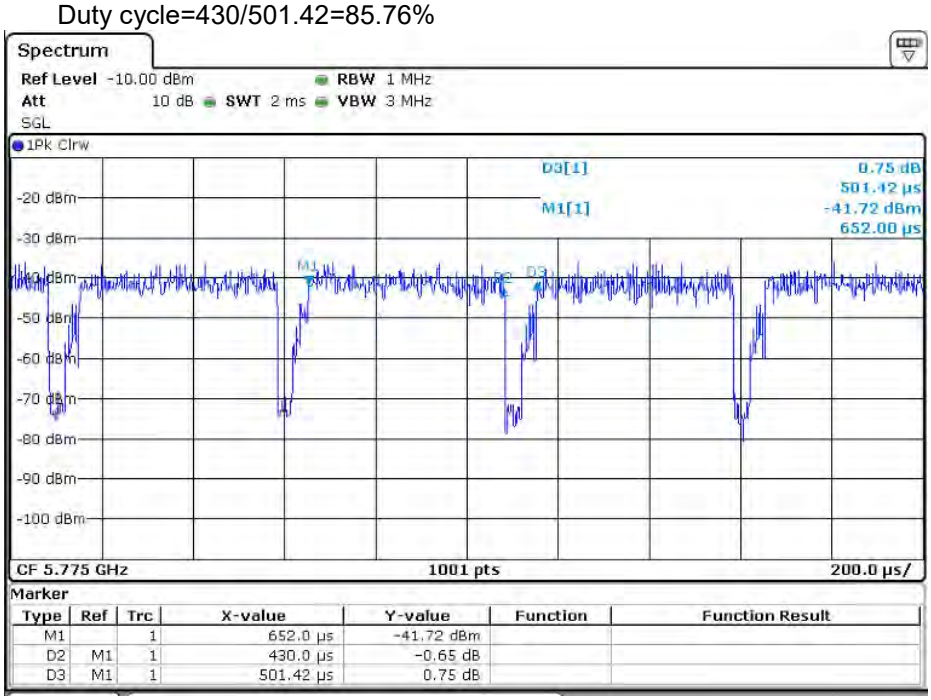
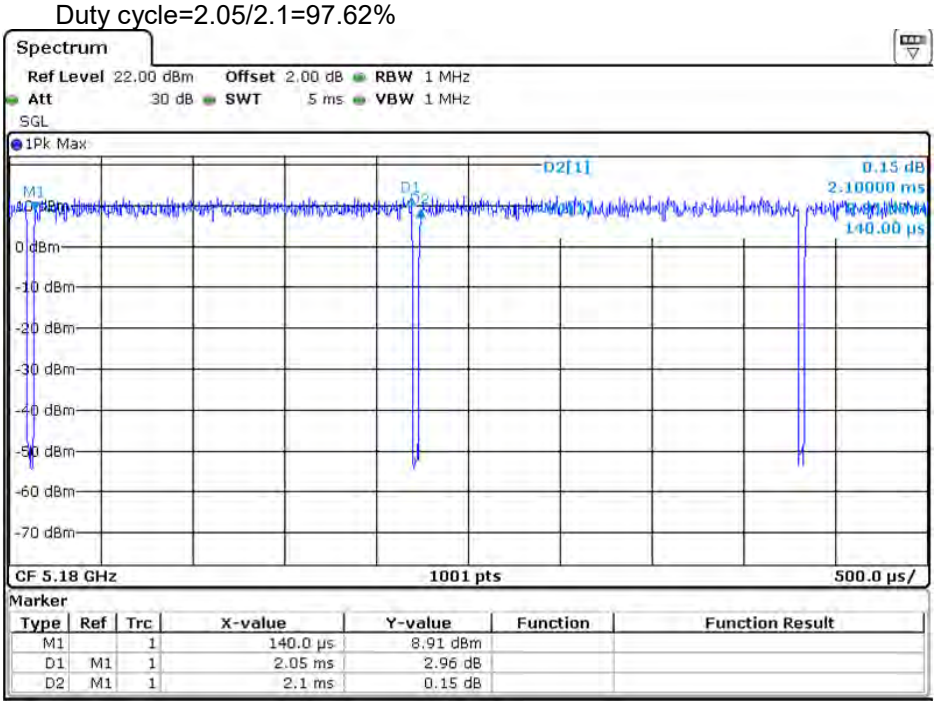
5) WiFi 5G Ant6(Chain0) 802.11ac 80M:
Duty cycle=430/501.42=85.76%



6) WiFi 5G Ant9(Chain1) 802.11a:
Duty cycle=2.05/2.1=97.62%



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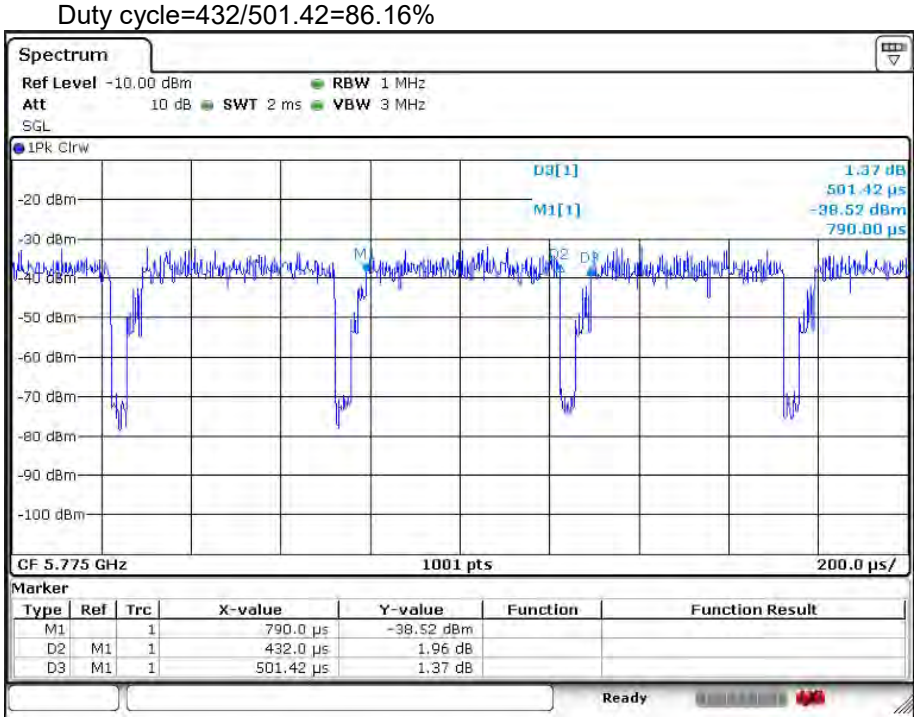
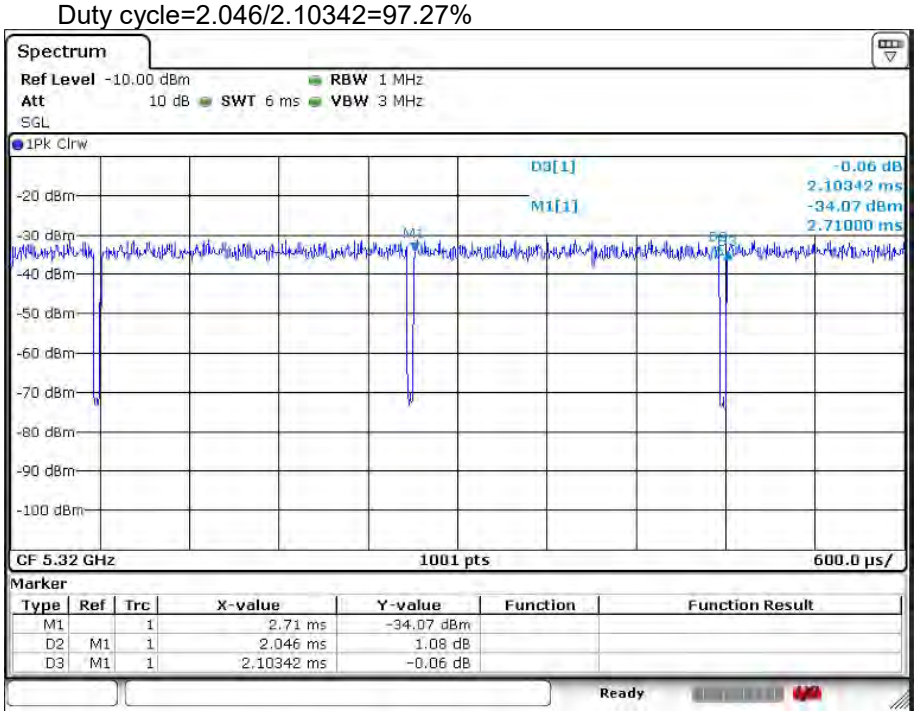
7) WiFi 5G Ant9(Chain1) 802.11ac 80M:
Duty cycle=432/501.42=86.16%



8) WiFi 5G MIMO 802.11a:
Duty cycle=2.046/2.10342=97.27%



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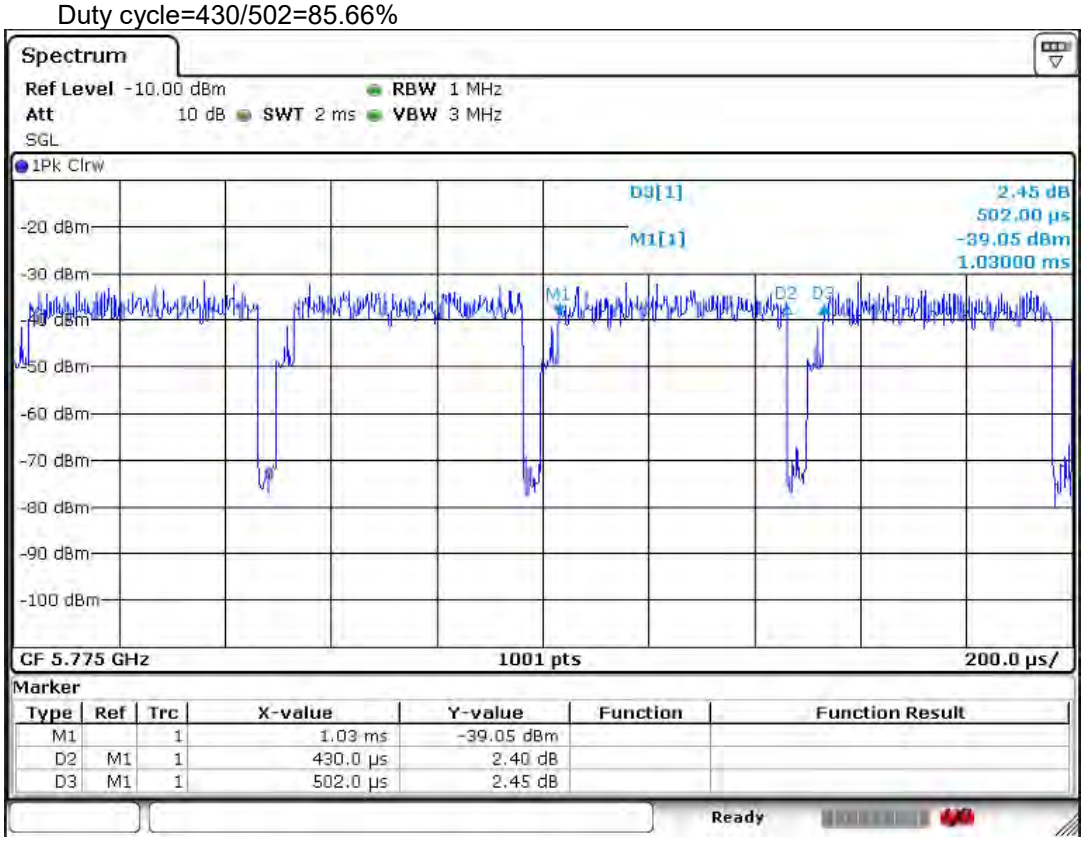
9) WiFi 5G MIMO 802.11ac 80M:
Duty cycle=430/502=85.66%



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

1）. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
2）. When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
3）. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.
For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.
When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

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7.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1）. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

2）. When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

3）. The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.

   a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

   b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.

4）. SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

   a) replace “subsequent test configuration” with “next subsequent test configuration” (i.e., subsequent next highest specified maximum output power configuration)

   b) replace “initial test configuration” with “all tested higher output power configurations”

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7.2.3.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **802.11b DSSS SAR Test Requirements**

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1）. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2）. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

1）. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.

2）. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

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7.2.4 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8821C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

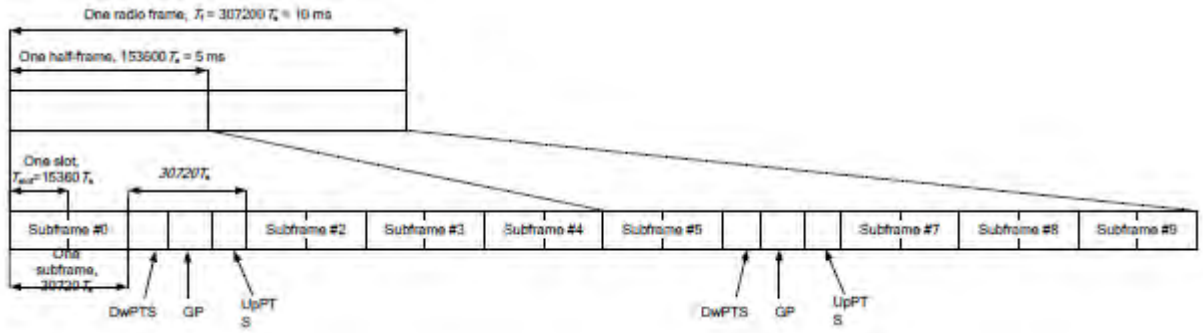

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

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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

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

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

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C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

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 in 1) and 2) 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.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

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8 Test Result

8.1 Measurement of RF conducted Power

8.1.1 Conducted Power of Main Antenna(Ant0)

8.1.1.1 Conducted Power of GSM

GSM 850 Receiver on/Receiver off/WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	32.18	32.55	32.19	33.20	-9.19	22.99	23.36	23.00	24.01
GPRS/ EGPRS (GMSK)	1 TX Slot	32.34	32.43	32.31	33.20	-9.19	23.15	23.24	23.12	24.01
	2 TX Slots	30.61	30.38	30.65	31.70	-6.18	24.43	24.20	24.47	25.52
	3 TX Slots	29.45	28.77	28.49	30.20	-4.42	25.03	24.35	24.07	**25.78**
	4 TX Slots	27.48	27.69	27.53	28.70	-3.17	24.31	24.52	24.36	25.53
EGPRS (8PSK)	1 TX Slot	26.89	27.01	26.78	28.20	-9.19	17.70	17.82	17.59	19.01
	2 TX Slots	25.28	25.19	25.16	26.20	-6.18	19.10	19.01	18.98	20.02
	3 TX Slots	22.98	23.35	23.18	24.20	-4.42	18.56	18.93	18.76	19.78
	4 TX Slots	22.07	22.11	21.69	23.20	-3.17	18.90	18.94	18.52	20.03
GSM 850 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	30.39	30.66	30.35	31.00	-9.19	21.20	21.47	21.16	21.81
GPRS/ EGPRS (GMSK)	1 TX Slot	30.43	30.64	30.32	31.00	-9.19	21.24	21.45	21.13	21.81
	2 TX Slots	28.45	28.63	28.49	29.50	-6.18	22.27	22.45	22.31	23.32
	3 TX Slots	26.35	26.57	26.34	28.00	-4.42	21.93	22.15	21.92	**23.58**
	4 TX Slots	25.41	25.67	25.18	26.50	-3.17	22.24	22.50	22.01	23.33
EGPRS (8PSK)	1 TX Slot	24.97	25.03	24.96	26.00	-9.19	15.78	15.84	15.77	16.81
	2 TX Slots	22.58	22.95	22.66	24.00	-6.18	16.40	16.77	16.48	17.82
	3 TX Slots	20.74	20.78	20.44	22.00	-4.42	16.32	16.36	16.02	17.58
	4 TX Slots	19.77	19.88	19.75	21.00	-3.17	16.60	16.71	16.58	17.83

Table 11： Conducted Power of GSM

Note:

1）. CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2）. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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8.1.1.2 Conducted Power of WCDMA

WCDMA Band V Receiver on/Receiver off					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	24.18	24.22	24.09	25.00
	12.2kbps AMR	24.16	24.20	24.13	25.00
HSDPA	Subtest 1	23.02	23.05	22.98	24.50
	Subtest 2	23.00	23.06	22.95	24.50
	Subtest 3	22.48	22.55	22.34	24.00
	Subtest 4	22.51	22.54	22.44	24.00
HSUPA	Subtest 1	23.03	23.01	22.90	24.50
	Subtest 2	20.99	21.03	20.90	22.00
	Subtest 3	22.02	21.99	21.92	23.50
	Subtest 4	20.98	21.04	20.92	22.00
	Subtest 5	23.00	23.10	22.90	24.50
DC-HSDPA	Subtest 1	23.02	23.07	22.96	24.50
	Subtest 2	22.96	23.01	22.93	24.50
	Subtest 3	22.52	22.52	22.37	24.00
	Subtest 4	22.51	22.58	22.43	24.00
HSPA+	16QAM	22.95	23.08	22.95	24.50

WCDMA Band V WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	21.82	21.98	21.80	22.70
	12.2kbps AMR	21.81	21.95	21.76	22.70
HSDPA	Subtest 1	20.69	20.78	20.66	22.20
	Subtest 2	20.66	20.75	20.63	22.20
	Subtest 3	20.18	20.22	20.13	21.70
	Subtest 4	20.16	20.27	20.08	21.70
HSUPA	Subtest 1	20.68	20.71	20.54	22.20
	Subtest 2	18.62	18.66	18.57	19.70
	Subtest 3	19.65	19.69	19.60	21.20
	Subtest 4	18.67	18.67	18.59	19.70
	Subtest 5	20.60	20.70	20.50	22.20
DC-HSDPA	Subtest 1	20.67	20.73	20.66	22.20
	Subtest 2	20.64	20.70	20.62	22.20
	Subtest 3	20.14	20.26	20.17	21.70
	Subtest 4	20.11	20.26	20.06	21.70
HSPA+	16QAM	20.68	20.68	20.56	22.20

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WCDMA Band V WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	21.63	21.76	21.65	22.60
	12.2kbps AMR	21.62	21.73	21.64	22.60
HSDPA	Subtest 1	20.60	20.68	20.55	22.10
	Subtest 2	20.57	20.63	20.52	22.10
	Subtest 3	20.12	20.15	20.03	21.60
	Subtest 4	20.13	20.11	20.07	21.60
HSUPA	Subtest 1	20.66	20.68	20.54	22.10
	Subtest 2	18.64	18.67	18.51	19.60
	Subtest 3	19.63	19.67	19.55	21.10
	Subtest 4	18.65	18.64	18.55	19.60
	Subtest 5	20.60	20.70	20.50	22.10
DC-HSDPA	Subtest 1	20.61	20.72	20.56	22.10
	Subtest 2	20.60	20.65	20.54	22.10
	Subtest 3	20.11	20.18	20.02	21.60
	Subtest 4	20.14	20.15	20.02	21.60
HSPA+	16QAM	20.60	20.68	20.47	22.10

Table 12：Conducted Power of WCDMA

Note:

1) when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

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8.1.1.3 Conducted Power of LTE

LTE Band 5 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	22.82	22.83	22.85	24.30
		1	2	22.92	22.93	22.87	24.30
		1	5	22.90	22.89	22.79	24.30
		3	0	22.88	22.88	22.88	24.30
		3	2	22.92	22.97	22.94	24.30
		3	3	22.90	22.94	22.86	24.30
		6	0	22.44	22.59	22.44	23.30
	16QAM	1	0	22.72	22.57	22.79	23.30
		1	2	22.93	22.85	22.59	23.30
		1	5	22.92	23.00	22.71	23.30
		3	0	22.43	22.44	22.43	23.30
		3	2	22.55	22.40	22.38	23.30
		3	3	22.48	22.47	22.49	23.30
		6	0	21.57	21.71	21.60	22.30
	64QAM	1	0	22.03	21.56	21.75	22.30
		1	2	21.95	21.95	21.69	22.30
		1	5	21.86	21.97	21.60	22.30
		3	0	21.53	21.50	21.52	22.30
		3	2	21.58	21.64	21.65	22.30
		3	3	21.63	21.72	21.63	22.30
		6	0	20.69	20.64	20.85	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	23.00	23.00	22.97	24.30
		1	7	22.86	23.03	23.04	24.30
		1	14	22.95	22.94	22.88	24.30
		8	0	22.49	22.62	22.48	23.30
		8	4	22.55	22.63	22.54	23.30
		8	7	22.52	22.59	22.53	23.30
		15	0	22.63	22.58	22.53	23.30
	16QAM	1	0	22.70	23.02	22.98	23.30
		1	7	22.36	22.72	22.57	23.30
		1	14	22.69	22.79	22.96	23.30
		8	0	21.60	21.61	21.55	22.30
		8	4	21.70	21.62	21.57	22.30
		8	7	21.66	21.69	21.56	22.30
		15	0	21.60	21.56	21.71	22.30
	64QAM	1	0	22.23	21.91	21.82	22.30
		1	7	22.30	22.05	21.82	22.30
		1	14	21.76	21.93	22.10	22.30
		8	0	20.76	20.79	20.68	21.30
		8	4	20.71	20.88	20.76	21.30
		8	7	20.61	20.63	20.56	21.30
		15	0	20.75	20.73	20.76	21.30

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	23.04	22.96	22.94	24.30
		1	13	22.99	22.96	23.00	24.30
		1	24	22.91	23.05	22.91	24.30
		12	0	22.59	22.62	22.51	23.30
		12	6	22.60	22.62	22.50	23.30
		12	13	22.63	22.59	22.53	23.30
		25	0	22.62	22.55	22.51	23.30
	16QAM	1	0	23.04	22.89	22.72	23.30
		1	13	23.05	22.72	22.94	23.30
		1	24	22.54	22.92	22.45	23.30
		12	0	21.50	21.65	21.65	22.30
		12	6	21.69	21.57	21.46	22.30
		12	13	21.58	21.53	21.44	22.30
		25	0	21.62	21.49	21.57	22.30
	64QAM	1	0	21.74	21.85	22.06	22.30
		1	13	21.81	22.04	21.92	22.30
		1	24	22.01	22.08	21.98	22.30
		12	0	20.73	20.86	20.67	21.30
		12	6	20.78	20.75	20.67	21.30
		12	13	20.70	20.74	20.81	21.30
		25	0	20.88	20.81	20.89	21.30

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	22.96	23.14	22.79	24.30
		1	25	22.74	22.92	22.84	24.30
		1	49	22.93	22.75	22.86	24.30
		25	0	22.58	22.60	22.56	23.30
		25	13	22.65	22.34	22.50	23.30
		25	25	22.54	22.61	22.55	23.30
		50	0	22.51	22.60	22.48	23.30
	16QAM	1	0	22.94	22.72	22.63	23.30
		1	25	23.00	23.03	23.06	23.30
		1	49	22.68	22.65	23.03	23.30
		25	0	21.54	21.54	21.34	22.30
		25	13	21.61	21.61	21.51	22.30
		25	25	21.57	21.59	21.73	22.30
		50	0	21.66	21.54	21.61	22.30
	64QAM	1	0	21.72	21.92	21.82	22.30
		1	25	21.79	21.87	21.84	22.30
		1	49	21.84	21.80	21.79	22.30
		25	0	20.64	20.72	20.60	21.30
		25	13	20.77	20.75	20.83	21.30
		25	25	20.69	20.80	20.79	21.30
		50	0	20.75	20.65	20.82	21.30

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LTE Band 5 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	22.25	22.23	22.22	23.50
		1	2	22.24	22.25	22.28	23.50
		1	5	22.19	22.21	22.22	23.50
		3	0	22.17	22.23	22.20	23.50
		3	2	22.32	22.27	22.23	23.50
		3	3	22.26	22.31	22.25	23.50
		6	0	22.37	22.33	22.29	23.50
	16QAM	1	0	22.23	22.71	22.52	23.50
		1	2	22.81	22.80	22.60	23.50
		1	5	22.40	22.48	22.27	23.50
		3	0	22.25	22.26	22.23	23.50
		3	2	22.38	22.48	22.40	23.50
		3	3	22.23	22.51	22.34	23.50
		6	0	21.73	21.78	21.70	22.80
	64QAM	1	0	21.88	21.41	21.62	22.80
		1	2	21.93	21.89	21.55	22.80
		1	5	21.76	21.88	21.53	22.80
		3	0	21.31	21.31	21.42	22.80
		3	2	21.55	21.67	21.48	22.80
		3	3	21.62	21.65	21.68	22.80
		6	0	20.65	20.61	20.81	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	22.20	22.40	22.38	23.50
		1	7	22.23	22.32	22.38	23.50
		1	14	22.15	22.26	22.26	23.50
		8	0	22.37	22.40	22.38	23.50
		8	4	22.42	22.37	22.41	23.50
		8	7	22.36	22.43	22.33	23.50
		15	0	22.40	22.39	22.29	23.50
	16QAM	1	0	22.38	22.51	22.57	23.50
		1	7	22.35	22.42	22.55	23.50
		1	14	22.63	22.42	22.71	23.50
		8	0	21.56	21.73	21.69	22.80
		8	4	21.73	21.78	21.74	22.80
		8	7	21.60	21.72	21.67	22.80
		15	0	21.73	21.73	21.69	22.80
	64QAM	1	0	22.18	21.78	21.81	22.80
		1	7	22.22	21.92	21.77	22.80
		1	14	21.69	21.76	21.91	22.80
		8	0	20.61	20.74	20.48	21.80
		8	4	20.68	20.75	20.62	21.80
		8	7	20.44	20.65	20.46	21.80
		15	0	20.73	20.73	20.63	21.80

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	22.39	22.39	22.42	23.50
		1	13	22.31	22.34	22.32	23.50
		1	24	22.34	22.37	22.30	23.50
		12	0	22.39	22.43	22.41	23.50
		12	6	22.46	22.45	22.41	23.50
		12	13	22.40	22.36	22.35	23.50
		25	0	22.42	22.40	22.37	23.50
	16QAM	1	0	22.79	22.77	22.73	23.50
		1	13	22.80	22.82	22.69	23.50
		1	24	22.81	22.49	22.50	23.50
		12	0	21.68	21.70	21.70	22.80
		12	6	21.73	21.73	21.81	22.80
		12	13	21.80	21.77	21.69	22.80
		25	0	21.72	21.78	21.64	22.80
	64QAM	1	0	21.58	21.80	22.31	22.80
		1	13	21.76	21.85	21.80	22.80
		1	24	22.33	21.85	21.94	22.80
		12	0	20.62	20.70	20.62	21.80
		12	6	20.55	20.56	20.58	21.80
		12	13	20.68	20.73	20.58	21.80
		25	0	20.76	20.74	20.71	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	22.40	22.25	22.38	23.50
		1	25	22.55	22.37	22.30	23.50
		1	49	22.32	22.18	22.11	23.50
		25	0	22.40	22.45	22.43	23.50
		25	13	22.42	22.43	22.46	23.50
		25	25	22.36	22.37	22.30	23.50
		50	0	22.52	22.34	22.50	23.50
	16QAM	1	0	22.47	22.56	22.72	23.50
		1	25	22.80	22.80	22.83	23.50
		1	49	22.55	22.62	22.42	23.50
		25	0	21.80	21.77	21.77	22.80
		25	13	21.82	21.78	21.62	22.80
		25	25	21.58	21.74	21.77	22.80
		50	0	21.82	21.74	21.78	22.80
	64QAM	1	0	21.51	21.77	22.34	22.80
		1	25	21.92	22.07	21.90	22.80
		1	49	21.65	21.65	21.57	22.80
		25	0	20.67	20.75	20.72	21.80
		25	13	20.50	20.99	20.94	21.80
		25	25	20.70	20.83	20.82	21.80
		50	0	20.69	20.69	20.80	21.80

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LTE Band 5 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.79	20.81	20.79	22.20
		1	2	20.71	20.96	20.86	22.20
		1	5	20.84	20.79	20.77	22.20
		3	0	20.77	20.83	20.74	22.20
		3	2	20.80	20.89	20.75	22.20
		3	3	20.79	20.88	20.72	22.20
		6	0	20.82	20.95	20.83	22.20
	16QAM	1	0	21.00	21.05	20.99	22.20
		1	2	21.04	20.93	20.93	22.20
		1	5	20.79	21.03	21.15	22.20
		3	0	20.93	20.91	20.81	22.20
		3	2	20.79	20.99	20.90	22.20
		3	3	20.83	20.93	20.75	22.20
		6	0	21.01	21.03	20.89	22.20
	64QAM	1	0	20.82	21.19	20.74	22.20
		1	2	20.81	20.72	20.78	22.20
		1	5	20.58	20.81	20.95	22.20
		3	0	20.69	20.69	20.57	22.20
		3	2	20.56	20.84	20.67	22.20
		3	3	20.65	20.76	20.58	22.20
		6	0	20.82	20.83	20.65	22.20
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.80	20.94	20.81	22.20
		1	7	20.88	20.83	20.86	22.20
		1	14	20.81	20.82	20.76	22.20
		8	0	20.87	20.95	20.86	22.20
		8	4	21.03	20.98	21.01	22.20
		8	7	20.88	21.01	20.90	22.20
		15	0	21.01	21.01	20.95	22.20
	16QAM	1	0	20.96	21.17	21.09	22.20
		1	7	21.07	20.94	20.73	22.20
		1	14	20.90	21.25	21.07	22.20
		8	0	21.00	20.99	20.97	22.20
		8	4	20.97	21.15	21.09	22.20
		8	7	21.05	20.90	21.00	22.20
		15	0	21.00	20.98	20.95	22.20
	64QAM	1	0	20.77	21.00	21.27	22.20
		1	7	20.87	20.74	20.57	22.20
		1	14	20.71	21.10	20.89	22.20
		8	0	20.75	20.75	20.81	22.20
		8	4	20.73	21.00	20.86	22.20
		8	7	20.81	20.74	20.76	22.20
		15	0	20.83	20.76	20.70	22.20

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	20.92	20.83	20.91	22.20
		1	13	20.93	20.93	20.94	22.20
		1	24	20.86	20.95	20.88	22.20
		12	0	20.97	21.04	20.99	22.20
		12	6	20.96	21.01	20.96	22.20
		12	13	21.02	20.97	20.94	22.20
		25	0	20.98	20.95	20.97	22.20
	16QAM	1	0	21.26	21.28	21.08	22.20
		1	13	21.02	21.27	21.25	22.20
		1	24	21.28	21.02	21.00	22.20
		12	0	21.00	20.98	20.87	22.20
		12	6	20.82	20.96	20.84	22.20
		12	13	20.95	20.99	20.89	22.20
		25	0	20.93	21.00	20.94	22.20
	64QAM	1	0	21.15	21.16	20.87	22.20
		1	13	21.25	21.16	21.13	22.20
		1	24	21.21	21.22	20.75	22.20
		12	0	20.75	20.75	20.64	22.20
		12	6	20.66	20.81	20.63	22.20
		12	13	20.76	20.76	20.74	22.20
		25	0	20.70	20.76	20.69	22.20

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.68	20.76	20.87	22.20
		1	25	20.74	20.92	20.88	22.20
		1	49	20.97	20.63	20.98	22.20
		25	0	20.94	21.02	20.99	22.20
		25	13	21.11	21.00	20.99	22.20
		25	25	20.99	21.01	20.89	22.20
		50	0	20.98	21.03	20.98	22.20
	16QAM	1	0	20.82	21.06	20.87	22.20
		1	25	21.22	21.23	21.29	22.20
		1	49	21.16	21.02	21.13	22.20
		25	0	20.94	20.92	20.74	22.20
		25	13	20.97	21.06	20.92	22.20
		25	25	21.12	21.14	20.91	22.20
		50	0	20.92	21.01	21.03	22.20
	64QAM	1	0	20.59	21.25	20.64	22.20
		1	25	21.23	21.07	21.23	22.20
		1	49	20.93	20.81	20.90	22.20
		25	0	20.77	20.72	20.54	22.20
		25	13	20.74	20.83	20.67	22.20
		25	25	20.89	20.97	20.68	22.20
		50	0	20.77	20.80	20.87	22.20

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LTE Band 5 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.40	20.43	20.45	21.70
		1	2	20.41	20.62	20.47	21.70
		1	5	20.42	20.42	20.45	21.70
		3	0	20.32	20.39	20.46	21.70
		3	2	20.55	20.52	20.48	21.70
		3	3	20.42	20.49	20.47	21.70
		6	0	20.53	20.55	20.67	21.70
	16QAM	1	0	20.67	20.46	20.80	21.70
		1	2	20.75	20.82	20.82	21.70
		1	5	20.75	20.63	20.83	21.70
		3	0	20.44	20.51	20.54	21.70
		3	2	20.65	20.64	20.58	21.70
		3	3	20.58	20.58	20.38	21.70
		6	0	20.60	20.66	20.69	21.70
	64QAM	1	0	20.52	20.26	20.73	21.70
		1	2	20.68	20.65	20.70	21.70
		1	5	20.70	20.54	20.81	21.70
		3	0	20.24	20.41	20.53	21.70
		3	2	20.59	20.56	20.43	21.70
		3	3	20.45	20.40	20.35	21.70
		6	0	20.40	20.49	20.50	21.70
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.27	20.60	20.45	21.70
		1	7	20.25	20.54	20.55	21.70
		1	14	20.51	20.47	20.45	21.70
		8	0	20.59	20.57	20.53	21.70
		8	4	20.58	20.68	20.81	21.70
		8	7	20.63	20.61	20.56	21.70
		15	0	20.62	20.58	20.50	21.70
	16QAM	1	0	20.82	20.82	20.53	21.70
		1	7	20.79	20.81	20.83	21.70
		1	14	20.66	20.80	20.60	21.70
		8	0	20.59	20.65	20.61	21.70
		8	4	20.67	20.68	20.68	21.70
		8	7	20.60	20.73	20.69	21.70
		15	0	20.70	20.70	20.52	21.70
	64QAM	1	0	20.83	20.80	20.47	21.70
		1	7	20.83	20.81	20.82	21.70
		1	14	20.61	20.82	20.59	21.70
		8	0	20.45	20.48	20.53	21.70
		8	4	20.60	20.59	20.51	21.70
		8	7	20.43	20.58	20.63	21.70
		15	0	20.53	20.63	20.37	21.70

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	20.54	20.62	20.58	21.70
		1	13	20.66	20.59	20.57	21.70
		1	24	20.63	20.62	20.52	21.70
		12	0	20.57	20.65	20.59	21.70
		12	6	20.63	20.63	20.61	21.70
		12	13	20.61	20.59	20.52	21.70
		25	0	20.65	20.64	20.56	21.70
	16QAM	1	0	20.60	20.66	20.79	21.70
		1	13	20.83	20.43	20.51	21.70
		1	24	20.39	20.57	20.78	21.70
		12	0	20.45	20.67	20.66	21.70
		12	6	20.63	20.63	20.62	21.70
		12	13	20.53	20.68	20.62	21.70
		25	0	20.64	20.69	20.70	21.70
	64QAM	1	0	20.60	20.56	20.62	21.70
		1	13	20.79	20.36	20.37	21.70
		1	24	20.27	20.55	20.67	21.70
		12	0	20.42	20.58	20.50	21.70
		12	6	20.44	20.47	20.54	21.70
		12	13	20.35	20.52	20.58	21.70
		25	0	20.61	20.51	20.67	21.70

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.37	20.59	20.55	21.70
		1	25	20.40	20.44	20.53	21.70
		1	49	20.55	20.73	20.50	21.70
		25	0	20.66	20.59	20.59	21.70
		25	13	20.67	20.65	20.67	21.70
		25	25	20.62	20.63	20.56	21.70
		50	0	20.70	20.65	20.65	21.70
	16QAM	1	0	20.43	20.81	20.82	21.70
		1	25	20.80	20.70	20.84	21.70
		1	49	20.83	20.78	20.61	21.70
		25	0	20.47	20.75	20.58	21.70
		25	13	20.73	20.75	20.64	21.70
		25	25	20.66	20.44	20.60	21.70
		50	0	20.58	20.54	20.74	21.70
	64QAM	1	0	20.76	20.82	20.46	21.70
		1	25	20.81	20.80	20.78	21.70
		1	49	20.47	20.78	20.72	21.70
		25	0	20.62	20.60	20.58	21.70
		25	13	20.46	20.59	20.78	21.70
		25	25	20.49	20.61	20.54	21.70
		50	0	20.52	20.58	20.67	21.70

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LTE Band 7 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	16.24	15.97	16.05	17.20
		1	13	16.24	16.08	16.16	17.20
		1	24	16.18	16.07	16.06	17.20
		12	0	16.31	16.11	16.19	17.20
		12	6	16.25	16.18	16.19	17.20
		12	13	16.28	16.18	16.26	17.20
		25	0	16.26	16.29	16.23	17.20
	16QAM	1	0	16.32	16.53	16.36	17.20
		1	13	16.39	16.26	16.37	17.20
		1	24	16.35	16.32	16.72	17.20
		12	0	16.36	16.18	16.24	17.20
		12	6	16.35	16.27	16.22	17.20
		12	13	16.40	16.17	16.32	17.20
		25	0	16.22	16.23	16.30	17.20
	64QAM	1	0	16.33	16.58	16.35	17.20
		1	13	16.37	16.28	16.40	17.20
		1	24	16.40	16.29	16.73	17.20
		12	0	16.41	16.20	16.27	17.20
		12	6	16.33	16.22	16.27	17.20
		12	13	16.43	16.14	16.37	17.20
		25	0	16.21	16.25	16.35	17.20
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	16.17	16.00	16.02	17.20
		1	25	16.11	15.99	16.08	17.20
		1	49	16.05	16.07	16.16	17.20
		25	0	16.35	16.16	16.20	17.20
		25	13	16.30	16.22	16.34	17.20
		25	25	16.35	16.24	16.31	17.20
		50	0	16.36	16.23	16.26	17.20
	16QAM	1	0	16.72	16.61	16.71	17.20
		1	25	16.78	16.61	16.49	17.20
		1	49	16.76	16.72	16.60	17.20
		25	0	16.35	16.27	16.28	17.20
		25	13	16.34	16.24	16.38	17.20
		25	25	16.39	16.26	16.34	17.20
		50	0	16.38	16.30	16.26	17.20
	64QAM	1	0	16.67	16.62	16.71	17.20
		1	25	16.81	16.58	16.50	17.20
		1	49	16.72	16.76	16.56	17.20
		25	0	16.30	16.32	16.25	17.20
		25	13	16.32	16.19	16.40	17.20
		25	25	16.44	16.23	16.38	17.20
		50	0	16.36	16.25	16.23	17.20

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	16.33	16.24	16.33	17.20
		1	38	16.43	16.30	16.51	17.20
		1	74	16.46	16.42	16.59	17.20
		36	0	16.48	16.41	16.41	17.20
		36	18	16.56	16.48	16.46	17.20
		36	39	16.58	16.49	16.62	17.20
		75	0	16.47	16.40	16.46	17.20
	16QAM	1	0	16.67	16.50	16.59	17.20
		1	38	16.87	16.51	16.54	17.20
		1	74	16.81	16.35	16.46	17.20
		36	0	16.58	16.41	16.41	17.20
		36	18	16.58	16.55	16.47	17.20
		36	39	16.63	16.52	16.56	17.20
		75	0	16.59	16.49	16.56	17.20
	64QAM	1	0	16.67	16.46	16.58	17.20
		1	38	16.85	16.54	16.51	17.20
		1	74	16.77	16.35	16.45	17.20
		36	0	16.56	16.43	16.46	17.20
		36	18	16.55	16.53	16.49	17.20
		36	39	16.63	16.55	16.53	17.20
		75	0	16.59	16.52	16.53	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	16.22	16.36	16.39	17.20
		1	50	16.25	16.45	16.34	17.20
		1	99	16.39	16.38	16.44	17.20
		50	0	16.42	16.36	16.42	17.20
		50	25	16.48	16.57	16.49	17.20
		50	50	16.53	16.43	16.56	17.20
		100	0	16.56	16.53	16.50	17.20
	16QAM	1	0	16.52	16.70	16.89	17.20
		1	50	16.41	16.41	16.88	17.20
		1	99	16.68	16.83	16.87	17.20
		50	0	16.41	16.41	16.43	17.20
		50	25	16.56	16.46	16.52	17.20
		50	50	16.49	16.53	16.61	17.20
		100	0	16.46	16.41	16.52	17.20
	64QAM	1	0	16.48	16.67	16.88	17.20
		1	50	16.36	16.43	16.87	17.20
		1	99	16.72	16.84	16.85	17.20
		50	0	16.41	16.41	16.45	17.20
		50	25	16.56	16.47	16.55	17.20
		50	50	16.46	16.57	16.60	17.20
		100	0	16.46	16.43	16.50	17.20

