

10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **ES3-3293_Sep20**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3293**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes**

Calibration date: **September 23, 2020**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Michael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 29, 2020

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- **NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- **NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- **DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- **PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- **A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- **ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- **Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- **Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- **Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.10	0.90	0.73	± 10.1 %
DCP (mV) ^B	102.3	109.5	106.9	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	199.2	± 3.5 %	± 4.7 %
		Y	0.0	0.0	1.0		179.4		
		Z	0.0	0.0	1.0		183.6		

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-5.0
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an *Area Scan* job.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3293

Calibration Parameter Determined in Head Tissue Simulating Media

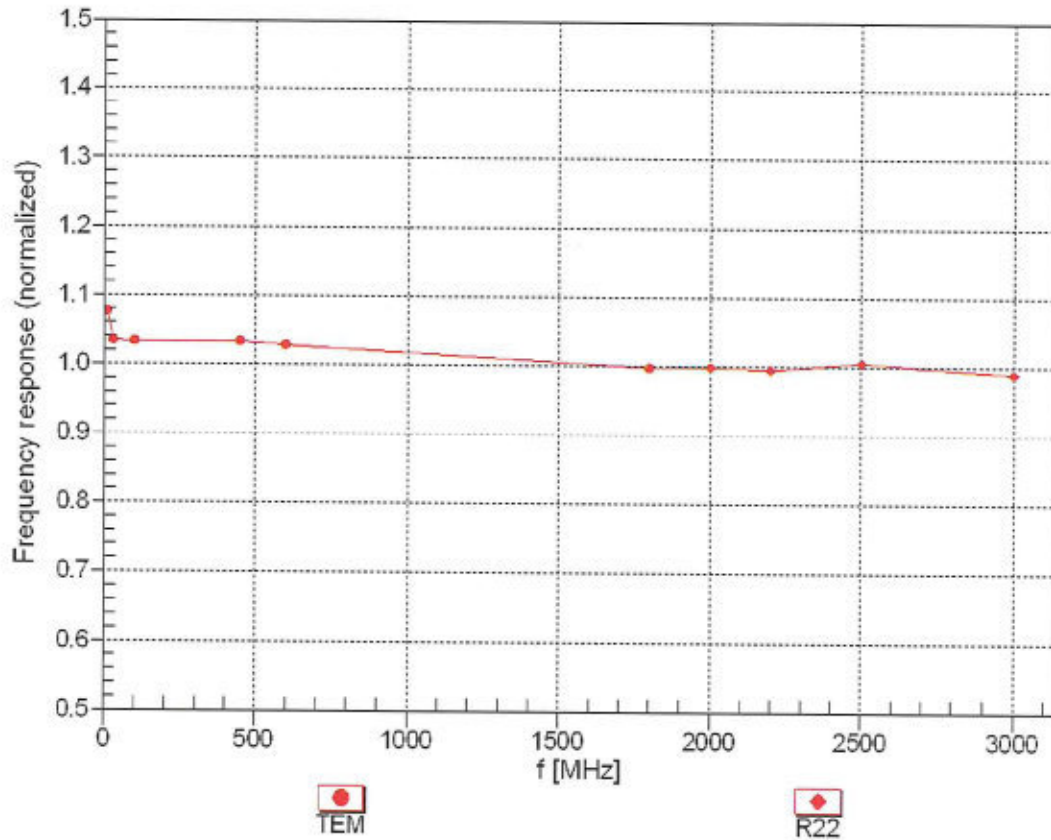
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	6.51	6.51	6.51	0.80	1.18	± 12.0 %
835	41.5	0.90	6.43	6.43	6.43	0.78	1.16	± 12.0 %
900	41.5	0.97	6.24	6.24	6.24	0.80	1.18	± 12.0 %
1750	40.1	1.37	5.37	5.37	5.37	0.63	1.28	± 12.0 %
1900	40.0	1.40	5.14	5.14	5.14	0.50	1.44	± 12.0 %
2000	40.0	1.40	5.11	5.11	5.11	0.72	1.25	± 12.0 %
2300	39.5	1.67	4.81	4.81	4.81	0.65	1.34	± 12.0 %
2450	39.2	1.80	4.51	4.51	4.51	0.57	1.50	± 12.0 %
2600	39.0	1.96	4.38	4.38	4.38	0.80	1.23	± 12.0 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

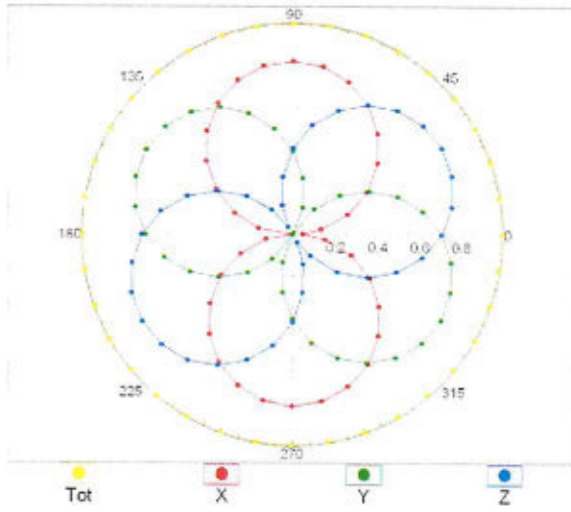
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



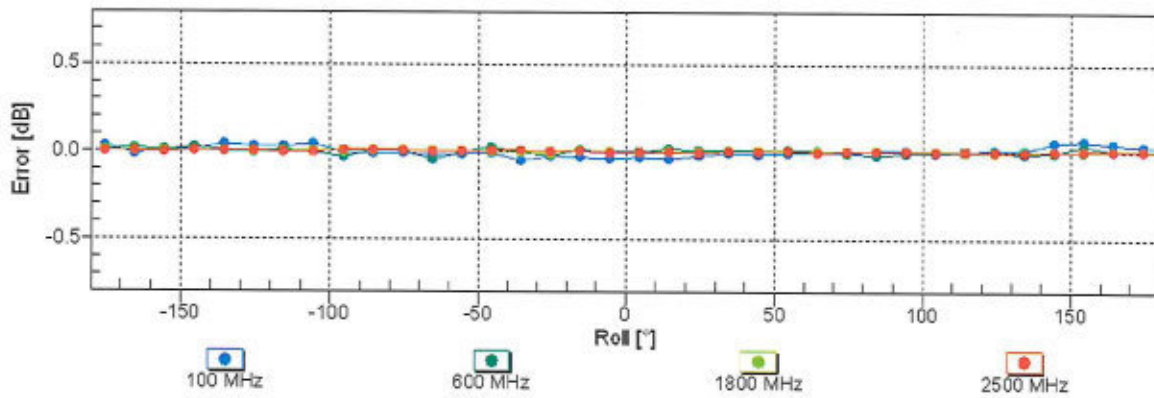
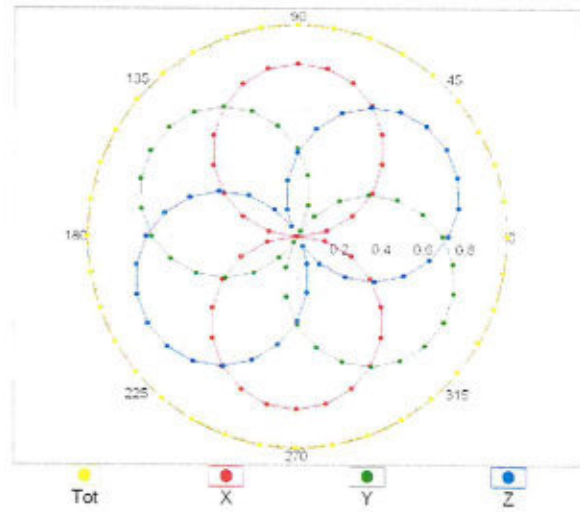
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

Receiving Pattern (ϕ), $\vartheta = 0^\circ$

f=600 MHz,TEM

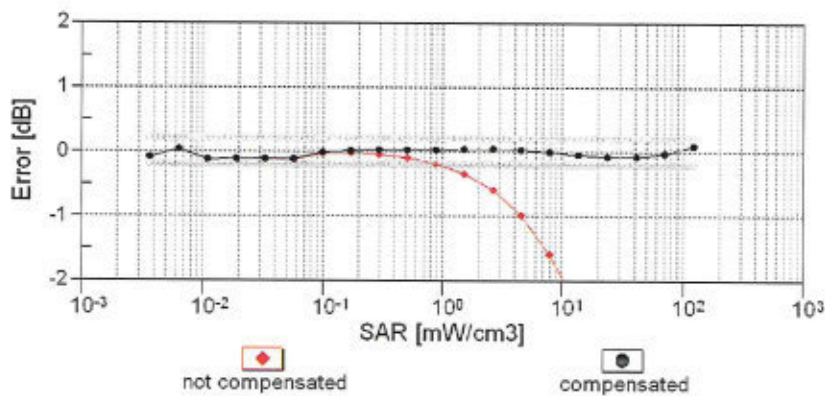
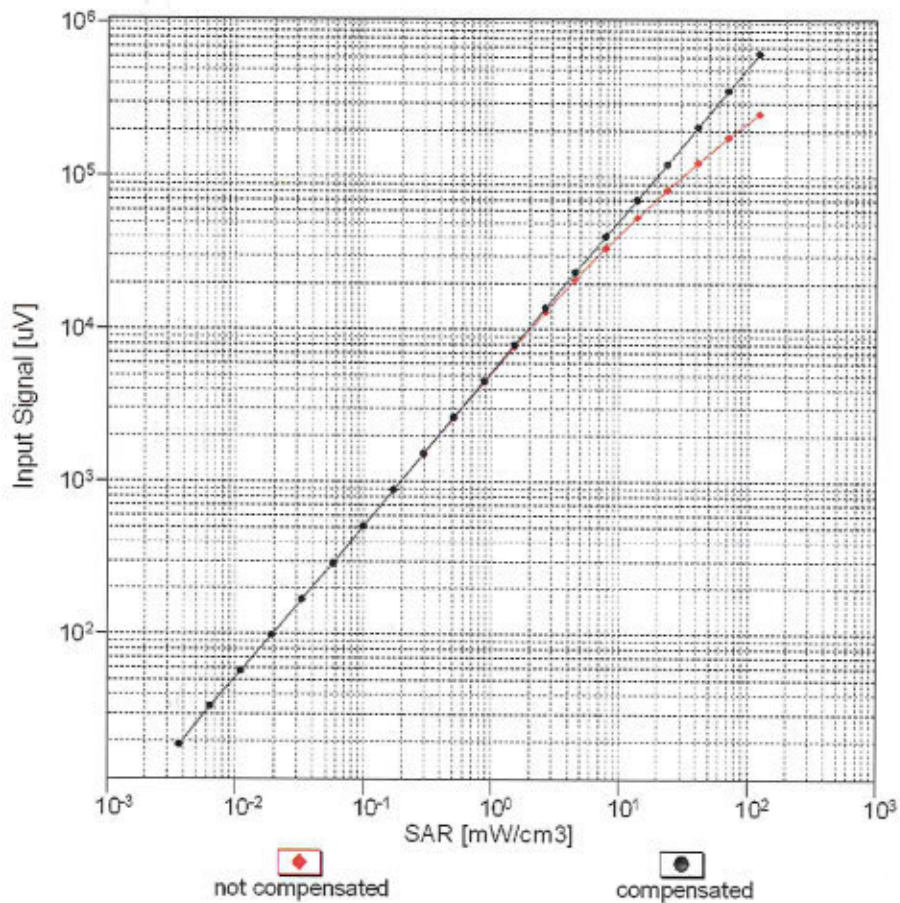


f=1800 MHz,R22



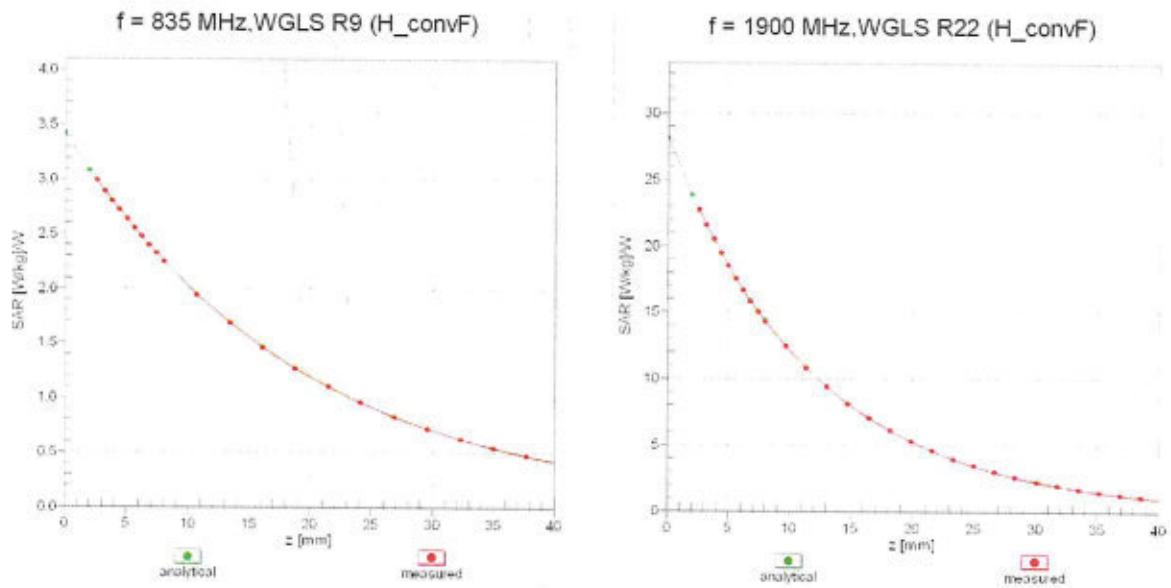
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range $f(SAR_{head})$ (TEM cell , $f_{eval}= 1900$ MHz)

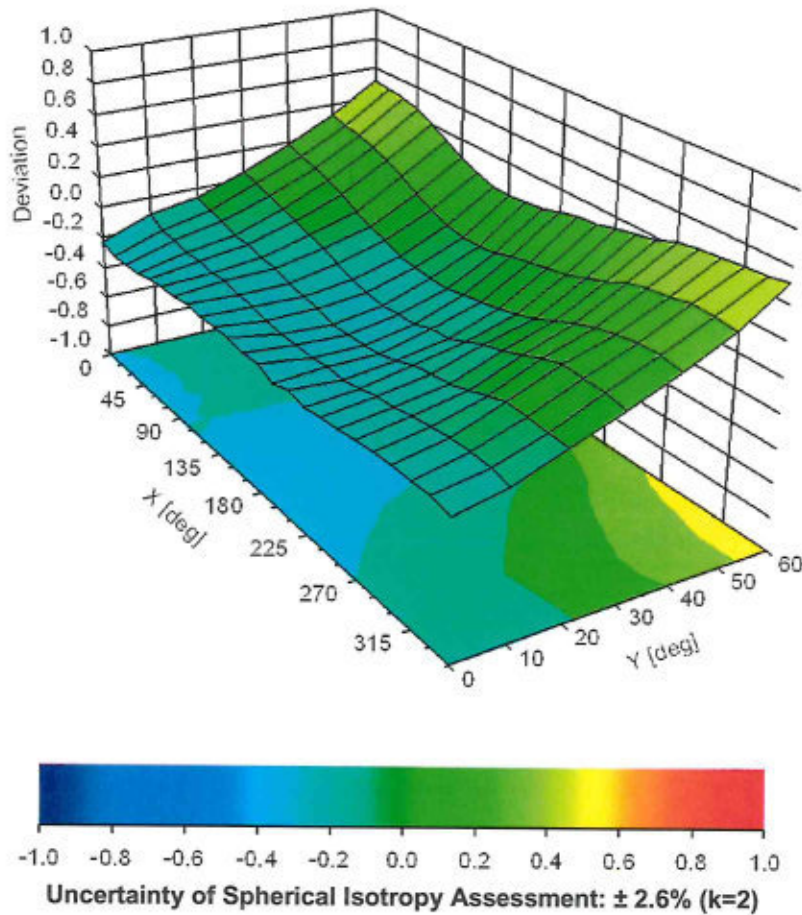


Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, ϑ), f = 900 MHz





Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power level/Default Power level for WWAN

Ant1 DSI1&3&4&5		Ant4 DSI4		GSM850_Ant1&4					
GSM850	TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		193	199	251		193	199	251	
	Frequency (MHz)	824.2	838.4	848.8	824.2	838.4	848.8		
	GSM 1 Tx slot	32.82	32.95	32.86	33.50	23.82	23.95	23.86	24.50
	GPRS 1 Tx slot	32.81	32.93	32.85	33.50	23.81	23.93	23.85	24.50
	GPRS 2 Tx slots	30.01	29.83	29.81	31.00	24.01	23.83	23.81	25.00
	GPRS 3 Tx slots	28.44	28.14	28.33	29.00	24.18	23.88	24.07	24.74
	GPRS 4 Tx slots	26.72	26.83	26.81	28.00	23.72	23.83	23.81	25.00
	EDGE 1 Tx slot	26.62	26.54	26.34	27.50	17.62	17.54	17.34	18.50
	EDGE 2 Tx slots	24.05	23.98	24.10	25.00	18.05	17.98	18.10	19.00
	EDGE 3 Tx slots	22.44	22.41	22.14	23.00	18.18	18.15	17.88	18.74
	EDGE 4 Tx slots	21.10	21.05	20.99	22.00	18.10	18.05	17.99	19.00

Ant2 DSI1&3&4&5		Ant3 DSI1&4&5		GSM1900_Ant2&3					
GSM1900	TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		512	661	810		512	661	810	
	Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8		
	GSM 1 Tx slot	29.71	30.09	29.89	30.50	20.71	21.09	20.89	21.50
	GPRS 1 Tx slot	29.69	30.08	29.88	30.50	20.69	21.08	20.88	21.50
	GPRS 2 Tx slots	26.31	26.43	26.28	27.50	20.31	20.43	20.28	21.50
	GPRS 3 Tx slots	24.61	24.81	24.71	25.50	20.25	20.35	20.45	21.24
	GPRS 4 Tx slots	23.21	23.45	23.22	24.50	20.25	20.45	20.22	21.50
	EDGE 1 Tx slot	25.74	25.81	25.56	26.50	16.74	16.81	16.56	17.50
	EDGE 2 Tx slots	22.95	22.91	22.73	23.50	16.95	16.91	16.73	17.50
	EDGE 3 Tx slots	21.43	21.31	20.94	21.50	17.17	17.05	16.68	17.24
	EDGE 4 Tx slots	20.04	19.77	19.55	20.50	17.04	16.77	16.55	17.50

