FCC SAR Test Report

FCC ID: XMR2023RM520NGLM

Report No.	:	BTL-FCC SAR-2-2311T076
Equipment	:	5G Sub-6 GHz M.2 Module
Model Name	:	RM520N-GL
Brand Name	:	Quectel
Applicant	:	Quectel Wireless Solutions Co., Ltd.
Address	:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Radio Function	:	WLAN 2.4G, WLAN 5G, WLAN 6G, Bluetooth, WCDMA Band II, IV, V , LTE Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 42, 43, 48 66, 71 and NR Band 2, 5, 7, 12, 13, 14, 25, 26, 30, 38, 41, 48, 66, 70, 71, 77, 78
Standard(s)	:	**KDB447498 D04** Interim General RF Exposure Guidance v01 **KDB865664 D01** SAR measurement 100 MHz to 6 GHz v01r04 **KDB865664 D02** SAR Reporting v01r02 **KDB616217 D04** SAR for laptop and Tablets **KDB248227 D01** 802.11 Wi-Fi SAR v02r02 **KDB941225 D01** 3G SAR Procedures v03r01 **KDB941225 D05** SAR for LTE Devices v02r05 **FCC§2.1093** Radiofrequency radiation exposure evaluation: portable devices **IEEE C95.1:2019** Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz. **IEEE Std 1528:2013** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
Date of Receipt	:	Nov. 16, 2023
Date of Test	:	Dec. 12, 2023 ~ Jan. 2, 2024
Issued Date	:	Mar. 18, 2024

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2024/1/22
R01	Add NFC RF Exposure Note in section 2.4.	2024/2/21
R02	Add 5G NR n77/78 Note & P-Sensor Note.	2024/3/4
R03	Add Simultaneous transmission conditions	2024/3/15
R04	Revise Host device and antenna parts number	2024/3/18

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Equipment	5G Sub-6 GHz M.2 Module		
Model Name	RM520N-GL		
Brand Name	Quectel		
Host device information			
Equipment	Notebook Computer		
Model Name	TP00160A		
Brand Name	Lenovo		
Power Rating	Brand : Lenovo Model : ADLX65YSDC2A Input : 100-240A~1.8A 50-60Hz Output : 20.0VDC 3.25A 65.0W / 15.0VDC 3.0A / 9.0VDC 3.0A / 5.0VDC 3.0A 15.0W		
Battery Information	Brand : Lenovo Model : L23C4P72 Rating :15.44V / 5420mAh / 86Wh		
WLAN Module	Intel® / AX211D2W / BE200D2W		
WWAN Module	Quectel / RM520N-GL		
NFC Module	FOXCONN / T77H747		
Operation Frequency	Function	Band	Frequency (MHz)
	WiFi	2.4G	TX : 2412 - 2472
		5G_UNII 1	TX : 5180 - 5240
		5G_UNII 2a	TX : 5250 - 5350
		5G_UNII 2c	TX : 5500 - 5700
		5G_UNII 3	TX : 5745 - 5825
		5G_UNII 4	TX : 5850 - 5895
		6G_UNII 5	TX : 5925 - 6425
		6G_UNII 6	TX : 6425 – 6525
		6G_UNII 7	TX : 6525 – 6875
		6G_UNII 8	TX : 6875 – 7125
	Bluetooth	Basic Rate (BR)	TX : 2402 - 2480
		Enhance Data Rate	TX : 2402 - 2480
		Bluetooth Low Energy	TX : 2402 - 2480

	Function	Band	Frequency (MHz)
Operation Frequency	WCDMA	UMTS Band II	TX : 1850 - 1910
		UMTS Band IV	TX : 1710 - 1755
		UMTS Band V	TX : 824 - 849
	LTE	LTE Band 2	TX : 1850 - 1910
		LTE Band 4	TX : 1710 - 1755
		LTE Band 5	TX : 824 - 849
		LTE Band 7	TX : 2500 - 2570
		LTE Band 12	TX : 699 - 716
		LTE Band 13	TX : 777 - 787
		LTE Band 14	TX : 788 - 798
		LTE Band 17	TX : 704 - 716
		LTE Band 25	TX : 1850 - 1915
		LTE Band 26	TX : 814 - 849
		LTE Band 30	TX : 2305 - 2315
		LTE Band 38	TX : 2570 - 2620
		LTE Band 41	TX : 2496 - 2690
		LTE Band 42	TX : 3400 - 3600
		LTE Band 43	TX : 3600 - 3800
		LTE Band 48	TX : 3550 - 3700
		LTE Band 66	TX : 1710 - 1780
		LTE Band 71	TX : 663 - 698
	NR	NR Band 2	TX : 1850 - 1910
		NR Band 5	TX : 824 - 849
		NR Band 7	TX : 2500 - 2570
		NR Band 12	TX : 699 - 716
		NR Band 13	TX : 777 - 787
		NR Band 14	TX : 788 - 798
		NR Band 25	TX : 1850 - 1915
		NR Band 26	TX : 814 - 849
		NR Band 30	TX : 2305 - 2315
		NR Band 38	TX : 2570 - 2620
		NR Band 41	TX : 2496 - 2690
		NR Band 48	TX : 3550 - 3700
		NR Band 66	TX : 1710 - 1780
		NR Band 70	TX : 1695 - 1710
		NR Band 71	TX : 663 - 698
		NR Band 77	TX : 3300 - 4200
		NR Band 78	TX : 3300 - 3800
Test Model	TP00160A		
Sample Status	Engineering Sample		
EUT Modification(s)	N/A		

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCC SAR-2-2311T076) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF SAR MEASUREMENT

2.1. TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.
The test facilities used to collect the test data in this report is SAR Test room at the location of No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan.
(FCC DN: TW0659)

☒ SAR 01 ☒ SAR 02 ☐ SAR 03

2.2. MEASUREMENT UNCERTAINTY

Uncertainty Budget for Frequency range of 300 MHz to 3 GHz

Error Description	Uncertainty Value (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi V_{eff}
Measurement System								
Probe Calibration	6.0	Normal	1	1	1	± 6.0 %	± 6.0 %	∞
Axial Isotropy	4.7	Rectangular	$\sqrt{3}$	0.7	0.7	± 1.9 %	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	$\sqrt{3}$	0.7	0.7	± 3.9 %	± 3.9 %	∞
Boundary Effects	1	Rectangular	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	∞
Linearity	4.7	Rectangular	$\sqrt{3}$	1	1	± 2.7 %	± 2.7 %	∞
Detection Limits	1	Rectangular	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	∞
Modulation response	2.4	Rectangular	$\sqrt{3}$	1	1	± 1.4 %	± 1.4 %	∞
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %	∞
Response Time	0.8	Rectangular	$\sqrt{3}$	1	1	± 0.5%	± 0.5 %	∞
Integration Time	2.6	Rectangular	$\sqrt{3}$	1	1	± 1.5 %	± 1.5 %	∞
RF Ambient – Noise	3	Rectangular	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
RF Ambient– Reflections	3	Rectangula	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
Probe Positioner	0.02	Rectangular	$\sqrt{3}$	1	1	± 0.0 %	± 0.0 %	∞
Probe Positioning	0.4	Rectangular	$\sqrt{3}$	1	1	± 0.2 %	± 0.2 %	∞
Max.SAR Evaluation	2	Rectangular	$\sqrt{3}$	1	1	± 1.2 %	± 1.2 %	∞
Test Sample Related								
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %	145
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %	5
Power Drift	5.0	Rectangular	$\sqrt{3}$	1	1	± 2.9 %	± 2.9 %	∞
Phantom and Setup								
Phantom Production Tolerances	6.1	Rectangular	$\sqrt{3}$	1	1	± 3.5 %	± 3.5 %	∞
SAR correction	1.9	Rectangular	$\sqrt{3}$	1	0.84	± 1.9 %	± 1.6 %	
Liquid Conductivity (mea.)	2.5	Rectangular	$\sqrt{3}$	0.78	0.71	± 2.0 %	± 1.8 %	∞
Liquid Permittivity (mea.)	2.5	Rectangular	$\sqrt{3}$	0.26	0.26	± 0.6 %	± 0.7 %	∞
Temp. unc. - Conductivity	3.4	Rectangular	$\sqrt{3}$	0.78	0.71	± 1.5 %	± 1.4 %	∞
Temp. unc. - Permittivity	0.4	Rectangular	$\sqrt{3}$	0.23	0.26	± 0.1 %	± 0.1 %	∞
Combined Standard Uncertainty (K = 1)						± 11.28 %	± 11.19 %	361
Expanded Uncertainty (K = 2)						**± 22.56 %**	**± 22.37 %**	

Uncertainty Budget for Frequency range of 3 GHz to 6 GHz

Error Description	Uncertainty Value (± %)	Probability Distribution	Divisor	Ci (1g)	Ci (10g)	Standard Uncertainty (1g)	Standard Uncertainty (10g)	Vi V_{eff}
Measurement System								
Probe Calibration	7.00	Normal	1	1	1	± 7.0 %	± 7.00 %	∞
Axial Isotropy	4.7	Rectangular	$\sqrt{3}$	0.7	0.7	± 1.9 %	± 1.9 %	∞
Hemispherical Isotropy	9.6	Rectangular	$\sqrt{3}$	0.7	0.7	± 3.9 %	± 3.9 %	∞
Boundary Effects	2	Rectangular	$\sqrt{3}$	1	1	± 1.2 %	± 1.2 %	∞
Linearity	4.7	Rectangular	$\sqrt{3}$	1	1	± 2.7 %	± 2.7 %	∞
Detection Limits	1	Rectangular	$\sqrt{3}$	1	1	± 0.6 %	± 0.6 %	∞
Modulation response	2.4	Rectangular	$\sqrt{3}$	1	1	±1.4 %	±1.4 %	∞
Readout Electronics	0.3	Normal	1	1	1	± 0.3 %	± 0.3 %	∞
Response Time	0.8	Rectangular	$\sqrt{3}$	1	1	± 0.5%	± 0.5 %	∞
Integration Time	2.6	Rectangular	$\sqrt{3}$	1	1	± 1.5 %	± 1.5 %	∞
RF Ambient – Noise	3	Rectangular	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
RF Ambient– Reflections	3	Rectangular	$\sqrt{3}$	1	1	± 1.7 %	± 1.7 %	∞
Probe Positioner	0.04	Rectangular	$\sqrt{3}$	1	1	± 0.0 %	± 0.0 %	∞
Probe Positioning	0.8	Rectangular	$\sqrt{3}$	1	1	± 0.5 %	± 0.5 %	∞
Max.SAR Evaluation	4	Rectangular	$\sqrt{3}$	1	1	± 2.3 %	± 2.3 %	∞
Test Sample Related								
Device Positioning	2.9	Normal	1	1	1	± 2.9 %	± 2.9 %	145
Device Holder	3.6	Normal	1	1	1	± 3.6 %	± 3.6 %	5
Power Drift	5.0	Rectangular	$\sqrt{3}$	1	1	± 2.9 %	± 2.9 %	∞
Phantom and Setup								
Phantom Production Tolerances	6.6	Rectangular	$\sqrt{3}$	1	1	± 3.8 %	± 3.8 %	∞
SAR correction	1.9	Rectangular	$\sqrt{3}$	1	0.84	± 1.9 %	± 1.6 %	
Liquid Conductivity (mea.)	2.5	Rectangular	$\sqrt{3}$	0.78	0.71	± 2.0 %	± 1.8 %	∞
Liquid Permittivity (mea.)	2.5	Rectangular	$\sqrt{3}$	0.26	0.26	± 0.6 %	± 0.7 %	∞
Temp. unc. - Conductivity	3.4	Rectangular	$\sqrt{3}$	0.78	0.71	± 1.5 %	± 1.4 %	∞
Temp. unc. - Permittivity	0.4	Rectangular	$\sqrt{3}$	0.23	0.26	± 0.1 %	± 0.1 %	∞
Combined Standard Uncertainty (K = 1)						± 12.14 %	± 12.06 %	361
Expanded Uncertainty (K = 2)						**± 24.28 %**	**± 24.12 %**	

2.3. Antenna Information

For WLAN

Antenna	Manufacture	Part Number	Type	Frequency Range (MHz)	Gain (dBi)
Main	Luxshare-ICT	DC330022B00	PIFA	2400-2483.5	1.13
				5150-5250	2.48
				5250-5350	2.48
				5470-5725	3.11
				5725-5825	3.03
				5850-5895	1.85
				5925-6425	2.22
				6425-6525	1.95
				6525-6875	1.42
				6875-7125	1.13
Aux	Luxshare-ICT	DC330022B00	PIFA	2400-2483.5	1.26
				5150-5250	2.68
				5250-5350	2.14
				5470-5725	3.05
				5725-5825	3.05
				5850-5895	2.21
				5925-6425	3.37
				6425-6525	3.37
				6525-6875	3.32
				6875-7125	2.11

Antenna	Manufacture	Part Number	Type	Frequency Range (MHz)	Gain (dBi)
Main	SPEEDWIRE	DC330022J00	PIFA	2400-2483.5	1.13
				5150-5250	2.48
				5250-5350	2.48
				5470-5725	3.11
				5725-5850	3.03
				5850-5895	1.85
				5925-6425	2.22
				6425-6525	1.95
				6525-6875	1.42
				6875-7125	1.13
Aux	SPEEDWIRE	DC330022J00	PIFA	2400-2483.5	1.26
				5150-5250	2.68
				5250-5350	2.14
				5470-5725	3.05
				5725-5850	3.05
				5850-5895	2.21
				5925-6425	3.37
				6425-6525	3.37
				6525-6875	3.32
				6875-7125	2.11

For WWAN

Antenna	Manufacture	P/N	Type	Gain (dBi)	Note
Main	Luxshare-ICT	DC330022C00	PIFA	-2.96	UMTS-Band II
				-0.06	UMTS-Band IV
				-1.59	UMTS-Band V
				-2.96	LTE/NR Band 2
				-0.06	LTE Band 4
				-1.59	LTE/NR Band 5
				-2.97	LTE/NR Band 7
				-1.00	LTE/NR Band 12
				-3.31	LTE/NR Band 13
				-3.93	LTE/NR Band 14
				-1.23	LTE Band 17
				-2.88	LTE/NR Band 25
				-1.64	LTE/NR Band 26
				0.73	LTE/NR Band 30
				-3.39	LTE/NR Band 38
				-0.82	LTE/NR Band 41
				0.95	LTE Band 42
				0.95	LTE Band 43
				0.83	LTE/NR Band 48
				-0.06	LTE/NR Band 66
				-0.41	LTE/NR Band 71
				-0.10	NR Band 77
				0.83	NR Band 78
Aux	Luxshare-ICT	DC330022D00	PIFA	-	RX only
MIMO1	Luxshare-ICT	DC330022C00	PIFA	-	RX only
MIMO2	Luxshare-ICT	DC330022D00	PIFA	0.51	LTE Band 42
				0.22	LTE Band 43
				1.01	NR Band 38
				0.87	NR Band 41
				0.22	NR Band 48
				1.81	NR Band 70
				-0.19	NR Band 77
				0.22	NR Band 78

Antenna	Manufacture	P/N	Type	Gain (dBi)	Note
Main	SPEEDWIRE	DC330022J10	PIFA	-2.96	UMTS-Band II
				-0.06	UMTS-Band IV
				-1.59	UMTS-Band V
				-2.96	LTE/NR Band 2
				-0.06	LTE Band 4
				-1.59	LTE/NR Band 5
				-2.97	LTE/NR Band 7
				-1.00	LTE/NR Band 12
				-3.31	LTE/NR Band 13
				-3.93	LTE/NR Band 14
				-1.23	LTE Band 17
				-2.88	LTE/NR Band 25
				-1.64	LTE/NR Band 26
				0.73	LTE/NR Band 30
				-3.39	LTE/NR Band 38
				-0.82	LTE/NR Band 41
				0.95	LTE Band 42
				0.95	LTE Band 43
				0.83	LTE/NR Band 48
				-0.06	LTE/NR Band 66
				-0.41	LTE/NR Band 71
				-0.10	NR Band 77
				0.83	NR Band 78
Aux	SPEEDWIRE	DC330022J20	PIFA	-	RX only
MIMO1	SPEEDWIRE	DC330022J10	PIFA	-	RX only
MIMO2	SPEEDWIRE	DC330022J20	PIFA	0.51	LTE Band 42
				0.22	LTE Band 43
				1.01	NR Band 38
				0.87	NR Band 41
				0.22	NR Band 48
				1.81	NR Band 70
				-0.19	NR Band 77
				0.22	NR Band 78

Note:
The above Antenna information are derived from the antenna data sheet provided by manufacturer and for mo re detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be he ld responsible.

2.4. The Maximum SAR 1g Values

Mode	Distance(mm)	Highest Body Reported SAR-1g(W/kg)
UMTS Band II	0	0.917
UMTS Band IV	0	1.123
UMTS Band V	0	0.967
LTE Band 2	0	0.828
LTE Band 4	0	0.957
LTE Band 5	0	0.862
LTE Band 7	0	1.015
LTE Band 12	0	0.858
LTE Band 13	0	0.980
LTE Band 14	0	0.955
LTE Band 17	0	0.832
LTE Band 25	0	0.791
LTE Band 26	0	0.812
LTE Band 30	0	1.110
LTE Band 38	0	0.847
LTE Band 41	0	0.812
LTE Band 42	0	0.421
LTE Band 43	0	0.361
LTE Band 48	0	0.330
LTE Band 66	0	1.115
LTE Band 71	0	0.738
NR Band 2	0	0.895
NR Band 5	0	0.804
NR Band 7	0	0.900
NR Band 12	0	0.748
NR Band 13	0	0.782
NR Band 14	0	1.128
NR Band 25	0	0.844
NR Band 26	0	0.871
NR Band 30	0	1.159
NR Band 38	0	0.576
NR Band 41	0	0.794
NR Band 48	0	0.743
NR Band 66	0	1.022
NR Band 70	0	1.133
NR Band 71	0	0.870
NR Band 77/78	0	0.799

Note:

1) The device is in compliance with Specific Absorption Rate(SAR)for general population uncontrolled exposure limits according to the FCC rule §2.1093, the ANSI C95.1:2019/IEEE C95.1:2019, the NCRP Report Number 86 for uncontrolled environment and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528:2013.
2) This NFC FCC ID: MCLT77H747 RF Exposure was address in report no.: SFBHQC-WTW-P22070414A and 1mW exemption is applicable for the NFC transmitter and cannot use estimated SAR for Sim-Tx analysis.
3) NR Band 77 (3450 ~ 3550 MHz and3700 ~ 3980 MHz) overlaps the entire frequency range of NR Band 78 (3450 ~ 3550 MHz and3700 ~ 3800 MHz). Therefore, test data provided in this report covers Band 77 as well as Band 78.

2.5. Laboratory Environment

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

2.6. Main Test Instruments

Item	Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Interval
1	DASY5	Speag	DASY 5(Version 52.10.4.1535)	N/A	N/A	N/A
2	Data Acquisition Electronics	Speag	DAE4	1289	Jun. 16, 2023	1 Year
3	Data Acquisition Electronics	Speag	DAE4	1486	Jun. 16, 2023	1 Year
4	E-field Probe	Speag	EX3DV4	7369	May. 22, 2023	1 Year
5	E-field Probe	Speag	EX3DV4	7678	Aug. 17, 2023	1 Year
6	System Validation Dipole	Speag	D750V3	1145	May. 27, 2022	3 Year
7	System Validation Dipole	Speag	D835V2	4d084	Apr. 13, 2021	3 Year
8	System Validation Dipole	Speag	D1800V2	2d210	May. 30, 2022	3 Year
9	System Validation Dipole	Speag	D1900V2	5d208	May. 23, 2022	3 Year
10	System Validation Dipole	Speag	D2300V2	1054	May. 25, 2022	3 Year
11	System Validation Dipole	Speag	D2600V2	1111	May. 25, 2022	3 Year
12	System Validation Dipole	Speag	D3500V2	1096	Aug. 15, 2023	3 Year
13	System Validation Dipole	Speag	D3700V2	1065	Aug. 15, 2023	3 Year
14	System Validation Dipole	Speag	D3900V2	1040	Aug. 15, 2023	3 Year
15	ELI4 Phantom	Speag	ELI4 Phantom V8.0	2149	N/A	N/A
16	ELI4 Phantom	Speag	ELI4 Phantom V5.0	1240	N/A	N/A
17	ENA Network Analyzer	Agilent	E5071C	MY46524658	Mar. 17, 2023	1 Year
18	Signal Generator	R&S	SMR40	100502	Feb. 23, 2023	1 Year
19	Spectrum Analyzer	R&S	FSV7	103032	Aug. 10, 2023	1 Year
20	Power Meter	Anritsu	ML2495A	1128008	May. 12, 2023	1 Year
21	Power Sensor	Anritsu	MA2411B	1126001	May. 12, 2023	1 Year
22	Dielectric Probe Kit	Agilent	85070E	2593	N/A	N/A
23	Low pass filter	Mini-Circuits	SLP-2950+	M108294	N/A	N/A
24	Power Amplifier	Mini-Circuits	ZVE-2W-272+	N650001538	N/A	N/A
25	Power Amplifier	Mini-Circuits	ZVE-8G+	N628801631	N/A	N/A
26	Power Amplifier	EMCI	EMC053035	980869	N/A	N/A
27	Thermometer	PA	TA298	h001	Mar. 21, 2023	1 Year
28	Directional Coupler	Woken	50W Coupler	DOM5CIW3E2	N/A	N/A
29	Attenuator	Woken	WATT-518FS-10	N/A	N/A	N/A

Remark: “N/A” denotes no model name, serial No. or calibration specified.

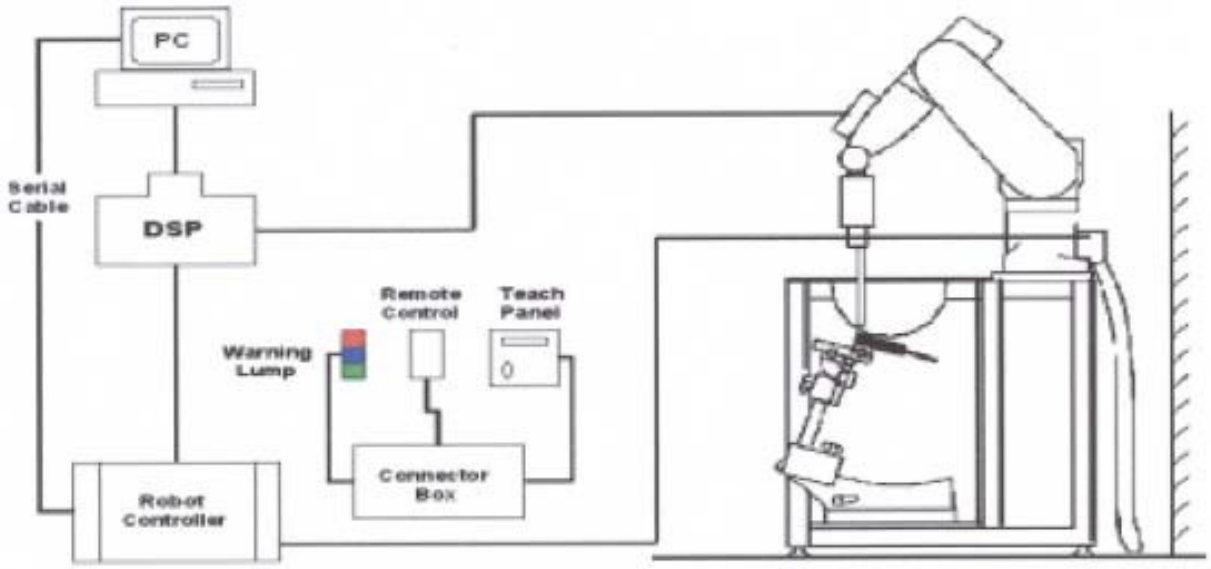
3. SAR MEASUREMENTS SYSTEM CONFIGURATION

3.1. SAR Measurement Setup

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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

3.1.1. TEST SETUP LAYOUT

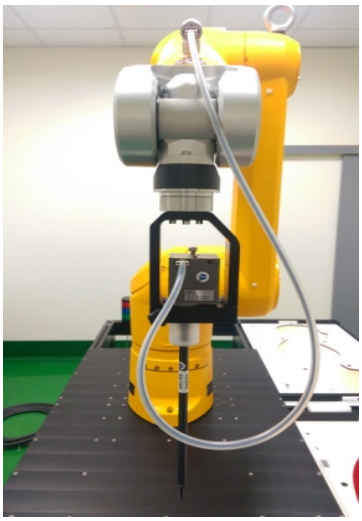


3.2. DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

3.2.1. EX3DV4 PROBE SPECIFICATION

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.0 mm



EX3DV4 E-field Probe

3.2.2. E-FIELD PROBE CALIBRATION

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than ±10%. The spherical isotropy was evaluated and found to be better than ± 0.25dB. The sensitivity parameters (NormX, NormY, NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies bellow 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$\mathbf{SAR} = \mathbf{C}\frac{\Delta T}{\Delta t}$$

Where: Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

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

Where: σ = Simulated tissue conductivity,

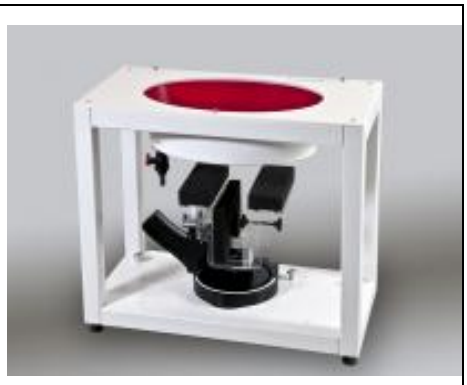
ρ = Tissue density (kg/m3).

3.2.3. OTHER TEST EQUIPMENT

3.2.3.1. DEVICE HOLDER FOR TRANSMITTERS

Construction: Simple but effective and easy-to-use extension for Mounting Device that facilitates the testing of larger devices according to IEC 62209-2 (e.g., laptops, cameras, etc.) It is lightweight and fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin SAM, ELI4 and SAM v6.0 Phantoms.
Material: POM, Acrylic glass, Foam

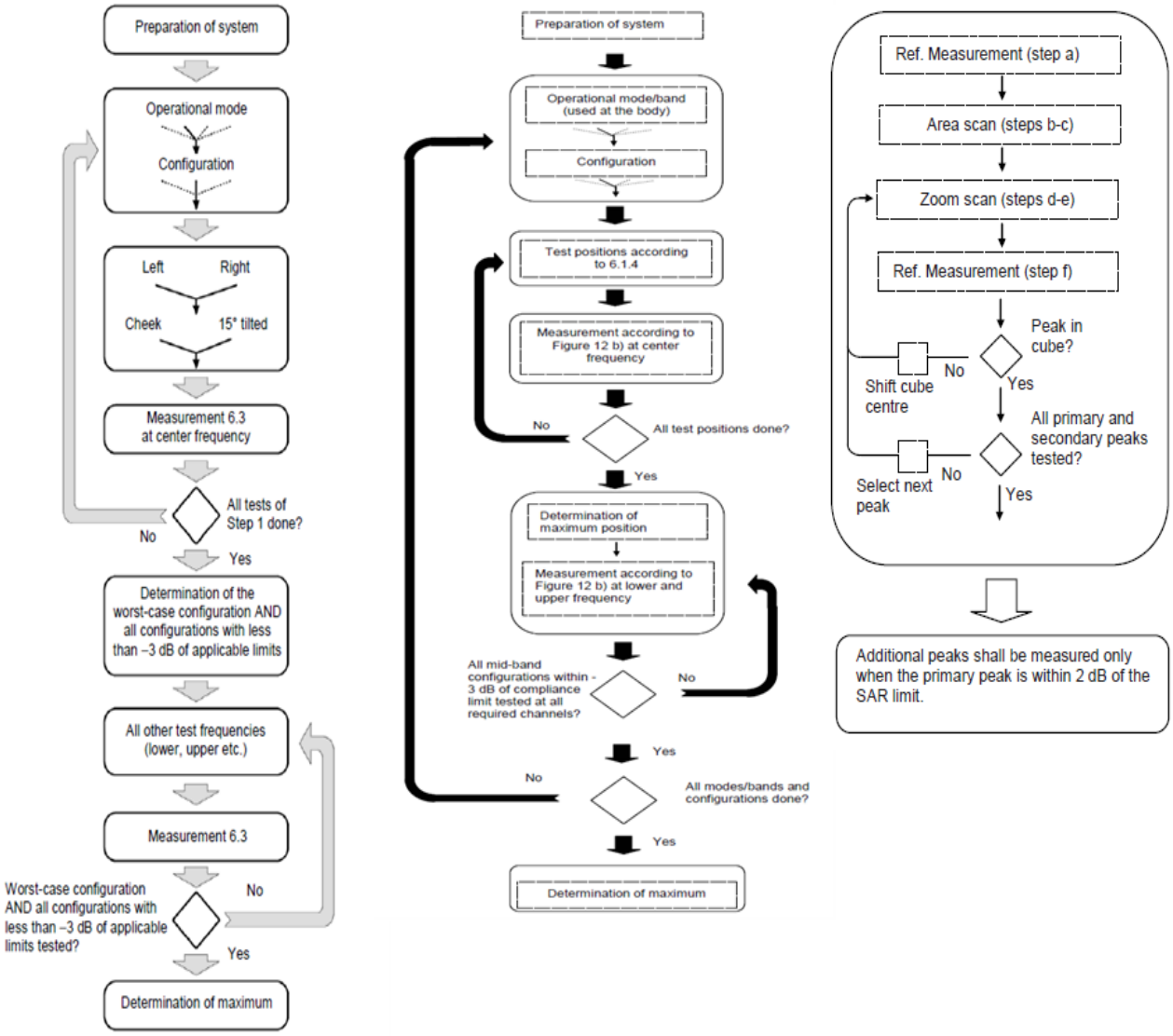
3.2.3.2. PHANTOM

Model	ELI4 Phantom	
Construction	Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2±0.1 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Length: 600 mm ; Width: 190mm Height: adjustable feet	
Aailable	Special	

Model	Twin SAM	
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length:1000mm; Width: 500mm Height: adjustable feet	
Aailable	Special	

3.2.4. SCANNING PROCEDURE

The SAR test against the head and body-worn phantom was carried out as follow:



After an area scan has been done at a fixed distance of 1.4mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE1528 standard.

This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.

3.2.5. DATA STORAGE AND EVALUATION

3.2.5.1. DATA STORAGE

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “DAE4”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.2.6. DATA EVALUATION BY SEMCAD

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

Probe parameters:	Sensitivity	Normi, a_{i0}, a_{i1}, a_{i2}
	Conversion factor	$ConvF_i$
	Diode compression point	Dcp_i
Device parameters:	Frequency	f
	Crest factor	cf
Media parameters:	Conductivity	
	Density	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

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

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

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

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

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

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

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

With V_i = compensated signal of channel i (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i (i = x, y, z)
[mV/(V/m)^2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

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

$$E_{tot} = (E_X^2 + E_Y^2 + E_Z^2)^{1/2}$$

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

$$SAR = (E_{tot})^2 \cdot \sigma / (\rho \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m
= conductivity in [mho/m] or [Siemens/m]
= equivalent tissue density in g/cm^3

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

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

With P_{pwe} = equivalent power density of a plane wave in mW/cm^2

E_{tot} = total field strength in V/m
H_{tot} = total magnetic field strength in A/m

4. TISSUE-EQUIVALENT LIQUID

4.1. Tissue-equivalent Liquid Ingredients

The liquid is consisted of water, salt and Glycol, Sugar, Preventol and Cellulose. The liquid has previously been proven to be suited for worst-case. The measured conductivity and relative permittivity should be within ±5% of the target values. The below table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEC 62209.

Composition of the Tissue Equivalent Matter

Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono-hexylether
Head 750	0.2	-	0.2	1.5	56.0	-	42.1	-
Head 835	0.2	-	0.2	1.5	57.0	-	41.2	-
Head 1800	-	44.5	-	0.3	-	-	55.2	-
Head 1900	-	44.5	-	0.2	-	-	55.3	-
Head 2300		44.9	-	0.1	-	-	55.0	-
Head 2600	-	45.1	-	0.1	-	-	54.8	-
Head 3500	-	8.0	-	0.2	-	20.0	71.8	-

4.2. Tissue-equivalent Liquid Properties

Dielectric Performance of Tissue Simulating Liquid

Tissue Verification									
Date	Tissue Type	Frequency (MHz)	Conductivity (σ)	Permittivity (εr)	Targeted Conductivity (σ)	Targeted Permittivity (εr)	Deviation Conductivity (σ) (%)	Deviation Permittivity (εr) (%)	Limit (%) ±5
2023/12/15	Head	750	0.91	43.78	0.89	41.94	1.97	4.38	±5
2023/12/23	Head	750	0.90	43.63	0.89	41.94	1.19	4.01	±5
2023/12/16	Head	835	0.94	43.48	0.91	41.56	3.30	4.62	±5
2023/12/23	Head	835	0.90	43.09	0.91	41.56	-0.77	3.68	±5
2023/12/12	Head	1800	1.38	41.09	1.40	40.00	-1.79	2.72	±5
2023/12/25	Head	1800	1.38	41.40	1.40	40.00	-1.79	3.49	±5
2023/12/13	Head	1900	1.41	41.11	1.40	40.00	0.93	2.78	±5
2023/12/25	Head	1900	1.40	40.67	1.40	40.00	0.21	1.69	±5
2023/12/15	Head	2300	1.68	40.68	1.67	39.47	0.86	3.07	±5
2023/12/26	Head	2300	1.74	40.03	1.67	39.47	4.47	1.42	±5
2023/12/14	Head	2600	2.04	38.70	1.96	39.01	3.88	-0.80	±5
2023/12/19	Head	2600	2.03	38.58	1.96	39.01	3.37	-1.09	±5
2023/12/29	Head	2600	2.01	37.41	1.96	39.01	2.76	-4.10	±5
2024/1/2	Head	2600	2.02	40.30	1.96	39.01	3.16	3.30	±5
2023/12/22	Head	3500	2.85	36.44	2.91	37.93	-2.11	-3.93	±5
2023/12/24	Head	3500	2.80	38.40	2.91	37.93	-3.83	1.24	±5
2023/12/22	Head	3700	3.08	35.84	3.12	37.70	-1.14	-4.94	±5
2023/12/24	Head	3700	3.00	38.12	3.12	37.70	-3.64	1.11	±5
2023/12/24	Head	3900	3.22	37.78	3.32	37.47	-3.05	0.81	±5

Note:
1)The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.
2) KDB 865664 was ensured to be applied for probe calibration frequencies greater than or equal to 50MHz of the EUT frequencies.
3)The above measured tissue parameters were used in the DASY software to perform interpolation via the DASY software to determine actual dielectric parameters at the test frequencies. The SAR test plots may slightly differ from the table above since the DASY rounds to three significant digits.
4) According to FCC TCB workshop April, 2019 RF Exposure Procedures Update(Effective February 19,2019, FCC has permitted the use of single head-tissue simulating liquid specified in IEEE 62209-1- for all SAR tests.

5. SYSTEM CHECK

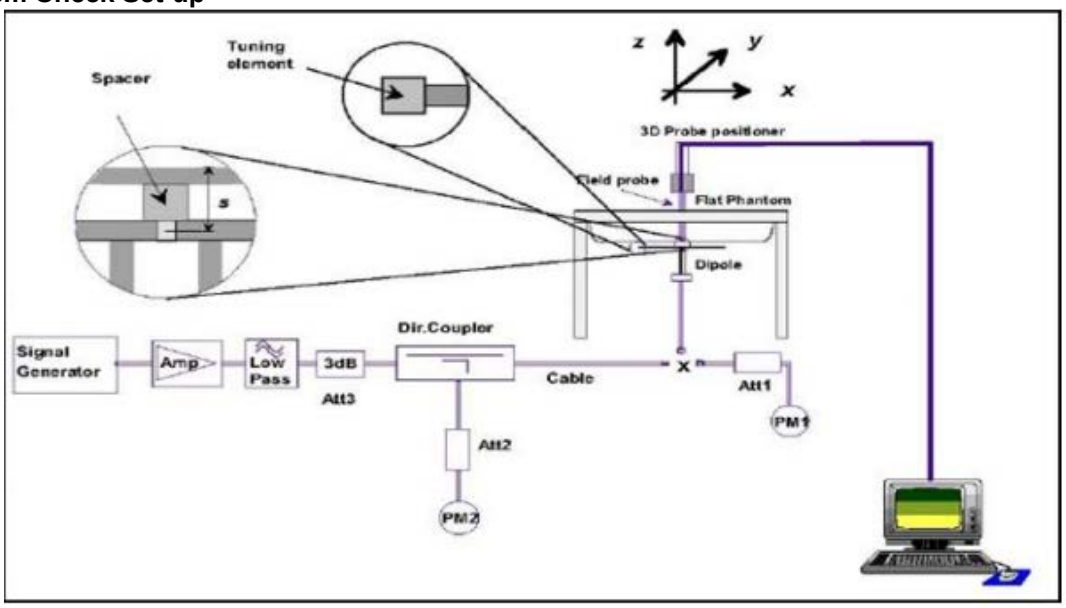
5.1. DESCRIPTION OF SYSTEM CHECK

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW(below 3GHz) or 100mW(3-6GHz), which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the 6.2.

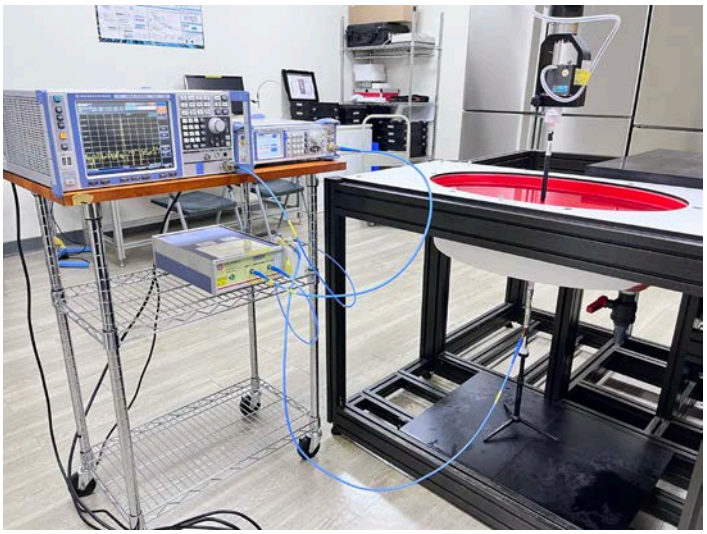
System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

System Check Set-up



System Check photo



5.2. DESCRIPTION OF SYSTEM CHECK

System Check in Tissue Simulating Liquid

The system check is performed for verifying the accuracy of the complete measurement system and performance of the software. The system check is performed with tissue equivalent material according to IEEE P1528 (described above). The following table shows system check results for all frequency bands and tissue liquids used during the tests.

Date	System Dipole			Parameters	Target [W/kg]	Measured [W/kg]	Normalized to 1W [W/kg]	Deviation [%]	Limited [%]
	Type	Serial No.	Liquid						
2023/12/15	D750V3	1145	Head	1g SAR	8.55	2.18	8.72	1.99	± 10
2023/12/23	D750V3	1145	Head	1g SAR	8.55	2.04	8.16	-4.56	± 10
2023/12/16	D835V2	4d084	Head	1g SAR	9.53	2.25	9.00	-5.56	± 10
2023/12/23	D835V2	4d084	Head	1g SAR	9.53	2.53	10.12	6.19	± 10
2023/12/12	D1800V2	2d210	Head	1g SAR	38.20	10.10	40.40	5.76	± 10
2023/12/25	D1800V2	2d210	Head	1g SAR	38.20	9.66	38.64	1.15	± 10
2023/12/13	D1900V2	5d208	Head	1g SAR	40.20	10.30	41.20	2.49	± 10
2023/12/25	D1900V2	5d208	Head	1g SAR	40.20	9.73	38.92	-3.18	± 10
2023/12/15	D2300V2	1054	Head	1g SAR	48.20	12.60	50.40	4.56	± 10
2023/12/26	D2300V2	1054	Head	1g SAR	48.20	12.20	48.80	1.24	± 10
2023/12/14	D2600V2	1111	Head	1g SAR	55.80	14.60	58.40	4.66	± 10
2023/12/19	D2600V2	1111	Head	1g SAR	55.80	14.90	59.60	6.81	± 10
2023/12/29	D2600V2	1111	Head	1g SAR	55.80	13.70	54.80	-1.79	± 10
2024/1/2	D2600V2	1111	Head	1g SAR	55.80	14.10	56.40	1.08	± 10
2023/12/22	D3500V2	1096	Head	1g SAR	66.50	6.53	65.30	-1.80	± 10
2023/12/24	D3500V2	1096	Head	1g SAR	66.50	6.71	67.10	0.90	± 10
2023/12/24	D3500V2	1096	Head	1g SAR	66.50	6.38	63.80	-4.06	± 10
2023/12/22	D3700V2	1065	Head	1g SAR	67.40	6.93	69.30	2.82	± 10
2023/12/22	D3700V2	1065	Head	1g SAR	67.40	6.61	66.10	-1.93	± 10
2023/12/24	D3700V2	1065	Head	1g SAR	65.80	6.45	64.50	-1.98	± 10
2023/12/24	D3700V2	1065	Head	1g SAR	65.80	6.76	67.60	2.74	± 10
2023/12/24	D3900V2	1040	Head	1g SAR	69.50	7.03	70.30	1.15	± 10

6. OPERATIONAL CONDITIONS DURING TEST

6.1. General Description of Test Procedures

Connection to the EUT is established via air interface with base station An, and the EUT is Set to maximum output power by base station. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. The antenna connected to the output of the base station simulator shall be placed at least 50cm away from the EUT. The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the EUT by at least 30dB.

6.2. Test position Antenna Location

6.3. Test Position of Portable Devices

For WLAN

Minimum Separation Distance			
Antenna	Position	Distance (mm)	Evaluation Test
WLAN Main	Bottom	>200	No
WLAN Aux	Bottom	>200	No

For WWAN

Minimum Separation Distance					
Mode	**Antenna**	**P-Sensor**	**Position**	**Distance (mm)**	**Evaluation Test**
WWAN	Main	on	Bottom	0.00	Yes
		off	Bottom	14.00	Yes

Note: The Antenna Support Band are shown in Section 2.3. Antenna Information.

7. SAR MEASUREMENT VARIABILITY AND UNCERTAINTY

7.1. SAR measurement variability

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

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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

The detailed repeated measurement results are shown in Section 10.1.