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LTE Band 7 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	21.08	20.96	21.03	22.10
		1	13	21.03	21.06	21.04	22.10
		1	24	21.10	21.04	21.02	22.10
		12	0	21.09	20.88	21.09	22.10
		12	6	21.06	21.01	21.03	22.10
		12	13	21.11	20.98	21.11	22.10
		25	0	21.07	20.92	20.99	22.10
	16QAM	1	0	21.20	20.85	21.44	22.10
		1	13	21.13	21.44	21.26	22.10
		1	24	20.94	21.41	20.99	22.10
		12	0	20.05	19.92	19.98	21.10
		12	6	20.02	20.03	19.91	21.10
		12	13	20.08	20.03	20.01	21.10
		25	0	20.13	19.98	19.88	21.10
	64QAM	1	0	20.23	19.85	20.47	21.10
		1	13	20.12	20.47	20.26	21.10
		1	24	20.00	20.47	20.01	21.10
		12	0	19.09	18.90	18.94	20.10
		12	6	19.04	19.06	18.88	20.10
		12	13	19.13	19.08	19.05	20.10
		25	0	19.10	18.99	18.94	20.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	21.25	20.92	21.06	22.10
		1	25	20.84	20.94	20.80	22.10
		1	49	21.09	20.84	20.88	22.10
		25	0	21.07	20.87	20.98	22.10
		25	13	21.16	21.04	21.15	22.10
		25	25	21.09	20.98	21.06	22.10
		50	0	21.10	20.92	21.10	22.10
	16QAM	1	0	21.48	21.21	21.14	22.10
		1	25	21.07	21.14	21.52	22.10
		1	49	21.16	21.49	21.55	22.10
		25	0	20.08	19.98	19.94	21.10
		25	13	20.04	20.01	19.96	21.10
		25	25	20.10	20.11	20.08	21.10
		50	0	20.03	20.04	20.06	21.10
	64QAM	1	0	20.46	20.26	20.17	21.10
		1	25	20.09	20.19	20.51	21.10
		1	49	20.19	20.50	20.58	21.10
		25	0	19.05	18.99	18.93	20.10
		25	13	19.03	18.97	19.00	20.10
		25	25	19.16	19.17	19.04	20.10
		50	0	18.99	19.08	19.06	20.10

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	21.17	21.07	21.14	22.10
		1	38	21.25	21.26	21.28	22.10
		1	74	21.26	21.29	21.42	22.10
		36	0	21.26	21.18	21.20	22.10
		36	18	21.34	21.29	21.21	22.10
		36	39	21.36	21.27	21.38	22.10
		75	0	21.32	21.27	21.15	22.10
	16QAM	1	0	21.56	21.53	21.27	22.10
		1	38	21.27	21.13	21.39	22.10
		1	74	21.32	21.47	21.56	22.10
		36	0	20.38	20.60	20.17	21.10
		36	18	20.35	20.30	20.24	21.10
		36	39	20.36	20.27	20.38	21.10
		75	0	20.40	20.26	20.14	21.10
	64QAM	1	0	20.62	20.52	20.29	21.10
		1	38	20.25	20.13	20.37	21.10
		1	74	20.35	20.79	20.79	21.10
		36	0	19.41	19.02	19.16	20.10
		36	18	19.34	19.34	19.27	20.10
		36	39	19.40	19.33	19.43	20.10
		75	0	19.36	19.23	19.10	20.10
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	21.20	21.18	21.14	22.10
		1	50	21.40	21.44	21.14	22.10
		1	99	21.38	21.22	21.43	22.10
		50	0	21.23	21.21	21.23	22.10
		50	25	21.33	21.24	21.39	22.10
		50	50	21.33	21.33	21.38	22.10
		100	0	21.35	21.31	21.36	22.10
	16QAM	1	0	21.34	21.51	21.57	22.10
		1	50	21.51	21.19	21.28	22.10
		1	99	21.33	21.25	21.56	22.10
		50	0	20.20	20.14	20.20	21.10
		50	25	20.37	20.30	20.40	21.10
		50	50	20.37	20.36	20.40	21.10
		100	0	20.29	20.25	20.27	21.10
	64QAM	1	0	20.32	20.62	20.31	21.10
		1	50	20.51	20.15	20.26	21.10
		1	99	20.33	20.30	20.57	21.10
		50	0	19.24	19.19	19.25	20.10
		50	25	19.42	19.36	19.42	20.10
		50	50	19.42	19.32	19.42	20.10
		100	0	19.26	19.27	19.28	20.10

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LTE Band 5 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.79	20.81	20.79	22.20
		1	2	20.71	20.96	20.86	22.20
		1	5	20.84	20.79	20.77	22.20
		3	0	20.77	20.83	20.74	22.20
		3	2	20.80	20.89	20.75	22.20
		3	3	20.79	20.88	20.72	22.20
		6	0	20.82	20.95	20.83	22.20
	16QAM	1	0	21.00	21.05	20.99	22.20
		1	2	21.04	20.93	20.93	22.20
		1	5	20.79	21.03	21.15	22.20
		3	0	20.93	20.91	20.81	22.20
		3	2	20.79	20.99	20.90	22.20
		3	3	20.83	20.93	20.75	22.20
		6	0	21.01	21.03	20.89	22.20
	64QAM	1	0	20.82	21.19	20.74	22.20
		1	2	20.81	20.72	20.78	22.20
		1	5	20.58	20.81	20.95	22.20
		3	0	20.69	20.69	20.57	22.20
		3	2	20.56	20.84	20.67	22.20
		3	3	20.65	20.76	20.58	22.20
		6	0	20.82	20.83	20.65	22.20
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.80	20.94	20.81	22.20
		1	7	20.88	20.83	20.86	22.20
		1	14	20.81	20.82	20.76	22.20
		8	0	20.87	20.95	20.86	22.20
		8	4	21.03	20.98	21.01	22.20
		8	7	20.88	21.01	20.90	22.20
		15	0	21.01	21.01	20.95	22.20
	16QAM	1	0	20.96	21.17	21.09	22.20
		1	7	21.07	20.94	20.73	22.20
		1	14	20.90	21.25	21.07	22.20
		8	0	21.00	20.99	20.97	22.20
		8	4	20.97	21.15	21.09	22.20
		8	7	21.05	20.90	21.00	22.20
		15	0	21.00	20.98	20.95	22.20
	64QAM	1	0	20.77	21.00	21.27	22.20
		1	7	20.87	20.74	20.57	22.20
		1	14	20.71	21.10	20.89	22.20
		8	0	20.75	20.75	20.81	22.20
		8	4	20.73	21.00	20.86	22.20
		8	7	20.81	20.74	20.76	22.20
		15	0	20.83	20.76	20.70	22.20

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	20.92	20.83	20.91	22.20
		1	13	20.93	20.93	20.94	22.20
		1	24	20.86	20.95	20.88	22.20
		12	0	20.97	21.04	20.99	22.20
		12	6	20.96	21.01	20.96	22.20
		12	13	21.02	20.97	20.94	22.20
		25	0	20.98	20.95	20.97	22.20
	16QAM	1	0	21.26	21.28	21.08	22.20
		1	13	21.02	21.27	21.25	22.20
		1	24	21.28	21.02	21.00	22.20
		12	0	21.00	20.98	20.87	22.20
		12	6	20.82	20.96	20.84	22.20
		12	13	20.95	20.99	20.89	22.20
		25	0	20.93	21.00	20.94	22.20
	64QAM	1	0	21.15	21.16	20.87	22.20
		1	13	21.25	21.16	21.13	22.20
		1	24	21.21	21.22	20.75	22.20
		12	0	20.75	20.75	20.64	22.20
		12	6	20.66	20.81	20.63	22.20
		12	13	20.76	20.76	20.74	22.20
		25	0	20.70	20.76	20.69	22.20

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.68	20.76	20.87	22.20
		1	25	20.74	20.92	20.88	22.20
		1	49	20.97	20.63	20.98	22.20
		25	0	20.94	21.02	20.99	22.20
		25	13	21.11	21.00	20.99	22.20
		25	25	20.99	21.01	20.89	22.20
		50	0	20.98	21.03	20.98	22.20
	16QAM	1	0	20.82	21.06	20.87	22.20
		1	25	21.22	21.23	21.29	22.20
		1	49	21.16	21.02	21.13	22.20
		25	0	20.94	20.92	20.74	22.20
		25	13	20.97	21.06	20.92	22.20
		25	25	21.12	21.14	20.91	22.20
		50	0	20.92	21.01	21.03	22.20
	64QAM	1	0	20.59	21.25	20.64	22.20
		1	25	21.23	21.07	21.23	22.20
		1	49	20.93	20.81	20.90	22.20
		25	0	20.77	20.72	20.54	22.20
		25	13	20.74	20.83	20.67	22.20
		25	25	20.89	20.97	20.68	22.20
		50	0	20.77	20.80	20.87	22.20

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LTE Band 5 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.40	20.43	20.45	21.70
		1	2	20.41	20.62	20.47	21.70
		1	5	20.42	20.42	20.45	21.70
		3	0	20.32	20.39	20.46	21.70
		3	2	20.55	20.52	20.48	21.70
		3	3	20.42	20.49	20.47	21.70
		6	0	20.53	20.55	20.67	21.70
	16QAM	1	0	20.67	20.46	20.80	21.70
		1	2	20.75	20.82	20.82	21.70
		1	5	20.75	20.63	20.83	21.70
		3	0	20.44	20.51	20.54	21.70
		3	2	20.65	20.64	20.58	21.70
		3	3	20.58	20.58	20.38	21.70
		6	0	20.60	20.66	20.69	21.70
	64QAM	1	0	20.52	20.26	20.73	21.70
		1	2	20.68	20.65	20.70	21.70
		1	5	20.70	20.54	20.81	21.70
		3	0	20.24	20.41	20.53	21.70
		3	2	20.59	20.56	20.43	21.70
		3	3	20.45	20.40	20.35	21.70
		6	0	20.40	20.49	20.50	21.70
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.27	20.60	20.45	21.70
		1	7	20.25	20.54	20.55	21.70
		1	14	20.51	20.47	20.45	21.70
		8	0	20.59	20.57	20.53	21.70
		8	4	20.58	20.68	20.81	21.70
		8	7	20.63	20.61	20.56	21.70
		15	0	20.62	20.58	20.50	21.70
	16QAM	1	0	20.82	20.82	20.53	21.70
		1	7	20.79	20.81	20.83	21.70
		1	14	20.66	20.80	20.60	21.70
		8	0	20.59	20.65	20.61	21.70
		8	4	20.67	20.68	20.68	21.70
		8	7	20.60	20.73	20.69	21.70
		15	0	20.70	20.70	20.52	21.70
	64QAM	1	0	20.83	20.80	20.47	21.70
		1	7	20.83	20.81	20.82	21.70
		1	14	20.61	20.82	20.59	21.70
		8	0	20.45	20.48	20.53	21.70
		8	4	20.60	20.59	20.51	21.70
		8	7	20.43	20.58	20.63	21.70
		15	0	20.53	20.63	20.37	21.70

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	20.54	20.62	20.58	21.70
		1	13	20.66	20.59	20.57	21.70
		1	24	20.63	20.62	20.52	21.70
		12	0	20.57	20.65	20.59	21.70
		12	6	20.63	20.63	20.61	21.70
		12	13	20.61	20.59	20.52	21.70
		25	0	20.65	20.64	20.56	21.70
	16QAM	1	0	20.60	20.66	20.79	21.70
		1	13	20.83	20.43	20.51	21.70
		1	24	20.39	20.57	20.78	21.70
		12	0	20.45	20.67	20.66	21.70
		12	6	20.63	20.63	20.62	21.70
		12	13	20.53	20.68	20.62	21.70
		25	0	20.64	20.69	20.70	21.70
	64QAM	1	0	20.60	20.56	20.62	21.70
		1	13	20.79	20.36	20.37	21.70
		1	24	20.27	20.55	20.67	21.70
		12	0	20.42	20.58	20.50	21.70
		12	6	20.44	20.47	20.54	21.70
		12	13	20.35	20.52	20.58	21.70
		25	0	20.61	20.51	20.67	21.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	20.37	20.59	20.55	21.70
		1	25	20.40	20.44	20.53	21.70
		1	49	20.55	20.73	20.50	21.70
		25	0	20.66	20.59	20.59	21.70
		25	13	20.67	20.65	20.67	21.70
		25	25	20.62	20.63	20.56	21.70
		50	0	20.70	20.65	20.65	21.70
	16QAM	1	0	20.43	20.81	20.82	21.70
		1	25	20.80	20.70	20.84	21.70
		1	49	20.83	20.78	20.61	21.70
		25	0	20.47	20.75	20.58	21.70
		25	13	20.73	20.75	20.64	21.70
		25	25	20.66	20.44	20.60	21.70
		50	0	20.58	20.54	20.74	21.70
	64QAM	1	0	20.76	20.82	20.46	21.70
		1	25	20.81	20.80	20.78	21.70
		1	49	20.47	20.78	20.72	21.70
		25	0	20.62	20.60	20.58	21.70
		25	13	20.46	20.59	20.78	21.70
		25	25	20.49	20.61	20.54	21.70
		50	0	20.52	20.58	20.67	21.70

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LTE Band 7 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	16.24	15.97	16.05	17.20
		1	13	16.24	16.08	16.16	17.20
		1	24	16.18	16.07	16.06	17.20
		12	0	16.31	16.11	16.19	17.20
		12	6	16.25	16.18	16.19	17.20
		12	13	16.28	16.18	16.26	17.20
		25	0	16.26	16.29	16.23	17.20
	16QAM	1	0	16.32	16.53	16.36	17.20
		1	13	16.39	16.26	16.37	17.20
		1	24	16.35	16.32	16.72	17.20
		12	0	16.36	16.18	16.24	17.20
		12	6	16.35	16.27	16.22	17.20
		12	13	16.40	16.17	16.32	17.20
		25	0	16.22	16.23	16.30	17.20
	64QAM	1	0	16.33	16.58	16.35	17.20
		1	13	16.37	16.28	16.40	17.20
		1	24	16.40	16.29	16.73	17.20
		12	0	16.41	16.20	16.27	17.20
		12	6	16.33	16.22	16.27	17.20
		12	13	16.43	16.14	16.37	17.20
		25	0	16.21	16.25	16.35	17.20
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	16.17	16.00	16.02	17.20
		1	25	16.11	15.99	16.08	17.20
		1	49	16.05	16.07	16.16	17.20
		25	0	16.35	16.16	16.20	17.20
		25	13	16.30	16.22	16.34	17.20
		25	25	16.35	16.24	16.31	17.20
		50	0	16.36	16.23	16.26	17.20
	16QAM	1	0	16.72	16.61	16.71	17.20
		1	25	16.78	16.61	16.49	17.20
		1	49	16.76	16.72	16.60	17.20
		25	0	16.35	16.27	16.28	17.20
		25	13	16.34	16.24	16.38	17.20
		25	25	16.39	16.26	16.34	17.20
		50	0	16.38	16.30	16.26	17.20
	64QAM	1	0	16.67	16.62	16.71	17.20
		1	25	16.81	16.58	16.50	17.20
		1	49	16.72	16.76	16.56	17.20
		25	0	16.30	16.32	16.25	17.20
		25	13	16.32	16.19	16.40	17.20
		25	25	16.44	16.23	16.38	17.20
		50	0	16.36	16.25	16.23	17.20

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	16.33	16.24	16.33	17.20
		1	38	16.43	16.30	16.51	17.20
		1	74	16.46	16.42	16.59	17.20
		36	0	16.48	16.41	16.41	17.20
		36	18	16.56	16.48	16.46	17.20
		36	39	16.58	16.49	16.62	17.20
		75	0	16.47	16.40	16.46	17.20
	16QAM	1	0	16.67	16.50	16.59	17.20
		1	38	16.87	16.51	16.54	17.20
		1	74	16.81	16.35	16.46	17.20
		36	0	16.58	16.41	16.41	17.20
		36	18	16.58	16.55	16.47	17.20
		36	39	16.63	16.52	16.56	17.20
		75	0	16.59	16.49	16.56	17.20
	64QAM	1	0	16.67	16.46	16.58	17.20
		1	38	16.85	16.54	16.51	17.20
		1	74	16.77	16.35	16.45	17.20
		36	0	16.56	16.43	16.46	17.20
		36	18	16.55	16.53	16.49	17.20
		36	39	16.63	16.55	16.53	17.20
		75	0	16.59	16.52	16.53	17.20
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	16.22	16.36	16.39	17.20
		1	50	16.25	16.45	16.34	17.20
		1	99	16.39	16.38	16.44	17.20
		50	0	16.42	16.36	16.42	17.20
		50	25	16.48	16.57	16.49	17.20
		50	50	16.53	16.43	16.56	17.20
		100	0	16.56	16.53	16.50	17.20
	16QAM	1	0	16.52	16.70	16.89	17.20
		1	50	16.41	16.41	16.88	17.20
		1	99	16.68	16.83	16.87	17.20
		50	0	16.41	16.41	16.43	17.20
		50	25	16.56	16.46	16.52	17.20
		50	50	16.49	16.53	16.61	17.20
		100	0	16.46	16.41	16.52	17.20
	64QAM	1	0	16.48	16.67	16.88	17.20
		1	50	16.36	16.43	16.87	17.20
		1	99	16.72	16.84	16.85	17.20
		50	0	16.41	16.41	16.45	17.20
		50	25	16.56	16.47	16.55	17.20
		50	50	16.46	16.57	16.60	17.20
		100	0	16.46	16.43	16.50	17.20

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LTE Band 7 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	21.08	20.96	21.03	22.10
		1	13	21.03	21.06	21.04	22.10
		1	24	21.10	21.04	21.02	22.10
		12	0	21.09	20.88	21.09	22.10
		12	6	21.06	21.01	21.03	22.10
		12	13	21.11	20.98	21.11	22.10
		25	0	21.07	20.92	20.99	22.10
	16QAM	1	0	21.20	20.85	21.44	22.10
		1	13	21.13	21.44	21.26	22.10
		1	24	20.94	21.41	20.99	22.10
		12	0	20.05	19.92	19.98	21.10
		12	6	20.02	20.03	19.91	21.10
		12	13	20.08	20.03	20.01	21.10
		25	0	20.13	19.98	19.88	21.10
	64QAM	1	0	20.23	19.85	20.47	21.10
		1	13	20.12	20.47	20.26	21.10
		1	24	20.00	20.47	20.01	21.10
		12	0	19.09	18.90	18.94	20.10
		12	6	19.04	19.06	18.88	20.10
		12	13	19.13	19.08	19.05	20.10
		25	0	19.10	18.99	18.94	20.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	21.25	20.92	21.06	22.10
		1	25	20.84	20.94	20.80	22.10
		1	49	21.09	20.84	20.88	22.10
		25	0	21.07	20.87	20.98	22.10
		25	13	21.16	21.04	21.15	22.10
		25	25	21.09	20.98	21.06	22.10
		50	0	21.10	20.92	21.10	22.10
	16QAM	1	0	21.48	21.21	21.14	22.10
		1	25	21.07	21.14	21.52	22.10
		1	49	21.16	21.49	21.55	22.10
		25	0	20.08	19.98	19.94	21.10
		25	13	20.04	20.01	19.96	21.10
		25	25	20.10	20.11	20.08	21.10
		50	0	20.03	20.04	20.06	21.10
	64QAM	1	0	20.46	20.26	20.17	21.10
		1	25	20.09	20.19	20.51	21.10
		1	49	20.19	20.50	20.58	21.10
		25	0	19.05	18.99	18.93	20.10
		25	13	19.03	18.97	19.00	20.10
		25	25	19.16	19.17	19.04	20.10
		50	0	18.99	19.08	19.06	20.10

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	21.17	21.07	21.14	22.10
		1	38	21.25	21.26	21.28	22.10
		1	74	21.26	21.29	21.42	22.10
		36	0	21.26	21.18	21.20	22.10
		36	18	21.34	21.29	21.21	22.10
		36	39	21.36	21.27	21.38	22.10
		75	0	21.32	21.27	21.15	22.10
	16QAM	1	0	21.56	21.53	21.27	22.10
		1	38	21.27	21.13	21.39	22.10
		1	74	21.32	21.47	21.56	22.10
		36	0	20.38	20.60	20.17	21.10
		36	18	20.35	20.30	20.24	21.10
		36	39	20.36	20.27	20.38	21.10
		75	0	20.40	20.26	20.14	21.10
	64QAM	1	0	20.62	20.52	20.29	21.10
		1	38	20.25	20.13	20.37	21.10
		1	74	20.35	20.79	20.79	21.10
		36	0	19.41	19.02	19.16	20.10
		36	18	19.34	19.34	19.27	20.10
		36	39	19.40	19.33	19.43	20.10
		75	0	19.36	19.23	19.10	20.10

Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	21.20	21.18	21.14	22.10
		1	50	21.40	21.44	21.14	22.10
		1	99	21.38	21.22	21.43	22.10
		50	0	21.23	21.21	21.23	22.10
		50	25	21.33	21.24	21.39	22.10
		50	50	21.33	21.33	21.38	22.10
		100	0	21.35	21.31	21.36	22.10
	16QAM	1	0	21.34	21.51	21.57	22.10
		1	50	21.51	21.19	21.28	22.10
		1	99	21.33	21.25	21.56	22.10
		50	0	20.20	20.14	20.20	21.10
		50	25	20.37	20.30	20.40	21.10
		50	50	20.37	20.36	20.40	21.10
		100	0	20.29	20.25	20.27	21.10
	64QAM	1	0	20.32	20.62	20.31	21.10
		1	50	20.51	20.15	20.26	21.10
		1	99	20.33	20.30	20.57	21.10
		50	0	19.24	19.19	19.25	20.10
		50	25	19.42	19.36	19.42	20.10
		50	50	19.42	19.32	19.42	20.10
		100	0	19.26	19.27	19.28	20.10

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LTE Band 7 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	14.65	14.44	14.61	15.70
		1	13	14.69	14.68	14.69	15.70
		1	24	14.66	14.62	14.59	15.70
		12	0	14.78	14.62	14.76	15.70
		12	6	14.78	14.68	14.67	15.70
		12	13	14.74	14.68	14.77	15.70
		25	0	14.82	14.70	14.72	15.70
	16QAM	1	0	15.23	14.88	15.26	15.70
		1	13	15.15	15.14	14.98	15.70
		1	24	14.85	14.52	15.05	15.70
		12	0	14.85	14.59	14.69	15.70
		12	6	14.83	14.67	14.77	15.70
		12	13	14.68	14.73	14.77	15.70
		25	0	14.81	14.71	14.65	15.70
	64QAM	1	0	15.15	14.84	14.61	15.70
		1	13	14.99	15.08	14.69	15.70
		1	24	14.96	14.52	14.39	15.70
		12	0	15.28	14.32	14.26	15.70
		12	6	14.98	14.38	15.17	15.70
		12	13	14.64	15.18	15.27	15.70
		25	0	14.62	14.30	14.62	15.70
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	14.44	14.62	14.56	15.70
		1	25	14.58	14.57	14.54	15.70
		1	49	14.61	14.64	14.55	15.70
		25	0	14.76	14.61	14.74	15.70
		25	13	14.85	14.75	14.79	15.70
		25	25	14.83	14.79	14.82	15.70
		50	0	14.79	14.71	14.84	15.70
	16QAM	1	0	14.71	15.00	15.21	15.70
		1	25	15.22	14.56	14.75	15.70
		1	49	15.15	14.65	14.82	15.70
		25	0	14.78	14.63	14.65	15.70
		25	13	14.89	14.78	14.74	15.70
		25	25	14.85	14.80	14.74	15.70
		50	0	14.74	14.66	14.77	15.70
	64QAM	1	0	14.64	14.92	14.86	15.70
		1	25	14.68	14.47	14.84	15.70
		1	49	14.11	14.34	14.45	15.70
		25	0	14.66	14.11	14.94	15.70
		25	13	15.05	14.55	15.29	15.70
		25	25	14.33	14.39	15.32	15.70
		50	0	14.69	14.91	14.74	15.70

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	14.89	14.77	14.78	15.70
		1	38	14.84	14.90	14.94	15.70
		1	74	15.04	14.79	15.01	15.70
		36	0	15.06	14.90	14.93	15.70
		36	18	15.11	14.95	15.03	15.70
		36	39	15.15	15.05	15.08	15.70
		75	0	15.03	14.98	15.04	15.70
	16QAM	1	0	15.37	14.74	14.91	15.70
		1	38	15.04	14.98	15.21	15.70
		1	74	15.31	15.42	15.22	15.70
		36	0	15.00	14.88	15.00	15.70
		36	18	15.00	14.98	14.95	15.70
		36	39	15.06	14.99	15.13	15.70
		75	0	15.11	15.00	14.92	15.70
	64QAM	1	0	15.09	14.57	15.28	15.70
		1	38	14.64	15.20	15.24	15.70
		1	74	15.42	15.29	14.51	15.70
		36	0	15.40	14.70	15.03	15.70
		36	18	15.31	14.45	14.93	15.70
		36	39	15.25	14.85	14.58	15.70
		75	0	15.43	14.88	15.42	15.70

Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	14.81	14.67	14.75	15.70
		1	50	14.87	14.71	15.00	15.70
		1	99	14.88	14.98	14.93	15.70
		50	0	14.93	14.95	14.88	15.70
		50	25	15.08	15.02	15.05	15.70
		50	50	15.04	15.03	15.14	15.70
		100	0	15.14	14.98	15.13	15.70
	16QAM	1	0	15.43	14.64	15.44	15.70
		1	50	14.89	14.97	15.43	15.70
		1	99	15.18	15.31	14.97	15.70
		50	0	14.99	14.97	15.00	15.70
		50	25	15.07	14.95	15.07	15.70
		50	50	15.07	15.05	15.11	15.70
		100	0	15.02	14.94	15.04	15.70
	64QAM	1	0	14.41	14.47	14.55	15.70
		1	50	14.57	14.61	15.30	15.70
		1	99	14.58	14.68	15.03	15.70
		50	0	14.93	14.45	14.98	15.70
		50	25	15.18	14.82	15.40	15.70
		50	50	14.84	14.93	15.39	15.70
		100	0	15.24	15.38	14.63	15.70

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LTE Band 7 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	19.04	18.85	18.94	20.10
		1	13	19.13	18.98	18.99	20.10
		1	24	19.04	19.03	19.13	20.10
		12	0	19.17	19.05	19.11	20.10
		12	6	19.20	19.09	19.14	20.10
		12	13	19.14	19.08	19.13	20.10
		25	0	19.17	19.12	19.16	20.10
	16QAM	1	0	19.36	18.92	19.59	20.10
		1	13	19.62	19.23	19.59	20.10
		1	24	19.61	19.51	19.47	20.10
		12	0	19.08	18.93	19.03	20.10
		12	6	19.18	19.03	19.11	20.10
		12	13	19.19	19.07	19.13	20.10
		25	0	19.13	19.11	19.12	20.10
	64QAM	1	0	18.99	18.88	18.97	20.10
		1	13	19.18	18.97	18.95	20.10
		1	24	19.08	18.99	19.09	20.10
		12	0	19.18	19.00	19.11	20.10
		12	6	19.21	19.04	19.17	20.10
		12	13	19.11	19.11	19.11	20.10
		25	0	19.21	19.17	19.17	20.10
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	19.04	18.91	18.92	20.10
		1	25	18.90	18.90	18.88	20.10
		1	49	19.02	18.95	18.87	20.10
		25	0	19.10	18.98	19.10	20.10
		25	13	19.21	19.21	19.14	20.10
		25	25	19.23	19.13	19.19	20.10
		50	0	19.24	19.08	19.15	20.10
	16QAM	1	0	19.32	19.20	19.28	20.10
		1	25	19.31	19.44	19.31	20.10
		1	49	19.32	19.48	19.28	20.10
		25	0	19.15	18.86	19.07	20.10
		25	13	19.21	19.13	19.15	20.10
		25	25	19.20	19.04	19.32	20.10
		50	0	19.10	19.14	19.20	20.10
	64QAM	1	0	18.99	18.86	18.88	20.10
		1	25	18.86	18.92	18.89	20.10
		1	49	19.06	18.96	18.82	20.10
		25	0	19.09	19.00	19.14	20.10
		25	13	19.16	19.17	19.17	20.10
		25	25	19.24	19.17	19.24	20.10
		50	0	19.28	19.12	19.15	20.10

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	19.25	19.15	19.24	20.10
		1	38	19.34	19.21	19.26	20.10
		1	74	19.38	19.32	19.38	20.10
		36	0	19.43	19.23	19.30	20.10
		36	18	19.51	19.40	19.36	20.10
		36	39	19.48	19.36	19.47	20.10
		75	0	19.40	19.31	19.27	20.10
	16QAM	1	0	19.58	19.62	19.66	20.10
		1	38	19.57	19.64	19.49	20.10
		1	74	19.45	19.65	19.33	20.10
		36	0	19.40	19.28	19.37	20.10
		36	18	19.39	19.42	19.34	20.10
		36	39	19.41	19.31	19.32	20.10
		75	0	19.43	19.33	19.38	20.10
	64QAM	1	0	19.30	19.13	19.19	20.10
		1	38	19.32	19.24	19.25	20.10
		1	74	19.35	19.36	19.42	20.10
		36	0	19.45	19.20	19.35	20.10
		36	18	19.51	19.43	19.33	20.10
		36	39	19.48	19.38	19.44	20.10
		75	0	19.43	19.36	19.31	20.10

Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	19.34	19.12	19.26	20.10
		1	50	19.24	19.41	19.21	20.10
		1	99	19.40	19.21	19.29	20.10
		50	0	19.30	19.19	19.31	20.10
		50	25	19.46	19.35	19.47	20.10
		50	50	19.44	19.27	19.43	20.10
		100	0	19.47	19.38	19.52	20.10
	16QAM	1	0	19.16	19.11	19.68	20.10
		1	50	19.66	19.14	19.41	20.10
		1	99	19.42	19.55	19.67	20.10
		50	0	19.28	19.21	19.28	20.10
		50	25	19.47	19.33	19.41	20.10
		50	50	19.48	19.42	19.54	20.10
		100	0	19.38	19.29	19.32	20.10
	64QAM	1	0	19.31	19.10	19.22	20.10
		1	50	19.26	19.36	19.19	20.10
		1	99	19.39	19.23	19.29	20.10
		50	0	19.32	19.18	19.36	20.10
		50	25	19.42	19.39	19.43	20.10
		50	50	19.43	19.28	19.47	20.10
		100	0	19.51	19.38	19.49	20.10

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LTE Band 12 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	23.40	23.51	23.46	24.40
		1	2	23.54	23.65	23.62	24.40
		1	5	23.47	23.43	23.50	24.40
		3	0	23.55	23.49	23.51	24.40
		3	2	23.58	23.55	23.56	24.40
		3	3	23.52	23.56	23.54	24.40
		6	0	22.65	22.58	22.57	23.40
	16QAM	1	0	23.36	22.77	22.89	23.40
		1	2	22.93	22.62	22.73	23.40
		1	5	23.00	23.30	23.18	23.40
		3	0	22.55	22.49	22.41	23.40
		3	2	22.58	22.63	22.75	23.40
		3	3	22.36	22.72	22.49	23.40
		6	0	21.80	21.62	21.71	22.40
	64QAM	1	0	22.22	21.79	21.90	22.40
		1	2	21.93	21.66	21.77	22.40
		1	5	21.99	22.30	22.21	22.40
		3	0	21.56	21.50	21.40	22.40
		3	2	21.57	21.61	21.81	22.40
		3	3	21.39	21.75	21.51	22.40
		6	0	20.85	20.64	20.73	21.40
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	23.64	23.66	23.62	24.40
		1	7	23.65	23.55	23.51	24.40
		1	14	23.57	23.57	23.50	24.40
		8	0	22.72	22.72	22.67	23.40
		8	4	22.72	22.75	22.61	23.40
		8	7	22.68	22.68	22.62	23.40
		15	0	22.66	22.66	22.64	23.40
	16QAM	1	0	22.81	22.98	22.88	23.40
		1	7	23.28	22.85	22.79	23.40
		1	14	22.84	23.13	22.84	23.40
		8	0	21.77	21.72	21.68	22.40
		8	4	21.79	21.79	21.65	22.40
		8	7	21.67	21.62	21.70	22.40
		15	0	21.68	21.73	21.62	22.40
	64QAM	1	0	21.79	21.98	21.93	22.40
		1	7	22.25	21.88	21.85	22.40
		1	14	21.82	22.15	21.90	22.40
		8	0	20.78	20.71	20.73	21.40
		8	4	20.84	20.81	20.67	21.40
		8	7	20.69	20.64	20.72	21.40
		15	0	20.69	20.71	20.59	21.40

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Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	23.56	23.61	23.47	24.40
		1	13	23.61	23.60	23.57	24.40
		1	24	23.62	23.47	23.49	24.40
		12	0	22.70	22.74	22.74	23.40
		12	6	22.70	22.74	22.63	23.40
		12	13	22.70	22.61	22.65	23.40
		25	0	22.73	22.73	22.68	23.40
	16QAM	1	0	22.95	23.35	22.87	23.40
		1	13	23.37	22.78	23.35	23.40
		1	24	23.32	23.37	23.28	23.40
		12	0	21.72	21.81	21.75	22.40
		12	6	21.66	21.66	21.69	22.40
		12	13	21.76	21.69	21.67	22.40
		25	0	21.69	21.66	21.80	22.40
	64QAM	1	0	21.92	22.37	21.86	22.40
		1	13	22.33	21.80	22.39	22.40
		1	24	22.35	22.33	22.28	22.40
		12	0	20.71	20.84	20.77	21.40
		12	6	20.64	20.64	20.71	21.40
		12	13	20.76	20.70	20.73	21.40
		25	0	20.72	20.64	20.77	21.40
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	23.64	23.56	23.66	24.40
		1	25	23.46	23.85	23.85	24.40
		1	49	23.65	23.57	23.38	24.40
		25	0	22.67	22.70	22.69	23.40
		25	13	22.79	22.66	22.64	23.40
		25	25	22.87	22.72	22.86	23.40
		50	0	22.77	22.65	22.65	23.40
	16QAM	1	0	23.07	22.87	22.90	23.40
		1	25	22.73	22.67	23.13	23.40
		1	49	22.75	22.47	22.66	23.40
		25	0	21.78	21.77	21.75	22.40
		25	13	21.80	21.71	21.56	22.40
		25	25	21.65	21.72	21.65	22.40
		50	0	21.79	21.72	21.60	22.40
	64QAM	1	0	21.99	21.86	21.92	22.40
		1	25	21.70	21.63	22.18	22.40
		1	49	21.76	21.49	21.71	22.40
		25	0	20.77	20.82	20.76	21.40
		25	13	20.79	20.67	20.53	21.40
		25	25	20.63	20.70	20.61	21.40
		50	0	20.80	20.68	20.56	21.40

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LTE Band 12 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	22.50	22.62	22.53	23.30
		1	2	22.77	22.61	22.63	23.30
		1	5	22.68	22.57	22.61	23.30
		3	0	22.70	22.67	22.65	23.30
		3	2	22.74	22.63	22.67	23.30
		3	3	22.64	22.71	22.65	23.30
		6	0	22.60	22.52	22.62	23.30
	16QAM	1	0	22.66	22.80	22.76	23.30
		1	2	22.69	22.80	22.67	23.30
		1	5	22.64	22.64	22.95	23.30
		3	0	22.67	22.48	22.61	23.30
		3	2	22.69	22.55	22.63	23.30
		3	3	22.64	22.54	22.62	23.30
		6	0	21.58	21.64	21.70	22.30
	64QAM	1	0	22.03	21.63	21.80	22.30
		1	2	21.77	21.58	21.65	22.30
		1	5	21.98	22.14	22.08	22.30
		3	0	21.36	21.42	21.29	22.30
		3	2	21.52	21.59	21.81	22.30
		3	3	21.31	21.70	21.39	22.30
		6	0	20.78	20.62	20.73	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	22.72	22.77	22.77	23.30
		1	7	22.74	22.68	22.73	23.30
		1	14	22.64	22.64	22.67	23.30
		8	0	22.72	22.75	22.63	23.30
		8	4	22.72	22.76	22.59	23.30
		8	7	22.65	22.71	22.68	23.30
		15	0	22.57	22.67	22.69	23.30
	16QAM	1	0	22.78	22.76	22.67	23.30
		1	7	22.72	22.96	22.82	23.30
		1	14	22.65	22.97	22.68	23.30
		8	0	21.85	21.64	21.53	22.30
		8	4	21.68	21.76	21.60	22.30
		8	7	21.64	21.81	21.68	22.30
		15	0	21.69	21.67	21.70	22.30
	64QAM	1	0	21.69	21.85	21.77	22.30
		1	7	22.19	21.84	21.74	22.30
		1	14	21.78	21.97	21.79	22.30
		8	0	20.71	20.56	20.63	21.30
		8	4	20.83	20.64	20.56	21.30
		8	7	20.55	20.62	20.69	21.30
		15	0	20.54	20.57	20.59	21.30

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
5MHz	QPSK	1	0	22.84	22.79	22.71	23.30
		1	13	22.75	22.83	22.73	23.30
		1	24	22.62	22.71	22.74	23.30
		12	0	22.77	22.72	22.64	23.30
		12	6	22.70	22.68	22.65	23.30
		12	13	22.73	22.65	22.70	23.30
		25	0	22.68	22.70	22.69	23.30
	16QAM	1	0	22.73	22.79	22.86	23.30
		1	13	22.67	22.88	22.88	23.30
		1	24	22.90	22.94	22.68	23.30
		12	0	21.70	21.65	21.63	22.30
		12	6	21.82	21.64	21.64	22.30
		12	13	21.73	21.64	21.61	22.30
		25	0	21.68	21.69	21.68	22.30
	64QAM	1	0	21.74	22.21	21.80	22.30
		1	13	22.15	21.70	22.08	22.30
		1	24	22.03	22.18	22.19	22.30
		12	0	20.68	20.82	20.74	21.30
		12	6	20.59	20.50	20.70	21.30
		12	13	20.67	20.59	20.65	21.30
		25	0	20.60	20.62	20.75	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
10MHz	QPSK	1	0	22.60	22.67	22.92	23.30
		1	25	22.59	22.68	22.59	23.30
		1	49	22.69	22.57	22.69	23.30
		25	0	22.71	22.72	22.70	23.30
		25	13	22.76	22.74	22.63	23.30
		25	25	22.75	22.66	22.64	23.30
		50	0	22.83	22.67	22.83	23.30
	16QAM	1	0	22.98	22.97	22.50	23.30
		1	25	22.43	22.80	22.87	23.30
		1	49	22.11	22.84	22.97	23.30
		25	0	21.66	21.85	21.73	22.30
		25	13	21.72	21.67	21.65	22.30
		25	25	21.77	21.78	21.70	22.30
		50	0	21.77	21.68	21.77	22.30
	64QAM	1	0	21.96	22.13	22.08	22.30
		1	25	21.98	21.97	21.99	22.30
		1	49	21.94	21.93	21.84	22.30
		25	0	20.84	20.80	20.77	21.30
		25	13	20.94	20.81	20.85	21.30
		25	25	20.75	20.79	20.87	21.30
		50	0	20.80	20.74	20.66	21.30

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LTE Band 12 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	21.22	21.37	21.44	22.10
		1	2	21.50	21.48	21.51	22.10
		1	5	21.43	21.42	21.44	22.10
		3	0	21.46	21.45	21.41	22.10
		3	2	21.51	21.55	21.50	22.10
		3	3	21.43	21.43	21.49	22.10
		6	0	21.53	21.45	21.56	22.10
	16QAM	1	0	21.66	21.65	21.77	22.10
		1	2	21.69	21.67	21.79	22.10
		1	5	21.61	21.64	21.47	22.10
		3	0	21.62	21.41	21.58	22.10
		3	2	21.58	21.59	21.46	22.10
		3	3	21.59	21.65	21.61	22.10
		6	0	21.56	21.54	21.72	22.10
	64QAM	1	0	21.49	21.45	21.70	22.10
		1	2	21.54	21.67	21.80	22.10
		1	5	21.58	21.58	21.47	22.10
		3	0	21.50	21.39	21.49	22.10
		3	2	21.42	21.45	21.40	22.10
		3	3	21.40	21.46	21.52	22.10
		6	0	20.69	20.68	20.52	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	21.55	21.52	21.53	22.10
		1	7	21.37	21.43	21.45	22.10
		1	14	21.47	21.40	21.51	22.10
		8	0	21.57	21.60	21.58	22.10
		8	4	21.54	21.71	21.56	22.10
		8	7	21.50	21.53	21.65	22.10
		15	0	21.63	21.57	21.56	22.10
	16QAM	1	0	21.80	21.39	21.25	22.10
		1	7	21.21	21.77	21.65	22.10
		1	14	21.65	21.65	21.57	22.10
		8	0	21.57	21.60	21.70	22.10
		8	4	21.65	21.66	21.55	22.10
		8	7	21.62	21.54	21.71	22.10
		15	0	21.58	21.69	21.52	22.10
	64QAM	1	0	21.61	21.56	21.79	22.10
		1	7	21.71	21.59	21.53	22.10
		1	14	21.54	21.43	21.37	22.10
		8	0	20.65	20.48	20.63	21.30
		8	4	20.66	20.59	20.49	21.30
		8	7	20.65	20.74	20.56	21.30
		15	0	20.51	20.60	20.49	21.30