Ant2 DSI1&4		Ant3 DSI4		Ant2 DSI1&4			Ant3 DSI1&4&5			Ant1 DSI1&4			Ant4 DSI4		
Band	TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)		
		9262	9400	9538		1312	1413	1513		4132	4182	4233			
	Rx Channel	9562	9800	9938	1537	1638	1738	4357	4407	4458					
	Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6					
	3GPP Rel 99	AMR 12.2Kbps	24.61	24.65	24.60	25.50	24.48	24.50	24.30	25.50	24.39	24.42	24.33	25.50	
	3GPP Rel 99	RMC 12.2Kbps	24.63	24.66	24.61	25.50	24.50	24.51	24.32	25.50	24.40	24.44	24.35	25.50	
	3GPP Rel 6	HSDPA Subtest-1	23.67	23.86	23.80	24.50	23.85	23.78	23.59	24.50	23.54	23.54	23.47	24.50	
	3GPP Rel 6	HSDPA Subtest-2	23.70	23.89	23.80	24.50	23.82	23.79	23.64	24.50	23.53	23.52	23.48	24.50	
	3GPP Rel 6	HSDPA Subtest-3	23.19	23.43	23.36	24.00	23.32	23.27	23.11	24.00	23.03	23.03	22.96	24.00	
	3GPP Rel 6	HSDPA Subtest-4	23.20	23.39	23.29	24.00	23.30	23.31	23.12	24.00	23.04	23.03	23.01	24.00	
	3GPP Rel 6	DC-HSDPA Subtest-1	23.51	23.80	23.67	24.50	23.73	23.59	23.42	24.50	23.48	23.44	23.35	24.50	
	3GPP Rel 6	DC-HSDPA Subtest-2	23.61	23.77	23.62	24.50	23.69	23.63	23.58	24.50	23.42	23.33	23.39	24.50	
	3GPP Rel 6	DC-HSDPA Subtest-3	23.00	23.23	23.27	24.00	23.21	23.20	22.99	24.00	22.84	22.87	22.79	24.00	
	3GPP Rel 6	DC-HSDPA Subtest-4	23.14	23.34	23.14	24.00	23.10	23.24	22.98	24.00	22.99	22.88	22.83	24.00	
	3GPP Rel 6	HSUPA Subtest-1	23.80	23.93	23.84	24.50	23.83	23.82	23.64	24.50	23.54	23.51	23.47	24.50	
	3GPP Rel 6	HSUPA Subtest-2	21.82	21.96	21.86	22.50	21.79	21.83	21.62	22.50	21.49	21.51	21.44	22.50	
	3GPP Rel 6	HSUPA Subtest-3	22.79	22.95	22.85	23.50	22.80	22.81	22.63	23.50	22.50	22.50	22.44	23.50	
	3GPP Rel 6	HSUPA Subtest-4	21.76	21.89	21.81	22.50	21.75	21.80	21.65	22.50	21.51	21.45	21.46	22.50	
	3GPP Rel 6	HSUPA Subtest-5	23.80	23.90	23.80	24.50	23.80	23.80	23.70	24.50	23.50	23.50	23.40	24.50	



Band 2_Ant2&3 Ant2 DSI1&4 Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.86	23.92	24.00			
20	QPSK	1	49	24.71	24.74	24.73		25.5	0
20	QPSK	1	99	24.64	24.67	24.61			
20	QPSK	50	0	23.65	23.69	23.88			
20	QPSK	50	24	23.67	23.62	23.64		24.5	1
20	QPSK	50	50	23.62	23.65	23.61			
20	QPSK	100	0	23.67	23.68	23.65			
20	16QAM	1	0	23.86	23.92	24.00			
20	16QAM	1	49	23.84	23.90	23.83		24.5	1
20	16QAM	1	99	23.76	23.78	23.76			
20	16QAM	50	0	22.63	22.65	22.88			
20	16QAM	50	24	22.71	22.65	22.66		23.5	2
20	16QAM	50	50	22.62	22.65	22.62			
20	16QAM	100	0	22.66	22.62	22.69			
20	64QAM	1	0	22.79	22.76	22.73			
20	64QAM	1	49	22.70	22.73	22.71		23.5	2
20	64QAM	1	99	22.68	22.65	22.60			
20	64QAM	50	0	21.62	21.64	21.69			
20	64QAM	50	24	21.69	21.62	21.64		22.5	3
20	64QAM	50	50	21.63	21.67	21.61			
20	64QAM	100	0	21.68	21.59	21.66			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.58	24.56	24.52			
15	QPSK	1	37	24.58	24.57	24.52		25.5	0
15	QPSK	1	74	24.51	24.53	24.46			
15	QPSK	36	0	23.63	23.65	23.68			
15	QPSK	36	20	23.69	23.64	23.67		24.5	1
15	QPSK	36	39	23.64	23.68	23.62			
15	QPSK	75	0	23.70	23.63	23.66			
15	16QAM	1	0	23.81	23.81	23.83			
15	16QAM	1	37	23.84	23.89	23.90		24.5	1
15	16QAM	1	74	23.87	23.88	23.88			
15	16QAM	36	0	22.68	22.65	22.70			
15	16QAM	36	20	22.71	22.67	22.66		23.5	2
15	16QAM	36	39	22.66	22.70	22.61			
15	16QAM	75	0	22.71	22.65	22.66			
15	64QAM	1	0	22.75	22.82	22.72			
15	64QAM	1	37	22.75	22.82	22.72		23.5	2
15	64QAM	1	74	22.74	22.73	22.64			
15	64QAM	36	0	21.65	21.67	21.67			
15	64QAM	36	20	21.71	21.65	21.65		22.5	3
15	64QAM	36	39	21.63	21.68	21.62			
15	64QAM	75	0	21.67	21.65	21.63			
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.67	24.74	24.84			
10	QPSK	1	25	24.65	24.70	24.62		25.5	0
10	QPSK	1	49	24.55	24.60	24.53			
10	QPSK	25	0	23.71	23.76	23.76			
10	QPSK	25	12	23.81	23.73	23.75		24.5	1
10	QPSK	25	25	23.72	23.78	23.67			
10	QPSK	50	0	23.69	23.72	23.79			
10	16QAM	1	0	24.08	24.10	23.96			
10	16QAM	1	25	24.04	24.04	23.95		24.5	1
10	16QAM	1	49	23.97	24.03	23.92			
10	16QAM	25	0	22.76	22.78	22.77			
10	16QAM	25	12	22.84	22.76	22.78		23.5	2
10	16QAM	25	25	22.77	22.78	22.68			
10	16QAM	50	0	22.79	22.75	22.72			
10	64QAM	1	0	22.92	22.95	22.88			
10	64QAM	1	25	22.85	22.98	22.77		23.5	2
10	64QAM	1	49	22.85	22.82	22.82			
10	64QAM	25	0	21.73	21.75	21.74			
10	64QAM	25	12	21.82	21.73	21.75		22.5	3
10	64QAM	25	25	21.71	21.76	21.65			
10	64QAM	50	0	21.77	21.73	21.74			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.69	24.68	24.63			
5	QPSK	1	12	24.66	24.73	24.69		25.5	0
5	QPSK	1	24	24.63	24.65	24.56			
5	QPSK	12	0	23.84	23.76	23.74			
5	QPSK	12	7	23.78	23.74	23.73		24.5	1
5	QPSK	12	13	23.70	23.72	23.62			
5	QPSK	25	0	23.79	23.81	23.87			
5	16QAM	1	0	24.04	24.07	23.98			
5	16QAM	1	12	24.02	24.04	23.98		24.5	1
5	16QAM	1	24	23.92	24.00	23.94			
5	16QAM	12	0	22.86	22.78	22.76			
5	16QAM	12	7	22.80	22.73	22.75		23.5	2
5	16QAM	12	13	22.71	22.76	22.63			
5	16QAM	25	0	22.82	22.95	22.89			
5	64QAM	1	0	22.93	22.99	22.95			
5	64QAM	1	12	22.87	22.98	22.85		23.5	2
5	64QAM	1	24	22.86	22.94	22.79			
5	64QAM	12	0	21.84	21.81	21.77			
5	64QAM	12	7	21.79	21.73	21.73		22.5	3
5	64QAM	12	13	21.71	21.74	21.65			
5	64QAM	25	0	21.67	21.73	21.68			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.73	24.67	24.67			
3	QPSK	1	8	24.66	24.73	24.69		25.5	0
3	QPSK	1	14	24.54	24.62	24.48			
3	QPSK	8	0	23.81	23.73	23.71			
3	QPSK	8	4	23.74	23.79	23.70		24.5	1
3	QPSK	8	7	23.76	23.77	23.67			
3	QPSK	15	0	23.75	23.70	23.66			
3	16QAM	1	0	24.07	24.08	24.06			
3	16QAM	1	8	24.06	24.10	23.95		24.5	1
3	16QAM	1	14	23.92	23.98	23.78			
3	16QAM	8	0	22.82	22.77	22.75			
3	16QAM	8	4	22.85	22.88	22.79		23.5	2
3	16QAM	8	7	22.75	22.77	22.68			
3	16QAM	15	0	22.77	22.71	22.70			
3	64QAM	1	0	22.99	22.99	22.92			
3	64QAM	1	8	23.02	22.99	22.96		23.5	2
3	64QAM	1	14	22.83	22.90	22.77			
3	64QAM	8	0	21.87	21.79	21.76			
3	64QAM	8	4	21.81	21.80	21.69		22.5	3
3	64QAM	8	7	21.75	21.77	21.68			
3	64QAM	15	0	21.74	21.72	21.68			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	24.66	24.66	24.51			
1.4	QPSK	1	3	24.64	24.73	24.58		25.5	0
1.4	QPSK	1	5	24.51	24.54	24.44			
1.4	QPSK	3	0	24.64	24.67	24.56			
1.4	QPSK	3	1	24.69	24.71	24.63			
1.4	QPSK	3	3	24.56	24.63	24.63		24.5	1
1.4	QPSK	6	0	23.69	23.69	23.60			
1.4	16QAM	1	0	23.98	24.05	23.93			
1.4	16QAM	1	3	23.99	24.05	23.90		24.5	1
1.4	16QAM	1	5	23.88	23.95	23.81			
1.4	16QAM	3	0	23.77	23.77	23.65			
1.4	16QAM	3	1	23.71	23.81	23.65		23.5	2
1.4	16QAM	3	3	23.76	23.78	23.62			
1.4	16QAM	6	0	22.69	22.78	22.63		23.5	2
1.4	64QAM	1	0	22.85	22.90	22.76			
1.4	64QAM	1	3	22.84	22.88	22.79			
1.4	64QAM	1	5	22.78	22.84	22.70		23.5	2
1.4	64QAM	3	0	22.78	22.80	22.70			
1.4	64QAM	3	1	22.78	22.82	22.69			
1.4	64QAM	3	3	22.73	22.78	22.68			
1.4	64QAM	6	0	21.63	21.70	21.67		22.5	3

Band 4_Ant2&3 Ant2 DSI1&4 Ant3 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	24.77	24.70	24.74			
20	QPSK	1	49	24.82	24.76	24.65		25.5	0
20	QPSK	1	99	24.71	24.61	24.50			
20	QPSK	50	0	23.91	24.00	23.80			
20	QPSK	50	24	23.97	23.86	23.82		24.5</	



Band 7_Ant2&3 Ant2 DSI&4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2310	2315	2320		
20	QPSK	1	0	24.97	25.02	24.99	25.5	0
20	QPSK	1	49	25.03	25.02	24.99		
20	QPSK	1	99	25.04	25.06	24.78		
20	QPSK	50	0	23.97	24.05	23.93		
20	QPSK	50	24	24.04	23.96	23.93		
20	QPSK	50	50	24.04	23.95	23.99	24.5	1
20	QPSK	100	0	23.98	24.02	24.00		
20	16QAM	1	0	24.05	24.02	24.04		
20	16QAM	1	49	24.13	24.12	23.92		
20	16QAM	1	99	24.24	24.20	23.99		
20	16QAM	50	0	23.00	22.89	22.95		
20	16QAM	50	24	23.05	22.87	23.00		
20	16QAM	50	50	23.05	22.96	22.77	23.5	2
20	16QAM	100	0	23.03	22.95	22.99		
20	64QAM	1	0	22.95	22.89	22.90		
20	64QAM	1	49	23.00	23.01	22.90		
20	64QAM	1	99	23.15	23.03	22.84		
20	64QAM	50	0	21.99	21.89	21.96		
20	64QAM	50	24	22.03	21.87	21.99		
20	64QAM	50	50	22.03	21.93	21.78	22.5	3
20	64QAM	100	0	22.05	21.87	21.96		
Channel								
Frequency (MHz)				2325	2330	2335		
15	QPSK	1	0	24.73	24.73	24.71	25.5	0
15	QPSK	1	37	24.87	24.84	24.51		
15	QPSK	1	74	24.89	24.86	24.58		
15	QPSK	36	0	23.96	23.92	23.92		
15	QPSK	36	20	24.04	23.94	23.88		
15	QPSK	36	39	24.02	23.97	23.84	24.5	1
15	QPSK	75	0	24.04	23.94	23.82		
15	16QAM	1	0	24.10	24.13	24.07		
15	16QAM	1	37	24.15	24.13	23.80		
15	16QAM	1	74	24.25	24.18	23.96		
15	16QAM	36	0	22.94	22.89	22.93		
15	16QAM	36	20	23.05	22.97	22.78		
15	16QAM	36	39	23.05	22.92	22.79	23.5	2
15	16QAM	75	0	23.06	22.94	22.94		
15	64QAM	1	0	23.08	23.03	22.72		
15	64QAM	1	37	23.08	23.03	22.72		
15	64QAM	1	74	23.11	23.07	22.87		
15	64QAM	36	0	21.95	21.90	21.94		
15	64QAM	36	20	22.02	21.95	21.74		
15	64QAM	36	39	22.04	21.95	21.75	22.5	3
15	64QAM	75	0	22.07	21.97	21.95		
Channel								
Frequency (MHz)				2505	2510	2515		
10	QPSK	1	0	25.00	24.93	24.85	25.5	0
10	QPSK	1	25	25.05	25.06	24.73		
10	QPSK	1	49	25.04	25.03	24.70		
10	QPSK	25	0	24.11	24.61	23.77		
10	QPSK	25	12	24.16	24.07	23.70		
10	QPSK	25	25	24.13	24.13	23.88	24.5	1
10	QPSK	50	0	24.13	24.05	23.82		
10	16QAM	1	0	24.27	24.23	24.10		
10	16QAM	1	25	24.23	24.20	23.83		
10	16QAM	1	49	24.22	24.24	23.85		
10	16QAM	25	0	23.13	23.03	22.90		
10	16QAM	25	12	23.19	23.09	22.81		
10	16QAM	25	25	23.16	23.16	22.98	23.5	2
10	16QAM	50	0	23.17	23.05	22.83		
10	64QAM	1	0	23.24	23.17	23.07		
10	64QAM	1	25	23.22	23.23	22.85		
10	64QAM	1	49	23.35	23.33	22.86		
10	64QAM	25	0	22.15	22.02	21.87		
10	64QAM	25	12	22.14	22.09	21.78		
10	64QAM	25	25	22.12	22.11	21.95	22.5	3
10	64QAM	50	0	22.13	22.00	21.84		
Channel								
Frequency (MHz)				2525	2535	2557.5		
5	QPSK	1	0	25.03	24.96	24.86	25.5	0
5	QPSK	1	12	25.02	25.07	24.80		
5	QPSK	1	24	25.04	25.07	24.82		
5	QPSK	12	0	24.08	23.98	23.88		
5	QPSK	12	7	24.18	24.13	24.09		
5	QPSK	12	13	24.17	24.15	24.10	24.5	1
5	QPSK	25	0	24.11	23.99	24.03		
5	16QAM	1	0	24.35	24.30	24.05		
5	16QAM	1	12	24.31	24.36	24.24		
5	16QAM	1	24	24.41	24.41	24.12		
5	16QAM	12	0	23.11	22.97	23.03		
5	16QAM	12	7	23.17	23.14	23.21		
5	16QAM	12	13	23.20	23.17	23.29	23.5	2
5	16QAM	25	0	23.15	23.02	23.16		
5	64QAM	1	0	23.33	23.25	22.97		
5	64QAM	1	12	23.31	23.23	23.15		
5	64QAM	1	24	23.33	23.32	23.02		
5	64QAM	12	0	22.10	21.94	21.89		
5	64QAM	12	7	22.16	22.12	21.88		
5	64QAM	12	13	22.17	22.16	21.93	22.5	3
5	64QAM	25	0	22.14	21.99	21.84		