7.2. WCDMA Test Configuration

1. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the procedures description in section 5.2 of 3GPP TS 34.121,using the appropriate RMC or AMR with TPC(transmit power control) set to all “1s” for WCDMA/HSDPA or applying the required inner loop power control procedure to maintain maximum output power while HSUPA is active. Result for all applicable physical channel configurations(DPCCH,DPDCHn and spreading codes, HSDPA, HSPA)
Should be tabulated in the SAR report .All configuration that are not supported by the DUT or cannot be measured due to technical or equipment limitation should be clearly identified.

2. WCDMA

(1).Head SAR Measurements
SAR for Head exposure configurations in voice mode is measured using a 12.2 kbps RMC with TPC bits configured to all “1s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than ¼ dB higher than that measured in 12.2 kbps RMC. Otherwise SAR is measured on the maximum output channel in 12.2 kbps AMR with 3.4kbps SRB(signalling radio bearer) using the exposure configuration that results in the highest SAR in12.2kbps RMC for that RF channel.

(2).Body SAR Measurements
SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits configured to all “1s”. SAR for other spreading codes and multiple DPDCHn, when supported by the EUT, are not required when the maximum average outputs of each RF channel, for each spreading code and DPDCHn configuration, are less than ¼ dB higher than those measured in 12.2 kbps RMC.

3. HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements”“ procedures of 3G device. In addition, body SAR is also measured for HSDPA when the maximum average outputs of each RF channel with HSDPA active is at ¼ dB higher than that measured without HSDPA using 12.2kbps RMC or the maximum SAR 12.2kbps RMC is above 75% of the SAR limit.
Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2kbps RMC configured in Test Loop Mode 1, using the highest body SAR configuration in 12.2 kbps RMC without HSDPA.
HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when Δ ACK, Δ NACK, Δ CQI = 8. The variation of the β_c /β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test	β_c	β_d	β_d (SF)	β_c /β_d	β_{hs} (1)	CM(dB)(2)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: ΔACK, ΔNACK and ΔCQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
Note 2 : CM=1 for β_c/β_d= 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH,DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
Note 3 : For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to β_c = 11/15 and β_d = 15/15

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

Settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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

HSDPA UE category

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

4. HSUPA

SAR for Body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power is ≤¼ dB higher than the primary mode or when the SAR of the primary mode is scaled by the ratio of specified maximum output power and SAR is ≤ 75% SAR Limit, SAR measurement is not required for the secondary mode.

The 3G SAR test reduction procedures is applied to HSPA(HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

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

Subtests for WCDMA Release 6 HSUPA

WCDMA General Settings	Mode	HSPA	HSPA	HSPA	HSPA	HSPA
	Subtest	1	2	3	4	5
	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	βc	11/15	6/15	15/15	2/15	15/15
	βd	15/15	15/15	9/15	15/15	15/15
	βec	209/225	12/15	30/15	2/15	24/15
	βc/βd	11/15	6/15	9/15	2/15	15/15
	βhs	22/15	12/15	30/15	4/15	30/15
	βed	1309/225	94/75	47/15	56/75	134/15
	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0

HSUPA UE category

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

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

5. DC-HSDPA

In DC-HSDPA implementation of this device, the uplink parameters are the same as HSDPA. No additiona channels and modulations (16 QAM, and 64 QAM) are supported in uplink. The difference is only in the downlink parameters, where two carriers are supported. HSDPA settings were used on uplink.

For Rel. 8 DC-HSDPA apply the four subtests from HSDPA Release 5 except use fixed reference channe H-Set 12 for DC-HSDPA. And we can apply the same SAR test exclusion criteria used for Rel. 6 HSPA fc Rel. 7 HSPA+ and Rel. 8 DC-HSDPA. That is, if the HSPA, HSPA+, or the DC-HSDPA maximum output i not more than 0.25 dB higher than WCDMA, SAR measurement for those modes is not required.
The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0
Levels for HSDPA connection setup

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

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

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

Note:
1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.

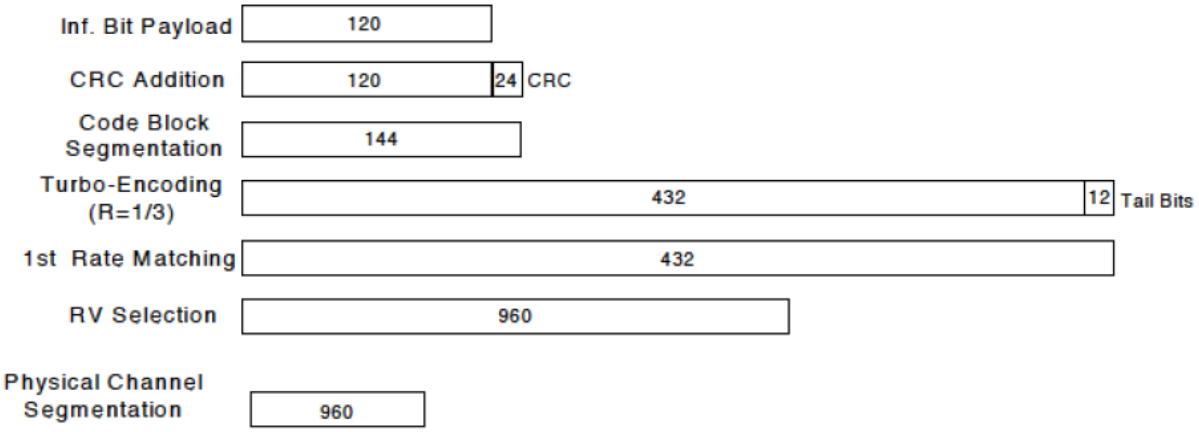


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	CM(dB)(2)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Note 2: CM=1 for β_c/β_d= 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15

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

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

7.3. LTE Test Configuration

Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR. The RS CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI(transmit time interval) supported by the device in each LTE configuration.

1)Spectrum Plots for RB configurations
A properly configured base station simulator was used for LTE output power measurements and SAR testing. Therefore, spectrum plots for RB configurations were not required to be included in this report.

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.

3)A-MPR
A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of “NS=01”on the base station simulator.

4)SAR test requirements
The LTE SAR test is choice the max power mode and start with the max power channel.
A) Largest channel bandwidth standalone SAR test requirements
i) QPSK with 1 RB allocation
When the SAR is ≤ 1 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the 10-g SAR of a required test channel is > 1.8 W/kg, SAR is required for all three RB offset configurations for that required test channel.

8. POWER REDUCTION BY PROXIMITY SENSING

A proximity sensor for power reduction is implemented in this device to address RF exposure compliance when the cellular antenna is positioned close to the user's body. The sensor's mechanical structure is designed to fit within the enclosure design used in this device and also extended around the edge and top of the antenna element in order to optimize sensitivity in these orientations. This design combines the antenna printed directly on a plastic part and proximity sensor FPC (Flexible Printed Circuit) bonded together into one piece. According to KDB 616217 D04 SAR for laptop and tablets v01r02)

8.1. procedures for detrmining proximity sensor triggering distances

The following procedures should be applied to determine proximity sensor triggering distances for the back surface and individual edges of a tablet. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing, as required by the procedures. Unless there is built-in test software that reports the triggering conditions and enables the power levels to be confirmed separately, monitoring of conducted power during the triggering tests typically requires internal access to the antenna ports inside the tablet, which may interfere with the triggering tests.

1. The relevant transmitter should be set to operate at its normal maximum output power.

2. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue-equivalent medium, and positioned at least 20 mm further than the distance that triggers power reduction.

3. It should be ensured that the cables required for power measurements are not interfering with the proximity sensor. Cable losses should be properly compensated to report the measured power results.

4. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.

5. The back surface or edge is then moved back (further away) from the phantom by at least 5 mm or until maximum output power is returned to the normal maximum level.

6. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom. If 1 mm resolution is not suitable for the sensor triggering sensitivity, a KDB inquiry should be submitted to determine alternative test configurations.

7. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.

8. The process is then reversed by moving the tablet away from the phantom according to steps 4) to 7), to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.

9. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated in the SAR report.

10. If the sensor design and implementation allow additional variations for triggering distance tolerances, multiple samples should be tested to determine the most conservative distance required for SAR evaluation.

11. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

8.2. procedures for detrmining antenna and proximity sensor coverage

The sensing regions are usually limited to areas near the sensor element. If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. The following are used to determine if additional SAR measurements may be necessary due to sensor and antenna offset. 25 These procedures do not apply and are not required for configurations where the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

1. The back surface or edge of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset. For the back surface, if the direction of maximum offset is not aligned with the tablet coordinates (physical edges) the tablet test position would not be aligned with the phantom coordinates (orientations). Each applicable tablet edge should be positioned perpendicularly to the phantom to determine sensor coverage. For antennas and/or sensors located near the corner of a tablet, both adjacent edges must be considered.

2. The similar sequence of steps applied to determine sensor triggering distance in section 6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.

3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.

4. The process is then repeated from the opposite direction, starting at the other end of the maximum antenna and sensor offset, by rotating the tablet 180° along the vertical axis.

5. The triggering points should be documented graphically, with the antenna and sensor clearly identified, along with all relevant dimensions.

If the subsequently measured peak SAR location for the antenna is not between the triggering points, established by the sensor coverage tests from opposite ends of the antenna and sensor, additional SAR tests may be required for conditions where only part of the back surface or edge of a tablet corresponding to the antenna is in proximity to the user and the sensor may not be triggering as desired. A KDB inquiry must be submitted by the test lab to determine if additional tests are required and the proper test configurations to use for testing. This may include situations where the sensor coverage region is too small for the antenna, the sensor is located too far away from the antenna, the sensor location is insufficient to cover multiple antennas or the antenna is at the corner of a tablet etc.

8.3. proximity sensor status table of trigger distance

As per the KDB 616217 D04 SAR for laptop and tablets v01r02, section 6.2, the following procedure is used to determine the triggering distances.

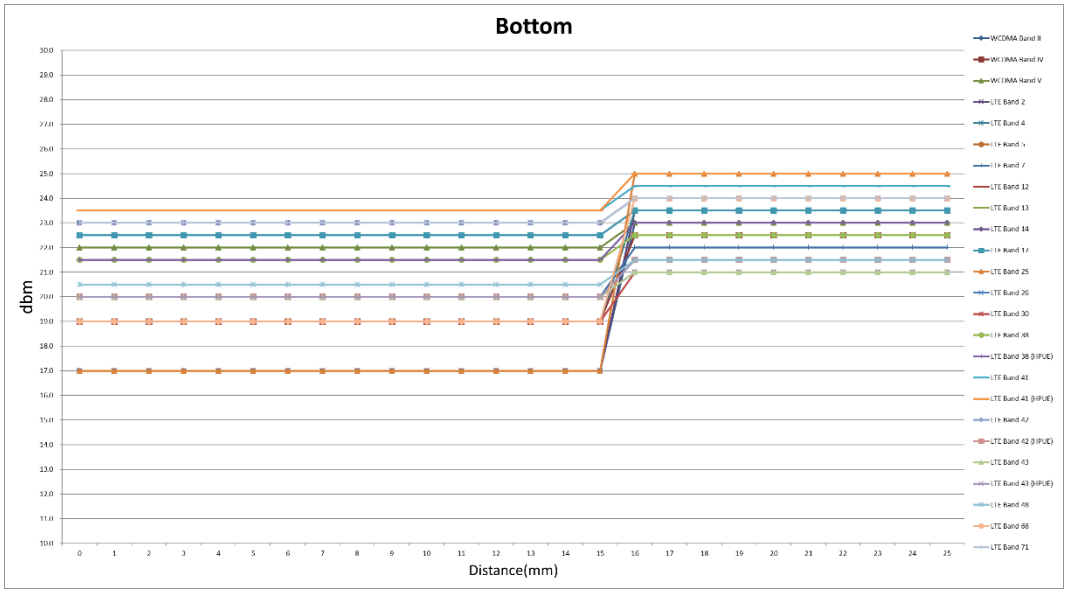
Proximity Sensor Status Table when DUT is moving towards the phantom

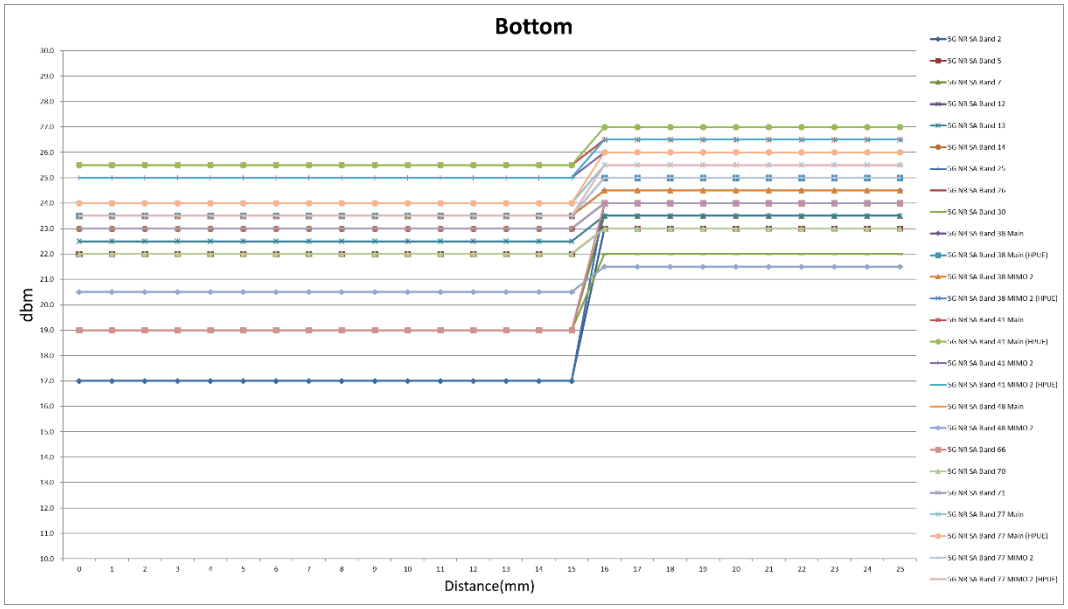
Distance to the DUT (mm)	Proximity Sensor Status – Bottom
30	OFF
27	OFF
25	OFF
24	OFF
23	OFF
22	OFF
21	OFF
20	OFF
19	OFF
18	OFF
17	OFF
16	OFF
15	ON
14	ON
13	ON
12	ON
11	ON
10	ON
9	ON
8	ON
7	ON
6	ON
5	ON
4	ON
3	ON
2	ON
1	ON
0	ON

Note: When the Sensor fails, the system output power will transmit at the lowest power.

8.4. power reduction per air-interface

The following graphs show the power level and the distance from the DUT to the flat phantom for the Bottom.





9. CONDUCTED POWER RESULTS

9.1. CONDUCTED POWER MEASUREMENTS OF UMTS Band

P-sensor off

Band	UMTS Band II Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	9262	9400	9538
Rx Channel		9661	9800	9938
Frequency		1852.4MHz	1880 MHz	1907.6 MHz
RMC 12.2K	23.00	22.67	22.50	22.83
HSDPA Subtest-1	23.00	22.46	22.32	22.68
HSDPA Subtest-2	22.50	21.96	21.82	22.18
HSDPA Subtest-3	22.00	21.46	21.32	21.68
HSDPA Subtest-4	22.00	21.46	21.32	21.68
HSUPA Subtest-1	23.00	22.58	22.43	22.81
HSUPA Subtest-2	21.00	20.58	20.43	20.81
HSUPA Subtest-3	22.00	21.58	21.43	21.81
HSUPA Subtest-4	21.00	20.58	20.43	20.81
HSUPA Subtest-5	23.00	22.58	22.43	22.81

P-sensor on

Band	UMTS Band II Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	9262	9400	9538
Rx Channel		9661	9800	9938
Frequency		1852.4 MHz	1880 MHz	1907.6 MHz
RMC 12.2K	17.00	16.88	16.99	16.97
HSDPA Subtest-1	17.00	16.84	16.89	16.82
HSDPA Subtest-2	16.50	16.39	16.43	16.36
HSDPA Subtest-3	16.00	15.92	15.95	15.90
HSDPA Subtest-4	16.00	15.87	15.91	15.84
HSUPA Subtest-1	17.00	16.84	16.90	16.81
HSUPA Subtest-2	15.00	14.83	14.88	14.80
HSUPA Subtest-3	16.00	15.85	15.91	15.82
HSUPA Subtest-4	15.00	14.88	14.93	14.86
HSUPA Subtest-5	17.00	16.80	16.85	16.77

P-sensor off

Band	UMTS Band IV Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	1312	1413	1513
Rx Channel		1537	1638	1738
Frequency		1712.4MHz	1732.6MHz	1752.6MHz
RMC 12.2K	22.50	22.34	22.24	22.04
HSDPA Subtest-1	22.50	22.13	22.03	21.83
HSDPA Subtest-2	22.00	21.63	21.53	21.33
HSDPA Subtest-3	21.50	21.13	21.03	20.83
HSDPA Subtest-4	21.50	21.13	21.03	20.83
HSUPA Subtest-1	22.50	22.25	22.17	22.02
HSUPA Subtest-2	20.50	20.25	20.17	20.02
HSUPA Subtest-3	21.50	21.25	21.17	21.02
HSUPA Subtest-4	20.50	20.25	20.17	20.02
HSUPA Subtest-5	22.50	22.25	22.17	22.02

P-sensor on

Band	UMTS Band IV Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	1312	1413	1513
Rx Channel		1537	1638	1738
Frequency		1712.4MHz	1732.6MHz	1752.6MHz
RMC 12.2K	19.00	18.89	18.94	18.91
HSDPA Subtest-1	19.00	18.85	18.91	18.87
HSDPA Subtest-2	18.50	18.37	18.44	18.40
HSDPA Subtest-3	18.00	17.90	17.95	17.93
HSDPA Subtest-4	18.00	17.86	17.92	17.89
HSUPA Subtest-1	19.00	18.83	18.90	18.85
HSUPA Subtest-2	17.00	16.88	16.93	16.90
HSUPA Subtest-3	18.00	17.82	17.89	17.84
HSUPA Subtest-4	17.00	16.82	16.88	16.86
HSUPA Subtest-5	19.00	18.81	18.86	18.82

P-sensor off

Band	UMTS Band V Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	4132	4183	4233
Rx Channel		4357	4408	4458
Frequency		826.4MHz	836.4MHz	846.6MHz
RMC 12.2K	23.00	22.09	22.33	22.38
HSDPA Subtest-1	23.00	21.88	22.12	22.17
HSDPA Subtest-2	22.50	21.38	21.62	21.67
HSDPA Subtest-3	22.00	20.88	21.12	21.17
HSDPA Subtest-4	22.00	20.88	21.12	21.17
HSUPA Subtest-1	23.00	22.00	22.26	22.36
HSUPA Subtest-2	21.00	20.00	20.26	20.36
HSUPA Subtest-3	22.00	21.00	21.26	21.36
HSUPA Subtest-4	21.00	20.00	20.26	20.36
HSUPA Subtest-5	23.00	22.00	22.26	22.36

P-sensor on

Band	UMTS Band V Average Conducted Power(dBm)			
Tx Channel	Max. Tune-up power (dBm)	4132	4183	4233
Rx Channel		4357	4408	4458
Frequency		826.4MHz	836.4MHz	846.6MHz
RMC 12.2K	22.00	21.88	21.92	21.86
HSDPA Subtest-1	22.00	21.80	21.84	21.79
HSDPA Subtest-2	21.50	21.30	21.36	21.29
HSDPA Subtest-3	21.00	20.81	20.87	20.84
HSDPA Subtest-4	21.00	20.85	20.91	20.81
HSUPA Subtest-1	22.00	21.75	21.76	21.75
HSUPA Subtest-2	20.00	19.77	19.81	19.76
HSUPA Subtest-3	21.00	20.80	20.80	20.76
HSUPA Subtest-4	20.00	19.80	19.77	19.78
HSUPA Subtest-5	22.00	21.70	21.69	21.66

9.2. CONDUCTED POWER MEASUREMENTS OF LTE Band

LTE Band 2

P-sensor off

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880.0	19193/ 1909.3				18615/ 1851.5	18900/ 1880.0	19185/ 1908.5
QPSK	1/0	23.50	22.82	21.98	22.18	QPSK	1/0	23.50	22.89	22.02	22.23
	1/2	23.50	22.86	22.96	22.78		1/8	23.50	22.93	23.02	22.85
	1/5	23.50	22.81	23.01	22.91		1/14	23.50	22.88	23.05	22.97
	3/0	23.00	22.24	22.06	22.18		8/0	23.00	22.29	22.14	22.23
	3/1	23.00	22.08	21.97	21.95		8/4	23.00	22.15	22.10	22.07
	3/2	23.00	21.96	21.94	21.92		8/7	23.00	22.09	22.03	21.98
	6/0	23.00	21.93	21.90	21.90		15/0	23.00	22.00	21.98	21.96
16QAM	1/0	23.00	22.17	22.36	22.20	16QAM	1/0	23.00	22.25	22.42	22.27
64QAM	1/0	22.50	22.16	22.16	21.87	64QAM	1/0	22.50	22.23	22.21	21.95
256QAM	1/0	19.50	18.58	18.74	18.48	256QAM	1/0	19.50	18.63	18.78	18.54

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	23.50	22.97	22.09	22.29	QPSK	1/0	23.50	23.01	22.14	22.35
	1/12	23.50	23.00	23.10	22.93		1/24	23.50	23.05	23.17	23.00
	1/24	23.50	22.95	23.11	23.01		1/49	23.50	22.99	23.16	23.05
	12/0	23.00	22.32	22.20	22.29		25/0	23.00	22.37	22.23	22.31
	12/6	23.00	22.19	22.16	22.13		25/12	23.00	22.24	22.19	22.16
	12/11	23.00	22.13	22.10	22.05		25/24	23.00	22.20	22.14	22.08
	25/0	23.00	22.04	22.06	22.01		50/0	23.00	22.11	22.13	22.09
16QAM	1/0	23.00	22.30	22.48	22.35	16QAM	1/0	23.00	22.37	22.55	22.40
64QAM	1/0	22.50	22.27	22.29	22.03	64QAM	1/0	22.50	22.32	22.35	22.10
256QAM	1/0	19.50	18.70	18.82	18.61	256QAM	1/0	19.50	18.74	18.88	18.65

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	23.50	23.09	22.20	22.41	QPSK	1/0	23.50	23.16	22.25	22.46
	1/38	23.50	23.11	23.24	23.08		1/49	23.50	23.18	23.30	23.13
	1/74	23.50	23.06	23.20	23.12		1/99	23.50	23.12	23.26	23.17
	36/0	23.00	22.41	22.26	22.35		50/0	23.00	22.45	22.42	22.39
	36/18	23.00	22.29	22.22	22.20		50/24	23.00	22.32	22.38	22.27
	36/35	23.00	22.21	22.17	22.14		50/49	23.00	22.28	22.25	22.21
	75/0	23.00	22.19	22.19	22.13		100/0	23.00	22.26	22.23	22.18
16QAM	1/0	23.00	22.43	22.62	22.44	16QAM	1/0	23.00	22.47	22.68	22.49
64QAM	1/0	22.50	22.38	22.41	22.18	64QAM	1/0	22.50	22.43	22.46	22.23
256QAM	1/0	19.50	18.79	18.92	18.73	256QAM	1/0	19.50	18.85	18.97	18.78

P-sensor on

LTE B2/BW=1.4M		Average Conducted Power(dBm)				LTE B2/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18607/ 1850.7	18900/ 1880.0	19193/ 1909.3				18615/ 1851.5	18900/ 1880.0	19185/ 1908.5
QPSK	1/0	17.00	16.45	16.48	16.43	QPSK	1/0	17.00	16.53	16.56	16.51
	1/2	17.00	16.42	16.44	16.39		1/8	17.00	16.50	16.52	16.47
	1/5	17.00	16.37	16.38	16.36		1/14	17.00	16.45	16.46	16.44
	3/0	16.00	15.54	15.52	15.52		8/0	16.00	15.62	15.60	15.60
	3/1	16.00	15.47	15.51	15.44		8/4	16.00	15.55	15.59	15.52
	3/2	16.00	15.44	15.45	15.43		8/7	16.00	15.52	15.53	15.51
	6/0	16.00	15.49	15.52	15.47		15/0	16.00	15.57	15.60	15.55
16QAM	1/0	16.00	15.52	15.55	15.50	16QAM	1/0	16.00	15.60	15.63	15.58
64QAM	1/0	15.00	14.44	14.47	14.40	64QAM	1/0	15.00	14.51	14.53	14.46
256QAM	1/0	13.00	12.39	12.42	12.36	256QAM	1/0	13.00	12.47	12.49	12.41

LTE B2/BW=5M		Average Conducted Power(dBm)				LTE B2/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18625/ 1852.5	18900/ 1880	19175/ 1907.5				18650/ 1855	18900/ 1880	19150/ 1905
QPSK	1/0	17.00	16.58	16.61	16.56	QPSK	1/0	17.00	16.62	16.65	16.60
	1/12	17.00	16.55	16.57	16.52		1/24	17.00	16.59	16.61	16.56
	1/24	17.00	16.50	16.51	16.49		1/49	17.00	16.54	16.55	16.53
	12/0	16.00	15.67	15.65	15.65		25/0	16.00	15.71	15.69	15.69
	12/6	16.00	15.60	15.64	15.57		25/12	16.00	15.64	15.68	15.61
	12/11	16.00	15.57	15.58	15.56		25/24	16.00	15.61	15.62	15.60
	25/0	16.00	15.62	15.65	15.60		50/0	16.00	15.66	15.69	15.64
16QAM	1/0	16.00	15.65	15.68	15.63	16QAM	1/0	16.00	15.69	15.72	15.67
64QAM	1/0	15.00	14.54	14.57	14.53	64QAM	1/0	15.00	14.59	14.63	14.58
256QAM	1/0	13.00	12.50	12.53	12.49	256QAM	1/0	13.00	12.56	12.60	12.55

LTE B2/BW=15M		Average Conducted Power(dBm)				LTE B2/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			18675/ 1857.5	18900/ 1880	19125/ 1902.5				18700/ 1860	18900/ 1880	19100/ 1900
QPSK	1/0	17.00	16.71	16.74	16.69	QPSK	1/0	17.00	16.84	16.87	16.82
	1/38	17.00	16.68	16.70	16.65		1/49	17.00	16.81	16.83	16.78
	1/74	17.00	16.63	16.64	16.62		1/99	17.00	16.76	16.77	16.75
	36/0	16.00	15.80	15.78	15.78		50/0	16.00	15.93	15.91	15.91
	36/18	16.00	15.73	15.77	15.70		50/24	16.00	15.86	15.90	15.83
	36/35	16.00	15.70	15.71	15.69		50/49	16.00	15.83	15.84	15.82
	75/0	16.00	15.75	15.78	15.73		100/0	16.00	15.88	15.91	15.86
16QAM	1/0	16.00	15.78	15.81	15.76	16QAM	1/0	16.00	15.91	15.94	15.89
64QAM	1/0	15.00	14.70	14.72	14.67	64QAM	1/0	15.00	14.79	14.76	14.73
256QAM	1/0	13.00	12.68	12.65	12.63	256QAM	1/0	13.00	12.77	12.73	12.69

LTE Band 4

P-sensor off

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	23.50	23.13	22.91	22.80	QPSK	1/8	23.50	23.20	22.95	22.85
	1/2	23.50	23.13	22.77	22.80		1/14	23.50	23.20	22.83	22.87
	1/5	23.50	23.06	22.90	22.85		1/15	23.50	23.13	22.94	22.91
	3/0	23.00	22.26	21.97	21.92		8/0	23.00	22.31	22.08	21.96
	3/1	23.00	22.11	21.90	21.87		8/4	23.00	22.19	21.94	21.90
	3/2	23.00	21.98	21.85	21.80		8/7	23.00	22.04	21.88	21.86
	6/0	23.00	21.92	21.75	21.71		15/6	23.00	21.99	21.83	21.77
16QAM	1/0	23.00	22.11	22.24	22.18	16QAM	1/0	23.00	22.19	22.30	22.25
64QAM	1/0	22.50	22.03	21.97	21.89	64QAM	1/0	22.50	22.10	22.02	21.97
256QAM	1/0	19.50	18.64	18.54	18.49	256QAM	1/0	19.50	18.69	18.58	18.55

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	23.50	23.28	23.02	22.91	QPSK	1/0	23.50	23.22	23.07	22.97
	1/12	23.50	23.27	22.91	22.95		1/24	23.50	23.32	22.98	23.02
	1/24	23.50	23.20	23.00	22.95		1/49	23.50	23.24	23.05	22.99
	12/0	23.00	22.36	22.11	22.09		25/0	23.00	22.43	22.15	22.11
	12/6	23.00	22.23	22.03	21.97		25/12	23.00	22.32	22.07	22.01
	12/11	23.00	22.16	21.95	21.86		25/24	23.00	22.20	22.00	21.94
	25/0	23.00	22.03	21.91	21.82		50/0	23.00	22.10	21.98	21.90
16QAM	1/0	23.00	22.24	22.36	22.33	16QAM	1/0	23.00	22.31	22.43	22.38
64QAM	1/0	22.50	22.14	22.10	22.05	64QMA	1/0	22.50	22.19	22.16	22.12
256QAM	1/0	19.50	18.76	18.62	18.62	256QMA	1/0	19.50	18.80	18.68	18.66

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	23.50	23.40	23.13	23.03	QPSK	1/0	23.50	23.47	23.18	23.08
	1/38	23.50	23.38	23.05	23.10		1/49	23.50	23.45	23.11	23.15
	1/74	23.50	23.31	23.09	23.06		1/99	23.50	23.37	23.15	23.11
	36/0	23.00	22.49	22.20	22.17		50/0	23.00	22.58	22.28	22.26
	36/18	23.00	22.36	22.18	22.05		50/24	23.00	22.45	22.16	22.13
	36/35	23.00	22.23	22.09	21.98		50/49	23.00	22.39	22.10	22.07
	75/0	23.00	22.18	22.04	21.94		100/0	23.00	22.25	22.08	21.99
16QAM	1/0	23.00	22.37	22.50	22.42	16QAM	1/0	23.00	22.41	22.56	21.99
64QAM	1/0	22.50	22.25	22.22	22.20	64QAM	1/0	22.50	22.30	22.27	22.25
256QAM	1/0	19.50	18.75	18.72	18.74	256QAM	1/0	19.50	18.91	18.77	18.79

P-sensor on

LTE B4/BW=1.4M		Average Conducted Power(dBm)				LTE B4/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19957/ 1710.7	20175/ 1732.5	20393/ 1754.3				19965/ 1711.5	20175/ 1732.5	20385/ 1753.5
QPSK	1/0	19.00	18.43	18.49	18.47	QPSK	1/8	19.00	18.51	18.57	18.55
	1/2	19.00	18.45	18.44	18.42		1/14	19.00	18.53	18.52	18.50
	1/5	19.00	18.40	18.41	18.37		1/15	19.00	18.48	18.49	18.45
	3/0	18.00	17.52	17.53	17.56		8/0	18.00	17.60	17.61	17.64
	3/1	18.00	17.50	17.51	17.47		8/4	18.00	17.58	17.59	17.55
	3/2	18.00	17.47	17.48	17.44		8/7	18.00	17.55	17.56	17.52
	6/0	18.00	17.45	17.53	17.51		15/6	18.00	17.55	17.61	17.59
16QAM	1/0	18.00	17.50	17.56	17.54	16QAM	1/0	18.00	17.58	17.64	17.62
64QAM	1/0	17.00	16.37	16.45	16.42	64QAM	1/0	17.00	16.48	16.53	16.50
256QAM	1/0	15.00	14.33	14.41	14.38	256QAM	1/0	15.00	14.44	14.47	14.45

LTE B4/BW=5M		Average Conducted Power(dBm)				LTE B4/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			19975/ 1712.5	20175/ 1732.5	20375/ 1752.5				20000/ 1715	20175/ 1732.5	20350/ 1750
QPSK	1/0	19.00	18.56	18.62	18.60	QPSK	1/0	19.00	18.60	18.66	18.64
	1/12	19.00	18.58	18.57	18.55		1/24	19.00	18.62	18.61	18.59
	1/24	19.00	18.53	18.54	18.50		1/49	19.00	18.57	18.58	18.54
	12/0	18.00	17.65	17.66	17.69		25/0	18.00	17.69	17.70	17.73
	12/6	18.00	17.63	17.64	17.60		25/12	18.00	17.67	17.68	17.64
	12/11	18.00	17.60	17.61	17.57		25/24	18.00	17.64	17.65	17.61
	25/0	18.00	17.60	17.66	17.64		50/0	18.00	17.64	17.70	17.68
16QAM	1/0	18.00	17.63	17.69	17.67	16QAM	1/0	18.00	17.67	17.73	17.71
64QAM	1/0	17.00	16.51	16.56	16.53	64QMA	1/0	17.00	16.59	16.63	16.61
256QAM	1/0	15.00	14.47	14.52	14.49	256QMA	1/0	15.00	14.52	14.57	14.54

LTE B4/BW=15M		Average Conducted Power(dBm)				LTE B4/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20025/ 1717.5	20175/ 1732.5	20325/ 1747.5				20050/ 1720	20175/ 1732.5	20300/ 1745
QPSK	1/0	19.00	18.69	18.75	18.73	QPSK	1/0	19.00	18.82	18.88	18.86
	1/38	19.00	18.71	18.70	18.68		1/49	19.00	18.84	18.83	18.81
	1/74	19.00	18.66	18.67	18.63		1/99	19.00	18.79	18.80	18.76
	36/0	18.00	17.78	17.79	17.82		50/0	18.00	17.91	17.92	17.95
	36/18	18.00	17.76	17.77	17.73		50/24	18.00	17.89	17.90	17.86
	36/35	18.00	17.73	17.74	17.70		50/49	18.00	17.86	17.87	17.83
	75/0	18.00	17.73	17.79	17.77		100/0	18.00	17.86	17.92	17.90
16QAM	1/0	18.00	17.76	17.82	17.80	16QAM	1/0	18.00	17.89	17.95	17.93
64QAM	1/0	17.00	16.66	16.73	16.70	64QAM	1/0	17.00	16.79	16.84	16.81
256QAM	1/0	15.00	14.62	14.69	14.65	256QAM	1/0	15.00	14.74	14.80	14.78

LTE Band 5

P-sensor off

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	23.50	23.09	23.01	23.09	QPSK	1/8	23.50	23.16	23.05	23.14
	1/2	23.50	23.02	23.06	22.98		1/14	23.50	23.09	23.12	23.05
	1/5	23.50	22.99	23.03	23.03		1/15	23.50	23.06	23.07	23.09
	3/0	23.00	22.42	22.39	22.33		8/0	23.00	22.46	22.43	22.37
	3/1	23.00	22.30	22.24	22.21		8/4	23.00	22.34	22.28	22.26
	3/2	23.00	22.25	22.16	22.12		8/7	23.00	22.29	22.20	22.17
	6/0	23.00	22.06	22.03	22.07		15/6	23.00	22.13	22.11	22.13
16QAM	1/0	23.00	22.45	22.32	22.31	16QAM	1/0	23.00	22.53	22.38	22.38
64QAM	1/0	22.50	22.27	22.12	22.11	64QAM	1/0	22.50	22.34	22.18	22.19
256QAM	1/0	19.50	18.88	18.81	18.79	256QAM	1/0	19.50	18.93	18.85	18.85

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829.0	20525/ 836.5	20600/ 844.0
QPSK	1/0	23.50	23.24	23.12	23.20	QPSK	1/0	23.50	23.28	23.17	23.26
	1/12	23.50	23.16	23.20	23.13		1/24	23.50	23.21	23.27	23.20
	1/24	23.50	23.13	23.13	23.13		1/49	23.50	23.17	23.18	23.17
	12/0	23.00	22.51	22.48	22.45		25/0	23.00	22.58	22.53	22.56
	12/6	23.00	22.40	22.32	22.29		25/12	23.00	22.49	22.45	22.42
	12/11	23.00	22.36	22.27	22.21		25/24	23.00	22.41	22.38	22.33
	25/0	23.00	22.17	22.19	22.18		50/0	23.00	22.24	22.26	22.26
16QAM	1/0	23.00	22.58	22.44	22.46	16QAM	1/0	23.00	22.65	22.51	22.51
64QAM	1/0	22.50	22.38	22.26	22.27	64QMA	1/0	22.50	22.43	22.32	22.34
256QAM	1/0	19.50	19.00	18.89	18.92	256QMA	1/0	19.50	19.04	18.95	18.96

P-sensor on

LTE B5/BW=1.4M		Average Conducted Power(dBm)				LTE B5/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20407/ 824.7	20525/ 836.5	20643/ 848.3				20415/ 825.5	20525/ 836.5	20635/ 847.5
QPSK	1/0	22.50	22.04	21.60	21.66	QPSK	1/8	22.50	22.11	21.67	21.73
	1/2	22.50	22.03	21.57	21.63		1/14	22.50	22.10	21.64	21.70
	1/5	22.50	21.98	21.54	21.61		1/15	22.50	22.05	21.61	21.68
	3/0	21.50	21.13	20.69	20.75		8/0	21.50	21.20	20.76	20.82
	3/1	21.50	21.08	20.62	20.68		8/4	21.50	21.15	20.69	20.75
	3/2	21.50	21.05	20.61	20.68		8/7	21.50	21.12	20.68	20.75
	6/0	21.50	21.08	20.64	20.70		15/0	21.50	21.15	20.71	20.77
16QAM	1/0	21.50	21.08	20.64	20.71	16QAM	1/0	21.50	21.15	20.71	20.78
64QAM	1/0	20.50	20.19	19.75	19.77	64QAM	1/0	20.50	20.26	19.82	19.84
256QAM	1/0	18.50	18.22	18.33	18.33	256QAM	1/0	18.50	18.15	18.14	18.13

LTE B5/BW=5M		Average Conducted Power(dBm)				LTE B5/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20425/ 826.5	20525/ 836.5	20625/ 846.5				20450/ 829.0	20525/ 836.5	20600/ 844.0
QPSK	1/0	22.50	22.20	22.31	22.29	QPSK	1/0	22.50	22.25	22.36	22.34
	1/12	22.50	22.19	22.30	22.26		1/24	22.50	22.24	22.35	22.31
	1/24	22.50	22.14	22.28	22.23		1/49	22.50	22.19	22.33	22.28
	12/0	21.50	21.29	21.40	21.38		25/0	21.50	21.34	21.45	21.43
	12/6	21.50	21.24	21.35	21.31		25/12	21.50	21.29	21.40	21.36
	12/11	21.50	21.21	21.35	21.30		25/24	21.50	21.26	21.40	21.35
	25/0	21.50	21.24	21.35	21.33		50/0	21.50	21.29	21.40	21.38
16QAM	1/0	21.50	21.24	21.38	21.33	16QAM	1/0	21.50	21.29	21.43	21.38
64QAM	1/0	20.50	20.35	20.46	20.40	64QMA	1/0	20.50	20.40	20.51	20.45
256QAM	1/0	18.50	18.25	18.24	18.23	256QMA	1/0	18.50	18.21	18.23	18.25

LTE Band 7

P-sensor off

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535.0	21425/ 2567.5				20800/ 2505.0	21100/ 2535.0	21400/ 2565.0
QPSK	1/0	22.00	21.40	21.56	21.76	QPSK	1/0	22.00	21.44	21.61	21.82
	1/12	22.00	21.55	21.74	22.04		1/24	22.00	21.60	21.81	22.11
	1/24	22.00	21.65	21.89	21.87		1/49	22.00	21.69	21.94	21.91
	12/0	21.50	21.28	21.27	21.32		25/0	21.50	21.31	21.35	21.39
	12/6	21.50	21.15	21.19	21.21		25/12	21.50	21.19	21.23	21.27
	12/11	21.50	21.09	21.10	21.14		25/24	21.50	21.12	21.16	21.20
	25/0	21.50	20.58	20.79	20.98		50/0	21.50	20.65	20.86	21.06
16QAM	1/0	21.50	20.87	20.89	21.17	16QAM	1/0	21.50	20.94	20.96	21.22
64QAM	1/0	21.00	20.74	20.80	20.94	64QMA	1/0	21.00	20.79	20.86	21.01
256QAM	1/0	19.50	18.61	18.66	18.67	256QMA	1/0	19.50	18.65	19.86	18.71

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535.0	21375/ 2562.5				20850/ 2510.0	21100/ 2535.0	21350/ 2560.0
QPSK	1/0	22.00	21.52	21.67	21.88	QPSK	1/0	22.00	21.59	21.72	21.93
	1/38	22.00	21.66	21.88	22.19		1/49	22.00	21.73	21.94	22.24
	1/74	22.00	21.76	21.98	21.98		1/99	22.00	21.82	22.04	22.03
	36/0	21.50	21.38	21.40	21.44		50/0	21.50	21.41	21.46	21.48
	36/18	21.50	21.22	21.29	21.32		50/24	21.50	21.30	21.33	21.36
	36/35	21.50	21.17	21.21	21.26		50/49	21.50	21.23	21.25	21.29
	75/0	21.50	20.73	20.92	21.10		100/0	21.50	20.80	20.96	21.15
16QAM	1/0	21.50	21.00	21.03	21.26	16QAM	1/0	21.50	21.04	21.09	21.31
64QAM	1/0	21.00	20.85	20.92	21.09	64QAM	1/0	21.00	20.90	20.97	21.14
256QAM	1/0	19.50	18.70	18.76	18.79	256QAM	1/0	19.50	18.76	18.81	18.84

P-sensor on

LTE B7/BW=5M		Average Conducted Power(dBm)				LTE B7/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20775/ 2502.5	21100/ 2535.0	21425/ 2567.5				20800/ 2505.0	21100/ 2535.0	21400/ 2565.0
QPSK	1/0	20.00	19.50	19.53	19.42	QPSK	1/0	20.00	19.58	19.61	19.50
	1/12	20.00	19.45	19.46	19.41		1/24	20.00	19.53	19.54	19.49
	1/24	20.00	19.42	19.45	19.39		1/49	20.00	19.50	19.53	19.47
	12/0	19.00	18.59	18.62	18.51		25/0	19.00	18.67	18.70	18.59
	12/6	19.00	18.50	18.51	18.46		25/12	19.00	18.58	18.59	18.54
	12/11	19.00	18.49	18.52	18.42		25/24	19.00	18.57	18.60	18.48
	25/0	19.00	18.54	18.57	18.39		50/0	19.00	18.62	18.65	18.46
16QAM	1/0	19.00	18.52	18.55	18.49	16QAM	1/0	19.00	18.60	18.63	18.57
64QAM	1/0	18.00	17.65	17.68	17.57	64QMA	1/0	18.00	17.73	17.76	17.65
256QAM	1/0	16.00	15.12	15.15	15.08	256QMA	1/0	16.00	15.21	15.33	17.22