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Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	21.62	21.44	21.41	22.10
		1	13	21.58	21.53	21.51	22.10
		1	24	21.55	21.47	21.49	22.10
		12	0	21.59	21.65	21.62	22.10
		12	6	21.67	21.58	21.56	22.10
		12	13	21.58	21.63	21.60	22.10
		25	0	21.62	21.52	21.64	22.10
	16QAM	1	0	21.73	21.69	21.79	22.10
		1	13	21.80	21.75	21.78	22.10
		1	24	21.30	21.38	21.33	22.10
		12	0	21.69	21.71	21.68	22.10
		12	6	21.75	21.61	21.62	22.10
		12	13	21.57	21.59	21.56	22.10
		25	0	21.61	21.66	21.65	22.10
	64QAM	1	0	21.53	21.60	21.72	22.10
		1	13	21.77	21.60	21.59	22.10
		1	24	21.80	21.47	21.56	22.10
		12	0	20.76	20.73	20.50	21.30
		12	6	20.88	20.77	20.55	21.30
		12	13	20.65	20.70	20.65	21.30
		25	0	20.60	20.67	20.64	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	21.47	21.54	21.43	22.10
		1	25	21.35	21.65	21.33	22.10
		1	49	21.44	21.41	21.35	22.10
		25	0	21.63	21.61	21.56	22.10
		25	13	21.64	21.57	21.62	22.10
		25	25	21.52	21.62	21.60	22.10
		50	0	21.65	21.53	21.51	22.10
	16QAM	1	0	21.81	21.80	21.78	22.10
		1	25	21.78	21.52	21.68	22.10
		1	49	21.57	21.75	21.47	22.10
		25	0	21.45	21.53	21.68	22.10
		25	13	21.63	21.58	21.51	22.10
		25	25	21.62	21.68	21.68	22.10
		50	0	21.63	21.61	21.52	22.10
	64QAM	1	0	21.71	21.65	21.46	22.10
		1	25	21.79	21.77	21.79	22.10
		1	49	21.80	21.57	21.63	22.10
		25	0	20.85	20.82	20.70	21.30
		25	13	20.94	20.83	20.68	21.30
		25	25	20.80	20.79	20.84	21.30
		50	0	20.73	20.68	20.71	21.30

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LTE Band 12 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	20.84	20.86	20.91	21.50
		1	2	20.88	20.92	20.85	21.50
		1	5	20.82	20.77	20.79	21.50
		3	0	20.90	20.90	20.84	21.50
		3	2	20.84	20.89	20.82	21.50
		3	3	20.76	20.84	20.79	21.50
		6	0	20.87	20.89	20.89	21.50
	16QAM	1	0	20.87	20.90	20.80	21.50
		1	2	21.06	21.05	21.18	21.50
		1	5	21.06	21.14	21.10	21.50
		3	0	20.86	20.92	20.86	21.50
		3	2	21.01	20.96	20.99	21.50
		3	3	20.86	20.88	20.90	21.50
		6	0	20.91	20.94	20.97	21.50
	64QAM	1	0	20.70	20.87	20.69	21.50
		1	2	20.87	20.88	21.02	21.50
		1	5	20.94	21.01	21.00	21.50
		3	0	20.85	20.81	20.72	21.50
		3	2	21.00	20.83	20.86	21.50
		3	3	20.69	20.68	20.85	21.50
		6	0	20.67	20.77	20.77	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	20.90	21.07	20.94	21.50
		1	7	20.94	20.99	20.85	21.50
		1	14	20.90	20.94	20.90	21.50
		8	0	21.02	21.08	20.98	21.50
		8	4	21.05	21.06	20.92	21.50
		8	7	21.09	20.99	20.99	21.50
		15	0	21.06	20.97	20.94	21.50
	16QAM	1	0	21.12	21.09	21.11	21.50
		1	7	21.33	21.07	21.10	21.50
		1	14	21.21	21.05	21.31	21.50
		8	0	21.06	21.02	21.10	21.50
		8	4	21.01	21.07	20.97	21.50
		8	7	21.06	21.13	21.09	21.50
		15	0	21.10	21.06	21.07	21.50
	64QAM	1	0	21.28	21.06	21.25	21.50
		1	7	21.09	21.16	21.10	21.50
		1	14	20.47	20.95	21.26	21.50
		8	0	20.42	20.61	20.46	21.50
		8	4	20.72	20.60	20.67	21.50
		8	7	20.56	20.74	20.51	21.50
		15	0	20.51	20.61	20.61	21.50

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Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	21.03	21.00	20.95	21.50
		1	13	21.09	20.85	20.95	21.50
		1	24	20.96	20.95	20.93	21.50
		12	0	20.98	21.01	20.98	21.50
		12	6	21.03	21.03	20.96	21.50
		12	13	21.01	20.98	20.96	21.50
		25	0	21.01	20.96	20.97	21.50
	16QAM	1	0	20.76	21.03	21.09	21.50
		1	13	21.11	21.16	21.24	21.50
		1	24	21.31	21.17	21.00	21.50
		12	0	21.01	21.06	21.05	21.50
		12	6	21.13	20.95	21.06	21.50
		12	13	21.08	21.10	21.07	21.50
		25	0	20.99	21.02	20.95	21.50
	64QAM	1	0	21.30	21.15	21.32	21.50
		1	13	21.09	21.22	21.20	21.50
		1	24	20.61	21.01	21.10	21.50
		12	0	20.49	20.63	20.65	21.50
		12	6	20.70	20.85	20.57	21.50
		12	13	20.79	20.86	20.68	21.50
		25	0	20.55	20.51	20.63	21.50

Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	20.90	21.04	20.93	21.50
		1	25	20.72	21.04	20.91	21.50
		1	49	20.83	20.97	20.68	21.50
		25	0	21.04	21.09	20.95	21.50
		25	13	20.99	20.95	20.96	21.50
		25	25	21.07	21.10	21.04	21.50
		50	0	21.08	21.04	20.97	21.50
	16QAM	1	0	21.34	20.91	21.33	21.50
		1	25	20.92	21.18	21.30	21.50
		1	49	21.10	21.03	21.33	21.50
		25	0	21.08	21.14	21.05	21.50
		25	13	21.17	20.98	20.95	21.50
		25	25	20.93	21.12	21.04	21.50
		50	0	20.98	20.95	21.04	21.50
	64QAM	1	0	21.33	21.15	21.33	21.50
		1	25	21.27	21.31	21.30	21.50
		1	49	20.74	21.15	21.26	21.50
		25	0	20.68	20.76	20.73	21.50
		25	13	20.90	20.86	20.75	21.50
		25	25	20.81	20.87	20.79	21.50
		50	0	20.73	20.69	20.79	21.50

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LTE Band 17 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	23.53	23.48	23.48	24.40
		1	13	23.60	23.62	23.64	24.40
		1	24	23.56	23.57	23.61	24.40
		12	0	22.59	22.67	22.64	23.40
		12	6	22.66	22.69	22.68	23.40
		12	13	22.64	22.69	22.74	23.40
		25	0	22.69	22.73	22.66	23.40
	16QAM	1	0	22.68	22.95	22.90	23.40
		1	13	22.83	22.91	22.84	23.40
		1	24	22.66	23.12	23.12	23.40
		12	0	21.69	21.75	21.62	22.40
		12	6	21.65	21.74	21.65	22.40
		12	13	21.70	21.75	21.77	22.40
		25	0	21.68	21.77	21.68	22.40
	64QAM	1	0	21.69	21.95	21.86	22.40
		1	13	21.87	21.97	21.90	22.40
		1	24	21.66	22.07	22.08	22.40
		12	0	20.75	20.78	20.59	21.40
		12	6	20.71	20.80	20.69	21.40
		12	13	20.74	20.80	20.75	21.40
		25	0	20.65	20.75	20.68	21.40
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	23.62	23.47	23.67	24.40
		1	25	23.66	23.67	23.66	24.40
		1	49	23.67	23.68	23.60	24.40
		25	0	22.66	22.70	22.66	23.40
		25	13	22.67	22.66	22.73	23.40
		25	25	22.70	22.75	22.75	23.40
		50	0	22.75	22.74	22.68	23.40
	16QAM	1	0	23.39	22.78	22.54	23.40
		1	25	23.04	23.16	23.11	23.40
		1	49	22.83	22.65	23.03	23.40
		25	0	21.61	21.68	21.56	22.40
		25	13	21.72	21.78	21.70	22.40
		25	25	21.76	21.74	21.71	22.40
		50	0	21.61	21.73	21.68	22.40
	64QAM	1	0	22.04	21.79	21.58	22.40
		1	25	22.07	22.22	22.14	22.40
		1	49	21.85	21.66	22.05	22.40
		25	0	20.58	20.74	20.61	21.40
		25	13	20.74	20.76	20.73	21.40
		25	25	20.80	20.71	20.71	21.40
		50	0	20.58	20.76	20.70	21.40

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LTE Band 17 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	22.27	22.43	22.31	23.30
		1	13	22.50	22.45	22.52	23.30
		1	24	22.41	22.44	22.49	23.30
		12	0	22.48	22.54	22.48	23.30
		12	6	22.54	22.44	22.51	23.30
		12	13	22.48	22.51	22.43	23.30
		25	0	22.48	22.48	22.50	23.30
	16QAM	1	0	22.86	22.20	22.45	23.30
		1	13	22.70	22.84	22.79	23.30
		1	24	22.62	22.68	22.59	23.30
		12	0	21.62	21.79	21.71	22.30
		12	6	21.69	21.69	21.63	22.30
		12	13	21.72	21.76	21.68	22.30
		25	0	21.79	21.68	21.75	22.30
	64QAM	1	0	21.29	21.96	21.89	22.30
		1	13	22.15	21.80	21.91	22.30
		1	24	21.77	21.82	21.47	22.30
		12	0	20.79	20.73	20.75	21.30
		12	6	20.91	20.74	20.77	21.30
		12	13	20.76	20.62	20.83	21.30
		25	0	20.50	20.69	20.60	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	22.41	22.44	22.54	23.30
		1	25	22.20	22.49	22.52	23.30
		1	49	22.30	22.41	22.35	23.30
		25	0	22.48	22.50	22.46	23.30
		25	13	22.50	22.47	22.46	23.30
		25	25	22.48	22.52	22.54	23.30
		50	0	22.69	22.48	22.38	23.30
	16QAM	1	0	22.99	22.86	23.23	23.30
		1	25	23.02	22.77	22.68	23.30
		1	49	22.82	23.05	22.77	23.30
		25	0	21.68	21.63	21.74	22.30
		25	13	21.70	21.71	21.77	22.30
		25	25	21.73	21.60	21.75	22.30
		50	0	21.75	21.64	21.66	22.30
	64QAM	1	0	21.31	22.05	22.02	22.30
		1	25	22.18	21.88	21.93	22.30
		1	49	21.83	21.85	21.63	22.30
		25	0	20.82	20.73	20.78	21.30
		25	13	20.94	20.86	20.80	21.30
		25	25	20.95	20.78	20.85	21.30
		50	0	20.67	20.77	20.78	21.30

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LTE Band 17 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	20.95	21.08	21.15	22.10
		1	13	21.19	21.13	21.17	22.10
		1	24	20.99	21.21	21.06	22.10
		12	0	21.18	21.07	21.18	22.10
		12	6	21.23	21.27	21.22	22.10
		12	13	21.22	21.26	21.22	22.10
		25	0	21.16	21.20	21.17	22.10
	16QAM	1	0	21.26	21.29	21.02	22.10
		1	13	21.29	21.10	21.75	22.10
		1	24	21.18	21.35	21.42	22.10
		12	0	21.16	21.23	21.23	22.10
		12	6	21.19	21.25	21.16	22.10
		12	13	21.19	21.21	21.28	22.10
		25	0	21.28	21.16	21.25	22.10
	64QAM	1	0	21.32	21.47	21.20	22.10
		1	13	21.14	21.53	21.07	22.10
		1	24	21.20	21.07	21.14	22.10
		12	0	20.56	20.64	20.59	21.30
		12	6	20.85	20.77	20.77	21.30
		12	13	20.68	20.74	20.79	21.30
		25	0	20.58	20.56	20.63	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	21.36	21.10	21.15	22.10
		1	25	21.22	21.13	21.15	22.10
		1	49	21.49	20.97	21.02	22.10
		25	0	21.05	21.15	21.16	22.10
		25	13	21.20	21.27	21.08	22.10
		25	25	21.24	21.25	21.29	22.10
		50	0	21.22	21.09	21.18	22.10
	16QAM	1	0	21.58	21.22	20.93	22.10
		1	25	21.94	21.12	21.25	22.10
		1	49	21.15	21.44	21.25	22.10
		25	0	21.23	21.11	21.21	22.10
		25	13	21.20	21.19	21.21	22.10
		25	25	21.25	21.25	21.15	22.10
		50	0	21.07	21.21	21.11	22.10
	64QAM	1	0	21.42	21.66	21.28	22.10
		1	25	21.17	21.60	21.22	22.10
		1	49	21.36	21.16	21.27	22.10
		25	0	20.75	20.71	20.65	21.30
		25	13	20.93	20.84	20.89	21.30
		25	25	20.84	20.94	20.82	21.30
		50	0	20.74	20.75	20.68	21.30

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LTE Band 17 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	20.46	20.60	20.72	21.50
		1	13	20.53	20.75	20.71	21.50
		1	24	20.67	20.76	20.69	21.50
		12	0	20.63	20.72	20.73	21.50
		12	6	20.69	20.58	20.61	21.50
		12	13	20.67	20.70	20.71	21.50
		25	0	20.74	20.65	20.71	21.50
	16QAM	1	0	20.70	20.95	20.88	21.50
		1	13	20.68	21.05	20.72	21.50
		1	24	20.52	20.79	20.83	21.50
		12	0	20.69	20.71	20.68	21.50
		12	6	20.70	20.64	20.80	21.50
		12	13	20.71	20.73	20.75	21.50
		25	0	20.65	20.60	20.70	21.50
	64QAM	1	0	20.82	20.41	20.68	21.50
		1	13	20.65	20.50	20.66	21.50
		1	24	21.05	20.43	20.64	21.50
		12	0	20.67	20.59	20.70	21.50
		12	6	20.89	20.70	20.75	21.50
		12	13	20.83	20.74	20.74	21.50
		25	0	20.57	20.64	20.57	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	20.55	20.52	20.60	21.50
		1	25	20.77	20.54	20.63	21.50
		1	49	20.44	20.59	20.67	21.50
		25	0	20.69	20.68	20.62	21.50
		25	13	20.69	20.73	20.69	21.50
		25	25	20.80	20.66	20.99	21.50
		50	0	20.72	20.64	20.64	21.50
	16QAM	1	0	20.84	20.81	20.72	21.50
		1	25	21.11	20.46	20.86	21.50
		1	49	20.76	20.89	20.67	21.50
		25	0	20.70	20.72	20.59	21.50
		25	13	20.70	20.61	20.76	21.50
		25	25	20.74	20.76	20.67	21.50
		50	0	20.74	20.57	20.69	21.50
	64QAM	1	0	20.95	20.61	20.79	21.50
		1	25	20.83	20.52	20.69	21.50
		1	49	21.10	20.59	20.76	21.50
		25	0	20.83	20.61	20.87	21.50
		25	13	20.92	20.87	20.81	21.50
		25	25	20.89	20.77	20.84	21.50
		50	0	20.67	20.71	20.68	21.50

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LTE Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	23.40	23.37	23.39	24.60
		1	2	23.48	23.42	23.42	24.60
		1	5	23.41	23.46	23.35	24.60
		3	0	23.49	23.39	23.39	24.60
		3	2	23.50	23.58	23.41	24.60
		3	3	23.46	23.54	23.43	24.60
		6	0	22.46	22.57	22.56	23.60
	16QAM	1	0	22.80	22.72	22.73	23.60
		1	2	23.16	22.62	22.84	23.60
		1	5	22.31	23.22	22.28	23.60
		3	0	22.60	22.40	22.31	23.60
		3	2	22.52	22.56	22.45	23.60
		3	3	22.51	22.56	22.44	23.60
		6	0	21.62	21.75	21.53	22.60
	64QAM	1	0	21.82	21.74	21.69	22.60
		1	2	22.16	21.64	21.84	22.60
		1	5	21.28	22.23	21.33	22.60
		3	0	21.58	21.40	21.33	22.60
		3	2	21.52	21.57	21.47	22.60
		3	3	21.56	21.54	21.45	22.60
		6	0	20.59	20.77	20.56	21.60
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	23.38	23.54	23.55	24.60
		1	7	23.49	23.39	23.42	24.60
		1	14	23.46	23.60	23.49	24.60
		8	0	22.68	22.59	22.62	23.60
		8	4	22.63	22.63	22.55	23.60
		8	7	22.62	22.62	22.61	23.60
		15	0	22.62	22.60	22.63	23.60
	16QAM	1	0	23.29	22.73	23.21	23.60
		1	7	22.91	22.83	22.87	23.60
		1	14	22.69	22.70	22.76	23.60
		8	0	21.80	21.73	21.58	22.60
		8	4	21.72	21.84	21.67	22.60
		8	7	21.62	21.59	21.54	22.60
		15	0	21.70	21.64	21.60	22.60
	64QAM	1	0	22.27	21.73	22.27	22.60
		1	7	21.89	21.83	21.83	22.60
		1	14	21.71	21.66	21.72	22.60
		8	0	20.79	20.75	20.59	21.60
		8	4	20.72	20.88	20.65	21.60
		8	7	20.58	20.65	20.50	21.60
		15	0	20.73	20.65	20.56	21.60
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	23.49	23.51	23.43	24.60
		1	13	23.66	23.56	23.59	24.60
		1	24	23.38	23.64	23.43	24.60
		12	0	22.58	22.64	22.60	23.60
		12	6	22.61	22.59	22.66	23.60
		12	13	22.55	22.59	22.54	23.60
		25	0	22.61	22.57	22.47	23.60

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	16QAM	1	0	22.88	22.84	22.74	23.60
		1	13	22.90	22.89	22.82	23.60
		1	24	22.47	22.71	22.64	23.60
		12	0	21.61	21.72	21.67	22.60
		12	6	21.66	21.65	21.53	22.60
		12	13	21.76	21.59	21.51	22.60
		25	0	21.66	21.70	21.63	22.60
	64QAM	1	0	21.88	21.82	21.72	22.60
		1	13	21.96	21.90	21.83	22.60
		1	24	21.45	21.77	21.62	22.60
		12	0	20.61	20.73	20.71	21.60
		12	6	20.67	20.70	20.59	21.60
		12	13	20.80	20.57	20.51	21.60
		25	0	20.63	20.66	20.63	21.60
Bandwidth	Modulation	RB size	RB offset	Channel 26750	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	23.71	23.63	23.48	24.60
		1	25	23.41	23.53	23.45	24.60
		1	49	23.35	23.54	23.61	24.60
		25	0	22.59	22.67	22.59	23.60
		25	13	22.65	22.67	22.55	23.60
		25	25	22.55	22.57	22.59	23.60
		50	0	22.62	22.57	22.57	23.60
	16QAM	1	0	23.30	23.22	23.08	23.60
		1	25	23.18	23.29	23.01	23.60
		1	49	22.66	22.70	22.80	23.60
		25	0	21.69	21.70	21.53	22.60
		25	13	21.46	21.64	21.52	22.60
		25	25	21.61	21.68	21.65	22.60
		50	0	21.62	21.57	21.61	22.60
	64QAM	1	0	22.34	22.27	22.10	22.60
		1	25	22.18	22.28	22.03	22.60
		1	49	21.71	21.68	21.77	22.60
		25	0	20.69	20.69	20.55	21.60
		25	13	20.46	20.60	20.57	21.60
		25	25	20.60	20.66	20.69	21.60
		50	0	20.62	20.56	20.66	21.60
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	23.72	23.68	23.75	24.60
		1	38	23.60	23.55	23.63	24.60
		1	74	23.58	23.67	23.58	24.60
		36	0	22.72	22.84	22.80	23.60
		36	18	22.74	22.76	22.83	23.60
		36	39	22.85	22.67	22.74	23.60
		75	0	22.72	22.78	22.73	23.60
	16QAM	1	0	22.56	22.80	23.16	23.60
		1	38	22.83	22.95	23.13	23.60
		1	74	22.81	22.70	22.99	23.60
		36	0	21.74	21.82	21.91	22.60
		36	18	21.82	21.77	21.74	22.60
		36	39	21.78	21.92	21.76	22.60
		75	0	21.69	21.86	21.76	22.60
	64QAM	1	0	21.62	21.85	22.16	22.60
		1	38	21.86	21.95	22.16	22.60
		1	74	21.86	21.74	21.95	22.60
		36	0	20.75	20.86	20.90	21.60
		36	18	20.81	20.76	20.72	21.60
		36	39	20.84	20.88	20.73	21.60
		75	0	20.67	20.83	20.75	21.60

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LTE Band 38 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	19.48	19.37	19.42	20.10
		1	13	19.44	19.50	19.48	20.10
		1	24	19.39	19.43	19.41	20.10
		12	0	19.52	19.50	19.48	20.10
		12	6	19.55	19.50	19.43	20.10
		12	13	19.54	19.51	19.51	20.10
		25	0	19.50	19.41	19.47	20.10
	16QAM	1	0	19.62	19.64	19.45	20.10
		1	13	19.61	19.57	19.54	20.10
		1	24	19.59	19.66	19.51	20.10
		12	0	19.60	19.42	19.39	20.10
		12	6	19.58	19.51	19.43	20.10
		12	13	19.51	19.51	19.42	20.10
		25	0	19.58	19.55	19.45	20.10
	64QAM	1	0	19.65	19.59	19.43	20.10
		1	13	19.62	19.54	19.53	20.10
		1	24	19.64	19.67	19.52	20.10
		12	0	19.57	19.46	19.42	20.10
		12	6	19.60	19.54	19.46	20.10
		12	13	19.51	19.48	19.43	20.10
		25	0	19.56	19.58	19.45	20.10
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	19.51	19.38	19.45	20.10
		1	25	19.56	19.53	19.42	20.10
		1	49	19.39	19.46	19.35	20.10
		25	0	19.61	19.56	19.43	20.10
		25	13	19.59	19.56	19.46	20.10
		25	25	19.62	19.56	19.45	20.10
		50	0	19.54	19.51	19.39	20.10
	16QAM	1	0	19.64	19.49	19.58	20.10
		1	25	19.63	19.60	19.58	20.10
		1	49	19.61	19.56	19.55	20.10
		25	0	19.60	19.51	19.43	20.10
		25	13	19.59	19.46	19.48	20.10
		25	25	19.51	19.51	19.47	20.10
		50	0	19.58	19.51	19.48	20.10
	64QAM	1	0	19.59	19.46	19.63	20.10
		1	25	19.67	19.56	19.53	20.10
		1	49	19.63	19.57	19.60	20.10
		25	0	19.62	19.50	19.41	20.10
		25	13	19.56	19.51	19.44	20.10
		25	25	19.49	19.46	19.45	20.10
		50	0	19.61	19.54	19.50	20.10

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Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	19.63	19.47	19.54	20.10
		1	38	19.53	19.50	19.50	20.10
		1	74	19.60	19.56	19.57	20.10
		36	0	19.67	19.63	19.67	20.10
		36	18	19.81	19.68	19.65	20.10
		36	39	19.73	19.66	19.71	20.10
		75	0	19.76	19.60	19.66	20.10
	16QAM	1	0	19.85	19.72	19.71	20.10
		1	38	19.70	19.73	19.74	20.10
		1	74	19.76	19.68	19.70	20.10
		36	0	19.76	19.68	19.62	20.10
		36	18	19.70	19.62	19.65	20.10
		36	39	19.77	19.65	19.65	20.10
		75	0	19.83	19.70	19.60	20.10
	64QAM	1	0	19.88	19.67	19.76	20.10
		1	38	19.67	19.72	19.75	20.10
		1	74	19.72	19.70	19.75	20.10
		36	0	19.73	19.63	19.63	20.10
		36	18	19.72	19.67	19.67	20.10
		36	39	19.72	19.64	19.62	20.10
		75	0	19.79	19.70	19.57	20.10

Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	19.65	19.65	19.79	20.10
		1	50	19.60	19.79	19.53	20.10
		1	99	19.52	19.60	19.42	20.10
		50	0	19.84	19.85	19.76	20.10
		50	25	19.74	19.69	19.74	20.10
		50	50	19.73	19.71	19.73	20.10
		100	0	19.78	19.74	19.79	20.10
	16QAM	1	0	19.89	19.71	19.65	20.10
		1	50	19.75	19.78	19.67	20.10
		1	99	19.70	19.56	19.65	20.10
		50	0	19.67	19.67	19.69	20.10
		50	25	19.77	19.75	19.74	20.10
		50	50	19.84	19.82	19.78	20.10
		100	0	19.76	19.69	19.70	20.10
	64QAM	1	0	19.71	19.67	19.60	20.10
		1	50	19.80	19.79	19.69	20.10
		1	99	19.69	19.61	19.63	20.10
		50	0	19.69	19.66	19.64	20.10
		50	25	19.73	19.75	19.73	20.10
		50	50	19.86	19.86	19.81	20.10
		100	0	19.81	19.65	19.66	20.10

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LTE Band 38 Receiver on/ WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	22.32	22.26	22.16	23.00
		1	13	22.39	22.32	22.26	23.00
		1	24	22.32	22.22	22.17	23.00
		12	0	21.39	21.36	21.24	22.00
		12	6	21.43	21.35	21.35	22.00
		12	13	21.39	21.36	21.21	22.00
		25	0	21.47	21.30	21.29	22.00
	16QAM	1	0	21.51	21.47	21.29	22.00
		1	13	21.50	21.54	21.33	22.00
		1	24	21.50	21.50	21.41	22.00
		12	0	20.39	20.27	20.17	21.00
		12	6	20.41	20.38	20.31	21.00
		12	13	20.43	20.26	20.19	21.00
		25	0	20.41	20.39	20.28	21.00
	64QAM	1	0	20.47	20.44	20.29	21.00
		1	13	20.46	20.56	20.38	21.00
		1	24	20.52	20.55	20.38	21.00
		12	0	19.35	19.30	19.21	20.00
		12	6	19.37	19.35	19.29	20.00
		12	13	19.45	19.29	19.16	20.00
		25	0	19.38	19.41	19.28	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	22.54	22.32	22.22	23.00
		1	25	22.41	22.34	22.16	23.00
		1	49	22.47	22.32	22.32	23.00
		25	0	21.39	21.28	21.46	22.00
		25	13	21.64	21.33	21.22	22.00
		25	25	21.43	21.52	21.53	22.00
		50	0	21.49	21.39	21.25	22.00
	16QAM	1	0	21.60	21.47	21.37	22.00
		1	25	21.54	21.38	21.31	22.00
		1	49	21.57	21.49	21.34	22.00
		25	0	20.52	20.26	20.29	21.00
		25	13	20.53	20.40	20.23	21.00
		25	25	20.30	20.38	20.34	21.00
		50	0	20.51	20.46	20.26	21.00
	64QAM	1	0	20.60	20.48	20.41	21.00
		1	25	20.60	20.34	20.37	21.00
		1	49	20.57	20.45	20.34	21.00
		25	0	19.53	19.32	19.32	20.00
		25	13	19.53	19.38	19.25	20.00
		25	25	19.36	19.37	19.36	20.00
		50	0	19.56	19.49	19.23	20.00

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	22.56	22.50	22.32	23.00
		1	38	22.43	22.46	22.42	23.00
		1	74	22.43	22.42	22.39	23.00
		36	0	21.56	21.58	21.54	22.00
		36	18	21.60	21.56	21.42	22.00
		36	39	21.54	21.49	21.45	22.00
		75	0	21.68	21.62	21.37	22.00
	16QAM	1	0	21.74	21.68	21.52	22.00
		1	38	21.54	21.53	21.60	22.00
		1	74	21.65	21.45	21.47	22.00
		36	0	20.61	20.56	20.46	21.00
		36	18	20.64	20.44	20.38	21.00
		36	39	20.57	20.47	20.42	21.00
		75	0	20.59	20.61	20.45	21.00
	64QAM	1	0	20.78	20.66	20.52	21.00
		1	38	20.56	20.52	20.62	21.00
		1	74	20.67	20.45	20.44	21.00
		36	0	19.66	19.53	19.52	20.00
		36	18	19.70	19.40	19.34	20.00
		36	39	19.55	19.43	19.42	20.00
		75	0	19.64	19.58	19.48	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	22.66	22.57	22.54	23.00
		1	50	22.48	22.66	22.37	23.00
		1	99	22.31	22.35	22.36	23.00
		50	0	21.65	21.66	21.52	22.00
		50	25	21.65	21.54	21.46	22.00
		50	50	21.58	21.51	21.44	22.00
		100	0	21.72	21.62	21.52	22.00
	16QAM	1	0	21.96	21.69	21.62	22.00
		1	50	21.65	21.62	21.45	22.00
		1	99	21.43	21.39	21.51	22.00
		50	0	20.68	20.65	20.54	21.00
		50	25	20.71	20.66	20.53	21.00
		50	50	20.71	20.64	20.51	21.00
		100	0	20.65	20.66	20.53	21.00
	64QAM	1	0	20.92	20.74	20.63	21.00
		1	50	20.65	20.61	20.45	21.00
		1	99	20.42	20.36	20.57	21.00
		50	0	19.72	19.68	19.59	20.00
		50	25	19.71	19.70	19.59	20.00
		50	50	19.75	19.67	19.48	20.00
		100	0	19.71	19.66	19.55	20.00

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LTE Band 38 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	18.01	17.86	17.87	18.60
		1	13	17.96	18.00	17.95	18.60
		1	24	17.88	17.93	17.88	18.60
		12	0	18.03	18.03	17.97	18.60
		12	6	18.08	17.92	17.91	18.60
		12	13	18.00	18.03	17.96	18.60
		25	0	18.03	17.92	17.97	18.60
	16QAM	1	0	18.13	17.93	17.96	18.60
		1	13	18.12	18.14	18.01	18.60
		1	24	18.06	18.10	18.01	18.60
		12	0	18.00	18.02	17.88	18.60
		12	6	18.08	17.98	17.92	18.60
		12	13	18.01	18.03	18.00	18.60
		25	0	18.09	17.99	17.92	18.60
	64QAM	1	0	18.10	17.98	17.91	18.60
		1	13	18.13	18.13	17.97	18.60
		1	24	18.07	18.10	18.01	18.60
		12	0	17.96	17.97	17.84	18.60
		12	6	18.06	18.01	17.89	18.60
		12	13	18.06	18.08	17.95	18.60
		25	0	18.11	17.97	17.97	18.60
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	18.04	17.85	17.86	18.60
		1	25	18.00	18.00	17.94	18.60
		1	49	17.99	17.95	17.87	18.60
		25	0	18.07	17.97	17.87	18.60
		25	13	18.06	18.02	17.91	18.60
		25	25	17.98	18.02	17.99	18.60
		50	0	18.07	18.03	17.86	18.60
	16QAM	1	0	18.11	17.93	17.95	18.60
		1	25	18.07	18.12	18.05	18.60
		1	49	18.10	18.03	18.03	18.60
		25	0	18.08	17.92	17.97	18.60
		25	13	18.07	17.98	17.91	18.60
		25	25	18.01	18.02	17.99	18.60
		50	0	18.04	18.02	17.93	18.60
	64QAM	1	0	18.09	17.96	17.95	18.60
		1	25	18.07	18.13	18.00	18.60
		1	49	18.14	18.00	17.98	18.60
		25	0	18.09	17.91	17.97	18.60
		25	13	18.09	17.95	17.90	18.60
		25	25	18.02	18.02	17.95	18.60
		50	0	18.03	18.06	17.88	18.60

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Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	18.01	18.06	18.06	18.60
		1	38	18.03	18.05	17.99	18.60
		1	74	18.04	18.05	18.12	18.60
		36	0	18.21	18.19	18.13	18.60
		36	18	18.27	18.21	18.06	18.60
		36	39	18.23	18.25	18.15	18.60
		75	0	18.26	18.09	18.12	18.60
	16QAM	1	0	18.37	18.28	18.29	18.60
		1	38	18.19	18.27	18.16	18.60
		1	74	18.23	18.20	18.17	18.60
		36	0	18.14	18.17	18.08	18.60
		36	18	18.25	18.12	18.18	18.60
		36	39	18.17	18.23	18.15	18.60
		75	0	18.20	18.24	18.19	18.60
	64QAM	1	0	18.32	18.26	18.24	18.60
		1	38	18.23	18.24	18.19	18.60
		1	74	18.26	18.18	18.17	18.60
		36	0	18.12	18.22	18.08	18.60
		36	18	18.29	18.15	18.17	18.60
		36	39	18.18	18.28	18.14	18.60
		75	0	18.21	18.24	18.21	18.60

Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	18.18	17.95	18.15	18.60
		1	50	18.08	17.98	17.97	18.60
		1	99	18.05	17.95	18.13	18.60
		50	0	18.12	18.15	18.18	18.60
		50	25	18.21	18.18	18.34	18.60
		50	50	18.18	18.24	18.19	18.60
		100	0	18.33	18.34	18.21	18.60
	16QAM	1	0	18.24	18.20	18.38	18.60
		1	50	18.17	18.15	18.20	18.60
		1	99	18.24	18.04	18.17	18.60
		50	0	18.22	18.22	18.17	18.60
		50	25	18.30	18.19	18.19	18.60
		50	50	18.19	18.24	18.30	18.60
		100	0	18.19	18.13	18.27	18.60
	64QAM	1	0	18.21	18.19	18.36	18.60
		1	50	18.22	18.12	18.21	18.60
		1	99	18.22	18.07	18.19	18.60
		50	0	18.20	18.20	18.16	18.60
		50	25	18.29	18.21	18.15	18.60
		50	50	18.15	18.29	18.31	18.60
		100	0	18.19	18.18	18.22	18.60

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LTE Band 41 (class 2&3) Receiver on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	18.94	19.02	18.84	18.85	18.90	19.50
		1	13	18.90	19.09	18.93	18.98	18.85	19.50
		1	24	18.99	19.06	18.82	18.93	18.86	19.50
		12	0	19.15	19.16	18.97	18.96	19.06	19.50
		12	6	19.19	19.21	19.15	19.10	19.07	19.50
		12	13	19.09	19.20	19.05	19.12	19.12	19.50
		25	0	19.15	19.12	19.05	19.01	19.00	19.50
	16QAM	1	0	19.08	19.32	19.19	19.17	19.25	19.50
		1	13	19.08	19.38	19.28	19.08	19.31	19.50
		1	24	19.41	19.34	19.21	19.29	19.19	19.50
		12	0	19.18	19.19	19.01	19.00	19.05	19.50
		12	6	19.20	19.23	19.07	18.81	19.00	19.50
		12	13	19.16	19.23	19.03	19.04	19.09	19.50
		25	0	19.08	19.19	19.04	19.07	19.02	19.50
	64QAM	1	0	19.17	19.19	19.09	19.07	19.07	19.50
		1	13	19.24	19.23	19.06	19.19	19.12	19.50
		1	24	19.11	19.20	19.06	19.10	18.98	19.50
		12	0	19.14	19.12	19.01	19.06	19.03	19.50
		12	6	19.21	19.25	19.09	19.04	19.02	19.50
		12	13	19.07	19.24	19.00	19.10	19.00	19.50
		25	0	19.07	19.18	18.97	18.98	18.92	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	18.88	19.17	18.86	18.82	18.80	19.50
		1	25	18.91	18.95	18.76	18.88	18.85	19.50
		1	49	18.99	18.87	18.76	18.91	18.81	19.50
		25	0	19.13	19.18	19.01	18.96	18.96	19.50
		25	13	19.07	19.17	19.08	18.99	19.01	19.50
		25	25	19.08	19.26	19.06	19.02	19.02	19.50
		50	0	19.11	19.22	19.05	19.02	18.93	19.50
	16QAM	1	0	19.40	19.44	19.31	19.31	19.29	19.50
		1	25	19.32	19.43	19.19	19.24	19.21	19.50
		1	49	19.35	19.34	19.23	19.25	19.27	19.50
		25	0	19.13	19.16	19.12	19.00	18.93	19.50
		25	13	19.17	19.34	19.08	18.99	18.90	19.50
		25	25	19.19	19.14	19.01	19.16	19.09	19.50
		50	0	19.18	19.11	19.13	19.14	19.11	19.50
	64QAM	1	0	19.25	19.10	19.23	19.27	19.39	19.50
		1	25	19.29	19.44	19.33	19.27	19.44	19.50
		1	49	19.06	19.05	19.16	19.27	19.16	19.50
		25	0	18.97	18.99	18.83	18.97	18.98	19.50
		25	13	19.03	19.27	19.05	19.02	19.06	19.50
		25	25	19.05	19.03	18.93	19.00	18.98	19.50
		50	0	19.04	19.25	19.02	19.03	18.94	19.50

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Bandwidth	Modulation	RB size	RB offset	Channel 39725	Channel 40173	Channel 40620	Channel 41068	Channel 41515	Tune up
15MHz	QPSK	1	0	19.11	19.27	19.19	19.06	19.11	19.50
		1	38	19.09	19.17	19.03	19.02	19.16	19.50
		1	74	18.99	19.27	19.07	19.10	19.19	19.50
		36	0	19.19	19.28	19.14	19.15	19.22	19.50
		36	18	19.32	19.32	19.14	19.22	19.15	19.50
		36	39	19.31	19.31	19.16	19.24	19.17	19.50
		75	0	19.31	19.33	19.20	19.29	19.29	19.50
	16QAM	1	0	19.05	19.05	19.36	19.43	19.02	19.50
		1	38	19.07	19.44	19.33	19.36	19.25	19.50
		1	74	19.45	19.06	19.41	19.04	19.45	19.50
		36	0	19.22	19.28	19.23	19.09	19.20	19.50
		36	18	19.28	19.34	19.13	19.13	19.07	19.50
		36	39	19.27	19.32	19.13	19.21	19.29	19.50
		75	0	19.29	19.43	19.28	19.21	19.33	19.50
	64QAM	1	0	19.23	19.08	19.24	19.22	19.42	19.50
		1	38	19.19	19.44	19.12	19.20	19.25	19.50
		1	74	19.14	19.35	19.19	19.29	19.15	19.50
		36	0	19.07	19.23	19.20	19.14	19.25	19.50
		36	18	19.18	19.33	19.19	19.24	19.22	19.50
		36	39	19.16	19.33	19.22	19.20	19.15	19.50
		75	0	19.32	19.43	19.22	19.23	19.31	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490	Tune up
20MHz	QPSK	1	0	19.21	19.21	19.13	19.05	19.13	19.50
		1	50	18.97	18.94	18.95	19.04	18.92	19.50
		1	99	19.00	19.06	19.04	19.00	19.14	19.50
		50	0	19.23	19.27	19.18	19.17	19.22	19.50
		50	25	19.40	19.39	19.20	19.25	19.21	19.50
		50	50	19.31	19.29	19.21	19.24	19.17	19.50
		100	0	19.32	19.32	19.26	19.29	19.14	19.50
	16QAM	1	0	19.46	19.09	19.09	19.03	19.46	19.50
		1	50	19.45	19.40	19.23	19.41	19.42	19.50
		1	99	19.44	19.09	19.36	19.42	19.18	19.50
		50	0	19.25	19.41	19.25	19.25	19.29	19.50
		50	25	19.35	19.43	19.25	19.36	19.27	19.50
		50	50	19.25	19.41	19.31	19.31	19.39	19.50
		100	0	19.33	19.07	19.29	19.32	19.20	19.50
	64QAM	1	0	19.17	19.41	19.39	19.28	19.39	19.50
		1	50	19.09	19.27	19.20	19.31	19.18	19.50
		1	99	19.08	19.27	19.04	19.30	19.08	19.50
		50	0	19.11	19.24	19.12	19.11	19.16	19.50
		50	25	19.32	19.42	19.22	19.23	19.11	19.50
		50	50	19.10	19.27	19.15	19.19	19.28	19.50
		100	0	19.30	19.39	19.33	19.24	19.15	19.50