Band 12_Ant1&4 Ant1 DSI&3&4&5 Ant4 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.63	24.95	24.87	25.5	0
10	QPSK	1	25	24.74	24.73	24.89		
10	QPSK	1	49	24.82	24.78	24.65		
10	QPSK	25	0	23.72	23.92	23.79		
10	QPSK	25	12	23.89	23.72	23.83		
10	QPSK	25	25	23.85	23.89	23.91	24.5	1
10	QPSK	50	0	23.79	23.86	23.77		
10	16QAM	1	0	23.96	24.15	24.27		
10	16QAM	1	25	24.21	24.24	24.26		
10	16QAM	1	49	24.28	24.26	24.20		
10	16QAM	25	0	22.71	22.84	22.74		
10	16QAM	25	12	22.78	22.79	22.87		
10	16QAM	25	25	22.69	22.89	22.71	23.5	2
10	16QAM	50	0	22.79	22.77	22.84		
10	64QAM	1	0	23.23	23.19	23.32		
10	64QAM	1	25	22.99	23.05	23.30		
10	64QAM	1	49	23.19	23.26	23.20		
10	64QAM	25	0	21.81	21.82	21.74		
10	64QAM	25	12	21.80	21.82	21.88		
10	64QAM	25	25	21.92	21.84	21.89	22.5	3
10	64QAM	50	0	21.87	21.72	21.92		
Channel								
Frequency (MHz)				715.5	707.5	715.5		
5	QPSK	1	0	24.52	24.60	24.52	25.5	0
5	QPSK	1	12	24.80	24.65	24.63		
5	QPSK	1	24	24.59	24.62	24.59		
5	QPSK	12	0	23.55	23.64	23.62		
5	QPSK	12	7	23.85	23.63	23.85		
5	QPSK	12	13	23.65	23.68	23.68	24.5	1
5	QPSK	25	0	23.66	23.61	23.59		
5	16QAM	1	0	23.85	23.91	23.91		
5	16QAM	1	12	23.92	23.97	24.07		
5	16QAM	1	24	23.92	23.95	23.93		
5	16QAM	12	0	22.58	22.66	22.66		
5	16QAM	12	7	22.71	22.67	22.82		
5	16QAM	12	13	22.66	22.71	22.68	23.5	2
5	16QAM	25	0	22.64	22.65	22.63		
5	64QAM	1	0	22.77	22.78	22.82		
5	64QAM	1	12	22.83	22.87	22.72		
5	64QAM	1	24	22.80	22.83	22.77		
5	64QAM	12	0	21.61	21.67	21.66		
5	64QAM	12	7	21.66	21.66	21.70		
5	64QAM	12	13	21.65	21.71	21.73	22.5	3
5	64QAM	25	0	21.64	21.64	21.62		
Channel								
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.54	24.62	24.61	25.5	0
3	QPSK	1	8	24.59	24.66	24.65		
3	QPSK	1	14	24.53	24.57	24.57		
3	QPSK	8	0	23.60	23.65	23.60		
3	QPSK	8	4	23.64	23.66	23.64		
3	QPSK	8	7	23.62	23.67	23.65	24.5	1
3	QPSK	15	0	23.60	23.58	23.59		
3	16QAM	1	0	23.88	23.92	23.93		
3	16QAM	1	8	23.93	24.02	24.04		
3	16QAM	1	14	23.89	23.97	23.91		



Band 17_Ant1&4 Ant1 DS1&3&4&5 Ant4 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.55	24.90	24.59	25.5	0	
10	QPSK	1	25	24.74	24.89	24.84			
10	QPSK	1	49	24.59	24.84	24.82			
10	QPSK	25	0	23.73	23.90	23.75			
10	QPSK	25	12	23.87	23.74	23.83			
10	QPSK	25	25	23.85	23.83	23.88			
10	QPSK	50	0	23.80	23.88	23.83			
10	16QAM	1	0	24.22	24.27	24.10			
10	16QAM	1	25	24.32	24.34	24.28			
10	16QAM	1	49	24.30	24.40	24.27			
10	16QAM	25	0	22.74	22.77	22.77			
10	16QAM	25	12	22.81	22.80	22.76			
10	16QAM	25	25	22.82	22.80	22.82			
10	16QAM	50	0	22.81	22.72	22.84			
10	64QAM	1	0	23.10	23.07	23.15			
10	64QAM	1	25	23.02	23.02	22.99			
10	64QAM	1	49	23.17	23.12	23.21			
10	64QAM	25	0	21.75	21.77	21.84			
10	64QAM	25	12	21.93	21.84	21.89			
10	64QAM	25	25	21.87	21.77	21.81			
10	64QAM	50	0	21.78	21.76	21.81			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.49	24.53	24.52			
5	QPSK	1	12	24.55	24.59	24.62			
5	QPSK	1	24	24.55	24.56	24.55			
5	QPSK	12	0	23.59	23.61	23.61			
5	QPSK	12	7	23.72	23.63	23.70			
5	QPSK	12	13	23.67	23.69	23.75			
5	QPSK	25	0	23.67	23.60	23.61			
5	16QAM	1	0	23.90	23.88	23.90			
5	16QAM	1	12	23.94	23.94	23.99			
5	16QAM	1	24	23.92	23.88	23.93			
5	16QAM	12	0	22.62	22.62	22.63			
5	16QAM	12	7	22.75	22.67	22.76			
5	16QAM	12	13	22.72	22.73	22.71			
5	16QAM	25	0	22.69	22.63	22.62			
5	64QAM	1	0	22.82	22.86	22.86			
5	64QAM	1	12	22.92	22.85	22.92			
5	64QAM	1	24	22.87	22.87	22.87			
5	64QAM	12	0	21.63	21.64	21.64			
5	64QAM	12	7	21.74	21.66	21.75			
5	64QAM	12	13	21.72	21.71	21.73			
5	64QAM	25	0	21.67	21.59	21.62			

Band 26_Ant1&4 Ant1 DS1&4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.15	24.09	24.06			
15	QPSK	1	37	24.92	24.76	24.67			
15	QPSK	1	74	24.66	24.65	24.58			
15	QPSK	36	0	23.80	23.83	23.76			
15	QPSK	36	20	23.82	23.71	23.75			
15	QPSK	36	39	23.66	23.81	23.60			
15	QPSK	75	0	23.78	23.80	23.72			
15	16QAM	1	0	24.15	24.09	24.06			
15	16QAM	1	37	24.09	24.14	24.07			
15	16QAM	1	74	24.20	24.30	23.91			
15	16QAM	36	0	22.80	22.72	22.78			
15	16QAM	36	20	22.86	22.78	22.72			
15	16QAM	36	39	22.75	22.78	22.69			
15	16QAM	75	0	22.80	22.75	22.63			
15	64QAM	1	0	22.89	22.83	22.93			
15	64QAM	1	37	23.03	23.10	23.03			
15	64QAM	1	74	23.17	22.93	22.93			
15	64QAM	36	0	21.79	21.77	21.74			
15	64QAM	36	20	21.90	21.74	21.77			
15	64QAM	36	39	21.79	21.66	21.74			
15	64QAM	75	0	21.77	21.75	21.71			
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.04	24.66	24.79			
10	QPSK	1	25	24.83	24.76	24.56			
10	QPSK	1	49	24.70	24.75	24.53			
10	QPSK	25	0	23.83	23.78	23.80			
10	QPSK	25	12	23.81	23.80	23.84			
10	QPSK	25	25	23.88	23.91	23.49			
10	QPSK	50	0	23.88	23.83	23.67			
10	16QAM	1	0	24.12	24.10	24.16			
10	16QAM	1	25	24.24	24.10	23.90			
10	16QAM	1	49	24.10	23.96	23.92			
10	16QAM	25	0	22.86	22.79	22.82			
10	16QAM	25	12	22.95	22.83	22.83			
10	16QAM	25	25	22.79	22.90	22.84			
10	16QAM	50	0	22.92	22.81	22.92			
10	64QAM	1	0	22.97	23.17	23.03			
10	64QAM	1	25	23.08	23.20	22.92			
10	64QAM	1	49	22.88	22.85	22.90			
10	64QAM	25	0	21.81	21.86	21.81			
10	64QAM	25	12	21.85	21.87	21.89			
10	64QAM	25	25	21.83	21.89	21.74			
10	64QAM	50	0	21.81	21.78	21.80			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.92	24.81	24.70			
5	QPSK	1	12	24.67	24.64	24.57			
5	QPSK	1	24	24.80	24.81	24.74			
5	QPSK	12	0	23.88	23.79	23.81			
5	QPSK	12	7	23.93	23.71	23.76			
5	QPSK	12	13	23.85	23.77	23.78			
5	QPSK	25	0	23.87	23.86	23.70			
5	16QAM	1	0	24.24	24.19	23.84			
5	16QAM	1	12	23.85	23.91	23.99			
5	16QAM	1	24	24.20	24.08	24.01			
5	16QAM	12	0	22.88	22.84	22.80			
5	16QAM	12	7	22.93	22.70	22.69			
5	16QAM	12	13	22.75	22.86	22.78			
5	16QAM	25	0	22.91	22.70	22.70			
5	64QAM	1	0	23.09	22.99	22.97			
5	64QAM	1	12	22.89	23.04	22.90			
5	64QAM	1	24	23.32	23.00	23.18			
5	64QAM	12	0	21.88	21.90	21.70			
5	64QAM	12	7	21.87	21.83	21.70			
5	64QAM	12	13	21.93	21.91	21.78			
5	64QAM	25	0	21.94	21.75	21.74			
5	64QAM	25	0	21.91	21.76	21.75			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.85	24.82	24.61			
3	QPSK	1	8	24.87	24.92	24.84			
3	QPSK	1	14	24.92	24.81	24.72			
3	QPSK	8	0	23.90	23.74	23.70			
3	QPSK	8	4	23.85	23.86	23.71			
3	QPSK	8	7	23.84	23.82	23.70			
3	16QAM	1	0	23.88	23.68	23.65			
3	16QAM	1	8	24.24	24.27	24.17			
3	16QAM	1	8	24.20	24.22	24.11			
3	16QAM	1	14	24.17	24.03	24.28			
3	16QAM	8	0	22.95	22.84	22.75			
3	16QAM	8	4	22.95	23.00	22.80			
3	16QAM	8	7	22.83	22.85	22.76			
3	64QAM	1	0	23.07	22.81	22.69			
3	64QAM	1	8	23.02	22.91	23.09			
3	64QAM	1	8	23.29	23.31	23.02			
3	64QAM	1	14	23.12	22.96	22.94			
3	64QAM	8	0	21.90	21.89	21.66			
3	64QAM	8	4	21.92	21.92	21.51			
3	64QAM	8	7	21.95	21.90	21.90			
3	64QAM	15	0	21.85	21.78	21.70			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	24.77	24.71	24.61			
1.4	QPSK	1	3	24.74	24.82	24.64			
1.4	QPSK	1	5	24.76	24.78	24.64			
1.4	QPSK	3	0	24.77	24.71	24.68			
1.4	QPSK	3	1	24.72	24.71	24.66			
1.4	QPSK	3	3	24.74	24.80	24.66			
1.4	QPSK	6	0	23.77	23.69	23.68			
1.4	16QAM	1	0	24.01	23.91	24.11			
1.4	16QAM	1	3	24.05	24.05	23.89			
1.4	16QAM	1	5	23.94	23.95	23.85			
1.4	16QAM	3	0	23.94	23.81	23.75			
1.4	16QAM	3	1	23.56	23.56	23.74			
1.4	16QAM	3	3	23.77	23.87	23.67			
1.4	16QAM	6	0	22.82	22.94	22.94			
1.4	64QAM	1	0	22.61	22.65	22.56			
1.4	64QAM	1	3	22.72	22.59	22.61			
1.4	64QAM	1	5	22.73	22.62	22.55			
1.4	64QAM	3	0	22.85	22.78	22.82			
1.4	64QAM	3	1	22.57	22.85	22.84			
1.4	64QAM	3	3	22.85	22.78	22.79			
1.4	64QAM	6	0	21.76	21.60	21.69			

Band 66_Ant2&3 Ant2 DS1&4 Ant3 DS14									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	24.79	24.74	24.71			
20	QPSK	1	49	24.78	24.70	24.67			
20	QPSK	1	99	24.67	24.60	24.62			
20	QPSK	50	0	23.81	23.90	23.70			
20	QPSK	50	24	23.89	23.76	23.76			
20	QPSK	50	50	23.84	23.74	23.71			
20	QPSK	100	0	23.83	23.86	23.74			
20	16QAM	1	0	24.92	24.97	24.99			
20	16QAM	1	49	24.14	24.05	24.03			
20	16QAM	1	99	24.02	23.99	23.94			
20	16QAM	50	0	22.84	22.77	22.74			
20	16QAM	50	24	22.92	22.75	22.82			
20	16QAM	50	50	22.85	22.78	22.72			
20	16QAM	100	0	22.87	22.79	22.74			
20	64QAM	1	0	23.09	22.97	23.02			
20	64QAM	1	49	23.11	23.03	22.95			
20	64QAM	1	99	22.96	22.94	22.89			
20	64QAM	50	0	21.83	21.76	21.70			
20	64QAM	50	24	21.88	21.73	21.77			
20	64QAM	50	50	21.83	21.74	21.71			
20	64QAM	100	0	21.88	21.81	21.75			
Channel									
Frequency (MHz)									
15	QPSK	1	0	24.70	24.64	24.58			
15	QPSK	1	37	24.75	24.67	24.65			
15	QPSK	1	74	24.63	24.58	24.52			
15	QPSK	36	0	23.88	23.74	23.65			
15	QPSK	36	20	23.87	23.83	23.66			
15	QPSK	36	39	23.83	23.74	23.69			
15	QPSK	75	0	23.87	23.77	23.63			
15	16QAM	1	0	24.14	24.04	24.02			
15	16QAM	1	37	24.09	24.05	24.01			
15	16QAM	1	74	24.03	24.04	23.98			
15	16QAM	36	0	22.93	22.75	22.71			
15	16QAM	36	20	22.93	22.83	22.69			
15	16QAM	36	39	22.86	22.77	22.71			
15	16QAM	75	0	22.89	22.81	22.67			
15	64QAM	1	0	23.09	22.99	22.97			
15	64QAM	1	37	23.12	23.02	22.90			
15	64QAM								



Band 38_Ant2&3 Ant2 DS1&4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)		
Channel Frequency (MHz)										
				37850	38000	38150				
20	QPSK	1	0	24.91	25.00	24.83				
20	QPSK	1	49	24.87	24.76	24.73	25.5	0		
20	QPSK	1	99	24.82	24.73	24.66				
20	QPSK	50	0	23.87	23.91	23.78	24.5	1		
20	QPSK	50	50	23.82	23.86	23.83				
20	QPSK	100	0	22.82	22.86	22.79				
20	16QAM	1	0	23.87	23.91	23.84	24.5	1		
20	16QAM	1	49	23.90	23.91	23.92				
20	16QAM	1	99	23.93	23.90	23.88				
20	16QAM	50	0	22.96	22.98	22.78	23.5	2		
20	16QAM	50	24	22.90	22.91	22.84				
20	16QAM	50	50	22.87	22.86	22.86				
20	16QAM	100	0	22.88	22.88	22.79				
20	64QAM	1	0	22.82	22.87	22.84	23.5	2		
20	64QAM	1	49	22.85	22.68	22.68				
20	64QAM	1	99	22.70	22.66	22.69				
20	64QAM	50	0	21.89	21.82	21.70	22.5	3		
20	64QAM	50	24	21.84	21.84	21.74				
20	64QAM	50	50	21.82	21.83	21.78				
20	64QAM	100	0	21.90	21.90	21.82				
Channel Frequency (MHz)										
				37925	38000	38175	Turn-up time (dBm)	MPR (dB)		
15	QPSK	1	0	24.83	24.72	24.61				
15	QPSK	1	37	24.86	24.77	24.72	25.5	0		
15	QPSK	1	74	24.76	24.76	24.72				
15	QPSK	36	0	23.91	23.83	23.73	24.5	1		
15	QPSK	36	20	23.94	23.89	23.87				
15	QPSK	36	39	23.82	23.83	23.81				
15	QPSK	75	0	23.92	23.94	23.80				
15	16QAM	1	0	24.01	23.96	23.82	24.5	1		
15	16QAM	1	37	23.95	23.88	23.88				
15	16QAM	1	74	23.99	23.91	23.91				
15	16QAM	36	0	22.96	22.91	22.71	23.5	2		
15	16QAM	36	20	22.98	22.88	22.85				
15	16QAM	36	39	22.80	22.78	22.78				
15	16QAM	75	0	22.95	22.87	22.84				
15	64QAM	1	0	22.79	22.68	22.68	23.5	2		
15	64QAM	1	37	22.74	22.67	22.69				
15	64QAM	1	74	22.72	22.66	22.67				
15	64QAM	36	0	21.88	21.84	21.73	22.5	3		
15	64QAM	36	20	21.96	21.88	21.85				
15	64QAM	36	39	21.81	21.82	21.79				
15	64QAM	75	0	21.92	21.85	21.83				
Channel Frequency (MHz)										
				37950	38000	38050	Turn-up time (dBm)	MPR (dB)		
10	QPSK	1	0	24.88	24.86	24.80				
10	QPSK	1	25	24.88	24.83	24.82	25.5	0		
10	QPSK	1	49	24.87	24.87	24.85				
10	QPSK	25	0	24.00	23.90	23.81	24.5	1		
10	QPSK	25	12	23.94	23.94	23.93				
10	QPSK	25	25	23.92	23.88	23.88				
10	QPSK	50	0	23.94	23.89	23.89				
10	16QAM	1	0	24.05	23.93	23.89	24.5	1		
10	16QAM	1	25	23.91	23.96	23.84				
10	16QAM	1	49	23.93	23.91	23.89				
10	16QAM	25	0	22.93	22.94	22.88	23.5	2		
10	16QAM	25	12	22.99	22.98	22.96				
10	16QAM	25	25	22.94	22.93	22.91				
10	16QAM	50	0	22.96	22.96	22.94				
10	64QAM	1	0	22.81	22.80	22.77	23.5	2		
10	64QAM	1	25	22.80	22.74	22.73				
10	64QAM	1	49	22.77	22.74	22.76				
10	64QAM	25	0	22.00	21.96	21.83	22.5	3		
10	64QAM	25	12	21.94	21.93	21.91				
10	64QAM	25	25	21.87	21.89	21.89				
10	64QAM	50	0	21.86	21.89	21.85				
Channel Frequency (MHz)										
				37775	38000	38225	Turn-up time (dBm)	MPR (dB)		
5	QPSK	1	0	24.93	24.82	24.80				
5	QPSK	1	12	24.94	24.87	24.95	25.5	0		
5	QPSK	1	24	24.87	24.78	24.74				
5	QPSK	12	0	24.00	23.88	23.81	24.5	1		
5	QPSK	12	7	24.01	23.91	23.90				
5	QPSK	12	13	23.99	23.90	23.88				
5	16QAM	1	0	24.08	23.93	23.87	24.5	1		
5	16QAM	1	12	23.99	23.86	23.87				
5	16QAM	1	24	24.04	23.94	23.92				
5	16QAM	12	0	22.96	22.84	22.76	23.5	2		
5	16QAM	12	7	22.98	22.85	22.89				
5	16QAM	12	13	22.96	22.85	22.85				
5	16QAM	25	0	22.03	22.92	22.91				
5	64QAM	1	0	22.83	22.72	22.69	23.5	2		
5	64QAM	1	12	22.72	22.69	22.62				
5	64QAM	1	24	22.83	22.72	22.68				
5	64QAM	12	0	22.00	21.87	21.81	22.5	3		
5	64QAM	12	7	21.96	21.86	21.83				
5	64QAM	12	13	22.00	21.91	21.88				
5	64QAM	25	0	21.97	21.87	21.85				