LTE B7/BW=15M		Average Conducted Power(dBm)				LTE B7/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			20825/ 2507.5	21100/ 2535.0	21375/ 2562.5				20850/ 2510.0	21100/ 2535.0	21350/ 2560.0
QPSK	1/0	20.00	19.67	19.70	19.59	QPSK	1/0	20.00	19.79	19.82	19.71
	1/38	20.00	19.62	19.63	19.58		1/49	20.00	19.74	19.75	19.70
	1/74	20.00	19.59	19.62	19.56		1/99	20.00	19.71	19.74	19.68
	36/0	19.00	18.76	18.79	18.68		50/0	19.00	18.88	18.91	18.80
	36/18	19.00	18.67	18.68	18.62		50/24	19.00	18.79	18.80	18.77
	36/35	19.00	18.66	18.69	18.56		50/49	19.00	18.78	18.81	18.74
	75/0	19.00	18.71	18.74	18.53		100/0	19.00	18.83	18.86	18.69
16QAM	1/0	19.00	18.69	18.72	18.66	16QAM	1/0	19.00	18.81	18.84	18.78
64QAM	1/0	18.00	17.82	17.85	17.74	64QAM	1/0	18.00	17.94	17.97	17.86
256QAM	1/0	16.00	15.25	15.36	15.22	256QAM	1/0	16.00	15.16	15.10	15.24

LTE Band 12

P-sensor off

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	24.00	23.26	23.32	23.28	QPSK	1/8	24.00	23.33	23.36	23.33
	1/2	24.00	23.43	23.35	23.35		1/14	24.00	23.50	23.41	23.42
	1/5	24.00	23.42	23.39	23.37		1/15	24.00	23.49	23.43	23.43
	3/0	23.50	22.70	22.64	22.67		8/0	23.50	22.74	22.69	22.71
	3/1	23.50	22.60	22.53	22.55		8/4	23.50	22.67	22.62	22.63
	3/2	23.50	22.52	22.46	22.49		8/7	23.50	22.59	22.55	22.54
	6/0	23.50	22.43	22.29	22.37		15/0	23.50	22.50	22.37	22.43
16QAM	1/0	23.50	22.73	22.64	22.64	16QAM	1/0	23.50	22.81	22.70	22.71
64QAM	1/0	23.00	22.57	22.49	22.53	64QAM	1/0	23.00	22.64	22.54	22.42
256QAM	1/0	20.00	18.82	18.72	18.93	256QAM	1/0	20.00	18.96	18.76	18.99

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704.0	23095/ 707.5	23130/ 711.0
QPSK	1/0	24.00	23.41	23.43	23.39	QPSK	1/0	24.00	23.45	23.48	23.45
	1/12	24.00	23.57	23.49	23.50		1/24	24.00	23.62	23.56	23.57
	1/24	24.00	23.56	23.49	23.47		1/49	24.00	23.60	23.54	23.51
	12/0	23.50	22.78	22.72	22.75		25/0	23.50	22.89	22.83	22.86
	12/6	23.50	22.71	22.68	22.67		25/12	23.50	22.79	22.72	22.74
	12/11	23.50	22.63	22.60	22.60		25/24	23.50	22.75	22.69	22.65
	25/0	23.50	22.54	22.45	22.48		50/0	23.50	22.61	22.52	22.56
16QAM	1/0	23.50	22.86	22.76	22.79	16QAM	1/0	23.50	22.93	22.83	22.84
64QAM	1/0	23.00	22.68	22.62	22.50	64QMA	1/0	23.00	22.73	22.68	22.57
256QAM	1/0	20.00	18.94	18.80	19.06	256QMA	1/0	20.00	18.98	18.86	19.10

P-sensor on

LTE B12/BW=1.4M		Average Conducted Power(dBm)				LTE B12/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23017/ 699.7	23095/ 707.5	23173/ 715.3				23025/ 700.5	23095/ 707.5	23165/ 714.5
QPSK	1/0	23.00	22.53	22.57	22.55	QPSK	1/8	23.00	22.64	22.68	22.66
	1/2	23.00	22.48	22.55	22.48		1/14	23.00	22.59	22.66	22.59
	1/5	23.00	22.45	22.49	22.47		1/15	23.00	22.56	22.60	22.58
	3/0	22.00	21.62	21.66	21.64		8/0	22.00	21.73	21.77	21.75
	3/1	22.00	21.53	21.60	21.53		8/4	22.00	21.64	21.71	21.64
	3/2	22.00	21.52	21.56	21.54		8/7	22.00	21.63	21.67	21.65
	6/0	22.00	21.57	21.61	21.59		15/6	22.00	21.68	21.72	21.70
16QAM	1/0	22.00	21.55	21.59	21.57	16QAM	1/0	22.00	21.66	21.70	21.68
64QAM	1/0	21.00	20.68	20.72	20.70	64QAM	1/0	21.00	20.79	20.83	20.81
256QAM	1/0	19.00	18.88	18.74	18.76	256QAM	1/0	19.00	18.75	18.71	18.72

LTE B12/BW=5M		Average Conducted Power(dBm)				LTE B12/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23035/ 701.5	23095/ 707.5	23155/ 713.5				23060/ 704.0	23095/ 707.5	23130/ 711.0
QPSK	1/0	23.00	22.71	22.75	22.73	QPSK	1/0	23.00	22.79	22.83	22.81
	1/12	23.00	22.66	22.73	22.66		1/24	23.00	22.74	22.81	22.74
	1/24	23.00	22.63	22.67	22.65		1/49	23.00	22.71	22.75	22.73
	12/0	22.00	21.80	21.84	21.82		25/0	22.00	21.88	21.92	21.90
	12/6	22.00	21.71	21.78	21.71		25/12	22.00	21.79	21.86	21.79
	12/11	22.00	21.70	21.74	21.72		25/24	22.00	21.78	21.82	21.80
	25/0	22.00	21.75	21.79	21.77		50/0	22.00	21.83	21.87	21.85
16QAM	1/0	22.00	21.73	21.77	21.75	16QAM	1/0	22.00	21.81	21.85	21.83
64QAM	1/0	21.00	20.86	20.90	20.88	64QMA	1/0	21.00	20.94	20.98	20.96
256QAM	1/0	19.00	18.88	18.84	18.81	256QMA	1/0	19.00	18.85	18.92	18.91

LTE Band 13

P-sensor off

LTE B13/BW=5M		Average Conducted Power(dBm)				LTE B13/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23025/ 779.5	23230/ 782.0	23255/ 784.5				23230/ 782.0
QPSK	1/0	24.00	23.34	23.33	23.32	QPSK	1/0	24.00	23.38
	1/12	24.00	23.46	23.44	23.44		1/24	24.00	23.51
	1/24	24.00	23.37	23.36	23.37		1/49	24.00	23.41
	12/0	23.50	22.60	22.68	22.62		25/0	23.50	22.75
	12/6	23.50	22.53	22.61	22.56		25/12	23.50	22.67
	12/11	23.50	22.45	22.53	22.47		25/24	23.50	22.59
	25/0	23.50	22.36	22.36	22.35		50/0	23.50	22.43
16QAM	1/0	23.50	22.72	22.72	22.74	16QAM	1/0	23.50	22.79
64QAM	1/0	23.00	22.49	22.48	22.47	64QMA	1/0	23.00	22.54
256QAM	1/0	20.00	18.85	18.83	18.85	256QMA	1/0	20.00	18.89

P-sensor on

LTE B13/BW=5M		Average Conducted Power(dBm)				LTE B13/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23025/ 779.5	23230/ 782.0	23255/ 784.5				23230/ 782.0
QPSK	1/0	23.00	22.67	22.75	22.72	QPSK	1/0	23.00	22.83
	1/12	23.00	22.59	22.67	22.64		1/24	23.00	22.75
	1/24	23.00	22.58	22.66	22.63		1/49	23.00	22.74
	12/0	22.00	21.68	21.76	21.73		25/0	22.00	21.84
	12/6	22.00	21.58	21.66	21.63		25/12	22.00	21.74
	12/11	22.00	21.54	21.62	21.59		25/24	22.00	21.70
	25/0	22.00	21.62	21.70	21.67		50/0	22.00	21.78
16QAM	1/0	22.00	21.46	21.54	21.51	16QAM	1/0	22.00	21.62
64QAM	1/0	21.00	20.67	20.75	20.72	64QMA	1/0	21.00	20.83
256QAM	1/0	19.00	18.74	18.76	18.71	256QMA	1/0	19.00	18.88

LTE Band 14

P-sensor off

LTE B14/BW=5M		Average Conducted Power(dBm)				LTE B14/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23305/ 790.5	23330/ 793	23355/ 795.5				23330/ 793
QPSK	1/0	24.00	23.47	23.46	23.45	QPSK	1/0	24.00	23.51
	1/12	24.00	23.39	23.37	23.37		1/24	24.00	23.44
	1/24	24.00	23.30	23.29	23.30		1/49	24.00	23.34
	12/0	23.50	22.61	22.60	22.63		25/0	23.50	22.63
	12/6	23.50	22.52	22.54	22.56		25/12	23.50	22.58
	12/11	23.50	22.42	22.46	22.49		25/24	23.50	22.45
	25/0	23.50	22.32	22.32	22.31		50/0	23.50	22.39
16QAM	1/0	23.50	22.82	22.82	22.84	16QAM	1/0	23.50	22.89
64QAM	1/0	23.00	22.59	22.58	22.57	64QAM	1/0	23.00	22.64
265QAM	1/0	20.00	18.99	18.97	18.99	265QAM	1/0	20.00	19.03

P-sensor on

LTE B14/BW=5M		Average Conducted Power(dBm)				LTE B14/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			23305/ 790.5	23330/ 793	23355/ 795.5				23330/ 793
QPSK	1/0	23.00	22.72	22.80	22.77	QPSK	1/0	23.00	22.88
	1/12	23.00	22.68	22.76	22.73		1/24	23.00	22.84
	1/24	23.00	22.65	22.73	22.70		1/49	23.00	22.81
	12/0	22.00	21.73	21.81	21.78		25/0	22.00	21.89
	12/6	22.00	21.67	21.75	21.72		25/12	22.00	21.83
	12/11	22.00	21.61	21.69	21.66		25/24	22.00	21.77
	25/0	22.00	22.72	22.80	22.77		50/0	22.00	21.83
16QAM	1/0	22.00	21.53	21.61	21.58	16QAM	1/0	22.00	21.69
64QAM	1/0	21.00	20.72	20.80	20.77	64QAM	1/0	21.00	20.88
265QAM	1/0	19.00	18.75	18.71	18.79	265QAM	1/0	19.00	18.76

LTE Band 17

P-sensor off

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709.0	23790/ 710	23800/ 711.0
QPSK	1/0	23.50	23.28	23.29	23.22	QPSK	1/0	23.50	23.32	23.34	23.28
	1/12	23.50	23.39	23.34	23.35		1/24	23.50	23.44	23.41	23.42
	1/24	23.50	23.33	23.30	23.33		1/49	23.50	23.37	23.35	23.37
	12/0	23.00	22.50	22.48	22.53		25/0	23.00	22.67	22.60	22.65
	12/6	23.00	22.47	22.39	22.45		25/12	23.00	22.56	22.52	22.58
	12/11	23.00	22.40	22.34	22.37		25/24	23.00	22.43	22.38	22.46
	25/0	23.00	22.32	22.22	22.22		50/0	23.00	22.39	22.29	22.30
16QAM	1/0	23.00	22.63	22.64	22.61	16QAM	1/0	23.00	22.70	22.71	22.66
64QAM	1/0	22.50	22.49	22.36	22.43	64QAM	1/0	22.50	22.54	22.42	22.48
265QAM	1/0	19.50	19.09	18.91	18.90	265QAM	1/0	19.50	19.13	18.97	18.94

P-sensor on

LTE B17/BW=5M		Average Conducted Power(dBm)				LTE B17/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			23755/ 706.5	23790/ 710	23825/ 713.5				23780/ 709.0	23790/ 710	23800/ 711.0
QPSK	1/0	22.50	22.24	22.30	22.25	QPSK	1/0	22.50	22.36	22.42	22.37
	1/12	22.50	22.19	22.26	22.22		1/24	22.50	22.31	22.38	22.34
	1/24	22.50	22.15	22.23	22.16		1/49	22.50	22.27	22.35	22.28
	12/0	21.50	21.33	21.39	21.34		25/0	21.50	21.45	21.49	21.46
	12/6	21.50	21.24	21.31	21.27		25/12	21.50	21.36	21.43	21.39
	12/11	21.50	21.22	21.30	21.23		25/24	21.50	21.34	21.42	21.35
	25/0	21.50	21.28	21.34	21.29		50/0	21.50	21.40	21.46	21.41
16QAM	1/0	21.50	21.25	21.33	21.26	16QAM	1/0	21.50	21.37	21.45	21.38
64QAM	1/0	20.50	20.39	20.45	20.40	64QAM	1/0	20.50	20.46	20.47	20.39
265QAM	1/0	18.50	18.44	18.41	18.37	265QAM	1/0	18.50	18.42	18.48	18.37

LTE Band 25

P-sensor off

LTE B25/BW=1.4M		Average Conducted Power(dBm)				LTE B25/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26047/ 1850.7	26365/ 1882.5	26683/ 1914.3				26055/ 1851.5	26365/ 1882.5	26675/ 1913.5
QPSK	1/0	24.00	23.11	23.11	23.05	QPSK	1/0	24.00	23.18	23.15	23.10
	1/2	24.00	23.08	23.00	23.00		1/8	24.00	23.15	23.06	23.07
	1/5	24.00	23.13	23.12	23.18		1/14	24.00	23.20	23.16	23.24
	3/0	23.50	22.32	22.42	22.36		8/0	23.50	22.37	22.48	22.41
	3/1	23.50	22.26	22.31	22.25		8/4	23.50	22.31	22.35	22.30
	3/2	23.50	22.17	22.19	22.20		8/7	23.50	22.27	22.27	22.25
	6/0	23.50	22.09	22.01	22.15		15/0	23.50	22.16	22.09	22.21
16QAM	1/0	23.50	22.43	22.34	22.36	16QAM	1/0	23.50	22.51	22.40	22.43
64QAM	1/0	23.00	22.28	22.23	22.20	64QAM	1/0	23.00	22.35	22.28	22.28
256QAM	1/0	20.00	18.57	18.73	18.72	256QAM	1/0	20.00	18.62	18.77	18.78

LTE B25/BW=5M		Average Conducted Power(dBm)				LTE B25/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26065/ 1852.5	26365/ 1882.5	26665/ 1912.5				26090/ 1855.0	26365/ 1882.5	26640/ 1910.0
QPSK	1/0	24.00	23.26	23.22	23.16	QPSK	1/0	24.00	23.30	23.27	23.22
	1/12	24.00	23.22	23.14	23.15		1/24	24.00	23.27	23.21	23.22
	1/24	24.00	23.27	23.22	23.28		1/49	24.00	23.31	23.27	23.32
	12/0	23.50	22.43	22.52	22.48		25/0	23.50	22.45	22.58	22.51
	12/6	23.50	22.33	22.44	22.36		25/12	23.50	22.38	22.49	22.46
	12/11	23.50	22.23	22.38	22.31		25/24	23.50	22.30	22.37	22.39
	25/0	23.50	22.20	22.17	22.26		50/0	23.50	22.27	22.24	22.34
16QAM	1/0	23.50	22.56	22.46	22.51	16QAM	1/0	23.50	22.63	22.53	22.56
64QAM	1/0	23.00	22.39	22.36	22.36	64QAM	1/0	23.00	22.44	22.42	22.43
256QAM	1/0	20.00	18.69	18.81	18.85	256QAM	1/0	20.00	18.73	18.87	18.89

LTE B25/BW=15M		Average Conducted Power(dBm)				LTE B25/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26115/ 1857.5	26365/ 1882.5	26615/ 1907.5				26140/ 1860.0	26365/ 1882.5	26590/ 1905.0
QPSK	1/0	24.00	23.38	23.33	23.28	QPSK	1/0	24.00	23.45	23.38	23.33
	1/38	24.00	23.33	23.28	23.30		1/49	24.00	23.40	23.34	23.35
	1/74	24.00	23.38	23.31	23.39		1/99	24.00	23.44	23.37	23.44
	36/0	23.50	22.58	22.61	22.63		50/0	23.50	22.71	22.74	22.76
	36/18	23.50	22.54	22.56	22.55		50/24	23.50	22.65	22.68	22.64
	36/35	23.50	22.47	22.45	22.48		50/49	23.50	22.52	22.55	22.58
	75/0	23.50	22.35	22.30	22.38		100/0	23.50	22.42	22.34	22.43
16QAM	1/0	23.50	22.69	22.60	22.60	16QAM	1/0	23.50	22.73	22.66	22.65
64QAM	1/0	23.00	22.50	22.48	22.51	64QAM	1/0	23.00	22.55	22.53	22.56
256QAM	1/0	20.00	18.78	18.91	18.97	256QAM	1/0	20.00	18.84	18.96	19.02

P-sensor on

LTE B25/BW=1.4M		Average Conducted Power(dBm)				LTE B25/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26047/ 1850.7	26365/ 1882.5	26683/ 1914.3				26055/ 1851.5	26365/ 1882.5	26675/ 1913.5
QPSK	1/0	17.00	16.37	16.45	16.38	QPSK	1/0	17.00	16.41	16.49	16.42
	1/2	17.00	16.34	16.44	16.33		1/8	17.00	16.38	16.48	16.37
	1/5	17.00	16.32	16.43	16.27		1/14	17.00	16.36	16.47	16.31
	3/0	16.00	15.46	15.54	15.47		8/0	16.00	15.50	15.58	15.51
	3/1	16.00	15.39	15.49	15.38		8/4	16.00	15.43	15.53	15.42
	3/2	16.00	15.33	15.45	15.32		8/7	16.00	15.39	15.47	15.38
	6/0	16.00	15.29	15.38	15.27		15/0	16.00	15.35	15.42	15.33
16QAM	1/0	16.00	15.42	15.53	15.37	16QAM	1/0	16.00	15.46	15.57	15.41
64QAM	1/0	15.00	14.36	14.41	14.31	64QAM	1/0	15.00	14.40	14.45	14.35
256QAM	1/0	13.00	12.76	12.77	12.79	256QAM	1/0	13.00	12.69	12.64	12.61

LTE B25/BW=5M		Average Conducted Power(dBm)				LTE B25/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26065/ 1852.5	26365/ 1882.5	26665/ 1912.5				26090/ 1855.0	26365/ 1882.5	26640/ 1910.0
QPSK	1/0	17.00	16.49	16.57	16.50	QPSK	1/0	17.00	16.56	16.64	16.57
	1/12	17.00	16.46	16.56	16.45		1/24	17.00	16.53	16.63	16.52
	1/24	17.00	16.44	16.55	16.39		1/49	17.00	16.51	16.62	16.46
	12/0	16.00	15.58	15.66	15.59		25/0	16.00	15.65	15.73	15.66
	12/6	16.00	15.51	15.61	15.50		25/12	16.00	15.58	15.68	15.57
	12/11	16.00	15.49	15.58	15.47		25/24	16.00	15.54	15.64	15.53
	25/0	16.00	15.46	15.53	15.44		50/0	16.00	15.51	15.60	15.48
16QAM	1/0	16.00	15.54	15.65	15.49	16QAM	1/0	16.00	15.61	15.72	15.56
64QAM	1/0	15.00	14.48	14.53	14.43	64QAM	1/0	15.00	14.55	14.60	14.50
256QAM	1/0	13.00	12.75	12.71	12.77	256QAM	1/0	13.00	12.82	12.86	12.88

LTE B25/BW=15M		Average Conducted Power(dBm)				LTE B25/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26115/ 1857.5	26365/ 1882.5	26615/ 1907.5				26140/ 1860.0	26365/ 1882.5	26590/ 1905.0
QPSK	1/0	17.00	16.61	16.69	16.62	QPSK	1/0	17.00	16.74	16.82	16.75
	1/38	17.00	16.58	16.68	16.57		1/49	17.00	16.71	16.81	16.70
	1/74	17.00	16.56	16.67	16.51		1/99	17.00	16.69	16.80	16.64
	36/0	16.00	15.70	15.78	15.71		50/0	16.00	15.83	15.91	15.84
	36/18	16.00	15.68	15.73	15.62		50/24	16.00	15.76	15.86	15.75
	36/35	16.00	15.63	15.74	15.58		50/49	16.00	15.74	15.83	15.72
	75/0	16.00	15.58	15.69	15.54		100/0	16.00	15.68	15.80	15.69
16QAM	1/0	16.00	15.66	15.77	15.61	16QAM	1/0	16.00	15.79	15.90	15.74
64QAM	1/0	15.00	14.60	14.65	14.55	64QAM	1/0	15.00	14.73	14.78	14.68
256QAM	1/0	13.00	12.67	12.69	12.66	256QAM	1/0	13.00	12.88	12.92	12.91

LTE Band 26

P-sensor off

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26797/ 824.7	26915/ 836.5	27033/ 848.3				26805/ 825.5	26915/ 836.5	27025/ 847.5
QPSK	1/0	24.00	23.61	23.32	23.38	QPSK	1/8	24.00	23.68	23.36	23.43
	1/2	24.00	23.33	23.17	23.40		1/14	24.00	23.40	23.23	23.47
	1/5	24.00	23.50	23.46	23.24		1/15	24.00	23.57	23.50	23.30
	3/0	23.50	22.66	22.72	22.77		8/0	23.50	22.75	22.78	22.81
	3/1	23.50	22.53	22.58	22.65		8/4	23.50	22.69	22.70	22.72
	3/2	23.50	22.47	22.52	22.56		8/7	23.50	22.55	22.58	22.60
	6/0	23.50	22.38	22.33	22.44		15/0	23.50	22.45	22.41	22.50
16QAM	1/0	23.50	22.80	22.40	23.02	16QAM	1/0	23.50	22.88	22.46	23.09
64QAM	1/0	23.00	21.85	21.60	21.70	64QAM	1/0	23.00	21.92	21.65	21.78
256QAM	1/0	20.00	18.62	18.65	18.63	256QAM	1/0	20.00	18.67	18.69	18.69

LTE B26/BW=5M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26815/ 826.5	26915/ 836.5	27015/ 846.5
QPSK	1/0	24.00	23.76	23.43	23.49
	1/12	24.00	23.47	23.31	23.55
	1/24	24.00	23.64	23.56	23.34
	12/0	23.50	22.80	22.83	22.85
	12/6	23.50	22.71	22.74	22.77
	12/11	23.50	22.58	22.62	22.65
	25/0	23.50	22.49	22.49	22.55
16QAM	1/0	23.50	22.93	22.52	23.17
64QAM	1/0	23.00	21.96	21.73	21.86
256QAM	1/0	20.00	18.74	18.73	18.76

LTE B26/BW=10M		Average Conducted Power(dBm)				LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26840/ 829	26915/ 836.5	26990/ 844				26865/ 831.5	26915/ 836.5	26965/ 841.5
QPSK	1/0	24.00	23.80	23.48	23.55	QPSK	1/0	24.00	23.88	23.54	23.61
	1/24	24.00	23.52	23.38	23.62		1/38	24.00	23.58	23.45	23.70
	1/49	24.00	23.68	23.61	23.38		1/74	24.00	23.75	23.65	23.45
	25/0	23.50	22.84	22.88	22.91		36/0	23.50	22.95	22.92	22.94
	25/12	23.50	22.72	22.75	22.83		36/18	23.50	22.90	22.85	22.86
	25/24	23.50	22.63	22.67	22.74		36/35	23.50	22.84	22.73	22.77
	50/0	23.50	22.56	22.56	22.63		75/0	23.50	22.64	22.62	22.67
16QAM	1/0	23.50	23.00	22.59	23.22	16QAM	1/0	23.50	23.06	22.66	23.26
64QAM	1/0	23.00	22.01	21.79	21.93	64QAM	1/0	23.00	22.07	21.85	22.01
256QAM	1/0	20.00	18.78	18.79	18.80	256QAM	1/0	20.00	18.83	18.83	18.88

P-sensor on

LTE B26/BW=1.4M		Average Conducted Power(dBm)				LTE B26/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26797/ 824.7	26915/ 836.5	27033/ 848.3				26805/ 825.5	26915/ 836.5	27025/ 847.5
QPSK	1/0	23.00	22.45	21.11	21.12	QPSK	1/8	23.00	22.52	21.18	21.19
	1/2	23.00	22.40	21.07	21.07		1/14	23.00	22.47	21.14	21.14
	1/5	23.00	22.38	21.05	21.03		1/15	23.00	22.45	21.12	21.10
	3/0	22.00	21.54	20.20	20.21		8/0	22.00	21.61	20.27	20.28
	3/1	22.00	21.45	20.12	20.12		8/4	22.00	21.52	20.19	20.19
	3/2	22.00	21.45	20.12	20.10		8/7	22.00	21.52	20.19	20.17
	6/0	22.00	21.49	20.15	20.16		15/6	22.00	21.56	20.22	20.23
16QAM	1/0	22.00	20.60	19.26	19.27	16QAM	1/0	22.00	21.55	20.22	20.20
64QAM	1/0	21.00	20.48	19.15	19.15	64QAM	1/0	21.00	20.67	19.33	19.34
256QAM	1/0	19.00	18.76	18.78	18.72	256QAM	1/0	19.00	18.72	18.69	18.65

LTE B26/BW=5M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26815/ 826.5	26915/ 836.5	27015/ 846.5
QPSK	1/0	23.00	22.56	22.63	22.59
	1/12	23.00	22.51	22.61	22.54
	1/24	23.00	22.49	22.55	22.53
	12/0	22.00	21.65	21.72	21.68
	12/6	22.00	21.56	21.66	21.59
	12/11	22.00	21.56	21.62	21.60
	25/0	22.00	21.60	21.67	21.63
16QAM	1/0	22.00	21.59	21.65	21.63
64QAM	1/0	21.00	20.71	20.78	20.74
256QAM	1/0	19.00	18.82	18.88	18.76

LTE B26/BW=10M		Average Conducted Power(dBm)				LTE B26/BW=15M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			26840/ 829	26915/ 836.5	26990/ 844				26865/ 831.5	26915/ 836.5	26965/ 841.5
QPSK	1/0	23.00	22.68	22.75	22.71	QPSK	1/0	23.00	22.76	22.83	22.79
	1/24	23.00	22.63	22.73	22.66		1/38	23.00	22.71	22.81	22.74
	1/49	23.00	22.61	22.67	22.65		1/74	23.00	22.69	22.75	22.73
	25/0	22.00	21.77	21.84	21.80		36/0	22.00	21.85	21.92	21.88
	25/12	22.00	21.68	21.78	21.71		36/18	22.00	21.76	21.86	21.79
	25/24	22.00	21.68	21.74	21.72		36/35	22.00	21.76	21.82	21.80
	50/0	22.00	21.72	21.79	21.75		75/0	22.00	21.80	21.87	21.83
16QAM	1/0	22.00	21.71	21.77	21.75	16QAM	1/0	22.00	21.79	21.85	21.83
64QAM	1/0	21.00	20.83	20.90	20.86	64QAM	1/0	21.00	20.91	20.98	20.94
256QAM	1/0	19.00	18.84	18.82	18.76	256QAM	1/0	19.00	18.75	18.92	18.91

LTE Band 30

P-sensor off

LTE B30/BW=5M		Average Conducted Power(dBm)				LTE B30/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			27685/ 2307.5	27710/ 2310	27735/ 2312.5				27710/ 2310
QPSK	1/0	21.00	19.96	19.95	19.94	QPSK	1/0	21.00	20.00
	1/12	21.00	20.00	19.98	19.98		1/24	21.00	20.05
	1/24	21.00	19.85	19.84	19.85		1/49	21.00	19.89
	12/0	20.50	19.10	19.11	19.13		25/0	20.50	19.15
	12/6	20.50	19.01	19.05	19.08		25/12	20.50	19.07
	12/11	20.50	18.92	18.94	18.97		25/24	20.50	19.93
	25/0	20.50	18.82	18.82	18.81		50/0	20.50	18.89
16QAM	1/0	20.50	19.18	19.18	19.20	16QAM	1/0	20.50	19.25
64QAM	1/0	20.00	19.05	19.04	19.03	64QAM	1/0	20.00	19.10
256QAM	1/0	17.00	16.82	16.80	16.82	256QAM	1/0	17.00	16.86

P-sensor on

LTE B30/BW=5M		Average Conducted Power(dBm)				LTE B30/BW=10M		Average Conducted Power(dBm)	
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)
			27685/ 2307.5	27710/ 2310	27735/ 2312.5				27710/ 2310
QPSK	1/0	19.00	18.74	18.71	18.75	QPSK	1/0	19.00	18.88
	1/12	19.00	18.68	18.65	18.69		1/24	19.00	18.76
	1/24	19.00	18.64	18.61	18.65		1/49	19.00	18.72
	12/0	18.00	17.75	17.72	17.76		25/0	18.00	17.83
	12/6	18.00	17.73	17.70	17.74		25/12	18.00	17.81
	12/11	18.00	17.71	17.68	17.72		25/24	18.00	17.79
	25/0	18.00	17.78	17.75	17.79		50/0	18.00	17.86
16QAM	1/0	18.00	17.74	17.71	17.75	16QAM	1/0	18.00	17.82
64QAM	1/0	17.00	16.89	16.86	16.90	64QAM	1/0	17.00	16.97
256QAM	1/0	15.00	14.88	14.89	14.76	256QAM	1/0	15.00	14.92

LTE Band 38

P-sensor off

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595.0	38225/ 2617.5				37800/ 2575.0	38000/ 2595.0	38200/ 2615.0
QPSK	1/0	22.50	21.44	21.46	21.42	QPSK	1/0	22.50	21.43	21.51	21.41
	1/12	22.50	21.30	21.30	21.25		1/24	22.50	21.38	21.40	21.30
	1/24	22.50	21.29	21.38	21.34		1/49	22.50	21.39	21.39	21.40
	12/0	22.00	20.61	20.60	20.58		25/0	22.00	20.65	20.64	20.62
	12/6	22.00	20.55	20.53	20.50		25/12	22.00	20.59	20.57	20.55
	12/11	22.00	20.48	20.45	20.42		25/24	22.00	20.47	20.46	20.42
	25/0	22.00	20.37	20.37	20.37		50/0	22.00	20.45	20.42	20.39
16QAM	1/0	22.00	20.53	20.57	20.62	16QAM	1/0	22.00	20.53	20.66	20.61
64QAM	1/0	21.50	20.50	20.53	20.59	64QAM	1/0	21.50	20.50	20.62	20.58
256QAM	1/0	19.00	18.20	18.42	18.50	256QAM	1/0	19.00	18.30	18.50	18.54

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595.0	38175/ 2612.5				37850/ 2580.0	38000/ 2595.0	38150/ 2610.0
QPSK	1/0	22.50	21.50	21.60	21.50	QPSK	1/0	22.50	21.57	21.63	21.50
	1/38	22.50	21.47	21.46	21.42		1/49	22.50	21.50	21.56	21.48
	1/74	22.50	21.44	21.42	21.46		1/99	22.50	21.45	21.50	21.45
	36/0	22.00	20.78	20.77	20.75		50/0	22.00	20.85	20.83	20.82
	36/18	22.00	20.73	20.71	20.68		50/24	22.00	20.80	20.78	20.76
	36/35	22.00	20.65	20.62	20.54		50/49	22.00	20.72	20.66	20.65
	75/0	22.00	20.53	20.50	20.43		100/0	22.00	20.54	20.54	20.53
16QAM	1/0	22.00	20.63	20.76	20.67	16QAM	1/0	22.00	20.70	20.79	20.78
64QAM	1/0	21.50	20.55	20.60	20.70	64QAM	1/0	21.50	20.68	20.68	20.78
256QAM	1/0	19.00	18.32	18.58	18.64	256QAM	1/0	19.00	18.31	18.62	18.73

P-sensor off (HPUE)

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595.0	38225/ 2617.5				37800/ 2575.0	38000/ 2595.0	38200/ 2615.0
QPSK	1/0	23.00	21.86	21.92	21.83	QPSK	1/0	23.00	21.90	21.97	21.89
	1/12	23.00	21.79	21.77	21.71		1/24	23.00	21.84	21.84	21.78
	1/24	23.00	21.78	21.79	21.78		1/49	23.00	21.82	21.84	21.82
	12/0	22.50	20.14	21.08	21.10		25/0	22.50	21.19	21.15	21.17
	12/6	22.50	21.06	20.94	20.97		25/12	22.50	21.13	21.06	21.05
	12/11	22.50	20.93	20.87	20.91		25/24	22.50	21.09	20.95	20.98
	25/0	22.50	20.79	20.84	20.80		50/0	22.50	20.86	20.91	20.88
16QAM	1/0	22.50	20.94	21.04	21.04	16QAM	1/0	22.50	21.01	21.11	21.09
64QAM	1/0	22.00	20.92	20.96	21.00	64QAM	1/0	22.00	20.97	21.02	21.07
256QAM	1/0	19.50	18.66	18.92	18.97	256QAM	1/0	19.50	18.70	18.98	19.01

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595.0	38175/ 2612.5				37850/ 2580.0	38000/ 2595.0	38150/ 2610.0
QPSK	1/0	23.00	21.98	22.03	21.95	QPSK	1/0	23.00	22.05	22.08	22.00
	1/38	23.00	21.90	21.91	21.86		1/49	23.00	21.97	21.97	21.91
	1/74	23.00	21.89	21.88	21.89		1/99	23.00	21.95	21.94	21.94
	36/0	22.50	21.24	21.19	21.22		50/0	22.50	21.27	21.25	21.26
	36/18	22.50	21.17	21.10	21.13		50/24	22.50	21.16	21.13	21.18
	36/35	22.50	21.10	21.08	21.06		50/49	22.50	21.07	21.05	21.10
	75/0	22.50	20.94	20.97	20.92		100/0	22.50	21.01	21.01	20.97
16QAM	1/0	22.50	21.07	21.18	21.13	16QAM	1/0	22.50	21.11	21.24	21.18
64QAM	1/0	22.00	21.03	21.08	21.15	64QAM	1/0	22.00	21.08	21.13	21.20
256QAM	1/0	19.50	18.75	19.02	19.09	256QAM	1/0	19.50	18.81	19.07	19.14

P-sensor on

LTE B38/BW=5M		Average Conducted Power(dBm)				LTE B38/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37775/ 2572.5	38000/ 2595.0	38225/ 2617.5				37800/ 2575.0	38000/ 2595.0	38200/ 2615.0
QPSK	1/0	21.50	21.04	21.08	21.02	QPSK	1/0	21.50	21.13	21.17	21.11
	1/12	21.50	21.01	21.03	20.94		1/24	21.50	21.10	21.10	21.03
	1/24	21.50	20.95	20.97	20.90		1/49	21.50	21.04	21.06	20.99
	12/0	20.50	20.13	20.17	20.11		25/0	20.50	20.22	20.26	20.20
	12/6	20.50	20.06	20.06	19.99		25/12	20.50	20.15	20.15	20.08
	12/11	20.50	20.02	20.04	19.97		25/24	20.50	20.11	20.13	20.06
	25/0	20.50	19.97	20.01	19.94		50/0	20.50	20.08	20.10	19.98
16QAM	1/0	20.50	20.05	20.07	20.00	16QAM	1/0	20.50	20.14	20.16	20.09
64QAM	1/0	19.50	19.19	19.23	19.17	64QAM	1/0	19.50	19.09	19.09	19.02
256QAM	1/0	17.50	16.88	16.84	16.92	256QAM	1/0	17.50	16.76	16.78	16.83

LTE B38/BW=15M		Average Conducted Power(dBm)				LTE B38/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			37825/ 2577.5	38000/ 2595.0	38175/ 2612.5				37850/ 2580.0	38000/ 2595.0	38150/ 2610.0
QPSK	1/0	21.50	21.26	21.30	21.24	QPSK	1/0	21.50	21.34	21.38	21.32
	1/38	21.50	21.23	22.23	21.16		1/49	21.50	21.31	21.31	21.24
	1/74	21.50	21.17	21.19	21.12		1/99	21.50	21.25	21.27	21.20
	36/0	20.50	20.35	20.39	20.33		50/0	20.50	20.43	20.47	20.41
	36/18	20.50	20.28	20.28	20.21		50/24	20.50	20.36	20.36	20.29
	36/35	20.50	20.24	20.26	20.19		50/49	20.50	20.32	20.34	20.27
	75/0	20.50	20.18	20.21	20.15		100/0	20.50	20.29	20.30	20.23
16QAM	1/0	20.50	20.27	20.29	20.22	16QAM	1/0	20.50	20.35	20.37	20.30
64QAM	1/0	19.50	19.41	19.45	19.39	64QAM	1/0	19.50	19.49	19.48	19.44
256QAM	1/0	17.50	16.69	16.75	16.76	256QAM	1/0	17.50	16.88	16.92	16.94

LTE Band 41

P-sensor off

LTE B41/BW=5M		Average Conducted Power(dBm)				LTE B41/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39675/ 2498.5	40620/ 2593.0	41565/ 2687.5				39700/ 2501.0	40620/ 2593.0	41540/ 2685.0
QPSK	1/0	24.50	23.10	23.34	22.82	QPSK	1/0	24.50	23.14	23.39	22.91
	1/12	24.50	23.08	23.20	22.72		1/24	24.50	23.20	23.31	22.77
	1/24	24.50	23.00	23.28	22.70		1/49	24.50	23.08	23.36	22.69
	12/0	23.50	22.52	22.45	21.94		25/0	23.50	22.60	22.54	22.07
	12/6	23.50	22.46	22.33	21.86		25/12	23.50	22.51	22.47	21.95
	12/11	23.50	22.35	22.31	21.80		25/24	23.50	22.45	22.41	21.88
	25/0	23.50	22.16	22.26	21.77		50/0	23.50	22.30	22.32	21.81
16QAM	1/0	23.50	22.45	22.44	22.07	16QAM	1/0	23.50	22.57	22.52	22.17
64QAM	1/0	23.00	22.38	22.41	21.92	64QAM	1/0	23.00	22.45	22.45	21.96
256QAM	1/0	21.00	20.20	20.72	20.17	256QAM	1/0	21.00	20.26	20.75	20.19

LTE B41/BW=15M		Average Conducted Power(dBm)				LTE B41/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39725/ 2503.5	40620/ 2593.0	41515/ 2682.5				39750/ 2506.0	40620/ 2593.0	41490/ 2680.0
QPSK	1/0	24.50	23.24	23.40	22.97	QPSK	1/0	24.50	23.32	23.49	22.99
	1/38	24.50	23.24	23.36	22.81		1/49	24.50	23.32	23.46	22.88
	1/74	24.50	23.13	23.45	22.81		1/99	24.50	23.15	23.49	22.78
	36/0	23.50	22.65	22.62	22.15		50/0	23.50	22.72	22.75	22.23
	36/18	23.50	22.54	22.57	22.09		50/24	23.50	22.60	22.63	22.18
	36/35	23.50	22.46	22.49	21.96		50/49	23.50	22.52	22.58	22.06
	75/0	23.50	22.34	22.37	21.88		100/0	23.50	22.37	22.40	21.98
16QAM	1/0	23.50	22.58	22.57	22.15	16QAM	1/0	23.50	22.61	22.58	22.27
64QAM	1/0	23.00	22.51	22.52	22.07	64QAM	1/0	23.00	22.60	22.61	22.12
256QAM	1/0	21.00	20.37	20.77	20.29	256QAM	1/0	21.00	20.35	20.85	20.27

P-sensor off (HPUE)

LTE B41/BW=5M		Average Conducted Power(dBm)				LTE B41/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39675/ 2498.5	40620/ 2593.0	41565/ 2687.5				39700/ 2501.0	40620/ 2593.0	41540/ 2685.0
QPSK	1/0	25.00	23.54	23.77	23.27	QPSK	1/0	25.00	23.58	23.82	23.33
	1/12	25.00	23.57	23.67	23.13		1/24	25.00	23.62	23.74	23.20
	1/24	25.00	23.47	23.76	23.11		1/49	25.00	23.51	23.81	23.15
	12/0	24.00	22.82	22.86	22.37		25/0	24.00	22.96	22.93	22.41
	12/6	24.00	22.73	22.77	22.28		25/12	24.00	22.84	22.87	22.35
	12/11	24.00	22.65	22.72	22.24		25/24	24.00	22.76	22.79	22.32
	25/0	24.00	22.63	22.70	22.22		50/0	24.00	22.70	22.77	22.30
16QAM	1/0	24.00	22.92	22.87	22.53	16QAM	1/0	24.00	22.99	22.94	22.58
64QAM	1/0	23.50	22.85	22.87	22.33	64QAM	1/0	23.50	22.90	22.93	22.40
256QAM	1/0	21.50	20.68	21.15	20.59	256QAM	1/0	21.50	20.72	21.21	20.63

LTE B41/BW=15M		Average Conducted Power(dBm)				LTE B41/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39725/ 2503.5	40620/ 2593.0	41515/ 2682.5				39750/ 2506.0	40620/ 2593.0	41490/ 2680.0
QPSK	1/0	25.00	23.66	23.88	23.39	QPSK	1/0	25.00	23.73	23.93	23.44
	1/38	25.00	23.68	23.81	23.28		1/49	25.00	23.75	23.87	23.33
	1/74	25.00	23.58	23.85	23.22		1/99	25.00	23.64	23.91	23.27
	36/0	24.00	23.07	23.06	22.53		50/0	24.00	23.11	23.13	22.66
	36/18	24.00	22.96	22.94	22.48		50/24	24.00	23.04	23.05	22.54
	36/35	24.00	22.83	22.85	22.36		50/49	24.00	22.94	22.96	22.47
	75/0	24.00	22.78	22.83	22.34		100/0	24.00	22.85	22.87	22.39
16QAM	1/0	24.00	23.05	23.01	22.62	16QAM	1/0	24.00	23.09	23.07	22.67
64QAM	1/0	23.50	22.96	22.99	22.48	64QAM	1/0	23.50	23.01	23.04	22.53
256QAM	1/0	21.50	20.77	21.25	20.71	256QAM	1/0	21.50	20.83	21.30	20.76