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LTE Band 41(class 2&3) Receiver off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	19.63	19.44	19.40	19.36	19.31	20.50
		1	13	19.76	19.51	19.48	19.51	19.39	20.50
		1	24	19.62	19.41	19.49	19.44	19.24	20.50
		12	0	19.79	19.69	19.54	19.54	19.42	20.50
		12	6	19.84	19.71	19.67	19.68	19.54	20.50
		12	13	19.85	19.72	19.65	19.62	19.55	20.50
		25	0	19.78	19.70	19.61	19.61	19.51	20.50
	16QAM	1	0	19.87	19.82	19.68	19.65	19.64	20.50
		1	13	20.04	19.86	19.73	19.69	19.76	20.50
		1	24	19.91	19.85	19.66	19.67	19.76	20.50
		12	0	19.83	19.73	19.52	19.56	19.56	20.50
		12	6	19.79	19.71	19.66	19.62	19.58	20.50
		12	13	19.74	19.62	19.55	19.60	19.59	20.50
		25	0	19.85	19.71	19.60	19.62	19.50	20.50
	64QAM	1	0	19.61	19.43	19.42	19.34	19.26	20.50
		1	13	19.73	19.53	19.46	19.53	19.43	20.50
		1	24	19.63	19.36	19.44	19.48	19.28	20.50
		12	0	19.78	19.70	19.55	19.49	19.47	20.50
		12	6	19.80	19.76	19.67	19.65	19.56	20.50
		12	13	19.87	19.67	19.64	19.65	19.58	20.50
		25	0	19.78	19.69	19.57	19.60	19.54	20.50
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	19.71	19.49	19.46	19.44	19.32	20.50
		1	25	19.70	19.58	19.37	19.36	19.33	20.50
		1	49	19.67	19.61	19.50	19.45	19.43	20.50
		25	0	19.80	19.66	19.61	19.65	19.54	20.50
		25	13	19.97	19.74	19.62	19.62	19.72	20.50
		25	25	19.88	19.65	19.55	19.56	19.61	20.50
		50	0	19.83	19.68	19.53	19.54	19.58	20.50
	16QAM	1	0	19.91	19.84	19.87	19.85	19.81	20.50
		1	25	20.01	19.85	19.79	19.74	19.83	20.50
		1	49	19.91	19.87	19.89	19.90	19.68	20.50
		25	0	19.73	19.57	19.48	19.49	19.45	20.50
		25	13	19.73	19.65	19.56	19.57	19.58	20.50
		25	25	19.71	19.64	19.62	19.59	19.53	20.50
		50	0	19.86	19.67	19.61	19.57	19.64	20.50
	64QAM	1	0	19.74	19.44	19.46	19.43	19.36	20.50
		1	25	19.66	19.60	19.38	19.41	19.35	20.50
		1	49	19.62	19.66	19.46	19.44	19.40	20.50
		25	0	19.85	19.65	19.64	19.64	19.49	20.50
		25	13	19.93	19.73	19.58	19.64	19.70	20.50
		25	25	19.92	19.68	19.60	19.51	19.66	20.50
		50	0	19.83	19.67	19.50	19.54	19.61	20.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	19.88	19.81	19.80	19.83	19.72	20.50
		1	38	19.86	19.76	19.69	19.74	19.65	20.50
		1	74	19.90	19.81	19.77	19.81	19.88	20.50
		36	0	20.02	20.08	19.84	19.88	19.84	20.50
		36	18	20.01	19.96	19.93	19.98	19.88	20.50
		36	39	20.03	19.98	19.88	19.84	19.84	20.50
		75	0	20.07	20.00	19.89	19.86	19.76	20.50
	16QAM	1	0	20.06	20.05	20.06	20.02	20.01	20.50
		1	38	20.08	20.03	19.99	20.01	20.02	20.50
		1	74	20.05	20.08	20.06	20.02	20.03	20.50
		36	0	19.93	19.92	19.81	19.82	19.86	20.50
		36	18	20.07	19.99	19.84	19.87	19.76	20.50
		36	39	20.02	19.95	19.91	19.88	19.82	20.50
		75	0	20.06	20.07	19.88	19.87	19.83	20.50
	64QAM	1	0	19.87	19.83	19.75	19.82	19.72	20.50
		1	38	19.89	19.79	19.68	19.79	19.69	20.50
		1	74	19.87	19.76	19.76	19.85	19.84	20.50
		36	0	20.01	20.08	19.86	19.92	19.85	20.50
		36	18	20.07	19.95	19.89	19.98	19.92	20.50
		36	39	20.06	19.98	19.88	19.81	19.79	20.50
		75	0	20.03	19.96	19.92	19.86	19.81	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	19.61	19.54	19.67	19.48	19.47	20.50
		1	50	19.66	19.52	19.45	19.49	19.40	20.50
		1	99	19.61	19.46	19.47	19.42	19.44	20.50
		50	0	19.76	19.74	19.64	19.69	19.55	20.50
		50	25	19.87	19.80	19.62	19.60	19.69	20.50
		50	50	19.84	19.72	19.88	19.70	19.64	20.50
		100	0	19.87	19.81	19.66	19.62	19.66	20.50
	16QAM	1	0	20.09	19.99	19.94	19.93	19.91	20.50
		1	50	20.01	19.86	19.79	19.76	19.75	20.50
		1	99	19.86	19.97	19.91	19.92	19.77	20.50
		50	0	19.84	19.77	19.70	19.72	19.71	20.50
		50	25	19.89	19.79	19.74	19.72	19.73	20.50
		50	50	19.84	19.77	19.70	19.74	19.72	20.50
		100	0	19.80	19.83	19.61	19.64	19.71	20.50
	64QAM	1	0	19.59	19.54	19.55	19.44	19.43	20.50
		1	50	19.70	19.51	19.42	19.44	19.37	20.50
		1	99	19.66	19.50	19.44	19.37	19.40	20.50
		50	0	19.81	19.69	19.60	19.74	19.52	20.50
		50	25	19.87	19.78	19.65	19.59	19.71	20.50
		50	50	19.89	19.68	19.65	19.73	19.60	20.50
		100	0	19.92	19.84	19.67	19.64	19.70	20.50

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LTE Band 41 (class 2&3) WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on/ WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	18.25	18.31	18.17	18.22	18.17	18.80
		1	13	18.27	18.38	18.22	18.34	18.32	18.80
		1	24	18.18	18.36	18.14	18.20	18.23	18.80
		12	0	18.44	18.42	18.34	18.32	18.26	18.80
		12	6	18.40	18.53	18.40	18.37	18.31	18.80
		12	13	18.38	18.48	18.37	18.40	18.30	18.80
		25	0	18.42	18.48	18.30	18.12	18.29	18.80
	16QAM	1	0	18.69	18.62	18.53	18.56	18.48	18.80
		1	13	18.64	18.71	18.58	18.59	18.63	18.80
		1	24	18.56	18.59	18.59	18.56	18.59	18.80
		12	0	18.43	18.46	18.36	18.35	18.30	18.80
		12	6	18.50	18.58	18.43	18.30	18.40	18.80
		12	13	18.42	18.51	18.40	18.38	18.45	18.80
		25	0	18.41	18.58	18.34	18.35	18.30	18.80
	64QAM	1	0	18.44	18.50	18.42	18.32	18.37	18.80
		1	13	18.54	18.66	18.39	18.48	18.53	18.80
		1	24	18.42	18.53	18.38	18.46	18.35	18.80
		12	0	18.42	18.42	18.31	18.36	17.95	18.80
		12	6	18.39	18.57	18.38	18.37	18.30	18.80
		12	13	18.40	18.50	18.34	18.37	18.39	18.80
		25	0	18.36	18.53	18.29	18.27	18.31	18.80
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	18.23	18.28	18.21	18.12	18.17	18.80
		1	25	18.14	18.21	18.09	18.04	18.17	18.80
		1	49	18.12	18.32	18.17	18.18	18.11	18.80
		25	0	18.35	18.41	18.38	18.29	18.29	18.80
		25	13	18.47	18.53	18.34	18.25	18.30	18.80
		25	25	18.45	18.47	18.37	18.38	18.31	18.80
		50	0	18.41	18.66	18.32	18.22	18.33	18.80
	16QAM	1	0	18.66	18.02	18.56	18.05	18.55	18.80
		1	25	18.58	18.72	18.53	18.56	18.45	18.80
		1	49	18.54	18.64	18.57	18.52	18.59	18.80
		25	0	18.39	18.32	18.26	18.22	18.24	18.80
		25	13	18.44	18.65	18.42	18.37	18.43	18.80
		25	25	18.37	18.54	18.23	18.31	18.45	18.80
		50	0	18.49	18.60	18.45	18.36	18.34	18.80
	64QAM	1	0	18.51	18.03	18.61	18.63	18.73	18.80
		1	25	18.34	18.01	18.38	18.54	18.73	18.80
		1	49	18.29	18.07	18.54	18.73	18.74	18.80
		25	0	18.53	18.35	18.22	18.29	18.41	18.80
		25	13	18.40	18.43	18.35	18.39	18.30	18.80
		25	25	18.25	18.51	18.24	18.25	18.25	18.80
		50	0	18.45	18.55	18.38	18.30	18.28	18.80

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Bandwidth	Modulation	RB size	RB offset	Channel 39725	Channel 40173	Channel 40620	Channel 41068	Channel 41515	Tune up
15MHz	QPSK	1	0	18.35	18.48	18.49	18.45	18.35	18.80
		1	38	18.32	18.49	18.30	18.36	18.33	18.80
		1	74	18.43	18.56	18.46	18.40	18.46	18.80
		36	0	18.53	18.53	18.43	18.55	18.45	18.80
		36	18	18.51	18.65	18.42	18.37	18.46	18.80
		36	39	18.51	18.62	18.44	18.55	18.50	18.80
		75	0	18.57	18.67	18.50	18.49	18.56	18.80
	16QAM	1	0	18.01	18.06	18.72	18.70	18.74	18.80
		1	38	18.69	18.73	18.65	18.51	18.65	18.80
		1	74	18.69	18.06	18.72	18.70	18.04	18.80
		36	0	18.52	18.66	18.44	18.45	18.51	18.80
		36	18	18.57	18.62	18.45	18.51	18.38	18.80
		36	39	18.52	18.62	18.46	18.43	18.52	18.80
		75	0	18.51	18.63	18.59	18.56	18.56	18.80
	64QAM	1	0	18.55	18.74	18.59	18.57	18.70	18.80
		1	38	18.51	18.08	18.50	18.54	18.70	18.80
		1	74	18.45	18.05	18.42	18.66	18.06	18.80
		36	0	18.54	18.67	18.47	18.47	18.46	18.80
		36	18	18.48	18.66	18.48	18.48	18.54	18.80
		36	39	18.56	18.64	18.41	18.55	18.57	18.80
		75	0	18.63	18.71	18.51	18.56	18.60	18.80
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 39750**	**Channel 40185**	**Channel 40620**	**Channel 41055**	**Channel 41490**	**Tune up**
20MHz	QPSK	1	0	18.28	18.43	18.54	18.55	18.65	18.80
		1	50	18.22	18.11	18.30	18.36	18.23	18.80
		1	99	18.20	18.21	18.34	18.24	18.46	18.80
		50	0	18.50	18.56	18.55	18.55	18.45	18.80
		50	25	18.60	18.57	18.52	18.34	18.38	18.80
		50	50	18.51	18.45	18.56	18.55	18.50	18.80
		100	0	18.56	18.50	18.46	18.44	18.56	18.80
	16QAM	1	0	18.77	18.71	18.17	18.72	18.73	18.80
		1	50	18.63	18.66	18.70	18.51	18.65	18.80
		1	99	18.72	18.64	18.63	18.07	18.74	18.80
		50	0	18.53	18.62	18.67	18.46	18.51	18.80
		50	25	18.53	18.57	18.56	18.51	18.34	18.80
		50	50	18.51	18.51	18.55	18.42	18.52	18.80
		100	0	18.63	18.63	18.49	18.51	18.06	18.80
	64QAM	1	0	18.56	18.73	18.07	18.75	18.67	18.80
		1	50	18.45	18.59	18.54	18.64	18.55	18.80
		1	99	18.36	18.59	18.46	18.09	18.52	18.80
		50	0	18.48	18.60	18.47	18.43	18.55	18.80
		50	25	18.60	18.69	18.45	18.55	18.38	18.80
		50	50	18.51	18.60	18.41	18.54	18.54	18.80
		100	0	18.64	18.68	18.57	18.58	18.50	18.80

Table 13： Conducted Power of LTE

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8.1.2 Conducted Power of Main Antenna(Ant1)

8.1.2.1 Conducted Power of GSM

GSM 850 Receiver on/ WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	32.66	32.71	32.67	34.00	-9.19	23.47	23.52	23.48	24.81
GPRS/ EGPRS (GMSK)	1 TX Slot	32.64	32.63	32.68	34.00	-9.19	23.45	23.44	23.49	24.81
	2 TX Slots	30.84	30.69	30.82	32.50	-6.18	24.66	24.51	24.64	26.32
	3 TX Slots	29.24	29.24	29.20	31.00	-4.42	24.82	24.82	24.78	26.58
	4 TX Slots	27.66	27.89	27.74	29.50	-3.17	24.49	24.72	24.57	26.33
EGPRS (8PSK)	1 TX Slot	27.06	27.13	27.07	29.00	-9.19	17.87	17.94	17.88	19.81
	2 TX Slots	25.38	25.59	25.44	27.00	-6.18	19.2	19.41	19.26	20.82
	3 TX Slots	23.38	23.13	23.48	25.00	-4.42	18.96	18.71	19.06	20.58
	4 TX Slots	22.46	22.42	22.29	24.00	-3.17	19.29	19.25	19.12	20.83
GSM 850 Receiver off										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	30.99	30.82	30.89	32.20	-9.19	21.8	21.63	21.70	23.01
GPRS/ EGPRS (GMSK)	1 TX Slot	30.96	30.75	30.93	32.20	-9.19	21.77	21.56	21.74	23.01
	2 TX Slots	29.15	29.12	29.19	30.70	-6.18	22.97	22.94	23.01	24.52
	3 TX Slots	27.22	27.25	27.20	29.20	-4.42	22.80	22.83	22.78	**24.78**
	4 TX Slots	26.23	26.25	25.86	27.70	-3.17	23.06	23.08	22.69	24.53
EGPRS (8PSK)	1 TX Slot	25.78	25.68	25.72	27.20	-9.19	16.59	16.49	16.53	18.01
	2 TX Slots	23.35	23.71	23.46	25.20	-6.18	17.17	17.53	17.28	19.02
	3 TX Slots	21.35	21.45	21.40	23.20	-4.42	16.93	17.03	16.98	18.78
	4 TX Slots	20.38	20.51	20.39	22.20	-3.17	17.21	17.34	17.22	19.03

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GSM 850 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		128	190	251			128	190	251	
GSM(GMSK)	GSM	29.41	29.34	29.35	30.50	-9.19	20.22	20.15	20.16	21.31
GPRS/ EGPRS (GMSK)	1 TX Slot	29.33	29.37	29.36	30.50	-9.19	20.14	20.18	20.17	21.31
	2 TX Slots	27.58	27.77	27.82	29.00	-6.18	21.4	21.59	21.64	22.82
	3 TX Slots	25.78	25.81	25.85	27.50	-4.42	21.36	21.39	21.43	23.08
	4 TX Slots	24.65	24.58	24.19	26.00	-3.17	21.48	21.41	21.02	22.83
EGPRS (8PSK)	1 TX Slot	23.89	24.25	24.13	25.50	-9.19	14.70	15.06	14.94	16.31
	2 TX Slots	21.82	21.93	21.56	23.50	-6.18	15.64	15.75	15.38	17.32
	3 TX Slots	19.83	19.87	19.92	21.50	-4.42	15.41	15.45	15.50	17.08
	4 TX Slots	18.65	18.71	18.67	20.50	-3.17	15.48	15.54	15.50	17.33

Table 14：Conducted Power of GSM

Note:

1）. CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2）. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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8.1.2.2 Conducted Power of WCDMA

WCDMA Band V Receiver on WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	24.25	24.31	24.21	25.00
	12.2kbps AMR	24.23	24.29	24.16	25.00
HSDPA	Subtest 1	23.29	23.36	23.25	24.50
	Subtest 2	23.28	23.33	23.24	24.50
	Subtest 3	22.76	22.79	22.77	24.00
	Subtest 4	22.75	22.83	22.72	24.00
HSUPA	Subtest 1	23.25	23.30	23.23	24.50
	Subtest 2	21.28	21.30	21.22	22.50
	Subtest 3	22.24	22.26	22.21	23.50
	Subtest 4	21.22	21.28	21.20	22.50
	Subtest 5	23.30	23.33	23.12	24.50
DC-HSDPA	Subtest 1	23.27	23.32	23.21	24.50
	Subtest 2	23.23	23.29	23.16	24.50
	Subtest 3	22.74	22.83	22.81	24.00
	Subtest 4	22.77	22.86	22.72	24.00
HSPA+	16QAM	23.20	23.25	23.22	24.50

WCDMA Band V Receiver off					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	22.63	22.71	22.52	23.40
	12.2kbps AMR	22.61	22.68	22.49	23.40
HSDPA	Subtest 1	21.69	21.72	21.65	22.90
	Subtest 2	21.67	21.67	21.62	22.90
	Subtest 3	21.18	21.23	21.13	22.40
	Subtest 4	21.18	20.86	21.12	22.40
HSUPA	Subtest 1	21.66	21.71	21.61	22.90
	Subtest 2	19.62	19.70	19.66	20.90
	Subtest 3	20.62	20.67	20.62	21.90
	Subtest 4	19.66	19.71	19.59	20.90
	Subtest 5	21.61	21.70	21.62	22.90
DC-HSDPA	Subtest 1	21.63	21.69	21.62	22.90
	Subtest 2	21.60	21.68	21.64	22.90
	Subtest 3	21.22	21.20	21.18	22.40
	Subtest 4	21.17	20.82	21.10	22.40
HSPA+	16QAM	21.57	21.68	21.63	22.90

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WCDMA Band V WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/ WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	20.96	20.93	20.98	21.70
	12.2kbps AMR	20.95	20.89	20.86	21.70
HSDPA	Subtest 1	19.95	20.02	19.95	21.20
	Subtest 2	19.92	20.00	19.91	21.20
	Subtest 3	19.45	19.49	19.43	20.70
	Subtest 4	19.42	19.48	19.39	20.70
HSUPA	Subtest 1	19.96	19.97	19.92	21.20
	Subtest 2	17.97	17.96	17.93	19.20
	Subtest 3	18.94	18.96	18.93	20.20
	Subtest 4	17.92	17.99	17.92	19.20
	Subtest 5	19.92	20.00	19.94	21.20
DC-HSDPA	Subtest 1	20.00	19.97	19.98	21.20
	Subtest 2	19.97	19.91	19.91	21.20
	Subtest 3	19.43	19.45	19.39	20.70
	Subtest 4	19.40	19.50	19.38	20.70
HSPA+	16QAM	19.97	20.01	19.98	21.20

Table 15：Conducted Power of WCDMA

Note:

2) when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

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8.1.2.3 Conducted Power of LTE

LTE Band 5 Receiver on/ WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	23.78	23.74	23.86	25.00
		1	2	23.80	23.90	23.95	25.00
		1	5	23.79	23.77	23.82	25.00
		3	0	23.74	23.90	23.86	25.00
		3	2	23.88	23.86	24.01	25.00
		3	3	23.82	23.89	23.88	25.00
		6	0	22.89	22.93	22.99	24.00
	16QAM	1	0	23.29	23.39	22.98	24.00
		1	2	23.11	23.35	23.59	24.00
		1	5	23.04	23.42	23.08	24.00
		3	0	22.85	22.99	23.14	24.00
		3	2	22.97	22.88	23.02	24.00
		3	3	22.79	23.01	22.90	24.00
		6	0	21.96	22.15	21.95	23.00
	64QAM	1	0	22.09	22.35	21.91	23.00
		1	2	22.03	22.34	22.52	23.00
		1	5	21.85	22.24	21.90	23.00
		3	0	21.85	21.95	21.99	23.00
		3	2	21.89	21.82	22.02	23.00
		3	3	21.63	21.92	21.88	23.00
		6	0	20.85	20.99	20.82	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	24.04	24.01	24.06	25.00
		1	7	23.99	23.95	24.02	25.00
		1	14	23.92	23.92	23.95	25.00
		8	0	22.95	23.04	22.99	24.00
		8	4	23.02	23.09	23.12	24.00
		8	7	23.01	23.05	22.96	24.00
		15	0	23.01	23.00	23.00	24.00
	16QAM	1	0	23.03	23.15	23.39	24.00
		1	7	22.85	23.07	22.89	24.00
		1	14	23.32	23.41	23.10	24.00
		8	0	22.03	22.06	22.03	23.00
		8	4	22.13	22.17	22.12	23.00
		8	7	22.01	21.96	22.04	23.00
		15	0	21.99	22.11	21.96	23.00
	64QAM	1	0	21.95	21.99	22.39	23.00
		1	7	21.75	21.95	21.70	23.00
		1	14	22.17	22.27	21.90	23.00
		8	0	20.89	20.90	20.91	22.00
		8	4	21.00	21.02	21.00	22.00
		8	7	20.87	20.95	20.98	22.00
		15	0	20.90	21.10	20.88	22.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	23.97	24.01	23.93	25.00
		1	13	23.76	24.04	23.93	25.00
		1	24	23.90	23.95	23.93	25.00
		12	0	23.05	23.05	23.09	24.00
		12	6	23.00	23.06	23.09	24.00
		12	13	22.98	22.99	22.92	24.00
		25	0	23.00	23.05	23.05	24.00
	16QAM	1	0	23.20	22.98	23.18	24.00
		1	13	23.14	23.53	22.93	24.00
		1	24	23.73	23.31	23.21	24.00
		12	0	22.07	22.11	22.00	23.00
		12	6	22.04	22.06	21.89	23.00
		12	13	22.04	21.96	22.04	23.00
		25	0	21.99	22.05	22.09	23.00
	64QAM	1	0	22.17	21.86	22.09	23.00
		1	13	21.97	22.51	21.79	23.00
		1	24	22.69	22.20	22.05	23.00
		12	0	20.88	20.91	20.91	22.00
		12	6	20.86	20.87	20.83	22.00
		12	13	20.89	20.94	21.02	22.00
		25	0	20.83	20.95	20.90	22.00

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	23.87	24.00	24.09	25.00
		1	25	24.10	23.85	23.96	25.00
		1	49	23.86	24.04	24.00	25.00
		25	0	22.98	22.98	23.08	24.00
		25	13	22.89	23.15	23.13	24.00
		25	25	23.16	22.99	22.96	24.00
		50	0	23.10	22.94	23.11	24.00
	16QAM	1	0	22.98	23.51	23.67	24.00
		1	25	23.30	23.18	23.25	24.00
		1	49	22.97	22.98	23.74	24.00
		25	0	21.99	21.96	21.93	23.00
		25	13	22.06	22.01	22.19	23.00
		25	25	22.00	22.10	22.00	23.00
		50	0	22.05	22.06	22.07	23.00
	64QAM	1	0	22.01	22.48	22.25	23.00
		1	25	22.72	22.08	22.40	23.00
		1	49	21.87	21.99	21.82	23.00
		25	0	20.98	20.96	21.19	22.00
		25	13	21.22	21.08	21.14	22.00
		25	25	21.06	21.06	20.97	22.00
		50	0	21.03	20.93	20.91	22.00

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LTE Band 5 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	22.57	22.59	22.61	23.80
		1	2	22.64	22.75	22.77	23.80
		1	5	22.62	22.66	22.62	23.80
		3	0	22.66	22.69	22.68	23.80
		3	2	22.63	22.69	22.69	23.80
		3	3	22.64	22.69	22.68	23.80
		6	0	22.65	22.79	22.78	23.80
	16QAM	1	0	22.90	22.82	23.09	23.80
		1	2	22.94	23.18	23.21	23.80
		1	5	23.03	23.20	22.71	23.80
		3	0	22.73	22.85	22.72	23.80
		3	2	22.82	22.63	22.83	23.80
		3	3	22.73	22.63	22.81	23.80
		6	0	21.85	22.11	22.08	23.00
	64QAM	1	0	22.08	22.31	21.90	23.00
		1	2	22.02	22.28	22.50	23.00
		1	5	21.78	22.06	21.90	23.00
		3	0	21.65	21.90	21.82	23.00
		3	2	21.69	21.69	21.90	23.00
		3	3	21.56	21.87	21.71	23.00
		6	0	20.67	20.95	20.65	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	22.78	22.86	22.81	23.80
		1	7	22.67	22.80	22.73	23.80
		1	14	22.71	22.56	22.72	23.80
		8	0	22.79	22.78	22.74	23.80
		8	4	22.81	22.78	22.82	23.80
		8	7	22.69	22.78	22.78	23.80
		15	0	22.76	22.86	22.81	23.80
	16QAM	1	0	23.14	22.95	23.19	23.80
		1	7	23.19	22.86	23.17	23.80
		1	14	23.20	22.84	23.18	23.80
		8	0	21.95	22.00	21.97	23.00
		8	4	22.00	22.18	22.13	23.00
		8	7	22.01	22.16	21.98	23.00
		15	0	21.92	22.12	22.02	23.00
	64QAM	1	0	21.80	21.84	22.27	23.00
		1	7	21.66	21.93	21.68	23.00
		1	14	22.15	22.26	21.75	23.00
		8	0	20.74	20.87	20.91	22.00
		8	4	20.96	21.01	20.96	22.00
		8	7	20.74	20.76	20.98	22.00
		15	0	20.83	20.96	20.85	22.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	22.78	22.81	22.81	23.80
		1	13	22.72	22.81	22.85	23.80
		1	24	22.68	22.68	22.69	23.80
		12	0	22.74	22.84	22.79	23.80
		12	6	22.76	22.90	22.80	23.80
		12	13	22.79	22.77	22.82	23.80
		25	0	22.79	22.86	22.85	23.80
	16QAM	1	0	23.00	22.65	23.02	23.80
		1	13	22.90	23.20	22.81	23.80
		1	24	22.65	22.98	23.20	23.80
		12	0	21.95	22.14	22.01	23.00
		12	6	22.03	22.01	22.07	23.00
		12	13	21.88	21.99	22.01	23.00
		25	0	22.13	22.02	22.11	23.00
	64QAM	1	0	21.98	21.85	22.07	23.00
		1	13	21.82	22.46	21.76	23.00
		1	24	22.64	22.07	21.96	23.00
		12	0	20.88	20.87	20.84	22.00
		12	6	20.86	20.68	20.75	22.00
		12	13	20.78	20.78	20.91	22.00
		25	0	20.66	20.87	20.71	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	22.59	22.63	22.73	23.80
		1	25	22.76	22.75	22.64	23.80
		1	49	22.66	22.64	22.63	23.80
		25	0	22.80	22.81	22.84	23.80
		25	13	22.92	22.84	22.90	23.80
		25	25	22.93	22.74	22.75	23.80
		50	0	22.74	22.79	22.87	23.80
	16QAM	1	0	23.03	23.04	23.21	23.80
		1	25	23.03	22.77	23.01	23.80
		1	49	22.98	23.16	23.15	23.80
		25	0	21.95	21.98	22.14	23.00
		25	13	22.00	22.10	22.10	23.00
		25	25	21.94	21.95	21.87	23.00
		50	0	22.15	22.15	22.07	23.00
	64QAM	1	0	21.44	22.11	22.10	23.00
		1	25	22.68	21.90	21.97	23.00
		1	49	22.21	22.17	22.00	23.00
		25	0	21.06	21.12	20.97	22.00
		25	13	21.21	21.16	21.13	22.00
		25	25	21.07	20.96	21.13	22.00
		50	0	20.91	20.98	21.08	22.00

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LTE Band 5 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20525	Channel 20643	Tune up
1.4MHz	QPSK	1	0	20.73	20.82	20.91	22.00
		1	2	20.83	20.87	20.92	22.00
		1	5	20.76	20.70	20.85	22.00
		3	0	20.82	20.87	20.91	22.00
		3	2	20.85	20.96	20.94	22.00
		3	3	20.85	20.84	20.87	22.00
		6	0	20.85	20.94	21.02	22.00
	16QAM	1	0	21.32	20.79	21.09	22.00
		1	2	21.03	21.04	20.93	22.00
		1	5	20.77	21.17	20.99	22.00
		3	0	20.97	20.94	20.92	22.00
		3	2	20.74	20.83	20.98	22.00
		3	3	20.75	20.75	21.13	22.00
		6	0	20.99	20.97	21.05	22.00
	64QAM	1	0	21.19	21.18	21.06	22.00
		1	2	21.13	20.99	21.16	22.00
		1	5	21.05	21.04	21.07	22.00
		3	0	21.10	21.17	21.11	22.00
		3	2	21.22	21.18	21.25	22.00
		3	3	21.05	21.19	20.98	22.00
		6	0	21.19	21.12	21.10	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20525	Channel 20635	Tune up
3MHz	QPSK	1	0	20.70	20.80	20.98	22.00
		1	7	20.95	20.88	20.93	22.00
		1	14	20.92	20.88	20.81	22.00
		8	0	20.93	21.08	21.03	22.00
		8	4	20.99	21.05	21.03	22.00
		8	7	20.92	21.04	21.02	22.00
		15	0	20.98	20.94	20.97	22.00
	16QAM	1	0	21.20	21.31	21.34	22.00
		1	7	21.01	21.00	21.32	22.00
		1	14	21.02	21.33	21.09	22.00
		8	0	21.00	21.11	21.05	22.00
		8	4	21.06	21.08	21.07	22.00
		8	7	20.92	21.04	21.09	22.00
		15	0	21.02	21.13	21.00	22.00
	64QAM	1	0	20.91	20.84	21.04	22.00
		1	7	21.02	21.13	21.00	22.00
		1	14	21.07	21.13	20.81	22.00
		8	0	20.95	21.23	21.21	22.00
		8	4	21.22	21.06	21.17	22.00
		8	7	20.93	21.16	21.04	22.00
		15	0	21.23	21.05	21.11	22.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625	Tune up
5MHz	QPSK	1	0	21.00	21.09	20.91	22.00
		1	13	20.89	20.97	20.96	22.00
		1	24	20.97	20.96	20.91	22.00
		12	0	20.96	21.03	21.01	22.00
		12	6	20.99	21.05	21.04	22.00
		12	13	20.97	20.97	20.98	22.00
		25	0	21.06	21.06	20.98	22.00
	16QAM	1	0	21.23	21.34	20.88	22.00
		1	13	21.33	21.27	20.92	22.00
		1	24	21.04	21.35	21.25	22.00
		12	0	20.93	21.07	21.06	22.00
		12	6	20.92	21.07	21.11	22.00
		12	13	20.93	21.00	21.15	22.00
		25	0	20.94	21.12	21.13	22.00
	64QAM	1	0	21.21	21.13	21.00	22.00
		1	13	20.95	21.06	21.18	22.00
		1	24	21.03	21.10	21.07	22.00
		12	0	21.12	21.23	21.21	22.00
		12	6	21.09	21.11	21.18	22.00
		12	13	21.02	20.99	21.16	22.00
		25	0	21.28	21.27	21.02	22.00

Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600	Tune up
10MHz	QPSK	1	0	20.99	20.81	20.86	22.00
		1	25	20.95	20.93	20.91	22.00
		1	49	20.87	20.90	20.93	22.00
		25	0	21.01	21.29	20.98	22.00
		25	13	20.96	21.04	21.12	22.00
		25	25	21.04	21.08	21.33	22.00
		50	0	20.94	20.89	21.17	22.00
	16QAM	1	0	21.10	21.34	21.36	22.00
		1	25	21.33	21.08	21.19	22.00
		1	49	21.25	21.33	21.24	22.00
		25	0	20.99	20.98	21.35	22.00
		25	13	21.03	21.05	21.01	22.00
		25	25	21.01	20.94	21.06	22.00
		50	0	21.05	21.02	20.95	22.00
	64QAM	1	0	20.78	21.19	21.20	22.00
		1	25	21.18	21.20	21.32	22.00
		1	49	21.10	21.34	21.33	22.00
		25	0	21.07	21.06	21.01	22.00
		25	13	21.26	21.12	21.14	22.00
		25	25	21.18	21.04	21.10	22.00
		50	0	20.75	20.98	21.08	22.00

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LTE Band 12 Receiver on/Receiver off/WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	23.76	23.74	23.68	24.80
		1	2	23.85	23.83	23.80	24.80
		1	5	23.77	23.83	23.67	24.80
		3	0	23.82	23.80	23.77	24.80
		3	2	23.84	23.84	23.86	24.80
		3	3	23.87	23.78	23.78	24.80
		6	0	22.86	22.86	22.88	23.80
	16QAM	1	0	23.29	23.13	22.85	23.80
		1	2	23.31	23.54	23.46	23.80
		1	5	23.65	23.26	23.21	23.80
		3	0	22.95	22.89	23.01	23.80
		3	2	23.14	22.91	22.95	23.80
		3	3	22.84	22.87	22.79	23.80
		6	0	21.89	21.93	21.90	22.80
	64QAM	1	0	21.63	21.54	21.44	22.80
		1	2	21.64	21.76	21.67	22.80
		1	5	21.53	21.63	21.53	22.80
		3	0	21.82	21.69	21.62	22.80
		3	2	21.71	21.84	21.68	22.80
		3	3	21.82	21.58	21.78	22.80
		6	0	20.81	20.85	20.71	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	23.90	24.02	23.82	24.80
		1	7	23.97	23.95	23.94	24.80
		1	14	23.87	23.86	23.83	24.80
		8	0	22.99	23.00	22.92	23.80
		8	4	22.97	23.02	22.91	23.80
		8	7	22.95	22.98	22.86	23.80
		15	0	22.96	22.89	22.85	23.80
	16QAM	1	0	22.78	23.10	23.01	23.80
		1	7	23.13	23.07	23.01	23.80
		1	14	23.34	23.35	23.38	23.80
		8	0	21.99	22.02	22.04	22.80
		8	4	22.06	22.12	22.08	22.80
		8	7	22.01	21.99	21.82	22.80
		15	0	22.07	22.10	22.03	22.80
	64QAM	1	0	21.88	21.82	21.74	22.80
		1	7	21.97	21.93	21.88	22.80
		1	14	21.68	21.62	21.68	22.80
		8	0	20.85	20.83	20.85	21.80
		8	4	20.83	20.99	20.76	21.80
		8	7	20.76	20.94	20.72	21.80
		15	0	20.94	20.75	20.68	21.80

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Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155	Tune up
5MHz	QPSK	1	0	23.85	23.84	23.93	24.80
		1	13	24.01	23.84	23.84	24.80
		1	24	23.88	23.81	23.88	24.80
		12	0	23.01	23.02	22.98	23.80
		12	6	22.98	23.02	22.92	23.80
		12	13	22.91	22.96	22.87	23.80
		25	0	22.97	22.95	23.01	23.80
	16QAM	1	0	23.31	23.19	23.21	23.80
		1	13	23.18	23.49	23.12	23.80
		1	24	23.55	22.96	23.60	23.80
		12	0	22.03	21.99	21.96	22.80
		12	6	21.96	22.02	21.96	22.80
		12	13	21.98	21.90	22.01	22.80
		25	0	22.05	21.84	21.99	22.80
	64QAM	1	0	21.67	21.84	21.85	22.80
		1	13	21.80	21.73	21.63	22.80
		1	24	21.73	21.56	21.72	22.80
		12	0	20.98	20.81	20.78	21.80
		12	6	20.79	21.01	20.72	21.80
		12	13	20.78	20.90	20.72	21.80
		25	0	20.91	20.75	20.86	21.80

Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130	Tune up
10MHz	QPSK	1	0	23.69	23.86	23.93	24.80
		1	25	23.67	23.79	23.87	24.80
		1	49	23.67	23.70	23.92	24.80
		25	0	22.91	22.94	22.94	23.80
		25	13	23.07	22.94	22.85	23.80
		25	25	23.00	22.98	23.08	23.80
		50	0	23.00	22.92	22.95	23.80
	16QAM	1	0	23.09	23.24	23.05	23.80
		1	25	23.33	23.20	23.52	23.80
		1	49	23.36	23.43	23.51	23.80
		25	0	21.95	21.96	22.01	22.80
		25	13	22.02	22.03	22.02	22.80
		25	25	22.03	21.95	22.01	22.80
		50	0	22.16	21.86	22.01	22.80
	64QAM	1	0	22.27	22.19	22.21	22.80
		1	25	22.30	22.12	22.02	22.80
		1	49	21.91	21.91	22.15	22.80
		25	0	20.99	20.89	21.03	21.80
		25	13	21.12	21.08	21.09	21.80
		25	25	21.17	20.94	20.96	21.80
		50	0	21.09	20.84	20.94	21.80

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LTE Band 12 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
1.4MHz	QPSK	1	0	21.44	21.43	21.51	22.50
		1	2	21.58	21.58	21.45	22.50
		1	5	21.52	21.55	21.42	22.50
		3	0	21.44	21.44	21.46	22.50
		3	2	21.65	21.61	21.58	22.50
		3	3	21.41	21.46	21.42	22.50
		6	0	21.58	21.57	21.56	22.50
	16QAM	1	0	21.78	21.92	21.88	22.50
		1	2	22.04	21.68	21.46	22.50
		1	5	22.01	21.68	21.77	22.50
		3	0	21.56	21.35	21.42	22.50
		3	2	21.61	21.69	21.63	22.50
		3	3	21.53	21.62	21.50	22.50
		6	0	21.68	21.61	21.59	22.50
	64QAM	1	0	21.55	21.80	21.78	22.50
		1	2	22.02	21.46	21.34	22.50
		1	5	21.96	21.43	21.69	22.50
		3	0	21.50	21.21	21.36	22.50
		3	2	21.51	21.67	21.38	22.50
		3	3	21.51	21.45	21.27	22.50
		6	0	20.75	20.75	20.63	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165	Tune up
3MHz	QPSK	1	0	21.63	21.66	21.53	22.50
		1	7	21.46	21.45	21.51	22.50
		1	14	21.54	21.47	21.42	22.50
		8	0	21.69	21.63	21.54	22.50
		8	4	21.65	21.70	21.56	22.50
		8	7	21.63	21.69	21.60	22.50
		15	0	21.62	21.68	21.59	22.50
	16QAM	1	0	21.84	21.98	21.93	22.50
		1	7	21.77	21.89	22.01	22.50
		1	14	21.95	21.79	21.45	22.50
		8	0	21.76	21.82	21.66	22.50
		8	4	21.74	21.71	21.73	22.50
		8	7	21.59	21.74	21.77	22.50
		15	0	21.80	21.72	21.64	22.50
	64QAM	1	0	21.68	21.45	21.70	22.50
		1	7	21.47	21.19	21.30	22.50
		1	14	21.61	21.28	21.43	22.50
		8	0	20.85	20.78	20.72	21.80
		8	4	20.78	20.65	20.94	21.80
		8	7	20.95	20.55	20.61	21.80
		15	0	20.74	20.68	20.61	21.80

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23035	23095	23155	
5MHz	QPSK	1	0	21.63	21.65	21.56	22.50
		1	13	21.51	21.60	21.59	22.50
		1	24	21.57	21.66	21.57	22.50
		12	0	21.74	21.65	21.71	22.50
		12	6	21.71	21.61	21.61	22.50
		12	13	21.62	21.54	21.67	22.50
		25	0	21.66	21.55	21.70	22.50
	16QAM	1	0	21.75	21.95	21.70	22.50
		1	13	21.87	21.94	21.87	22.50
		1	24	21.76	21.66	21.95	22.50
		12	0	21.65	21.73	21.69	22.50
		12	6	21.71	21.78	21.74	22.50
		12	13	21.60	21.73	21.77	22.50
		25	0	21.72	21.64	21.70	22.50
	64QAM	1	0	21.72	21.52	21.63	22.50
		1	13	21.63	21.57	21.42	22.50
		1	24	21.71	21.26	21.51	22.50
		12	0	21.04	20.91	20.82	21.80
		12	6	20.81	20.73	21.05	21.80
		12	13	21.01	20.82	20.97	21.80
		25	0	20.90	20.77	20.85	21.80
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
10MHz	QPSK	1	0	21.29	21.77	21.58	22.50
		1	25	21.52	21.59	21.48	22.50
		1	49	21.61	21.47	21.42	22.50
		25	0	21.61	21.61	21.63	22.50
		25	13	21.65	21.62	21.70	22.50
		25	25	21.59	21.64	21.64	22.50
		50	0	21.72	21.69	21.60	22.50
	16QAM	1	0	21.93	21.73	22.08	22.50
		1	25	22.02	22.06	21.93	22.50
		1	49	21.94	21.78	21.65	22.50
		25	0	21.77	21.75	21.74	22.50
		25	13	21.76	21.60	21.55	22.50
		25	25	21.62	21.77	21.62	22.50
		50	0	21.75	21.67	21.67	22.50
	64QAM	1	0	21.73	21.58	21.85	22.50
		1	25	21.72	21.63	21.61	22.50
		1	49	21.71	21.50	21.64	22.50
		25	0	21.05	21.06	20.95	21.80
		25	13	21.06	20.94	21.05	21.80
		25	25	21.04	20.94	20.98	21.80
		50	0	21.02	20.97	20.97	21.80

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LTE Band 17 Receiver on/Receiver off/ WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/ WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	23.81	23.76	23.92	24.80
		1	13	23.90	23.94	23.88	24.80
		1	24	23.91	23.94	23.83	24.80
		12	0	22.92	22.97	22.96	23.80
		12	6	22.97	22.85	23.02	23.80
		12	13	22.91	22.98	22.99	23.80
		25	0	23.01	22.97	22.97	23.80
	16QAM	1	0	23.07	23.25	23.37	23.80
		1	13	23.04	23.08	23.08	23.80
		1	24	23.38	23.01	23.79	23.80
		12	0	22.00	21.98	21.93	22.80
		12	6	21.89	22.03	22.03	22.80
		12	13	21.95	21.93	22.02	22.80
		25	0	21.95	22.04	21.95	22.80
	64QAM	1	0	21.68	21.72	21.83	22.80
		1	13	21.66	21.71	21.64	22.80
		1	24	21.77	21.79	21.60	22.80
		12	0	20.79	20.90	20.89	21.80
		12	6	20.76	20.82	20.92	21.80
		12	13	20.76	20.90	20.77	21.80
		25	0	20.83	20.83	20.84	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	23.92	23.82	23.76	24.80
		1	25	23.88	23.75	23.79	24.80
		1	49	23.96	23.95	23.84	24.80
		25	0	22.88	22.92	22.95	23.80
		25	13	22.92	23.02	22.84	23.80
		25	25	23.03	22.97	23.00	23.80
		50	0	22.93	23.18	22.97	23.80
	16QAM	1	0	23.07	23.09	23.30	23.80
		1	25	23.27	23.53	23.48	23.80
		1	49	23.32	23.37	22.82	23.80
		25	0	21.95	22.05	21.92	22.80
		25	13	22.11	21.94	22.05	22.80
		25	25	22.03	22.04	22.01	22.80
		50	0	21.91	21.96	21.88	22.80
	64QAM	1	0	21.97	22.31	22.18	22.80
		1	25	22.20	22.26	22.32	22.80
		1	49	21.92	22.16	21.91	22.80
		25	0	20.98	20.94	21.01	21.80
		25	13	21.06	21.16	21.07	21.80
		25	25	21.11	21.05	21.04	21.80
		50	0	20.89	20.92	20.89	21.80