Band 41_Ant2&3 Ant2 DS1&4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)
Channel Frequency (MHz)										
				39750	40100	40500	41005	41440		
20	QPSK	1	0	24.82	24.79	25.07	24.72	24.78		
20	QPSK	1	49	24.93	24.85	24.67	24.68	24.71	25.5	0
20	QPSK	1	99	24.83	24.78	24.72	24.73	24.72		
20	QPSK	50	0	24.03	24.06	24.04	23.98	23.88	24.5	1
20	QPSK	50	24	24.05	24.05	23.90	23.90	23.90		
20	QPSK	50	50	24.02	24.01	23.88	23.84	23.85		
20	QPSK	100	0	23.03	23.04	23.04	22.98	22.88		
20	16QAM	1	0	23.96	23.97	23.85	23.88	23.95	24.5	1
20	16QAM	1	49	24.01	23.97	23.84	23.83	23.88		
20	16QAM	1	99	24.03	23.93	23.90	23.85	23.84		
20	16QAM	50	0	23.03	23.04	22.95	22.93	22.88	23.5	2
20	16QAM	50	24	23.07	23.06	22.88	22.90	22.92		
20	16QAM	50	50	23.07	23.01	22.88	22.86	22.87		
20	16QAM	100	0	22.06	23.05	22.88	22.88	22.90		
20	64QAM	1	0	22.72	22.73	22.64	22.65	22.70	23.5	2
20	64QAM	1	49	22.91	22.73	22.58	22.60	22.60		
20	64QAM	1	99	22.87	22.68	22.64	22.65	22.59		
20	64QAM	50	0	21.97	21.98	21.75	21.75	21.77	22.5	3
20	64QAM	50	24	21.99	22.02	21.86	21.84	21.85		
20	64QAM	50	50	22.00	21.96	21.83	21.81	21.78		
20	64QAM	100	0	22.13	22.09	21.92	21.93	21.97		
Channel Frequency (MHz)										
				39725	40175	40620	41068	41515	Turn-up time (dBm)	MPR (dB)
15	QPSK	1	0	24.81	24.85	24.75	24.71	24.73		
15	QPSK	1	37	24.92	24.81	24.65	24.66	24.70	25.0	0
15	QPSK	1	74	24.91	24.87	24.73	24.72	24.70		
15	QPSK	36	0	24.01	24.02	23.85	23.81	23.81	24.5	1
15	QPSK	36	20	24.03	24.05	23.85	23.81	23.82		
15	QPSK	36	39	24.01	24.01	23.86	23.85	23.86		
15	QPSK	75	0	24.04	24.02	23.86	23.80	23.81		
15	16QAM	1	0	23.98	24.03	23.89	23.85	23.92	24.5	1
15	16QAM	1	37	24.05	23.99	23.82	23.84	23.89		
15	16QAM	1	74	24.05	24.00	23.87	23.92	23.86		
15	16QAM	36	0	22.98	23.02	22.81	22.78	22.83	23.5	2
15	16QAM	36	20	23.01	23.03	22.87	22.78	22.80		
15	16QAM	36	39	22.99	22.98	22.85	22.84	22.83		
15	16QAM	75	0	23.06	23.04	22.90	22.82	22.83		
15	64QAM	1	0	22.74	22.81	22.61	22.61	22.73	23.5	2
15	64QAM	1	37	22.78	22.71	22.57	22.60	22.58		
15	64QAM	1	74	22.91	22.76	22.69	22.61	22.63		
15	64QAM	36	0	21.99	22.07	21.89	21.82	21.83	22.5	3
15	64QAM	36	20	22.06	22.02	21.87	21.77	21.82		
15	64QAM	36	39	22.03	21.99	21.87	21.85	21.86		
15	64QAM	75	0	22.03	22.05	21.87	21.79	21.82		
Channel Frequency (MHz)										
				39700	40150	40600	41050	41500	Turn-up time (dBm)	MPR (dB)
10	QPSK	1	0	25.03	24.92	24.89	24.81	24.83		
10	QPSK	1	25	25.05	25.00	24.84	24.83	24.82	25.0	0
10	QPSK	1	49	25.01	24.93	24.86	24.87	24.91		
10	QPSK	25	0	24.13	24.10	23.94	23.85	23.93	24.5	1
10	QPSK	25	12	24.16	24.14	23.97	23.98	24.01		
10	QPSK	25	25	24.15	24					

Band 42 Ant6 DS4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel Frequency (MHz)				42190	42600	42990	
20	QPSK	1	0	23.70	24.28	23.54	25.5
20	QPSK	1	49	23.73	24.02	23.56	25.5
20	QPSK	1	99	23.75	23.97	23.57	25.5
20	QPSK	50	0	22.74	23.02	22.52	24.5
20	QPSK	50	24	22.76	23.01	22.55	24.5
20	QPSK	50	50	22.71	23.02	22.51	24.5
20	QPSK	100	0	22.78	23.00	22.55	24.5
20	16QAM	1	0	22.85	23.24	22.80	24.5
20	16QAM	1	49	22.81	23.07	22.53	24.5
20	16QAM	1	99	22.83	23.06	22.52	24.5
20	16QAM	50	0	21.79	22.07	21.53	23.5
20	16QAM	50	24	21.83	22.11	21.50	23.5
20	16QAM	50	50	21.75	22.03	21.62	23.5
20	16QAM	100	0	21.78	22.05	21.57	23.5
20	16QAM	1	0	22.97	22.96	22.10	23.5
20	16QAM	1	49	22.95	22.82	22.12	23.5
20	16QAM	1	99	22.94	22.75	22.10	23.5
20	16QAM	50	0	21.88	21.91	21.35	22.5
20	16QAM	50	24	21.77	21.90	21.36	22.5
20	16QAM	50	50	21.71	21.94	21.39	22.5
20	16QAM	100	0	21.84	22.04	21.48	22.5
Channel Frequency (MHz)				42195	42600	43010	
15	QPSK	1	0	23.88	24.23	23.52	25.5
15	QPSK	1	37	23.89	24.06	23.51	25.5
15	QPSK	3	74	23.14	24.07	23.52	25.5
15	QPSK	3	0	22.88	23.15	22.52	24.5
15	QPSK	36	20	22.82	23.11	22.53	24.5
15	QPSK	36	39	22.88	23.03	22.52	24.5
15	QPSK	75	0	22.78	23.08	22.50	24.5
15	16QAM	1	0	22.74	23.22	22.86	24.5
15	16QAM	1	37	22.83	23.15	22.56	24.5
15	16QAM	1	74	22.74	23.04	22.55	24.5
15	16QAM	36	20	21.79	22.14	21.52	23.5
15	16QAM	36	39	21.81	22.02	21.55	23.5
15	16QAM	75	0	21.79	22.01	21.56	23.5
15	16QAM	1	0	22.83	23.03	22.31	23.5
15	16QAM	1	37	22.99	22.78	22.23	23.5
15	16QAM	1	74	22.45	22.71	22.04	23.5
15	16QAM	36	0	21.83	21.98	21.24	22.5
15	16QAM	36	20	21.88	21.92	21.38	22.5
15	16QAM	36	39	21.80	21.85	21.32	22.5
15	16QAM	75	0	21.81	21.96	21.37	22.5
Channel Frequency (MHz)				42190	42600	43010	
10	QPSK	1	0	23.99	24.25	23.34	25.5
10	QPSK	1	25	23.78	24.01	23.35	25.5
10	QPSK	1	49	23.82	24.00	23.28	25.5
10	QPSK	25	0	22.72	23.12	22.50	24.5
10	QPSK	25	12	22.72	22.95	22.34	24.5
10	QPSK	25	25	22.81	22.96	22.50	24.5
10	QPSK	50	0	22.85	23.08	22.57	24.5
10	16QAM	1	0	22.86	23.34	22.64	24.5
10	16QAM	1	25	22.87	23.00	22.52	24.5
10	16QAM	1	49	22.84	23.02	22.59	24.5
10	16QAM	25	0	21.88	22.07	21.50	23.5
10	16QAM	25	12	21.78	22.14	21.58	23.5
10	16QAM	25	25	21.66	21.95	21.53	23.5
10	16QAM	50	0	21.84	21.99	21.52	23.5
10	16QAM	1	0	22.91	22.90	22.09	23.5
10	16QAM	1	25	22.49	22.80	22.01	23.5
10	16QAM	1	49	22.61	22.77	22.14	23.5
10	16QAM	25	0	21.60	21.90	21.41	22.5
10	16QAM	25	12	21.67	20.95	21.44	22.5
10	16QAM	25	25	21.85	22.06	21.45	22.5
10	16QAM	50	0	21.84	22.09	21.41	22.5
Channel Frequency (MHz)				42115	42600	43060	
5	QPSK	1	0	23.99	24.26	23.56	25.5
5	QPSK	1	12	23.88	24.06	23.57	25.5
5	QPSK	1	24	23.14	23.95	23.53	25.5
5	QPSK	12	0	22.87	23.13	22.52	24.5
5	QPSK	12	7	22.88	22.91	22.52	24.5
5	QPSK	12	13	22.71	22.92	22.30	24.5
5	QPSK	25	0	22.81	23.01	22.48	24.5
5	16QAM	1	0	22.73	23.22	22.57	24.5
5	16QAM	1	12	22.81	23.12	22.51	24.5
5	16QAM	1	24	22.88	23.05	22.47	24.5
5	16QAM	12	0	21.72	22.16	21.41	23.5
5	16QAM	12	7	21.75	22.11	21.48	23.5
5	16QAM	12	13	21.81	22.08	21.52	23.5
5	16QAM	25	0	21.83	22.07	21.52	23.5
5	16QAM	1	0	22.47	22.98	22.14	23.5
5	16QAM	1	12	22.44	22.83	22.08	23.5
5	16QAM	1	24	22.64	22.78	22.13	23.5
5	16QAM	12	0	21.88	20.90	21.47	22.5
5	16QAM	12	7	21.82	20.98	21.45	22.5
5	16QAM	12	13	21.80	21.84	21.48	22.5
5	16QAM	25	0	21.90	22.01	21.40	22.5

Band 42 Ant6 DS4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	MPR (dB)
Channel Frequency (MHz)				42190	42600	42990	
20	QPSK	1	0	25.04	25.25	24.89	25.5
20	QPSK	1	49	25.11	25.15	24.95	25.5
20	QPSK	1	99	25.06	25.05	24.89	25.5
20	QPSK	50	0	24.11	24.52	24.01	24.5
20	QPSK	50	24	24.20	24.19	24.03	24.5
20	QPSK	50	50	24.19	24.20	24.02	24.5
20	QPSK	100	0	24.19	24.20	23.96	24.5
20	16QAM	1	0	24.26	24.36	24.08	24.5
20	16QAM	1	49	24.27	24.30	24.03	24.5
20	16QAM	1	99	24.24	24.22	24.00	24.5
20	16QAM	50	0	23.11	23.22	23.03	23.5
20	16QAM	50	24	23.26	23.18	23.04	23.5
20	16QAM	50	50	23.23	23.29	23.02	23.5
20	16QAM	100	0	23.22	23.23	23.02	23.5
20	16QAM	1	0	23.13	23.32	22.89	23.5
20	16QAM	1	49	23.15	23.30	22.88	23.5
20	16QAM	1	99	23.25	23.30	22.86	23.5
20	16QAM	50	0	22.07	22.18	21.96	22.5
20	16QAM	50	24	22.18	22.16	22.01	22.5
20	16QAM	50	50	22.22	22.19	21.92	22.5
20	16QAM	100	0	22.25	22.23	22.05	22.5
Channel Frequency (MHz)				42195	42600	43010	
15	QPSK	1	0	24.97	25.23	24.91	25.5
15	QPSK	1	37	25.15	25.22	24.84	25.5
15	QPSK	3	74	25.11	25.03	24.97	25.5
15	QPSK	3	0	24.06	24.19	23.93	24.5
15	QPSK	36	20	24.23	24.15	24.01	24.5
15	QPSK	36	39	24.28	24.22	24.07	24.5
15	QPSK	75	0	24.08	24.23	24.07	24.5
15	16QAM	1	0	24.38	24.36	24.09	24.5
15	16QAM	1	37	24.25	24.35	24.05	24.5
15	16QAM	1	74	24.26	24.31	24.09	24.5
15	16QAM	36	20	23.16	23.12	23.09	23.5
15	16QAM	36	39	23.32	23.10	23.09	23.5
15	16QAM	75	0	23.16	23.16	23.11	23.5
15	16QAM	1	0	22.85	23.05	22.31	23.5
15	16QAM	1	37	23.08	23.33	22.86	23.5
15	16QAM	1	74	23.24	23.29	23.01	23.5
15	16QAM	36	0	21.96	22.18	21.87	22.5
15	16QAM	36	20	22.06	22.16	21.97	22.5
15	16QAM	36	39	22.12	22.13	21.94	22.5
15	16QAM	75	0	22.31	22.20	21.98	22.5
Channel Frequency (MHz)				42190	42600	43010	
10	QPSK	1	0	25.04	25.21	24.97	25.5
10	QPSK	1	25	25.03	25.14	24.86	25.5
10	QPSK	1	49	24.99	25.13	24.86	25.5
10	QPSK	25	0	24.06	24.24	23.98	24.5
10	QPSK	25	12	24.11	24.28	24.07	24.5
10	QPSK	25	25	24.17	24.25	24.01	24.5
10	QPSK	50	0	24.15	24.21	24.05	24.5
10	16QAM	1	0	24.30	24.33	23.99	24.5
10	16QAM	1	25	24.28	24.40	23.96	24.5
10	16QAM	1	49	24.12	24.28	23.96	24.5
10	16QAM	25	0	23.15	23.27	23.13	23.5
10	16QAM	25	12	23.24	23.29	23.00	23.5
10	16QAM	25	25	23.32	23.22	23.00	23.5
10	16QAM	50	0	23.22	23.24	23.00	23.5
10	16QAM	1	0	23.01	23.32	22.84	23.5
10	16QAM	1	25	23.15	23.32	22.84	23.5
10	16QAM	1	49	23.30	23.24		



Reduced power level for WWAN

		WCDMA V Ant1_DS13				WCDMA V Ant1_DS15			
Band		WCDMA V			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel	4132	4182	4233	4132		4182	4233		
Rx Channel	4357	4407	4458	4357		4407	4458		
Frequency (MHz)		826.4	836.4	846.6	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.52	22.67	22.64	23.50	23.55	23.56	23.56	24.50
3GPP Rel 99	AMR 12.2Kbps	22.61	22.70	22.45	23.50	23.56	23.58	23.57	24.50
3GPP Rel 6	HSDPA Subtest-1	21.38	21.46	21.55	22.50	22.43	22.46	22.64	23.50
3GPP Rel 6	HSDPA Subtest-2	21.69	21.69	21.37	22.50	22.59	22.66	22.44	23.50
3GPP Rel 6	HSDPA Subtest-3	21.09	21.35	20.87	22.00	22.15	22.28	21.93	23.00
3GPP Rel 6	HSDPA Subtest-4	21.11	21.26	20.87	22.00	22.01	22.20	21.95	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.61	21.51	21.59	22.50	22.58	22.63	22.53	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.59	21.81	21.53	22.50	22.48	22.74	22.46	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.12	21.13	21.03	22.00	22.21	22.08	21.95	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	20.91	21.22	21.01	22.00	22.02	22.10	21.92	23.00
3GPP Rel 6	HSUPA Subtest-1	21.48	21.68	21.42	22.50	22.57	22.72	22.40	23.50
3GPP Rel 6	HSUPA Subtest-2	19.72	19.49	19.52	20.50	20.66	20.60	20.41	21.50
3GPP Rel 6	HSUPA Subtest-3	20.47	20.62	20.67	21.50	21.47	21.69	21.57	22.50
3GPP Rel 6	HSUPA Subtest-4	19.43	19.75	19.51	20.50	20.55	20.65	20.39	21.50
3GPP Rel 6	HSUPA Subtest-6	21.57	21.62	21.51	22.50	22.62	22.58	22.62	23.50