P-sensor on

LTE B41/BW=5M		Average Conducted Power(dBm)				LTE B41/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39675/ 2498.5	40620/ 2593.0	41565/ 2687.5				39700/ 2501.0	40620/ 2593.0	41540/ 2685.0
QPSK	1/0	23.50	23.10	23.15	23.12	QPSK	1/0	23.50	23.17	23.22	23.19
	1/12	23.50	23.05	23.09	23.06		1/24	23.50	23.12	23.16	23.13
	1/24	23.50	23.01	23.04	23.02		1/49	23.50	23.08	23.11	23.09
	12/0	22.50	22.19	22.24	22.21		25/0	22.50	22.26	22.31	22.28
	12/6	22.50	22.10	22.14	22.11		25/12	22.50	22.17	22.21	22.18
	12/11	22.50	22.08	22.11	22.09		25/24	22.50	22.15	22.18	22.16
	25/0	22.50	22.14	22.19	22.16		50/0	22.50	22.21	22.26	22.23
16QAM	1/0	22.50	22.17	22.22	22.19	16QAM	1/0	22.50	22.24	22.29	22.26
64QAM	1/0	21.00	20.77	20.84	20.80	64QAM	1/0	21.00	20.82	20.88	20.85
256QAM	1/0	19.50	19.20	19.31	19.26	256QAM	1/0	19.50	19.26	19.37	19.32

LTE B41/BW=15M		Average Conducted Power(dBm)				LTE B41/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			39725/ 2503.5	40620/ 2593.0	41515/ 2682.5				39750/ 2506.0	40620/ 2593.0	41490/ 2680.0
QPSK	1/0	23.50	23.22	23.27	23.24	QPSK	1/0	23.50	23.39	23.40	23.37
	1/38	23.50	23.17	23.21	23.18		1/49	23.50	23.30	23.34	23.31
	1/74	23.50	23.13	23.16	23.14		1/99	23.50	23.26	23.29	23.27
	36/0	22.50	22.31	22.36	22.33		50/0	22.50	22.44	22.49	22.46
	36/18	22.50	22.22	22.26	22.23		50/24	22.50	22.35	22.39	22.36
	36/35	22.50	22.20	22.23	22.21		50/49	22.50	22.33	22.36	22.34
	75/0	22.50	22.26	22.31	22.28		100/0	22.50	22.39	22.44	22.41
16QAM	1/0	22.50	22.29	22.34	22.31	16QAM	1/0	22.50	22.42	22.47	22.44
64QAM	1/0	21.00	20.87	20.92	20.89	64QAM	1/0	21.00	20.92	20.97	20.94
256QAM	1/0	19.50	19.33	19.42	19.37	256QAM	1/0	19.50	19.39	19.46	19.43

LTE Band 42

P-sensor off

LTE B42/BW=5M		Average Conducted Power(dBm)				LTE B42/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42115/ 3452.5	42590/ 3500.0	43065/ 3547.5				42140/ 3455.0	42590/ 3500.0	43040/ 3545.0
QPSK	1/0	21.00	20.72	20.01	20.79	QPSK	1/0	21.00	20.77	20.11	20.93
	1/12	21.00	20.61	19.77	20.78		1/24	21.00	20.63	19.90	20.84
	1/24	21.00	20.26	20.38	20.75		1/49	21.00	20.30	20.46	20.81
	12/0	20.00	19.75	19.31	19.54		25/0	20.00	19.84	19.37	19.66
	12/6	20.00	19.63	19.25	19.46		25/12	20.00	19.77	19.25	19.52
	12/11	20.00	19.58	19.17	19.42		25/24	20.00	19.69	19.16	19.50
	25/0	20.00	19.45	19.05	19.41		50/0	20.00	19.59	19.10	19.48
16QAM	1/0	20.00	19.45	19.99	19.50	16QAM	1/0	20.00	19.44	20.04	19.60
64QAM	1/0	20.00	18.85	18.50	19.04	64QAM	1/0	20.00	18.91	18.53	19.15
256QAM	1/0	17.00	16.10	15.82	15.51	256QAM	1/0	17.00	16.18	15.91	15.52

LTE B42/BW=15M		Average Conducted Power(dBm)				LTE B42/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42165/ 3457.5	42590/ 3500.0	43015/ 3542.5				42190/ 3460.0	42590/ 3500.0	42990/ 3540.0
QPSK	1/0	21.00	20.82	20.21	20.94	QPSK	1/0	21.00	20.85	20.25	21.06
	1/38	21.00	20.67	19.92	20.90		1/49	21.00	20.80	19.99	20.90
	1/74	21.00	20.38	20.45	20.83		1/99	21.00	20.40	20.56	20.94
	36/0	20.00	19.99	19.44	19.74		50/0	20.50	20.06	19.53	19.88
	36/18	20.00	19.82	19.37	19.62		50/24	20.50	19.97	19.48	19.75
	36/35	20.00	19.70	19.28	19.59		50/49	20.50	19.85	19.36	19.66
	75/0	20.00	19.59	19.17	19.50		100/0	20.50	19.71	19.24	19.57
16QAM	1/0	20.00	19.57	20.16	19.58	16QAM	1/0	20.50	19.52	20.17	19.69
64QAM	1/0	20.00	19.02	18.54	19.18	64QAM	1/0	20.00	19.00	18.60	19.26
256QAM	1/0	17.00	16.20	15.92	15.64	256QAM	1/0	17.00	16.31	15.96	15.67

P-sensor off (HPUE)

LTE B42/BW=5M		Average Conducted Power(dBm)				LTE B42/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42115/ 3452.5	42590/ 3500.0	43065/ 3547.5				42140/ 3455.0	42590/ 3500.0	43040/ 3545.0
QPSK	1/0	21.50	21.16	20.50	21.29	QPSK	1/0	21.50	21.20	20.55	21.35
	1/12	21.50	21.05	20.25	21.19		1/24	21.50	21.10	20.32	21.26
	1/24	21.50	20.69	20.82	21.18		1/49	21.50	20.73	20.87	21.22
	12/0	20.50	20.20	20.04	20.08		25/0	20.50	20.31	20.16	20.17
	12/6	20.50	20.12	19.97	20.00		25/12	20.50	20.23	20.10	20.13
	12/11	20.50	20.07	19.88	19.94		25/24	20.50	20.11	20.03	20.05
	25/0	20.50	19.93	19.51	19.86		50/0	20.50	20.00	19.58	19.94
16QAM	1/0	20.50	19.85	20.44	19.97	16QAM	1/0	20.50	19.92	20.51	20.02
64QAM	1/0	20.50	19.33	18.91	19.50	64QAM	1/0	20.50	19.38	18.97	19.57
256QAM	1/0	17.50	16.57	16.28	15.96	256QAM	1/0	17.50	16.61	16.34	16.00

LTE B42/BW=15M		Average Conducted Power(dBm)				LTE B42/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42165/ 3457.5	42590/ 3500.0	43015/ 3542.5				42190/ 3460.0	42590/ 3500.0	42990/ 3540.0
QPSK	1/0	21.50	21.28	20.61	21.41	QPSK	1/0	21.50	21.35	20.66	21.46
	1/38	21.50	21.16	20.39	21.34		1/49	21.50	21.23	20.45	21.39
	1/74	21.50	20.80	20.91	21.29		1/99	21.50	20.86	20.97	21.34
	36/0	20.50	20.38	20.21	20.26		50/0	20.50	20.46	20.32	20.37
	36/18	20.50	20.25	20.16	20.21		50/24	20.50	20.33	20.24	20.29
	36/35	20.50	20.19	20.09	20.13		50/49	20.50	20.27	20.12	20.18
	75/0	20.50	20.08	19.64	19.98		100/0	20.50	20.15	19.68	20.03
16QAM	1/0	20.50	19.98	20.58	20.06	16QAM	1/0	20.50	20.02	20.64	20.11
64QAM	1/0	20.50	19.44	19.03	19.65	64QAM	1/0	20.50	19.49	19.08	19.70
256QAM	1/0	17.50	16.66	16.38	16.08	256QAM	1/0	17.50	16.72	16.43	16.13

P-sensor on

LTE B42/BW=5M		Average Conducted Power(dBm)				LTE B42/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42115/ 3452.5	42590/ 3500.0	43065/ 3547.5				42140/ 3455.0	42590/ 3500.0	43040/ 3545.0
QPSK	1/0	20.00	19.46	19.52	19.45	QPSK	1/0	20.00	19.55	19.61	19.54
	1/12	20.00	19.41	19.45	19.41		1/24	20.00	19.50	19.54	19.50
	1/24	20.00	19.38	19.44	19.38		1/49	20.00	19.47	19.53	19.47
	12/0	19.00	18.55	18.61	18.54		25/0	19.00	18.64	18.70	18.63
	12/6	19.00	18.46	18.50	18.46		25/12	19.00	18.55	18.59	18.55
	12/11	19.00	18.45	18.51	18.45		25/24	19.00	18.54	18.60	18.54
	25/0	19.00	18.50	18.56	18.49		50/0	19.00	18.59	18.65	18.58
16QAM	1/0	19.00	18.53	18.59	18.52	16QAM	1/0	19.00	18.62	18.68	18.61
64QAM	1/0	18.00	17.88	17.92	17.76	64QAM	1/0	18.00	17.84	17.81	17.79
256QAM	1/0	16.00	15.76	15.78	15.70	256QAM	1/0	16.00	15.68	15.72	15.75

LTE B42/BW=15M		Average Conducted Power(dBm)				LTE B42/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			42165/ 3457.5	42590/ 3500.0	43015/ 3542.5				42190/ 3460.0	42590/ 3500.0	42990/ 3540.0
QPSK	1/0	20.00	19.68	19.74	19.67	QPSK	1/0	20.00	19.76	19.82	19.75
	1/38	20.00	19.63	19.67	19.63		1/49	20.00	19.71	19.75	19.71
	1/74	20.00	19.60	19.66	19.60		1/99	20.00	19.68	19.74	19.68
	36/0	19.00	18.77	18.83	18.76		50/0	19.00	18.85	18.91	18.84
	36/18	19.00	18.68	18.72	18.68		50/24	19.00	18.76	18.80	18.76
	36/35	19.00	18.67	18.73	18.67		50/49	19.00	18.75	18.81	18.75
	75/0	19.00	18.72	18.78	18.71		100/0	19.00	18.80	18.86	18.79
16QAM	1/0	19.00	18.75	18.81	18.74	16QAM	1/0	19.00	18.83	18.89	18.82
64QAM	1/0	18.00	17.86	17.81	17.76	64QAM	1/0	18.00	17.88	17.93	17.96
256QAM	1/0	16.00	15.76	15.78	15.73	256QAM	1/0	16.00	15.88	15.92	15.86

LTE Band 43

P-sensor off

LTE B43/BW=5M		Average Conducted Power(dBm)				LTE B43/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44615/ 3702.5	45090/ 3750.0	45565/ 3797.5				44640/ 3705.0	45090/ 3750.0	45540/ 3795.0
QPSK	1/0	21.00	20.22	20.06	19.70	QPSK	1/0	21.00	20.30	20.16	19.79
	1/12	21.00	20.41	20.29	19.85		1/24	21.00	20.44	20.31	19.93
	1/24	21.00	20.21	20.29	20.09		1/49	21.00	20.23	20.38	20.10
	12/0	20.00	19.14	19.13	19.36		25/0	20.00	19.23	19.25	19.42
	12/6	20.00	19.09	19.10	19.31		25/12	20.00	19.17	19.22	19.38
	12/11	20.00	19.96	19.05	19.22		25/24	20.00	19.03	19.15	19.24
	25/0	20.00	18.80	18.98	19.12		50/0	20.00	18.92	19.07	19.21
16QAM	1/0	20.00	19.40	19.07	19.04	16QAM	1/0	20.00	19.47	19.18	19.10
64QAM	1/0	19.00	18.22	18.32	18.36	64QAM	1/0	19.00	18.33	18.38	18.47
256QAM	1/0	17.00	15.28	15.06	15.22	256QAM	1/0	17.00	15.28	15.13	15.21

LTE B43/BW=15M		Average Conducted Power(dBm)				LTE B43/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44665/ 3707.5	40590/ 3750.0	45515/ 3792.5				44690/ 3710.0	45090/ 3750.0	45490/ 3790.0
QPSK	1/0	21.00	20.34	20.16	19.80	QPSK	1/0	21.00	20.39	20.27	19.92
	1/38	21.00	20.47	20.40	20.02		1/49	21.00	20.61	20.48	20.12
	1/74	21.00	20.30	20.43	20.19		1/99	21.00	20.45	20.48	20.23
	36/0	20.00	19.29	19.31	19.55		50/0	20.00	19.33	19.36	19.65
	36/18	20.00	19.15	19.26	19.43		50/24	20.00	19.21	19.24	19.58
	36/35	20.00	19.07	19.19	19.37		50/49	20.00	19.12	29.17	19.44
	75/0	20.00	18.98	19.14	19.32		100/0	20.00	19.07	19.10	19.31
16QAM	1/0	20.00	19.48	19.27	19.11	16QAM	1/0	20.00	19.51	19.33	19.19
64QAM	1/0	19.00	18.38	18.50	18.53	64QAM	1/0	19.00	18.47	18.49	18.54
256QAM	1/0	17.00	15.38	15.15	15.36	256QAM	1/0	17.00	15.38	15.22	15.33

P-sensor off (HPUE)

LTE B43/BW=5M		Average Conducted Power(dBm)				LTE B43/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44615/ 3702.5	45090/ 3750.0	45565/ 3797.5				44640/ 3705.0	45090/ 3750.0	45540/ 3795.0
QPSK	1/0	21.50	20.66	20.52	20.15	QPSK	1/0	21.50	20.70	20.57	20.21
	1/12	21.50	20.85	20.73	20.34		1/24	21.50	20.90	20.80	20.41
	1/24	21.50	20.68	20.75	20.52		1/49	21.50	20.72	20.80	20.56
	12/0	20.50	19.54	19.69	19.76		25/0	20.50	19.63	19.76	19.84
	12/6	20.50	19.47	19.60	19.72		25/12	20.50	19.56	19.68	19.81
	12/11	20.50	19.35	19.55	19.68		25/24	20.50	19.49	19.53	19.75
	25/0	20.50	19.30	19.42	19.61		50/0	20.50	19.37	19.49	19.69
16QAM	1/0	20.50	19.82	19.55	19.51	16QAM	1/0	20.50	19.89	19.62	19.56
64QAM	1/0	19.50	18.71	18.79	18.82	64QAM	1/0	19.50	18.76	18.85	18.89
256QAM	1/0	17.50	15.71	15.52	15.66	256QAM	1/0	17.50	15.75	15.58	15.70

LTE B43/BW=15M		Average Conducted Power(dBm)				LTE B43/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44665/ 3707.5	40590/ 3750.0	45515/ 3792.5				44690/ 3710.0	45090/ 3750.0	45490/ 3790.0
QPSK	1/0	21.50	20.78	20.63	20.27	QPSK	1/0	21.50	20.85	20.68	20.32
	1/38	21.50	20.96	20.87	20.49		1/49	21.50	21.03	20.93	20.54
	1/74	21.50	20.79	20.84	20.63		1/99	21.50	20.85	20.90	20.68
	36/0	20.50	19.73	19.81	19.95		50/0	20.50	19.83	19.86	20.08
	36/18	20.50	19.66	19.77	19.90		50/24	20.50	19.72	19.74	19.95
	36/35	20.50	19.58	19.69	19.84		50/49	20.50	19.63	19.65	19.87
	75/0	20.50	19.45	19.55	19.73		100/0	20.50	19.52	19.59	19.78
16QAM	1/0	20.50	19.95	19.69	19.60	16QAM	1/0	20.50	19.99	19.75	19.65
64QAM	1/0	19.50	18.82	18.91	18.97	64QAM	1/0	19.50	18.87	18.96	19.02
256QAM	1/0	17.50	15.80	15.62	15.78	256QAM	1/0	17.50	15.86	15.67	15.83

P-sensor on

LTE B43/BW=5M		Average Conducted Power(dBm)				LTE B43/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44615/ 3702.5	45090/ 3750.0	45565/ 3797.5				44640/ 3705.0	45090/ 3750.0	45540/ 3795.0
QPSK	1/0	20.00	19.46	19.54	19.50	QPSK	1/0	20.00	19.55	19.63	19.59
	1/12	20.00	19.41	19.51	19.43		1/24	20.00	19.50	19.60	19.52
	1/24	20.00	19.39	19.45	19.41		1/49	20.00	19.48	19.54	19.50
	12/0	19.00	18.55	18.63	18.59		25/0	19.00	18.64	18.72	18.68
	12/6	19.00	18.46	18.56	18.48		25/12	19.00	18.55	18.65	18.57
	12/11	19.00	18.46	18.52	18.48		25/24	19.00	18.55	18.61	18.57
	25/0	19.00	18.50	18.58	18.54		50/0	19.00	18.59	18.67	18.63
16QAM	1/0	19.00	18.53	18.61	18.57	16QAM	1/0	19.00	18.62	18.70	18.66
64QAM	1/0	18.00	17.62	17.74	17.68	64QAM	1/0	18.00	17.74	17.86	17.82
256QAM	1/0	16.00	15.77	15.71	15.69	256QAM	1/0	16.00	15.84	15.71	15.79

LTE B43/BW=15M		Average Conducted Power(dBm)				LTE B43/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			44665/ 3707.5	40590/ 3750.0	45515/ 3792.5				44690/ 3710.0	45090/ 3750.0	45490/ 3790.0
QPSK	1/0	20.00	19.68	19.76	19.72	QPSK	1/0	20.00	19.76	19.84	19.80
	1/38	20.00	19.63	19.73	19.65		1/49	20.00	19.71	19.81	19.73
	1/74	20.00	19.61	19.67	19.63		1/99	20.00	19.69	19.75	19.71
	36/0	19.00	18.77	18.85	18.81		50/0	19.00	18.85	18.93	18.89
	36/18	19.00	18.68	18.78	18.70		50/24	19.00	18.76	18.86	18.78
	36/35	19.00	18.68	18.74	18.70		50/49	19.00	18.76	18.82	18.78
	75/0	19.00	18.72	18.80	18.76		100/0	19.00	18.80	18.88	18.84
16QAM	1/0	19.00	18.75	18.83	18.79	16QAM	1/0	19.00	18.83	18.91	18.87
64QAM	1/0	18.00	17.69	17.76	17.78	64QAM	1/0	18.00	17.89	17.92	17.75
256QAM	1/0	16.00	15.88	15.84	15.83	256QAM	1/0	16.00	15.84	15.81	15.76

LTE Band 48

P-sensor off

LTE B48/BW=5M		Average Conducted Power(dBm)				LTE B48/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			55265/ 3550.0	55990/ 3625.0	56715/ 3697.5				55290/ 3555.0	55990/ 3625.0	56690/ 3695.0
QPSK	1/0	21.50	20.82	20.77	20.57	QPSK	1/0	21.50	20.86	20.82	20.63
	1/12	21.50	20.91	20.83	20.71		1/24	21.50	20.96	20.90	20.78
	1/24	21.50	20.96	20.75	20.65		1/49	21.50	21.00	20.80	20.69
	12/0	21.00	20.35	19.82	19.84		25/0	21.00	20.41	19.95	19.98
	12/6	21.00	20.20	19.77	19.80		25/12	21.00	20.28	19.84	19.85
	12/11	21.00	20.12	19.71	19.73		25/24	21.00	20.16	19.78	19.80
	25/0	21.00	19.99	19.67	19.68		50/0	21.00	20.06	19.74	19.76
16QAM	1/0	20.50	19.92	19.76	19.80	16QAM	1/0	20.50	19.99	19.83	19.85
64QAM	1/0	19.50	19.21	18.98	18.98	64QAM	1/0	19.50	19.26	19.04	19.05
256QAM	1/0	17.50	15.83	15.93	15.76	256QAM	1/0	17.50	15.87	15.99	15.80

LTE B48/BW=15M		Average Conducted Power(dBm)				LTE B48/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			55315/ 3557.5	55990/ 3625.0	56665/ 3692.5				55340/ 3560.0	55990/ 3625.0	56640/ 3690.0
QPSK	1/0	21.50	20.94	20.88	20.69	QPSK	1/0	21.50	21.01	20.93	20.74
	1/38	21.50	21.02	20.97	20.86		1/49	21.50	21.09	21.03	20.91
	1/74	21.50	21.07	20.84	20.76		1/99	21.50	21.13	20.90	20.81
	36/0	21.00	20.48	20.07	20.02		50/0	21.00	20.52	20.14	20.17
	36/18	21.00	20.33	19.92	19.94		50/24	21.00	20.45	20.06	20.09
	36/35	21.00	20.25	19.88	19.86		50/49	21.00	20.33	19.93	19.95
	75/0	21.00	20.14	19.80	19.80		100/0	21.00	20.21	19.84	19.85
16QAM	1/0	20.50	20.05	19.90	19.89	16QAM	1/0	20.50	20.09	19.96	19.94
64QAM	1/0	19.50	19.32	19.10	19.13	64QAM	1/0	19.50	19.37	19.15	19.18
256QAM	1/0	17.50	15.92	16.03	15.88	256QAM	1/0	17.50	15.98	16.08	15.93

P-sensor on

LTE B48/BW=5M		Average Conducted Power(dBm)				LTE B48/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			55265/ 3550.0	55990/ 3625.0	56715/ 3697.5				55290/ 3555.0	55990/ 3625.0	56690/ 3695.0
QPSK	1/0	20.50	20.04	20.08	19.95	QPSK	1/0	20.50	20.13	20.17	20.04
	1/12	20.50	20.01	20.04	19.91		1/24	20.50	20.10	20.13	20.00
	1/24	20.50	19.94	19.99	19.84		1/49	20.50	20.03	20.08	19.93
	12/0	19.50	19.13	19.17	19.04		25/0	19.50	19.22	19.26	19.13
	12/6	19.50	19.06	19.09	18.96		25/12	19.50	19.15	19.18	19.05
	12/11	19.50	19.01	19.06	18.91		25/24	19.50	19.10	19.15	19.00
	25/0	19.50	19.08	19.12	18.99		50/0	19.50	19.17	19.21	19.08
16QAM	1/0	19.50	19.11	19.15	19.02	16QAM	1/0	19.50	19.20	19.24	19.11
64QAM	1/0	18.50	18.27	18.21	18.19	64QAM	1/0	18.50	18.33	18.29	18.21
256QAM	1/0	16.50	16.41	16.22	16.10	256QAM	1/0	16.50	16.21	16.17	16.24

LTE B48/BW=15M		Average Conducted Power(dBm)				LTE B48/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			55315/ 3557.5	55990/ 3625.0	56665/ 3692.5				55340/ 3560.0	55990/ 3625.0	56640/ 3690.0
QPSK	1/0	20.50	20.26	20.30	20.17	QPSK	1/0	20.50	20.10	20.38	20.25
	1/38	20.50	20.23	20.26	20.13		1/49	20.50	20.09	20.30	20.21
	1/74	20.50	20.16	20.21	20.06		1/99	20.50	20.04	20.28	20.14
	36/0	19.50	19.35	19.39	19.26		50/0	19.50	19.43	19.47	19.34
	36/18	19.50	19.28	19.31	19.18		50/24	19.50	19.36	19.39	19.26
	36/35	19.50	19.23	19.28	19.13		50/49	19.50	19.31	19.36	19.21
	75/0	19.50	19.30	19.34	19.21		100/0	19.50	19.38	19.42	19.29
16QAM	1/0	19.50	19.33	19.37	19.24	16QAM	1/0	19.50	19.41	19.45	19.32
64QAM	1/0	18.50	18.30	18.39	18.33	64QAM	1/0	18.50	18.32	18.38	18.31
256QAM	1/0	16.50	16.27	16.25	16.34	256QAM	1/0	16.50	16.41	16.48	16.37

LTE Band 66

P-sensor off

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745.0	132665/ 1779.3				131987/ 1711.5	132322/ 1745.0	132657/ 1778.5
QPSK	1/0	24.00	23.29	23.36	23.25	QPSK	1/8	24.00	23.36	23.40	23.30
	1/2	24.00	23.52	23.36	23.45		1/14	24.00	23.59	23.42	23.52
	1/5	24.00	23.52	23.50	23.59		1/15	24.00	23.59	23.54	23.65
	3/0	23.50	22.79	22.63	22.69		8/0	23.50	22.81	22.70	22.73
	3/1	23.50	22.70	22.60	22.61		8/4	23.50	22.76	22.64	22.66
	3/2	23.50	22.66	22.52	22.54		8/7	23.50	22.63	22.55	22.58
	6/0	23.50	22.51	23.42	22.46		15/6	23.50	22.58	23.50	22.52
16QAM	1/0	23.00	22.51	22.96	22.62	16QAM	1/0	23.00	22.59	23.02	22.69
64QAM	1/0	22.00	21.61	22.72	21.69	64QAM	1/0	22.00	21.68	22.77	21.77
256QAM	1/0	20.00	18.06	18.62	18.74	256QAM	1/0	20.00	18.11	18.66	18.80

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131997/ 1715.5	132322/ 1745.0	132647/ 1777.5				132022/ 1715.0	132322/ 1745.0	132622/ 1775.0
QPSK	1/0	24.00	23.44	23.47	23.36	QPSK	1/0	24.00	23.48	23.52	23.42
	1/12	24.00	23.66	23.50	23.60		1/24	24.00	23.71	23.57	23.67
	1/24	24.00	23.66	23.60	23.69		1/49	24.00	23.70	23.65	23.73
	12/0	23.50	22.84	22.74	22.76		25/0	23.50	22.96	22.85	22.83
	12/6	23.50	22.77	22.69	22.71		25/12	23.50	22.87	22.75	22.78
	12/11	23.50	22.70	22.61	22.65		25/24	23.50	22.77	22.69	22.70
	25/0	23.50	22.62	23.58	22.57		50/0	23.50	22.69	23.65	22.65
16QAM	1/0	23.00	22.64	23.08	22.77	16QAM	1/0	23.00	22.71	23.15	22.82
64QAM	1/0	22.00	21.72	22.85	21.85	64QMA	1/0	22.00	21.77	22.91	21.92
256QAM	1/0	20.00	18.18	18.70	18.87	256QMA	1/0	20.00	18.22	18.76	18.91

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			132047/ 2117.5	132322/ 2145.0	132597/ 2192.5				132072/ 1720.0	132322/ 1745.0	132572/ 1770.0
QPSK	1/0	24.00	23.56	23.58	23.48	QPSK	1/0	24.00	23.63	23.63	23.53
	1/38	24.00	23.77	23.64	23.75		1/49	24.00	23.84	23.70	23.80
	1/74	24.00	23.77	23.69	23.80		1/99	24.00	23.83	23.75	23.85
	36/0	23.50	23.07	22.94	22.95		50/0	23.50	23.14	23.05	23.06
	36/18	23.50	23.94	22.82	22.83		50/24	23.50	23.06	22.96	22.94
	36/35	23.50	23.80	22.79	22.76		50/49	23.50	22.95	22.84	22.86
	75/0	23.50	22.77	23.71	22.69		100/0	23.50	22.84	23.75	22.74
16QAM	1/0	23.00	22.77	23.22	22.86	16QAM	1/0	23.00	22.81	23.28	22.91
64QAM	1/0	22.00	21.83	22.97	22.00	64QAM	1/0	22.00	21.88	23.02	22.05
256QAM	1/0	20.00	18.27	18.80	18.99	256QAM	1/0	20.00	18.33	18.85	19.04

P-sensor on

LTE B66/BW=1.4M		Average Conducted Power(dBm)				LTE B66/BW=3M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131979/ 1710.7	132322/ 1745.0	132665/ 1779.3				131987/ 1711.5	132322/ 1745.0	132657/ 1778.5
QPSK	1/0	19.00	18.44	18.49	18.46	QPSK	1/8	19.00	18.52	18.57	18.54
	1/2	19.00	18.41	18.45	18.43		1/14	19.00	18.49	18.53	18.51
	1/5	19.00	18.38	18.42	18.40		1/15	19.00	18.46	18.50	18.48
	3/0	18.00	17.53	17.53	17.55		8/0	18.00	17.61	17.61	17.63
	3/1	18.00	17.46	17.52	17.48		8/4	18.00	17.54	17.60	17.56
	3/2	18.00	17.45	17.49	17.47		8/7	18.00	17.53	17.57	17.55
	6/0	18.00	17.48	17.53	17.50		15/6	18.00	17.56	17.61	17.58
16QAM	1/0	18.00	17.51	17.56	17.53	16QAM	1/0	18.00	17.59	17.64	17.61
64QAM	1/0	17.00	16.66	16.73	16.69	64QAM	1/0	17.00	16.72	16.80	16.75
256QAM	1/0	15.00	14.62	14.70	14.64	256QAM	1/0	15.00	14.69	14.77	14.71

LTE B66/BW=5M		Average Conducted Power(dBm)				LTE B66/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			131997/ 1715.5	132322/ 1745.0	132647/ 1777.5				132022/ 1715.0	132322/ 1745.0	132622/ 1775.0
QPSK	1/0	19.00	18.57	18.62	18.59	QPSK	1/0	19.00	18.61	18.66	18.63
	1/12	19.00	18.54	18.58	18.56		1/24	19.00	18.58	18.62	18.60
	1/24	19.00	18.51	18.55	18.53		1/49	19.00	18.55	18.59	18.57
	12/0	18.00	17.66	17.66	17.68		25/0	18.00	17.70	17.70	17.72
	12/6	18.00	17.59	17.65	17.61		25/12	18.00	17.63	17.69	17.65
	12/11	18.00	17.58	17.62	17.60		25/24	18.00	17.62	17.66	17.64
	25/0	18.00	17.61	17.66	17.63		50/0	18.00	17.65	17.70	17.67
16QAM	1/0	18.00	17.64	17.69	17.66	16QAM	1/0	18.00	17.68	17.73	17.70
64QAM	1/0	17.00	16.78	16.84	16.81	64QMA	1/0	17.00	16.83	16.89	16.86
256QAM	1/0	15.00	14.73	14.80	14.75	256QMA	1/0	15.00	14.77	14.85	14.79

LTE B66/BW=15M		Average Conducted Power(dBm)				LTE B66/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			132047/ 2117.5	132322/ 2145.0	132597/ 2192.5				132072/ 1720.0	132322/ 1745.0	132572/ 1770.0
QPSK	1/0	19.00	18.70	18.75	18.72	QPSK	1/0	19.00	18.83	18.89	18.85
	1/38	19.00	18.67	18.71	18.69		1/49	19.00	18.80	18.84	18.82
	1/74	19.00	18.64	18.68	18.66		1/99	19.00	18.77	18.81	18.79
	36/0	18.00	17.79	17.79	17.81		50/0	18.00	17.92	17.92	17.94
	36/18	18.00	17.72	17.78	17.74		50/24	18.00	17.85	17.91	17.87
	36/35	18.00	17.71	17.75	17.73		50/49	18.00	17.84	17.88	17.86
	75/0	18.00	17.74	17.79	17.76		100/0	18.00	17.81	17.85	17.81
16QAM	1/0	18.00	17.77	17.82	17.79	16QAM	1/0	18.00	17.72	17.73	17.70
64QAM	1/0	17.00	16.87	16.93	16.91	64QAM	1/0	17.00	16.92	16.96	16.93
256QAM	1/0	15.00	14.82	14.90	14.86	256QAM	1/0	15.00	14.88	14.94	14.91

LTE Band 71
P-sensor off

LTE B71/BW=5M		Average Conducted Power(dBm)				LTE B71/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			133147/ 665.5	133297/ 680.5	133447/ 695.5				133172/ 668.0	133297/ 680.5	133422/ 693.0
QPSK	1/0	24.00	23.56	23.80	23.60	QPSK	1/0	24.00	23.60	23.85	23.66
	1/12	24.00	23.68	23.42	23.41		1/24	24.00	23.73	23.49	23.48
	1/24	24.00	23.68	23.61	23.63		1/49	24.00	23.72	23.66	23.67
	12/0	23.50	22.95	22.87	22.91		25/0	23.50	23.07	22.91	22.96
	12/6	23.50	22.89	22.80	22.84		25/12	23.50	22.95	22.83	22.87
	12/11	23.50	22.83	22.72	22.76		25/24	23.50	22.88	22.75	22.82
	25/0	23.50	22.74	22.62	22.65		50/0	23.50	22.81	22.69	22.73
16QAM	1/0	23.00	22.62	22.60	22.86	16QAM	1/0	23.00	22.69	22.67	22.91
64QAM	1/0	23.00	21.65	22.01	21.88	64QAM	1/0	23.00	21.70	22.07	21.95
256QAM	1/0	20.00	18.25	18.98	18.86	256QAM	1/0	20.00	18.29	19.04	18.90

LTE B71/BW=15M		Average Conducted Power(dBm)				LTE B71/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			133197/ 670.5	133297/ 680.5	133397/ 690.5				133222/ 673.0	133297/ 680.5	133372/ 688.0
QPSK	1/0	24.00	23.68	23.91	23.72	QPSK	1/0	24.00	23.75	23.96	23.77
	1/38	24.00	23.79	23.56	23.56		1/49	24.00	23.86	23.62	23.61
	1/74	24.00	23.79	23.70	23.74		1/99	24.00	23.85	23.76	23.79
	36/0	23.50	23.15	23.02	23.04		50/0	23.50	23.24	23.10	23.15
	36/18	23.50	23.07	22.91	22.93		50/24	23.50	23.18	22.96	23.06
	36/35	23.50	22.95	22.82	22.84		50/49	23.50	23.05	22.85	22.97
	75/0	23.50	22.89	22.75	22.77		100/0	23.50	22.96	22.79	22.82
16QAM	1/0	23.00	22.75	22.74	22.95	16QAM	1/0	23.00	22.79	22.80	23.00
64QAM	1/0	23.00	21.76	22.13	22.03	64QAM	1/0	23.00	21.81	22.18	22.08
256QAM	1/0	20.00	18.34	19.08	18.98	256QAM	1/0	20.00	18.40	19.13	19.03

P-sensor on

LTE B71/BW=5M		Average Conducted Power(dBm)				LTE B71/BW=10M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			133147/ 665.5	133297/ 680.5	133447/ 695.5				133172/ 668.0	133297/ 680.5	133422/ 693.0
QPSK	1/0	23.00	22.61	22.66	22.63	QPSK	1/0	23.00	22.65	22.70	22.67
	1/12	23.00	22.56	22.62	22.58		1/24	23.00	22.60	22.66	22.62
	1/24	23.00	22.53	22.57	22.55		1/49	23.00	22.57	22.61	22.59
	12/0	22.00	21.70	21.70	21.72		25/0	22.00	21.74	21.74	21.76
	12/6	22.00	21.61	21.69	21.63		25/12	22.00	21.65	21.73	21.67
	12/11	22.00	21.60	21.64	21.62		25/24	22.00	21.64	21.68	21.66
	25/0	22.00	21.65	21.70	21.67		50/0	22.00	21.69	21.74	21.71
16QAM	1/0	22.00	21.68	21.73	21.70	16QAM	1/0	22.00	21.72	21.77	21.74
64QAM	1/0	21.00	20.71	20.77	20.74	64QAM	1/0	21.00	20.75	20.82	20.79
256QAM	1/0	19.00	18.70	18.81	18.76	256QAM	1/0	19.00	18.76	18.86	18.83

LTE B71/BW=15M		Average Conducted Power(dBm)				LTE B71/BW=20M		Average Conducted Power(dBm)			
Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)			Modula-tion	RB Size/ Offset	Max. Tune-up (dBm)	Channel/Frequency(MHz)		
			133197/ 670.5	133297/ 680.5	133397/ 690.5				133222/ 673.0	133297/ 680.5	133372/ 688.0
QPSK	1/0	23.00	22.74	22.79	22.76	QPSK	1/0	23.00	22.87	22.92	22.89
	1/38	23.00	22.69	22.75	22.71		1/49	23.00	22.82	22.88	22.84
	1/74	23.00	22.66	22.70	22.68		1/99	23.00	22.79	22.83	22.81
	36/0	22.00	21.83	21.83	21.85		50/0	22.00	21.91	21.96	21.93
	36/18	22.00	21.74	21.82	21.76		50/24	22.00	21.87	21.95	21.89
	36/35	22.00	21.73	21.77	21.75		50/49	22.00	21.86	21.90	21.88
	75/0	22.00	21.78	21.83	21.80		100/0	22.00	21.91	21.96	21.93
16QAM	1/0	22.00	21.81	21.86	21.83	16QAM	1/0	22.00	21.94	21.99	21.96
64QAM	1/0	21.00	20.82	20.87	20.83	64QAM	1/0	21.00	20.85	20.92	20.87
256QAM	1/0	19.00	18.84	18.90	18.88	256QAM	1/0	19.00	18.88	18.94	18.91

9.3. CONDUCTED POWER MEASUREMENTS OF 5G NR Band

NR n2 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	5	370500	1852.5	PI/2 BPSK	1	1	23.00	22.75
		376000	1880.0	PI/2 BPSK	1	1	23.00	22.69
		381500	1907.5	PI/2 BPSK	1	1	23.00	22.60
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	10	371000	1855.0	PI/2 BPSK	1	1	23.00	22.81
		376000	1880.0	PI/2 BPSK	1	1	23.00	22.77
		381000	1905.0	PI/2 BPSK	1	1	23.00	22.67
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	15	371500	1857.5	PI/2 BPSK	1	1	23.00	22.86
		376000	1880.0	PI/2 BPSK	1	1	23.00	22.85
		380500	1902.5	PI/2 BPSK	1	1	23.00	22.72
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	20	372000	1860.0	PI/2 BPSK	1	1	23.00	22.90
					1	104	23.00	22.81
					100	0	23.00	22.87
				QPSK	1	1	23.00	22.98
					1	104	23.00	22.95
					100	0	23.00	22.34
				16QAM	1	1	22.50	21.97
					1	104	22.50	22.17
					100	0	22.50	21.21
				64QAM	1	1	21.50	20.61
					1	104	21.50	21.25
					100	0	21.50	20.61
				256QAM	1	1	20.00	19.07
					1	104	20.00	19.34
					100	0	20.00	19.19
		376000	1880.0	PI/2 BPSK	1	1	23.00	22.90
					1	104	23.00	22.77
					100	0	23.00	22.86
				QPSK	1	1	23.00	22.99
					1	104	23.00	22.67
					100	0	23.00	22.71
				16QAM	1	1	22.50	21.86
					1	104	22.50	21.97
					100	0	22.50	21.57
				64QAM	1	1	21.50	21.20
					1	104	21.50	20.55
					100	0	21.50	21.14
				256QAM	1	1	20.00	19.31
					1	104	20.00	19.12
					100	0	20.00	19.53
		38000	1900.0	PI/2 BPSK	1	1	23.00	22.79
					1	104	23.00	22.30
					100	0	23.00	22.17
				QPSK	1	1	23.00	22.76
					1	104	23.00	22.12
					100	0	23.00	21.67
				16QAM	1	1	22.50	21.99
					1	104	22.50	21.37
					100	0	22.50	20.57
				64QAM	1	1	21.50	20.79
					1	104	21.50	20.00
					100	0	21.50	20.01
				256QAM	1	1	20.00	19.21
					1	104	20.00	19.07
					100	0	20.00	18.47

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	5	370500	1852.5	PI/2 BPSK	1	1	17.00	16.43
		376000	1880.0	PI/2 BPSK	1	1	17.00	16.41
		381500	1907.5	PI/2 BPSK	1	1	17.00	16.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	10	371000	1855.0	PI/2 BPSK	1	1	17.00	16.57
		376000	1880.0	PI/2 BPSK	1	1	17.00	16.52
		381000	1905.0	PI/2 BPSK	1	1	17.00	16.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	15	371500	1857.5	PI/2 BPSK	1	1	17.00	16.61
		376000	1880.0	PI/2 BPSK	1	1	17.00	16.60
		380500	1902.5	PI/2 BPSK	1	1	17.00	16.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n2_SA	20	372000	1860.0	PI/2 BPSK	1	1	17.00	16.65
					1	104	17.00	16.61
					100	0	16.50	16.37
				QPSK	1	1	17.00	16.78
					1	104	17.00	16.75
					100	0	16.50	16.44
				16QAM	1	1	16.00	15.62
					1	104	16.00	15.57
					100	0	15.00	14.73
				64QAM	1	1	15.00	14.60
					1	104	15.00	14.64
					100	0	14.00	13.64
				256QAM	1	1	14.00	13.54
					1	104	14.00	13.50
					100	0	13.00	12.66
		376000	1880.0	PI/2 BPSK	1	1	17.00	16.66
					1	104	17.00	16.61
					100	0	16.50	16.27
				QPSK	1	1	17.00	16.82
					1	104	17.00	16.79
					100	0	16.50	16.46
				16QAM	1	1	16.00	15.63
					1	104	16.00	15.58
					100	0	15.00	14.74
				64QAM	1	1	15.00	14.65
					1	104	15.00	14.65
					100	0	14.00	13.65
				256QAM	1	1	14.00	13.55
					1	104	14.00	13.51
					100	0	13.00	12.67
		38000	1900.0	PI/2 BPSK	1	1	17.00	16.64
					1	104	17.00	16.58
					100	0	16.50	16.37
				QPSK	1	1	17.00	16.77
					1	104	17.00	16.71
					100	0	16.50	16.35
				16QAM	1	1	16.00	15.61
					1	104	16.00	15.56
					100	0	15.00	14.72
				64QAM	1	1	15.00	14.59
					1	104	15.00	14.63
					100	0	14.00	13.63
				256QAM	1	1	14.00	13.53
					1	104	14.00	13.49
					100	0	13.00	12.65

NR n5 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	5	165300	826.5	PI/2 BPSK	1	1	23.00	22.55
		167300	836.5	PI/2 BPSK	1	1	23.00	22.44
		169300	846.5	PI/2 BPSK	1	1	23.00	22.42
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	10	165800	829.0	PI/2 BPSK	1	1	23.00	22.61
		167300	836.5	PI/2 BPSK	1	1	23.00	22.52
		168800	844.0	PI/2 BPSK	1	1	23.00	22.49
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	15	166300	831.5	PI/2 BPSK	1	1	23.00	22.66
		167300	836.5	PI/2 BPSK	1	1	23.00	22.60
		168300	841.5	PI/2 BPSK	1	1	23.00	22.54
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	20	166800	834.0	PI/2 BPSK	1	1	23.00	22.70
					1	104	23.00	22.53
					100	0	23.00	22.48
				QPSK	1	1	23.00	22.85
					1	104	23.00	22.57
					100	0	23.00	22.48
				16QAM	1	1	23.00	22.04
					1	104	23.00	22.59
					100	0	22.00	21.78
				64QAM	1	1	22.00	21.58
					1	104	22.00	21.35
					100	0	22.00	21.16
				256QAM	1	1	20.00	19.22
					1	104	20.00	19.34
					100	0	20.00	19.23
		167300	836.5	PI/2 BPSK	1	1	23.00	22.65
					1	104	23.00	22.56
					100	0	23.00	22.67
				QPSK	1	1	23.00	22.73
					1	104	23.00	22.37
					100	0	23.00	22.64
				16QAM	1	1	23.00	21.98
					1	104	23.00	22.58
					100	0	22.00	21.79
				64QAM	1	1	22.00	21.58
					1	104	22.00	21.34
					100	0	22.00	21.20
				256QAM	1	1	20.00	19.27
					1	104	20.00	19.07
					100	0	20.00	19.30
		167800	839.0	PI/2 BPSK	1	1	23.00	22.61
					1	104	23.00	22.39
					100	0	23.00	22.60
				QPSK	1	1	23.00	22.67
					1	104	23.00	22.57
					100	0	23.00	22.62
				16QAM	1	1	23.00	22.12
					1	104	23.00	22.55
					100	0	22.00	21.73
				64QAM	1	1	22.00	21.47
					1	104	22.00	21.25
					100	0	22.00	21.22
				256QAM	1	1	20.00	19.25
					1	104	20.00	18.93
					100	0	20.00	19.25