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LTE Band 17 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up
5MHz	QPSK	1	0	21.45	21.53	21.53	22.50
		1	13	21.49	21.54	21.60	22.50
		1	24	21.67	21.62	21.55	22.50
		12	0	21.63	21.66	21.66	22.50
		12	6	21.68	21.61	21.66	22.50
		12	13	21.70	21.66	21.65	22.50
		25	0	21.60	21.66	21.64	22.50
	16QAM	1	0	21.76	21.68	22.01	22.50
		1	13	22.00	21.82	22.00	22.50
		1	24	21.88	21.79	22.00	22.50
		12	0	21.67	21.68	21.75	22.50
		12	6	21.65	21.65	21.63	22.50
		12	13	21.62	21.64	21.71	22.50
		25	0	21.66	21.65	21.63	22.50
	64QAM	1	0	22.01	21.66	21.65	22.50
		1	13	22.01	21.70	21.99	22.50
		1	24	21.99	22.01	21.68	22.50
		12	0	21.02	20.88	21.17	21.80
		12	6	21.15	21.08	21.29	21.80
		12	13	21.33	21.16	21.16	21.80
		25	0	20.99	21.13	21.15	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800	Tune up
10MHz	QPSK	1	0	21.79	21.61	21.80	22.50
		1	25	21.43	21.53	21.68	22.50
		1	49	21.56	21.37	21.53	22.50
		25	0	21.54	21.53	21.60	22.50
		25	13	21.73	21.69	21.66	22.50
		25	25	21.59	21.70	21.67	22.50
		50	0	21.65	21.59	21.59	22.50
	16QAM	1	0	21.88	21.86	21.49	22.50
		1	25	21.78	21.76	21.93	22.50
		1	49	22.02	21.74	21.79	22.50
		25	0	21.67	21.63	21.57	22.50
		25	13	21.69	21.71	21.59	22.50
		25	25	21.72	21.76	21.61	22.50
		50	0	21.52	21.59	21.66	22.50
	64QAM	1	0	21.99	21.44	21.41	22.50
		1	25	22.01	21.59	21.89	22.50
		1	49	21.80	21.78	21.58	22.50
		25	0	20.89	20.88	21.06	21.80
		25	13	20.98	21.08	21.07	21.80
		25	25	21.08	21.05	21.05	21.80
		50	0	20.86	20.90	20.90	21.80

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LTE Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
1.4MHz	QPSK	1	0	23.68	23.77	23.74	24.80
		1	2	23.83	23.81	23.78	24.80
		1	5	23.69	23.72	23.66	24.80
		3	0	23.76	23.79	23.80	24.80
		3	2	23.76	23.90	23.80	24.80
		3	3	23.70	23.77	23.68	24.80
		6	0	22.99	22.82	22.84	23.80
	16QAM	1	0	22.91	23.46	23.28	23.80
		1	2	23.12	23.05	23.34	23.80
		1	5	22.87	23.37	22.81	23.80
		3	0	22.86	23.00	22.85	23.80
		3	2	22.76	23.06	22.84	23.80
		3	3	22.77	22.89	22.83	23.80
		6	0	21.90	21.91	22.01	22.80
	64QAM	1	0	21.54	21.63	21.67	22.80
		1	2	21.63	21.62	21.55	22.80
		1	5	21.44	21.67	21.44	22.80
		3	0	21.72	21.55	21.79	22.80
		3	2	21.71	21.68	21.69	22.80
		3	3	21.70	21.68	21.61	22.80
		6	0	20.84	20.79	20.77	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26865	Channel 27025	Tune up
3MHz	QPSK	1	0	23.88	23.84	23.96	24.80
		1	7	23.77	23.96	23.88	24.80
		1	14	23.83	23.91	23.86	24.80
		8	0	22.85	22.95	22.95	23.80
		8	4	22.97	23.02	22.98	23.80
		8	7	22.85	22.91	22.90	23.80
		15	0	22.92	22.89	22.92	23.80
	16QAM	1	0	22.94	22.95	23.55	23.80
		1	7	23.08	23.46	23.10	23.80
		1	14	22.99	23.01	23.25	23.80
		8	0	21.97	21.96	22.13	22.80
		8	4	22.01	22.14	21.96	22.80
		8	7	21.86	21.97	21.97	22.80
		15	0	21.82	21.91	21.93	22.80
	64QAM	1	0	21.80	21.80	21.92	22.80
		1	7	21.63	21.82	21.85	22.80
		1	14	21.82	21.72	21.73	22.80
		8	0	20.62	20.82	20.71	21.80
		8	4	20.85	20.84	20.95	21.80
		8	7	20.65	20.78	20.74	21.80
		15	0	20.73	20.81	20.89	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
5MHz	QPSK	1	0	23.79	23.89	23.84	24.80
		1	13	23.83	23.95	23.97	24.80
		1	24	23.83	23.93	23.67	24.80
		12	0	22.87	22.92	22.98	23.80
		12	6	22.99	23.00	22.89	23.80
		12	13	22.86	22.92	22.90	23.80
		25	0	22.91	22.91	22.82	23.80
	16QAM	1	0	23.20	23.15	23.08	23.80
		1	13	23.06	22.77	23.19	23.80

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		1	24	23.09	23.12	23.62	23.80
		12	0	21.98	21.91	21.95	22.80
		12	6	22.06	21.88	21.95	22.80
		12	13	21.85	21.97	21.86	22.80
		25	0	21.95	21.92	21.89	22.80
	64QAM	1	0	21.68	21.83	21.69	22.80
		1	13	21.67	21.82	21.96	22.80
		1	24	21.67	21.74	21.49	22.80
		12	0	20.70	20.68	20.82	21.80
		12	6	20.74	20.94	20.65	21.80
		12	13	20.67	20.84	20.84	21.80
		25	0	20.76	20.67	20.75	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 26750	Channel 26865	Channel 26990	Tune up
10MHz	QPSK	1	0	23.72	23.77	23.78	24.80
		1	25	23.68	23.91	24.05	24.80
		1	49	23.62	23.59	23.69	24.80
		25	0	22.81	22.96	22.91	23.80
		25	13	22.87	22.76	23.03	23.80
		25	25	22.90	22.99	22.95	23.80
		50	0	23.02	22.89	22.95	23.80
	16QAM	1	0	23.15	23.61	22.91	23.80
		1	25	23.55	23.09	22.94	23.80
		1	49	23.18	22.94	23.19	23.80
		25	0	21.92	21.98	21.98	22.80
		25	13	22.21	21.78	21.93	22.80
		25	25	21.84	21.94	21.93	22.80
		50	0	22.04	21.94	21.89	22.80
	64QAM	1	0	21.64	21.54	21.55	22.80
		1	25	21.53	21.91	21.98	22.80
		1	49	21.37	21.44	21.45	22.80
		25	0	20.58	20.92	20.77	21.80
		25	13	20.66	20.72	20.98	21.80
		25	25	20.69	20.78	20.85	21.80
		50	0	20.90	20.84	20.71	21.80
Bandwidth	Modulation	RB size	RB offset	Channel 26765	Channel 26865	Channel 26965	Tune up
15MHz	QPSK	1	0	24.02	24.08	24.07	24.80
		1	38	23.91	24.00	23.90	24.80
		1	74	24.09	23.99	23.92	24.80
		36	0	23.15	23.18	23.16	23.80
		36	18	23.09	23.08	23.11	23.80
		36	39	23.19	23.13	23.15	23.80
		75	0	23.07	23.17	23.30	23.80
	16QAM	1	0	23.04	22.90	23.43	23.80
		1	38	22.98	23.35	23.46	23.80
		1	74	23.54	23.19	22.92	23.80
		36	0	22.17	22.23	22.21	22.80
		36	18	22.07	22.08	22.21	22.80
		36	39	22.00	22.12	22.07	22.80
		75	0	22.02	22.07	22.04	22.80
	64QAM	1	0	22.18	22.01	21.95	22.80
		1	38	22.20	22.25	22.13	22.80
		1	74	21.83	22.27	22.14	22.80
		36	0	21.12	21.11	21.17	21.80
		36	18	21.23	21.11	21.01	21.80
		36	39	21.24	21.16	21.19	21.80
		75	0	21.17	21.12	20.98	21.80

Table 16：Conducted Power of LTE

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8.1.3 Conducted Power of Main Antenna(Ant2)

8.1.3.1 Conducted Power of GSM

GSM1900 Receiver on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	24.43	24.45	24.31	25.30	-9.19	15.24	15.26	15.12	16.11
GPRS/ EGPRS (GMSK)	1 TX Slot	24.42	24.43	24.34	25.30	-9.19	15.23	15.24	15.15	16.11
	2 TX Slots	23.43	23.48	23.29	23.80	-6.18	17.25	17.3	17.11	17.62
	3 TX Slots	21.80	21.89	21.75	22.30	-4.42	17.38	17.47	17.33	17.88
	4 TX Slots	20.65	20.68	20.47	21.00	-3.17	17.48	17.51	17.30	17.83
EGPRS (8PSK)	1 TX Slot	22.47	22.44	22.50	23.00	-9.19	13.28	13.25	13.31	13.81
	2 TX Slots	20.29	20.26	20.31	21.00	-6.18	14.11	14.08	14.13	14.82
	3 TX Slots	18.15	18.14	18.17	18.30	-4.42	13.73	13.72	13.75	13.88
	4 TX Slots	16.84	16.83	16.79	17.30	-3.17	13.67	13.66	13.62	14.13
GSM1900 Receiver off										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	25.67	25.67	25.64	26.40	-9.19	16.48	16.48	16.45	17.21
GPRS/ EGPRS (GMSK)	1 TX Slot	25.62	25.68	25.65	26.40	-9.19	16.43	16.49	16.46	17.21
	2 TX Slots	24.61	24.68	24.62	24.90	-6.18	18.43	18.50	18.44	18.72
	3 TX Slots	23.01	22.89	22.87	23.40	-4.42	18.59	18.47	18.45	18.98
	4 TX Slots	21.83	21.89	21.82	22.50	-3.17	18.66	18.72	18.65	**19.33**
EGPRS (8PSK)	1 TX Slot	22.57	22.60	22.59	23.00	-9.19	13.38	13.41	13.40	13.81
	2 TX Slots	21.23	21.25	21.43	22.00	-6.18	15.05	15.07	15.25	15.82
	3 TX Slots	19.05	19.08	19.10	19.40	-4.42	14.63	14.66	14.68	14.98
	4 TX Slots	18.04	18.09	18.11	18.40	-3.17	14.87	14.92	14.94	15.23
GSM1900 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	22.70	22.82	22.53	23.60	-9.19	13.51	13.63	13.34	14.41
GPRS/ EGPRS (GMSK)	1 TX Slot	22.64	22.79	22.47	23.60	-9.19	13.45	13.60	13.28	14.41
	2 TX Slots	21.36	21.33	21.39	22.10	-6.18	15.18	15.15	15.21	15.92
	3 TX Slots	20.38	20.36	20.35	20.60	-4.42	15.96	15.94	15.93	16.18
	4 TX Slots	19.15	19.34	19.08	20.00	-3.17	15.98	16.17	15.91	16.83
EGPRS (8PSK)	1 TX Slot	20.71	20.63	20.61	21.00	-9.19	11.52	11.44	11.42	11.81
	2 TX Slots	18.42	18.47	18.43	19.00	-6.18	12.24	12.29	12.25	12.82
	3 TX Slots	15.92	15.95	15.94	16.60	-4.42	11.50	11.53	11.52	12.18
	4 TX Slots	15.33	15.30	15.21	15.60	-3.17	12.16	12.13	12.04	12.43
GSM1900 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	23.66	23.62	23.61	24.70	-9.19	14.47	14.43	14.42	15.51
GPRS/	1 TX Slot	23.59	23.60	23.64	24.70	-9.19	14.40	14.41	14.45	15.51

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EGPRS (GMSK)	2 TX Slots	22.71	22.75	22.67	23.20	-6.18	16.53	16.57	16.49	17.02
	3 TX Slots	21.13	21.05	21.04	21.70	-4.42	16.71	16.63	16.62	17.28
	4 TX Slots	20.57	20.58	20.53	21.20	-3.17	17.40	17.41	17.36	18.03
EGPRS (8PSK)	1 TX Slot	21.69	21.73	21.71	22.00	-9.19	12.50	12.54	12.52	12.81
	2 TX Slots	19.46	19.49	19.42	20.00	-6.18	13.28	13.31	13.24	13.82
	3 TX Slots	17.35	17.53	17.32	17.70	-4.42	12.93	13.11	12.90	13.28
	4 TX Slots	15.93	15.99	15.94	16.70	-3.17	12.76	12.82	12.77	13.53

GSM1900 WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on

Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	23.71	23.91	23.60	24.60	-9.19	14.52	14.72	14.41	15.41
GPRS/ EGPRS (GMSK)	1 TX Slot	23.68	23.85	23.68	24.60	-9.19	14.49	14.66	14.49	15.41
	2 TX Slots	22.46	22.41	22.38	23.10	-6.18	16.28	16.23	16.2	16.92
	3 TX Slots	20.81	20.94	20.70	21.60	-4.42	16.39	16.52	16.28	17.18
	4 TX Slots	20.30	20.41	20.37	21.00	-3.17	17.13	17.24	17.2	17.83
EGPRS (8PSK)	1 TX Slot	21.55	21.52	21.54	22.00	-9.19	12.36	12.33	12.35	12.81
	2 TX Slots	19.43	19.47	19.37	20.00	-6.18	13.25	13.29	13.19	13.82
	3 TX Slots	17.25	17.29	17.20	17.60	-4.42	12.83	12.87	12.78	13.18
	4 TX Slots	15.84	15.86	15.84	16.60	-3.17	12.67	12.69	12.67	13.43

GSM1900 WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off

Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel		512	661	810			512	661	810	
GSM(GMSK)	GSM	24.70	24.73	24.72	25.70	-9.19	15.51	15.54	15.53	16.51
GPRS/ EGPRS (GMSK)	1 TX Slot	24.61	24.68	24.71	25.70	-9.19	15.42	15.49	15.52	16.51
	2 TX Slots	23.42	23.43	23.40	24.20	-6.18	17.24	17.25	17.22	18.02
	3 TX Slots	22.01	22.02	22.04	22.70	-4.42	17.59	17.60	17.62	18.28
	4 TX Slots	20.83	20.70	20.75	21.20	-3.17	17.66	17.53	17.58	18.03
EGPRS (8PSK)	1 TX Slot	22.85	22.84	22.73	23.00	-9.19	13.66	13.65	13.54	13.81
	2 TX Slots	20.73	20.74	20.71	21.00	-6.18	14.55	14.56	14.53	14.82
	3 TX Slots	18.56	18.51	18.43	18.70	-4.42	14.14	14.09	14.01	14.28
	4 TX Slots	17.51	17.50	17.47	17.70	-3.17	14.34	14.33	14.30	14.53

Table 17：Conducted Power of GSM

Note:

1）. CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

2）. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used

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8.1.3.2 Conducted Power of WCDMA

WCDMA Band II Receiver on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	14.56	14.63	14.54	15.30
	12.2kbps AMR	14.53	14.54	14.52	15.30
HSDPA	Subtest 1	14.66	14.69	14.67	14.80
	Subtest 2	14.61	14.66	14.61	14.80
	Subtest 3	14.10	14.18	14.17	14.30
	Subtest 4	14.10	14.18	14.17	14.30
HSUPA	Subtest 1	13.61	13.60	13.67	14.80
	Subtest 2	11.60	11.60	11.62	12.30
	Subtest 3	12.63	12.60	12.65	13.80
	Subtest 4	11.61	11.66	11.65	12.30
	Subtest 5	14.60	14.60	14.70	14.80
DC-HSDPA	Subtest 1	14.62	14.70	14.63	14.80
	Subtest 2	14.60	14.64	14.55	14.80
	Subtest 3	14.09	14.19	14.13	14.30
	Subtest 4	14.11	14.21	14.12	14.30
HSPA+	16QAM	14.55	14.64	14.63	14.80
WCDMA Band II Receiver off					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	17.47	17.48	17.51	18.20
	12.2kbps AMR	17.41	17.46	17.47	18.20
HSDPA	Subtest 1	17.46	17.46	17.45	17.70
	Subtest 2	17.42	17.20	17.40	17.70
	Subtest 3	17.17	17.15	17.03	17.20
	Subtest 4	17.18	17.14	17.00	17.20
HSUPA	Subtest 1	16.71	16.70	16.76	17.70
	Subtest 2	14.45	14.49	14.54	15.20
	Subtest 3	15.52	15.52	15.53	16.70
	Subtest 4	14.47	14.57	14.57	15.20
	Subtest 5	17.50	17.30	17.50	17.70
DC-HSDPA	Subtest 1	17.45	17.48	17.46	17.70
	Subtest 2	17.24	17.47	17.41	17.70
	Subtest 3	17.18	17.17	17.04	17.20
	Subtest 4	17.13	17.09	17.04	17.20
HSPA+	16QAM	17.48	17.45	17.49	17.70

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WCDMA Band II WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	12.73	12.81	12.84	13.50
	12.2kbps AMR	12.71	12.84	12.80	13.50
HSDPA	Subtest 1	12.78	12.79	12.83	13.00
	Subtest 2	12.70	12.73	12.80	13.00
	Subtest 3	12.28	12.32	12.33	12.50
	Subtest 4	12.27	12.31	12.29	12.50
HSUPA	Subtest 1	11.81	11.77	11.86	13.00
	Subtest 2	9.76	9.85	9.87	10.50
	Subtest 3	10.76	10.80	10.89	12.00
	Subtest 4	9.78	9.81	9.86	10.50
	Subtest 5	12.80	12.80	12.90	13.00
DC-HSDPA	Subtest 1	12.79	12.79	12.82	13.00
	Subtest 2	12.73	12.76	12.75	13.00
	Subtest 3	12.25	12.30	12.29	12.50
	Subtest 4	12.28	12.35	12.24	12.50
HSPA+	16QAM	12.80	12.75	12.82	13.00

WCDMA Band II WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	15.57	15.68	15.73	16.40
	12.2kbps AMR	15.58	15.48	15.70	16.40
HSDPA	Subtest 1	15.68	15.71	15.74	15.90
	Subtest 2	15.61	15.70	15.66	15.90
	Subtest 3	15.15	15.22	15.28	15.40
	Subtest 4	15.16	15.23	15.27	15.40
HSUPA	Subtest 1	15.67	15.68	15.75	15.90
	Subtest 2	13.32	13.31	13.35	13.40
	Subtest 3	14.57	14.59	14.51	14.90
	Subtest 4	13.30	13.10	13.10	13.40
	Subtest 5	15.50	15.50	15.60	15.90
DC-HSDPA	Subtest 1	15.72	15.68	15.75	15.90
	Subtest 2	15.66	15.63	15.57	15.90
	Subtest 3	15.10	15.18	15.24	15.40
	Subtest 4	15.17	15.27	15.24	15.40
HSPA+	16QAM	15.72	15.68	15.74	15.90

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WCDMA Band II WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	13.74	13.76	13.81	14.50
	12.2kbps AMR	13.72	13.74	13.82	14.50
HSDPA	Subtest 1	13.87	13.86	13.86	14.00
	Subtest 2	13.82	13.83	13.81	14.00
	Subtest 3	13.34	13.33	13.37	13.50
	Subtest 4	13.34	13.33	13.32	13.50
HSUPA	Subtest 1	12.79	12.80	12.89	14.00
	Subtest 2	10.80	10.79	10.81	11.50
	Subtest 3	11.76	11.85	11.90	13.00
	Subtest 4	10.78	10.83	10.84	11.50
	Subtest 5	13.80	13.90	13.90	14.00
DC-HSDPA	Subtest 1	13.79	13.86	13.87	14.00
	Subtest 2	13.74	13.80	13.80	14.00
	Subtest 3	13.39	13.36	13.38	13.50
	Subtest 4	13.39	13.37	13.35	13.50
HSPA+	16QAM	13.85	13.84	13.86	14.00

WCDMA Band II WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	16.66	16.63	16.72	17.40
	12.2kbps AMR	16.62	16.60	16.57	17.40
HSDPA	Subtest 1	16.72	16.79	16.80	16.90
	Subtest 2	16.69	16.76	16.74	16.90
	Subtest 3	16.20	16.29	16.32	16.40
	Subtest 4	16.20	16.23	16.33	16.40
HSUPA	Subtest 1	15.88	15.87	15.92	16.90
	Subtest 2	13.66	13.72	13.70	14.40
	Subtest 3	14.66	14.56	14.70	15.90
	Subtest 4	13.65	13.70	13.76	14.40
	Subtest 5	16.70	16.70	16.70	16.90
DC-HSDPA	Subtest 1	16.68	16.80	16.82	16.90
	Subtest 2	16.62	16.77	16.80	16.90
	Subtest 3	16.20	16.25	16.32	16.40
	Subtest 4	16.23	16.19	16.37	16.40
HSPA+	16QAM	16.68	16.74	16.76	16.90

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WCDMA Band IV Receiver on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	15.12	15.09	15.02	15.80
	12.2kbps AMR	15.10	15.04	15.07	15.80
HSDPA	Subtest 1	15.17	15.13	15.06	15.30
	Subtest 2	15.14	15.11	15.02	15.30
	Subtest 3	14.67	14.64	14.55	14.80
	Subtest 4	14.62	14.63	14.56	14.80
HSUPA	Subtest 1	14.62	14.12	14.00	15.30
	Subtest 2	12.13	12.11	12.05	12.80
	Subtest 3	13.13	13.19	13.03	14.30
	Subtest 4	12.09	12.13	11.99	12.80
	Subtest 5	15.10	15.20	15.00	15.30
DC-HSDPA	Subtest 1	15.15	15.18	15.04	15.30
	Subtest 2	15.10	15.15	15.00	15.30
	Subtest 3	14.69	14.65	14.50	14.80
	Subtest 4	14.60	14.63	14.61	14.80
HSPA+	16QAM	15.10	15.14	15.05	15.30
WCDMA Band IV Receiver off					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	17.59	17.63	17.49	18.30
	12.2kbps AMR	17.52	17.61	17.43	18.30
HSDPA	Subtest 1	17.52	17.57	17.60	17.80
	Subtest 2	17.50	17.52	17.57	17.80
	Subtest 3	17.02	17.03	17.09	17.30
	Subtest 4	17.00	17.14	17.03	17.30
HSUPA	Subtest 1	16.99	16.72	16.61	17.80
	Subtest 2	14.62	14.63	14.48	15.30
	Subtest 3	15.63	15.63	15.53	16.80
	Subtest 4	14.67	14.64	14.48	15.30
	Subtest 5	17.70	17.70	17.50	17.80
DC-HSDPA	Subtest 1	17.53	17.58	17.63	17.80
	Subtest 2	17.48	17.55	17.56	17.80
	Subtest 3	16.99	17.02	17.11	17.30
	Subtest 4	16.98	17.17	17.05	17.30
HSPA+	16QAM	17.54	17.53	17.63	17.80

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WCDMA Band IV WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	13.32	13.34	13.33	14.10
	12.2kbps AMR	13.30	13.24	13.24	14.10
HSDPA	Subtest 1	13.44	13.46	13.35	13.60
	Subtest 2	13.39	13.44	13.33	13.60
	Subtest 3	12.97	12.92	12.79	13.10
	Subtest 4	12.93	12.96	12.81	13.10
HSUPA	Subtest 1	12.92	12.45	12.31	13.60
	Subtest 2	10.48	10.43	10.33	11.10
	Subtest 3	11.40	11.40	11.33	12.60
	Subtest 4	10.48	10.40	10.30	11.10
	Subtest 5	13.40	13.06	13.32	13.60
DC-HSDPA	Subtest 1	13.40	13.40	13.30	13.60
	Subtest 2	13.37	13.31	13.25	13.60
	Subtest 3	12.99	12.87	12.82	13.10
	Subtest 4	12.91	12.94	12.85	13.10
HSPA+	16QAM	13.45	13.39	13.31	13.60
WCDMA Band IV WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	15.83	15.74	15.71	16.50
	12.2kbps AMR	15.82	15.71	15.64	16.50
HSDPA	Subtest 1	15.87	15.88	15.77	16.00
	Subtest 2	15.84	15.85	15.74	16.00
	Subtest 3	15.39	15.33	15.23	15.50
	Subtest 4	15.39	15.32	15.22	15.50
HSUPA	Subtest 1	15.18	14.93	14.79	16.00
	Subtest 2	12.84	12.80	12.72	13.50
	Subtest 3	13.80	13.75	13.69	15.00
	Subtest 4	12.79	12.81	12.71	13.50
	Subtest 5	15.90	15.80	15.70	16.00
DC-HSDPA	Subtest 1	15.84	15.88	15.78	16.00
	Subtest 2	15.81	15.80	15.75	16.00
	Subtest 3	15.39	15.32	15.27	15.50
	Subtest 4	15.43	15.34	15.21	15.50
HSPA+	16QAM	15.89	15.78	15.75	16.00

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WCDMA Band IV WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	14.32	14.35	14.26	15.10
	12.2kbps AMR	14.30	14.31	14.24	15.10
HSDPA	Subtest 1	14.44	14.48	14.37	14.60
	Subtest 2	14.41	14.47	14.36	14.60
	Subtest 3	13.96	13.95	13.86	14.10
	Subtest 4	13.97	13.98	13.84	14.10
HSUPA	Subtest 1	13.94	13.43	13.29	14.60
	Subtest 2	11.44	11.47	11.32	12.10
	Subtest 3	12.44	12.39	12.31	13.60
	Subtest 4	11.45	11.43	11.34	12.10
	Subtest 5	14.51	14.54	14.30	14.60
DC-HSDPA	Subtest 1	14.48	14.52	14.33	14.60
	Subtest 2	14.39	14.48	14.30	14.60
	Subtest 3	13.93	13.95	13.82	14.10
	Subtest 4	14.00	13.98	13.86	14.10
HSPA+	16QAM	14.42	14.46	14.40	14.60
WCDMA Band IV WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	16.78	16.82	16.72	17.50
	12.2kbps AMR	16.73	16.80	16.70	17.50
HSDPA	Subtest 1	16.89	16.88	16.74	17.00
	Subtest 2	16.87	16.85	16.73	17.00
	Subtest 3	16.36	16.36	16.24	16.50
	Subtest 4	16.34	16.30	16.22	16.50
HSUPA	Subtest 1	16.19	15.95	15.83	17.00
	Subtest 2	13.84	13.83	13.73	14.50
	Subtest 3	14.85	14.83	14.68	16.00
	Subtest 4	13.85	13.84	13.71	14.50
	Subtest 5	16.80	16.80	16.80	17.00
DC-HSDPA	Subtest 1	16.80	16.86	16.77	17.00
	Subtest 2	16.76	16.84	16.76	17.00
	Subtest 3	16.40	16.33	16.26	16.50
	Subtest 4	16.30	16.26	16.25	16.50
HSPA+	16QAM	16.79	16.89	16.74	17.00

Table 18：Conducted Power of WCDMA

Note:

3) when the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

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8.1.3.3 Conducted Power of LTE

LTE Band 2 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	14.80	14.90	14.91	16.00
		1	2	14.87	15.02	15.20	16.00
		1	5	14.91	14.81	14.97	16.00
		3	0	14.84	14.91	15.01	16.00
		3	2	14.73	14.93	14.93	16.00
		3	3	14.75	14.83	14.91	16.00
		6	0	14.88	14.88	14.96	16.00
	16QAM	1	0	15.06	15.31	15.48	16.00
		1	2	15.25	15.13	15.36	16.00
		1	5	15.26	15.31	15.15	16.00
		3	0	15.15	15.30	15.21	16.00
		3	2	15.04	15.31	15.20	16.00
		3	3	15.09	15.13	15.34	16.00
		6	0	14.98	15.16	15.14	16.00
	64QAM	1	0	14.99	15.30	15.47	16.00
		1	2	15.04	14.98	15.19	16.00
		1	5	15.16	15.29	15.04	16.00
		3	0	15.03	15.22	15.17	16.00
		3	2	14.81	15.07	15.03	16.00
		3	3	15.06	14.93	15.31	16.00
		6	0	14.88	15.07	15.12	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	14.97	14.94	15.10	16.00
		1	7	15.16	14.92	14.98	16.00
		1	14	14.81	14.96	15.03	16.00
		8	0	15.01	14.98	15.10	16.00
		8	4	14.89	15.01	15.09	16.00
		8	7	14.89	15.02	15.11	16.00
		15	0	14.95	15.06	15.06	16.00
	16QAM	1	0	15.45	15.22	15.35	16.00
		1	7	15.40	15.46	15.07	16.00
		1	14	15.27	15.10	15.45	16.00
		8	0	15.04	15.22	15.27	16.00
		8	4	15.17	15.30	15.36	16.00
		8	7	15.11	15.19	15.37	16.00
		15	0	15.12	15.20	15.27	16.00
	64QAM	1	0	15.31	15.01	15.29	16.00
		1	7	15.40	15.29	15.05	16.00
		1	14	15.07	15.42	15.33	16.00
		8	0	14.92	15.00	15.24	16.00
		8	4	15.10	15.16	15.14	16.00
		8	7	15.03	15.13	15.37	16.00
		15	0	15.09	14.97	15.13	16.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	14.86	14.97	15.00	16.00
		1	13	15.13	15.06	15.12	16.00
		1	24	14.90	14.88	15.09	16.00
		12	0	14.99	14.99	15.01	16.00
		12	6	15.02	15.06	15.11	16.00
		12	13	14.99	15.03	15.13	16.00
		25	0	15.03	15.01	15.03	16.00
	16QAM	1	0	14.94	15.02	15.36	16.00
		1	13	15.36	15.05	15.46	16.00
		1	24	15.14	15.34	15.29	16.00
		12	0	15.11	15.20	15.16	16.00
		12	6	15.10	15.13	15.13	16.00
		12	13	15.12	15.19	15.16	16.00
		25	0	15.14	15.13	15.13	16.00
	64QAM	1	0	14.90	14.96	15.30	16.00
		1	13	15.11	15.35	15.42	16.00
		1	24	15.00	15.40	15.17	16.00
		12	0	14.86	15.06	14.94	16.00
		12	6	15.06	14.99	14.88	16.00
		12	13	14.93	15.01	15.16	16.00
		25	0	14.89	15.10	14.94	16.00

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	15.08	15.12	15.30	16.00
		1	25	15.02	15.04	15.17	16.00
		1	49	15.05	15.06	15.13	16.00
		25	0	14.95	14.96	15.00	16.00
		25	13	15.05	15.06	15.13	16.00
		25	25	15.05	15.10	15.12	16.00
		50	0	15.04	15.08	15.11	16.00
	16QAM	1	0	15.20	15.45	15.54	16.00
		1	25	15.14	15.65	15.15	16.00
		1	49	15.17	15.36	15.21	16.00
		25	0	14.95	15.14	15.09	16.00
		25	13	15.23	15.11	15.20	16.00
		25	25	15.13	15.34	15.26	16.00
		50	0	15.09	15.17	15.08	16.00
	64QAM	1	0	15.15	15.31	15.35	16.00
		1	25	15.13	15.62	15.63	16.00
		1	49	15.01	15.30	15.18	16.00
		25	0	14.74	15.02	14.84	16.00
		25	13	15.19	15.09	15.10	16.00
		25	25	14.93	15.18	15.15	16.00
		50	0	14.94	15.17	15.01	16.00

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	14.92	15.01	15.03	16.00
		1	38	15.11	14.98	14.97	16.00
		1	74	15.06	15.02	14.96	16.00
		36	0	15.12	15.15	15.24	16.00
		36	18	15.19	15.17	15.14	16.00
		36	39	15.20	15.20	15.19	16.00
		75	0	15.16	15.23	15.19	16.00
	16QAM	1	0	15.34	15.28	15.30	16.00
		1	38	15.35	15.46	15.30	16.00
		1	74	15.45	15.40	15.41	16.00
		36	0	15.25	15.28	15.25	16.00
		36	18	15.30	15.38	15.39	16.00
		36	39	15.37	15.36	15.32	16.00
		75	0	15.31	15.36	15.32	16.00
	64QAM	1	0	15.19	15.04	15.01	16.00
		1	38	15.50	15.41	15.27	16.00
		1	74	15.40	15.24	15.28	16.00
		36	0	15.01	15.23	15.00	16.00
		36	18	15.20	15.37	15.32	16.00
		36	39	15.28	15.15	15.26	16.00
		75	0	15.23	15.12	15.26	16.00

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	15.16	15.03	15.22	16.00
		1	50	15.04	15.20	14.95	16.00
		1	99	15.06	14.79	15.04	16.00
		50	0	15.19	15.23	15.11	16.00
		50	25	15.16	15.22	15.14	16.00
		50	50	15.07	15.26	15.18	16.00
		100	0	15.15	15.23	15.26	16.00
	16QAM	1	0	15.49	15.46	15.09	16.00
		1	50	15.39	15.39	15.39	16.00
		1	99	15.35	15.40	15.30	16.00
		50	0	15.27	15.30	15.19	16.00
		50	25	15.34	15.35	15.18	16.00
		50	50	15.37	15.44	15.30	16.00
		100	0	15.27	15.35	15.27	16.00
	64QAM	1	0	14.77	15.11	15.31	16.00
		1	50	15.31	15.09	15.31	16.00
		1	99	15.47	15.30	15.27	16.00
		50	0	15.16	15.10	15.16	16.00
		50	25	15.26	15.20	15.19	16.00
		50	50	15.19	15.15	15.24	16.00
		100	0	15.20	15.17	15.09	16.00

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LTE Band 2 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	18.13	18.06	18.16	19.10
		1	2	18.14	18.06	18.21	19.10
		1	5	17.86	18.14	18.15	19.10
		3	0	18.07	18.11	18.16	19.10
		3	2	18.10	18.11	18.17	19.10
		3	3	18.13	18.03	18.23	19.10
		6	0	18.17	18.17	18.17	19.10
	16QAM	1	0	18.20	18.21	18.25	19.10
		1	2	18.40	18.55	18.25	19.10
		1	5	18.47	18.07	18.26	19.10
		3	0	18.29	18.22	18.04	19.10
		3	2	17.99	18.17	18.23	19.10
		3	3	18.22	18.01	18.25	19.10
		6	0	18.22	18.26	18.24	19.10
	64QAM	1	0	18.26	18.17	18.29	19.10
		1	2	18.28	18.29	18.43	19.10
		1	5	17.87	18.27	18.23	19.10
		3	0	18.20	18.23	18.36	19.10
		3	2	18.10	18.17	18.38	19.10
		3	3	18.30	18.05	18.27	19.10
		6	0	18.28	18.27	18.26	19.10
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	18.18	18.19	18.17	19.10
		1	7	18.26	18.04	18.20	19.10
		1	14	18.18	18.28	18.30	19.10
		8	0	18.16	18.22	18.30	19.10
		8	4	18.26	18.28	18.24	19.10
		8	7	18.18	18.30	18.30	19.10
		15	0	18.19	18.24	18.30	19.10
	16QAM	1	0	18.39	18.57	18.20	19.10
		1	7	18.21	18.51	18.48	19.10
		1	14	18.33	18.18	18.22	19.10
		8	0	18.24	18.21	18.37	19.10
		8	4	18.28	18.24	18.43	19.10
		8	7	18.29	18.27	18.32	19.10
		15	0	18.18	18.28	18.30	19.10
	64QAM	1	0	18.21	18.39	18.17	19.10
		1	7	18.31	18.20	18.25	19.10
		1	14	18.28	18.30	18.40	19.10
		8	0	18.38	18.24	18.49	19.10
		8	4	18.38	18.29	18.48	19.10
		8	7	18.31	18.41	18.54	19.10
		15	0	18.43	18.42	18.32	19.10

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	17.98	18.13	18.08	19.10
		1	13	18.14	18.16	18.34	19.10
		1	24	18.04	18.18	18.23	19.10
		12	0	18.21	18.19	18.23	19.10
		12	6	18.25	18.25	18.32	19.10
		12	13	18.19	18.24	18.33	19.10
		25	0	18.21	18.22	18.17	19.10
	16QAM	1	0	18.27	18.34	18.41	19.10
		1	13	18.53	18.22	18.39	19.10
		1	24	18.38	18.50	18.35	19.10
		12	0	18.17	18.23	18.22	19.10
		12	6	18.25	18.31	18.15	19.10
		12	13	18.34	18.22	18.24	19.10
		25	0	18.13	18.27	18.35	19.10
	64QAM	1	0	18.00	18.18	18.11	19.10
		1	13	18.38	18.21	18.43	19.10
		1	24	18.26	18.31	18.33	19.10
		12	0	18.33	18.24	18.36	19.10
		12	6	18.45	18.50	18.44	19.10
		12	13	18.44	18.48	18.53	19.10
		25	0	18.23	18.43	18.41	19.10

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	18.01	18.17	18.12	19.10
		1	25	17.96	18.08	17.99	19.10
		1	49	17.91	18.15	18.30	19.10
		25	0	18.20	18.17	18.18	19.10
		25	13	18.19	18.26	18.28	19.10
		25	25	18.28	18.31	18.33	19.10
		50	0	18.24	18.29	18.14	19.10
	16QAM	1	0	18.49	18.47	18.35	19.10
		1	25	18.41	18.43	18.43	19.10
		1	49	18.27	18.61	18.51	19.10
		25	0	18.35	18.01	18.18	19.10
		25	13	18.21	18.38	18.25	19.10
		25	25	18.24	18.49	18.26	19.10
		50	0	18.29	18.30	18.19	19.10
	64QAM	1	0	18.20	18.21	18.37	19.10
		1	25	18.02	18.20	18.06	19.10
		1	49	18.05	18.37	18.46	19.10
		25	0	18.35	18.30	18.21	19.10
		25	13	18.23	18.30	18.33	19.10
		25	25	18.29	18.31	18.37	19.10
		50	0	18.35	18.40	18.30	19.10

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	18.18	18.29	18.30	19.10
		1	38	18.37	18.23	18.31	19.10
		1	74	18.25	18.25	18.52	19.10
		36	0	18.36	18.40	18.29	19.10
		36	18	18.46	18.37	18.61	19.10
		36	39	18.53	18.42	18.45	19.10
		75	0	18.44	18.38	18.48	19.10
	16QAM	1	0	18.51	18.50	18.68	19.10
		1	38	18.74	18.77	18.79	19.10
		1	74	18.68	18.42	18.77	19.10
		36	0	18.35	18.38	18.36	19.10
		36	18	18.39	18.37	18.45	19.10
		36	39	18.32	18.48	18.49	19.10
		75	0	18.39	18.50	18.47	19.10
	64QAM	1	0	18.21	18.45	18.31	19.10
		1	38	18.55	18.33	18.53	19.10
		1	74	18.45	18.28	18.54	19.10
		36	0	18.56	18.49	18.51	19.10
		36	18	18.52	18.47	18.73	19.10
		36	39	18.59	18.66	18.48	19.10
		75	0	18.66	18.46	18.54	19.10
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	18.30	18.31	18.24	19.10
		1	50	18.37	18.38	18.26	19.10
		1	99	18.31	18.26	18.61	19.10
		50	0	18.34	18.40	18.29	19.10
		50	25	18.45	18.49	18.42	19.10
		50	50	18.35	18.44	18.49	19.10
		100	0	18.48	18.42	18.34	19.10
	16QAM	1	0	18.69	18.55	18.70	19.10
		1	50	18.88	18.75	18.83	19.10
		1	99	18.44	18.47	18.58	19.10
		50	0	18.38	18.44	18.31	19.10
		50	25	18.39	18.53	18.37	19.10
		50	50	18.56	18.45	18.41	19.10
		100	0	18.40	18.44	18.39	19.10
	64QAM	1	0	18.54	18.20	18.31	19.10
		1	50	18.30	18.04	18.54	19.10
		1	99	18.43	18.37	18.09	19.10
		50	0	18.20	18.22	18.28	19.10
		50	25	18.32	18.37	18.23	19.10
		50	50	18.38	18.38	18.38	19.10
		100	0	18.23	18.33	18.39	19.10

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LTE Band 2 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	13.06	13.01	13.14	14.30
		1	2	13.24	13.21	13.29	14.30
		1	5	13.01	13.20	13.25	14.30
		3	0	13.08	13.11	13.19	14.30
		3	2	12.92	13.08	13.14	14.30
		3	3	13.07	13.08	13.11	14.30
		6	0	13.13	13.13	13.19	14.30
	16QAM	1	0	13.50	13.74	13.49	14.30
		1	2	13.24	13.20	13.37	14.30
		1	5	13.10	13.64	13.40	14.30
		3	0	13.16	13.12	13.20	14.30
		3	2	13.10	13.23	13.15	14.30
		3	3	12.98	13.18	13.09	14.30
		6	0	13.20	13.42	13.53	14.30
	64QAM	1	0	13.11	13.22	13.31	14.30
		1	2	13.26	13.24	13.30	14.30
		1	5	13.11	13.20	13.44	14.30
		3	0	13.32	13.32	13.26	14.30
		3	2	13.16	13.23	13.30	14.30
		3	3	13.30	13.26	13.21	14.30
		6	0	13.25	13.31	13.35	14.30
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	13.43	13.32	13.46	14.30
		1	7	12.98	13.13	13.33	14.30
		1	14	13.19	13.37	13.19	14.30
		8	0	13.22	13.26	13.40	14.30
		8	4	13.22	13.30	13.33	14.30
		8	7	13.23	13.28	13.38	14.30
		15	0	13.24	13.30	13.35	14.30
	16QAM	1	0	13.53	13.52	13.28	14.30
		1	7	13.44	13.17	13.26	14.30
		1	14	13.53	13.36	13.45	14.30
		8	0	13.28	13.33	13.33	14.30
		8	4	13.39	13.33	13.37	14.30
		8	7	13.32	13.25	13.45	14.30
		15	0	13.20	13.24	13.47	14.30
	64QAM	1	0	13.44	13.47	13.66	14.30
		1	7	12.99	13.34	13.39	14.30
		1	14	13.35	13.39	13.38	14.30
		8	0	13.36	13.38	13.61	14.30
		8	4	13.30	13.43	13.34	14.30
		8	7	13.29	13.45	13.45	14.30
		15	0	13.45	13.31	13.50	14.30