Band 5 Ant1_DSIS&S												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				20450	20525	20600						
Frequency (MHz)				829	836.5	844						
10	QPSK	1	0	23.21	23.26	23.24	24	0				
10	QPSK	1	25	23.20	23.23	23.27						
10	QPSK	1	49	23.21	23.24	23.22						
10	QPSK	25	0	23.15	23.24	23.18	24	0				
10	QPSK	25	12	23.22	23.21	23.20						
10	QPSK	25	25	23.19	23.20	23.19						
10	QPSK	50	0	23.23	23.25	23.22						
10	16QAM	1	0	23.20	23.16	23.25	24	0				
10	16QAM	1	25	23.22	23.21	23.21						
10	16QAM	1	49	23.19	23.18	23.17						
10	16QAM	25	0	22.77	22.75	22.79	23.5	0.5				
10	16QAM	25	12	22.85	22.85	22.82						
10	16QAM	25	25	22.80	22.81	22.80						
10	16QAM	50	0	22.84	22.82	22.84						
10	64QAM	1	0	22.76	22.72	22.72	23.5	0.5				
10	64QAM	1	25	22.64	22.63	22.64						
10	64QAM	1	49	22.67	22.62	22.65						
10	64QAM	25	0	21.74	21.73	21.76						
10	64QAM	25	12	21.87	21.82	21.79	22.5	1.5				
10	64QAM	25	25	21.79	21.80	21.78						
10	64QAM	50	0	21.82	21.81	21.83						
Channel				20425	20525	20625						
Frequency (MHz)				826.5	836.5	846.5						
5	QPSK	1	0	23.22	23.26	23.18	24	0				
5	QPSK	1	12	23.19	23.16	23.20						
5	QPSK	1	24	23.21	23.23	23.12						
5	QPSK	12	0	23.09	23.24	23.12	24	0				
5	QPSK	12	7	23.20	23.21	23.19						
5	QPSK	12	13	23.19	23.18	23.16						
5	QPSK	25	0	23.19	23.22	23.18						
5	16QAM	1	0	23.25	23.22	23.22	24	0				
5	16QAM	1	12	23.25	23.14	23.12						
5	16QAM	1	24	23.18	23.24	23.11						
5	16QAM	12	0	22.72	22.72	22.71	23.5	0.5				
5	16QAM	12	7	22.83	22.80	22.79						
5	16QAM	12	13	22.80	22.76	22.74						
5	16QAM	25	0	22.82	22.79	22.80						
5	64QAM	1	0	22.72	22.75	22.70	23.5	0.5				
5	64QAM	1	12	22.59	22.61	22.78						
5	64QAM	1	24	22.78	22.76	22.70						
5	64QAM	12	0	21.77	21.74	21.72						
5	64QAM	12	7	21.82	21.82	21.76	22.5	1.5				
5	64QAM	12	13	21.79	21.82	21.78						
5	64QAM	25	0	21.79	21.76	21.77						
Channel				20415	20525	20635						
Frequency (MHz)				825.5	836.5	847.5						
3	QPSK	1	0	23.22	23.27	23.18	24	0				
3	QPSK	1	8	23.26	23.25	23.24						
3	QPSK	1	14	23.20	23.17	23.20						
3	QPSK	8	0	23.20	23.24	23.14	24	0				
3	QPSK	8	4	23.12	23.22	23.17						
3	QPSK	8	7	23.22	23.19	23.21						
3	QPSK	15	0	23.19	23.22	23.13						
3	16QAM	1	0	23.20	23.18	23.17	24	0				
3	16QAM	1	8	23.26	23.20	23.25						
3	16QAM	1	14	23.17	23.15	23.19						
3	16QAM	8	0	22.76	22.69	22.68	23.5	0.5				
3	16QAM	8	4	22.80	22.81	22.79						
3	16QAM	8	7	22.77	22.74	22.71						
3	16QAM	15	0	22.76	22.75	22.68						
3	64QAM	1	0	22.77	22.78	22.77	23.5	0.5				
3	64QAM	1	8	22.89	22.87	22.82						
3	64QAM	1	14	22.78	22.78	22.79						
3	64QAM	8	0	21.84	21.74	21.75						
3	64QAM	8	4	21.79	21.77	21.78	22.5	1.5				
3	64QAM	8	7	21.84	21.80	21.79						
3	64QAM	15	0	21.79	21.77	21.69						
Channel				20407	20525	20643						
Frequency (MHz)				824.7	836.5	848.3						
1.4	QPSK	1	0	23.18	23.26	23.25	24	0				
1.4	QPSK	1	3	23.23	23.21	23.19						
1.4	QPSK	1	5	23.20	23.15	23.14						
1.4	QPSK	3	0	23.25	23.26	23.20	24	0				
1.4	QPSK	3	1	23.20	23.23	23.20						
1.4	QPSK	3	3	23.22	23.19	23.21						
1.4	QPSK	6	0	23.20	23.24	23.15						
1.4	16QAM	1	0	23.22	23.17	23.24	24	0				
1.4	16QAM	1	3	23.17	23.18	23.25						
1.4	16QAM	1	5	23.19	23.16	23.18						
1.4	16QAM	3	0	23.22	23.14	23.19	24	0				
1.4	16QAM	3	1	23.16	23.24	23.18						
1.4	16QAM	3	3	23.17	23.15	23.18						
1.4	16QAM	6	0	22.75	22.75	22.75						
1.4	64QAM	1	0	22.72	22.68	22.65	23.5	0.5				
1.4	64QAM	1	3	22.73	22.75	22.76						
1.4	64QAM	1	5	22.71	22.69	22.70						
1.4	64QAM	3	0	22.64	22.58	22.64						
1.4	64QAM	3	1	22.70	22.62	22.69	22.5	1.5				
1.4	64QAM	3	3	22.62	22.66	22.62						
Channel				20407	20525	20643						
Frequency (MHz)				824.7	836.5	848.3						
1.4	QPSK	1	0	23.21	23.26	23.09	24	0				
1.4	QPSK	1	3	23.05	22.97	22.99						
1.4	QPSK	1	5	23.21	22.98	23.18						
1.4	QPSK	3	0	23.09	23.24	23.20	24	0				
1.4	QPSK	3	1	23.21	23.10	23.09						
1.4	QPSK	3	3	23.18	23.21	23.20						
1.4	QPSK	6	0	23.03	23.23	22.91						
1.4	16QAM	1	0	23.19	22.96	23.17	24	0				
1.4	16QAM	1	3	23.20	23.16	23.07						
1.4	16QAM	1	5	23.12	23.08	23.20						
1.4	16QAM	3	0	23.15	23.24	22.91	23.5	0.5				
1.4	16QAM	3	1	23.17	23.19	23.21						
1.4	16QAM	3	3	23.16	23.18	23.13						
1.4	16QAM	6	0	22.76	22.72	22.63						
1.4	64QAM	1	0	22.62	22.75	22.70	23.5	0.5				
1.4	64QAM	1	3	22.58	22.57	22.62						
1.4	64QAM	1	5	22.57	22.59	22.53						
1.4	64QAM	3	0	21.73	21.84	21.80						
1.4	64QAM	3	1	21.93	21.80	22.00	22.5	1.5				
1.4	64QAM	3	3	21.76	21.88	21.74						
Channel				26705	26865	27033						
Frequency (MHz)				814.7	831.5	848.3						
15	QPSK	1	0	23.21	23.26	23.20	24	0				
15	QPSK	1	37	23.19	23.22	23.20						
15	QPSK	1	74	23.22	23.20	23.12						
15	QPSK	36	0	23.16	23.28	23.18	24	0				
15	QPSK	36	20	23.17	23.27	23.20						
15	QPSK	36	39	23.21	23.23	23.20						
15	QPSK	75	0	23.21	23.23	23.16						
15	16QAM	1	0	23.19	23.22	23.22	24	0				
15	16QAM	1	37	23.21	23.23	23.25						
15	16QAM	1	74	23.27	23.16	23.11						
15	16QAM	36	0	22.73	22.71	22.73	23.5	0.5				
15	16QAM	36	20	22.77	22.70	22.80						
15	16QAM	36	39	22.71	22.71	22.76						
15	16QAM	75	0	22.76	22.69	22.79						
15	64QAM	1	0	22.73	22.78	22.74	23.5	0.5				
15	64QAM	1	37	22.82	22.75	22.78						
15	64QAM	1	74	22.83	22.70	22.59						
15	64QAM	36	0	21.90	21.88	21.91						
15	64QAM	36	20	21.95	21.86	22.00	22.5	1.5				
15	64QAM	36	39	21.89	21.92	21.93						
15	64QAM	75	0	21.96	21.84	21.99						
Channel				26740	26865	26990						
Frequency (MHz)				819	831.5	844						
10	QPSK	1	0	23.23	23.25	23.21	24	0				
10	QPSK	1	25	23.20	23.18	23.15						
10	QPSK	1	49	23.21	23.20	23.14						
10	QPSK	25	0	23.17	23.24	23.22	24	0				
10	QPSK	25	12	23.21	23.19	23.20						
10	QPSK	25	25	23.23	23.22	23.18						
10	QPSK	50	0	23.20	23.23	23.18						
10	16QAM	1	0	23.21	23.17	23.14	24	0				
10	16QAM	1	25	23.18	23.15	23.13						
10	16QAM	1	49	23.13	23.16	23.12						
10	16QAM	25	0	22.76	22.73	22.69	23.5	0.5				
10	16QAM	25	12	22.84	22.72	22.71						
10	16QAM	25	25	22.79	22.77	22.73						
10	16QAM	50	0	22.79	22.72	22.71						
10	64QAM	1	0	22.73								



		WCDMA II Ant2_DS13&5			WCDMA IV Ant2_DS13&5				
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938	1537	1638	1738		
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	AMR 12.2Kbps	20.97	21.04	20.98	22.00	21.30	21.45	21.42	22.50
3GPP Rel 99	RMC 12.2Kbps	20.98	21.05	21.00	22.00	21.32	21.46	21.44	22.50
3GPP Rel 6	HSDPA Subtest-1	19.87	19.97	19.98	21.00	20.79	20.78	20.77	21.50
3GPP Rel 6	HSDPA Subtest-2	19.95	20.00	19.92	21.00	20.79	20.76	20.76	21.50
3GPP Rel 6	HSDPA Subtest-3	19.43	19.47	19.38	20.50	20.28	20.30	20.32	21.00
3GPP Rel 6	HSDPA Subtest-4	19.42	19.44	19.40	20.50	20.38	20.33	20.31	21.00
3GPP Rel 6	DC-HSDPA Subtest-1	19.87	20.05	20.02	21.00	20.86	20.79	20.81	21.50
3GPP Rel 6	DC-HSDPA Subtest-2	20.02	20.08	19.84	21.00	20.69	20.66	20.80	21.50
3GPP Rel 6	DC-HSDPA Subtest-3	19.38	19.39	19.37	20.50	20.23	20.34	20.28	21.00
3GPP Rel 6	DC-HSDPA Subtest-4	19.36	19.44	19.41	20.50	20.44	20.27	20.39	21.00
3GPP Rel 6	HSUPA Subtest-1	19.90	20.02	19.87	21.00	20.76	20.81	20.74	21.50
3GPP Rel 6	HSUPA Subtest-2	17.95	18.02	17.89	19.00	18.82	18.79	18.73	19.50
3GPP Rel 6	HSUPA Subtest-3	18.91	18.99	18.89	20.00	19.65	19.80	19.78	20.50
3GPP Rel 6	HSUPA Subtest-4	17.99	18.01	17.87	19.00	18.76	18.83	18.78	19.50
3GPP Rel 6	HSUPA Subtest-5	20.00	20.03	19.90	21.00	20.80	20.77	20.75	21.50



Band 2 Ant2_DS13&5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				18700	18900	19100				
Frequency (MHz)				1870	1890	1910				
20	QPSK	1	0	21.82	21.82	21.82				
20	QPSK	1	49	21.52	21.62	21.44		22.5	0	
20	QPSK	1	99	21.35	21.38	21.39				
20	QPSK	50	0	21.58	21.69	21.50				
20	QPSK	50	24	21.59	21.58	21.68		22.5	0	
20	QPSK	50	50	21.60	21.63	21.62				
20	QPSK	100	0	21.57	21.65	21.64				
20	16QAM	1	0	21.65	21.59	21.59				
20	16QAM	1	49	21.48	21.69	21.59		22.5	0	
20	16QAM	1	99	21.57	21.64	21.57				
20	16QAM	50	0	21.71	21.67	21.52				
20	16QAM	50	24	21.71	21.62	21.70		22.5	0	
20	16QAM	50	50	21.60	21.64	21.56				
20	16QAM	100	0	21.59	21.50	21.65				
20	64QAM	1	0	21.68	21.70	21.61				
20	64QAM	1	49	21.70	21.71	21.52		22.5	0	
20	64QAM	1	99	21.62	21.71	21.66				
20	64QAM	50	0	21.66	21.68	21.60				
20	64QAM	50	24	21.74	21.48	21.66		22.5	0	
20	64QAM	50	50	21.50	21.61	21.59				
20	64QAM	100	0	21.64	21.57	21.65				
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1857.5	1880	1902.5				
15	QPSK	1	0	21.67	21.73	21.71				
15	QPSK	1	37	21.54	21.69	21.53		22.5	0	
15	QPSK	1	74	21.69	21.69	21.62				
15	QPSK	36	0	21.71	21.72	21.65				
15	QPSK	36	20	21.60	21.62	21.70		22.5	0	
15	QPSK	36	39	21.59	21.59	21.67				
15	QPSK	75	0	21.63	21.69	21.66				
15	16QAM	1	0	21.68	21.68	21.56				
15	16QAM	1	37	21.57	21.57	21.56		22.5	0	
15	16QAM	1	74	21.68	21.70	21.71				
15	16QAM	36	0	21.71	21.64	21.65				
15	16QAM	36	20	21.59	21.67	21.66		22.5	0	
15	16QAM	36	39	21.70	21.70	21.65				
15	16QAM	75	0	21.71	21.71	21.70				
15	64QAM	1	0	21.64	21.64	21.55				
15	64QAM	1	37	21.56	21.56	21.68		22.5	0	
15	64QAM	1	74	21.71	21.57	21.62				
15	64QAM	36	0	21.64	21.67	21.62				
15	64QAM	36	20	21.63	21.63	21.56		22.5	0	
15	64QAM	36	39	21.52	21.52	21.65				
15	64QAM	75	0	21.64	21.64	21.60				
Channel				18950	18900	19150	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1855	1880	1905				
10	QPSK	1	0	21.54	21.71	21.62				
10	QPSK	1	25	21.58	21.57	21.66		22.5	0	
10	QPSK	1	49	21.49	21.66	21.59				
10	QPSK	25	0	21.58	21.67	21.62				
10	QPSK	25	12	21.64	21.53	21.63		22.5	0	
10	QPSK	25	25	21.57	21.60	21.54				
10	QPSK	50	0	21.62	21.65	21.59				
10	16QAM	1	0	21.64	21.65	21.62				
10	16QAM	1	25	21.62	21.50	21.39		22.5	0	
10	16QAM	1	49	21.55	21.35	21.45				
10	16QAM	25	0	21.62	21.66	21.47				
10	16QAM	25	12	21.60	21.71	21.70		22.5	0	
10	16QAM	25	25	21.61	21.65	21.63				
10	16QAM	50	0	21.60	21.64	21.57				
10	64QAM	1	0	21.67	21.54	21.65		22.5	0	
10	64QAM	1	25	21.64	21.67	21.54				
10	64QAM	1	49	21.67	21.61	21.67				
10	64QAM	25	0	21.54	21.66	21.62				
10	64QAM	25	12	21.68	21.60	21.62		22.5	0	
10	64QAM	25	25	21.61	21.62	21.55				
10	64QAM	50	0	21.65	21.59	21.53				
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1852.5	1880	1907.5				
5	QPSK	1	0	21.73	21.74	21.67				
5	QPSK	1	12	21.68	21.69	21.66		22.5	0	
5	QPSK	1	24	21.67	21.61	21.59				
5	QPSK	12	0	21.70	21.72	21.70				
5	QPSK	12	7	21.69	21.64	21.66		22.5	0	
5	QPSK	12	13	21.67	21.69	21.50				
5	QPSK	25	0	21.62	21.68	21.63				
5	16QAM	1	0	21.67	21.71	21.57				
5	16QAM	1	12	21.65	21.68	21.55		22.5	0	
5	16QAM	1	24	21.65	21.65	21.48				
5	16QAM	12	0	21.50	21.71	21.56				
5	16QAM	12	7	21.61	21.61	21.53		22.5	0	
5	16QAM	12	13	21.54	21.52	21.67				
5	16QAM	25	0	21.62	21.65	21.65				
5	64QAM	1	0	21.48	21.67	21.68				
5	64QAM	1	12	21.57	21.71	21.70		22.5	0	
5	64QAM	1	24	21.64	21.63	21.62				
5	64QAM	12	0	21.64	21.59	21.66				
5	64QAM	12	7	21.67	21.67	21.62		22.5	0	
5	64QAM	12	13	21.62	21.51	21.63				
5	64QAM	25	0	21.65	21.55	21.61				
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1851.5	1880	1908.5				
3	QPSK	1	0	21.60	21.71	21.62				
3	QPSK	1	8	21.70	21.54	21.63		22.5	0	
3	QPSK	1	14	21.60	21.58	21.57				
3	QPSK	8	0	21.62	21.68	21.61				
3	QPSK	8	4	21.64	21.57	21.56		22.5	0	
3	QPSK	8	7	21.56	21.54	21.53				
3	QPSK	15	0	21.60	21.63	21.57				
3	16QAM	1	0	21.60	21.63	21.65				
3	16QAM	1	8	21.70	21.52	21.65		22.5	0	
3	16QAM	1	14	21.56	21.84	21.55				
3	16QAM	8	0	21.48	21.61	21.53				
3	16QAM	8	4	21.61	21.66	21.56		22.5	0	
3	16QAM	8	7	21.58	21.52	21.50				
3	16QAM	15	0	21.54	21.69	21.63				
3	64QAM	1	0	21.51	21.70	21.66				
3	64QAM	1	8	21.58	21.56	21.49		22.5	0	
3	64QAM	1	14	21.65	21.69	21.53				
3	64QAM	8	0	21.63	21.69	21.62				
3	64QAM	8	4	21.67	21.65	21.55		22.5	0	
3	64QAM	8	7	21.60	21.57	21.60				
3	64QAM	15	0	21.59	21.61	21.59				
Channel				18907	18900	19183	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				1890.7	1890	1903.3				
1.4	QPSK	1	0	21.68	21.72	21.67				
1.4	QPSK	1	3	21.62	21.66	21.64		22.5	0	
1.4	QPSK	1	5	21.69	21.66	21.47				
1.4	QPSK	3	0	21.67	21.70	21.60				
1.4	QPSK	3	1	21.45	21.56	21.50				
1.4	QPSK	3	3	21.61	21.64	21.50		22.5	0	
1.4	QPSK	6	0	21.59	21.68	21.60				
1.4	16QAM	1	0	21.66	21.68	21.58				
1.4	16QAM	1	3	21.68	21.63	21.54		22.5	0	
1.4	16QAM	1	5	21.64	21.66	21.68				
1.4	16QAM	3	0	21.60	21.71	21.58				
1.4	16QAM	3	1	21.64	21.65	21.63		22.5	0	
1.4	16QAM	3	3	21.65	21.65	21.59				
1.4	16QAM	6	0	21.59	21.71	21.57		22.5	0	
1.4	64QAM	1	0	21.57	21.60	21.67				
1.4	64QAM	1	3	21.52	21.53	21.59		22.5	0	
1.4	64QAM	1	5	21.70	21.63	21.45				
1.4	64QAM	3	0	21.61	21.70	21.51				
1.4	64QAM	3	1	21.67	21.59	21.65		22.5	0	
1.4	64QAM	3	3	21.62	21.55	21.55				
1.4	64QAM	6	0	21.51	21.70	21.48		22.5	0	

Band 2 Ant2_DS13&5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20050	20175	20300				
Frequency (MHz)				1720	1725	1730				
20	QPSK	1	0	21.18	21.29	21.49				
20	QPSK	1	49	21.80	21.96	21.82		22.5	0	
20	QPSK	1	99	21.88	21.83	21.81				
20	QPSK	50	0	21.92	21.98	21.78				
20	QPSK	50	24	21.86	21.95	21.87		22.5	0	
20	QPSK	50	50	21.86	21.82	21.79				
20	QPSK	100	0	21.88	21.95	21.85				
20	16QAM	1	0	21.96	21.93	21.91				
20	16QAM	1								



