




TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR23-SPF0043-B Page (1) of (910)	 KCTL
1. Client		
<ul style="list-style-type: none"> ◦ Name : Samsung Electronics Co., Ltd. ◦ Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea ◦ Date of Receipt : 2023-09-05 		
2. Use of Report : Certification		
3. Name of Product and Model : Tablet PC <ul style="list-style-type: none"> ◦ Model Name : SM-X308U ◦ Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Vietnam 		
4. FCC ID : A3LSMX308U		
5. Date of Test : 2023-10-04 ~ 2023-12-07		
6. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)		
7. Test Standards : IEEE 1528-2013, ANSI/IEEE C95.1, KDB Publication		
8. Test Results : Refer to the test result in the test report		
Affirmation	Tested by Name : Mungi Jeong (Signature)	Technical Manager Name : Jongwon Ma (Signature)
	2023-12-20	
Eurofins KCTL Co.,Ltd.		
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REPORT REVISION HISTORY

Date	Revision	Page No
2023-11-28	Originally issued	-
2023-12-12	Revised - Tx Frequency 2.4GHz - NR n30 Bandwidth - NR n41 Frequency (50 MHz Bandwidth) - NR n66 Frequency (5 MHz Bandwidth) - NR n77 Frequency (10 MHz Bandwidth) Target Power Changed - LTE B41/B71 (Grip Sensor Back-off Power) - NR n41/n71/n77 (Grip Sensor Back-off Power) Deleted - LTE UL CA (5B)	5 27,28 28,29, Overall 29 Overall Overall 326
2023-12-20	Added Call box Setup configuration	43~47

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:


Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

Statement not required by the standard or client used for type testing

1. Identification when information is provided by the customer: Information marked " # " is provided by the customer. - Disclaimer: This information is provided by the customer and can affect the validity of results.

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1. General information

Client : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,
Rep. of Korea
Manufacturer : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,
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Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-3327, G-198, C-3706, T-1849
CAB Identifier: KR0040, ISED Number: 8035A
KOLAS No.: KT231

1.1 Report Overview

This report details the results of testing carried out on the samples listed in section 2, 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.

This report may only be reproduced and distributed in full. If the product in this test report is used in any configuration other than that detailed in the test report, the manufacturer must ensure the new configuration complies with all relevant standards and certification requirements. Any mention of Eurofins KCTL Co.,Ltd. Wireless lab or testing done by Eurofins KCTL Co.,Ltd. Wireless lab made in connection with the distribution or use of the tested product must be approved in writing by Eurofins KCTL Co.,Ltd. Wireless lab.

2. Device information

2.1 Basic description

Product Name		Tablet PC		
Product Model Name		SM-X308U		
Product Manufacturer		Samsung Electronics Co., Ltd.		
Product Serial Number	Radiation	R32WA0019PJ, R32WA0019HM, R32W90020SH, R32W900213M		
	Conduction	R32W90020MN , R32W90020LR, R32W900208E		
Device Overview	Band & Mode	Operating Modes	Tx Frequency (MHz)	
	WCDMA Band II	Data	1 852.4 ~ 1 907.6	
	WCDMA Band IV	Data	1 712.4 ~ 1 752.6	
	WCDMA Band V	Data	826.4 ~ 846.6	
	LTE Band 2	Data	1 850.7 ~ 1 909.3	
	LTE Band 4	Data	1 710.7 ~ 1 754.3	
	LTE Band 5	Data	824.7 ~ 848.3	
	LTE Band 7	Data	2 502.5 ~ 2 567.5	
	LTE Band 12	Data	699.7 ~ 715.3	
	LTE Band 13	Data	779.5 ~ 784.5	
	LTE Band 14	Data	790.5 ~ 795.5	
	LTE Band 25	Data	1 850.7 ~ 1 914.3	
	LTE Band 26	Data	814.7 ~ 848.3	
	LTE Band 30	Data	2 307.5 ~ 2 312.5	
	LTE Band 40 (lower)	Data	2 307.5 ~ 2 312.5	
	LTE Band 40 (upper)	Data	2 352.5 ~ 2 357.5	
	LTE Band 41	Data	2 498.5 ~ 2 687.5	
	LTE Band 48	Data	3 552.5 ~ 3 697.5	
	LTE Band 66	Data	1 710.7 ~ 1 779.3	
	LTE Band 71	Data	665.5 ~ 695.5	
	NR Band n2	Data	1 852.5 ~ 1 907.5	
	NR Band n5	Data	826.5 ~ 846.5	
	NR Band n12	Data	701.5 ~ 713.5	
	NR Band n25	Data	1 852.5 ~ 1 912.5	
	NR Band n30	Data	2 307.5 ~ 2 312.5	
	NR Band n41	Data	2 501.01 ~ 2 685.00	
	NR Band n48	Data	3 555.00 ~ 3 694.98	
	NR Band n66	Data	1 712.5 ~ 1 777.5	
	NR Band n71	Data	665.5 ~ 695.5	
	NR Band n77 DoD	Data	3 455.01 ~ 3 544.98	
	NR Band n77	Data	3 705.00 ~ 3 975.00	
	NR Band n78	Data	3 455.01 ~ 3 544.98	
2.4 GHz WLAN	Data	2 412.0 ~ 2 462.0		
U-NII-1	Data	5 180.0 ~ 5 240.0		
U-NII-2A	Data	5 260.0 ~ 5 320.0		
U-NII-2C	Data	5 500.0 ~ 5 720.0		
U-NII-3	Data	5 745.0 ~ 5 825.0		
Bluetooth	Data	2 402.0 ~ 2 480.0		
NFC	Data	13.56		
Digitizer	Data	0.531 25 ~ 0.593 75		
TDWR Information	5.60 GHz~ 5.65 GHz band (TDWR) is supported by the device.			

2.2 Summary of SAR Test Results

Band	Ant.	Equipment Class	Highest Reported
			Body 1g SAR (W/kg)
WCDMA Band II		PCB	0.61
WCDMA Band IV		PCB	0.77
WCDMA Band V		PCB	0.57
LTE Band 2	Main1	PCB	N/A
	Sub1	PCB	0.52
LTE Band 4	Main1	PCB	N/A
	Sub1	PCB	N/A
LTE Band 5		PCB	0.56
LTE Band 7	Main2	PCB	0.73
	Sub1	PCB	0.40
LTE Band 12		PCB	0.58
LTE Band 13		PCB	0.43
LTE Band 14		PCB	0.40
LTE Band 25		PCB	0.53
LTE Band 26		PCB	0.47
LTE Band 30		PCB	0.82
LTE Band 40 (lower)		PCB	0.37
LTE Band 40 (upper)		PCB	0.38
LTE Band 41		PCB	0.79
LTE Band 48		CBE	0.48
LTE Band 66	Main1	PCB	0.66
	Sub1	PCB	0.39
LTE Band 71		PCB	0.86
NR Band n2		PCB	N/A
NR Band n5		PCB	0.64
NR Band n12		PCB	0.67
NR Band n25		PCB	0.57
NR Band n30		PCB	0.75
NR Band n41		PCB	0.71
NR Band n48		CBE	0.39
NR Band n48 SRS #1		PCB	1.04
NR Band n48 SRS #2		PCB	0.83
NR Band n48 SRS #3		PCB	0.53
NR Band n66		PCB	0.78
NR Band n71		PCB	0.90
NR Band n77 (lower)		PCB	0.78
NR Band n77(upper)		PCB	0.74
NR Band n77 SRS #1(lower)		PCB	1.10
NR Band n77 SRS #1(upper)		PCB	1.09
NR Band n77 SRS #2(lower)		PCB	0.93
NR Band n77 SRS #2(upper)		PCB	0.80
NR Band n77 SRS #3(lower)		PCB	0.54
NR Band n77 SRS #3(upper)		PCB	0.46
NR Band n78(lower)		PCB	N/A
NR Band n78 SRS #1(lower)		PCB	N/A
NR Band n78 SRS #2(lower)		PCB	N/A
NR Band n78 SRS #3(lower)		PCB	N/A
WLAN 2.4 GHz		DTS	0.75
U-NII-2A		NII	0.67
U-NII-2C		NII	1.24
U-NII-3		NII	1.09
Bluetooth		DSS	1.12
Simultaneous SAR per KDB 690783 D01v01r03			1.59

2.3 #Antenna information



Antenna Type		LDS Antenna													
Band		WCDMA			LTE										
		II	IV	V	2	4	5	7	12	13	14	25	26	30	40
Peak gain (dBi)	Main1	-0.6	0.5	-10.3	-0.6	0.5	-10.3		-4.7	-7.8	-7.8	-0.6	-10.3		
	Main2							-0.4						0.7	0.8
	Sub1				2.4	0.3		-4.5							
	Sub2														
	Sub3														
	Sub4														

Antenna Type		LDS Antenna														
Band		LTE				NR										
		41	48	66	71	n2	n5	n12	n25	n30	n41	n48	n66	n71	n77	n78
Peak gain (dBi)	Main1			0.5	-2.6	-0.6	-10.3	-4.7	-0.6				0.5	-2.6		
	Main2	-0.4	1.4							0.7	-0.4	1.4			1.6	1.6
	Sub1			0.3												
	Sub2		2.8									2.8			2.8	2.8
	Sub3		-0.9									-0.9			-0.9	-0.9
	Sub4		-0.9									-0.9			0.7	0.7

Antenna Type		LDS Antenna				
Band		WLAN 2.4 GHz / Bluetooth	UNII-1	UNII-2A	UNII-2C	UNII-3
Peak gain (dBi)	WIFI1	-4.0	-4.5	-4.7	-4.5	-4.5
	WIFI2	-4.5	-4.0	-4.4	-5.0	-4.4

2.4 Power Reduction for SAR

This device utilizes a power reduction mechanism for wireless modes and bands for SAR compliance under some conditions when the device is being used in close proximity to the user's hand. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Tablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

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2.5 #Maximum Tune-up power

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.



When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for U NII band 2A is $\leq 1.2\text{W/kg}$, SAR is not required for U-NII-1 band for that configuration; otherwise, each band is tested independently for SAR.



2.5.1 #Maximum Output Power

Band	Mode		Output Power(dBm)				
			Max Power (Normal)		Back-off Power (Grip Sensor)		
			Target	Max. Allowed	Target	Max. Allowed	
WCDMA II	RMC		24.50	25.50	14.00	15.00	
	HSDPA	Subtest-1	23.50	24.50	14.00	15.00	
		Subtest-2	23.50	24.50	14.00	15.00	
		Subtest-3	23.00	24.00	14.00	15.00	
		Subtest-4	23.00	24.00	14.00	15.00	
	HSUPA	Subtest-1	23.50	24.50	14.00	15.00	
		Subtest-2	21.50	22.50	14.00	15.00	
		Subtest-3	22.50	23.50	14.00	15.00	
		Subtest-4	21.50	22.50	14.00	15.00	
		Subtest-5	23.50	24.50	14.00	15.00	
	DC-HSDPA	Subtest-1	23.50	24.50	14.00	15.00	
		Subtest-2	23.50	24.50	14.00	15.00	
		Subtest-3	23.00	24.00	14.00	15.00	
		Subtest-4	23.00	24.00	14.00	15.00	
	WCDMA IV	RMC		24.50	25.50	14.00	15.00
		HSDPA	Subtest-1	23.50	24.50	14.00	15.00
Subtest-2			23.50	24.50	14.00	15.00	
Subtest-3			23.00	24.00	14.00	15.00	
Subtest-4			23.00	24.00	14.00	15.00	
HSUPA		Subtest-1	23.50	24.50	14.00	15.00	
		Subtest-2	21.50	22.50	14.00	15.00	
		Subtest-3	22.50	23.50	14.00	15.00	
		Subtest-4	21.50	22.50	14.00	15.00	
		Subtest-5	23.50	24.50	14.00	15.00	
DC-HSDPA		Subtest-1	23.50	24.50	14.00	15.00	
		Subtest-2	23.50	24.50	14.00	15.00	
		Subtest-3	23.00	24.00	14.00	15.00	
		Subtest-4	23.00	24.00	14.00	15.00	
WCDMA V		RMC		23.50	24.50	17.00	18.00
		HSDPA	Subtest-1	22.50	23.50	17.00	18.00
	Subtest-2		22.50	23.50	17.00	18.00	
	Subtest-3		22.00	23.00	17.00	18.00	
	Subtest-4		22.00	23.00	17.00	18.00	
	HSUPA	Subtest-1	22.50	23.50	17.00	18.00	
		Subtest-2	20.50	21.50	17.00	18.00	
		Subtest-3	21.50	22.50	17.00	18.00	
		Subtest-4	20.50	21.50	17.00	18.00	
		Subtest-5	22.50	23.50	17.00	18.00	
	DC-HSDPA	Subtest-1	22.50	23.50	17.00	18.00	
		Subtest-2	22.50	23.50	17.00	18.00	
		Subtest-3	22.00	23.00	17.00	18.00	
		Subtest-4	22.00	23.00	17.00	18.00	

Band		Output Power(dBm)			
		Max Power (Normal)		Back-off Power (Grip Sensor)	
		Target	Max. Allowed	Target	Max. Allowed
LTE	*2(Main1)	24.50	25.50	14.00	15.00
	2(Sub1)	24.00	25.00	14.00	15.00
	*4(Main1)	24.50	25.50	14.00	15.00
	*4(Sub1)	24.50	25.50	14.00	15.00
	5	24.50	25.50	17.00	18.00
	7(Main2)	22.50	23.50	10.00	11.00
	7(Sub1)	22.50	23.50	10.00	11.00
	12	24.50	25.50	17.00	18.00
	13	24.50	25.50	17.00	18.00
	14	24.50	25.50	17.00	18.00
	25	24.50	25.50	14.00	15.00
	26	24.00	25.00	17.00	18.00
	30	22.30	23.30	14.00	15.00
	40(lower)	22.50	23.50	14.00	15.00
	40(upper)	22.50	23.50	14.00	15.00
	41(Power Class 2)	26.50	27.50	13.00	14.00
	41(Power Class 3)	24.00	25.00	13.00	14.00
	48	22.50	23.50	12.50	13.50
	66(Main1)	24.50	25.50	14.00	15.00
	66(Sub1)	24.50	25.50	14.00	15.00
71	23.50	24.50	19.00	20.00	
5G NR	*n2	24.50	25.50	14.00	15.00
	n5	24.50	25.50	17.00	18.00
	n12	24.50	25.50	17.00	18.00
	n25	24.50	25.50	14.00	15.00
	n30	22.50	23.50	13.00	14.00
	n41(Power Class 2)	20.00	21.00	11.00	12.00
	n41(Power Class 3)	18.00	19.00	11.00	12.00
	n48	16.50	17.50	8.00	9.00
	n48 SRS #1	6.00	7.00	N/A	
	n48 SRS #2	6.00	7.00	N/A	
	n48 SRS #3	10.00	11.00	N/A	
	n66	24.50	25.50	14.00	15.00
	n71	23.50	24.50	19.00	20.00
	n77(Power Class 2_lower)	21.00	22.00	11.00	12.00
	n77(Power Class 2_upper)	21.00	22.00	11.00	12.00
	n77(Power Class 3_lower)	18.00	19.00	11.00	12.00
	n77(Power Class 3_upper)	18.00	19.00	11.00	12.00
	n77 SRS #1(lower)	6.00	7.00	N/A	
	n77 SRS #2(lower)	6.00	7.00	N/A	
	n77 SRS #3(lower)	10.00	11.00	N/A	
	n77 SRS #1(upper)	6.00	7.00	N/A	
	n77 SRS #2(upper)	6.00	7.00	N/A	
	n77 SRS #3(upper)	10.00	11.00	N/A	
	*n78(Power Class 3_lower)	18.00	19.00	8.00	9.00
	*n78(PC3) SRS #1(lower)	6.00	7.00	N/A	
	*n78(PC3) SRS #2(lower)	6.00	7.00	N/A	
	*n78(PC3) SRS #3(lower)	10.00	11.00	N/A	

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Notes:

1) Bands exemption.

***LTE Band 2(Main1) Measured Results (Normal & Back-off)**

SAR for LTE Band 2(Main1) (Frequency range: 1 850.7 ~ 1 909.3 MHz) is covered by LTE Band 25 (Frequency range: 1 850.7 ~ 1 914.3 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

***LTE Band 4(Main1&Sub1) Measured Results (Normal & Back-off)**

SAR for LTE Band 4 (Frequency range: 1 710.7 ~ 1 754.3 MHz) is covered by LTE Band 66 (Frequency range: 1 710.7 ~ 1 779.3 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

***NR Band n2 Measured Results (Normal & Back-off)**

SAR for NR Band n2 (Frequency range: 1 852.5 ~ 1 907.5 MHz) is covered by NR Band n25 (Frequency range: 1 852.5 ~ 1 912.5 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

***NR Band n78 Measured Results (Normal & Back-off)**

SAR for NR Band n78 (Frequency range: 3 455.01 ~ 3 544.98 MHz) is covered by NR Band n77(PC3) (Frequency range: 3 455.01 ~ 3 544.98 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

2) NR TDD Band and SRS mode were applied as Frame Power(Duty 100%)

Band	Ant.	Mode	Channel	Output Power(dBm)			
				Max Power (Normal)		Back-off Power (Grip Sensor)	
				Target	Max. Allowed	Target	Max. Allowed
WLAN 2.4 GHz	Ant.1/ MIMO (Ant.1,Ant.2)	802.11b	ALL	18.00	19.00	9.50	10.50
		802.11g/n20/ 802.11ax (SU 20 MHz)	ALL	17.00	18.00	9.00	10.00
U-NII-1, U-NII-2A	Ant.2	802.11a	ALL	16.00	17.00	5.50	6.50
		802.11n20/ac20/ 802.11ax(SU 20 MHz)	ALL	15.00	16.00	5.00	6.00
		802.11n40/ac40/ 802.11ax(SU 40 MHz)	ALL	13.00	14.00	5.00	6.00
		802.11ac80	Except Ch.	12.00	13.00	5.00	6.00
			42	11.00	12.00	5.00	6.00
		802.11ax(SU 80 MHz)	ALL	12.00	13.00	5.00	6.00
	MIMO (Ant.1)	802.11a	ALL	16.00	17.00	5.50	6.50
		802.11n20/ac20/ 802.11ax(SU 20 MHz)	ALL	15.00	16.00	5.00	6.00
		802.11n40/ac40/ 802.11ax(SU 40 MHz)	ALL	13.00	14.00	5.00	6.00
		802.11ac80	Except Ch.	12.00	13.00	5.00	6.00
			42	10.00	11.00	5.00	6.00
		802.11ax(SU 80 MHz)	ALL	12.00	13.00	5.00	6.00
	MIMO (Ant.2)	802.11a	ALL	16.00	17.00	5.50	6.50
		802.11n20/ac20/ 802.11ax(SU 20 MHz)	ALL	15.00	16.00	5.00	6.00
		802.11n40/ac40/ 802.11ax(SU 40 MHz)	ALL	13.00	14.00	5.00	6.00
		802.11ac80	Except Ch.	12.00	13.00	5.00	6.00
			42	11.00	12.00	5.00	6.00
		802.11ax(SU 80 MHz)	ALL	12.00	13.00	5.00	6.00

Band	Ant.	Mode	Channel	Output Power(dBm)						
				Max Power (Normal)		Back-off Power (Grip Sensor)				
				Target	Max. Allowed	Target	Max. Allowed			
U-NII-2C	Ant.2	802.11a	Except Ch.	16.00	17.00	5.50	6.50			
			140	11.00	12.00					
			144	14.50	15.50					
		802.11n20/ac20/ 802.11ax(SU 20 MHz)	Except Ch.	15.00	16.00	5.00	6.00			
			140	10.00	11.00					
			144	13.50	14.50					
			802.11n40/ac40	ALL	13.00			14.00	5.00	6.00
			802.11ax(SU 40 MHz)	ALL	12.00			13.00	5.00	6.00
			802.11ac80	ALL	12.00			13.00	5.00	6.00
		802.11ax(SU 80 MHz)	ALL	11.50	12.50	5.00	6.00			
			MIMO (Ant.1)	802.11a	Except Ch.	16.00	17.00	5.50	6.50	
					140	11.00	12.00			
	144				14.50	15.50				
	802.11n20/ac20/ 802.11ax(SU 20 MHz)			Except Ch.	15.00	16.00	5.00	6.00		
				140	10.00	11.00				
		144		13.50	14.50					
	802.11n40/ac40	ALL		13.00	14.00	5.00	6.00			
	802.11ax(SU 40 MHz)	Except Ch.		13.00	14.00	5.00	6.00			
		118		11.00	12.00	5.00	6.00			
		142		12.00	13.00	5.00	6.00			
	802.11ac80	Except Ch.		12.00	13.00	5.00	6.00			
		106		11.00	12.00	5.00	6.00			
	802.11ax(SU 80 MHz)	Except Ch.	11.50	12.50	5.00	6.00				
		138	12.00	13.00	5.00	6.00				
	MIMO (Ant.2)	802.11a	Except Ch.	16.00	17.00	5.50	6.50			
			140	11.00	12.00					
			144	14.50	15.50					
		802.11n20/ac20	Except Ch.	15.00	16.00	5.00	6.00			
			140	10.50	11.50					
			144	13.50	14.50					
802.11ax(SU 20 MHz)		Except Ch.	15.00	16.00	5.00	6.00				
		140	10.00	11.00	5.00	6.00				
		144	13.50	14.50	5.00	6.00				
802.11n40		Except Ch.	12.00	13.00	5.00	6.00				
		142	13.00	14.00	5.00	6.00				
802.11ac40		ALL	12.00	13.00	5.00	6.00				
802.11ax(SU 40 MHz)		Except Ch.	11.00	12.00	5.00	6.00				
		118,142	12.00	13.00	5.00	6.00				
802.11ac80		ALL	12.00	13.00	5.00	6.00				
802.11ax(SU 80 MHz)		Except Ch.	11.50	12.50	5.00	6.00				
		138	11.00	12.00	5.00	6.00				

Band	Ant.	Mode	Channel	Output Power(dBm)			
				Max Power (Normal)		Back-off Power (Grip Sensor)	
				Target	Max. Allowed	Target	Max. Allowed
U-NII-3	Ant.2	802.11a	ALL	14.50	15.50	5.50	6.50
		802.11n20/ 802.11ax (SU 20 MHz)	ALL	13.50	14.50	5.00	6.00
		802.11n40/ 802.11ac(VHT40)	Except Ch.	13.00	14.00	5.00	6.00
			159	12.00	13.00	5.00	6.00
		802.11ax(SU 40 MHz)	ALL	13.00	14.00	5.00	6.00
		802.11ac80	ALL	11.00	12.00	5.00	6.00
	MIMO (Ant.1)	802.11a	ALL	14.50	15.50	5.50	6.50
		802.11n20/ 802.11ax (SU 20 MHz)	ALL	13.50	14.50	5.00	6.00
		802.11n40/ac40/ 802.11ax(SU 40 MHz)	ALL	13.00	14.00	5.00	6.00
		802.11ac80/ 802.11ax(SU 80 MHz)	ALL	12.00	13.00	5.00	6.00
	MIMO (Ant.2)	802.11a	ALL	14.50	15.50	5.50	6.50
		802.11n20/ 802.11ax (SU 20 MHz)	ALL	13.50	14.50	5.00	6.00
		802.11n40/ 802.11ac(VHT40)	Except Ch.	12.00	13.00	5.00	6.00
			159	11.00	12.00	4.00	5.00
		802.11ax(SU 40 MHz)	Except Ch.	12.00	13.00	5.00	6.00
			159	12.00	13.00	4.00	5.00
		802.11ac80	Except Ch.	10.00	11.00	5.00	6.00
			159	10.00	11.00	4.00	5.00
		802.11ax(SU 80 MHz)	Except Ch.	11.00	12.00	5.00	6.00
			159	11.00	12.00	4.00	5.00
	Bluetooth	BDR(GFSK)	Except Ch.	16.00	17.00	12.00	13.00
39			16.00	17.00	11.00	12.00	
EDR ($\pi/4$ DQPSK)		Except Ch.	10.50	11.50	N/A		
		78	12.00	13.00	N/A		
EDR(8DPSK)		Except Ch.	10.50	11.50	N/A		
		78	12.00	13.00	N/A		
LE(GFSK) 1/2 Mbps 125/500 Kbps		Except Ch.	14.50	15.50	11.00	12.00	
		39	12.50	13.50	8.00	9.00	

Note:

- 1) WLAN 2.4 GHz only support Ant.1 in SISO and MIMO mode.
- 2) WLAN 5 GHz only support Ant.2 in SISO and MIMO mode.

2.6 SAR Test Configurations

2.6.1 #DUT Antenna Locations

The overall dimensions of this device are > 20 cm. A diagram showing the location of the device antennas. Please refer to Appendix E.

2.6.2 SAR Test Exclusion Considerations

2.6.2.1 Maximum Tune-up Power

Ant.	Band	Frequency (MHz)	Output power		Separation distances [mm]					SAR Exemption				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bottom
Main1	WCDMA 2	1907.6	25.50	355						98.06 Measure	504mW EXEMPT	40.86 Measure	98.06 Measure	1543mW EXEMPT
	WCDMA 4	1752.6	25.50	355						93.99 Measure	508mW EXEMPT	39.16 Measure	93.99 Measure	1547mW EXEMPT
	WCDMA 5	846.6	24.50	282						51.89 Measure	386mW EXEMPT	21.62 Measure	51.89 Measure	972mW EXEMPT
	LTE 2	1909.3	25.50	355						98.11 Measure	504mW EXEMPT	40.88 Measure	98.11 Measure	1543mW EXEMPT
	LTE 4	1754.3	25.50	355						94.04 Measure	508mW EXEMPT	39.18 Measure	94.04 Measure	1547mW EXEMPT
	LTE 5	848.3	25.50	355						65.39 Measure	386mW EXEMPT	27.25 Measure	65.39 Measure	974mW EXEMPT
	LTE 12	715.3	25.50	355						60.05 Measure	366mW EXEMPT	25.02 Measure	60.05 Measure	861mW EXEMPT
	LTE 13	784.5	25.50	355						62.89 Measure	376mW EXEMPT	26.20 Measure	62.89 Measure	919mW EXEMPT
	LTE 14	795.5	25.50	355						63.33 Measure	378mW EXEMPT	26.39 Measure	63.33 Measure	929mW EXEMPT
	LTE 25	1914.3	25.50	355	5	90	12	5	193	98.23 Measure	503mW EXEMPT	40.93 Measure	98.23 Measure	1542mW EXEMPT
	LTE 26	848.3	25.00	316						58.21 Measure	386mW EXEMPT	24.25 Measure	58.21 Measure	974mW EXEMPT
	LTE 66	1779.3	25.50	355						94.71 Measure	507mW EXEMPT	39.46 Measure	94.71 Measure	1546mW EXEMPT
	LTE 71	695.5	24.50	282						47.04 Measure	363mW EXEMPT	19.60 Measure	47.04 Measure	845mW EXEMPT
	n2	1907.5	25.50	355						98.06 Measure	504mW EXEMPT	40.86 Measure	98.06 Measure	1543mW EXEMPT
	n5	846.5	25.50	355						65.32 Measure	386mW EXEMPT	27.22 Measure	65.32 Measure	972mW EXEMPT
	n12	713.5	25.50	355						59.97 Measure	365mW EXEMPT	24.99 Measure	59.97 Measure	860mW EXEMPT
	n25	1912.5	25.50	355						98.19 Measure	503mW EXEMPT	40.91 Measure	98.19 Measure	1542mW EXEMPT
	n66	1777.5	25.50	355						94.66 Measure	508mW EXEMPT	39.44 Measure	94.66 Measure	1547mW EXEMPT
n71	695.5	24.50	282						47.04 Measure	363mW EXEMPT	19.60 Measure	47.04 Measure	845mW EXEMPT	

Ant.	Band	Frequency (MHz)	Output power		Separation distances [mm]					SAR Exemption				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bottom
Main2	LTE 7	2567.5	23.50	224	5	74	38	5	194	71.78	335mW	9.45	71.78	1529mW
										Measure	EXEMPT	Measure	Measure	EXEMPT
	LTE 30	2312.5	23.30	214						65.09	340mW	8.56	65.09	1534mW
										Measure	EXEMPT	Measure	Measure	EXEMPT
	LTE 40	2357.5	23.50	224						68.79	339mW	9.05	68.79	1533mW
										Measure	EXEMPT	Measure	Measure	EXEMPT
	LTE 41 (PC 3)	2687.5	25.00	316						103.61	333mW	13.63	103.61	1526mW
										Measure	EXEMPT	Measure	Measure	EXEMPT
	LTE 48	3697.5	23.50	224						86.15	319mW	11.33	86.15	1513mW
				Measure	EXEMPT	Measure	Measure	EXEMPT						
	n30	2312.5	23.50	224	68.13	340mW	8.96	68.13	1534mW					
					Measure	EXEMPT	Measure	Measure	EXEMPT					
	n41 (PC2)	2685	21.00	126	41.29	333mW	5.43	41.29	1527mW					
					Measure	EXEMPT	Measure	Measure	EXEMPT					
	n48	3694.98	17.50	56	21.53	319mW	2.83	21.53	1513mW					
					Measure	EXEMPT	EXEMPT	Measure	EXEMPT					
	n77	3544.98	22.00	158	59.50	321mW	7.83	59.50	1515mW					
					Measure	EXEMPT	Measure	Measure	EXEMPT					
Sub1	LTE 2 (Sub)	1909.3	25.00	316	5	92	12	193	5	87.33	532mW	36.39	1537mW	87.33
										Measure	EXEMPT	Measure	EXEMPT	Measure
	LTE 4 (Sub)	1754.3	25.50	355						94.04	536mW	39.18	1541mW	94.04
										Measure	EXEMPT	Measure	EXEMPT	Measure
	LTE 7 (Sub)	2567.5	23.50	224	71.78	517mW	29.91	1522mW	71.78					
					Measure	EXEMPT	Measure	EXEMPT	Measure					
	LTE 66 (Sub)	1779.3	25.50	355	94.71	535mW	39.46	1540mW	94.71					
					Measure	EXEMPT	Measure	EXEMPT	Measure					
Sub2	n48 (SRS 3)	3694.98	11.00	13	5	111	5	175	52	5.00	691mW	5.00	1332mW	102mW
										Measure	EXEMPT	Measure	EXEMPT	EXEMPT
	n77 (SRS 3)	3544.98	11.00	13	4.90	693mW	4.90	1334mW	104mW					
					Measure	EXEMPT	Measure	EXEMPT	EXEMPT					
Sub3	n48 (SRS 2)	3694.98	7.00	5	5	5	111	52	139	1.92	1.92	688mW	102mW	963mW
										EXEMPT	EXEMPT	EXEMPT	EXEMPT	EXEMPT
	n77 (SRS 2)	3544.98	7.00	5	1.88	1.88	690mW	104mW	965mW					
					EXEMPT	EXEMPT	EXEMPT	EXEMPT	EXEMPT					
Sub4	n48 (SRS 1)	3694.98	7.00	5	5	74	34	193	5	1.92	313mW	0.28	1506mW	1.92
										EXEMPT	EXEMPT	EXEMPT	EXEMPT	EXEMPT
	n77 (SRS 1)	3544.98	7.00	5	1.88	315mW	0.28	1508mW	1.88					
					EXEMPT	EXEMPT	EXEMPT	EXEMPT	EXEMPT					
WIFI1	2.4 GHz	2462	19.00	79	5	5	113	16	196	24.79	24.79	722mW	7.75	1560mW
										Measure	Measure	EXEMPT	Measure	EXEMPT
	U-NII-2A	5320	17.00	50						23.07	23.07	692mW	7.21	1530mW
										Measure	Measure	EXEMPT	Measure	EXEMPT
	U-NII-2C	5720	17.00	50						23.92	23.92	689mW	7.47	1527mW
				Measure	Measure	EXEMPT	Measure	EXEMPT						
	U-NII-3	5825	15.50	35	16.89	16.89	689mW	5.28	1527mW					
					Measure	Measure	EXEMPT	Measure	EXEMPT					
	Bluetooth	2480	17.00	50	15.75	15.75	722mW	4.92	1560mW					
					Measure	Measure	EXEMPT	Measure	EXEMPT					
WIFI2	2.4 GHz	2462	19.00	79	5	24	89	5	198	24.79	5.16	482mW	24.79	1571mW
										Measure	Measure	EXEMPT	Measure	EXEMPT
	U-NII-2A	5320	17.00	50						23.07	4.81	452mW	23.07	1540mW
										Measure	Measure	EXEMPT	Measure	EXEMPT
	U-NII-2C	5720	17.00	50	23.92	4.98	450mW	23.92	1538mW					
					Measure	Measure	EXEMPT	Measure	EXEMPT					
	U-NII-3	5825	15.50	35	16.89	3.52	449mW	16.89	1537mW					
					Measure	Measure	EXEMPT	Measure	EXEMPT					

Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
Note 2: Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
Note 3: If the antenna separation distance is > 50mm then the value listed is the output power threshold, above which SAR measurement is required. For separation <= 50mm the value is the KDB 447498 calculated value and must be less than 3.0 for SAR exemption.
Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.
Note 5: NR TDD Bands were applied as Frame Power(duty 100%).

SAR Test Exclusion (Maximum Output Power)

Ant.	Band	SAR Exemption				
		Rear	Left	Right	Top	Bottom
Main1	WCDMA 2	Yes	No	Yes	Yes	No
	WCDMA 4	Yes	No	Yes	Yes	No
	WCDMA 5	Yes	No	Yes	Yes	No
	LTE 5	Yes	No	Yes	Yes	No
	LTE 12	Yes	No	Yes	Yes	No
	LTE 13	Yes	No	Yes	Yes	No
	LTE 14	Yes	No	Yes	Yes	No
	LTE 25	Yes	No	Yes	Yes	No
	LTE 26	Yes	No	Yes	Yes	No
	LTE 66	Yes	No	Yes	Yes	No
	LTE 71	Yes	No	Yes	Yes	No
	n5	Yes	No	Yes	Yes	No
	n12	Yes	No	Yes	Yes	No
	n25	Yes	No	Yes	Yes	No
	n66	Yes	No	Yes	Yes	No
n71	Yes	No	Yes	Yes	No	
Main2	LTE 7	Yes	No	Yes	Yes	No
	LTE 30	Yes	No	Yes	Yes	No
	LTE 40	Yes	No	Yes	Yes	No
	LTE 41(PC 3)	Yes	No	Yes	Yes	No
	LTE 48	Yes	No	Yes	Yes	No
	n30	Yes	No	Yes	Yes	No
	n41(PC2)	Yes	No	Yes	Yes	No
	n48	Yes	No	No	Yes	No
	n77	Yes	No	Yes	Yes	No
Sub1	LTE 2(Sub)	Yes	No	Yes	No	Yes
	LTE 4(Sub)	Yes	No	Yes	No	Yes
	LTE 7(Sub)	Yes	No	Yes	No	Yes
	LTE 66(Sub)	Yes	No	Yes	No	Yes
Sub2	n48(SRS 3)	Yes	No	Yes	No	No
	n77(SRS 3)	Yes	No	Yes	No	No
Sub3	n48(SRS 2)	Note)Yes	No	No	No	No
	n77(SRS 2)	Note)Yes	No	No	No	No
Sub4	n48(SRS 1)	Note)Yes	No	No	No	No
	n77(SRS 1)	Note)Yes	No	No	No	No
WIFI1	2.4 GHz	Yes	Yes	No	Yes	No
	U-NII-2A	Yes	Yes	No	Yes	No
	U-NII-2C	Yes	Yes	No	Yes	No
	U-NII-3	Yes	Yes	No	Yes	No
	Bluetooth	Yes	Yes	No	Yes	No
WIFI2	2.4 GHz	Yes	Yes	No	Yes	No
	U-NII-2A	Yes	Yes	No	Yes	No
	U-NII-2C	Yes	Yes	No	Yes	No
	U-NII-3	Yes	Yes	No	Yes	No

Note) Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

2.6.2.2 Reduced Tune-up Power

Ant.	Band	Frequency (MHz)	Output power		Separation distances [mm]					SAR Exemption				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bottom
Main1	WCDMA 2	1907.6	15.00	32	5	90	12	5	193	8.84 Measure	Non-Power-Back-off	3.68 Measure	8.84 Measure	Non-Power-Back-off
	WCDMA 4	1752.6	15.00	32						8.47 Measure		3.53 Measure	8.47 Measure	
	WCDMA 5	846.6	18.00	63						11.59 Measure		4.83 Measure	11.59 Measure	
	LTE 2	1909.3	15.00	32						8.84 Measure		3.68 Measure	8.84 Measure	
	LTE 4	1754.3	15.00	32						8.48 Measure		3.53 Measure	8.48 Measure	
	LTE 5	848.3	18.00	63						11.61 Measure		4.84 Measure	11.61 Measure	
	LTE 12	715.3	18.00	63						10.66 Measure		4.44 Measure	10.66 Measure	
	LTE 13	784.5	18.00	63						11.16 Measure		4.65 Measure	11.16 Measure	
	LTE 14	795.5	18.00	63						11.24 Measure		4.68 Measure	11.24 Measure	
	LTE 25	1914.3	15.00	32						8.85 Measure		3.69 Measure	8.85 Measure	
	LTE 26	848.3	18.00	63						11.61 Measure		4.84 Measure	11.61 Measure	
	LTE 66	1779.3	15.00	32						8.54 Measure		3.56 Measure	8.54 Measure	
	LTE 71	695.5	18.00	63						10.51 Measure		4.38 Measure	10.51 Measure	
	n2	1907.5	15.00	32						8.84 Measure		3.68 Measure	8.84 Measure	
	n5	846.5	18.00	63						11.59 Measure		4.83 Measure	11.59 Measure	
	n12	713.5	18.00	63						10.64 Measure		4.43 Measure	10.64 Measure	
n25	1912.5	15.00	32	8.85 Measure	3.69 Measure	8.85 Measure								
n66	1777.5	15.00	32	8.53 Measure	3.56 Measure	8.53 Measure								
n71	695.5	18.00	63	10.51 Measure	4.38 Measure	10.51 Measure								
Main2	LTE 7	2567.5	11.00	13	5	74	38	5	194	4.17 Measure	Non-Power-Back-off	Non-Power-Back-off	4.17 Measure	Non-Power-Back-off
	LTE 30	2312.5	15.00	32						9.73 Measure			9.73 Measure	
	LTE 40	2357.5	15.00	32						9.83 Measure			9.83 Measure	
	LTE 41 (PC 3)	2687.5	12.00	16						5.25 Measure			5.25 Measure	
	LTE 48	3697.5	13.50	22						8.46 Measure			8.46 Measure	
	n30	2312.5	14.00	25						7.60 Measure			7.60 Measure	
	n41 (PC 2)	2685	9.00	8						EXEMPT			EXEMPT	
	n48	3694.98	9.00	8						3.08 Measure			3.08 Measure	
	n77	3544.98	9.00	8						3.01 Measure			3.01 Measure	

Ant.	Band	Frequency (MHz)	Output power		Separation distances [mm]					SAR Exemption				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bottom
Sub1	LTE 2 (Sub)	1909.3	15.00	32	5	92	12	193	5	8.84 Measure	Non-Power-Back-off	3.68 Measure	Non-Power-Back-off	8.84 Measure
	LTE 4 (Sub)	1754.3	15.00	32						8.48 Measure		3.53 Measure		8.48 Measure
	LTE 7 (Sub)	2567.5	11.00	13						4.17 Measure		1.74 EXEMPT		4.17 Measure
	LTE 66 (Sub)	1779.3	15.00	32						8.54 Measure		3.56 Measure		8.54 Measure
WIFI1	2.4 GHz	2462	10.50	11	5	5	113	16	196	3.45 Measure	3.45 Measure	Non-Power-Back-off	Non-Power-Back-off	Non-Power-Back-off
	U-NII-2A	5320	6.50	4						1.85 EXEMPT	1.85 EXEMPT			
	U-NII-2C	5720	6.50	4						1.91 EXEMPT	1.91 EXEMPT			
	U-NII-3	5825	6.50	4						1.93 EXEMPT	1.93 EXEMPT			
	Bluetooth	2480	13.00	20						6.30 Measure	6.30 Measure			
WIFI2	2.4 GHz	2462	10.50	11	5	24	89	5	198	3.45 Measure	Non-Power-Back-off	Non-Power-Back-off	Non-Power-Back-off	3.45 Measure
	U-NII-2A	5320	6.50	4						1.85 EXEMPT				1.85 EXEMPT
	U-NII-2C	5720	6.50	4						1.91 EXEMPT				1.91 EXEMPT
	U-NII-3	5825	6.50	4						1.93 EXEMPT				1.93 EXEMPT

Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.

Note 2: Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.

Note 3: If the antenna separation distance is > 50mm then the value listed is the output power threshold, above which SAR measurement is required. For separation <= 50mm the value is the KDB 447498 calculated value and must be less than 3.0 for SAR exemption.

Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.

Note 5: Non-power back-off means Grip Sensor is not applied.

Note 6: NR TDD Bands were applied as Frame Power(duty 100%).

SAR Test Exclusion (Reduced Output Power)

Ant.	Band	SAR Exemption				
		Rear	Left	Right	Top	Bottom
Main1	WCDMA 2	Yes	Non-Power-Back-off	Yes	Yes	Non-Power-Back-off
	WCDMA 4	Yes		Yes	Yes	
	WCDMA 5	Yes		Yes	Yes	
	LTE 2	Yes		Yes	Yes	
	LTE 4	Yes		Yes	Yes	
	LTE 5	Yes		Yes	Yes	
	LTE 12	Yes		Yes	Yes	
	LTE 13	Yes		Yes	Yes	
	LTE 14	Yes		Yes	Yes	
	LTE 25	Yes		Yes	Yes	
	LTE 26	Yes		Yes	Yes	
	LTE 66	Yes		Yes	Yes	
	LTE 71	Yes		Yes	Yes	
	n2	Yes		Yes	Yes	
	n5	Yes		Yes	Yes	
n12	Yes	Yes	Yes			
n25	Yes	Yes	Yes			
n66	Yes	Yes	Yes			
n71	Yes	Yes	Yes			
Main2	LTE 7	Yes	Non-Power-Back-off	Non-Power-Back-off	Yes	Non-Power-Back-off
	LTE 30	Yes			Yes	
	LTE 40	Yes			Yes	
	LTE 41(PC 3)	Yes			Yes	
	LTE 48	Yes			Yes	
	n30	Yes			Yes	
	n41(PC 2)	Note)Yes			Note)Yes	
	n48	Yes			Yes	
n77	Yes	Yes				
Sub1	LTE 2(Sub)	Yes	Non-Power-Back-off	Yes	Non-Power-Back-off	Yes
	LTE 4(Sub)	Yes		Yes		Yes
	LTE 7(Sub)	Yes		Note)Yes		Yes
	LTE 66(Sub)	Yes		Yes		Yes
WIF1	2.4 GHz	Yes	Yes	Non-Power-Back-off	Non-Power-Back-off	Non-Power-Back-off
	U-NII-2A	Note)Yes	Note)Yes			
	U-NII-2C	Note)Yes	Note)Yes			
	U-NII-3	Note)Yes	Note)Yes			
	Bluetooth	Yes	Yes			
WIF2	2.4 GHz	Yes	Non-Power-Back-off	Non-Power-Back-off	Yes	Non-Power-Back-off
	U-NII-2A	Note)Yes			Note)Yes	
	U-NII-2C	Note)Yes			Note)Yes	
	U-NII-3	Note)Yes			Note)Yes	
		Note)Yes			Note)Yes	

Note) Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

2.6.2.3 Digitizer and NFC RF Exposure evaluation

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1 c), For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

Appendix C
SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	<=0	>0	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	
100	237	174	181	187	194	201	207	214	221	227	234	241	247	254	261	267	274	281	287	294	301	307
50	118	87	89	92	95	98	101	104	107	110	113	116	119	122	125	128	131	134	137	140	143	146
10	47	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
1	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0.1	1	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
0.01	0.1	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

Using Field Strength Approach formula (linear terms), this value corresponds to an output power of below table. For more detail the calculation method is as below.

$$P = (E \times d)^2 / (30 \times G)$$

Where:

- P = Transmitter output power in watts
- G = Numeric gain of the transmitting antenna (unitless)
- E = the measured maximum field strength in V/m
- d = Measurement distance in meters (m)

Therefore,

- E-Field strength in V/m, E-Field (V/m) = $[10^{((\text{dB}\mu\text{V} - 120) / 20)}]$
- Antenna gain = 0 dBi (numeric gain = 1.0)
- Measurement distance = 30 m

SAR Test Exclusion Conclusion according to KDB447498 D01, appendix C,


RF Exposure Transmitter	Min. distance (mm)	Freq.	E-Field strength (dBμV/m)	Transmitter output power (mW)	Thresholds level (mW)
Digitizer(S-Pen)	5	595 kHz	9.25	0.000 000 26	764.4
NFC	5	13.56 MHz	16.68	0.000 001 40	442.7

Because output power value (mW) is less than threshold level (mW), SAR measurement is not required

Also, This device is tablet device;

Digitizer: SAR test is not required for front side (display) according to KDB 616217 D04 SAR for laptop and tablets v01r02. So TER analysis is not require with other transmitters.

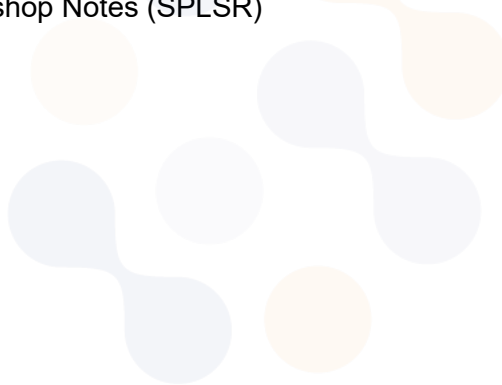
NFC: SAR test is not required for Extremity(10g-SAR) according to KDB 616217 D04 SAR for laptop and tablets v01r02. The NFC transmission will only operate in hand held(extremity 10g-SAR), so simultaneous transmission is not considered.

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2.7 SAR Test Methods and Procedures

The tests documented in this report were performed in accordance with IEEE 1528-2013 and the following published KDB procedures:

- IEEE 1528-2013
- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 616217 D04 SAR for laptop and tablets v01r02 (Proximity Sensor)
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- October 2014 TCB Workshop Notes (Other LTE Considerations)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- November 2017 TCB Workshop Notes (LTE UL/DL Carrier Aggregation SAR)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (Tissue Simulating Liquids)
- November 2019 TCB Workshop Notes (SPLSR Hotspot Combination)
- April 2022 TCB Workshop Notes (5G NR FR1 Measurement Procedures)
- April 2022 TCB Workshop Notes (SPLSR)




3. #LTE Information

LTE Information	
Form Factor	Tablet PC
Frequency Range of each LTE transmission band	LTE Band 2 (1 850.7 MHz ~ 1 909.3 MHz) LTE Band 4 (1 710.7 MHz ~ 1 754.3 MHz) LTE Band 5 (824.7 MHz ~ 848.3 MHz) LTE Band 7 (2 502.5 MHz ~ 2 567.5 MHz) LTE Band 12 (699.7 MHz ~ 715.3 MHz) LTE Band 13 (779.5 MHz ~ 784.5 MHz) LTE Band 14 (790.5 MHz ~ 795.5 MHz) LTE Band 25 (1 850.7 MHz ~ 1 914.3 MHz) LTE Band 26 (814.7 MHz ~ 848.3 MHz) LTE Band 30 (2 307.5 MHz ~ 2 312.5 MHz) LTE Band 40(lower) (2 307.5 MHz~ 2 312.5 MHz) LTE Band 40(upper) (2 352.5 MHz~ 2 357.5 MHz) LTE Band 41 (2 498.5 MHz ~ 2 687.5 MHz) LTE Band 48 (3 552.5 MHz ~ 3 697.5 MHz) LTE Band 66 (1 710.7 MHz ~ 1 779.3 MHz) LTE Band 71 (665.5 MHz ~ 695.5 MHz)
Channel Bandwidths	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 13: 5 MHz, 10 MHz LTE Band 14: 5 MHz, 10 MHz LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz LTE Band 30: 5 MHz, 10 MHz LTE Band 40(lower): 5 MHz, 10 MHz LTE Band 40(upper): 5 MHz, 10 MHz LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz

LTE Information				
Channel Numbers and Frequencies(MHz)		Low	Mid	High
Band	Bandwidths			
LTE Band 2 (Sub1)	1.4 MHz	1 850.7 (18 607)	1 880.0 (18 900)	1 909.3 (19 193)
	3 MHz	1 851.5 (18 615)	1 880.0 (18 900)	1 908.5 (19 185)
	5 MHz	1 852.5 (18 625)	1 880.0 (18 900)	1 907.5 (19 175)
	10 MHz	1 855.0 (18 650)	1 880.0 (18 900)	1 905.0 (19 150)
	15 MHz	1 857.5 (18 675)	1 880.0 (18 900)	1 902.5 (19 125)
	20 MHz	1 860.0 (18 700)	1 880.0 (18 900)	1 900.0 (19 100)
LTE Band 4	1.4 MHz	1 710.7 (19 957)	1 732.5 (20 175)	1 754.3 (20 393)
	3 MHz	1 711.5 (19 965)	1 732.5 (20 175)	1 753.5 (20 385)
	5 MHz	1 712.5 (19 975)	1 732.5 (20 175)	1 752.5 (20 375)
	10 MHz	1 715.0 (20 000)	1 732.5 (20 175)	1 750.0 (20 350)
	15 MHz	1 717.5 (20 025)	1 732.5 (20 175)	1 747.5 (20 325)
	20 MHz	1 720.0 (20 050)	1 732.5 (20 175)	1 745.0 (20 300)
LTE Band 5	1.4 MHz	824.7 (20 407)	836.5 (20 525)	848.3 (20 643)
	3 MHz	825.5 (20 415)	836.5 (20 525)	847.5 (20 635)
	5 MHz	826.5 (20 425)	836.5 (20 525)	846.5 (20 625)
	10 MHz	829.0 (20 450)	836.5 (20 525)	844.0 (20 600)
LTE Band 7 (Main2)	5 MHz	2502.5 (20 775)	2 535.0 (21 100)	2567.5 (21 425)
	10 MHz	2505.0 (20 800)	2 535.0 (21 100)	2565.0 (21 400)
	15 MHz	2507.5 (20 825)	2 535.0 (21 100)	2562.5 (21 375)
	20 MHz	2 510.0 (20 850)	2 535.0 (21 100)	2 560.0 (21 350)
LTE Band 7 (Sub1)	5 MHz	2502.5 (20 775)	2 535.0 (21 100)	2567.5 (21 425)
	10 MHz	2505.0 (20 800)	2 535.0 (21 100)	2565.0 (21 400)
	15 MHz	2507.5 (20 825)	2 535.0 (21 100)	2562.5 (21 375)
	20 MHz	2 510.0 (20 850)	2 535.0 (21 100)	2 560.0 (21 350)
LTE Band 12	1.4 MHz	699.7 (23 017)	707.5 (23 095)	715.3 (23 173)
	3 MHz	700.5 (23 025)	707.5 (23 095)	714.5 (23 165)
	5 MHz	701.5 (23 035)	707.5 (23 095)	713.5 (23 155)
	10 MHz	704.0 (23 060)	707.5 (23 095)	711.0 (23 130)
LTE Band 13	5 MHz	779.5 (23 205)	782.0 (23 230)	784.5 (23 255)
	10 MHz	-	782.0 (23 230)	-
LTE Band 14	5 MHz	790.5 (23 305)	793.0 (23 330)	795.5 (23 355)
	10 MHz	-	793.0 (23 330)	-
LTE Band 25	1.4 MHz	1 850.7 (26 047)	1 882.5 (26 365)	1 914.3 (26 683)
	3 MHz	1 851.5 (26 055)	1 882.5 (26 365)	1 913.5 (26 675)
	5 MHz	1 852.5 (26 065)	1 882.5 (26 365)	1 912.5 (26 665)
	10 MHz	1 855.0 (26 090)	1 882.5 (26 365)	1 910.0 (26 640)
	15 MHz	1 857.5 (26 115)	1 882.5 (26 365)	1 907.5 (26 615)
	20 MHz	1 860.0 (26 140)	1 882.5 (26 365)	1 905.0 (26 590)

LTE Information						
Channel Numbers and Frequencies(MHz)		Low		Mid		High
Band	Bandwidths					
LTE Band 26	1.4 MHz	814.7 (26 697)		831.5 (26 865)		848.3 (27 033)
	3 MHz	815.5 (26 705)		831.5 (26 865)		847.5 (27 025)
	5 MHz	816.5 (26 715)		831.5 (26 865)		846.5 (27 015)
	10 MHz	819.0 (26 740)		831.5 (26 865)		844.0 (26 990)
	15 MHz	821.5 (26 765)		831.5 (26 865)		841.5 (26 965)
LTE Band 30	5 MHz	2 307.5 (27 685)		2 310.0 (27 710)		2 312.5 (27 735)
	10 MHz	-		2 310.0 (27 710)		-
LTE Band 40 (lower)	5 MHz	2 307.5 (38 725)		2 310.0 (38 750)		2 312.5 (38 775)
	10 MHz	-		2 310.0 (38 750)		-
LTE Band 40 (upper)	5 MHz	2 352.5 (39 175)		2 355.0 (39 200)		2 357.5 (39 225)
	10 MHz	-		2 355.0 (39 200)		-
LTE Band 41 (Power Class 2)	5 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	10 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	15 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	20 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
LTE Band 41 (Power Class 3)	5 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	10 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	15 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
	20 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)
LTE Band 48	5 MHz	3 552.5 (55 265)	3 600.8 (55 748)	3 649.2 (56 232)	3 697.5 (56 715)	
	10 MHz	3 555.0 (55 290)	3 601.7 (55 757)	3 648.3 (56 223)	3 695.0 (56 690)	
	15 MHz	3 557.5 (55 315)	3 602.5 (55 765)	3 647.5 (56 215)	3 692.5 (56 665)	
	20 MHz	3 560.0 (55 340)	3 603.3 (55 773)	3 646.7 (56 207)	3 690.0 (56 640)	
LTE Band 66 (Main1)	1.4 MHz	1 710.7 (131 979)		1 745.0 (132 322)		1 779.3 (132 665)
	3 MHz	1 711.5 (131 987)		1 745.0 (132 322)		1 778.5 (132 657)
	5 MHz	1 712.5 (131 997)		1 745.0 (132 322)		1 777.5 (132 647)
	10 MHz	1 715.0 (132 022)		1 745.0 (132 322)		1 775.0 (132 622)
	15 MHz	1 717.5 (132 047)		1 745.0 (132 322)		1 772.5 (132 597)
	20 MHz	1 720.0 (132 072)		1 745.0 (132 322)		1 770.0 (132 572)
LTE Band 66 (Sub1)	1.4 MHz	1 710.7 (131 979)		1 745.0 (132 322)		1 779.3 (132 665)
	3 MHz	1 711.5 (131 987)		1 745.0 (132 322)		1 778.5 (132 657)
	5 MHz	1 712.5 (131 997)		1 745.0 (132 322)		1 777.5 (132 647)
	10 MHz	1 715.0 (132 022)		1 745.0 (132 322)		1 775.0 (132 622)
	15 MHz	1 717.5 (132 047)		1 745.0 (132 322)		1 772.5 (132 597)
	20 MHz	1 720.0 (132 072)		1 745.0 (132 322)		1 770.0 (132 572)
LTE Band 71	5 MHz	665.5 (133 147)		680.5 (133 297)		695.5 (133 447)
	10 MHz	668.0 (133 172)		680.5 (133 297)		693.0 (133 422)
	15 MHz	670.5 (133 197)		680.5 (133 297)		690.5 (133 397)
	20 MHz	673.0 (133 222)		680.5 (133 297)		688.0 (133 372)

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LTE Information	
UE Category	DL: 18 / UL: 18
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3 ~ 6.2.5?(manufacturer attestation to be provided)	YES
A-MPR(Additional MPR) disabled for SAR Testing?	YES
LTE Carrier Aggregation Possible Combinations	This device supports LTE UL/DL CA.
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation as shown in Appendix C. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.



4. #5G NR Information

5G NR Information				
Form Factor		Tablet PC		
Frequency Range of each 5G NR transmission band		5G NR n2: 1 852.5 MHz ~ 1 907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n12: 701.5 MHz ~ 713.5MHz 5G NR n25: 1 852.5 MHz ~ 1 912.5 MHz 5G NR n30: 2 307.5 MHz ~ 2 312.5 MHz 5G NR n41: 2 501.01 MHz ~ 2 685.00 MHz 5G NR n48: 3 555.00 MHz ~ 3 694.98 MHz 5G NR n66: 1712.5 MHz ~ 1775.0 MHz 5G NR n71: 665.5 MHz ~ 695.5 MHz 5G NR n77 DoD: 3 455.01 MHz ~ 3 544.98 MHz 5G NR n77: 3 705.00 MHz ~ 3 975.00 MHz 5G NR n78: 3 455.01 MHz ~ 3 544.98 MHz		
Mode	Band	Duplex	SCS(kHz)	Bandwidths(BW)
SA, NSA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 40
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n77 DoD	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100

5G NR Information							
Channel Numbers and Frequencies(MHz)		Low		Mid		High	
Band	Bandwidths						
NR Band n2	5 MHz	1 852.5 (370 500)		1 880 (376 000)		1 907.5 (381 500)	
	10 MHz	1 855 (371 000)		1 880 (376 000)		1 905 (381 000)	
	15 MHz	1 857.5 (371 500)		1 880 (376 000)		1 902.5 (380 500)	
	20 MHz	1860 (372000)		1 880 (376 000)		1 900 (380 000)	
NR Band n5	5 MHz	826.5 (165 300)		836.5 (167 300)		846.5 (169 300)	
	10 MHz	829.0 (165 800)		836.5 (167 300)		844.0 (168 800)	
	15 MHz	831.5 (166 300)		836.5 (167 300)		841.5 (168 300)	
	20 MHz	834.0 (166 800)		836.5 (167 300)		839.0 (167 800)	
NR Band n12	5 MHz	701.5 (140300)		707.5 (141 500)		713.5 (142700)	
	10 MHz	704.0 (140800)		707.5 (141 500)		711 (142200)	
	15 MHz	706.5 (141 300)		707.5 (141 500)		708.5 (141 700)	
NR Band n25	5 MHz	1 852.5 (370 500)		1 882.5 (376 500)		1 912.5 (382 500)	
	10 MHz	1 855.0 (371 000)		1 882.5 (376 500)		1 910.0 (382 000)	
	15 MHz	1 857.5 (371 500)		1 882.5 (376 500)		1 907.5 (381 500)	
	20 MHz	1 860.0 (372 000)		1 882.5 (376 500)		1 905.0 (381 000)	
NR Band n30	5 MHz	2 307.5(461 500)		2 310.0 (462 000)		2 312.5 (462 500)	
	10 MHz	-		2 310.0 (462 000)		-	
NR Band n41 (Power Class 2)	10 MHz	2 501.01 (500 202)	2 547.00 (509 400)	2 592.99 (518 598)	2 639.01 (527 802)	2 685.00 (537 000)	
	15 MHz	2 503.50 (500 700)	2 548.26 (509 652)	2 592.99 (518 598)	2 637.75 (527 550)	2 682.48 (536 496)	
	20 MHz	2 506.02 (501 204)	2 549.49 (509 898)	2 592.99 (518 598)	2 636.49 (527 298)	2 679.99 (535 998)	
	30 MHz	2 511.00 (502 200)	2 552.01 (510 402)	2 592.99 (518 598)	2 592.99 (518 598)	2 674.98 (534 996)	
	40 MHz	2 516.01 (503 202)		2 567.34 (513 468)	2 618.67 (523 734)		2 670.00 (534 000)
	50 MHz	2 521.02 (504 204)		2 592.99 (518 598)		2 664.99 (532 998)	
	60 MHz	2 526.00 (505 200)		2 592.99 (518 598)		2 659.98 (531 996)	
	70 MHz	2 531.01 (506 202)		-		2 655.00 (531 000)	
	80 MHz	2 536.02 (507 204)		-		2 649.99 (529 998)	
	90 MHz	2 541.00 (508 200)		-		2 644.98 (528 996)	
100 MHz	2 546.01 (509 202)		2 592.99 (518 598)		2 640.00 (528 000)		

5G NR Information						
Channel Numbers and Frequencies(MHz)		Low		Mid		High
Band	Bandwidths					
NR Band n41 (Power Class 3)	10 MHz	2 501.01 (500 202)	2 547.00 (509 400)	2 592.99 (518 598)	2 639.01 (527 802)	2 685.00 (537 000)
	15 MHz	2 503.50 (500 700)	2 548.26 (509 652)	2 592.99 (518 598)	2 637.75 (527 550)	2 682.48 (536 496)
	20 MHz	2 506.02 (501 204)	2 549.49 (509 898)	2 592.99 (518 598)	2 636.49 (527 298)	2 679.99 (535 998)
	30 MHz	2 511.00 (502 200)	2 552.01 (510 402)	2 592.99 (518 598)	2 592.99 (518 598)	2 674.98 (534 996)
	40 MHz	2 516.01 (503 202) 2 567.34 (513 468)		2 618.67 (523 734)		2 670.00 (534 000)
	50 MHz	2 521.02 (504 204)		2 592.99 (518 598)		2 664.99 (532 998)
	60 MHz	2 526.00 (505 200)		2 592.99 (518 598)		2 659.98 (531 996)
	70 MHz	2 531.01 (506 202)		-		2 655.00 (531 000)
	80 MHz	2 536.02 (507 204)		-		2 649.99 (529 998)
	90 MHz	2 541.00 (508 200)		-		2 644.98 (528 996)
100 MHz	2 546.01 (509 202)		2 592.99 (518 598)		2 640.00 (528 000)	
NR Band n48	10 MHz	3 555.00 (637 000)	3 601.65 (640 110)	3 648.33 (643 222)	3 694.98 (646 332)	
	15 MHz	3 557.52 (637 168)	3 602.49 (640 166)	3 647.49 (643 166)	3 692.49 (646 166)	
	20 MHz	3 560.01 (637 334)	3 603.33 (640 222)	3 646.68 (643 112)	3 690.00 (646 000)	
	40 MHz	3 570.00 (638 000)		3 624.99 (641 666)	3 679.98 (645 332)	
NR Band n48 SRS #1	10 MHz	3 555.00 (637 000)	3 601.65 (640 110)	3 648.33 (643 222)	3 694.98 (646 332)	
	15 MHz	3 557.52 (637 168)	3 602.49 (640 166)	3 647.49 (643 166)	3 692.49 (646 166)	
	20 MHz	3 560.01 (637 334)	3 603.33 (640 222)	3 646.68 (643 112)	3 690.00 (646 000)	
	40 MHz	3 570.00 (638 000)		3 624.99 (641 666)	3 679.98 (645 332)	
NR Band n48 SRS #2	10 MHz	3 555.00 (637 000)	3 601.65 (640 110)	3 648.33 (643 222)	3 694.98 (646 332)	
	15 MHz	3 557.52 (637 168)	3 602.49 (640 166)	3 647.49 (643 166)	3 692.49 (646 166)	
	20 MHz	3 560.01 (637 334)	3 603.33 (640 222)	3 646.68 (643 112)	3 690.00 (646 000)	
	40 MHz	3 570.00 (638 000)		3 624.99 (641 666)	3 679.98 (645 332)	
NR Band n48 SRS #3	10 MHz	3 555.00 (637 000)	3 601.65 (640 110)	3 648.33 (643 222)	3 694.98 (646 332)	
	15 MHz	3 557.52 (637 168)	3 602.49 (640 166)	3 647.49 (643 166)	3 692.49 (646 166)	
	20 MHz	3 560.01 (637 334)	3 603.33 (640 222)	3 646.68 (643 112)	3 690.00 (646 000)	
	40 MHz	3 570.00 (638 000)		3 624.99 (641 666)	3 679.98 (645 332)	
NR Band n66	5 MHz	1 712.5 (342 500)		1 745.0 (349 000)		1 777.5 (355 500)
	10 MHz	1 715.0 (343 000)		1 745.0 (349 000)		1 775.0 (355 000)
	15 MHz	1 717.5 (343 500)		1 745.0 (349 000)		1 772.5 (354 500)
	20 MHz	1 720.0 (344 000)		1 745.0 (349 000)		1 770.0 (354 000)
	25 MHz	1 722.5 (344 500)		1 745.0 (349 000)		1 767.5 (353 500)
	30 MHz	1 725.0 (345 000)		1 745.0 (349 000)		1 765.0 (353 000)
	40 MHz	1 730.0 (346 000)		1 745.0 (349 000)		1 760.0 (352 000)

5G NR Information				
Channel Numbers and Frequencies(MHz)		Low	Mid	High
Band	Bandwidths			
NR Band n71	5 MHz	665.5 (133 100)	680.5 (136 100)	695.5 (139 100)
	10 MHz	668.0 (133 600)	680.5 (136 100)	693.0 (138 600)
	15 MHz	-	680.5 (136 100)	-
	20 MHz	-	680.5 (136 100)	-
NR Band n77 (Power Class 2_lower)	10 MHz	3 455.01 (630 334)	3 500.01 (633 334)	3 544.98 (636 322)
	15 MHz	3 457.50 (630 500)	3 500.01 (633 334)	3 542.49 (636 166)
	20 MHz	3 460.02 (630 668)	3 500.01 (633 334)	3 540.00 (636 000)
	25 MHz	3 462.51 (630 834)	3 500.01 (633 334)	3 537.48 (635 832)
	30 MHz	3 465.00 (631 000)	3 500.01 (633 334)	3 534.99 (635 666)
	40 MHz	3 470.01 (631 334)	-	3 529.98 (635 332)
	50 MHz	3 475.02 (631 668)	-	3 525.00 (635 000)
	60 MHz	-	3 500.01 (633 334)	-
	70 MHz	-	3 500.01 (633 334)	-
	80 MHz	-	3 500.01 (633 334)	-
	90 MHz	-	3 500.01 (633 334)	-
NR Band n77 (Power Class 3_lower)	10 MHz	3 455.01 (630 334)	3 500.01 (633 334)	3 544.98 (636 322)
	15 MHz	3 457.50 (630 500)	3 500.01 (633 334)	3 542.49 (636 166)
	20 MHz	3 460.02 (630 668)	3 500.01 (633 334)	3 540.00 (636 000)
	25 MHz	3 462.51 (630 834)	3 500.01 (633 334)	3 537.48 (635 832)
	30 MHz	3 465.00 (631 000)	3 500.01 (633 334)	3 534.99 (635 666)
	40 MHz	3 470.01 (631 334)	-	3 529.98 (635 332)
	50 MHz	3 475.02 (631 668)	-	3 525.00 (635 000)
	60 MHz	-	3 500.01 (633 334)	-
	70 MHz	-	3 500.01 (633 334)	-
	80 MHz	-	3 500.01 (633 334)	-
	90 MHz	-	3 500.01 (633 334)	-
100 MHz	-	3 500.01 (633 334)	-	

5G NR Information							
Channel Numbers and Frequencies(MHz)		Low		Mid		High	
Band	Bandwidths						
NR Band n77 (Power Class 2_upper)	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)
	15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)
	20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (654 266)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)
	25 MHz	3 712.50 (647 500)	3 763.50 (650 900)	3 814.50 (654 300)	3 865.50 (657 700)	3 916.50 (661 100)	3 967.50 (664 500)
	30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)
	40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)
	50 MHz	3 725.01 (648 334)	3 782.49 (652 166)	3 840.00 (656 000)	3 897.51 (659 834)	3 954.99 (663 666)	
	60 MHz	3 730.02 (648 668)	3803.34 (653 556)	3 876.66 (658 444)	3 949.98 (663 332)		
	70 MHz	3 735.00 (649 000)	3804.99 (653 666)	3 875.01 (658 334)	3 945.00 (663 000)		
	80 MHz	3 740.01 (649 334)	3 840.00 (656 000)	3 939.99 (662 666)			
	90 MHz	3 745.02 (649 668)	3 840.00 (656 000)	3 934.98 (662 332)			
100 MHz	3 750.00 (650 000)	-	3 930.00 (662 000)				
NR Band n77 (Power Class 3_upper)	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)
	15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)
	20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (654 266)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)
	25 MHz	3 712.50 (647 500)	3 763.50 (650 900)	3 814.50 (654 300)	3 865.50 (657 700)	3 916.50 (661 100)	3 967.50 (664 500)
	30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)
	40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)
	50 MHz	3 725.01 (648 334)	3 782.49 (652 166)	3 840.00 (656 000)	3 897.51 (659 834)	3 954.99 (663 666)	
	60 MHz	3 730.02 (648 668)	3803.34 (653 556)	3 876.66 (658 444)	3 949.98 (663 332)		
	70 MHz	3 735.00 (649 000)	3804.99 (653 666)	3 875.01 (658 334)	3 945.00 (663 000)		
	80 MHz	3 740.01 (649 334)	3 840.00 (656 000)	3 939.99 (662 666)			
	90 MHz	3 745.02 (649 668)	3 840.00 (656 000)	3 934.98 (662 332)			
100 MHz	3 750.00 (650 000)	-	3 930.00 (662 000)				
NR Band n77 SRS #1(lower)	10 MHz	3 455.01 (630 334)	3 500.01 (633 334)	3 544.98 (636 322)			
	15 MHz	3 457.50 (630 500)	3 500.01 (633 334)	3 542.49 (636 166)			
	20 MHz	3 460.02 (630 668)	3 500.01 (633 334)	3 540.00 (636 000)			
	25 MHz	3 462.51 (630 834)	3 500.01 (633 334)	3 537.48 (635 832)			
	30 MHz	3 465.00 (631 000)	3 500.01 (633 334)	3 534.99 (635 666)			
	40 MHz	3 470.01 (631 334)	-	3 529.98 (635 332)			
	50 MHz	3 475.02 (631 668)	-	3 525.00 (635 000)			
	60 MHz	-	3 500.01 (633 334)	-			
	70 MHz	-	3 500.01 (633 334)	-			
	80 MHz	-	3 500.01 (633 334)	-			
	90 MHz	-	3 500.01 (633 334)	-			
100 MHz	-	3 500.01 (633 334)	-				

5G NR Information							
Channel Numbers and Frequencies(MHz)		Low		Mid		High	
Band	Bandwidths						
NR Band n77 SRS #1(upper)	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)
	15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)
	20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (654 266)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)
	25 MHz	3 712.50 (647 500)	3 763.50 (650 900)	3 814.50 (654 300)	3 865.50 (657 700)	3 916.50 (661 100)	3 967.50 (664 500)
	30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)
	40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)
	50 MHz	3 725.01 (648 334)	3 782.49 (652 166)	3 840.00 (656 000)	3 897.51 (659 834)	3 954.99 (663 666)	
	60 MHz	3 730.02 (648 668)	3 803.34 (653 556)	3 876.66 (658 444)	3 949.98 (663 332)		
	70 MHz	3 735.00 (649 000)	3 804.99 (653 666)	3 875.01 (658 334)	3 945.00 (663 000)		
	80 MHz	3 740.01 (649 334)		3 840.00 (656 000)	3 939.99 (662 666)		
	90 MHz	3 745.02 (649 668)		3 840.00 (656 000)	3 934.98 (662 332)		
	100 MHz	3 750.00 (650 000)		-	3 930.00 (662 000)		
NR Band n77 SRS #2(lower)	10 MHz	3 455.01 (630 334)		3 500.01 (633 334)	3 544.98 (636 322)		
	15 MHz	3 457.50 (630 500)		3 500.01 (633 334)	3 542.49 (636 166)		
	20 MHz	3 460.02 (630 668)		3 500.01 (633 334)	3 540.00 (636 000)		
	25 MHz	3 462.51 (630 834)		3 500.01 (633 334)	3 537.48 (635 832)		
	30 MHz	3 465.00 (631 000)		3 500.01 (633 334)	3 534.99 (635 666)		
	40 MHz	3 470.01 (631 334)		-	3 529.98 (635 332)		
	50 MHz	3 475.02 (631 668)		-	3 525.00 (635 000)		
	60 MHz	-		3 500.01 (633 334)	-		
	70 MHz	-		3 500.01 (633 334)	-		
	80 MHz	-		3 500.01 (633 334)	-		
	90 MHz	-		3 500.01 (633 334)	-		
	100 MHz	-		3 500.01 (633 334)	-		

5G NR Information							
Channel Numbers and Frequencies(MHz)		Low		Mid		High	
Band	Bandwidths						
NR Band n77 SRS #2(upper)	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)
	15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)
	20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (654 266)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)
	25 MHz	3 712.50 (647 500)	3 763.50 (650 900)	3 814.50 (654 300)	3 865.50 (657 700)	3 916.50 (661 100)	3 967.50 (664 500)
	30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)
	40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)
	50 MHz	3 725.01 (648 334)	3 782.49 (652 166)	3 840.00 (656 000)	3 897.51 (659 834)	3 954.99 (663 666)	
	60 MHz	3 730.02 (648 668)	3 803.34 (653 556)	3 876.66 (658 444)	3 949.98 (663 332)		
	70 MHz	3 735.00 (649 000)	3 804.99 (653 666)	3 875.01 (658 334)	3 945.00 (663 000)		
	80 MHz	3 740.01 (649 334)		3 840.00 (656 000)	3 939.99 (662 666)		
	90 MHz	3 745.02 (649 668)		3 840.00 (656 000)	3 934.98 (662 332)		
100 MHz	3 750.00 (650 000)		-	3 930.00 (662 000)			
NR Band n77 SRS #3(lower)	10 MHz	3 455.01 (630 334)		3 500.01 (633 334)	3 544.98 (636 322)		
	15 MHz	3 457.50 (630 500)		3 500.01 (633 334)	3 542.49 (636 166)		
	20 MHz	3 460.02 (630 668)		3 500.01 (633 334)	3 540.00 (636 000)		
	25 MHz	3 462.51 (630 834)		3 500.01 (633 334)	3 537.48 (635 832)		
	30 MHz	3 465.00 (631 000)		3 500.01 (633 334)	3 534.99 (635 666)		
	40 MHz	3 470.01 (631 334)		-	3 529.98 (635 332)		
	50 MHz	3 475.02 (631 668)		-	3 525.00 (635 000)		
	60 MHz	-		3 500.01 (633 334)	-		
	70 MHz	-		3 500.01 (633 334)	-		
	80 MHz	-		3 500.01 (633 334)	-		
	90 MHz	-		3 500.01 (633 334)	-		
100 MHz	-		3 500.01 (633 334)	-			
NR Band n77 SRS #3(upper)	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)
	15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)
	20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (654 266)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)
	25 MHz	3 712.50 (647 500)	3 763.50 (650 900)	3 814.50 (654 300)	3 865.50 (657 700)	3 916.50 (661 100)	3 967.50 (664 500)
	30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)
	40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)
	50 MHz	3 725.01 (648 334)	3 782.49 (652 166)	3 840.00 (656 000)	3 897.51 (659 834)	3 954.99 (663 666)	
	60 MHz	3 730.02 (648 668)	3 803.34 (653 556)	3 876.66 (658 444)	3 949.98 (663 332)		
	70 MHz	3 735.00 (649 000)	3 804.99 (653 666)	3 875.01 (658 334)	3 945.00 (663 000)		
	80 MHz	3 740.01 (649 334)		3 840.00 (656 000)	3 939.99 (662 666)		
	90 MHz	3 745.02 (649 668)		3 840.00 (656 000)	3 934.98 (662 332)		
	100 MHz	3 750.00 (650 000)		-	3 930.00 (662 000)		

5G NR Information				
Channel Numbers and Frequencies(MHz)		Low	Mid	High
Band	Bandwidths			
NR Band n78	10 MHz	3 455.01 (630 334)	3 500.01 (633 334)	3 544.98 (636 322)
	15 MHz	3 457.50 (630 500)	3 500.01 (633 334)	3 542.49 (636 166)
	20 MHz	3 460.02 (630 668)	3 500.01 (633 334)	3 540.00 (636 000)
	25 MHz	3 462.51 (630 834)	3 500.01 (633 334)	3 537.48 (635 832)
	30 MHz	3 465.00 (631 000)	3 500.01 (633 334)	3 534.99 (635 666)
	40 MHz	3 470.01 (631 334)	-	3 529.98 (635 332)
	50 MHz	3 475.02 (631 668)	-	3 525.00 (635 000)
	60 MHz	-	3 500.01 (633 334)	-
	70 MHz	-	3 500.01 (633 334)	-
	80 MHz	-	3 500.01 (633 334)	-
	90 MHz	-	3 500.01 (633 334)	-
	100 MHz	-	3 500.01 (633 334)	-
NR Band n2/n5/n12/n25/n30/n66/n71 SCS		15 kHz		
NR Band n41/n48/n77/n78 SCS		30 kHz		
3GPP Rel.		Rel.16		
5G NR UL/DL FR1		DFT-s-OFDM : $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM : QPSK, 16QAM, 64QAM, 256QAM		
Non Standalone & Standalone are supported.		SA & NSA supported.		
A-MPR(Additional MPR) disabled for SAR Testing?		YES		
NR MPR Permanently implemented per 3GPP TS 38.101		YES		
EN-DC Carrier Aggregation Possible Combinations				
LTE Anchor Bands for NR Band n2		LTE Band 5/12/13/14/71/48		
LTE Anchor Bands for NR Band n5		LTE Band 2/7/30/66/48		
LTE Anchor Bands for NR Band n12		LTE Band 2/66		
LTE Anchor Bands for NR Band n25		LTE Band 12/48		
LTE Anchor Bands for NR Band n30		LTE Band 2/5/12/14/66		
LTE Anchor Bands for NR Band n66 (AWS)		LTE Band 5/7/12/13/14/71/48		
LTE Anchor Bands for NR Band n71		LTE Band 2/7/66/48		
LTE Anchor Bands for NR Band n41		LTE Band 2/4/12/25/66/71		
LTE Anchor Bands for NR Band n48		LTE Band 2/66		
LTE Anchor Bands for NR Band n77		LTE Band 2/5/7/12/13/14/30/66		
LTE Anchor Bands for NR Band n78		LTE Band 2/4/5/7/12/13/66/71		
LTE Anchor Bands for NR Band n25		LTE Band 12/48		

5. Specific Absorption Rate

5.1 Introduction

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

5.2 SAR Definition

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

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \left(\frac{\sigma |E|^2}{\rho} \right)$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

6. SAR Measurement Procedures

6.1 SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.


Step 2: Area Scan & Zoom Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot and Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly. Area Scan & Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.