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	13.21	13.12	13.31	14.30
		1	13	13.08	13.38	13.33	14.30
		1	24	13.16	13.21	13.36	14.30
		12	0	13.27	13.22	13.32	14.30
		12	6	13.25	13.35	13.28	14.30
		12	13	13.20	13.26	13.39	14.30
		25	0	13.23	13.29	13.33	14.30
	16QAM	1	0	13.31	13.23	13.45	14.30
		1	13	13.29	13.33	13.65	14.30
		1	24	13.73	13.45	13.71	14.30
		12	0	13.24	13.32	13.30	14.30
		12	6	13.29	13.36	13.33	14.30
		12	13	13.32	13.43	13.28	14.30
		25	0	13.22	13.33	13.24	14.30
	64QAM	1	0	13.06	13.11	13.38	14.30
		1	13	13.25	13.25	13.52	14.30
		1	24	13.02	13.31	13.27	14.30
		12	0	13.23	13.13	13.30	14.30
		12	6	13.02	13.10	13.30	14.30
		12	13	13.32	13.27	13.32	14.30
		25	0	13.18	13.36	13.44	14.30
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	13.20	13.30	13.10	14.30
		1	25	12.90	13.18	13.15	14.30
		1	49	13.26	12.99	12.97	14.30
		25	0	13.17	13.23	13.22	14.30
		25	13	13.26	13.33	13.29	14.30
		25	25	13.29	13.32	13.37	14.30
		50	0	13.23	13.34	13.29	14.30
	16QAM	1	0	13.42	13.98	13.12	14.30
		1	25	13.27	13.50	13.46	14.30
		1	49	13.25	13.75	13.87	14.30
		25	0	13.11	13.18	13.30	14.30
		25	13	13.31	13.36	13.35	14.30
		25	25	13.18	13.21	13.35	14.30
		50	0	13.24	13.31	13.30	14.30
	64QAM	1	0	13.34	13.40	13.11	14.30
		1	25	12.97	13.31	13.18	14.30
		1	49	13.36	13.09	13.20	14.30
		25	0	13.42	13.24	13.24	14.30
		25	13	13.37	13.36	13.46	14.30
		25	25	13.35	13.40	13.38	14.30
		50	0	13.46	13.39	13.38	14.30

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	13.29	13.19	13.46	14.30
		1	38	13.18	13.27	13.23	14.30
		1	74	13.24	13.30	13.29	14.30
		36	0	13.28	13.37	13.37	14.30
		36	18	13.43	13.40	13.40	14.30
		36	39	13.37	13.43	13.43	14.30
		75	0	13.42	13.44	13.41	14.30
	16QAM	1	0	13.72	13.57	13.85	14.30
		1	38	13.60	13.95	13.58	14.30
		1	74	13.66	13.56	13.77	14.30
		36	0	13.27	13.43	13.45	14.30
		36	18	13.37	13.37	13.32	14.30
		36	39	13.38	13.49	13.50	14.30
		75	0	13.35	13.49	13.32	14.30
	64QAM	1	0	13.39	13.44	13.61	14.30
		1	38	13.25	13.50	13.40	14.30
		1	74	13.34	13.32	13.54	14.30
		36	0	13.44	13.39	13.46	14.30
		36	18	13.59	13.44	13.63	14.30
		36	39	13.40	13.56	13.57	14.30
		75	0	13.67	13.57	13.49	14.30
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	13.25	13.37	13.23	14.30
		1	50	13.19	13.31	13.17	14.30
		1	99	13.18	13.17	13.29	14.30
		50	0	13.43	13.50	13.42	14.30
		50	25	13.44	13.53	13.49	14.30
		50	50	13.36	13.42	13.47	14.30
		100	0	13.47	13.42	13.45	14.30
	16QAM	1	0	13.64	13.46	13.78	14.30
		1	50	13.70	13.52	13.45	14.30
		1	99	13.37	13.56	13.50	14.30
		50	0	13.40	13.55	13.36	14.30
		50	25	13.49	13.48	13.38	14.30
		50	50	13.43	13.54	13.42	14.30
		100	0	13.42	13.46	13.51	14.30
	64QAM	1	0	13.35	13.44	13.47	14.30
		1	50	13.20	13.46	13.22	14.30
		1	99	13.23	13.21	13.32	14.30
		50	0	13.54	13.55	13.67	14.30
		50	25	13.63	13.55	13.66	14.30
		50	50	13.59	13.67	13.58	14.30
		100	0	13.72	13.56	13.56	14.30

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LTE Band 2 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	16.29	16.35	16.33	17.40
		1	2	16.42	16.40	16.44	17.40
		1	5	16.26	16.33	16.43	17.40
		3	0	16.25	16.38	16.43	17.40
		3	2	16.26	16.35	16.45	17.40
		3	3	16.34	16.34	16.39	17.40
		6	0	16.32	16.37	16.50	17.40
	16QAM	1	0	16.13	16.51	16.44	17.40
		1	2	16.41	16.58	16.34	17.40
		1	5	16.63	16.51	16.43	17.40
		3	0	16.26	16.38	16.46	17.40
		3	2	16.36	16.35	16.63	17.40
		3	3	16.37	16.34	16.37	17.40
		6	0	16.44	16.43	16.58	17.40
	64QAM	1	0	16.16	16.18	16.28	17.40
		1	2	16.30	16.35	16.31	17.40
		1	5	16.02	16.23	16.23	17.40
		3	0	16.02	16.20	16.35	17.40
		3	2	16.08	16.16	16.24	17.40
		3	3	16.31	16.23	16.37	17.40
		6	0	16.13	16.36	16.29	17.40
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	16.49	16.30	16.41	17.40
		1	7	16.42	16.41	16.34	17.40
		1	14	16.45	16.37	16.54	17.40
		8	0	16.42	16.48	16.61	17.40
		8	4	16.52	16.60	16.63	17.40
		8	7	16.43	16.51	16.61	17.40
		15	0	16.48	16.55	16.51	17.40
	16QAM	1	0	16.57	16.40	16.51	17.40
		1	7	16.45	16.57	16.38	17.40
		1	14	16.42	16.53	16.64	17.40
		8	0	16.44	16.52	16.64	17.40
		8	4	16.60	16.53	16.68	17.40
		8	7	16.57	16.47	16.66	17.40
		15	0	16.39	16.48	16.56	17.40
	64QAM	1	0	16.27	16.30	16.33	17.40
		1	7	16.21	16.17	16.33	17.40
		1	14	16.35	16.29	16.32	17.40
		8	0	16.37	16.32	16.46	17.40
		8	4	16.50	16.51	16.53	17.40
		8	7	16.43	16.28	16.37	17.40
		15	0	16.39	16.37	16.39	17.40

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	16.37	16.33	16.32	17.40
		1	13	16.53	16.40	16.43	17.40
		1	24	16.37	16.44	16.46	17.40
		12	0	16.43	16.43	16.44	17.40
		12	6	16.49	16.51	16.57	17.40
		12	13	16.49	16.53	16.52	17.40
		25	0	16.50	16.52	16.47	17.40
	16QAM	1	0	16.76	16.46	16.42	17.40
		1	13	16.67	16.53	16.73	17.40
		1	24	16.69	16.59	16.44	17.40
		12	0	16.47	16.36	16.38	17.40
		12	6	16.55	16.54	16.52	17.40
		12	13	16.46	16.57	16.49	17.40
		25	0	16.47	16.52	16.59	17.40
	64QAM	1	0	16.28	16.11	16.14	17.40
		1	13	16.53	16.40	16.22	17.40
		1	24	16.17	16.40	16.30	17.40
		12	0	16.22	16.37	16.31	17.40
		12	6	16.34	16.28	16.54	17.40
		12	13	16.28	16.47	16.39	17.40
		25	0	16.38	16.43	16.44	17.40

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	16.35	16.23	16.40	17.40
		1	25	16.24	16.34	16.51	17.40
		1	49	16.22	16.32	16.48	17.40
		25	0	16.46	16.42	16.41	17.40
		25	13	16.52	16.50	16.49	17.40
		25	25	16.57	16.61	16.50	17.40
		50	0	16.51	16.54	16.46	17.40
	16QAM	1	0	16.79	16.60	16.39	17.40
		1	25	17.08	17.14	17.10	17.40
		1	49	16.98	17.34	16.63	17.40
		25	0	16.41	16.43	16.32	17.40
		25	13	16.48	16.56	16.56	17.40
		25	25	16.57	16.52	16.64	17.40
		50	0	16.43	16.50	16.44	17.40
	64QAM	1	0	16.26	16.20	16.35	17.40
		1	25	16.07	16.12	16.30	17.40
		1	49	16.12	16.17	16.40	17.40
		25	0	16.38	16.41	16.32	17.40
		25	13	16.44	16.37	16.49	17.40
		25	25	16.52	16.41	16.40	17.40
		50	0	16.29	16.54	16.36	17.40

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	16.59	16.60	16.58	17.40
		1	38	16.60	16.50	16.58	17.40
		1	74	16.47	16.68	16.67	17.40
		36	0	16.52	16.71	16.59	17.40
		36	18	16.72	16.68	16.78	17.40
		36	39	16.71	16.74	16.76	17.40
		75	0	16.73	16.73	16.70	17.40
	16QAM	1	0	16.82	16.69	16.75	17.40
		1	38	16.79	17.26	16.39	17.40
		1	74	17.20	17.14	17.00	17.40
		36	0	16.49	16.57	16.58	17.40
		36	18	16.69	16.61	16.70	17.40
		36	39	16.68	16.74	16.82	17.40
		75	0	16.69	16.80	16.78	17.40
	64QAM	1	0	16.35	16.38	16.39	17.40
		1	38	16.59	16.35	16.46	17.40
		1	74	16.37	16.53	16.48	17.40
		36	0	16.38	16.53	16.36	17.40
		36	18	16.50	16.46	16.71	17.40
		36	39	16.71	16.61	16.74	17.40
		75	0	16.56	16.50	16.46	17.40
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	16.58	16.65	16.64	17.40
		1	50	16.67	16.71	16.66	17.40
		1	99	16.43	16.52	16.62	17.40
		50	0	16.65	16.73	16.69	17.40
		50	25	16.71	16.77	16.64	17.40
		50	50	16.66	16.72	16.72	17.40
		100	0	16.68	16.78	16.71	17.40
	16QAM	1	0	16.66	16.75	17.29	17.40
		1	50	17.36	17.39	16.91	17.40
		1	99	16.85	17.10	17.35	17.40
		50	0	16.53	16.63	16.71	17.40
		50	25	16.72	16.75	16.66	17.40
		50	50	16.82	16.77	17.06	17.40
		100	0	16.65	16.74	16.65	17.40
	64QAM	1	0	16.39	16.54	16.52	17.40
		1	50	16.56	16.64	16.42	17.40
		1	99	16.32	16.39	16.48	17.40
		50	0	16.47	16.54	16.58	17.40
		50	25	16.71	16.62	16.57	17.40
		50	50	16.45	16.72	16.71	17.40
		100	0	16.54	16.62	16.49	17.40

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LTE Band 2 WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	14.06	14.17	14.20	15.30
		1	2	14.11	14.27	14.29	15.30
		1	5	14.24	14.11	14.22	15.30
		3	0	14.06	14.21	14.21	15.30
		3	2	14.04	14.11	14.24	15.30
		3	3	14.14	14.19	14.24	15.30
		6	0	14.17	14.16	14.34	15.30
	16QAM	1	0	14.50	14.58	14.76	15.30
		1	2	14.55	14.62	15.04	15.30
		1	5	14.79	14.54	14.78	15.30
		3	0	14.34	14.26	14.34	15.30
		3	2	14.44	14.43	14.52	15.30
		3	3	14.24	14.30	14.33	15.30
		6	0	14.37	14.60	14.57	15.30
	64QAM	1	0	14.07	14.22	14.42	15.30
		1	2	14.16	14.29	14.38	15.30
		1	5	14.29	14.30	14.28	15.30
		3	0	14.28	14.31	14.32	15.30
		3	2	14.21	14.32	14.46	15.30
		3	3	14.38	14.31	14.29	15.30
		6	0	14.19	14.18	14.53	15.30
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	14.12	14.16	14.36	15.30
		1	7	14.13	14.19	14.39	15.30
		1	14	14.25	14.26	14.56	15.30
		8	0	14.35	14.27	14.41	15.30
		8	4	14.25	14.31	14.41	15.30
		8	7	14.25	14.29	14.38	15.30
		15	0	14.21	14.26	14.35	15.30
	16QAM	1	0	14.51	14.41	14.52	15.30
		1	7	14.32	14.55	14.45	15.30
		1	14	14.35	14.49	14.89	15.30
		8	0	14.53	14.50	14.52	15.30
		8	4	14.43	14.53	14.59	15.30
		8	7	14.44	14.47	14.51	15.30
		15	0	14.38	14.37	14.58	15.30
	64QAM	1	0	14.17	14.16	14.48	15.30
		1	7	14.20	14.39	14.54	15.30
		1	14	14.44	14.42	14.62	15.30
		8	0	14.52	14.36	14.58	15.30
		8	4	14.25	14.55	14.61	15.30
		8	7	14.34	14.33	14.59	15.30
		15	0	14.45	14.46	14.35	15.30

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	14.39	14.21	14.32	15.30
		1	13	14.13	14.23	14.31	15.30
		1	24	14.35	14.30	14.40	15.30
		12	0	14.32	14.26	14.32	15.30
		12	6	14.36	14.40	14.42	15.30
		12	13	14.25	14.43	14.40	15.30
		25	0	14.26	14.33	14.38	15.30
	16QAM	1	0	14.61	14.15	14.41	15.30
		1	13	14.40	14.68	14.62	15.30
		1	24	14.50	14.62	14.48	15.30
		12	0	14.44	14.39	14.42	15.30
		12	6	14.51	14.60	14.49	15.30
		12	13	14.52	14.57	14.62	15.30
		25	0	14.49	14.46	14.37	15.30
	64QAM	1	0	14.61	14.39	14.35	15.30
		1	13	14.30	14.47	14.42	15.30
		1	24	14.44	14.33	14.65	15.30
		12	0	14.49	14.35	14.35	15.30
		12	6	14.58	14.50	14.45	15.30
		12	13	14.38	14.58	14.51	15.30
		25	0	14.48	14.37	14.49	15.30

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	14.27	14.14	14.22	15.30
		1	25	14.20	14.24	14.23	15.30
		1	49	14.20	14.20	14.44	15.30
		25	0	14.30	14.29	14.25	15.30
		25	13	14.32	14.39	14.42	15.30
		25	25	14.29	14.29	14.30	15.30
		50	0	14.32	14.38	14.32	15.30
	16QAM	1	0	14.61	14.81	14.84	15.30
		1	25	14.71	14.31	14.68	15.30
		1	49	14.46	14.91	15.09	15.30
		25	0	14.46	14.29	14.42	15.30
		25	13	14.34	14.41	14.40	15.30
		25	25	14.40	14.37	14.52	15.30
		50	0	14.44	14.58	14.42	15.30
	64QAM	1	0	14.38	14.33	14.46	15.30
		1	25	14.29	14.33	14.41	15.30
		1	49	14.27	14.22	14.48	15.30
		25	0	14.36	14.48	14.36	15.30
		25	13	14.55	14.60	14.58	15.30
		25	25	14.41	14.38	14.39	15.30
		50	0	14.38	14.50	14.35	15.30

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Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
15MHz	QPSK	1	0	14.23	14.29	14.23	15.30
		1	38	14.32	14.34	14.18	15.30
		1	74	14.38	14.24	14.35	15.30
		36	0	14.42	14.44	14.41	15.30
		36	18	14.45	14.37	14.45	15.30
		36	39	14.45	14.49	14.50	15.30
		75	0	14.42	14.56	14.37	15.30
	16QAM	1	0	14.86	14.59	14.88	15.30
		1	38	15.18	15.11	15.24	15.30
		1	74	14.77	15.05	14.72	15.30
		36	0	14.52	14.64	14.51	15.30
		36	18	14.64	14.61	14.64	15.30
		36	39	14.72	14.66	14.57	15.30
		75	0	14.62	14.69	14.58	15.30
	64QAM	1	0	14.41	14.44	14.42	15.30
		1	38	14.34	14.46	14.38	15.30
		1	74	14.51	14.27	14.60	15.30
		36	0	14.58	14.48	14.46	15.30
		36	18	14.48	14.61	14.55	15.30
		36	39	14.60	14.69	14.55	15.30
		75	0	14.44	14.66	14.38	15.30

Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	14.26	14.46	14.43	15.30
		1	50	14.18	14.34	14.26	15.30
		1	99	14.21	14.11	14.30	15.30
		50	0	14.45	14.46	14.46	15.30
		50	25	14.51	14.64	14.49	15.30
		50	50	14.40	14.51	14.49	15.30
		100	0	14.46	14.54	14.57	15.30
	16QAM	1	0	14.97	14.91	15.07	15.30
		1	50	14.90	14.68	14.88	15.30
		1	99	14.74	14.56	14.85	15.30
		50	0	14.51	14.56	14.52	15.30
		50	25	14.63	14.72	14.65	15.30
		50	50	14.58	14.66	14.64	15.30
		100	0	14.64	14.69	14.67	15.30
	64QAM	1	0	14.48	14.69	14.62	15.30
		1	50	14.23	14.34	14.26	15.30
		1	99	14.37	14.22	14.43	15.30
		50	0	14.62	14.51	14.50	15.30
		50	25	14.52	14.84	14.54	15.30
		50	50	14.40	14.58	14.68	15.30
		100	0	14.48	14.63	14.79	15.30

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LTE Band 2 WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
1.4MHz	QPSK	1	0	17.33	17.31	17.41	18.40
		1	2	17.28	17.33	17.45	18.40
		1	5	17.28	17.23	17.38	18.40
		3	0	17.32	17.46	17.43	18.40
		3	2	17.31	17.43	17.39	18.40
		3	3	17.31	17.36	17.43	18.40
		6	0	17.34	17.48	17.48	18.40
	16QAM	1	0	17.64	17.97	17.73	18.40
		1	2	18.20	17.67	17.68	18.40
		1	5	17.46	17.48	17.89	18.40
		3	0	17.34	17.37	17.57	18.40
		3	2	17.45	17.55	17.54	18.40
		3	3	17.48	17.49	17.50	18.40
		6	0	17.68	17.49	17.52	18.40
	64QAM	1	0	17.59	17.91	17.50	18.40
		1	2	18.06	17.57	17.45	18.40
		1	5	17.40	17.39	17.74	18.40
		3	0	17.26	17.29	17.41	18.40
		3	2	17.40	17.50	17.40	18.40
		3	3	17.25	17.45	17.35	18.40
		6	0	17.49	17.29	17.38	18.40
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185	Tune up
3MHz	QPSK	1	0	17.31	17.39	17.53	18.40
		1	7	17.33	17.47	17.54	18.40
		1	14	17.43	17.43	17.53	18.40
		8	0	17.49	17.45	17.52	18.40
		8	4	17.47	17.53	17.63	18.40
		8	7	17.44	17.54	17.65	18.40
		15	0	17.50	17.48	17.59	18.40
	16QAM	1	0	17.66	17.90	17.61	18.40
		1	7	17.69	17.59	17.78	18.40
		1	14	17.64	17.80	17.56	18.40
		8	0	17.67	17.54	17.64	18.40
		8	4	17.49	17.64	17.61	18.40
		8	7	17.50	17.60	17.68	18.40
		15	0	17.43	17.61	17.64	18.40
	64QAM	1	0	17.54	17.88	17.55	18.40
		1	7	17.46	17.37	17.68	18.40
		1	14	17.46	17.61	17.31	18.40
		8	0	17.50	17.45	17.50	18.40
		8	4	17.48	17.46	17.47	18.40
		8	7	17.44	17.49	17.51	18.40
		15	0	17.30	17.57	17.62	18.40

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Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175	Tune up
5MHz	QPSK	1	0	17.40	17.45	17.51	18.40
		1	13	17.43	17.51	17.63	18.40
		1	24	17.54	17.43	17.39	18.40
		12	0	17.46	17.51	17.53	18.40
		12	6	17.55	17.53	17.60	18.40
		12	13	17.50	17.56	17.62	18.40
		25	0	17.47	17.58	17.51	18.40
	16QAM	1	0	17.29	17.59	17.63	18.40
		1	13	17.38	17.76	17.33	18.40
		1	24	17.76	17.56	17.79	18.40
		12	0	17.50	17.50	17.58	18.40
		12	6	17.63	17.55	17.45	18.40
		12	13	17.57	17.64	17.67	18.40
		25	0	17.62	17.57	17.44	18.40
	64QAM	1	0	17.20	17.58	17.39	18.40
		1	13	17.14	17.53	17.19	18.40
		1	24	17.72	17.53	17.76	18.40
		12	0	17.33	17.31	17.47	18.40
		12	6	17.50	17.45	17.26	18.40
		12	13	17.52	17.62	17.54	18.40
		25	0	17.47	17.39	17.23	18.40

Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150	Tune up
10MHz	QPSK	1	0	17.24	17.50	17.50	18.40
		1	25	17.38	17.46	17.36	18.40
		1	49	17.38	17.53	17.49	18.40
		25	0	17.52	17.44	17.49	18.40
		25	13	17.55	17.64	17.61	18.40
		25	25	17.48	17.63	17.64	18.40
		50	0	17.56	17.57	17.47	18.40
	16QAM	1	0	17.55	17.88	18.10	18.40
		1	25	17.85	17.87	17.47	18.40
		1	49	18.12	17.78	17.85	18.40
		25	0	17.59	17.55	18.02	18.40
		25	13	17.50	17.63	17.69	18.40
		25	25	17.65	17.60	17.54	18.40
		50	0	17.54	17.61	17.57	18.40
	64QAM	1	0	17.30	17.68	17.89	18.40
		1	25	17.84	17.64	17.28	18.40
		1	49	18.08	17.61	17.62	18.40
		25	0	17.53	17.44	18.01	18.40
		25	13	17.33	17.40	17.63	18.40
		25	25	17.40	17.36	17.35	18.40
		50	0	17.31	17.41	17.35	18.40

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	17.58	17.63	17.38	18.40
		1	38	17.58	17.74	17.67	18.40
		1	74	17.65	17.75	17.67	18.40
		36	0	17.61	17.64	17.68	18.40
		36	18	17.75	17.65	17.82	18.40
		36	39	17.82	17.76	17.87	18.40
		75	0	17.80	17.79	17.76	18.40
	16QAM	1	0	18.15	17.91	17.89	18.40
		1	38	17.92	17.96	18.16	18.40
		1	74	17.87	17.97	18.15	18.40
		36	0	17.68	17.64	17.66	18.40
		36	18	17.76	17.77	17.75	18.40
		36	39	17.74	17.73	17.78	18.40
		75	0	17.75	17.83	17.83	18.40
	64QAM	1	0	17.98	17.82	17.89	18.40
		1	38	17.84	17.71	18.07	18.40
		1	74	17.85	17.76	18.01	18.40
		36	0	17.57	17.61	17.64	18.40
		36	18	17.60	17.55	17.62	18.40
		36	39	17.63	17.52	17.60	18.40
		75	0	17.73	17.71	17.65	18.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	17.64	17.79	17.62	18.40
		1	50	17.61	17.68	17.57	18.40
		1	99	17.57	17.52	17.46	18.40
		50	0	17.85	17.70	17.61	18.40
		50	25	17.76	17.76	17.67	18.40
		50	50	17.78	17.70	17.74	18.40
		100	0	17.71	17.77	17.70	18.40
	16QAM	1	0	17.71	18.21	18.00	18.40
		1	50	17.86	17.74	17.91	18.40
		1	99	17.87	17.92	18.13	18.40
		50	0	17.74	17.61	17.70	18.40
		50	25	17.81	17.80	17.79	18.40
		50	50	17.85	17.82	17.78	18.40
		100	0	17.76	17.76	17.67	18.40
	64QAM	1	0	17.65	18.08	17.97	18.40
		1	50	17.71	17.60	17.73	18.40
		1	99	17.73	17.67	18.08	18.40
		50	0	17.72	17.36	17.65	18.40
		50	25	17.69	17.80	17.72	18.40
		50	50	17.67	17.76	17.72	18.40
		100	0	17.71	17.59	17.44	18.40

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LTE Band 4 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	14.84	14.84	14.80	16.00
		1	2	14.94	14.87	14.88	16.00
		1	5	14.99	14.98	14.76	16.00
		3	0	14.92	14.86	14.80	16.00
		3	2	15.02	14.95	14.81	16.00
		3	3	14.89	14.96	14.94	16.00
		6	0	15.03	14.97	14.91	16.00
	16QAM	1	0	15.59	15.49	15.73	16.00
		1	2	15.29	15.36	15.31	16.00
		1	5	15.27	15.24	15.33	16.00
		3	0	15.21	15.14	15.12	16.00
		3	2	15.24	15.34	14.80	16.00
		3	3	15.21	15.23	14.86	16.00
		6	0	15.39	15.21	15.12	16.00
	64QAM	1	0	15.42	15.43	15.55	16.00
		1	2	15.12	15.13	15.14	16.00
		1	5	15.05	15.19	15.25	16.00
		3	0	15.10	15.09	14.94	16.00
		3	2	15.21	15.25	14.74	16.00
		3	3	15.00	15.09	14.75	16.00
		6	0	15.20	15.18	15.02	16.00
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	15.26	14.84	14.70	16.00
		1	7	15.21	14.94	15.16	16.00
		1	14	15.04	15.01	14.87	16.00
		8	0	15.07	14.97	14.86	16.00
		8	4	15.10	15.03	15.02	16.00
		8	7	15.12	15.11	15.04	16.00
		15	0	15.06	14.98	14.95	16.00
	16QAM	1	0	15.29	15.48	15.19	16.00
		1	7	15.37	15.15	15.43	16.00
		1	14	15.03	15.42	15.52	16.00
		8	0	15.25	15.22	15.18	16.00
		8	4	15.36	15.14	15.22	16.00
		8	7	15.21	15.29	15.05	16.00
		15	0	15.36	15.20	15.04	16.00
	64QAM	1	0	15.76	15.48	15.11	16.00
		1	7	15.73	15.03	15.24	16.00
		1	14	14.98	15.39	15.32	16.00
		8	0	15.15	15.21	14.96	16.00
		8	4	15.34	15.07	15.22	16.00
		8	7	15.06	15.26	14.86	16.00
		15	0	15.20	15.05	14.84	16.00

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	14.91	14.99	14.80	16.00
		1	13	15.03	15.04	14.94	16.00
		1	24	15.05	15.12	15.09	16.00
		12	0	15.02	14.97	14.87	16.00
		12	6	15.08	15.00	14.93	16.00
		12	13	15.17	15.07	14.93	16.00
		25	0	15.14	15.01	14.94	16.00
	16QAM	1	0	15.39	15.41	15.42	16.00
		1	13	15.46	15.27	15.40	16.00
		1	24	15.37	15.26	15.27	16.00
		12	0	15.27	15.19	15.19	16.00
		12	6	15.38	15.19	15.01	16.00
		12	13	15.28	15.19	15.09	16.00
		25	0	15.28	15.14	15.14	16.00
	64QAM	1	0	15.25	15.18	15.37	16.00
		1	13	15.29	15.16	15.59	16.00
		1	24	15.28	15.42	15.02	16.00
		12	0	15.04	15.12	14.95	16.00
		12	6	15.20	15.16	14.89	16.00
		12	13	15.05	15.00	15.09	16.00
		25	0	15.17	15.14	14.89	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	15.07	15.02	14.81	16.00
		1	25	15.05	15.02	14.90	16.00
		1	49	15.15	15.13	14.69	16.00
		25	0	14.90	14.99	14.90	16.00
		25	13	15.16	15.05	15.01	16.00
		25	25	15.04	15.08	15.04	16.00
		50	0	15.11	14.99	14.98	16.00
	16QAM	1	0	15.58	15.27	15.39	16.00
		1	25	15.39	15.32	14.89	16.00
		1	49	15.30	15.66	15.58	16.00
		25	0	15.15	15.16	15.08	16.00
		25	13	15.39	15.18	15.14	16.00
		25	25	15.34	15.28	15.07	16.00
		50	0	15.25	15.14	14.99	16.00
	64QAM	1	0	15.54	15.26	15.31	16.00
		1	25	15.16	15.29	14.83	16.00
		1	49	15.60	15.63	15.48	16.00
		25	0	14.99	15.01	15.08	16.00
		25	13	15.27	15.17	14.98	16.00
		25	25	15.21	15.26	14.86	16.00
		50	0	15.23	14.99	14.81	16.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	15.24	15.18	15.16	16.00
		1	38	15.16	15.10	15.15	16.00
		1	74	15.10	15.18	15.02	16.00
		36	0	15.19	15.18	15.10	16.00
		36	18	15.21	15.18	15.18	16.00
		36	39	15.26	15.21	15.09	16.00
		75	0	15.24	15.21	15.14	16.00
	16QAM	1	0	15.70	15.35	15.49	16.00
		1	38	15.38	15.56	15.46	16.00
		1	74	15.28	15.52	15.67	16.00
		36	0	15.49	15.44	15.33	16.00
		36	18	15.48	15.43	15.25	16.00
		36	39	15.43	15.38	15.32	16.00
		75	0	15.52	15.43	15.26	16.00
	64QAM	1	0	15.67	15.68	15.45	16.00
		1	38	15.59	15.36	15.36	16.00
		1	74	15.26	15.48	15.62	16.00
		36	0	15.42	15.39	15.21	16.00
		36	18	15.33	15.33	15.02	16.00
		36	39	15.18	15.24	15.07	16.00
		75	0	15.42	15.26	15.16	16.00

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	15.28	15.25	15.09	16.00
		1	50	15.08	15.28	15.15	16.00
		1	99	15.11	15.11	15.01	16.00
		50	0	15.33	15.11	15.12	16.00
		50	25	15.34	15.14	15.21	16.00
		50	50	15.26	15.25	15.19	16.00
		100	0	15.16	15.21	15.19	16.00
	16QAM	1	0	15.49	15.53	15.50	16.00
		1	50	15.48	15.22	15.36	16.00
		1	99	15.43	15.52	15.52	16.00
		50	0	15.45	15.35	15.29	16.00
		50	25	15.40	15.32	15.30	16.00
		50	50	15.40	15.35	15.29	16.00
		100	0	15.48	15.33	15.29	16.00
	64QAM	1	0	15.57	15.23	15.30	16.00
		1	50	15.21	15.08	15.07	16.00
		1	99	15.34	15.03	14.95	16.00
		50	0	15.18	15.24	15.20	16.00
		50	25	15.14	15.15	15.07	16.00
		50	50	15.10	15.17	15.18	16.00
		100	0	15.21	15.05	15.04	16.00

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LTE Band 4 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	18.36	18.20	18.11	19.20
		1	2	18.23	18.27	18.20	19.20
		1	5	18.14	18.32	18.13	19.20
		3	0	18.49	18.21	18.08	19.20
		3	2	18.37	18.23	18.11	19.20
		3	3	18.40	18.18	18.13	19.20
		6	0	18.40	18.22	18.16	19.20
	16QAM	1	0	18.97	18.31	18.32	19.20
		1	2	18.73	18.64	18.06	19.20
		1	5	18.59	18.41	18.31	19.20
		3	0	18.23	18.40	18.37	19.20
		3	2	18.23	18.36	18.22	19.20
		3	3	18.24	18.27	18.07	19.20
		6	0	18.46	18.36	18.23	19.20
	64QAM	1	0	18.77	18.28	18.30	19.20
		1	2	18.66	18.40	17.89	19.20
		1	5	18.41	18.30	18.06	19.20
		3	0	18.17	18.25	18.16	19.20
		3	2	18.03	18.23	18.17	19.20
		3	3	18.06	18.10	18.04	19.20
		6	0	18.44	18.23	18.23	19.20
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	18.18	18.30	18.12	19.20
		1	7	18.52	18.23	18.02	19.20
		1	14	18.45	18.21	18.21	19.20
		8	0	18.47	18.37	18.29	19.20
		8	4	18.50	18.43	18.32	19.20
		8	7	18.46	18.44	18.26	19.20
		15	0	18.44	18.41	18.25	19.20
	16QAM	1	0	18.34	18.49	18.68	19.20
		1	7	18.46	18.38	18.18	19.20
		1	14	18.60	18.40	18.66	19.20
		8	0	18.56	18.44	18.35	19.20
		8	4	18.62	18.48	18.35	19.20
		8	7	18.40	18.58	18.26	19.20
		15	0	18.44	18.25	18.29	19.20
	64QAM	1	0	18.32	18.45	18.55	19.20
		1	7	18.29	18.38	18.09	19.20
		1	14	18.42	18.20	18.49	19.20
		8	0	18.53	18.28	18.31	19.20
		8	4	18.61	18.44	18.32	19.20
		8	7	18.35	18.48	18.26	19.20
		15	0	18.44	18.08	18.07	19.20

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	18.25	18.16	18.17	19.20
		1	13	18.39	18.33	18.33	19.20
		1	24	18.41	18.45	18.07	19.20
		12	0	18.45	18.32	18.23	19.20
		12	6	18.47	18.38	18.22	19.20
		12	13	18.44	18.41	18.24	19.20
		25	0	18.50	18.32	18.26	19.20
	16QAM	1	0	18.45	18.59	18.85	19.20
		1	13	18.51	18.54	18.64	19.20
		1	24	18.67	18.62	18.36	19.20
		12	0	18.41	18.47	18.16	19.20
		12	6	18.34	18.44	18.25	19.20
		12	13	18.42	18.44	18.36	19.20
		25	0	18.53	18.33	18.18	19.20
	64QAM	1	0	18.44	18.53	18.63	19.20
		1	13	18.41	18.30	18.57	19.20
		1	24	18.52	18.57	18.27	19.20
		12	0	18.29	18.32	18.10	19.20
		12	6	18.23	18.24	18.22	19.20
		12	13	18.28	18.43	18.18	19.20
		25	0	18.34	18.33	18.16	19.20

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	18.20	18.32	18.18	19.20
		1	25	18.40	18.29	18.08	19.20
		1	49	18.49	18.30	18.22	19.20
		25	0	18.39	18.29	18.27	19.20
		25	13	18.52	18.35	18.24	19.20
		25	25	18.52	18.48	18.35	19.20
		50	0	18.44	18.32	18.25	19.20
	16QAM	1	0	18.73	18.81	18.42	19.20
		1	25	18.42	19.06	18.06	19.20
		1	49	18.77	18.52	18.47	19.20
		25	0	18.44	18.38	18.28	19.20
		25	13	18.44	18.19	18.24	19.20
		25	25	18.44	18.44	18.35	19.20
		50	0	18.57	18.27	18.24	19.20
	64QAM	1	0	18.62	18.68	18.36	19.20
		1	25	18.35	18.95	18.04	19.20
		1	49	18.69	18.50	18.25	19.20
		25	0	18.19	18.24	18.21	19.20
		25	13	18.34	18.17	18.06	19.20
		25	25	18.20	18.24	18.12	19.20
		50	0	18.47	18.05	18.21	19.20

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	18.76	18.54	18.46	19.20
		1	38	18.56	18.52	18.27	19.20
		1	74	18.59	18.54	18.24	19.20
		36	0	18.74	18.59	18.58	19.20
		36	18	18.68	18.57	18.49	19.20
		36	39	18.55	18.57	18.47	19.20
		75	0	18.64	18.56	18.45	19.20
	16QAM	1	0	19.00	18.74	18.71	19.20
		1	38	18.62	18.70	18.59	19.20
		1	74	18.46	19.09	18.50	19.20
		36	0	18.59	18.70	18.37	19.20
		36	18	18.67	18.55	18.43	19.20
		36	39	18.59	18.57	18.50	19.20
		75	0	18.67	18.61	18.40	19.20
	64QAM	1	0	18.80	18.52	18.49	19.20
		1	38	18.58	18.66	18.40	19.20
		1	74	18.43	18.90	18.49	19.20
		36	0	18.35	18.48	18.28	19.20
		36	18	18.47	18.32	18.29	19.20
		36	39	18.48	18.42	18.33	19.20
		75	0	18.46	18.39	18.15	19.20

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	18.80	18.49	18.50	19.20
		1	50	18.40	18.35	18.32	19.20
		1	99	18.45	18.51	18.45	19.20
		50	0	18.69	18.57	18.56	19.20
		50	25	18.68	18.61	18.46	19.20
		50	50	18.66	18.60	18.46	19.20
		100	0	18.72	18.49	18.19	19.20
	16QAM	1	0	18.83	19.14	19.08	19.20
		1	50	18.74	18.72	18.59	19.20
		1	99	19.05	18.61	18.75	19.20
		50	0	18.73	18.63	18.55	19.20
		50	25	18.66	18.63	18.42	19.20
		50	50	18.61	18.55	18.50	19.20
		100	0	18.72	18.54	18.38	19.20
	64QAM	1	0	18.66	18.39	18.31	19.20
		1	50	18.56	18.10	18.44	19.20
		1	99	18.43	18.30	18.33	19.20
		50	0	18.15	18.40	18.35	19.20
		50	25	18.42	18.32	18.36	19.20
		50	50	18.31	18.34	18.37	19.20
		100	0	18.43	18.28	18.31	19.20

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LTE Band 4 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	12.95	12.99	13.02	14.20
		1	2	13.02	13.15	12.98	14.20
		1	5	13.10	13.18	13.09	14.20
		3	0	13.06	13.04	12.95	14.20
		3	2	13.12	13.13	13.01	14.20
		3	3	13.07	13.15	12.95	14.20
		6	0	13.14	13.15	13.07	14.20
	16QAM	1	0	13.15	13.50	13.21	14.20
		1	2	13.55	13.58	13.45	14.20
		1	5	13.51	13.64	13.63	14.20
		3	0	13.08	13.01	12.98	14.20
		3	2	13.25	13.13	12.97	14.20
		3	3	13.18	13.16	13.06	14.20
		6	0	13.35	13.25	13.20	14.20
	64QAM	1	0	13.15	13.46	13.15	14.20
		1	2	13.48	13.34	13.31	14.20
		1	5	13.37	13.42	13.51	14.20
		3	0	12.86	12.96	12.82	14.20
		3	2	13.04	13.11	12.72	14.20
		3	3	12.93	13.03	12.92	14.20
		6	0	13.13	13.06	13.12	14.20
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	13.07	13.12	13.04	14.20
		1	7	13.18	13.33	12.97	14.20
		1	14	13.25	13.14	13.11	14.20
		8	0	13.26	13.19	13.06	14.20
		8	4	13.27	13.26	13.19	14.20
		8	7	13.30	13.36	13.23	14.20
		15	0	13.23	13.23	13.15	14.20
	16QAM	1	0	13.38	12.98	13.29	14.20
		1	7	13.27	13.65	13.05	14.20
		1	14	13.27	13.10	13.71	14.20
		8	0	13.24	13.21	13.02	14.20
		8	4	13.45	13.35	13.20	14.20
		8	7	13.36	13.35	13.21	14.20
		15	0	13.27	13.14	13.24	14.20
	64QAM	1	0	13.25	12.92	13.13	14.20
		1	7	13.16	13.48	13.04	14.20
		1	14	13.11	13.00	13.66	14.20
		8	0	13.05	13.10	12.87	14.20
		8	4	13.25	13.28	13.06	14.20
		8	7	13.35	13.18	13.20	14.20
		15	0	13.14	13.00	13.20	14.20

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	13.15	13.17	13.06	14.20
		1	13	13.19	13.38	12.99	14.20
		1	24	13.14	13.03	12.96	14.20
		12	0	13.22	13.14	13.09	14.20
		12	6	13.29	13.25	13.14	14.20
		12	13	13.32	13.34	13.23	14.20
		25	0	13.31	13.19	13.17	14.20
	16QAM	1	0	13.50	13.39	13.34	14.20
		1	13	13.15	13.66	13.26	14.20
		1	24	13.90	13.49	13.83	14.20
		12	0	13.19	13.18	13.08	14.20
		12	6	13.43	13.16	13.10	14.20
		12	13	13.36	13.26	13.15	14.20
		25	0	13.23	13.15	13.07	14.20
	64QAM	1	0	13.30	13.39	13.21	14.20
		1	13	13.03	13.61	13.15	14.20
		1	24	13.85	13.27	13.58	14.20
		12	0	13.00	13.11	13.04	14.20
		12	6	13.36	12.95	13.03	14.20
		12	13	13.16	13.18	13.03	14.20
		25	0	13.06	13.15	12.99	14.20