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	5	165300	826.5	PI/2 BPSK	1	1	22.00	21.52
		167300	836.5	PI/2 BPSK	1	1	22.00	21.44
		169300	846.5	PI/2 BPSK	1	1	22.00	21.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	10	165800	829.0	PI/2 BPSK	1	1	22.00	21.66
		167300	836.5	PI/2 BPSK	1	1	22.00	21.55
		168800	844.0	PI/2 BPSK	1	1	22.00	21.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	15	166300	831.5	PI/2 BPSK	1	1	22.00	21.70
		167300	836.5	PI/2 BPSK	1	1	22.00	21.63
		168300	841.5	PI/2 BPSK	1	1	22.00	21.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n5_SA	20	166800	834.0	PI/2 BPSK	1	1	22.00	21.74
					1	104	22.00	21.71
					100	0	21.50	21.38
				QPSK	1	1	22.00	21.88
					1	104	22.00	21.85
					100	0	21.50	21.39
				16QAM	1	1	21.00	20.71
					1	104	21.00	20.66
					100	0	20.00	19.82
				64QAM	1	1	20.00	19.69
					1	104	20.00	19.73
					100	0	19.00	18.73
				256QAM	1	1	19.00	18.63
					1	104	19.00	18.59
					100	0	18.00	17.75
		167300	836.5	PI/2 BPSK	1	1	22.00	21.69
					1	104	22.00	21.64
					100	0	21.50	21.44
				QPSK	1	1	22.00	21.89
					1	104	22.00	21.84
					100	0	21.50	21.44
				16QAM	1	1	21.00	20.66
					1	104	21.00	20.61
					100	0	20.00	19.77
				64QAM	1	1	20.00	19.68
					1	104	20.00	19.68
					100	0	19.00	18.68
				256QAM	1	1	19.00	18.58
					1	104	19.00	18.54
					100	0	18.00	17.70
		167800	839.0	PI/2 BPSK	1	1	22.00	21.64
					1	104	22.00	21.58
					100	0	21.50	21.44
				QPSK	1	1	22.00	21.86
					1	104	22.00	21.85
					100	0	21.50	21.43
				16QAM	1	1	21.00	20.61
					1	104	21.00	20.56
					100	0	20.00	19.72
				64QAM	1	1	20.00	19.59
					1	104	20.00	19.63
					100	0	19.00	18.63
				256QAM	1	1	19.00	18.53
					1	104	19.00	18.49
					100	0	18.00	17.65

NR n7 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	5	500500	2502.5	PI/2 BPSK	1	1	23.50	22.49
		507000	2535	PI/2 BPSK	1	1	23.50	22.47
		513500	2567.5	PI/2 BPSK	1	1	23.50	22.56
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	10	501000	2505	PI/2 BPSK	1	1	23.50	22.55
		507000	2535	PI/2 BPSK	1	1	23.50	22.55
		513000	2565	PI/2 BPSK	1	1	23.50	22.63
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	15	501500	2507.5	PI/2 BPSK	1	1	23.50	22.60
		507000	2535	PI/2 BPSK	1	1	23.50	22.63
		512500	2562.5	PI/2 BPSK	1	1	23.50	22.68
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	20	502000	2510	PI/2 BPSK	1	1	23.50	22.64
		507000	2535	PI/2 BPSK	1	1	23.50	22.68
		512000	2560	PI/2 BPSK	1	1	23.50	22.75
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	25	502500	2512.5	PI/2 BPSK	1	1	23.50	22.69
		507000	2535	PI/2 BPSK	1	1	23.50	22.72
		511500	2557.5	PI/2 BPSK	1	1	23.50	22.80
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	30	503000	2515	PI/2 BPSK	1	1	23.50	22.75
		507000	2535	PI/2 BPSK	1	1	23.50	22.77
		511000	2555	PI/2 BPSK	1	1	23.50	22.86
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	40	504000	2520	PI/2 BPSK	1	1	23.50	22.82
					1	214	23.50	22.82
					216	0	23.50	22.84
				QPSK	1	1	23.50	22.70
					1	214	23.50	23.27
					216	0	23.50	22.82
				16QAM	1	1	23.50	22.24
					1	214	23.50	22.10
					216	0	23.50	22.08
				64QAM	1	1	22.50	21.32
					1	214	22.50	21.65
					216	0	22.50	21.44
				256QAM	1	1	20.50	19.71
					1	214	20.50	19.38
					216	0	20.50	19.51
		507000	2535	PI/2 BPSK	1	1	23.50	22.83
					1	214	23.50	22.77
					216	0	23.50	22.78
				QPSK	1	1	23.50	22.94
					1	214	23.50	23.14
					216	0	23.50	22.77
				16QAM	1	1	23.50	22.18
					1	214	23.50	22.05
					216	0	23.50	21.95
				64QAM	1	1	22.50	21.45
					1	214	22.50	21.63
					216	0	22.50	21.46
				256QAM	1	1	20.50	19.25
					1	214	20.50	19.37
					216	0	20.50	19.44
		510000	2550	PI/2 BPSK	1	1	23.50	22.91
					1	214	23.50	23.00
					216	0	23.50	22.79
				QPSK	1	1	23.50	23.12
					1	214	23.50	23.34
					216	0	23.50	22.98
				16QAM	1	1	23.50	22.26
					1	214	23.50	22.29
					216	0	23.50	22.04
				64QAM	1	1	22.50	21.79
					1	214	22.50	21.90
					216	0	22.50	21.62
				256QAM	1	1	20.50	19.41
					1	214	20.50	19.53
					216	0	20.50	19.51

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	5	500500	2502.5	PI/2 BPSK	1	1	19.00	18.25
		507000	2535	PI/2 BPSK	1	1	19.00	18.25
		513500	2567.5	PI/2 BPSK	1	1	19.00	18.40
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	10	501000	2505	PI/2 BPSK	1	1	19.00	18.32
		507000	2535	PI/2 BPSK	1	1	19.00	18.31
		513000	2565	PI/2 BPSK	1	1	19.00	18.45
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	15	501500	2507.5	PI/2 BPSK	1	1	19.00	18.39
		507000	2535	PI/2 BPSK	1	1	19.00	18.39
		512500	2562.5	PI/2 BPSK	1	1	19.00	18.50
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	20	502000	2510	PI/2 BPSK	1	1	19.00	18.46
		507000	2535	PI/2 BPSK	1	1	19.00	18.44
		512000	2560	PI/2 BPSK	1	1	19.00	18.56
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	25	502500	2512.5	PI/2 BPSK	1	1	19.00	18.60
		507000	2535	PI/2 BPSK	1	1	19.00	18.55
		511500	2557.5	PI/2 BPSK	1	1	19.00	18.66
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	30	503000	2515	PI/2 BPSK	1	1	19.00	18.64
		507000	2535	PI/2 BPSK	1	1	19.00	18.63
		511000	2555	PI/2 BPSK	1	1	19.00	18.73
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_7SA	40	504000	2520	PI/2 BPSK	1	1	19.00	18.68
					1	214	19.00	18.64
					216	0	18.50	18.37
				QPSK	1	1	19.00	18.78
					1	214	19.00	18.75
					216	0	18.50	18.43
				16QAM	1	1	18.00	17.65
					1	214	18.00	17.60
					216	0	17.00	16.76
				64QAM	1	1	17.00	16.63
					1	214	17.00	16.67
					216	0	16.00	15.67
				256QAM	1	1	16.00	15.57
					1	214	16.00	15.53
					216	0	15.00	14.69
		507000	2535	PI/2 BPSK	1	1	19.00	18.69
					1	214	19.00	18.61
					216	0	18.50	18.32
				QPSK	1	1	19.00	18.88
					1	214	19.00	18.84
					216	0	18.50	18.46
				16QAM	1	1	18.00	17.66
					1	214	18.00	17.61
					216	0	17.00	16.77
				64QAM	1	1	17.00	16.65
					1	214	17.00	16.68
					216	0	16.00	15.68
				256QAM	1	1	16.00	15.58
					1	214	16.00	15.54
					216	0	15.00	14.70
		510000	2550	PI/2 BPSK	1	1	19.00	18.79
					1	214	19.00	18.76
					216	0	18.50	18.32
				QPSK	1	1	19.00	18.85
					1	214	19.00	18.81
					216	0	18.50	18.40
				16QAM	1	1	18.00	17.76
					1	214	18.00	17.71
					216	0	17.00	16.87
				64QAM	1	1	17.00	16.74
					1	214	17.00	16.78
					216	0	16.00	15.78
				256QAM	1	1	16.00	15.68
					1	214	16.00	15.64
					216	0	15.00	14.80

NR n12 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	5	140300	701.5	PI/2 BPSK	1	1	23.00	22.67
		141500	707.5	PI/2 BPSK	1	1	23.00	22.63
		142700	713.5	PI/2 BPSK	1	1	23.00	22.65
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	10	140800	704	PI/2 BPSK	1	1	23.00	22.73
		141500	707.5	PI/2 BPSK	1	1	23.00	22.71
		142200	711	PI/2 BPSK	1	1	23.00	22.72
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	15	141300	706.5	PI/2 BPSK	1	1	23.00	22.78
					1	77	23.00	22.65
					75	0	23.00	22.68
				QPSK	1	1	23.00	22.84
					1	77	23.00	22.77
					75	0	23.00	22.71
				16QAM	1	1	23.00	21.97
					1	77	23.00	22.51
					75	0	22.00	21.79
				64QAM	1	1	22.00	21.54
					1	77	22.00	21.42
					75	0	22.00	21.37
				256QAM	1	1	20.00	19.36
					1	77	20.00	19.18
					75	0	20.00	19.37
		141500	707.5	PI/2 BPSK	1	1	23.00	22.79
					1	77	23.00	22.78
					75	0	23.00	22.61
				QPSK	1	1	23.00	22.80
					1	77	23.00	22.78
					75	0	23.00	22.71
				16QAM	1	1	23.00	21.97
					1	77	23.00	22.71
					75	0	22.00	21.81
				64QAM	1	1	22.00	21.40
					1	77	22.00	21.36
					75	0	22.00	21.37
				256QAM	1	1	20.00	19.38
					1	77	20.00	19.11
					75	0	20.00	19.38
		141700	708.5	PI/2 BPSK	1	1	23.00	22.77
					1	77	23.00	22.50
					75	0	23.00	22.65
				QPSK	1	1	23.00	22.85
					1	77	23.00	22.70
					75	0	23.00	22.58
				16QAM	1	1	23.00	21.97
					1	77	23.00	22.80
					75	0	22.00	21.77
				64QAM	1	1	22.00	21.56
					1	77	22.00	21.36
					75	0	22.00	21.34
				256QAM	1	1	20.00	19.30
					1	77	20.00	19.10
					75	0	20.00	19.38

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	5	140300	701.5	PI/2 BPSK	1	1	22.00	21.55
		141500	707.5	PI/2 BPSK	1	1	22.00	21.41
		142700	713.5	PI/2 BPSK	1	1	22.00	21.55
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	10	140800	704	PI/2 BPSK	1	1	22.00	21.59
		141500	707.5	PI/2 BPSK	1	1	22.00	21.49
		142200	711	PI/2 BPSK	1	1	22.00	21.62
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_12SA	15	141300	706.5	PI/2 BPSK	1	1	22.00	21.63
					1	77	22.00	21.58
					75	0	21.50	21.41
				QPSK	1	1	22.00	21.79
					1	77	22.00	21.74
					75	0	21.50	21.43
				16QAM	1	1	21.00	20.60
					1	77	21.00	20.55
					75	0	20.00	19.71
				64QAM	1	1	20.00	19.58
					1	77	20.00	19.62
					75	0	19.00	18.62
				256QAM	1	1	19.00	18.52
					1	77	19.00	18.48
					75	0	18.00	17.64
		141500	707.5	PI/2 BPSK	1	1	22.00	21.55
					1	77	22.00	21.51
					75	0	21.50	21.38
				QPSK	1	1	22.00	21.89
					1	77	22.00	21.84
					75	0	21.50	21.44
				16QAM	1	1	21.00	20.52
					1	77	21.00	20.47
					75	0	20.00	19.63
				64QAM	1	1	20.00	19.55
					1	77	20.00	19.54
					75	0	19.00	18.54
				256QAM	1	1	19.00	18.44
					1	77	19.00	18.40
					75	0	18.00	17.56
		141700	708.5	PI/2 BPSK	1	1	22.00	21.68
					1	77	22.00	21.64
					75	0	21.50	21.27
				QPSK	1	1	22.00	21.78
					1	77	22.00	21.76
					75	0	21.50	21.29
				16QAM	1	1	21.00	20.65
					1	77	21.00	20.60
					75	0	20.00	19.76
				64QAM	1	1	20.00	19.63
					1	77	20.00	19.67
					75	0	19.00	18.67
				256QAM	1	1	19.00	18.57
					1	77	19.00	18.53
					75	0	18.00	17.69

NR n13 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n13_SA	5	155900	780	PI/2 BPSK	1	1	23.50	23.26
		156400	782	PI/2 BPSK	1	1	23.50	23.32
		156900	785	PI/2 BPSK	1	1	23.50	23.35
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n13_SA	10	156400	782	PI/2 BPSK	1	1	23.50	23.21
					1	50	23.50	23.12
					50	0	23.00	22.97
				QPSK	1	1	23.50	23.26
					1	50	23.50	23.15
					50	0	23.00	22.56
				16QAM	1	1	23.00	22.51
					1	50	23.00	22.73
					50	0	22.00	21.55
				64QAM	1	1	22.00	21.24
					1	50	22.00	21.31
					50	0	21.50	21.11
				256QAM	1	1	19.00	18.65
					1	50	19.00	18.91
					50	0	19.00	18.98

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n13_SA	5	155900	780	PI/2 BPSK	1	1	22.50	22.17
		156400	782	PI/2 BPSK	1	1	22.50	22.10
		156900	785	PI/2 BPSK	1	1	22.50	22.03
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n13_SA	10	156400	782	PI/2 BPSK	1	1	22.50	22.21
					1	50	22.50	22.18
					50	0	22.00	21.74
				QPSK	1	1	22.50	22.46
					1	50	22.50	22.41
					50	0	22.00	21.85
				16QAM	1	1	21.50	21.18
					1	50	21.50	21.13
					50	0	20.50	20.29
				64QAM	1	1	20.50	20.16
					1	50	20.50	20.20
					50	0	19.50	19.20
				256QAM	1	1	19.50	19.10
					1	50	19.50	19.06
					50	0	18.50	18.22

NR n14 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n14_SA	5	158100	790.5	PI/2 BPSK	1	1	24.00	23.56
		158600	793.0	PI/2 BPSK	1	1	24.00	22.15
		159100	795.5	PI/2 BPSK	1	1	24.00	23.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n14_SA	10	158600	793	PI/2 BPSK	1	1	24.00	23.50
					1	50	24.00	23.35
					50	0	24.00	22.99
				QPSK	1	1	24.00	23.49
					1	50	24.00	23.31
					50	0	23.00	22.50
				16QAM	1	1	23.00	22.82
					1	50	23.00	22.61
					50	0	22.00	21.48
				64QAM	1	1	22.00	21.43
					1	50	22.00	21.22
					50	0	22.00	21.05
				256QAM	1	1	20.00	19.04
					1	50	20.00	18.94
					50	0	20.00	19.12

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n14_SA	5	158100	790.5	PI/2 BPSK	1	1	23.00	22.69
		158600	793.0	PI/2 BPSK	1	1	23.00	22.10
		159100	795.5	PI/2 BPSK	1	1	23.00	22.03
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n14_SA	10	158600	793	PI/2 BPSK	1	1	23.00	22.73
					1	50	23.00	22.71
					50	0	22.50	22.38
				QPSK	1	1	23.00	22.93
					1	50	23.00	22.79
					50	0	22.50	22.39
				16QAM	1	1	22.00	21.70
					1	50	22.00	21.65
					50	0	21.00	20.81
				64QAM	1	1	21.00	20.68
					1	50	21.00	20.72
					50	0	20.00	19.72
				256QAM	1	1	20.00	19.62
					1	50	20.00	19.58
					50	0	19.00	18.74

NR n25 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	5	370500	1852.5	PI/2 BPSK	1	1	24.00	23.38
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.31
		382500	1912.5	PI/2 BPSK	1	1	24.00	23.42
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	10	371000	1855	PI/2 BPSK	1	1	24.00	23.44
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.39
		382000	1910	PI/2 BPSK	1	1	24.00	23.49
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	15	371500	1857.5	PI/2 BPSK	1	1	24.00	23.49
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.47
		381500	1907.5	PI/2 BPSK	1	1	24.00	23.54
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	20	372000	1860	PI/2 BPSK	1	1	24.00	23.53
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.52
		381000	1905	PI/2 BPSK	1	1	24.00	23.61
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	25	372500	1862.5	PI/2 BPSK	1	1	24.00	23.58
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.56
		380500	1902.5	PI/2 BPSK	1	1	24.00	23.66
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	30	373000	1865	PI/2 BPSK	1	1	24.00	23.64
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.61
		380000	1900	PI/2 BPSK	1	1	24.00	23.72
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	40	374000	1870	PI/2 BPSK	1	1	24.00	23.71
					1	214	24.00	23.37
					216	0	24.00	23.27
				QPSK	1	1	24.00	23.81
					1	214	24.00	23.19
					216	0	23.00	22.82
				16QAM	1	1	23.00	22.87
					1	214	23.00	22.55
					216	0	22.00	21.82
				64QAM	1	1	22.00	21.29
					1	214	22.00	21.19
					216	0	22.00	21.47
				256QAM	1	1	20.00	19.22
					1	214	20.00	19.29
					216	0	20.00	19.39
		376500	1882.5	PI/2 BPSK	1	1	24.00	23.67
					1	214	24.00	23.01
					216	0	24.00	23.27
				QPSK	1	1	24.00	23.72
					1	214	24.00	23.77
					216	0	23.00	22.8
				16QAM	1	1	23.00	22.83
					1	214	23.00	22.85
					216	0	22.00	21.84
				64QAM	1	1	22.00	21.18
					1	214	22.00	21.19
					216	0	22.00	21.39
				256QAM	1	1	20.00	19.21
					1	214	20.00	19.23
					216	0	20.00	19.38
		379000	1895	PI/2 BPSK	1	1	24.00	23.77
					1	214	24.00	23.27
					216	0	24.00	23.26
				QPSK	1	1	24.00	23.87
					1	214	24.00	22.71
					216	0	23.00	22.91
				16QAM	1	1	23.00	23.11
					1	214	23.00	22.13
					216	0	22.00	21.94
				64QAM	1	1	22.00	21.29
					1	214	22.00	20.67
					216	0	22.00	21.40
				256QAM	1	1	20.00	19.33
					1	214	20.00	19.11
					216	0	20.00	19.48

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	5	370500	1852.5	PI/2 BPSK	1	1	17.00	16.07
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.12
		382500	1912.5	PI/2 BPSK	1	1	17.00	16.07
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	10	371000	1855	PI/2 BPSK	1	1	17.00	16.12
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.20
		382000	1910	PI/2 BPSK	1	1	17.00	16.22
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	15	371500	1857.5	PI/2 BPSK	1	1	17.00	16.42
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.48
		381500	1907.5	PI/2 BPSK	1	1	17.00	16.40
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	20	372000	1860	PI/2 BPSK	1	1	17.00	16.49
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.54
		381000	1905	PI/2 BPSK	1	1	17.00	16.44
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	25	372500	1862.5	PI/2 BPSK	1	1	17.00	16.56
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.59
		380500	1902.5	PI/2 BPSK	1	1	17.00	16.50
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	30	373000	1865	PI/2 BPSK	1	1	17.00	16.60
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.67
		380000	1900	PI/2 BPSK	1	1	17.00	16.57
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n25_SA	40	374000	1870	PI/2 BPSK	1	1	17.00	16.64
					1	214	17.00	16.61
					216	0	16.50	16.27
				QPSK	1	1	17.00	16.83
					1	214	17.00	16.79
					216	0	16.50	16.41
				16QAM	1	1	16.00	15.61
					1	214	16.00	15.56
					216	0	15.00	14.72
				64QAM	1	1	15.00	14.59
					1	214	15.00	14.63
					216	0	14.00	13.63
				256QAM	1	1	14.00	13.53
					1	214	14.00	13.49
					216	0	13.00	12.65
		376500	1882.5	PI/2 BPSK	1	1	17.00	16.73
					1	214	17.00	16.69
					216	0	16.50	16.22
				QPSK	1	1	17.00	16.89
					1	214	17.00	16.85
					216	0	16.50	16.39
				16QAM	1	1	16.00	15.70
					1	214	16.00	15.65
					216	0	15.00	14.81
				64QAM	1	1	15.00	14.73
					1	214	15.00	14.72
					216	0	14.00	13.72
				256QAM	1	1	14.00	13.62
					1	214	14.00	13.58
					216	0	13.00	12.74
		379000	1895	PI/2 BPSK	1	1	17.00	16.63
					1	214	17.00	16.58
					216	0	16.50	16.16
				QPSK	1	1	17.00	16.79
					1	214	17.00	16.77
					216	0	16.50	16.39
				16QAM	1	1	16.00	15.60
					1	214	16.00	15.55
					216	0	15.00	14.71
				64QAM	1	1	15.00	14.58
					1	214	15.00	14.62
					216	0	14.00	13.62
				256QAM	1	1	14.00	13.52
					1	214	14.00	13.48
					216	0	13.00	12.64

NR n26 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	5	165300	826.5	PI/2 BPSK	1	1	24.00	23.71
		167300	836.5	PI/2 BPSK	1	1	24.00	23.69
		169300	846.5	PI/2 BPSK	1	1	24.00	23.62
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	10	165800	829	PI/2 BPSK	1	1	24.00	23.77
		167300	836.5	PI/2 BPSK	1	1	24.00	23.77
		168800	844	PI/2 BPSK	1	1	24.00	23.69
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	15	166300	831.5	PI/2 BPSK	1	1	24.00	23.82
		167300	836.5	PI/2 BPSK	1	1	24.00	23.85
		168300	841.5	PI/2 BPSK	1	1	24.00	23.74
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	20	166800	834	PI/2 BPSK	1	1	24.00	23.39
					1	104	24.00	23.67
					100	0	24.00	23.45
				QPSK	1	1	24.00	23.42
					1	104	24.00	23.71
					100	0	23.00	22.92
				16QAM	1	1	23.00	23.07
					1	104	23.00	22.99
					100	0	22.00	21.95
				64QAM	1	1	22.00	21.65
					1	104	22.00	21.51
					100	0	21.00	21.39
				256QAM	1	1	20.00	19.29
					1	104	20.00	19.21
					100	0	20.00	19.38
		167300	836.5	PI/2 BPSK	1	1	24.00	23.44
					1	104	24.00	23.59
					100	0	24.00	23.45
				QPSK	1	1	24.00	23.37
					1	104	24.00	23.59
					100	0	23.00	22.93
				16QAM	1	1	23.00	23.04
					1	104	23.00	23.03
					100	0	22.00	22.61
				64QAM	1	1	22.00	21.62
					1	104	22.00	21.60
					100	0	21.00	21.36
				256QAM	1	1	20.00	19.22
					1	104	20.00	19.17
					100	0	20.00	19.41
		167800	839	PI/2 BPSK	1	1	24.00	23.32
					1	104	24.00	23.49
					100	0	24.00	23.36
				QPSK	1	1	24.00	23.38
					1	104	24.00	23.55
					100	0	23.00	22.85
				16QAM	1	1	23.00	22.99
					1	104	23.00	22.99
					100	0	22.00	21.94
				64QAM	1	1	22.00	21.62
					1	104	22.00	21.61
					100	0	21.00	21.39
				256QAM	1	1	20.00	19.23
					1	104	20.00	19.22
					100	0	20.00	19.37

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	5	165300	826.5	PI/2 BPSK	1	1	23.00	22.33
		167300	836.5	PI/2 BPSK	1	1	23.00	22.31
		169300	846.5	PI/2 BPSK	1	1	23.00	22.39
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	10	165800	829	PI/2 BPSK	1	1	23.00	22.61
		167300	836.5	PI/2 BPSK	1	1	23.00	22.51
		168800	844	PI/2 BPSK	1	1	23.00	22.60
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	15	166300	831.5	PI/2 BPSK	1	1	23.00	22.65
		167300	836.5	PI/2 BPSK	1	1	23.00	22.63
		168300	841.5	PI/2 BPSK	1	1	23.00	22.67
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n26_SA	20	166800	834	PI/2 BPSK	1	1	23.00	22.69
					1	104	23.00	22.61
					100	0	22.50	22.27
				QPSK	1	1	23.00	22.78
					1	104	23.00	22.71
					100	0	22.50	22.42
				16QAM	1	1	22.00	21.66
					1	104	22.00	21.61
					100	0	21.00	20.77
				64QAM	1	1	21.00	20.64
					1	104	21.00	20.68
					100	0	20.00	19.68
				256QAM	1	1	20.00	19.58
					1	104	20.00	19.54
					100	0	19.00	18.70
		167300	836.5	PI/2 BPSK	1	1	23.00	22.69
					1	104	23.00	22.65
					100	0	22.50	22.28
				QPSK	1	1	23.00	22.86
					1	104	23.00	22.83
					100	0	22.50	22.44
				16QAM	1	1	22.00	21.66
					1	104	22.00	21.61
					100	0	21.00	20.77
				64QAM	1	1	21.00	20.69
					1	104	21.00	20.68
					100	0	20.00	19.68
				256QAM	1	1	20.00	19.58
					1	104	20.00	19.54
					100	0	19.00	18.70
		167800	839	PI/2 BPSK	1	1	23.00	22.73
					1	104	23.00	22.71
					100	0	22.50	22.36
				QPSK	1	1	23.00	22.83
					1	104	23.00	22.75
					100	0	22.50	22.46
				16QAM	1	1	22.00	21.70
					1	104	22.00	21.65
					100	0	21.00	20.81
				64QAM	1	1	21.00	20.68
					1	104	21.00	20.72
					100	0	20.00	19.72
				256QAM	1	1	20.00	19.62
					1	104	20.00	19.58
					100	0	19.00	18.74

NR n30 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n30_SA	5	461500	2307.5	PI/2 BPSK	1	1	22.00	21.65
		462000	2310	PI/2 BPSK	1	1	22.00	21.91
		462500	2312.5	PI/2 BPSK	1	1	22.00	21.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n30_SA	10	462000	2310	PI/2 BPSK	1	1	22.00	21.49
					1	50	22.00	21.45
					50	0	22.00	21.09
				QPSK	1	1	22.00	21.58
					1	50	22.00	21.62
					50	0	21.00	20.98
				16QAM	1	1	21.00	20.71
					1	50	21.00	20.68
					50	0	20.50	20.19
				64QAM	1	1	20.00	19.46
					1	50	20.00	19.26
					50	0	20.00	19.81
				256QAM	1	1	18.00	17.81
					1	50	18.00	17.91
					50	0	18.50	18.02

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n30_SA	5	461500	2307.5	PI/2 BPSK	1	1	19.00	18.50
		462000	2310	PI/2 BPSK	1	1	19.00	18.59
		462500	2312.5	PI/2 BPSK	1	1	19.00	18.56
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n30_SA	10	462000	2310	PI/2 BPSK	1	1	19.00	18.48
					1	50	19.00	18.40
					50	0	18.50	18.35
				QPSK	1	1	19.00	18.53
					1	50	19.00	18.43
					50	0	18.50	18.41
				16QAM	1	1	18.00	17.45
					1	50	18.00	17.40
					50	0	17.00	16.56
				64QAM	1	1	17.00	16.43
					1	50	17.00	16.47
					50	0	16.00	15.47
				256QAM	1	1	16.00	15.37
					1	50	16.00	15.33
					50	0	15.00	14.49

NR n38 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	24.50	23.38
		519000	2595	PI/2 BPSK	1	1	24.50	23.27
		523000	2615	PI/2 BPSK	1	1	24.50	23.32
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	24.50	23.38
		519000	2595	PI/2 BPSK	1	1	24.50	23.43
		522500	2612.5	PI/2 BPSK	1	1	24.50	23.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	24.50	23.43
					1	49	24.50	23.59
					50	0	23.50	23.12
				QPSK	1	1	24.50	23.49
					1	49	24.50	23.53
					50	0	23.50	22.54
				16QAM	1	1	23.50	22.41
					1	49	23.50	22.63
					50	0	22.50	21.62
				64QAM	1	1	22.50	21.00
					1	49	22.50	21.10
					50	0	21.50	21.02
				256QAM	1	1	21.50	18.93
					1	49	21.50	19.02
					50	0	20.50	19.10
		519000	2595	PI/2 BPSK	1	1	24.50	23.49
					1	49	24.50	23.39
					50	0	23.50	23.02
				QPSK	1	1	24.50	23.40
					1	49	24.50	23.34
					50	0	23.50	22.48
				16QAM	1	1	23.50	22.42
					1	49	23.50	22.48
					50	0	22.50	21.55
				64QAM	1	1	22.50	21.25
					1	49	22.50	21.02
					50	0	21.50	20.97
				256QAM	1	1	21.50	18.98
					1	49	21.50	18.90
					50	0	20.50	18.95
		522000	2610	PI/2 BPSK	1	1	24.50	23.49
					1	49	24.50	23.44
					50	0	23.50	23.12
				QPSK	1	1	24.50	23.49
					1	49	24.50	23.43
					50	0	23.50	22.59
				16QAM	1	1	23.50	22.49
					1	49	23.50	22.43
					50	0	22.50	21.61
				64QAM	1	1	22.50	21.08
					1	49	22.50	21.24
					50	0	21.50	21.02
				256QAM	1	1	21.50	19.06
					1	49	21.50	18.92
					50	0	20.50	19.05

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	25.00	23.83
		519000	2595	PI/2 BPSK	1	1	25.00	23.77
		523000	2615	PI/2 BPSK	1	1	25.00	23.80
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	25.00	23.88
		519000	2595	PI/2 BPSK	1	1	25.00	23.85
		522500	2612.5	PI/2 BPSK	1	1	25.00	23.85
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	25.00	23.92
					1	49	25.00	24.01
					50	0	24.00	23.53
				QPSK	1	1	25.00	23.90
					1	49	25.00	23.94
					50	0	24.00	23.00
				16QAM	1	1	24.00	22.90
					1	49	24.00	23.08
					50	0	23.00	22.03
				64QAM	1	1	23.00	21.45
					1	49	23.00	21.55
					50	0	22.00	21.46
				256QAM	1	1	22.00	19.42
					1	49	22.00	19.52
					50	0	21.00	19.56
		519000	2595	PI/2 BPSK	1	1	25.00	23.90
					1	49	25.00	23.87
					50	0	24.00	23.43
				QPSK	1	1	25.00	23.89
					1	49	25.00	23.80
					50	0	24.00	22.95
				16QAM	1	1	24.00	22.89
					1	49	24.00	22.90
					50	0	23.00	21.95
				64QAM	1	1	23.00	21.68
					1	49	23.00	21.43
					50	0	22.00	21.42
				256QAM	1	1	22.00	19.44
					1	49	22.00	19.36
					50	0	21.00	19.43
		522000	2610	PI/2 BPSK	1	1	25.00	23.92
					1	49	25.00	23.84
					50	0	24.00	23.55
				QPSK	1	1	25.00	23.93
					1	49	25.00	23.90
					50	0	24.00	23.00
				16QAM	1	1	24.00	22.93
					1	49	24.00	22.87
					50	0	23.00	22.05
				64QAM	1	1	23.00	21.50
					1	49	23.00	21.65
					50	0	22.00	21.48
				256QAM	1	1	22.00	19.50
					1	49	22.00	19.39
					50	0	21.00	19.52

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	23.50	22.57
		519000	2595	PI/2 BPSK	1	1	23.50	22.57
		523000	2615	PI/2 BPSK	1	1	23.50	22.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	23.50	22.61
		519000	2595	PI/2 BPSK	1	1	23.50	22.65
		522500	2612.5	PI/2 BPSK	1	1	23.50	22.63
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	23.50	22.65
					1	49	23.50	22.62
					50	0	22.50	22.34
				QPSK	1	1	23.50	22.78
					1	49	23.50	22.73
					50	0	22.50	22.43
				16QAM	1	1	22.50	21.62
					1	49	22.50	21.57
					50	0	21.50	20.73
				64QAM	1	1	21.50	20.60
					1	49	21.50	20.64
					50	0	20.50	19.64
				256QAM	1	1	20.50	19.54
					1	49	20.50	19.50
					50	0	19.50	18.66
		519000	2595	PI/2 BPSK	1	1	23.50	22.71
					1	49	23.50	22.64
					50	0	22.50	22.29
				QPSK	1	1	23.50	22.86
					1	49	23.50	22.81
					50	0	22.50	22.48
				16QAM	1	1	22.50	21.68
					1	49	22.50	21.63
					50	0	21.50	20.79
				64QAM	1	1	21.50	20.68
					1	49	21.50	20.70
					50	0	20.50	19.70
				256QAM	1	1	20.50	19.60
					1	49	20.50	19.56
					50	0	19.50	18.72
		522000	2610	PI/2 BPSK	1	1	23.50	22.71
					1	49	23.50	22.63
					50	0	22.50	22.33
				QPSK	1	1	23.50	22.78
					1	49	23.50	22.73
					50	0	22.50	22.45
				16QAM	1	1	22.50	21.68
					1	49	22.50	21.63
					50	0	21.50	20.79
				64QAM	1	1	21.50	20.66
					1	49	21.50	20.70
					50	0	20.50	19.70
				256QAM	1	1	20.50	19.60
					1	49	20.50	19.56
					50	0	19.50	18.72

NR n38 MIMO

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	24.50	23.07
		519000	2595	PI/2 BPSK	1	1	24.50	22.96
		523000	2615	PI/2 BPSK	1	1	24.50	23.01
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	24.50	23.07
		519000	2595	PI/2 BPSK	1	1	24.50	23.12
		522500	2612.5	PI/2 BPSK	1	1	24.50	23.10
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	24.50	23.43
					1	49	24.50	23.59
					50	0	23.50	23.12
				QPSK	1	1	24.50	23.49
					1	49	24.50	23.53
					50	0	23.50	22.54
				16QAM	1	1	23.50	22.41
					1	49	23.50	22.63
					50	0	22.50	21.62
				64QAM	1	1	22.50	21.00
					1	49	22.50	21.10
					50	0	21.50	21.02
				256QAM	1	1	21.50	18.93
					1	49	21.50	19.02
					50	0	20.50	19.10
		519000	2595	PI/2 BPSK	1	1	24.50	23.49
					1	49	24.50	23.39
					50	0	23.50	23.02
				QPSK	1	1	24.50	23.40
					1	49	24.50	23.34
					50	0	23.50	22.48
				16QAM	1	1	23.50	22.42
					1	49	23.50	22.48
					50	0	22.50	21.55
				64QAM	1	1	22.50	21.25
					1	49	22.50	21.02
					50	0	21.50	20.97
				256QAM	1	1	21.50	18.98
					1	49	21.50	18.90
					50	0	20.50	18.95
		522000	2610	PI/2 BPSK	1	1	24.50	23.49
					1	49	24.50	23.44
					50	0	23.50	23.12
				QPSK	1	1	24.50	23.49
					1	49	24.50	23.43
					50	0	23.50	22.59
				16QAM	1	1	23.50	22.49
					1	49	23.50	22.43
					50	0	22.50	21.61
				64QAM	1	1	22.50	21.08
					1	49	22.50	21.24
					50	0	21.50	21.02
				256QAM	1	1	21.50	19.06
					1	49	21.50	18.92
					50	0	20.50	19.05

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	25.00	23.83
		519000	2595	PI/2 BPSK	1	1	25.00	23.77
		523000	2615	PI/2 BPSK	1	1	25.00	23.80
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	25.00	23.88
		519000	2595	PI/2 BPSK	1	1	25.00	23.85
		522500	2612.5	PI/2 BPSK	1	1	25.00	23.85
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	25.00	23.92
					1	49	25.00	24.01
					50	0	24.00	23.53
				QPSK	1	1	25.00	23.90
					1	49	25.00	23.94
					50	0	24.00	23.00
				16QAM	1	1	24.00	22.90
					1	49	24.00	23.08
					50	0	23.00	22.03
				64QAM	1	1	23.00	21.45
					1	49	23.00	21.55
					50	0	22.00	21.46
				256QAM	1	1	22.00	19.42
					1	49	22.00	19.52
					50	0	21.00	19.56
		519000	2595	PI/2 BPSK	1	1	25.00	23.90
					1	49	25.00	23.87
					50	0	24.00	23.43
				QPSK	1	1	25.00	23.89
					1	49	25.00	23.80
					50	0	24.00	22.95
				16QAM	1	1	24.00	22.89
					1	49	24.00	22.90
					50	0	23.00	21.95
				64QAM	1	1	23.00	21.68
					1	49	23.00	21.43
					50	0	22.00	21.42
				256QAM	1	1	22.00	19.44
					1	49	22.00	19.36
					50	0	21.00	19.43
		522000	2610	PI/2 BPSK	1	1	25.00	23.82
					1	49	25.00	23.84
					50	0	24.00	23.55
				QPSK	1	1	25.00	23.93
					1	49	25.00	23.90
					50	0	24.00	23.00
				16QAM	1	1	24.00	22.93
					1	49	24.00	22.87
					50	0	23.00	22.05
				64QAM	1	1	23.00	21.50
					1	49	23.00	21.65
					50	0	22.00	21.48
				256QAM	1	1	22.00	19.50
					1	49	22.00	19.39
					50	0	21.00	19.52

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	10	515000	2575	PI/2 BPSK	1	1	23.50	22.48
		519000	2595	PI/2 BPSK	1	1	23.50	22.59
		523000	2615	PI/2 BPSK	1	1	23.50	22.50
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n_38SA	15	515500	2577.5	PI/2 BPSK	1	1	23.50	22.52
		519000	2595	PI/2 BPSK	1	1	23.50	22.67
		522500	2612.5	PI/2 BPSK	1	1	23.50	22.57
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n38_SA	20	516000	2580	PI/2 BPSK	1	1	23.50	22.56
					1	49	23.50	22.51
					50	0	22.50	22.24
				QPSK	1	1	23.50	22.76
					1	49	23.50	22.75
					50	0	22.50	22.41
				16QAM	1	1	22.50	21.53
					1	49	22.50	21.48
					50	0	21.50	20.64
				64QAM	1	1	21.50	20.51
					1	49	21.50	20.55
					50	0	20.50	19.55
				256QAM	1	1	20.50	19.45
					1	49	20.50	19.41
					50	0	19.50	18.57
		519000	2595	PI/2 BPSK	1	1	23.50	22.73
					1	49	23.50	22.69
					50	0	22.50	22.42
				QPSK	1	1	23.50	22.93
					1	49	23.50	22.82
					50	0	22.50	22.45
				16QAM	1	1	22.50	21.70
					1	49	22.50	21.65
					50	0	21.50	20.81
				64QAM	1	1	21.50	20.73
					1	49	21.50	20.72
					50	0	20.50	19.72
				256QAM	1	1	20.50	19.62
					1	49	20.50	19.58
					50	0	19.50	18.74
		522000	2610	PI/2 BPSK	1	1	23.50	22.63
					1	49	23.50	22.54
					50	0	22.50	22.37
				QPSK	1	1	23.50	22.88
					1	49	23.50	22.83
					50	0	22.50	22.34
				16QAM	1	1	22.50	21.60
					1	49	22.50	21.55
					50	0	21.50	20.71
				64QAM	1	1	21.50	20.58
					1	49	21.50	20.62
					50	0	20.50	19.62
				256QAM	1	1	20.50	19.52
					1	49	20.50	19.48
					50	0	19.50	18.64

NR n41 Main

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	26.50	25.19
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.30
		534000	2670	PI/2 BPSK	1	1	26.50	25.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	26.50	25.22
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.27
		535000	2675	PI/2 BPSK	1	1	26.50	25.49
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	26.50	25.29
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.38
		534000	2670	PI/2 BPSK	1	1	26.50	25.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	26.50	25.42
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.39
		532998	2664.99	PI/2 BPSK	1	1	26.50	25.62
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	26.50	25.49
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.46
		531996	2659.98	PI/2 BPSK	1	1	26.50	25.69
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	26.50	25.48
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.51
		529998	2649.99	PI/2 BPSK	1	1	26.50	25.69
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	26.50	25.57
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.64
		529998	2649.99	PI/2 BPSK	1	1	26.50	25.79
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	26.50	25.64
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.72
		528996	2644.98	PI/2 BPSK	1	1	26.50	25.86
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	26.50	25.69
					1	271	26.50	26.00
					270	0	24.00	23.29
				QPSK	1	1	26.50	25.63
					1	271	26.50	26.07
					270	0	24.00	22.83
				16QAM	1	1	25.50	24.58
					1	271	25.50	24.98
					270	0	22.50	20.79
				64QAM	1	1	24.00	22.79
					1	271	24.00	23.27
					270	0	22.00	21.32
				256QAM	1	1	22.00	21.09
					1	271	22.00	21.54
					270	0	20.50	19.30
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.76
					1	271	26.50	25.96
					270	0	24.00	23.38
				QPSK	1	1	26.50	25.63
					1	271	26.50	25.95
					270	0	24.00	22.96
				16QAM	1	1	25.50	24.77
					1	271	25.50	24.88
					270	0	22.50	21.05
				64QAM	1	1	24.00	21.48
					1	271	24.00	21.45
					270	0	22.00	21.49
				256QAM	1	1	22.00	21.02
					1	271	22.00	21.48
					270	0	20.50	19.48
		528000	2640	PI/2 BPSK	1	1	26.50	25.85
					1	271	26.50	25.81
					270	0	24.00	23.56
				QPSK	1	1	26.50	25.83
					1	271	26.50	25.85
					270	0	24.00	23.01
				16QAM	1	1	25.50	24.85
					1	271	25.50	24.88
					270	0	22.50	20.97
				64QAM	1	1	24.00	22.90
					1	271	24.00	23.24
					270	0	22.00	22.20
				256QAM	1	1	22.00	21.31
					1	271	22.00	21.40
					270	0	20.50	19.55