		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm ± 1 mm	$\frac{1}{2} \delta \cdot \ln(2)$ mm 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 · $\Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z	≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details. * When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 3: Power drift measurement

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

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7. SAR Measurement Configurations

7.1 SAR Testing for Tablet Configurations

Per FCC KDB Publication 616217 D04v01r02, for the back surface and edges of the tablet should be tested touching the phantom.

SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand next to the antenna.

The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configuration. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

7.2 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close to the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions.



8. RF Exposure Limits

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

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

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Partial Peak SAR ¹⁾ (Partial)	1.60 mW/g	8.00 mW/g
Partial Average SAR ²⁾ (Whole Body)	0.08 mW/g	0.40 mW/g
Partial Peak SAR ³⁾ (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

- 1) The spatial Peak value of the SAR averaged over any 1g gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 2) The spatial Average value of the SAR averaged over the whole body.
- 3) 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.

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9. FCC SAR General Measurement Procedures

9.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

9.3 Procedures Used to Establish RF Signal for SAR



The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

9.4 SAR Measurement Conditions for UMTS

9.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or 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, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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9.4.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2kbps RMC with the TPC bits all “1s”. 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 and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2kbps RMC.

9.4.3 SAR Measurements with Rel. 5 HSDPA



The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

9.4.4 SAR Measurements with Rel. 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

9.4.5 SAR Measurements with Rel. 8 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 secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable

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9.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

9.5.1 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.

9.5.2 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.

9.5.3 A-MPR

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

9.5.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

1. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - a. The required channel and offset combination with the highest maximum output power is required for SAR.
 - b. When the reported SAR is ≤ 0.8 W/Kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - c. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel
2. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Sec 4.2.1.
3. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
4. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/Kg.

9.5.5 LTE(TDD) Considerations

According to KDB 941225 D05v02r05, 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 sub-frame configuration 6.

LTE TDD Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

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

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

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

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $(5120 \times [1/(15000 \times 2048)] \times 2 + 0.006)/0.01 = 63.33 \%$

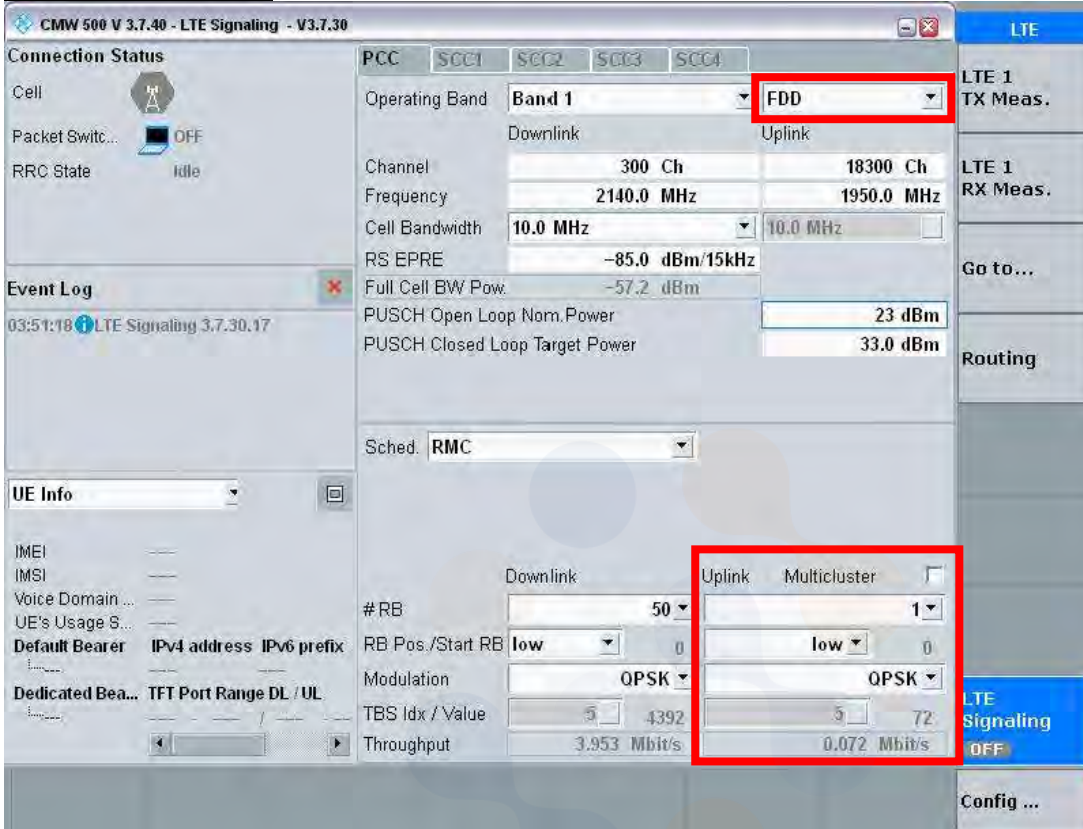
$T_s = 1/(15000 \times 2048)$ seconds

Note: This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1.

9.5.6 The LTE Call box establishment procedure

This is an explanation of the establishment of LTE FDD/TDD.

<FDD Configuration>



The screenshot displays the configuration window for LTE 1. The 'Operating Band' is set to 'FDD'. The 'Uplink Multicenter' checkbox is checked. The configuration parameters are as follows:

Parameter	Downlink	Uplink
Operating Band	Band 1	FDD
Channel	300 Ch	18300 Ch
Frequency	2140.0 MHz	1950.0 MHz
Cell Bandwidth	10.0 MHz	10.0 MHz
RS EPRE	-85.0 dBm/15kHz	
Full Cell BW Pow.	-57.2 dBm	
PUSCH Open Loop Nom.Power		23 dBm
PUSCH Closed Loop Target Power		33.0 dBm
Sched.	RMC	
#RB	50	1
RB Pos./Start RB	low 0	low 0
Modulation	QPSK	QPSK
TBS Idx / Value	5 / 4392	5 / 72
Throughput	3.953 Mbit/s	0.072 Mbit/s

<TDD Configuration>

CMW 500 V 3.7.40 - LTE Signaling - V3.7.30

Connection Status: Cell, Packet Switching OFF, RRC State Idle

Event Log: 03:51:18 LTE Signaling 3.7.30.17

UE Info: IMEI, IMSI, Voice Domain, UE's Usage, Default Bearer, Dedicated Bearer

Operating Band: Band 41 (TDD)

Channel: 40620 Ch (Downlink), 40620 Ch (Uplink)

Frequency: 2593.0 MHz (Downlink), 2593.0 MHz (Uplink)

Cell Bandwidth: 10.0 MHz (Downlink), 10.0 MHz (Uplink)

RS EPRE: -85.0 dBm/15kHz (Downlink), -85.0 dBm/15kHz (Uplink)

Full Cell BW Pow: -57.2 dBm (Downlink), -57.2 dBm (Uplink)

PUSCH Open Loop Nom.Power: 23 dBm (Uplink)

PUSCH Closed Loop Target Power: 33.0 dBm (Uplink)

Sched: RMC

#RB: 50 (Downlink), 1 (Uplink)

RB Pos./Start RB: low (Downlink), low (Uplink)

Modulation: QPSK (Downlink), QPSK (Uplink)

TBS Idx / Value: 5 / 4392 (Downlink), 5 / 72 (Uplink)

Throughput: 1.966 Mbit/s (Downlink), 0.029 Mbit/s (Uplink)

LTE Signaling - Configuration

Path: Physical Cell Setup/TDD/Special Subframe

Duplex Mode: TDD (Use Carrier Specific:)

Scenario: Search... 1CC - 1x1

Base Band Unit: SUW1

RF Settings

Downlink Power Levels

Uplink Power Control

Physical Cell Setup

- DL Cell Bandwidth: 10.0 MHz (#RB Max: 50)
- UL Cell Bandwidth: 10.0 MHz
- Physical Cell ID: 0
- Cyclic Prefix: Normal
- Sounding RS (SRS):
- SRS:
- TDD**
 - Use Carrier Specific:
 - Uplink Downlink Configuration: 0
 - Subframe Number: 0 1 2 3 4 5 6 7 8 9
 - Direction: ↓ S ↑ S ↑ S ↑ S ↑ S ↑ S ↑ S ↑ S
 - Special Subframe: 6
- PRACH:
- Network:
- Connection:
- COI Reporting:

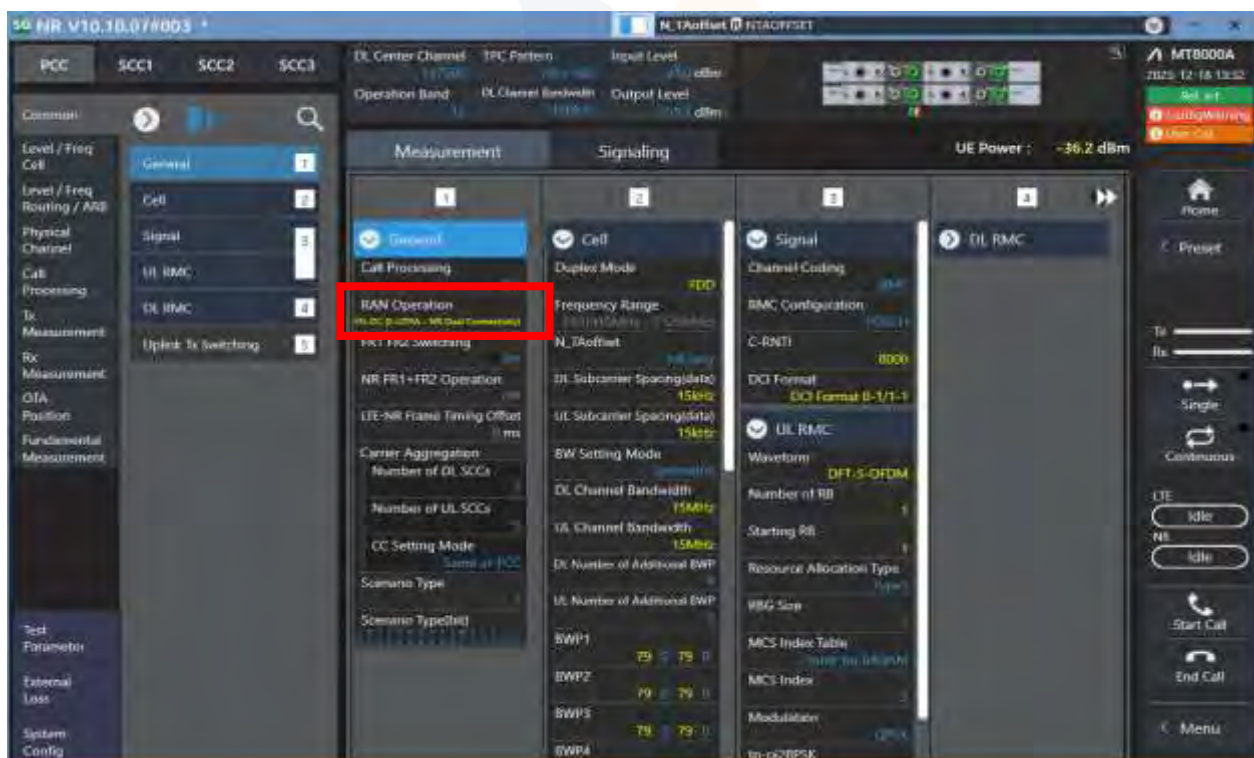
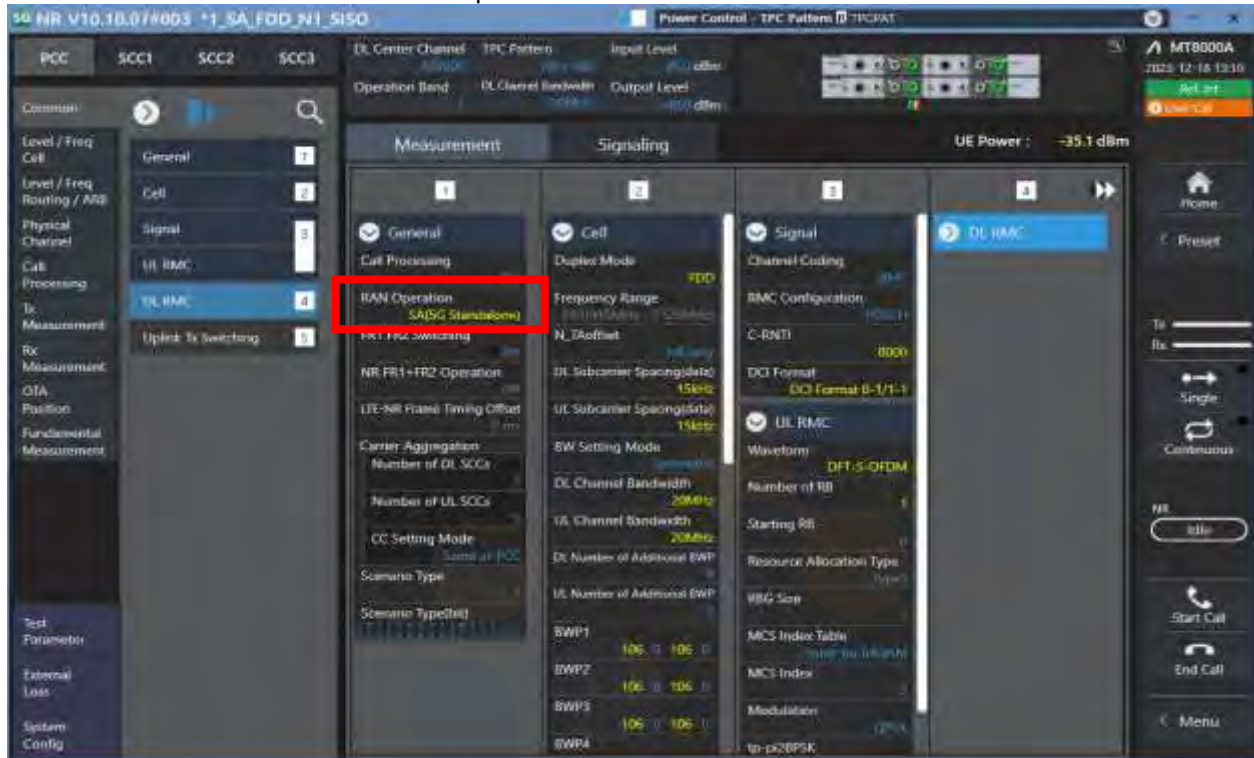
Note: LTE TDD Uplink Downlink configuration 0 and Special subframe Configuration 6.

9.5.7 The 5G NR Call box establishment procedure

This is an explanation of the establishment of 5G NR SA & NSA and FDD & TDD.

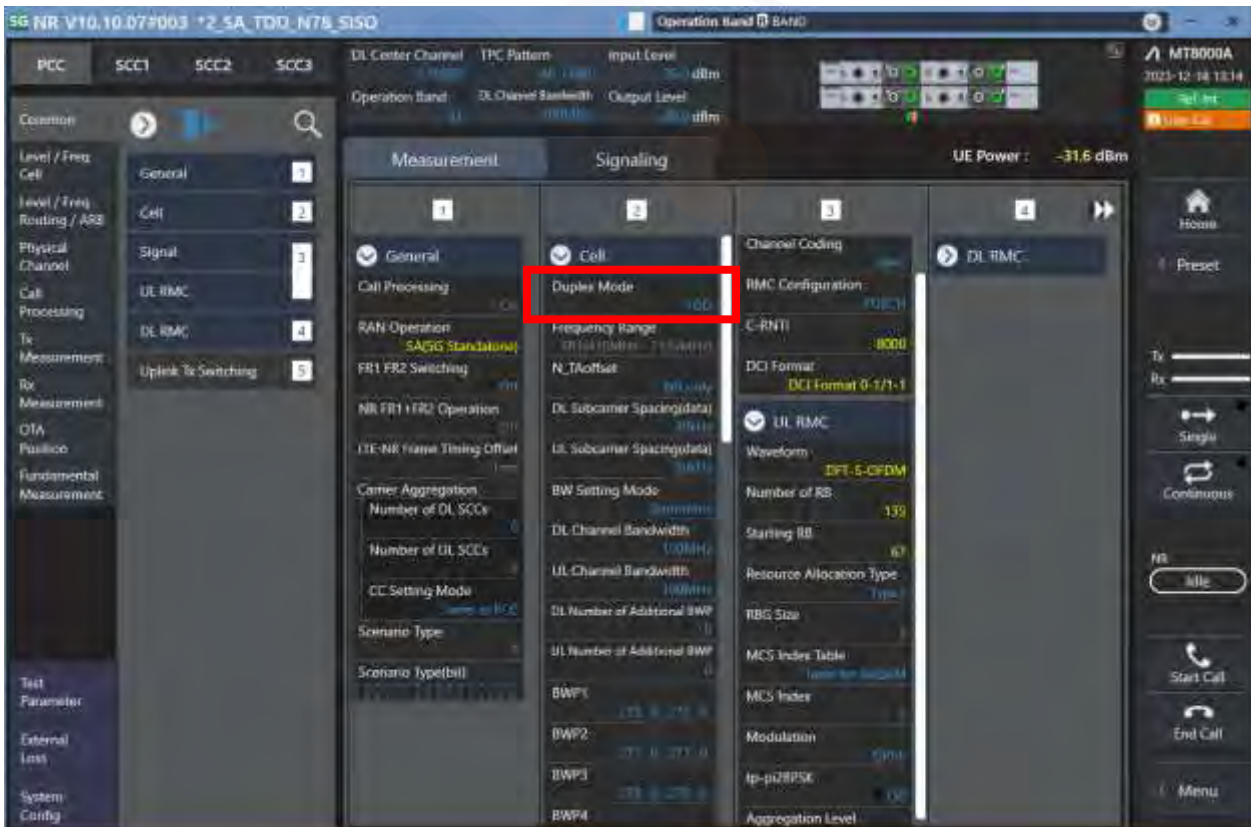
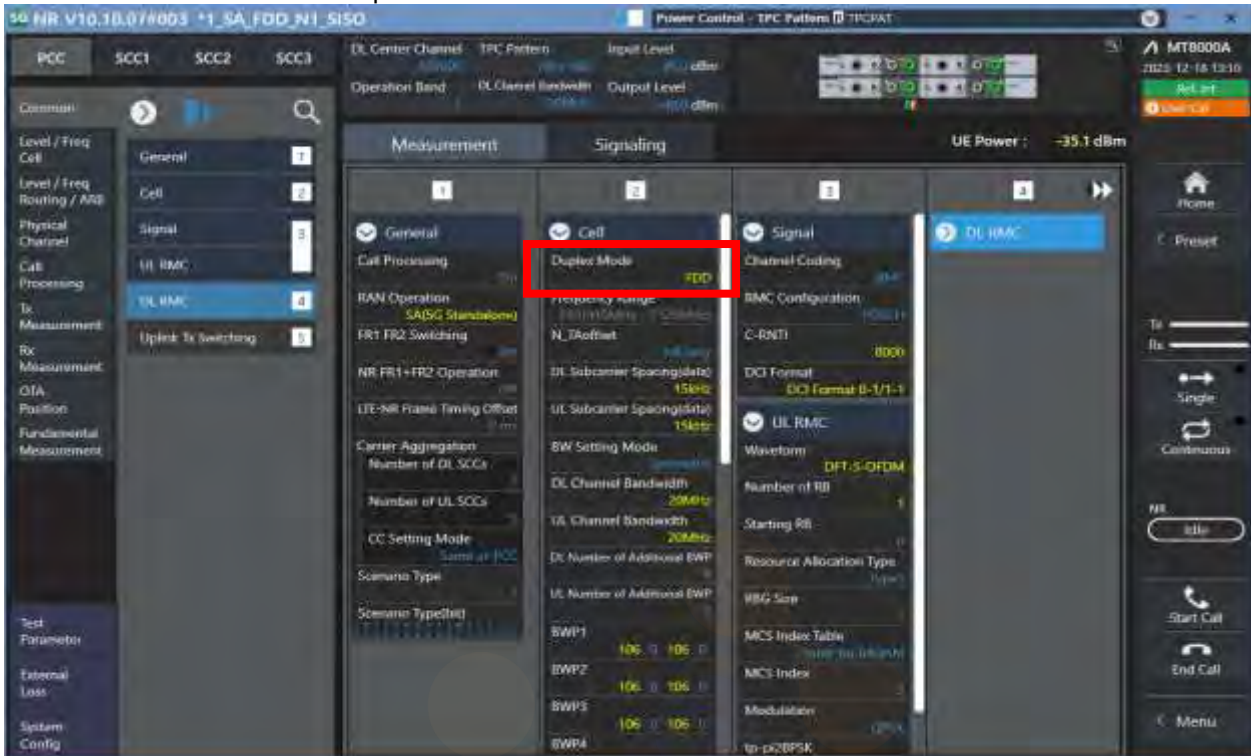
Switching to NSA mode or SA Mode

- Common -> General -> RAN Operation -> SA or ENDC



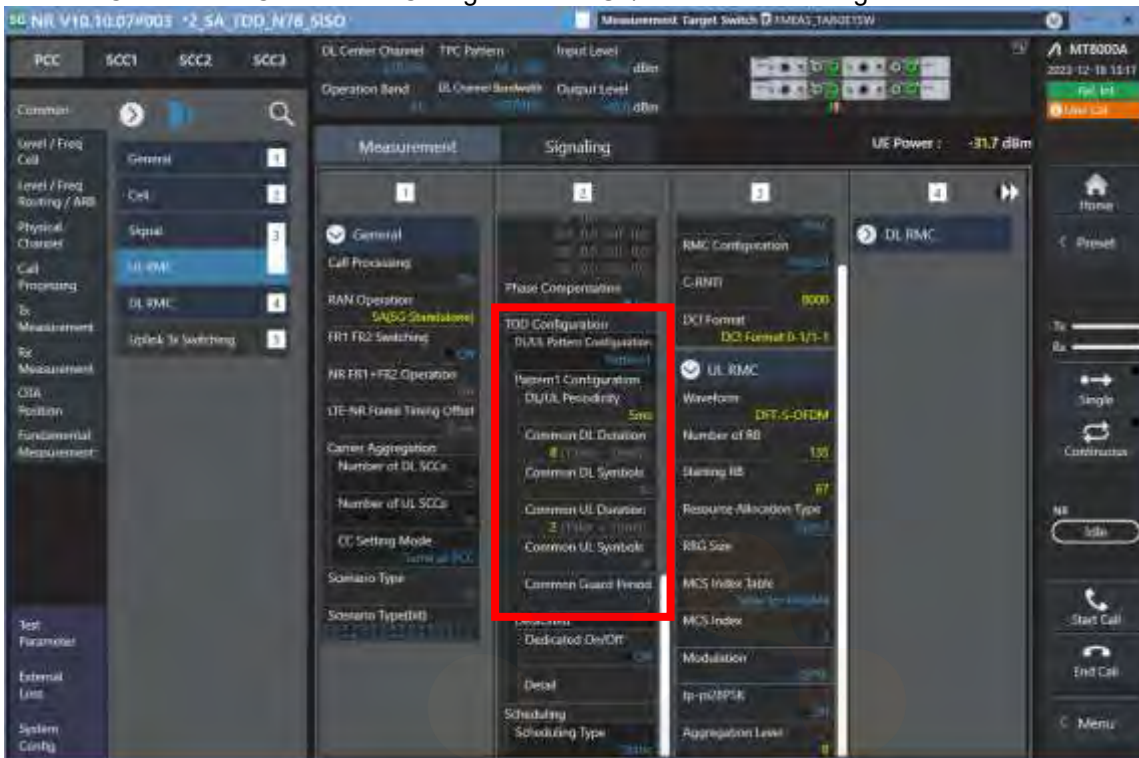
Switching to FDD mode or TDD Mode

- Common -> Cell -> Duplex Mode -> FDD or TDD



Duty cycle settings in TDD Mode

- Common -> Cell -> TDD Configuration -> UL/DL Duration setting



Note: The 5G NR TDD band of this device was tested at 100% duty in FTM mode provided by the manufacturer.

9.5.7 NR (Sub 6 GHz) Considerations

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Modulation	MPR(dB)		
	Edge RB allocation	Outer RB allocation	Inner RB allocation
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16QAM	≤ 2		≤ 1
DFT-s-OFDM 64QAM	≤ 2.5		
DFT-s-OFDM 256QAM	≤ 4.5		
CP-OFDM QPSK	≤ 3	≤ 1.5	
CP-OFDM 16QAM	≤ 3	≤ 2	
CP-OFDM 64QAM	≤ 3.5		
CP-OFDM 256QAM	≤ 6.5		
NOTE 1:	Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.		
NOTE 2:	Applicable for UE operating in FDD mode, or in TDD mode in bands other than 40, n41, n77, n78 and n79 and if The IE powerBoostPi2BPSK is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.		



The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network

Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel Bandwidth (MHz)	Resources Blocks(NRB)	A-MPR(dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

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9.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable.

9.6.1 General Device Setup



Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 – 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

9.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency point requirements.

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9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

9.6.5 2.4 GHz SAR Test Requirement



SAR is measured for 2.4 GHz 802.11b DSSS using either the 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 position using the next highest measured output power channel; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM are additionally evaluated for SAR if highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz band, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

<p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p>	<p>Report No.: KR23-SPF0043-B Page (51) of (910)</p>	 
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9.6.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

9.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

10. RF Average Conducted Output Power

10.1 WCDMA Average Conducted Output Power

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		9 262	9 400	9 538	
		1 852.4 MHz	1 880.0 MHz	1 907.6 MHz	
WCDMA II	RMC	24.83	24.74	24.89	-
	HSDPA-Subtest 1	23.41	23.39	23.45	0
	HSDPA-Subtest 2	23.02	22.99	22.70	0
	HSDPA-Subtest 3	22.15	22.14	22.16	0.5
	HSDPA-Subtest 4	21.62	21.95	21.59	0.5
	HSUPA-Subtest 1	22.35	22.27	22.10	0
	HSUPA-Subtest 2	20.21	20.05	20.01	2
	HSUPA-Subtest 3	22.40	22.21	22.12	1
	HSUPA-Subtest 4	20.46	20.26	20.13	2
	HSUPA-Subtest 5	23.41	23.24	23.20	0
	DC-HSDPA-Subtest 1	23.30	23.39	23.46	0
	DC-HSDPA-Subtest 2	23.13	23.05	23.02	0
	DC-HSDPA-Subtest 3	22.20	22.14	22.12	0.5
	DC-HSDPA-Subtest 4	22.25	22.18	22.16	0.5

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		1 312	1 412	1 513	
		1 712.4 MHz	1 732.4 MHz	1 752.6 MHz	
WCDMA IV	RMC	24.64	24.76	24.63	-
	HSDPA-Subtest 1	23.67	23.77	23.63	0
	HSDPA-Subtest 2	22.99	23.06	22.89	0
	HSDPA-Subtest 3	22.38	22.69	22.57	0.5
	HSDPA-Subtest 4	22.34	22.36	22.60	0.5
	HSUPA-Subtest 1	22.62	22.64	22.03	0
	HSUPA-Subtest 2	20.24	20.21	20.04	2
	HSUPA-Subtest 3	22.57	22.63	22.45	1
	HSUPA-Subtest 4	20.50	20.52	20.02	2
	HSUPA-Subtest 5	23.62	23.73	23.59	0
	DC-HSDPA-Subtest 1	23.70	23.73	23.57	0
	DC-HSDPA-Subtest 2	23.28	23.25	23.06	0
	DC-HSDPA-Subtest 3	22.26	22.22	22.03	0.5
	DC-HSDPA-Subtest 4	22.73	22.68	22.51	0.5

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		4 132	4 183	4 233	
		826.4 MHz	836.6 MHz	846.6 MHz	
WCDMA V	RMC	24.31	24.20	24.35	-
	HSDPA-Subtest 1	23.37	23.28	22.99	0
	HSDPA-Subtest 2	22.61	22.48	22.33	0
	HSDPA-Subtest 3	21.96	21.83	21.53	0.5
	HSDPA-Subtest 4	21.73	21.36	21.05	0.5
	HSUPA-Subtest 1	22.30	22.22	22.09	0
	HSUPA-Subtest 2	20.40	20.27	20.14	2
	HSUPA-Subtest 3	21.34	21.26	21.20	1
	HSUPA-Subtest 4	20.39	20.25	20.11	2
	HSUPA-Subtest 5	23.38	23.21	22.97	0
	DC-HSDPA-Subtest 1	23.44	23.21	23.12	0
	DC-HSDPA-Subtest 2	22.94	22.72	22.64	0
	DC-HSDPA-Subtest 3	21.40	21.16	21.06	0.5
	DC-HSDPA-Subtest 4	21.94	21.70	21.59	0.5

10.2 WCDMA Average Conducted Output Power (Back-off_Grip Sensor)

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		9 262	9 400	9 538	
		1 852.4 MHz	1 880.0 MHz	1 907.6 MHz	
WCDMA II	RMC	14.76	14.27	14.43	-
	HSDPA-Subtest 1	14.34	14.12	13.98	0
	HSDPA-Subtest 2	14.09	14.03	13.87	0
	HSDPA-Subtest 3	14.20	13.80	13.65	0
	HSDPA-Subtest 4	14.04	13.99	13.67	0
	HSUPA-Subtest 1	13.27	13.04	13.06	0
	HSUPA-Subtest 2	13.27	13.06	13.01	0
	HSUPA-Subtest 3	13.27	13.07	13.01	0
	HSUPA-Subtest 4	13.30	13.08	13.04	0
	HSUPA-Subtest 5	14.25	14.03	13.91	0
	DC-HSDPA-Subtest 1	14.30	13.94	13.99	0
	DC-HSDPA-Subtest 2	14.30	13.96	13.99	0
	DC-HSDPA-Subtest 3	14.33	13.95	14.03	0
	DC-HSDPA-Subtest 4	14.29	14.01	14.01	0

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		1 312	1 412	1 513	
		1 712.4 MHz	1 732.4 MHz	1 752.6 MHz	
WCDMA IV	RMC	14.51	14.54	14.39	-
	HSDPA-Subtest 1	14.42	14.53	14.35	0
	HSDPA-Subtest 2	14.38	14.42	14.27	0
	HSDPA-Subtest 3	14.32	14.21	14.03	0
	HSDPA-Subtest 4	14.35	14.20	14.21	0
	HSUPA-Subtest 1	13.54	13.55	13.37	0
	HSUPA-Subtest 2	13.54	13.57	13.42	0
	HSUPA-Subtest 3	13.53	13.58	13.41	0
	HSUPA-Subtest 4	13.53	13.54	13.42	0
	HSUPA-Subtest 5	14.45	14.50	14.37	0
	DC-HSDPA-Subtest 1	14.44	14.45	14.25	0
	DC-HSDPA-Subtest 2	14.49	14.45	14.25	0
	DC-HSDPA-Subtest 3	14.49	14.41	14.26	0
	DC-HSDPA-Subtest 4	14.48	14.48	14.29	0

Band	Mode	Average Conducted Power (dBm)			MPR [dB]
		Channel			
		4 132	4 183	4 233	
		826.4 MHz	836.6 MHz	846.6 MHz	
WCDMA V	RMC	17.78	17.63	17.51	-
	HSDPA-Subtest 1	17.74	17.54	17.42	0
	HSDPA-Subtest 2	17.48	17.29	17.20	0
	HSDPA-Subtest 3	17.45	17.26	17.15	0
	HSDPA-Subtest 4	17.47	17.25	17.33	0
	HSUPA-Subtest 1	16.66	16.42	16.30	0
	HSUPA-Subtest 2	16.69	16.47	16.37	0
	HSUPA-Subtest 3	16.70	16.49	16.38	0
	HSUPA-Subtest 4	16.69	16.44	16.36	0
	HSUPA-Subtest 5	17.75	17.55	17.43	0
	DC-HSDPA-Subtest 1	17.77	17.56	17.43	0
	DC-HSDPA-Subtest 2	17.66	17.59	17.45	0
	DC-HSDPA-Subtest 3	17.69	17.62	17.47	0
	DC-HSDPA-Subtest 4	17.69	17.56	17.49	0

10.3 LTE Average Conducted Output Power

10.3.1 LTE Band 2 (Sub1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 700	18 900	19 100	
				1 860.0 MHz	1 880.0 MHz	1 900.0 MHz	
20 MHz	QPSK	1	0	23.53	23.56	23.42	0
		1	49	23.40	23.47	23.39	0
		1	99	23.42	23.38	23.35	0
		50	0	22.70	22.71	22.67	1
		50	24	22.60	22.63	22.58	1
		50	50	22.68	22.66	22.53	1
		100	0	22.64	22.68	22.61	1
	16QAM	1	0	22.72	22.76	22.67	1
		1	49	22.66	22.72	22.56	1
		1	99	22.72	22.54	22.58	1
		50	0	21.70	21.67	21.58	2
		50	24	21.63	21.58	21.54	2
		50	50	21.57	21.54	21.49	2
		100	0	21.62	21.53	21.54	2
	64QAM	1	0	21.66	21.67	21.56	2
		1	49	21.71	21.59	21.51	2
		1	99	21.58	21.37	21.47	2
		50	0	20.74	20.66	20.57	3
		50	24	20.64	20.64	20.55	3
		50	50	20.59	20.56	20.50	3
		100	0	20.62	20.57	20.47	3
	256QAM	1	0	18.72	18.66	18.65	5
		1	49	18.85	18.57	18.63	5
		1	99	18.67	18.42	18.51	5
		50	0	18.68	18.55	18.56	5
		50	24	18.64	18.56	18.49	5
		50	50	18.54	18.49	18.48	5
		100	0	18.63	18.60	18.52	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 675	18 900	19 125	
				1 857.5 MHz	1 880.0 MHz	1 902.5 MHz	
15 MHz	QPSK	1	0	23.47	23.57	23.39	0
		1	36	23.42	23.47	23.39	0
		1	74	23.36	23.33	23.29	0
		36	0	22.68	22.65	22.59	1
		36	18	22.52	22.62	22.53	1
		36	37	22.62	22.61	22.41	1
		75	0	22.59	22.63	22.54	1
	16QAM	1	0	22.76	22.80	22.68	1
		1	36	22.62	22.69	22.52	1
		1	74	22.76	22.57	22.61	1
		36	0	21.75	21.65	21.63	2
		36	18	21.58	21.54	21.53	2
		36	37	21.61	21.55	21.44	2
		75	0	21.60	21.55	21.58	2
	64QAM	1	0	21.71	21.74	21.58	2
		1	36	21.70	21.58	21.54	2
		1	74	21.58	21.43	21.47	2
		36	0	20.77	20.63	20.51	3
		36	18	20.55	20.59	20.48	3
		36	37	20.55	20.55	20.52	3
		75	0	20.63	20.54	20.50	3
	256QAM	1	0	18.71	18.66	18.57	5
		1	36	18.78	18.52	18.59	5
		1	74	18.82	18.55	18.62	5
		36	0	18.83	18.62	18.66	5
		36	18	18.63	18.61	18.51	5
		36	37	18.58	18.55	18.54	5
		75	0	18.62	18.62	18.53	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 650	18 900	19 150	
				1 855.0 MHz	1 880.0 MHz	1 905.0 MHz	
10 MHz	QPSK	1	0	23.56	23.58	23.46	0
		1	25	23.48	23.47	23.43	0
		1	49	23.69	23.66	23.65	0
		25	0	22.80	22.81	22.73	1
		25	12	22.69	22.74	22.69	1
		25	25	22.60	22.58	22.43	1
		50	0	22.75	22.84	22.83	1
	16QAM	1	0	22.67	22.77	22.67	1
		1	25	22.48	22.58	22.44	1
		1	49	22.84	22.62	22.71	1
		25	0	21.71	21.69	21.57	2
		25	12	21.74	21.66	21.61	2
		25	25	21.65	21.61	21.58	2
		50	0	21.87	21.74	21.80	2
	64QAM	1	0	21.72	21.72	21.61	2
		1	25	21.64	21.59	21.53	2
		1	49	21.94	21.71	21.84	2
		25	0	20.75	20.67	20.59	3
		25	12	20.59	20.63	20.53	3
		25	25	20.56	20.58	20.48	3
		50	0	20.78	20.69	20.63	3
	256QAM	1	0	18.64	18.63	18.62	5
		1	25	18.91	18.62	18.62	5
		1	49	18.86	18.59	18.64	5
		25	0	18.61	18.53	18.54	5
		25	12	18.60	18.54	18.43	5
		25	25	18.63	18.51	18.46	5
		50	0	18.52	18.52	18.39	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 625	18 900	19 175	
				1 852.5 MHz	1 880.0 MHz	1 907.5 MHz	
5 MHz	QPSK	1	0	23.47	23.51	23.35	0
		1	12	23.51	23.54	23.48	0
		1	24	23.63	23.57	23.48	0
		12	0	22.58	22.65	22.66	1
		12	7	22.57	22.57	22.52	1
		12	13	22.72	22.63	22.44	1
		25	0	22.64	22.73	22.70	1
	16QAM	1	0	22.60	22.67	22.63	1
		1	12	22.46	22.59	22.42	1
		1	24	22.86	22.72	22.70	1
		12	0	21.68	21.66	21.53	2
		12	7	21.62	21.59	21.52	2
		12	13	21.65	21.60	21.52	2
		25	0	21.76	21.65	21.70	2
	64QAM	1	0	21.72	21.71	21.67	2
		1	12	21.76	21.64	21.50	2
		1	24	21.79	21.58	21.65	2
		12	0	20.68	20.58	20.47	3
		12	7	20.63	20.57	20.49	3
		12	13	20.56	20.54	20.49	3
		25	0	20.76	20.64	20.49	3
	256QAM	1	0	18.77	18.70	18.64	5
		1	12	18.94	18.68	18.79	5
		1	24	18.94	18.69	18.80	5
		12	0	18.75	18.63	18.70	5
		12	7	18.57	18.50	18.44	5
		12	13	18.61	18.56	18.60	5
		25	0	18.56	18.55	18.47	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 615	18 900	19 185	
				1 851.5 MHz	1 880.0 MHz	1 908.5 MHz	
3 MHz	QPSK	1	0	23.53	23.56	23.42	0
		1	8	23.48	23.49	23.43	0
		1	14	23.53	23.54	23.47	0
		8	0	22.59	22.58	22.60	1
		8	4	22.60	22.60	22.52	1
		8	7	22.49	22.52	22.39	1
		15	0	22.65	22.65	22.56	1
	16QAM	1	0	22.60	22.72	22.62	1
		1	8	22.55	22.60	22.43	1
		1	14	22.70	22.52	22.60	1
		8	0	21.63	21.57	21.54	2
		8	4	21.73	21.61	21.51	2
		8	7	21.70	21.62	21.53	2
		15	0	21.67	21.62	21.62	2
	64QAM	1	0	21.57	21.58	21.45	2
		1	8	21.78	21.66	21.61	2
		1	14	21.90	21.63	21.74	2
		8	0	20.62	20.52	20.40	3
		8	4	20.51	20.57	20.47	3
		8	7	20.61	20.54	20.43	3
		15	0	20.65	20.61	20.45	3
	256QAM	1	0	18.68	18.66	18.67	5
		1	8	18.83	18.55	18.68	5
		1	14	18.84	18.52	18.67	5
		8	0	18.64	18.49	18.52	5
		8	4	18.51	18.44	18.39	5
		8	7	18.51	18.45	18.40	5
		15	0	18.46	18.44	18.30	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 607	18 900	19 193	
				1 850.7 MHz	1 880.0 MHz	1 909.3 MHz	
1.4 MHz	QPSK	1	0	23.42	23.47	23.29	0
		1	3	23.33	23.45	23.39	0
		1	5	23.63	23.55	23.58	0
		3	0	23.49	23.51	23.46	0
		3	1	23.60	23.59	23.58	0
		3	3	23.54	23.57	23.40	0
		6	0	22.56	22.60	22.55	1
	16QAM	1	0	22.57	22.63	22.52	1
		1	3	22.40	22.49	22.34	1
		1	5	22.79	22.60	22.67	1
		3	0	22.65	22.64	22.54	1
		3	1	22.66	22.66	22.60	1
		3	3	22.65	22.60	22.50	1
		6	0	21.75	21.67	21.65	2
	64QAM	1	0	21.58	21.59	21.45	2
		1	3	21.85	21.71	21.65	2
		1	5	21.86	21.67	21.79	2
		3	0	21.61	21.58	21.49	2
		3	1	21.53	21.54	21.45	2
		3	3	21.52	21.53	21.40	2
		6	0	20.58	20.53	20.43	3
	256QAM	1	0	18.62	18.61	18.61	5
		1	3	18.77	18.55	18.61	5
		1	5	18.86	18.62	18.72	5
		3	0	18.62	18.54	18.56	5
		3	1	18.65	18.57	18.55	5
		3	3	18.53	18.49	18.46	5
		6	0	18.57	18.52	18.40	5

10.3.2 LTE Band 5

Band width	Modulation	RB Size	RB offset	Maximum Average Power	
				20 525	MPR
				836.5 MHz	
10 MHz	QPSK	1	0	23.85	0
		1	25	23.66	0
		1	49	23.80	0
		25	0	22.94	1
		25	12	23.00	1
		25	25	22.95	1
		50	0	22.98	1
	16QAM	1	0	23.14	1
		1	25	23.04	1
		1	49	23.10	1
		25	0	21.94	2
		25	12	21.95	2
		25	25	21.93	2
		50	0	22.00	2
	64QAM	1	0	22.08	2
		1	25	22.01	2
		1	49	22.12	2
		25	0	20.92	3
		25	12	20.93	3
		25	25	20.91	3
		50	0	20.93	3
	256QAM	1	0	18.94	5
		1	25	18.88	5
		1	49	18.99	5
		25	0	18.93	5
		25	12	18.95	5
		25	25	18.92	5
		50	0	18.97	5

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 425	20 525	20 625	
				826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	23.85	23.73	23.64	0
		1	12	23.97	23.77	23.66	0
		1	24	23.85	23.76	23.62	0
		12	0	22.99	22.91	22.74	1
		12	7	23.00	22.88	22.69	1
		12	13	22.96	22.87	22.69	1
		25	0	23.01	22.99	22.81	1
	16QAM	1	0	23.33	23.19	22.85	1
		1	12	23.00	22.99	22.80	1
		1	24	23.02	23.00	22.74	1
		12	0	22.08	21.97	21.85	2
		12	7	22.05	21.94	21.75	2
		12	13	22.04	21.87	21.74	2
		25	0	22.02	21.93	21.80	2
	64QAM	1	0	22.24	21.99	21.99	2
		1	12	22.08	21.73	21.81	2
		1	24	22.19	22.04	21.83	2
		12	0	21.07	20.94	20.76	3
		12	7	21.08	20.90	20.75	3
		12	13	21.05	20.95	20.72	3
		25	0	21.01	20.89	20.76	3
	256QAM	1	0	18.97	18.91	18.74	5
		1	12	19.12	18.91	18.78	5
		1	24	19.05	18.86	18.80	5
		12	0	19.05	18.85	18.77	5
		12	7	18.94	18.90	18.70	5
		12	13	19.05	18.97	18.74	5
		25	0	19.00	18.83	18.71	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 415	20 525	20 635	
				825.5 MHz	836.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	23.85	23.71	23.59	0
		1	8	23.87	23.70	23.51	0
		1	14	23.97	23.71	23.57	0
		8	0	22.97	22.91	22.69	1
		8	4	22.92	22.83	22.60	1
		8	7	23.00	22.90	22.69	1
		15	0	23.06	22.94	22.74	1
	16QAM	1	0	23.21	23.02	22.85	1
		1	8	23.16	22.96	22.73	1
		1	14	23.16	22.93	22.80	1
		8	0	22.12	21.91	21.73	2
		8	4	22.06	21.92	21.69	2
		8	7	22.05	21.93	21.78	2
		15	0	22.06	21.89	21.86	2
	64QAM	1	0	22.24	22.15	21.76	2
		1	8	22.05	22.04	21.75	2
		1	14	22.26	22.07	21.84	2
		8	0	21.11	20.96	20.76	3
		8	4	21.04	20.95	20.73	3
		8	7	21.11	20.90	20.77	3
		15	0	21.11	20.93	20.73	3
	256QAM	1	0	19.01	18.96	18.80	5
		1	8	19.02	18.85	18.82	5
		1	14	19.03	18.84	18.80	5
		8	0	19.06	18.88	18.79	5
		8	4	19.07	19.00	18.69	5
		8	7	19.02	18.90	18.73	5
		15	0	18.99	18.82	18.73	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 407	20 525	20 643	
				824.7 MHz	836.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	23.87	23.74	23.62	0
		1	3	23.81	23.65	23.51	0
		1	5	23.94	23.74	23.61	0
		3	0	23.89	23.79	23.58	0
		3	1	23.83	23.66	23.52	0
		3	3	23.89	23.72	23.56	0
		6	0	22.91	22.84	22.60	1
	16QAM	1	0	23.26	23.00	22.86	1
		1	3	22.97	22.98	22.64	1
		1	5	23.25	22.99	22.77	1
		3	0	22.94	22.91	22.72	1
		3	1	22.92	22.87	22.63	1
		3	3	22.98	22.91	22.62	1
		6	0	22.00	21.89	21.74	2
	64QAM	1	0	21.99	22.00	21.89	2
		1	3	21.89	21.96	21.81	2
		1	5	21.95	22.11	21.75	2
		3	0	21.94	21.78	21.68	2
		3	1	21.88	21.98	21.66	2
		3	3	21.96	21.81	21.67	2
		6	0	20.98	20.81	20.66	3
	256QAM	1	0	19.11	18.97	18.73	5
		1	3	19.01	18.80	18.72	5
		1	5	18.95	18.90	18.83	5
		3	0	19.02	18.78	18.70	5
		3	1	19.08	18.80	18.66	5
		3	3	18.98	18.91	18.66	5
		6	0	18.99	18.90	18.69	5

10.3.3 LTE Band 7 (Main2)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 850	21 100	21 350	
				2 510.0 MHz	2 535.0 MHz	2 560.0 MHz	
20 MHz	QPSK	1	0	23.48	23.34	23.41	0
		1	49	23.41	23.26	23.32	0
		1	99	23.43	23.21	23.26	0
		50	0	22.45	22.42	22.37	1
		50	24	22.35	22.41	22.40	1
		50	50	22.41	22.35	22.34	1
		100	0	22.43	22.40	22.38	1
	16QAM	1	0	22.41	22.44	22.44	1
		1	49	22.40	22.40	22.40	1
		1	99	22.42	22.40	22.44	1
		50	0	21.34	21.45	21.46	2
		50	24	21.33	21.41	21.40	2
		50	50	21.24	21.35	21.45	2
		100	0	21.29	21.36	21.46	2
	64QAM	1	0	21.46	21.41	21.45	2
		1	49	21.26	21.39	21.39	2
		1	99	21.30	21.43	21.41	2
		50	0	20.33	20.45	20.29	3
		50	24	20.31	20.38	20.45	3
		50	50	20.34	20.36	20.44	3
		100	0	20.35	20.33	20.40	3
	256QAM	1	0	18.37	18.28	18.33	5
		1	49	18.38	18.45	18.43	5
		1	99	18.43	18.33	18.43	5
		50	0	18.43	18.30	18.37	5
		50	24	18.42	18.28	18.32	5
		50	50	18.41	18.22	18.34	5
		100	0	18.42	18.32	18.34	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 825	21 100	21 375	
				2 507.5 MHz	2 535.0 MHz	2 562.5 MHz	
15 MHz	QPSK	1	0	23.35	23.27	23.31	0
		1	36	23.36	23.21	23.24	0
		1	74	23.47	23.30	23.35	0
		36	0	22.44	22.40	22.48	1
		36	18	22.46	22.42	22.41	1
		36	37	22.42	22.43	22.46	1
		75	0	22.45	22.43	22.45	1
	16QAM	1	0	22.38	22.42	22.42	1
		1	36	22.41	22.47	22.47	1
		1	74	22.47	22.40	22.33	1
		36	0	21.39	21.46	21.46	2
		36	18	21.40	21.39	21.34	2
		36	37	21.43	21.39	21.39	2
		75	0	21.47	21.39	21.42	2
	64QAM	1	0	21.40	21.36	21.35	2
		1	36	21.44	21.43	21.44	2
		1	74	21.41	21.45	21.46	2
		36	0	20.44	20.42	20.41	3
		36	18	20.43	20.40	20.42	3
		36	37	20.45	20.41	20.42	3
		75	0	20.40	20.32	20.42	3
	256QAM	1	0	18.38	18.42	18.33	5
		1	36	18.39	18.31	18.40	5
		1	74	18.45	18.36	18.41	5
		36	0	18.38	18.39	18.39	5
		36	18	18.42	18.33	18.37	5
		36	37	18.38	18.27	18.36	5
		75	0	18.34	18.31	18.30	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 800	21 100	21 400	
				2 505.0 MHz	2 535.0 MHz	2 565.0 MHz	
10 MHz	QPSK	1	0	23.45	23.25	23.08	0
		1	25	23.44	23.18	23.10	0
		1	49	23.43	23.27	23.19	0
		25	0	22.48	22.42	22.40	1
		25	12	22.45	22.41	22.38	1
		25	25	22.33	22.32	22.39	1
		50	0	22.46	22.44	22.36	1
	16QAM	1	0	22.38	22.43	22.42	1
		1	25	22.42	22.49	22.37	1
		1	49	22.39	22.39	22.39	1
		25	0	21.47	21.44	21.43	2
		25	12	21.46	21.38	21.39	2
		25	25	21.42	21.39	21.39	2
		50	0	21.35	21.45	21.41	2
	64QAM	1	0	21.41	21.40	21.44	2
		1	25	21.46	21.40	21.38	2
		1	49	21.40	21.49	21.49	2
		25	0	20.46	20.35	20.39	3
		25	12	20.44	20.38	20.36	3
		25	25	20.42	20.33	20.28	3
		50	0	20.34	20.39	20.40	3
	256QAM	1	0	18.42	18.36	18.47	5
		1	25	18.40	18.39	18.31	5
		1	49	18.48	18.47	18.37	5
		25	0	18.46	18.31	18.33	5
		25	12	18.43	18.31	18.33	5
		25	25	18.40	18.33	18.31	5
		50	0	18.38	18.29	18.27	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 775	21 100	21 425	
				2 502.5 MHz	2 535.0 MHz	2 567.5 MHz	
5 MHz	QPSK	1	0	23.45	23.18	23.16	0
		1	12	23.42	23.23	23.09	0
		1	24	23.43	23.28	23.16	0
		12	0	22.48	22.31	22.31	1
		12	7	22.43	22.39	22.31	1
		12	13	22.44	22.34	22.23	1
		25	0	22.47	22.35	22.34	1
	16QAM	1	0	22.40	22.39	22.36	1
		1	12	22.43	22.48	22.39	1
		1	24	22.42	22.43	22.42	1
		12	0	21.47	21.44	21.38	2
		12	7	21.42	21.45	21.36	2
		12	13	21.42	21.46	21.28	2
		25	0	21.41	21.27	21.26	2
	64QAM	1	0	21.41	21.36	21.40	2
		1	12	21.36	21.39	21.38	2
		1	24	21.41	21.44	21.33	2
		12	0	20.47	20.37	20.38	3
		12	7	20.45	20.37	20.35	3
		12	13	20.41	20.36	20.34	3
		25	0	20.48	20.33	20.32	3
	256QAM	1	0	18.42	18.41	18.45	5
		1	12	18.43	18.42	18.37	5
		1	24	18.46	18.39	18.18	5
		12	0	18.46	18.35	18.22	5
		12	7	18.45	18.34	18.22	5
		12	13	18.46	18.33	18.15	5
		25	0	18.40	18.26	18.25	5

10.3.4 LTE Band 7 (sub1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 850	21 100	21 350	
				2 510.0 MHz	2 535.0 MHz	2 560.0 MHz	
20 MHz	QPSK	1	0	21.86	21.68	22.15	0
		1	49	21.89	21.64	22.12	0
		1	99	21.67	21.72	21.92	0
		50	0	20.85	20.92	21.24	1
		50	24	20.81	20.85	21.16	1
		50	50	20.75	20.81	20.94	1
		100	0	20.71	20.83	21.01	1
	16QAM	1	0	20.84	20.85	21.04	1
		1	49	20.67	20.84	20.94	1
		1	99	20.60	20.66	20.83	1
		50	0	19.86	19.80	20.16	2
		50	24	19.82	19.82	20.05	2
		50	50	19.78	19.79	20.08	2
		100	0	19.78	19.84	20.06	2
	64QAM	1	0	19.94	19.87	20.24	2
		1	49	19.74	19.83	20.06	2
		1	99	19.80	19.79	19.92	2
		50	0	18.90	18.91	19.15	3
		50	24	18.84	18.89	19.13	3
		50	50	18.78	18.85	19.06	3
		100	0	18.82	18.84	19.03	3
	256QAM	1	0	16.82	16.86	17.19	5
		1	49	16.76	16.78	17.09	5
		1	99	16.67	16.66	16.86	5
		50	0	16.01	16.04	16.29	5
		50	24	16.05	16.02	16.35	5
		50	50	16.01	16.03	16.29	5
		100	0	16.08	16.14	16.36	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 825	21 100	21 375	
				2 507.5 MHz	2 535.0 MHz	2 562.5 MHz	
15 MHz	QPSK	1	0	21.69	21.58	21.99	0
		1	36	21.69	21.60	21.94	0
		1	74	21.68	21.70	21.91	0
		36	0	20.77	20.86	21.14	1
		36	18	20.68	20.76	21.08	1
		36	37	20.92	20.93	21.07	1
		75	0	20.81	20.97	21.11	1
	16QAM	1	0	20.96	20.94	21.13	1
		1	36	20.65	20.84	20.93	1
		1	74	20.65	20.72	20.91	1
		36	0	19.79	19.73	20.09	2
		36	18	19.87	19.82	20.10	2
		36	37	19.75	19.73	20.04	2
		75	0	19.82	19.89	20.11	2
	64QAM	1	0	19.86	19.82	20.22	2
		1	36	19.71	19.85	20.05	2
		1	74	19.87	19.79	19.95	2
		36	0	18.91	18.93	19.15	3
		36	18	18.79	18.88	19.09	3
		36	37	18.71	18.74	19.00	3
		75	0	18.80	18.85	19.02	3
	256QAM	1	0	16.52	16.60	16.94	5
		1	36	16.57	16.55	16.86	5
		1	74	16.74	16.71	16.91	5
		36	0	16.01	16.14	16.28	5
		36	18	16.07	16.15	16.25	5
		36	37	16.01	16.13	16.21	5
		75	0	16.05	16.10	16.24	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 800	21 100	21 400	
				2 505.0 MHz	2 535.0 MHz	2 565.0 MHz	
10 MHz	QPSK	1	0	21.69	21.53	21.86	0
		1	25	21.70	21.56	21.87	0
		1	49	21.65	21.64	21.79	0
		25	0	20.52	20.55	21.00	1
		25	12	20.57	20.59	20.98	1
		25	25	20.76	20.70	20.99	1
		50	0	20.57	20.70	20.97	1
	16QAM	1	0	20.62	20.65	20.94	1
		1	25	20.60	20.73	20.93	1
		1	49	20.50	20.55	20.84	1
		25	0	19.56	19.53	19.98	2
		25	12	19.54	19.56	19.92	2
		25	25	19.51	19.55	19.91	2
		50	0	19.55	19.64	19.94	2
	64QAM	1	0	19.62	19.58	20.06	2
		1	25	19.54	19.55	19.87	2
		1	49	19.74	19.75	19.97	2
		25	0	18.69	18.66	19.02	3
		25	12	18.53	18.60	18.90	3
		25	25	18.55	18.54	18.81	3
		50	0	18.63	18.69	18.94	3
	256QAM	1	0	16.59	16.70	17.11	5
		1	25	16.59	16.53	16.92	5
		1	49	16.68	16.60	16.94	5
		25	0	16.15	16.11	16.28	5
		25	12	16.04	16.06	16.24	5
		25	25	16.09	16.01	16.19	5
		50	0	16.02	16.14	16.20	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 775	21 100	21 425	
				2 502.5 MHz	2 535.0 MHz	2 567.5 MHz	
5 MHz	QPSK	1	0	21.93	21.79	22.26	0
		1	12	21.97	21.66	22.14	0
		1	24	22.05	22.14	22.32	0
		12	0	20.92	21.02	21.36	1
		12	7	21.02	21.02	21.33	1
		12	13	21.28	21.33	21.44	1
		25	0	21.09	21.26	21.39	1
	16QAM	1	0	21.03	21.02	21.22	1
		1	12	21.07	21.23	21.36	1
		1	24	20.99	21.04	21.22	1
		12	0	20.09	19.97	20.35	2
		12	7	20.10	20.12	20.33	2
		12	13	20.03	20.08	20.38	2
		25	0	20.14	20.16	20.42	2
	64QAM	1	0	19.99	19.93	20.32	2
		1	12	20.06	20.17	20.37	2
		1	24	20.22	20.25	20.34	2
		12	0	19.06	19.09	19.31	3
		12	7	18.94	18.98	19.27	3
		12	13	19.06	19.11	19.33	3
		25	0	19.10	19.11	19.31	3
	256QAM	1	0	17.00	17.02	17.31	5
		1	12	16.93	16.93	17.28	5
		1	24	17.16	17.13	17.30	5
		12	0	16.03	16.09	16.32	5
		12	7	16.09	16.05	16.22	5
		12	13	16.08	16.10	16.37	5
		25	0	16.01	16.02	16.28	5

10.3.5 LTE Band 12

Band width	Modulation	RB Size	RB offset	Maximum Average Power		
				23 095		MPR
				707.5 MHz		
10 MHz	QPSK	1	0	23.95	0	
		1	25	23.76	0	
		1	49	23.75	0	
		25	0	23.06	1	
		25	12	22.95	1	
		25	25	22.98	1	
		50	0	23.02	1	
	16QAM	1	0	23.19	1	
		1	25	23.03	1	
		1	49	23.02	1	
		25	0	22.02	2	
		25	12	21.96	2	
		25	25	21.94	2	
		50	0	21.93	2	
	64QAM	1	0	22.23	2	
		1	25	22.01	2	
		1	49	22.06	2	
		25	0	21.00	3	
		25	12	20.94	3	
		25	25	20.90	3	
		50	0	20.92	3	
	256QAM	1	0	19.03	5	
		1	25	18.92	5	
		1	49	18.90	5	
		25	0	18.98	5	
		25	12	18.96	5	
		25	25	18.90	5	
		50	0	18.90	5	

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 035	23 095	23 155	
				701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	QPSK	1	0	23.84	23.90	23.90	0
		1	12	23.86	23.90	23.84	0
		1	24	23.75	23.89	23.79	0
		12	0	22.92	22.95	22.86	1
		12	7	22.93	22.92	22.91	1
		12	13	22.91	22.88	22.91	1
		25	0	23.02	23.00	22.96	1
	16QAM	1	0	23.13	23.09	23.01	1
		1	12	22.91	22.92	22.98	1
		1	24	23.06	23.00	23.01	1
		12	0	22.02	22.00	21.96	2
		12	7	21.97	21.94	21.86	2
		12	13	21.88	21.91	21.85	2
		25	0	21.92	21.98	21.89	2
	64QAM	1	0	22.07	22.02	22.08	2
		1	12	22.07	21.99	22.05	2
		1	24	21.98	21.96	22.01	2
		12	0	20.94	20.92	20.95	3
		12	7	20.92	20.95	20.86	3
		12	13	20.87	20.84	20.86	3
		25	0	20.87	20.95	20.81	3
	256QAM	1	0	18.93	19.10	18.89	5
		1	12	18.98	19.06	18.91	5
		1	24	18.90	18.88	18.95	5
		12	0	18.87	18.91	18.84	5
		12	7	18.80	18.82	18.87	5
		12	13	18.82	18.83	18.88	5
		25	0	18.95	18.87	18.88	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 025	23 095	23 165	
				700.5 MHz	707.5 MHz	714.5 MHz	
3 MHz	QPSK	1	0	23.82	23.82	23.86	0
		1	8	23.71	23.71	23.73	0
		1	14	23.73	23.77	23.80	0
		8	0	22.89	22.92	22.91	1
		8	4	22.80	22.96	22.90	1
		8	7	22.92	22.92	22.91	1
		15	0	22.93	22.94	22.91	1
	16QAM	1	0	23.03	23.24	23.16	1
		1	8	22.94	23.08	23.02	1
		1	14	22.91	23.16	23.02	1
		8	0	21.83	21.93	21.93	2
		8	4	21.83	21.91	21.91	2
		8	7	21.88	21.98	21.94	2
		15	0	21.90	21.88	21.89	2
	64QAM	1	0	21.99	21.99	22.04	2
		1	8	22.01	21.98	21.82	2
		1	14	22.01	21.98	21.95	2
		8	0	20.91	20.91	20.85	3
		8	4	20.90	20.90	20.85	3
		8	7	20.90	21.00	20.84	3
		15	0	20.92	20.90	20.83	3
	256QAM	1	0	18.89	18.96	18.96	5
		1	8	18.72	18.91	18.84	5
		1	14	18.99	18.99	18.84	5
		8	0	18.85	18.93	18.83	5
		8	4	18.89	18.84	18.81	5
		8	7	18.86	18.82	18.81	5
		15	0	18.80	18.84	18.78	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 017	23 095	23 173	
				699.7 MHz	707.5 MHz	715.3 MHz	
1.4 MHz	QPSK	1	0	23.79	23.84	23.75	0
		1	3	23.71	23.70	23.69	0
		1	5	23.82	23.82	23.75	0
		3	0	23.86	23.88	23.83	0
		3	1	23.74	23.73	23.69	0
		3	3	23.78	23.77	23.71	0
		6	0	22.85	22.89	22.82	1
	16QAM	1	0	23.06	23.03	23.08	1
		1	3	22.89	22.79	22.90	1
		1	5	23.01	23.07	23.09	1
		3	0	22.92	22.86	22.77	1
		3	1	22.91	23.07	22.80	1
		3	3	22.97	22.96	22.85	1
		6	0	21.95	21.85	21.78	2
	64QAM	1	0	21.96	22.02	22.03	2
		1	3	21.97	21.97	21.78	2
		1	5	22.11	21.99	21.92	2
		3	0	21.92	21.90	21.76	2
		3	1	21.87	21.87	21.85	2
		3	3	21.88	21.84	21.88	2
		6	0	20.84	20.82	20.80	3
	256QAM	1	0	19.00	18.96	18.90	5
		1	3	18.78	18.86	18.79	5
		1	5	18.87	18.95	18.98	5
		3	0	18.78	18.79	18.86	5
		3	1	18.82	18.82	18.84	5
		3	3	18.77	18.75	18.77	5
		6	0	18.86	18.87	18.75	5

10.3.6 LTE Band 13

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 230		
				782.0 MHz		
10 MHz	QPSK	1	0	24.80	0	
		1	25	24.53	0	
		1	49	24.68	0	
		25	0	23.97	1	
		25	12	23.89	1	
		25	25	23.90	1	
		50	0	23.96	1	
	16QAM	1	0	24.00	1	
		1	25	23.88	1	
		1	49	24.01	1	
		25	0	22.93	2	
		25	12	22.91	2	
		25	25	22.87	2	
		50	0	22.92	2	
	64QAM	1	0	22.93	2	
		1	25	22.86	2	
		1	49	22.83	2	
		25	0	21.88	3	
		25	12	21.87	3	
		25	25	21.78	3	
		50	0	21.95	3	
	256QAM	1	0	19.97	5	
		1	25	19.78	5	
		1	49	19.90	5	
		25	0	19.85	5	
		25	12	19.85	5	
		25	25	19.84	5	
		50	0	19.83	5	

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 230		
				782.0 MHz		
5 MHz	QPSK	1	0	24.79	0	
		1	12	24.84	0	
		1	24	24.78	0	
		12	0	23.87	1	
		12	7	23.86	1	
		12	13	23.85	1	
		25	0	23.94	1	
	16QAM	1	0	23.96	1	
		1	12	23.98	1	
		1	24	23.86	1	
		12	0	22.87	2	
		12	7	22.86	2	
		12	13	22.83	2	
		25	0	22.98	2	
	64QAM	1	0	23.13	2	
		1	12	23.05	2	
		1	24	22.98	2	
		12	0	21.86	3	
		12	7	21.80	3	
		12	13	21.87	3	
		25	0	21.83	3	
	256QAM	1	0	20.02	5	
		1	12	19.95	5	
		1	24	19.84	5	
		12	0	19.85	5	
		12	7	19.88	5	
		12	13	19.79	5	
		25	0	19.87	5	

5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

10.3.7 LTE Band 14

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)	
				23 330	MPR
				793.0 MHz	
10 MHz	QPSK	1	0	24.55	0
		1	25	24.32	0
		1	49	24.46	0
		25	0	23.66	1
		25	12	23.62	1
		25	25	23.57	1
		50	0	23.64	1
	16QAM	1	0	23.72	1
		1	25	23.73	1
		1	49	23.67	1
		25	0	22.68	2
		25	12	22.63	2
		25	25	22.54	2
		50	0	22.66	2
	64QAM	1	0	22.78	2
		1	25	22.62	2
		1	49	22.69	2
		25	0	21.62	3
		25	12	21.66	3
		25	25	21.59	3
		50	0	21.67	3
	256QAM	1	0	19.79	5
		1	25	19.66	5
		1	49	19.65	5
		25	0	19.63	5
		25	12	19.62	5
		25	25	19.55	5
		50	0	19.64	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 330		
				793.0 MHz		
5 MHz	QPSK	1	0	24.48	0	
		1	12	24.59	0	
		1	24	24.50	0	
		12	0	23.62	1	
		12	7	23.63	1	
		12	13	23.58	1	
		25	0	23.63	1	
	16QAM	1	0	23.61	1	
		1	12	23.59	1	
		1	24	23.63	1	
		12	0	22.60	2	
		12	7	22.66	2	
		12	13	22.54	2	
		25	0	22.58	2	
	64QAM	1	0	22.71	2	
		1	12	22.65	2	
		1	24	22.68	2	
		12	0	21.68	3	
		12	7	21.57	3	
		12	13	21.59	3	
		25	0	21.61	3	
	256QAM	1	0	19.68	5	
		1	12	19.54	5	
		1	24	19.59	5	
		12	0	19.58	5	
		12	7	19.53	5	
		12	13	19.58	5	
		25	0	19.60	5	

10.3.8 LTE Band 25

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 140	26 365	26 590	
				1 860.0 MHz	1 882.5 MHz	1 905.0 MHz	
20 MHz	QPSK	1	0	24.77	24.61	24.78	0
		1	49	24.50	24.56	25.03	0
		1	99	24.76	24.48	24.79	0
		50	0	24.06	23.80	24.10	1
		50	24	24.05	23.77	24.00	1
		50	50	24.01	23.73	24.01	1
		100	0	23.99	23.73	24.00	1
	16QAM	1	0	23.90	24.32	24.34	1
		1	49	24.37	24.44	24.42	1
		1	99	23.80	24.05	24.33	1
		50	0	23.00	22.79	23.01	2
		50	24	23.07	22.80	23.02	2
		50	50	22.97	22.73	22.94	2
		100	0	23.02	22.80	23.04	2
	64QAM	1	0	22.92	22.95	22.99	2
		1	49	23.18	23.04	22.95	2
		1	99	23.09	22.74	22.85	2
		50	0	21.84	21.73	21.97	3
		50	24	21.94	21.72	21.94	3
		50	50	21.91	21.72	21.94	3
		100	0	21.81	21.68	21.85	3
	256QAM	1	0	19.80	19.98	19.90	5
		1	49	19.62	19.80	20.25	5
		1	99	19.99	19.62	19.84	5
		50	0	19.90	19.69	19.87	5
		50	24	19.81	19.66	19.81	5
		50	50	19.84	19.59	19.82	5
		100	0	19.81	19.68	19.83	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 115	26 365	26 615	
				1 857.5 MHz	1 882.5 MHz	1 907.5 MHz	
15 MHz	QPSK	1	0	24.78	24.60	24.75	0
		1	36	24.74	24.42	24.67	0
		1	74	24.83	24.44	24.69	0
		36	0	24.03	23.80	24.01	1
		36	18	23.97	23.73	24.06	1
		36	37	24.02	23.83	24.04	1
		75	0	24.02	23.79	24.05	1
	16QAM	1	0	24.06	24.14	24.41	1
		1	36	23.93	23.72	24.18	1
		1	74	24.04	23.77	24.18	1
		36	0	23.06	22.83	23.08	2
		36	18	22.96	22.75	23.02	2
		36	37	23.00	22.77	23.02	2
		75	0	23.02	22.78	23.00	2
	64QAM	1	0	23.01	22.91	23.16	2
		1	36	23.15	22.79	23.08	2
		1	74	23.29	22.83	23.07	2
		36	0	21.94	21.76	21.94	3
		36	18	21.92	21.71	21.99	3
		36	37	21.96	21.81	21.98	3
		75	0	21.86	21.63	21.99	3
	256QAM	1	0	20.12	19.52	20.05	5
		1	36	19.81	19.60	20.14	5
		1	74	20.16	19.66	20.06	5
		36	0	19.93	19.74	19.98	5
		36	18	19.90	19.65	19.91	5
		36	37	19.91	19.69	19.98	5
		75	0	19.78	19.71	19.88	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 090	26 365	26 640	
				1 855.0 MHz	1 882.5 MHz	1 910.0 MHz	
10 MHz	QPSK	1	0	24.92	24.55	24.81	0
		1	25	24.67	24.45	24.73	0
		1	49	24.73	24.52	24.73	0
		25	0	24.03	23.77	24.04	1
		25	12	23.95	23.76	24.03	1
		25	25	23.98	23.73	24.04	1
		50	0	24.01	23.70	24.03	1
	16QAM	1	0	24.07	23.91	24.08	1
		1	25	23.99	23.76	23.94	1
		1	49	24.14	23.81	23.97	1
		25	0	22.99	22.76	23.08	2
		25	12	22.95	22.74	22.99	2
		25	25	22.98	22.72	22.99	2
		50	0	23.02	22.76	23.09	2
	64QAM	1	0	23.01	22.95	23.17	2
		1	25	22.82	22.61	23.10	2
		1	49	23.14	22.82	23.04	2
		25	0	21.94	21.69	22.01	3
		25	12	21.84	21.63	22.05	3
		25	25	21.78	21.67	22.04	3
		50	0	21.94	21.62	22.04	3
	256QAM	1	0	20.02	19.85	20.09	5
		1	25	19.97	19.69	20.03	5
		1	49	20.11	19.74	19.87	5
		25	0	19.85	19.72	20.01	5
		25	12	19.77	19.65	19.97	5
		25	25	19.89	19.63	19.98	5
		50	0	19.86	19.62	19.98	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 065	26 365	26 665	
				1 852.5 MHz	1 882.5 MHz	1 912.5 MHz	
5 MHz	QPSK	1	0	24.79	24.45	24.83	0
		1	12	24.86	24.55	24.84	0
		1	24	24.76	24.50	24.64	0
		12	0	23.98	23.67	24.08	1
		12	7	23.94	23.71	24.10	1
		12	13	23.99	23.73	24.07	1
		25	0	23.97	23.66	24.11	1
	16QAM	1	0	24.13	23.90	24.12	1
		1	12	24.25	24.01	24.32	1
		1	24	24.17	23.85	24.13	1
		12	0	22.96	22.66	23.07	2
		12	7	22.94	22.65	23.02	2
		12	13	22.91	22.69	23.01	2
		25	0	23.01	22.65	23.13	2
	64QAM	1	0	23.07	22.89	23.01	2
		1	12	23.22	22.82	23.36	2
		1	24	23.15	22.97	23.19	2
		12	0	21.95	21.72	22.02	3
		12	7	21.99	21.67	22.09	3
		12	13	21.95	21.80	22.04	3
		25	0	21.94	21.65	22.04	3
	256QAM	1	0	20.04	19.84	20.22	5
		1	12	20.02	19.88	20.32	5
		1	24	19.94	19.84	19.86	5
		12	0	19.85	19.70	20.07	5
		12	7	19.76	19.66	20.05	5
		12	13	19.83	19.60	20.07	5
		25	0	19.87	19.65	20.05	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 055	26 365	26 675	
				1 851.5 MHz	1 882.5 MHz	1 913.5 MHz	
3 MHz	QPSK	1	0	24.78	24.61	24.92	0
		1	8	24.69	24.47	24.78	0
		1	14	24.76	24.54	24.66	0
		8	0	24.04	23.71	24.07	1
		8	4	23.99	23.62	24.03	1
		8	7	24.03	23.68	24.08	1
		15	0	23.96	23.66	24.07	1
	16QAM	1	0	24.24	23.86	24.09	1
		1	8	24.02	23.77	24.01	1
		1	14	24.18	23.86	24.02	1
		8	0	23.09	22.66	23.14	2
		8	4	23.07	22.64	23.13	2
		8	7	23.07	22.67	23.08	2
		15	0	22.97	22.71	23.11	2
	64QAM	1	0	22.92	22.86	23.20	2
		1	8	23.01	22.66	22.92	2
		1	14	22.95	22.68	23.03	2
		8	0	21.94	21.64	22.06	3
		8	4	22.01	21.61	22.06	3
		8	7	21.91	21.69	22.08	3
		15	0	21.98	21.61	22.07	3
	256QAM	1	0	20.15	19.79	20.02	5
		1	8	19.91	19.72	20.05	5
		1	14	20.09	19.83	20.06	5
		8	0	19.94	19.73	20.15	5
		8	4	19.85	19.59	19.99	5
		8	7	19.99	19.67	20.00	5
		15	0	19.89	19.58	19.96	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 047	26 365	26 683	
				1 850.7 MHz	1 882.5 MHz	1 914.3 MHz	
1.4 MHz	QPSK	1	0	24.78	24.51	24.86	0
		1	3	24.57	24.39	24.67	0
		1	5	24.79	24.50	24.91	0
		3	0	24.84	24.57	24.85	0
		3	1	24.76	24.50	24.83	0
		3	3	24.69	24.32	24.82	0
		6	0	23.96	23.69	24.05	1
	16QAM	1	0	23.88	23.68	23.90	1
		1	3	23.81	23.63	23.88	1
		1	5	24.04	23.77	23.95	1
		3	0	24.00	23.78	24.20	1
		3	1	24.05	23.68	24.05	1
		3	3	23.91	23.60	24.08	1
		6	0	23.03	22.71	23.18	2
	64QAM	1	0	23.03	22.81	22.99	2
		1	3	22.91	22.74	22.97	2
		1	5	22.94	22.77	23.08	2
		3	0	22.92	22.82	22.99	2
		3	1	22.99	22.65	23.08	2
		3	3	22.91	22.61	22.92	2
		6	0	21.94	21.69	21.96	3
	256QAM	1	0	20.10	19.63	20.12	5
		1	3	20.09	19.82	19.93	5
		1	5	20.01	19.62	20.02	5
		3	0	19.85	19.42	20.08	5
		3	1	19.96	19.64	20.06	5
		3	3	19.94	19.68	20.11	5
		6	0	19.83	19.54	19.96	5

10.3.9 LTE Band 26

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)	
				26 865	MPR
				831.5 MHz	
15 MHz	QPSK	1	0	23.72	0
		1	36	23.60	0
		1	74	23.64	0
		36	0	22.85	1
		36	18	22.78	1
		36	37	22.70	1
		75	0	22.83	1
	16QAM	1	0	22.98	1
		1	36	22.85	1
		1	74	22.80	1
		36	0	21.83	2
		36	18	21.74	2
		36	37	21.81	2
		75	0	21.73	2
	64QAM	1	0	22.09	2
		1	36	21.78	2
		1	74	21.82	2
		36	0	20.84	3
		36	18	20.86	3
		36	37	20.78	3
		75	0	20.85	3
	256QAM	1	0	19.05	5
		1	36	18.69	5
		1	74	18.86	5
		36	0	18.85	5
		36	18	18.76	5
		36	37	18.77	5
		75	0	18.79	5