Band 7 Ant2_DSIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20850	21100	21350				
Frequency (MHz)										
20	QPSK	1	0	20.19	20.35	20.16				
20	QPSK	1	49	20.18	20.35	20.24	20.5	0		
20	QPSK	1	99	20.28	20.35	19.91				
20	QPSK	50	0	20.15	20.33	20.08				
20	QPSK	50	24	20.31	20.01	20.14	20.5	0		
20	QPSK	50	50	20.21	20.13	20.24				
20	QPSK	100	0	20.18	20.31	20.20				
20	16QAM	1	0	20.28	20.20	20.33				
20	16QAM	1	49	20.28	20.38	20.28	20.5	0		
20	16QAM	1	99	20.26	20.38	20.28				
20	16QAM	50	0	20.14	20.16	20.31				
20	16QAM	50	24	20.27	20.21	20.19	20.5	0		
20	16QAM	50	50	20.01	20.18	20.03				
20	16QAM	100	0	20.18	20.03	20.31				
20	64QAM	1	0	20.03	20.14	20.12				
20	64QAM	1	49	20.27	20.25	20.31	20.5	0		
20	64QAM	1	99	20.13	20.19	20.10				
20	64QAM	50	0	20.15	20.19	20.32				
20	64QAM	50	24	20.16	20.04	20.16	20.5	0		
20	64QAM	50	50	20.29	20.21	20.16				
20	64QAM	100	0	20.25	20.03	20.07				
Channel				20825	21100	21375				
Frequency (MHz)										
15	QPSK	1	0	20.19	20.23	20.29				
15	QPSK	1	37	20.28	20.12	20.28	20.5	0		
15	QPSK	1	74	20.19	20.23	20.24				
15	QPSK	36	0	20.20	20.34	20.14				
15	QPSK	36	20	20.17	20.16	20.09	20.5	0		
15	QPSK	36	39	20.13	20.15	20.21				
15	QPSK	75	0	20.30	20.30	20.26				
15	16QAM	1	0	20.33	20.29	20.21				
15	16QAM	1	37	20.18	20.32	20.23	20.5	0		
15	16QAM	1	74	20.26	20.26	20.08				
15	16QAM	36	0	20.05	20.09	20.07				
15	16QAM	36	20	20.16	20.18	20.17	20.5	0		
15	16QAM	36	39	20.23	20.12	20.27				
15	16QAM	75	0	20.15	20.12	20.13				
15	64QAM	1	0	20.08	19.98	20.22				
15	64QAM	1	37	19.99	20.10	20.09	20.5	0		
15	64QAM	1	74	20.04	19.93	19.88				
15	64QAM	36	0	20.26	20.17	20.18				
15	64QAM	36	20	20.20	20.14	20.07	20.5	0		
15	64QAM	36	39	20.19	20.20	20.18				
15	64QAM	75	0	20.12	20.12	20.11				
Channel				20800	21100	21400				
Frequency (MHz)										
10	QPSK	1	0	20.27	20.30	20.21				
10	QPSK	1	25	20.34	20.22	20.20	20.5	0		
10	QPSK	1	49	20.26	20.13	20.11				
10	QPSK	25	0	20.20	20.16	20.11				
10	QPSK	25	12	20.20	20.21	20.22	20.5	0		
10	QPSK	25	25	20.03	20.36	20.06				
10	QPSK	50	0	20.17	20.25	20.11				
10	16QAM	1	0	20.15	20.24	20.17				
10	16QAM	1	25	20.08	20.17	20.10	20.5	0		
10	16QAM	1	49	20.28	20.33	20.22				
10	16QAM	25	0	20.10	20.04	20.20				
10	16QAM	25	12	20.28	20.05	20.35	20.5	0		
10	16QAM	25	25	20.20	20.05	20.00				
10	16QAM	50	0	20.12	20.13	20.21				
10	64QAM	1	0	20.01	20.01	20.26				
10	64QAM	1	25	20.30	20.24	20.23	20.5	0		
10	64QAM	1	49	20.28	20.31	20.13				
10	64QAM	25	0	20.10	20.01	20.10				
10	64QAM	25	12	20.10	20.06	20.20	20.5	0		
10	64QAM	25	25	20.12	20.11	20.11				
10	64QAM	50	0	19.94	20.00	20.25				
Channel				20775	21100	21425				
Frequency (MHz)										
5	QPSK	1	0	20.23	20.27	20.14				
5	QPSK	1	12	20.31	20.18	20.20	20.5	0		
5	QPSK	1	24	19.99	20.22	20.29				
5	QPSK	12	0	20.26	20.25	20.15				
5	QPSK	12	7	20.19	20.28	20.27	20.5	0		
5	QPSK	12	13	20.23	20.14	20.15				
5	QPSK	25	0	20.30	20.30	20.16				
5	16QAM	1	0	20.21	20.29	20.26	20.5	0		
5	16QAM	1	12	19.93	20.19	19.90				
5	16QAM	1	24	19.85	19.94	20.15				
5	16QAM	12	0	20.21	20.19	20.07	20.5	0		
5	16QAM	12	7	20.16	20.07	20.09				
5	16QAM	12	13	20.33	20.35	20.19	20.5	0		
5	16QAM	25	0	20.01	19.90	20.08				
5	64QAM	1	0	20.17	20.29	19.94				
5	64QAM	1	12	20.06	20.08	20.38	20.5	0		
5	64QAM	1	24	20.14	19.89	20.12				
5	64QAM	12	0	20.03	20.21	20.08				
5	64QAM	12	7	20.09	20.35	20.25	20.5	0		
5	64QAM	12	13	20.20	20.05	20.09				
5	64QAM	25	0	20.17	20.08	20.04				

Band 66 Ant2_DSIS										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				132072	133232	132572				
Frequency (MHz)										
20	QPSK	1	0	22.30	22.29	22.30				
20	QPSK	1	49	22.82	22.87	22.78	23.5	0		
20	QPSK	1	99	22.74	22.86	22.73				
20	QPSK	50	0	22.81	22.97	22.86				
20	QPSK	50	24	22.95	22.83	22.80	23.5	0		
20	QPSK	50	50	22.89	22.84	22.89				
20	QPSK	100	0	22.93	22.94	22.89				
20	16QAM	1	0	22.87	22.94	22.88				
20	16QAM	1	49	22.78	22.79	22.79	23.5	0		
20	16QAM	1	99	22.93	22.79	22.90				
20	16QAM	50	0	22.87	22.84	22.90				
20	16QAM	50	24	22.88	22.81	22.93	23.5	0		
20	16QAM	50	50	22.92	22.91	22.89				
20	16QAM	100	0	22.86	22.85	22.87				
20	64QAM	1	0	22.83	22.88	22.96				
20	64QAM	1	49	22.87	22.91	22.85	23.5	0		
20	64QAM	1	99	22.78	22.79	22.90				
20	64QAM	50	0	21.89	21.92	21.92				
20	64QAM	50	24	21.88	21.88	21.88	22.5	1		
20	64QAM	50	50	21.97	21.90	21.89				
20	64QAM	100	0	21.99	21.78	22.02				
Channel				132047	133232	132597				
Frequency (MHz)										
15	QPSK	1	0	22.91	22.98	22.85				
15	QPSK	1	37	22.81	22.83	22.91	23.5	0		
15	QPSK	1	74	22.97	22.80	22.90				
15	QPSK	36	0	22.89	22.98	22.84				
15	QPSK	36	20	22.92	22.93	22.84	23.5	0		
15	QPSK	36	39	22.88	22.90	22.95				
15	QPSK	75	0	22.84	22.96	22.94				
15	16QAM	1	0	22.95	22.97	22.88				
15	16QAM	1	37	22.93	22.86	22.81	23.5	0		
15	16QAM	1	74	22.84	22.88	22.76				
15	16QAM	36	0	22.77	22.95	22.80				
15	16QAM	36	20	22.93	22.98	22.85	23.5	0		
15	16QAM	36	39	22.83	22.91	22.84				
15	16QAM	75	0	22.93	22.84	22.90				
15	64QAM	1	0	22.80	22.82	22.91				
15	64QAM	1	37	22.89	22.92	22.87	23.5	0		



Band 38 Ant2_DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of data for various modulation schemes and power levels.

Band 38 Ant_DS15

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of data for various modulation schemes and power levels.

Band 41 Ant_DS13

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of data for various modulation schemes and power levels.



WCDMA II Ant3_DSI1&5

Band		WCDMA II			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	Tune-up Limit (dBm)
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	20.97	21.04	20.98	22.00
3GPP Rel 99	RMC 12.2Kbps	20.91	21.05	20.99	22.00
3GPP Rel 6	HSDPA Subtest-1	20.02	20.03	19.88	21.00
3GPP Rel 6	HSDPA Subtest-2	19.91	20.03	19.88	21.00
3GPP Rel 6	HSDPA Subtest-3	20.01	19.98	19.82	20.50
3GPP Rel 6	HSDPA Subtest-4	19.96	19.97	19.86	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.10	19.97	19.89	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.80	20.11	19.78	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.93	19.98	19.76	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.06	19.86	19.95	20.50
3GPP Rel 6	HSUPA Subtest-1	19.97	20.04	20.01	21.00
3GPP Rel 6	HSUPA Subtest-2	17.94	17.91	18.03	19.00
3GPP Rel 6	HSUPA Subtest-3	19.02	18.89	18.95	20.00
3GPP Rel 6	HSUPA Subtest-4	17.97	18.01	17.92	19.00
3GPP Rel 6	HSUPA Subtest-5	20.03	19.98	19.95	21.00



SPRINTON LAB

Band 38 Ant3_DS1&5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of frequency allocation data for Band 38 Ant3_DS1&5.

Band 38 Ant3_DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of frequency allocation data for Band 38 Ant3_DS14.

Band 41 Ant3_DS1&5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq, Power Low Middle Ch./Freq, Power Middle Ch./Freq, Power High Middle Ch./Freq, Power High Ch./Freq, Tune-up limit (dBm), MPR (dB). Contains multiple rows of frequency allocation data for Band 41 Ant3_DS1&5.

GSM850 Ant4_DS1&5

	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
GSM850 TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	28.90	28.48	28.78	29.50	19.90	19.48	19.78	20.50
GPRS 1 Tx slot	28.89	28.46	28.77	29.50	19.89	19.46	19.77	20.50
GPRS 2 Tx slots	25.71	25.76	25.76	27.00	19.71	19.76	19.76	21.00
GPRS 3 Tx slots	23.92	24.27	24.20	25.00	19.66	20.01	19.94	20.74
GPRS 4 Tx slots	23.24	23.28	23.22	24.00	20.24	20.28	20.22	21.00
EDGE 1 Tx slot	26.64	26.63	26.65	27.50	17.64	17.63	17.65	18.50
EDGE 2 Tx slots	23.81	23.72	23.98	25.00	17.81	17.72	17.98	19.00
EDGE 3 Tx slots	22.32	22.42	22.06	23.00	18.06	18.16	17.80	18.74
EDGE 4 Tx slots	21.02	20.97	21.01	22.00	18.02	17.97	18.01	19.00

WCDMA V Ant4_DS1&5

Band	WCDMA V			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	4132	4182	4233	
Rx Channel	4357	4407	4458	
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	20.99	20.98	20.95	22.00
3GPP Rel 99 AMR 12.2Kbps	21.00	21.01	20.96	22.00
3GPP Rel 6 HSDPA Subtest-1	19.98	20.03	19.92	21.00
3GPP Rel 6 HSDPA Subtest-2	20.01	19.84	19.85	21.00
3GPP Rel 6 HSDPA Subtest-3	19.55	19.36	19.49	20.50
3GPP Rel 6 HSDPA Subtest-4	19.66	19.34	19.46	20.50
3GPP Rel 8 DC-HSDPA Subtest-1	19.88	20.07	20.02	21.00
3GPP Rel 8 DC-HSDPA Subtest-2	20.03	19.80	19.78	21.00
3GPP Rel 8 DC-HSDPA Subtest-3	19.58	19.39	19.47	20.50
3GPP Rel 8 DC-HSDPA Subtest-4	19.78	19.32	19.46	20.50
3GPP Rel 6 HSUPA Subtest-1	19.96	19.93	19.97	21.00
3GPP Rel 6 HSUPA Subtest-2	18.08	17.88	18.04	19.00
3GPP Rel 6 HSUPA Subtest-3	19.06	18.94	18.96	20.00
3GPP Rel 6 HSUPA Subtest-4	18.12	17.86	17.96	19.00
3GPP Rel 6 HSUPA Subtest-5	20.01	19.89	19.96	21.00



Band 17 Ant4_DSI1&5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				23780	23790	23800				
Frequency (MHz)				709	710	711				
10	QPSK	1	0	22.62	22.73	22.60	23.5	0		
10	QPSK	1	25	22.69	22.59	22.52				
10	QPSK	1	49	22.49	22.62	22.54	23.5	0		
10	QPSK	25	0	22.57	22.70	22.56				
10	QPSK	25	12	22.68	22.57	22.64	23.5	0		
10	QPSK	25	25	22.64	22.61	22.57				
10	QPSK	50	0	22.59	22.57	22.58	23.5	0		
10	16QAM	1	0	22.58	22.85	22.65				
10	16QAM	1	25	22.58	22.71	22.62	23.5	0		
10	16QAM	1	49	22.72	22.71	22.63				
10	16QAM	25	0	22.57	22.61	22.64	23.5	0		
10	16QAM	25	12	22.66	22.64	22.69				
10	16QAM	25	25	22.71	22.63	22.72	23.5	0		
10	16QAM	50	0	22.68	22.72	22.64				
10	64QAM	1	0	22.56	22.58	22.61	23.5	0		
10	64QAM	1	25	22.62	22.58	22.59				
10	64QAM	1	49	22.71	22.66	22.69	22.5	1		
10	64QAM	25	0	21.67	21.70	21.74				
10	64QAM	25	12	21.87	21.72	21.76	22.5	1		
10	64QAM	25	25	21.82	21.86	21.83				
10	64QAM	50	0	21.69	21.73	21.67				
Channel				23755	23790	23825				
Frequency (MHz)				708.5	710	713.5				
5	QPSK	1	0	22.67	22.71	22.62	23.5	0		
5	QPSK	1	12	22.70	22.66	22.62				
5	QPSK	1	24	22.56	22.68	22.70	23.5	0		
5	QPSK	12	0	22.64	22.68	22.66				
5	QPSK	12	7	22.58	22.81	22.62	23.5	0		
5	QPSK	12	13	22.61	22.81	22.58				
5	QPSK	25	0	22.64	22.66	22.61	23.5	0		
5	16QAM	1	0	22.52	22.64	22.51				
5	16QAM	1	12	22.57	22.61	22.62	23.5	0		
5	16QAM	1	24	22.59	22.58	22.62				
5	16QAM	12	0	22.49	22.48	22.58	23.5	0		
5	16QAM	12	7	22.67	22.59	22.65				
5	16QAM	12	13	22.86	22.21	22.57	23.5	0		
5	16QAM	25	0	22.65	22.55	22.50				
5	64QAM	1	0	22.63	22.64	22.60	23.5	0		
5	64QAM	1	12	22.65	22.62	22.69				
5	64QAM	1	24	22.43	22.57	22.50	22.5	1		
5	64QAM	12	0	21.75	21.70	21.86				
5	64QAM	12	7	21.69	21.75	21.84	22.5	1		
5	64QAM	12	13	21.82	21.86	21.81				
5	64QAM	25	0	21.80	21.79	21.64				

Band 26 Ant4_DSI1&5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				26765	26865	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	20.75	20.85	20.79	21.5	0		
15	QPSK	1	37	20.69	20.76	20.74				
15	QPSK	1	74	20.74	20.83	20.70	21.5	0		
15	QPSK	36	0	20.79	20.83	20.74				
15	QPSK	36	20	20.82	20.82	20.78	21.5	0		
15	QPSK	36	39	20.73	20.76	20.70				
15	QPSK	75	0	20.80	20.81	20.72	21.5	0		
15	16QAM	1	0	20.84	20.88	20.75				
15	16QAM	1	37	20.67	20.70	20.78	21.5	0		
15	16QAM	1	74	20.82	20.74	20.83				
15	16QAM	36	0	20.61	20.69	20.63	21.5	0		
15	16QAM	36	20	20.77	20.76	20.70				
15	16QAM	36	39	20.63	20.75	20.72	21.5	0		
15	16QAM	75	0	20.73	20.75	20.67				
15	64QAM	1	0	20.70	20.75	20.73	21.5	0		
15	64QAM	1	37	20.76	20.58	20.67				
15	64QAM	1	74	20.77	20.79	20.69	21.5	0		
15	64QAM	36	0	20.71	20.73	20.67				
15	64QAM	36	20	20.73	20.71	20.71	21.5	0		
15	64QAM	36	39	20.75	20.74	20.75				
15	64QAM	75	0	20.80	20.66	20.66				
Channel				26740	26865	26990				
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	20.79	20.83	20.81	21.5	0		
10	QPSK	1	25	20.73	20.79	20.67				
10	QPSK	1	49	20.78	20.77	20.73	21.5	0		
10	QPSK	25	0	20.79	20.81	20.75				
10	QPSK	25	12	20.69	20.79	20.72	21.5	0		
10	QPSK	25	25	20.77	20.77	20.76				
10	QPSK	50	0	20.72	20.78	20.68	21.5	0		
10	16QAM	1	0	20.74	20.75	20.74				
10	16QAM	1	25	20.70	20.77	20.73	21.5	0		
10	16QAM	1	49	20.76	20.68	20.68				
10	16QAM	25	0	20.77	20.65	20.63	21.5	0		
10	16QAM	25	12	20.81	20.80	20.65				
10	16QAM	25	25	20.64	20.71	20.63	21.5	0		
10	16QAM	50	0	20.81	20.73	20.67				
10	64QAM	1	0	20.79	20.82	20.66	21.5	0		
10	64QAM	1	25	20.53	20.71	20.69				
10	64QAM	1	49	20.64	20.64	20.36	21.5	0		
10	64QAM	25	0	20.60	20.82	20.73				
10	64QAM	25	12	20.73	20.87	20.74	21.5	0		
10	64QAM	25	25	20.66	20.77	20.67				
10	64QAM	50	0	20.78	20.77	20.56				
Channel				26715	26865	27015				
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	20.75	20.84	20.79	21.5	0		
5	QPSK	1	12	20.72	20.67	20.74				
5	QPSK	1	24	20.78	20.76	20.65	21.5	0		
5	QPSK	12	0	20.72	20.82	20.74				
5	QPSK	12	7	20.77	20.67	20.62	21.5	0		
5	QPSK	12	13	20.81	20.69	20.81				
5	QPSK	25	0	20.76	20.81	20.67	21.5	0		
5	16QAM	1	0	20.75	20.74	20.80				
5	16QAM	1	12	20.64	20.67	20.82	21.5	0		
5	16QAM	1	24	20.80	20.67	20.78				
5	16QAM	12	0	20.69	20.76	20.66	21.5	0		
5	16QAM	12	7	20.77	20.68	20.58				
5	16QAM	12	13	20.59	20.72	20.53	21.5	0		
5	16QAM	25	0	20.77	20.65	20.79				
5	64QAM	1	0	20.75	20.77	20.70	21.5	0		
5	64QAM	1	12	20.64	20.61	20.60				
5	64QAM	1	24	20.65	20.52	20.38	21.5	0		
5	64QAM	12	0	20.64	20.81	20.71				
5	64QAM	12	7	20.82	20.80	20.65	21.5	0		
5	64QAM	12	13	20.67	20.77	20.73				
5	64QAM	25	0	20.80	20.65	20.64				
Channel				26705	26865	27025				
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	20.74	20.84	20.68	21.5	0		
3	QPSK	1	8	20.74	20.70	20.81				
3	QPSK	1	14	20.80	20.77	20.66	21.5	0		
3	QPSK	8	0	20.72	20.83	20.72				
3	QPSK	8	4	20.80	20.69	20.54	21.5	0		
3	QPSK	8	7	20.76	20.77	20.78				
3	QPSK	15	0	20.78	20.80	20.59	21.5	0		
3	16QAM	1	0	20.68	20.74	20.73				
3	16QAM	1	8	20.62	20.63	20.76	21.5	0		
3	16QAM	1	14	20.74	20.76	20.75				
3	16QAM	8	0	20.73	20.77	20.75	21.5	0		
3	16QAM	8	4	20.83	20.76	20.67				
3	16QAM	8	7	20.53	20.52	20.60	21.5	0		
3	16QAM	15	0	20.77	20.63	20.80				
3	64QAM	1	0	20.73	20.73	20.81	21.5	0		
3	64QAM	1	8	20.74	20.71	20.54				
3	64QAM	1	14	20.58	20.43	20.49	21.5	0		
3	64QAM	8	0	20.52	20.79	20.75				
3	64QAM	8	4	20.81	20.51	20.79	21.5	0		
3	64QAM	8	7	20.63	20.80	20.67				
3	64QAM	15	0	20.78	20.76	20.67				
Channel				26697	26865	27033				
Frequency (MHz)				814.7	831.5					