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	27.00	25.65
		518598	2592.99	PI/2 BPSK	1	1	27.00	25.71
		534000	2670	PI/2 BPSK	1	1	27.00	25.90
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	27.00	25.70
		518598	2592.99	PI/2 BPSK	1	1	27.00	25.75
		535000	2675	PI/2 BPSK	1	1	27.00	25.95
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	27.00	25.77
		518598	2592.99	PI/2 BPSK	1	1	27.00	25.81
		534000	2670	PI/2 BPSK	1	1	27.00	26.00
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	27.00	25.84
		518598	2592.99	PI/2 BPSK	1	1	27.00	25.89
		532998	2664.99	PI/2 BPSK	1	1	27.00	26.05
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	27.00	25.91
		518598	2592.99	PI/2 BPSK	1	1	27.00	25.94
		531996	2659.98	PI/2 BPSK	1	1	27.00	26.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	27.00	25.98
		518598	2592.99	PI/2 BPSK	1	1	27.00	26.00
		529998	2649.99	PI/2 BPSK	1	1	27.00	26.15
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	27.00	26.05
		518598	2592.99	PI/2 BPSK	1	1	27.00	26.05
		529998	2649.99	PI/2 BPSK	1	1	27.00	26.21
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	27.00	26.09
		518598	2592.99	PI/2 BPSK	1	1	27.00	26.13
		528996	2644.98	PI/2 BPSK	1	1	27.00	26.28
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	27.00	26.13
					1	271	27.00	26.49
					270	0	24.50	23.73
				QPSK	1	1	27.00	26.11
					1	271	27.00	26.50
					270	0	24.50	23.25
				16QAM	1	1	26.00	25.03
					1	271	26.00	25.41
					270	0	22.50	21.23
				64QAM	1	1	25.00	23.27
					1	271	25.00	23.69
					270	0	22.50	21.74
				256QAM	1	1	23.00	21.57
					1	271	23.00	22.01
					270	0	21.00	19.74
		518598	2592.99	PI/2 BPSK	1	1	27.00	26.19
					1	271	27.00	26.40
					270	0	24.50	23.86
				QPSK	1	1	27.00	26.12
					1	271	27.00	26.36
					270	0	24.50	23.38
				16QAM	1	1	26.00	25.17
					1	271	26.00	25.31
					270	0	22.50	21.47
				64QAM	1	1	25.00	21.91
					1	271	25.00	21.92
					270	0	22.50	21.91
				256QAM	1	1	23.00	21.49
					1	271	23.00	21.94
					270	0	21.00	19.91
		528000	2640	PI/2 BPSK	1	1	27.00	26.34
					1	271	27.00	26.30
					270	0	24.50	23.99
				QPSK	1	1	27.00	26.28
					1	271	27.00	26.30
					270	0	24.50	23.45
				16QAM	1	1	26.00	25.32
					1	271	26.00	25.31
					270	0	22.50	21.45
				64QAM	1	1	25.00	23.37
					1	271	25.00	23.65
					270	0	22.50	22.61
				256QAM	1	1	23.00	21.75
					1	271	23.00	21.89
					270	0	21.00	20.01

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	25.50	24.69
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.61
		534000	2670	PI/2 BPSK	1	1	25.50	24.57
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	25.50	24.73
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.66
		535000	2675	PI/2 BPSK	1	1	25.50	24.64
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	25.50	24.78
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.70
		534000	2670	PI/2 BPSK	1	1	25.50	24.69
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	25.50	24.92
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.84
		532998	2664.99	PI/2 BPSK	1	1	25.50	24.79
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	25.50	24.99
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.89
		531996	2659.98	PI/2 BPSK	1	1	25.50	24.85
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	25.50	25.06
		518598	2592.99	PI/2 BPSK	1	1	25.50	24.95
		529998	2649.99	PI/2 BPSK	1	1	25.50	24.89
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	25.50	25.13
		518598	2592.99	PI/2 BPSK	1	1	25.50	25.00
		529998	2649.99	PI/2 BPSK	1	1	25.50	24.95
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	25.50	25.17
		518598	2592.99	PI/2 BPSK	1	1	25.50	25.08
		528996	2644.98	PI/2 BPSK	1	1	25.50	25.02
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	25.50	25.21
					1	271	25.50	25.14
					270	0	25.00	24.76
				QPSK	1	1	25.50	25.38
					1	271	25.50	25.34
					270	0	25.00	24.87
				16QAM	1	1	24.50	24.18
					1	271	24.50	24.13
					270	0	23.50	23.29
				64QAM	1	1	23.50	23.16
					1	271	23.50	23.20
					270	0	22.50	22.20
				256QAM	1	1	22.50	22.10
					1	271	22.50	22.06
					270	0	21.50	21.22
		518598	2592.99	PI/2 BPSK	1	1	25.50	25.14
					1	271	25.50	25.08
					270	0	25.00	24.68
				QPSK	1	1	25.50	25.44
					1	271	25.50	25.43
					270	0	25.00	24.96
				16QAM	1	1	24.50	24.11
					1	271	24.50	24.06
					270	0	23.50	23.22
				64QAM	1	1	23.50	23.12
					1	271	23.50	23.13
					270	0	22.50	22.13
				256QAM	1	1	22.50	22.03
					1	271	22.50	21.99
					270	0	21.50	21.15
		528000	2640	PI/2 BPSK	1	1	25.50	25.08
					1	271	25.50	25.04
					270	0	25.00	24.89
				QPSK	1	1	25.50	25.39
					1	271	25.50	25.34
					270	0	25.00	24.87
				16QAM	1	1	24.50	24.05
					1	271	24.50	24.00
					270	0	23.50	23.16
				64QAM	1	1	23.50	23.03
					1	271	23.50	23.07
					270	0	22.50	22.07
				256QAM	1	1	22.50	21.97
					1	271	22.50	21.93
					270	0	21.50	21.09

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P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	26.00	24.82
		518598	2592.99	PI/2 BPSK	1	1	26.00	24.93
		534000	2670	PI/2 BPSK	1	1	26.00	25.04
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	26.00	24.85
		518598	2592.99	PI/2 BPSK	1	1	26.00	24.90
		535000	2675	PI/2 BPSK	1	1	26.00	25.12
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	26.00	24.92
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.01
		534000	2670	PI/2 BPSK	1	1	26.00	25.14
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	26.00	25.05
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.02
		532998	2664.99	PI/2 BPSK	1	1	26.00	25.25
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	26.00	25.12
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.09
		531996	2659.98	PI/2 BPSK	1	1	26.00	25.32
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	26.00	25.11
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.14
		529998	2649.99	PI/2 BPSK	1	1	26.00	25.32
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	26.00	25.20
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.27
		529998	2649.99	PI/2 BPSK	1	1	26.00	25.42
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	26.00	25.27
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.35
		528996	2644.98	PI/2 BPSK	1	1	26.00	25.49
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	26.00	25.32
					1	271	26.00	25.63
					270	0	24.50	22.92
				QPSK	1	1	26.00	25.26
					1	271	26.00	25.70
					270	0	24.50	22.53
				16QAM	1	1	25.00	24.21
					1	271	25.00	24.61
					270	0	22.00	20.42
				64QAM	1	1	24.00	22.42
					1	271	24.00	22.90
					270	0	22.00	20.95
				256QAM	1	1	22.00	20.72
					1	271	22.00	21.17
					270	0	20.00	18.93
		518598	2592.99	PI/2 BPSK	1	1	26.00	25.39
					1	271	26.00	25.59
					270	0	24.50	23.01
				QPSK	1	1	26.00	25.26
					1	271	26.00	25.58
					270	0	24.50	22.59
				16QAM	1	1	25.00	24.40
					1	271	25.00	24.51
					270	0	22.00	20.68
				64QAM	1	1	23.00	21.11
					1	271	23.00	21.08
					270	0	22.00	21.12
				256QAM	1	1	22.00	20.65
					1	271	22.00	21.11
					270	0	20.00	19.11
		528000	2640	PI/2 BPSK	1	1	26.00	25.48
					1	271	26.00	25.44
					270	0	24.50	23.19
				QPSK	1	1	26.00	25.46
					1	271	26.00	25.48
					270	0	24.50	22.64
				16QAM	1	1	25.00	24.48
					1	271	25.00	24.51
					270	0	22.00	20.60
				64QAM	1	1	24.00	22.53
					1	271	24.00	22.87
					270	0	22.00	21.83
				256QAM	1	1	22.00	20.94
					1	271	22.00	21.03
					270	0	20.00	19.18

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	26.50	25.65
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.71
		534000	2670	PI/2 BPSK	1	1	26.50	25.90
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	26.50	25.29
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.34
		535000	2675	PI/2 BPSK	1	1	26.50	25.54
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	26.50	25.36
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.40
		534000	2670	PI/2 BPSK	1	1	26.50	25.59
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	26.50	25.43
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.48
		532998	2664.99	PI/2 BPSK	1	1	26.50	25.64
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	26.50	25.50
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.53
		531996	2659.98	PI/2 BPSK	1	1	26.50	25.70
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	26.50	25.57
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.59
		529998	2649.99	PI/2 BPSK	1	1	26.50	25.74
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	26.50	25.64
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.64
		529998	2649.99	PI/2 BPSK	1	1	26.50	25.80
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	26.50	25.68
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.72
		528996	2644.98	PI/2 BPSK	1	1	26.50	25.87
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	26.50	25.72
					1	271	26.50	26.08
					270	0	24.50	23.32
				QPSK	1	1	26.50	25.70
					1	271	26.50	26.09
					270	0	24.50	22.84
				16QAM	1	1	25.50	24.62
					1	271	25.50	25.00
					270	0	22.00	20.82
				64QAM	1	1	24.50	22.86
					1	271	24.50	23.28
					270	0	22.00	21.33
				256QAM	1	1	22.00	21.16
					1	271	22.00	21.60
					270	0	20.00	19.33
		518598	2592.99	PI/2 BPSK	1	1	26.50	25.78
					1	271	26.50	25.99
					270	0	24.50	23.45
				QPSK	1	1	26.50	25.71
					1	271	26.50	25.95
					270	0	24.50	22.97
				16QAM	1	1	25.50	24.76
					1	271	25.50	24.90
					270	0	22.00	21.06
				64QAM	1	1	22.00	21.50
					1	271	22.00	21.51
					270	0	22.00	21.50
				256QAM	1	1	22.00	21.08
					1	271	22.00	21.53
					270	0	20.00	19.50
		528000	2640	PI/2 BPSK	1	1	26.50	25.93
					1	271	26.50	25.89
					270	0	24.50	23.58
				QPSK	1	1	26.50	25.87
					1	271	26.50	25.89
					270	0	24.50	23.04
				16QAM	1	1	25.50	24.91
					1	271	25.50	24.90
					270	0	22.00	21.04
				64QAM	1	1	24.50	22.96
					1	271	24.50	23.24
					270	0	23.00	22.20
				256QAM	1	1	22.00	21.34
					1	271	22.00	21.48
					270	0	20.00	19.60

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	20	501204	2506.02	PI/2 BPSK	1	1	25.00	24.16
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.12
		534000	2670	PI/2 BPSK	1	1	25.00	24.13
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	30	502200	2511	PI/2 BPSK	1	1	25.00	24.25
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.21
		535000	2675	PI/2 BPSK	1	1	25.00	24.23
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	40	503202	2516.01	PI/2 BPSK	1	1	25.00	24.32
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.27
		534000	2670	PI/2 BPSK	1	1	25.00	24.23
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	50	504204	2521.02	PI/2 BPSK	1	1	25.00	24.39
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.35
		532998	2664.99	PI/2 BPSK	1	1	25.00	24.28
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	60	505200	2526	PI/2 BPSK	1	1	25.00	24.46
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.40
		531996	2659.98	PI/2 BPSK	1	1	25.00	24.34
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	70	507204	2536.02	PI/2 BPSK	1	1	25.00	24.53
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.46
		529998	2649.99	PI/2 BPSK	1	1	25.00	24.48
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	80	507204	2536.02	PI/2 BPSK	1	1	25.00	24.60
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.51
		529998	2649.99	PI/2 BPSK	1	1	25.00	24.44
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	90	508200	2541	PI/2 BPSK	1	1	25.00	24.64
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.59
		528996	2644.98	PI/2 BPSK	1	1	25.00	24.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n41_SA	100	509202	2546.01	PI/2 BPSK	1	1	25.00	24.68
					1	271	25.00	24.61
					270	0	24.50	24.27
				QPSK	1	1	25.00	24.78
					1	271	25.00	24.76
					270	0	24.50	24.43
				16QAM	1	1	24.00	23.57
					1	271	24.00	23.60
					270	0	23.00	22.76
				64QAM	1	1	23.00	22.63
					1	271	23.00	22.67
					270	0	22.00	21.67
				256QAM	1	1	22.00	21.57
					1	271	22.00	21.53
					270	0	21.00	20.69
		518598	2592.99	PI/2 BPSK	1	1	25.00	24.65
					1	271	25.00	24.58
					270	0	24.50	24.26
				QPSK	1	1	25.00	24.83
					1	271	25.00	24.78
					270	0	24.50	24.44
				16QAM	1	1	24.00	23.62
					1	271	24.00	23.57
					270	0	23.00	22.73
				64QAM	1	1	23.00	22.62
					1	271	23.00	22.64
					270	0	22.00	21.64
				256QAM	1	1	22.00	21.54
					1	271	22.00	21.50
					270	0	21.00	20.66
		528000	2640	PI/2 BPSK	1	1	25.00	24.57
					1	271	25.00	24.51
					270	0	24.50	24.20
				QPSK	1	1	25.00	24.79
					1	271	25.00	24.71
					270	0	24.50	24.44
				16QAM	1	1	24.00	23.54
					1	271	24.00	23.49
					270	0	23.00	22.65
				64QAM	1	1	23.00	22.52
					1	271	23.00	22.56
					270	0	22.00	21.56
				256QAM	1	1	22.00	21.46
					1	271	22.00	21.42
					270	0	21.00	20.58

NR n48 MAIN

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	10	637000	3555	PI/2 BPSK	1	1	21.50	20.99
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.10
		646332	3694.98	PI/2 BPSK	1	1	21.50	20.82
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	20	637334	3560.01	PI/2 BPSK	1	1	21.50	21.04
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.18
		646000	3690	PI/2 BPSK	1	1	21.50	20.87
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	30	637668	3565.02	PI/2 BPSK	1	1	21.50	21.09
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.22
		645666	3684.99	PI/2 BPSK	1	1	21.50	20.97
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	40	638000	3570	PI/2 BPSK	1	1	21.50	21.16
					1	104	21.50	21.12
					100	0	21.00	20.55
				QPSK	1	1	21.50	21.10
					1	104	21.50	21.09
					100	0	21.00	20.17
				16QAM	1	1	21.00	20.05
					1	104	21.00	20.24
					100	0	20.00	19.19
				64QAM	1	1	20.00	18.67
					1	104	20.00	18.69
					100	0	19.00	18.55
				256QAM	1	1	17.00	16.68
					1	104	17.00	16.61
					100	0	17.00	16.67
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.28
					1	104	21.50	21.32
					100	0	21.00	20.63
				QPSK	1	1	21.50	21.26
					1	104	21.50	21.14
					100	0	21.00	20.12
				16QAM	1	1	21.00	20.35
					1	104	21.00	20.19
					100	0	20.00	19.15
				64QAM	1	1	20.00	18.73
					1	104	20.00	18.72
					100	0	19.00	18.64
				256QAM	1	1	17.00	16.71
					1	104	17.00	16.59
					100	0	17.00	16.64
		645332	3679.98	PI/2 BPSK	1	1	21.50	21.19
					1	104	21.50	21.02
					100	0	21.00	20.77
				QPSK	1	1	21.50	21.08
					1	104	21.50	20.98
					100	0	21.00	20.22
				16QAM	1	1	21.00	20.23
					1	104	21.00	20.30
					100	0	20.00	19.18
				64QAM	1	1	20.00	18.72
					1	104	20.00	18.57
					100	0	19.00	18.68
				256QAM	1	1	17.00	16.67
					1	104	17.00	16.67
					100	0	17.00	16.27

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	10	637000	3555	PI/2 BPSK	1	1	20.50	20.06
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.06
		646332	3694.98	PI/2 BPSK	1	1	20.50	19.98
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	20	637334	3560.01	PI/2 BPSK	1	1	20.50	20.13
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.11
		646000	3690	PI/2 BPSK	1	1	20.50	20.04
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	30	637668	3565.02	PI/2 BPSK	1	1	20.50	20.17
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.19
		645666	3684.99	PI/2 BPSK	1	1	20.50	20.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n48_SA	40	638000	3570	PI/2 BPSK	1	1	20.50	20.21
					1	104	20.50	20.14
					100	0	20.00	19.76
				QPSK	1	1	20.50	20.41
					1	104	20.50	20.38
					100	0	20.00	19.86
				16QAM	1	1	19.50	19.18
					1	104	19.50	19.13
					100	0	18.50	18.29
				64QAM	1	1	18.50	18.16
					1	104	18.50	18.20
					100	0	17.50	17.20
				256QAM	1	1	17.50	17.10
					1	104	17.50	17.06
					100	0	16.50	16.22
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.25
					1	104	20.50	20.21
					100	0	20.00	19.78
				QPSK	1	1	20.50	20.45
					1	104	20.50	20.41
					100	0	20.00	20.89
				16QAM	1	1	19.50	19.22
					1	104	19.50	19.17
					100	0	18.50	18.33
				64QAM	1	1	18.50	18.25
					1	104	18.50	18.24
					100	0	17.50	17.24
				256QAM	1	1	17.50	17.14
					1	104	17.50	17.10
					100	0	16.50	16.26
		645332	3679.98	PI/2 BPSK	1	1	20.50	20.17
					1	104	20.50	20.14
					100	0	20.00	19.63
				QPSK	1	1	20.50	20.42
					1	104	20.50	20.35
					100	0	20.00	19.78
				16QAM	1	1	19.50	19.14
					1	104	19.50	19.09
					100	0	18.50	18.25
				64QAM	1	1	18.50	18.12
					1	104	18.50	18.16
					100	0	17.50	17.16
				256QAM	1	1	17.50	17.06
					1	104	17.50	17.02
					100	0	16.50	16.18

NR n48 MIMO

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	10	637000	3555	PI/2 BPSK	1	1	21.50	20.82
		641666	3624.99	PI/2 BPSK	1	1	21.50	20.93
		646332	3694.98	PI/2 BPSK	1	1	21.50	20.65
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	20	637334	3560.01	PI/2 BPSK	1	1	21.50	20.87
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.01
		646000	3690	PI/2 BPSK	1	1	21.50	20.70
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	30	637668	3565.02	PI/2 BPSK	1	1	21.50	21.09
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.22
		645666	3684.99	PI/2 BPSK	1	1	21.50	20.97
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	40	638000	3570	PI/2 BPSK	1	1	21.50	20.99
					1	104	21.50	20.95
					100	0	21.00	20.38
				QPSK	1	1	21.50	20.93
					1	104	21.50	20.92
					100	0	21.00	20.00
				16QAM	1	1	20.50	19.88
					1	104	20.50	20.07
					100	0	19.50	19.02
				64QAM	1	1	19.50	18.50
					1	104	19.50	18.52
					100	0	19.00	18.38
				256QAM	1	1	17.50	16.51
					1	104	17.50	16.44
					100	0	17.00	16.50
		641666	3624.99	PI/2 BPSK	1	1	21.50	21.11
					1	104	21.50	21.15
					100	0	21.00	20.46
				QPSK	1	1	21.50	21.09
					1	104	21.50	20.97
					100	0	21.00	19.95
				16QAM	1	1	20.50	20.18
					1	104	20.50	20.02
					100	0	19.50	18.98
				64QAM	1	1	19.50	18.56
					1	104	19.50	18.55
					100	0	19.00	18.47
				256QAM	1	1	17.50	16.54
					1	104	17.50	16.42
					100	0	17.00	16.47
		645332	3679.98	PI/2 BPSK	1	1	21.50	21.02
					1	104	21.50	20.85
					100	0	21.00	20.60
				QPSK	1	1	21.50	20.91
					1	104	21.50	20.81
					100	0	21.00	20.05
				16QAM	1	1	20.50	20.06
					1	104	20.50	20.13
					100	0	19.50	19.01
				64QAM	1	1	19.50	18.55
					1	104	19.50	18.40
					100	0	19.00	18.51
				256QAM	1	1	17.50	16.50
					1	104	17.50	16.50
					100	0	17.00	16.10

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	10	637000	3555	PI/2 BPSK	1	1	20.50	20.06
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.03
		646332	3694.98	PI/2 BPSK	1	1	20.50	20.00
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	20	637334	3560.01	PI/2 BPSK	1	1	20.50	20.13
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.08
		646000	3690	PI/2 BPSK	1	1	20.50	20.06
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	30	637668	3565.02	PI/2 BPSK	1	1	20.50	20.17
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.16
		645666	3684.99	PI/2 BPSK	1	1	20.50	20.13
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n48_SA	40	638000	3570	PI/2 BPSK	1	1	20.50	20.21
					1	104	20.50	20.09
					100	0	20.00	19.78
				QPSK	1	1	20.50	20.34
					1	104	20.50	20.31
					100	0	20.00	19.75
				16QAM	1	1	19.50	19.18
					1	104	19.50	19.13
					100	0	18.50	18.29
				64QAM	1	1	18.50	18.16
					1	104	18.50	18.20
					100	0	17.50	17.20
				256QAM	1	1	17.50	17.10
					1	104	17.50	17.06
					100	0	16.50	16.22
		641666	3624.99	PI/2 BPSK	1	1	20.50	20.22
					1	104	20.50	20.09
					100	0	20.00	19.77
				QPSK	1	1	20.50	20.39
					1	104	20.50	20.36
					100	0	20.00	19.78
				16QAM	1	1	19.50	19.19
					1	104	19.50	19.14
					100	0	18.50	18.30
				64QAM	1	1	18.50	18.13
					1	104	18.50	18.21
					100	0	17.50	17.21
				256QAM	1	1	17.50	17.11
					1	104	17.50	17.07
					100	0	16.50	16.23
		645332	3679.98	PI/2 BPSK	1	1	20.50	20.19
					1	104	20.50	20.14
					100	0	20.00	19.65
				QPSK	1	1	20.50	20.36
					1	104	20.50	20.33
					100	0	20.00	19.69
				16QAM	1	1	19.50	19.16
					1	104	19.50	19.11
					100	0	18.50	18.27
				64QAM	1	1	18.50	18.14
					1	104	18.50	18.18
					100	0	17.50	17.18
				256QAM	1	1	17.50	17.08
					1	104	17.50	17.04
					100	0	16.50	16.20

NR n66 MAIN

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	5	342500	1712.5	PI/2 BPSK	1	1	24.00	23.19
		349000	1745	PI/2 BPSK	1	1	24.00	23.20
		355500	1777.5	PI/2 BPSK	1	1	24.00	23.26
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	10	343000	1715	PI/2 BPSK	1	1	24.00	23.25
		349000	1745	PI/2 BPSK	1	1	24.00	23.28
		355000	1775	PI/2 BPSK	1	1	24.00	23.33
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	15	343500	1717.5	PI/2 BPSK	1	1	24.00	23.30
		349000	1745	PI/2 BPSK	1	1	24.00	23.36
		354500	1772.5	PI/2 BPSK	1	1	24.00	23.38
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	20	344000	1720	PI/2 BPSK	1	1	24.00	23.34
		349000	1745	PI/2 BPSK	1	1	24.00	23.41
		354000	1770	PI/2 BPSK	1	1	24.00	23.45
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	30	345000	1725	PI/2 BPSK	1	1	24.00	23.39
		349000	1745	PI/2 BPSK	1	1	24.00	23.45
		353000	1765	PI/2 BPSK	1	1	24.00	23.50
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	40	346000	1730	PI/2 BPSK	1	1	24.00	23.46
					1	214	24.00	23.51
					216	0	23.50	23.16
				QPSK	1	1	24.00	23.57
					1	214	24.00	23.75
					216	0	23.50	22.72
				16QAM	1	1	23.00	22.59
					1	214	23.00	22.80
					216	0	22.00	21.73
				64QAM	1	1	22.00	21.24
					1	214	22.00	21.33
					216	0	21.50	21.28
				256QAM	1	1	20.00	19.04
					1	214	20.00	19.15
					216	0	20.00	19.32
		349000	1745	PI/2 BPSK	1	1	24.00	23.51
					1	214	24.00	23.61
					216	0	23.50	23.19
				QPSK	1	1	24.00	23.70
					1	214	24.00	23.79
					216	0	23.50	22.70
				16QAM	1	1	23.00	22.79
					1	214	23.00	22.87
					216	0	22.00	21.81
				64QAM	1	1	22.00	21.34
					1	214	22.00	21.38
					216	0	21.50	21.39
				256QAM	1	1	20.00	19.14
					1	214	20.00	19.12
					216	0	20.00	19.38
		352000	1760	PI/2 BPSK	1	1	24.00	23.55
					1	214	24.00	23.61
					216	0	23.50	23.17
				QPSK	1	1	24.00	23.73
					1	214	24.00	23.82
					216	0	23.50	22.68
				16QAM	1	1	23.00	22.75
					1	214	23.00	22.95
					216	0	22.00	21.83
				64QAM	1	1	22.00	21.29
					1	214	22.00	21.50
					216	0	21.50	21.28
				256QAM	1	1	20.00	19.23
					1	214	20.00	19.18
					216	0	20.00	19.33

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	5	342500	1712.5	PI/2 BPSK	1	1	19.00	18.13
		349000	1745	PI/2 BPSK	1	1	19.00	18.16
		355500	1777.5	PI/2 BPSK	1	1	19.00	18.20
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	10	343000	1715	PI/2 BPSK	1	1	19.00	18.22
		349000	1745	PI/2 BPSK	1	1	19.00	18.25
		355000	1775	PI/2 BPSK	1	1	19.00	18.36
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	15	343500	1717.5	PI/2 BPSK	1	1	19.00	18.43
		349000	1745	PI/2 BPSK	1	1	19.00	18.44
		354500	1772.5	PI/2 BPSK	1	1	19.00	18.52
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	20	344000	1720	PI/2 BPSK	1	1	19.00	18.50
		349000	1745	PI/2 BPSK	1	1	19.00	18.55
		354000	1770	PI/2 BPSK	1	1	19.00	18.62
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	30	345000	1725	PI/2 BPSK	1	1	19.00	18.63
		349000	1745	PI/2 BPSK	1	1	19.00	18.69
		353000	1765	PI/2 BPSK	1	1	19.00	18.61
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n66_SA	40	346000	1730	PI/2 BPSK	1	1	19.00	18.65
					1	214	19.00	18.61
					216	0	18.50	18.32
				QPSK	1	1	19.00	18.85
					1	214	19.00	18.81
					216	0	18.50	18.42
				16QAM	1	1	18.00	17.62
					1	214	18.00	17.57
					216	0	17.00	16.73
				64QAM	1	1	17.00	16.60
					1	214	17.00	16.64
					216	0	16.00	15.64
				256QAM	1	1	16.00	15.54
					1	214	16.00	15.50
					216	0	15.00	14.66
		349000	1745	PI/2 BPSK	1	1	19.00	18.69
					1	214	19.00	18.63
					216	0	18.50	18.21
				QPSK	1	1	19.00	18.96
					1	214	19.00	18.92
					216	0	18.50	18.48
				16QAM	1	1	18.00	17.66
					1	214	18.00	17.61
					216	0	17.00	16.77
				64QAM	1	1	17.00	16.67
					1	214	17.00	16.68
					216	0	16.00	15.68
				256QAM	1	1	16.00	15.58
					1	214	16.00	15.54
					216	0	15.00	14.70
		352000	1760	PI/2 BPSK	1	1	19.00	18.75
					1	214	19.00	18.73
					216	0	18.50	18.28
				QPSK	1	1	19.00	18.88
					1	214	19.00	18.86
					216	0	18.50	18.44
				16QAM	1	1	18.00	17.72
					1	214	18.00	17.67
					216	0	17.00	16.83
				64QAM	1	1	17.00	16.70
					1	214	17.00	16.74
					216	0	16.00	15.74
				256QAM	1	1	16.00	15.64
					1	214	16.00	15.60
					216	0	15.00	14.76

NR n70 MIMO

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n70_SA	5	339500	1697.5	PI/2 BPSK	1	1	23.00	22.09
		340500	1702.5	PI/2 BPSK	1	1	23.00	22.04
		341500	1707.7	PI/2 BPSK	1	1	23.00	22.28
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n70_SA	10	340000	1700	PI/2 BPSK	1	1	23.00	22.15
		340500	1702.5	PI/2 BPSK	1	1	23.00	22.12
		341000	1705	PI/2 BPSK	1	1	23.00	22.35
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n70_SA	15	340500	1702.5	PI/2 BPSK	1	1	23.00	22.29
					1	77	23.00	22.53
					75	0	22.50	21.89
				QPSK	1	1	23.00	22.02
					1	77	23.00	22.10
					75	0	22.50	21.37
				16QAM	1	1	22.00	21.35
					1	77	22.00	21.40
					75	0	21.00	20.48
				64QAM	1	1	21.00	19.82
					1	77	21.00	19.78
					75	0	20.00	19.82
				256QAM	1	1	18.00	17.82
					1	77	18.00	17.97
					75	0	18.00	17.85

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n70_SA	5	339500	1697.5	PI/2 BPSK	1	1	22.00	21.56
		340500	1702.5	PI/2 BPSK	1	1	22.00	21.60
		341500	1707.7	PI/2 BPSK	1	1	22.00	21.66
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Max.Tune-up (dBm)
n70_SA	10	340000	1700	PI/2 BPSK	1	1	22.00	21.60
		340500	1702.5	PI/2 BPSK	1	1	22.00	21.68
		341000	1705	PI/2 BPSK	1	1	22.00	21.63
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n70_SA	15	340500	1702.5	PI/2 BPSK	1	1	22.00	21.64
					1	77	22.00	21.61
					75	0	21.50	21.32
				QPSK	1	1	22.00	21.75
					1	77	22.00	21.73
					75	0	21.50	21.36
				16QAM	1	1	21.00	20.61
					1	77	21.00	20.56
					75	0	20.00	19.72
				64QAM	1	1	20.00	19.59
					1	77	20.00	19.63
					75	0	19.00	18.63
				256QAM	1	1	19.00	18.53
					1	77	19.00	18.49
					75	0	18.00	17.65

NR n71 MAIN

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	5	133100	665.5	PI/2 BPSK	1	1	24.00	23.57
		136100	680.5	PI/2 BPSK	1	1	24.00	23.52
		139100	695.5	PI/2 BPSK	1	1	24.00	23.61
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	10	133600	668	PI/2 BPSK	1	1	24.00	23.63
		136100	680.5	PI/2 BPSK	1	1	24.00	23.60
		138600	693	PI/2 BPSK	1	1	24.00	23.68
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	15	134100	670.5	PI/2 BPSK	1	1	24.00	23.68
		136100	680.5	PI/2 BPSK	1	1	24.00	23.68
		138100	690.5	PI/2 BPSK	1	1	24.00	23.73
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	20	134600	673	PI/2 BPSK	1	1	24.00	23.72
					1	104	24.00	23.64
					100	0	23.50	23.36
				QPSK	1	1	24.00	23.78
					1	104	24.00	23.74
					100	0	23.50	22.84
				16QAM	1	1	23.00	22.87
					1	104	23.00	22.85
					100	0	22.00	21.90
				64QAM	1	1	22.00	21.54
					1	104	22.00	21.41
					100	0	21.50	21.34
				256QAM	1	1	21.00	19.29
					1	104	21.00	19.30
					100	0	19.00	17.89
		136100	680.5	PI/2 BPSK	1	1	24.00	23.73
					1	104	24.00	23.61
					100	0	23.50	23.31
				QPSK	1	1	24.00	23.84
					1	104	24.00	23.83
					100	0	23.50	22.82
				16QAM	1	1	23.00	22.88
					1	104	23.00	22.88
					100	0	22.00	21.85
				64QAM	1	1	22.00	21.61
					1	104	22.00	21.45
					100	0	21.50	21.35
				256QAM	1	1	21.00	19.19
					1	104	21.00	19.25
					100	0	19.00	17.91
		137600	688	PI/2 BPSK	1	1	24.00	23.80
					1	104	24.00	23.50
					100	0	23.50	23.26
				QPSK	1	1	24.00	23.91
					1	104	24.00	23.57
					100	0	23.50	22.85
				16QAM	1	1	23.00	22.92
					1	104	23.00	22.64
					100	0	22.00	21.94
				64QAM	1	1	22.00	21.61
					1	104	22.00	21.36
					100	0	21.50	21.27
				256QAM	1	1	21.00	19.31
					1	104	21.00	19.11
					100	0	19.00	18.10

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	5	133100	665.5	PI/2 BPSK	1	1	23.00	22.41
		136100	680.5	PI/2 BPSK	1	1	23.00	22.44
		139100	695.5	PI/2 BPSK	1	1	23.00	22.39
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	10	133600	668	PI/2 BPSK	1	1	23.00	22.48
		136100	680.5	PI/2 BPSK	1	1	23.00	22.49
		138600	693	PI/2 BPSK	1	1	23.00	22.45
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	15	134100	670.5	PI/2 BPSK	1	1	23.00	22.52
		136100	680.5	PI/2 BPSK	1	1	23.00	22.57
		138100	690.5	PI/2 BPSK	1	1	23.00	22.52
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n71_SA	20	134600	673	PI/2 BPSK	1	1	23.00	22.56
					1	104	23.00	22.51
					100	0	22.50	22.09
				QPSK	1	1	23.00	22.82
					1	104	23.00	22.78
					100	0	22.50	22.39
				16QAM	1	1	22.00	21.53
					1	104	22.00	21.48
					100	0	21.00	20.64
				64QAM	1	1	21.00	20.51
					1	104	21.00	20.55
					100	0	20.00	19.55
				256QAM	1	1	20.00	19.45
					1	104	20.00	19.41
					100	0	19.00	18.57
		136100	680.5	PI/2 BPSK	1	1	23.00	22.63
					1	104	23.00	22.59
					100	0	22.50	22.34
				QPSK	1	1	23.00	22.89
					1	104	23.00	22.86
					100	0	22.50	22.44
				16QAM	1	1	22.00	21.60
					1	104	22.00	21.55
					100	0	21.00	20.71
				64QAM	1	1	21.00	20.63
					1	104	21.00	20.62
					100	0	20.00	19.62
				256QAM	1	1	20.00	19.52
					1	104	20.00	19.48
					100	0	19.00	18.64
		137600	688	PI/2 BPSK	1	1	23.00	22.58
					1	104	23.00	22.53
					100	0	22.50	22.23
				QPSK	1	1	23.00	22.83
					1	104	23.00	22.77
					100	0	22.50	22.35
				16QAM	1	1	22.00	21.55
					1	104	22.00	21.50
					100	0	21.00	20.66
				64QAM	1	1	21.00	20.53
					1	104	21.00	20.57
					100	0	20.00	19.57
				256QAM	1	1	20.00	19.47
					1	104	20.00	19.43
					100	0	19.00	18.59

NR n77 MAIN

P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	10	630334	3455.01	PI/2 BPSK	1	1	25.50	24.55
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.50
		636334	3545.01	PI/2 BPSK	1	1	25.50	24.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	15	630500	3457.5	PI/2 BPSK	1	1	25.50	24.67
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.63
		636166	3542.49	PI/2 BPSK	1	1	25.50	24.64
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	20	630668	3460.02	PI/2 BPSK	1	1	25.50	24.63
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.66
		636000	3540	PI/2 BPSK	1	1	25.50	24.73
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	30	631000	3465	PI/2 BPSK	1	1	25.50	24.67
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.69
		635666	3534.99	PI/2 BPSK	1	1	25.50	24.74
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	40	631334	3470.01	PI/2 BPSK	1	1	25.50	24.78
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.81
		635334	3530.01	PI/2 BPSK	1	1	25.50	24.82
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	50	631668	3475.02	PI/2 BPSK	1	1	25.50	24.85
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.82
		635000	3525	PI/2 BPSK	1	1	25.50	24.82
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	60	632000	3480	PI/2 BPSK	1	1	25.50	24.95
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.94
		634666	3519.99	PI/2 BPSK	1	1	25.50	24.89
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	70	632334	3485.01	PI/2 BPSK	1	1	25.50	25.01
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.92
		634334	3515.01	PI/2 BPSK	1	1	25.50	24.99
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	80	632668	3490.02	PI/2 BPSK	1	1	25.50	25.04
		633334	3500.01	PI/2 BPSK	1	1	25.50	25.02
		634000	3510	PI/2 BPSK	1	1	25.50	25.02
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	90	633000	3495	PI/2 BPSK	1	1	25.50	25.06
		633334	3500.01	PI/2 BPSK	1	1	25.50	25.12
		633666	3504.99	PI/2 BPSK	1	1	25.50	25.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	100	633334	3500.01	PI/2 BPSK	1	1	25.50	25.16
					1	271	25.50	24.64
					270	0	25.00	24.50
				QPSK	1	1	25.50	25.22
					1	271	25.50	24.70
					270	0	25.00	23.95
				16QAM	1	1	24.50	24.16
					1	271	24.50	23.71
					270	0	23.50	22.90
				64QAM	1	1	23.50	22.23
					1	271	23.50	21.72
					270	0	22.50	22.43
				256QAM	1	1	21.50	20.35
					1	271	21.50	20.09
					270	0	20.50	20.40

BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
10	647000	3705	PI/2 BPSK	1	1	24.50	23.83
	656000	3840	PI/2 BPSK	1	1	24.50	23.71
	665000	3975	PI/2 BPSK	1	1	24.50	22.93
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
15	647168	3707.52	PI/2 BPSK	1	1	24.50	23.82
	656000	3840	PI/2 BPSK	1	1	24.50	23.77
	664832	3972.48	PI/2 BPSK	1	1	24.50	22.97
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
20	647334	3710.01	PI/2 BPSK	1	1	24.50	23.93
	656000	3840	PI/2 BPSK	1	1	24.50	23.82
	664666	3969.99	PI/2 BPSK	1	1	24.50	22.98
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
30	647666	3714.99	PI/2 BPSK	1	1	24.50	24.00
	656000	3840	PI/2 BPSK	1	1	24.50	23.83
	664334	3965.01	PI/2 BPSK	1	1	24.50	23.01
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
40	648000	3720	PI/2 BPSK	1	1	24.50	24.06
	656000	3840	PI/2 BPSK	1	1	24.50	23.97
	664000	3960	PI/2 BPSK	1	1	24.50	23.08
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
50	648334	3725.01	PI/2 BPSK	1	1	24.50	24.06
	656000	3840	PI/2 BPSK	1	1	24.50	23.98
	663666	3954.09	PI/2 BPSK	1	1	24.50	23.21
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
60	648668	3730.02	PI/2 BPSK	1	1	24.50	24.20
	656000	3840	PI/2 BPSK	1	1	24.50	24.07
	663332	3949.98	PI/2 BPSK	1	1	24.50	23.22
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
70	649000	3735	PI/2 BPSK	1	1	24.50	24.23
	656000	3840	PI/2 BPSK	1	1	24.50	24.11
	663000	3945	PI/2 BPSK	1	1	24.50	23.23
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
80	649334	3740.01	PI/2 BPSK	1	1	24.50	24.36
	656000	3840	PI/2 BPSK	1	1	24.50	24.17
	662666	3939.99	PI/2 BPSK	1	1	24.50	23.34
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
90	649668	3745.02	PI/2 BPSK	1	1	24.50	24.35
	656000	3840	PI/2 BPSK	1	1	24.50	24.28
	662332	3934.98	PI/2 BPSK	1	1	24.50	23.37
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
100	650000	3750	PI/2 BPSK	1	1	24.50	24.40
				1	271	24.50	24.46
				270	0	24.00	23.64
			QPSK	1	1	24.50	24.34
				1	271	24.50	24.44
				270	0	24.00	23.15
			16QAM	1	1	23.50	23.31
				1	271	23.50	23.49
				270	0	22.50	22.14
			64QAM	1	1	22.50	21.24
				1	271	22.50	21.36
				270	0	21.50	21.61
			256QAM	1	1	20.00	19.60
				1	271	20.00	19.80
				270	0	20.00	19.66
	656000	3840	PI/2 BPSK	1	1	24.50	24.25
				1	271	24.50	23.55
				270	0	24.00	23.73
			QPSK	1	1	24.50	24.20
				1	271	24.50	23.64
				270	0	24.00	23.26
			16QAM	1	1	23.50	23.20
				1	271	23.50	22.46
				270	0	22.50	22.20
			64QAM	1	1	22.50	21.14
				1	271	22.50	20.46
				270	0	21.50	21.69
			256QAM	1	1	20.00	19.52
				1	271	20.00	18.84
				270	0	20.00	19.68
	662000	3930	PI/2 BPSK	1	1	24.50	23.41
				1	271	24.50	24.20
				270	0	24.00	23.37
			QPSK	1	1	24.50	23.49
				1	271	24.50	24.14
				270	0	24.00	22.87
			16QAM	1	1	23.50	22.42
				1	271	23.50	23.13
				270	0	22.50	21.69
			64QAM	1	1	22.50	20.45
				1	271	22.50	21.07
				270	0	21.50	21.25
			256QAM	1	1	20.00	18.76
				1	271	20.00	19.45
				270	0	20.00	19.21