15 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 740	26 865	26 990	
				819.0 MHz	831.5 MHz	844.0 MHz	
10 MHz	QPSK	1	0	23.81	23.75	23.52	0
		1	25	23.61	23.57	23.33	0
		1	49	23.71	23.58	23.41	0
		25	0	22.89	22.86	22.60	1
		25	12	22.86	22.87	22.60	1
		25	25	22.83	22.82	22.55	1
		50	0	22.91	22.86	22.65	1
	16QAM	1	0	22.95	22.98	22.74	1
		1	25	22.81	22.79	22.75	1
		1	49	22.86	22.78	22.72	1
		25	0	21.79	21.85	21.54	2
		25	12	21.78	21.78	21.54	2
		25	25	21.76	21.78	21.60	2
		50	0	21.90	21.89	21.62	2
	64QAM	1	0	21.94	21.93	21.66	2
		1	25	21.87	21.70	21.56	2
		1	49	21.79	21.90	21.55	2
		25	0	20.88	20.79	20.57	3
		25	12	20.83	20.79	20.57	3
		25	25	20.80	20.74	20.59	3
		50	0	20.87	20.80	20.54	3
	256QAM	1	0	18.94	18.79	18.67	5
		1	25	18.81	18.79	18.41	5
		1	49	18.83	18.85	18.62	5
		25	0	18.84	18.79	18.56	5
		25	12	18.83	18.76	18.51	5
		25	25	18.78	18.76	18.56	5
		50	0	18.79	18.70	18.54	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 715	26 865	27 015	
				816.5 MHz	831.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	23.64	23.67	23.46	0
		1	12	23.62	23.61	23.38	0
		1	24	23.62	23.57	23.40	0
		12	0	22.75	22.77	22.48	1
		12	7	22.84	22.73	22.46	1
		12	13	22.73	22.75	22.40	1
		25	0	22.80	22.73	22.52	1
	16QAM	1	0	22.89	22.84	22.68	1
		1	12	22.90	22.59	22.67	1
		1	24	22.79	22.73	22.59	1
		12	0	21.86	21.74	21.58	2
		12	7	21.85	21.79	21.51	2
		12	13	21.85	21.78	21.53	2
		25	0	21.73	21.77	21.55	2
	64QAM	1	0	22.05	21.96	21.69	2
		1	12	21.99	21.82	21.62	2
		1	24	21.78	21.74	21.69	2
		12	0	20.82	20.78	20.55	3
		12	7	20.80	20.80	20.50	3
		12	13	20.78	20.73	20.60	3
		25	0	20.74	20.78	20.55	3
	256QAM	1	0	18.85	18.89	18.63	5
		1	12	18.86	18.87	18.46	5
		1	24	18.78	18.86	18.64	5
		12	0	18.85	18.76	18.46	5
		12	7	18.79	18.75	18.50	5
		12	13	18.78	18.70	18.56	5
		25	0	18.80	18.75	18.51	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 705	26 865	27 025	
				815.5 MHz	831.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	23.67	23.63	23.42	0
		1	8	23.61	23.54	23.30	0
		1	14	23.59	23.59	23.36	0
		8	0	22.73	22.74	22.45	1
		8	4	22.75	22.70	22.40	1
		8	7	22.76	22.73	22.46	1
		15	0	22.82	22.78	22.55	1
	16QAM	1	0	22.99	22.94	22.72	1
		1	8	22.87	22.73	22.55	1
		1	14	23.02	22.91	22.67	1
		8	0	21.81	21.78	21.52	2
		8	4	21.80	21.77	21.53	2
		8	7	21.85	21.76	21.49	2
		15	0	21.82	21.73	21.56	2
	64QAM	1	0	21.86	21.80	21.60	2
		1	8	21.80	21.84	21.54	2
		1	14	21.96	21.93	21.47	2
		8	0	20.81	20.76	20.55	3
		8	4	20.78	20.80	20.44	3
		8	7	20.84	20.75	20.54	3
		15	0	20.87	20.75	20.55	3
	256QAM	1	0	19.01	18.80	18.57	5
		1	8	18.82	18.71	18.41	5
		1	14	18.79	18.70	18.51	5
		8	0	18.84	18.76	18.52	5
		8	4	18.83	18.71	18.49	5
		8	7	18.82	18.71	18.49	5
		15	0	18.79	18.72	18.45	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 697	26 865	27 033	
				814.7 MHz	831.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	23.66	23.51	23.37	0
		1	3	23.67	23.53	23.25	0
		1	5	23.71	23.56	23.39	0
		3	0	23.77	23.64	23.42	0
		3	1	23.61	23.55	23.24	0
		3	3	23.70	23.57	23.29	0
		6	0	22.80	22.71	22.41	1
	16QAM	1	0	23.01	22.81	22.64	1
		1	3	22.93	22.70	22.56	1
		1	5	22.91	22.87	22.61	1
		3	0	22.76	22.79	22.44	1
		3	1	22.87	22.77	22.36	1
		3	3	22.82	22.64	22.37	1
		6	0	21.86	21.78	21.45	2
	64QAM	1	0	21.90	21.83	21.55	2
		1	3	21.80	21.80	21.50	2
		1	5	22.07	21.85	21.57	2
		3	0	21.86	21.68	21.42	2
		3	1	21.94	21.73	21.47	2
		3	3	21.76	21.73	21.47	2
		6	0	20.85	20.66	20.45	3
	256QAM	1	0	18.85	18.81	18.45	5
		1	3	18.82	18.69	18.44	5
		1	5	18.84	18.79	18.47	5
		3	0	18.84	18.65	18.45	5
		3	1	18.84	18.79	18.46	5
		3	3	18.80	18.76	18.42	5
		6	0	18.82	18.65	18.44	5

10.3.10 LTE Band 30

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				27 710		
				2 310.0 MHz		
10 MHz	QPSK	1	0	22.86	0	
		1	25	22.69	0	
		1	49	22.84	0	
		25	0	21.94	1	
		25	12	21.86	1	
		25	25	21.89	1	
		50	0	21.93	1	
	16QAM	1	0	21.25	1	
		1	25	22.00	1	
		1	49	21.66	1	
		25	0	21.00	2	
		25	12	20.99	2	
		25	25	20.94	2	
		50	0	20.86	2	
	64QAM	1	0	20.77	2	
		1	25	20.75	2	
		1	49	20.65	2	
		25	0	19.97	3	
		25	12	19.93	3	
		25	25	19.89	3	
		50	0	19.88	3	
	256QAM	1	0	17.00	5	
		1	25	18.00	5	
		1	49	17.75	5	
		25	0	17.95	5	
		25	12	17.89	5	
		25	25	17.87	5	
		50	0	17.87	5	

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				27 710		
				2 310.0 MHz		
5 MHz	QPSK	1	0	22.82	0	
		1	12	22.51	0	
		1	24	22.81	0	
		12	0	21.98	1	
		12	7	21.96	1	
		12	13	21.97	1	
		25	0	21.96	1	
	16QAM	1	0	21.69	1	
		1	12	21.69	1	
		1	24	21.60	1	
		12	0	20.57	2	
		12	7	20.98	2	
		12	13	20.95	2	
		25	0	20.53	2	
	64QAM	1	0	20.64	2	
		1	12	20.76	2	
		1	24	20.60	2	
		12	0	19.97	3	
		12	7	19.52	3	
		12	13	19.54	3	
		25	0	19.94	3	
	256QAM	1	0	17.74	5	
		1	12	17.67	5	
		1	24	17.11	5	
		12	0	17.88	5	
		12	7	17.88	5	
		12	13	17.82	5	
		25	0	17.86	5	

10.3.11 LTE Band 40 (lower)

Band width	Modulation	RB Size	RB offset	Maximum Average Power		
				38 750		MPR
				2 310.0 MHz		
10 MHz	QPSK	1	0	23.20	0	
		1	25	23.15	0	
		1	49	23.12	0	
		25	0	22.18	1	
		25	12	22.17	1	
		25	25	22.14	1	
		50	0	22.21	1	
	16QAM	1	0	22.06	1	
		1	25	22.04	1	
		1	49	22.02	1	
		25	0	21.26	2	
		25	12	21.15	2	
		25	25	21.18	2	
		50	0	21.21	2	
	64QAM	1	0	21.37	2	
		1	25	21.28	2	
		1	49	21.35	2	
		25	0	20.19	3	
		25	12	20.15	3	
		25	25	20.14	3	
		50	0	20.15	3	
	256QAM	1	0	18.02	5	
		1	25	18.02	5	
		1	49	18.11	5	
		25	0	18.19	5	
		25	12	18.18	5	
		25	25	18.15	5	
		50	0	18.22	5	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				38 725	38 750	38 775	
				2 307.5 MHz	2 310.0 MHz	2 312.5 MHz	
5 MHz	QPSK	1	0	22.97	23.12	23.08	0
		1	12	23.10	23.12	23.22	0
		1	24	23.15	23.18	23.12	0
		12	0	22.30	22.25	22.20	1
		12	7	22.18	22.19	22.19	1
		12	13	22.28	22.24	22.18	1
		25	0	22.27	22.28	22.36	1
	16QAM	1	0	22.38	22.48	22.41	1
		1	12	22.07	22.14	22.17	1
		1	24	22.14	22.21	22.29	1
		12	0	21.26	21.21	21.24	2
		12	7	21.09	21.25	21.29	2
		12	13	21.17	21.32	21.14	2
		25	0	21.24	21.30	21.23	2
	64QAM	1	0	21.34	21.20	21.34	2
		1	12	21.28	21.24	21.33	2
		1	24	21.40	21.28	21.33	2
		12	0	20.22	20.28	20.27	3
		12	7	20.18	20.23	20.25	3
		12	13	20.24	20.18	20.20	3
		25	0	20.23	20.29	20.24	3
	256QAM	1	0	18.30	18.22	18.17	5
		1	12	18.19	18.12	18.18	5
		1	24	18.12	18.04	17.99	5
		12	0	18.43	18.37	18.40	5
		12	7	18.26	18.26	18.34	5
		12	13	18.24	18.22	18.34	5
		25	0	18.25	18.32	18.25	5

10.3.12 LTE Band 40 (upper)

Band width	Modulation	RB Size	RB offset	Maximum Average Power		
				39 200		MPR
				2 355.0 MHz		
10 MHz	QPSK	1	0	23.05	0	
		1	25	23.01	0	
		1	49	22.98	0	
		25	0	21.99	1	
		25	12	21.87	1	
		25	25	21.88	1	
		50	0	21.92	1	
	16QAM	1	0	22.15	1	
		1	25	22.14	1	
		1	49	22.11	1	
		25	0	20.98	2	
		25	12	20.94	2	
		25	25	20.92	2	
		50	0	20.89	2	
	64QAM	1	0	21.02	2	
		1	25	21.01	2	
		1	49	21.30	2	
		25	0	19.88	3	
		25	12	19.99	3	
		25	25	19.87	3	
		50	0	19.88	3	
	256QAM	1	0	17.41	5	
		1	25	17.40	5	
		1	49	17.39	5	
		25	0	17.82	5	
		25	12	17.88	5	
		25	25	17.96	5	
		50	0	17.94	5	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				39 175	39 200	39 225	
				2 352.5 MHz	2 355.0 MHz	2 357.5 MHz	
5 MHz	QPSK	1	0	22.85	22.88	22.75	0
		1	12	22.88	22.87	22.62	0
		1	24	22.82	22.90	22.59	0
		12	0	21.89	21.86	21.61	1
		12	7	21.88	21.87	21.60	1
		12	13	21.87	21.94	21.68	1
		25	0	21.93	21.96	21.59	1
	16QAM	1	0	21.83	21.82	21.67	1
		1	12	21.72	21.63	21.52	1
		1	24	21.67	21.72	21.48	1
		12	0	20.93	20.99	20.77	2
		12	7	20.91	20.92	20.68	2
		12	13	20.90	20.98	20.74	2
		25	0	20.89	20.89	20.67	2
	64QAM	1	0	21.06	21.04	20.95	2
		1	12	21.06	21.03	20.82	2
		1	24	20.96	21.03	20.90	2
		12	0	19.91	19.83	19.60	3
		12	7	19.89	19.93	19.76	3
		12	13	19.89	19.94	19.71	3
		25	0	19.91	19.82	19.75	3
	256QAM	1	0	17.72	17.60	17.59	5
		1	12	17.72	17.77	17.63	5
		1	24	17.66	17.61	17.54	5
		12	0	17.92	17.97	17.75	5
		12	7	17.89	17.88	17.57	5
		12	13	17.90	17.84	17.68	5
		25	0	17.91	17.91	17.68	5

10.3.13 LTE Band 41 (Power Class 2)

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
20 MHz	QPSK	1	0	26.79	26.89	26.90	27.29	26.91	0
		1	49	27.15	27.31	26.81	27.32	26.41	0
		1	99	27.18	27.30	26.82	27.21	26.04	0
		50	0	26.23	26.43	25.94	26.45	25.97	1
		50	24	26.33	26.44	25.93	26.36	25.69	1
		50	50	26.32	26.43	25.90	26.32	25.24	1
		100	0	26.37	26.42	25.92	26.43	25.62	1
	16QAM	1	0	25.81	26.20	26.13	26.28	25.93	1
		1	49	26.27	26.45	26.06	26.23	25.59	1
		1	99	26.31	26.43	26.01	26.16	24.65	1
		50	0	25.35	25.46	24.89	25.37	25.04	2
		50	24	25.32	25.42	24.87	25.33	25.00	2
		50	50	25.32	25.39	24.83	25.31	24.59	2
		100	0	25.36	25.43	24.93	25.37	25.03	2
	64QAM	1	0	25.37	25.31	25.07	25.46	25.10	2
		1	49	25.49	25.47	24.99	25.38	25.01	2
		1	99	25.43	25.45	24.95	25.30	24.16	2
		50	0	24.38	24.45	23.96	24.35	24.02	3
		50	24	24.35	24.43	23.93	24.32	23.98	3
		50	50	24.33	24.40	23.88	24.29	23.87	3
		100	0	24.30	24.42	23.89	24.29	23.96	3
	256QAM	1	0	22.14	22.38	21.92	21.96	21.62	5
		1	49	22.13	22.34	21.87	21.90	21.56	5
		1	99	22.07	22.24	21.78	21.79	21.42	5
		50	0	22.36	22.49	21.95	22.37	22.03	5
		50	24	22.36	22.45	21.92	22.32	22.00	5
		50	50	22.34	22.43	21.90	22.29	21.95	5
		100	0	22.26	22.35	22.21	22.24	21.91	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
15 MHz	QPSK	1	0	27.35	27.39	26.88	27.26	26.52	0
		1	36	27.04	27.30	26.81	27.19	26.46	0
		1	74	27.15	27.34	26.84	26.98	26.02	0
		36	0	26.30	26.48	25.93	26.36	25.83	1
		36	18	26.32	26.47	25.91	26.35	25.70	1
		36	37	26.29	26.42	25.90	26.33	25.27	1
		75	0	26.32	26.45	25.92	26.35	25.51	1
	16QAM	1	0	26.07	26.18	26.11	26.45	25.83	1
		1	36	26.02	26.07	26.03	26.36	25.83	1
		1	74	26.03	26.12	26.07	26.38	24.71	1
		36	0	25.29	25.42	24.92	25.32	24.98	2
		36	18	25.30	25.39	24.88	25.28	24.95	2
		36	37	25.26	25.36	24.86	25.27	24.57	2
		75	0	25.34	25.44	24.89	25.30	24.85	2
	64QAM	1	0	25.34	25.19	25.16	25.46	25.13	2
		1	36	25.42	25.15	25.06	25.38	25.03	2
		1	74	25.50	25.12	25.09	25.41	24.09	2
		36	0	24.28	24.44	23.89	24.30	23.97	3
		36	18	24.29	24.43	23.88	24.29	23.96	3
		36	37	24.25	24.41	23.84	24.26	23.84	3
		75	0	24.30	24.42	23.87	24.30	23.96	3
	256QAM	1	0	21.94	21.97	21.86	22.03	21.70	5
		1	36	21.83	21.85	21.74	21.91	21.57	5
		1	74	21.88	21.87	21.77	21.95	21.37	5
		36	0	22.27	22.38	21.84	22.26	21.93	5
		36	18	22.26	22.38	21.83	22.27	21.93	5
		36	37	22.24	22.35	21.80	22.23	21.89	5
		75	0	22.27	22.37	21.85	22.26	21.93	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39750	40185	40620	41055	41490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
10 MHz	QPSK	1	0	27.09	27.37	26.84	27.24	26.78	0
		1	25	27.19	27.39	26.91	27.23	26.43	0
		1	49	27.17	27.34	26.82	27.21	25.85	0
		25	0	26.26	26.43	25.93	26.33	25.90	1
		25	12	26.26	26.41	25.91	26.30	25.72	1
		25	25	26.28	26.41	25.90	26.31	25.46	1
		50	0	26.33	26.46	25.90	26.34	25.67	1
	16QAM	1	0	26.48	26.16	26.10	25.58	25.94	1
		1	25	26.45	26.01	25.97	26.45	25.67	1
		1	49	26.45	26.16	26.06	25.19	25.15	1
		25	0	25.27	25.43	24.91	25.33	24.97	2
		25	12	25.26	25.40	24.88	25.31	24.93	2
		25	25	25.26	25.39	24.87	25.29	24.78	2
		50	0	25.34	25.41	24.91	25.34	24.96	2
	64QAM	1	0	25.47	25.46	25.40	25.49	25.16	2
		1	25	25.43	25.43	25.31	25.48	25.07	2
		1	49	25.15	25.41	25.31	25.46	24.68	2
		25	0	24.32	24.38	23.91	24.28	23.97	3
		25	12	24.31	24.36	23.90	24.26	23.96	3
		25	25	24.31	24.36	23.87	24.25	23.93	3
		50	0	24.35	24.42	23.91	24.32	23.98	3
	256QAM	1	0	21.98	22.11	21.69	21.95	21.61	5
		1	25	21.91	22.04	21.60	21.86	21.50	5
		1	49	21.91	22.02	21.59	21.88	21.51	5
		25	0	22.32	22.40	21.92	22.33	22.03	5
		25	12	22.31	22.37	21.88	22.30	21.99	5
		25	25	22.30	22.36	21.89	22.30	21.99	5
		50	0	22.33	22.43	21.91	22.32	21.99	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
5 MHz	QPSK	1	0	27.15	27.36	26.82	27.22	26.84	0
		1	12	27.17	27.30	26.76	27.14	26.77	0
		1	24	27.18	27.36	26.84	27.24	26.85	0
		12	0	26.29	26.42	25.89	26.30	25.98	1
		12	7	26.27	26.38	25.87	26.28	25.95	1
		12	13	26.28	26.40	25.88	26.29	25.96	1
		25	0	26.26	26.39	25.88	26.29	25.96	1
	16QAM	1	0	26.38	26.48	25.80	26.44	26.33	1
		1	12	26.38	26.41	25.73	26.41	26.26	1
		1	24	26.43	26.44	25.77	26.41	26.28	1
		12	0	25.29	25.43	24.94	25.32	24.97	2
		12	7	25.28	25.40	24.91	25.33	24.94	2
		12	13	25.28	25.40	24.91	25.28	24.94	2
		25	0	25.29	25.40	24.90	25.26	24.92	2
	64QAM	1	0	25.48	25.47	25.09	25.46	25.18	2
		1	12	25.43	25.45	25.08	25.43	25.06	2
		1	24	25.46	25.41	25.12	25.41	25.16	2
		12	0	24.35	24.37	23.89	24.21	23.98	3
		12	7	24.30	24.36	23.89	24.21	23.94	3
		12	13	24.34	24.35	23.86	24.18	23.94	3
		25	0	24.22	24.38	23.92	24.28	23.95	3
	256QAM	1	0	22.17	22.34	21.70	22.08	21.86	5
		1	12	22.10	22.25	21.66	22.04	21.74	5
		1	24	22.18	22.29	21.64	22.06	21.81	5
		12	0	22.32	22.34	21.88	22.24	21.98	5
		12	7	22.29	22.33	21.84	22.22	21.93	5
		12	13	22.30	22.32	21.84	22.22	21.95	5
		25	0	22.30	22.34	21.86	22.25	21.96	5

10.3.14 LTE Band 41 (Power Class 3)

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
20 MHz	QPSK	1	0	24.71	24.33	24.37	24.70	24.14	0
		1	49	24.75	24.85	24.92	24.79	24.48	0
		1	99	24.74	24.81	24.32	24.75	23.14	0
		50	0	23.89	23.95	23.97	23.91	23.67	1
		50	24	23.83	23.89	23.46	23.88	23.55	1
		50	50	23.86	23.32	23.40	23.83	22.82	1
		100	0	23.86	23.77	23.91	23.86	23.20	1
	16QAM	1	0	23.56	23.89	23.60	23.98	23.69	1
		1	49	23.72	23.93	23.44	23.75	23.13	1
		1	99	23.76	23.85	23.35	23.62	22.20	1
		50	0	22.88	22.98	22.42	22.85	22.54	2
		50	24	22.85	22.97	22.39	22.84	22.50	2
		50	50	22.83	22.91	22.36	22.79	22.19	2
		100	0	22.88	22.98	22.44	22.89	22.55	2
	64QAM	1	0	22.96	22.42	22.48	22.98	22.66	2
		1	49	22.90	22.98	22.36	22.87	22.44	2
		1	99	22.88	23.00	22.39	22.84	21.70	2
		50	0	21.89	21.99	21.43	21.85	21.53	3
		50	24	21.88	21.95	21.39	21.83	21.51	3
		50	50	21.83	21.90	21.35	21.78	21.44	3
		100	0	21.81	21.90	21.37	21.78	21.46	3
	256QAM	1	0	19.71	19.83	19.21	19.66	19.35	5
		1	49	19.64	19.74	19.16	19.57	19.34	5
		1	99	19.65	19.74	19.21	19.59	19.29	5
		50	0	19.83	19.94	19.41	19.83	19.50	5
		50	24	19.81	19.90	19.37	19.77	19.47	5
		50	50	19.80	19.86	19.34	19.76	19.43	5
		100	0	19.75	19.86	19.32	19.73	19.42	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
15 MHz	QPSK	1	0	24.50	24.90	24.36	24.79	24.29	0
		1	36	24.72	24.80	24.24	24.69	24.16	0
		1	74	24.82	24.85	24.32	24.74	23.00	0
		36	0	23.88	23.55	23.47	23.90	23.40	1
		36	18	23.88	23.98	23.44	23.87	23.26	1
		36	37	23.87	23.97	23.43	23.86	22.83	1
		75	0	23.88	23.99	23.44	23.86	23.09	1
	16QAM	1	0	23.39	23.71	23.54	23.87	23.13	1
		1	36	23.76	23.87	23.48	23.73	23.19	1
		1	74	23.87	23.85	23.42	23.80	22.09	1
		36	0	22.85	22.96	22.44	22.86	22.55	2
		36	18	22.83	22.94	22.41	22.82	22.51	2
		36	37	22.82	22.92	22.40	22.81	22.21	2
		75	0	22.87	22.95	22.42	22.84	22.49	2
	64QAM	1	0	22.73	22.11	22.69	22.99	22.57	2
		1	36	22.91	22.99	22.58	22.90	22.49	2
		1	74	22.86	23.00	22.62	22.92	21.65	2
		36	0	21.83	21.94	21.40	21.83	21.51	3
		36	18	21.82	21.92	21.39	21.81	21.48	3
		36	37	21.82	21.88	21.35	21.79	21.42	3
		75	0	21.84	21.92	21.39	21.83	21.49	3
	256QAM	1	0	19.66	19.95	19.25	19.64	19.42	5
		1	36	19.69	19.75	19.16	19.61	19.23	5
		1	74	19.58	19.75	19.10	19.50	19.01	5
		36	0	19.79	19.90	19.36	19.78	19.45	5
		36	18	19.76	19.86	19.34	19.75	19.43	5
		36	37	19.77	19.85	19.33	19.74	19.40	5
		75	0	19.75	19.85	19.34	19.75	19.41	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
10 MHz	QPSK	1	0	24.80	24.91	24.35	24.78	24.52	0
		1	25	24.71	24.79	24.24	24.67	24.17	0
		1	49	24.78	24.90	24.39	24.81	23.63	0
		25	0	23.87	23.99	23.45	23.87	23.48	1
		25	12	23.86	23.98	23.43	23.86	23.29	1
		25	25	23.87	23.97	23.43	23.85	23.04	1
		50	0	23.91	24.00	23.44	23.89	23.26	1
	16QAM	1	0	23.76	23.84	23.43	23.91	23.47	1
		1	25	23.71	23.89	23.29	23.74	23.23	1
		1	49	23.78	23.92	23.41	23.78	22.71	1
		25	0	22.88	22.96	22.44	22.85	22.52	2
		25	12	22.84	22.93	22.40	22.82	22.49	2
		25	25	22.83	22.92	22.41	22.81	22.41	2
		50	0	22.87	22.96	22.40	22.82	22.51	2
	64QAM	1	0	22.95	22.61	22.58	22.90	22.54	2
		1	25	22.98	22.92	22.57	22.85	22.59	2
		1	49	22.94	22.94	22.55	22.99	22.32	2
		25	0	21.81	21.91	21.40	21.78	21.47	3
		25	12	21.80	21.90	21.37	21.79	21.44	3
		25	25	21.82	21.89	21.35	21.77	21.44	3
		50	0	21.85	21.92	21.39	21.82	21.49	3
	256QAM	1	0	19.68	19.81	19.25	19.63	19.35	5
		1	25	19.59	19.72	19.19	19.55	19.25	5
		1	49	19.62	19.65	19.13	19.59	19.23	5
		25	0	19.79	19.89	19.35	19.79	19.47	5
		25	12	19.77	19.87	19.33	19.75	19.44	5
		25	25	19.78	19.86	19.33	19.74	19.42	5
		50	0	19.80	19.90	19.37	19.77	19.46	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
5 MHz	QPSK	1	0	24.76	24.84	24.29	24.71	24.39	0
		1	12	24.71	24.80	24.26	24.68	24.21	0
		1	24	24.81	24.82	24.29	24.73	23.89	0
		12	0	23.81	23.93	23.41	23.83	23.44	1
		12	7	23.81	23.93	23.42	23.82	23.32	1
		12	13	23.81	23.92	23.40	23.82	23.19	1
		25	0	23.82	23.93	23.41	23.82	23.32	1
	16QAM	1	0	23.90	23.77	23.45	23.71	23.48	1
		1	12	23.87	23.76	23.23	23.64	23.25	1
		1	24	23.94	23.86	23.31	23.74	22.98	1
		12	0	22.79	22.93	22.37	22.78	22.50	2
		12	7	22.81	22.91	22.39	22.81	22.48	2
		12	13	22.79	22.89	22.35	22.79	22.46	2
		25	0	22.84	22.91	22.36	22.79	22.48	2
	64QAM	1	0	22.82	22.41	22.45	22.92	22.73	2
		1	12	22.74	22.97	22.39	22.90	22.64	2
		1	24	22.71	22.84	22.48	22.96	22.64	2
		12	0	21.69	21.83	21.34	21.80	21.49	3
		12	7	21.53	21.83	21.33	21.76	21.47	3
		12	13	21.89	21.82	21.30	21.72	21.39	3
		25	0	21.23	21.84	21.30	21.74	21.42	3
	256QAM	1	0	19.69	19.74	19.33	19.63	19.39	5
		1	12	19.66	19.54	19.19	19.53	19.28	5
		1	24	19.74	19.57	19.31	19.59	19.24	5
		12	0	19.70	19.82	19.30	19.73	19.41	5
		12	7	19.74	19.81	19.29	19.71	19.40	5
		12	13	19.70	19.78	19.27	19.70	19.36	5
		25	0	19.71	19.85	19.29	19.74	19.41	5

10.3.15 LTE Band 48

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 340	55 773	56 207	56 640	
				3 560.0 MHz	3 603.3 MHz	3 646.7 MHz	3 690.0 MHz	
20 MHz	QPSK	1	0	21.82	21.94	22.39	23.14	0
		1	49	22.02	22.06	22.56	23.41	0
		1	99	22.01	21.98	22.49	23.32	0
		50	0	20.91	21.00	21.45	22.27	1
		50	24	20.95	21.02	21.48	22.33	1
		50	50	21.02	21.03	21.53	22.41	1
		100	0	21.02	21.05	21.50	22.36	1
	16QAM	1	0	20.91	20.95	21.32	22.23	1
		1	49	21.08	20.72	21.25	22.23	1
		1	99	21.16	20.86	21.39	22.30	1
		50	0	19.99	20.02	20.43	21.35	2
		50	24	20.04	20.02	20.46	21.40	2
		50	50	20.09	20.03	20.50	21.45	2
		100	0	20.04	20.08	20.53	21.43	2
	64QAM	1	0	20.01	19.99	20.44	21.17	2
		1	49	19.95	19.97	20.48	21.25	2
		1	99	20.14	19.92	20.62	21.42	2
		50	0	19.01	19.04	19.47	20.37	3
		50	24	19.04	19.05	19.50	20.40	3
		50	50	19.10	19.06	19.55	20.45	3
		100	0	19.10	19.04	19.48	20.39	3
	256QAM	1	0	16.68	16.80	17.26	18.12	5
		1	49	16.72	16.84	17.30	18.21	5
		1	99	16.87	16.95	17.41	18.31	5
		50	0	16.97	17.08	17.50	18.41	5
		50	24	17.04	17.08	17.53	18.43	5
		50	50	17.10	17.09	17.56	18.47	5
		100	0	17.01	17.04	17.49	18.40	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 315	55 765	56 215	56 665	
				3 557.5 MHz	3 602.5 MHz	3 647.5 MHz	3 692.5 MHz	
15 MHz	QPSK	1	0	21.85	21.89	22.32	23.35	0
		1	36	21.87	21.84	22.30	23.34	0
		1	74	22.06	21.95	22.47	23.41	0
		36	0	20.97	21.03	21.40	22.41	1
		36	18	21.04	21.02	21.42	22.45	1
		36	37	21.07	21.05	21.47	22.47	1
		75	0	21.05	21.05	21.47	22.45	1
	16QAM	1	0	20.92	20.93	21.34	22.42	1
		1	36	20.93	20.94	21.33	22.41	1
		1	74	21.02	21.04	21.47	22.50	1
		36	0	19.99	20.01	20.42	21.50	2
		36	18	20.03	20.00	20.43	21.41	2
		36	37	20.05	20.03	20.47	21.44	2
		75	0	20.04	20.04	20.47	21.46	2
	64QAM	1	0	19.89	20.04	20.34	21.37	2
		1	36	19.89	19.98	20.37	21.44	2
		1	74	20.06	20.14	20.44	21.49	2
		36	0	18.99	19.00	19.42	20.50	3
		36	18	19.03	19.01	19.45	20.43	3
		36	37	19.07	19.04	19.49	20.48	3
		75	0	19.05	19.03	19.46	20.45	3
	256QAM	1	0	16.81	16.84	17.18	18.36	5
		1	36	16.81	16.81	17.15	18.36	5
		1	74	16.89	16.91	17.37	18.43	5
		36	0	17.02	17.03	17.47	18.42	5
		36	18	17.05	17.03	17.49	18.45	5
		36	37	17.07	17.05	17.52	18.48	5
		75	0	17.03	17.04	17.46	18.44	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 290	55 757	56 223	56 690	
				3 555.0 MHz	3 601.7 MHz	3 648.3 MHz	3 695.0 MHz	
10 MHz	QPSK	1	0	21.94	22.02	22.38	23.32	0
		1	25	21.87	21.92	22.32	23.31	0
		1	49	22.00	22.00	22.48	23.43	0
		25	0	21.02	21.05	21.49	22.45	1
		25	12	21.05	21.06	21.51	22.46	1
		25	25	21.06	21.06	21.52	22.50	1
		50	0	21.06	21.06	21.51	22.41	1
	16QAM	1	0	21.00	20.99	21.47	22.29	1
		1	25	20.91	20.89	21.44	22.28	1
		1	49	21.03	20.96	21.58	22.40	1
		25	0	20.02	20.04	20.49	21.49	2
		25	12	20.05	20.04	20.51	21.48	2
		25	25	20.06	20.06	20.53	21.42	2
		50	0	20.06	20.07	20.51	21.49	2
	64QAM	1	0	19.91	20.02	20.38	21.42	2
		1	25	19.90	19.99	20.30	21.43	2
		1	49	20.06	20.06	20.44	21.34	2
		25	0	19.04	19.04	19.48	20.47	3
		25	12	19.05	19.04	19.50	20.46	3
		25	25	19.07	19.05	19.49	20.48	3
		50	0	19.07	19.07	19.50	20.41	3
	256QAM	1	0	16.83	16.79	17.27	18.29	5
		1	25	16.74	16.77	17.21	18.21	5
		1	49	16.84	16.82	17.35	18.33	5
		25	0	17.06	17.06	17.51	18.41	5
		25	12	17.07	17.08	17.52	18.42	5
		25	25	17.11	17.08	17.54	18.42	5
		50	0	17.10	17.07	17.54	18.44	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 265	55 748	56 232	56 715	
				3 552.5 MHz	3 600.8 MHz	3 649.2 MHz	3 697.5 MHz	
5 MHz	QPSK	1	0	21.93	21.98	22.62	23.37	0
		1	12	22.21	22.03	22.51	23.48	0
		1	24	21.96	22.00	22.46	23.43	0
		12	0	21.04	20.99	21.45	22.42	1
		12	7	21.05	21.00	21.49	22.43	1
		12	13	21.05	21.01	21.48	22.45	1
		25	0	21.06	21.03	21.50	22.45	1
	16QAM	1	0	20.93	20.95	21.42	22.35	1
		1	12	20.85	20.81	21.33	22.36	1
		1	24	21.08	21.03	21.44	22.38	1
		12	0	19.99	19.99	20.49	21.42	2
		12	7	19.99	19.98	20.47	21.39	2
		12	13	20.00	20.02	20.48	21.45	2
		25	0	20.05	20.02	20.50	21.46	2
	64QAM	1	0	20.03	19.96	20.47	21.44	2
		1	12	20.17	20.13	20.66	21.47	2
		1	24	20.05	20.00	20.60	21.44	2
		12	0	18.97	19.01	19.53	20.45	3
		12	7	18.98	19.03	19.54	20.45	3
		12	13	18.99	19.03	19.53	20.44	3
		25	0	19.01	19.00	19.48	20.43	3
	256QAM	1	0	16.82	16.79	17.22	18.17	5
		1	12	17.02	16.97	17.38	18.31	5
		1	24	16.93	16.91	17.44	18.28	5
		12	0	17.02	17.03	17.47	18.45	5
		12	7	17.02	17.06	17.48	18.47	5
		12	13	17.02	17.02	17.50	18.48	5
		25	0	17.04	17.05	17.52	18.48	5

10.3.16 LTE Band 66 (Main1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	25.19	25.33	25.17	0
		1	49	24.86	25.34	25.13	0
		1	99	25.02	25.21	25.10	0
		50	0	24.21	24.33	24.11	1
		50	24	24.19	24.31	24.07	1
		50	50	24.17	24.29	24.04	1
		100	0	24.14	24.29	24.10	1
	16QAM	1	0	24.42	24.39	24.34	1
		1	49	24.12	24.23	24.36	1
		1	99	24.37	24.38	24.38	1
		50	0	23.18	23.33	23.09	2
		50	24	23.18	23.31	23.10	2
		50	50	23.11	23.27	23.10	2
		100	0	23.15	23.34	23.06	2
	64QAM	1	0	23.21	23.38	23.15	2
		1	49	23.27	23.31	23.04	2
		1	99	23.37	23.36	23.17	2
		50	0	22.06	22.17	21.99	3
		50	24	22.13	22.26	21.99	3
		50	50	22.12	22.24	21.96	3
		100	0	22.06	22.22	21.92	3
	256QAM	1	0	20.37	20.26	20.07	5
		1	49	20.32	20.31	19.93	5
		1	99	20.19	20.38	20.00	5
		50	0	19.98	20.13	19.84	5
		50	24	20.07	20.18	19.86	5
		50	50	20.05	20.05	19.86	5
		100	0	20.09	20.16	19.89	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	25.11	25.27	25.06	0
		1	36	25.10	25.19	24.95	0
		1	74	25.16	25.24	24.98	0
		36	0	24.27	24.32	24.02	1
		36	18	24.28	24.30	24.00	1
		36	37	24.27	24.24	23.96	1
		75	0	24.23	24.28	24.03	1
	16QAM	1	0	24.47	24.40	24.27	1
		1	36	24.42	24.40	24.14	1
		1	74	24.49	24.33	24.14	1
		36	0	23.27	23.36	22.99	2
		36	18	23.21	23.31	22.95	2
		36	37	23.19	23.37	22.94	2
		75	0	23.24	23.31	22.96	2
	64QAM	1	0	23.33	23.30	23.00	2
		1	36	23.32	23.29	22.86	2
		1	74	23.33	23.25	23.06	2
		36	0	22.15	22.26	21.83	3
		36	18	22.22	22.18	21.82	3
		36	37	22.15	22.33	21.84	3
		75	0	22.14	22.24	21.81	3
	256QAM	1	0	20.11	20.30	19.94	5
		1	36	20.09	20.32	19.63	5
		1	74	20.21	20.36	20.00	5
		36	0	20.14	20.26	19.75	5
		36	18	20.10	20.20	19.80	5
		36	37	20.08	20.22	19.74	5
		75	0	20.16	20.13	19.73	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	25.25	25.26	24.91	0
		1	25	25.12	25.24	24.82	0
		1	49	25.22	25.34	24.92	0
		25	0	24.27	24.32	23.92	1
		25	12	24.23	24.28	23.94	1
		25	25	24.22	24.22	23.92	1
		50	0	24.24	24.29	23.95	1
	16QAM	1	0	24.40	24.39	24.23	1
		1	25	24.28	24.33	23.97	1
		1	49	24.47	24.33	24.08	1
		25	0	23.26	23.32	22.95	2
		25	12	23.28	23.34	22.93	2
		25	25	23.20	23.26	22.91	2
		50	0	23.29	23.29	22.97	2
	64QAM	1	0	23.33	23.32	22.95	2
		1	25	23.29	23.39	22.73	2
		1	49	23.36	23.33	22.81	2
		25	0	22.14	22.18	21.82	3
		25	12	22.12	22.19	21.77	3
		25	25	22.23	22.13	21.78	3
		50	0	22.20	22.17	21.78	3
	256QAM	1	0	20.11	20.19	19.83	5
		1	25	20.17	20.20	19.60	5
		1	49	20.43	20.21	19.96	5
		25	0	20.14	20.10	19.70	5
		25	12	20.15	20.11	19.70	5
		25	25	20.15	20.15	19.68	5
		50	0	20.10	20.06	19.73	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	25.17	25.18	24.78	0
		1	12	25.30	25.37	24.86	0
		1	24	25.14	25.26	24.82	0
		12	0	24.14	24.28	23.87	1
		12	7	24.09	24.23	23.87	1
		12	13	24.15	24.23	23.87	1
		25	0	24.13	24.29	23.85	1
	16QAM	1	0	24.18	24.31	24.02	1
		1	12	24.24	24.39	24.14	1
		1	24	24.16	24.29	24.01	1
		12	0	23.15	23.25	22.87	2
		12	7	23.15	23.26	22.81	2
		12	13	23.08	23.22	22.77	2
		25	0	23.15	23.25	22.84	2
	64QAM	1	0	23.09	23.16	22.79	2
		1	12	23.43	23.33	23.10	2
		1	24	23.25	23.34	22.94	2
		12	0	22.15	22.27	21.81	3
		12	7	22.14	22.24	21.79	3
		12	13	22.12	22.22	21.80	3
		25	0	22.07	22.18	21.75	3
	256QAM	1	0	19.97	20.35	19.86	5
		1	12	20.18	20.27	19.76	5
		1	24	20.14	20.21	19.84	5
		12	0	20.08	20.14	19.68	5
		12	7	20.00	20.12	19.65	5
		12	13	20.11	20.13	19.75	5
		25	0	20.03	20.10	19.60	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	25.06	25.33	24.92	0
		1	8	24.98	25.19	24.83	0
		1	14	24.98	25.31	24.93	0
		8	0	24.15	24.22	23.84	1
		8	4	24.08	24.26	23.83	1
		8	7	24.11	24.23	23.83	1
		15	0	24.07	24.22	23.83	1
	16QAM	1	0	24.50	24.40	24.08	1
		1	8	24.10	24.26	23.76	1
		1	14	24.25	24.39	23.95	1
		8	0	23.14	23.18	22.91	2
		8	4	23.17	23.20	22.86	2
		8	7	23.22	23.26	22.91	2
		15	0	23.19	23.24	22.81	2
	64QAM	1	0	23.10	23.34	22.66	2
		1	8	23.16	23.33	22.83	2
		1	14	22.98	23.35	22.82	2
		8	0	22.20	22.23	21.76	3
		8	4	22.09	22.17	21.61	3
		8	7	22.12	22.22	21.80	3
		15	0	22.15	22.21	21.70	3
	256QAM	1	0	20.13	20.30	19.87	5
		1	8	20.13	20.11	19.62	5
		1	14	20.30	20.09	19.91	5
		8	0	20.14	20.24	19.74	5
		8	4	20.04	20.15	19.63	5
		8	7	20.09	20.25	19.66	5
		15	0	20.07	20.04	19.65	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	24.99	25.15	24.80	0
		1	3	24.77	24.99	24.66	0
		1	5	25.01	25.22	24.86	0
		3	0	25.02	25.28	24.90	0
		3	1	24.98	25.17	24.80	0
		3	3	24.96	25.11	24.69	0
		6	0	23.92	24.19	23.81	1
	16QAM	1	0	23.69	24.32	23.75	1
		1	3	24.10	24.26	24.03	1
		1	5	24.14	24.35	23.82	1
		3	0	24.21	24.26	23.93	1
		3	1	24.02	24.29	23.84	1
		3	3	24.09	24.20	23.77	1
		6	0	23.15	23.26	22.88	2
	64QAM	1	0	23.27	23.15	22.91	2
		1	3	23.03	23.13	22.74	2
		1	5	23.28	23.34	22.86	2
		3	0	22.91	23.23	22.56	2
		3	1	23.08	23.19	22.70	2
		3	3	23.07	23.10	22.68	2
		6	0	22.01	22.14	21.57	3
	256QAM	1	0	19.95	20.15	19.60	5
		1	3	20.03	19.92	19.62	5
		1	5	20.02	20.20	19.75	5
		3	0	20.05	20.22	19.75	5
		3	1	20.04	20.04	19.71	5
		3	3	20.07	20.10	19.66	5
		6	0	19.99	20.13	19.53	5

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Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	23.59	23.88	23.74	0
		1	49	23.62	24.00	23.78	0
		1	99	23.61	23.94	23.77	0
		50	0	22.75	23.14	22.99	1
		50	24	22.69	23.08	22.97	1
		50	50	22.70	23.06	22.90	1
		100	0	22.70	23.13	22.96	1
	16QAM	1	0	22.89	23.32	22.98	1
		1	49	22.94	23.17	23.10	1
		1	99	22.89	23.26	22.93	1
		50	0	21.77	22.20	21.96	2
		50	24	21.79	22.19	21.96	2
		50	50	21.75	22.14	21.94	2
		100	0	21.70	22.11	21.89	2
	64QAM	1	0	21.93	22.22	22.05	2
		1	49	21.91	22.32	22.15	2
		1	99	21.78	22.24	21.92	2
		50	0	20.78	21.26	20.93	3
		50	24	20.74	21.24	20.94	3
		50	50	20.79	21.13	20.91	3
		100	0	20.75	21.20	20.88	3
	256QAM	1	0	18.91	19.27	18.95	5
		1	49	19.00	19.38	18.89	5
		1	99	18.93	19.31	18.96	5
		50	0	18.78	19.17	18.88	5
		50	24	18.71	19.18	18.88	5
		50	50	18.68	19.15	18.84	5
		100	0	18.68	19.19	18.91	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	23.79	24.06	23.89	0
		1	36	23.61	23.98	23.69	0
		1	74	23.59	23.94	23.74	0
		36	0	22.75	23.10	22.92	1
		36	18	22.78	23.16	23.09	1
		36	37	22.78	23.13	22.97	1
		75	0	22.74	23.15	23.01	1
	16QAM	1	0	22.84	23.28	22.95	1
		1	36	23.07	23.32	23.18	1
		1	74	22.86	23.25	22.88	1
		36	0	21.71	22.17	21.98	2
		36	18	21.75	22.15	21.92	2
		36	37	21.73	22.14	21.89	2
		75	0	21.67	22.15	21.88	2
	64QAM	1	0	21.98	22.25	22.08	2
		1	36	21.86	22.23	22.09	2
		1	74	21.52	22.01	21.86	2
		36	0	20.65	21.20	20.90	3
		36	18	20.75	21.19	20.90	3
		36	37	20.83	21.20	20.95	3
		75	0	20.68	21.19	20.80	3
	256QAM	1	0	18.99	19.34	19.04	5
		1	36	18.86	19.19	18.86	5
		1	74	18.82	19.22	18.82	5
		36	0	18.78	19.15	18.89	5
		36	18	18.70	19.14	18.82	5
		36	37	18.62	19.11	18.83	5
		75	0	18.59	19.13	18.82	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	23.73	24.04	23.92	0
		1	25	23.57	23.95	23.68	0
		1	49	23.76	24.09	23.98	0
		25	0	22.76	23.15	23.00	1
		25	12	22.68	23.10	23.03	1
		25	25	22.74	23.12	22.94	1
		50	0	22.73	23.11	22.91	1
	16QAM	1	0	22.85	23.34	22.97	1
		1	25	23.08	23.29	23.21	1
		1	49	22.88	23.30	22.98	1
		25	0	21.68	22.14	21.86	2
		25	12	21.84	22.16	21.93	2
		25	25	21.75	22.13	22.00	2
		50	0	21.68	22.12	21.94	2
	64QAM	1	0	22.07	22.30	22.15	2
		1	25	21.71	22.13	21.90	2
		1	49	21.74	22.20	21.90	2
		25	0	20.73	21.19	20.89	3
		25	12	20.58	21.12	20.85	3
		25	25	20.90	21.17	20.90	3
		50	0	20.65	21.15	20.83	3
	256QAM	1	0	19.05	19.37	19.11	5
		1	25	18.93	19.26	18.81	5
		1	49	18.91	19.31	18.98	5
		25	0	18.74	19.15	18.92	5
		25	12	18.57	19.09	18.79	5
		25	25	18.64	19.13	18.87	5
		50	0	18.66	19.14	18.90	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	23.65	23.99	23.93	0
		1	12	23.61	24.07	23.84	0
		1	24	23.67	24.02	23.82	0
		12	0	22.80	23.13	22.99	1
		12	7	22.70	23.07	23.00	1
		12	13	22.76	23.15	23.02	1
		25	0	22.68	23.15	22.92	1
	16QAM	1	0	22.86	23.24	22.93	1
		1	12	23.13	23.34	23.31	1
		1	24	22.83	23.24	22.90	1
		12	0	21.76	22.11	21.90	2
		12	7	21.70	22.13	21.95	2
		12	13	21.88	22.23	22.03	2
		25	0	21.70	22.17	21.91	2
	64QAM	1	0	22.06	22.35	22.23	2
		1	12	22.05	22.37	22.29	2
		1	24	21.69	22.16	21.90	2
		12	0	20.83	21.25	20.93	3
		12	7	20.74	21.18	20.94	3
		12	13	20.88	21.17	20.93	3
		25	0	20.77	21.16	20.81	3
	256QAM	1	0	19.06	19.40	19.06	5
		1	12	18.92	19.25	18.77	5
		1	24	19.02	19.44	19.13	5
		12	0	18.80	19.13	18.90	5
		12	7	18.50	19.04	18.67	5
		12	13	18.76	19.17	18.81	5
		25	0	18.61	19.07	18.81	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	23.73	23.94	23.81	0
		1	8	23.55	23.92	23.74	0
		1	14	23.78	24.00	23.86	0
		8	0	22.74	23.07	22.89	1
		8	4	22.76	23.07	22.88	1
		8	7	22.82	23.06	22.88	1
		15	0	22.81	23.13	22.96	1
	16QAM	1	0	22.86	23.20	22.85	1
		1	8	22.96	23.07	22.95	1
		1	14	23.01	23.33	23.08	1
		8	0	21.73	22.09	21.86	2
		8	4	21.84	22.13	21.96	2
		8	7	21.87	22.12	22.00	2
		15	0	21.74	22.06	21.82	2
	64QAM	1	0	21.97	22.20	22.01	2
		1	8	21.84	22.17	21.96	2
		1	14	21.79	22.15	21.82	2
		8	0	20.71	21.12	20.84	3
		8	4	20.70	21.05	20.79	3
		8	7	20.92	21.14	20.94	3
		15	0	20.65	21.02	20.68	3
	256QAM	1	0	18.94	19.25	18.89	5
		1	8	18.78	19.04	18.50	5
		1	14	18.99	19.23	18.92	5
		8	0	18.76	19.13	18.85	5
		8	4	18.73	19.10	18.75	5
		8	7	18.67	19.03	18.78	5
		15	0	18.69	19.07	18.77	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	23.58	23.85	23.70	0
		1	3	23.58	23.85	23.55	0
		1	5	23.77	24.02	23.81	0
		3	0	23.70	23.95	23.82	0
		3	1	23.74	24.02	23.97	0
		3	3	23.73	23.99	23.85	0
		6	0	22.76	23.10	22.93	1
	16QAM	1	0	22.69	22.99	22.68	1
		1	3	23.13	23.25	23.17	1
		1	5	23.00	23.32	22.98	1
		3	0	22.63	23.00	22.78	1
		3	1	22.84	23.08	22.83	1
		3	3	22.82	23.11	22.91	1
		6	0	22.00	22.24	22.04	2
	64QAM	1	0	21.92	22.13	21.94	2
		1	3	21.86	22.16	21.93	2
		1	5	21.94	22.26	21.99	2
		3	0	21.83	22.17	21.83	2
		3	1	21.77	22.19	21.93	2
		3	3	21.82	22.13	21.94	2
		6	0	21.00	21.28	20.98	3
	256QAM	1	0	18.79	19.05	18.67	5
		1	3	18.98	19.27	18.73	5
		1	5	18.90	19.24	18.88	5
		3	0	18.83	19.14	18.89	5
		3	1	18.69	19.07	18.80	5
		3	3	18.81	19.21	18.92	5
		6	0	18.59	19.05	18.75	5

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Band width	Modulation	RB Size	RB offset	Maximum Average Power	
				133 297	MPR
				680.5 MHz	
20 MHz	QPSK	1	0	23.90	0
		1	49	23.75	0
		1	99	23.55	0
		50	0	22.91	1
		50	24	22.89	1
		50	50	22.78	1
		100	0	22.87	1
	16QAM	1	0	23.15	1
		1	49	22.69	1
		1	99	22.83	1
		50	0	21.89	2
		50	24	21.85	2
		50	50	21.73	2
		100	0	21.83	2
	64QAM	1	0	22.17	2
		1	49	21.98	2
		1	99	21.78	2
		50	0	20.89	3
		50	24	20.85	3
		50	50	20.73	3
		100	0	20.78	3
	256QAM	1	0	18.94	5
		1	49	18.87	5
		1	99	18.70	5
		50	0	18.87	5
		50	24	18.75	5
		50	50	18.65	5
		100	0	18.77	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power		MPR
				133 297		
				680.5 MHz		
15 MHz	QPSK	1	0	23.78	0	
		1	36	23.68	0	
		1	74	23.66	0	
		36	0	22.88	1	
		36	18	22.86	1	
		36	37	22.80	1	
		75	0	22.82	1	
	16QAM	1	0	23.03	1	
		1	36	22.83	1	
		1	74	22.94	1	
		36	0	21.83	2	
		36	18	21.78	2	
		36	37	21.76	2	
		75	0	21.79	2	
	64QAM	1	0	21.99	2	
		1	36	21.96	2	
		1	74	21.94	2	
		36	0	20.89	3	
		36	18	20.83	3	
		36	37	20.76	3	
		75	0	20.79	3	
	256QAM	1	0	19.00	5	
		1	36	18.81	5	
		1	74	18.80	5	
		36	0	18.85	5	
		36	18	18.79	5	
		36	37	18.73	5	
		75	0	18.83	5	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				133 172	133 297	133 422	
				668.0 MHz	680.5 MHz	693.0 MHz	
10 MHz	QPSK	1	0	23.91	23.82	23.80	0
		1	25	23.66	23.56	23.52	0
		1	49	23.77	23.70	23.54	0
		25	0	23.04	22.82	22.75	1
		25	12	22.95	22.76	22.74	1
		25	25	22.95	22.73	22.71	1
		50	0	23.04	22.86	22.80	1
	16QAM	1	0	23.18	22.97	23.04	1
		1	25	22.89	22.85	22.85	1
		1	49	23.02	22.82	22.84	1
		25	0	22.04	21.84	21.81	2
		25	12	22.04	21.82	21.81	2
		25	25	21.94	21.79	21.72	2
		50	0	22.03	21.88	21.72	2
	64QAM	1	0	22.14	22.04	21.96	2
		1	25	22.03	21.95	21.73	2
		1	49	22.11	21.91	21.90	2
		25	0	21.02	20.80	20.74	3
		25	12	20.93	20.77	20.76	3
		25	25	20.86	20.71	20.72	3
		50	0	20.96	20.81	20.69	3
	256QAM	1	0	19.04	19.01	18.87	5
		1	25	18.86	18.79	18.69	5
		1	49	19.03	18.79	18.78	5
		25	0	18.98	18.85	18.72	5
		25	12	18.92	18.78	18.71	5
		25	25	18.92	18.74	18.65	5
		50	0	18.92	18.76	18.63	5

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				133 147	133 297	133 447	
				665.5 MHz	680.5 MHz	695.5 MHz	
5 MHz	QPSK	1	0	24.07	23.77	23.61	0
		1	12	24.13	23.82	23.65	0
		1	24	23.96	23.72	23.51	0
		12	0	23.09	22.80	22.62	1
		12	7	23.09	22.80	22.74	1
		12	13	23.07	22.80	22.66	1
		25	0	23.12	22.82	22.73	1
	16QAM	1	0	23.38	22.96	22.94	1
		1	12	23.34	22.87	22.88	1
		1	24	23.23	22.94	22.87	1
		12	0	22.10	21.86	21.73	2
		12	7	22.03	21.86	21.69	2
		12	13	22.05	21.82	21.69	2
		25	0	22.10	21.84	21.71	2
	64QAM	1	0	22.05	21.94	21.90	2
		1	12	22.30	21.82	21.65	2
		1	24	22.04	21.96	21.76	2
		12	0	21.06	20.91	20.67	3
		12	7	21.03	20.84	20.68	3
		12	13	21.03	20.85	20.66	3
		25	0	21.01	20.76	20.69	3
	256QAM	1	0	19.24	18.90	18.84	5
		1	12	19.12	18.95	18.72	5
		1	24	19.05	18.78	18.50	5
		12	0	18.94	18.77	18.71	5
		12	7	18.96	18.72	18.57	5
		12	13	18.98	18.75	18.60	5
		25	0	19.04	18.76	18.65	5

10.4 5G NR Average Conducted Output Power

10.4.1 NR n5(SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300		
					836.5 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.72	0	
			1	53	24.77	0	
			1	104	24.48	0	
			50	0	24.22	0.5	
			50	28	24.64	0	
			50	56	24.03	0.5	
			100	0	24.18	0.5	
		QPSK	1	1	24.79	0	
			1	53	24.74	0	
			1	104	24.45	0	
			50	0	23.75	1	
			50	28	24.65	0	
			50	56	23.57	1	
			100	0	23.70	1	
		16QAM	1	1	23.86	1	
	64QAM	1	1	22.19	2.5		
256QAM	1	1	20.25	4.5			
CP-OFDM	QPSK	1	1	23.28	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300		
					836.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.64	0	
			1	40	24.47	0	
			1	77	24.45	0	
			36	0	24.18	0.5	
			36	22	24.56	0	
			36	43	24.06	0.5	
			75	0	24.13	0.5	
		QPSK	1	1	24.65	0	
			1	40	24.47	0	
			1	77	24.50	0	
			36	0	23.68	1	
			36	22	24.57	0	
			36	43	23.51	1	
			75	0	23.65	1	
		16QAM	1	1	23.63	1	
	64QAM	1	1	22.16	2.5		
256QAM	1	1	20.03	4.5			
CP-OFDM	QPSK	1	1	23.29	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300		
					836.5 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.58	0	
			1	26	24.59	0	
			1	50	24.49	0	
			25	0	24.13	0.5	
			25	14	24.45	0	
			25	27	23.96	0.5	
			50	0	23.98	0.5	
		QPSK	1	1	24.60	0	
			1	26	24.47	0	
			1	50	24.38	0	
			25	0	23.53	1	
			25	14	24.46	0	
			25	27	23.48	1	
		16QAM	50	0	23.48	1	
			1	1	23.39	1	
			1	1	22.07	2.5	
256QAM	1	1	20.01	4.5			
	1	1	23.09	1.5			
CP-OFDM	QPSK	1	1	23.09	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					165300	167300	169300	
					826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.31	24.49	24.34	0
			1	13	24.14	24.35	24.10	0
			1	23	24.33	24.46	24.34	0
			12	0	23.73	23.95	23.77	0.5
			12	7	24.32	24.41	24.25	0
			12	13	23.91	23.92	23.90	0.5
			25	0	23.86	23.94	23.75	0.5
		QPSK	1	1	24.39	24.52	24.32	0
			1	13	24.27	24.38	24.22	0
			1	23	24.43	24.49	24.44	0
			12	0	23.24	23.46	23.37	1
			12	7	24.33	24.42	24.36	0
			12	13	23.36	23.44	23.34	1
		16QAM	25	0	23.24	23.43	23.20	1
			1	1	23.48	23.75	23.46	1
			1	1	21.96	22.04	21.86	2.5
		256QAM	1	1	19.66	19.95	19.72	4.5
			1	1	22.80	23.00	22.89	1.5
		CP-OFDM	QPSK	1	1	22.80	23.00	22.89

10.4.2 NR n12 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					141 500		
					707.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.67	0	
			1	40	24.63	0	
			1	77	24.72	0	
			36	0	24.15	0.5	
			36	22	24.73	0	
			36	43	24.19	0.5	
			75	0	24.26	0.5	
		QPSK	1	1	24.73	0	
			1	40	24.65	0	
			1	77	24.67	0	
			36	0	23.63	1	
			36	22	24.79	0	
			36	43	23.65	1	
			75	0	23.72	1	
	16QAM	1	1	23.67	1		
	64QAM	1	1	22.18	2.5		
	256QAM	1	1	20.18	4.5		
CP-OFDM	QPSK	1	1	23.08	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					141 500		
					707.5 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.62	0	
			1	26	24.72	0	
			1	50	24.75	0	
			25	0	24.27	0.5	
			25	14	24.72	0	
			25	27	24.18	0.5	
			50	0	24.27	0.5	
		QPSK	1	1	24.76	0	
			1	26	24.70	0	
			1	50	24.57	0	
			25	0	23.71	1	
			25	14	24.73	0	
			25	27	23.61	1	
			50	0	23.78	1	
	16QAM	1	1	23.51	1		
	64QAM	1	1	22.18	2.5		
	256QAM	1	1	20.39	4.5		
CP-OFDM	QPSK	1	1	23.11	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					140 300	141 500	142 700	
					701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.62	24.75	24.73	0
			1	13	24.45	24.58	24.65	0
			1	23	24.46	24.54	24.56	0
			12	0	24.05	24.13	24.28	0.5
			12	7	24.62	24.62	24.71	0
			12	13	23.88	23.99	24.13	0.5
			25	0	24.04	24.26	24.19	0.5
		QPSK	1	1	24.54	24.77	24.74	0
			1	13	24.54	24.69	24.69	0
			1	23	24.37	24.47	24.47	0
			12	0	23.70	23.65	23.79	1
			12	7	24.53	24.76	24.72	0
			12	13	23.61	23.57	23.56	1
		25	0	23.76	23.69	23.66	1	
		16QAM	1	1	23.42	23.41	23.24	1
		64QAM	1	1	22.04	22.11	22.12	2.5
		256QAM	1	1	20.28	20.42	20.35	4.5
		CP-OFDM	QPSK	1	1	23.30	23.21	23.30



10.4.3 NR n25 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					372 000	376 500	381 000	
					1 860.0 MHz	1 882.5 MHz	1 905 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.93	24.72	24.90	0
			1	53	24.97	24.86	25.00	0
			1	104	24.78	24.82	24.88	0
			50	0	24.36	24.31	24.57	0.5
			50	28	24.84	24.89	24.95	0
			50	56	24.23	24.37	24.48	0.5
			100	0	24.33	24.31	24.52	0.5
		QPSK	1	1	24.82	24.81	24.97	0
			1	53	24.79	24.86	24.98	0
			1	104	24.88	24.90	25.01	0
			50	0	23.96	23.92	24.02	1
			50	28	24.76	24.85	24.99	0
			50	56	23.78	23.84	23.96	1
			100	0	23.78	23.82	23.97	1
		16QAM	1	1	24.02	23.65	23.90	1
		64QAM	1	1	22.57	22.18	22.52	2.5
		256QAM	1	1	20.21	20.12	20.31	4.5
CP-OFDM	QPSK	1	1	23.33	23.26	23.48	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					371 500	376 500	381 500	
					1 857.5 MHz	1 882.5 MHz	1 907.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.85	24.77	24.73	0
			1	40	24.69	24.63	24.60	0
			1	77	24.61	24.73	24.73	0
			36	0	24.36	24.27	24.21	0.5
			36	22	24.78	24.72	24.72	0
			36	43	24.21	24.21	24.22	0.5
			75	0	24.30	24.24	24.22	0.5
		QPSK	1	1	24.86	24.72	24.72	0
			1	40	24.65	24.64	24.65	0
			1	77	24.71	24.71	24.69	0
			36	0	23.88	23.77	23.80	1
			36	22	24.79	24.71	24.71	0
			36	43	23.70	23.72	23.75	1
			75	0	23.78	23.71	23.71	1
		16QAM	1	1	23.77	23.74	23.71	1
		64QAM	1	1	22.25	22.28	22.28	2.5
		256QAM	1	1	20.27	20.15	20.10	4.5
CP-OFDM	QPSK	1	1	23.17	23.24	23.22	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					371 000	376 500	382 000	
					1 855.0 MHz	1 882.5 MHz	1 910 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.84	24.84	24.93	0
			1	26	24.79	24.75	24.96	0
			1	50	24.71	24.68	25.00	0
			25	0	24.37	24.24	24.50	0.5
			25	14	24.83	24.68	24.99	0
			25	27	24.27	24.20	24.53	0.5
			50	0	24.33	24.22	24.52	0.5
		QPSK	1	1	24.87	24.68	24.95	0
			1	26	24.76	24.67	24.92	0
			1	50	24.69	24.76	25.10	0
			25	0	23.89	23.74	24.01	1
			25	14	24.83	24.75	25.00	0
			25	27	23.80	23.72	24.06	1
			50	0	23.83	23.73	23.98	1
		16QAM	1	1	23.81	23.80	23.77	1
		64QAM	1	1	22.27	22.07	22.46	2.5
		256QAM	1	1	20.20	20.11	20.06	4.5
		CP-OFDM	QPSK	1	1	23.29	23.20	23.28

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					370 500	376 500	382 500	
					1 852.5 MHz	1 882.5 MHz	1 912.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.81	24.82	24.95	0
			1	13	24.75	24.76	24.88	0
			1	23	24.82	24.79	24.96	0
			12	0	24.35	24.31	24.50	0.5
			12	7	24.84	24.80	25.01	0
			12	13	24.35	24.35	24.48	0.5
			25	0	24.34	24.32	24.54	0.5
		QPSK	1	1	24.87	24.86	25.01	0
			1	13	24.80	24.75	24.96	0
			1	23	24.82	24.83	25.04	0
			12	0	23.89	24.27	24.05	1
			12	7	24.81	24.80	25.02	0
			12	13	23.90	24.24	24.06	1
			25	0	23.90	24.21	24.07	1
		16QAM	1	1	23.77	23.86	24.02	1
		64QAM	1	1	22.45	22.39	22.32	2.5
		256QAM	1	1	20.02	19.97	20.10	4.5
		CP-OFDM	QPSK	1	1	23.25	23.15	23.20

10.4.4 NR n30 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					462 000		
					2 310.0 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.33		0
			1	26	23.44		0
			1	50	23.22		0
			25	0	22.87		0.5
			25	14	23.39		0
			25	27	22.93		0.5
			50	0	22.95		0.5
		QPSK	1	1	23.35		0
			1	26	23.46		0
			1	50	23.07		0
			25	0	22.41		1
			25	14	23.40		0
			25	27	22.43		1
			50	0	22.44		1
		16QAM	1	1	22.36		1
64QAM	1	1	20.96		2.5		
256QAM	1	1	18.95		4.5		
CP-OFDM	QPSK	1	1	21.91		1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR	
					461 500	462 000	462 500		
					2 307.5 MHz	2 310.0 MHz	2 312.5 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.16	23.32	23.28	0	
			1	13	23.16	23.26	23.24	0	
			1	23	23.28	23.13	23.10	0	
			12	0	22.80	22.82	22.79	0.5	
			12	7	23.28	23.30	23.35	0	
			12	13	22.80	22.82	22.81	0.5	
			25	0	22.76	22.85	22.80	0.5	
		QPSK	1	1	23.09	23.29	23.30	0	
			1	13	23.19	23.30	23.27	0	
			1	23	23.31	23.16	23.11	0	
			12	0	22.31	22.27	22.30	1	
			12	7	23.34	22.27	23.31	0	
			12	13	22.24	22.33	22.26	1	
			25	0	22.30	22.29	22.26	1	
		16QAM	1	1	22.15	22.30	22.30	1	
		64QAM	1	1	20.79	20.80	20.80	2.5	
		256QAM	1	1	18.62	18.84	18.82	4.5	
		CP-OFDM	QPSK	1	1	21.70	21.79	21.79	1.5

10.4.5 NR n41 (SA) (Power Class 2)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					518 598		
					2 592.99 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.66	0	
			1	137	20.08	0	
			1	271	20.64	0	
			135	0	19.75	0.5	
			135	69	19.67	0	
			135	138	19.70	0.5	
			270	0	19.68	0.5	
		QPSK	1	1	20.74	0	
			1	137	20.69	0	
			1	271	20.61	0	
			135	0	19.85	1	
			135	69	20.55	0	
			135	138	19.68	1	
			270	0	19.72	1	
		16QAM	1	1	18.71	1	
		64QAM	1	1	17.42	2.5	
256QAM	1	1	15.63	4.5			
CP-OFDM	QPSK	1	1	18.72	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					508 200	528 996	
					2 541.00 MHz	2 644.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.85	20.44	0
			1	123	20.06	20.88	0
			1	243	20.72	20.49	0
			120	0	20.45	19.71	0.5
			120	63	20.06	20.88	0
			120	125	19.89	20.11	0.5
			243	0	20.02	19.84	0.5
		QPSK	1	1	20.72	20.50	0
			1	123	20.00	19.88	0
			1	243	20.74	20.45	0
			120	0	19.83	19.73	1
			120	63	19.63	20.90	0
			120	125	18.94	19.29	1
			243	0	18.94	19.88	1
		16QAM	1	1	19.72	19.87	1
		64QAM	1	1	18.43	18.25	2.5
256QAM	1	1	16.39	16.21	4.5		
CP-OFDM	QPSK	1	1	18.66	19.26	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					507 204	529 998	
					2 536.02 MHz	2 649.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.58	20.65	0
			1	109	20.85	20.92	0
			1	215	20.84	20.54	0
			108	0	20.33	19.57	0.5
			108	55	20.95	20.92	0
			108	109	19.94	20.16	0.5
		216	0	19.84	19.88	0.5	
		QPSK	1	1	20.73	20.66	0
			1	109	20.95	20.97	0
			1	215	20.86	20.57	0
			108	0	19.85	19.67	1
			108	55	20.90	20.84	0
			108	109	19.96	19.28	1
		216	0	19.88	19.84	1	
		16QAM	1	1	19.74	19.62	1
		64QAM	1	1	18.47	18.29	2.5
256QAM	1	1	16.42	16.28	4.5		
CP-OFDM	QPSK	1	1	18.64	18.57	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					506 202	531 000	
					2 531.01 MHz	2 655.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.38	20.25	0
			1	95	20.68	20.56	0
			1	188	20.65	20.66	0
			90	0	20.04	20.12	0.5
			90	50	20.67	20.68	0
			90	99	19.72	19.64	0.5
		180	0	19.73	19.59	0.5	
		QPSK	1	1	20.33	20.33	0
			1	95	20.66	20.61	0
			1	188	20.72	20.69	0
			90	0	19.42	19.32	1
			90	50	20.66	20.67	0
			90	99	19.68	19.69	1
		180	0	19.75	19.52	1	
		16QAM	1	1	19.46	19.53	1
		64QAM	1	1	18.21	18.14	2.5
256QAM	1	1	16.20	16.16	4.5		
CP-OFDM	QPSK	1	1	18.39	18.31	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					505 200	518 598	531 996	
					2 526.00 MHz	2 592.99 MHz	2 659.98 MHz	
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.74	20.84	20.66	0
			1	81	20.83	20.77	20.62	0
			1	160	20.94	20.73	20.56	0
			81	0	19.66	19.95	19.85	0.5
			81	41	20.74	20.71	20.57	0
			81	81	19.82	19.55	20.26	0.5
		162	0	19.75	19.64	19.52	0.5	
		QPSK	1	1	20.84	20.84	20.74	0
			1	81	20.81	20.79	20.67	0
			1	160	20.94	20.74	20.59	0
			81	0	19.64	19.97	19.76	1
			81	41	20.77	20.74	20.59	0
			81	81	19.88	19.65	19.42	1
		162	0	19.68	19.70	19.54	1	
		16QAM	1	1	18.72	18.83	19.76	1
		64QAM	1	1	17.64	17.75	17.65	2.5
256QAM	1	1	15.65	15.75	15.60	4.5		
CP-OFDM	QPSK	1	1	18.60	18.76	18.59	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					504 204	518 598	532 998	
					2 521.02 MHz	2 592.99 MHz	2 664.99 MHz	
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.67	20.94	20.82	0
			1	67	20.74	20.72	20.41	0
			1	131	20.88	20.74	20.62	0
			64	0	19.92	19.92	19.83	0.5
			64	35	19.64	19.73	20.42	0
			64	69	19.65	19.74	19.51	0.5
		128	0	19.62	19.70	20.20	0.5	
		QPSK	1	1	20.65	20.97	20.84	0
			1	67	20.81	20.75	20.43	0
			1	131	20.92	20.77	20.68	0
			64	0	19.92	19.96	19.85	1
			64	35	20.77	20.77	20.46	0
			64	69	19.64	19.59	19.55	1
		128	0	19.68	19.68	19.38	1	
		16QAM	1	1	19.73	19.92	19.74	1
		64QAM	1	1	18.37	17.81	17.67	2.5
256QAM	1	1	15.56	15.75	15.68	4.5		
CP-OFDM	QPSK	1	1	18.68	18.90	18.74	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					503 202	513 468	523 734	534 000	
					2 516.01 MHz	2 567.34 MHz	2 618.67 MHz	2 670.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.77	20.85	20.53	20.72	0
			1	53	20.70	20.05	20.88	20.33	0
			1	104	20.85	20.74	20.69	19.54	0
			50	0	19.80	19.92	19.67	19.51	0.5
			50	28	19.63	20.04	20.84	20.37	0
			50	56	19.75	19.96	19.77	19.60	0.5
			100	0	19.61	19.91	19.72	19.26	0.5
		QPSK	1	1	20.83	20.95	20.66	20.77	0
			1	53	19.66	20.06	20.81	20.41	0
			1	104	19.82	19.79	20.74	20.56	0
			50	0	19.80	19.92	19.75	19.85	1
			50	28	19.63	19.91	20.82	20.34	0
			50	56	19.70	19.95	19.78	19.87	1
			100	0	19.62	19.90	19.72	19.25	1
		16QAM	1	1	19.83	19.93	19.62	19.73	1
		64QAM	1	1	17.64	17.74	17.42	17.65	2.5
		256QAM	1	1	15.65	15.79	16.27	16.47	4.5
CP-OFDM	QPSK	1	1	18.80	18.90	18.72	18.72	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					502 200	510 402	518 598	526 800	534 996	
					2 511.00 MHz	2 552.01 MHz	2 592.99 MHz	2 634.00 MHz	2 674.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.61	20.71	20.88	20.55	20.42	0
			1	39	20.55	20.57	20.72	20.25	20.35	0
			1	76	20.39	20.55	20.71	20.35	20.36	0
			36	0	19.65	19.57	19.84	19.36	19.48	0.5
			36	21	20.49	20.41	20.70	20.36	20.28	0
			36	42	19.51	19.55	19.69	19.35	19.29	0.5
			75	0	19.39	19.54	19.72	19.24	19.26	0.5
		QPSK	1	1	20.67	20.73	20.98	20.57	20.36	0
			1	39	20.46	20.57	20.79	20.28	20.37	0
			1	76	20.48	20.64	20.74	20.30	20.36	0
			36	0	19.70	19.60	19.86	19.38	19.55	1
			36	21	20.49	20.45	20.74	20.40	20.24	0
			36	42	19.50	19.58	19.68	19.32	19.24	1
			75	0	19.33	19.56	19.76	19.22	19.33	1
		16QAM	1	1	19.76	19.80	19.98	19.55	19.66	1
		64QAM	1	1	17.56	17.53	17.80	17.45	17.43	2.5
		256QAM	1	1	15.55	15.53	15.78	15.31	15.43	4.5
CP-OFDM	QPSK	1	1	18.48	18.68	18.81	18.45	18.38	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					501 204	509 898	518 598	527 298	535 998	
					2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.59	20.61	20.87	20.71	20.47	0
			1	26	20.43	20.44	20.72	20.53	20.26	0
			1	49	20.40	20.54	20.71	20.48	20.37	0
			25	0	19.53	19.57	19.76	19.44	19.38	0.5
			25	13	20.39	20.52	20.72	20.54	20.41	0
			25	26	20.30	20.21	20.48	20.16	20.17	0.5
			50	0	19.51	19.42	19.70	19.51	19.21	0.5
		QPSK	1	1	20.55	20.59	20.82	20.63	20.47	0
			1	26	20.40	20.51	20.52	20.52	20.35	0
			1	49	20.40	20.63	20.61	20.54	20.33	0
			25	0	19.55	19.56	19.78	19.44	19.44	1
			25	13	20.36	20.57	20.74	20.46	20.50	0
			25	26	19.69	19.63	19.67	19.68	19.64	1
			50	0	19.44	19.44	19.73	19.47	19.16	1
		16QAM	1	1	19.74	19.67	19.91	19.63	19.48	1
		64QAM	1	1	17.37	17.57	17.68	17.38	17.23	2.5
		256QAM	1	1	15.53	15.61	15.78	15.49	15.42	4.5
		CP-OFDM	QPSK	1	1	18.46	18.63	18.79	18.54	18.46

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 700	509 652	518 598	527 550	536 496	
					2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.59	20.72	20.85	20.54	20.43	0
			1	19	20.57	20.52	20.77	20.42	20.36	0
			1	36	20.53	20.49	20.70	20.37	20.35	0
			18	0	19.51	19.66	19.83	19.35	19.38	0.5
			18	10	19.52	19.51	19.73	19.42	19.38	0
			18	20	20.12	20.17	20.45	20.02	20.04	0.5
			36	0	19.45	19.57	19.74	19.42	19.37	0.5
		QPSK	1	1	20.55	20.67	20.84	20.54	20.48	0
			1	19	20.59	20.45	20.77	20.43	20.28	0
			1	36	20.48	20.48	20.69	20.30	20.40	0
			18	0	19.55	19.71	19.76	19.38	19.38	1
			18	10	19.43	19.56	20.73	19.34	19.30	0
			18	20	19.71	19.63	19.68	19.70	19.63	1
			36	0	19.43	19.66	19.69	19.33	19.32	1
		16QAM	1	1	19.68	19.64	19.87	19.50	19.41	1
		64QAM	1	1	18.22	18.35	18.48	18.07	18.08	2.5
		256QAM	1	1	16.18	16.37	16.48	16.17	16.08	4.5
		CP-OFDM	QPSK	1	1	18.56	18.55	18.77	18.37	18.41

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 202	509 400	518 598	527 802	537 000	
					2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.53	20.55	20.80	20.47	20.39	0
			1	12	20.71	20.60	20.82	20.41	20.39	0
			1	22	20.45	20.56	20.72	20.28	20.35	0
			12	0	19.62	19.42	19.73	19.26	19.28	0.5
			12	6	19.43	19.49	19.72	19.30	19.25	0
			12	12	20.20	20.26	20.46	20.08	20.07	0.5
			24	0	19.51	19.49	19.73	19.31	19.39	0.5
		QPSK	1	1	20.54	20.61	20.81	20.43	20.45	0
			1	12	20.66	20.60	20.79	20.40	20.33	0
			1	22	20.50	20.65	20.69	20.19	20.37	0
			12	0	19.71	19.39	19.74	19.20	19.37	1
			12	6	20.45	20.43	20.72	20.34	20.19	0
			12	12	19.77	19.79	19.71	19.63	19.74	1
			24	0	19.58	19.43	19.69	19.33	19.41	1
	16QAM	1	1	19.52	19.57	19.77	19.36	19.40	1	
	64QAM	1	1	18.35	18.29	18.46	18.03	18.00	2.5	
	256QAM	1	1	15.54	15.35	15.68	15.28	15.19	4.5	
CP-OFDM	QPSK	1	1	18.48	18.49	18.77	18.31	18.28	1.5	