Band 42 Ant6_DS1&5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	16.83	17.29	16.57	18.5	0	
20	QPSK	1	49	16.81	17.09	16.51			
20	QPSK	1	99	16.85	17.13	16.51			
20	QPSK	50	0	16.83	17.20	16.54	18.5	0	
20	QPSK	50	24	16.73	17.18	16.54			
20	QPSK	50	50	16.85	17.13	16.57			
20	QPSK	100	0	16.86	17.13	16.59	18.5	0	
20	16QAM	1	0	16.96	17.28	16.74			
20	16QAM	1	49	16.95	17.19	16.67			
20	16QAM	1	99	16.97	17.13	16.64	18.5	0	
20	16QAM	50	0	16.85	17.18	16.54			
20	16QAM	50	24	16.93	17.16	16.53			
20	16QAM	50	50	16.86	17.12	16.56	18.5	0	
20	16QAM	100	0	16.88	17.14	16.59			
20	64QAM	1	0	16.56	17.13	16.63			
20	64QAM	1	49	16.53	17.12	16.61	18.5	0	
20	64QAM	1	99	16.57	17.11	16.60			
20	64QAM	50	0	16.82	17.11	16.88			
20	64QAM	50	24	16.86	17.10	16.86	18.5	0	
20	64QAM	50	50	16.78	17.06	16.56			
20	64QAM	100	0	16.95	17.18	16.63			
Channel				42195	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	16.71	17.22	16.68	18.5	0	
15	QPSK	1	37	16.80	17.06	16.64			
15	QPSK	1	74	16.91	17.16	16.56			
15	QPSK	36	0	16.85	17.22	16.59	18.5	0	
15	QPSK	36	20	16.82	17.16	16.67			
15	QPSK	36	39	16.97	17.11	16.68			
15	QPSK	75	0	16.79	17.03	16.66	18.5	0	
15	16QAM	1	0	17.00	17.26	16.64			
15	16QAM	1	37	17.07	17.19	16.60			
15	16QAM	1	74	17.03	17.19	16.75	18.5	0	
15	16QAM	36	0	16.89	17.21	16.65			
15	16QAM	36	20	16.83	17.26	16.57			
15	16QAM	36	39	16.80	17.11	16.66	18.5	0	
15	16QAM	75	0	17.00	17.17	16.58			
15	64QAM	1	0	16.85	17.23	16.54			
15	64QAM	1	37	16.83	17.09	16.57	18.5	0	
15	64QAM	1	74	16.85	17.08	16.72			
15	64QAM	36	0	16.89	17.20	16.89			
15	64QAM	36	20	16.76	17.13	16.86	18.5	0	
15	64QAM	36	39	16.67	17.02	16.66			
15	64QAM	75	0	16.85	17.26	16.68			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	16.78	17.23	16.54	18.5	0	
10	QPSK	1	25	16.86	16.98	16.65			
10	QPSK	1	49	16.79	17.24	16.66			
10	QPSK	25	0	16.92	17.18	16.50	18.5	0	
10	QPSK	25	12	16.68	17.18	16.52			
10	QPSK	25	25	16.88	17.07	16.75			
10	QPSK	50	0	16.85	17.12	16.68	18.5	0	
10	16QAM	1	0	17.04	17.25	16.80			
10	16QAM	1	25	16.96	17.28	16.86			
10	16QAM	1	49	17.01	17.08	16.53	18.5	0	
10	16QAM	25	0	16.87	17.26	16.56			
10	16QAM	25	12	17.04	17.23	16.60			
10	16QAM	25	25	16.78	17.21	16.62	18.5	0	
10	16QAM	50	0	16.81	17.05	16.66			
10	64QAM	1	0	16.52	17.12	16.57			
10	64QAM	1	25	16.57	17.20	16.69	18.5	0	
10	64QAM	1	49	16.59	17.05	16.58			
10	64QAM	25	0	16.80	17.23	16.85			
10	64QAM	25	12	16.75	17.04	16.87	18.5	0	
10	64QAM	25	25	16.68	16.99	16.54			
10	64QAM	50	0	16.96	17.16	16.59			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	16.94	17.27	16.69	18.5	0	
5	QPSK	1	12	16.92	17.11	16.62			
5	QPSK	1	24	16.75	17.18	16.76			
5	QPSK	12	0	16.73	17.27	16.54	18.5	0	
5	QPSK	12	7	16.70	17.13	16.51			
5	QPSK	12	13	16.91	17.13	16.51			
5	QPSK	25	0	16.83	17.18	16.61	18.5	0	
5	16QAM	1	0	16.99	17.21	16.85			
5	16QAM	1	12	16.94	17.17	16.63			
5	16QAM	1	24	17.00	17.22	16.65	18.5	0	
5	16QAM	12	0	16.85	17.15	16.77			
5	16QAM	12	7	17.01	17.07	16.59			
5	16QAM	12	13	16.87	17.19	16.56	18.5	0	
5	16QAM	25	0	16.93	17.09	16.62			
5	64QAM	1	0	16.61	17.03	16.63			
5	64QAM	1	12	16.75	17.09	16.68	18.5	0	
5	64QAM	1	24	16.57	17.06	16.63			
5	64QAM	12	0	16.94	17.19	16.91			
5	64QAM	12	7	16.91	17.07	16.81	18.5	0	
5	64QAM	12	13	16.83	16.96	16.62			
5	64QAM	25	0	16.90	17.16	16.54			

Band 42 Ant6_DS13									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.20	20.31	20.15	21.5	0	
20	QPSK	1	49	19.87	20.02	20.00			
20	QPSK	1	99	20.08	20.11	19.91			
20	QPSK	50	0	20.01	20.20	20.15	21.5	0	
20	QPSK	50	24	19.91	20.09	20.04			
20	QPSK	50	50	20.00	20.09	19.99			
20	QPSK	100	0	20.04	20.18	20.12	21.5	0	
20	16QAM	1	0	20.18	20.18	20.05			
20	16QAM	1	49	19.93	20.07	20.06			
20	16QAM	1	99	20.21	20.20	20.19	21.5	0	
20	16QAM	50	0	19.97	20.12	20.11			
20	16QAM	50	24	20.14	20.20	20.00			
20	16QAM	50	50	20.16	20.24	20.04	21.5	0	
20	16QAM	100	0	20.06	20.14	20.06			
20	64QAM	1	0	19.95	20.07	19.89			
20	64QAM	1	49	20.10	20.19	20.05	21.5	0	
20	64QAM	1	99	19.86	20.01	20.00			
20	64QAM	50	0	19.99	20.04	20.04			
20	64QAM	50	24	20.17	20.18	20.04	21.5	0	
20	64QAM	50	50	20.12	20.10	20.07			
20	64QAM	100	0	19.97	20.08	19.99			
Channel				42195	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.08	20.11	19.99	21.5	0	
15	QPSK	1	37	19.79	19.77	19.75			
15	QPSK	1	74	19.95	19.95	19.71			
15	QPSK	36	0	19.80	19.99	19.88	21.5	0	
15	QPSK	36	20	19.75	20.00	19.88			
15	QPSK	36	39	19.90	19.87	19.81			
15	QPSK	75	0	19.91	20.05	19.88	21.5	0	
15	16QAM	1	0	20.05	19.88	19.92			
15	16QAM	1	37	19.71	19.98	19.81			
15	16QAM	1	74	19.96	19.97	19.98	21.5	0	
15	16QAM	36	0	19.87	19.82	20.01			
15	16QAM	36	20	19.85	19.98	19.82			
15	16QAM	36	39	20.04	20.00	19.95	21.5	0	
15	16QAM	75	0	19.87	20.02	19.77			
15	64QAM	1	0	19.85	19.75	19.69			
15	64QAM	1	37	19.88	20.01	19.94	21.5	0	
15	64QAM	1	74	19.88	19.87	19.76			
15	64QAM	36	0	19.69	19.72	19.91			
15	64QAM	36	20	19.88	20.02	19.91	21.5	0	
15	64QAM	36	39	20.04	19.82	19.93			
15	64QAM	75	0	19.83	20.00	19.87			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.09	20.21	19.88	21.5	0	
10	QPSK	1	25	19.77	19.91	19.73			
10	QPSK	1	49	19.81	19.88	19.68			
10	QPSK	25	0	19.84	20.12	19.94	21.5	0	
10	QPSK	25	12	19.62	19.80	19.77			
10	QPSK	25	25	19.76	19.96	19.83			
10	QPSK	50	0	19.94	20.08	20.00	21.5	0	
10	16QAM	1	0	19.88	19.98	19.78			
10									



Band 42 Ant12_DS11										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	20.34	20.36	20.35	20.5	0		
20	QPSK	1	49	20.19	20.23	20.20				
20	QPSK	1	99	20.21	19.87	20.13				
20	QPSK	50	0	20.29	20.34	20.27	20.5	0		
20	QPSK	50	24	20.30	20.30	20.22				
20	QPSK	50	50	20.27	20.28	20.11				
20	QPSK	100	0	20.24	20.28	20.24	20.5	0		
20	16QAM	1	0	20.00	20.30	20.31				
20	16QAM	1	49	20.21	20.21	20.23				
20	16QAM	1	99	20.21	20.29	20.08	20.5	0		
20	16QAM	50	0	20.14	20.29	20.17				
20	16QAM	50	24	20.21	20.30	20.22				
20	16QAM	50	50	20.34	20.22	20.28	20.5	0		
20	16QAM	100	0	20.20	20.14	20.18				
20	64QAM	1	0	19.89	20.08	19.99				
20	64QAM	1	49	20.03	20.21	19.84	20.5	0		
20	64QAM	1	99	19.96	20.09	19.77				
20	64QAM	50	0	20.21	20.27	20.16				
20	64QAM	50	24	20.21	20.18	20.17	20.5	0		
20	64QAM	50	50	20.21	20.17	20.22				
20	64QAM	100	0	20.28	20.29	20.27				
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	20.17	20.21	20.28	20.5	0		
15	QPSK	1	37	19.96	20.18	20.19				
15	QPSK	1	74	20.17	20.06	20.03				
15	QPSK	36	0	20.25	20.23	20.32	20.5	0		
15	QPSK	36	20	20.28	20.28	20.35				
15	QPSK	36	39	20.27	20.18	20.09				
15	QPSK	75	0	20.22	20.27	20.29	20.5	0		
15	16QAM	1	0	20.24	20.24	20.33				
15	16QAM	1	37	20.22	20.18	20.19				
15	16QAM	1	74	20.23	20.14	20.28	20.5	0		
15	16QAM	36	0	20.34	20.11	20.05				
15	16QAM	36	20	20.27	20.29	20.19				
15	16QAM	36	39	20.13	20.23	20.09	20.5	0		
15	16QAM	75	0	20.33	20.34	20.14				
15	64QAM	1	0	19.88	20.10	19.98				
15	64QAM	1	37	20.09	20.23	19.72	20.5	0		
15	64QAM	1	74	20.08	20.07	19.80				
15	64QAM	36	0	20.17	20.15	20.04				
15	64QAM	36	20	20.20	20.27	19.99	20.5	0		
15	64QAM	36	39	20.34	20.19	20.23				
15	64QAM	75	0	20.30	20.21	20.28				
Channel				42140	42590	43040				
Frequency (MHz)				3455	3500	3545				
10	QPSK	1	0	20.29	20.34	20.12	20.5	0		
10	QPSK	1	25	19.98	20.24	20.20				
10	QPSK	1	49	20.34	20.01	20.04				
10	QPSK	25	0	20.09	20.18	20.21	20.5	0		
10	QPSK	25	12	20.34	20.26	20.14				
10	QPSK	25	25	20.11	20.15	20.23				
10	QPSK	50	0	20.10	20.18	20.07	20.5	0		
10	16QAM	1	0	20.16	20.18	20.25				
10	16QAM	1	25	20.35	20.34	20.25				
10	16QAM	1	49	20.21	20.34	20.10	20.5	0		
10	16QAM	25	0	20.21	20.29	20.17				
10	16QAM	25	12	20.32	20.27	20.25				
10	16QAM	25	25	20.20	20.14	20.17	20.5	0		
10	16QAM	50	0	20.25	20.13	20.23				
10	64QAM	1	0	20.06	20.06	20.04				
10	64QAM	1	25	19.92	20.14	19.94	20.5	0		
10	64QAM	1	49	20.05	20.05	19.73				
10	64QAM	25	0	20.24	20.19	20.29				
10	64QAM	25	12	20.32	20.09	20.06	20.5	0		
10	64QAM	25	25	20.20	20.28	20.06				
10	64QAM	50	0	20.31	20.27	20.21				
Channel				42115	42590	43065				
Frequency (MHz)				3452.5	3500	3547.5				
5	QPSK	1	0	20.18	20.31	20.27	20.5	0		
5	QPSK	1	12	20.12	20.21	20.27				
5	QPSK	1	24	20.33	20.15	20.01				
5	QPSK	12	0	20.30	20.28	20.14	20.5	0		
5	QPSK	12	7	20.21	20.26	20.15				
5	QPSK	12	13	20.19	20.28	20.03				
5	QPSK	25	0	20.24	20.32	20.00	20.5	0		
5	16QAM	1	0	20.22	20.26	20.26				
5	16QAM	1	12	20.25	20.35	20.19				
5	16QAM	1	24	20.27	20.25	20.02	20.5	0		
5	16QAM	12	0	20.23	20.22	20.20				
5	16QAM	12	7	20.23	20.30	20.20				
5	16QAM	12	13	20.32	20.29	20.12	20.5	0		
5	16QAM	25	0	20.24	20.34	20.32				
5	64QAM	1	0	19.80	20.01	20.00				
5	64QAM	1	12	19.77	20.04	19.84	20.5	0		
5	64QAM	1	24	19.99	20.20	19.85				
5	64QAM	12	0	20.24	20.24	20.14				
5	64QAM	12	7	20.25	20.18	19.99	20.5	0		
5	64QAM	12	13	20.32	20.34	20.13				
5	64QAM	25	0	20.26	20.19	20.17				

Band 42 Ant12_DS13&5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	19.11	19.36	19.29	19.5	0		
20	QPSK	1	49	19.17	19.26	19.18				
20	QPSK	1	99	19.18	18.97	19.08				
20	QPSK	50	0	19.19	19.31	19.23	19.5	0		
20	QPSK	50	24	19.28	19.29	19.19				
20	QPSK	50	50	19.30	19.30	19.17				
20	QPSK	100	0	19.27	19.29	19.25	19.5	0		
20	16QAM	1	0	19.30	19.33	19.33				
20	16QAM	1	49	19.35	19.34	19.27				
20	16QAM	1	99	19.32	19.34	19.18	19.5	0		
20	16QAM	50	0	19.22	19.28	19.19				
20	16QAM	50	24	19.30	19.28	19.20				
20	16QAM	50	50	19.29	19.32	19.21	19.5	0		
20	16QAM	100	0	19.27	19.25	19.24				
20	64QAM	1	0	18.94	19.06	19.05				
20	64QAM	1	49	18.98	19.10	18.89	19.5	0		
20	64QAM	1	99	18.99	18.99	18.81				
20	64QAM	50	0	19.17	19.24	19.18				
20	64QAM	50	24	19.24	19.22	19.12	19.5	0		
20	64QAM	50	50	19.28	19.26	19.12				
20	64QAM	100	0	19.33	19.33	19.26				
Channel				42165	42590	43015				
Frequency (MHz)				3457.5	3500	3542.5				
15	QPSK	1	0	19.08	19.25	19.21	19.5	0		
15	QPSK	1	37	19.07	19.26	19.26				
15	QPSK	1	74	19.20	19.05	19.03				
15	QPSK	36	0	19.30	19.35	19.30	19.5	0		
15	QPSK	36	20	19.22	19.25	19.24				
15	QPSK	36	39	19.30	19.20	19.06				
15	QPSK	75	0	19.26	19.24	19.25	19.5	0		
15	16QAM	1	0	19.20	19.33	19.32				
15	16QAM	1	37	19.28	19.29	19.29				
15	16QAM	1	74	19.32	19.30	19.27	19.5	0		
15	16QAM	36	0	19.34	19.17	19.16				
15	16QAM	36	20	19.32	19.28	19.27				
15	16QAM	36	39	19.21	19.29	19.13	19.5	0		
15	16QAM	75	0	19.30	19.35	19.16				
15	64QAM	1	0	18.85	19.11	19.02				
15	64QAM	1	37	19.08	19.14	18.78	19.5	0		
15	64QAM	1	74	19.04	19.06	18.89				
15	64QAM	36	0	19.20	19.23	19.13				
15	64QAM	36	20	19.19	19.32	19.02	19.5	0		
15	64QAM	36	39	19.28	19.25	19.17				
15	64QAM	75	0	19.30	19.30	19.21				
Channel				42140</						