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	13.18	13.10	13.13	14.20
		1	25	13.20	13.18	13.11	14.20
		1	49	13.07	13.13	13.00	14.20
		25	0	13.12	13.24	13.00	14.20
		25	13	13.33	13.22	13.18	14.20
		25	25	13.32	13.34	13.20	14.20
		50	0	13.46	13.16	13.15	14.20
	16QAM	1	0	13.94	14.00	14.05	14.20
		1	25	13.75	13.64	13.22	14.20
		1	49	13.57	13.70	13.38	14.20
		25	0	13.08	13.09	13.16	14.20
		25	13	13.31	13.16	13.22	14.20
		25	25	13.33	13.29	13.26	14.20
		50	0	13.35	13.15	13.19	14.20
	64QAM	1	0	13.93	13.81	13.90	14.20
		1	25	13.70	13.47	13.22	14.20
		1	49	13.47	13.52	13.21	14.20
		25	0	12.94	13.05	13.12	14.20
		25	13	13.27	13.11	13.05	14.20
		25	25	13.18	13.28	13.21	14.20
		50	0	13.25	12.98	13.10	14.20

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	13.18	13.30	13.14	14.20
		1	38	13.24	13.37	13.10	14.20
		1	74	13.35	13.23	13.05	14.20
		36	0	13.38	13.39	13.16	14.20
		36	18	13.45	13.38	13.30	14.20
		36	39	13.45	13.43	13.38	14.20
		75	0	13.43	13.32	13.26	14.20
	16QAM	1	0	13.65	14.10	13.61	14.20
		1	38	13.59	13.57	13.76	14.20
		1	74	13.69	14.03	13.92	14.20
		36	0	13.40	13.27	13.15	14.20
		36	18	13.53	13.40	13.31	14.20
		36	39	13.46	13.42	13.36	14.20
		75	0	13.48	13.45	13.38	14.20
	64QAM	1	0	13.59	14.02	13.54	14.20
		1	38	13.53	13.44	13.59	14.20
		1	74	13.51	13.98	13.88	14.20
		36	0	13.38	13.07	12.90	14.20
		36	18	13.42	13.36	13.31	14.20
		36	39	13.24	13.40	13.12	14.20
		75	0	13.42	13.31	13.19	14.20

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	13.39	13.45	13.31	14.20
		1	50	13.18	13.46	13.24	14.20
		1	99	13.20	13.16	12.98	14.20
		50	0	13.54	13.42	13.40	14.20
		50	25	13.57	13.45	13.37	14.20
		50	50	13.46	13.39	13.35	14.20
		100	0	13.53	13.36	13.37	14.20
	16QAM	1	0	13.62	13.74	13.74	14.20
		1	50	13.50	13.59	13.45	14.20
		1	99	13.46	13.61	13.57	14.20
		50	0	13.52	13.46	13.36	14.20
		50	25	13.54	13.32	13.42	14.20
		50	50	13.52	13.46	13.43	14.20
		100	0	13.43	13.40	13.36	14.20
	64QAM	1	0	13.46	13.52	13.58	14.20
		1	50	13.29	13.57	13.38	14.20
		1	99	13.46	13.52	13.49	14.20
		50	0	13.36	13.29	13.24	14.20
		50	25	13.31	13.18	13.23	14.20
		50	50	13.45	13.32	13.31	14.20
		100	0	13.19	13.15	13.13	14.20

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LTE Band 4 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	16.43	16.28	16.26	17.40
		1	2	16.53	16.48	16.37	17.40
		1	5	16.48	16.39	16.29	17.40
		3	0	16.55	16.34	16.19	17.40
		3	2	16.49	16.39	16.20	17.40
		3	3	16.49	16.38	16.22	17.40
		6	0	16.62	16.40	16.38	17.40
	16QAM	1	0	16.96	16.42	16.73	17.40
		1	2	17.06	16.60	17.04	17.40
		1	5	16.52	16.54	16.70	17.40
		3	0	16.72	16.49	16.25	17.40
		3	2	16.66	16.52	16.23	17.40
		3	3	16.58	16.63	16.34	17.40
		6	0	16.52	16.51	16.45	17.40
	64QAM	1	0	16.88	16.26	16.71	17.40
		1	2	16.96	16.55	16.85	17.40
		1	5	16.36	16.46	16.58	17.40
		3	0	16.69	16.30	16.17	17.40
		3	2	16.66	16.27	16.05	17.40
		3	3	16.39	16.51	16.24	17.40
		6	0	16.45	16.36	16.34	17.40
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	16.58	16.46	16.28	17.40
		1	7	16.64	16.51	16.53	17.40
		1	14	16.60	16.48	16.35	17.40
		8	0	16.56	16.56	16.50	17.40
		8	4	16.58	16.55	16.54	17.40
		8	7	16.55	16.54	16.45	17.40
		15	0	16.60	16.51	16.40	17.40
	16QAM	1	0	16.57	16.67	16.64	17.40
		1	7	16.81	16.34	16.54	17.40
		1	14	16.52	16.49	16.34	17.40
		8	0	16.69	16.64	16.49	17.40
		8	4	16.76	16.62	16.53	17.40
		8	7	16.60	16.73	16.51	17.40
		15	0	16.76	16.59	16.49	17.40
	64QAM	1	0	16.48	16.61	16.51	17.40
		1	7	16.63	16.28	16.53	17.40
		1	14	16.46	16.39	16.27	17.40
		8	0	16.54	16.48	16.24	17.40
		8	4	16.68	16.51	16.39	17.40
		8	7	16.35	16.69	16.40	17.40
		15	0	16.61	16.48	16.26	17.40

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	16.51	16.38	16.28	17.40
		1	13	16.63	16.46	16.59	17.40
		1	24	16.50	16.44	16.27	17.40
		12	0	16.59	16.53	16.38	17.40
		12	6	16.68	16.52	16.42	17.40
		12	13	16.65	16.55	16.43	17.40
		25	0	16.63	16.47	16.34	17.40
	16QAM	1	0	16.93	16.56	16.57	17.40
		1	13	16.78	16.83	16.67	17.40
		1	24	16.72	16.77	16.41	17.40
		12	0	16.71	16.57	16.42	17.40
		12	6	16.62	16.52	16.40	17.40
		12	13	16.64	16.74	16.43	17.40
		25	0	16.74	16.57	16.47	17.40
	64QAM	1	0	16.76	16.33	16.32	17.40
		1	13	16.62	16.76	16.48	17.40
		1	24	16.60	16.55	16.34	17.40
		12	0	16.55	16.49	16.31	17.40
		12	6	16.39	16.46	16.18	17.40
		12	13	16.48	16.73	16.42	17.40
		25	0	16.51	16.47	16.43	17.40

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	16.43	16.47	16.27	17.40
		1	25	16.53	16.39	16.45	17.40
		1	49	16.42	16.39	16.16	17.40
		25	0	16.57	16.43	16.36	17.40
		25	13	16.63	16.52	16.46	17.40
		25	25	16.67	16.61	16.57	17.40
		50	0	16.75	16.57	16.47	17.40
	16QAM	1	0	16.45	16.72	16.50	17.40
		1	25	16.72	17.23	16.85	17.40
		1	49	16.66	16.99	16.47	17.40
		25	0	16.43	16.50	16.39	17.40
		25	13	16.60	16.46	16.45	17.40
		25	25	16.73	16.60	16.60	17.40
		50	0	16.67	16.59	16.44	17.40
	64QAM	1	0	16.26	16.72	16.46	17.40
		1	25	16.59	17.22	16.70	17.40
		1	49	16.43	16.86	16.33	17.40
		25	0	16.19	16.29	16.35	17.40
		25	13	16.53	16.38	16.37	17.40
		25	25	16.53	16.35	16.51	17.40
		50	0	16.67	16.48	16.38	17.40

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	16.92	16.70	16.68	17.40
		1	38	16.59	16.74	16.51	17.40
		1	74	16.66	16.52	16.47	17.40
		36	0	16.80	16.84	16.75	17.40
		36	18	16.81	16.70	16.64	17.40
		36	39	16.75	16.69	16.64	17.40
		75	0	16.77	16.70	16.70	17.40
	16QAM	1	0	17.15	16.59	16.86	17.40
		1	38	16.84	16.65	17.11	17.40
		1	74	16.45	16.83	16.48	17.40
		36	0	16.75	16.86	16.67	17.40
		36	18	16.87	16.78	16.55	17.40
		36	39	16.83	16.67	16.64	17.40
		75	0	16.90	16.78	16.59	17.40
	64QAM	1	0	17.08	16.50	16.75	17.40
		1	38	16.79	16.48	16.88	17.40
		1	74	16.38	16.76	17.30	17.40
		36	0	16.69	16.81	16.56	17.40
		36	18	16.75	16.56	16.46	17.40
		36	39	16.81	16.51	16.46	17.40
		75	0	16.70	16.78	16.36	17.40
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	16.84	16.89	16.74	17.40
		1	50	16.51	16.37	16.34	17.40
		1	99	16.68	16.58	16.55	17.40
		50	0	16.79	16.84	16.72	17.40
		50	25	16.89	16.80	16.72	17.40
		50	50	16.77	16.80	16.62	17.40
		100	0	16.85	16.61	16.71	17.40
	16QAM	1	0	16.91	17.11	17.38	17.40
		1	50	17.34	16.74	16.70	17.40
		1	99	17.01	16.89	16.60	17.40
		50	0	16.83	16.85	16.73	17.40
		50	25	16.92	16.71	16.62	17.40
		50	50	16.82	16.72	16.70	17.40
		100	0	16.77	16.70	16.68	17.40
	64QAM	1	0	16.72	16.86	17.32	17.40
		1	50	17.28	16.53	16.68	17.40
		1	99	16.88	16.77	16.37	17.40
		50	0	16.83	16.77	16.63	17.40
		50	25	16.85	16.46	16.53	17.40
		50	50	16.66	16.55	16.70	17.40
		100	0	16.72	16.70	16.46	17.40

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LTE Band 4 WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	13.90	13.89	13.87	15.20
		1	2	14.17	14.02	13.99	15.20
		1	5	14.05	14.05	13.91	15.20
		3	0	14.11	14.06	14.02	15.20
		3	2	14.18	14.13	13.92	15.20
		3	3	14.11	14.11	14.04	15.20
		6	0	14.17	14.10	14.02	15.20
	16QAM	1	0	14.82	14.96	14.58	15.20
		1	2	14.87	15.06	14.51	15.20
		1	5	14.91	14.79	14.18	15.20
		3	0	14.51	14.19	14.13	15.20
		3	2	14.43	14.34	14.25	15.20
		3	3	14.49	14.36	14.06	15.20
		6	0	14.57	14.27	14.40	15.20
	64QAM	1	0	14.09	14.00	13.89	15.20
		1	2	14.29	14.02	14.00	15.20
		1	5	14.08	14.30	14.04	15.20
		3	0	14.26	14.22	14.20	15.20
		3	2	14.39	14.34	14.11	15.20
		3	3	14.24	14.18	14.16	15.20
		6	0	14.26	14.11	14.13	15.20
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	13.95	14.11	14.01	15.20
		1	7	14.13	14.17	14.09	15.20
		1	14	14.26	14.26	14.02	15.20
		8	0	14.19	14.17	14.13	15.20
		8	4	14.32	14.25	14.23	15.20
		8	7	14.36	14.29	14.27	15.20
		15	0	14.25	14.18	14.21	15.20
	16QAM	1	0	14.44	14.98	14.40	15.20
		1	7	14.44	14.50	14.27	15.20
		1	14	14.56	14.45	14.40	15.20
		8	0	14.51	14.28	14.33	15.20
		8	4	14.53	14.51	14.35	15.20
		8	7	14.48	14.52	14.28	15.20
		15	0	14.45	14.34	14.21	15.20
	64QAM	1	0	14.14	14.23	14.07	15.20
		1	7	14.34	14.33	14.12	15.20
		1	14	14.26	14.47	14.12	15.20
		8	0	14.19	14.26	14.33	15.20
		8	4	14.50	14.36	14.47	15.20
		8	7	14.40	14.35	14.48	15.20
		15	0	14.28	14.25	14.42	15.20

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	14.18	14.18	14.18	15.20
		1	13	14.39	14.28	14.05	15.20
		1	24	14.17	14.15	14.12	15.20
		12	0	14.16	14.21	14.09	15.20
		12	6	14.35	14.22	14.22	15.20
		12	13	14.29	14.30	14.21	15.20
		25	0	14.29	14.24	14.22	15.20
	16QAM	1	0	14.83	14.43	14.13	15.20
		1	13	14.52	14.64	14.11	15.20
		1	24	14.51	14.54	14.74	15.20
		12	0	14.51	14.35	14.31	15.20
		12	6	14.56	14.47	14.36	15.20
		12	13	14.56	14.53	14.34	15.20
		25	0	14.48	14.50	14.21	15.20
	64QAM	1	0	14.18	14.31	14.27	15.20
		1	13	14.46	14.32	14.17	15.20
		1	24	14.40	14.38	14.19	15.20
		12	0	14.18	14.33	14.09	15.20
		12	6	14.43	14.45	14.24	15.20
		12	13	14.43	14.38	14.37	15.20
		25	0	14.49	14.40	14.38	15.20

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	14.23	14.11	14.05	15.20
		1	25	14.14	14.33	14.03	15.20
		1	49	14.30	14.31	14.12	15.20
		25	0	14.17	14.14	14.12	15.20
		25	13	14.30	14.29	14.24	15.20
		25	25	14.31	14.31	14.24	15.20
		50	0	14.26	14.12	14.18	15.20
	16QAM	1	0	14.54	14.78	14.84	15.20
		1	25	14.77	14.92	14.87	15.20
		1	49	15.04	14.51	14.52	15.20
		25	0	14.32	14.47	14.22	15.20
		25	13	14.52	14.37	14.30	15.20
		25	25	14.58	14.31	14.33	15.20
		50	0	14.55	14.41	14.27	15.20
	64QAM	1	0	14.28	14.14	14.25	15.20
		1	25	14.24	14.40	14.19	15.20
		1	49	14.31	14.31	14.37	15.20
		25	0	14.29	14.16	14.29	15.20
		25	13	14.43	14.53	14.32	15.20
		25	25	14.43	14.50	14.28	15.20
		50	0	14.31	14.31	14.36	15.20

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	14.34	14.29	14.22	15.20
		1	38	14.34	14.33	14.21	15.20
		1	74	14.46	14.44	14.15	15.20
		36	0	14.44	14.34	14.26	15.20
		36	18	14.52	14.42	14.40	15.20
		36	39	14.49	14.53	14.37	15.20
		75	0	14.45	14.33	14.37	15.20
	16QAM	1	0	15.07	15.10	14.70	15.20
		1	38	14.98	14.80	15.06	15.20
		1	74	15.15	14.53	14.55	15.20
		36	0	14.70	14.62	14.51	15.20
		36	18	14.68	14.59	14.51	15.20
		36	39	14.66	14.62	14.49	15.20
		75	0	14.72	14.62	14.55	15.20
	64QAM	1	0	14.46	14.49	14.41	15.20
		1	38	14.42	14.51	14.45	15.20
		1	74	14.71	14.62	14.32	15.20
		36	0	14.66	14.35	14.38	15.20
		36	18	14.60	14.51	14.62	15.20
		36	39	14.56	14.60	14.50	15.20
		75	0	14.52	14.48	14.50	15.20

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	14.47	14.34	14.28	15.20
		1	50	14.42	14.51	14.26	15.20
		1	99	14.18	14.40	14.25	15.20
		50	0	14.49	14.43	14.36	15.20
		50	25	14.58	14.45	14.47	15.20
		50	50	14.56	14.47	14.42	15.20
		100	0	14.48	14.43	14.37	15.20
	16QAM	1	0	14.89	14.87	14.96	15.20
		1	50	14.81	14.88	14.74	15.20
		1	99	14.70	14.71	14.58	15.20
		50	0	14.69	14.73	14.65	15.20
		50	25	14.70	14.53	14.52	15.20
		50	50	14.54	14.62	14.52	15.20
		100	0	14.64	14.63	14.38	15.20
	64QAM	1	0	14.71	14.38	14.42	15.20
		1	50	14.57	14.40	14.39	15.20
		1	99	14.33	14.56	14.36	15.20
		50	0	14.51	14.63	14.55	15.20
		50	25	14.62	14.47	14.48	15.20
		50	50	14.68	14.65	14.66	15.20
		100	0	14.56	14.51	14.46	15.20

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LTE Band 4 WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
1.4MHz	QPSK	1	0	17.50	17.31	17.41	18.40
		1	2	17.43	17.37	17.37	18.40
		1	5	17.41	17.36	17.19	18.40
		3	0	17.56	17.40	17.36	18.40
		3	2	17.69	17.56	17.24	18.40
		3	3	17.57	17.53	17.22	18.40
		6	0	17.54	17.46	17.36	18.40
	16QAM	1	0	18.15	18.11	17.26	18.40
		1	2	18.14	17.88	17.77	18.40
		1	5	18.05	17.98	17.55	18.40
		3	0	17.36	17.33	17.41	18.40
		3	2	17.71	17.60	17.35	18.40
		3	3	17.69	17.47	17.35	18.40
		6	0	17.76	17.48	17.58	18.40
	64QAM	1	0	17.51	17.55	17.56	18.40
		1	2	17.52	17.46	17.61	18.40
		1	5	17.64	17.59	17.41	18.40
		3	0	17.64	17.55	17.59	18.40
		3	2	17.74	17.64	17.36	18.40
		3	3	17.60	17.65	17.46	18.40
		6	0	17.74	17.48	17.52	18.40
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385	Tune up
3MHz	QPSK	1	0	17.57	17.52	17.35	18.40
		1	7	17.16	17.53	17.27	18.40
		1	14	17.49	17.48	17.49	18.40
		8	0	17.65	17.59	17.55	18.40
		8	4	17.64	17.67	17.51	18.40
		8	7	17.62	17.64	17.46	18.40
		15	0	17.67	17.52	17.51	18.40
	16QAM	1	0	18.03	17.57	17.94	18.40
		1	7	17.75	17.96	17.64	18.40
		1	14	18.07	17.71	17.78	18.40
		8	0	17.98	17.59	17.66	18.40
		8	4	17.68	17.60	17.59	18.40
		8	7	17.68	17.65	17.50	18.40
		15	0	17.64	17.55	17.55	18.40
	64QAM	1	0	17.74	17.70	17.45	18.40
		1	7	17.25	17.73	17.45	18.40
		1	14	17.70	17.58	17.50	18.40
		8	0	17.81	17.76	17.67	18.40
		8	4	17.85	17.73	17.51	18.40
		8	7	17.81	17.82	17.56	18.40
		15	0	17.83	17.60	17.64	18.40

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Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
5MHz	QPSK	1	0	17.53	17.59	17.51	18.40
		1	13	17.65	17.55	17.35	18.40
		1	24	17.58	17.58	17.70	18.40
		12	0	17.70	17.57	17.49	18.40
		12	6	17.70	17.66	17.52	18.40
		12	13	17.65	17.67	17.51	18.40
		25	0	17.72	17.59	17.44	18.40
	16QAM	1	0	17.73	17.32	18.05	18.40
		1	13	18.13	17.70	17.42	18.40
		1	24	18.13	17.83	17.67	18.40
		12	0	17.87	17.50	17.44	18.40
		12	6	17.68	17.60	17.39	18.40
		12	13	17.72	17.62	17.52	18.40
		25	0	17.76	17.57	17.46	18.40
	64QAM	1	0	17.78	17.65	17.72	18.40
		1	13	17.71	17.76	17.50	18.40
		1	24	17.62	17.72	17.89	18.40
		12	0	17.85	17.80	17.74	18.40
		12	6	17.92	17.73	17.62	18.40
		12	13	17.69	17.77	17.67	18.40
		25	0	17.86	17.68	17.47	18.40

Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350	Tune up
10MHz	QPSK	1	0	17.51	17.64	17.34	18.40
		1	25	17.38	17.36	17.52	18.40
		1	49	17.54	17.50	17.47	18.40
		25	0	17.59	17.57	17.38	18.40
		25	13	17.71	17.64	17.60	18.40
		25	25	17.64	17.66	17.57	18.40
		50	0	17.72	17.61	17.52	18.40
	16QAM	1	0	17.76	18.26	17.82	18.40
		1	25	17.76	18.03	17.52	18.40
		1	49	18.28	17.69	17.85	18.40
		25	0	17.79	17.61	17.45	18.40
		25	13	17.75	17.57	17.35	18.40
		25	25	17.59	17.61	17.46	18.40
		50	0	17.69	17.52	17.50	18.40
	64QAM	1	0	17.51	17.81	17.52	18.40
		1	25	17.51	17.50	17.73	18.40
		1	49	17.66	17.66	17.63	18.40
		25	0	17.70	17.76	17.62	18.40
		25	13	17.82	17.84	17.79	18.40
		25	25	17.76	17.86	17.65	18.40
		50	0	17.95	17.68	17.53	18.40

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Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	17.63	17.72	17.63	18.40
		1	38	17.70	17.56	17.49	18.40
		1	74	17.56	17.57	17.41	18.40
		36	0	17.78	17.82	17.81	18.40
		36	18	17.92	17.76	17.67	18.40
		36	39	17.83	17.77	17.69	18.40
		75	0	17.88	17.69	17.71	18.40
	16QAM	1	0	18.13	18.05	18.06	18.40
		1	38	18.08	18.12	17.88	18.40
		1	74	17.99	17.89	17.65	18.40
		36	0	17.85	17.74	17.71	18.40
		36	18	17.92	17.81	17.66	18.40
		36	39	17.89	17.82	17.71	18.40
		75	0	17.98	17.81	17.71	18.40
	64QAM	1	0	17.76	17.92	17.76	18.40
		1	38	17.70	17.75	17.53	18.40
		1	74	17.68	17.78	17.57	18.40
		36	0	17.88	17.97	17.99	18.40
		36	18	17.96	17.80	17.87	18.40
		36	39	18.06	17.91	17.85	18.40
		75	0	17.96	17.73	17.91	18.40

Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	17.81	17.72	17.58	18.40
		1	50	17.77	17.56	17.56	18.40
		1	99	17.64	17.75	17.63	18.40
		50	0	17.77	17.84	17.74	18.40
		50	25	17.92	17.82	17.71	18.40
		50	50	17.84	17.85	17.72	18.40
		100	0	17.91	17.74	17.70	18.40
	16QAM	1	0	17.93	17.89	18.01	18.40
		1	50	18.39	17.95	18.07	18.40
		1	99	18.37	17.70	17.78	18.40
		50	0	17.92	17.91	17.78	18.40
		50	25	17.91	17.76	17.57	18.40
		50	50	17.92	17.79	17.71	18.40
		100	0	17.84	17.80	17.66	18.40
	64QAM	1	0	17.75	17.39	17.53	18.40
		1	50	17.44	17.41	17.58	18.40
		1	99	17.52	17.58	17.19	18.40
		50	0	17.68	17.58	17.36	18.40
		50	25	17.83	17.70	17.47	18.40
		50	50	17.58	17.62	17.34	18.40
		100	0	17.62	17.65	17.37	18.40

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LTE Band 7 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	13.92	13.80	13.98	15.00
		1	13	13.90	14.07	14.15	15.00
		1	24	13.91	14.15	13.89	15.00
		12	0	13.97	13.90	14.00	15.00
		12	6	14.02	13.92	14.14	15.00
		12	13	13.95	13.95	14.10	15.00
		25	0	13.99	13.88	14.01	15.00
	16QAM	1	0	14.44	13.93	14.28	15.00
		1	13	14.56	13.75	14.41	15.00
		1	24	13.77	14.16	14.25	15.00
		12	0	13.97	13.85	14.13	15.00
		12	6	14.11	14.00	14.16	15.00
		12	13	14.06	13.97	14.08	15.00
		25	0	14.03	13.98	13.99	15.00
	64QAM	1	0	14.33	14.37	14.36	15.00
		1	13	14.08	14.51	14.54	15.00
		1	24	14.36	14.08	14.41	15.00
		12	0	14.32	14.39	14.28	15.00
		12	6	14.39	14.28	14.36	15.00
		12	13	14.20	14.23	14.34	15.00
		25	0	14.35	14.36	14.27	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	14.03	13.84	13.96	15.00
		1	25	14.12	14.08	14.18	15.00
		1	49	13.92	13.77	13.86	15.00
		25	0	14.04	13.89	14.03	15.00
		25	13	14.05	13.92	14.11	15.00
		25	25	13.98	13.92	14.08	15.00
		50	0	14.01	14.03	14.04	15.00
	16QAM	1	0	14.35	13.98	14.56	15.00
		1	25	14.07	13.85	14.00	15.00
		1	49	14.42	14.13	14.51	15.00
		25	0	13.93	14.04	14.08	15.00
		25	13	13.94	13.96	14.08	15.00
		25	25	13.93	13.96	14.15	15.00
		50	0	14.08	13.91	13.97	15.00
	64QAM	1	0	14.28	13.89	14.42	15.00
		1	25	14.51	14.60	14.33	15.00
		1	49	14.09	14.48	14.05	15.00
		25	0	14.27	14.13	14.20	15.00
		25	13	14.44	14.24	14.35	15.00
		25	25	14.40	14.32	14.33	15.00
		50	0	14.40	14.20	14.28	15.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	14.00	13.94	13.97	15.00
		1	38	13.85	14.16	14.13	15.00
		1	74	13.94	13.80	14.17	15.00
		36	0	14.18	14.04	14.11	15.00
		36	18	14.17	14.06	14.20	15.00
		36	39	14.16	14.15	14.26	15.00
		75	0	14.16	14.09	14.07	15.00
	16QAM	1	0	14.07	14.11	14.52	15.00
		1	38	14.27	14.23	14.27	15.00
		1	74	14.05	14.54	14.61	15.00
		36	0	14.05	14.18	14.15	15.00
		36	18	14.17	14.04	14.25	15.00
		36	39	14.14	14.11	14.24	15.00
		75	0	14.18	14.16	14.11	15.00
	64QAM	1	0	14.62	14.12	14.50	15.00
		1	38	14.17	14.60	14.09	15.00
		1	74	14.26	14.22	14.09	15.00
		36	0	14.48	14.44	14.49	15.00
		36	18	14.40	14.36	14.57	15.00
		36	39	14.50	14.48	14.51	15.00
		75	0	14.53	14.41	14.40	15.00

Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	13.88	13.98	13.97	15.00
		1	50	14.07	14.14	14.15	15.00
		1	99	14.08	14.15	14.02	15.00
		50	0	14.01	13.97	14.03	15.00
		50	25	14.06	14.02	14.02	15.00
		50	50	14.05	14.01	14.07	15.00
		100	0	14.07	14.07	14.15	15.00
	16QAM	1	0	14.42	13.86	14.36	15.00
		1	50	14.51	14.29	14.44	15.00
		1	99	14.31	14.58	14.38	15.00
		50	0	14.12	14.01	14.21	15.00
		50	25	14.13	13.93	14.19	15.00
		50	50	14.19	14.14	14.23	15.00
		100	0	14.07	14.02	14.16	15.00
	64QAM	1	0	14.57	14.42	14.46	15.00
		1	50	14.05	14.47	14.49	15.00
		1	99	14.55	14.44	14.35	15.00
		50	0	14.51	14.50	14.51	15.00
		50	25	14.11	14.31	14.56	15.00
		50	50	14.09	14.42	14.55	15.00
		100	0	14.48	14.34	14.48	15.00

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LTE Band 7 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	18.88	18.69	18.81	19.80
		1	13	18.87	18.83	18.95	19.80
		1	24	18.87	18.76	19.00	19.80
		12	0	19.01	18.82	18.95	19.80
		12	6	18.97	18.97	19.00	19.80
		12	13	19.00	18.95	19.01	19.80
		25	0	18.94	18.93	18.99	19.80
	16QAM	1	0	19.10	19.11	18.84	19.80
		1	13	19.00	18.92	19.36	19.80
		1	24	19.00	19.01	19.41	19.80
		12	0	18.95	18.82	18.99	19.80
		12	6	19.07	18.95	18.86	19.80
		12	13	19.07	18.95	19.03	19.80
		25	0	18.97	19.01	18.95	19.80
	64QAM	1	0	18.85	18.93	18.62	19.80
		1	13	18.75	18.76	19.16	19.80
		1	24	18.81	18.81	19.18	19.80
		12	0	18.73	18.60	18.79	19.80
		12	6	18.83	18.76	18.63	19.80
		12	13	18.87	18.76	18.86	19.80
		25	0	18.75	18.79	18.78	19.80
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	18.80	18.58	18.78	19.80
		1	25	18.73	18.73	18.87	19.80
		1	49	18.95	18.69	18.93	19.80
		25	0	18.91	18.91	18.89	19.80
		25	13	18.92	19.02	19.05	19.80
		25	25	19.02	18.90	19.01	19.80
		50	0	18.98	18.96	19.05	19.80
	16QAM	1	0	19.32	19.37	19.35	19.80
		1	25	19.40	19.09	19.42	19.80
		1	49	19.58	19.24	19.27	19.80
		25	0	18.86	18.79	18.87	19.80
		25	13	19.11	18.81	19.10	19.80
		25	25	19.14	18.90	19.15	19.80
		50	0	19.03	18.89	19.03	19.80
	64QAM	1	0	19.10	19.21	19.15	19.80
		1	25	19.19	18.85	19.17	19.80
		1	49	19.40	19.09	19.10	19.80
		25	0	18.62	18.56	18.72	19.80
		25	13	18.92	18.56	18.94	19.80
		25	25	18.90	18.71	18.93	19.80
		50	0	18.84	18.71	18.87	19.80

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	19.05	18.93	18.98	19.80
		1	38	19.17	19.00	19.14	19.80
		1	74	19.17	19.24	19.17	19.80
		36	0	19.20	19.04	19.14	19.80
		36	18	19.30	19.17	19.22	19.80
		36	39	19.36	19.18	19.28	19.80
		75	0	19.31	19.16	19.22	19.80
	16QAM	1	0	19.45	19.05	19.26	19.80
		1	38	19.56	19.32	19.66	19.80
		1	74	19.42	19.43	19.29	19.80
		36	0	19.30	19.00	19.18	19.80
		36	18	19.25	19.08	19.27	19.80
		36	39	19.31	19.14	19.26	19.80
		75	0	19.19	19.09	19.13	19.80
	64QAM	1	0	19.20	18.80	19.01	19.80
		1	38	19.37	19.13	19.50	19.80
		1	74	19.26	19.26	19.08	19.80
		36	0	19.07	18.77	18.96	19.80
		36	18	19.06	18.93	19.06	19.80
		36	39	19.07	18.96	19.09	19.80
		75	0	18.95	18.88	18.92	19.80
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	19.25	19.25	19.15	19.80
		1	50	18.90	19.01	18.98	19.80
		1	99	19.24	19.11	19.14	19.80
		50	0	19.36	19.03	19.10	19.80
		50	25	19.27	19.20	19.35	19.80
		50	50	19.23	19.10	19.33	19.80
		100	0	19.31	19.21	19.30	19.80
	16QAM	1	0	19.58	19.19	19.54	19.80
		1	50	19.64	19.29	19.40	19.80
		1	99	19.63	19.69	19.37	19.80
		50	0	19.11	19.00	19.20	19.80
		50	25	19.23	19.12	19.25	19.80
		50	50	19.28	19.24	19.32	19.80
		100	0	19.21	19.14	19.24	19.80
	64QAM	1	0	19.42	18.95	19.29	19.80
		1	50	19.41	19.13	19.20	19.80
		1	99	19.44	19.52	19.15	19.80
		50	0	18.94	18.77	18.96	19.80
		50	25	19.03	18.96	19.06	19.80
		50	50	19.11	19.07	19.13	19.80
		100	0	19.04	18.93	19.03	19.80

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LTE Band 7 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on/WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	12.93	12.86	13.01	14.00
		1	13	12.95	12.82	12.93	14.00
		1	24	12.82	12.83	12.90	14.00
		12	0	12.94	12.81	13.04	14.00
		12	6	13.01	12.95	13.07	14.00
		12	13	12.96	12.97	13.07	14.00
		25	0	12.98	12.95	12.96	14.00
	16QAM	1	0	13.07	13.18	13.26	14.00
		1	13	13.57	13.20	12.95	14.00
		1	24	13.17	13.06	13.24	14.00
		12	0	12.95	12.81	13.16	14.00
		12	6	13.09	12.93	13.18	14.00
		12	13	13.14	12.93	13.23	14.00
		25	0	13.06	12.98	13.15	14.00
	64QAM	1	0	13.18	13.38	12.96	14.00
		1	13	13.13	13.24	13.56	14.00
		1	24	13.02	13.13	13.06	14.00
		12	0	13.05	12.95	13.10	14.00
		12	6	13.23	12.98	13.25	14.00
		12	13	13.10	12.93	13.11	14.00
		25	0	13.11	12.93	13.13	14.00
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	12.88	12.80	12.90	14.00
		1	25	12.62	12.82	13.15	14.00
		1	49	12.78	12.57	13.00	14.00
		25	0	12.95	12.86	13.00	14.00
		25	13	12.94	12.90	13.04	14.00
		25	25	12.95	12.88	13.13	14.00
		50	0	13.01	13.03	13.02	14.00
	16QAM	1	0	13.03	13.06	13.13	14.00
		1	25	13.18	13.19	13.11	14.00
		1	49	13.00	12.91	13.05	14.00
		25	0	13.06	12.89	13.12	14.00
		25	13	13.01	13.05	12.97	14.00
		25	25	13.05	12.96	13.13	14.00
		50	0	12.98	12.98	13.08	14.00
	64QAM	1	0	13.40	12.84	13.09	14.00
		1	25	13.30	13.06	13.35	14.00
		1	49	13.43	12.41	13.21	14.00
		25	0	13.17	12.83	12.98	14.00
		25	13	13.04	12.94	13.21	14.00
		25	25	13.03	12.95	13.10	14.00
		50	0	13.06	12.92	12.96	14.00

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	13.04	12.91	13.06	14.00
		1	38	12.88	12.90	13.01	14.00
		1	74	12.89	12.71	12.93	14.00
		36	0	13.13	13.02	13.14	14.00
		36	18	13.12	12.99	13.18	14.00
		36	39	13.13	13.14	13.24	14.00
		75	0	13.09	13.08	13.23	14.00
	16QAM	1	0	13.23	13.10	13.34	14.00
		1	38	13.11	13.07	13.37	14.00
		1	74	13.20	12.73	12.90	14.00
		36	0	13.02	13.11	13.21	14.00
		36	18	13.18	13.08	13.23	14.00
		36	39	13.18	13.04	13.24	14.00
		75	0	13.17	13.15	13.20	14.00
	64QAM	1	0	13.26	12.96	13.42	14.00
		1	38	13.04	12.91	13.04	14.00
		1	74	13.40	12.53	12.98	14.00
		36	0	13.13	13.16	13.32	14.00
		36	18	13.19	13.01	13.13	14.00
		36	39	13.18	13.16	13.27	14.00
		75	0	13.13	13.13	13.14	14.00

Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	12.92	12.85	13.08	14.00
		1	50	13.02	13.21	13.11	14.00
		1	99	12.93	13.08	13.02	14.00
		50	0	13.04	13.03	13.13	14.00
		50	25	13.02	12.96	13.04	14.00
		50	50	13.02	12.98	13.06	14.00
		100	0	13.10	13.03	13.17	14.00
	16QAM	1	0	13.31	13.13	13.39	14.00
		1	50	13.47	13.34	13.36	14.00
		1	99	13.43	13.11	13.35	14.00
		50	0	13.14	13.12	13.14	14.00
		50	25	13.02	13.08	13.23	14.00
		50	50	13.13	13.07	13.17	14.00
		100	0	13.14	13.14	13.21	14.00
	64QAM	1	0	13.15	12.85	13.29	14.00
		1	50	12.90	12.96	13.53	14.00
		1	99	13.23	12.09	13.36	14.00
		50	0	13.25	13.21	13.27	14.00
		50	25	13.28	13.23	13.21	14.00
		50	50	13.24	13.20	13.33	14.00
		100	0	13.21	13.26	13.24	14.00

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LTE Band 7 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 20775	Channel 21100	Channel 21425	Tune up
5MHz	QPSK	1	0	16.78	16.64	16.68	17.70
		1	13	16.67	16.79	16.75	17.70
		1	24	16.94	16.64	16.62	17.70
		12	0	16.88	16.78	16.88	17.70
		12	6	16.95	16.79	16.79	17.70
		12	13	16.83	16.81	16.91	17.70
		25	0	16.92	16.78	16.82	17.70
	16QAM	1	0	17.29	16.93	16.95	17.70
		1	13	17.10	16.98	17.33	17.70
		1	24	17.04	17.16	16.73	17.70
		12	0	17.02	16.78	16.89	17.70
		12	6	16.89	16.74	16.89	17.70
		12	13	16.92	16.80	16.91	17.70
		25	0	16.92	16.81	16.91	17.70
	64QAM	1	0	17.07	16.70	16.76	17.70
		1	13	16.95	16.76	17.11	17.70
		1	24	16.84	17.01	16.58	17.70
		12	0	16.86	16.56	16.71	17.70
		12	6	16.73	16.54	16.71	17.70
		12	13	16.70	16.57	16.69	17.70
		25	0	16.74	16.59	16.74	17.70
Bandwidth	Modulation	RB size	RB offset	Channel 20800	Channel 21100	Channel 21400	Tune up
10MHz	QPSK	1	0	16.61	16.63	16.51	17.70
		1	25	16.81	16.84	16.68	17.70
		1	49	16.69	16.68	16.76	17.70
		25	0	16.95	16.71	16.90	17.70
		25	13	16.89	16.91	16.96	17.70
		25	25	16.92	16.83	17.02	17.70
		50	0	16.97	16.81	16.94	17.70
	16QAM	1	0	16.85	16.62	16.91	17.70
		1	25	17.07	16.82	16.70	17.70
		1	49	16.77	16.91	17.08	17.70
		25	0	16.91	16.79	16.83	17.70
		25	13	16.86	16.80	16.94	17.70
		25	25	16.95	16.86	17.02	17.70
		50	0	16.86	16.80	17.00	17.70
	64QAM	1	0	16.62	16.42	16.71	17.70
		1	25	16.86	16.58	16.46	17.70
		1	49	16.53	16.72	16.92	17.70
		25	0	16.72	16.55	16.66	17.70
		25	13	16.67	16.55	16.69	17.70
		25	25	16.78	16.67	16.78	17.70
		50	0	16.69	16.55	16.80	17.70

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Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375	Tune up
15MHz	QPSK	1	0	16.98	16.98	17.09	17.70
		1	38	16.92	17.04	17.15	17.70
		1	74	16.97	17.00	17.11	17.70
		36	0	17.10	16.98	17.07	17.70
		36	18	17.21	17.12	17.14	17.70
		36	39	17.18	17.17	17.22	17.70
		75	0	17.11	17.02	17.03	17.70
	16QAM	1	0	17.11	17.35	17.10	17.70
		1	38	17.24	17.08	17.09	17.70
		1	74	17.67	17.03	17.34	17.70
		36	0	17.11	16.97	17.09	17.70
		36	18	17.19	17.08	17.10	17.70
		36	39	17.20	17.10	17.26	17.70
		75	0	17.16	17.11	17.04	17.70
	64QAM	1	0	16.92	17.18	16.89	17.70
		1	38	17.04	16.85	16.89	17.70
		1	74	17.44	16.88	17.19	17.70
		36	0	16.94	16.80	16.84	17.70
		36	18	16.97	16.90	16.86	17.70
		36	39	17.01	16.89	17.09	17.70
		75	0	16.92	16.93	16.88	17.70
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	16.91	16.85	17.15	17.70
		1	50	17.03	17.10	16.90	17.70
		1	99	17.14	16.95	17.12	17.70
		50	0	17.05	16.95	17.10	17.70
		50	25	17.14	17.08	17.29	17.70
		50	50	17.14	17.08	17.17	17.70
		100	0	17.05	17.06	17.13	17.70
	16QAM	1	0	17.14	17.21	17.42	17.70
		1	50	17.53	17.15	17.44	17.70
		1	99	17.65	17.00	17.21	17.70
		50	0	17.13	17.08	17.04	17.70
		50	25	17.01	17.07	17.12	17.70
		50	50	17.24	17.18	17.22	17.70
		100	0	17.09	17.19	17.12	17.70
	64QAM	1	0	16.91	16.99	17.25	17.70
		1	50	17.38	16.96	17.23	17.70
		1	99	17.40	16.84	16.98	17.70
		50	0	16.98	16.89	16.87	17.70
		50	25	16.81	16.92	16.96	17.70
		50	50	16.99	17.02	17.01	17.70
		100	0	16.88	17.04	16.94	17.70