10.4.6 NR n41 (SA) (Power Class 3)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					518 598		
					2 592.99 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.74	0	
			1	137	17.64	0	
			1	271	17.61	0	
			135	0	17.83	0.5	
			135	69	17.59	0	
			135	138	17.65	0.5	
			270	0	17.52	0.5	
		QPSK	1	1	17.75	0	
			1	137	17.61	0	
			1	271	17.60	0	
			135	0	17.72	1	
			135	69	17.57	0	
			135	138	17.51	1	
			270	0	17.41	1	
		16QAM	1	1	17.50	1	
		64QAM	1	1	15.91	2.5	
256QAM	1	1	13.91	4.5			
CP-OFDM	QPSK	1	1	17.04	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					508 200	528 996	
					2 541.00 MHz	2 644.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.61	17.49	0
			1	123	17.87	17.60	0
			1	243	17.51	17.36	0
			120	0	17.42	17.26	0.5
			120	63	17.84	17.66	0
			120	125	17.75	17.60	0.5
			243	0	17.74	17.62	0.5
		QPSK	1	1	17.54	17.57	0
			1	123	17.23	17.59	0
			1	243	17.54	17.27	0
			120	0	17.31	17.26	1
			120	63	17.20	17.65	0
			120	125	17.66	17.67	1
			243	0	17.69	17.61	1
		16QAM	1	1	16.41	16.22	1
		64QAM	1	1	14.90	14.69	2.5
256QAM	1	1	13.92	13.69	4.5		
CP-OFDM	QPSK	1	1	16.92	16.76	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					507 204	529 998	
					2 536.02 MHz	2 649.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.66	17.51	0
			1	109	17.89	17.81	0
			1	215	17.84	17.68	0
			108	0	17.56	17.43	0.5
			108	55	17.78	17.67	0
			108	109	17.90	17.83	0.5
			216	0	17.72	17.62	0.5
		QPSK	1	1	17.58	17.45	0
			1	109	17.81	17.79	0
			1	215	17.82	17.67	0
			108	0	17.44	17.40	1
			108	55	17.74	17.59	0
			108	109	17.79	17.85	1
		216	0	17.64	17.65	1	
		16QAM	1	1	17.43	17.14	1
		64QAM	1	1	15.88	15.68	2.5
		256QAM	1	1	13.87	13.55	4.5
CP-OFDM	QPSK	1	1	16.89	16.57	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					506 202	531 000	
					2 531.01 MHz	2 655.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.86	17.70	0
			1	95	17.94	17.72	0
			1	188	18.79	18.58	0
			90	0	17.64	17.35	0.5
			90	50	17.82	17.53	0
			90	99	17.84	17.61	0.5
			180	0	17.70	17.41	0.5
		QPSK	1	1	17.52	17.79	0
			1	95	17.95	17.75	0
			1	188	17.94	18.50	0
			90	0	17.38	17.42	1
			90	50	17.68	17.55	0
			90	99	17.81	17.77	1
		180	0	17.66	17.37	1	
		16QAM	1	1	17.41	17.26	1
		64QAM	1	1	15.61	15.49	2.5
		256QAM	1	1	13.84	13.55	4.5
CP-OFDM	QPSK	1	1	16.88	16.59	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					505 200	518 598	531 996	
					2 526.00 MHz	2 592.99 MHz	2 659.98 MHz	
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.60	17.77	17.53	0
			1	81	17.69	17.80	17.55	0
			1	160	17.81	17.96	17.53	0
			81	0	17.57	17.80	17.28	0.5
			81	41	17.63	17.70	17.39	0
			81	81	17.84	18.07	17.57	0.5
		162	0	17.58	17.69	17.41	0.5	
		QPSK	1	1	17.73	17.84	17.41	0
			1	81	17.69	17.83	17.61	0
			1	160	17.82	17.92	17.60	0
			81	0	17.48	17.73	17.37	1
			81	41	17.65	17.79	17.39	0
			81	81	17.74	17.66	17.77	1
		162	0	17.51	17.72	17.43	1	
		16QAM	1	1	17.61	17.27	17.38	1
		64QAM	1	1	16.01	15.53	15.77	2.5
		256QAM	1	1	14.00	13.65	13.76	4.5
CP-OFDM	QPSK	1	1	16.76	16.38	16.55	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					504 204	518 598	532 998	
					2 521.02 MHz	2 592.99 MHz	2 664.99 MHz	
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.55	17.68	17.54	0
			1	67	17.55	17.75	17.49	0
			1	131	17.77	17.85	17.65	0
			64	0	17.79	17.96	17.73	0.5
			64	35	17.55	17.69	17.40	0
			64	69	17.49	17.73	17.35	0.5
		128	0	17.46	17.63	17.32	0.5	
		QPSK	1	1	17.49	17.61	17.52	0
			1	67	17.56	17.81	17.44	0
			1	131	17.73	17.86	17.62	0
			64	0	17.69	17.97	17.80	1
			64	35	17.55	17.60	17.49	0
			64	69	17.42	17.48	17.38	1
		128	0	17.44	17.58	17.39	1	
		16QAM	1	1	17.52	17.12	17.34	1
		64QAM	1	1	15.94	15.55	15.62	2.5
		256QAM	1	1	13.89	13.56	13.63	4.5
CP-OFDM	QPSK	1	1	17.00	16.68	16.68	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					503 202	513 468	523 734	534 000	
					2 516.01 MHz	2 567.34 MHz	2 618.67 MHz	2 670.00 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.65	17.88	17.50	17.54	0
			1	53	17.60	17.75	17.55	17.37	0
			1	104	17.70	17.76	17.64	17.46	0
			50	0	17.74	17.90	17.62	17.50	0.5
			50	28	17.57	17.63	17.53	17.30	0
			50	56	17.53	17.72	17.46	17.25	0.5
		100	0	17.58	17.72	17.46	17.29	0.5	
		QPSK	1	1	17.60	17.81	17.47	17.63	0
			1	53	17.59	17.80	17.56	17.45	0
			1	104	17.60	17.79	17.72	17.38	0
			50	0	17.64	17.89	17.58	17.56	1
			50	28	17.56	17.68	17.49	17.24	0
			50	56	17.53	17.51	17.57	17.52	1
		100	0	17.52	17.67	17.42	17.36	1	
		16QAM	1	1	17.59	17.20	17.36	17.30	1
		64QAM	1	1	16.00	15.58	15.80	15.79	2.5
		256QAM	1	1	14.00	13.69	13.82	13.76	4.5
		CP-OFDM	QPSK	1	1	17.02	16.58	16.71	16.84

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					502 200	510 402	518 598	526 800	534 996	
					2 511.00 MHz	2 552.01 MHz	2 592.99 MHz	2 634.00 MHz	2 674.98 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.75	17.60	17.51	17.87	17.41	0
			1	39	17.67	17.66	17.52	17.80	17.29	0
			1	76	17.56	17.56	17.45	17.65	17.09	0
			36	0	17.74	17.65	17.53	17.98	17.30	0.5
			36	21	17.60	17.48	17.41	17.78	17.62	0
			36	42	17.50	17.40	17.23	17.67	17.32	0.5
		75	0	17.56	17.46	17.38	17.74	17.22	0.5	
		QPSK	1	1	17.74	17.69	17.49	17.81	17.04	0
			1	39	17.62	17.61	17.59	17.80	17.76	0
			1	76	17.54	17.54	17.51	17.57	17.38	0
			36	0	17.63	17.58	17.54	17.97	16.85	1
			36	21	17.55	17.49	17.49	17.82	17.69	0
			36	42	17.36	17.28	17.27	17.29	17.36	1
		75	0	17.46	17.41	17.37	17.75	17.21	1	
		16QAM	1	1	17.63	17.36	17.43	17.24	17.26	1
		64QAM	1	1	16.06	15.85	15.77	15.75	15.58	2.5
		256QAM	1	1	14.01	13.75	13.85	13.69	13.63	4.5
		CP-OFDM	QPSK	1	1	17.04	16.80	16.86	16.67	16.59

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					501 204	509 898	518 598	527 298	535 998	
					2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.72	17.83	17.72	17.60	17.31	0
			1	26	17.65	17.85	17.63	17.42	17.21	0
			1	49	17.50	17.72	17.47	17.21	17.31	0
			25	0	17.75	17.98	17.66	17.47	17.19	0.5
			25	13	17.66	17.74	17.58	17.45	17.14	0
			25	26	17.55	17.70	17.46	17.32	17.09	0.5
			50	0	17.65	17.88	17.50	17.49	17.07	0.5
		QPSK	1	1	17.75	17.79	17.70	17.55	17.22	0
			1	26	17.67	17.84	17.59	17.34	17.29	0
			1	49	17.49	17.81	17.53	17.28	17.28	0
			25	0	17.64	17.94	17.61	17.44	17.15	1
			25	13	17.66	17.69	17.63	17.36	17.21	0
			25	26	17.43	17.47	17.44	17.48	17.34	1
		16QAM	50	0	17.56	17.94	17.52	17.42	17.12	1
			1	1	17.65	17.20	17.31	17.53	17.30	1
			1	1	16.05	15.60	15.80	15.88	15.64	2.5
		256QAM	1	1	14.05	13.66	13.76	13.76	13.56	4.5
CP-OFDM	QPSK	1	1	17.11	16.71	16.78	16.93	16.75	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 700	509 652	518 598	527 550	536 496	
					2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.74	17.66	17.88	17.45	17.34	0
			1	19	17.79	17.69	17.88	17.42	17.43	0
			1	36	17.59	17.53	17.68	17.29	17.20	0
			18	0	17.78	17.62	17.93	17.44	17.40	0.5
			18	10	17.73	17.73	17.88	17.52	17.29	0
			18	20	17.64	17.56	17.71	17.42	17.22	0.5
			36	0	17.72	17.60	17.81	17.36	17.27	0.5
		QPSK	1	1	17.64	17.75	17.90	17.54	17.35	0
			1	19	17.74	17.64	17.82	17.37	17.49	0
			1	36	17.59	17.62	17.64	17.28	17.24	0
			18	0	17.66	17.57	17.85	17.36	17.46	1
			18	10	17.72	17.67	17.91	17.58	17.22	0
			18	20	17.49	17.45	17.51	17.53	17.36	1
		16QAM	36	0	17.61	17.58	17.90	17.33	17.29	1
			1	1	17.64	17.40	17.19	17.33	17.25	1
			1	1	16.09	15.80	15.62	15.62	15.65	2.5
		256QAM	1	1	14.08	13.81	13.70	13.60	13.74	4.5
CP-OFDM	QPSK	1	1	17.00	16.68	16.51	16.60	16.73	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 202	509 400	518 598	527 802	537 000	
					2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.73	17.61	17.79	17.45	17.24	0
			1	12	17.82	17.73	18.05	17.44	17.26	0
			1	22	17.74	17.67	17.95	17.52	17.16	0
			12	0	17.70	17.60	17.83	17.35	17.14	0.5
			12	6	17.71	17.64	17.81	17.49	17.13	0
			12	12	17.70	17.56	17.86	17.47	17.29	0.5
			24	0	17.74	17.65	17.82	17.47	17.23	0.5
		QPSK	1	1	17.78	17.67	17.72	17.36	17.17	0
			1	12	17.84	17.76	18.03	17.47	17.32	0
			1	22	17.72	17.71	17.95	17.45	17.22	0
			12	0	17.65	17.57	17.81	17.35	17.10	1
			12	6	17.78	17.73	17.73	17.50	17.14	0
			12	12	17.62	17.54	17.59	17.58	17.63	1
			24	0	17.65	17.56	17.83	17.41	17.30	1
	16QAM	1	1	17.68	17.40	17.23	17.34	17.30	1	
	64QAM	1	1	16.08	15.76	15.63	15.62	15.60	2.5	
	256QAM	1	1	14.28	14.09	13.86	13.79	13.86	4.5	
	CP-OFDM	QPSK	1	1	17.05	16.86	16.57	16.60	16.68	1.5

10.4.7 NR n48 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					638 000	641 666	645 332	
					3 570.00 MHz	3 624.99 MHz	3 679.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.10	16.60	16.76	0
			1	53	16.83	16.61	16.72	0
			1	104	16.62	16.55	17.26	0
			50	0	16.99	16.64	16.91	0
			50	28	16.77	16.63	17.20	0
			50	56	16.60	16.59	17.32	0
		100	0	16.76	16.61	17.17	0	
		QPSK	1	1	16.58	16.71	16.70	0
			1	53	16.36	16.72	17.25	0
			1	104	16.12	16.71	17.27	0
			50	0	16.48	16.67	16.89	0
			50	28	16.26	16.68	17.18	0
			50	56	16.11	16.56	17.34	0
		100	0	16.26	16.58	17.13	0	
		16QAM	1	1	16.59	16.72	16.75	0
64QAM	1	1	15.02	15.01	15.16	1.5		
256QAM	1	1	13.01	13.10	13.13	3.5		
CP-OFDM	QPSK	1	1	16.07	16.04	16.17	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 334	640 222	64 3112	646 000	
					3 560.01 MHz	3 603.33 MHz	3 646.68 MHz	3 690.00 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.76	16.42	16.22	16.99	0
			1	26	16.67	16.28	16.15	16.86	0
			1	49	16.46	16.09	15.92	16.62	0
			25	0	16.69	16.32	16.15	16.93	0
			25	13	16.66	16.28	16.17	16.75	0
			25	26	16.56	16.24	16.11	16.80	0
		50	0	16.70	16.32	16.14	16.80	0	
		QPSK	1	1	16.77	16.44	16.15	17.06	0
			1	26	16.63	16.25	16.13	16.77	0
			1	49	16.44	16.03	15.88	16.61	0
			25	0	16.71	16.26	16.21	17.00	0
			25	13	16.62	16.27	16.21	16.81	0
			25	26	16.52	16.46	16.56	16.55	0
		50	0	16.64	16.30	16.07	16.80	0	
		16QAM	1	1	16.74	16.25	16.38	16.40	0
		64QAM	1	1	15.22	14.74	14.90	14.90	1.5
		256QAM	1	1	13.20	12.85	12.84	12.76	3.5
		CP-OFDM	QPSK	1	1	16.25	15.88	15.86	15.92

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 168	640 166	643 166	646 166	
					3 557.52 MHz	3 602.49 MHz	3 647.49 MHz	3 692.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.73	16.36	16.31	16.98	0
			1	19	16.68	16.46	16.41	16.89	0
			1	36	16.46	16.17	16.10	16.62	0
			18	0	16.75	16.47	16.36	16.95	0
			18	10	16.60	16.36	16.32	16.83	0
			18	20	16.64	16.38	16.31	16.88	0
		36	0	16.69	16.49	16.48	16.85	0	
		QPSK	1	1	16.85	16.56	16.50	16.77	0
			1	19	16.76	16.42	16.40	16.88	0
			1	36	16.61	16.16	16.19	16.61	0
			18	0	16.73	16.44	16.37	17.02	0
			18	10	16.70	16.38	16.39	16.77	0
			18	20	16.62	16.54	16.55	16.54	0
		36	0	16.68	16.52	16.47	16.87	0	
		16QAM	1	1	15.80	15.63	15.78	15.58	0
		64QAM	1	1	15.17	14.91	14.85	14.76	1.5
		256QAM	1	1	13.22	13.00	12.90	12.91	3.5
		CP-OFDM	QPSK	1	1	16.25	16.02	15.82	15.83

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 000	640 110	643 222	646 332	
					3 555.00 MHz	3 601.65 MHz	3 648.33 MHz	3 694.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.77	16.45	16.35	17.07	0
			1	12	16.79	16.64	16.56	16.86	0
			1	22	16.71	16.44	16.50	16.85	0
			12	0	16.76	16.47	16.37	16.96	0
			12	6	16.73	16.58	16.47	16.93	0
			12	12	16.72	16.49	16.48	16.90	0
		24	0	16.71	16.58	16.33	16.83	0	
		QPSK	1	1	16.81	16.55	16.50	16.94	0
			1	12	16.80	16.62	16.58	16.84	0
			1	22	16.70	16.39	16.59	16.94	0
			12	0	16.74	16.43	16.38	16.90	0
			12	6	16.75	16.59	16.54	16.84	0
			12	12	16.70	16.73	16.76	16.75	0
		24	0	16.71	16.56	16.34	16.81	0	
		16QAM	1	1	16.84	16.55	16.44	16.91	0
		64QAM	1	1	15.24	15.12	14.82	14.84	1.5
		256QAM	1	1	13.27	13.06	12.81	12.92	3.5
		CP-OFDM	QPSK	1	1	16.28	16.11	15.83	15.90

10.4.8 NR n48 (SA) (SRS#1)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					638 000	641 666	645 332	
					3 570.00 MHz	3 624.99 MHz	3 679.98 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	6.92	6.86	6.25	0
			1	53	6.64	6.70	6.59	0
			1	104	6.32	6.50	6.41	0
			50	0	6.82	6.81	6.35	0
			50	28	6.58	6.68	6.51	0
			50	56	6.36	6.57	6.58	0
		100	0	6.58	6.65	6.51	0	
		QPSK	1	1	6.93	6.88	6.60	0
			1	53	6.62	6.73	6.23	0
			1	104	6.34	6.49	6.43	0
			50	0	6.81	6.80	6.35	0
			50	28	6.57	6.70	6.54	0
			50	56	6.36	6.57	6.59	0
		100	0	6.66	6.56	6.52	0	
		16QAM	1	1	6.64	6.53	5.99	0
		64QAM	1	1	4.89	4.90	4.45	1.5
256QAM	1	1	2.95	2.89	2.71	3.5		
CP-OFDM	QPSK	1	1	5.91	5.89	5.69	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 334	640 222	64 3112	646 000	
					3 560.01 MHz	3 603.33 MHz	3 646.68 MHz	3 690.00 MHz	
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	6.85	6.75	6.52	6.12	0
			1	26	6.68	6.82	6.54	6.76	0
			1	49	6.30	6.63	6.32	6.21	0
			25	0	6.76	6.71	6.51	6.33	0
			25	13	6.74	6.78	6.40	6.60	0
			25	26	6.59	6.62	6.65	6.27	0
		50	0	6.75	6.67	6.50	6.34	0	
		QPSK	1	1	6.82	6.78	6.52	6.18	0
			1	26	6.75	6.78	6.55	6.78	0
			1	49	6.39	6.65	6.34	6.22	0
			25	0	6.85	6.78	6.51	6.40	0
			25	13	6.70	6.78	6.47	6.70	0
			25	26	6.55	6.72	6.61	6.35	0
		50	0	6.70	6.77	6.60	6.29	0	
		16QAM	1	1	6.82	6.66	6.42	5.73	0
		64QAM	1	1	5.13	5.00	4.86	4.24	1.5
256QAM	1	1	3.15	3.03	2.90	2.56	3.5		
CP-OFDM	QPSK	1	1	6.06	6.06	5.89	5.58	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 168	640 166	643 166	646 166	
					3 557.52 MHz	3 602.49 MHz	3 647.49 MHz	3 692.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.70	6.79	6.55	6.18	0
			1	19	6.80	6.77	6.46	6.70	0
			1	36	6.30	6.66	6.34	6.16	0
			18	0	6.80	6.81	6.47	6.43	0
			18	10	6.59	6.76	6.41	6.63	0
			18	20	6.53	6.61	6.62	6.28	0
		36	0	6.65	6.66	6.49	6.23	0	
		QPSK	1	1	6.80	6.79	6.50	6.17	0
			1	19	6.76	6.78	6.52	6.74	0
			1	36	6.37	6.63	6.33	6.21	0
			18	0	6.83	6.78	6.47	6.38	0
			18	10	6.68	6.79	6.45	6.69	0
			18	20	6.51	6.70	6.58	6.36	0
		36	0	6.61	6.75	6.54	6.33	0	
		16QAM	1	1	6.79	6.54	6.41	5.78	0
		64QAM	1	1	5.17	5.02	4.81	4.22	1.5
	256QAM	1	1	3.20	3.04	2.98	2.50	3.5	
CP-OFDM	QPSK	1	1	6.06	6.06	5.88	5.64	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 000	640 110	643 222	646 332	
					3 555.00 MHz	3 601.65 MHz	3 648.33 MHz	3 694.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.79	6.73	6.37	6.06	0
			1	12	6.74	6.77	6.48	6.69	0
			1	22	6.45	6.67	5.35	6.08	0
			12	0	6.81	6.79	6.41	6.34	0
			12	6	6.59	6.74	6.40	6.60	0
			12	12	6.52	6.68	6.63	6.32	0
		24	0	6.48	6.59	6.58	6.26	0	
		QPSK	1	1	6.82	6.78	6.47	6.15	0
			1	12	6.81	6.79	6.54	6.77	0
			1	22	6.42	6.63	5.35	6.18	0
			12	0	6.81	6.75	6.49	6.41	0
			12	6	6.66	6.79	6.49	6.67	0
			12	12	6.52	6.69	6.61	6.36	0
		24	0	6.53	6.69	6.53	6.34	0	
		16QAM	1	1	6.76	6.55	6.40	5.82	0
		64QAM	1	1	5.06	4.96	4.84	4.31	1.5
	256QAM	1	1	3.06	3.16	2.95	2.57	3.5	
CP-OFDM	QPSK	1	1	6.08	6.17	6.01	5.54	0.5	

10.4.9 NR n48 (SA) (SRS#2)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					638 000	641 666	645 332	
					3 570.00 MHz	3 624.99 MHz	3 679.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.73	6.90	6.70	0
			1	53	6.79	6.83	6.19	0
			1	104	6.54	6.69	6.13	0
			50	0	6.07	6.83	6.89	0
			50	28	6.80	6.77	6.13	0
			50	56	6.54	6.69	6.23	0
		100	0	6.78	6.76	6.07	0	
		QPSK	1	1	6.81	6.92	6.73	0
			1	53	6.74	6.85	6.22	0
			1	104	6.55	6.71	6.14	0
			50	0	6.76	6.88	6.83	0
			50	28	6.02	6.79	6.13	0
			50	56	6.56	6.71	6.24	0
		100	0	6.77	6.79	6.09	0	
		16QAM	1	1	6.15	6.90	6.76	0
		64QAM	1	1	5.07	4.86	4.71	1.5
256QAM	1	1	3.09	2.89	2.79	3.5		
CP-OFDM	QPSK	1	1	5.89	6.13	5.79	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 334	640 222	64 3112	646 000	
					3 560.01 MHz	3 603.33 MHz	3 646.68 MHz	3 690.00 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	5.98	6.44	6.85	6.80	0
			1	26	6.08	6.37	6.09	6.16	0
			1	49	6.92	6.32	6.90	6.26	0
			25	0	6.29	6.57	5.86	6.10	0
			25	13	6.10	6.41	5.97	6.23	0
			25	26	6.86	6.34	5.95	6.26	0
		50	0	6.05	6.43	5.97	6.01	0	
		QPSK	1	1	6.05	6.43	6.87	6.85	0
			1	26	6.16	6.44	6.04	6.22	0
			1	49	6.87	6.37	6.89	6.27	0
			25	0	6.31	6.58	5.87	6.12	0
			25	13	6.11	6.40	5.95	6.23	0
			25	26	6.86	6.40	5.96	6.21	0
		50	0	6.11	6.51	5.97	6.07	0	
		16QAM	1	1	6.14	6.84	5.98	6.70	0
		64QAM	1	1	5.05	4.78	4.84	4.70	1.5
256QAM	1	1	3.01	2.81	2.88	2.71	3.5		
CP-OFDM	QPSK	1	1	6.11	5.83	5.88	5.74	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 168	640 166	643 166	646 166	
					3 557.52 MHz	3 602.49 MHz	3 647.49 MHz	3 692.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	5.99	6.33	6.83	6.78	0
			1	19	6.14	6.45	5.99	6.13	0
			1	36	6.79	6.29	6.93	6.18	0
			18	0	6.40	6.52	5.82	6.13	0
			18	10	6.12	6.32	5.84	6.20	0
			18	20	6.79	6.37	5.99	6.19	0
			36	0	6.14	6.47	5.99	5.99	0
		QPSK	1	1	6.04	6.37	6.82	6.83	0
			1	19	6.10	6.43	6.04	6.19	0
			1	36	6.83	6.32	6.93	6.23	0
			18	0	6.35	6.50	5.80	6.08	0
			18	10	6.08	6.35	5.92	6.18	0
			18	20	6.81	6.37	5.95	6.22	0
			36	0	6.16	6.51	5.99	6.05	0
		16QAM	1	1	6.13	6.83	5.92	6.68	0
		64QAM	1	1	5.05	4.79	4.82	4.67	1.5
		256QAM	1	1	3.01	2.81	2.90	2.77	3.5
CP-OFDM	QPSK	1	1	6.07	5.82	5.92	5.71	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 000	640 110	643 222	646 332	
					3 555.00 MHz	3 601.65 MHz	3 648.33 MHz	3 694.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	5.99	6.27	6.84	6.80	0
			1	12	6.06	6.48	6.04	6.18	0
			1	22	6.84	6.35	6.79	6.32	0
			12	0	6.20	6.54	5.82	6.12	0
			12	6	6.02	6.36	6.00	6.18	0
			12	12	6.76	6.28	5.99	6.13	0
			24	0	6.09	6.39	5.89	6.14	0
		QPSK	1	1	5.99	6.35	6.86	6.79	0
			1	12	6.08	6.46	6.01	6.25	0
			1	22	6.82	6.36	6.87	6.28	0
			12	0	6.27	6.55	5.90	6.13	0
			12	6	6.06	6.41	6.00	6.18	0
			12	12	6.81	6.32	5.99	6.15	0
			24	0	6.06	6.45	5.94	6.09	0
		16QAM	1	1	6.13	6.87	5.96	6.70	0
		64QAM	1	1	5.00	4.84	4.85	4.64	1.5
		256QAM	1	1	3.02	2.83	2.86	2.74	3.5
CP-OFDM	QPSK	1	1	6.05	5.82	5.91	5.78	0.5	

10.4.10 NR n48 (SA) (SRS#3)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					638 000	641 666	645 332	
					3 570.00 MHz	3 624.99 MHz	3 679.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.81	10.55	10.45	0
			1	53	10.59	10.56	10.91	0
			1	104	10.48	10.46	10.78	0
			50	0	10.70	10.53	10.62	0
			50	28	10.53	10.51	10.82	0
			50	56	10.42	10.48	10.90	0
		100	0	10.53	10.44	10.73	0	
		QPSK	1	1	10.86	10.56	10.46	0
			1	53	10.60	10.58	10.93	0
			1	104	10.53	10.51	10.80	0
			50	0	10.48	10.51	10.63	0
			50	28	10.57	10.53	10.86	0
			50	56	10.73	10.71	10.92	0
		100	0	10.58	10.48	10.79	0	
		16QAM	1	1	10.79	10.58	10.47	0
		64QAM	1	1	8.69	8.51	9.40	1.5
256QAM	1	1	6.71	6.51	7.40	3.5		
CP-OFDM	QPSK	1	1	9.43	9.54	9.76	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 334	640 222	64 3112	646 000	
					3 560.01 MHz	3 603.33 MHz	3 646.68 MHz	3 690.00 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.73	10.55	10.54	10.38	0
			1	26	10.52	10.56	10.70	10.86	0
			1	49	10.42	10.45	10.71	10.78	0
			25	0	10.68	10.53	10.60	10.61	0
			25	13	10.53	10.43	10.61	10.72	0
			25	26	10.32	10.47	10.66	10.84	0
		50	0	10.43	10.34	10.64	10.69	0	
		QPSK	1	1	10.76	10.54	10.65	10.40	0
			1	26	10.58	10.56	10.78	10.85	0
			1	49	10.50	10.50	10.66	10.78	0
			25	0	10.67	10.48	10.65	10.62	0
			25	13	10.53	10.48	10.68	10.85	0
			25	26	10.43	10.51	10.74	10.92	0
		50	0	10.55	10.45	10.64	10.69	0	
		16QAM	1	1	10.79	10.54	10.58	10.38	0
		64QAM	1	1	8.60	8.50	8.61	9.30	1.5
256QAM	1	1	6.70	6.41	6.54	7.36	3.5		
CP-OFDM	QPSK	1	1	9.71	9.48	9.55	9.40	0.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR	
					637 168	640 166	643 166	646 166		
					3 557.52 MHz	3 602.49 MHz	3 647.49 MHz	3 692.49 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.72	10.50	10.51	10.41	0	
			1	19	10.58	10.47	10.69	10.88	0	
			1	36	10.48	10.45	10.70	10.73	0	
			18	0	10.66	10.49	10.65	10.57	0	
			18	10	10.48	10.47	10.70	10.73	0	
			18	20	10.39	10.41	10.75	10.80	0	
			36	0	10.45	10.38	10.60	10.68	0	
		QPSK	1	1	10.79	10.48	10.59	10.44	0	
			1	19	10.55	10.52	10.72	10.83	0	
			1	36	10.49	10.45	10.72	10.79	0	
			18	0	10.67	10.55	10.70	10.54	0	
			18	10	10.53	10.50	10.71	10.86	0	
			18	20	10.45	10.49	10.73	10.86	0	
		16QAM	1	1	10.70	10.53	10.65	10.41	0	
			64QAM	1	1	8.67	8.41	8.52	9.31	1.5
			256QAM	1	1	6.64	6.44	6.63	7.35	3.5
		CP-OFDM	QPSK	1	1	9.71	9.45	9.55	9.40	0.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR	
					637 000	640 110	643 222	646 332		
					3 555.00 MHz	3 601.65 MHz	3 648.33 MHz	3 694.98 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.74	10.55	10.59	10.39	0	
			1	12	10.59	10.48	10.70	10.83	0	
			1	22	10.46	10.44	10.67	10.76	0	
			12	0	10.62	10.50	10.62	10.53	0	
			12	6	10.52	10.42	10.67	10.80	0	
			12	12	10.38	10.43	10.72	10.87	0	
			24	0	10.50	10.39	10.58	10.68	0	
		QPSK	1	1	10.78	10.56	10.57	10.44	0	
			1	12	10.56	10.60	10.74	10.92	0	
			1	22	10.50	10.42	10.72	10.74	0	
			12	0	10.72	10.45	10.70	10.62	0	
			12	6	10.48	10.50	10.68	10.81	0	
			12	12	10.44	10.43	10.75	10.85	0	
		16QAM	1	1	10.74	10.53	10.55	10.41	0	
			64QAM	1	1	8.69	8.48	8.58	9.35	1.5
			256QAM	1	1	6.67	6.42	6.56	7.31	3.5
		CP-OFDM	QPSK	1	1	9.74	9.46	9.57	9.36	0.5

10.4.11 NR n66 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.82	0	
			1	108	25.20	0	
			1	214	24.92	0	
			108	0	24.65	0.5	
			108	54	25.22	0	
			108	108	24.47	0.5	
			216	0	24.74	0.5	
		QPSK	1	1	24.81	0	
			1	108	25.21	0	
			1	214	24.90	0	
			108	0	24.17	1	
			108	54	25.27	0	
			108	108	23.92	1	
			216	0	24.14	1	
	16QAM	1	1	23.80	1		
	64QAM	1	1	22.33	2.5		
	256QAM	1	1	20.17	4.5		
CP-OFDM	QPSK	1	1	23.25	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	25.07	0	
			1	80	25.21	0	
			1	158	24.93	0	
			80	0	24.75	0.5	
			80	40	25.35	0	
			80	80	24.58	0.5	
			160	0	24.82	0.5	
		QPSK	1	1	25.02	0	
			1	80	25.28	0	
			1	158	24.94	0	
			80	0	24.16	1	
			80	40	25.37	0	
			80	80	24.10	1	
			160	0	24.23	1	
	16QAM	1	1	24.10	1		
	64QAM	1	1	22.71	2.5		
	256QAM	1	1	20.34	4.5		
CP-OFDM	QPSK	1	1	23.48	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	25.06	0	
			1	67	25.12	0	
			1	131	24.92	0	
			64	0	24.76	0.5	
			64	35	25.28	0	
			64	69	24.59	0.5	
			128	0	24.76	0.5	
		QPSK	1	1	25.14	0	
			1	67	25.26	0	
			1	131	24.97	0	
			64	0	24.30	1	
			64	35	25.29	0	
			64	69	24.15	1	
			128	0	24.25	1	
		16QAM	1	1	24.19	1	
		64QAM	1	1	22.40	2.5	
256QAM	1	1	20.47	4.5			
CP-OFDM	QPSK	1	1	23.59	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR	
					344 000	349 000	354 000		
					1 720.0 MHz	1 745.0 MHz	1 770.0 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.56	24.79	24.94	0	
			1	53	24.77	25.33	24.92	0	
			1	104	24.89	25.02	24.75	0	
			50	0	24.51	24.86	24.63	0.5	
			50	28	25.07	25.27	25.03	0	
			50	56	24.82	24.73	24.82	0.5	
			100	0	24.57	24.83	24.45	0.5	
		QPSK	1	1	24.79	24.86	25.12	0	
			1	53	25.13	25.35	24.94	0	
			1	104	25.03	24.97	24.83	0	
			50	0	24.06	24.29	24.19	1	
			50	28	24.99	25.30	25.00	0	
			50	56	24.16	24.20	24.17	1	
			100	0	24.11	24.32	23.95	1	
		16QAM	1	1	24.05	24.12	24.09	1	
		64QAM	1	1	22.70	22.60	22.84	2.5	
		256QAM	1	1	20.69	20.67	20.77	4.5	
		CP-OFDM	QPSK	1	1	23.63	23.58	23.65	1.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					343 500	349 000	354 500	
					1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.63	24.91	24.99	0
			1	40	24.69	25.16	24.73	0
			1	77	24.96	25.04	24.81	0
			36	0	24.41	24.79	24.61	0.5
			36	22	25.02	25.24	24.93	0
			36	43	24.91	24.68	24.75	0.5
			75	0	24.51	24.81	24.35	0.5
		QPSK	1	1	24.69	24.75	24.89	0
			1	40	25.11	25.17	24.95	0
			1	77	25.20	25.10	24.91	0
			36	0	24.14	24.32	24.21	1
			36	22	25.07	25.26	24.93	0
			36	43	24.49	24.14	24.18	1
			75	0	24.08	24.28	24.01	1
		16QAM	1	1	23.86	23.98	24.01	1
		64QAM	1	1	22.66	22.57	22.87	2.5
		256QAM	1	1	20.41	20.36	20.46	4.5
CP-OFDM	QPSK	1	1	23.66	23.66	23.80	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					343 000	349 000	355 000	
					1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	25.09	25.31	25.39	0
			1	26	24.75	25.31	24.80	0
			1	50	24.96	25.13	24.81	0
			25	0	24.28	24.72	24.63	0.5
			25	14	24.92	25.20	24.85	0
			25	27	24.75	24.73	24.80	0.5
			50	0	24.45	24.78	24.39	0.5
		QPSK	1	1	25.19	25.23	25.42	0
			1	26	25.22	25.26	24.96	0
			1	50	25.21	25.12	24.94	0
			25	0	23.90	24.21	24.06	1
			25	14	24.96	25.22	24.85	0
			25	27	24.11	24.17	24.19	1
			50	0	23.94	24.13	23.85	1
		16QAM	1	1	24.14	24.26	24.20	1
		64QAM	1	1	22.61	22.56	22.78	2.5
		256QAM	1	1	20.60	20.57	20.72	4.5
CP-OFDM	QPSK	1	1	23.63	23.62	23.66	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR	
					342 500	349 000	355 500		
					1 712.5 MHz	1 745.0 MHz	1 777.5 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.73	24.97	25.02	0	
			1	13	24.41	24.98	24.54	0	
			1	23	24.89	25.01	24.76	0	
			12	0	24.13	24.59	24.42	0.5	
			12	7	24.84	25.08	24.76	0	
			12	13	24.91	24.68	24.80	0.5	
			25	0	24.35	24.63	24.21	0.5	
		QPSK	1	1	25.17	25.21	25.38	0	
			1	13	24.96	25.12	24.86	0	
			1	23	25.26	25.12	25.04	0	
			12	0	23.86	24.15	23.98	1	
			12	7	24.81	25.12	24.83	0	
			12	13	24.37	24.09	24.07	1	
			25	0	23.94	24.17	23.91	1	
		16QAM	1	1	23.84	23.96	23.93	1	
		64QAM	1	1	22.57	22.45	22.74	2.5	
		256QAM	1	1	20.42	20.39	20.45	4.5	
		CP-OFDM	QPSK	1	1	23.76	23.62	23.76	1.5

10.4.12 NR n71 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					136 100		
					680.5 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.88	0	
			1	53	23.90	0	
			1	104	23.79	0	
			50	0	23.41	0.5	
			50	28	23.84	0	
			50	56	23.38	0.5	
			100	0	23.36	0.5	
		QPSK	1	1	23.91	0	
			1	53	23.94	0	
			1	104	23.80	0	
			50	0	22.93	1	
			50	28	23.86	0	
			50	56	22.90	1	
			100	0	22.82	1	
	16QAM	1	1	23.10	1		
	64QAM	1	1	21.53	2.5		
256QAM	1	1	19.53	4.5			
CP-OFDM	QPSK	1	1	22.38	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					136 100		
					680.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.97	0	
			1	40	23.75	0	
			1	77	23.90	0	
			36	0	23.40	0.5	
			36	22	23.94	0	
			36	43	23.42	0.5	
			75	0	23.43	0.5	
		QPSK	1	1	24.02	0	
			1	40	23.88	0	
			1	77	23.93	0	
			36	0	23.01	1	
			36	22	23.96	0	
			36	43	23.04	1	
			75	0	22.95	1	
	16QAM	1	1	22.84	1		
	64QAM	1	1	21.62	2.5		
256QAM	1	1	19.41	4.5			
CP-OFDM	QPSK	1	1	22.54	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					133 600	136 100	138 600	
					668.0 MHz	680.5 MHz	693.0 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.32	23.90	23.88	0
			1	26	24.30	24.10	23.99	0
			1	50	24.06	23.97	23.88	0
			25	0	23.73	23.44	23.43	0.5
			25	14	24.15	23.91	23.91	0
			25	27	23.56	23.47	23.42	0.5
			50	0	23.69	23.49	23.41	0.5
		QPSK	1	1	24.33	24.02	23.85	0
			1	26	24.21	24.00	23.92	0
			1	50	24.12	24.01	23.82	0
			25	0	23.26	23.01	22.95	1
			25	14	24.16	23.96	23.97	0
			25	27	23.10	22.98	22.89	1
			50	0	23.13	23.01	22.92	1
		16QAM	1	1	23.25	23.17	23.03	1
		64QAM	1	1	21.89	21.36	21.46	2.5
		256QAM	1	1	19.82	19.37	19.26	4.5
		CP-OFDM	QPSK	1	1	22.79	22.55	22.42

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					133 100	136 100	139 100	
					665.5 MHz	680.5 MHz	695.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.28	23.99	23.98	0
			1	13	24.17	23.85	23.84	0
			1	23	24.21	24.00	23.99	0
			12	0	23.79	23.45	23.46	0.5
			12	7	24.27	23.88	23.99	0
			12	13	23.73	23.41	23.43	0.5
			25	0	23.73	23.50	23.47	0.5
		QPSK	1	1	24.35	23.94	24.03	0
			1	13	24.17	23.79	23.82	0
			1	23	24.15	23.98	23.89	0
			12	0	23.30	22.96	23.06	1
			12	7	24.28	23.96	24.01	0
			12	13	23.24	22.92	23.01	1
			25	0	23.25	22.91	23.05	1
		16QAM	1	1	23.42	23.01	22.81	1
		64QAM	1	1	21.83	21.65	21.49	2.5
		256QAM	1	1	19.69	19.48	19.48	4.5
		CP-OFDM	QPSK	1	1	22.81	22.41	22.51

10.4.13 NR n77 (SA) (lower)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.90	0	
			1	137	20.89	0	
			1	271	20.90	0	
			135	0	20.87	0.5	
			135	69	20.81	0	
			135	138	20.69	0.5	
			270	0	20.55	0.5	
		QPSK	1	1	20.91	0	
			1	137	20.77	0	
			1	271	20.82	0	
			135	0	20.30	1	
			135	69	20.78	0	
			135	138	20.18	1	
			270	0	20.03	1	
		16QAM	1	1	20.33	1	
		64QAM	1	1	18.76	2.5	
		256QAM	1	1	16.75	4.5	
CP-OFDM	QPSK	1	1	19.74	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.59	0	
			1	123	20.69	0	
			1	243	20.17	0	
			120	0	20.21	0.5	
			120	63	20.64	0	
			120	125	20.63	0.5	
			243	0	20.38	0.5	
		QPSK	1	1	20.66	0	
			1	123	20.74	0	
			1	243	20.14	0	
			120	0	19.73	1	
			120	63	20.59	0	
			120	125	20.01	1	
			243	0	19.84	1	
		16QAM	1	1	19.77	1	
		64QAM	1	1	18.29	2.5	
		256QAM	1	1	16.30	4.5	
CP-OFDM	QPSK	1	1	19.23	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.59	0	
			1	109	20.69	0	
			1	215	20.17	0	
			108	0	20.21	0.5	
			108	55	20.64	0	
			108	109	20.63	0.5	
			216	0	20.38	0.5	
		QPSK	1	1	20.66	0	
			1	109	20.74	0	
			1	215	20.14	0	
			108	0	19.73	1	
			108	55	20.59	0	
			108	109	20.00	1	
		216	0	19.84	1		
		16QAM	1	1	19.77	1	
		64QAM	1	1	18.29	2.5	
		256QAM	1	1	16.30	4.5	
CP-OFDM	QPSK	1	1	19.23	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.66	0	
			1	95	20.66	0	
			1	187	20.21	0	
			90	0	20.25	0.5	
			90	50	20.58	0	
			90	99	20.58	0.5	
			180	0	20.42	0.5	
		QPSK	1	1	20.65	0	
			1	95	20.70	0	
			1	187	20.14	0	
			90	0	19.75	1	
			90	50	20.67	0	
			90	99	20.10	1	
		180	0	19.90	1		
		16QAM	1	1	19.80	1	
		64QAM	1	1	18.26	2.5	
		256QAM	1	1	16.30	4.5	
CP-OFDM	QPSK	1	1	19.32	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.33	0	
			1	81	20.55	0	
			1	160	20.37	0	
			81	0	20.28	0.5	
			81	41	20.57	0	
			81	81	20.55	0.5	
			162	0	20.32	0.5	
		QPSK	1	1	20.36	0	
			1	81	20.60	0	
			1	160	20.36	0	
			81	0	19.78	1	
			81	41	20.62	0	
			81	81	20.10	1	
			162	0	19.82	1	
		16QAM	1	1	19.63	1	
64QAM	1	1	18.09	2.5			
256QAM	1	1	16.14	4.5			
CP-OFDM	QPSK	1	1	19.13	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 668	635 000	
					3 475.02 MHz	3 525.00 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.02	20.19	0
			1	67	20.85	20.38	0
			1	131	20.63	20.15	0
			64	0	20.86	20.51	0.5
			64	35	20.76	20.25	0
			64	69	20.54	20.12	0.5
			128	0	20.61	20.11	0.5
		QPSK	1	1	21.01	20.51	0
			1	67	20.87	20.42	0
			1	131	20.63	20.10	0
			64	0	20.82	20.37	1
			64	35	20.66	20.25	0
			64	69	20.59	20.19	1
			128	0	20.56	20.08	1
		16QAM	1	1	20.01	19.86	1
		64QAM	1	1	18.34	18.29	2.5
		256QAM	1	1	16.46	16.51	4.5
		CP-OFDM	QPSK	1	1	19.46	19.36

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 334	635 332	
					3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.10	20.30	0
			1	53	21.13	20.60	0
			1	104	20.83	20.28	0
			50	0	20.72	20.31	0.5
			50	28	21.09	20.43	0
			50	56	20.88	20.40	0.5
			100	0	20.88	20.28	0.5
		QPSK	1	1	20.85	20.31	0
			1	53	21.07	20.70	0
			1	104	20.72	20.29	0
			50	0	20.77	20.19	1
			50	28	21.06	20.53	0
			50	56	20.94	20.28	1
		100	0	20.88	20.25	1	
		16QAM	1	1	19.69	19.71	1
		64QAM	1	1	18.13	18.10	2.5
		256QAM	1	1	16.19	16.02	4.5
CP-OFDM	QPSK	1	1	19.31	19.17	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.07	20.41	20.35	0
			1	39	21.18	20.82	20.50	0
			1	76	21.00	20.53	20.32	0
			36	0	20.81	20.38	20.30	0.5
			36	21	21.10	20.66	20.40	0
			36	42	20.97	20.50	20.22	0.5
			75	0	20.81	20.53	20.36	0.5
		QPSK	1	1	20.61	20.42	20.28	0
			1	39	21.11	20.80	20.54	0
			1	76	21.15	20.58	20.39	0
			36	0	20.75	19.87	20.34	1
			36	21	21.06	20.67	20.39	0
			36	42	20.94	19.98	20.27	1
		75	0	20.83	19.99	20.36	1	
		16QAM	1	1	19.71	19.72	19.91	1
		64QAM	1	1	18.17	18.21	18.03	2.5
		256QAM	1	1	16.06	16.19	16.06	4.5
CP-OFDM	QPSK	1	1	19.01	19.18	19.17	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 834	633 334	635 832	
					3 462.51 MHz	3 500.01 MHz	3 537.48 MHz	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.07	20.41	20.27	0
			1	33	21.17	20.79	20.42	0
			1	63	20.96	20.52	20.28	0
			32	0	20.80	20.40	20.30	0.5
			32	17	21.08	20.60	20.31	0
			32	33	20.89	20.51	20.22	0.5
		64	0	20.74	20.44	20.34	0.5	
		QPSK	1	1	20.51	20.33	20.29	0
			1	33	21.13	20.76	20.53	0
			1	63	21.07	20.51	20.39	0
			32	0	20.76	19.81	20.27	1
			32	17	21.03	20.58	20.34	0
			32	33	20.95	19.92	20.29	1
		64	0	20.80	19.99	20.36	1	
		16QAM	1	1	19.73	19.69	19.82	1
		64QAM	1	1	18.18	18.15	17.95	2.5
256QAM	1	1	15.96	16.13	16.00	4.5		
CP-OFDM	QPSK	1	1	18.94	19.11	19.11	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.10	20.48	20.46	0
			1	26	21.25	20.65	20.55	0
			1	49	21.21	20.70	20.64	0
			25	0	21.12	20.44	20.17	0.5
			25	13	21.37	20.75	20.47	0
			25	26	21.06	20.58	20.41	0.5
		50	0	21.21	20.57	20.27	0.5	
		QPSK	1	1	21.09	20.61	20.34	0
			1	26	21.29	20.66	20.44	0
			1	49	21.23	20.67	20.51	0
			25	0	20.49	19.95	20.11	1
			25	13	21.35	20.71	20.52	0
			25	26	20.57	20.10	20.50	1
		50	0	20.82	19.98	20.37	1	
		16QAM	1	1	19.91	19.88	19.75	1
		64QAM	1	1	18.39	18.33	18.38	2.5
256QAM	1	1	16.24	16.35	16.43	4.5		
CP-OFDM	QPSK	1	1	19.39	19.35	19.36	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630500	633334	636166	
					3457.50 MHz	3500.01 MHz	3542.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.04	20.68	20.49	0
			1	19	21.11	20.76	20.73	0
			1	36	20.91	20.64	20.64	0
			18	0	20.68	20.33	20.30	0.5
			18	10	20.94	20.64	20.59	0
			18	20	20.66	20.41	20.36	0.5
		36	0	20.73	20.39	20.31	0.5	
		QPSK	1	1	20.97	20.77	20.58	0
			1	19	21.21	20.71	20.73	0
			1	36	20.97	20.63	20.65	0
			18	0	20.76	19.80	20.31	1
			18	10	20.87	20.63	20.52	0
			18	20	20.67	19.97	20.31	1
		36	0	20.62	19.85	20.25	1	
		16QAM	1	1	20.18	20.13	19.96	1
		64QAM	1	1	18.48	18.52	18.42	2.5
256QAM	1	1	16.67	16.53	16.68	4.5		
CP-OFDM	QPSK	1	1	19.60	19.49	19.53	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630334	633334	636322	
					3445.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.00	20.56	20.35	0
			1	12	21.19	20.68	20.55	0
			1	22	21.37	20.61	20.63	0
			12	0	20.94	20.38	20.37	0.5
			12	6	21.25	20.72	20.51	0
			12	12	21.00	20.43	20.42	0.5
		24	0	20.88	20.42	20.24	0.5	
		QPSK	1	1	21.17	20.57	20.47	0
			1	12	21.11	20.63	20.66	0
			1	22	21.34	20.65	20.62	0
			12	0	20.86	20.00	20.37	1
			12	6	21.32	20.58	20.63	0
			12	12	20.85	19.86	20.34	1
		24	0	20.88	19.96	20.33	1	
		16QAM	1	1	19.99	19.93	20.06	1
		64QAM	1	1	18.53	18.33	18.45	2.5
256QAM	1	1	16.41	16.35	16.23	4.5		
CP-OFDM	QPSK	1	1	19.50	19.45	19.29	1.5	

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Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					650 000	662 000	
					3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.17	20.31	0
			1	137	20.91	20.73	0
			1	271	20.50	20.69	0
			135	0	20.85	20.39	0.5
			135	69	20.96	20.68	0
			135	138	20.57	20.87	0.5
			270	0	20.63	20.42	0.5
		QPSK	1	1	21.13	20.26	0
			1	137	20.94	20.72	0
			1	271	20.63	20.71	0
			135	0	20.36	19.86	1
			135	69	20.97	20.72	0
			135	138	20.07	20.37	1
			270	0	20.11	19.91	1
		16QAM	1	1	20.41	19.56	1
		64QAM	1	1	18.85	17.99	2.5
256QAM	1	1	16.87	16.01	4.5		
CP-OFDM	QPSK	1	1	19.93	19.09	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.04	20.37	20.41	0
			1	123	20.33	20.56	20.57	0
			1	243	20.01	20.21	20.18	0
			120	0	20.45	20.07	20.57	0.5
			120	63	20.37	20.54	20.65	0
			120	125	19.97	19.72	20.25	0.5
			243	0	19.97	19.76	20.17	0.5
		QPSK	1	1	20.06	20.40	20.40	0
			1	123	20.25	20.58	20.59	0
			1	243	20.16	20.22	20.18	0
			120	0	20.49	20.11	20.58	1
			120	63	20.38	20.56	20.57	0
			120	125	19.96	19.74	20.16	1
			243	0	19.95	19.79	20.10	1
		16QAM	1	1	19.66	19.78	19.61	1
		64QAM	1	1	18.04	18.20	18.27	2.5
256QAM	1	1	16.10	16.21	16.08	4.5		
CP-OFDM	QPSK	1	1	19.22	19.22	19.29	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.15	20.29	20.41	0
			1	109	21.29	20.53	20.94	0
			1	215	20.88	20.21	20.49	0
			108	0	21.08	20.06	20.81	0.5
			108	55	21.17	20.46	20.79	0
			108	109	20.86	19.67	20.53	0.5
		216	0	20.92	19.69	20.55	0.5	
		QPSK	1	1	21.03	20.70	20.50	0
			1	109	21.28	20.53	20.92	0
			1	215	20.93	20.55	20.56	0
			108	0	20.83	20.11	20.76	1
			108	55	21.16	20.59	20.79	0
			108	109	20.87	19.91	20.55	1
		216	0	20.89	19.78	20.62	1	
		16QAM	1	1	19.79	19.71	19.92	1
		64QAM	1	1	18.30	18.13	18.09	2.5
256QAM	1	1	16.30	16.13	16.29	4.5		
CP-OFDM	QPSK	1	1	19.31	19.18	19.36	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					649000	653666	658334	663000	
					3735.00 MHz	3804.99 MHz	3875.01 MHz	3945.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.12	20.67	20.44	20.56	0
			1	95	21.09	20.74	20.57	20.63	0
			1	187	20.64	20.27	20.08	20.17	0
			90	0	20.53	20.31	20.11	20.31	0.5
			90	50	21.01	20.69	20.51	20.66	0
			90	99	20.91	20.65	20.48	20.57	0.5
		180	0	20.77	20.45	20.21	20.43	0.5	
		QPSK	1	1	20.88	20.68	20.47	20.57	0
			1	95	21.14	20.77	20.49	20.54	0
			1	187	20.61	20.24	20.00	20.21	0
			90	0	20.50	19.83	20.13	20.40	1
			90	50	21.07	20.70	20.51	20.60	0
			90	99	20.99	20.11	20.53	20.61	1
		180	0	20.77	19.95	20.29	20.37	1	
		16QAM	1	1	19.80	19.87	19.73	19.91	1
		64QAM	1	1	18.35	18.31	18.45	18.40	2.5
256QAM	1	1	16.24	16.32	16.28	16.42	4.5		
CP-OFDM	QPSK	1	1	19.46	19.34	19.47	19.48	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR	
					648668	653556	658444	663332		
					3730.02	3803.34	3876.66	3949.98		
					MHz	MHz	MHz	MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	20.99	20.43	20.24	20.33	0	
			1	81	21.26	20.64	20.51	20.50	0	
			1	160	21.00	20.41	20.14	20.30	0	
			81	0	20.88	20.31	20.14	20.26	0.5	
			81	41	21.17	20.64	20.38	20.54	0	
			81	81	21.21	20.57	20.30	20.41	0.5	
		162	0	20.91	20.34	20.05	20.20	0.5		
		QPSK	1	1	21.16	20.44	20.33	20.45	0	
			1	81	21.30	20.62	20.47	20.54	0	
			1	160	21.02	20.42	20.20	20.25	0	
			81	0	20.92	19.79	20.23	20.32	1	
			81	41	21.20	20.65	20.39	20.56	0	
			81	81	20.76	20.11	20.36	20.33	1	
		162	0	20.82	19.85	20.09	20.11	1		
		16QAM	1	1	19.79	19.74	19.80	19.70	1	
		64QAM	1	1	18.21	18.15	18.14	18.28	2.5	
256QAM	1	1	16.11	16.16	16.01	16.23	4.5			
CP-OFDM	QPSK	1	1	19.06	19.21	19.20	19.20	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR	
					648334	652166	656000	659834	663666		
					3725.01	3782.49	3840.00	3897.51	3954.99		
					MHz	MHz	MHz	MHz	MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.05	20.60	20.70	20.21	20.45	0	
			1	67	20.95	20.74	20.49	20.39	20.66	0	
			1	131	20.69	20.54	20.31	20.26	20.63	0	
			64	0	20.87	20.87	20.56	20.52	20.82	0.5	
			64	35	20.83	20.78	20.48	20.32	20.80	0	
			64	69	20.60	20.62	20.23	20.21	20.53	0.5	
			128	0	20.65	20.56	20.25	20.12	20.59	0.5	
		QPSK	1	1	21.03	20.94	20.63	20.59	20.84	0	
			1	67	20.95	20.71	20.48	20.45	20.75	0	
			1	131	20.72	20.49	20.36	20.20	20.65	0	
			64	0	20.91	20.88	20.02	20.46	20.73	1	
			64	35	20.74	20.86	20.49	20.32	20.74	0	
			64	69	20.61	20.59	19.71	20.28	20.52	1	
		128	0	20.58	20.48	19.73	20.17	20.62	1		
		16QAM	1	1	20.11	20.04	20.04	19.91	19.93	1	
		64QAM	1	1	18.40	18.36	18.45	18.37	18.56	2.5	
256QAM	1	1	16.51	16.56	16.48	16.54	16.55	4.5			
CP-OFDM	QPSK	1	1	19.49	19.32	19.41	19.45	19.54	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					648000	651200	654400	657600	660800	664000	
					3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.13	20.68	20.46	20.39	20.33	20.72	0
			1	53	21.18	20.84	20.84	20.47	20.62	20.91	0
			1	104	20.84	20.46	20.49	20.27	20.36	20.64	0
			50	0	20.76	20.33	20.43	20.04	20.32	20.56	0.5
			50	28	21.15	20.82	20.81	20.49	20.54	20.92	0
			50	56	20.91	20.52	20.53	20.28	20.41	20.74	0.5
			100	0	20.96	20.53	20.57	20.18	20.36	20.71	0.5
		QPSK	1	1	20.88	20.43	20.42	20.13	20.33	20.66	0
			1	53	21.15	20.82	20.81	20.42	20.71	20.89	0
			1	104	20.82	20.41	20.51	20.24	20.39	20.65	0
			50	0	20.82	20.25	19.93	19.98	20.24	20.58	1
			50	28	21.09	20.79	20.78	20.42	20.59	20.97	0
			50	56	20.95	20.56	20.04	20.25	20.38	20.80	1
			100	0	20.96	20.46	20.47	20.20	20.32	20.75	1
	16QAM	1	1	19.70	19.60	19.72	19.61	19.75	19.68	1	
	64QAM	1	1	18.18	18.13	18.16	18.21	18.11	18.11	2.5	
256QAM	1	1	16.28	16.04	16.16	16.27	16.11	16.15	4.5		
CP-OFDM	QPSK	1	1	19.35	19.07	19.21	19.13	19.27	19.28	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647668	651000	654334	657666	661000	664332	
					3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.09	20.68	20.49	20.34	20.46	20.91	0
			1	39	21.26	20.75	20.83	20.42	20.57	21.12	0
			1	76	21.10	20.51	20.63	20.09	20.37	20.87	0
			36	0	20.82	20.34	20.47	19.98	20.36	20.75	0.5
			36	21	21.13	20.66	20.76	20.33	20.48	21.08	0
			36	42	21.00	20.50	20.52	20.06	20.27	20.73	0.5
			75	0	20.87	20.41	20.55	19.97	20.43	20.93	0.5
		QPSK	1	1	20.72	20.39	20.48	20.16	20.34	20.84	0
			1	39	21.18	20.82	20.82	20.36	20.55	21.18	0
			1	76	21.17	20.50	20.62	20.03	20.44	20.86	0
			36	0	20.78	20.43	19.96	19.90	20.42	20.80	1
			36	21	21.10	20.65	20.77	20.38	20.50	21.09	0
			36	42	20.96	20.47	20.01	20.12	20.35	20.82	1
			75	0	20.87	20.42	20.03	19.95	20.38	20.92	1
	16QAM	1	1	19.80	19.92	19.82	19.85	19.92	19.80	1	
	64QAM	1	1	18.19	18.22	18.24	18.36	18.13	18.09	2.5	
256QAM	1	1	16.17	16.21	16.26	16.40	16.11	16.15	4.5		
CP-OFDM	QPSK	1	1	19.12	19.36	19.27	19.19	19.24	19.41	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 500	650 900	654 300	657 700	661 100	664 500	
					3 712.50 MHz	3 763.50 MHz	3 814.50 MHz	3 865.50 MHz	3 916.50 MHz	3 967.50 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.02	20.60	20.44	20.36	20.46	20.81	0
			1	33	21.18	20.77	20.73	20.35	20.59	21.03	0
			1	63	21.08	20.50	20.60	20.03	20.34	20.86	0
			32	0	20.72	20.26	20.44	19.93	20.27	20.76	0.5
			32	17	21.03	20.58	20.75	20.30	20.49	20.99	0
			32	33	21.01	20.42	20.50	20.01	20.19	20.63	0.5
			64	0	20.78	20.35	20.51	19.94	20.45	20.83	0.5
		QPSK	1	1	20.64	20.34	20.38	20.13	20.29	20.79	0
			1	33	21.14	20.78	20.72	20.28	20.47	21.10	0
			1	63	21.07	20.40	20.63	20.03	20.39	20.82	0
			32	0	20.77	20.42	19.89	19.83	20.34	20.76	1
			32	17	21.03	20.57	20.73	20.36	20.50	21.10	0
			32	33	20.92	20.40	20.03	20.03	20.32	20.83	1
			64	0	20.81	20.33	20.01	19.93	20.36	20.88	1
	16QAM	1	1	19.70	19.83	19.75	19.84	19.93	19.80	1	
64QAM	1	1	18.17	18.24	18.22	18.33	18.06	17.99	2.5		
256QAM	1	1	16.09	16.15	16.28	16.42	16.08	16.09	4.5		
CP-OFDM	QPSK	1	1	19.13	19.35	19.23	19.16	19.26	19.42	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647334	650800	654266	657734	661200	664666	
					3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.17	20.71	20.59	20.39	20.54	20.88	0
			1	26	21.29	20.99	20.75	20.49	20.61	20.99	0
			1	49	21.30	20.93	20.78	20.51	20.65	20.93	0
			25	0	21.15	20.68	20.48	20.18	20.20	20.68	0.5
			25	13	21.44	21.04	20.81	20.59	20.54	21.04	0
			25	26	21.15	20.80	20.61	20.30	20.50	20.80	0.5
			50	0	21.26	20.66	20.58	20.23	20.37	20.66	0.5
		QPSK	1	1	21.20	20.78	20.66	20.37	20.45	20.78	0
			1	26	21.31	21.02	20.73	20.53	20.52	21.02	0
			1	49	21.31	21.02	20.71	20.50	20.60	21.02	0
			25	0	20.58	20.69	20.01	20.20	20.13	20.69	1
			25	13	21.37	21.04	20.79	20.56	20.53	21.04	0
			25	26	20.60	20.84	20.11	20.23	20.59	20.84	1
			50	0	20.83	20.61	20.06	20.20	20.46	20.61	1
	16QAM	1	1	20.00	20.02	19.93	20.03	19.86	20.02	1	
64QAM	1	1	18.43	18.33	18.35	18.30	18.39	18.33	2.5		
256QAM	1	1	16.28	16.26	16.37	16.47	16.49	16.26	4.5		
CP-OFDM	QPSK	1	1	19.48	19.47	19.43	19.45	19.47	19.47	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647168	650700	654234	657766	661300	664832	
					3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.15	20.75	20.71	20.41	20.56	20.85	0
			1	19	21.20	20.93	20.85	21.53	20.78	21.02	0
			1	36	20.98	20.84	20.74	21.31	20.68	20.96	0
			18	0	20.78	20.50	20.41	21.02	20.40	20.68	0.5
			18	10	20.98	20.87	20.72	21.40	20.66	20.99	0
			18	20	20.72	20.58	20.51	21.19	20.44	20.79	0.5
			36	0	20.79	20.60	20.50	21.11	20.37	20.67	0.5
		QPSK	1	1	20.98	21.03	20.79	21.37	20.63	21.00	0
			1	19	21.22	20.91	20.81	21.45	20.80	21.03	0
			1	36	20.99	20.88	20.73	21.39	20.67	20.94	0
			18	0	20.80	20.47	19.91	21.00	20.38	20.62	1
			18	10	20.97	20.94	20.69	21.37	20.57	21.03	0
			18	20	20.74	20.67	20.01	20.87	20.41	20.75	1
		36	0	20.71	20.64	19.95	20.69	20.30	20.61	1	
	16QAM	1	1	20.23	20.28	20.15	20.03	20.06	20.26	1	
64QAM	1	1	18.58	18.54	18.57	18.53	18.49	18.48	2.5		
256QAM	1	1	16.73	16.47	16.60	16.54	16.73	16.71	4.5		
CP-OFDM	QPSK	1	1	19.61	19.46	19.57	19.65	19.56	19.64	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647000	650600	654200	657800	661400	665000	
					3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	21.05	20.61	20.63	20.27	20.43	20.68	0
			1	12	21.24	20.77	20.70	20.35	20.66	20.94	0
			1	22	21.38	20.90	20.72	20.45	20.74	21.10	0
			12	0	21.03	20.66	20.49	20.28	20.42	20.79	0.5
			12	6	21.29	20.88	20.75	20.46	20.62	21.04	0
			12	12	21.10	20.62	20.46	20.14	20.45	20.67	0.5
			24	0	20.99	20.61	20.44	20.08	20.35	20.77	0.5
		QPSK	1	1	21.26	20.82	20.65	20.37	20.55	20.92	0
			1	12	21.15	20.82	20.72	20.35	20.74	20.93	0
			1	22	21.45	20.88	20.73	20.41	20.70	21.12	0
			12	0	20.97	20.60	20.01	20.24	20.40	20.87	1
			12	6	21.33	20.87	20.64	20.50	20.66	21.10	0
			12	12	20.94	20.63	19.95	20.10	20.43	20.70	1
		24	0	20.96	20.53	19.98	20.16	20.36	20.76	1	
	16QAM	1	1	20.05	20.06	19.96	19.82	20.09	19.89	1	
64QAM	1	1	18.54	18.28	18.40	18.32	18.52	18.48	2.5		
256QAM	1	1	16.43	16.41	16.39	16.32	16.32	16.45	4.5		
CP-OFDM	QPSK	1	1	19.51	19.36	19.46	19.58	19.33	19.58	1.5	

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Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.56	0	
			1	137	6.27	0	
			1	271	6.11	0	
			135	0	5.52	0.5	
			135	69	6.20	0	
			135	138	6.24	0.5	
			270	0	6.30	0.5	
		QPSK	1	1	6.57	0	
			1	137	6.29	0	
			1	271	6.17	0	
			135	0	5.53	1	
			135	69	6.25	0	
			135	138	5.29	1	
			270	0	5.20	1	
		16QAM	1	1	5.50	1	
		64QAM	1	1	3.46	2.5	
		256QAM	1	1	2.44	4.5	
CP-OFDM	QPSK	1	1	4.53	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.52	0	
			1	123	6.28	0	
			1	243	6.15	0	
			120	0	5.36	0.5	
			120	63	6.30	0	
			120	125	6.28	0.5	
			243	0	6.24	0.5	
		QPSK	1	1	6.54	0	
			1	123	6.33	0	
			1	243	6.22	0	
			120	0	5.31	1	
			120	63	6.32	0	
			120	125	5.26	1	
			243	0	5.23	1	
		16QAM	1	1	5.51	1	
		64QAM	1	1	3.51	2.5	
		256QAM	1	1	2.49	4.5	
CP-OFDM	QPSK	1	1	4.56	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.45	0	
			1	109	6.30	0	
			1	215	6.15	0	
			108	0	5.48	0.5	
			108	55	6.29	0	
			108	109	5.26	0.5	
			216	0	5.18	0.5	
		QPSK	1	1	6.54	0	
			1	109	6.25	0	
			1	215	6.22	0	
			108	0	5.51	1	
			108	55	6.25	0	
			108	109	5.27	1	
		216	0	5.18	1		
		16QAM	1	1	5.49	1	
		64QAM	1	1	3.61	2.5	
		256QAM	1	1	2.48	4.5	
CP-OFDM	QPSK	1	1	4.49	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.52	0	
			1	95	6.20	0	
			1	187	6.13	0	
			90	0	5.51	0.5	
			90	50	6.27	0	
			90	99	5.25	0.5	
			180	0	5.23	0.5	
		QPSK	1	1	6.53	0	
			1	95	6.27	0	
			1	187	6.22	0	
			90	0	5.51	1	
			90	50	6.27	0	
			90	99	5.29	1	
		180	0	5.23	1		
		16QAM	1	1	5.48	1	
		64QAM	1	1	3.57	2.5	
		256QAM	1	1	2.46	4.5	
CP-OFDM	QPSK	1	1	4.61	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.46		0
			1	81	6.27		0
			1	160	6.11		0
			81	0	5.47		0.5
			81	41	6.25		0
			81	81	5.25		0.5
			162	0	5.23		0.5
		QPSK	1	1	6.54		0
			1	81	6.28		0
			1	160	6.21		0
			81	0	5.55		1
			81	41	6.21		0
			81	81	5.28		1
			162	0	5.22		1
		16QAM	1	1	5.50		1
64QAM	1	1	3.51		2.5		
256QAM	1	1	2.45		4.5		
CP-OFDM	QPSK	1	1	4.46		1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 668	635 000	
					3 475.02 MHz	3 525.00 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.58	6.37	0
			1	67	6.46	6.33	0
			1	131	6.26	6.27	0
			64	0	5.62	5.53	0.5
			64	35	6.27	6.34	0
			64	69	5.15	5.30	0.5
			128	0	5.27	5.16	0.5
		QPSK	1	1	6.56	6.47	0
			1	67	6.42	6.29	0
			1	131	6.24	6.22	0
			64	0	5.59	5.57	1
			64	35	6.31	6.35	0
			64	69	5.22	5.33	1
			128	0	5.32	5.23	1
		16QAM	1	1	5.60	5.66	1
		64QAM	1	1	3.49	3.51	2.5
		256QAM	1	1	1.67	1.56	4.5
		CP-OFDM	QPSK	1	1	4.67	4.55

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 334	635 332	
					3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.45	6.39	0
			1	53	6.38	6.26	0
			1	104	6.11	6.32	0
			50	0	5.65	5.59	0.5
			50	28	6.24	6.24	0
			50	56	5.21	5.27	0.5
			100	0	5.36	5.20	0.5
		QPSK	1	1	6.53	6.45	0
			1	53	6.39	6.21	0
			1	104	6.21	6.27	0
			50	0	5.61	5.59	1
			50	28	6.29	6.33	0
			50	56	5.20	5.37	1
		100	0	5.33	5.26	1	
		16QAM	1	1	5.57	5.51	1
		64QAM	1	1	3.56	3.60	2.5
256QAM	1	1	1.67	1.52	4.5		
CP-OFDM	QPSK	1	1	4.50	4.52	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.49	6.45	6.42	0
			1	39	6.32	6.25	6.15	0
			1	76	6.08	6.21	6.17	0
			36	0	5.63	5.37	5.62	0.5
			36	21	6.16	6.18	6.29	0
			36	42	5.16	5.19	5.38	0.5
			75	0	5.20	5.29	5.28	0.5
		QPSK	1	1	6.49	6.47	6.41	0
			1	39	6.32	6.31	6.19	0
			1	76	6.18	6.27	6.24	0
			36	0	5.59	5.38	5.58	1
			36	21	6.26	6.26	6.32	0
			36	42	5.17	5.29	5.34	1
		75	0	5.30	5.25	5.24	1	
		16QAM	1	1	5.68	5.42	5.69	1
		64QAM	1	1	3.48	3.47	3.43	2.5
256QAM	1	1	1.63	2.44	1.56	4.5		
CP-OFDM	QPSK	1	1	4.64	4.46	4.69	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 834	633 334	635 832	
					3 462.51 MHz	3 500.01 MHz	3 537.48 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.49	6.41	6.36	0
			1	33	6.31	6.18	6.16	0
			1	63	5.99	6.21	6.11	0
			32	0	5.65	5.33	5.52	0.5
			32	17	6.09	6.08	6.21	0
			32	33	5.10	5.12	5.38	0.5
		64	0	5.18	5.23	5.21	0.5	
		QPSK	1	1	6.42	6.38	6.32	0
			1	33	6.28	6.31	6.18	0
			1	63	6.16	6.22	6.22	0
			32	0	5.55	5.30	5.55	1
			32	17	6.28	6.28	6.32	0
			32	33	5.15	5.22	5.27	1
		64	0	5.24	5.17	5.20	1	
		16QAM	1	1	5.67	5.34	5.65	1
		64QAM	1	1	3.39	3.48	3.42	2.5
		256QAM	1	1	1.60	2.34	1.52	4.5
CP-OFDM	QPSK	1	1	4.62	4.43	4.61	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.54	6.51	6.32	0
			1	26	6.30	6.19	6.22	0
			1	49	6.16	6.25	6.24	0
			25	0	5.62	5.36	5.63	0.5
			25	13	6.28	6.30	6.29	0
			25	26	5.22	5.23	5.40	0.5
			50	0	5.31	5.24	5.27	0.5
		QPSK	1	1	6.51	6.49	6.42	0
			1	26	6.33	6.29	6.20	0
			1	49	6.20	6.29	6.25	0
			25	0	5.59	5.39	5.59	1
			25	13	6.27	6.29	6.33	0
			25	26	5.20	5.31	5.37	1
		50	0	5.31	5.33	5.26	1	
		16QAM	1	1	5.56	5.42	5.50	1
		64QAM	1	1	3.51	3.59	3.51	2.5
		256QAM	1	1	1.52	2.44	1.60	4.5
CP-OFDM	QPSK	1	1	4.63	4.58	4.68	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 500	633 334	636 166	
					3 457.50 MHz	3 500.01 MHz	3 542.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.38	6.54	6.34	0
			1	19	6.27	6.32	6.15	0
			1	36	6.28	6.27	6.29	0
			18	0	5.63	5.44	5.54	0.5
			18	10	6.25	6.25	6.28	0
			18	20	5.27	5.25	5.33	0.5
		36	0	5.39	5.21	5.26	0.5	
		QPSK	1	1	6.48	6.49	6.39	0
			1	19	6.30	6.35	6.25	0
			1	36	6.25	6.33	6.31	0
			18	0	5.62	5.41	5.57	1
			18	10	6.31	6.24	6.32	0
			18	20	5.23	5.28	5.36	1
		36	0	5.37	5.24	5.27	1	
		16QAM	1	1	5.70	5.61	5.65	1
		64QAM	1	1	3.56	3.42	3.49	2.5
		256QAM	1	1	1.50	2.50	1.55	4.5
CP-OFDM	QPSK	1	1	4.50	4.47	4.52	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 334	633 334	636 322	
					3 455.01 MHz	3 500.01 MHz	3 544.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.36	6.43	6.31	0
			1	12	6.24	6.26	6.19	0
			1	22	6.19	6.25	6.33	0
			12	0	5.53	5.45	5.56	0.5
			12	6	6.33	6.31	6.26	0
			12	12	5.21	5.27	5.29	0.5
		24	0	5.30	5.29	5.22	0.5	
		QPSK	1	1	6.45	6.47	6.41	0
			1	12	6.28	6.31	6.24	0
			1	22	6.26	6.35	6.31	0
			12	0	5.63	5.44	5.59	1
			12	6	6.33	6.26	6.30	0
			12	12	5.25	5.31	5.37	1
		24	0	5.36	5.25	5.28	1	
		16QAM	1	1	5.64	5.47	5.57	1
		64QAM	1	1	3.54	3.59	3.58	2.5
		256QAM	1	1	1.52	2.41	1.64	4.5
CP-OFDM	QPSK	1	1	4.63	4.63	4.52	1.5	