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	10	630334	3455.01	PI/2 BPSK	1	1	26.00	25.03
		633334	3500.01	PI/2 BPSK	1	1	26.00	24.99
		636334	3545.01	PI/2 BPSK	1	1	26.00	25.04
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	15	630500	3457.5	PI/2 BPSK	1	1	26.00	25.08
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.07
		636166	3542.49	PI/2 BPSK	1	1	26.00	25.09
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	20	630668	3460.02	PI/2 BPSK	1	1	26.00	25.12
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.12
		636000	3540	PI/2 BPSK	1	1	26.00	25.16
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	30	631000	3465	PI/2 BPSK	1	1	26.00	25.17
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.16
		635666	3534.99	PI/2 BPSK	1	1	26.00	25.21
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	40	631334	3470.01	PI/2 BPSK	1	1	26.00	25.24
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.22
		635334	3530.01	PI/2 BPSK	1	1	26.00	25.26
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	50	631668	3475.02	PI/2 BPSK	1	1	26.00	25.31
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.30
		635000	3525	PI/2 BPSK	1	1	26.00	25.31
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	60	632000	3480	PI/2 BPSK	1	1	26.00	25.38
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.35
		634666	3519.99	PI/2 BPSK	1	1	26.00	25.37
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	70	632334	3485.01	PI/2 BPSK	1	1	26.00	25.45
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.41
		634334	3515.01	PI/2 BPSK	1	1	26.00	25.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	80	632668	3490.02	PI/2 BPSK	1	1	26.00	25.52
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.46
		634000	3510	PI/2 BPSK	1	1	26.00	25.47
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	90	633000	3495	PI/2 BPSK	1	1	26.00	25.56
		633334	3500.01	PI/2 BPSK	1	1	26.00	25.54
		633666	3504.99	PI/2 BPSK	1	1	26.00	25.54
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power
n77_SA (3450-3550)	100	633334	3500.01	PI/2 BPSK	1	1	26.00	25.60
					1	271	26.00	25.05
					270	0	25.00	24.94
				QPSK	1	1	26.00	25.72
					1	271	26.00	25.18
					270	0	25.00	24.41
				16QAM	1	1	25.00	24.59
					1	271	25.00	24.19
					270	0	24.00	23.31
				64QAM	1	1	24.00	22.64
					1	271	24.00	22.15
					270	0	23.00	22.88
				256QAM	1	1	23.00	20.84
					1	271	23.00	20.54
					270	0	22.00	20.83

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	10	647000	3705	PI/2 BPSK	1	1	25.00	24.27
		656000	3840	PI/2 BPSK	1	1	25.00	24.14
		665000	3975	PI/2 BPSK	1	1	25.00	23.34
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	15	647168	3707.52	PI/2 BPSK	1	1	25.00	24.32
		656000	3840	PI/2 BPSK	1	1	25.00	24.22
		664832	3972.48	PI/2 BPSK	1	1	25.00	23.39
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	20	647334	3710.01	PI/2 BPSK	1	1	25.00	24.36
		656000	3840	PI/2 BPSK	1	1	25.00	24.27
		664666	3969.99	PI/2 BPSK	1	1	25.00	23.46
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	30	647666	3714.99	PI/2 BPSK	1	1	25.00	24.41
		656000	3840	PI/2 BPSK	1	1	25.00	24.31
		664334	3965.01	PI/2 BPSK	1	1	25.00	23.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	40	648000	3720	PI/2 BPSK	1	1	25.00	24.48
		656000	3840	PI/2 BPSK	1	1	25.00	24.37
		664000	3960	PI/2 BPSK	1	1	25.00	23.56
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	50	648334	3725.01	PI/2 BPSK	1	1	25.00	24.55
		656000	3840	PI/2 BPSK	1	1	25.00	24.45
		663666	3954.09	PI/2 BPSK	1	1	25.00	23.61
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	60	648668	3730.02	PI/2 BPSK	1	1	25.00	24.62
		656000	3840	PI/2 BPSK	1	1	25.00	24.50
		663332	3949.98	PI/2 BPSK	1	1	25.00	23.67
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	70	649000	3735	PI/2 BPSK	1	1	25.00	24.69
		656000	3840	PI/2 BPSK	1	1	25.00	24.56
		663000	3945	PI/2 BPSK	1	1	25.00	23.71
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	80	649334	3740.01	PI/2 BPSK	1	1	25.00	24.76
		656000	3840	PI/2 BPSK	1	1	25.00	24.61
		662666	3939.99	PI/2 BPSK	1	1	25.00	23.77
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	90	649668	3745.02	PI/2 BPSK	1	1	25.00	24.80
		656000	3840	PI/2 BPSK	1	1	25.00	24.69
		662332	3934.98	PI/2 BPSK	1	1	25.00	23.84
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	100	650000	3750	PI/2 BPSK	1	1	25.00	24.84
					1	271	25.00	24.96
					270	0	24.50	24.06
				QPSK	1	1	25.00	24.84
					1	271	25.00	24.92
					270	0	24.50	23.59
				16QAM	1	1	24.00	23.79
					1	271	24.00	23.93
					270	0	23.00	22.59
				64QAM	1	1	23.00	21.71
					1	271	23.00	21.80
					270	0	23.00	22.09
				256QAM	1	1	22.00	20.07
					1	271	22.00	20.21
					270	0	21.00	20.08
		656000	3840	PI/2 BPSK	1	1	25.00	24.75
					1	271	25.00	24.04
					270	0	24.50	24.15
				QPSK	1	1	25.00	24.69
					1	271	25.00	24.04
					270	0	24.50	23.69
				16QAM	1	1	24.00	23.69
					1	271	24.00	22.88
					270	0	23.00	22.65
				64QAM	1	1	23.00	21.59
					1	271	23.00	20.88
					270	0	23.00	22.14
				256QAM	1	1	22.00	19.96
					1	271	22.00	19.29
					270	0	21.00	20.15
		662000	3930	PI/2 BPSK	1	1	25.00	23.90
					1	271	25.00	24.60
					270	0	24.50	23.79
				QPSK	1	1	25.00	23.92
					1	271	25.00	24.62
					270	0	24.50	23.28
				16QAM	1	1	24.00	22.87
					1	271	24.00	23.59
					270	0	23.00	22.19
				64QAM	1	1	23.00	20.92
					1	271	23.00	21.51
					270	0	23.00	21.72
				256QAM	1	1	22.00	19.22
					1	271	22.00	19.89
					270	0	21.00	19.67

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	10	630334	3455.01	PI/2 BPSK	1	1	24.00	23.07
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.10
		636334	3545.01	PI/2 BPSK	1	1	24.00	23.15
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	15	630500	3457.5	PI/2 BPSK	1	1	24.00	23.22
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.21
		636166	3542.49	PI/2 BPSK	1	1	24.00	23.17
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	20	630668	3460.02	PI/2 BPSK	1	1	24.00	23.16
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.17
		636000	3540	PI/2 BPSK	1	1	24.00	23.25
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	30	631000	3465	PI/2 BPSK	1	1	24.00	23.25
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.14
		635666	3534.99	PI/2 BPSK	1	1	24.00	23.28
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	40	631334	3470.01	PI/2 BPSK	1	1	24.00	23.08
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.04
		635334	3530.01	PI/2 BPSK	1	1	24.00	23.10
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	50	631668	3475.02	PI/2 BPSK	1	1	24.00	23.26
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.14
		635000	3525	PI/2 BPSK	1	1	24.00	23.07
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	60	632000	3480	PI/2 BPSK	1	1	24.00	23.11
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.08
		634666	3519.99	PI/2 BPSK	1	1	24.00	23.05
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	70	632334	3485.01	PI/2 BPSK	1	1	24.00	23.18
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.14
		634334	3515.01	PI/2 BPSK	1	1	24.00	23.10
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	80	632668	3490.02	PI/2 BPSK	1	1	24.00	23.25
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.22
		634000	3510	PI/2 BPSK	1	1	24.00	23.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	90	633000	3495	PI/2 BPSK	1	1	24.00	23.36
		633334	3500.01	PI/2 BPSK	1	1	24.00	23.21
		633666	3504.99	PI/2 BPSK	1	1	24.00	23.18
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	100	633334	3500.01	PI/2 BPSK	1	1	24.00	23.65
					1	271	24.00	23.61
					270	0	23.50	23.27
				QPSK	1	1	24.00	23.78
					1	271	24.00	23.76
					270	0	23.50	23.38
				16QAM	1	1	23.00	22.62
					1	271	23.00	22.57
					270	0	22.00	21.73
				64QAM	1	1	22.00	21.60
					1	271	22.00	21.64
					270	0	21.00	20.64
				256QAM	1	1	21.00	20.54
					1	271	21.00	20.50
					270	0	20.00	19.66

BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
10	647000	3705	PI/2 BPSK	1	1	24.00	23.12
	656000	3840	PI/2 BPSK	1	1	24.00	23.18
	665000	3975	PI/2 BPSK	1	1	24.00	23.11
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
15	647168	3707.52	PI/2 BPSK	1	1	24.00	23.18
	656000	3840	PI/2 BPSK	1	1	24.00	23.14
	664832	3972.48	PI/2 BPSK	1	1	24.00	23.06
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
20	647334	3710.01	PI/2 BPSK	1	1	24.00	23.06
	656000	3840	PI/2 BPSK	1	1	24.00	22.95
	664666	3969.99	PI/2 BPSK	1	1	24.00	23.07
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
30	647666	3714.99	PI/2 BPSK	1	1	24.00	23.15
	656000	3840	PI/2 BPSK	1	1	24.00	23.08
	664334	3965.01	PI/2 BPSK	1	1	24.00	23.19
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
40	648000	3720	PI/2 BPSK	1	1	24.00	23.20
	656000	3840	PI/2 BPSK	1	1	24.00	23.12
	664000	3960	PI/2 BPSK	1	1	24.00	23.24
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
50	648334	3725.01	PI/2 BPSK	1	1	24.00	23.27
	656000	3840	PI/2 BPSK	1	1	24.00	23.18
	663666	3954.09	PI/2 BPSK	1	1	24.00	23.29
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
60	648668	3730.02	PI/2 BPSK	1	1	24.00	23.41
	656000	3840	PI/2 BPSK	1	1	24.00	23.31
	663332	3949.98	PI/2 BPSK	1	1	24.00	23.40
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
70	649000	3735	PI/2 BPSK	1	1	24.00	23.48
	656000	3840	PI/2 BPSK	1	1	24.00	23.37
	663000	3945	PI/2 BPSK	1	1	24.00	23.44
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
80	649334	3740.01	PI/2 BPSK	1	1	24.00	23.55
	656000	3840	PI/2 BPSK	1	1	24.00	23.42
	662666	3939.99	PI/2 BPSK	1	1	24.00	23.50
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
90	649668	3745.02	PI/2 BPSK	1	1	24.00	23.59
	656000	3840	PI/2 BPSK	1	1	24.00	23.50
	662332	3934.98	PI/2 BPSK	1	1	24.00	23.57
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
100	650000	3750	PI/2 BPSK	1	1	24.00	23.63
				1	271	24.00	23.61
				270	0	23.50	23.28
			QPSK	1	1	24.00	23.89
				1	271	24.00	23.81
				270	0	23.50	23.44
			16QAM	1	1	23.00	22.60
				1	271	23.00	22.55
				270	0	22.00	21.71
			64QAM	1	1	22.00	21.58
				1	271	22.00	21.62
				270	0	21.00	20.62
			256QAM	1	1	21.00	20.52
				1	271	21.00	20.48
				270	0	20.00	19.64
	656000	3840	PI/2 BPSK	1	1	24.00	23.56
				1	271	24.00	23.51
				270	0	23.50	23.21
			QPSK	1	1	24.00	23.63
				1	271	24.00	23.61
				270	0	23.50	23.15
			16QAM	1	1	23.00	22.53
				1	271	23.00	22.48
				270	0	22.00	21.64
			64QAM	1	1	22.00	21.55
				1	271	22.00	21.55
				270	0	21.00	20.55
			256QAM	1	1	21.00	20.45
				1	271	21.00	20.41
				270	0	20.00	19.57
	662000	3930	PI/2 BPSK	1	1	24.00	23.63
				1	271	24.00	23.55
				270	0	23.50	23.23
			QPSK	1	1	24.00	23.88
				1	271	24.00	23.75
				270	0	23.50	23.19
			16QAM	1	1	23.00	22.60
				1	271	23.00	22.55
				270	0	22.00	21.71
			64QAM	1	1	22.00	21.58
				1	271	22.00	21.62
				270	0	21.00	20.62
			256QAM	1	1	21.00	20.52
				1	271	21.00	20.48
				270	0	20.00	19.64

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P-sensor off

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	10	630334	3455.01	PI/2 BPSK	1	1	25.00	24.12
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.07
		636334	3545.01	PI/2 BPSK	1	1	25.00	24.15
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	15	630500	3457.5	PI/2 BPSK	1	1	25.00	24.24
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.20
		636166	3542.49	PI/2 BPSK	1	1	25.00	24.21
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	20	630668	3460.02	PI/2 BPSK	1	1	25.00	24.20
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.23
		636000	3540	PI/2 BPSK	1	1	25.00	24.30
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	30	631000	3465	PI/2 BPSK	1	1	25.00	24.24
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.26
		635666	3534.99	PI/2 BPSK	1	1	25.00	24.31
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	40	631334	3470.01	PI/2 BPSK	1	1	25.00	24.35
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.38
		635334	3530.01	PI/2 BPSK	1	1	25.00	24.39
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	50	631668	3475.02	PI/2 BPSK	1	1	25.00	24.42
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.39
		635000	3525	PI/2 BPSK	1	1	25.00	24.39
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	60	632000	3480	PI/2 BPSK	1	1	25.00	24.52
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.51
		634666	3519.99	PI/2 BPSK	1	1	25.00	24.46
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	70	632334	3485.01	PI/2 BPSK	1	1	25.00	24.58
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.49
		634334	3515.01	PI/2 BPSK	1	1	25.00	24.56
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	80	632668	3490.02	PI/2 BPSK	1	1	25.00	24.61
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.59
		634000	3510	PI/2 BPSK	1	1	25.00	24.59
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	90	633000	3495	PI/2 BPSK	1	1	25.00	24.63
		633334	3500.01	PI/2 BPSK	1	1	25.00	24.69
		633666	3504.99	PI/2 BPSK	1	1	25.00	24.68
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA	100	633334	3500.01	PI/2 BPSK	1	1	25.00	24.73
					1	271	25.00	24.21
					270	0	24.50	24.07
				QPSK	1	1	25.00	24.79
					1	271	25.00	24.27
					270	0	24.50	23.52
				16QAM	1	1	24.00	23.73
					1	271	24.00	23.28
					270	0	23.00	22.47
				64QAM	1	1	23.00	21.80
					1	271	23.00	21.29
					270	0	22.50	22.00
				256QAM	1	1	21.00	19.92
					1	271	21.00	19.66
					270	0	21.00	19.97

BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
10	647000	3705	PI/2 BPSK	1	1	24.50	23.57
	656000	3840	PI/2 BPSK	1	1	24.50	23.45
	665000	3975	PI/2 BPSK	1	1	24.50	22.67
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
15	647168	3707.52	PI/2 BPSK	1	1	24.50	23.56
	656000	3840	PI/2 BPSK	1	1	24.50	23.51
	664832	3972.48	PI/2 BPSK	1	1	24.50	22.71
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
20	647334	3710.01	PI/2 BPSK	1	1	24.50	23.67
	656000	3840	PI/2 BPSK	1	1	24.50	23.56
	664666	3969.99	PI/2 BPSK	1	1	24.50	22.72
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
30	647666	3714.99	PI/2 BPSK	1	1	24.50	23.74
	656000	3840	PI/2 BPSK	1	1	24.50	23.57
	664334	3965.01	PI/2 BPSK	1	1	24.50	22.75
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
40	648000	3720	PI/2 BPSK	1	1	24.50	23.80
	656000	3840	PI/2 BPSK	1	1	24.50	23.71
	664000	3960	PI/2 BPSK	1	1	24.50	22.82
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
50	648334	3725.01	PI/2 BPSK	1	1	24.50	23.80
	656000	3840	PI/2 BPSK	1	1	24.50	23.72
	663666	3954.09	PI/2 BPSK	1	1	24.50	22.95
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
60	648668	3730.02	PI/2 BPSK	1	1	24.50	23.94
	656000	3840	PI/2 BPSK	1	1	24.50	23.81
	663332	3949.98	PI/2 BPSK	1	1	24.50	22.96
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
70	649000	3735	PI/2 BPSK	1	1	24.50	23.97
	656000	3840	PI/2 BPSK	1	1	24.50	23.85
	663000	3945	PI/2 BPSK	1	1	24.50	22.97
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
80	649334	3740.01	PI/2 BPSK	1	1	24.50	24.10
	656000	3840	PI/2 BPSK	1	1	24.50	23.91
	662666	3939.99	PI/2 BPSK	1	1	24.50	23.08
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
90	649668	3745.02	PI/2 BPSK	1	1	24.50	24.09
	656000	3840	PI/2 BPSK	1	1	24.50	24.02
	662332	3934.98	PI/2 BPSK	1	1	24.50	23.11
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
100	650000	3750	PI/2 BPSK	1	1	24.50	24.14
				1	271	24.50	24.20
				270	0	24.00	23.38
			QPSK	1	1	24.50	24.08
				1	271	24.50	24.18
				270	0	24.00	22.89
			16QAM	1	1	23.50	23.05
				1	271	23.50	23.23
				270	0	22.50	21.88
			64QAM	1	1	22.50	20.98
				1	271	22.50	21.10
				270	0	21.50	21.35
			256QAM	1	1	20.50	19.34
				1	271	20.50	19.54
				270	0	20.50	19.40
	656000	3840	PI/2 BPSK	1	1	24.50	23.99
				1	271	24.50	23.29
				270	0	24.00	23.47
			QPSK	1	1	24.50	23.94
				1	271	24.50	23.38
				270	0	24.00	23.00
			16QAM	1	1	23.50	22.94
				1	271	23.50	22.20
				270	0	22.50	21.94
			64QAM	1	1	22.50	20.88
				1	271	22.50	20.20
				270	0	21.50	21.43
			256QAM	1	1	20.50	19.26
				1	271	20.50	18.58
				270	0	20.50	19.42
	662000	3930	PI/2 BPSK	1	1	24.50	23.15
				1	271	24.50	23.94
				270	0	24.00	23.11
			QPSK	1	1	24.50	23.23
				1	271	24.50	23.88
				270	0	24.00	22.61
			16QAM	1	1	23.50	22.16
				1	271	23.50	22.87
				270	0	22.50	21.43
			64QAM	1	1	22.50	20.19
				1	271	22.50	20.81
				270	0	21.50	20.99
			256QAM	1	1	20.50	18.50
				1	271	20.50	19.19
				270	0	20.50	18.95

P-sensor off (HPUE)

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	10	630334	3455.01	PI/2 BPSK	1	1	25.50	24.65
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.61
		636334	3545.01	PI/2 BPSK	1	1	25.50	24.66
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	15	630500	3457.5	PI/2 BPSK	1	1	25.50	24.70
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.69
		636166	3542.49	PI/2 BPSK	1	1	25.50	24.71
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	20	630668	3460.02	PI/2 BPSK	1	1	25.50	24.74
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.74
		636000	3540	PI/2 BPSK	1	1	25.50	24.78
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	30	631000	3465	PI/2 BPSK	1	1	25.50	24.79
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.78
		635666	3534.99	PI/2 BPSK	1	1	25.50	24.83
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	40	631334	3470.01	PI/2 BPSK	1	1	25.50	24.86
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.84
		635334	3530.01	PI/2 BPSK	1	1	25.50	24.88
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	50	631668	3475.02	PI/2 BPSK	1	1	25.50	24.93
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.92
		635000	3525	PI/2 BPSK	1	1	25.50	24.93
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	60	632000	3480	PI/2 BPSK	1	1	25.50	25.00
		633334	3500.01	PI/2 BPSK	1	1	25.50	24.97
		634666	3519.99	PI/2 BPSK	1	1	25.50	24.99
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	70	632334	3485.01	PI/2 BPSK	1	1	25.50	25.07
		633334	3500.01	PI/2 BPSK	1	1	25.50	25.03
		634334	3515.01	PI/2 BPSK	1	1	25.50	25.03
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	80	632668	3490.02	PI/2 BPSK	1	1	25.50	25.14
		633334	3500.01	PI/2 BPSK	1	1	25.50	25.08
		634000	3510	PI/2 BPSK	1	1	25.50	25.09
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	90	633000	3495	PI/2 BPSK	1	1	25.50	25.18
		633334	3500.01	PI/2 BPSK	1	1	25.50	25.16
		633666	3504.99	PI/2 BPSK	1	1	25.50	25.16
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3450-3550)	100	633334	3500.01	PI/2 BPSK	1	1	25.50	25.22
					1	271	25.50	24.67
					270	0	25.00	24.56
				QPSK	1	1	25.50	25.34
					1	271	25.50	24.80
					270	0	25.00	24.03
				16QAM	1	1	24.50	24.21
					1	271	24.50	23.81
					270	0	23.50	22.93
				64QAM	1	1	23.50	22.26
					1	271	23.50	21.77
					270	0	23.00	22.50
				256QAM	1	1	21.50	20.46
					1	271	21.50	20.16
					270	0	21.50	20.45

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	10	647000	3705	PI/2 BPSK	1	1	25.00	24.27
		656000	3840	PI/2 BPSK	1	1	25.00	24.14
		665000	3975	PI/2 BPSK	1	1	25.00	23.34
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	15	647168	3707.52	PI/2 BPSK	1	1	25.00	24.06
		656000	3840	PI/2 BPSK	1	1	25.00	23.96
		664832	3972.48	PI/2 BPSK	1	1	25.00	23.13
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	20	647334	3710.01	PI/2 BPSK	1	1	25.00	24.10
		656000	3840	PI/2 BPSK	1	1	25.00	24.01
		664666	3969.99	PI/2 BPSK	1	1	25.00	23.20
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	30	647666	3714.99	PI/2 BPSK	1	1	25.00	24.15
		656000	3840	PI/2 BPSK	1	1	25.00	24.05
		664334	3965.01	PI/2 BPSK	1	1	25.00	23.25
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	40	648000	3720	PI/2 BPSK	1	1	25.00	24.22
		656000	3840	PI/2 BPSK	1	1	25.00	24.11
		664000	3960	PI/2 BPSK	1	1	25.00	23.30
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	50	648334	3725.01	PI/2 BPSK	1	1	25.00	24.29
		656000	3840	PI/2 BPSK	1	1	25.00	24.19
		663666	3954.09	PI/2 BPSK	1	1	25.00	23.35
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	60	648668	3730.02	PI/2 BPSK	1	1	25.00	24.36
		656000	3840	PI/2 BPSK	1	1	25.00	24.24
		663332	3949.98	PI/2 BPSK	1	1	25.00	23.41
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	70	649000	3735	PI/2 BPSK	1	1	25.00	24.43
		656000	3840	PI/2 BPSK	1	1	25.00	24.30
		663000	3945	PI/2 BPSK	1	1	25.00	23.45
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	80	649334	3740.01	PI/2 BPSK	1	1	25.00	24.50
		656000	3840	PI/2 BPSK	1	1	25.00	24.35
		662666	3939.99	PI/2 BPSK	1	1	25.00	23.51
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	90	649668	3745.02	PI/2 BPSK	1	1	25.00	24.54
		656000	3840	PI/2 BPSK	1	1	25.00	24.43
		662332	3934.98	PI/2 BPSK	1	1	25.00	23.58
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
n77_SA (3700-3980)	100	650000	3750	PI/2 BPSK	1	1	25.00	24.58
					1	271	25.00	24.70
					270	0	24.50	23.80
				QPSK	1	1	25.00	24.58
					1	271	25.00	24.66
					270	0	24.50	23.33
				16QAM	1	1	24.00	23.53
					1	271	24.00	23.67
					270	0	23.00	22.33
				64QAM	1	1	23.00	21.45
					1	271	23.00	21.54
					270	0	22.00	21.83
				256QAM	1	1	21.00	19.81
					1	271	21.00	19.95
					270	0	21.00	19.82
		656000	3840	PI/2 BPSK	1	1	25.00	24.49
					1	271	25.00	23.78
					270	0	24.50	23.89
				QPSK	1	1	25.00	24.43
					1	271	25.00	23.78
					270	0	24.50	23.43
				16QAM	1	1	24.00	23.43
					1	271	24.00	22.62
					270	0	23.00	22.39
				64QAM	1	1	23.00	21.33
					1	271	23.00	20.62
					270	0	22.00	21.88
				256QAM	1	1	21.00	19.70
					1	271	21.00	19.03
					270	0	21.00	19.89
		662000	3930	PI/2 BPSK	1	1	25.00	23.64
					1	271	25.00	24.34
					270	0	24.50	23.53
				QPSK	1	1	25.00	23.66
					1	271	25.00	24.36
					270	0	24.50	23.02
				16QAM	1	1	24.00	22.61
					1	271	24.00	23.33
					270	0	23.00	21.93
				64QAM	1	1	23.00	20.66
					1	271	23.00	21.25
					270	0	22.00	21.46
				256QAM	1	1	21.00	18.96
					1	271	21.00	19.63
					270	0	21.00	19.41

P-sensor on

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	10	630334	3455.01	PI/2 BPSK	1	1	23.50	23.12
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.25
		636334	3545.01	PI/2 BPSK	1	1	23.50	23.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	15	630500	3457.5	PI/2 BPSK	1	1	23.50	23.08
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.04
		636166	3542.49	PI/2 BPSK	1	1	23.50	23.10
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	20	630668	3460.02	PI/2 BPSK	1	1	23.50	22.96
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.01
		636000	3540	PI/2 BPSK	1	1	23.50	22.85
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	30	631000	3465	PI/2 BPSK	1	1	23.50	23.01
		633334	3500.01	PI/2 BPSK	1	1	23.50	22.94
		635666	3534.99	PI/2 BPSK	1	1	23.50	22.91
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	40	631334	3470.01	PI/2 BPSK	1	1	23.50	23.05
		633334	3500.01	PI/2 BPSK	1	1	23.50	22.78
		635334	3530.01	PI/2 BPSK	1	1	23.50	22.74
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	50	631668	3475.02	PI/2 BPSK	1	1	23.50	22.68
		633334	3500.01	PI/2 BPSK	1	1	23.50	22.78
		635000	3525	PI/2 BPSK	1	1	23.50	22.96
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	60	632000	3480	PI/2 BPSK	1	1	23.50	22.95
		633334	3500.01	PI/2 BPSK	1	1	23.50	22.91
		634666	3519.99	PI/2 BPSK	1	1	23.50	22.78
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	70	632334	3485.01	PI/2 BPSK	1	1	23.50	23.08
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.12
		634334	3515.01	PI/2 BPSK	1	1	23.50	23.21
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	80	632668	3490.02	PI/2 BPSK	1	1	23.50	23.18
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.14
		634000	3510	PI/2 BPSK	1	1	23.50	23.06
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	90	633000	3495	PI/2 BPSK	1	1	23.50	23.15
		633334	3500.01	PI/2 BPSK	1	1	23.50	23.10
		633666	3504.99	PI/2 BPSK	1	1	23.50	23.11
Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up	Average power (dBm)
n77_SA	100	633334	3500.01	PI/2 BPSK	1	1	23.50	23.12
					1	271	23.50	23.08
					270	0	23.00	22.74
				QPSK	1	1	23.50	23.36
					1	271	23.50	23.31
					270	0	23.00	22.88
				16QAM	1	1	22.50	22.09
					1	271	22.50	22.04
					270	0	21.50	21.20
				64QAM	1	1	21.50	21.07
					1	271	21.50	21.11
					270	0	20.50	20.11
				256QAM	1	1	20.50	20.01
					1	271	20.50	19.97
					270	0	19.50	19.13

BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
10	647000	3705	PI/2 BPSK	1	1	23.50	22.54
	656000	3840	PI/2 BPSK	1	1	23.50	22.54
	665000	3975	PI/2 BPSK	1	1	23.50	22.69
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
15	647168	3707.52	PI/2 BPSK	1	1	23.50	22.59
	656000	3840	PI/2 BPSK	1	1	23.50	22.62
	664832	3972.48	PI/2 BPSK	1	1	23.50	22.74
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
20	647334	3710.01	PI/2 BPSK	1	1	23.50	22.63
	656000	3840	PI/2 BPSK	1	1	23.50	22.67
	664666	3969.99	PI/2 BPSK	1	1	23.50	22.81
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
30	647666	3714.99	PI/2 BPSK	1	1	23.50	22.68
	656000	3840	PI/2 BPSK	1	1	23.50	22.71
	664334	3965.01	PI/2 BPSK	1	1	23.50	22.86
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
40	648000	3720	PI/2 BPSK	1	1	23.50	22.75
	656000	3840	PI/2 BPSK	1	1	23.50	22.77
	664000	3960	PI/2 BPSK	1	1	23.50	22.91
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
50	648334	3725.01	PI/2 BPSK	1	1	23.50	22.82
	656000	3840	PI/2 BPSK	1	1	23.50	22.89
	663666	3954.09	PI/2 BPSK	1	1	23.50	22.90
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
60	648668	3730.02	PI/2 BPSK	1	1	23.50	22.96
	656000	3840	PI/2 BPSK	1	1	23.50	22.94
	663332	3949.98	PI/2 BPSK	1	1	23.50	22.91
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
70	649000	3735	PI/2 BPSK	1	1	23.50	23.03
	656000	3840	PI/2 BPSK	1	1	23.50	23.01
	663000	3945	PI/2 BPSK	1	1	23.50	23.12
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
80	649334	3740.01	PI/2 BPSK	1	1	23.50	23.07
	656000	3840	PI/2 BPSK	1	1	23.50	23.09
	662666	3939.99	PI/2 BPSK	1	1	23.50	23.19
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
90	649668	3745.02	PI/2 BPSK	1	1	23.50	23.21
	656000	3840	PI/2 BPSK	1	1	23.50	23.18
	662332	3934.98	PI/2 BPSK	1	1	23.50	23.14
BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	Max.Tune-up (dBm)	Average power (dBm)
100	650000	3750	PI/2 BPSK	1	1	23.50	23.11
				1	271	23.50	23.04
				270	0	23.00	22.74
			QPSK	1	1	23.50	23.48
				1	271	23.50	23.44
				270	0	23.00	22.96
			16QAM	1	1	22.50	22.08
				1	271	22.50	22.03
				270	0	21.50	21.19
			64QAM	1	1	21.50	21.06
				1	271	21.50	21.10
				270	0	20.50	20.10
			256QAM	1	1	20.50	20.00
				1	271	20.50	19.96
				270	0	19.50	19.12
	656000	3840	PI/2 BPSK	1	1	23.50	23.15
				1	271	23.50	23.11
				270	0	23.00	22.88
			QPSK	1	1	23.50	23.18
				1	271	23.50	23.14
				270	0	23.00	22.69
			16QAM	1	1	22.50	22.12
				1	271	22.50	22.07
				270	0	21.50	21.23
			64QAM	1	1	21.50	21.15
				1	271	21.50	21.14
				270	0	20.50	20.14
			256QAM	1	1	20.50	20.04
				1	271	20.50	20.00
				270	0	19.50	19.16
	662000	3930	PI/2 BPSK	1	1	23.50	23.25
				1	271	23.50	23.17
				270	0	23.00	23.39
			QPSK	1	1	23.50	23.44
				1	271	23.50	23.18
				270	0	23.00	23.10
			16QAM	1	1	22.50	22.22
				1	271	22.50	22.17
				270	0	21.50	21.33
			64QAM	1	1	21.50	21.20
				1	271	21.50	21.24
				270	0	20.50	20.24
			256QAM	1	1	20.50	20.14
				1	271	20.50	20.10
				270	0	19.50	19.26

9.4. CONDUCTED POWER MEASUREMENTS OF Bluetooth

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Max Power (dBm)	AVG Power (dBm)
BR	DH5	0	2402	10.50	Not Require
		39	2441	10.50	
		78	2480	10.50	
EDR	2DH5	0	2402	9.50	
		39	2441	9.50	
		78	2480	9.50	
	3DH5	0	2402	9.50	
		39	2441	9.50	
		78	2480	9.50	
BLE	2M	0	2402	9.00	
		19	2440	9.00	
		39	2480	9.00	

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Max Power (dBm)	AVG Power (dBm)
BR	DH5	0	2402	15.50	Not Require
		39	2441	15.50	
		78	2480	15.50	
EDR	2DH5	0	2402	15.00	
		39	2441	15.00	
		78	2480	15.00	
	3DH5	0	2402	15.50	
		39	2441	15.50	
		78	2480	15.50	
BLE	2M	0	2402	15.50	
		19	2440	15.50	
		39	2480	15.50	

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.5. CONDUCTED POWER MEASUREMENTS OF Wi-Fi 2.4GHz Band

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
2.4G	802.11b	1-13	2412-2472	1	21.00	Not Required	
	802.11g	1-13	2412-2472	6	21.00		
	802.11n20	1-13	2412-2472	HT0	21.00		
	802.11n40	3-11	2422-2462	HT0	21.00		
	802.11ax20	1-13	2412-2472	HE0	21.00		
	802.11ax40	3-11	2422-2462	HE0	21.00		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
2.4G	802.11b	1-13	2412-2472	1	23.00	Not Required	
	802.11g	1-13	2412-2472	6	22.00		
	802.11n20	1-13	2412-2472	HT0	22.00		
	802.11n40	3-11	2422-2462	HT0	21.00		
	802.11ax20	1-13	2412-2472	HE0	22.00		
	802.11ax40	3-11	2422-2462	HE0	20.50		
	802.11be20	1-13	2412-2472	EHT	22.00		
	802.11be40	3-11	2422-2462	EHT	20.50		

Note:
WLAN antenna distance is > 20cm, so SAR testing are not require.

9.6. CONDUCTED POWER MEASUREMENTS OF 5G UNII_1

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.2G UNII_1	802.11a	36-48	5180-5240	6	16.00	Not Required	
	802.11 n20	36-48	5180-5240	HT0	16.00		
	802.11 n40	38-46	5190-5230	HT0	18.00		
	802.11 ac80	42	5210	VHT0	18.00		
	802.11 ax20	36-48	5180-5240	HE0	16.00		
	802.11 ax40	38-46	5190-5230	HE0	18.00		
	802.11 ax80	42	5210	HE0	18.00		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.2G UNII_1	802.11a	36-48	5180-5240	6	21.50	Not Required	
	802.11 n20	36-48	5180-5240	HT0	21.75		
	802.11 n40	38-46	5190-5230	HT0	21.75		
	802.11 ac80	42	5210	VHT0	21.00		
	802.11 ax20	36-48	5180-5240	HE0	21.75		
	802.11 ax40	38-46	5190-5230	HE0	21.50		
	802.11 ax80	42	5210	HE0	20.75		
	802.11 be20	36-48	5180-5240	EHT	21.75		
	802.11 be40	38-46	5190-5230	EHT	21.50		
	802.11 be80	42	5210	EHT	20.75		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.7. CONDUCTED POWER MEASUREMENTS OF 5G UNII_2A

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.3G UNII_2a	802.11a	52-64	5260-5320	6	21.00	Not Required	
	802.11 n20	52-64	5260-5320	HT0	21.00		
	802.11 n40	54-62	5270-5310	HT0	21.00		
	802.11 ac80	58	5290	VHT0	18.00		
	802.11 ac160	50	5250	VHT0	15.00		
	802.11 ax20	52-64	5260-5320	HE0	21.00		
	802.11 ax40	54-62	5270-5310	HE0	21.00		
	802.11 ax80	58	5290	HE0	18.00		
	802.11 ax160	50	5250	HE0	15.00		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.3G UNII_2a	802.11a	52-64	5260-5320	6	21.50	Not Required	
	802.11 n20	52-64	5260-5320	HT0	21.75		
	802.11 n40	54-62	5270-5310	HT0	22.50		
	802.11 ac80	58	5290	VHT0	19.50		
	802.11 ac160	50	5250	VHT0	19.50		
	802.11 ax20	52-64	5260-5320	HE0	22.00		
	802.11 ax40	54-62	5270-5310	HE0	22.50		
	802.11 ax80	58	5290	HE0	20.00		
	802.11 ax160	50	5250	HE0	18.75		
	802.11 be20	52-64	5260-5320	EHT	22.00		
	802.11 be40	54-62	5270-5310	EHT	22.50		
	802.11 be80	58	5290	EHT	20.00		
	802.11 be160	50	5250	EHT	18.75		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.8. CONDUCTED POWER MEASUREMENTS OF 5G UNII_2C

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.6G UNII_2c	802.11a	100-140	5500-5700	6	21.00	Not Required	
	802.11 n20	100-140	5500-5700	HT0	21.00		
	802.11 n40	102-134	5510-5670	HT0	21.00		
	802.11 ac80	106-122	5530-5610	VHT0	21.00		
	802.11 ac160	114	5570	VHT0	16.00		
	802.11 ax20	100-128	5500-5640	HE0	21.00		
	802.11 ax40	102-126	5510-5630	HE0	21.00		
	802.11 ax80	106-122	5530-5610	HE0	21.00		
	802.11 ax160	114	5570	HE0	16.00		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.6G UNII_2c	802.11a	100-140	5500-5700	6	21.50	Not Required	
	802.11 n20	100-140	5500-5700	HT0	21.50		
	802.11 n40	102-134	5510-5670	HT0	24.00		
	802.11 ac80	106-138	5530-5690	VHT0	22.00		
	802.11 ac160	114	5570	VHT0	19.00		
	802.11 ax20	100-140	5500-5700	HE0	21.75		
	802.11 ax40	102-134	5510-5670	HE0	23.25		
	802.11 ax80	106-138	5530-5690	HE0	22.50		
	802.11 ax160	114	5570	HE0	19.75		
	802.11 be20	100-140	5500-5700	EHT	21.75		
	802.11 be40	102-134	5510-5670	EHT	23.25		
	802.11 be80	106-138	5530-5690	EHT	22.50		
	802.11 be160	114	5570	EHT	19.75		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.9. CONDUCTED POWER MEASUREMENTS OF 5G UNII_3

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.8G UNII_3	802.11a	149-165	5745-5825	6	21.00	Not Required	
	802.11 n20	149-165	5745-5825	HT0	21.00		
	802.11 n40	151-159	5755-5795	HT0	21.00		
	802.11 ac80	155	5775	VHT0	21.00		
	802.11 ax20	149-165	5745-5825	HE0	21.00		
	802.11 ax40	151-159	5755-5795	HE0	21.00		
	802.11 ax80	155	5775	HE0	21.00		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.8G UNII_3	802.11a	149-165	5745-5825	6	23.75	Not Required	
	802.11 n20	149-165	5745-5825	HT0	23.75		
	802.11 n40	151-159	5755-5795	HT0	23.75		
	802.11 ac80	155	5775	VHT0	21.75		
	802.11 ax20	149-165	5745-5825	HE0	23.75		
	802.11 ax40	151-159	5755-5795	HE0	23.75		
	802.11 ax80	155	5775	HE0	21.75		
	802.11 be20	149-165	5745-5825	EHT	23.75		
	802.11 be40	151-159	5755-5795	EHT	23.75		
	802.11 be80	155	5775	EHT	21.75		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require .

9.10. CONDUCTED POWER MEASUREMENTS OF 5G UNII_4

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
5.9G UNII_4	802.11a	169-177	5845-5885	6	19.75	Not Required	
	802.11 n20	169-177	5845-5885	HT0	20.00		
	802.11 n40	167-175	5835-5875	HT0	23.25		
	802.11 ac80	171	5855	VHT0	22.20		
	802.11 ac160	163	5815	VHT0	19.75		
	802.11 ax20	169-177	5845-5885	HE0	20.00		
	802.11 ax40	167-175	5835-5875	HE0	23.25		
	802.11 ax80	171	5855	HE0	22.25		
	802.11 ax160	163	5815	HE0	19.00		
	802.11 be20	169-177	5845-5885	EHT	20.00		
	802.11 be40	167-175	5835-5875	EHT	23.25		
	802.11 be80	171	5855	EHT	22.25		
	802.11 be160	163	5815	EHT	19.00		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require .

9.11. CONDUCTED POWER MEASUREMENTS OF 6G UNII_5

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.2G UNII_5	802.11 ax20	1 - 93	5955 -6415	HE0	13.50	Not Required	
	802.11 ax40	3 - 43	5965 - 6165	HE0	13.50		
	802.11 ax80	7 - 87	5985 - 6385	HE0	13.50		
	802.11 ax160	15 - 79	6025 - 6345	HE0	13.50		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.2G UNII_5	802.11 ax20	1 - 93	5955 -6415	HE0	22.75	Not Required	
	802.11 ax40	3 - 43	5965 - 6165	HE0	22.75		
	802.11 ax80	7 - 87	5985 - 6385	HE0	22.25		
	802.11 ax160	15 - 79	6025 - 6345	HE0	21.25		
	802.11 be20	1 - 93	5955 -6415	EHT	22.75		
	802.11 be40	3 - 43	5965 - 6165	EHT	22.75		
	802.11 be80	7 - 87	5985 - 6385	EHT	22.25		
	802.11 be160	15 - 79	6025 - 6345	EHT	21.25		
	802.11 be320	31 - 95	6105 - 6425	EHT	18.50		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.12. CONDUCTED POWER MEASUREMENTS OF 6G UNII_6

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.5G UNII_6	802.11 ax20	97 - 113	6435 - 6515	HE0	13.50	Not Required	
	802.11 ax40	99 -107	6445- 6485	HE0	13.50		
	802.11 ax80	103 - 119	6465 - 6545	HE0	13.50		
	802.11 ax160	111	6505	HE0	13.50		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.5G UNII_6	802.11 ax20	97 - 113	6435 - 6515	HE0	5.75	Not Required	
	802.11 ax40	99 -107	6445- 6485	HE0	8.75		
	802.11 ax80	103 - 119	6465 - 6545	HE0	11.75		
	802.11 ax160	111	6505	HE0	14.75		
	802.11 be20	97 - 113	6435 - 6515	EHT	5.75		
	802.11 be40	99 -107	6445- 6485	EHT	8.75		
	802.11 be80	103 - 119	6465 - 6545	EHT	11.75		
	802.11 be160	111	6505	EHT	14.75		

Note:
WLAN antenna distance is > 20cm, so SAR testing are not require.

9.13. CONDUCTED POWER MEASUREMENTS OF 6G UNII_7

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.7G UNII_7	802.11 ax20	117 - 181	6535 - 6855	HE0	13.50	Not Required	
	802.11 ax40	115 - 179	6525 - 6845	HE0	13.50		
	802.11 ax80	135 - 167	6625 - 6785	HE0	13.50		
	802.11 ax160	143 - 175	6665 - 6825	HE0	13.50		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
6.7G UNII_7	802.11 ax20	117 - 181	6535 - 6855	HE0	22.50	Not Required	
	802.11 ax40	115 - 179	6525 - 6845	HE0	22.50		
	802.11 ax80	135 - 167	6625 -6785	HE0	22.00		
	802.11 ax160	143 - 175	6665 - 6825	HE0	20.50		
	802.11 be20	117 - 181	6535 - 6855	EHT	22.50		
	802.11 be40	115 - 179	6525 - 6845	EHT	22.50		
	802.11 be80	135 - 167	6625 -6785	EHT	22.00		
	802.11 be160	143 - 175	6665 - 6825	EHT	20.50		
	802.11 be320	127 - 159	6585 - 6745	EHT	17.25		

Note:

WLAN antenna distance is > 20cm, so SAR testing are not require.