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LTE Band 38 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	15.49	15.39	15.35	16.50
		1	13	15.50	15.50	15.42	16.50
		1	24	15.46	15.44	15.42	16.50
		12	0	15.65	15.55	15.46	16.50
		12	6	15.56	15.55	15.51	16.50
		12	13	15.60	15.60	15.57	16.50
		25	0	15.62	15.51	15.47	16.50
	16QAM	1	0	15.75	15.60	15.61	16.50
		1	13	15.68	15.65	15.72	16.50
		1	24	15.66	15.64	15.64	16.50
		12	0	15.56	15.54	15.51	16.50
		12	6	15.50	15.51	15.46	16.50
		12	13	15.54	15.55	15.52	16.50
		25	0	15.59	15.52	15.47	16.50
	64QAM	1	0	15.51	15.43	15.34	16.50
		1	13	15.49	15.41	15.40	16.50
		1	24	15.37	15.39	15.31	16.50
		12	0	15.64	15.54	15.49	16.50
		12	6	15.61	15.62	15.49	16.50
		12	13	15.63	15.66	15.54	16.50
		25	0	15.66	15.55	15.42	16.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	15.67	15.62	15.54	16.50
		1	25	15.55	15.57	15.49	16.50
		1	49	15.57	15.38	15.59	16.50
		25	0	15.68	15.69	15.56	16.50
		25	13	15.63	15.57	15.62	16.50
		25	25	15.72	15.67	15.54	16.50
		50	0	15.69	15.52	15.55	16.50
	16QAM	1	0	15.69	15.68	15.64	16.50
		1	25	15.68	15.72	15.56	16.50
		1	49	15.57	15.61	15.53	16.50
		25	0	15.66	15.57	15.45	16.50
		25	13	15.57	15.61	15.55	16.50
		25	25	15.67	15.52	15.46	16.50
		50	0	15.70	15.66	15.54	16.50
	64QAM	1	0	15.61	15.59	15.84	16.50
		1	25	15.44	15.31	15.72	16.50
		1	49	15.47	15.40	15.28	16.50
		25	0	15.72	15.58	15.51	16.50
		25	13	15.78	15.62	15.50	16.50
		25	25	15.60	15.62	15.57	16.50
		50	0	15.58	15.55	15.46	16.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	15.67	15.65	15.60	16.50
		1	38	15.66	15.54	15.72	16.50
		1	74	15.57	15.50	15.72	16.50
		36	0	15.80	15.75	15.67	16.50
		36	18	15.82	15.70	15.66	16.50
		36	39	15.72	15.80	15.71	16.50
		75	0	15.84	15.68	15.74	16.50
	16QAM	1	0	15.92	15.76	15.72	16.50
		1	38	15.76	15.71	15.70	16.50
		1	74	15.82	15.82	15.73	16.50
		36	0	15.76	15.63	15.68	16.50
		36	18	15.76	15.72	15.66	16.50
		36	39	15.74	15.78	15.75	16.50
		75	0	15.85	15.74	15.77	16.50
	64QAM	1	0	15.73	15.58	15.65	16.50
		1	38	15.60	15.49	15.54	16.50
		1	74	15.50	15.57	15.51	16.50
		36	0	15.76	15.75	15.73	16.50
		36	18	15.90	15.80	15.64	16.50
		36	39	15.79	15.83	15.71	16.50
		75	0	15.83	15.75	15.63	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	15.78	15.77	15.78	16.50
		1	50	15.52	15.48	15.62	16.50
		1	99	15.65	15.66	15.66	16.50
		50	0	15.76	15.69	15.68	16.50
		50	25	15.77	15.72	15.78	16.50
		50	50	15.72	15.71	15.72	16.50
		100	0	15.72	15.73	15.75	16.50
	16QAM	1	0	15.71	15.84	15.77	16.50
		1	50	15.71	15.73	15.71	16.50
		1	99	15.79	15.77	15.76	16.50
		50	0	15.84	15.75	15.74	16.50
		50	25	15.70	15.72	15.81	16.50
		50	50	15.85	15.74	15.78	16.50
		100	0	15.84	15.76	15.76	16.50
	64QAM	1	0	15.58	15.77	15.64	16.50
		1	50	15.53	15.50	15.45	16.50
		1	99	15.53	15.51	15.44	16.50
		50	0	15.70	15.82	15.68	16.50
		50	25	15.81	15.82	15.79	16.50
		50	50	15.73	15.76	15.75	16.50
		100	0	15.86	15.81	15.82	16.50

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LTE Band 38 Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	20.31	20.24	20.22	21.30
		1	13	20.33	20.29	20.35	21.30
		1	24	20.19	20.26	20.25	21.30
		12	0	20.40	20.32	20.35	21.30
		12	6	20.40	20.29	20.28	21.30
		12	13	20.34	20.39	20.36	21.30
		25	0	20.36	20.32	20.27	21.30
	16QAM	1	0	20.43	20.31	20.40	21.30
		1	13	20.48	20.47	20.48	21.30
		1	24	20.38	20.53	20.34	21.30
		12	0	20.38	20.29	20.26	21.30
		12	6	20.43	20.34	20.33	21.30
		12	13	20.31	20.28	20.30	21.30
		25	0	20.43	20.34	20.29	21.30
	64QAM	1	0	20.36	20.19	20.06	21.30
		1	13	20.28	20.24	20.20	21.30
		1	24	20.26	20.13	20.14	21.30
		12	0	20.50	20.42	20.27	21.30
		12	6	20.44	20.46	20.39	21.30
		12	13	20.35	20.39	20.33	21.30
		25	0	20.39	20.36	20.23	21.30
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	20.34	20.24	20.21	21.30
		1	25	20.31	20.40	20.24	21.30
		1	49	20.31	20.21	20.24	21.30
		25	0	20.41	20.38	20.28	21.30
		25	13	20.41	20.34	20.26	21.30
		25	25	20.44	20.43	20.33	21.30
		50	0	20.44	20.24	20.30	21.30
	16QAM	1	0	20.44	20.40	20.32	21.30
		1	25	20.52	20.47	20.41	21.30
		1	49	20.44	20.42	20.37	21.30
		25	0	20.39	20.33	20.28	21.30
		25	13	20.39	20.33	20.31	21.30
		25	25	20.33	20.36	20.38	21.30
		50	0	20.48	20.37	20.31	21.30
	64QAM	1	0	20.42	20.49	20.27	21.30
		1	25	20.21	20.26	20.50	21.30
		1	49	20.65	20.38	20.52	21.30
		25	0	20.52	20.45	20.34	21.30
		25	13	20.36	20.44	20.38	21.30
		25	25	20.36	20.37	20.37	21.30
		50	0	20.48	20.39	20.26	21.30

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	20.44	20.42	20.40	21.30
		1	38	20.28	20.39	20.38	21.30
		1	74	20.42	20.33	20.35	21.30
		36	0	20.47	20.53	20.44	21.30
		36	18	20.58	20.51	20.52	21.30
		36	39	20.59	20.60	20.59	21.30
		75	0	20.58	20.50	20.49	21.30
	16QAM	1	0	20.67	20.52	20.56	21.30
		1	38	20.70	20.54	20.61	21.30
		1	74	20.65	20.66	20.63	21.30
		36	0	20.50	20.47	20.45	21.30
		36	18	20.51	20.53	20.38	21.30
		36	39	20.62	20.54	20.49	21.30
		75	0	20.69	20.56	20.59	21.30
	64QAM	1	0	20.44	20.50	20.45	21.30
		1	38	20.39	20.46	20.37	21.30
		1	74	20.31	20.44	20.35	21.30
		36	0	20.63	20.62	20.56	21.30
		36	18	20.70	20.48	20.51	21.30
		36	39	20.52	20.63	20.51	21.30
		75	0	20.66	20.65	20.50	21.30
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	20.51	20.61	20.66	21.30
		1	50	20.44	20.38	20.36	21.30
		1	99	20.41	20.37	20.34	21.30
		50	0	20.50	20.54	20.52	21.30
		50	25	20.65	20.64	20.62	21.30
		50	50	20.64	20.58	20.56	21.30
		100	0	20.63	20.58	20.57	21.30
	16QAM	1	0	20.63	20.57	20.66	21.30
		1	50	20.68	20.52	20.58	21.30
		1	99	20.60	20.56	20.53	21.30
		50	0	20.63	20.66	20.50	21.30
		50	25	20.62	20.58	20.59	21.30
		50	50	20.65	20.63	20.60	21.30
		100	0	20.61	20.61	20.66	21.30
	64QAM	1	0	20.73	20.56	20.60	21.30
		1	50	20.40	20.47	20.42	21.30
		1	99	20.34	20.35	20.41	21.30
		50	0	20.53	20.56	20.58	21.30
		50	25	20.67	20.53	20.49	21.30
		50	50	20.56	20.56	20.56	21.30
		100	0	20.79	20.59	20.63	21.30

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LTE Band 38 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	13.72	13.72	13.63	14.90
		1	13	13.83	13.83	13.81	14.90
		1	24	13.69	13.68	13.70	14.90
		12	0	13.80	13.80	13.76	14.90
		12	6	13.91	13.80	13.90	14.90
		12	13	13.84	13.85	13.87	14.90
		25	0	13.86	13.76	13.75	14.90
	16QAM	1	0	13.76	13.83	13.88	14.90
		1	13	13.97	13.84	13.99	14.90
		1	24	13.97	13.88	13.93	14.90
		12	0	13.88	13.81	13.78	14.90
		12	6	13.88	13.82	13.82	14.90
		12	13	13.81	13.76	13.79	14.90
		25	0	13.88	13.82	13.83	14.90
	64QAM	1	0	14.23	14.15	14.00	14.90
		1	13	14.19	14.20	14.15	14.90
		1	24	14.18	14.17	14.06	14.90
		12	0	14.65	14.57	14.37	14.90
		12	6	14.55	14.53	14.38	14.90
		12	13	14.58	14.57	14.44	14.90
		25	0	14.61	14.50	14.44	14.90
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	13.63	13.71	13.62	14.90
		1	25	13.84	13.82	13.80	14.90
		1	49	13.69	13.79	13.70	14.90
		25	0	13.82	13.79	13.76	14.90
		25	13	13.92	13.80	13.89	14.90
		25	25	13.85	13.85	13.87	14.90
		50	0	13.86	13.75	13.75	14.90
	16QAM	1	0	13.86	13.83	13.89	14.90
		1	25	13.99	13.97	13.91	14.90
		1	49	13.88	13.88	13.93	14.90
		25	0	13.88	13.80	13.78	14.90
		25	13	13.87	13.82	13.81	14.90
		25	25	13.80	13.85	13.78	14.90
		50	0	13.89	13.82	13.82	14.90
	64QAM	1	0	14.32	14.24	14.16	14.90
		1	25	14.16	14.11	14.05	14.90
		1	49	14.09	13.95	13.90	14.90
		25	0	14.74	14.49	14.54	14.90
		25	13	14.56	14.53	14.43	14.90
		25	25	14.55	14.51	14.43	14.90
		50	0	14.60	14.47	14.47	14.90

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	13.90	13.88	13.90	14.90
		1	38	13.87	13.88	13.86	14.90
		1	74	13.85	13.87	13.94	14.90
		36	0	13.94	13.97	13.92	14.90
		36	18	14.05	13.91	13.92	14.90
		36	39	14.05	14.02	13.97	14.90
		75	0	14.05	14.00	13.90	14.90
	16QAM	1	0	13.99	14.04	14.02	14.90
		1	38	14.05	14.01	13.94	14.90
		1	74	14.07	13.99	14.09	14.90
		36	0	14.00	13.87	13.94	14.90
		36	18	14.02	13.91	13.92	14.90
		36	39	14.05	14.01	13.99	14.90
		75	0	14.06	14.03	13.96	14.90
	64QAM	1	0	14.38	14.33	14.21	14.90
		1	38	14.37	14.31	14.28	14.90
		1	74	14.33	14.25	14.20	14.90
		36	0	14.71	14.68	14.71	14.90
		36	18	14.79	14.59	14.57	14.90
		36	39	14.66	14.63	14.63	14.90
		75	0	14.70	14.60	14.55	14.90
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	13.88	13.95	13.97	14.90
		1	50	13.93	13.85	13.78	14.90
		1	99	13.84	13.94	13.90	14.90
		50	0	13.94	14.03	13.94	14.90
		50	25	14.03	13.95	14.05	14.90
		50	50	14.04	14.09	13.99	14.90
		100	0	14.13	13.93	13.91	14.90
	16QAM	1	0	14.20	14.03	13.99	14.90
		1	50	14.03	14.06	13.97	14.90
		1	99	14.08	14.07	14.14	14.90
		50	0	14.04	14.10	14.00	14.90
		50	25	14.05	13.91	14.01	14.90
		50	50	14.07	14.03	13.95	14.90
		100	0	14.07	14.02	13.97	14.90
	64QAM	1	0	14.29	14.31	14.34	14.90
		1	50	14.38	14.35	14.30	14.90
		1	99	14.27	14.32	14.23	14.90
		50	0	14.76	14.72	14.71	14.90
		50	25	14.78	14.68	14.71	14.90
		50	50	14.74	14.74	14.68	14.90
		100	0	14.69	14.62	14.72	14.90

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LTE Band 38 WWAN+WLAN 2.4G Receiver on/ WWAN+WLAN 2.4G(Chain1)+BT Receiver on/ WWAN+WLAN 5G Receiver on/ WWAN+WLAN 5G+BT Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	14.11	14.15	14.16	15.40
		1	13	14.22	14.27	14.24	15.40
		1	24	14.16	14.23	14.13	15.40
		12	0	14.36	14.31	14.29	15.40
		12	6	14.36	14.32	14.41	15.40
			13	14.41	14.39	14.30	15.40
		25	0	14.33	14.28	14.28	15.40
	16QAM	1	0	14.65	14.40	14.41	15.40
		1	13	14.58	14.55	14.65	15.40
		1	24	14.58	14.63	14.46	15.40
		12	0	14.48	14.45	14.43	15.40
		12	6	14.48	14.36	14.34	15.40
		12	13	14.42	14.40	14.44	15.40
		25	0	14.50	14.48	14.36	15.40
	64QAM	1	0	14.23	14.14	15.21	15.40
		1	13	14.26	14.18	15.27	15.40
		1	24	14.15	14.24	15.17	15.40
		12	0	14.62	14.53	15.01	15.40
		12	6	14.62	14.63	14.53	15.40
		12	13	14.55	14.67	14.58	15.40
		25	0	14.59	14.59	14.59	15.40
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	14.12	14.21	14.20	15.40
		1	25	14.32	14.32	14.28	15.40
		1	49	14.17	14.17	14.17	15.40
		25	0	14.36	14.37	14.33	15.40
		25	13	14.36	14.38	14.36	15.40
		25	25	14.39	14.34	14.33	15.40
		50	0	14.31	14.33	14.32	15.40
	16QAM	1	0	14.62	14.44	14.46	15.40
		1	25	14.55	14.60	14.56	15.40
		1	49	14.64	14.59	14.63	15.40
		25	0	14.54	14.40	14.48	15.40
		25	13	14.44	14.41	14.39	15.40
		25	25	14.48	14.45	14.35	15.40
		50	0	14.56	14.42	14.39	15.40
	64QAM	1	0	14.78	14.91	14.79	15.40
		1	25	14.63	14.78	14.70	15.40
		1	49	14.38	14.82	14.48	15.40
		25	0	15.02	15.09	15.18	15.40
		25	13	14.94	15.17	15.05	15.40
		25	25	14.94	15.13	15.17	15.40
		50	0	14.99	15.08	15.10	15.40

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Bandwidth	Modulation	RB size	RB offset	Channel 37825	Channel 38000	Channel 38175	Tune up
15MHz	QPSK	1	0	14.34	14.38	14.32	15.40
		1	38	14.41	14.45	14.36	15.40
		1	74	14.45	14.35	14.33	15.40
		36	0	14.45	14.48	14.52	15.40
		36	18	14.58	14.52	14.42	15.40
		36	39	14.48	14.53	14.48	15.40
		75	0	14.58	14.41	14.41	15.40
	16QAM	1	0	14.81	14.61	14.66	15.40
		1	38	14.71	14.64	14.64	15.40
		1	74	14.71	14.69	14.71	15.40
		36	0	14.58	14.69	14.53	15.40
		36	18	14.68	14.53	14.66	15.40
		36	39	14.71	14.64	14.61	15.40
		75	0	14.75	14.56	14.55	15.40
	64QAM	1	0	14.79	14.95	14.82	15.40
		1	38	14.74	14.99	14.89	15.40
		1	74	14.73	14.95	14.85	15.40
		36	0	14.82	15.05	14.99	15.40
		36	18	14.90	14.96	14.83	15.40
		36	39	14.90	15.01	14.91	15.40
		75	0	14.91	15.00	14.87	15.40

Bandwidth	Modulation	RB size	RB offset	Channel 37850	Channel 38000	Channel 38150	Tune up
20MHz	QPSK	1	0	14.42	14.45	14.36	15.40
		1	50	14.37	14.30	14.27	15.40
		1	99	14.43	14.31	14.28	15.40
		50	0	14.52	14.52	14.55	15.40
		50	25	14.52	14.46	14.53	15.40
		50	50	14.44	14.55	14.49	15.40
		100	0	14.53	14.53	14.51	15.40
	16QAM	1	0	14.71	14.69	14.71	15.40
		1	50	14.66	14.67	14.66	15.40
		1	99	14.69	14.64	14.75	15.40
		50	0	14.70	14.69	14.55	15.40
		50	25	14.71	14.62	14.59	15.40
		50	50	14.70	14.83	14.69	15.40
		100	0	14.70	14.59	14.72	15.40
	64QAM	1	0	14.54	14.60	14.52	15.40
		1	50	14.43	14.40	14.32	15.40
		1	99	14.37	14.33	14.33	15.40
		50	0	14.71	14.76	14.71	15.40
		50	25	14.78	14.66	14.68	15.40
		50	50	14.65	14.63	14.62	15.40
		100	0	14.87	14.74	14.79	15.40

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LTE Band 38 WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver off/WWAN+WLAN 2.4G Receiver off/ WWAN+WLAN 2.4G(Chain1)+BT Receiver off/ WWAN+WLAN 5G Receiver off/ WWAN+WLAN 5G+BT Receiver off				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 37775	Channel 38000	Channel 38225	Tune up
5MHz	QPSK	1	0	18.56	18.38	18.39	19.50
		1	13	18.56	18.58	18.53	19.50
		1	24	18.52	18.47	18.42	19.50
		12	0	18.63	18.51	18.48	19.50
		12	6	18.57	18.51	18.53	19.50
		12	13	18.60	18.56	18.50	19.50
		25	0	18.61	18.48	18.49	19.50
	16QAM	1	0	18.80	18.46	18.53	19.50
		1	13	18.64	18.60	18.60	19.50
		1	24	18.71	18.57	18.59	19.50
		12	0	18.60	18.56	18.50	19.50
		12	6	18.57	18.47	18.47	19.50
		12	13	18.52	18.52	18.49	19.50
		25	0	18.68	18.52	18.53	19.50
	64QAM	1	0	18.49	18.34	18.14	19.50
		1	13	18.36	18.35	18.33	19.50
		1	24	18.34	18.40	18.22	19.50
		12	0	18.70	18.66	18.55	19.50
		12	6	18.70	18.66	18.52	19.50
		12	13	18.70	18.65	18.65	19.50
		25	0	18.73	18.67	18.60	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 37800	Channel 38000	Channel 38200	Tune up
10MHz	QPSK	1	0	18.59	18.41	18.45	19.50
		1	25	18.57	18.54	18.49	19.50
		1	49	18.42	18.46	18.47	19.50
		25	0	18.63	18.47	18.53	19.50
		25	13	18.66	18.47	18.49	19.50
		25	25	18.60	18.52	18.56	19.50
		50	0	18.60	18.53	18.52	19.50
	16QAM	1	0	18.74	18.52	18.54	19.50
		1	25	18.57	18.68	18.61	19.50
		1	49	18.78	18.65	18.55	19.50
		25	0	18.61	18.53	18.47	19.50
		25	13	18.64	18.49	18.52	19.50
		25	25	18.58	18.56	18.54	19.50
		50	0	18.67	18.56	18.50	19.50
	64QAM	1	0	18.36	18.37	18.28	19.50
		1	25	18.35	18.37	18.32	19.50
		1	49	18.13	18.37	18.03	19.50
		25	0	18.81	18.72	18.68	19.50
		25	13	18.84	18.63	18.59	19.50
		25	25	18.62	18.78	18.64	19.50
		50	0	18.58	18.61	18.53	19.50

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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37825	38000	38175	
15MHz	QPSK	1	0	18.57	18.60	18.50	19.50
		1	38	18.64	18.54	18.64	19.50
		1	74	18.69	18.66	18.62	19.50
		36	0	18.81	18.70	18.71	19.50
		36	18	18.85	18.77	18.70	19.50
		36	39	18.78	18.75	18.73	19.50
		75	0	18.76	18.73	18.69	19.50
	16QAM	1	0	18.88	18.79	18.73	19.50
		1	38	18.77	18.72	18.71	19.50
		1	74	18.66	18.90	18.77	19.50
		36	0	18.71	18.67	18.63	19.50
		36	18	18.73	18.68	18.68	19.50
		36	39	18.80	18.74	18.70	19.50
		75	0	18.86	18.72	18.74	19.50
	64QAM	1	0	18.47	18.41	18.40	19.50
		1	38	18.48	18.44	18.40	19.50
		1	74	18.41	18.50	18.32	19.50
		36	0	18.79	18.81	18.78	19.50
		36	18	18.89	18.77	18.70	19.50
		36	39	18.86	18.74	18.81	19.50
		75	0	18.88	18.77	18.72	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				37850	38000	38150	
20MHz	QPSK	1	0	18.78	18.65	18.55	19.50
		1	50	18.59	18.46	18.60	19.50
		1	99	18.59	18.61	18.49	19.50
		50	0	18.69	18.73	18.70	19.50
		50	25	18.93	18.70	18.82	19.50
		50	50	18.74	18.79	18.74	19.50
		100	0	18.59	18.94	18.80	19.50
	16QAM	1	0	18.78	18.86	18.83	19.50
		1	50	18.78	18.78	18.81	19.50
		1	99	18.83	18.64	18.81	19.50
		50	0	18.70	18.76	18.82	19.50
		50	25	18.75	18.70	18.74	19.50
		50	50	18.82	18.73	18.78	19.50
		100	0	18.82	18.76	18.85	19.50
	64QAM	1	0	18.87	18.79	18.56	19.50
		1	50	18.59	18.68	18.56	19.50
		1	99	18.53	18.62	18.47	19.50
		50	0	18.77	18.77	18.84	19.50
		50	25	18.79	18.77	18.90	19.50
		50	50	18.79	18.85	18.85	19.50
		100	0	18.88	18.81	18.83	19.50

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LTE Band 41 (class 2&3) Receiver on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	15.77	15.84	15.68	15.78	15.84	16.40
		1	13	15.87	15.89	15.94	15.87	15.89	16.40
		1	24	15.81	15.72	15.77	15.75	15.80	16.40
		12	0	15.92	15.98	15.85	15.92	16.00	16.40
		12	6	15.97	16.01	15.99	16.02	16.09	16.40
		12	13	15.97	15.98	15.96	15.96	16.11	16.40
		25	0	15.92	15.96	15.94	15.98	16.03	16.40
	16QAM	1	0	16.16	16.11	16.18	16.18	16.05	16.40
		1	13	16.19	16.03	16.28	16.02	16.01	16.40
		1	24	16.13	16.25	16.20	16.28	16.02	16.40
		12	0	15.95	16.05	15.97	15.96	16.08	16.40
		12	6	15.97	16.10	15.99	15.98	16.07	16.40
		12	13	16.08	16.07	15.95	16.05	16.04	16.40
		25	0	15.98	16.01	16.04	15.99	15.97	16.40
	64QAM	1	0	16.13	15.88	16.07	16.08	16.14	16.40
		1	13	16.15	16.22	16.19	16.16	16.19	16.40
		1	24	16.19	16.00	16.11	16.05	16.12	16.40
		12	0	16.21	16.05	16.15	16.15	16.18	16.40
		12	6	16.20	16.20	16.25	16.16	16.21	16.40
		12	13	16.16	16.17	16.20	16.10	16.08	16.40
		25	0	16.22	16.19	16.19	16.12	16.17	16.40
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	16.13	15.83	15.78	15.74	16.21	16.40
		1	25	15.77	15.73	16.14	16.18	15.84	16.40
		1	49	15.69	15.89	15.82	15.76	15.85	16.40
		25	0	15.95	15.97	15.95	15.86	16.00	16.40
		25	13	16.01	16.04	16.02	15.96	16.02	16.40
		25	25	15.95	16.00	15.96	15.96	16.14	16.40
		50	0	15.97	15.98	15.95	15.90	16.06	16.40
	16QAM	1	0	16.17	16.15	16.04	16.18	16.05	16.40
		1	25	16.08	16.15	16.11	16.18	16.17	16.40
		1	49	16.21	16.20	16.03	16.08	16.26	16.40
		25	0	16.09	16.03	15.82	15.99	15.93	16.40
		25	13	15.98	15.95	16.01	15.99	15.93	16.40
		25	25	15.93	16.02	16.04	16.00	16.04	16.40
		50	0	16.08	16.05	16.07	15.97	16.05	16.40
	64QAM	1	0	16.03	16.14	16.20	16.13	16.03	16.40
		1	25	16.02	16.03	16.14	16.11	16.09	16.40
		1	49	16.24	16.09	16.21	16.15	16.15	16.40
		25	0	16.19	16.08	16.20	16.07	16.22	16.40
		25	13	16.22	16.27	16.29	16.18	16.28	16.40
		25	25	16.25	16.15	16.23	16.09	16.10	16.40
		50	0	16.17	16.06	16.17	16.01	16.15	16.40

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Bandwidth	Modulation	RB size	RB offset	Channel 39725	Channel 40173	Channel 40620	Channel 41068	Channel 41515	Tune up
15MHz	QPSK	1	0	16.08	16.15	16.19	16.07	16.21	16.40
		1	38	16.05	16.17	16.17	16.16	16.16	16.40
		1	74	16.09	16.16	16.23	16.07	16.30	16.40
		36	0	16.18	16.10	16.30	16.10	16.27	16.40
		36	18	16.22	16.29	16.21	16.11	16.26	16.40
		36	39	16.20	16.21	16.23	16.22	16.26	16.40
		75	0	16.25	16.21	16.21	16.32	16.07	16.40
	16QAM	1	0	16.08	16.02	16.05	16.09	16.05	16.40
		1	38	16.28	16.31	16.02	16.31	16.10	16.40
		1	74	16.33	16.00	16.08	16.08	16.09	16.40
		36	0	16.19	16.24	16.23	16.18	16.27	16.40
		36	18	16.19	16.30	16.11	16.14	16.32	16.40
		36	39	16.23	16.30	16.26	16.17	16.02	16.40
		75	0	16.15	16.32	16.31	16.29	16.01	16.40
	64QAM	1	0	16.13	16.12	16.20	16.13	16.24	16.40
		1	38	16.17	16.18	16.17	16.09	16.19	16.40
		1	74	15.98	16.26	16.16	16.19	16.06	16.40
		36	0	16.22	16.30	16.30	16.17	16.26	16.40
		36	18	16.30	16.17	16.22	16.23	16.25	16.40
		36	39	16.29	16.24	16.28	16.26	16.07	16.40
		75	0	16.27	16.29	16.04	16.25	16.07	16.40
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Channel 39750**	**Channel 40185**	**Channel 40620**	**Channel 41055**	**Channel 41490**	**Tune up**
20MHz	QPSK	1	0	16.07	16.25	16.35	16.24	16.34	16.40
		1	50	16.01	16.24	16.16	16.01	16.16	16.40
		1	99	16.00	16.04	15.93	16.14	16.35	16.40
		50	0	16.18	16.25	16.30	16.12	16.25	16.40
		50	25	16.19	16.23	16.21	16.23	16.22	16.40
		50	50	16.14	16.19	16.24	16.12	16.26	16.40
		100	0	16.23	16.22	16.18	16.21	16.20	16.40
	16QAM	1	0	16.11	16.31	16.01	16.09	16.08	16.40
		1	50	15.97	16.19	16.05	16.18	16.16	16.40
		1	99	15.95	16.22	16.04	16.20	16.25	16.40
		50	0	16.11	16.23	16.21	16.16	16.10	16.40
		50	25	16.22	16.23	16.28	16.28	16.31	16.40
		50	50	16.13	16.26	16.19	16.19	16.33	16.40
		100	0	16.20	16.21	16.21	16.27	16.28	16.40
	64QAM	1	0	16.20	16.11	16.25	16.16	16.27	16.40
		1	50	16.03	16.08	16.25	16.07	16.25	16.40
		1	99	16.02	15.91	16.28	16.15	16.34	16.40
		50	0	16.27	16.21	16.30	16.23	16.06	16.40
		50	25	16.27	16.30	16.01	16.33	16.04	16.40
		50	50	16.24	16.32	16.29	16.25	16.01	16.40
		100	0	16.27	16.28	16.15	16.24	16.04	16.40

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LTE Band 41 (class 2&3) Receiver off				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	19.07	19.05	19.00	18.95	18.93	19.50
		1	13	19.17	19.04	19.08	19.06	19.05	19.50
		1	24	19.07	19.04	18.99	18.96	19.02	19.50
		12	0	19.26	19.23	19.16	19.11	19.08	19.50
		12	6	19.20	19.25	19.24	19.24	19.16	19.50
		12	13	19.21	19.22	19.22	19.16	19.24	19.50
		25	0	19.18	19.22	19.12	19.09	19.13	19.50
	16QAM	1	0	19.37	19.31	19.31	19.26	19.32	19.50
		1	13	19.42	19.38	19.43	19.36	19.35	19.50
		1	24	19.32	19.38	19.34	19.28	19.30	19.50
		12	0	19.25	19.28	19.20	19.17	19.14	19.50
		12	6	19.25	19.31	19.28	19.33	19.13	19.50
		12	13	19.29	19.28	19.24	19.21	19.23	19.50
		25	0	19.30	19.20	19.23	19.23	19.19	19.50
	64QAM	1	0	19.01	19.04	18.96	18.90	18.98	19.50
		1	13	19.17	19.09	19.13	19.09	19.08	19.50
		1	24	19.01	19.08	19.06	18.95	18.98	19.50
		12	0	19.30	19.21	19.24	19.16	19.01	19.50
		12	6	19.18	19.26	19.28	19.22	19.22	19.50
		12	13	19.15	19.23	19.24	19.16	19.23	19.50
		25	0	19.20	19.28	19.15	19.10	19.14	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	18.98	18.95	18.92	18.95	18.99	19.50
		1	25	19.09	18.96	18.91	18.92	18.92	19.50
		1	49	19.12	18.85	19.08	18.99	19.08	19.50
		25	0	19.11	19.07	19.19	19.14	19.05	19.50
		25	13	19.22	19.20	19.13	19.10	19.27	19.50
		25	25	19.15	19.17	19.16	19.14	19.27	19.50
		50	0	19.23	19.22	19.13	19.20	19.15	19.50
	16QAM	1	0	19.33	19.10	19.31	19.37	19.31	19.50
		1	25	19.01	19.38	19.30	19.29	19.38	19.50
		1	49	19.10	19.32	19.27	19.31	19.23	19.50
		25	0	19.23	19.18	19.06	19.11	18.99	19.50
		25	13	19.17	19.28	19.20	19.23	19.19	19.50
		25	25	19.16	19.32	19.19	19.14	19.19	19.50
		50	0	19.37	19.27	19.22	19.26	19.29	19.50
	64QAM	1	0	18.98	18.98	18.96	18.90	19.00	19.50
		1	25	19.03	18.97	18.87	18.90	18.90	19.50
		1	49	19.13	18.89	19.05	18.97	19.11	19.50
		25	0	19.18	19.01	19.21	19.10	19.07	19.50
		25	13	19.33	19.20	19.15	19.11	19.23	19.50
		25	25	19.20	19.24	19.13	19.18	19.24	19.50
		50	0	19.24	19.26	19.14	19.12	19.19	19.50

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Bandwidth	Modulation	RB size	RB offset	Channel 39725	Channel 40173	Channel 40620	Channel 41068	Channel 41515	Tune up
15MHz	QPSK	1	0	19.18	19.24	19.20	19.22	19.15	19.50
		1	38	19.16	19.08	19.06	19.07	19.14	19.50
		1	74	19.33	19.24	19.29	19.27	19.22	19.50
		36	0	19.32	19.28	19.25	19.33	19.27	19.50
		36	18	19.05	19.31	19.38	19.13	19.26	19.50
		36	39	19.04	19.32	19.23	19.22	19.31	19.50
		75	0	19.02	19.02	19.29	19.28	19.28	19.50
	16QAM	1	0	19.28	19.26	19.31	19.31	19.14	19.50
		1	38	19.14	19.13	19.28	19.30	19.17	19.50
		1	74	19.29	19.36	19.31	19.37	19.31	19.50
		36	0	19.39	19.24	19.23	19.30	19.22	19.50
		36	18	19.39	19.40	19.38	19.40	19.19	19.50
		36	39	19.08	19.30	19.15	19.07	19.27	19.50
		75	0	19.18	19.38	19.34	19.35	19.24	19.50
	64QAM	1	0	19.17	19.14	19.20	19.18	19.13	19.50
		1	38	19.20	19.14	19.08	19.11	19.10	19.50
		1	74	19.38	19.24	19.25	19.20	19.21	19.50
		36	0	19.37	19.30	19.22	19.29	19.28	19.50
		36	18	19.28	19.11	19.34	19.40	19.30	19.50
		36	39	19.05	19.40	19.27	19.24	19.33	19.50
		75	0	19.40	19.12	19.36	19.29	19.23	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490	Tune up
20MHz	QPSK	1	0	19.19	19.17	19.17	19.45	19.10	19.50
		1	50	19.45	19.11	19.16	19.32	19.15	19.50
		1	99	19.17	19.41	19.19	19.22	19.00	19.50
		50	0	19.29	19.29	19.41	19.32	19.22	19.50
		50	25	19.38	19.39	19.24	19.20	19.31	19.50
		50	50	19.40	19.25	19.36	19.35	19.34	19.50
		100	0	19.13	19.36	19.28	19.21	19.35	19.50
	16QAM	1	0	19.03	19.37	19.01	19.14	19.43	19.50
		1	50	19.37	19.01	19.01	19.01	19.05	19.50
		1	99	19.03	19.07	19.37	19.38	19.05	19.50
		50	0	19.40	19.27	19.36	19.13	19.34	19.50
		50	25	19.36	19.36	19.29	19.35	19.41	19.50
		50	50	19.41	19.42	19.36	19.37	19.27	19.50
		100	0	19.03	19.39	19.28	19.23	19.37	19.50
	64QAM	1	0	19.26	19.20	19.09	19.19	19.16	19.50
		1	50	19.04	19.10	19.03	19.09	19.12	19.50
		1	99	19.22	19.12	19.19	19.22	19.00	19.50
		50	0	19.37	19.36	19.40	19.29	19.19	19.50
		50	25	19.34	19.37	19.19	19.18	19.28	19.50
		50	50	19.31	19.26	19.35	19.27	19.30	19.50
		100	0	19.34	19.35	19.18	19.20	19.30	19.50

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LTE Band 41 (class 2&3) WWAN+WLAN 2.4G(Chain0)+WLAN 5G(Chain1) Receiver on				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel 39675	Channel 40148	Channel 40620	Channel 41093	Channel 41565	Tune up
5MHz	QPSK	1	0	14.48	14.26	14.42	14.30	14.37	15.00
		1	13	14.47	14.41	14.49	14.52	14.50	15.00
		1	24	14.34	14.34	14.52	14.40	14.49	15.00
		12	0	14.60	14.55	14.56	14.53	14.69	15.00
		12	6	14.55	14.59	14.60	14.53	14.76	15.00
		12	13	14.53	14.54	14.57	14.60	14.66	15.00
		25	0	14.49	14.54	14.55	14.49	14.61	15.00
	16QAM	1	0	14.71	14.71	14.76	14.69	14.81	15.00
		1	13	14.73	14.79	14.82	14.72	14.86	15.00
		1	24	14.68	14.69	14.70	14.77	14.84	15.00
		12	0	14.72	14.72	14.71	14.54	14.74	15.00
		12	6	14.78	14.75	14.76	14.68	14.73	15.00
		12	13	14.76	14.71	14.73	14.74	14.84	15.00
		25	0	14.74	14.72	14.82	14.63	14.79	15.00
	64QAM	1	0	14.02	14.71	14.80	14.70	14.81	15.00
		1	13	14.80	14.77	14.09	14.85	14.18	15.00
		1	24	14.85	14.70	14.84	14.78	14.85	15.00
		12	0	14.76	14.63	14.75	14.58	14.70	15.00
		12	6	14.72	14.67	14.80	14.60	14.77	15.00
		12	13	14.72	14.62	14.66	14.67	14.77	15.00
		25	0	14.74	14.59	14.72	14.50	14.71	15.00
Bandwidth	Modulation	RB size	RB offset	Channel 39700	Channel 40160	Channel 40620	Channel 41080	Channel 41540	Tune up
10MHz	QPSK	1	0	14.38	14.33	14.45	14.37	14.44	15.00
		1	25	14.24	14.31	14.40	14.46	14.46	15.00
		1	49	14.23	14.25	14.51	14.37	14.51	15.00
		25	0	14.55	14.41	14.52	14.45	14.59	15.00
		25	13	14.53	14.55	14.68	14.55	14.71	15.00
		25	25	14.51	14.64	14.65	14.57	14.72	15.00
		50	0	14.50	14.50	14.53	14.50	14.55	15.00
	16QAM	1	0	14.83	14.72	14.72	14.75	14.87	15.00
		1	25	14.88	14.89	14.86	14.83	14.72	15.00
		1	49	14.09	14.75	14.79	14.84	14.76	15.00
		25	0	14.79	14.56	14.56	14.69	14.67	15.00
		25	13	14.77	14.73	14.74	14.57	14.68	15.00
		25	25	14.77	14.68	14.68	14.70	14.79	15.00
		50	0	14.75	14.70	14.79	14.65	14.75	15.00
	64QAM	1	0	14.16	14.72	14.79	14.87	14.75	15.00
		1	25	14.75	14.15	14.81	14.75	14.74	15.00
		1	49	14.71	14.67	14.82	14.72	14.86	15.00
		25	0	14.70	14.47	14.58	14.58	14.68	15.00
		25	13	14.68	14.72	14.75	14.58	14.80	15.00
		25	25	14.65	14.54	14.60	14.59	14.71	15.00
		50	0	14.75	14.68	14.70	14.53	14.75	15.00

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Bandwidth	Modulation	RB size	RB offset	Channel 39725	Channel 40173	Channel 40620	Channel 41068	Channel 41515	Tune up
15MHz	QPSK	1	0	14.56	14.54	14.75	14.61	14.80	15.00
		1	38	14.53	14.55	14.68	14.61	14.75	15.00
		1	74	14.50	14.56	14.70	14.60	14.87	15.00
		36	0	14.71	14.71	14.78	14.70	14.81	15.00
		36	18	14.78	14.77	14.70	14.75	14.79	15.00
		36	39	14.68	14.68	14.81	14.72	14.80	15.00
		75	0	14.69	14.79	14.70	14.74	14.80	15.00
	16QAM	1	0	14.89	14.87	14.87	14.92	14.86	15.00
		1	38	14.93	14.08	14.09	14.49	14.57	15.00
		1	74	14.91	14.76	14.51	14.59	14.78	15.00
		36	0	14.81	14.73	14.80	14.81	14.45	15.00
		36	18	14.81	14.80	14.82	14.75	14.54	15.00
		36	39	14.80	14.81	14.46	14.76	14.54	15.00
		75	0	14.78	14.85	14.48	14.78	14.48	15.00
	64QAM	1	0	14.87	14.80	14.54	14.84	14.90	15.00
		1	38	14.64	14.67	14.92	14.69	14.82	15.00
		1	74	14.73	14.78	14.89	14.80	14.75	15.00
		36	0	14.80	14.67	14.88	14.89	14.93	15.00
		36	18	14.87	14.88	14.80	14.67	14.81	15.00
		36	39	14.88	14.77	14.91	14.84	14.91	15.00
		75	0	14.91	14.92	14.91	14.86	14.75	15.00

Bandwidth	Modulation	RB size	RB offset	Channel 39750	Channel 40185	Channel 40620	Channel 41055	Channel 41490	Tune up
20MHz	QPSK	1	0	14.58	14.42	14.64	14.62	14.52	15.00
		1	50	14.46	14.49	14.57	14.52	14.60	15.00
		1	99	14.32	14.47	14.63	14.59	14.59	15.00
		50	0	14.71	14.69	14.86	14.73	14.76	15.00
		50	25	14.77	14.74	14.67	14.72	14.84	15.00
		50	50	14.71	14.80	14.81	14.70	14.81	15.00
		100	0	14.72	14.75	14.67	14.71	14.82	15.00
	16QAM	1	0	14.82	14.85	14.86	14.81	14.82	15.00
		1	50	14.83	14.84	14.88	14.81	14.75	15.00
		1	99	14.73	14.78	14.80	14.87	14.94	15.00
		50	0	14.71	14.69	14.75	14.64	14.65	15.00
		50	25	14.65	14.73	14.79	14.72	14.73	15.00
		50	50	14.61	14.79	14.70	14.71	14.80	15.00
		100	0	14.71	14.73	14.76	14.71	14.70	15.00
	64QAM	1	0	14.82	14.68	14.78	14.76	14.83	15.00
		1	50	14.76	14.76	14.80	14.75	14.75	15.00
		1	99	14.64	14.68	14.82	14.76	14.82	15.00
		50	0	14.84	14.81	14.77	14.75	14.86	15.00
		50	25	14.88	14.75	14.91	14.73	14.84	15.00
		50	50	14.73	14.90	14.82	14.72	14.91	15.00
		100	0	14.91	14.94	14.77	14.92	14.91	15.00

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