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Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					650 000	662 000	
					3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.95	6.29	0
			1	137	6.31	6.68	0
			1	271	5.63	6.60	0
			135	0	5.57	5.61	0.5
			135	69	6.29	6.63	0
			135	138	5.96	5.96	0.5
		270	0	5.26	5.55	0.5	
		QPSK	1	1	6.98	6.30	0
			1	137	6.33	6.69	0
			1	271	5.64	6.61	0
			135	0	5.58	5.64	1
			135	69	6.80	6.76	0
			135	138	5.96	5.97	1
		270	0	5.25	5.59	1	
		16QAM	1	1	5.99	5.29	1
		64QAM	1	1	3.93	4.22	2.5
256QAM	1	1	1.94	2.26	4.5		
CP-OFDM	QPSK	1	1	4.98	5.27	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.86	6.61	6.34	0
			1	123	6.25	6.58	6.66	0
			1	243	5.57	6.31	6.64	0
			120	0	5.61	5.91	5.53	0.5
			120	63	6.24	6.63	6.56	0
			120	125	5.90	5.37	5.86	0.5
		243	0	5.22	5.46	5.54	0.5	
		QPSK	1	1	6.96	6.62	6.32	0
			1	123	6.31	6.61	6.67	0
			1	243	5.66	6.30	6.59	0
			120	0	5.60	5.95	5.61	1
			120	63	6.31	6.61	6.64	0
			120	125	5.99	5.41	5.96	1
		243	0	5.31	5.53	5.59	1	
		16QAM	1	1	5.09	5.72	5.24	1
		64QAM	1	1	3.83	3.48	4.12	2.5
256QAM	1	1	1.84	1.55	2.34	4.5		
CP-OFDM	QPSK	1	1	5.02	4.73	5.34	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.98	6.63	6.32	0
			1	109	6.24	6.66	6.70	0
			1	215	5.66	6.26	6.53	0
			108	0	5.52	5.93	5.61	0.5
			108	55	6.28	6.66	6.62	0
			108	109	5.90	5.34	5.94	0.5
		216	0	5.34	5.46	5.56	0.5	
		QPSK	1	1	6.95	6.65	6.35	0
			1	109	6.29	6.64	6.68	0
			1	215	5.67	6.31	6.61	0
			108	0	5.61	5.96	5.63	1
			108	55	6.32	6.61	6.64	0
			108	109	5.98	5.40	5.95	1
		216	0	5.29	5.53	5.58	1	
		16QAM	1	1	5.98	5.59	5.30	1
		64QAM	1	1	3.90	3.49	4.25	2.5
256QAM	1	1	1.92	1.52	2.29	4.5		
CP-OFDM	QPSK	1	1	5.03	4.63	5.29	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					649 000	653 666	658 334	663 000	
					3 735.00 MHz	3 804.99 MHz	3 875.01 MHz	3 945.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.01	6.78	6.25	6.41	0
			1	95	6.33	6.72	6.74	6.85	0
			1	187	5.72	6.33	6.56	6.74	0
			90	0	5.56	5.01	5.66	5.76	0.5
			90	50	6.37	6.73	6.75	6.78	0
			90	99	5.12	5.46	4.98	5.18	0.5
		180	0	5.37	5.59	5.60	5.67	0.5	
		QPSK	1	1	6.11	6.78	6.36	6.51	0
			1	95	6.41	6.74	6.77	6.81	0
			1	187	5.71	6.36	6.55	6.72	0
			90	0	5.65	5.05	5.74	5.76	1
			90	50	6.35	6.71	6.55	6.74	0
			90	99	5.09	5.53	5.02	5.15	1
		180	0	5.39	5.66	5.69	5.71	1	
		16QAM	1	1	5.17	5.64	5.28	5.31	1
		64QAM	1	1	4.00	3.60	4.16	4.24	2.5
256QAM	1	1	2.00	1.70	2.18	2.29	4.5		
CP-OFDM	QPSK	1	1	5.04	4.61	5.15	5.19	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					648 668	653556	658444	663332	
					3 730.02	3 803.34	3 876.66	3 949.98	
					MHz	MHz	MHz	MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.18	6.76	6.40	6.63	0
			1	81	6.49	6.59	6.67	6.92	0
			1	160	5.91	6.29	6.73	6.78	0
			81	0	5.83	4.83	5.59	5.72	0.5
			81	41	6.39	6.58	6.71	6.78	0
			81	81	5.27	5.36	5.10	5.33	0.5
		QPSK	162	0	5.56	5.53	5.62	5.78	0.5
			1	1	6.25	6.73	6.45	6.72	0
			1	81	6.49	6.73	6.79	6.95	0
			1	160	5.91	6.19	6.66	6.81	0
			81	0	5.81	4.89	5.67	5.81	1
			81	41	6.42	6.59	6.54	6.82	0
		16QAM	81	81	5.26	5.34	5.04	5.32	1
			162	0	5.59	5.52	5.60	5.80	1
			1	1	5.21	5.50	5.14	5.27	1
		64QAM	1	1	3.92	3.45	4.12	4.28	2.5
1	1		2.02	1.57	2.18	2.29	4.5		
256QAM	1	1	2.02	1.57	2.18	2.29	4.5		
CP-OFDM	QPSK	1	1	4.88	4.49	5.14	5.25	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					648 334	652166	656000	659834	663666	
					3 725.01	3 782.49	3 840.00	3 897.51	3 954.99	
					MHz	MHz	MHz	MHz	MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.29	6.74	6.83	6.24	6.63	0
			1	67	6.60	6.57	6.91	6.67	6.89	0
			1	131	6.01	6.32	6.47	6.70	6.80	0
			64	0	5.95	4.98	5.26	5.67	5.88	0.5
			64	35	6.55	6.55	6.89	6.59	6.79	0
			64	69	5.33	5.40	5.84	5.14	5.26	0.5
		QPSK	128	0	5.56	5.55	5.85	5.63	5.87	0.5
			1	1	6.31	6.58	6.91	6.48	6.73	0
			1	67	6.55	6.54	6.89	6.62	6.97	0
			1	131	6.02	6.19	6.44	6.58	6.85	0
			64	0	5.92	5.03	5.26	5.58	5.89	1
			64	35	6.50	6.67	6.84	6.66	6.88	0
		16QAM	64	69	5.31	5.35	5.88	4.97	5.35	1
			128	0	5.61	5.58	5.89	5.64	5.86	1
			1	1	5.34	5.46	5.61	5.15	5.19	1
		64QAM	1	1	3.90	3.45	3.51	4.15	4.31	2.5
1	1		1.88	1.60	1.67	2.12	2.22	4.5		
256QAM	1	1	1.88	1.60	1.67	2.12	2.22	4.5		
CP-OFDM	QPSK	1	1	4.88	4.45	4.66	5.04	5.20	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					648 000	651 200	654 400	657 600	660 800	664 000	
					3 720.00 MHz	3 768.00 MHz	3 816.00 MHz	3 864.00 MHz	3 912.00 MHz	3 960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.26	6.63	6.75	6.36	6.34	6.72	0
			1	53	6.62	6.63	6.68	6.82	6.71	6.11	0
			1	104	6.08	6.15	6.28	6.59	6.68	6.87	0
			50	0	5.96	4.89	4.88	5.71	5.67	5.94	0.5
			50	28	6.12	6.60	6.68	6.74	6.59	6.89	0
			50	56	5.46	5.40	5.30	5.10	5.01	5.38	0.5
			100	0	5.74	5.49	5.58	5.53	5.52	5.95	0.5
		QPSK	1	1	6.35	6.76	6.77	6.48	6.35	6.81	0
			1	53	6.60	6.63	6.55	6.73	6.73	6.12	0
			1	104	6.10	6.26	6.33	6.70	6.65	6.92	0
			50	0	5.96	4.96	5.02	5.71	5.74	5.92	1
			50	28	6.20	6.65	6.51	6.69	6.58	6.92	0
			50	56	5.41	5.48	5.37	4.98	5.11	5.39	1
			100	0	5.72	5.46	5.46	5.70	5.53	5.94	1
	16QAM	1	1	5.54	5.55	5.49	5.30	5.25	5.39	1	
	64QAM	1	1	3.93	3.47	3.40	4.10	4.18	4.23	2.5	
256QAM	1	1	1.87	1.60	1.69	2.12	2.11	2.18	4.5		
CP-OFDM	QPSK	1	1	4.95	4.50	4.60	4.99	5.08	5.33	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 668	651 000	654 334	657 666	661 000	664 332	
					3 715.02 MHz	3 765.00 MHz	3 815.01 MHz	3 864.99 MHz	3 915.00 MHz	3 964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.27	6.58	6.75	6.23	6.27	6.69	0
			1	39	6.41	6.65	6.69	6.77	6.66	6.94	0
			1	76	5.99	6.16	6.19	6.60	6.67	6.76	0
			36	0	5.73	4.97	4.96	5.67	5.68	5.77	0.5
			36	21	6.40	6.63	6.56	6.63	6.77	6.78	0
			36	42	5.22	5.42	5.44	5.02	5.13	5.32	0.5
			75	0	5.60	5.57	5.49	5.63	5.64	5.82	0.5
		QPSK	1	1	6.24	6.74	6.67	6.37	6.33	6.73	0
			1	39	6.49	6.63	6.67	6.75	6.76	6.96	0
			1	76	5.95	6.30	6.26	6.52	6.64	6.82	0
			36	0	5.79	4.90	4.88	5.58	5.66	5.85	1
			36	21	6.41	6.58	6.70	6.71	6.69	6.84	0
			36	42	5.26	5.39	5.35	5.14	5.06	5.33	1
			75	0	5.61	5.55	5.46	5.63	5.51	5.79	1
		16QAM	1	1	5.34	5.49	5.51	5.15	5.18	5.38	1
		64QAM	1	1	3.92	3.55	3.58	4.21	4.09	4.15	2.5
		256QAM	1	1	1.98	1.60	1.62	2.24	2.28	2.25	4.5
	CP-OFDM	QPSK	1	1	5.03	4.52	4.47	5.12	5.01	5.19	1.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 500	650 900	654 300	657 700	661 100	664 500	
					3 712.50 MHz	3 763.50 MHz	3 814.50 MHz	3 865.50 MHz	3 916.50 MHz	3 967.50 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.20	6.60	6.70	6.21	6.18	6.66	0
			1	33	6.40	6.60	6.64	6.72	6.65	6.95	0
			1	63	5.91	6.07	6.10	6.62	6.58	6.71	0
			32	0	5.66	4.95	4.98	5.65	5.67	5.71	0.5
			32	17	6.34	6.62	6.50	6.53	6.79	6.78	0
			32	33	5.22	5.32	5.34	4.96	5.13	5.33	0.5
			64	0	5.55	5.56	5.41	5.64	5.54	5.75	0.5
		QPSK	1	1	6.26	6.76	6.69	6.28	6.28	6.73	0
			1	33	6.46	6.62	6.65	6.73	6.67	6.86	0
			1	63	5.95	6.22	6.18	6.52	6.57	6.81	0
			32	0	5.70	4.91	4.88	5.49	5.61	5.86	1
			32	17	6.33	6.55	6.69	6.66	6.60	6.80	0
			32	33	5.21	5.38	5.34	5.07	5.07	5.33	1
			64	0	5.59	5.51	5.44	5.56	5.43	5.75	1
	16QAM	1	1	5.28	5.44	5.44	5.16	5.08	5.30	1	
64QAM	1	1	3.85	3.49	3.51	4.23	4.09	4.13	2.5		
256QAM	1	1	1.91	1.58	1.62	2.26	2.27	2.27	4.5		
CP-OFDM	QPSK	1	1	4.96	4.52	4.43	5.10	4.91	5.14	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 334	650 800	654 266	657 734	661 200	664 666	
					3 710.01 MHz	3 762.00 MHz	3 813.99 MHz	3 866.01 MHz	3 918.00 MHz	3 969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.17	6.65	6.58	6.40	6.36	6.62	0
			1	26	6.40	6.57	6.71	6.70	6.73	6.80	0
			1	49	5.82	6.28	6.24	6.58	6.60	6.68	0
			25	0	5.72	4.85	4.82	5.64	5.59	5.73	0.5
			25	13	6.34	6.57	6.53	6.67	6.73	6.83	0
			25	26	5.18	5.41	5.34	5.17	5.05	5.25	0.5
			50	0	5.56	5.39	5.58	5.49	5.53	5.78	0.5
		QPSK	1	1	6.12	6.71	6.62	6.44	6.33	6.70	0
			1	26	6.45	6.71	6.69	6.74	6.61	6.89	0
			1	49	5.90	6.23	6.28	6.62	6.64	6.74	0
			25	0	5.76	4.95	5.02	5.73	5.70	5.80	1
			25	13	6.37	6.51	6.63	6.65	6.62	6.80	0
			25	26	5.25	5.33	5.34	5.13	4.97	5.29	1
			50	0	5.55	5.53	5.57	5.54	5.55	5.78	1
		16QAM	1	1	5.21	5.63	5.48	5.16	5.25	5.23	1
		64QAM	1	1	3.89	3.58	3.54	4.10	4.09	4.25	2.5
		256QAM	1	1	1.89	1.52	1.54	2.12	2.10	2.25	4.5
	CP-OFDM	QPSK	1	1	5.00	4.53	4.43	5.11	5.08	5.23	1.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 168	650 700	654 234	657 766	661 300	664 832	
					3 707.52 MHz	3 760.50 MHz	3 813.51 MHz	3 866.49 MHz	3 919.50 MHz	3 972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.08	6.64	6.73	6.29	6.23	6.62	0
			1	19	6.34	6.65	6.67	6.65	6.84	6.92	0
			1	36	5.92	6.24	6.19	6.60	6.54	6.68	0
			18	0	5.77	4.82	4.82	5.73	5.66	5.71	0.5
			18	10	6.35	6.61	6.55	6.60	6.70	6.76	0
			18	20	5.20	5.37	5.40	5.17	5.05	5.18	0.5
			36	0	5.48	5.49	5.54	5.59	5.60	5.77	0.5
		QPSK	1	1	6.05	6.59	6.60	6.46	6.36	6.71	0
			1	19	6.39	6.61	6.57	6.69	6.79	6.91	0
			1	36	5.92	6.23	6.28	6.58	6.57	6.74	0
			18	0	5.74	5.00	4.91	5.71	5.58	5.79	1
			18	10	6.37	6.51	6.65	6.63	6.58	6.79	0
			18	20	5.24	5.35	5.46	5.03	5.12	5.28	1
			36	0	5.52	5.55	5.46	5.66	5.56	5.77	1
	16QAM	1	1	5.23	5.62	5.59	5.27	5.14	5.39	1	
64QAM	1	1	3.93	3.46	3.53	4.13	4.16	4.20	2.5		
256QAM	1	1	1.87	1.64	1.65	2.20	2.17	2.22	4.5		
CP-OFDM	QPSK	1	1	5.03	4.59	4.44	5.06	5.06	5.36	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 000	650 600	654 200	657 800	661 400	665 000	
					3 705.00 MHz	3 759.00 MHz	3 813.00 MHz	3 867.00 MHz	3 921.00 MHz	3 975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.97	6.59	6.75	6.31	6.37	6.65	0
			1	12	6.29	6.52	6.62	6.83	6.73	6.79	0
			1	22	5.93	6.23	6.24	6.58	6.54	6.79	0
			12	0	5.72	4.83	5.00	5.62	5.69	5.80	0.5
			12	6	6.31	6.70	6.70	6.64	6.61	6.83	0
			12	12	5.36	5.34	5.38	5.11	5.08	5.25	0.5
			24	0	5.59	5.49	5.56	5.48	5.58	5.74	0.5
		QPSK	1	1	6.97	6.65	6.58	6.42	6.45	6.67	0
			1	12	6.34	6.56	6.63	6.67	6.65	6.88	0
			1	22	5.90	6.25	6.35	6.65	6.56	6.77	0
			12	0	5.71	4.94	4.96	5.70	5.72	5.77	1
			12	6	6.34	6.65	6.55	6.63	6.70	6.78	0
			12	12	5.33	5.33	5.50	4.99	5.05	5.24	1
			24	0	5.55	5.59	5.57	5.68	5.56	5.74	1
		16QAM	1	1	5.26	5.44	5.62	5.21	5.15	5.29	1
		64QAM	1	1	3.83	3.53	3.56	4.14	4.10	4.22	2.5
		256QAM	1	1	1.85	1.69	1.65	2.12	2.14	2.23	4.5
		CP-OFDM	QPSK	1	1	4.91	4.47	4.42	5.14	5.04	5.27

10.4.17 NR n77 (SA) (SRS#2_lower)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.23	0	
			1	137	6.83	0	
			1	271	6.70	0	
			135	0	5.21	0.5	
			135	69	6.80	0	
			135	138	5.81	0.5	
			270	0	5.78	0.5	
		QPSK	1	1	6.24	0	
			1	137	6.98	0	
			1	271	6.68	0	
			135	0	5.17	1	
			135	69	6.91	0	
			135	138	5.80	1	
			270	0	5.83	1	
	16QAM	1	1	5.32	1		
	64QAM	1	1	4.23	2.5		
256QAM	1	1	2.25	4.5			
CP-OFDM	QPSK	1	1	5.28	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.29	0	
			1	123	5.99	0	
			1	243	6.74	0	
			120	0	5.20	0.5	
			120	63	5.97	0	
			120	125	5.79	0.5	
			243	0	5.83	0.5	
		QPSK	1	1	6.32	0	
			1	123	6.05	0	
			1	243	6.78	0	
			120	0	5.20	1	
			120	63	5.97	0	
			120	125	5.86	1	
			243	0	5.91	1	
	16QAM	1	1	5.27	1		
	64QAM	1	1	4.18	2.5		
256QAM	1	1	2.23	4.5			
CP-OFDM	QPSK	1	1	5.23	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.20	0	
			1	109	5.92	0	
			1	215	6.71	0	
			108	0	5.10	0.5	
			108	55	5.89	0	
			108	109	5.83	0.5	
			216	0	5.89	0.5	
		QPSK	1	1	6.24	0	
			1	109	6.00	0	
			1	215	6.75	0	
			108	0	5.14	1	
			108	55	5.93	0	
			108	109	5.83	1	
			216	0	5.90	1	
		16QAM	1	1	5.28	1	
		64QAM	1	1	4.18	2.5	
256QAM	1	1	2.23	4.5			
CP-OFDM	QPSK	1	1	5.22	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.25	0	
			1	95	5.02	0	
			1	187	6.70	0	
			90	0	5.16	0.5	
			90	50	5.91	0	
			90	99	5.82	0.5	
			180	0	5.89	0.5	
		QPSK	1	1	6.27	0	
			1	95	5.05	0	
			1	187	6.77	0	
			90	0	5.18	1	
			90	50	5.94	0	
			90	99	5.88	1	
			180	0	5.92	1	
		16QAM	1	1	5.27	1	
		64QAM	1	1	4.18	2.5	
256QAM	1	1	2.22	4.5			
CP-OFDM	QPSK	1	1	5.21	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.26	0	
			1	81	5.94	0	
			1	160	6.78	0	
			81	0	5.10	0.5	
			81	41	5.94	0	
			81	81	5.88	0.5	
			162	0	5.88	0.5	
		QPSK	1	1	6.28	0	
			1	81	6.01	0	
			1	160	6.79	0	
			81	0	5.14	1	
			81	41	5.98	0	
			81	81	5.88	1	
			162	0	5.91	1	
		16QAM	1	1	5.27	1	
		64QAM	1	1	4.21	2.5	
256QAM	1	1	2.24	4.5			
CP-OFDM	QPSK	1	1	5.20	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR	
					631 668	635 000		
					3 475.02 MHz	3 525.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.24	6.20	0	
			1	67	5.98	6.88	0	
			1	131	6.72	6.70	0	
			64	0	5.27	5.15	0.5	
			64	35	5.97	6.87	0	
			64	69	5.86	5.78	0.5	
			128	0	5.06	5.75	0.5	
		QPSK	1	1	6.31	6.27	0	
			1	67	6.04	6.92	0	
			1	131	6.80	6.71	0	
			64	0	5.32	5.15	1	
			64	35	6.03	6.88	0	
			64	69	5.89	5.86	1	
			128	0	5.07	5.82	1	
		16QAM	1	1	5.09	5.91	1	
		64QAM	1	1	3.75	3.58	2.5	
		256QAM	1	1	1.98	1.79	4.5	
		CP-OFDM	QPSK	1	1	5.27	5.22	1.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 334	635 332	
					3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	6.71	6.74	0
			1	53	6.17	6.23	0
			1	104	6.59	6.38	0
			50	0	5.73	5.57	0.5
			50	28	6.28	6.33	0
			50	56	5.79	5.65	0.5
			100	0	5.32	5.39	0.5
		QPSK	1	1	6.69	6.79	0
			1	53	6.20	6.20	0
			1	104	6.57	6.33	0
			50	0	5.80	5.64	1
			50	28	6.32	6.33	0
			50	56	5.84	5.70	1
			100	0	5.38	5.42	1
		16QAM	1	1	5.40	5.22	1
		64QAM	1	1	4.05	3.86	2.5
256QAM	1	1	2.30	2.13	4.5		
CP-OFDM	QPSK	1	1	4.57	4.51	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631000	633334	635666	
					3465.00 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	6.69	6.58	6.66	0
			1	39	6.41	6.41	6.31	0
			1	76	6.20	6.08	6.09	0
			36	0	5.69	5.64	5.47	0.5
			36	21	6.42	6.38	6.28	0
			36	42	5.26	5.21	5.27	0.5
			75	0	5.46	5.35	5.20	0.5
		QPSK	1	1	6.72	6.64	6.68	0
			1	39	6.49	6.44	6.33	0
			1	76	6.26	6.16	6.13	0
			36	0	5.76	5.64	5.55	1
			36	21	6.43	6.38	6.28	0
			36	42	5.34	5.24	5.29	1
			75	0	5.47	5.37	5.22	1
		16QAM	1	1	5.36	5.61	5.22	1
		64QAM	1	1	4.05	4.47	3.92	2.5
256QAM	1	1	2.30	2.48	2.10	4.5		
CP-OFDM	QPSK	1	1	4.55	4.51	4.52	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 834	633 334	635 832	
					3 462.51 MHz	3 500.01 MHz	3 537.48 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.62	6.48	6.58	0
			1	33	6.33	6.35	6.22	0
			1	63	6.20	6.04	6.04	0
			32	0	5.64	5.65	5.49	0.5
			32	17	6.38	6.29	6.20	0
			32	33	5.17	5.12	5.23	0.5
		64	0	5.36	5.33	5.13	0.5	
		QPSK	1	1	6.71	6.65	6.68	0
			1	33	6.42	6.39	6.33	0
			1	63	6.24	6.15	6.10	0
			32	0	5.76	5.57	5.46	1
			32	17	6.39	6.36	6.22	0
			32	33	5.26	5.16	5.20	1
		64	0	5.37	5.34	5.20	1	
		16QAM	1	1	5.26	5.54	5.24	1
		64QAM	1	1	3.95	4.44	3.92	2.5
256QAM	1	1	2.25	2.46	2.04	4.5		
CP-OFDM	QPSK	1	1	4.50	4.42	4.46	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631000	633334	635666	
					3465.00 MHz	3500.01 MHz	3534.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.14	6.07	6.05	0
			1	26	5.88	5.87	6.72	0
			1	49	6.62	6.56	6.50	0
			25	0	5.18	5.03	4.95	0.5
			25	13	5.77	5.77	6.66	0
			25	26	5.65	5.62	5.64	0.5
		50	0	4.88	5.79	5.67	0.5	
		QPSK	1	1	6.15	6.08	6.13	0
			1	26	5.92	5.88	6.74	0
			1	49	6.64	6.64	6.54	0
			25	0	5.19	5.03	4.98	1
			25	13	5.83	5.79	6.69	0
			25	26	5.72	5.68	5.66	1
		50	0	4.90	5.80	5.67	1	
		16QAM	1	1	5.07	5.19	5.85	1
		64QAM	1	1	3.71	4.07	3.53	2.5
256QAM	1	1	1.92	2.11	1.72	4.5		
CP-OFDM	QPSK	1	1	5.21	5.16	5.21	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630500	633334	636166	
					3457.50 MHz	3500.01 MHz	3542.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.17	6.03	6.18	0
			1	19	5.92	5.84	6.78	0
			1	36	6.66	6.66	6.54	0
			18	0	5.23	4.95	5.03	0.5
			18	10	5.87	5.75	6.67	0
			18	20	5.67	5.67	5.66	0.5
		36	0	4.84	5.72	5.59	0.5	
		QPSK	1	1	6.10	6.02	6.13	0
			1	19	5.91	5.82	6.75	0
			1	36	6.64	6.57	6.57	0
			18	0	5.18	5.00	4.93	1
			18	10	5.75	5.72	6.72	0
			18	20	5.69	5.63	5.64	1
		36	0	4.89	5.75	5.61	1	
		16QAM	1	1	5.05	5.24	5.88	1
		64QAM	1	1	3.70	4.07	3.51	2.5
256QAM	1	1	1.90	2.12	1.76	4.5		
CP-OFDM	QPSK	1	1	5.20	5.14	5.14	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630334	633334	636322	
					3455.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.16	6.04	6.07	0
			1	12	5.87	5.90	6.77	0
			1	22	6.60	6.66	6.49	0
			12	0	5.15	5.05	5.01	0.5
			12	6	5.78	5.81	6.65	0
			12	12	5.68	5.69	5.60	0.5
		24	0	4.85	5.78	5.60	0.5	
		QPSK	1	1	6.10	6.00	6.10	0
			1	12	5.87	5.85	6.78	0
			1	22	6.69	6.56	6.55	0
			12	0	5.13	5.02	4.97	1
			12	6	5.87	5.80	6.70	0
			12	12	5.67	5.68	5.61	1
		24	0	4.94	5.78	5.64	1	
		16QAM	1	1	5.04	5.21	5.87	1
		64QAM	1	1	3.68	4.07	3.56	2.5
256QAM	1	1	1.90	2.10	1.71	4.5		
CP-OFDM	QPSK	1	1	5.21	5.19	5.16	1.5	

10.4.18 NR n77 (SA) (SRS#2_upper)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					650 000	662 000	
					3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.29	6.59	0
			1	137	6.86	6.81	0
			1	271	6.25	6.56	0
			135	0	6.03	5.82	0.5
			135	69	6.81	6.75	0
			135	138	5.53	5.01	0.5
		270	0	5.69	5.72	0.5	
		QPSK	1	1	6.31	6.61	0
			1	137	6.88	6.83	0
			1	271	6.30	6.63	0
			135	0	6.03	5.87	1
			135	69	6.85	6.91	0
			135	138	5.59	5.04	1
		270	0	5.77	5.73	1	
		16QAM	1	1	6.16	5.66	1
		64QAM	1	1	4.10	3.56	2.5
256QAM	1	1	2.11	1.59	4.5		
CP-OFDM	QPSK	1	1	5.17	4.90	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.05	6.94	6.63	0
			1	123	6.68	6.95	6.86	0
			1	243	6.04	6.42	6.68	0
			120	0	5.78	5.28	5.97	0.5
			120	63	6.58	6.88	6.83	0
			120	125	5.36	5.70	5.11	0.5
		243	0	5.52	5.81	5.76	0.5	
		QPSK	1	1	6.07	6.96	6.67	0
			1	123	6.64	6.97	6.88	0
			1	243	6.08	6.44	6.68	0
			120	0	5.78	5.25	5.96	1
			120	63	6.63	6.92	6.82	0
			120	125	5.34	5.66	5.13	1
		243	0	5.54	5.88	5.82	1	
		16QAM	1	1	5.93	5.02	5.71	1
		64QAM	1	1	3.85	3.84	3.61	2.5
256QAM	1	1	1.90	1.92	1.67	4.5		
CP-OFDM	QPSK	1	1	4.93	4.84	4.47	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.03	6.96	6.65	0
			1	109	6.67	6.90	6.89	0
			1	215	6.08	6.45	6.67	0
			108	0	5.76	5.26	5.97	0.5
			108	55	6.61	6.90	6.85	0
			108	109	5.33	5.67	5.11	0.5
		216	0	5.49	5.82	5.80	0.5	
		QPSK	1	1	6.03	6.90	6.69	0
			1	109	6.65	6.92	6.91	0
			1	215	6.05	6.42	6.67	0
			108	0	5.79	5.22	5.96	1
			108	55	6.62	6.90	6.83	0
			108	109	5.36	5.65	5.08	1
		216	0	5.50	5.84	5.81	1	
		16QAM	1	1	5.90	5.02	5.71	1
		64QAM	1	1	3.83	3.84	3.63	2.5
		256QAM	1	1	1.86	1.89	1.61	4.5
CP-OFDM	QPSK	1	1	4.90	4.82	4.53	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					649 000	653 666	658 334	663 000	
					3735.00 MHz	3804.99 MHz	3875.01 MHz	3945.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.11	5.98	6.48	6.66	0
			1	95	6.67	6.46	6.66	6.90	0
			1	187	6.06	5.76	6.40	6.67	0
			90	0	5.78	5.71	5.88	5.93	0.5
			90	50	6.57	6.51	6.60	6.86	0
			90	99	5.32	5.28	4.90	5.12	0.5
			180	0	5.53	5.40	5.81	5.79	0.5
		QPSK	1	1	6.09	5.85	6.58	6.64	0
			1	95	6.64	6.37	6.69	6.93	0
			1	187	6.09	5.96	6.48	6.69	0
			90	0	5.81	5.73	5.84	5.91	1
			90	50	6.59	6.62	6.63	6.85	0
			90	99	5.37	5.21	4.98	5.07	1
		180	0	5.51	5.38	5.81	5.81	1	
		16QAM	1	1	5.89	5.81	5.67	5.71	1
		64QAM	1	1	3.84	3.58	3.54	3.61	2.5
		256QAM	1	1	1.84	1.87	1.60	1.62	4.5
CP-OFDM	QPSK	1	1	4.92	4.77	4.55	4.53	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR	
					648668	653556	658444	663332		
					3730.02	3803.34	3876.66	3949.98		
					MHz	MHz	MHz	MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.30	5.97	6.44	6.84	0	
			1	81	6.84	6.45	6.81	6.03	0	
			1	160	6.32	5.99	6.56	6.90	0	
			81	0	5.05	5.74	5.82	5.10	0.5	
			81	41	6.82	6.35	6.59	6.17	0	
			81	81	5.61	5.13	5.11	5.29	0.5	
		QPSK	1	1	6.36	5.91	6.72	6.89	0	
			1	81	6.91	6.64	6.82	6.11	0	
			1	160	6.36	6.03	6.46	6.92	0	
			81	0	5.09	5.52	5.69	5.17	1	
			81	41	6.86	6.62	6.66	6.21	0	
			81	81	5.64	5.16	4.78	5.36	1	
		16QAM	162	0	5.78	5.35	5.67	5.09	1	
			16QAM	1	1	5.92	5.69	5.59	5.69	1
			64QAM	1	1	3.87	3.76	3.36	3.61	2.5
		256QAM	1	1	1.85	1.85	1.34	1.67	4.5	
		CP-OFDM	QPSK	1	1	4.95	4.94	4.36	4.49	1.5

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR	
					648334	652166	656000	659834	663666		
					3725.01	3782.49	3840.00	3897.51	3954.99		
					MHz	MHz	MHz	MHz	MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.35	6.09	6.15	6.66	6.81	0	
			1	67	6.83	6.50	6.15	6.63	6.05	0	
			1	131	6.33	5.95	6.53	6.62	6.90	0	
			64	0	5.05	5.57	5.44	5.72	5.10	0.5	
			64	35	6.82	6.58	6.10	6.60	6.16	0	
			64	69	5.58	5.05	5.88	5.08	5.34	0.5	
			128	0	5.70	5.40	4.96	5.81	5.04	0.5	
		QPSK	1	1	6.30	5.94	6.12	6.43	6.88	0	
			1	67	6.89	6.59	6.14	6.80	6.07	0	
			1	131	6.33	5.81	6.51	6.47	6.91	0	
			64	0	5.03	5.55	5.40	5.95	5.16	1	
			64	35	6.78	6.44	6.06	6.53	6.19	0	
			64	69	5.62	5.33	5.87	4.94	5.33	1	
		16QAM	128	0	5.72	5.26	5.02	5.78	5.09	1	
			16QAM	1	1	5.88	5.79	4.95	5.63	5.71	1
			64QAM	1	1	3.85	3.84	3.88	3.35	3.59	2.5
		256QAM	1	1	1.88	1.77	1.86	1.61	1.65	4.5	
CP-OFDM	QPSK	1	1	4.91	4.91	4.86	4.37	4.47	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					648000	651200	654400	657600	660800	664000	
					3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.47	6.03	6.13	5.96	6.36	6.96	0
			1	53	6.03	6.53	6.05	6.15	6.76	6.17	0
			1	104	6.44	5.87	6.34	6.26	6.70	6.96	0
			50	0	5.16	5.65	5.47	5.25	5.88	5.23	0.5
			50	28	6.92	6.27	5.83	6.13	6.70	6.33	0
			50	56	5.73	5.23	5.82	5.72	4.84	5.41	0.5
			100	0	5.89	5.28	4.73	4.88	5.73	5.13	0.5
		QPSK	1	1	6.45	5.88	5.95	5.98	6.47	6.98	0
			1	53	6.98	6.48	6.05	6.14	6.61	6.19	0
			1	104	6.41	5.84	6.49	6.23	6.43	6.97	0
			50	0	5.20	5.83	5.37	5.37	5.78	5.24	1
			50	28	6.96	6.49	5.90	6.04	6.58	6.33	0
			50	56	5.74	5.18	5.75	5.75	5.07	5.46	1
		100	0	5.83	5.40	4.89	4.86	5.80	5.21	1	
	16QAM	1	1	5.95	5.80	4.75	4.83	5.58	5.71	1	
64QAM	1	1	3.89	3.76	3.72	3.83	3.59	3.61	2.5		
256QAM	1	1	1.83	1.60	1.86	1.76	1.33	1.65	4.5		
CP-OFDM	QPSK	1	1	4.89	4.69	4.73	4.76	4.55	4.49	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647668	651000	654334	657666	661000	664332	
					3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.40	5.84	6.02	5.94	6.66	6.96	0
			1	39	6.92	6.49	6.04	6.16	6.86	6.13	0
			1	76	6.40	5.91	6.53	6.23	6.67	6.91	0
			36	0	5.14	5.61	5.20	5.44	5.90	5.21	0.5
			36	21	6.88	6.52	5.98	5.90	6.70	6.22	0
			36	42	5.66	5.11	5.91	5.75	5.04	5.43	0.5
			75	0	5.82	5.41	4.70	4.76	5.58	5.10	0.5
		QPSK	1	1	6.37	6.11	6.14	6.03	6.65	6.94	0
			1	39	6.98	6.36	6.13	5.94	6.72	6.12	0
			1	76	6.36	5.96	6.31	6.35	6.61	6.97	0
			36	0	5.08	5.59	5.21	5.38	5.75	5.18	1
			36	21	6.91	6.38	6.00	6.07	6.79	6.28	0
			36	42	5.70	5.14	5.84	5.71	4.91	5.35	1
			75	0	5.79	5.37	5.05	4.90	5.81	5.09	1
		16QAM	1	1	5.90	5.62	4.81	4.86	5.73	5.73	1
		64QAM	1	1	3.88	3.58	3.73	3.69	3.36	3.61	2.5
		256QAM	1	1	1.87	1.79	1.62	1.63	1.63	1.65	4.5
		CP-OFDM	QPSK	1	1	4.89	4.76	4.80	4.68	4.40	4.53

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 500	650 900	654 300	657 700	661 100	664 500	
					3 712.50 MHz	3 763.50 MHz	3 814.50 MHz	3 865.50 MHz	3 916.50 MHz	3 967.50 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.38	5.74	6.02	5.93	6.56	6.93	0
			1	33	6.83	6.46	5.94	6.17	6.78	6.11	0
			1	63	6.33	5.86	6.52	6.21	6.57	6.88	0
			32	0	5.12	5.59	5.22	5.36	5.81	5.19	0.5
			32	17	6.83	6.50	5.91	5.87	6.63	6.20	0
			32	33	5.65	5.03	5.93	5.77	5.03	5.44	0.5
			64	0	5.73	5.39	4.68	4.69	5.50	5.08	0.5
		QPSK	1	1	6.39	6.05	6.10	6.03	6.64	6.86	0
			1	33	6.89	6.33	6.14	5.95	6.71	6.06	0
			1	63	6.36	5.88	6.23	6.31	6.53	6.97	0
			32	0	5.04	5.58	5.16	5.31	5.77	5.11	1
			32	17	6.82	6.33	5.96	6.03	6.73	6.25	0
			32	33	5.72	5.13	5.79	5.64	4.85	5.37	1
			64	0	5.80	5.37	4.97	4.87	5.82	5.10	1
	16QAM	1	1	5.85	5.53	4.78	4.83	5.67	5.70	1	
64QAM	1	1	3.81	3.59	3.67	3.64	3.26	3.62	2.5		
256QAM	1	1	1.87	1.75	1.57	1.56	1.65	1.62	4.5		
CP-OFDM	QPSK	1	1	4.80	4.72	4.79	4.58	4.33	4.49	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647334	650800	654266	657734	661200	664666	
					3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.34	5.90	6.00	5.96	6.63	6.85	0
			1	26	6.87	6.63	6.01	5.97	6.90	6.07	0
			1	49	6.35	5.94	6.41	6.55	6.42	6.88	0
			25	0	5.08	5.81	5.38	5.34	5.87	5.11	0.5
			25	13	6.82	6.33	5.80	6.03	6.79	6.14	0
			25	26	5.64	5.20	5.67	5.91	5.14	5.28	0.5
			50	0	5.72	5.42	4.67	4.75	5.66	5.05	0.5
		QPSK	1	1	6.32	6.04	5.90	5.96	6.60	6.85	0
			1	26	6.87	6.44	6.02	6.05	6.64	6.06	0
			1	49	6.29	5.88	6.26	6.51	6.49	6.90	0
			25	0	5.02	5.71	5.15	5.29	5.81	5.15	1
			25	13	6.85	6.39	5.94	5.87	6.73	6.21	0
			25	26	5.57	5.39	5.57	5.67	4.86	5.31	1
			50	0	5.71	5.52	4.81	4.81	5.64	5.08	1
	16QAM	1	1	5.92	5.59	4.68	4.91	5.69	5.71	1	
64QAM	1	1	3.89	3.86	3.85	3.81	3.44	3.65	2.5		
256QAM	1	1	1.87	1.77	1.73	1.63	1.33	1.63	4.5		
CP-OFDM	QPSK	1	1	4.96	4.70	4.87	4.57	4.47	4.49	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647168	650700	654234	657766	661300	664832	
					3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.21	5.97	5.89	6.15	6.42	6.81	0
			1	19	6.79	6.56	6.00	6.03	6.91	6.04	0
			1	36	6.21	5.84	6.40	6.48	6.69	6.85	0
			18	0	4.97	5.70	5.17	5.29	5.73	5.07	0.5
			18	10	6.78	6.49	5.82	6.03	6.63	6.13	0
			18	20	5.55	5.20	5.78	5.85	5.12	5.28	0.5
			36	0	5.66	5.43	4.82	4.97	5.53	4.98	0.5
		QPSK	1	1	6.25	6.07	6.02	5.96	6.56	6.77	0
			1	19	6.78	6.36	6.17	6.14	6.69	6.00	0
			1	36	6.24	5.95	6.34	6.34	6.53	6.78	0
			18	0	4.99	5.51	5.24	5.36	5.75	5.07	1
			18	10	6.71	6.32	6.03	6.01	6.58	6.08	0
			18	20	5.49	5.24	5.85	5.90	4.79	5.26	1
			36	0	5.64	5.21	4.76	4.98	5.64	4.97	1
	16QAM	1	1	5.89	5.72	4.84	4.89	5.57	5.73	1	
64QAM	1	1	3.86	3.54	3.69	3.63	3.45	3.63	2.5		
256QAM	1	1	1.89	1.83	1.78	1.84	1.48	1.68	4.5		
CP-OFDM	QPSK	1	1	4.93	4.85	4.85	4.64	4.51	4.47	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647000	650600	654200	657800	661400	665000	
					3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	6.14	5.97	6.16	6.11	6.55	6.70	0
			1	12	6.67	6.64	6.06	6.11	6.64	5.91	0
			1	22	6.13	5.97	6.24	6.35	6.40	6.67	0
			12	0	4.85	5.61	5.24	5.26	5.69	4.96	0.5
			12	6	6.64	6.34	6.01	5.97	6.80	5.96	0
			12	12	5.40	5.03	5.90	5.80	5.00	5.12	0.5
			24	0	5.58	5.46	4.87	4.85	5.52	4.89	0.5
		QPSK	1	1	6.11	5.93	5.83	6.11	6.53	6.63	0
			1	12	6.70	6.62	5.84	5.90	6.81	5.89	0
			1	22	6.14	6.05	6.43	6.46	6.62	6.72	0
			12	0	4.84	5.56	5.38	5.13	5.67	4.90	1
			12	6	6.60	6.34	6.02	6.06	6.68	5.97	0
			12	12	5.45	5.36	5.78	5.88	4.80	5.16	1
			24	0	5.55	5.43	4.97	4.91	5.75	4.84	1
	16QAM	1	1	5.88	5.73	4.73	4.82	5.47	5.75	1	
64QAM	1	1	3.89	3.57	3.77	3.79	3.66	3.65	2.5		
256QAM	1	1	1.83	1.58	1.74	1.61	1.32	1.66	4.5		
CP-OFDM	QPSK	1	1	4.95	4.87	4.75	4.80	4.31	4.52	1.5	

10.4.19 NR n77 (SA) (SRS#3_lower)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.79	0	
			1	137	10.90	0	
			1	271	10.27	0	
			135	0	8.99	0.5	
			135	69	10.88	0	
			135	138	9.18	0.5	
			270	0	9.87	0.5	
		QPSK	1	1	10.82	0	
			1	137	10.93	0	
			1	271	10.31	0	
			135	0	9.02	1	
			135	69	10.91	0	
			135	138	9.19	1	
			270	0	9.88	1	
		16QAM	1	1	9.91	1	
		64QAM	1	1	7.86	2.5	
		256QAM	1	1	5.87	4.5	
CP-OFDM	QPSK	1	1	8.88	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.69	0	
			1	123	10.88	0	
			1	243	10.18	0	
			120	0	8.94	0.5	
			120	63	10.86	0	
			120	125	9.17	0.5	
			243	0	9.86	0.5	
		QPSK	1	1	10.72	0	
			1	123	10.87	0	
			1	243	10.29	0	
			120	0	9.00	1	
			120	63	10.88	0	
			120	125	9.13	1	
			243	0	9.82	1	
		16QAM	1	1	9.83	1	
		64QAM	1	1	7.76	2.5	
		256QAM	1	1	5.87	4.5	
CP-OFDM	QPSK	1	1	8.86	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.73	0	
			1	109	10.83	0	
			1	215	10.20	0	
			108	0	8.93	0.5	
			108	55	10.81	0	
			108	109	9.10	0.5	
			216	0	9.77	0.5	
		QPSK	1	1	10.73	0	
			1	109	10.83	0	
			1	215	10.23	0	
			108	0	8.95	1	
			108	55	10.82	0	
			108	109	9.16	1	
		216	0	9.82	1		
		16QAM	1	1	9.84	1	
		64QAM	1	1	7.84	2.5	
		256QAM	1	1	5.86	4.5	
CP-OFDM	QPSK	1	1	8.78	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.74	0	
			1	95	10.88	0	
			1	187	10.26	0	
			90	0	8.89	0.5	
			90	50	10.84	0	
			90	99	9.14	0.5	
			180	0	9.78	0.5	
		QPSK	1	1	10.79	0	
			1	95	10.92	0	
			1	187	10.27	0	
			90	0	8.99	1	
			90	50	10.90	0	
			90	99	9.15	1	
		180	0	9.85	1		
		16QAM	1	1	9.91	1	
		64QAM	1	1	7.84	2.5	
		256QAM	1	1	5.81	4.5	
CP-OFDM	QPSK	1	1	8.78	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.73	0	
			1	81	10.86	0	
			1	160	10.17	0	
			81	0	8.95	0.5	
			81	41	10.80	0	
			81	81	9.11	0.5	
			162	0	9.78	0.5	
		QPSK	1	1	10.73	0	
			1	81	10.91	0	
			1	160	10.24	0	
			81	0	9.01	1	
			81	41	10.87	0	
			81	81	9.09	1	
			162	0	9.85	1	
		16QAM	1	1	9.85	1	
		64QAM	1	1	7.78	2.5	
		256QAM	1	1	5.82	4.5	
CP-OFDM	QPSK	1	1	8.87	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 668	635 000	
					3 475.02 MHz	3 525.00 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.79	10.61	0
			1	67	10.02	10.66	0
			1	131	10.15	10.02	0
			64	0	9.89	9.54	0.5
			64	35	10.00	10.57	0
			64	69	9.09	9.81	0.5
			128	0	8.99	9.57	0.5
		QPSK	1	1	10.83	10.63	0
			1	67	10.05	10.67	0
			1	131	10.20	10.06	0
			64	0	9.93	9.60	1
			64	35	10.03	10.60	0
			64	69	9.15	9.84	1
			128	0	9.03	9.59	1
		16QAM	1	1	9.82	9.66	1
		64QAM	1	1	7.77	7.57	2.5
		256QAM	1	1	5.78	5.61	4.5
CP-OFDM	QPSK	1	1	8.80	8.64	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 334	635 332	
					3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.79	10.56	0
			1	53	9.92	10.61	0
			1	104	10.07	9.95	0
			50	0	9.79	9.48	0.5
			50	28	9.99	10.48	0
			50	56	9.02	9.81	0.5
			100	0	8.93	9.51	0.5
		QPSK	1	1	10.82	10.54	0
			1	53	9.96	10.57	0
			1	104	10.12	9.96	0
			50	0	9.93	9.51	1
			50	28	9.94	10.55	0
			50	56	9.14	9.83	1
		100	0	8.93	9.55	1	
		16QAM	1	1	9.75	9.63	1
		64QAM	1	1	7.68	7.51	2.5
256QAM	1	1	5.69	5.59	4.5		
CP-OFDM	QPSK	1	1	8.72	8.54	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631000	633334	635666	
					3465.00 MHz	3500.01 MHz	3534.99 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.79	10.70	10.61	0
			1	39	10.01	10.79	10.65	0
			1	76	10.15	10.16	9.94	0
			36	0	9.81	8.93	9.54	0.5
			36	21	10.00	10.73	10.50	0
			36	42	9.02	9.09	9.81	0.5
			75	0	8.93	9.69	9.54	0.5
		QPSK	1	1	10.82	10.72	10.60	0
			1	39	9.99	10.91	10.62	0
			1	76	10.13	10.16	10.03	0
			36	0	9.85	8.93	9.50	1
			36	21	9.93	10.81	10.51	0
			36	42	9.13	9.05	9.78	1
		75	0	8.98	9.79	9.54	1	
		16QAM	1	1	9.76	9.79	9.56	1
		64QAM	1	1	7.70	7.76	7.54	2.5
256QAM	1	1	5.76	5.81	5.51	4.5		
CP-OFDM	QPSK	1	1	8.72	8.85	8.56	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 834	633 334	635 832	
					3 462.51 MHz	3 500.01 MHz	3 537.48 MHz	
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	10.79	10.69	10.55	0
			1	33	9.98	10.76	10.62	0
			1	63	10.06	10.18	9.86	0
			32	0	9.71	8.90	9.49	0.5
			32	17	10.02	10.63	10.51	0
			32	33	8.93	9.07	9.76	0.5
		64	0	8.90	9.62	9.47	0.5	
		QPSK	1	1	10.74	10.73	10.58	0
			1	33	9.89	10.91	10.57	0
			1	63	10.07	10.08	9.95	0
			32	0	9.78	8.93	9.48	1
			32	17	9.94	10.79	10.49	0
			32	33	9.09	8.98	9.69	1
		64	0	8.90	9.70	9.56	1	
		16QAM	1	1	9.72	9.79	9.52	1
		64QAM	1	1	7.65	7.77	7.52	2.5
256QAM	1	1	5.78	5.77	5.43	4.5		
CP-OFDM	QPSK	1	1	8.72	8.79	8.52	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631000	633334	635666	
					3465.00 MHz	3500.01 MHz	3534.99 MHz	
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	10.72	10.72	10.61	0
			1	26	10.00	10.86	10.62	0
			1	49	10.09	10.12	10.00	0
			25	0	9.81	8.88	9.52	0.5
			25	13	9.92	10.70	10.56	0
			25	26	9.00	9.01	9.73	0.5
		50	0	8.93	9.74	9.54	0.5	
		QPSK	1	1	10.74	10.66	10.55	0
			1	26	9.99	10.86	10.60	0
			1	49	10.14	10.21	9.96	0
			25	0	9.88	8.91	9.58	1
			25	13	9.97	10.86	10.58	0
			25	26	9.08	9.04	9.83	1
		50	0	8.95	9.77	9.55	1	
		16QAM	1	1	9.80	9.83	9.57	1
		64QAM	1	1	7.68	7.74	7.47	2.5
256QAM	1	1	5.68	5.75	5.55	4.5		
CP-OFDM	QPSK	1	1	8.78	8.84	8.55	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630500	633334	636166	
					3457.50 MHz	3500.01 MHz	3542.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.71	10.72	10.58	0
			1	19	10.00	10.77	10.61	0
			1	36	10.06	10.15	9.92	0
			18	0	9.87	8.89	9.50	0.5
			18	10	9.95	10.80	10.54	0
			18	20	9.09	9.09	9.81	0.5
		36	0	8.91	9.68	9.53	0.5	
		QPSK	1	1	10.83	10.67	10.54	0
			1	19	10.01	10.86	10.66	0
			1	36	10.18	10.21	10.03	0
			18	0	9.86	8.93	9.57	1
			18	10	9.96	10.87	10.55	0
			18	20	9.10	9.09	9.78	1
		36	0	9.02	9.78	9.51	1	
		16QAM	1	1	9.74	9.84	9.59	1
		64QAM	1	1	7.76	7.73	7.50	2.5
256QAM	1	1	5.72	5.82	5.60	4.5		
CP-OFDM	QPSK	1	1	8.73	8.82	8.61	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630334	633334	636322	
					3455.01 MHz	3500.01 MHz	3544.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.77	10.63	10.52	0
			1	12	9.95	10.77	10.63	0
			1	22	10.05	10.09	10.00	0
			12	0	9.87	8.94	9.52	0.5
			12	6	9.98	10.78	10.54	0
			12	12	9.03	9.08	9.75	0.5
		24	0	8.90	9.73	9.52	0.5	
		QPSK	1	1	10.73	10.63	10.54	0
			1	12	10.03	10.84	10.65	0
			1	22	10.20	10.21	10.06	0
			12	0	9.89	8.96	9.57	1
			12	6	9.99	10.79	10.51	0
			12	12	9.09	9.06	9.74	1
		24	0	8.99	9.75	9.55	1	
		16QAM	1	1	9.82	9.79	9.64	1
		64QAM	1	1	7.77	7.75	7.50	2.5
256QAM	1	1	5.78	5.80	5.53	4.5		
CP-OFDM	QPSK	1	1	8.79	8.78	8.63	1.5	

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Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					650 000	662 000	
					3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.81	10.68	0
			1	137	10.07	10.88	0
			1	271	10.12	10.69	0
			135	0	10.37	9.93	0.5
			135	69	10.04	10.86	0
			135	138	9.58	10.11	0.5
			270	0	9.97	9.80	0.5
		QPSK	1	1	10.36	10.70	0
			1	137	10.07	10.95	0
			1	271	10.13	10.72	0
			135	0	9.35	9.94	1
			135	69	10.30	10.86	0
			135	138	9.56	9.12	1
			270	0	9.97	9.81	1
		16QAM	1	1	9.82	9.70	1
		64QAM	1	1	7.74	7.63	2.5
		256QAM	1	1	5.75	5.62	4.5
CP-OFDM	QPSK	1	1	8.76	8.64	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.59	10.11	10.49	0
			1	123	9.80	10.02	10.64	0
			1	243	9.90	10.27	10.53	0
			120	0	10.27	9.26	9.78	0.5
			120	63	9.89	9.99	10.76	0
			120	125	9.33	9.62	10.10	0.5
			243	0	9.82	8.90	9.60	0.5
		QPSK	1	1	10.36	10.17	10.41	0
			1	123	10.01	10.04	10.89	0
			1	243	9.95	10.33	10.63	0
			120	0	9.29	9.31	9.82	1
			120	63	10.10	10.05	10.78	0
			120	125	9.48	9.68	8.98	1
			243	0	9.92	8.96	9.71	1
		16QAM	1	1	9.56	9.21	9.56	1
		64QAM	1	1	7.56	8.12	7.37	2.5
		256QAM	1	1	5.50	6.12	5.46	4.5
CP-OFDM	QPSK	1	1	8.63	9.15	8.42	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.67	9.89	10.60	0
			1	109	9.78	9.95	10.82	0
			1	215	9.90	10.04	10.50	0
			108	0	10.24	9.20	9.70	0.5
			108	55	9.98	9.71	10.69	0
			108	109	9.42	9.44	9.84	0.5
		216	0	9.82	8.81	9.53	0.5	
		QPSK	1	1	10.36	10.08	10.62	0
			1	109	9.94	9.89	10.74	0
			1	215	10.10	10.14	10.60	0
			108	0	9.31	9.20	9.76	1
			108	55	10.08	9.94	10.63	0
			108	109	9.42	9.61	9.02	1
		216	0	9.70	8.72	9.69	1	
		16QAM	1	1	9.83	9.16	9.66	1
		64QAM	1	1	7.44	7.95	7.33	2.5
256QAM	1	1	5.69	5.94	5.49	4.5		
CP-OFDM	QPSK	1	1	8.75	9.02	8.51	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					649000	653666	658334	663000	
					3735.00 MHz	3804.99 MHz	3875.01 MHz	3945.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.66	10.77	10.66	10.59	0
			1	95	10.07	9.77	10.72	10.58	0
			1	187	9.99	10.06	10.41	10.46	0
			90	0	10.26	10.32	9.90	9.73	0.5
			90	50	9.87	9.91	10.68	10.69	0
			90	99	9.38	9.41	9.93	9.93	0.5
		180	0	9.93	9.96	9.50	9.72	0.5	
		QPSK	1	1	10.13	10.06	10.40	10.58	0
			1	95	9.91	9.88	10.89	10.72	0
			1	187	9.93	9.99	10.61	10.56	0
			90	0	9.23	9.09	9.73	9.91	1
			90	50	10.24	10.30	10.62	10.74	0
			90	99	9.47	9.49	9.11	9.05	1
		180	0	9.91	9.89	9.69	9.68	1	
		16QAM	1	1	9.69	9.58	9.65	9.54	1
		64QAM	1	1	7.50	7.73	7.40	7.61	2.5
256QAM	1	1	5.68	5.62	5.47	5.61	4.5		
CP-OFDM	QPSK	1	1	8.66	8.49	8.46	8.46	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR	
					648668	653556	658444	663332		
					3730.02	3803.34	3876.66	3949.98		
					MHz	MHz	MHz	MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.56	10.66	10.42	10.47	0	
			1	81	9.92	9.81	10.59	10.87	0	
			1	160	10.01	10.13	10.65	10.46	0	
			81	0	10.31	10.27	9.92	9.86	0.5	
			81	41	10.03	9.83	10.74	10.59	0	
			81	81	9.52	9.54	9.85	10.01	0.5	
		162	0	9.77	9.99	9.57	9.64	0.5		
		QPSK	1	1	10.39	10.12	10.60	10.44	0	
			1	81	10.04	9.85	10.85	10.84	0	
			1	160	10.14	10.04	10.46	10.70	0	
			81	0	9.09	9.34	9.93	9.87	1	
			81	41	10.17	10.23	10.62	10.71	0	
			81	81	9.46	9.29	9.02	9.04	1	
		162	0	9.94	9.91	9.67	9.62	1		
		16QAM	1	1	9.66	9.78	9.60	9.40	1	
		64QAM	1	1	7.58	7.60	7.39	7.58	2.5	
256QAM	1	1	5.77	5.45	5.47	5.47	4.5			
CP-OFDM	QPSK	1	1	8.79	8.68	8.42	8.51	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR	
					648334	652166	656000	659834	663666		
					3725.01	3782.49	3840.00	3897.51	3954.99		
					MHz	MHz	MHz	MHz	MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.69	10.61	10.10	10.46	10.44	0	
			1	67	9.78	10.02	10.00	10.82	10.63	0	
			1	131	9.94	9.97	10.17	10.47	10.66	0	
			64	0	10.21	10.20	9.18	9.85	9.72	0.5	
			64	35	10.05	9.96	9.74	10.69	10.57	0	
			64	69	9.45	9.35	9.37	9.95	9.99	0.5	
		128	0	9.67	9.91	8.89	9.55	9.69	0.5		
		QPSK	1	1	10.15	10.37	10.01	10.44	10.44	0	
			1	67	9.90	9.99	9.87	10.84	10.66	0	
			1	131	9.91	9.90	10.12	10.70	10.51	0	
			64	0	9.28	9.32	9.14	9.79	9.72	1	
			64	35	10.16	10.19	9.91	10.70	10.75	0	
			64	69	9.53	9.40	9.38	8.89	8.96	1	
		128	0	9.75	9.68	8.92	9.77	9.60	1		
		16QAM	1	1	9.82	9.53	9.13	9.47	9.69	1	
		64QAM	1	1	7.73	7.56	7.86	7.53	7.61	2.5	
256QAM	1	1	5.69	5.55	6.05	5.36	5.58	4.5			
CP-OFDM	QPSK	1	1	8.48	8.70	8.89	8.57	8.38	1.5		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					648000	651200	654400	657600	660800	664000	
					3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.70	10.84	9.84	10.55	10.10	10.61	0
			1	53	9.97	10.03	9.86	10.58	9.95	10.72	0
			1	104	10.11	10.02	10.16	10.68	10.19	10.61	0
			50	0	10.18	10.38	9.25	9.67	9.20	9.77	0.5
			50	28	9.93	9.76	9.82	10.57	9.87	10.75	0
			50	56	9.50	9.51	9.59	9.89	9.54	9.87	0.5
			100	0	9.76	9.97	8.83	9.51	8.75	9.64	0.5
		QPSK	1	1	10.35	10.10	10.12	10.44	9.95	10.44	0
			1	53	9.88	10.10	9.81	10.85	9.95	10.71	0
			1	104	10.06	10.00	10.12	10.64	10.04	10.42	0
			50	0	9.37	9.16	9.13	9.88	9.18	9.77	1
			50	28	10.12	10.26	9.98	10.57	9.87	10.70	0
			50	56	9.32	9.59	9.45	8.91	9.41	8.92	1
			100	0	9.76	9.68	8.92	9.75	8.84	9.61	1
	16QAM	1	1	9.84	9.82	9.07	9.54	9.19	9.69	1	
	64QAM	1	1	7.68	7.61	7.97	7.42	7.94	7.61	2.5	
256QAM	1	1	5.53	5.67	5.94	5.44	5.96	5.51	4.5		
CP-OFDM	QPSK	1	1	8.69	8.50	8.99	8.60	9.09	8.63	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647668	651000	654334	657666	661000	664332	
					3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.54	10.54	9.90	9.86	10.56	10.57	0
			1	39	10.08	10.09	9.89	9.76	10.58	10.77	0
			1	76	10.05	10.02	10.16	10.22	10.55	10.47	0
			36	0	10.18	10.40	9.05	9.05	9.86	9.92	0.5
			36	21	10.01	9.89	9.98	9.82	10.81	10.60	0
			36	42	9.36	9.44	9.48	9.33	10.04	9.90	0.5
			75	0	9.86	9.67	8.72	8.63	9.61	9.78	0.5
		QPSK	1	1	10.39	10.35	9.99	10.10	10.68	10.64	0
			1	39	10.03	10.06	9.81	9.94	10.87	10.67	0
			1	76	10.07	9.84	10.07	10.19	10.55	10.62	0
			36	0	9.35	9.17	9.17	9.16	9.80	9.64	1
			36	21	10.24	10.33	10.02	9.86	10.66	10.74	0
			36	42	9.27	9.54	9.50	9.61	8.87	8.92	1
			75	0	9.87	9.83	8.85	8.81	9.74	9.58	1
	16QAM	1	1	9.82	9.72	9.07	8.94	9.68	9.53	1	
	64QAM	1	1	7.61	7.73	7.92	8.08	7.36	7.40	2.5	
256QAM	1	1	5.62	5.45	5.89	6.00	5.58	5.39	4.5		
CP-OFDM	QPSK	1	1	8.78	8.47	8.98	8.97	8.60	8.55	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 500	650 900	654 300	657 700	661 100	664 500	
					3 712.50 MHz	3 763.50 MHz	3 814.50 MHz	3 865.50 MHz	3 916.50 MHz	3 967.50 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.50	10.51	9.84	9.77	10.54	10.49	0
			1	33	10.05	10.03	9.81	9.73	10.52	10.79	0
			1	63	10.02	9.94	10.06	10.12	10.53	10.38	0
			32	0	10.12	10.36	9.00	8.98	9.87	9.82	0.5
			32	17	10.02	9.88	9.96	9.75	10.83	10.60	0
			32	33	9.35	9.39	9.40	9.31	9.99	9.80	0.5
		64	0	9.78	9.66	8.68	8.64	9.56	9.69	0.5	
		QPSK	1	1	10.29	10.26	9.98	10.06	10.62	10.66	0
			1	33	9.93	10.01	9.71	9.86	10.80	10.68	0
			1	63	10.03	9.84	10.09	10.14	10.52	10.53	0
			32	0	9.30	9.11	9.10	9.18	9.77	9.66	1
			32	17	10.16	10.30	10.02	9.83	10.61	10.64	0
	32		33	9.25	9.44	9.50	9.57	8.86	8.89	1	
	64	0	9.85	9.76	8.81	8.82	9.71	9.52	1		
	16QAM	1	1	9.77	9.67	8.98	8.89	9.62	9.52	1	
	64QAM	1	1	7.62	7.64	7.94	8.03	7.28	7.31	2.5	
256QAM	1	1	5.64	5.41	5.82	6.01	5.53	5.37	4.5		
CP-OFDM	QPSK	1	1	8.70	8.46	8.98	8.95	8.62	8.52	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647334	650800	654266	657734	661200	664666	
					3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.66	10.62	10.03	10.45	10.05	10.43	0
			1	26	10.10	9.91	9.79	10.68	9.83	10.58	0
			1	49	10.05	9.94	10.08	10.55	10.15	10.57	0
			25	0	10.19	10.34	9.16	9.67	9.10	9.66	0.5
			25	13	9.88	9.81	9.96	10.64	9.71	10.79	0
			25	26	9.46	9.40	9.38	10.10	9.37	9.98	0.5
		50	0	9.79	9.93	8.88	9.62	8.72	9.55	0.5	
		QPSK	1	1	10.09	10.39	10.12	10.50	10.13	10.61	0
			1	26	10.07	10.08	9.85	10.77	9.84	10.82	0
			1	49	9.94	9.93	10.22	10.56	10.32	10.57	0
			25	0	9.11	9.11	9.29	9.67	9.07	9.72	1
			25	13	10.04	10.01	9.93	10.63	9.89	10.70	0
	25		26	9.36	9.27	9.44	9.09	9.53	8.85	1	
	50	0	9.93	9.92	8.78	9.52	8.86	9.73	1		
	16QAM	1	1	9.55	9.83	8.91	9.66	9.07	9.44	1	
	64QAM	1	1	7.75	7.74	8.05	7.53	7.86	7.61	2.5	
256QAM	1	1	5.48	5.71	6.11	5.37	6.01	5.38	4.5		
CP-OFDM	QPSK	1	1	8.72	8.76	8.96	8.37	9.08	8.40	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647168	650700	654234	657766	661300	664832	
					3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.52	10.51	9.84	10.39	9.93	10.47	0
			1	19	9.98	9.94	9.96	10.62	9.72	10.82	0
			1	36	9.85	9.84	10.11	10.63	10.07	10.48	0
			18	0	10.07	10.34	9.22	9.70	8.99	9.73	0.5
			18	10	9.90	9.85	9.84	10.61	9.88	10.57	0
			18	20	9.34	9.31	9.42	9.97	9.36	9.90	0.5
			36	0	9.76	9.77	8.72	9.73	8.89	9.59	0.5
		QPSK	1	1	10.07	10.06	9.87	10.63	10.06	10.69	0
			1	19	10.07	10.00	9.78	10.77	10.03	10.92	0
			1	36	10.07	9.92	10.12	10.71	10.12	10.55	0
			18	0	9.16	9.24	9.11	9.64	9.26	9.77	1
			18	10	10.06	10.23	9.83	10.68	10.01	10.76	0
			18	20	9.38	9.29	9.66	9.03	9.52	8.85	1
			36	0	9.70	9.87	8.80	9.79	8.72	9.71	1
	16QAM	1	1	9.62	9.76	9.10	9.47	9.13	9.62	1	
64QAM	1	1	7.70	7.56	7.91	7.44	7.82	7.61	2.5		
256QAM	1	1	5.48	5.53	5.99	5.42	6.06	5.36	4.5		
CP-OFDM	QPSK	1	1	8.61	8.77	8.85	8.49	9.02	8.44	1.5	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647000	650600	654200	657800	661400	665000	
					3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.67	10.69	9.90	9.84	10.58	9.85	0
			1	12	9.96	9.78	9.91	9.93	10.58	9.73	0
			1	22	9.84	9.85	10.20	10.07	10.46	10.04	0
			12	0	10.26	10.08	9.02	8.96	9.64	9.23	0.5
			12	6	10.06	9.80	9.95	9.90	10.66	9.93	0
			12	12	9.45	9.61	9.33	9.48	10.06	9.54	0.5
			24	0	9.87	9.93	8.79	8.70	9.72	8.68	0.5
		QPSK	1	1	10.25	10.12	10.09	10.12	10.41	10.03	0
			1	12	9.78	9.87	9.86	9.92	10.73	10.03	0
			1	22	9.87	10.00	10.32	10.28	10.49	10.12	0
			12	0	9.24	9.10	9.26	9.17	9.72	9.07	1
			12	6	10.24	10.10	10.00	9.79	10.82	9.96	0
			12	12	9.29	9.52	9.38	9.41	8.93	9.54	1
			24	0	9.95	9.77	8.82	8.85	9.52	8.91	1
	16QAM	1	1	9.81	9.59	9.11	8.93	9.58	8.96	1	
64QAM	1	1	7.54	7.63	7.97	8.03	7.37	8.09	2.5		
256QAM	1	1	5.49	5.68	6.04	5.98	5.36	6.06	4.5		
CP-OFDM	QPSK	1	1	8.68	8.58	9.10	8.90	8.51	8.90	1.5	

10.5 LTE Average Conducted Output Power(Back-off_Grip Sensor)

10.5.2 LTE Band 2 (Sub1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 700	18 900	19 100	
				1 860.0 MHz	1 880.0 MHz	1 900.0 MHz	
20 MHz	QPSK	1	0	14.45	14.39	14.25	0
		1	49	14.28	14.35	14.24	0
		1	99	14.32	14.22	14.12	0
		50	0	14.46	14.44	14.36	0
		50	24	14.44	14.37	14.32	0
		50	50	14.37	14.32	14.31	0
		100	0	14.43	14.37	14.30	0
	16QAM	1	0	14.64	14.60	14.51	0
		1	49	14.50	14.42	14.45	0
		1	99	14.50	14.39	14.42	0
		50	0	14.52	14.37	14.34	0
		50	24	14.42	14.30	14.34	0
		50	50	14.42	14.30	14.27	0
		100	0	14.49	14.32	14.31	0
	64QAM	1	0	14.70	14.41	14.42	0
		1	49	14.59	14.43	14.46	0
		1	99	14.49	14.36	14.39	0
		50	0	14.49	14.36	14.34	0
		50	24	14.51	14.32	14.28	0
		50	50	14.43	14.38	14.27	0
		100	0	14.47	14.41	14.28	0
	256QAM	1	0	14.56	14.51	14.45	0
		1	49	14.42	14.46	14.40	0
		1	99	14.45	14.25	14.43	0
		50	0	14.52	14.37	14.31	0
		50	24	14.51	14.32	14.30	0
		50	50	14.51	14.33	14.30	0
		100	0	14.47	14.35	14.34	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 675	18 900	19 125	
				1 857.5 MHz	1 880.0 MHz	1 902.5 MHz	
15 MHz	QPSK	1	0	14.48	14.38	14.20	0
		1	36	14.17	14.25	14.17	0
		1	74	14.23	14.14	14.06	0
		36	0	14.47	14.44	14.32	0
		36	18	14.47	14.44	14.41	0
		36	37	14.47	14.37	14.39	0
		75	0	14.51	14.42	14.35	0
	16QAM	1	0	14.63	14.54	14.40	0
		1	36	14.57	14.52	14.53	0
		1	74	14.52	14.42	14.38	0
		36	0	14.58	14.45	14.43	0
		36	18	14.52	14.43	14.50	0
		36	37	14.44	14.30	14.28	0
		75	0	14.64	14.39	14.32	0
	64QAM	1	0	14.64	14.66	14.66	0
		1	36	14.49	14.36	14.42	0
		1	74	14.53	14.39	14.48	0
		36	0	14.60	14.46	14.49	0
		36	18	14.68	14.42	14.43	0
		36	37	14.45	14.36	14.28	0
		75	0	14.47	14.37	14.29	0
	256QAM	1	0	14.75	14.70	14.58	0
		1	36	14.41	14.47	14.42	0
		1	74	14.59	14.37	14.49	0
		36	0	14.66	14.50	14.40	0
		36	18	14.65	14.45	14.45	0
		36	37	14.58	14.42	14.41	0
		75	0	14.50	14.45	14.40	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 650	18 900	19 150	
				1 855.0 MHz	1 880.0 MHz	1 905.0 MHz	
10 MHz	QPSK	1	0	14.48	14.39	14.25	0
		1	25	14.16	14.28	14.16	0
		1	49	14.41	14.36	14.26	0
		25	0	14.49	14.42	14.35	0
		25	12	14.45	14.39	14.29	0
		25	25	14.36	14.37	14.36	0
		50	0	14.51	14.42	14.41	0
	16QAM	1	0	14.66	14.66	14.55	0
		1	25	14.61	14.59	14.66	0
		1	49	14.67	14.58	14.57	0
		25	0	14.56	14.44	14.36	0
		25	12	14.53	14.45	14.54	0
		25	25	14.55	14.42	14.38	0
		50	0	14.67	14.46	14.44	0
	64QAM	1	0	14.82	14.69	14.74	0
		1	25	14.76	14.56	14.62	0
		1	49	14.80	14.64	14.65	0
		25	0	14.53	14.41	14.43	0
		25	12	14.63	14.48	14.43	0
		25	25	14.47	14.38	14.27	0
		50	0	14.57	14.46	14.36	0
	256QAM	1	0	14.63	14.61	14.62	0
		1	25	14.35	14.35	14.30	0
		1	49	14.57	14.37	14.52	0
		25	0	14.66	14.48	14.43	0
		25	12	14.63	14.38	14.31	0
		25	25	14.56	14.38	14.31	0
		50	0	14.61	14.44	14.42	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 625	18 900	19 175	
				1 852.5 MHz	1 880.0 MHz	1 907.5 MHz	
5 MHz	QPSK	1	0	14.50	14.40	14.22	0
		1	12	14.46	14.51	14.42	0
		1	24	14.49	14.37	14.20	0
		12	0	14.44	14.47	14.40	0
		12	7	14.46	14.44	14.35	0
		12	13	14.43	14.42	14.40	0
		25	0	14.52	14.40	14.33	0
	16QAM	1	0	14.62	14.52	14.50	0
		1	12	14.65	14.61	14.66	0
		1	24	14.70	14.62	14.60	0
		12	0	14.62	14.46	14.46	0
		12	7	14.48	14.38	14.35	0
		12	13	14.54	14.39	14.36	0
		25	0	14.56	14.41	14.42	0
	64QAM	1	0	14.82	14.68	14.68	0
		1	12	14.66	14.54	14.58	0
		1	24	14.60	14.47	14.46	0
		12	0	14.64	14.47	14.46	0
		12	7	14.66	14.44	14.40	0
		12	13	14.39	14.39	14.25	0
		25	0	14.51	14.44	14.30	0
	256QAM	1	0	14.56	14.48	14.48	0
		1	12	14.47	14.59	14.50	0
		1	24	14.69	14.51	14.70	0
		12	0	14.63	14.42	14.37	0
		12	7	14.61	14.43	14.38	0
		12	13	14.60	14.39	14.35	0
		25	0	14.48	14.37	14.37	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 615	18 900	19 185	
				1 851.5 MHz	1 880.0 MHz	1 908.5 MHz	
3 MHz	QPSK	1	0	14.36	14.37	14.19	0
		1	8	14.30	14.34	14.20	0
		1	14	14.48	14.40	14.29	0
		8	0	14.36	14.31	14.17	0
		8	4	14.39	14.38	14.30	0
		8	7	14.43	14.42	14.42	0
		15	0	14.50	14.44	14.35	0
	16QAM	1	0	14.61	14.61	14.51	0
		1	8	14.64	14.52	14.49	0
		1	14	14.68	14.59	14.56	0
		8	0	14.49	14.38	14.34	0
		8	4	14.43	14.35	14.31	0
		8	7	14.57	14.43	14.34	0
		15	0	14.54	14.41	14.41	0
	64QAM	1	0	14.75	14.62	14.65	0
		1	8	14.73	14.52	14.55	0
		1	14	14.81	14.65	14.70	0
		8	0	14.42	14.34	14.37	0
		8	4	14.50	14.35	14.27	0
		8	7	14.43	14.42	14.29	0
		15	0	14.46	14.38	14.29	0
	256QAM	1	0	14.59	14.55	14.54	0
		1	8	14.33	14.40	14.36	0
		1	14	14.75	14.50	14.71	0
		8	0	14.64	14.42	14.38	0
		8	4	14.63	14.39	14.39	0
		8	7	14.54	14.39	14.38	0
		15	0	14.55	14.40	14.42	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				18 607	18 900	19 193	
				1 850.7 MHz	1 880.0 MHz	1 909.3 MHz	
1.4 MHz	QPSK	1	0	14.30	14.17	14.00	0
		1	3	14.18	14.26	14.08	0
		1	5	14.41	14.32	14.27	0
		3	0	14.25	14.26	14.15	0
		3	1	14.27	14.20	14.14	0
		3	3	14.29	14.26	14.22	0
		6	0	14.45	14.33	14.32	0
	16QAM	1	0	14.42	14.38	14.35	0
		1	3	14.43	14.39	14.49	0
		1	5	14.68	14.55	14.60	0
		3	0	14.49	14.34	14.35	0
		3	1	14.45	14.31	14.36	0
		3	3	14.50	14.41	14.37	0
		6	0	14.58	14.38	14.37	0
	64QAM	1	0	14.76	14.45	14.42	0
		1	3	14.53	14.35	14.31	0
		1	5	14.54	14.41	14.49	0
		3	0	14.41	14.28	14.20	0
		3	1	14.45	14.34	14.26	0
		3	3	14.38	14.39	14.26	0
		6	0	14.37	14.34	14.16	0
	256QAM	1	0	14.32	14.26	14.17	0
		1	3	14.37	14.34	14.34	0
		1	5	14.57	14.37	14.60	0
		3	0	14.51	14.30	14.30	0
		3	1	14.50	14.31	14.34	0
		3	3	14.47	14.31	14.25	0
		6	0	14.57	14.42	14.39	0

10.5.2 LTE Band 5

Band width	Modulation	RB Size	RB offset	Maximum Average Power		MPR
				20 525		
				836.5 MHz		
10 MHz	QPSK	1	0	16.39	0	
		1	25	16.27	0	
		1	49	16.28	0	
		25	0	16.37	0	
		25	12	16.46	0	
		25	25	16.35	0	
		50	0	16.35	0	
	16QAM	1	0	16.56	0	
		1	25	16.51	0	
		1	49	16.62	0	
		25	0	16.44	0	
		25	12	16.37	0	
		25	25	16.34	0	
		50	0	16.37	0	
	64QAM	1	0	16.56	0	
		1	25	16.39	0	
		1	49	16.37	0	
		25	0	16.42	0	
		25	12	16.31	0	
		25	25	16.29	0	
		50	0	16.39	0	
	256QAM	1	0	16.42	0	
		1	25	16.44	0	
		1	49	16.43	0	
		25	0	16.42	0	
		25	12	16.38	0	
		25	25	16.38	0	
		50	0	16.37	0	

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 425	20 525	20 625	
				826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	16.37	16.28	16.09	0
		1	12	16.22	16.26	16.02	0
		1	24	16.35	16.21	16.01	0
		12	0	16.48	16.36	16.16	0
		12	7	16.41	16.35	16.17	0
		12	13	16.39	16.31	16.19	0
		25	0	16.49	16.38	16.21	0
	16QAM	1	0	16.49	16.60	16.30	0
		1	12	16.65	16.44	16.15	0
		1	24	16.42	16.45	16.39	0
		12	0	16.46	16.40	16.12	0
		12	7	16.45	16.34	16.18	0
		12	13	16.39	16.27	16.09	0
		25	0	16.45	16.34	16.20	0
	64QAM	1	0	16.47	16.48	16.30	0
		1	12	16.38	16.31	16.05	0
		1	24	16.56	16.41	16.11	0
		12	0	16.50	16.30	16.24	0
		12	7	16.48	16.31	16.15	0
		12	13	16.42	16.35	16.16	0
		25	0	16.44	16.38	16.18	0
	256QAM	1	0	16.60	16.28	16.26	0
		1	12	16.35	16.35	16.16	0
		1	24	16.54	16.33	16.20	0
		12	0	16.38	16.44	16.21	0
		12	7	16.43	16.29	16.08	0
		12	13	16.37	16.30	16.16	0
		25	0	16.42	16.32	16.19	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 415	20 525	20 635	
				825.5 MHz	836.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	16.36	16.35	16.16	0
		1	8	16.28	16.20	16.03	0
		1	14	16.27	16.23	16.04	0
		8	0	16.42	16.37	16.20	0
		8	4	16.43	16.29	16.11	0
		8	7	16.43	16.34	16.12	0
		15	0	16.46	16.38	16.11	0
	16QAM	1	0	16.47	16.48	16.40	0
		1	8	16.54	16.59	16.20	0
		1	14	16.64	16.51	16.25	0
		8	0	16.39	16.31	16.17	0
		8	4	16.49	16.32	16.09	0
		8	7	16.41	16.36	16.17	0
		15	0	16.45	16.27	16.09	0
	64QAM	1	0	16.71	16.37	16.36	0
		1	8	16.54	16.29	16.15	0
		1	14	16.61	16.46	16.14	0
		8	0	16.48	16.32	16.11	0
		8	4	16.43	16.23	16.16	0
		8	7	16.38	16.28	16.16	0
		15	0	16.42	16.32	16.12	0
	256QAM	1	0	16.46	16.31	16.25	0
		1	8	16.46	16.32	16.22	0
		1	14	16.51	16.42	16.31	0
		8	0	16.49	16.38	16.12	0
		8	4	16.43	16.39	16.19	0
		8	7	16.44	16.25	16.08	0
		15	0	16.48	16.23	16.05	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 407	20 525	20 643	
				824.7 MHz	836.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	16.36	16.24	16.07	0
		1	3	16.15	16.18	16.02	0
		1	5	16.27	16.26	16.01	0
		3	0	16.33	16.20	16.08	0
		3	1	16.30	16.26	16.06	0
		3	3	16.22	16.18	16.01	0
		6	0	16.42	16.22	16.09	0
	16QAM	1	0	16.63	16.43	16.23	0
		1	3	16.53	16.38	16.29	0
		1	5	16.55	16.49	16.27	0
		3	0	16.38	16.26	16.15	0
		3	1	16.51	16.29	16.16	0
		3	3	16.33	16.23	16.08	0
		6	0	16.30	16.25	16.10	0
	64QAM	1	0	16.41	16.41	16.15	0
		1	3	16.48	16.22	16.13	0
		1	5	16.48	16.36	16.17	0
		3	0	16.39	16.22	16.11	0
		3	1	16.41	16.33	16.14	0
		3	3	16.41	16.22	16.09	0
		6	0	16.34	16.29	16.09	0
	256QAM	1	0	16.50	16.35	16.18	0
		1	3	16.38	16.21	16.20	0
		1	5	16.57	16.41	16.11	0
		3	0	16.37	16.22	16.00	0
		3	1	16.34	16.28	16.14	0
		3	3	16.32	16.24	16.07	0
		6	0	16.27	16.27	16.09	0