9.14. CONDUCTED POWER MEASUREMENTS OF 6G UNII_8

AX211D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
7.0G UNII_8	802.11 ax20	185 - 233	6875 - 7115	HE0	13.50	Not Required	
	802.11 ax40	187 - 227	6885 - 7085	HE0	13.50		
	802.11 ax80	183 - 215	6865 - 7025	HE0	13.50		
	802.11 ax160	207	6985	HE0	13.50		

BE200D2W

Band	Mode	Channel	Frequency (MHz)	Data Rate	Max Tune-Up Power (dBm)	AVG Power (dBm)	
						Main	Aux
7.0G UNII_8	802.11 ax20	185 - 233	6875 - 7115	HE0	5.75	Not Required	
	802.11 ax40	187 - 227	6885 - 7085	HE0	8.75		
	802.11 ax80	183 - 215	6865 - 7025	HE0	12.00		
	802.11 ax160	207	6985	HE0	14.75		
	802.11 be20	185 - 233	6875 - 7115	EHT	5.75		
	802.11 be40	187 - 227	6885 - 7085	EHT	8.75		
	802.11 be80	183 - 215	6865 - 7025	EHT	12.00		
	802.11 be160	207	6985	EHT	14.75		
	802.11 be320	191	6905	EHT	17.25		

Note:
WLAN antenna distance is > 20cm, so SAR testing are not require.

9.15. SAR TEST RESULTS

General Notes:
Per KDB447498 D04, all measurement SAR results are scaled to the maximum tune-up tolerance limit to demonstrate compliant.

Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:≤0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is≤100 MHz. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

Per KDB865664 D01,for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg; if the deviation among the repeated measurement is ≤20%,and the measured SAR <1.45W/kg, only one repeated measurement is required.

10. SAR TEST RESULTS

10.1. SAR test result

SAR test reults of WWAN

WCDMA

P-Sensor	Band	Mode	channel	distance (mm)	Ant Vendor	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	UMTS Band II	RMC12.2K	9400	0	ICT	Bottom	17.00	16.99	0.954	0.883	0.885	
		RMC12.2K	9262	0		Bottom	17.00	16.88	0.888	0.847	0.871	1
		RMC12.2K	9538	0		Bottom	17.00	16.97	0.995	**0.911**	**0.917**	1
off		RMC12.2K	9538	14		Bottom	23.00	22.83	0.392	0.378	0.393	
on	UMTS Band IV	RMC12.2K	1413	0	ICT	Bottom	19.00	18.94	1.030	0.988	1.002	
		RMC12.2K	1312	0		Bottom	19.00	18.89	0.922	0.897	0.920	1
		RMC12.2K	1513	0		Bottom	19.00	18.91	1.160	**1.100**	**1.123**	1
		RMC12.2K	1513	0		Bottom	19.00	18.91	1.050	1.010	1.031	2
		RMC12.2K	1513	0	SPEED	Bottom	19.00	18.91	0.955	0.932	0.952	3
off		RMC12.2K	1312	14	ICT	Bottom	22.50	22.34	0.528	0.568	0.589	
on	UMTS Band V	RMC12.2K	4183	0	ICT	Bottom	22.00	21.92	0.967	0.891	0.908	
		RMC12.2K	4132	0		Bottom	22.00	21.88	0.941	0.882	0.907	1
		RMC12.2K	4233	0		Bottom	22.00	21.86	1.000	**0.936**	**0.967**	1
off		RMC12.2K	4233	14		Bottom	23.00	22.38	0.159	0.148	0.171	

Note:
1. Highest reported SAR is > 0.8 W/kg. Added second highest power channel for this test position
2. Repeated measurements are required only when the measured SAR is ≥0.80 W/kg. If the measured SAR values are < 1.45 W/kg with ≤20% variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns.
Original SAR =1.100 W/kg, therefore second times repeat SAR is required.
Repeat SAR =1.010 W/kg < 1.45 W/kg
SAR variation= -8.18% < 20%
3. The result used an other antenna to spot check for worst channel of the original antenna that the SAR result can be meet and compliant.

LTE

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Ant Vendor	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
		QPSK20M	18900	1	0	0		Bottom	17.00	16.87	0.849	0.791	0.815	
		QPSK20M	18700	1	0	0		Bottom	17.00	16.84	0.832	0.776	0.805	1
on		QPSK20M	19100	1	0	0		Bottom	17.00	16.82	0.871	**0.794**	**0.828**	1
	LTE Band 2	QPSK20M	18900	50	0	0	ICT	Bottom	16.00	15.91	0.680	0.626	0.639	1
		QPSK20M	18900	100	0	0		Bottom	16.00	15.91	0.673	0.619	0.632	1
off		QPSK20M	18900	1	49	14		Bottom	23.50	23.30	0.374	0.373	0.391	
		QPSK20M	18900	50	0	14		Bottom	23.00	22.42	0.305	0.301	0.344	
		QPSK20M	20175	1	0	0		Bottom	19.00	18.88	0.908	0.872	0.896	
		QPSK20M	20050	1	0	0		Bottom	19.00	18.82	0.845	0.820	0.855	1
		QPSK20M	20300	1	0	0		Bottom	19.00	18.86	1.060	**0.927**	**0.957**	1
on		QPSK20M	20175	50	0	0		Bottom	18.00	17.92	1.060	0.937	0.954	1
	LTE Band 4	QPSK20M	20050	50	0	0	ICT	Bottom	18.00	17.91	0.946	0.830	0.847	1
		QPSK20M	20300	50	0	0		Bottom	18.00	17.95	1.060	0.943	0.954	1
		QPSK20M	20175	100	0	0		Bottom	18.00	17.92	1.010	0.905	0.922	1
off		QPSK20M	20050	1	0	0		Bottom	23.50	23.47	0.346	0.253	0.255	
		QPSK20M	20050	50	0	0		Bottom	23.00	22.58	0.157	0.177	0.195	
		QPSK10M	20525	1	0	0		Bottom	22.50	22.36	0.838	0.786	0.812	
		QPSK10M	20450	1	0	0		Bottom	22.50	22.25	0.869	**0.814**	**0.862**	1
on		QPSK10M	20600	1	0	0		Bottom	22.50	22.34	0.903	0.674	0.699	1
	LTE Band 5	QPSK10M	20525	25	0	0	ICT	Bottom	21.50	21.45	0.714	0.660	0.668	1
		QPSK10M	20525	50	0	0		Bottom	21.50	21.40	0.735	0.680	0.696	1
off		QPSK10M	20450	1	0	14		Bottom	23.50	23.28	0.153	0.135	0.142	
		QPSK10M	20450	25	0	14		Bottom	23.00	22.58	0.121	0.108	0.119	
		QPSK20M	21100	1	0	0		Bottom	20.00	19.82	0.928	0.861	0.897	
		QPSK20M	20850	1	0	0		Bottom	20.00	19.79	1.070	**0.967**	**1.015**	1
		QPSK20M	21350	1	0	0		Bottom	20.00	19.71	0.885	0.824	0.881	1
on		QPSK20M	21100	50	0	0		Bottom	19.00	18.91	0.924	0.872	0.890	1
	LTE Band 7	QPSK20M	20850	50	0	0	ICT	Bottom	19.00	18.88	1.020	0.962	0.989	1
		QPSK20M	21350	50	0	0		Bottom	19.00	18.80	0.754	0.661	0.692	1
		QPSK20M	21100	100	0	0		Bottom	19.00	18.86	0.793	0.702	0.725	1
off		QPSK20M	21350	1	49	14		Bottom	22.00	22.24	0.399	0.364	0.344	
		QPSK20M	21350	50	0	14		Bottom	21.50	21.48	0.396	0.363	0.365	
		QPSK10M	23095	1	0	0		Bottom	23.00	22.83	0.777	0.807	0.839	
		QPSK10M	23060	1	0	0		Bottom	23.00	22.79	0.767	0.802	0.842	1
on		QPSK10M	23130	1	0	0		Bottom	23.00	22.81	0.793	**0.821**	**0.858**	1
	LTE Band 12	QPSK10M	23095	25	0	0	ICT	Bottom	22.00	21.92	0.632	0.652	0.664	1
		QPSK10M	23095	50	0	0		Bottom	22.00	21.87	0.639	0.662	0.682	1
off		QPSK10M	23060	1	24	0		Bottom	24.00	23.62	0.105	0.109	0.119	
		QPSK10M	23060	25	0	0		Bottom	23.50	22.89	0.084	0.087	0.100	
		QPSK10M	23230	1	0	0		Bottom	23.00	22.83	0.965	**0.942**	**0.980**	
on		QPSK10M	23230	25	0	0		Bottom	22.00	21.84	0.792	0.757	0.785	1
	LTE Band 13	QPSK10M	23230	50	0	0	ICT	Bottom	22.00	21.78	0.791	0.760	0.799	1
off		QPSK10M	23230	1	24	14		Bottom	24.00	23.51	0.239	0.279	0.312	
		QPSK10M	23230	25	0	14		Bottom	23.50	22.75	0.229	0.241	0.286	
		QPSK10M	23330	1	0	0		Bottom	23.00	22.88	0.986	**0.929**	**0.955**	
on		QPSK10M	23330	25	0	0		Bottom	22.00	21.89	0.770	0.739	0.758	1
	LTE Band 14	QPSK10M	23330	50	0	0	ICT	Bottom	22.00	21.83	0.780	0.743	0.773	1
off		QPSK10M	23330	1	0	14		Bottom	24.00	23.51	0.367	0.383	0.429	
		QPSK10M	23330	25	0	14		Bottom	23.50	22.63	0.292	0.299	0.365	
		QPSK10M	23790	1	0	0		Bottom	22.50	22.42	0.790	0.800	0.815	
		QPSK10M	23780	1	0	0		Bottom	22.50	22.36	0.786	0.803	0.829	1
on		QPSK10M	23800	1	0	0		Bottom	22.50	22.37	0.779	**0.807**	**0.832**	1
	LTE Band 17	QPSK10M	23790	25	0	0	ICT	Bottom	21.50	21.49	0.632	0.655	0.657	1
		QPSK10M	23790	50	0	0		Bottom	21.50	21.46	0.634	0.658	0.664	1
off		QPSK10M	23780	1	24	14		Bottom	23.50	23.44	0.250	0.272	0.276	
		QPSK10M	23780	25	0	14		Bottom	23.00	22.67	0.214	0.227	0.245	
		QPSK20M	26365	1	0	0		Bottom	17.00	16.82	0.775	0.750	0.782	
on		QPSK20M	26140	1	0	0		Bottom	17.00	16.74	0.756	0.733	0.778	
	LTE Band 25	QPSK20M	26590	1	0	0	ICT	Bottom	17.00	16.75	0.781	**0.747**	**0.791**	
		QPSK20M	26365	50	0	0		Bottom	16.00	15.91	0.785	0.756	0.772	
off		QPSK20M	26140	1	0	14		Bottom	24.00	23.45	0.366	0.364	0.413	
		QPSK20M	26140	50	0	14		Bottom	23.50	22.71	0.297	0.294	0.353	
		QPSK15M	26915	1	0	0		Bottom	23.00	22.83	0.767	0.766	0.797	
on		QPSK15M	26865	1	0	0		Bottom	23.00	22.76	0.755	**0.768**	**0.812**	
	LTE Band 26	QPSK15M	26965	1	0	0	ICT	Bottom	23.00	22.79	0.788	0.766	0.804	
		QPSK15M	26915	36	0	0		Bottom	22.00	21.92	0.620	0.627	0.639	
off		QPSK15M	26865	1	0	0		Bottom	24.00	23.88	0.312	0.365	0.375	
		QPSK15M	26865	36	0	14		Bottom	23.50	22.95	0.278	0.317	0.360	
		QPSK10M	27710	1	0	0		Bottom	19.00	18.88	1.180	**1.080**	**1.110**	
on		QPSK10M	27710	25	0	0		Bottom	18.00	17.83	0.955	0.860	0.894	1
	LTE Band 30	QPSK10M	27710	50	0	0		Bottom	18.00	17.86	0.947	0.855	0.883	1
off		QPSK10M	27710	1	24	14		Bottom	21.00	20.05	0.602	0.543	0.676	
		QPSK10M	27710	25	0	14		Bottom	20.50	19.15	0.606	0.542	0.740	

P-sensor	Band	Mode	channel	RB	Offset	distance (mm)	Ant Vendor	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	LTE Band 38	QPSK20M	38000	1	0	0	ICT	Bottom	21.50	21.38	0.829	0.788	0.810	
		QPSK20M	37850	1	0	0		Bottom	21.50	21.34	0.822	0.783	0.812	1
		QPSK20M	38150	1	0	0		Bottom	21.50	21.32	0.855	**0.813**	**0.847**	1
		QPSK20M	38000	50	0	0		Bottom	20.50	20.47	0.677	0.633	0.637	1
		QPSK20M	38000	100	0	0		Bottom	20.50	20.30	0.694	0.651	0.682	1
off		QPSK20M	38000	1	0	14		Bottom	22.50	21.63	0.109	0.100	0.122	
		QPSK20M	38000	50	0	14		Bottom	22.00	20.83	0.109	0.101	0.132	
		QPSK20M	38000	1	0	14		Bottom	23.00	22.08	0.224	0.199	0.246	
		QPSK20M	38000	50	0	14		Bottom	22.50	21.25	0.181	0.159	0.212	
on	LTE Bnad 41	QPSK20M	40620	1	0	0	ICT	Bottom	23.50	23.40	0.829	**0.794**	**0.812**	
		QPSK20M	39750	1	0	0		Bottom	23.50	23.39	0.779	0.790	0.810	1
		QPSK20M	41490	1	0	0		Bottom	23.50	23.37	0.790	0.714	0.736	1
		QPSK20M	40620	50	0	0		Bottom	22.50	22.49	0.716	0.666	0.668	1
off		QPSK20M	40620	1	0	14		Bottom	24.50	23.49	0.344	0.348	0.439	
		QPSK20M	40620	50	0	14		Bottom	23.50	22.75	0.240	0.270	0.321	
		QPSK20M	40620	1	0	14		Bottom	25.00	23.93	0.354	0.381	0.487	
		QPSK20M	40620	50	0	14		Bottom	24.00	23.13	0.366	0.376	0.459	
on	LTE Bnad 42	QPSK20M	42590	1	0	0	ICT	Bottom	20.00	19.82	0.344	0.364	0.379	
		QPSK20M	42190	1	0	0		Bottom	20.00	19.76	0.436	**0.398**	**0.421**	
		QPSK20M	42990	1	0	0		Bottom	20.00	19.75	0.334	0.297	0.315	
		QPSK20M	42590	50	0	0		Bottom	19.00	18.91	0.267	0.242	0.247	
off		QPSK20M	42990	1	99	14		Bottom	21.00	20.94	0.068	0.057	0.058	
		QPSK20M	42990	50	0	14		Bottom	20.50	19.88	0.067	0.056	0.065	
		QPSK20M	42990	1	0	14		Bottom	21.50	21.46	0.084	0.069	0.070	
		QPSK20M	42990	50	0	14		Bottom	20.50	20.37	0.066	0.054	0.056	
on	LTE Band 43	QPSK20M	45090	1	0	0	ICT	Bottom	20.00	19.84	0.330	0.306	0.317	
		QPSK20M	44690	1	0	0		Bottom	20.00	19.76	0.334	0.304	0.321	
		QPSK20M	45490	1	0	0		Bottom	20.00	19.80	0.326	**0.345**	**0.361**	
		QPSK20M	45090	50	0	0		Bottom	19.00	18.93	0.211	0.194	0.197	
off		QPSK20M	44690	1	49	14		Bottom	21.00	20.61	0.087	0.076	0.083	
		QPSK20M	44690	50	0	14		Bottom	20.00	19.33	0.065	0.060	0.070	
		QPSK20M	44690	1	49	14		Bottom	21.50	21.03	0.086	0.082	0.091	
		QPSK20M	44690	50	0	14		Bottom	20.50	19.83	0.081	0.076	0.089	
on	LTE Band 48	QPSK20M	55990	1	0	0	ICT	Bottom	20.50	20.38	0.272	0.242	0.249	
		QPSK20M	55340	1	0	0		Bottom	20.50	20.10	0.294	**0.301**	**0.330**	
		QPSK20M	56640	1	0	0		Bottom	20.50	20.25	0.217	0.210	0.222	
		QPSK20M	55990	50	0	0		Bottom	19.50	19.47	0.225	0.222	0.224	
off		QPSK20M	55340	1	99	14		Bottom	21.50	21.13	0.153	0.301	0.328	
		QPSK20M	55340	50	0	14		Bottom	21.00	20.52	0.241	0.118	0.132	
on	LTE Band 66	QPSK20M	132322	1	0	0	ICT	Bottom	19.00	18.89	1.030	0.963	0.988	
		QPSK20M	132072	1	0	0		Bottom	19.00	18.83	0.880	0.826	0.859	1
		QPSK20M	132572	1	0	0		Bottom	19.00	18.85	1.140	1.070	1.108	1
		QPSK20M	132322	50	0	0		Bottom	18.00	17.92	1.040	0.977	0.995	1
		QPSK20M	132072	50	0	0		Bottom	18.00	17.92	0.904	0.845	0.861	1
		QPSK20M	132572	50	0	0		Bottom	18.00	17.94	1.170	**1.100**	**1.115**	1
		QPSK20M	132572	50	0	0		Bottom	18.00	17.94	1.070	1.000	1.014	2
		QPSK20M	132572	50	0	0	SPEED	Bottom	18.00	17.94	0.944	0.887	0.899	3
		QPSK20M	132322	100	0	0	ICT	Bottom	18.00	17.85	1.090	0.994	1.029	1
off		QPSK20M	132572	1	99	14		Bottom	24.00	23.85	0.548	0.509	0.527	
		QPSK20M	132572	50	0	14		Bottom	23.50	23.06	0.548	0.509	0.563	
on	LTE Band 71	QPSK20M	133222	1	0	0	ICT	Bottom	23.00	22.92	0.673	0.682	0.695	
		QPSK20M	133297	1	0	0		Bottom	23.00	22.87	0.696	0.708	0.730	
		QPSK20M	133372	1	0	0		Bottom	23.00	22.89	0.706	**0.720**	**0.738**	
		QPSK20M	133297	50	0	0		Bottom	22.00	21.96	0.586	0.601	0.607	
off		QPSK20M	133297	1	0	14		Bottom	24.00	23.96	0.161	0.183	0.185	
		QPSK20M	133297	50	0	14		Bottom	23.50	23.10	0.120	0.141	0.155	

Note:
1. Highest reported SAR is > 0.8 W/kg. Added second highest power channel for this test position
2. Repeated measurements are required only when the measured SAR is ≥0.80 W/kg. If the measured SAR values are < 1.45 W/kg with ≤20% variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns.
Original SAR =1.100 W/kg, therefore second times repeat SAR is required.
Repeat SAR =1.000 W/kg < 1.45 W/kg
SAR variation= -9.09% < 20%
3. The result used an other antenna to spot check for worst channel of the original antenna that the SAR result can be meet and compliant.

NR FR1

P-sensor	Band	Mode	Bw	scs	Ant	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	NR Band n2	QPSK	20	15	Main	37600	1	1	0	Bottom	17.00	16.82	0.804	**0.859**	**0.895**	
		QPSK	20	15		37200	1	1	0	Bottom	17.00	16.78	0.735	0.812	0.854	1
		QPSK	20	15		38000	1	1	0	Bottom	17.00	16.77	0.711	0.791	0.834	1
		QPSK	20	15		37600	50	0	0	Bottom	16.50	16.48	0.584	0.634	0.637	1
		QPSK	20	15		37600	100	0	0	Bottom	16.50	16.46	0.568	0.622	0.628	1
off		QPSK	20	15		37600	1	1	14	Bottom	23.00	22.99	0.467	0.519	0.520	
		QPSK	20	15		37600	50	0	14	Bottom	23.00	22.78	0.363	0.400	0.421	
on	NR Band n5	QPSK	20	15	Main	167300	1	0	0	Bottom	22.00	21.89	0.790	**0.784**	**0.804**	
		QPSK	20	15		166800	1	0	0	Bottom	22.00	21.88	0.752	0.738	0.759	1
		QPSK	20	15		167800	1	0	0	Bottom	22.00	21.86	0.767	0.767	0.792	1
		QPSK	20	15		167300	50	0	0	Bottom	21.50	21.47	0.728	0.728	0.733	1
		QPSK	20	15		167300	100	0	0	Bottom	21.50	21.47	0.756	0.752	0.757	1
off		QPSK	20	15		166800	1	0	14	Bottom	23.00	22.85	0.162	0.183	0.189	
		QPSK	20	15		166800	50	0	14	Bottom	23.00	22.72	0.157	0.172	0.183	
on	NR Band n7	QPSK	40	15	Main	507000	1	0	0	Bottom	19.00	18.88	0.839	0.826	0.849	
		QPSK	40	15		504000	1	0	0	Bottom	19.00	18.78	0.884	**0.856**	**0.900**	1
		QPSK	40	15		510000	1	0	0	Bottom	19.00	18.85	0.774	0.792	0.820	1
		QPSK	40	15		507000	108	0	0	Bottom	18.50	18.48	0.797	0.817	0.821	1
		QPSK	40	15		504000	108	0	0	Bottom	18.50	18.45	0.900	0.845	0.855	1
		QPSK	40	15		510000	108	0	0	Bottom	18.50	18.41	0.931	0.782	0.798	1
		QPSK	40	15		507000	216	0	0	Bottom	18.50	18.46	0.882	0.767	0.774	1
off		QPSK	40	15		510000	1	214	14	Bottom	23.50	23.34	0.294	0.460	0.477	
		QPSK	40	15		510000	108	0	14	Bottom	23.50	23.14	0.368	0.496	0.539	
on	NR Band n12	QPSK	15	15	Main	141500	1	1	0	Bottom	22.00	21.89	0.701	0.711	0.729	
		QPSK	15	15		141300	1	1	0	Bottom	22.00	21.79	0.664	0.700	0.735	
		QPSK	15	15		141700	1	1	0	Bottom	22.00	21.78	0.676	**0.711**	**0.748**	
		QPSK	15	15		141500	36	0	0	Bottom	21.50	21.46	0.664	0.694	0.700	
off		QPSK	15	15		141700	1	1	14	Bottom	23.00	22.85	0.213	0.250	0.259	
		QPSK	15	15		141700	36	0	14	Bottom	23.00	22.62	0.155	0.189	0.206	
on	NR Band n13	QPSK	10	15	Main	156400	1	1	0	Bottom	22.50	22.46	0.802	**0.775**	**0.782**	
		QPSK	10	15		156400	25	0	0	Bottom	22.00	21.90	0.789	0.748	0.765	
off		QPSK	10	15		156400	1	1	14	Bottom	23.50	23.26	0.347	0.355	0.375	
		QPSK	10	15		156400	25	0	14	Bottom	23.00	22.71	0.263	0.275	0.294	
on	NR Band n14	BPSK	10	15	Main	158600	1	1	0	Bottom	23.00	22.93	1.180	**1.110**	**1.128**	
		BPSK	10	15		158600	25	0	0	Bottom	22.50	22.45	0.889	0.865	0.875	1
		BPSK	10	15		158600	50	0	0	Bottom	22.50	22.39	0.810	0.852	0.874	1
off		BPSK	10	15		158600	1	1	14	Bottom	24.00	23.50	0.282	0.350	0.393	
		BPSK	10	15		158600	25	0	14	Bottom	24.00	23.16	0.181	0.245	0.297	
on	NR Band n25	QPSK	40	15	Main	376500	1	1	0	Bottom	17.00	16.89	0.711	**0.823**	**0.844**	
		QPSK	40	15		374000	1	1	0	Bottom	17.00	16.83	0.705	0.811	0.843	1
		QPSK	40	15		379000	1	1	0	Bottom	17.00	16.79	0.681	0.794	0.833	1
		QPSK	40	15		376500	108	0	0	Bottom	16.50	16.46	0.560	0.652	0.658	1
		QPSK	40	15		376500	216	0	0	Bottom	16.50	16.39	0.673	0.785	0.805	1
off		QPSK	40	15		379000	1	1	14	Bottom	24.00	23.87	0.434	0.510	0.525	
		QPSK	40	15		379000	108	0	14	Bottom	23.00	22.98	0.353	0.413	0.415	
on	NR Band n26	QPSK	20	15	Main	167300	1	1	0	Bottom	23.00	22.86	0.823	0.807	0.833	
		QPSK	20	15		166800	1	1	0	Bottom	23.00	22.78	1.000	**0.828**	**0.871**	1
		QPSK	20	15		167800	1	1	0	Bottom	23.00	22.83	0.855	0.774	0.805	1
		QPSK	20	15		167300	50	0	0	Bottom	22.50	22.48	0.716	0.770	0.774	1
		QPSK	20	15		166800	50	0	0	Bottom	22.50	22.43	0.958	0.857	0.871	1
		QPSK	20	15		167800	50	0	0	Bottom	22.50	22.41	0.954	0.862	0.880	1
		QPSK	20	15		167300	100	0	0	Bottom	22.50	22.44	0.719	0.765	0.776	1
off		QPSK	20	15		166800	1	104	14	Bottom	24.00	23.71	0.262	0.282	0.301	
		QPSK	20	15		166800	50	0	14	Bottom	23.00	22.96	0.236	0.244	0.246	
on	NR Band n30	QPSK	10	15	Main	462000	1	0	0	Bottom	19.00	18.53	1.160	**1.040**	**1.159**	
		QPSK	10	15		462000	25	0	0	Bottom	18.50	18.47	0.925	0.837	0.843	1
		QPSK	10	15		462000	50	0	0	Bottom	18.50	18.41	0.922	0.831	0.848	1
		QPSK	10	15		462000	1	0	0	Bottom	19.00	18.53	0.994	0.980	1.092	2
		QPSK	10	15		462000	1	0	0	Bottom	19.00	18.53	0.942	0.928	1.034	3(Speed)
off		QPSK	10	15		462000	1	0	14	Bottom	22.00	21.58	0.298	0.302	0.333	
		QPSK	10	15		462000	25	0	14	Bottom	21.00	20.96	0.240	0.238	0.240	

P-sensor	Band	Mode	Bw	scs	Ant	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	NR Band n38	BPSK	20	30	Main	519000	1	1	0	Bottom	23.50	22.86	0.476	**0.497**	**0.576**	
		BPSK	20	30		516000	1	1	0	Bottom	23.50	22.78	0.469	0.440	0.519	
		BPSK	20	30		522000	1	1	0	Bottom	23.50	22.78	0.489	0.461	0.544	
		BPSK	20	30		519000	50	0	0	Bottom	22.50	22.42	0.483	0.454	0.462	
off		BPSK	20	30		516000	1	49	14	Bottom	24.50	23.59	0.063	0.060	0.074	
		BPSK	20	30		516000	50	0	14	Bottom	23.50	23.24	0.064	0.060	0.064	
		BPSK	20	30		516000	1	49	14	Bottom	25.00	24.01	0.089	0.085	0.106	
		BPSK	20	30		516000	50	0	14	Bottom	24.00	23.72	0.073	0.067	0.071	
on	NR Band n38	BPSK	20	30	MIMO 2	519000	1	1	0	Bottom	23.50	22.93	0.352	0.292	0.333	
		BPSK	20	30		516000	1	1	0	Bottom	23.50	22.76	0.482	**0.429**	**0.509**	
		BPSK	20	30		522000	1	1	0	Bottom	23.50	22.88	0.356	0.296	0.341	
		BPSK	20	30		519000	50	0	0	Bottom	22.50	22.49	0.238	0.199	0.199	
off		BPSK	20	30		516000	1	49	14	Bottom	24.50	23.59	0.021	0.021	0.026	
		BPSK	20	30		516000	50	0	14	Bottom	23.50	23.28	0.024	0.021	0.022	
		BPSK	20	30		516000	1	49	14	Bottom	25.00	24.01	0.030	0.026	0.032	
		BPSK	20	30		516000	50	0	14	Bottom	24.00	23.66	0.025	0.030	0.032	
on	NR Band n41	QPSK	100	30	Main	518598	1	0	0	Bottom	25.50	25.44	0.831	**0.783**	**0.794**	
		QPSK	100	30		509202	1	0	0	Bottom	25.50	25.38	0.761	0.709	0.729	
		QPSK	100	30		528000	1	0	0	Bottom	25.50	25.39	0.818	0.769	0.789	
		QPSK	100	30		518598	135	0	0	Bottom	25.00	24.98	0.426	0.397	0.399	
off		QPSK	100	30		509202	1	271	14	Bottom	26.50	26.07	0.035	0.038	0.041	
		QPSK	100	30		509202	135	0	14	Bottom	24.00	23.09	0.038	0.038	0.046	
		QPSK	100	30		509202	1	271	14	Bottom	27.00	26.50	0.057	0.056	0.063	
		QPSK	100	30		509202	135	0	14	Bottom	24.50	23.38	0.058	0.056	0.072	
on	NR Band n41	QPSK	100	30	MIMO 2	518598	1	1	0	Bottom	25.00	24.83	0.236	0.197	0.205	
		QPSK	100	30		509202	1	1	0	Bottom	25.00	24.78	0.469	**0.416**	**0.438**	
		QPSK	100	30		528000	1	1	0	Bottom	25.00	24.79	0.363	0.302	0.317	
		QPSK	100	30		518598	135	0	0	Bottom	24.50	24.47	0.236	0.197	0.198	
off		QPSK	100	30		509202	1	271	14	Bottom	26.00	25.70	0.020	0.020	0.022	
		QPSK	100	30		509202	135	0	14	Bottom	24.50	22.61	0.023	0.020	0.031	
		QPSK	100	30		509202	1	271	14	Bottom	26.50	26.09	0.029	0.025	0.027	
		QPSK	100	30		509202	135	0	14	Bottom	24.50	22.89	0.024	0.022	0.032	
on	NR Band n48	QPSK	40	30	Main	641666	1	1	0	Bottom	20.50	20.45	0.576	0.696	0.704	
		QPSK	40	30		638000	1	1	0	Bottom	20.50	20.41	0.578	**0.728**	**0.743**	
		QPSK	40	30		645332	1	1	0	Bottom	20.50	20.42	0.579	0.716	0.729	
		QPSK	40	30		641666	108	0	0	Bottom	20.00	19.89	0.563	0.691	0.709	
off		BPSK	40	30		641666	1	104	14	Bottom	21.50	21.32	0.391	0.425	0.443	
		BPSK	40	30		641666	108	0	14	Bottom	21.00	20.89	0.343	0.438	0.449	
on	NR Band n48	QPSK	40	30	MIMO 2	641666	1	1	0	Bottom	20.50	20.39	0.110	0.118	0.121	
		QPSK	40	30		638000	1	1	0	Bottom	20.50	20.34	0.106	0.117	0.121	
		QPSK	40	30		645332	1	1	0	Bottom	20.50	20.36	0.104	**0.121**	**0.125**	
		QPSK	40	30		641666	108	0	0	Bottom	20.00	19.78	0.092	0.097	0.102	
off		BPSK	40	30		641666	1	104	14	Bottom	21.50	21.15	0.020	0.031	0.033	
		BPSK	40	30		641666	108	0	14	Bottom	21.00	20.78	0.020	0.030	0.031	
on	NR Band n66	QPSK	40	30	Main	349000	1	1	0	Bottom	19.00	18.96	0.834	0.906	0.914	
		QPSK	40	30		346000	1	1	0	Bottom	19.00	18.85	0.792	0.851	0.881	1
		QPSK	40	30		352000	1	1	0	Bottom	19.00	18.88	0.873	0.962	0.989	1
		QPSK	40	30		349000	108	0	0	Bottom	18.50	18.49	0.853	0.928	0.930	1
		QPSK	40	30		346000	108	0	0	Bottom	18.50	18.41	0.792	0.876	0.894	1
		QPSK	40	30		352000	108	0	0	Bottom	18.50	18.39	0.898	**0.996**	**1.022**	1
		QPSK	40	30		349000	216	0	0	Bottom	18.50	18.48	0.869	0.968	0.972	1
off		QPSK	40	30		352000	1	214	14	Bottom	24.00	23.82	0.345	0.403	0.420	
		QPSK	40	30		352000	108	0	14	Bottom	23.50	23.21	0.186	0.220	0.235	
on	NR Band n70	QPSK	15	15	MIMO 2	340500	1	1	0	Bottom	22.00	21.75	1.130	**1.070**	**1.133**	
		QPSK	15	15		340500	36	0	0	Bottom	21.50	21.39	1.050	1.030	1.056	1
		QPSK	15	15		340500	75	0	0	Bottom	21.50	21.36	1.120	1.060	1.095	1
off		BPSK	15	15		340500	1	77	14	Bottom	23.00	22.53	0.262	0.268	0.299	
		BPSK	15	15		340500	36	0	14	Bottom	22.50	22.47	0.213	0.215	0.216	
on	NR Band n71	QPSK	20	15	Main	136100	1	1	0	Bottom	23.00	22.89	0.782	0.834	0.855	
		QPSK	20	15		134600	1	1	0	Bottom	23.00	22.82	0.774	0.828	0.863	1
		QPSK	20	15		137600	1	1	0	Bottom	23.00	22.83	0.785	**0.837**	**0.870**	1
		QPSK	20	15		136100	50	0	0	Bottom	22.50	22.48	0.615	0.713	0.716	1
		QPSK	20	15		136100	100	0	0	Bottom	22.50	22.44	0.581	0.666	0.675	1
off		QPSK	20	15		137600	1	1	14	Bottom	24.00	23.91	0.147	0.165	0.168	
		QPSK	20	15		137600	50	0	14	Bottom	23.50	23.38	0.150	0.168	0.173	

P-sensor	Band	Mode	Bw	scs	Ant	channel	RB	Offset	distance (mm)	Test Position	Max Tune-up (dBm)	AVG Power (dBm)	Area Scan	SAR 1g	Reported SAR 1g	Note
on	NR Band n77	QPSK	100	30	Main	650000	1	1	0	Bottom	24.00	23.89	0.602	0.739	0.758	
		QPSK	100	30	Main	633334	1	1	0	Bottom	24.00	23.78	0.544	0.649	0.683	
		QPSK	100	30	Main	662000	1	1	0	Bottom	24.00	23.88	0.598	**0.777**	**0.799**	
		QPSK	100	30	Main	650000	135	0	0	Bottom	23.50	23.48	0.589	0.734	0.737	
off		QPSK	100	30	Main	633334	1	1	14	Bottom	25.50	25.22	0.209	0.266	0.284	
		QPSK	100	30	Main	633334	135	0	14	Bottom	25.00	24.48	0.212	0.265	0.299	
		QPSK	100	30	Main	633334	1	1	14	Bottom	26.00	25.72	0.378	0.405	0.432	
		QPSK	100	30	Main	633334	135	0	14	Bottom	25.00	24.88	0.332	0.417	0.429	
on	NR Band n77	QPSK	100	30	MIMO 2	650000	1	1	0	Bottom	23.50	23.48	0.334	0.326	0.328	
		QPSK	100	30	MIMO 2	633334	1	1	0	Bottom	23.50	23.36	0.635	**0.641**	**0.662**	
		QPSK	100	30	MIMO 2	662000	1	1	0	Bottom	23.50	23.44	0.504	0.506	0.513	
		QPSK	100	30	MIMO 2	650000	1	1	0	Bottom	23.00	22.89	0.494	0.479	0.491	
off		QPSK	100	30	MIMO 2	633334	1	1	14	Bottom	25.00	24.79	0.035	0.031	0.033	
		QPSK	100	30	MIMO 2	633334	135	0	14	Bottom	24.50	24.47	0.031	0.030	0.031	
		QPSK	100	30	MIMO 2	633334	1	1	14	Bottom	25.50	25.34	0.040	0.038	0.040	
		QPSK	100	30	MIMO 2	633334	135	0	14	Bottom	25.00	24.89	0.032	0.034	0.035	

Note:
1. Highest reported SAR is > 0.8 W/kg. Added second highest power channel for this test position
2. Repeated measurements are required only when the measured SAR is ≥0.80 W/kg. If the measured SAR values are < 1.45 W/kg with ≤20% variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns.
Original SAR =1.040 W/kg, therefore second times repeat SAR is required.
Repeat SAR =0.980 W/kg < 1.45 W/kg
SAR variation= -5.77% < 20%
3. The result used an other antenna to spot check for worst channel of the original antenna that the SAR result can be meet and compliant.

11. SIMULTANEOUS TRANSMISSION CONDITIONS

11.1. Stand-alone SAR test exclusion

SAR compliance for simultaneous transmission must be considered when the maximum duration of overlapping transmissions, including network hand-offs, is greater than 30 seconds. This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis.

The Simultaneous Transmission Possibilities of this device are as below:

No.	Configuration	Body
1	WWAN + WiFi2.4G	Yes
2	WWAN + BT	Yes
3	WWAN + WiFi5G	Yes
4	WWAN + WiFi6G	Yes
5	WiFi2.4G(Main) +BT	Yes
6	WiFi5G(Main) + BT	Yes
7	WiFi6G(Main) + BT	Yes
8	WiFi2.4G(Main) + WiFi2.4G(Aux)	Yes
9	WiFi5G(Main) + WiFi5G(Aux)	Yes
10	WiFi6G(Main) + WiFi 6G(Aux)	Yes

The provisions in § 1.1307(b)(3)(ii)(B) address the case of multiple source exemptions (in general for both SAR and MPE Environmental Assessment requirements) that may be considered in fixed, mobile, or portable device exposure conditions.

In a similar fashion, a device with multiple RF sources can be exempted from the requirements of RF exposure testing for the purpose of equipment authorization if the following condition is met:

$$TER = \sum_{i=0}^{N_{exe}} \frac{P_i}{P_{th,i}} + \sum_{i=0}^{N_S} \frac{SAR_i}{SAR_{lim,i}} + \sum_{j=0}^{N_f} \left(\frac{MPE_j}{MPE_{lim,j}}\right)^2 + \sum_{k=0}^{N_{PD}} \frac{MPE_{ik}}{MPE_{lim,k}} \leq 1 \qquad (2.1),$$

MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to λ/2π, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.10 For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

§ 1.1307(b)(3)(i)(C):
Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1920\ R^2$.
1.34-30	$3450\ R^2/f^2$.
30-300	$3.83\ R^2$.
300-1500	$0.0128\ R^2 f$.
1500-100000	$19.2R^2$.

MPE RESULTS

AX211D2W

Mode	Maximum Output Power	Directional Gain	ERP	ERP	Distance	Threshold ERP Limit	Ratio	Result
	(dBm)	(dBi)	(dBm)	(mW)	(cm)	(mW)		
BT	10.50	1.26	9.61	9.14	24.50	1152.48	0.0079	Pass
WLAN 2.4 GHz	21.00	1.26	20.11	102.57	24.50	1152.48	0.0890	Pass
WLAN 5 GHz	21.00	3.05	21.90	154.88	24.50	1152.48	0.1344	Pass
WLAN 6 GHz	13.50	2.11	13.46	22.18	24.50	1152.48	0.0192	Pass

BE200D2W

Mode	Maximum Output Power	Directional Gain	ERP	ERP	Distance	Threshold ERP Limit	Ratio	Result
	(dBm)	(dBi)	(dBm)	(mW)	(cm)	(mW)		
BT	15.50	1.26	14.61	28.91	24.50	1152.48	0.0251	Pass
WLAN 2.4 GHz	23.00	1.26	22.11	162.55	24.50	1152.48	0.1410	Pass
WLAN 5 GHz	24.00	3.05	24.90	309.03	24.50	1152.48	0.2681	Pass
WLAN 6 GHz	22.75	2.11	22.71	186.64	24.50	1152.48	0.1619	Pass

SIMULTANEOUS TX ANTENNA COMBINATION RESULT

Position	Simultaneous Tx Antenna Combination		$TER_{SAR-MPE}$	Limit (≤1)
	WWAN Max	WLAN Max		
Bottom	0.72	0.27	0.99	1

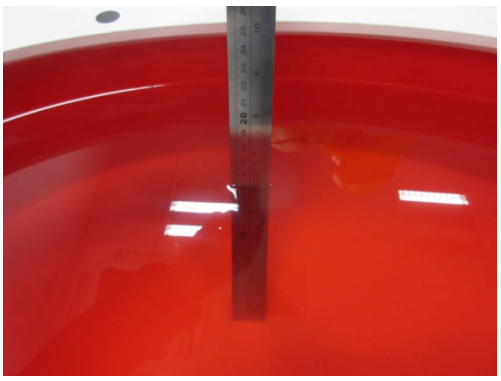
11. Test Layout

Specific Absorption Rate Test Layout

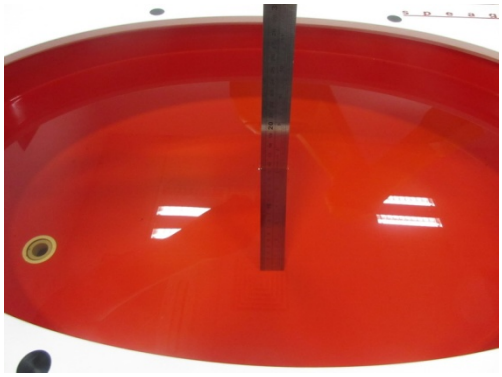
Liquid depth in the flat Phantom (≥15cm depth)

HSL(750MHz)

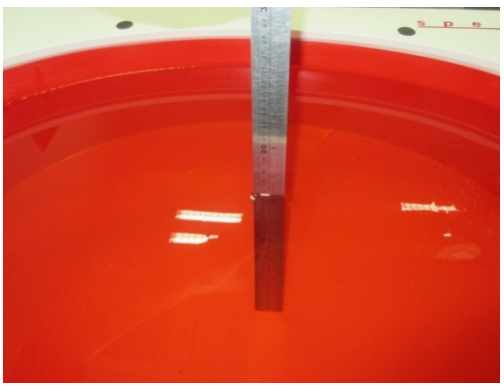
HSL(900MHz)



HSL(1750-2600MHz)



HSL(3500MHz)



Appendix A. SAR Plots of System Verification

(Pls See BTL-FCC SAR-2-2311T076_Appendix A.)

Appendix B. SAR Plots of SAR Measurement

(Pls See BTL-FCC SAR-2-2311T076_Appendix B.)

Appendix C. Calibration Certificate

(Pls See BTL-FCC SAR-2-2311T076_Appendix C.)

Appendix D. Photographs of the Test Set-Up

(Pls See BTL-FCC SAR-2-2311T076_Appendix D.)

End of Test Report