10.5.3 LTE Band 7 (Main2)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 850	21 100	21 350	
				2 510.0 MHz	2 535.0 MHz	2 560.0 MHz	
20 MHz	QPSK	1	0	9.25	9.10	9.19	0
		1	49	9.10	9.07	9.10	0
		1	99	9.13	9.08	9.09	0
		50	0	9.26	9.15	9.23	0
		50	24	9.19	9.07	9.21	0
		50	50	9.18	9.12	9.20	0
		100	0	9.23	9.16	9.17	0
	16QAM	1	0	9.52	9.20	9.45	0
		1	49	9.43	9.19	9.33	0
		1	99	9.44	9.26	9.39	0
		50	0	9.31	9.14	9.20	0
		50	24	9.26	9.09	9.20	0
		50	50	9.29	9.09	9.19	0
		100	0	9.33	9.12	9.14	0
	64QAM	1	0	9.52	9.18	9.33	0
		1	49	9.34	9.16	9.15	0
		1	99	9.27	9.13	9.22	0
		50	0	9.35	9.09	9.22	0
		50	24	9.34	9.14	9.18	0
		50	50	9.25	9.10	9.17	0
		100	0	9.28	9.11	9.14	0
	256QAM	1	0	9.49	9.25	9.26	0
		1	49	9.40	9.15	9.11	0
		1	99	9.31	9.21	9.14	0
		50	0	9.33	9.13	9.20	0
		50	24	9.28	9.12	9.16	0
		50	50	9.21	9.07	9.12	0
		100	0	9.32	9.11	9.18	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 825	21 100	21 375	
				2 507.5 MHz	2 535.0 MHz	2 562.5 MHz	
15 MHz	QPSK	1	0	9.30	9.05	9.13	0
		1	36	9.20	9.07	9.01	0
		1	74	9.20	9.07	9.02	0
		36	0	9.41	9.17	9.15	0
		36	18	9.34	9.16	9.19	0
		36	37	9.27	9.11	9.13	0
		75	0	9.34	9.16	9.20	0
	16QAM	1	0	9.65	9.31	9.32	0
		1	36	9.30	9.15	9.23	0
		1	74	9.45	9.13	9.28	0
		36	0	9.28	9.14	9.18	0
		36	18	9.30	9.10	9.09	0
		36	37	9.28	9.06	9.04	0
		75	0	9.34	9.13	9.17	0
	64QAM	1	0	9.56	9.23	9.18	0
		1	36	9.41	9.12	9.14	0
		1	74	9.41	9.23	9.22	0
		36	0	9.39	9.12	9.17	0
		36	18	9.33	9.15	9.19	0
		36	37	9.28	9.06	9.11	0
		75	0	9.33	9.05	9.10	0
	256QAM	1	0	9.34	9.15	9.30	0
		1	36	9.21	9.10	9.08	0
		1	74	9.24	9.10	9.14	0
		36	0	9.38	9.09	9.13	0
		36	18	9.30	9.12	9.12	0
		36	37	9.32	9.08	9.10	0
		75	0	9.35	9.13	9.09	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 800	21 100	21 400	
				2 505.0 MHz	2 535.0 MHz	2 565.0 MHz	
10 MHz	QPSK	1	0	9.38	9.09	9.03	0
		1	25	9.22	9.01	9.00	0
		1	49	9.27	9.03	9.04	0
		25	0	9.42	9.13	9.16	0
		25	12	9.44	9.11	9.05	0
		25	25	9.39	9.07	9.08	0
		50	0	9.40	9.15	9.15	0
	16QAM	1	0	9.60	9.27	9.35	0
		1	25	9.57	9.11	9.14	0
		1	49	9.51	9.32	9.25	0
		25	0	9.45	9.15	9.12	0
		25	12	9.34	9.08	9.11	0
		25	25	9.37	9.14	9.10	0
		50	0	9.37	9.13	9.07	0
	64QAM	1	0	9.52	9.23	9.20	0
		1	25	9.30	9.09	9.29	0
		1	49	9.41	9.28	9.17	0
		25	0	9.38	9.04	9.05	0
		25	12	9.38	9.13	9.09	0
		25	25	9.37	9.07	9.05	0
		50	0	9.44	9.14	9.04	0
	256QAM	1	0	9.48	9.20	9.18	0
		1	25	9.21	9.06	9.14	0
		1	49	9.31	9.10	9.14	0
		25	0	9.42	9.12	9.12	0
		25	12	9.37	9.05	9.09	0
		25	25	9.33	9.11	9.06	0
		50	0	9.34	9.10	9.10	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 775	21 100	21 425	
				2 502.5 MHz	2 535.0 MHz	2 567.5 MHz	
5 MHz	QPSK	1	0	9.44	9.11	9.09	0
		1	12	9.48	9.24	9.06	0
		1	24	9.45	9.11	9.08	0
		12	0	9.55	9.13	9.03	0
		12	7	9.52	9.14	9.08	0
		12	13	9.43	9.11	9.04	0
		25	0	9.58	9.17	9.08	0
	16QAM	1	0	9.59	9.28	9.20	0
		1	12	9.54	9.11	9.15	0
		1	24	9.64	9.22	9.26	0
		12	0	9.58	9.13	9.04	0
		12	7	9.55	9.18	9.10	0
		12	13	9.53	9.15	9.04	0
		25	0	9.51	9.11	9.08	0
	64QAM	1	0	9.64	9.19	9.12	0
		1	12	9.59	9.41	9.26	0
		1	24	9.53	9.15	9.09	0
		12	0	9.54	9.17	9.10	0
		12	7	9.50	9.09	9.11	0
		12	13	9.45	9.13	9.03	0
		25	0	9.46	9.06	9.05	0
	256QAM	1	0	9.64	9.16	9.20	0
		1	12	9.67	9.33	9.16	0
		1	24	9.58	9.17	9.14	0
		12	0	9.49	9.12	9.02	0
		12	7	9.40	9.07	9.05	0
		12	13	9.41	9.05	9.06	0
		25	0	9.56	9.14	9.06	0

10.5.4 LTE Band 7 (Sub1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 850	21 100	21 350	
				2 510.0 MHz	2 535.0 MHz	2 560.0 MHz	
20 MHz	QPSK	1	0	10.62	10.71	10.98	0
		1	49	10.59	10.61	10.87	0
		1	99	10.45	10.52	10.74	0
		50	0	10.66	10.62	10.99	0
		50	24	10.64	10.72	10.87	0
		50	50	10.56	10.69	10.85	0
		100	0	10.62	10.56	10.87	0
	16QAM	1	0	10.61	10.61	10.88	0
		1	49	10.61	10.49	10.78	0
		1	99	10.55	10.40	10.69	0
		50	0	10.63	10.68	10.85	0
		50	24	10.62	10.63	10.88	0
		50	50	10.57	10.59	10.83	0
		100	0	10.61	10.65	10.85	0
	64QAM	1	0	10.67	10.69	10.95	0
		1	49	10.61	10.59	10.96	0
		1	99	10.51	10.67	10.81	0
		50	0	10.66	10.66	10.96	0
		50	24	10.61	10.69	10.90	0
		50	50	10.53	10.67	10.83	0
		100	0	10.59	10.63	10.85	0
	256QAM	1	0	10.68	10.77	10.98	0
		1	49	10.69	10.61	10.95	0
		1	99	10.41	10.57	10.65	0
		50	0	10.62	10.66	10.94	0
		50	24	10.62	10.66	10.93	0
		50	50	10.58	10.59	10.84	0
		100	0	10.65	10.67	10.84	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 825	21 100	21 375	
				2 507.5 MHz	2 535.0 MHz	2 562.5 MHz	
15 MHz	QPSK	1	0	10.47	10.67	10.89	0
		1	36	10.46	10.51	10.72	0
		1	74	10.38	10.44	10.72	0
		36	0	10.50	10.41	10.84	0
		36	18	10.64	10.67	10.84	0
		36	37	10.44	10.57	10.74	0
		75	0	10.60	10.59	10.88	0
	16QAM	1	0	10.54	10.51	10.84	0
		1	36	10.44	10.22	10.57	0
		1	74	10.58	10.39	10.68	0
		36	0	10.62	10.64	10.84	0
		36	18	10.56	10.53	10.82	0
		36	37	10.65	10.58	10.85	0
		75	0	10.64	10.68	10.83	0
	64QAM	1	0	10.67	10.67	10.95	0
		1	36	10.46	10.47	10.81	0
		1	74	10.43	10.56	10.75	0
		36	0	10.56	10.51	10.81	0
		36	18	10.61	10.62	10.86	0
		36	37	10.57	10.68	10.84	0
		75	0	10.55	10.57	10.81	0
	256QAM	1	0	10.56	10.63	10.83	0
		1	36	10.27	10.18	10.52	0
		1	74	10.26	10.43	10.50	0
		36	0	10.50	10.62	10.84	0
		36	18	10.51	10.52	10.78	0
		36	37	10.55	10.55	10.79	0
		75	0	10.67	10.63	10.83	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 800	21 100	21 400	
				2 505.0 MHz	2 535.0 MHz	2 565.0 MHz	
10 MHz	QPSK	1	0	10.29	10.31	10.62	0
		1	25	10.31	10.31	10.56	0
		1	49	10.21	10.28	10.54	0
		25	0	10.35	10.26	10.66	0
		25	12	10.34	10.41	10.58	0
		25	25	10.23	10.37	10.58	0
		50	0	10.36	10.32	10.64	0
	16QAM	1	0	10.39	10.36	10.64	0
		1	25	10.43	10.31	10.55	0
		1	49	10.39	10.24	10.57	0
		25	0	10.53	10.56	10.72	0
		25	12	10.36	10.32	10.63	0
		25	25	10.33	10.39	10.65	0
		50	0	10.36	10.35	10.58	0
	64QAM	1	0	10.21	10.22	10.50	0
		1	25	10.17	10.19	10.57	0
		1	49	10.33	10.46	10.62	0
		25	0	10.35	10.37	10.64	0
		25	12	10.29	10.42	10.58	0
		25	25	10.26	10.34	10.54	0
		50	0	10.32	10.35	10.59	0
	256QAM	1	0	10.29	10.37	10.61	0
		1	25	10.15	10.10	10.41	0
		1	49	10.12	10.29	10.38	0
		25	0	10.23	10.34	10.57	0
		25	12	10.17	10.25	10.54	0
		25	25	10.32	10.35	10.58	0
		50	0	10.39	10.41	10.57	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				20 775	21 100	21 425	
				2 502.5 MHz	2 535.0 MHz	2 567.5 MHz	
5 MHz	QPSK	1	0	10.22	10.31	10.58	0
		1	12	10.21	10.26	10.55	0
		1	24	10.24	10.29	10.50	0
		12	0	10.17	10.20	10.55	0
		12	7	10.34	10.42	10.56	0
		12	13	10.33	10.49	10.60	0
		25	0	10.33	10.25	10.58	0
	16QAM	1	0	10.17	10.26	10.47	0
		1	12	10.31	10.16	10.50	0
		1	24	10.46	10.26	10.60	0
		12	0	10.31	10.40	10.58	0
		12	7	10.28	10.30	10.58	0
		12	13	10.31	10.28	10.56	0
		25	0	10.36	10.43	10.61	0
	64QAM	1	0	10.37	10.38	10.61	0
		1	12	10.25	10.26	10.62	0
		1	24	10.19	10.37	10.51	0
		12	0	10.25	10.23	10.58	0
		12	7	10.27	10.36	10.56	0
		12	13	10.37	10.50	10.65	0
		25	0	10.34	10.39	10.61	0
	256QAM	1	0	10.27	10.43	10.59	0
		1	12	10.08	10.06	10.35	0
		1	24	10.05	10.26	10.33	0
		12	0	10.21	10.28	10.58	0
		12	7	10.16	10.25	10.52	0
		12	13	10.34	10.29	10.57	0
		25	0	10.33	10.38	10.55	0

10.5.5 LTE Band 12

Band width	Modulation	RB Size	RB offset	Maximum Average Power		
				23 095		MPR
				707.5 MHz		
10 MHz	QPSK	1	0	16.73	0	
		1	25	16.48	0	
		1	49	16.48	0	
		25	0	16.76	0	
		25	12	16.73	0	
		25	25	16.69	0	
		50	0	16.71	0	
	16QAM	1	0	16.75	0	
		1	25	16.67	0	
		1	49	16.80	0	
		25	0	16.73	0	
		25	12	16.66	0	
		25	25	16.63	0	
		50	0	16.68	0	
	64QAM	1	0	16.79	0	
		1	25	16.63	0	
		1	49	16.59	0	
		25	0	16.67	0	
		25	12	16.67	0	
		25	25	16.60	0	
		50	0	16.66	0	
	256QAM	1	0	16.82	0	
		1	25	16.63	0	
		1	49	16.61	0	
		25	0	16.68	0	
		25	12	16.67	0	
		25	25	16.65	0	
		50	0	16.63	0	

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 035	23 095	23 155	
				701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	QPSK	1	0	16.53	16.60	16.62	0
		1	12	16.50	16.59	16.54	0
		1	24	16.49	16.47	16.58	0
		12	0	16.57	16.63	16.59	0
		12	7	16.59	16.58	16.55	0
		12	13	16.55	16.57	16.57	0
		25	0	16.69	16.63	16.61	0
	16QAM	1	0	16.84	16.83	16.97	0
		1	12	16.76	16.65	16.63	0
		1	24	16.84	16.91	16.75	0
		12	0	16.65	16.67	16.63	0
		12	7	16.56	16.67	16.60	0
		12	13	16.61	16.64	16.54	0
		25	0	16.66	16.61	16.64	0
	64QAM	1	0	16.79	16.77	16.62	0
		1	12	16.67	16.77	16.63	0
		1	24	16.74	16.70	16.59	0
		12	0	16.55	16.65	16.59	0
		12	7	16.66	16.56	16.62	0
		12	13	16.62	16.63	16.55	0
		25	0	16.61	16.64	16.58	0
	256QAM	1	0	16.64	16.65	16.72	0
		1	12	16.59	16.60	16.63	0
		1	24	16.60	16.59	16.62	0
		12	0	16.60	16.64	16.59	0
		12	7	16.60	16.59	16.53	0
		12	13	16.58	16.53	16.52	0
		25	0	16.61	16.67	16.58	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 025	23 095	23 165	
				700.5 MHz	707.5 MHz	714.5 MHz	
3 MHz	QPSK	1	0	16.46	16.64	16.61	0
		1	8	16.45	16.43	16.42	0
		1	14	16.45	16.47	16.47	0
		8	0	16.53	16.51	16.57	0
		8	4	16.49	16.49	16.54	0
		8	7	16.56	16.53	16.56	0
		15	0	16.57	16.60	16.57	0
	16QAM	1	0	16.68	16.71	16.86	0
		1	8	16.62	16.65	16.71	0
		1	14	16.57	16.61	16.56	0
		8	0	16.53	16.58	16.57	0
		8	4	16.47	16.59	16.54	0
		8	7	16.50	16.54	16.54	0
		15	0	16.53	16.54	16.55	0
	64QAM	1	0	16.77	16.74	16.59	0
		1	8	16.67	16.63	16.61	0
		1	14	16.74	16.72	16.68	0
		8	0	16.50	16.57	16.50	0
		8	4	16.51	16.52	16.59	0
		8	7	16.49	16.57	16.52	0
		15	0	16.57	16.51	16.50	0
	256QAM	1	0	16.67	16.54	16.75	0
		1	8	16.66	16.57	16.59	0
		1	14	16.65	16.50	16.57	0
		8	0	16.55	16.56	16.55	0
		8	4	16.51	16.52	16.55	0
		8	7	16.49	16.63	16.59	0
		15	0	16.48	16.58	16.51	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				23 017	23 095	23 173	
				699.7 MHz	707.5 MHz	715.3 MHz	
1.4 MHz	QPSK	1	0	16.51	16.50	16.49	0
		1	3	16.23	16.36	16.37	0
		1	5	16.38	16.50	16.41	0
		3	0	16.39	16.51	16.49	0
		3	1	16.37	16.50	16.39	0
		3	3	16.40	16.49	16.41	0
		6	0	16.45	16.57	16.47	0
	16QAM	1	0	16.65	16.73	16.76	0
		1	3	16.49	16.64	16.61	0
		1	5	16.68	16.69	16.60	0
		3	0	16.57	16.50	16.59	0
		3	1	16.66	16.52	16.62	0
		3	3	16.44	16.46	16.50	0
		6	0	16.45	16.52	16.46	0
	64QAM	1	0	16.55	16.69	16.54	0
		1	3	16.58	16.54	16.64	0
		1	5	16.53	16.70	16.70	0
		3	0	16.47	16.49	16.54	0
		3	1	16.65	16.66	16.59	0
		3	3	16.43	16.62	16.51	0
		6	0	16.44	16.53	16.46	0
	256QAM	1	0	16.53	16.60	16.56	0
		1	3	16.48	16.42	16.51	0
		1	5	16.54	16.56	16.57	0
		3	0	16.48	16.45	16.51	0
		3	1	16.59	16.54	16.51	0
		3	3	16.51	16.43	16.46	0
		6	0	16.52	16.46	16.43	0

10.5.6 LTE Band 13

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 230		
				782.0 MHz		
10 MHz	QPSK	1	0	16.94	0	
		1	25	16.60	0	
		1	49	16.77	0	
		25	0	16.93	0	
		25	12	16.90	0	
		25	25	16.84	0	
		50	0	16.88	0	
	16QAM	1	0	16.94	0	
		1	25	16.87	0	
		1	49	16.83	0	
		25	0	16.96	0	
		25	12	16.92	0	
		25	25	16.88	0	
		50	0	16.84	0	
	64QAM	1	0	17.11	0	
		1	25	16.92	0	
		1	49	16.99	0	
		25	0	16.94	0	
		25	12	16.87	0	
		25	25	16.86	0	
		50	0	16.83	0	
	256QAM	1	0	17.01	0	
		1	25	16.88	0	
		1	49	16.91	0	
		25	0	16.96	0	
		25	12	16.92	0	
		25	25	16.85	0	
		50	0	16.89	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 230		
				782.0 MHz		
5 MHz	QPSK	1	0	16.90	0	
		1	12	16.81	0	
		1	24	16.86	0	
		12	0	16.87	0	
		12	7	16.88	0	
		12	13	16.85	0	
		25	0	16.96	0	
	16QAM	1	0	17.06	0	
		1	12	16.93	0	
		1	24	16.96	0	
		12	0	16.88	0	
		12	7	16.84	0	
		12	13	16.92	0	
		25	0	16.84	0	
	64QAM	1	0	17.11	0	
		1	12	16.95	0	
		1	24	16.86	0	
		12	0	16.92	0	
		12	7	16.81	0	
		12	13	16.84	0	
		25	0	16.90	0	
	256QAM	1	0	17.11	0	
		1	12	17.01	0	
		1	24	16.88	0	
		12	0	16.89	0	
		12	7	16.88	0	
		12	13	16.82	0	
		25	0	16.93	0	

5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

10.5.7 LTE Band 14

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 330		
				793.0 MHz		
10 MHz	QPSK	1	0	16.70	0	
		1	25	16.47	0	
		1	49	16.47	0	
		25	0	16.73	0	
		25	12	16.64	0	
		25	25	16.60	0	
		50	0	16.69	0	
	16QAM	1	0	16.96	0	
		1	25	16.76	0	
		1	49	16.82	0	
		25	0	16.67	0	
		25	12	16.71	0	
		25	25	16.63	0	
		50	0	16.63	0	
	64QAM	1	0	16.81	0	
		1	25	16.61	0	
		1	49	16.62	0	
		25	0	16.65	0	
		25	12	16.60	0	
		25	25	16.58	0	
		50	0	16.60	0	
	256QAM	1	0	16.81	0	
		1	25	16.70	0	
		1	49	16.57	0	
		25	0	16.74	0	
		25	12	16.71	0	
		25	25	16.64	0	
		50	0	16.60	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				23 330		
				793.0 MHz		
5 MHz	QPSK	1	0	16.65	0	
		1	12	16.65	0	
		1	24	16.54	0	
		12	0	16.73	0	
		12	7	16.69	0	
		12	13	16.69	0	
		25	0	16.72	0	
	16QAM	1	0	16.93	0	
		1	12	16.93	0	
		1	24	16.75	0	
		12	0	16.73	0	
		12	7	16.70	0	
		12	13	16.61	0	
		25	0	16.73	0	
	64QAM	1	0	16.81	0	
		1	12	16.70	0	
		1	24	16.65	0	
		12	0	16.70	0	
		12	7	16.73	0	
		12	13	16.54	0	
		25	0	16.74	0	
	256QAM	1	0	16.75	0	
		1	12	16.84	0	
		1	24	16.67	0	
		12	0	16.70	0	
		12	7	16.68	0	
		12	13	16.64	0	
		25	0	16.65	0	

10.5.8 LTE Band 25

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 140	26 365	26 590	
				1 860.0 MHz	1 882.5 MHz	1 905.0 MHz	
20 MHz	QPSK	1	0	13.52	13.33	13.52	0
		1	49	13.59	13.41	13.60	0
		1	99	13.57	13.36	13.47	0
		50	0	13.58	13.40	13.63	0
		50	24	13.55	13.37	13.55	0
		50	50	13.58	13.38	13.51	0
		100	0	13.57	13.32	13.58	0
	16QAM	1	0	13.75	13.70	13.88	0
		1	49	13.45	13.33	13.73	0
		1	99	13.77	13.46	13.81	0
		50	0	13.55	13.42	13.57	0
		50	24	13.53	13.35	13.57	0
		50	50	13.56	13.35	13.55	0
		100	0	13.52	13.36	13.57	0
	64QAM	1	0	13.73	13.61	13.65	0
		1	49	13.64	13.40	13.59	0
		1	99	13.80	13.41	13.77	0
		50	0	13.59	13.35	13.51	0
		50	24	13.58	13.37	13.61	0
		50	50	13.58	13.35	13.53	0
		100	0	13.52	13.38	13.55	0
	256QAM	1	0	13.69	13.55	13.65	0
		1	49	13.63	13.46	13.65	0
		1	99	13.74	13.46	13.60	0
		50	0	13.53	13.34	13.59	0
		50	24	13.50	13.42	13.50	0
		50	50	13.54	13.31	13.52	0
		100	0	13.58	13.40	13.57	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 115	26 365	26 615	
				1 857.5 MHz	1 882.5 MHz	1 907.5 MHz	
15 MHz	QPSK	1	0	13.44	13.34	13.59	0
		1	36	13.40	13.21	13.38	0
		1	74	13.53	13.33	13.54	0
		36	0	13.56	13.34	13.62	0
		36	18	13.54	13.40	13.63	0
		36	37	13.58	13.37	13.65	0
		75	0	13.59	13.33	13.63	0
	16QAM	1	0	13.77	13.61	13.83	0
		1	36	13.77	13.34	13.74	0
		1	74	13.91	13.57	13.79	0
		36	0	13.52	13.32	13.61	0
		36	18	13.56	13.31	13.59	0
		36	37	13.57	13.40	13.58	0
		75	0	13.54	13.34	13.57	0
	64QAM	1	0	13.61	13.59	13.76	0
		1	36	13.61	13.48	13.70	0
		1	74	13.72	13.41	13.65	0
		36	0	13.55	13.35	13.62	0
		36	18	13.57	13.37	13.53	0
		36	37	13.56	13.33	13.65	0
		75	0	13.52	13.36	13.63	0
	256QAM	1	0	13.72	13.50	13.72	0
		1	36	13.59	13.43	13.50	0
		1	74	13.71	13.45	13.60	0
		36	0	13.61	13.39	13.60	0
		36	18	13.56	13.29	13.60	0
		36	37	13.56	13.37	13.63	0
		75	0	13.58	13.37	13.58	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 090	26 365	26 640	
				1 855.0 MHz	1 882.5 MHz	1 910.0 MHz	
10 MHz	QPSK	1	0	13.47	13.31	13.68	0
		1	25	13.29	13.10	13.45	0
		1	49	13.50	13.29	13.66	0
		25	0	13.57	13.40	13.72	0
		25	12	13.55	13.33	13.68	0
		25	25	13.50	13.35	13.69	0
		50	0	13.55	13.38	13.70	0
	16QAM	1	0	13.70	13.54	13.81	0
		1	25	13.60	13.34	13.63	0
		1	49	13.57	13.53	13.74	0
		25	0	13.57	13.39	13.74	0
		25	12	13.54	13.36	13.75	0
		25	25	13.49	13.35	13.69	0
		50	0	13.58	13.36	13.68	0
	64QAM	1	0	13.70	13.54	13.72	0
		1	25	13.61	13.25	13.82	0
		1	49	13.81	13.67	13.90	0
		25	0	13.51	13.36	13.63	0
		25	12	13.52	13.29	13.63	0
		25	25	13.46	13.32	13.64	0
		50	0	13.54	13.35	13.67	0
	256QAM	1	0	13.56	13.53	13.68	0
		1	25	13.50	13.44	13.47	0
		1	49	13.80	13.37	13.71	0
		25	0	13.54	13.32	13.71	0
		25	12	13.52	13.32	13.64	0
		25	25	13.53	13.33	13.61	0
		50	0	13.54	13.36	13.65	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 065	26 365	26 665	
				1 852.5 MHz	1 882.5 MHz	1 912.5 MHz	
5 MHz	QPSK	1	0	13.49	13.27	13.62	0
		1	12	13.66	13.52	13.73	0
		1	24	13.46	13.33	13.65	0
		12	0	13.55	13.29	13.64	0
		12	7	13.56	13.33	13.63	0
		12	13	13.50	13.35	13.69	0
		25	0	13.53	13.33	13.70	0
	16QAM	1	0	13.83	13.45	13.98	0
		1	12	13.53	13.49	13.97	0
		1	24	13.71	13.44	13.90	0
		12	0	13.55	13.30	13.67	0
		12	7	13.55	13.38	13.73	0
		12	13	13.56	13.31	13.71	0
		25	0	13.50	13.32	13.67	0
	64QAM	1	0	13.65	13.45	13.94	0
		1	12	13.84	13.51	13.91	0
		1	24	13.76	13.40	13.89	0
		12	0	13.56	13.30	13.66	0
		12	7	13.59	13.31	13.72	0
		12	13	13.55	13.29	13.67	0
		25	0	13.53	13.38	13.72	0
	256QAM	1	0	13.60	13.45	13.89	0
		1	12	13.69	13.50	13.94	0
		1	24	13.69	13.42	13.80	0
		12	0	13.52	13.33	13.67	0
		12	7	13.46	13.26	13.59	0
		12	13	13.49	13.34	13.64	0
		25	0	13.50	13.30	13.72	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 055	26 365	26 675	
				1 851.5 MHz	1 882.5 MHz	1 913.5 MHz	
3 MHz	QPSK	1	0	13.54	13.21	13.54	0
		1	8	13.38	13.15	13.50	0
		1	14	13.42	13.18	13.55	0
		8	0	13.54	13.30	13.66	0
		8	4	13.48	13.23	13.64	0
		8	7	13.55	13.36	13.62	0
		15	0	13.60	13.40	13.64	0
	16QAM	1	0	13.84	13.53	13.71	0
		1	8	13.68	13.36	13.80	0
		1	14	13.80	13.45	13.98	0
		8	0	13.59	13.33	13.66	0
		8	4	13.54	13.30	13.74	0
		8	7	13.57	13.31	13.69	0
		15	0	13.54	13.28	13.75	0
	64QAM	1	0	13.59	13.50	13.79	0
		1	8	13.66	13.37	13.70	0
		1	14	13.73	13.41	13.73	0
		8	0	13.54	13.33	13.62	0
		8	4	13.57	13.32	13.62	0
		8	7	13.52	13.35	13.63	0
		15	0	13.58	13.29	13.70	0
	256QAM	1	0	13.60	13.52	13.82	0
		1	8	13.58	13.43	13.79	0
		1	14	13.60	13.27	13.81	0
		8	0	13.53	13.30	13.69	0
		8	4	13.52	13.30	13.62	0
		8	7	13.56	13.34	13.70	0
		15	0	13.52	13.32	13.72	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				26 047	26 365	26 683	
				1 850.7 MHz	1 882.5 MHz	1 914.3 MHz	
1.4 MHz	QPSK	1	0	13.55	13.22	13.56	0
		1	3	13.38	13.15	13.48	0
		1	5	13.50	13.25	13.52	0
		3	0	13.51	13.20	13.55	0
		3	1	13.49	13.25	13.55	0
		3	3	13.51	13.23	13.53	0
		6	0	13.51	13.27	13.58	0
	16QAM	1	0	13.67	13.40	13.70	0
		1	3	13.55	13.40	13.61	0
		1	5	13.80	13.51	13.75	0
		3	0	13.63	13.33	13.69	0
		3	1	13.50	13.30	13.52	0
		3	3	13.67	13.39	13.61	0
		6	0	13.51	13.32	13.69	0
	64QAM	1	0	13.74	13.39	13.72	0
		1	3	13.53	13.18	13.57	0
		1	5	13.67	13.30	13.76	0
		3	0	13.69	13.30	13.66	0
		3	1	13.62	13.36	13.64	0
		3	3	13.49	13.32	13.66	0
		6	0	13.52	13.27	13.60	0
	256QAM	1	0	13.77	13.33	13.58	0
		1	3	13.57	13.26	13.77	0
		1	5	13.60	13.39	13.73	0
		3	0	13.59	13.25	13.63	0
		3	1	13.48	13.32	13.66	0
		3	3	13.55	13.21	13.65	0
		6	0	13.53	13.20	13.60	0

10.5.9 LTE Band 26

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				26 865		
				831.5 MHz		
15 MHz	QPSK	1	0	16.52	0	
		1	36	16.27	0	
		1	74	16.26	0	
		36	0	16.53	0	
		36	18	16.45	0	
		36	37	16.37	0	
		75	0	16.50	0	
	16QAM	1	0	16.50	0	
		1	36	16.56	0	
		1	74	16.51	0	
		36	0	16.50	0	
		36	18	16.40	0	
		36	37	16.38	0	
		75	0	16.44	0	
	64QAM	1	0	16.73	0	
		1	36	16.52	0	
		1	74	16.49	0	
		36	0	16.50	0	
		36	18	16.44	0	
		36	37	16.41	0	
		75	0	16.47	0	
	256QAM	1	0	16.49	0	
		1	36	16.35	0	
		1	74	16.39	0	
		36	0	16.45	0	
		36	18	16.42	0	
		36	37	16.38	0	
		75	0	16.41	0	

15 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 740	26 865	26 990	
				819.0 MHz	831.5 MHz	844.0 MHz	
10 MHz	QPSK	1	0	16.48	16.40	16.25	0
		1	25	16.22	16.15	16.07	0
		1	49	16.34	16.32	16.05	0
		25	0	16.51	16.49	16.24	0
		25	12	16.50	16.46	16.24	0
		25	25	16.44	16.50	16.22	0
		50	0	16.51	16.43	16.22	0
	16QAM	1	0	16.70	16.66	16.52	0
		1	25	16.52	16.48	16.43	0
		1	49	16.61	16.56	16.18	0
		25	0	16.52	16.49	16.30	0
		25	12	16.51	16.43	16.24	0
		25	25	16.50	16.39	16.21	0
		50	0	16.53	16.41	16.20	0
	64QAM	1	0	16.67	16.83	16.28	0
		1	25	16.57	16.48	16.27	0
		1	49	16.67	16.57	16.24	0
		25	0	16.52	16.39	16.20	0
		25	12	16.49	16.41	16.19	0
		25	25	16.41	16.37	16.17	0
		50	0	16.55	16.40	16.17	0
	256QAM	1	0	16.74	16.48	16.28	0
		1	25	16.51	16.31	16.30	0
		1	49	16.37	16.47	16.21	0
		25	0	16.49	16.44	16.24	0
		25	12	16.48	16.42	16.21	0
		25	25	16.39	16.39	16.18	0
		50	0	16.44	16.39	16.20	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 715	26 865	27 015	
				816.5 MHz	831.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	16.40	16.34	16.12	0
		1	12	16.38	16.39	16.13	0
		1	24	16.31	16.26	16.12	0
		12	0	16.43	16.40	16.16	0
		12	7	16.46	16.39	16.10	0
		12	13	16.40	16.35	16.19	0
		25	0	16.47	16.46	16.21	0
	16QAM	1	0	16.62	16.60	16.43	0
		1	12	16.65	16.47	16.25	0
		1	24	16.52	16.46	16.36	0
		12	0	16.50	16.41	16.21	0
		12	7	16.50	16.44	16.12	0
		12	13	16.42	16.36	16.14	0
		25	0	16.48	16.42	16.21	0
	64QAM	1	0	16.69	16.55	16.31	0
		1	12	16.60	16.45	16.22	0
		1	24	16.64	16.55	16.27	0
		12	0	16.48	16.39	16.15	0
		12	7	16.48	16.45	16.15	0
		12	13	16.54	16.40	16.15	0
		25	0	16.41	16.40	16.18	0
	256QAM	1	0	16.61	16.50	16.22	0
		1	12	16.49	16.47	16.14	0
		1	24	16.55	16.34	16.19	0
		12	0	16.46	16.41	16.16	0
		12	7	16.42	16.34	16.14	0
		12	13	16.41	16.34	16.16	0
		25	0	16.46	16.41	16.17	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 705	26 865	27 025	
				815.5 MHz	831.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	16.36	16.30	16.10	0
		1	8	16.32	16.23	16.01	0
		1	14	16.33	16.27	16.02	0
		8	0	16.43	16.45	16.10	0
		8	4	16.43	16.39	16.11	0
		8	7	16.46	16.39	16.14	0
		15	0	16.53	16.37	16.16	0
	16QAM	1	0	16.68	16.55	16.38	0
		1	8	16.47	16.46	16.22	0
		1	14	16.50	16.56	16.32	0
		8	0	16.42	16.33	16.17	0
		8	4	16.43	16.38	16.13	0
		8	7	16.48	16.38	16.16	0
		15	0	16.45	16.36	16.10	0
	64QAM	1	0	16.58	16.56	16.37	0
		1	8	16.57	16.44	16.26	0
		1	14	16.67	16.47	16.28	0
		8	0	16.45	16.37	16.15	0
		8	4	16.47	16.35	16.17	0
		8	7	16.49	16.44	16.12	0
		15	0	16.51	16.38	16.13	0
	256QAM	1	0	16.57	16.50	16.26	0
		1	8	16.48	16.36	16.27	0
		1	14	16.62	16.39	16.19	0
		8	0	16.50	16.37	16.14	0
		8	4	16.46	16.38	16.18	0
		8	7	16.46	16.38	16.13	0
		15	0	16.44	16.41	16.07	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)			MPR
				26 697	26 865	27 033	
				814.7 MHz	831.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	16.58	16.48	16.20	0
		1	3	16.50	16.40	16.14	0
		1	5	16.55	16.46	16.09	0
		3	0	16.52	16.48	16.11	0
		3	1	16.53	16.43	16.12	0
		3	3	16.58	16.43	16.19	0
		6	0	16.54	16.48	16.23	0
	16QAM	1	0	16.72	16.76	16.34	0
		1	3	16.82	16.68	16.39	0
		1	5	16.75	16.58	16.37	0
		3	0	16.56	16.56	16.27	0
		3	1	16.57	16.57	16.23	0
		3	3	16.64	16.55	16.25	0
		6	0	16.60	16.49	16.26	0
	64QAM	1	0	16.64	16.61	16.13	0
		1	3	16.65	16.54	16.31	0
		1	5	16.64	16.70	16.18	0
		3	0	16.64	16.48	16.25	0
		3	1	16.60	16.53	16.23	0
		3	3	16.61	16.52	16.30	0
		6	0	16.64	16.51	16.24	0
	256QAM	1	0	16.62	16.56	16.36	0
		1	3	16.63	16.58	16.31	0
		1	5	16.65	16.52	16.27	0
		3	0	16.61	16.43	16.13	0
		3	1	16.60	16.45	16.23	0
		3	3	16.57	16.40	16.24	0
		6	0	16.61	16.36	16.17	0

10.5.10 LTE Band 30

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				27 710		
				2 310.0 MHz		
10 MHz	QPSK	1	0	13.72	0	
		1	25	13.45	0	
		1	49	13.60	0	
		25	0	13.69	0	
		25	12	13.71	0	
		25	25	13.68	0	
		50	0	13.70	0	
	16QAM	1	0	14.01	0	
		1	25	13.72	0	
		1	49	13.83	0	
		25	0	13.74	0	
		25	12	13.74	0	
		25	25	13.68	0	
		50	0	13.73	0	
	64QAM	1	0	14.05	0	
		1	25	13.73	0	
		1	49	13.81	0	
		25	0	13.64	0	
		25	12	13.68	0	
		25	25	13.66	0	
		50	0	13.70	0	
	256QAM	1	0	13.75	0	
		1	25	13.75	0	
		1	49	13.73	0	
		25	0	13.76	0	
		25	12	13.72	0	
		25	25	13.66	0	
		50	0	13.69	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)		MPR
				27 710		
				2 310.0 MHz		
5 MHz	QPSK	1	0	13.61	0	
		1	12	13.75	0	
		1	24	13.62	0	
		12	0	13.77	0	
		12	7	13.75	0	
		12	13	13.68	0	
		25	0	13.78	0	
	16QAM	1	0	14.06	0	
		1	12	13.64	0	
		1	24	13.88	0	
		12	0	13.71	0	
		12	7	13.81	0	
		12	13	13.75	0	
		25	0	13.77	0	
	64QAM	1	0	13.80	0	
		1	12	13.89	0	
		1	24	13.72	0	
		12	0	13.75	0	
		12	7	13.76	0	
		12	13	13.78	0	
		25	0	13.71	0	
	256QAM	1	0	13.80	0	
		1	12	13.70	0	
		1	24	13.73	0	
		12	0	13.74	0	
		12	7	13.78	0	
		12	13	13.65	0	
		25	0	13.72	0	

10.5.11 LTE Band 40 (lower)

Band width	Modulation	RB Size	RB offset	Maximum Average Power		MPR
				38 750		
				2 310.0 MHz		
10 MHz	QPSK	1	0	13.63	0	
		1	25	13.59	0	
		1	49	13.60	0	
		25	0	13.70	0	
		25	12	13.65	0	
		25	25	13.56	0	
		50	0	13.62	0	
	16QAM	1	0	13.72	0	
		1	25	13.46	0	
		1	49	13.48	0	
		25	0	13.68	0	
		25	12	13.65	0	
		25	25	13.53	0	
		50	0	13.63	0	
	64QAM	1	0	13.63	0	
		1	25	13.50	0	
		1	49	13.52	0	
		25	0	13.64	0	
		25	12	13.60	0	
		25	25	13.56	0	
		50	0	13.75	0	
	256QAM	1	0	13.51	0	
		1	25	13.37	0	
		1	49	13.53	0	
		25	0	13.77	0	
		25	12	13.77	0	
		25	25	13.65	0	
		50	0	13.68	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				38 725	38 750	38 775	
				2 307.5 MHz	2 310.0 MHz	2 312.5 MHz	
5 MHz	QPSK	1	0	13.63	13.67	13.51	0
		1	12	13.61	13.70	13.56	0
		1	24	13.55	13.45	13.42	0
		12	0	13.59	13.56	13.48	0
		12	7	13.46	13.50	13.65	0
		12	13	13.44	13.48	13.51	0
		25	0	13.59	13.58	13.55	0
	16QAM	1	0	13.43	13.30	13.25	0
		1	12	13.24	13.20	13.18	0
		1	24	13.23	13.32	13.35	0
		12	0	13.63	13.58	13.66	0
		12	7	13.61	13.55	13.50	0
		12	13	13.56	13.59	13.47	0
		25	0	13.57	13.46	13.53	0
	64QAM	1	0	13.66	13.52	13.56	0
		1	12	13.38	13.42	13.46	0
		1	24	13.56	13.51	13.55	0
		12	0	13.56	13.44	13.56	0
		12	7	13.44	13.60	13.48	0
		12	13	13.55	13.49	13.54	0
		25	0	13.60	13.54	13.53	0
	256QAM	1	0	13.59	13.45	13.52	0
		1	12	13.50	13.54	13.57	0
		1	24	13.37	13.49	13.50	0
		12	0	13.52	13.48	13.59	0
		12	7	13.44	13.46	13.58	0
		12	13	13.61	13.54	13.59	0
		25	0	13.65	13.63	13.62	0

10.5.12 LTE Band 40 (upper)

Band width	Modulation	RB Size	RB offset	Maximum Average Power		
				39 200		MPR
				2 355.0 MHz		
10 MHz	QPSK	1	0	13.49	0	
		1	25	13.21	0	
		1	49	13.23	0	
		25	0	13.40	0	
		25	12	13.35	0	
		25	25	13.33	0	
		50	0	13.37	0	
	16QAM	1	0	13.32	0	
		1	25	13.10	0	
		1	49	13.20	0	
		25	0	13.36	0	
		25	12	13.33	0	
		25	25	13.31	0	
		50	0	13.35	0	
	64QAM	1	0	13.37	0	
		1	25	13.14	0	
		1	49	13.20	0	
		25	0	13.34	0	
		25	12	13.33	0	
		25	25	13.31	0	
		50	0	13.37	0	
	256QAM	1	0	13.25	0	
		1	25	13.18	0	
		1	49	13.21	0	
		25	0	13.40	0	
		25	12	13.37	0	
		25	25	13.34	0	
		50	0	13.41	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				39 175	39 200	39 225	
				2 352.5 MHz	2 355.0 MHz	2 357.5 MHz	
5 MHz	QPSK	1	0	13.24	13.41	13.45	0
		1	12	13.31	13.50	13.57	0
		1	24	13.18	13.42	13.44	0
		12	0	13.31	13.49	13.57	0
		12	7	13.29	13.47	13.57	0
		12	13	13.28	13.51	13.44	0
		25	0	13.31	13.55	13.56	0
	16QAM	1	0	13.33	13.39	13.47	0
		1	12	13.24	13.12	13.32	0
		1	24	13.22	13.42	13.46	0
		12	0	13.32	13.52	13.54	0
		12	7	13.32	13.49	13.51	0
		12	13	13.28	13.49	13.38	0
		25	0	13.27	13.53	13.46	0
	64QAM	1	0	13.25	13.48	13.44	0
		1	12	13.27	13.49	13.49	0
		1	24	13.21	13.39	13.32	0
		12	0	13.30	13.52	13.45	0
		12	7	13.31	13.45	13.45	0
		12	13	13.28	13.41	13.55	0
		25	0	13.30	13.47	13.51	0
	256QAM	1	0	13.14	13.43	13.48	0
		1	12	13.12	13.44	13.55	0
		1	24	13.04	13.26	13.22	0
		12	0	13.32	13.53	13.45	0
		12	7	13.26	13.43	13.48	0
		12	13	13.28	13.52	13.52	0
		25	0	13.34	13.55	13.56	0

10.5.13 LTE Band 41 (Power Class 2)

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
20 MHz	QPSK	1	0	13.39	13.16	13.28	13.28	13.45	0
		1	49	13.34	13.06	13.21	13.22	13.43	0
		1	99	13.27	13.03	13.14	13.13	13.38	0
		50	0	13.38	13.10	13.21	13.16	13.47	0
		50	24	13.36	13.07	13.17	13.14	13.45	0
		50	50	13.32	12.97	13.13	13.09	13.40	0
		100	0	13.34	13.05	13.16	13.14	13.40	0
	16QAM	1	0	13.64	13.02	13.19	13.16	13.57	0
		1	49	13.42	13.02	13.28	13.26	13.60	0
		1	99	13.53	12.88	13.05	13.17	13.24	0
		50	0	13.29	13.02	13.13	13.12	13.32	0
		50	24	13.26	13.01	13.09	13.09	13.28	0
		50	50	13.23	12.99	12.97	13.04	13.24	0
		100	0	13.27	12.98	13.09	13.10	13.25	0
	64QAM	1	0	13.86	13.59	13.63	13.56	13.80	0
		1	49	13.89	13.59	13.59	13.53	13.75	0
		1	99	13.87	13.47	13.45	13.41	13.61	0
		50	0	13.73	13.45	13.57	13.50	13.75	0
		50	24	13.69	13.43	13.53	13.47	13.71	0
		50	50	13.67	13.42	13.49	13.44	13.68	0
		100	0	13.68	13.40	13.51	13.46	13.70	0
	256QAM	1	0	13.63	13.46	13.66	13.57	13.78	0
		1	49	13.37	13.21	13.34	13.22	13.46	0
		1	99	13.60	13.38	13.50	13.46	13.65	0
		50	0	13.76	13.51	13.63	13.56	13.79	0
		50	24	13.75	13.48	13.61	13.54	13.77	0
		50	50	13.72	13.46	13.55	13.52	13.73	0
		100	0	13.67	13.39	13.51	13.46	13.68	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
15 MHz	QPSK	1	0	13.50	13.07	13.25	13.25	13.37	0
		1	36	13.37	12.97	13.12	13.07	13.31	0
		1	74	13.36	12.97	13.10	13.06	13.33	0
		36	0	13.52	13.11	13.25	13.25	13.46	0
		36	18	13.52	13.12	13.25	13.23	13.45	0
		36	37	13.50	13.05	13.18	13.17	13.39	0
		75	0	13.52	13.14	13.24	13.23	13.48	0
	16QAM	1	0	13.27	13.29	13.14	13.24	13.33	0
		1	36	13.21	12.91	13.02	13.08	13.31	0
		1	74	13.18	13.07	13.17	12.96	13.28	0
		36	0	13.42	13.10	13.15	13.21	13.39	0
		36	18	13.39	13.07	13.16	13.17	13.35	0
		36	37	13.36	13.04	13.10	13.17	13.34	0
		75	0	13.42	13.06	13.15	13.19	13.38	0
	64QAM	1	0	13.68	13.76	13.59	13.47	13.82	0
		1	36	13.60	13.68	13.46	13.38	13.73	0
		1	74	13.67	13.75	13.50	13.43	13.76	0
		36	0	13.66	13.37	13.52	13.43	13.65	0
		36	18	13.65	13.37	13.50	13.43	13.64	0
		36	37	13.62	13.34	13.47	13.39	13.61	0
		75	0	13.66	13.37	13.51	13.43	13.65	0
	256QAM	1	0	13.66	13.27	13.54	13.45	13.53	0
		1	36	13.54	13.17	13.43	13.34	13.43	0
		1	74	13.57	13.22	13.46	13.38	13.45	0
		36	0	13.65	13.38	13.49	13.42	13.67	0
		36	18	13.64	13.37	13.48	13.40	13.65	0
		36	37	13.62	13.35	13.45	13.38	13.63	0
		75	0	13.65	13.38	13.51	13.43	13.66	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39750	40185	40620	41055	41490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
10 MHz	QPSK	1	0	13.46	13.11	13.27	13.24	13.40	0
		1	25	13.32	13.01	13.12	13.09	13.30	0
		1	49	13.35	13.10	13.12	13.13	13.39	0
		25	0	13.41	13.08	13.18	13.18	13.39	0
		25	12	13.40	13.06	13.18	13.15	13.37	0
		25	25	13.37	13.06	13.15	13.14	13.33	0
		50	0	13.37	13.05	13.18	13.20	13.36	0
	16QAM	1	0	13.14	13.18	13.31	13.11	13.32	0
		1	25	13.10	13.13	13.01	12.95	13.19	0
		1	49	13.21	13.07	13.20	13.05	13.36	0
		25	0	13.30	13.00	13.13	13.13	13.30	0
		25	12	13.29	13.02	13.10	13.14	13.28	0
		25	25	13.25	12.97	13.09	13.09	13.25	0
		50	0	13.28	13.01	13.10	13.10	13.30	0
	64QAM	1	0	13.86	13.42	13.88	13.68	13.88	0
		1	25	13.83	13.40	13.78	13.62	13.85	0
		1	49	13.78	13.66	13.75	13.59	13.81	0
		25	0	13.57	13.35	13.50	13.37	13.64	0
		25	12	13.54	13.33	13.46	13.35	13.61	0
		25	25	13.54	13.34	13.45	13.36	13.60	0
		50	0	13.70	13.43	13.54	13.48	13.72	0
	256QAM	1	0	13.50	13.42	13.55	13.47	13.69	0
		1	25	13.45	13.37	13.48	13.44	13.62	0
		1	49	13.47	13.41	13.51	13.47	13.65	0
		25	0	13.60	13.36	13.50	13.42	13.63	0
		25	12	13.57	13.34	13.47	13.39	13.61	0
		25	25	13.57	13.33	13.45	13.39	13.60	0
		50	0	13.75	13.47	13.59	13.53	13.77	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
5 MHz	QPSK	1	0	13.37	12.97	13.22	13.25	13.39	0
		1	12	13.26	12.80	13.14	13.09	13.32	0
		1	24	13.33	12.89	13.14	13.10	13.36	0
		12	0	13.32	12.96	13.13	13.15	13.37	0
		12	7	13.33	12.94	13.15	13.16	13.39	0
		12	13	13.30	12.93	13.12	13.15	13.36	0
		25	0	13.28	12.98	13.10	13.14	13.38	0
	16QAM	1	0	13.18	13.02	13.04	13.18	13.43	0
		1	12	13.03	12.87	12.79	13.01	13.28	0
		1	24	13.12	13.00	12.96	13.09	13.45	0
		12	0	13.22	12.95	13.13	13.08	13.31	0
		12	7	13.17	12.93	13.12	13.10	13.29	0
		12	13	13.14	12.94	13.10	13.09	13.25	0
		25	0	13.24	12.89	13.08	13.09	13.25	0
	64QAM	1	0	13.87	13.60	13.72	13.63	13.87	0
		1	12	13.71	13.38	13.52	13.44	13.65	0
		1	24	13.89	13.62	13.73	13.65	13.87	0
		12	0	13.58	13.40	13.52	13.43	13.67	0
		12	7	13.57	13.40	13.52	13.43	13.67	0
		12	13	13.55	13.40	13.50	13.42	13.64	0
		25	0	13.59	13.33	13.44	13.36	13.59	0
	256QAM	1	0	13.57	13.28	13.40	13.32	13.55	0
		1	12	13.40	13.04	13.17	13.09	13.33	0
		1	24	13.52	13.24	13.34	13.27	13.50	0
		12	0	13.57	13.40	13.51	13.43	13.66	0
		12	7	13.56	13.39	13.50	13.43	13.65	0
		12	13	13.56	13.38	13.48	13.41	13.64	0
		25	0	13.59	13.36	13.46	13.39	13.61	0

10.5.14 LTE Band 41 (Power Class 3)

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
20 MHz	QPSK	1	0	13.46	13.05	13.20	13.20	13.50	0
		1	49	13.40	13.02	13.07	13.11	13.47	0
		1	99	13.28	12.90	13.02	13.02	13.32	0
		50	0	13.34	13.01	13.15	13.18	13.42	0
		50	24	13.32	13.00	13.08	13.11	13.39	0
		50	50	13.28	12.95	13.02	13.02	13.35	0
		100	0	13.31	13.01	13.11	13.10	13.39	0
	16QAM	1	0	13.20	13.21	12.93	13.08	13.52	0
		1	49	13.44	13.16	13.04	12.91	13.29	0
		1	99	13.25	13.06	13.05	13.16	13.19	0
		50	0	13.32	12.97	13.03	13.10	13.28	0
		50	24	13.29	12.96	13.00	13.06	13.24	0
		50	50	13.26	12.92	12.92	13.03	13.20	0
		100	0	13.24	12.94	12.99	13.05	13.21	0
	64QAM	1	0	13.73	13.49	13.55	13.36	13.70	0
		1	49	13.65	13.44	13.47	13.38	13.53	0
		1	99	13.54	13.42	13.36	13.42	13.55	0
		50	0	13.78	13.50	13.61	13.57	13.79	0
		50	24	13.77	13.48	13.58	13.53	13.77	0
		50	50	13.72	13.45	13.54	13.51	13.74	0
		100	0	13.72	13.42	13.53	13.49	13.71	0
	256QAM	1	0	13.49	13.17	13.46	13.42	13.55	0
		1	49	13.45	13.14	13.41	13.38	13.55	0
		1	99	13.39	13.16	13.29	13.30	13.51	0
		50	0	13.84	13.55	13.68	13.62	13.86	0
		50	24	13.81	13.53	13.62	13.59	13.82	0
		50	50	13.76	13.50	13.59	13.56	13.79	0
		100	0	13.72	13.44	13.57	13.52	13.75	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
15 MHz	QPSK	1	0	13.37	13.03	13.18	13.22	13.41	0
		1	36	13.28	12.91	13.04	13.05	13.27	0
		1	74	13.21	12.94	13.04	13.09	13.25	0
		36	0	13.41	13.08	13.21	13.21	13.41	0
		36	18	13.37	13.04	13.13	13.19	13.42	0
		36	37	13.34	13.02	13.11	13.17	13.36	0
		75	0	13.39	13.08	13.18	13.23	13.40	0
	16QAM	1	0	13.29	12.92	13.35	13.05	13.34	0
		1	36	13.19	12.72	13.21	12.91	13.23	0
		1	74	13.20	12.71	13.08	13.00	13.23	0
		36	0	13.31	13.00	13.16	13.17	13.41	0
		36	18	13.28	12.97	13.13	13.12	13.31	0
		36	37	13.26	12.93	13.09	13.07	13.30	0
		75	0	13.29	12.99	13.12	13.07	13.33	0
	64QAM	1	0	13.57	13.27	13.48	13.43	13.64	0
		1	36	13.56	13.29	13.33	13.28	13.49	0
		1	74	13.52	13.32	13.29	13.39	13.45	0
		36	0	13.62	13.38	13.51	13.44	13.67	0
		36	18	13.61	13.38	13.49	13.42	13.66	0
		36	37	13.59	13.37	13.47	13.41	13.63	0
		75	0	13.68	13.41	13.53	13.48	13.72	0
	256QAM	1	0	13.50	13.26	13.33	13.31	13.61	0
		1	36	13.40	13.19	13.19	13.20	13.45	0
		1	74	13.42	13.17	13.21	13.27	13.46	0
		36	0	13.66	13.42	13.54	13.49	13.71	0
		36	18	13.63	13.39	13.52	13.47	13.69	0
		36	37	13.61	13.39	13.49	13.43	13.66	0
		75	0	13.69	13.43	13.55	13.49	13.73	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
10 MHz	QPSK	1	0	13.26	12.86	13.08	13.03	13.22	0
		1	25	13.26	12.94	13.02	13.09	13.22	0
		1	49	13.32	13.02	13.09	13.13	13.32	0
		25	0	13.28	13.01	13.10	13.09	13.30	0
		25	12	13.29	12.95	13.03	13.09	13.30	0
		25	25	13.29	13.01	13.07	13.11	13.31	0
		50	0	13.20	13.01	12.86	13.39	13.32	0
	16QAM	1	0	13.13	12.80	12.71	13.34	13.16	0
		1	25	13.12	12.98	12.84	13.25	13.33	0
		1	49	13.24	12.90	13.05	13.04	13.22	0
		25	0	13.19	12.92	13.06	13.00	13.22	0
		25	12	13.21	12.90	13.00	13.02	13.18	0
		25	25	13.19	12.86	13.04	13.02	13.22	0
		50	0	13.63	13.20	13.54	13.34	13.63	0
	64QAM	1	0	13.50	13.13	13.30	13.25	13.45	0
		1	25	13.59	13.15	13.35	13.35	13.60	0
		1	49	13.66	13.41	13.54	13.46	13.64	0
		25	0	13.65	13.40	13.51	13.45	13.63	0
		25	12	13.65	13.39	13.50	13.44	13.63	0
		25	25	13.75	13.47	13.59	13.51	13.73	0
		50	0	13.48	13.29	13.38	13.31	13.42	0
	256QAM	1	0	13.35	13.13	13.27	13.24	13.44	0
		1	25	13.40	13.21	13.30	13.29	13.44	0
		1	49	13.73	13.47	13.60	13.52	13.74	0
		25	0	13.71	13.46	13.60	13.50	13.72	0
		25	12	13.71	13.45	13.56	13.50	13.70	0
		25	25	13.80	13.52	13.62	13.57	13.79	0
		50	0	13.26	12.86	13.08	13.03	13.22	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)					MPR
				39 750	40 185	40 620	41 055	41 490	
				2 506.0 MHz	2 549.5 MHz	2 593.0 MHz	2 636.5 MHz	2 680.0 MHz	
5 MHz	QPSK	1	0	13.32	13.02	13.13	13.12	13.31	0
		1	12	13.24	12.87	12.97	13.02	13.15	0
		1	24	13.28	12.95	13.12	13.06	13.26	0
		12	0	13.29	12.94	13.06	13.11	13.28	0
		12	7	13.29	12.93	13.07	13.10	13.30	0
		12	13	13.23	12.93	13.07	13.07	13.30	0
		25	0	13.28	12.93	13.06	13.07	13.31	0
	16QAM	1	0	13.23	12.91	13.06	12.83	13.07	0
		1	12	13.24	12.67	12.92	12.73	13.10	0
		1	24	13.31	12.71	13.15	12.97	13.10	0
		12	0	13.21	12.93	13.04	13.06	13.26	0
		12	7	13.21	12.92	13.01	13.09	13.22	0
		12	13	13.21	12.89	12.99	13.02	13.21	0
		25	0	13.18	12.91	13.01	13.02	13.25	0
	64QAM	1	0	13.67	13.35	13.44	13.42	13.61	0
		1	12	13.76	13.34	13.45	13.40	13.58	0
		1	24	13.65	13.24	13.40	13.27	13.44	0
		12	0	13.54	13.31	13.38	13.31	13.55	0
		12	7	13.53	13.31	13.41	13.34	13.55	0
		12	13	13.50	13.24	13.37	13.35	13.55	0
		25	0	13.66	13.36	13.47	13.43	13.64	0
	256QAM	1	0	13.34	13.11	13.32	13.26	13.42	0
		1	12	13.35	13.09	13.29	13.27	13.43	0
		1	24	13.39	13.05	13.24	13.19	13.39	0
		12	0	13.58	13.34	13.42	13.37	13.59	0
		12	7	13.56	13.33	13.42	13.36	13.57	0
		12	13	13.56	13.33	13.46	13.36	13.58	0
		25	0	13.71	13.44	13.50	13.49	13.71	0

10.5.15 LTE Band 48

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 340	55 773	56 207	56 640	
				3 560.0 MHz	3 603.3 MHz	3 646.7 MHz	3 690.0 MHz	
20 MHz	QPSK	1	0	11.83	11.80	12.25	13.38	0
		1	49	12.00	11.97	12.41	13.44	0
		1	99	11.94	11.87	12.37	13.40	0
		50	0	11.90	11.91	12.32	13.34	0
		50	24	11.95	11.93	12.34	13.40	0
		50	50	12.01	11.95	12.39	13.44	0
		100	0	11.96	11.93	12.35	13.41	0
	16QAM	1	0	11.72	11.81	12.24	13.07	0
		1	49	11.60	11.74	12.15	13.07	0
		1	99	11.88	11.83	12.35	13.31	0
		50	0	11.91	11.90	12.28	13.36	0
		50	24	11.95	11.92	12.32	13.40	0
		50	50	12.01	11.93	12.36	13.46	0
		100	0	12.00	11.95	12.39	13.44	0
	64QAM	1	0	11.73	11.73	12.18	13.17	0
		1	49	11.86	11.91	12.21	13.28	0
		1	99	11.96	11.90	12.26	13.34	0
		50	0	11.94	11.92	12.32	13.39	0
		50	24	11.97	11.94	12.37	13.44	0
		50	50	12.02	11.95	12.40	13.49	0
		100	0	11.96	11.91	12.34	13.42	0
	256QAM	1	0	11.68	11.65	12.03	13.22	0
		1	49	11.88	11.75	12.15	13.19	0
		1	99	11.84	11.75	12.20	13.22	0
		50	0	12.00	11.97	12.39	13.46	0
		50	24	12.04	12.00	12.42	13.50	0
		50	50	12.09	12.01	12.45	13.44	0
		100	0	11.98	11.94	12.35	13.43	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 315	55 765	56 215	56 665	
				3 557.5 MHz	3 602.5 MHz	3 647.5 MHz	3 692.5 MHz	
15 MHz	QPSK	1	0	11.65	11.70	12.00	13.20	0
		1	36	11.67	11.64	12.08	13.17	0
		1	74	11.86	11.75	12.26	13.34	0
		36	0	11.76	11.81	12.19	13.26	0
		36	18	11.79	11.82	12.21	13.29	0
		36	37	11.83	11.83	12.23	13.30	0
		75	0	11.82	11.83	12.23	13.30	0
	16QAM	1	0	11.58	11.73	12.03	13.09	0
		1	36	11.56	11.66	11.93	13.08	0
		1	74	11.70	11.72	12.14	13.26	0
		36	0	11.77	11.75	12.18	13.25	0
		36	18	11.78	11.76	12.20	13.27	0
		36	37	11.84	11.77	12.23	13.32	0
		75	0	11.82	11.81	12.22	13.32	0
	64QAM	1	0	11.83	11.78	12.08	13.22	0
		1	36	11.81	11.75	12.15	13.20	0
		1	74	11.94	11.87	12.39	13.28	0
		36	0	11.80	11.80	12.20	13.27	0
		36	18	11.84	11.81	12.25	13.33	0
		36	37	11.88	11.83	12.28	13.34	0
		75	0	11.84	11.83	12.25	13.34	0
	256QAM	1	0	11.69	11.60	12.01	13.00	0
		1	36	11.60	11.59	12.03	13.05	0
		1	74	11.81	11.66	12.14	13.34	0
		36	0	11.83	11.85	12.25	13.31	0
		36	18	11.85	11.87	12.28	13.34	0
		36	37	11.90	11.88	12.32	13.39	0
		75	0	11.85	11.84	12.27	13.33	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 290	55 757	56 223	56 690	
				3 555.0 MHz	3 601.7 MHz	3 648.3 MHz	3 695.0 MHz	
10 MHz	QPSK	1	0	11.77	11.80	12.15	13.18	0
		1	25	11.69	11.69	12.12	13.08	0
		1	49	11.79	11.76	12.23	13.27	0
		25	0	11.79	11.81	12.24	13.28	0
		25	12	11.81	11.81	12.24	13.27	0
		25	25	11.83	11.81	12.27	13.31	0
		50	0	11.82	11.80	12.26	13.29	0
	16QAM	1	0	11.75	11.74	12.19	13.20	0
		1	25	11.69	11.73	12.09	13.10	0
		1	49	11.77	11.85	12.22	13.25	0
		25	0	11.82	11.81	12.25	13.27	0
		25	12	11.82	11.82	12.25	13.26	0
		25	25	11.85	11.82	12.29	13.29	0
		50	0	11.84	11.81	12.26	13.28	0
	64QAM	1	0	11.86	11.74	12.35	13.17	0
		1	25	11.83	11.67	12.27	13.17	0
		1	49	11.96	11.82	12.32	13.23	0
		25	0	11.80	11.81	12.26	13.23	0
		25	12	11.83	11.84	12.26	13.25	0
		25	25	11.85	11.84	12.29	13.28	0
		50	0	11.88	11.88	12.31	13.32	0
	256QAM	1	0	11.64	11.61	12.05	12.99	0
		1	25	11.58	11.53	12.07	13.00	0
		1	49	11.69	11.69	12.12	13.12	0
		25	0	11.88	11.87	12.29	13.30	0
		25	12	11.88	11.88	12.31	13.33	0
		25	25	11.91	11.89	12.36	13.36	0
		50	0	11.91	11.91	12.34	13.36	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power (dBm)				MPR
				55 265	55 748	56 232	56 715	
				3 552.5 MHz	3 600.8 MHz	3 649.2 MHz	3 697.5 MHz	
5 MHz	QPSK	1	0	11.73	11.77	12.26	13.14	0
		1	12	11.83	11.91	12.30	13.40	0
		1	24	11.82	11.84	12.29	13.17	0
		12	0	11.79	11.83	12.25	13.23	0
		12	7	11.81	11.85	12.26	13.24	0
		12	13	11.82	11.86	12.27	13.24	0
		25	0	11.84	11.86	12.27	13.27	0
	16QAM	1	0	11.70	11.68	12.18	13.12	0
		1	12	11.73	11.59	12.06	12.92	0
		1	24	11.76	11.77	12.22	13.19	0
		12	0	11.78	11.82	12.22	13.16	0
		12	7	11.78	11.83	12.25	13.15	0
		12	13	11.79	11.85	12.26	13.17	0
		25	0	11.85	11.85	12.28	13.23	0
	64QAM	1	0	11.81	11.81	12.30	13.08	0
		1	12	12.19	12.00	12.39	13.34	0
		1	24	12.03	11.86	12.33	13.22	0
		12	0	11.81	11.81	12.23	13.15	0
		12	7	11.83	11.80	12.25	13.16	0
		12	13	11.80	11.84	12.25	13.18	0
		25	0	11.85	11.85	12.31	13.22	0
	256QAM	1	0	11.72	11.72	12.10	12.95	0
		1	12	11.78	11.85	12.07	13.14	0
		1	24	11.79	11.69	12.17	13.02	0
		12	0	11.84	11.88	12.30	13.24	0
		12	7	11.85	11.89	12.32	13.26	0
		12	13	11.86	11.90	12.34	13.25	0
		25	0	11.90	11.89	12.36	13.27	0

10.5.16 LTE Band 66 (Main1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	13.73	14.00	13.59	0
		1	49	13.85	14.05	13.65	0
		1	99	13.86	13.98	13.60	0
		50	0	13.89	14.03	13.75	0
		50	24	13.84	14.01	13.69	0
		50	50	13.79	14.06	13.69	0
		100	0	13.86	14.03	13.71	0
	16QAM	1	0	13.91	14.23	13.73	0
		1	49	13.78	14.12	13.77	0
		1	99	14.07	14.27	13.94	0
		50	0	13.84	14.02	13.72	0
		50	24	13.83	14.09	13.71	0
		50	50	13.85	14.13	13.67	0
		100	0	13.84	14.04	13.69	0
	64QAM	1	0	13.86	14.01	13.84	0
		1	49	13.78	14.01	13.79	0
		1	99	14.00	14.09	13.77	0
		50	0	13.78	14.02	13.74	0
		50	24	13.84	14.10	13.72	0
		50	50	13.87	14.07	13.76	0
		100	0	13.84	14.04	13.64	0
	256QAM	1	0	13.92	14.15	13.80	0
		1	49	13.93	14.08	13.70	0
		1	99	13.91	14.21	13.83	0
		50	0	13.80	14.07	13.67	0
		50	24	13.89	14.09	13.69	0
		50	50	13.94	14.03	13.68	0
		100	0	13.84	14.09	13.62	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	13.87	14.00	13.61	0
		1	36	13.79	13.97	13.48	0
		1	74	13.88	14.02	13.61	0
		36	0	13.93	14.02	13.55	0
		36	18	13.96	14.06	13.56	0
		36	37	13.93	14.15	13.62	0
		75	0	14.00	14.14	13.57	0
	16QAM	1	0	14.19	14.24	13.69	0
		1	36	14.10	14.12	13.65	0
		1	74	14.23	14.28	13.80	0
		36	0	13.88	14.03	13.54	0
		36	18	13.87	14.03	13.53	0
		36	37	13.93	14.12	13.57	0
		75	0	13.91	14.01	13.54	0
	64QAM	1	0	14.14	14.16	13.75	0
		1	36	13.95	14.03	13.59	0
		1	74	14.15	14.20	13.71	0
		36	0	13.91	14.01	13.61	0
		36	18	13.92	14.05	13.58	0
		36	37	13.94	14.10	13.61	0
		75	0	13.89	14.02	13.56	0
	256QAM	1	0	14.07	14.13	13.69	0
		1	36	13.92	13.99	13.55	0
		1	74	14.11	14.25	13.79	0
		36	0	14.01	14.06	13.63	0
		36	18	13.94	14.05	13.58	0
		36	37	13.98	14.06	13.60	0
		75	0	13.96	14.03	13.56	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	13.89	14.02	13.44	0
		1	25	13.73	13.79	13.30	0
		1	49	13.93	14.04	13.56	0
		25	0	13.94	14.09	13.55	0
		25	12	13.92	14.09	13.56	0
		25	25	13.96	14.05	13.54	0
		50	0	13.92	14.06	13.63	0
	16QAM	1	0	14.12	14.30	13.83	0
		1	25	14.00	14.17	13.78	0
		1	49	14.09	14.47	13.82	0
		25	0	13.94	14.09	13.56	0
		25	12	13.85	14.08	13.51	0
		25	25	13.93	14.07	13.61	0
		50	0	13.97	14.09	13.52	0
	64QAM	1	0	14.05	14.12	13.65	0
		1	25	14.00	14.04	13.59	0
		1	49	14.13	14.26	13.60	0
		25	0	13.84	13.98	13.52	0
		25	12	13.91	14.07	13.49	0
		25	25	13.93	14.03	13.52	0
		50	0	13.92	14.11	13.56	0
	256QAM	1	0	13.84	14.12	13.53	0
		1	25	13.92	14.08	13.56	0
		1	49	14.09	14.14	13.63	0
		25	0	13.93	14.08	13.51	0
		25	12	13.92	14.04	13.57	0
		25	25	13.92	14.06	13.53	0
		50	0	13.94	14.05	13.54	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	13.75	13.98	13.42	0
		1	12	13.91	14.11	13.60	0
		1	24	13.77	14.01	13.38	0
		12	0	13.84	14.03	13.46	0
		12	7	13.83	14.02	13.47	0
		12	13	13.89	14.09	13.47	0
		25	0	13.88	14.08	13.48	0
	16QAM	1	0	13.92	14.05	13.58	0
		1	12	13.90	14.08	13.34	0
		1	24	14.01	14.43	13.58	0
		12	0	13.88	14.09	13.55	0
		12	7	13.86	14.13	13.53	0
		12	13	13.86	14.04	13.48	0
		25	0	13.83	14.07	13.43	0
	64QAM	1	0	14.09	14.20	13.60	0
		1	12	14.00	14.19	13.60	0
		1	24	13.92	14.28	13.68	0
		12	0	13.86	14.09	13.48	0
		12	7	13.86	14.05	13.42	0
		12	13	13.86	14.03	13.49	0
		25	0	13.90	14.04	13.45	0
	256QAM	1	0	13.88	14.07	13.56	0
		1	12	13.92	14.03	13.60	0
		1	24	13.89	14.15	13.60	0
		12	0	13.83	14.08	13.46	0
		12	7	13.77	14.01	13.41	0
		12	13	13.85	14.04	13.44	0
		25	0	13.83	14.00	13.48	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	13.70	13.89	13.31	0
		1	8	13.76	13.90	13.31	0
		1	14	13.85	13.94	13.35	0
		8	0	13.77	13.98	13.43	0
		8	4	13.75	13.95	13.39	0
		8	7	13.82	14.04	13.48	0
		15	0	13.82	13.99	13.49	0
	16QAM	1	0	14.04	14.30	13.60	0
		1	8	14.02	14.10	13.57	0
		1	14	13.98	14.12	13.63	0
		8	0	13.85	14.02	13.48	0
		8	4	13.78	14.02	13.42	0
		8	7	13.86	14.00	13.43	0
		15	0	13.75	13.99	13.40	0
	64QAM	1	0	13.98	14.10	13.57	0
		1	8	13.92	14.06	13.51	0
		1	14	14.06	14.19	13.55	0
		8	0	13.84	13.98	13.37	0
		8	4	13.83	13.99	13.43	0
		8	7	13.81	14.03	13.48	0
		15	0	13.80	14.10	13.37	0
	256QAM	1	0	13.87	14.03	13.45	0
		1	8	13.84	14.15	13.52	0
		1	14	13.92	14.10	13.52	0
		8	0	13.81	14.00	13.41	0
		8	4	13.81	13.98	13.37	0
		8	7	13.81	14.02	13.39	0
		15	0	13.77	14.02	13.39	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	13.74	13.95	13.34	0
		1	3	13.54	13.86	13.20	0
		1	5	13.71	13.91	13.35	0
		3	0	13.69	13.94	13.39	0
		3	1	13.72	13.88	13.39	0
		3	3	13.69	13.94	13.29	0
		6	0	13.74	13.96	13.34	0
	16QAM	1	0	14.04	14.21	13.47	0
		1	3	13.81	14.10	13.42	0
		1	5	14.04	14.01	13.55	0
		3	0	13.76	14.03	13.50	0
		3	1	13.72	14.05	13.49	0
		3	3	13.80	14.04	13.52	0
		6	0	13.80	14.00	13.42	0
	64QAM	1	0	13.83	14.18	13.66	0
		1	3	13.90	14.01	13.41	0
		1	5	13.96	13.99	13.51	0
		3	0	13.68	14.11	13.48	0
		3	1	13.77	14.00	13.47	0
		3	3	13.80	13.99	13.31	0
		6	0	13.70	13.96	13.42	0
	256QAM	1	0	13.93	14.12	13.45	0
		1	3	13.76	13.95	13.20	0
		1	5	13.79	14.12	13.42	0
		3	0	13.68	13.94	13.45	0
		3	1	13.73	13.97	13.22	0
		3	3	13.80	13.93	13.37	0
		6	0	13.75	13.90	13.41	0

10.5.17 LTE Band 66 (Sub1)

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	14.46	14.69	14.54	0
		1	49	14.47	14.71	14.64	0
		1	99	14.44	14.65	14.48	0
		50	0	14.54	14.78	14.59	0
		50	24	14.49	14.74	14.57	0
		50	50	14.48	14.72	14.56	0
		100	0	14.50	14.68	14.49	0
	16QAM	1	0	14.76	14.86	14.83	0
		1	49	14.81	14.78	14.73	0
		1	99	14.78	14.96	14.88	0
		50	0	14.51	14.75	14.67	0
		50	24	14.56	14.74	14.67	0
		50	50	14.47	14.68	14.55	0
		100	0	14.50	14.74	14.61	0
	64QAM	1	0	14.73	14.88	14.78	0
		1	49	14.62	14.95	14.81	0
		1	99	14.70	14.82	14.68	0
		50	0	14.61	14.84	14.66	0
		50	24	14.53	14.74	14.66	0
		50	50	14.50	14.75	14.67	0
		100	0	14.51	14.72	14.61	0
	256QAM	1	0	14.65	14.97	14.78	0
		1	49	14.76	14.94	14.81	0
		1	99	14.66	14.75	14.72	0
		50	0	14.53	14.84	14.68	0
		50	24	14.56	14.77	14.66	0
		50	50	14.57	14.74	14.57	0
		100	0	14.50	14.74	14.60	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	14.51	14.79	14.63	0
		1	36	14.59	14.75	14.77	0
		1	74	14.28	14.60	14.33	0
		36	0	14.55	14.80	14.66	0
		36	18	14.57	14.87	14.73	0
		36	37	14.49	14.76	14.55	0
		75	0	14.60	14.71	14.54	0
	16QAM	1	0	14.95	14.94	14.94	0
		1	36	14.93	14.98	14.98	0
		1	74	14.67	14.90	14.74	0
		36	0	14.55	14.80	14.72	0
		36	18	14.68	14.81	14.80	0
		36	37	14.61	14.83	14.67	0
		75	0	14.45	14.74	14.63	0
	64QAM	1	0	14.87	14.94	14.82	0
		1	36	14.46	14.79	14.66	0
		1	74	14.66	14.77	14.62	0
		36	0	14.62	14.83	14.59	0
		36	18	14.64	14.79	14.68	0
		36	37	14.52	14.83	14.81	0
		75	0	14.56	14.76	14.59	0
	256QAM	1	0	14.70	14.98	14.83	0
		1	36	14.72	14.92	14.78	0
		1	74	14.79	14.90	14.83	0
		36	0	14.60	14.83	14.66	0
		36	18	14.64	14.80	14.63	0
		36	37	14.58	14.76	14.60	0
		75	0	14.54	14.77	14.63	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	14.49	14.76	14.65	0
		1	25	14.45	14.62	14.71	0
		1	49	14.42	14.67	14.39	0
		25	0	14.41	14.70	14.56	0
		25	12	14.48	14.70	14.51	0
		25	25	14.50	14.71	14.59	0
		50	0	14.45	14.69	14.51	0
	16QAM	1	0	14.78	14.93	14.98	0
		1	25	14.92	14.95	14.89	0
		1	49	14.94	14.98	14.93	0
		25	0	14.59	14.78	14.68	0
		25	12	14.61	14.78	14.70	0
		25	25	14.45	14.72	14.60	0
		50	0	14.51	14.76	14.62	0
	64QAM	1	0	14.83	14.94	14.85	0
		1	25	14.53	14.84	14.73	0
		1	49	14.80	14.92	14.77	0
		25	0	14.48	14.70	14.55	0
		25	12	14.52	14.74	14.67	0
		25	25	14.47	14.75	14.70	0
		50	0	14.58	14.74	14.56	0
	256QAM	1	0	14.69	14.99	14.83	0
		1	25	14.72	14.91	14.78	0
		1	49	14.69	14.83	14.74	0
		25	0	14.42	14.72	14.56	0
		25	12	14.57	14.81	14.73	0
		25	25	14.51	14.73	14.49	0
		50	0	14.51	14.72	14.62	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	14.61	14.88	14.72	0
		1	12	14.75	14.83	14.90	0
		1	24	14.50	14.80	14.53	0
		12	0	14.52	14.77	14.58	0
		12	7	14.67	14.84	14.75	0
		12	13	14.65	14.84	14.64	0
		25	0	14.60	14.79	14.63	0
	16QAM	1	0	14.97	14.99	14.98	0
		1	12	14.99	14.94	14.99	0
		1	24	14.87	14.94	14.93	0
		12	0	14.51	14.74	14.68	0
		12	7	14.62	14.76	14.69	0
		12	13	14.60	14.88	14.80	0
		25	0	14.62	14.79	14.65	0
	64QAM	1	0	14.89	14.98	14.92	0
		1	12	14.53	14.85	14.65	0
		1	24	14.71	14.76	14.54	0
		12	0	14.58	14.83	14.65	0
		12	7	14.59	14.76	14.72	0
		12	13	14.56	14.77	14.69	0
		25	0	14.59	14.76	14.73	0
	256QAM	1	0	14.62	14.95	14.73	0
		1	12	14.75	14.91	14.79	0
		1	24	14.86	14.98	14.98	0
		12	0	14.47	14.78	14.68	0
		12	7	14.48	14.70	14.55	0
		12	13	14.63	14.73	14.56	0
		25	0	14.42	14.69	14.62	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	14.43	14.66	14.54	0
		1	8	14.50	14.55	14.68	0
		1	14	14.36	14.65	14.41	0
		8	0	14.36	14.64	14.48	0
		8	4	14.44	14.68	14.54	0
		8	7	14.45	14.66	14.52	0
		15	0	14.42	14.58	14.41	0
	16QAM	1	0	14.90	14.94	14.93	0
		1	8	14.94	14.93	14.94	0
		1	14	14.88	14.95	14.95	0
		8	0	14.49	14.73	14.65	0
		8	4	14.51	14.67	14.60	0
		8	7	14.63	14.81	14.64	0
		15	0	14.43	14.67	14.53	0
	64QAM	1	0	14.76	14.95	14.81	0
		1	8	14.63	14.95	14.77	0
		1	14	14.77	14.86	14.70	0
		8	0	14.33	14.60	14.43	0
		8	4	14.49	14.70	14.60	0
		8	7	14.45	14.69	14.63	0
		15	0	14.46	14.62	14.54	0
	256QAM	1	0	14.69	14.98	14.79	0
		1	8	14.62	14.81	14.68	0
		1	14	14.73	14.78	14.76	0
		8	0	14.35	14.67	14.59	0
		8	4	14.51	14.67	14.56	0
		8	7	14.54	14.69	14.57	0
		15	0	14.37	14.58	14.43	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	14.47	14.73	14.57	0
		1	3	14.64	14.78	14.79	0
		1	5	14.50	14.78	14.50	0
		3	0	14.47	14.73	14.51	0
		3	1	14.47	14.70	14.49	0
		3	3	14.41	14.61	14.44	0
		6	0	14.46	14.69	14.49	0
	16QAM	1	0	14.86	14.93	14.87	0
		1	3	14.99	14.91	14.88	0
		1	5	14.80	14.97	14.88	0
		3	0	14.60	14.82	14.76	0
		3	1	14.75	14.91	14.86	0
		3	3	14.65	14.82	14.67	0
		6	0	14.45	14.76	14.63	0
	64QAM	1	0	14.58	14.75	14.70	0
		1	3	14.40	14.78	14.66	0
		1	5	14.66	14.76	14.63	0
		3	0	14.53	14.76	14.62	0
		3	1	14.53	14.75	14.65	0
		3	3	14.50	14.72	14.64	0
		6	0	14.55	14.73	14.63	0
	256QAM	1	0	14.44	14.70	14.56	0
		1	3	14.63	14.81	14.71	0
		1	5	14.58	14.73	14.67	0
		3	0	14.57	14.89	14.71	0
		3	1	14.54	14.78	14.67	0
		3	3	14.55	14.76	14.63	0
		6	0	14.52	14.77	14.65	0

10.5.18 LTE Band 71

Band width	Modulation	RB Size	RB offset	Maximum Average Power	
				133 297	MPR
				680.5 MHz	
20 MHz	QPSK	1	0	19.08	0
		1	49	19.00	0
		1	99	18.88	0
		50	0	19.10	0
		50	24	19.04	0
		50	50	19.01	0
		100	0	19.02	0
	16QAM	1	0	19.15	0
		1	49	19.17	0
		1	99	18.97	0
		50	0	18.98	0
		50	24	18.98	0
		50	50	18.91	0
		100	0	18.96	0
	64QAM	1	0	19.50	0
		1	49	19.48	0
		1	99	19.33	0
		50	0	19.43	0
		50	24	19.37	0
		50	50	19.35	0
		100	0	19.38	0
	256QAM	1	0	19.50	0
		1	49	19.34	0
		1	99	19.21	0
		50	0	19.41	0
		50	24	19.39	0
		50	50	19.26	0
		100	0	19.39	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power		MPR
				133 297		
				680.5 MHz		
15 MHz	QPSK	1	0	19.03	0	
		1	36	18.86	0	
		1	74	18.92	0	
		36	0	19.13	0	
		36	18	19.05	0	
		36	37	19.02	0	
		75	0	19.06	0	
	16QAM	1	0	19.24	0	
		1	36	19.09	0	
		1	74	19.16	0	
		36	0	19.10	0	
		36	18	19.05	0	
		36	37	18.98	0	
		75	0	19.06	0	
	64QAM	1	0	19.50	0	
		1	36	19.40	0	
		1	74	19.45	0	
		36	0	19.40	0	
		36	18	19.37	0	
		36	37	19.31	0	
		75	0	19.39	0	
	256QAM	1	0	19.50	0	
		1	36	19.36	0	
		1	74	19.38	0	
		36	0	19.39	0	
		36	18	19.34	0	
		36	37	19.29	0	
		75	0	19.34	0	

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				133 172	133 297	133 422	
				668.0 MHz	680.5 MHz	693.0 MHz	
10 MHz	QPSK	1	0	18.58	18.98	18.84	0
		1	25	18.47	18.83	18.61	0
		1	49	18.50	18.91	18.64	0
		25	0	18.53	19.08	18.77	0
		25	12	18.53	19.00	18.70	0
		25	25	18.48	18.98	18.69	0
		50	0	18.50	19.04	18.71	0
	16QAM	1	0	18.73	19.41	18.89	0
		1	25	18.67	19.31	18.71	0
		1	49	18.68	19.23	18.74	0
		25	0	18.57	19.00	18.74	0
		25	12	18.50	18.98	18.64	0
		25	25	18.48	18.95	18.68	0
		50	0	18.49	18.97	18.68	0
	64QAM	1	0	18.89	19.35	19.41	0
		1	25	18.63	19.40	19.02	0
		1	49	18.80	19.27	19.12	0
		25	0	18.73	19.30	19.01	0
		25	12	18.76	19.25	19.00	0
		25	25	18.76	19.17	18.91	0
		50	0	18.83	19.33	19.00	0
	256QAM	1	0	18.98	19.49	19.14	0
		1	25	18.72	19.39	19.06	0
		1	49	18.86	19.36	19.01	0
		25	0	18.81	19.41	19.07	0
		25	12	18.82	19.33	19.02	0
		25	25	18.75	19.22	18.99	0
		50	0	18.85	19.40	19.03	0

Band width	Modulation	RB Size	RB offset	Maximum Average Power			MPR
				133 147	133 297	13 3447	
				665.5 MHz	680.5 MHz	695.5 MHz	
5 MHz	QPSK	1	0	18.34	19.07	18.67	0
		1	12	18.17	18.97	18.61	0
		1	24	18.37	18.97	18.66	0
		12	0	18.37	19.02	18.68	0
		12	7	18.36	18.97	18.69	0
		12	13	18.35	18.98	18.67	0
		25	0	18.36	19.04	18.66	0
	16QAM	1	0	18.66	19.17	18.95	0
		1	12	18.55	19.11	18.76	0
		1	24	18.62	19.13	18.88	0
		12	0	18.35	19.06	18.69	0
		12	7	18.36	19.03	18.68	0
		12	13	18.36	19.03	18.68	0
		25	0	18.32	19.00	18.65	0
	64QAM	1	0	18.82	19.34	19.05	0
		1	12	18.72	19.20	18.94	0
		1	24	18.70	19.33	18.90	0
		12	0	18.54	19.29	18.94	0
		12	7	18.67	19.30	18.90	0
		12	13	18.52	19.21	18.87	0
		25	0	18.66	19.21	18.92	0
	256QAM	1	0	18.64	19.47	19.09	0
		1	12	18.61	19.38	18.99	0
		1	24	18.52	19.34	19.07	0
		12	0	18.61	19.28	18.95	0
		12	7	18.62	19.23	18.91	0
		12	13	18.56	19.22	18.88	0
		25	0	18.63	19.23	18.99	0

10.6 5G NR Average Conducted Output Power(Back-off_Grip Sensor)

10.6.1 NR n5(SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300		
					836.5 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.53	0	
			1	53	16.56	0	
			1	104	16.27	0	
			50	0	16.54	0	
			50	28	16.49	0	
			50	56	16.42	0	
			100	0	16.48	0	
		QPSK	1	1	16.57	0	
			1	53	16.48	0	
			1	104	16.32	0	
			50	0	16.45	0	
			50	28	16.55	0	
			50	56	16.41	0	
	100	0	16.53	0			
	16QAM	1	1	16.52	0		
	64QAM	1	1	16.62	0		
256QAM	1	1	16.60	0			
CP-OFDM	QPSK	1	1	16.51	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300		
					836.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.55	0	
			1	40	16.37	0	
			1	77	16.34	0	
			36	0	16.60	0	
			36	22	16.51	0	
			36	43	16.46	0	
			75	0	16.52	0	
		QPSK	1	1	16.62	0	
			1	40	16.51	0	
			1	77	16.37	0	
			36	0	16.62	0	
			36	22	16.49	0	
			36	43	16.51	0	
	75	0	16.55	0			
	16QAM	1	1	16.57	0		
	64QAM	1	1	16.66	0		
256QAM	1	1	16.64	0			
CP-OFDM	QPSK	1	1	16.60	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					167 300	836.5 MHz	
					10 MHz	DFT-s-OFDM	
			1	26	16.60	0	
			1	50	16.47	0	
			25	0	16.62	0	
			25	14	16.52	0	
			25	27	16.58	0	
			50	0	16.60	0	
		QPSK	1	1	16.60	0	
			1	26	16.65	0	
			1	50	16.41	0	
			25	0	16.59	0	
			25	14	16.52	0	
			25	27	16.57	0	
			50	0	16.57	0	
		16QAM	1	1	16.50	0	
		64QAM	1	1	16.61	0	
		256QAM	1	1	16.63	0	
	CP-OFDM	QPSK	1	1	16.58	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR	
					165300	167300	169300		
					826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.48	16.58	16.58	0	
			1	13	16.28	16.45	16.40	0	
			1	23	16.61	16.61	16.58	0	
			12	0	16.51	16.64	16.74	0	
			12	7	16.40	16.57	16.52	0	
			12	13	16.56	16.60	16.49	0	
			25	0	16.49	16.58	16.65	0	
		QPSK	1	1	16.50	16.62	16.57	0	
			1	13	16.53	16.43	16.55	0	
			1	23	16.31	16.52	16.46	0	
			12	0	16.51	16.63	16.61	0	
			12	7	16.57	16.57	16.61	0	
			12	13	16.53	16.52	16.49	0	
			25	0	16.41	16.58	16.47	0	
		16QAM	1	1	16.74	16.68	16.72	0	
		64QAM	1	1	16.38	16.55	16.48	0	
		256QAM	1	1	16.26	16.50	16.40	0	
		CP-OFDM	QPSK	1	1	16.48	16.58	16.53	0

10.6.2 NR n12 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					141 500		
					707.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.62	0	
			1	40	16.62	0	
			1	77	16.66	0	
			36	0	16.67	0	
			36	22	16.74	0	
			36	43	16.65	0	
			75	0	16.68	0	
		QPSK	1	1	16.78	0	
			1	40	16.65	0	
			1	77	16.63	0	
			36	0	16.71	0	
			36	22	16.65	0	
			36	43	16.63	0	
			75	0	16.70	0	
	16QAM	1	1	16.83	0		
	64QAM	1	1	16.65	0		
256QAM	1	1	16.52	0			
CP-OFDM	QPSK	1	1	16.74	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					141 500		
					707.5 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.72	0	
			1	26	16.72	0	
			1	50	16.67	0	
			25	0	16.87	0	
			25	14	16.74	0	
			25	27	16.69	0	
			50	0	16.83	0	
		QPSK	1	1	16.89	0	
			1	26	16.95	0	
			1	50	16.74	0	
			25	0	16.83	0	
			25	14	16.68	0	
			25	27	16.65	0	
			50	0	16.83	0	
	16QAM	1	1	16.94	0		
	64QAM	1	1	16.87	0		
256QAM	1	1	16.50	0			
CP-OFDM	QPSK	1	1	16.86	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					140 300	141 500	142 700	
					701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	16.85	16.82	16.91	0
			1	13	16.57	16.71	16.65	0
			1	23	16.63	16.68	16.63	0
			12	0	16.76	16.78	16.76	0
			12	7	16.68	16.75	16.66	0
			12	13	16.76	16.66	16.62	0
			25	0	16.75	16.78	16.76	0
		QPSK	1	1	16.95	17.00	16.89	0
			1	13	16.74	16.73	16.73	0
			1	23	16.62	16.63	16.61	0
			12	0	16.67	16.79	16.77	0
			12	7	16.88	16.76	16.79	0
			12	13	16.78	16.61	16.73	0
		25	0	16.74	16.75	16.77	0	
		16QAM	1	1	16.91	17.02	16.92	0
		64QAM	1	1	16.87	16.89	16.97	0
		256QAM	1	1	16.68	16.57	16.46	0
	CP-OFDM	QPSK	1	1	16.87	17.00	16.85	0

10.6.3 NR n25 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					372 000	376 500	381 000	
					1 860.0 MHz	1 882.5 MHz	1 905 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.57	13.51	13.67	0
			1	53	13.51	13.69	13.74	0
			1	104	13.56	13.63	13.66	0
			50	0	13.64	13.62	13.78	0
			50	28	13.51	13.59	13.73	0
			50	56	13.46	13.57	13.68	0
			100	0	13.60	13.55	13.70	0
		QPSK	1	1	13.56	13.58	13.73	0
			1	53	13.49	13.58	13.66	0
			1	104	13.59	13.62	13.75	0
			50	0	13.53	13.59	13.73	0
			50	28	13.69	13.62	13.79	0
			50	56	13.51	13.59	13.67	0
			100	0	13.56	13.63	13.74	0
		16QAM	1	1	13.69	13.59	13.69	0
		64QAM	1	1	13.63	13.50	13.82	0
		256QAM	1	1	13.59	13.47	13.79	0
CP-OFDM	QPSK	1	1	13.66	13.54	13.75	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					371 500	376 500	381 500	
					1 857.5 MHz	1 882.5 MHz	1 907.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.71	13.64	13.80	0
			1	40	13.49	13.61	13.78	0
			1	77	13.65	13.68	13.76	0
			36	0	13.79	13.75	13.97	0
			36	22	13.69	13.73	13.86	0
			36	43	13.49	13.67	13.84	0
			75	0	13.80	13.68	13.87	0
		QPSK	1	1	13.71	13.75	13.85	0
			1	40	13.73	13.70	13.84	0
			1	77	13.72	13.77	13.83	0
			36	0	13.73	13.70	13.91	0
			36	22	13.67	13.71	13.87	0
			36	43	13.57	13.67	13.73	0
			75	0	13.74	13.76	13.81	0
		16QAM	1	1	13.82	13.76	13.83	0
		64QAM	1	1	13.81	13.63	13.87	0
		256QAM	1	1	13.63	13.55	13.82	0
CP-OFDM	QPSK	1	1	13.86	13.78	14.03	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					371 000	376 500	382 000	
					1 855.0 MHz	1 882.5 MHz	1 910 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.89	13.77	14.01	0
			1	26	13.58	13.76	13.96	0
			1	50	13.62	13.70	13.68	0
			25	0	13.71	13.67	13.86	0
			25	14	13.63	13.74	13.92	0
			25	27	13.58	13.68	13.76	0
			50	0	13.79	13.73	13.96	0
		QPSK	1	1	13.68	13.71	13.78	0
			1	26	13.82	13.81	13.94	0
			1	50	13.52	13.67	13.77	0
			25	0	13.80	13.68	13.82	0
			25	14	13.66	13.74	13.86	0
			25	27	13.66	13.70	13.80	0
			50	0	13.64	13.73	13.73	0
		16QAM	1	1	13.87	13.80	13.93	0
		64QAM	1	1	13.99	13.86	14.21	0
		256QAM	1	1	13.78	13.71	14.00	0
		CP-OFDM	QPSK	1	1	13.86	13.74	13.93

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					370 500	376 500	382 500	
					1 852.5 MHz	1 882.5 MHz	1 912.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.84	13.74	13.94	0
			1	13	13.47	13.61	13.80	0
			1	23	13.64	13.73	13.79	0
			12	0	13.69	13.70	13.86	0
			12	7	13.67	13.75	13.91	0
			12	13	13.64	13.74	13.81	0
			25	0	13.67	13.68	13.92	0
		QPSK	1	1	13.68	13.69	13.82	0
			1	13	13.61	13.68	13.80	0
			1	23	13.66	13.74	13.88	0
			12	0	13.78	13.73	13.95	0
			12	7	13.66	13.72	13.86	0
			12	13	13.70	13.73	13.77	0
			25	0	13.65	13.75	13.79	0
		16QAM	1	1	13.87	13.81	13.89	0
		64QAM	1	1	13.86	13.73	14.06	0
		256QAM	1	1	13.76	13.67	13.99	0
		CP-OFDM	QPSK	1	1	13.86	13.76	14.03

10.6.4 NR n30 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					462 000		
					2 310.0 MHz		
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.65	0	
			1	26	12.75	0	
			1	50	12.69	0	
			25	0	12.68	0	
			25	14	12.67	0	
			25	27	12.64	0	
		50	0	12.66	0		
		QPSK	1	1	12.65	0	
			1	26	12.76	0	
			1	50	12.70	0	
			25	0	12.66	0	
			25	14	12.73	0	
			25	27	12.70	0	
		50	0	12.70	0		
		16QAM	1	1	12.81	0	
64QAM	1	1	12.70	0			
256QAM	1	1	12.67	0			
CP-OFDM	QPSK	1	1	12.72	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					461 500	462 000	462 500	
					2 307.5 MHz	2 310.0 MHz	2 312.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	12.39	12.66	12.65	0
			1	13	12.42	12.53	12.54	0
			1	23	12.52	12.69	12.64	0
			12	0	12.47	12.66	12.69	0
			12	7	12.48	12.70	12.62	0
			12	13	12.46	12.68	12.67	0
		25	0	12.53	12.63	12.65	0	
		QPSK	1	1	12.44	12.63	12.62	0
			1	13	12.39	12.66	12.57	0
			1	23	12.50	12.64	12.68	0
			12	0	12.44	12.64	12.62	0
			12	7	12.52	12.67	12.63	0
			12	13	12.49	12.66	12.61	0
		25	0	12.44	12.70	12.67	0	
		16QAM	1	1	12.46	12.73	12.62	0
		64QAM	1	1	12.59	12.65	12.65	0
		256QAM	1	1	12.63	12.45	12.65	0
		CP-OFDM	QPSK	1	1	12.45	12.63	12.68

10.6.5 NR n41 (SA) (Power Class 2)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					518 598		
					2 592.99 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.58	0	
			1	137	11.45	0	
			1	271	11.48	0	
			135	0	11.66	0	
			135	69	11.42	0	
			135	138	11.51	0	
		270	0	11.39	0		
		QPSK	1	1	11.59	0	
			1	137	11.60	0	
			1	271	11.47	0	
			135	0	11.68	0	
			135	69	11.69	0	
			135	138	11.51	0	
		270	0	11.38	0		
		16QAM	1	1	11.58	0	
	64QAM	1	1	11.53	0		
256QAM	1	1	11.52	0			
CP-OFDM	QPSK	1	1	11.54	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					508 200	528 996	
					2 541.00 MHz	2 644.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.33	11.26	0
			1	123	11.23	11.13	0
			1	243	11.23	11.12	0
			120	0	11.46	11.22	0
			120	63	11.20	10.92	0
			120	125	11.21	11.17	0
		243	0	11.29	10.97	0	
		QPSK	1	1	11.42	11.27	0
			1	123	11.16	11.05	0
			1	243	11.36	11.17	0
			120	0	10.89	11.14	0
			120	63	11.06	10.85	0
			120	125	10.70	11.11	0
		243	0	10.72	10.97	0	
		16QAM	1	1	11.46	11.50	0
	64QAM	1	1	11.54	11.54	0	
256QAM	1	1	11.35	11.49	0		
CP-OFDM	QPSK	1	1	11.59	11.59	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					507 204	529 998	
					2 536.02 MHz	2 649.99 MHz	
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.41	11.04	0
			1	109	11.24	10.82	0
			1	215	11.27	10.84	0
			108	0	11.36	11.04	0
			108	55	11.09	10.70	0
			108	109	11.24	10.93	0
			216	0	11.10	10.76	0
		QPSK	1	1	11.33	11.14	0
			1	109	11.31	10.85	0
			1	215	11.31	10.88	0
			108	0	10.82	11.09	0
			108	55	11.09	10.72	0
			108	109	10.55	10.84	0
			216	0	10.52	10.85	0
		16QAM	1	1	11.57	11.23	0
		64QAM	1	1	11.46	11.21	0
		256QAM	1	1	11.28	11.50	0
CP-OFDM	QPSK	1	1	11.49	11.37	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					506 202	531 000	
					2 531.01 MHz	2 655.00 MHz	
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.37	11.16	0
			1	95	11.08	11.05	0
			1	188	11.20	11.27	0
			90	0	11.43	11.42	0
			90	50	11.12	10.92	0
			90	99	11.28	11.24	0
			180	0	11.01	11.16	0
		QPSK	1	1	11.41	11.17	0
			1	95	11.01	11.10	0
			1	188	11.30	11.37	0
			90	0	10.70	11.43	0
			90	50	11.05	10.97	0
			90	99	10.62	11.33	0
			180	0	10.47	11.19	0
		16QAM	1	1	11.45	11.46	0
		64QAM	1	1	11.61	11.41	0
		256QAM	1	1	11.40	11.45	0
CP-OFDM	QPSK	1	1	11.59	11.45	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					505 200	518 598	531 996	
					2 526.00 MHz	2 592.99 MHz	2 659.98 MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.41	11.50	11.36	0
			1	81	11.13	11.27	10.91	0
			1	160	11.33	11.54	11.11	0
			81	0	11.31	11.38	11.04	0
			81	41	10.98	11.08	10.70	0
			81	81	11.19	11.44	10.93	0
		162	0	11.02	11.21	10.80	0	
		QPSK	1	1	11.50	11.60	11.43	0
			1	81	11.20	11.25	10.83	0
			1	160	11.32	11.58	11.21	0
			81	0	10.74	11.48	11.02	0
			81	41	10.90	11.14	10.82	0
			81	81	11.17	11.49	10.99	0
		162	0	11.00	11.26	10.84	0	
		16QAM	1	1	11.39	11.41	11.48	0
		64QAM	1	1	11.48	11.47	11.58	0
256QAM	1	1	11.30	11.26	11.39	0		
CP-OFDM	QPSK	1	1	11.38	11.46	11.23	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					504 204	518 598	532 998	
					2 521.02 MHz	2 592.99 MHz	2 664.99 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.29	11.49	11.21	0
			1	67	11.14	11.27	10.91	0
			1	131	11.31	11.51	11.09	0
			64	0	11.36	11.49	11.15	0
			64	35	11.05	11.19	10.78	0
			64	69	11.24	11.45	10.99	0
		128	0	11.04	11.14	10.81	0	
		QPSK	1	1	11.38	11.37	11.15	0
			1	67	11.10	11.20	10.87	0
			1	131	11.39	11.45	11.06	0
			64	0	11.28	11.43	11.12	0
			64	35	10.99	11.30	10.81	0
			64	69	11.18	11.46	11.04	0
		128	0	11.01	11.01	10.78	0	
		16QAM	1	1	11.34	11.46	11.49	0
		64QAM	1	1	11.53	11.58	11.62	0
256QAM	1	1	11.26	11.15	11.12	0		
CP-OFDM	QPSK	1	1	11.56	11.44	11.48	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					503 202	513 468	523 734	534 000	
					2 516.01 MHz	2 567.34 MHz	2 618.67 MHz	2 670.00 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.28	11.36	11.29	11.22	0
			1	53	11.15	11.10	11.29	10.99	0
			1	104	11.38	11.32	11.42	11.24	0
			50	0	11.33	11.34	11.32	11.22	0
			50	28	11.07	11.05	11.17	11.05	0
			50	56	11.22	11.06	11.37	11.13	0
			100	0	11.07	11.01	11.10	10.94	0
		QPSK	1	1	11.40	11.31	11.25	11.14	0
			1	53	11.11	11.15	11.35	11.09	0
			1	104	11.42	11.41	11.42	11.17	0
			50	0	11.22	11.25	11.24	11.34	0
			50	28	10.94	10.98	11.03	11.07	0
			50	56	11.20	11.11	11.32	11.16	0
			100	0	11.02	10.91	11.16	10.97	0
		16QAM	1	1	11.38	11.36	11.55	11.35	0
		64QAM	1	1	11.52	11.55	11.43	11.48	0
		256QAM	1	1	11.26	11.37	11.37	11.18	0
CP-OFDM	QPSK	1	1	11.51	11.59	11.18	11.62	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					502 200	510 402	518 598	526 800	534 996	
					2 511.00 MHz	2 552.01 MHz	2 592.99 MHz	2 634.00 MHz	2 674.98 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.24	11.52	11.15	11.14	11.06	0
			1	39	10.92	11.13	10.88	10.75	10.98	0
			1	76	11.11	11.30	11.01	11.01	11.28	0
			36	0	11.12	11.25	11.13	10.95	11.19	0
			36	21	10.88	11.03	10.79	10.73	10.98	0
			36	42	11.00	11.11	11.00	10.82	11.21	0
			75	0	10.96	11.04	10.82	10.76	10.92	0
		QPSK	1	1	11.32	11.47	11.17	11.23	11.05	0
			1	39	10.95	11.10	10.86	10.80	10.96	0
			1	76	11.15	11.29	11.13	10.96	11.23	0
			36	0	11.08	11.18	11.09	11.02	11.34	0
			36	21	10.95	10.93	10.87	10.78	10.96	0
			36	42	10.93	11.21	11.07	10.78	11.17	0
			75	0	10.96	11.09	10.90	10.71	10.97	0
		16QAM	1	1	11.51	11.47	11.69	11.47	11.64	0
		64QAM	1	1	11.46	11.55	11.44	11.31	11.34	0
		256QAM	1	1	11.34	11.29	11.24	11.34	11.34	0
CP-OFDM	QPSK	1	1	11.58	11.47	11.67	11.66	11.29	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					501 204	509 898	518 598	527 298	535 998	
					2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.39	11.51	11.26	11.22	11.14	0
			1	26	11.18	11.38	11.20	11.02	11.05	0
			1	49	11.24	11.41	11.20	10.99	11.26	0
			25	0	11.30	11.51	11.20	11.06	11.12	0
			25	13	10.99	11.11	10.80	10.71	11.08	0
			25	26	11.23	11.42	11.16	11.11	11.13	0
		50	0	10.99	11.12	10.98	10.83	10.88	0	
		QPSK	1	1	11.40	11.56	11.21	11.35	11.22	0
			1	26	11.23	11.41	11.30	11.08	11.11	0
			1	49	11.22	11.42	11.20	11.05	11.19	0
			25	0	11.29	11.51	11.16	11.12	11.08	0
			25	13	10.90	11.20	10.82	10.74	11.06	0
			25	26	11.31	11.33	11.05	11.14	11.23	0
		50	0	11.00	11.08	11.13	10.88	10.94	0	
		16QAM	1	1	11.38	11.30	11.32	11.35	11.41	0
		64QAM	1	1	11.51	11.47	11.37	11.63	11.47	0
		256QAM	1	1	11.26	11.22	11.26	11.30	11.28	0
		CP-OFDM	QPSK	1	1	11.50	11.59	11.53	11.63	11.49

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 700	509 652	518 598	527 550	536 496	
					2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.42	11.58	11.40	11.24	11.20	0
			1	19	11.12	11.32	11.07	10.87	11.10	0
			1	36	11.28	11.58	11.23	11.08	11.22	0
			18	0	11.51	11.67	11.34	11.24	11.32	0
			18	10	11.06	11.26	10.99	10.78	11.22	0
			18	20	11.25	11.34	11.12	11.00	11.24	0
		36	0	11.19	11.21	11.09	10.96	11.09	0	
		QPSK	1	1	11.37	11.64	11.41	11.17	11.20	0
			1	19	11.08	11.36	11.17	10.97	11.01	0
			1	36	11.28	11.52	11.15	11.19	11.20	0
			18	0	11.41	11.71	11.41	11.32	11.38	0
			18	10	10.99	11.20	11.00	10.83	11.28	0
			18	20	11.21	11.35	11.10	11.08	11.31	0
		36	0	11.10	11.24	11.05	10.93	11.12	0	
		16QAM	1	1	11.30	11.21	11.31	11.43	11.53	0
		64QAM	1	1	11.34	11.35	11.44	11.31	11.23	0
		256QAM	1	1	11.26	11.33	11.28	11.31	11.49	0
		CP-OFDM	QPSK	1	1	11.37	11.43	11.48	11.43	11.36

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 202	509 400	518 598	527 802	537 000	
					2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.44	11.53	11.47	11.27	11.16	0
			1	12	11.27	11.33	11.28	11.05	10.89	0
			1	22	11.53	11.64	11.42	11.26	11.16	0
			12	0	11.51	11.53	11.36	11.34	11.14	0
			12	6	11.31	11.37	11.25	11.05	11.02	0
			12	12	11.45	11.61	11.44	11.20	11.11	0
		24	0	11.26	11.42	11.28	11.11	11.03	0	
		QPSK	1	1	11.50	11.63	11.45	11.17	11.05	0
			1	12	11.31	11.33	11.27	11.13	10.94	0
			1	22	11.45	11.65	11.33	11.35	11.08	0
			12	0	11.57	11.55	11.45	11.40	11.21	0
			12	6	11.22	11.33	11.24	11.10	11.09	0
			12	12	11.36	11.71	11.46	11.33	11.10	0
		24	0	11.20	11.35	11.22	10.99	11.00	0	
		16QAM	1	1	11.53	11.62	11.43	11.45	11.46	0
		64QAM	1	1	11.38	11.32	11.30	11.44	11.33	0
		256QAM	1	1	11.39	11.34	11.46	11.48	11.39	0
		CP-OFDM	QPSK	1	1	11.37	11.19	11.25	11.37	11.21



10.6.6 NR n41 (SA) (Power Class 3)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					518 598		
					2 592.99 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.52	0	
			1	137	11.43	0	
			1	271	11.45	0	
			135	0	11.63	0	
			135	69	11.40	0	
			135	138	11.50	0	
		270	0	11.42	0		
		QPSK	1	1	11.54	0	
			1	137	11.41	0	
			1	271	11.43	0	
			135	0	11.62	0	
			135	69	11.41	0	
			135	138	11.48	0	
		270	0	11.39	0		
		16QAM	1	1	11.52	0	
	64QAM	1	1	11.50	0		
256QAM	1	1	11.51	0			
CP-OFDM	QPSK	1	1	11.50	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					508 200	528 996	
					2 541.00 MHz	2 644.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.26	11.15	0
			1	123	11.61	11.63	0
			1	243	11.17	11.14	0
			120	0	11.21	11.09	0
			120	63	11.54	11.37	0
			120	125	11.62	11.53	0
		243	0	11.46	11.41	0	
		QPSK	1	1	11.34	11.11	0
			1	123	11.68	11.59	0
			1	243	11.08	11.11	0
			120	0	11.28	11.06	0
			120	63	11.63	11.41	0
			120	125	11.60	11.54	0
		243	0	11.56	11.49	0	
		16QAM	1	1	11.51	11.52	0
	64QAM	1	1	11.31	11.26	0	
256QAM	1	1	11.30	11.22	0		
CP-OFDM	QPSK	1	1	11.41	11.35	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					507 204	529 998	
					2 536.02 MHz	2 649.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.25	11.15	0
			1	109	11.52	11.43	0
			1	215	11.09	10.86	0
			108	0	11.09	11.11	0
			108	55	11.45	11.25	0
			108	109	11.37	11.36	0
			216	0	11.42	11.21	0
		QPSK	1	1	11.23	11.07	0
			1	109	11.51	11.52	0
			1	215	11.13	10.79	0
			108	0	11.19	11.08	0
			108	55	11.30	11.28	0
			108	109	11.26	11.32	0
		16QAM	216	0	11.32	11.20	0
			1	1	11.26	11.53	0
			1	1	11.42	11.46	0
			1	1	11.25	11.25	0
CP-OFDM	QPSK	1	1	11.44	11.48	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					506 202	531 000	
					2 531.01 MHz	2 655.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.53	11.10	0
			1	95	11.74	11.57	0
			1	188	11.26	11.01	0
			90	0	11.38	11.09	0
			90	50	11.73	11.44	0
			90	99	10.81	11.38	0
			180	0	11.56	11.35	0
		QPSK	1	1	11.51	11.09	0
			1	95	11.67	11.52	0
			1	188	11.33	11.06	0
			90	0	11.29	11.11	0
			90	50	11.74	11.42	0
			90	99	11.73	11.39	0
		16QAM	180	0	11.61	11.44	0
			1	1	11.36	11.39	0
			1	1	11.28	11.28	0
			1	1	11.24	11.40	0
CP-OFDM	QPSK	1	1	11.30	11.25	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					505 200	518 598	531 996	
					2 526.00 MHz	2 592.99 MHz	2 659.98 MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.29	11.37	11.20	0
			1	81	11.56	11.77	11.46	0
			1	160	10.96	11.23	10.94	0
			81	0	11.18	11.38	11.10	0
			81	41	11.47	11.61	11.36	0
			81	81	11.44	11.56	11.36	0
		162	0	11.49	11.55	11.48	0	
		QPSK	1	1	11.24	11.44	11.23	0
			1	81	11.63	11.67	11.39	0
			1	160	10.98	11.14	10.98	0
			81	0	11.20	11.40	11.10	0
			81	41	11.56	11.62	11.27	0
			81	81	11.42	11.53	11.38	0
		162	0	11.47	11.54	11.40	0	
		16QAM	1	1	11.24	11.38	11.29	0
		64QAM	1	1	11.28	11.37	11.14	0
		256QAM	1	1	11.15	11.19	11.05	0
CP-OFDM	QPSK	1	1	11.46	11.48	11.48	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					504 204	518 598	532 998	
					2 521.02 MHz	2 592.99 MHz	2 664.99 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.24	11.42	11.14	0
			1	67	11.56	10.78	11.55	0
			1	131	11.07	11.12	11.02	0
			64	0	10.99	11.22	10.81	0
			64	35	11.54	11.70	11.43	0
			64	69	11.34	11.55	11.32	0
			128	0	11.39	11.69	11.32	0
		QPSK	1	1	11.24	11.43	11.07	0
			1	67	11.57	10.77	11.53	0
			1	131	11.01	11.08	11.03	0
			64	0	10.92	11.09	10.91	0
			64	35	11.55	11.65	11.54	0
			64	69	11.35	11.58	11.32	0
		128	0	11.43	11.65	11.34	0	
		16QAM	1	1	11.43	11.35	11.57	0
		64QAM	1	1	11.16	11.31	11.29	0
		256QAM	1	1	11.21	11.12	11.11	0
CP-OFDM	QPSK	1	1	11.37	11.26	11.45	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					503 202	513 468	523 734	534 000	
					2 516.01 MHz	2 567.34 MHz	2 618.67 MHz	2 670.00 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.36	11.56	11.22	11.02	0
			1	53	11.63	10.91	11.51	11.38	0
			1	104	11.13	11.19	11.10	10.75	0
			50	0	11.34	11.49	11.34	11.05	0
			50	28	11.58	11.77	11.46	11.18	0
			50	56	11.71	11.64	11.58	11.42	0
		100	0	11.61	10.84	11.53	11.19	0	
		QPSK	1	1	11.25	11.61	11.35	11.07	0
			1	53	11.62	10.90	11.61	11.50	0
			1	104	11.19	11.34	11.03	10.71	0
			50	0	11.37	11.50	11.35	10.99	0
			50	28	11.60	10.75	11.48	11.15	0
			50	56	11.74	11.63	11.50	11.50	0
		100	0	11.66	11.75	11.55	11.15	0	
		16QAM	1	1	11.39	11.56	11.37	11.33	0
		64QAM	1	1	11.29	11.14	11.32	11.21	0
		256QAM	1	1	11.29	11.23	11.23	11.43	0
		CP-OFDM	QPSK	1	1	11.42	11.58	11.54	11.53

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					502 200	510 402	518 598	526 800	534 996	
					2 511.00 MHz	2 552.01 MHz	2 592.99 MHz	2 634.00 MHz	2 674.98 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.24	11.48	11.31	11.10	10.99	0
			1	39	11.45	11.57	11.33	11.19	11.13	0
			1	76	11.04	11.22	10.97	10.77	10.62	0
			36	0	11.16	11.30	11.01	10.95	10.83	0
			36	21	11.48	11.59	11.45	11.30	11.15	0
			36	42	11.53	11.70	11.46	11.42	11.24	0
			75	0	11.34	11.47	11.16	11.09	10.93	0
		QPSK	1	1	11.20	11.46	11.24	11.18	10.94	0
			1	39	11.49	11.57	11.38	11.26	11.15	0
			1	76	11.00	11.19	11.00	10.82	10.59	0
			36	0	11.19	11.29	11.02	11.05	10.87	0
			36	21	11.48	11.62	11.39	11.37	11.18	0
			36	42	11.63	11.70	11.37	11.45	11.19	0
			75	0	11.37	11.45	11.29	11.15	10.96	0
		16QAM	1	1	11.46	11.35	11.59	11.39	11.62	0
		64QAM	1	1	11.37	11.33	11.47	11.37	11.52	0
		256QAM	1	1	11.27	11.10	11.17	11.12	11.15	0
		CP-OFDM	QPSK	1	1	11.25	11.16	11.16	11.17	11.38

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					501 204	509 898	518 598	527 298	535 998	
					2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz	
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.38	11.49	11.27	11.15	11.07	0
			1	26	11.56	11.74	11.48	11.24	11.15	0
			1	49	10.98	11.22	10.93	10.74	10.68	0
			25	0	11.09	11.22	10.95	10.99	10.73	0
			25	13	11.60	11.72	11.46	11.35	11.24	0
			25	26	11.53	11.68	11.34	11.28	11.26	0
			50	0	11.50	11.72	11.33	11.27	11.26	0
		QPSK	1	1	11.33	11.52	11.17	11.06	11.18	0
			1	26	11.48	10.84	11.45	11.25	11.26	0
			1	49	10.95	11.08	10.78	10.69	10.77	0
			25	0	11.07	11.29	10.90	10.91	10.74	0
			25	13	11.49	10.78	11.53	11.29	11.35	0
			25	26	11.54	10.75	11.44	11.37	11.22	0
			50	0	11.48	11.64	11.42	11.27	11.23	0
		16QAM	1	1	11.27	11.39	11.40	11.16	11.14	0
		64QAM	1	1	11.31	11.26	11.22	11.20	11.39	0
		256QAM	1	1	11.10	11.23	11.17	11.13	11.02	0
		CP-OFDM	QPSK	1	1	11.38	11.36	11.40	11.35	11.22

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 700	509 652	518 598	527 550	536 496	
					2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz	
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.44	11.47	11.26	11.29	11.16	0
			1	19	11.75	10.88	11.71	11.54	11.51	0
			1	36	11.14	11.29	11.08	10.99	10.86	0
			18	0	11.23	11.46	11.23	10.99	10.89	0
			18	10	11.70	10.91	11.71	11.48	11.41	0
			18	20	11.64	11.71	11.55	11.51	11.23	0
			36	0	11.50	11.68	11.34	11.39	11.13	0
		QPSK	1	1	11.33	11.56	11.15	11.35	11.19	0
			1	19	10.89	10.86	10.76	11.52	11.44	0
			1	36	11.08	11.22	11.03	11.07	10.91	0
			18	0	11.13	11.38	11.33	11.03	10.87	0
			18	10	11.74	10.91	11.72	11.42	11.42	0
			18	20	11.55	11.69	11.64	11.51	11.24	0
			36	0	11.61	11.71	11.41	11.47	11.14	0
		16QAM	1	1	11.34	11.24	11.33	11.24	11.28	0
		64QAM	1	1	11.18	11.31	11.15	11.16	11.27	0
		256QAM	1	1	11.09	11.12	10.96	11.23	11.26	0
		CP-OFDM	QPSK	1	1	11.14	11.25	11.04	11.30	11.14

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MP R
					500 202	509 400	518 598	527 802	537 000	
					2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.30	11.51	11.24	11.11	11.07	0
			1	12	11.62	11.63	11.49	11.47	11.30	0
			1	22	11.06	11.19	10.87	10.80	10.67	0
			12	0	11.17	11.32	11.18	10.90	10.80	0
			12	6	11.49	11.71	11.39	11.32	11.20	0
			12	12	11.64	10.77	11.59	11.42	11.32	0
			24	0	11.40	11.44	11.32	11.16	11.15	0
		QPSK	1	1	11.29	11.42	11.18	11.19	11.05	0
			1	12	11.72	11.69	11.55	11.40	11.32	0
			1	22	11.13	11.22	10.84	10.94	10.60	0
			12	0	11.14	11.27	11.13	10.93	10.75	0
			12	6	11.41	11.69	11.54	11.48	11.25	0
			12	12	11.78	10.82	11.52	11.36	11.28	0
			24	0	11.34	11.50	11.35	11.11	11.05	0
	16QAM	1	1	11.25	11.18	11.19	11.34	11.17	0	
	64QAM	1	1	11.26	11.22	11.32	11.15	11.16	0	
	256QAM	1	1	11.27	11.24	11.29	11.22	11.19	0	
CP-OFDM	QPSK	1	1	11.18	11.26	11.22	11.06	11.03	0	

10.6.7 NR n48 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					638 000	641 666	645 332	
					3 570.00 MHz	3 624.99 MHz	3 679.98 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	8.78	8.44	8.59	0
			1	53	8.51	8.36	8.14	0
			1	104	8.32	8.31	8.16	0
			50	0	8.71	8.39	8.58	0
			50	28	8.48	8.35	8.08	0
			50	56	8.32	8.33	8.22	0
			100	0	8.50	8.35	8.04	0
		QPSK	1	1	8.69	8.42	8.87	0
			1	53	8.55	8.41	8.17	0
			1	104	8.34	8.34	8.16	0
			50	0	8.52	8.38	8.75	0
			50	28	8.49	8.36	8.08	0
			50	56	8.34	8.34	8.21	0
			100	0	8.51	8.36	8.03	0
		16QAM	1	1	8.77	8.42	8.60	0
		64QAM	1	1	8.66	8.35	8.51	0
		256QAM	1	1	8.71	8.37	8.55	0
CP-OFDM	QPSK	1	1	8.56	8.41	8.90	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637668	640334	643000	645666	
					3 565.02 MHz	3 605.01 MHz	3 645.00 MHz	3 684.99 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	8.71	8.63	8.42	8.59	0
			1	26	8.38	8.31	8.28	8.48	0
			1	49	8.20	8.19	7.97	8.15	0
			25	0	8.70	8.49	8.45	8.62	0
			25	13	8.40	8.33	8.09	8.31	0
			25	26	8.34	8.19	8.09	8.15	0
			50	0	8.43	8.35	8.15	8.43	0
		QPSK	1	1	8.71	8.54	8.33	8.51	0
			1	26	8.45	8.27	8.36	8.42	0
			1	49	8.17	8.11	7.96	8.17	0
			25	0	8.79	8.48	8.49	8.63	0
			25	13	8.32	8.40	8.14	8.28	0
			25	26	8.30	8.12	8.03	8.14	0
			50	0	8.49	8.38	8.11	8.41	0
		16QAM	1	1	8.83	7.92	8.71	8.62	0
		64QAM	1	1	7.21	7.19	7.07	7.25	0
		256QAM	1	1	8.68	8.71	8.81	8.79	0
CP-OFDM	QPSK	1	1	7.83	7.93	7.84	7.87	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 334	640 222	64 3112	646 000	
					3 560.01 MHz	3 603.33 MHz	3 646.68 MHz	3 690.00 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	8.72	8.54	8.35	8.66	0
			1	26	8.34	8.25	8.17	8.31	0
			1	49	8.05	8.08	7.97	8.10	0
			25	0	8.69	8.56	8.44	8.56	0
			25	13	8.25	8.22	8.12	8.22	0
			25	26	8.23	8.07	8.04	8.17	0
			50	0	8.29	8.17	8.05	8.37	0
		QPSK	1	1	8.68	8.49	8.30	8.60	0
			1	26	8.37	8.21	8.11	8.33	0
			1	49	8.14	8.09	8.06	8.08	0
			25	0	8.60	8.55	8.51	8.56	0
			25	13	8.31	8.25	8.09	8.26	0
			25	26	8.18	8.12	7.95	8.26	0
			50	0	8.33	8.19	8.11	8.33	0
		16QAM	1	1	8.77	8.76	8.81	8.90	0
		64QAM	1	1	7.06	7.19	7.28	7.18	0
		256QAM	1	1	8.53	8.71	8.64	8.67	0
CP-OFDM	QPSK	1	1	7.97	7.68	7.79	7.80	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 168	640 166	643 166	646 166	
					3 557.52 MHz	3 602.49 MHz	3 647.49 MHz	3 692.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	8.59	8.45	8.49	8.58	0
			1	19	8.29	8.23	8.04	8.18	0
			1	36	8.05	7.76	7.78	7.92	0
			18	0	8.62	8.53	8.39	8.61	0
			18	10	8.24	8.01	8.04	8.11	0
			18	20	8.16	7.94	7.85	8.10	0
			36	0	8.16	8.18	7.90	8.13	0
		QPSK	1	1	8.65	8.40	8.58	8.51	0
			1	19	8.35	8.30	8.13	8.20	0
			1	36	7.99	7.76	7.70	8.01	0
			18	0	8.70	8.55	8.40	8.67	0
			18	10	8.16	8.02	7.97	8.11	0
			18	20	8.25	8.00	7.79	8.09	0
			36	0	8.11	8.25	7.85	8.22	0
		16QAM	1	1	8.71	8.70	8.66	8.88	0
		64QAM	1	1	7.93	7.18	7.94	7.00	0
		256QAM	1	1	8.40	8.43	8.59	8.65	0
CP-OFDM	QPSK	1	1	8.04	7.89	8.06	8.02	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					637 000	640 110	643 222	646 332	
					3 555.00 MHz	3 601.65 MHz	3 648.33 MHz	3 694.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	8.69	8.60	8.42	8.58	0
			1	12	8.39	8.13	8.18	8.25	0
			1	22	8.14	7.97	7.87	7.93	0
			12	0	8.78	8.57	8.40	8.46	0
			12	6	8.36	8.22	8.12	8.14	0
			12	12	8.23	8.14	7.92	8.10	0
		24	0	8.29	8.00	7.98	8.03	0	
		QPSK	1	1	8.78	8.52	8.35	8.60	0
			1	12	8.39	8.20	8.17	8.27	0
			1	22	8.18	8.03	7.90	7.91	0
			12	0	8.82	8.64	8.48	8.47	0
			12	6	8.41	8.14	8.19	8.20	0
			12	12	8.19	8.14	7.88	8.01	0
		24	0	8.28	7.92	8.05	8.09	0	
		16QAM	1	1	8.83	8.83	8.69	8.82	0
		64QAM	1	1	7.93	7.05	7.06	7.87	0
		256QAM	1	1	8.30	8.49	8.41	8.25	0
		CP-OFDM	QPSK	1	1	8.01	7.93	8.14	8.17

10.6.8 NR n66 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.61	0	
			1	108	14.10	0	
			1	214	13.72	0	
			108	0	13.89	0	
			108	54	14.06	0	
			108	108	13.76	0	
		216	0	14.01	0		
		QPSK	1	1	13.58	0	
			1	108	14.13	0	
			1	214	13.72	0	
			108	0	13.89	0	
			108	54	14.08	0	
			108	108	13.75	0	
		216	0	14.02	0		
		16QAM	1	1	13.73	0	
64QAM	1	1	13.66	0			
256QAM	1	1	13.59	0			
CP-OFDM	QPSK	1	1	13.60	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.89	0	
			1	80	14.23	0	
			1	158	13.73	0	
			80	0	14.00	0	
			80	40	14.14	0	
			80	80	13.89	0	
		160	0	14.10	0		
		QPSK	1	1	13.90	0	
			1	80	14.23	0	
			1	158	13.38	0	
			80	0	14.04	0	
			80	40	14.12	0	
			80	80	13.95	0	
		160	0	14.15	0		
		16QAM	1	1	13.78	0	
64QAM	1	1	13.99	0			
256QAM	1	1	13.86	0			
CP-OFDM	QPSK	1	1	13.91	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					349 000		
					1 745.0 MHz		
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.89	0	
			1	67	14.00	0	
			1	131	13.77	0	
			64	0	14.06	0	
			64	35	14.05	0	
			64	69	13.94	0	
			128	0	14.11	0	
		QPSK	1	1	13.96	0	
			1	67	14.05	0	
			1	131	13.74	0	
			64	0	14.05	0	
			64	35	14.12	0	
			64	69	13.94	0	
			128	0	14.12	0	
		16QAM	1	1	14.09	0	
		64QAM	1	1	13.93	0	
256QAM	1	1	13.88	0			
CP-OFDM	QPSK	1	1	13.99	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					344 000	349 000	354 000	
					1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	13.94	13.99	14.03	0
			1	53	13.99	14.22	13.81	0
			1	104	13.93	13.84	13.53	0
			50	0	13.82	14.09	14.00	0
			50	28	13.91	14.16	13.75	0
			50	56	14.23	13.99	13.98	0
			100	0	13.84	14.11	13.79	0
		QPSK	1	1	13.93	13.91	14.07	0
			1	53	13.82	14.11	13.67	0
			1	104	13.94	13.81	13.56	0
			50	0	13.95	14.17	14.08	0
			50	28	13.74	14.10	13.73	0
			50	56	14.26	14.05	13.95	0
			100	0	13.82	14.11	13.71	0
		16QAM	1	1	14.05	14.12	14.40	0
		64QAM	1	1	13.68	13.84	13.97	0
256QAM	1	1	13.74	13.81	13.87	0		
CP-OFDM	QPSK	1	1	14.13	14.05	14.15	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					343 500	349 000	354 500	
					1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	14.05	14.06	14.11	0
			1	40	13.87	14.04	13.64	0
			1	77	13.99	13.94	13.71	0
			36	0	14.00	14.17	14.08	0
			36	22	13.83	14.10	13.76	0
			36	43	14.34	14.04	14.02	0
			75	0	13.82	14.11	13.80	0
		QPSK	1	1	14.09	14.04	14.21	0
			1	40	13.72	14.00	13.59	0
			1	77	14.00	13.84	13.63	0
			36	0	13.88	14.10	14.04	0
			36	22	13.74	14.08	13.65	0
			36	43	14.32	14.03	13.98	0
			75	0	13.83	14.12	13.84	0
		16QAM	1	1	14.22	14.23	14.48	0
		64QAM	1	1	13.83	13.97	14.12	0
		256QAM	1	1	13.91	13.93	13.94	0
		CP-OFDM	QPSK	1	1	14.05	14.03	14.21

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					343 000	349 000	355 000	
					1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	14.17	14.18	14.18	0
			1	26	13.91	14.15	13.77	0
			1	50	14.13	13.98	13.81	0
			25	0	13.96	14.13	14.02	0
			25	14	13.87	14.12	13.71	0
			25	27	14.32	14.12	14.09	0
			50	0	13.75	14.08	13.76	0
		QPSK	1	1	14.21	14.09	14.29	0
			1	26	13.84	14.11	13.68	0
			1	50	14.16	14.00	13.75	0
			25	0	13.98	14.21	14.13	0
			25	14	13.82	14.11	13.73	0
			25	27	14.34	14.12	14.09	0
			50	0	13.81	14.09	13.70	0
		16QAM	1	1	14.15	14.14	14.42	0
		64QAM	1	1	13.97	14.17	14.27	0
		256QAM	1	1	14.02	14.04	14.08	0
		CP-OFDM	QPSK	1	1	14.20	14.19	14.32

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR	
					342 500	349 000	355 500		
					1 712.5 MHz	1 745.0 MHz	1 777.5 MHz		
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	14.13	14.19	14.25	0	
			1	13	13.88	14.10	13.61	0	
			1	23	14.16	14.05	13.89	0	
			12	0	13.87	14.09	14.01	0	
			12	7	13.79	14.06	13.65	0	
			12	13	14.35	14.05	14.00	0	
			25	0	13.76	14.12	13.77	0	
		QPSK	1	1	14.00	14.00	14.23	0	
			1	13	13.69	13.94	13.57	0	
			1	23	14.09	14.00	13.84	0	
			12	0	13.91	14.15	14.02	0	
			12	7	13.78	14.12	13.78	0	
			12	13	14.36	14.14	13.99	0	
			25	0	13.83	14.11	13.72	0	
		16QAM	1	1	14.05	14.11	14.38	0	
		64QAM	1	1	13.95	14.08	14.16	0	
		256QAM	1	1	13.98	14.10	14.07	0	
		CP-OFDM	QPSK	1	1	14.11	14.07	14.24	0



10.6.8 NR n71 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					136 100		
					680.5 MHz		
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.06	0	
			1	53	18.27	0	
			1	104	18.26	0	
			50	0	18.17	0	
			50	28	18.27	0	
			50	56	18.28	0	
		100	0	18.20	0		
		QPSK	1	1	18.22	0	
			1	53	18.45	0	
			1	104	18.24	0	
			50	0	18.15	0	
			50	28	18.41	0	
			50	56	18.23	0	
		100	0	18.32	0		
		16QAM	1	1	18.24	0	
64QAM	1	1	18.17	0			
256QAM	1	1	18.14	0			
CP-OFDM	QPSK	1	1	18.19	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					136 100		
					680.5 MHz		
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.17	0	
			1	40	18.12	0	
			1	77	18.29	0	
			36	0	18.27	0	
			36	22	18.29	0	
			36	43	18.36	0	
			75	0	18.29	0	
		QPSK	1	1	18.21	0	
			1	40	18.20	0	
			1	77	18.30	0	
			36	0	18.23	0	
			36	22	18.25	0	
			36	43	18.33	0	
		75	0	18.23	0		
		16QAM	1	1	18.36	0	
		64QAM	1	1	18.06	0	
		256QAM	1	1	18.22	0	
		CP-OFDM	QPSK	1	1	18.31	0

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					133 600	136 100	138 600	
					668.0 MHz	680.5 MHz	693.0 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.45	18.25	18.51	0
			1	26	18.39	18.42	18.39	0
			1	50	18.34	18.25	18.26	0
			25	0	18.35	18.23	18.34	0
			25	14	18.33	18.32	18.29	0
			25	27	18.39	18.29	18.34	0
			50	0	18.28	18.21	18.27	0
		QPSK	1	1	18.21	18.11	18.17	0
			1	26	18.15	18.18	18.18	0
			1	50	18.08	18.06	18.02	0
			25	0	18.21	18.16	18.18	0
			25	14	18.13	18.11	18.22	0
			25	27	18.07	18.08	18.07	0
			50	0	18.09	18.12	18.16	0
		16QAM	1	1	18.28	18.31	18.31	0
		64QAM	1	1	18.35	18.36	18.39	0
		256QAM	1	1	18.06	18.09	18.10	0
		CP-OFDM	QPSK	1	1	18.25	18.26	18.21

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					133 100	136 100	139 100	
					665.5 MHz	680.5 MHz	695.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.54	18.29	18.49	0
			1	13	18.33	18.21	18.31	0
			1	23	18.28	18.30	18.32	0
			12	0	18.33	18.28	18.30	0
			12	7	18.33	18.31	18.28	0
			12	13	18.39	18.20	18.29	0
			25	0	18.32	18.21	18.25	0
		QPSK	1	1	18.15	18.20	18.17	0
			1	13	18.15	18.24	18.19	0
			1	23	18.10	18.17	18.14	0
			12	0	18.18	18.23	18.18	0
			12	7	18.18	18.06	18.21	0
			12	13	18.14	18.20	18.11	0
			25	0	18.08	18.32	18.14	0
		16QAM	1	1	18.26	18.41	18.25	0
		64QAM	1	1	18.39	18.14	18.39	0
		256QAM	1	1	18.09	18.12	18.12	0
		CP-OFDM	QPSK	1	1	18.30	18.19	18.21

10.6.9 NR n77 (SA) (lower)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.58	0	
			1	137	11.51	0	
			1	271	11.71	0	
			135	0	11.66	0	
			135	69	11.52	0	
			135	138	11.68	0	
			270	0	11.47	0	
		QPSK	1	1	11.75	0	
			1	137	11.53	0	
			1	271	11.72	0	
			135	0	11.69	0	
			135	69	11.52	0	
			135	138	11.66	0	
			270	0	11.45	0	
	16QAM	1	1	11.55	0		
	64QAM	1	1	11.50	0		
256QAM	1	1	11.49	0			
CP-OFDM	QPSK	1	1	11.49	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.47	0	
			1	123	11.40	0	
			1	243	11.38	0	
			120	0	11.52	0	
			120	63	11.27	0	
			120	125	11.64	0	
			243	0	11.20	0	
		QPSK	1	1	11.72	0	
			1	123	11.25	0	
			1	243	11.41	0	
			120	0	11.63	0	
			120	63	11.36	0	
			120	125	11.32	0	
			243	0	11.28	0	
	16QAM	1	1	11.54	0		
	64QAM	1	1	11.37	0		
256QAM	1	1	11.58	0			
CP-OFDM	QPSK	1	1	11.66	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.42	0	
			1	109	11.25	0	
			1	215	11.42	0	
			108	0	11.61	0	
			108	55	11.28	0	
			108	109	11.37	0	
			216	0	11.33	0	
		QPSK	1	1	11.67	0	
			1	109	11.46	0	
			1	215	11.32	0	
			108	0	11.46	0	
			108	55	11.24	0	
			108	109	11.31	0	
		16QAM	216	0	11.22	0	
			1	1	11.70	0	
			1	1	11.42	0	
			1	1	11.42	0	
CP-OFDM	QPSK	1	1	11.73	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.62	0	
			1	95	11.49	0	
			1	187	11.58	0	
			90	0	11.63	0	
			90	50	11.45	0	
			90	99	11.51	0	
			180	0	11.20	0	
		QPSK	1	1	11.50	0	
			1	95	11.36	0	
			1	187	11.30	0	
			90	0	11.45	0	
			90	50	11.34	0	
			90	99	11.31	0	
		16QAM	180	0	11.14	0	
			1	1	11.71	0	
			1	1	11.63	0	
			1	1	11.63	0	
CP-OFDM	QPSK	1	1	11.65	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					633 334		
					3 500.01 MHz		
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.48	0	
			1	81	11.43	0	
			1	160	11.39	0	
			81	0	11.67	0	
			81	41	11.34	0	
			81	81	11.35	0	
		162	0	11.22	0		
		QPSK	1	1	11.58	0	
			1	81	11.33	0	
			1	160	11.44	0	
			81	0	11.49	0	
			81	41	11.28	0	
			81	81	11.34	0	
		162	0	11.21	0		
		16QAM	1	1	11.55	0	
		64QAM	1	1	11.51	0	
256QAM	1	1	11.45	0			
CP-OFDM	QPSK	1	1	11.40	0		

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR	
					631 668	635 000		
					3 475.02 MHz	3 525.00 MHz		
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.63	11.24	0	
			1	67	10.68	11.49	0	
			1	131	11.44	11.54	0	
			64	0	10.73	11.43	0	
			64	35	10.68	11.51	0	
			64	69	11.67	11.64	0	
			128	0	10.86	11.43	0	
		QPSK	1	1	10.71	11.27	0	
			1	67	10.76	11.61	0	
			1	131	11.50	11.65	0	
			64	0	10.87	11.55	0	
			64	35	10.71	11.71	0	
			64	69	11.54	11.56	0	
		128	0	10.71	11.59	0		
		16QAM	1	1	11.54	11.32	0	
		64QAM	1	1	11.54	11.36	0	
		256QAM	1	1	11.55	11.23	0	
		CP-OFDM	QPSK	1	1	11.71	11.41	0

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					631 334	635 332	
					3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.67	11.22	0
			1	53	10.83	11.51	0
			1	104	11.36	11.45	0
			50	0	10.69	11.39	0
			50	28	10.82	11.62	0
			50	56	11.40	11.52	0
			100	0	10.84	11.52	0
		QPSK	1	1	10.81	11.36	0
			1	53	10.76	11.54	0
			1	104	11.41	11.55	0
			50	0	10.79	11.43	0
			50	28	10.84	11.66	0
			50	56	11.61	11.52	0
			100	0	10.85	11.59	0
		16QAM	1	1	11.55	11.23	0
		64QAM	1	1	11.64	11.29	0
256QAM	1	1	11.46	11.21	0		
CP-OFDM	QPSK	1	1	11.55	11.40	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.74	11.54	11.18	0
			1	39	10.74	11.40	11.57	0
			1	76	11.39	11.36	11.64	0
			36	0	10.83	11.68	11.33	0
			36	21	10.60	11.38	11.58	0
			36	42	11.48	11.65	11.53	0
			75	0	10.81	11.26	11.50	0
		QPSK	1	1	10.80	11.57	11.26	0
			1	39	10.75	11.32	11.52	0
			1	76	11.34	11.33	11.70	0
			36	0	10.83	11.57	11.36	0
			36	21	10.70	11.18	11.57	0
			36	42	11.60	11.49	11.68	0
			75	0	10.66	11.15	11.40	0
		16QAM	1	1	11.59	11.62	11.34	0
		64QAM	1	1	11.54	11.68	11.25	0
256QAM	1	1	11.46	11.62	11.14	0		
CP-OFDM	QPSK	1	1	11.65	11.55	11.20	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 834	633 334	635 832	
					3 462.51 MHz	3 500.01 MHz	3 537.48 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.63	11.52	11.01	0
			1	33	10.65	11.35	11.31	0
			1	63	11.39	11.36	11.55	0
			32	0	10.65	11.58	11.29	0
			32	17	10.61	11.38	11.54	0
			32	33	11.45	11.54	11.56	0
		64	0	10.64	11.19	11.59	0	
		QPSK	1	1	10.87	11.73	11.26	0
			1	33	10.66	11.18	11.48	0
			1	63	11.47	11.26	11.53	0
			32	0	10.78	11.40	11.39	0
			32	17	10.72	11.26	11.46	0
			32	33	11.59	11.44	11.60	0
		64	0	10.69	11.22	11.53	0	
		16QAM	1	1	11.33	11.41	11.28	0
		64QAM	1	1	11.61	11.64	11.13	0
256QAM	1	1	11.38	11.58	11.15	0		
CP-OFDM	QPSK	1	1	11.49	11.56	11.21	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.66	11.53	11.23	0
			1	26	10.76	11.26	11.49	0
			1	49	11.44	11.38	11.64	0
			25	0	10.88	11.73	11.40	0
			25	13	10.65	11.29	11.59	0
			25	26	11.59	11.37	11.48	0
		50	0	10.69	11.36	11.38	0	
		QPSK	1	1	10.70	11.51	11.33	0
			1	26	10.64	11.46	11.57	0
			1	49	11.30	11.50	11.61	0
			25	0	10.79	11.53	11.41	0
			25	13	10.77	11.33	11.71	0
			25	26	11.58	11.49	11.64	0
		50	0	10.81	11.23	11.44	0	
		16QAM	1	1	11.54	11.54	11.31	0
		64QAM	1	1	11.60	11.61	11.36	0
256QAM	1	1	11.52	11.49	11.22	0		
CP-OFDM	QPSK	1	1	11.67	11.48	11.39	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 500	633 334	636 166	
					3 457.50 MHz	3 500.01 MHz	3 542.49 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.61	11.63	11.07	0
			1	19	10.59	11.32	11.56	0
			1	36	11.25	11.45	11.54	0
			18	0	10.89	11.56	11.45	0
			18	10	10.72	11.30	11.63	0
			18	20	11.54	11.43	11.60	0
		36	0	10.82	11.22	11.39	0	
		QPSK	1	1	10.65	11.74	11.33	0
			1	19	10.81	11.29	11.51	0
			1	36	11.38	11.21	11.55	0
			18	0	10.88	11.42	11.48	0
			18	10	10.69	11.24	11.47	0
			18	20	11.63	11.35	11.55	0
		36	0	10.79	11.32	11.48	0	
		16QAM	1	1	11.52	11.50	11.33	0
		64QAM	1	1	11.62	11.49	11.30	0
256QAM	1	1	11.47	11.61	11.26	0		
CP-OFDM	QPSK	1	1	11.58	11.43	11.29	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					630 334	633 334	636 322	
					3 455.01 MHz	3 500.01 MHz	3 544.98 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	10.66	11.49	11.26	0
			1	12	10.72	11.39	11.56	0
			1	22	11.35	11.60	11.49	0
			12	0	10.78	11.63	11.46	0
			12	6	10.76	11.33	11.57	0
			12	12	11.43	11.43	11.65	0
		24	0	10.83	11.36	11.46	0	
		QPSK	1	1	10.67	11.70	11.28	0
			1	12	10.91	11.42	11.50	0
			1	22	11.25	11.26	11.56	0
			12	0	10.69	11.43	11.42	0
			12	6	10.75	11.24	11.55	0
			12	12	11.54	11.41	11.52	0
		24	0	10.78	11.24	11.56	0	
		16QAM	1	1	11.45	11.44	11.27	0
		64QAM	1	1	11.42	11.39	11.09	0
256QAM	1	1	11.50	11.56	11.25	0		
CP-OFDM	QPSK	1	1	11.47	11.60	11.34	0	

10.6.10 NR n77 (SA) (upper)

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power		MPR
					650 000	662 000	
					3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.85	11.17	0
			1	137	11.57	11.64	0
			1	271	11.22	11.59	0
			135	0	11.65	11.56	0
			135	69	11.57	11.61	0
			135	138	11.38	11.88	0
		270	0	11.51	11.56	0	
		QPSK	1	1	11.89	11.12	0
			1	137	11.58	10.65	0
			1	271	11.23	10.57	0
			135	0	11.66	11.63	0
			135	69	11.58	11.62	0
			135	138	11.40	10.85	0
		270	0	11.52	11.57	0	
		16QAM	1	1	11.84	11.08	0
		64QAM	1	1	11.79	11.09	0
256QAM	1	1	11.79	11.14	0		
CP-OFDM	QPSK	1	1	11.82	11.12	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.65	11.53	11.27	0
			1	123	11.49	11.35	10.99	0
			1	243	11.11	10.93	10.51	0
			120	0	11.54	11.58	11.06	0
			120	63	11.40	11.51	10.97	0
			120	125	11.27	11.10	10.61	0
		243	0	11.44	11.39	10.73	0	
		QPSK	1	1	11.71	11.42	11.20	0
			1	123	11.41	11.37	11.02	0
			1	243	11.03	11.04	10.48	0
			120	0	11.44	11.47	11.07	0
			120	63	11.42	11.47	11.11	0
			120	125	11.12	11.25	10.66	0
		243	0	11.27	11.43	10.68	0	
		16QAM	1	1	11.50	11.38	11.66	0
		64QAM	1	1	11.46	11.37	11.66	0
256QAM	1	1	11.29	11.21	11.77	0		
CP-OFDM	QPSK	1	1	11.38	11.38	11.50	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power			MPR
					649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.68	11.51	11.32	0
			1	109	11.39	11.39	11.26	0
			1	215	10.97	10.92	10.81	0
			108	0	11.50	11.56	11.25	0
			108	55	11.53	11.45	11.29	0
			108	109	11.17	11.24	10.88	0
			216	0	11.28	11.54	11.07	0
		QPSK	1	1	11.64	11.50	11.37	0
			1	109	11.59	11.53	11.25	0
			1	215	10.96	11.05	10.81	0
			108	0	11.35	11.50	11.35	0
			108	55	11.58	11.50	11.30	0
			108	109	11.16	11.30	10.73	0
			216	0	11.09	11.34	10.90	0
		16QAM	1	1	10.88	11.33	11.78	0
		64QAM	1	1	11.66	11.41	11.66	0
		256QAM	1	1	11.70	11.22	11.56	0
CP-OFDM	QPSK	1	1	11.64	11.25	11.32	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					649 000	653 666	658 334	663 000	
					3 735.00 MHz	3 804.99 MHz	3 875.01 MHz	3945.00 MHz	
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	11.78	11.58	11.41	11.37	0
			1	95	11.43	11.30	11.19	10.88	0
			1	187	11.17	10.98	10.84	10.80	0
			90	0	11.58	11.37	11.19	11.14	0
			90	50	11.47	11.38	11.12	10.90	0
			90	99	11.48	11.08	10.93	10.93	0
			180	0	11.44	11.20	11.07	10.79	0
		QPSK	1	1	11.76	11.57	11.45	11.29	0
			1	95	11.40	11.41	11.23	11.06	0
			1	187	11.09	11.13	10.89	10.79	0
			90	0	11.70	11.47	11.20	11.04	0
			90	50	11.50	11.41	11.02	10.92	0
			90	99	11.39	11.13	10.93	11.07	0
			180	0	11.45	11.30	11.15	10.78	0
		16QAM	1	1	10.94	10.94	11.68	11.80	0
		64QAM	1	1	11.51	11.40	11.29	11.51	0
		256QAM	1	1	11.82	11.47	11.61	11.72	0
CP-OFDM	QPSK	1	1	11.48	11.22	11.47	11.32	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power				MPR
					648 668	653 556	658 444	663 332	
					3 730.02 MHz	3 803.34 MHz	3 876.66 MHz	3 949.98 MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.77	11.66	11.62	11.32	0
			1	81	11.45	11.37	11.28	11.08	0
			1	160	11.06	10.83	10.93	10.71	0
			81	0	11.47	11.21	11.32	10.81	0
			81	41	11.63	11.20	11.30	11.07	0
			81	81	11.35	11.23	11.17	10.70	0
			162	0	11.34	11.23	11.17	10.93	0
		QPSK	1	1	11.76	11.63	11.70	11.42	0
			1	81	11.46	11.27	11.21	11.08	0
			1	160	11.12	10.80	10.91	10.63	0
			81	0	11.43	11.24	11.31	10.80	0
			81	41	11.44	11.39	11.51	10.99	0
			81	81	11.27	11.13	11.16	10.67	0
			162	0	11.52	11.11	11.26	10.89	0
		16QAM	1	1	11.67	11.69	11.69	11.17	0
		64QAM	1	1	11.82	11.76	11.86	11.66	0
		256QAM	1	1	11.76	11.74	11.81	11.49	0
CP-OFDM	QPSK	1	1	11.68	11.56	11.72	11.69	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power					MPR
					648 334	652 166	656 000	659 834	663 666	
					3 725.01 MHz	3 782.49 MHz	3 840.00 MHz	3 897.51 MHz	3 954.99 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.77	11.75	11.47	11.58	11.38	0
			1	67	11.60	11.53	11.33	11.35	11.04	0
			1	131	11.20	11.24	10.97	11.16	10.70	0
			64	0	11.64	11.59	11.52	11.34	11.25	0
			64	35	11.60	11.38	11.34	11.31	10.94	0
			64	69	11.42	11.26	11.21	11.28	10.93	0
			128	0	11.53	11.52	11.41	11.48	11.04	0
		QPSK	1	1	11.92	11.62	11.46	11.53	11.37	0
			1	67	11.72	11.54	11.51	11.23	11.00	0
			1	131	11.24	11.09	10.96	11.08	10.61	0
			64	0	11.68	11.69	11.61	11.41	11.17	0
			64	35	11.66	11.49	11.39	11.38	11.00	0
			64	69	11.38	11.33	11.28	11.12	10.69	0
			128	0	11.48	11.55	11.38	11.33	11.10	0
		16QAM	1	1	11.42	11.49	11.48	11.50	11.44	0
		64QAM	1	1	11.47	11.32	11.35	11.59	11.44	0
		256QAM	1	1	11.40	11.35	11.24	11.27	11.44	0
CP-OFDM	QPSK	1	1	11.42	11.34	11.35	11.50	11.60	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					648 000	651 200	654 400	657 600	660 800	664 000	
					3 720.00 MHz	3 768.00 MHz	3 816.00 MHz	3 864.00 MHz	3 912.00 MHz	3 960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.72	11.57	11.36	11.44	11.39	11.21	0
			1	53	11.56	11.33	11.45	11.27	11.29	11.19	0
			1	104	11.08	10.88	10.88	10.77	10.94	10.50	0
			50	0	11.64	11.48	11.53	11.25	11.49	11.16	0
			50	28	11.33	11.27	11.18	11.02	11.25	10.92	0
			50	56	11.28	11.12	11.05	10.98	11.00	10.80	0
			100	0	11.39	11.30	11.27	11.20	11.23	10.98	0
		QPSK	1	1	11.66	11.68	11.41	11.30	11.53	11.25	0
			1	53	11.54	11.37	11.50	11.33	11.44	11.08	0
			1	104	11.12	10.90	10.93	10.60	10.85	10.56	0
			50	0	11.53	11.66	11.35	11.24	11.50	11.10	0
			50	28	11.35	11.15	11.08	11.11	11.19	10.88	0
			50	56	11.30	11.02	10.99	10.92	11.00	10.76	0
			100	0	11.46	11.29	11.11	11.17	11.16	10.83	0
	16QAM	1	1	11.50	11.28	11.33	11.61	11.38	11.44	0	
	64QAM	1	1	11.35	11.18	11.49	11.57	11.39	11.40	0	
256QAM	1	1	11.31	11.25	11.14	11.36	11.22	11.49	0		
CP-OFDM	QPSK	1	1	11.55	11.39	11.41	11.76	11.58	11.53	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 668	651 000	654 334	657 666	661 000	664 332	
					3 715.02 MHz	3 765.00 MHz	3 815.01 MHz	3 864.99 MHz	3 915.00 MHz	3 964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.68	11.62	11.29	11.26	11.44	11.21	0
			1	39	11.55	11.69	11.35	11.37	11.38	11.16	0
			1	76	11.23	11.09	11.04	10.80	10.93	10.66	0
			36	0	11.67	11.58	11.51	11.37	11.49	11.14	0
			36	21	11.37	11.32	11.22	11.10	11.19	10.93	0
			36	42	11.38	11.29	11.14	11.10	11.04	10.92	0
			75	0	11.49	11.60	11.28	11.24	11.36	10.88	0
		QPSK	1	1	11.57	11.61	11.47	11.31	11.46	11.05	0
			1	39	11.68	11.68	11.43	11.37	11.33	11.12	0
			1	76	11.07	11.21	11.09	10.87	10.90	10.69	0
			36	0	11.68	11.67	11.50	11.21	11.47	11.17	0
			36	21	11.57	11.37	11.29	11.07	11.35	10.88	0
			36	42	11.33	11.14	11.21	10.99	11.15	10.75	0
			75	0	11.44	11.68	11.41	11.23	11.42	10.94	0
	16QAM	1	1	11.34	11.46	11.31	11.33	11.34	11.55	0	
	64QAM	1	1	11.56	11.42	11.35	11.61	11.59	11.30	0	
256QAM	1	1	11.27	11.30	11.19	11.44	11.29	11.14	0		
CP-OFDM	QPSK	1	1	11.43	11.62	11.44	11.44	11.40	11.42	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 500	650 900	654 300	657 700	661 100	664 500	
					3 712.50 MHz	3 763.50 MHz	3 814.50 MHz	3 865.50 MHz	3 916.50 MHz	3 967.50 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.64	11.49	11.37	11.19	11.43	11.11	0
			1	33	11.57	11.60	11.24	11.34	11.41	11.06	0
			1	63	11.11	11.01	10.98	10.74	10.83	10.68	0
			32	0	11.49	11.60	11.35	11.29	11.32	11.12	0
			32	17	11.28	11.32	11.14	11.07	11.08	10.83	0
			32	33	11.18	11.35	11.01	11.09	11.10	10.75	0
		64	0	11.42	11.45	11.20	11.17	11.25	10.98	0	
		QPSK	1	1	11.59	11.68	11.37	11.40	11.33	11.20	0
			1	33	11.67	11.62	11.43	11.40	11.22	11.13	0
			1	63	11.07	11.00	11.01	10.86	10.97	10.67	0
			32	0	11.76	11.75	11.63	11.23	11.54	11.18	0
			32	17	11.32	11.32	11.17	11.10	11.12	10.87	0
	32		33	11.23	11.22	11.17	11.07	11.06	10.90	0	
	64	0	11.39	11.53	11.25	11.08	11.37	10.80	0		
	16QAM	1	1	11.28	11.36	11.20	11.37	11.38	11.39	0	
	64QAM	1	1	11.40	11.27	11.36	11.68	11.49	11.28	0	
256QAM	1	1	11.23	11.24	11.06	11.39	11.19	11.11	0		
CP-OFDM	QPSK	1	1	11.54	11.36	11.39	11.43	11.41	11.24	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 334	650 800	654 266	657 734	661 200	664 666	
					3 710.01 MHz	3 762.00 MHz	3 813.99 MHz	3 866.01 MHz	3 918.00 MHz	3 969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.84	11.78	11.31	11.43	11.42	11.35	0
			1	26	11.92	10.97	11.40	11.58	11.63	11.26	0
			1	49	11.40	11.49	10.88	11.15	11.09	10.95	0
			25	0	11.80	11.81	11.62	11.61	11.69	11.36	0
			25	13	11.48	11.41	11.30	11.29	11.40	11.05	0
			25	26	11.56	11.52	11.25	11.14	11.23	10.89	0
		50	0	11.69	11.45	11.38	11.34	11.45	11.19	0	
		QPSK	1	1	11.79	11.61	11.35	11.37	11.45	11.33	0
			1	26	11.79	11.82	11.66	11.55	11.50	11.22	0
			1	49	11.50	11.54	10.82	11.12	11.15	10.76	0
			25	0	11.75	11.80	11.55	11.65	11.82	11.35	0
			25	13	11.50	11.45	11.22	11.13	11.41	11.05	0
	25		26	11.61	11.67	11.29	11.23	11.33	10.99	0	
	50	0	11.68	11.43	11.29	11.46	11.32	11.07	0		
	16QAM	1	1	11.42	11.13	11.41	11.61	11.65	11.47	0	
	64QAM	1	1	11.58	11.06	11.57	11.48	11.52	11.45	0	
256QAM	1	1	11.46	10.99	11.41	11.49	11.46	11.28	0		
CP-OFDM	QPSK	1	1	11.31	11.06	11.41	11.35	11.31	11.48	0	

Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 168	650 700	654 234	65 7766	661 300	664 832	
					3 707.52 MHz	3 760.50 MHz	3 813.51 MHz	3 866.49 MHz	3 919.50 MHz	3 972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.61	11.68	11.33	11.56	11.32	11.09	0
			1	19	11.71	11.61	11.26	11.66	11.34	11.04	0
			1	36	11.22	11.11	11.03	11.12	10.84	10.60	0
			18	0	11.58	11.46	11.40	11.61	11.39	11.02	0
			18	10	11.52	11.43	11.33	11.48	11.22	10.95	0
			18	20	11.20	11.34	11.04	11.11	10.99	10.56	0
			36	0	11.58	11.49	11.28	11.68	11.17	10.94	0
		QPSK	1	1	11.67	11.80	11.44	11.51	11.29	11.11	0
			1	19	11.57	11.64	11.39	11.70	11.36	10.98	0
			1	36	11.20	11.14	11.18	11.03	10.93	10.71	0
			18	0	11.58	11.58	11.55	11.63	11.41	10.98	0
			18	10	11.49	11.31	11.29	11.48	11.16	10.93	0
			18	20	11.25	11.39	10.99	11.09	10.97	10.62	0
			36	0	11.60	11.59	11.48	11.66	11.34	10.89	0
	16QAM	1	1	11.12	11.22	11.02	11.11	11.24	11.13	0	
64QAM	1	1	11.07	11.14	11.20	11.05	11.09	11.01	0		
256QAM	1	1	11.09	11.10	10.96	11.08	11.11	10.99	0		
CP-OFDM	QPSK	1	1	11.03	11.09	11.02	10.90	11.00	10.88	0	

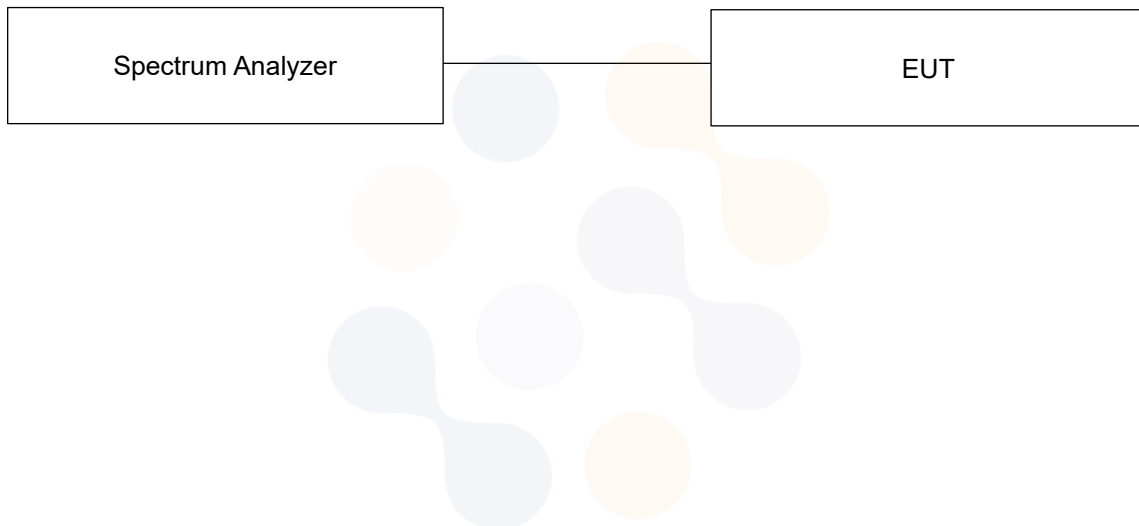
Band width	Modulation	Mode	RB Size	RB offset	Maximum Average Power						MPR
					647 000	650 600	654 200	657 800	661 400	665 000	
					3 705.00 MHz	3 759.00 MHz	3 813.00 MHz	3 867.00 MHz	3 921.00 MHz	3 975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	11.56	11.53	11.50	11.29	11.46	11.03	0
			1	12	11.58	11.50	11.20	11.13	11.47	10.93	0
			1	22	11.06	11.11	10.92	10.79	10.97	10.41	0
			12	0	11.60	11.39	11.33	11.10	11.42	10.89	0
			12	6	11.39	11.51	11.42	11.27	11.27	10.72	0
			12	12	11.21	11.19	10.85	10.94	10.92	10.69	0
			24	0	11.50	11.65	11.29	11.27	11.61	11.00	0
		QPSK	1	1	11.81	11.62	11.56	11.34	11.36	11.14	0
			1	12	11.34	11.38	11.21	11.31	11.38	10.83	0
			1	22	11.24	11.11	10.91	10.91	10.86	10.36	0
			12	0	11.49	11.29	11.15	11.15	11.45	10.92	0
			12	6	11.47	11.47	11.48	11.19	11.35	10.77	0
			12	12	11.28	11.14	10.97	11.03	10.91	10.61	0
			24	0	11.63	11.56	11.27	11.26	11.47	11.13	0
	16QAM	1	1	11.13	11.26	11.11	11.14	11.08	11.24	0	
64QAM	1	1	10.98	11.03	10.79	11.03	11.08	10.98	0		
256QAM	1	1	10.81	10.75	10.89	10.91	10.94	10.75	0		
CP-OFDM	QPSK	1	1	11.21	11.05	11.11	10.91	11.04	11.21	0	

10.7 WLAN & Bluetooth Average Conducted Output Power

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

Power Measurement Setup



10.7.1 WLAN Average Conducted Output Power

Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)			
				Main Ant.	Aux Ant.	MIMO Ant.	
						Main	Aux
WLAN 2.4 GHz	802.11b	2 412.0	1	18.08	N/A	17.62	17.70
		2 437.0	6	17.72		17.38	17.83
		2 462.0	11	18.18		17.72	18.54
U-NII-2A	802.11a	5 260.0	52	N/A	16.51	15.63	16.30
		5 280.0	56		16.22	16.39	15.99
		5 300.0	60		16.30	16.30	16.34
		5 320.0	64		15.95	16.55	16.17
U-NII-2C	802.11a	5 500.0	100		16.69	15.26	15.27
		5 600.0	120		16.66	15.34	15.65
		5 620.0	124		16.51	15.38	16.56
		5 720.0	144		14.70	13.68	14.98
U-NII-3	802.11a	5 745.0	149		14.88	14.28	14.63
		5 785.0	157		14.52	14.05	14.53
		5 825.0	165	15.02	15.00	14.94	

10.7.3 Bluetooth Average Conducted Output Power

Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)
Bluetooth	BDR DH5	2 402.0	0	15.84
		2 441.0	39	15.16
		2 480.0	78	16.55

10.7.2 WLAN Average Conducted Output Power(Back-off_Grip Sensor)

Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)			
				Main Ant.	Aux Ant.	MIMO Ant.	
						Main	Aux
WLAN 2.4 GHz	802.11b	2 412.0	1	10.03	N/A	9.41	9.02
		2 437.0	6	9.70		8.90	9.03
		2 462.0	11	10.14		9.63	10.36
U-NII-2A	802.11a	5 260.0	52	N/A	5.82	5.14	5.61
		5 280.0	56		5.62	5.64	5.66
		5 300.0	60		5.78	5.71	5.58
		5 320.0	64		5.63	6.08	5.75
U-NII-2C	802.11a	5 500.0	100		5.84	4.93	5.32
		5 600.0	120		6.07	4.89	5.80
		5 620.0	124		6.09	5.73	6.36
		5 720.0	144		5.40	4.54	6.15
U-NII-3	802.11a	5 745.0	149		5.92	5.84	5.29
		5 785.0	157		5.68	4.58	5.11
		5 825.0	165		5.84	6.21	5.41

10.7.4 Bluetooth Average Conducted Output Power(Back-off_Grip Sensor)

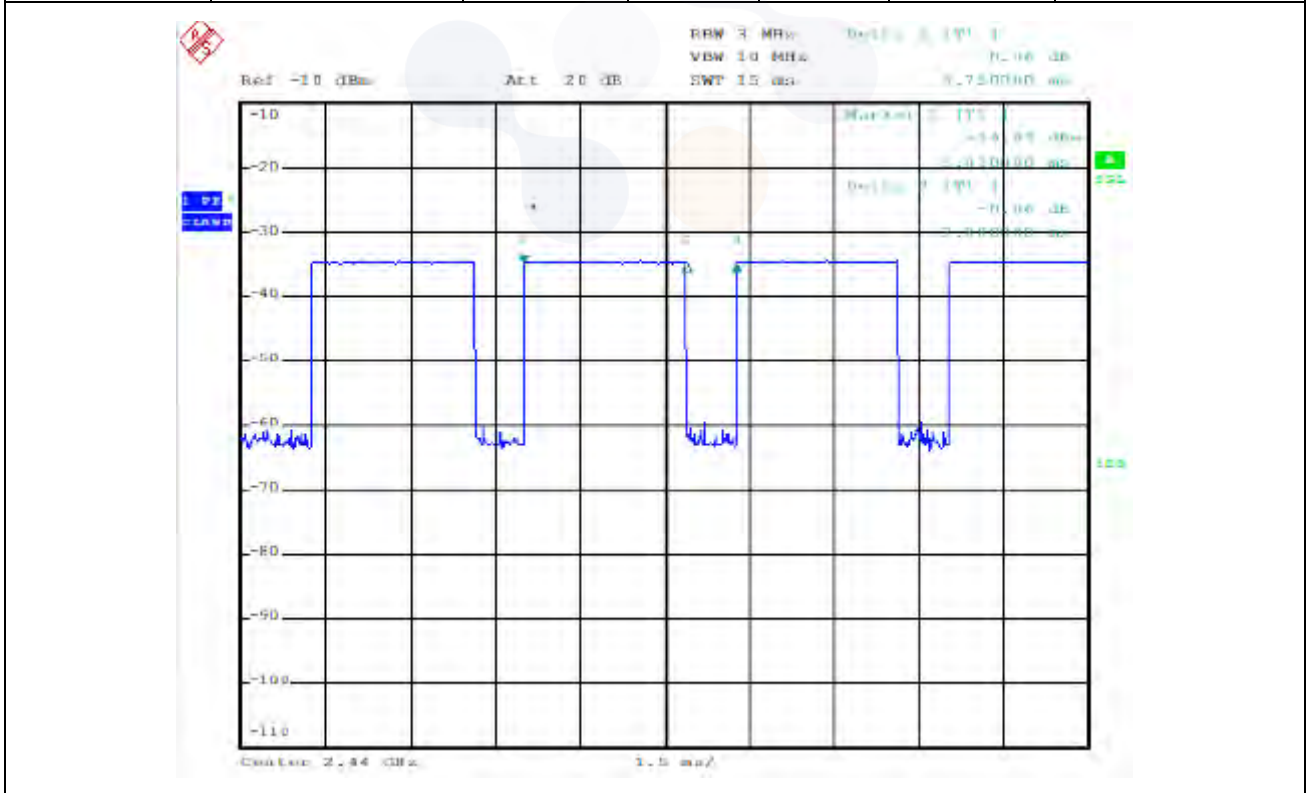
Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)
				Grip Sensor
Bluetooth	BDR DH5	2 402.0	0	11.85
		2 441.0	39	10.88
		2 480.0	78	12.39

10.8 Wireless Band Duty Cycle

Wireless Bands	Frequency Bands	Ant.	Mode	Duty Cycle (%)
WCDMA	Band II/ IV/ V	RMC, AMR, HSDPA, HSUPA,DC-HSDPA		100
LTE	FDD Band 2/5/7/12/13/14/25/26/30/66/71	QPSK, 16QAM, 64QAM, 256QAM		100
	TDD Band 40/41/48			63.33
5G NR	n5/12/25/30/41/48/66/71/77	DFT-s-OFDM, CP-OFDM		100
WLAN	2.4 GHz	Ant.1	802.11b	98.80
		MIMO		98.70
	U-NII	Ant.2	802.11a	93.50
		MIMO		94.10

Note : NR TDD Bands were applied as Frame Power(duty 100%).

Wireless Bands	Frequency Bands		On, Off Time		Duty Cycle	
	Mode	Packet	On Time (ms)	On-Off Time (ms)	Duty Cycle (%)	Duty Cycle Compensate Factor
Bluetooth	BDR(GFSK)	DH5	2.88	3.75	76.8	1.302



11. System Verification

11.1 Measurement date and environment

Shield room	Date	Environment	
		Temperature (°C)	Humidity (%)
8F - 1	2023-10-21	21.3 ~ 21.8	53.4 ~ 54.2
	2023-10-24	20.9 ~ 21.2	52.2 ~ 52.8
	2023-10-28	21.1 ~ 21.8	51.9 ~ 52.4
	2023-11-02	21.6 ~ 21.9	54.1 ~ 55.9
	2023-11-03	20.9 ~ 21.8	54.2 ~ 55.4
	2023-11-06	22.2 ~ 22.4	55.1 ~ 55.3
	2023-11-09	21.7 ~ 22.0	55.9 ~ 56.0
	2023-11-10	21.2 ~ 21.5	54.0 ~ 54.5
	2023-11-11	21.5 ~ 21.8	55.2 ~ 55.3
	2023-11-14	21.1 ~ 21.2	51.9 ~ 52.2
	2023-11-15	21.3 ~ 21.5	53.4 ~ 53.5
	2023-11-16	21.0 ~ 21.3	52.9 ~ 53.3
	2023-12-07	21.3 ~ 21.5	51.6 ~ 54.2
8F - 2	2023-11-09	21.2 ~ 21.6	54.7 ~ 55.3
	2023-11-10	21.3 ~ 21.8	55.9 ~ 56.7
	2023-11-13	21.1 ~ 21.3	55.3 ~ 56.8
	2023-11-15	21.6 ~ 21.8	54.6 ~ 55.7
	2023-11-16	21.3 ~ 21.5	55.3 ~ 55.6
8F - 3	2023-11-10	21.2 ~ 21.5	57.3 ~ 58.2
	2023-11-12	21.1 ~ 21.6	57.8 ~ 59.3
	2023-12-07	21.5 ~ 22.1	58.5 ~ 59.4
8F - 5	2023-10-04	21.1 ~ 21.2	53.1 ~ 60.0
	2023-10-05	22.4 ~ 22.8	52.4 ~ 56.8
	2023-10-06	21.2 ~ 21.4	57.8 ~ 58.8
	2023-10-10	21.9 ~ 22.5	52.1 ~ 54.9
	2023-10-11	21.7 ~ 22.0	51.9 ~ 53.7
	2023-10-12	21.3 ~ 21.6	55.1 ~ 58.8
	2023-10-13	22.0 ~ 22.3	51.1 ~ 52.5
	2023-10-14	21.2 ~ 22.1	52.7 ~ 59.8
	2023-10-15	21.6 ~ 22.2	51.6 ~ 55.5
	2023-10-16	22.3 ~ 22.5	52.0 ~ 58.3
	2023-10-17	21.5 ~ 22.4	54.7 ~ 57.3
	2023-11-07	22.1 ~ 22.6	51.2 ~ 57.1
	2023-11-08	22.5 ~ 22.7	59.1 ~ 60.6
	2023-11-10	22.1 ~ 22.4	54.3 ~ 58.9
	2023-11-22	21.1 ~ 21.5	57.6 ~ 59.0
2023-12-07	21.3 ~ 21.9	56.3 ~ 58.6	

11.2 Tissue Verification

The dielectric properties for this Tissue Simulant Liquids were measured by using the SPEAG Model DAK3.5 Dielectric Probe in conjunction with Agilent E5071B Network Analyzer (300 kHz – 8 500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 1. For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Liquids was $(22 \pm 2) ^\circ\text{C}$.

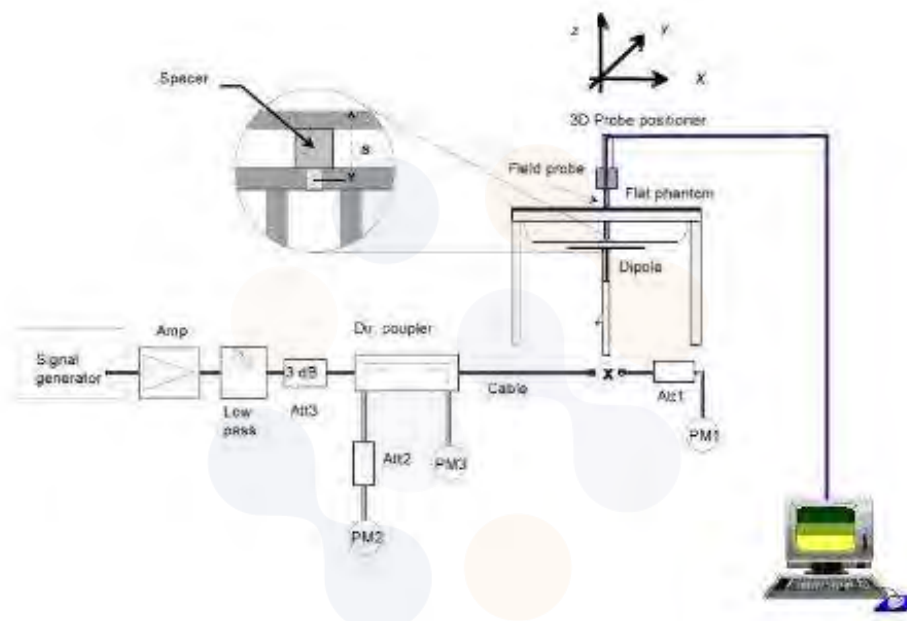
Frequency (MHz)	Limit/Measured	Permittivity (ρ)	Conductivity (σ)	Temp. ($^\circ\text{C}$)	
750.0	Recommended Limit	$41.90 \pm 5 \%$ (39.81 ~ 44.00)	$0.89 \pm 5 \%$ (0.85 ~ 0.93)	22 ± 2	
	Measured	2023-10-04	42.70	0.87	20.81
		2023-10-05	42.60	0.87	20.85
		2023-10-11	43.00	0.92	20.98
		2023-10-19	42.10	0.90	20.94
2023-12-07	42.70	0.89	20.95		
850.0	Recommended Limit	$41.50 \pm 5 \%$ (39.43 ~ 43.58)	$0.92 \pm 5 \%$ (0.87 ~ 0.97)	22 ± 2	
	Measured	2023-10-10	40.50	0.95	20.97
		2023-10-12	42.60	0.89	20.92
		2023-10-18	41.00	0.94	20.97
1 750.0	Recommended Limit	$40.07 \pm 5 \%$ (38.07 ~ 42.07)	$1.37 \pm 5 \%$ (1.30 ~ 1.44)	22 ± 2	
	Measured	2023-10-06	41.40	1.37	20.98
		2023-10-14	39.00	1.35	20.95
		2023-10-17	38.80	1.42	21.01
1 900.0	Recommended Limit	$40.00 \pm 5 \%$ (38.00 ~ 42.00)	$1.40 \pm 5 \%$ (1.33 ~ 1.47)	22 ± 2	
	Measured	2023-10-10	41.30	1.40	21.01
		2023-10-13	40.10	1.41	21.03
		2023-10-15	40.10	1.42	21.09
2 300.0	Recommended Limit	$39.46 \pm 5 \%$ (37.49 ~ 41.43)	$1.67 \pm 5 \%$ (1.59 ~ 1.75)	22 ± 2	
	Measured	2023-10-06	38.90	1.69	20.93
		2023-10-16	38.30	1.70	20.99
		2023-10-28	39.04	1.63	21.04
		2023-11-10	39.00	1.72	21.01
2023-11-22	38.20	1.68	21.08		
2 450.0	Recommended Limit	$39.20 \pm 5 \%$ (37.24 ~ 41.16)	$1.80 \pm 5 \%$ (1.71 ~ 1.89)	22 ± 2	
	Measured	2023-11-09	38.81	1.75	20.92
		2023-11-10	38.95	1.75	20.99
		2023-11-15	37.73	1.76	20.93
2 600.0	Recommended Limit	$39.00 \pm 5 \%$ (37.05 ~ 40.95)	$1.96 \pm 5 \%$ (1.86 ~ 2.06)	22 ± 2	
	Measured	2023-10-21	39.24	2.00	20.94
		2023-11-02	37.60	1.98	20.89
		2023-11-03	37.75	2.02	20.94
		2023-11-08	38.50	1.96	20.92
2023-12-07	37.49	1.95	21.01		

Frequency (MHz)	Limit/Measured	Permittivity (ρ)	Conductivity (σ)	Temp. (°C)	
3 500.0	Recommended Limit	37.90 ± 5 % (36.01 ~ 39.80)	2.91 ± 5 % (2.76 ~ 3.06)	22 ± 2	
	Measured	2023-10-24	36.98	2.84	20.87
		2023-11-02	37.34	2.96	21.05
		2023-11-09	38.11	2.82	20.92
		2023-11-11	37.87	2.89	20.98
		2023-11-14	39.38	2.88	20.81
		2023-11-15	37.13	2.86	20.76
		2023-11-16	38.79	2.82	20.87
2023-12-07	38.24	2.81	21.02		
3 700.0	Recommended Limit	37.70 ± 5 % (35.82 ~ 39.59)	3.12 ± 5 % (2.96 ~ 3.28)	22 ± 2	
	Measured	2023-10-24	36.62	3.01	20.87
		2023-11-02	36.80	3.17	21.05
		2023-11-06	38.60	3.01	20.99
		2023-11-10	37.32	3.10	20.91
		2023-11-11	37.50	3.09	20.98
		2023-11-14	38.82	3.02	20.81
		2023-11-15	37.11	3.07	20.76
2023-11-16	38.55	3.03	20.87		
2023-12-07	38.78	3.04	20.99		
3 900.0	Recommended Limit	37.50 ± 5 % (35.63 ~ 39.38)	3.33 ± 5 % (3.16 ~ 3.50)	22 ± 2	
	Measured	2023-11-06	38.31	3.22	20.99
		2023-11-10	37.00	3.30	20.91
		2023-11-14	38.42	3.28	20.81
		2023-11-15	36.80	3.27	20.76
2023-12-07	38.29	3.23	20.99		
5 250.0	Recommended Limit	35.95 ± 5 % (34.15 ~ 37.75)	4.71 ± 5 % (4.47 ~ 4.95)	22 ± 2	
	Measured	2023-11-13	37.02	4.56	20.91
		2023-11-16	35.02	4.64	21.06
5 600.0	Recommended Limit	35.50 ± 5 % (33.73 ~ 37.28)	5.07 ± 5 % (4.82 ~ 5.32)	22 ± 2	
	Measured	2023-11-12	36.14	5.09	20.95
		2023-11-16	34.34	5.03	21.06
5 800.0	Recommended Limit	35.30 ± 5 % (33.54 ~ 37.07)	5.27 ± 5 % (5.01 ~ 5.53)	22 ± 2	
	Measured	2023-11-10	34.51	5.30	21.14
		2023-11-12	36.13	5.27	20.95

<Table 1. Measurement result of Tissue electric parameters>

11.3 Test System Verification

The microwave circuit arrangement for system verification is sketched below picture. 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 $\pm 10\%$ 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 Table 2. During the tests, the ambient temperature of the laboratory was in the range $(22 \pm 2) ^\circ\text{C}$, the relative humidity was in the range $(50 \pm 20)\%$ and the liquid depth Above the ear/grid reference points was above 15 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.



Frequency (MHz)	Tissue Type	Probe S/N	Verification Kit	Date	Limit/Measured (Normalized to 1 W)
					Recommended 1g
750.0	HSL	EX3DV4 SN: 3928	D750V3 SN: 1224	Measured	$8.55 \pm 10\%$ (7.70~9.41)
				2023-10-04	8.32
				2023-10-05	8.92
				2023-10-11	8.84
				2023-10-19	8.48
				2023-12-07	8.72
850.0	HSL	EX3DV4 SN: 3928	D850V2 SN: 1030	Measured	$10.10 \pm 10\%$ (9.09~11.11)
				2023-10-10	10.40
				2023-10-12	10.20
				2023-10-18	10.44

Frequency (MHz)	Tissue Type	Probe S/N	Verification Kit	Date	Limit/Measured (Normalized to 1 W)
					Recommended 1g
1 750.0	HSL	EX3DV4 SN: 3928	D1750V2 SN: 1195	Measured	36.30 ± 10 % (32.67~39.93)
				2023-10-06	36.48
				2023-10-14	37.08
				2023-10-17	37.72
1 900.0	HSL	EX3DV4 SN: 3928	D1900V2 SN: 5d248	Measured	39.70 ± 10 % (35.73~43.67)
				2023-10-10	40.00
				2023-10-13	40.40
				2023-10-15	40.40
2 300.0	HSL	EX3DV4 SN: 3928	D2300V2 SN: 1049	Measured	49.10 ± 10 % (44.19~54.01)
				2023-10-06	48.20
				2023-10-16	50.70
		EX3DV4 SN: 7540		2023-10-28	49.00
		EX3DV4 SN: 3928		2023-11-10	49.80
		2023-11-22		48.30	
2 450.0	HSL	EX3DV4 SN: 3697	D2450V2 SN: 895	Measured	52.20 ± 10 % (46.98 ~ 57.42)
				2023-11-09	49.30
				2023-11-10	52.00
				2023-11-15	53.40
2 600.0	HSL	EX3DV4 SN: 7540	D2600V2 SN: 1200	Measured	55.50 ± 10 % (49.95~61.05)
				2023-10-21	52.10
		EX3DV4 SN: 3865	D2600V2 SN: 1050	Measured	57.30 ± 10 % (51.57~63.03)
				2023-11-02	55.60
				2023-11-03	56.50
		EX3DV4 SN: 7840	2023-12-07	56.40	
		EX3DV4 SN: 3928	D2600V2 SN: 1200	Measured	55.50 ± 10 % (49.95~61.05)
				2023-11-08	55.10
3 500.0	HSL	EX3DV4 SN: 7540	D3500V2 SN: 1065	Measured	64.70 ± 10 % (58.23~71.17)
				2023-10-24	63.80
				2023-11-02	66.70
				2023-11-09	67.60
				2023-11-11	61.90
				2023-11-14	62.20
				2023-11-15	61.00
				2023-11-16	62.30
3 700.0	HSL	EX3DV4 SN: 7540	D3700V2 SN: 1027	Measured	68.50 ± 10 % (61.65~75.35)
				2023-10-24	70.40
				2023-11-02	65.50
				2023-11-06	68.00
				2023-11-10	70.40
				2023-11-11	69.10
2023-11-14	67.90				

Frequency (MHz)	Tissue Type	Probe S/N	Verification Kit	Date	Limit/Measured (Normalized to 1 W) Recommended 1g
				2023-11-15	68.90
				2023-11-16	68.20
3 900.0	HSL	EX3DV4 SN: 7540	D3900V2 SN: 1043	Measured	71.30 ± 10 % (64.17~78.43)
				2023-11-06	72.00
				2023-11-10	74.30
				2023-11-14	72.90
				2023-11-15	73.20
5 250.0	HSL	EX3DV4 SN: 3697	D5GHzV2 SN: 1293	Measured	80.50 ± 10 % (72.45~88.55)
				2023-11-13	82.60
				2023-11-16	81.50
5 600.0	HSL	EX3DV4 SN: 7840	D5GHzV2 SN: 1293	Measured	82.60 ± 10 % (74.34~90.86)
				2023-11-12	81.90
		EX3DV4 SN: 3697	D5GHzV2 SN: 1293	2023-11-16	83.40
5 800.0	HSL	EX3DV4 SN: 7840	D5GHzV2 SN: 1293	Measured	80.10 ± 10 % (72.09~88.11)
				2023-11-10	82.90
				2023-11-12	80.00

<Table 2. System Verification Result>



12. SAR Test Results

12.1 Standalone Body SAR Test Results

WCDMA Band II									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	1 880.0	24.74	25.50	1.191	0.407	0.485	
	Right	7	1 880.0	24.74	25.50	1.191	0.368	0.438	
	Top	14	1 880.0	24.74	25.50	1.191	0.166	0.198	
	Grip Sensor on								
	Rear	0	1 880.0	14.27	15.00	1.183	0.512	0.606	1
Right	0	1 880.0	14.27	15.00	1.183	0.070	0.083		
Top	0	1 880.0	14.27	15.00	1.183	0.083	0.098		

WCDMA Band IV									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	1 732.4	24.76	25.50	1.186	0.474	0.562	
	Right	7	1 732.4	24.76	25.50	1.186	0.526	0.624	
	Top	14	1 732.4	24.76	25.50	1.186	0.062	0.074	
	Grip Sensor on								
	Rear	0	1 732.4	14.54	15.00	1.112	0.690	0.767	2
Right	0	1 732.4	14.54	15.00	1.112	0.104	0.116		
Top	0	1 732.4	14.54	15.00	1.112	0.032	0.036		

WCDMA Band V									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	836.6	24.20	24.50	1.072	0.528	0.566	3
	Right	7	836.6	24.20	24.50	1.072	0.517	0.554	
	Top	14	836.6	24.20	24.50	1.072	0.281	0.301	
	Grip Sensor on								
	Rear	0	836.6	17.63	18.00	1.089	0.401	0.437	
	Right	0	836.6	17.63	18.00	1.089	0.183	0.199	
Top	0	836.6	17.63	18.00	1.089	0.097	0.106		

LTE Band 2(Sub1)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 0Offset	Rear	19	1 880.0	23.56	25.00	1.393	0.158	0.220	
QPSK 20M 50RB 0Offset		19	1 880.0	22.71	24.00	1.346	0.132	0.178	
QPSK 20M 1RB 0Offset	Right	7	1 880.0	23.56	25.00	1.393	0.270	0.376	
QPSK 20M 50RB 0Offset		7	1 880.0	22.71	24.00	1.346	0.225	0.303	
QPSK 20M 1RB 0Offset	Bottom	15	1 880.0	23.56	25.00	1.393	0.231	0.322	
QPSK 20M 50RB 0Offset		15	1 880.0	22.71	24.00	1.346	0.188	0.253	
Grip Sensor on									
QPSK 20M 1RB 0Offset	Rear	0	1 860.0	14.45	15.00	1.135	0.421	0.478	
QPSK 20M 50RB 0Offset		0	1 860.0	14.46	15.00	1.132	0.458	0.518	4
QPSK 20M 1RB 0Offset	Right	0	1 860.0	14.45	15.00	1.135	0.065	0.074	
QPSK 20M 50RB 0Offset		0	1 860.0	14.46	15.00	1.132	0.067	0.076	
QPSK 20M 1RB 0Offset	Bottom	0	1 860.0	14.45	15.00	1.135	0.276	0.313	
QPSK 20M 50RB 0Offset		0	1 860.0	14.46	15.00	1.132	0.285	0.323	

LTE Band 5

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	19	836.5	23.85	25.50	1.462	0.385	0.563	5
QPSK 10M 25RB 12Offset		19	836.5	23.00	24.50	1.413	0.320	0.452	
QPSK 10M 1RB 0Offset	Right	7	836.5	23.85	25.50	1.462	0.377	0.551	
QPSK 10M 25RB 12Offset		7	836.5	23.00	24.50	1.413	0.321	0.454	
QPSK 10M 1RB 0Offset	Top	14	836.5	23.85	25.50	1.462	0.243	0.355	
QPSK 10M 25RB 12Offset		14	836.5	23.00	24.50	1.413	0.170	0.240	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	836.5	16.39	18.00	1.449	0.359	0.520	
QPSK 10M 25RB 12Offset		0	836.5	16.46	18.00	1.426	0.336	0.479	
QPSK 10M 1RB 0Offset	Right	0	836.5	16.39	18.00	1.449	0.148	0.214	
QPSK 10M 25RB 12Offset		0	836.5	16.46	18.00	1.426	0.141	0.201	
QPSK 10M 1RB 0Offset	Top	0	836.5	16.39	18.00	1.449	0.076	0.110	
QPSK 10M 25RB 12Offset		0	836.5	16.46	18.00	1.426	0.078	0.111	

LTE Band 7(Main2)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 0Offset	Rear	18	2 510.0	23.48	23.50	1.005	0.639	0.642	
QPSK 20M 50RB 0Offset		18	2 510.0	22.45	22.50	1.012	0.514	0.520	
QPSK 20M 1RB 0Offset	Right	0	2 510.0	23.48	23.50	1.005	0.361	0.363	
QPSK 20M 50RB 0Offset		0	2 510.0	22.45	22.50	1.012	0.271	0.274	
QPSK 20M 1RB 0Offset	Top	14	2 510.0	23.48	23.50	1.005	0.720	0.724	
QPSK 20M 50RB 0Offset		14	2 510.0	22.45	22.50	1.012	0.555	0.562	
Grip Sensor on									
QPSK 20M 1RB 0Offset	Rear	0	2 510.0	9.25	11.00	1.496	0.487	0.729	6
QPSK 20M 50RB 0Offset		0	2 510.0	9.26	11.00	1.493	0.479	0.715	
QPSK 20M 1RB 0Offset	Top	0	2 510.0	9.25	11.00	1.496	0.139	0.208	
QPSK 20M 50RB 0Offset		0	2 510.0	9.26	11.00	1.493	0.137	0.205	

LTE Band 7(Sub1)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 0Offset	Rear	19	2 560.0	22.15	23.50	1.365	0.270	0.369	
QPSK 20M 50RB 0Offset		19	2 560.0	21.24	22.50	1.337	0.163	0.218	
QPSK 20M 1RB 0Offset	Right	7	2 560.0	22.15	23.50	1.365	0.224	0.306	
QPSK 20M 50RB 0Offset		7	2 560.0	21.24	22.50	1.337	0.177	0.237	
QPSK 20M 1RB 0Offset	Bottom	15	2 560.0	22.15	23.50	1.365	0.140	0.191	
QPSK 20M 50RB 0Offset		15	2 560.0	21.24	22.50	1.337	0.107	0.143	
Grip Sensor on									
QPSK 20M 1RB 0Offset	Rear	0	2 560.0	10.98	11.00	1.005	0.399	0.401	7
QPSK 20M 50RB 0Offset		0	2 560.0	10.99	11.00	1.002	0.388	0.389	
QPSK 20M 1RB 0Offset	Right	0	2 560.0	10.98	11.00	1.005	0.034	0.034	
QPSK 20M 50RB 0Offset		0	2 560.0	10.99	11.00	1.002	0.032	0.032	
QPSK 20M 1RB 0Offset	Bottom	0	2 560.0	10.98	11.00	1.005	0.094	0.094	
QPSK 20M 50RB 0Offset		0	2 560.0	10.99	11.00	1.002	0.094	0.094	

LTE Band 12

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	19	707.5	23.95	25.50	1.429	0.203	0.290	
QPSK 10M 25RB 0Offset		19	707.5	23.06	24.50	1.393	0.166	0.231	
QPSK 10M 1RB 0Offset	Right	7	707.5	23.95	25.50	1.429	0.114	0.163	
QPSK 10M 25RB 0Offset		7	707.5	23.06	24.50	1.393	0.090	0.125	
QPSK 10M 1RB 0Offset	Top	14	707.5	23.95	25.50	1.429	0.215	0.307	
QPSK 10M 25RB 0Offset		14	707.5	23.06	24.50	1.393	0.172	0.240	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	707.5	16.73	18.00	1.340	0.431	0.578	8
QPSK 10M 25RB 0Offset		0	707.5	16.76	18.00	1.330	0.411	0.547	
QPSK 10M 1RB 0Offset	Right	0	707.5	16.73	18.00	1.340	0.107	0.143	
QPSK 10M 25RB 0Offset		0	707.5	16.76	18.00	1.330	0.110	0.146	
QPSK 10M 1RB 0Offset	Top	0	707.5	16.73	18.00	1.340	0.199	0.267	
QPSK 10M 25RB 0Offset		0	707.5	16.76	18.00	1.330	0.191	0.254	

LTE Band 13

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	19	782.0	24.80	25.50	1.175	0.368	0.432	9
QPSK 10M 25RB 0Offset		19	782.0	23.97	24.50	1.130	0.289	0.327	
QPSK 10M 1RB 0Offset	Right	7	782.0	24.80	25.50	1.175	0.274	0.322	
QPSK 10M 25RB 0Offset		7	782.0	23.97	24.50	1.130	0.213	0.241	
QPSK 10M 1RB 0Offset	Top	14	782.0	24.80	25.50	1.175	0.326	0.383	
QPSK 10M 25RB 0Offset		14	782.0	23.97	24.50	1.130	0.258	0.292	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	782.0	16.94	18.00	1.276	0.333	0.425	
QPSK 10M 25RB 0Offset		0	782.0	16.93	18.00	1.279	0.314	0.402	
QPSK 10M 1RB 0Offset	Right	0	782.0	16.94	18.00	1.276	0.123	0.157	
QPSK 10M 25RB 0Offset		0	782.0	16.93	18.00	1.279	0.121	0.155	
QPSK 10M 1RB 0Offset	Top	0	782.0	16.94	18.00	1.276	0.109	0.139	
QPSK 10M 25RB 0Offset		0	782.0	16.93	18.00	1.279	0.102	0.130	

LTE Band 14

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	19	793.0	24.55	25.50	1.245	0.319	0.397	10
QPSK 10M 25RB 0Offset		19	793.0	23.66	24.50	1.213	0.251	0.304	
QPSK 10M 1RB 0Offset	Right	7	793.0	24.55	25.50	1.245	0.280	0.349	
QPSK 10M 25RB 0Offset		7	793.0	23.66	24.50	1.213	0.208	0.252	
QPSK 10M 1RB 0Offset	Top	14	793.0	24.55	25.50	1.245	0.296	0.369	
QPSK 10M 25RB 0Offset		14	793.0	23.66	24.50	1.213	0.222	0.269	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	793.0	16.70	18.00	1.349	0.292	0.394	
QPSK 10M 25RB 0Offset		0	793.0	16.73	18.00	1.340	0.277	0.371	
QPSK 10M 1RB 0Offset	Right	0	793.0	16.70	18.00	1.349	0.108	0.146	
QPSK 10M 25RB 0Offset		0	793.0	16.73	18.00	1.340	0.104	0.139	
QPSK 10M 1RB 0Offset	Top	0	793.0	16.70	18.00	1.349	0.089	0.120	
QPSK 10M 25RB 0Offset		0	793.0	16.73	18.00	1.340	0.087	0.117	

LTE Band 25

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 49Offset	Rear	19	1 905.0	25.03	25.50	1.114	0.282	0.314	
QPSK 20M 50RB 0Offset		19	1 905.0	24.10	24.50	1.096	0.262	0.287	
QPSK 20M 1RB 49Offset	Right	7	1 905.0	25.03	25.50	1.114	0.183	0.204	
QPSK 20M 50RB 0Offset		7	1 905.0	24.10	24.50	1.096	0.166	0.182	
QPSK 20M 1RB 49Offset	Top	14	1 905.0	25.03	25.50	1.114	0.165	0.184	
QPSK 20M 50RB 0Offset		14	1 905.0	24.10	24.50	1.096	0.136	0.149	
Grip Sensor on									
QPSK 20M 1RB 49Offset	Rear	0	1 905.0	13.60	15.00	1.380	0.371	0.512	
QPSK 20M 50RB 0Offset		0	1 905.0	13.63	15.00	1.371	0.387	0.531	11
QPSK 20M 1RB 49Offset	Right	0	1 905.0	13.60	15.00	1.380	0.023	0.032	
QPSK 20M 50RB 0Offset		0	1 905.0	13.63	15.00	1.371	0.024	0.033	
QPSK 20M 1RB 49Offset	Top	0	1 905.0	13.60	15.00	1.380	0.076	0.105	
QPSK 20M 50RB 0Offset		0	1 905.0	13.63	15.00	1.371	0.081	0.111	

LTE Band 26

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 15M 1RB 0Offset	Rear	19	831.5	23.72	25.00	1.343	0.351	0.471	12
QPSK 15M 36RB 0Offset		19	831.5	22.85	24.00	1.303	0.270	0.352	
QPSK 15M 1RB 0Offset	Right	7	831.5	23.72	25.00	1.343	0.311	0.418	
QPSK 15M 36RB 0Offset		7	831.5	22.85	24.00	1.303	0.241	0.314	
QPSK 15M 1RB 0Offset	Top	14	831.5	23.72	25.00	1.343	0.232	0.312	
QPSK 15M 36RB 0Offset		14	831.5	22.85	24.00	1.303	0.188	0.245	
Grip Sensor on									
QPSK 15M 1RB 0Offset	Rear	0	831.5	16.52	18.00	1.406	0.266	0.374	
QPSK 15M 36RB 0Offset		0	831.5	16.53	18.00	1.403	0.266	0.373	
QPSK 15M 1RB 0Offset	Right	0	831.5	16.52	18.00	1.406	0.105	0.148	
QPSK 15M 36RB 0Offset		0	831.5	16.53	18.00	1.403	0.103	0.145	
QPSK 15M 1RB 0Offset	Top	0	831.5	16.52	18.00	1.406	0.092	0.129	
QPSK 15M 36RB 0Offset		0	831.5	16.53	18.00	1.403	0.087	0.122	

LTE Band 30

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10 MHz 1RB 0Offset	Rear	19	2 310.0	22.86	23.30	1.107	0.374	0.414	
QPSK 10 MHz 25RB 12Offset		19	2 310.0	21.94	23.30	1.368	0.275	0.376	
QPSK 10 MHz 1RB 0Offset	Right	0	2 310.0	22.86	23.30	1.107	0.147	0.163	
QPSK 10 MHz 25RB 12Offset		0	2 310.0	21.94	23.30	1.368	0.104	0.142	
QPSK 10 MHz 1RB 0Offset	Top	14	2 310.0	22.86	23.30	1.107	0.427	0.473	
QPSK 10 MHz 25RB 12Offset		14	2 310.0	21.94	23.30	1.368	0.338	0.462	
Grip Sensor on									
QPSK 10 MHz 1RB 0Offset	Rear	0	2 310.0	13.72	15.00	1.343	0.612	0.822	13
QPSK 10 MHz 25RB 12Offset		0	2 310.0	13.71	15.00	1.346	0.603	0.812	
QPSK 10 MHz 50RB 0Offset		0	2 310.0	13.70	15.00	1.349	0.596	0.804	
QPSK 10 MHz 1RB 0Offset	Top	0	2 310.0	13.72	15.00	1.343	0.174	0.234	
QPSK 10 MHz 25RB 12Offset		0	2 310.0	13.71	15.00	1.346	0.171	0.230	

LTE Band 40(lower)



Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	18	2 310.0	23.20	23.50	1.072	0.216	0.232	
QPSK 10M 25RB 0Offset		18	2 310.0	22.18	22.50	1.076	0.175	0.188	
QPSK 10M 1RB 0Offset	Right	0	2 310.0	23.20	23.50	1.072	0.085	0.091	
QPSK 10M 25RB 0Offset		0	2 310.0	22.18	22.50	1.076	0.063	0.068	
QPSK 10M 1RB 0Offset	Top	14	2 310.0	23.20	23.50	1.072	0.191	0.205	
QPSK 10M 25RB 0Offset		14	2 310.0	22.18	22.50	1.076	0.153	0.165	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	2 310.0	13.63	15.00	1.371	0.269	0.369	14
QPSK 10M 25RB 0Offset		0	2 310.0	13.70	15.00	1.349	0.269	0.363	
QPSK 10M 1RB 0Offset	Top	0	2 310.0	13.63	15.00	1.371	0.098	0.134	
QPSK 10M 25RB 0Offset		0	2 310.0	13.70	15.00	1.349	0.099	0.134	

LTE Band 40(upper)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10M 1RB 0Offset	Rear	18	2 355.0	23.05	23.50	1.109	0.190	0.211	
QPSK 10M 25RB 0Offset		18	2 355.0	21.99	22.50	1.125	0.161	0.181	
QPSK 10M 1RB 0Offset	Right	0	2 355.0	23.05	23.50	1.109	0.065	0.072	
QPSK 10M 25RB 0Offset		0	2 355.0	21.99	22.50	1.125	0.048	0.054	
QPSK 10M 1RB 0Offset	Top	14	2 355.0	23.05	23.50	1.109	0.217	0.241	
QPSK 10M 25RB 0Offset		14	2 355.0	21.99	22.50	1.125	0.165	0.186	
Grip Sensor on									
QPSK 10M 1RB 0Offset	Rear	0	2 355.0	13.49	15.00	1.416	0.264	0.374	
QPSK 10M 25RB 0Offset		0	2 355.0	13.40	15.00	1.445	0.261	0.377	15
QPSK 10M 1RB 0Offset	Top	0	2 355.0	13.49	15.00	1.416	0.106	0.150	
QPSK 10M 25RB 0Offset		0	2 355.0	13.40	15.00	1.445	0.109	0.158	

LTE Band 41(Power Class 3)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 49Offset	Rear	18	2593.0	24.92	25.00	1.019	0.434	0.442	
QPSK 20M 50RB 0Offset		18	2593.0	23.97	24.00	1.007	0.356	0.358	
QPSK 20M 1RB 49Offset	Right	0	2593.0	24.92	25.00	1.019	0.314	0.320	
QPSK 20M 50RB 0Offset		0	2593.0	23.97	24.00	1.007	0.263	0.265	
QPSK 20M 1RB 49Offset	Top	14	2593.0	24.92	25.00	1.019	0.725	0.739	
QPSK 20M 1RB 49Offset		14	2506.0	24.75	25.00	1.059	0.600	0.635	
QPSK 20M 1RB 49Offset		14	2 549.5	24.85	25.00	1.035	0.693	0.717	
QPSK 20M 1RB 49Offset		14	2 636.5	24.79	25.00	1.050	0.641	0.673	
QPSK 20M 1RB 49Offset		14	2 680.0	24.48	25.00	1.127	0.525	0.592	
QPSK 20M 50RB 0Offset		14	2 593.0	23.97	24.00	1.007	0.506	0.510	
Grip Sensor on									
QPSK 20M 1RB 0Offset	Rear	0	2 680.0	13.50	14.00	1.122	0.646	0.725	
QPSK 20M 1RB 0Offset		0	2 506.0	13.46	14.00	1.132	0.484	0.548	
QPSK 20M 1RB 0Offset		0	2 549.5	13.05	14.00	1.245	0.528	0.657	
QPSK 20M 1RB 0Offset		0	2 593.0	13.20	14.00	1.202	0.610	0.733	
QPSK 20M 1RB 0Offset		0	2 636.5	13.20	14.00	1.202	0.647	0.778	
QPSK 20M 50RB 0Offset		0	2 680.0	13.42	14.00	1.143	0.629	0.719	
QPSK 20M 50RB 0Offset		0	2 506.0	13.34	14.00	1.164	0.487	0.567	
QPSK 20M 50RB 0Offset		0	2 549.5	13.01	14.00	1.256	0.528	0.663	
QPSK 20M 50RB 0Offset		0	2 593.0	13.15	14.00	1.216	0.603	0.733	
QPSK 20M 50RB 0Offset		0	2 636.5	13.18	14.00	1.208	0.651	0.786	16
QPSK 20M 1RB 0Offset		Top	0	2 680.0	13.50	14.00	1.122	0.219	0.246
QPSK 20M 50RB 0Offset	0		2 680.0	13.42	14.00	1.143	0.220	0.251	

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LTE Band 41 (Power Class 2)								
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)
QPSK 20M 50RB 0Offset	Rear	0	2 636.5	13.16	14.00	1.213	0.433	0.525

Note: Per May 2017 TCB Workshop, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

LTE Band 41 UL CA								
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)
QPSK 20M 50RB 0Offset	Rear(PCC)	0	2 636.5	13.15	14.00	1.216	0.631	0.767
QPSK 20M 50RB 50Offset	Rear(SCC)	0	2 616.7					

LTE Band 41 PC3 vs PC2 linearly result						
Exposure Condition	LTE Band 41 PC3		LTE Band 41 PC2		PC 2 linearly Scaled SAR [W/kg]	Dev. [%]
	Maximum Tune-up Power [dBm]	Reported SAR [W/kg]	Maximum Tune-up Power [dBm]	Reported SAR [W/kg]		
Body	14.00	0.786	14.00	0.525	0.767	-2.35

Note: The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g.

LTE Band 48

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 49Offset	Rear	18	3 690.0	23.41	23.50	1.021	0.152	0.155	
QPSK 20M 50RB 50Offset		18	3 690.0	22.41	22.50	1.021	0.123	0.126	
QPSK 20M 1RB 49Offset	Right	0	3 690.0	23.41	23.50	1.021	0.333	0.340	
QPSK 20M 50RB 50Offset		0	3 690.0	22.41	22.50	1.021	0.261	0.266	
QPSK 20M 1RB 49Offset	Top	14	3 690.0	23.41	23.50	1.021	0.145	0.148	
QPSK 20M 50RB 50Offset		14	3 690.0	22.41	22.50	1.021	0.130	0.133	
Grip Sensor on									
QPSK 20M 1RB 49Offset	Rear	0	3690.0	13.44	13.50	1.014	0.470	0.477	17
QPSK 20M 50RB 50Offset		0	3690.0	13.44	13.50	1.014	0.433	0.439	
QPSK 20M 1RB 49Offset	Top	0	3690.0	13.44	13.50	1.014	0.065	0.066	
QPSK 20M 50RB 50Offset		0	3690.0	13.44	13.50	1.014	0.067	0.068	

LTE Band 48 UL CA

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)
QPSK 20M 1RB 0Offset	Rear(PCC)	0	3690.0	13.21	13.50	1.069	0.432	0.462
QPSK 20M 1RB 99Offset	Rear(SCC)	0	3670.2					

LTE Band 66(Main1)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 49Offset	Rear	19	1 745.0	25.34	25.50	1.038	0.484	0.502	
QPSK 20M 50RB 50Offset		19	1 745.0	24.33	24.33	1.000	0.317	0.317	
QPSK 20M 1RB 49Offset	Right	7	1 745.0	25.34	25.50	1.038	0.639	0.663	18
QPSK 20M 50RB 50Offset		7	1 745.0	24.33	24.33	1.000	0.500	0.500	
QPSK 20M 1RB 49Offset	Top	14	1 745.0	25.34	25.50	1.038	0.084	0.087	
QPSK 20M 50RB 50Offset		14	1 745.0	24.33	24.33	1.000	0.072	0.072	
Grip Sensor on									
QPSK 20M 1RB 49Offset	Rear	0	1 745.0	14.05	15.00	1.245	0.401	0.499	
QPSK 20M 50RB 50Offset		0	1 745.0	14.06	15.00	1.242	0.397	0.493	
QPSK 20M 1RB 49Offset	Right	0	1 745.0	14.05	15.00	1.245	0.096	0.120	
QPSK 20M 50RB 50Offset		0	1 745.0	14.06	15.00	1.242	0.091	0.113	
QPSK 20M 1RB 49Offset	Top	0	1 745.0	14.05	15.00	1.245	0.023	0.029	
QPSK 20M 50RB 50Offset		0	1 745.0	14.06	15.00	1.242	0.025	0.031	

LTE Band 66(Sub1)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 49Offset	Rear	19	1 745.0	24.00	25.50	1.413	0.194	0.274	
QPSK 20M 50RB 0Offset		19	1 745.0	23.14	24.50	1.368	0.158	0.216	
QPSK 20M 1RB 49Offset	Right	7	1 745.0	24.00	25.50	1.413	0.253	0.357	
QPSK 20M 50RB 0Offset		7	1 745.0	23.14	24.50	1.368	0.208	0.285	
QPSK 20M 1RB 49Offset	Bottom	15	1 745.0	24.00	25.50	1.413	0.172	0.243	
QPSK 20M 50RB 0Offset		15	1 745.0	23.14	24.50	1.368	0.132	0.181	
Grip Sensor on									
QPSK 20M 1RB 49Offset	Rear	0	1 745.0	14.71	15.00	1.069	0.361	0.386	
QPSK 20M 50RB 0Offset		0	1 745.0	14.78	15.00	1.052	0.373	0.392	19
QPSK 20M 1RB 49Offset	Right	0	1 745.0	14.71	15.00	1.069	0.078	0.083	
QPSK 20M 50RB 0Offset		0	1 745.0	14.78	15.00	1.052	0.082	0.086	
QPSK 20M 1RB 49Offset	Bottom	0	1 745.0	14.71	15.00	1.069	0.211	0.226	
QPSK 20M 50RB 0Offset		0	1 745.0	14.78	15.00	1.052	0.201	0.211	

LTE Band 71

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dB m)	Max. Tune-up Power (dB m)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20M 1RB 0Offset	Rear	19	680.5	23.90	24.50	1.148	0.173	0.199	
QPSK 20M 50RB 0Offset		19	680.5	22.91	23.50	1.146	0.128	0.147	
QPSK 20M 1RB 0Offset	Right	7	680.5	23.90	24.50	1.148	0.080	0.092	
QPSK 20M 50RB 0Offset		7	680.5	22.91	23.50	1.146	0.066	0.076	
QPSK 20M 1RB 0Offset	Top	14	680.5	23.90	24.50	1.148	0.161	0.185	
QPSK 20M 50RB 0Offset		14	680.5	22.91	23.50	1.146	0.124	0.142	
Grip Sensor on									
QPSK 20M 1RB 0Offset	Rear	0	680.5	19.08	20.00	1.236	0.699	0.864	20
QPSK 20M 50RB 0Offset		0	680.5	19.10	20.00	1.230	0.597	0.734	
QPSK 20M 100RB 0Offset		0	680.5	19.02	20.00	1.253	0.597	0.748	
QPSK 20M 1RB 0Offset	Right	0	680.5	19.08	20.00	1.236	0.130	0.161	
QPSK 20M 50RB 0Offset		0	680.5	19.10	20.00	1.230	0.133	0.164	
QPSK 20M 1RB 0Offset	Top	0	680.5	19.08	20.00	1.236	0.381	0.471	
QPSK 20M 50RB 0Offset		0	680.5	19.10	20.00	1.230	0.371	0.456	

5G NR n5

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Rear	19	836.5	24.79	25.50	1.178	0.435	0.512	21
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		19	836.5	24.65	25.50	1.216	0.526	0.640	
CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset		19	836.5	23.28	24.00	1.180	0.276	0.326	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Right	7	836.5	24.79	25.50	1.178	0.438	0.516	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		7	836.5	24.65	25.50	1.216	0.513	0.624	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Top	14	836.5	24.79	25.50	1.178	0.286	0.337	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		14	836.5	24.65	25.50	1.216	0.263	0.320	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Rear	0	836.5	16.57	18.00	1.390	0.351	0.488	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	836.5	16.55	18.00	1.396	0.343	0.479	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Right	0	836.5	16.57	18.00	1.390	0.166	0.231	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	836.5	16.55	18.00	1.396	0.160	0.223	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Top	0	836.5	16.57	18.00	1.390	0.078	0.108	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	836.5	16.55	18.00	1.396	0.086	0.120	

5G NR n12

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 1RB 1offset	Rear	19	707.5	24.73	25.50	1.194	0.262	0.313	
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 36RB 22offset		19	707.5	24.79	25.50	1.178	0.309	0.364	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Right	7	707.5	24.73	25.50	1.194	0.141	0.168	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 36RB 22offset		7	707.5	24.79	25.50	1.178	0.167	0.197	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Top	14	707.5	24.73	25.50	1.194	0.214	0.256	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 36RB 22offset		14	707.5	24.79	25.50	1.178	0.185	0.218	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 1RB 1offset	Rear	0	707.5	16.78	18.00	1.324	0.503	0.666	22
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 36RB 0offset		0	707.5	16.71	18.00	1.346	0.493	0.664	
CP-OFDM_QPSK SCS 15 kHz_15 MHz 1RB 1offset		0	707.5	16.74	18.00	1.337	0.487	0.651	
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 1RB 1offset	Right	0	707.5	16.78	18.00	1.324	0.104	0.138	
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 36RB 0offset		0	707.5	16.71	18.00	1.346	0.123	0.166	
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 1RB 1offset	Top	0	707.5	16.78	18.00	1.324	0.214	0.283	
DFT-S-OFDM_QPSK SCS 15 kHz_15 MHz 36RB 0offset		0	707.5	16.71	18.00	1.346	0.215	0.289	

5G NR n25

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Rear	19	1 905.0	25.01	25.50	1.119	0.333	0.373	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		19	1 905.0	24.99	25.50	1.125	0.353	0.397	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Right	7	1 905.0	25.01	25.50	1.119	0.203	0.227	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		7	1 905.0	24.99	25.50	1.125	0.205	0.231	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Top	14	1 905.0	25.01	25.50	1.119	0.175	0.196	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		14	1 905.0	24.99	25.50	1.125	0.171	0.192	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Rear	0	1 905.0	13.75	15.00	1.334	0.416	0.555	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	1 905.0	13.79	15.00	1.321	0.428	0.565	23
CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset		0	1 905.0	13.75	15.00	1.334	0.422	0.563	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Right	0	1 905.0	13.75	15.00	1.334	0.029	0.039	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	1 905.0	13.79	15.00	1.321	0.030	0.040	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 104offset	Top	0	1 905.0	13.75	15.00	1.334	0.085	0.113	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	1 905.0	13.79	15.00	1.321	0.081	0.107	

5G NR n30									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_10MHz 1RB 26offset	Rear	18	2 310.0	23.46	23.50	1.009	0.317	0.320	
		18	2 310.0	23.40	23.50	1.023	0.325	0.332	
DFT-S-OFDM_QPSK SCS 15 kHz_10MHz 1RB 26offset	Right	0	2 310.0	23.46	23.50	1.009	0.104	0.105	
		0	2 310.0	23.40	23.50	1.023	0.102	0.104	
DFT-S-OFDM_QPSK SCS 15 kHz_10MHz 1RB 26offset	Top	14	2 310.0	23.46	23.50	1.009	0.381	0.384	
		14	2 310.0	23.40	23.50	1.023	0.379	0.388	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_10 MHz 1RB 26offset	Rear	0	2 310.0	12.76	14.00	1.330	0.555	0.738	
		0	2 310.0	12.73	14.00	1.340	0.558	0.748	24
		0	2 310.0	12.72	14.00	1.343	0.543	0.729	
DFT-S-OFDM_QPSK SCS 15 kHz_10 MHz 1RB 26offset	Top	0	2 310.0	12.76	14.00	1.330	0.180	0.239	
		0	2 310.0	12.73	14.00	1.340	0.180	0.241	

5G NR n41(Power Class 2)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1 offset	Rear	18	2 592.99	20.74	21.00	1.062	0.375	0.398	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69 offset		18	2 592.99	20.55	21.00	1.109	0.356	0.395	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1 offset	Right	0	2 592.99	20.74	21.00	1.062	0.302	0.321	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69 offset		0	2 592.99	20.55	21.00	1.109	0.220	0.244	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1 offset	Top	14	2 592.99	20.74	21.00	1.062	0.449	0.477	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69 offset		14	2 592.99	20.55	21.00	1.109	0.379	0.420	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 30 kHz_100MHz 1RB 137offset	Rear	0	2 592.99	11.60	12.00	1.096	0.649	0.711	25
DFT-S-OFDM_QPSK SCS 30 kHz_100MHz 135RB 69offset		0	2 592.99	11.69	12.00	1.074	0.656	0.705	
CP-OFDM_QPSK SCS 30 kHz_100MHz 1RB 1offset		0	2 592.99	11.54	12.00	1.112	0.628	0.698	
DFT-S-OFDM_QPSK SCS 30 kHz_100MHz 1RB 137offset	Top	0	2 592.99	11.60	12.00	1.096	0.200	0.219	
DFT-S-OFDM_QPSK SCS 30 kHz_100MHz 135RB 69offset		0	2 592.99	11.69	12.00	1.074	0.196	0.211	

5G NR n48

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 104offset	Rear	18	3679.98	17.27	17.50	1.054	0.059	0.062	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 56offset		18	3679.98	17.34	17.50	1.038	0.055	0.057	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 104offset	Top	14	3679.98	17.27	17.50	1.054	0.059	0.062	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 56offset		14	3679.98	17.34	17.50	1.038	0.052	0.054	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Rear	0	3679.98	8.87	9.00	1.030	0.375	0.386	26
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3679.98	8.75	9.00	1.059	0.325	0.344	
CP-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3679.98	8.90	9.00	1.023	0.375	0.384	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Top	0	3679.98	8.91	9.00	1.021	0.047	0.048	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3679.98	8.75	9.00	1.059	0.057	0.060	

5G NR n48 SRS #1									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Rear	0	3570.00	6.93	7.00	1.016	0.891	0.905	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3624.99	6.88	7.00	1.028	1.010	1.038	27
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3679.98	6.60	7.00	1.096	0.859	0.941	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3570.00	6.81	7.00	1.045	0.861	0.900	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3624.99	6.80	7.00	1.047	0.966	1.011	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 56offset		0	3679.98	6.59	7.00	1.099	0.821	0.902	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 100RB 0offset		0	3570.00	6.66	7.00	1.081	0.841	0.909	
CP-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3624.99	5.89	6.50	1.151	0.642	0.739	
Repeated SAR Test									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Rear	0	3624.99	6.88	7.00	1.028	1.010	1.038	

5G NR n48 SRS #2

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Rear	0	3624.99	6.92	7.00	1.019	0.818	0.834	28
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3570.00	6.81	7.00	1.045	0.674	0.704	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3679.98	6.73	7.00	1.064	0.744	0.792	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3624.99	6.88	7.00	1.028	0.793	0.815	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3570.00	6.76	7.00	1.057	0.644	0.681	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 0offset		0	3679.98	6.83	7.00	1.040	0.701	0.729	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 100RB 0offset		0	3624.99	6.79	7.00	1.050	0.792	0.832	
CP-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3624.99	6.13	6.50	1.089	0.646	0.703	
Repeated SAR Test									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset	Rear	0	3624.99	6.92	7.00	1.019	0.802	0.817	

5G NR n48 SRS #3									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 53offset	Rear	0	3679.98	10.93	11.00	1.016	0.479	0.487	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 56offset		0	3679.98	10.92	11.00	1.019	0.523	0.533	29
CP-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 1offset		0	3679.98	9.76	10.50	1.186	0.407	0.483	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 1RB 53offset	Right	0	3679.98	10.93	11.00	1.016	0.042	0.043	
DFT-S-OFDM_QPSK SCS 30 kHz_40 MHz 50RB 56offset		0	3679.98	10.92	11.00	1.019	0.046	0.047	



5G NR n66

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Rear	19	1 745.0	25.21	25.50	1.069	0.495	0.529	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		19	1 745.0	25.27	25.50	1.054	0.502	0.529	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Right	7	1 745.0	25.21	25.50	1.069	0.726	0.776	30
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		7	1 745.0	25.27	25.50	1.054	0.680	0.717	
CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset		7	1 745.0	23.25	24.00	1.189	0.348	0.414	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Top	14	1 745.0	25.21	25.50	1.069	0.078	0.083	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		14	1 745.0	25.27	25.50	1.054	0.080	0.084	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Rear	0	1 745.0	14.13	15.00	1.222	0.587	0.717	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		0	1 745.0	14.08	15.00	1.236	0.580	0.717	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Right	0	1 745.0	14.13	15.00	1.222	0.126	0.154	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		0	1 745.0	14.08	15.00	1.236	0.116	0.143	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 1RB 108offset	Top	0	1 745.0	14.13	15.00	1.222	0.031	0.038	
DFT-S-OFDM_QPSK SCS 15 kHz_40 MHz 108RB 54offset		0	1 745.0	14.08	15.00	1.236	0.028	0.035	

5G NR n71

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 1RB 53offset	Rear	19	680.5	23.94	24.50	1.138	0.139	0.158	
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 50RB 28offset		19	680.5	23.86	24.50	1.159	0.153	0.177	
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 1RB 53offset	Right	7	680.5	23.94	24.50	1.138	0.079	0.090	
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 50RB 28offset		7	680.5	23.86	24.50	1.159	0.088	0.102	
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 1RB 53offset	Top	14	680.5	23.94	24.50	1.138	0.163	0.185	
DFT-S-OFDM_QPSK SCS 15 kHz_20MHz 50RB 28offset		14	680.5	23.86	24.50	1.159	0.164	0.190	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset	Rear	0	680.5	18.45	20.00	1.429	0.555	0.793	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	680.5	18.41	20.00	1.442	0.556	0.802	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 100RB 0offset		0	680.5	18.32	20.00	1.472	0.603	0.888	
CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset		0	680.5	18.19	20.00	1.517	0.595	0.903	31
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset	Right	0	680.5	18.45	20.00	1.429	0.158	0.226	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	680.5	18.41	20.00	1.442	0.156	0.225	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset	Top	0	680.5	18.45	20.00	1.429	0.305	0.436	
DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset		0	680.5	18.41	20.00	1.442	0.296	0.427	

5G NR n77(PC2 lower)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	18	3 500.01	20.91	22.00	1.285	0.123	0.158	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		18	3 500.01	20.78	22.00	1.324	0.128	0.169	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Right	0	3 500.01	20.91	22.00	1.285	0.284	0.365	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 500.01	20.78	22.00	1.324	0.328	0.434	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Top	14	3 500.01	20.91	22.00	1.285	0.173	0.222	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		14	3 500.01	20.78	22.00	1.324	0.182	0.241	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	0	3 500.01	11.75	12.00	1.059	0.722	0.765	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 0offset		0	3 500.01	11.69	12.00	1.074	0.714	0.767	
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3 500.01	11.49	12.00	1.125	0.691	0.777	32
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Top	0	3 500.01	11.75	12.00	1.059	0.172	0.182	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 0offset		0	3 500.01	11.69	12.00	1.074	0.174	0.187	

5G NR n77(PC 2 upper)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	18	3750.00	21.13	22.00	1.222	0.142	0.174	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		18	3750.00	20.97	22.00	1.268	0.136	0.172	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Right	0	3750.00	21.13	22.00	1.222	0.269	0.329	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3750.00	20.97	22.00	1.268	0.276	0.350	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Top	14	3750.00	21.13	22.00	1.222	0.216	0.264	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		14	3750.00	20.97	22.00	1.268	0.229	0.290	
Grip Sensor on									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	0	3750.00	11.89	12.00	1.026	0.717	0.736	33
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3930.00	11.12	12.00	1.225	0.505	0.619	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 0offset		0	3750.00	11.66	12.00	1.081	0.681	0.736	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 0offset		0	3930.00	11.63	12.00	1.089	0.468	0.510	
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3750.00	11.82	12.00	1.042	0.612	0.638	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Top	0	3750.00	11.89	12.00	1.026	0.285	0.292	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 0offset		0	3750.00	11.66	12.00	1.081	0.125	0.135	

5G NR n77 SRS #1(PC 2 lower)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	0	3 500.01	6.57	7.00	1.104	0.994	1.097	34
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 500.01	6.25	7.00	1.189	0.888	1.056	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 270RB 0offset		0	3 500.01	5.20	6.00	1.202	0.737	0.886	
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3 500.01	4.53	5.50	1.250	0.557	0.696	
Repeated SAR Test									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	0	3 500.01	6.57	7.00	1.104	0.971	1.072	

5G NR n77 SRS #1(PC 2 upper)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset	Rear	0	3 750.0	6.98	7.00	1.005	0.749	0.753	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset		0	3 930.0	6.69	7.00	1.074	0.993	1.066	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 750.0	6.80	7.00	1.047	0.745	0.780	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 930.0	6.76	7.00	1.057	1.030	1.089	35
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 270RB 0offset		0	3 930.0	5.59	6.00	1.099	0.852	0.936	
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3 930.0	5.27	5.50	1.054	0.643	0.678	
Repeated SAR Test									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset	Rear	0	3 930.0	6.76	7.00	1.057	1.010	1.068	

5G NR n77 SRS #2(PC 2 lower)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Rear	0	3 500.01	6.98	7.00	1.005	0.921	0.926	36
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 500.01	6.91	7.00	1.021	0.892	0.911	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 270RB 0offset		0	3 500.01	5.83	6.00	1.040	0.721	0.750	
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3 500.01	5.28	5.50	1.052	0.654	0.688	
Repeated SAR Test									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Rear	0	3 500.01	6.98	7.00	1.005	0.918	0.923	

5G NR n77 SRS #2(PC 2 upper)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Rear	0	3 750.0	6.88	7.00	1.028	0.728	0.748	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset		0	3 930.0	6.83	7.00	1.040	0.763	0.794	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 750.0	6.85	7.00	1.035	0.745	0.771	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3 930.0	6.91	7.00	1.021	0.781	0.797	37
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3 930.0	4.90	5.50	1.148	0.639	0.734	

5G NR n77 SRS #3(PC 2 lower)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Rear	0	3500.01	10.93	11.00	1.016	0.483	0.491	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3500.01	10.91	11.00	1.021	0.528	0.539	38
CP-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 1offset		0	3500.01	8.88	9.50	1.153	0.220	0.254	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Right	0	3500.01	10.93	11.00	1.016	0.037	0.038	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3500.01	10.91	11.00	1.021	0.049	0.050	

5G NR n77 SRS #3(PC 2 upper)

Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Rear	0	3930.00	10.95	11.00	1.012	0.434	0.439	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3930.00	10.86	11.00	1.033	0.447	0.462	39
CP-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3930.00	8.64	9.50	1.219	0.215	0.262	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 1RB 137offset	Right	0	3930.00	10.95	11.00	1.012	0.087	0.088	
DFT-S-OFDM_QPSK SCS 30 kHz_100 MHz 135RB 69offset		0	3930.00	10.86	11.00	1.033	0.088	0.091	

WLAN 2.4 GHz

Ant./ Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.1 802.11b	Grip Sensor Off									
	Rear	15	2 462.0	18.18	19.00	1.208	1.012	0.079	0.097	
	Left	9	2 462.0	18.18	19.00	1.208	1.012	0.073	0.089	
	Top	0	2 462.0	18.18	19.00	1.208	1.012	0.023	0.028	
	Grip Sensor On									
	Rear	0	2 462.0	10.14	10.50	1.086	1.012	0.439	0.482	40
MIMO 802.11b	Grip Sensor Off									
	Rear	14	2 462.0	17.72	19.00	1.343	1.013	0.510	0.694	
	Left	9	2 462.0	17.72	19.00	1.343	1.013	0.249	0.339	
	Top	12	2 462.0	17.72	19.00	1.343	1.013	0.092	0.125	
	Grip Sensor On									
	Rear	0	2 462.0	9.63	10.50	1.222	1.013	0.606	0.750	41
Left	0	2 462.0	9.63	10.50	1.222	1.013	0.209	0.259		
Top	0	2 462.0	9.63	10.50	1.222	1.013	0.090	0.111		

U-NII-2A

Ant./ Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.2 802.11a	Grip Sensor Off									
	Rear	14	5 260.0	16.51	17.00	1.119	1.070	0.183	0.219	
	Left	0	5 260.0	16.51	17.00	1.119	1.070	0.069	0.083	
	Top	12	5 260.0	16.51	17.00	1.119	1.070	0.104	0.125	
	Grip Sensor On									
	Rear	0	5 260.0	5.82	6.50	1.169	1.070	0.426	0.533	42
MIMO 802.11a	Grip Sensor Off									
	Rear	14	5 320.0	16.17	17.00	1.211	1.063	0.369	0.475	
	Left	9	5 320.0	16.17	17.00	1.211	1.063	0.287	0.369	
	Top	12	5 320.0	16.17	17.00	1.211	1.063	0.120	0.154	
	Grip Sensor On									
	Rear	0	5 320.0	5.75	6.50	1.189	1.063	0.526	0.665	43
Left	0	5 320.0	5.75	6.50	1.189	1.063	0.080	0.101		
Top	0	5 320.0	5.75	6.50	1.189	1.063	0.147	0.186		

U-NII-2C

Ant./ Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.2 802.11a	Grip Sensor Off									
	Rear	14	5 500.0	16.69	17.00	1.074	1.070	0.390	0.448	
	Left	0	5 500.0	16.69	17.00	1.074	1.070	0.145	0.167	
	Top	12	5 500.0	16.69	17.00	1.074	1.070	0.180	0.207	
	Grip Sensor On									
	Rear	0	5 620.0	6.09	6.50	1.099	1.070	0.382	0.449	44
MIMO 802.11a	Grip Sensor Off									
	Rear	14	5 620.0	15.38	17.00	1.452	1.063	0.566	0.874	
	Rear	14	5 500.0	15.26	17.00	1.493	1.063	0.519	0.824	
	Left	9	5 620.0	15.38	17.00	1.452	1.063	0.371	0.573	
	Top	12	5 620.0	15.38	17.00	1.452	1.063	0.195	0.301	
	Grip Sensor On									
	Rear	0	5 620.0	5.73	6.50	1.194	1.063	0.980	1.244	45
	Rear	0	5 500.0	4.93	6.50	1.435	1.063	0.681	1.039	
	Rear	0	5 720.0	4.54	6.50	1.570	1.063	0.668	1.115	
	Left	0	5 620.0	5.73	6.50	1.194	1.063	0.079	0.100	
	Top	0	5 620.0	5.73	6.50	1.194	1.063	0.143	0.181	
	Repeated SAR Test									
	Rear	0	5 620.0	5.73	6.50	1.194	1.063	0.975	1.237	
	Additional SAR Test(With Keyboard Cover & S-pen)									
Rear	0	5 620.0	5.73	6.50	1.194	1.063	0.581	0.737		

U-NII-3

Ant./ Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.2 802.11a	Grip Sensor Off									
	Rear	14	5 825.0	15.02	15.50	1.117	1.070	0.425	0.508	46
	Left	0	5 825.0	15.02	15.50	1.117	1.070	0.149	0.178	
	Top	12	5 825.0	15.02	15.50	1.117	1.070	0.194	0.232	
	Grip Sensor On									
	Rear	0	5 745.0	5.92	6.50	1.143	1.070	0.342	0.418	
MIMO 802.11a	Grip Sensor Off									
	Rear	14	5 825.0	14.94	15.50	1.138	1.063	0.384	0.465	
	Left	9	5 825.0	14.94	15.50	1.138	1.063	0.203	0.246	
	Top	12	5 825.0	14.94	15.50	1.138	1.063	0.221	0.267	
	Grip Sensor On									
	Rear	0	5 825.0	5.41	6.50	1.285	1.063	0.798	1.090	47
		0	5 745.0	5.29	6.50	1.321	1.063	0.740	1.039	
	Left	0	5 825.0	5.41	6.50	1.285	1.063	0.066	0.090	
Top	0	5 825.0	5.41	6.50	1.285	1.063	0.254	0.347		



Bluetooth										
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.1 BDR DH5	Grip Sensor Off									
	Rear	15	2 480.0	16.55	17.00	1.109	1.302	0.090	0.130	
	Left	9	2 480.0	16.55	17.00	1.109	1.302	0.027	0.039	
	Top	0	2 480.0	16.55	17.00	1.109	1.302	0.006	0.009	
	Grip Sensor On									
	Rear	0	2 480.0	12.39	13.00	1.151	1.302	0.646	0.968	
		0	2 402.0	11.85	13.00	1.303	1.302	0.657	1.115	48
		0	2 441.0	10.88	12.00	1.294	1.302	0.590	0.994	
	Left	0	2 480.0	12.39	13.00	1.151	1.302	0.194	0.291	

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings and the standard batteries are the only options.
4. Liquid tissue depth was at least 15 cm.
5. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
6. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
7. This device utilizes power reduction for some wireless modes, as outlined in Section 2.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
8. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
9. Accessories(Keyboard Cover + S-pen) were verified under the worst configuration RF exposure condition.

WCDMA Notes:

1. UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).



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LTE Notes:

1. Justification Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
2. When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
3. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
4. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
5. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
6. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator.
7. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
8. TDD LTE was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub-frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
9. For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

5G NR Notes:

1. NR Bands support SA and NSA modes. NR Bands in EN-DC mode operates with the LTE Bands shown in the 5G NR Information acting as anchor bands.
2. More detailed specifications of the NR bands are contained in the Operation description document.
3. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report.

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WLAN & Bluetooth Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4GHz WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement.
SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to 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.
2. The device was 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. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
3. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.
4. When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is ≤ 1.2 W/kg, SAR is not required for UNII band1 > 1.2 W/kg, both bands should be tested independently for SAR.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. This device supports 2X2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC, 802.11n/ac/ax supports SDM. WLAN MIMO evaluation was applied conservatively.