Band 7 ENDC Ant 1 DS1&4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.45	23.65	23.44	25	0
20	QPSK	1	49	23.43	23.41	23.45		
20	QPSK	1	99	23.46	23.48	23.49		
20	QPSK	50	0	22.44	22.59	22.42	24	1
20	QPSK	50	24	22.45	22.53	22.51		
20	QPSK	50	50	22.56	22.55	22.63		
20	QPSK	100	0	22.50	22.54	22.35	24	1
20	16QAM	1	0	22.53	22.57	22.54		
20	16QAM	1	49	22.52	22.51	22.49		
20	16QAM	1	99	22.56	22.55	22.48	23	2
20	16QAM	50	0	21.46	21.60	21.56		
20	16QAM	50	24	21.53	21.55	21.45		
20	16QAM	50	50	21.69	21.68	21.59	23	2
20	16QAM	100	0	21.49	21.51	21.58		
20	64QAM	1	0	21.68	21.67	21.63		
20	64QAM	1	49	21.56	21.57	21.53	22	3
20	64QAM	1	99	21.32	21.36	21.39		
20	64QAM	50	0	20.56	20.61	20.56		
20	64QAM	50	24	20.49	20.53	20.49	22	3
20	64QAM	50	50	20.41	20.43	20.49		
20	64QAM	100	0	20.69	20.61	20.56		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.49	23.63	23.49	25	0
15	QPSK	1	37	23.49	23.34	23.51		
15	QPSK	1	74	23.48	23.59	23.40		
15	QPSK	36	0	22.33	22.47	22.54	24	1
15	QPSK	36	20	22.37	22.50	22.58		
15	QPSK	36	39	22.51	22.52	22.57		
15	QPSK	75	0	22.56	22.60	22.31	24	1
15	16QAM	1	0	22.43	22.46	22.44		
15	16QAM	1	37	22.62	22.53	22.51		
15	16QAM	1	74	22.62	22.54	22.45	23	2
15	16QAM	36	0	21.45	21.53	21.44		
15	16QAM	36	20	21.56	21.44	21.37		
15	16QAM	36	39	21.74	21.57	21.57	23	2
15	16QAM	75	0	21.41	21.50	21.63		
15	64QAM	1	0	21.56	21.63	21.63		
15	64QAM	1	37	21.62	21.69	21.64	22	3
15	64QAM	1	74	21.34	21.25	21.38		
15	64QAM	36	0	20.66	20.56	20.55		
15	64QAM	36	20	20.42	20.52	20.41	22	3
15	64QAM	36	39	20.43	20.42	20.42		
15	64QAM	75	0	20.60	20.51	20.61		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.49	23.63	23.33	25	0
10	QPSK	1	25	23.50	23.35	23.49		
10	QPSK	1	49	23.45	23.58	23.48		
10	QPSK	25	0	22.54	22.58	22.38	24	1
10	QPSK	25	12	22.40	22.46	22.50		
10	QPSK	25	25	22.51	22.62	22.46		
10	QPSK	50	0	22.50	22.53	22.34	24	1
10	16QAM	1	0	22.47	22.55	22.54		
10	16QAM	1	25	22.40	22.57	22.60		
10	16QAM	1	49	22.45	22.62	22.54	23	2
10	16QAM	25	0	21.41	21.70	21.52		
10	16QAM	25	12	21.46	21.48	21.54		
10	16QAM	25	25	21.69	21.63	21.58	23	2
10	16QAM	50	0	21.58	21.62	21.60		
10	64QAM	1	0	21.56	21.67	21.52		
10	64QAM	1	25	21.60	21.66	21.50	22	3
10	64QAM	1	49	21.35	21.26	21.42		
10	64QAM	25	0	20.60	20.57	20.61		
10	64QAM	25	12	20.58	20.64	20.50	22	3
10	64QAM	25	25	20.39	20.45	20.47		
10	64QAM	50	0	20.81	20.64	20.62		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.50	23.62	23.36	25	0
5	QPSK	1	12	23.35	23.29	23.38		
5	QPSK	1	24	23.63	23.53	23.50		
5	QPSK	12	0	22.54	22.53	22.49	24	1
5	QPSK	12	7	22.52	22.60	22.63		
5	QPSK	12	13	22.79	22.78	22.76		
5	QPSK	25	0	22.66	22.75	22.38	24	1
5	16QAM	1	0	22.69	22.77	22.56		
5	16QAM	1	12	22.63	22.63	22.53		
5	16QAM	1	24	22.67	22.77	22.72	23	2
5	16QAM	12	0	21.58	21.55	21.58		
5	16QAM	12	7	21.58	21.49	21.48		
5	16QAM	12	13	21.80	21.66	21.62	23	2
5	16QAM	25	0	21.56	21.46	21.46		
5	64QAM	1	0	21.60	21.74	21.67		
5	64QAM	1	12	21.45	21.61	21.64	22	3
5	64QAM	1	24	21.42	21.31	21.50		
5	64QAM	12	0	20.52	20.54	20.51		
5	64QAM	12	7	20.56	20.48	20.48	22	3
5	64QAM	12	13	20.35	20.51	20.42		
5	64QAM	25	0	20.65	20.55	20.46		

Band 7 ENDC Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.97	24.07	24.05	25	0
20	QPSK	1	49	23.99	23.98	23.89		
20	QPSK	1	99	23.89	24.01	23.97		
20	QPSK	50	0	23.02	23.16	23.07	24	1
20	QPSK	50	24	23.06	23.14	23.06		
20	QPSK	50	50	23.12	23.13	23.09		
20	QPSK	100	0	23.03	23.06	23.05	24	1
20	16QAM	1	0	23.16	23.22	23.21		
20	16QAM	1	49	23.11	23.15	23.14		
20	16QAM	1	99	23.16	23.19	23.17	23	2
20	16QAM	50	0	22.14	22.17	22.16		
20	16QAM	50	24	22.19	22.21	22.32		
20	16QAM	50	50	22.23	22.24	22.19	23	2
20	16QAM	100	0	22.15	22.14	22.06		
20	64QAM	1	0	22.00	22.04	22.10		
20	64QAM	1	49	22.13	22.17	22.14	22	3
20	64QAM	1	99	22.30	22.06	22.13		
20	64QAM	50	0	20.98	21.16	21.11		
20	64QAM	50	24	21.03	21.17	21.13	22	3
20	64QAM	50	50	21.06	21.21	21.17		
20	64QAM	100	0	21.11	21.17	21.21		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.87	23.98	23.89	25	0
15	QPSK	1	37	23.93	23.90	24.01		
15	QPSK	1	74	23.95	23.98	23.96		
15	QPSK	36	0	22.79	23.03	22.90	24	1
15	QPSK	36	20	22.83	22.99	22.97		
15	QPSK	36	39	22.86	23.01	22.98		
15	QPSK	75	0	22.73	22.91	22.92	24	1
15	16QAM	1	0	23.07	23.10	23.10		
15	16QAM	1	37	22.97	22.91	22.86		
15	16QAM	1	74	23.05	22.94	23.00	23	2
15	16QAM	36	0	21.91	21.95	22.08		
15	16QAM	36	20	22.06	22.02	22.03		
15	16QAM	36	39	22.07	22.01	21.92	23	2
15	16QAM	75	0	22.01	22.07	21.88		
15	64QAM	1	0	21.75	21.81	21.80		
15	64QAM	1	37	21.95	21.91	21.99	22	3
15	64QAM	1	74	22.16	21.77	21.92		
15	64QAM	36	0	20.83	20.93	20.85		
15	64QAM	36	20	20.91	20.88	20.84	22	3
15	64QAM	36	39	20.89	21.05	21.02		
15	64QAM	75	0	20.96	20.93	21.08		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.99	23.86	24.04	25	0
10	QPSK	1	25	23.96	24.00	23.95		
10	QPSK	1	49	23.83	24.01	23.87		
10	QPSK	25	0	22.70	22.89	22.94	24	1
10	QPSK	25	12	22.84	23.02	22.89		
10	QPSK	25	25	22.90	22.87	22.94		
10	QPSK	50	0	22.85	22.85	22.89	24	1
10	16QAM	1	0	22.84	22.99	22.92		
10	16QAM	1	25	22.82	22.88	22.95		
10	16QAM	1	49	22.88	23.03	22.86	23	2
10	16QAM	25	0	21.94	21.95	22.02		
10	16QAM	25	12	21.91	21.90	21.98		
10	16QAM	25	25	21.89	22.03			



Band 7 ENDC Ant 1 DSI 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.78	21.81	21.73			
20	QPSK	1	49	21.52	21.49	21.47	23	0	
20	QPSK	1	99	21.45	21.42	21.47			
20	QPSK	50	0	21.49	21.57	21.54			
20	QPSK	50	24	21.52	21.52	21.51	23	0	
20	QPSK	50	50	21.49	21.55	21.44			
20	QPSK	100	0	21.42	21.58	21.52			
20	16QAM	1	0	21.57	21.39	21.54			
20	16QAM	1	49	21.52	21.32	21.57	23	0	
20	16QAM	1	99	21.55	21.41	21.41			
20	16QAM	50	0	21.48	21.53	21.41			
20	16QAM	50	24	21.39	21.45	21.34	23	0	
20	16QAM	50	50	21.32	21.52	21.43			
20	16QAM	100	0	21.41	21.43	21.55			
20	64QAM	1	0	21.53	21.61	21.47			
20	64QAM	1	49	21.45	21.73	21.54	23	0	
20	64QAM	1	99	21.52	21.55	21.45			
20	64QAM	50	0	20.61	20.58	20.61			
20	64QAM	50	24	20.55	20.59	20.61			
20	64QAM	50	50	20.56	20.53	20.62			
20	64QAM	100	0	20.50	20.54	20.56			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	21.69	21.63	21.76			
15	QPSK	1	37	21.48	21.48	21.39	23	0	
15	QPSK	1	74	21.29	21.31	21.46			
15	QPSK	36	0	21.42	21.49	21.53			
15	QPSK	36	20	21.42	21.39	21.40	23	0	
15	QPSK	36	39	21.58	21.44	21.36			
15	QPSK	75	0	21.39	21.41	21.63			
15	16QAM	1	0	21.56	21.50	21.49			
15	16QAM	1	37	21.54	21.32	21.58	23	0	
15	16QAM	1	74	21.64	21.44	21.50			
15	16QAM	36	0	21.43	21.50	21.29			
15	16QAM	36	20	21.42	21.36	21.23	23	0	
15	16QAM	36	39	21.25	21.44	21.31			
15	16QAM	75	0	21.30	21.36	21.45			
15	64QAM	1	0	21.50	21.62	21.36			
15	64QAM	1	37	21.36	21.74	21.57	23	0	
15	64QAM	1	74	21.42	21.49	21.42			
15	64QAM	36	0	20.69	20.56	20.53			
15	64QAM	36	20	20.51	20.55	20.58			
15	64QAM	36	39	20.61	20.56	20.63			
15	64QAM	75	0	20.56	20.44	20.53			
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	21.76	21.72	21.67			
10	QPSK	1	25	21.51	21.42	21.67	23	0	
10	QPSK	1	49	21.44	21.31	21.59			
10	QPSK	25	0	21.46	21.66	21.64			
10	QPSK	25	12	21.44	21.49	21.44	23	0	
10	QPSK	25	25	21.60	21.59	21.40			
10	QPSK	50	0	21.50	21.40	21.65			
10	16QAM	1	0	21.46	21.44	21.45			
10	16QAM	1	25	21.40	21.40	21.64	23	0	
10	16QAM	1	49	21.52	21.48	21.59			
10	16QAM	25	0	21.43	21.52	21.37			
10	16QAM	25	12	21.33	21.50	21.36	23	0	
10	16QAM	25	25	21.39	21.49	21.49			
10	16QAM	50	0	21.47	21.53	21.51			
10	64QAM	1	0	21.46	21.56	21.49			
10	64QAM	1	25	21.37	21.75	21.48	23	0	
10	64QAM	1	49	21.52	21.61	21.45			
10	64QAM	25	0	20.62	20.60	20.70			
10	64QAM	25	12	20.49	20.49	20.67			
10	64QAM	25	25	20.56	20.51	20.71	22	1	
10	64QAM	50	0	20.54	20.59	20.55			
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	21.56	21.61	21.57			
5	QPSK	1	12	21.49	21.51	21.55	23	0	
5	QPSK	1	24	21.35	21.46	21.48			
5	QPSK	12	0	21.43	21.58	21.49			
5	QPSK	12	7	21.59	21.49	21.62	23	0	
5	QPSK	12	13	21.55	21.52	21.50			
5	QPSK	25	0	21.45	21.37	21.69			
5	16QAM	1	0	21.54	21.41	21.80			
5	16QAM	1	12	21.54	21.27	21.53	23	0	
5	16QAM	1	24	21.44	21.51	21.49			
5	16QAM	12	0	21.48	21.63	21.42			
5	16QAM	12	7	21.32	21.49	21.27	23	0	
5	16QAM	12	13	21.31	21.52	21.54			
5	16QAM	25	0	21.35	21.44	21.58			
5	64QAM	1	0	21.54	21.68	21.45			
5	64QAM	1	12	21.55	21.66	21.48	23	0	
5	64QAM	1	24	21.48	21.52	21.42			
5	64QAM	12	0	20.53	20.53	20.50			
5	64QAM	12	7	20.46	20.48	20.61			
5	64QAM	12	13	20.67	20.52	20.51	22	1	
5	64QAM	25	0	20.52	20.65	20.55			

Band 7 ENDC Ant 5 DSI 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20850	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	14.25	14.29	14.27			
20	QPSK	1	49	14.12	14.04	14.07	15	0	
20	QPSK	1	99	14.04	14.07	14.01			
20	QPSK	50	0	14.01	14.17	14.05			
20	QPSK	50	24	13.94	14.15	14.08	15	0	
20	QPSK	50	50	14.13	14.14	14.13			
20	QPSK	100	0	14.12	14.18	14.16			
20	16QAM	1	0	14.11	14.27	14.15			
20	16QAM	1	49	14.15	14.16	14.19	15	0	
20	16QAM	1	99	14.24	14.14	14.28			
20	16QAM	50	0	14.13	14.22	14.17			
20	16QAM	50	24	14.11	14.15	14.15	15	0	
20	16QAM	50	50	14.19	14.21	14.23			
20	16QAM	100	0	14.12	14.20	14.16			
20	64QAM	1	0	14.18	13.85	14.22			
20	64QAM	1	49	14.17	13.91	14.21	15	0	
20	64QAM	1	99	13.82	13.92	13.86			
20	64QAM	50	0	13.88	14.09	13.92			
20	64QAM	50	24	13.89	14.06	13.93	15	0	
20	64QAM	50	50	14.06	14.12	14.10			
20	64QAM	100	0	14.03	14.14	14.07			
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	14.17	14.26	14.20			
15	QPSK	1	37	14.19	14.07	14.03	15	0	
15	QPSK	1	74	14.00	14.06	14.01			
15	QPSK	36	0	14.10	14.09	14.09			
15	QPSK	36	20	13.96	14.24	14.05	15	0	
15	QPSK	36	39	14.14	14.19	14.05			
15	QPSK	75	0	14.01	14.17	14.27			
15	16QAM	1	0	14.10	14.23	14.21			
15	16QAM	1	37	14.20	14.24	14.18	15	0	
15	16QAM	1	74	14.17	14.23	14.25			
15	16QAM	36	0	14.14	14.14	14.14			
15	16QAM	36	20	14.03	14.24	14.14	15	0	
15	16QAM	36	39	14.08	14.19	14.19			
15	16QAM	75	0	14.23	14.14	14.11			
15	64QAM	1	0	14.19	14.05	14.13			
15	64QAM	1	37	14.13	14.11	14.07	15	0	
15	64QAM	1	74	13.89	13.93	14.08			
15	64QAM	36	0	13.93	14.11	13.90			
15	64QAM	36	20	13.87	14.04	13.82	15	0	
15	64QAM	36	39	13.97	14.06	14.14			
15	64QAM	75	0	13.95	14.14	14.10</			

Band 7 ENDC Ant 5 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.06	23.28	23.02	24	0
20	QPSK	1	49	22.95	22.90	22.83		
20	QPSK	1	99	23.06	23.01	22.89		
20	QPSK	50	0	22.78	23.11	22.98	24	0
20	QPSK	50	24	22.85	23.09	22.98		
20	QPSK	50	50	22.98	22.95	23.07		
20	QPSK	100	0	22.90	23.10	23.06	24	0
20	16QAM	1	0	23.04	22.98	23.11		
20	16QAM	1	49	23.05	22.97	23.01		
20	16QAM	1	99	22.95	23.15	23.07	23	1
20	16QAM	50	0	21.94	22.07	21.98		
20	16QAM	50	24	22.05	22.07	22.20		
20	16QAM	50	50	22.02	22.04	22.05	23	1
20	16QAM	100	0	22.04	22.10	22.02		
20	64QAM	1	0	22.18	21.82	22.18		
20	64QAM	1	49	21.94	21.69	22.04	23	1
20	64QAM	1	99	21.70	21.85	21.74		
20	64QAM	50	0	21.07	21.11	20.95		
20	64QAM	50	24	21.05	21.18	21.00	22	2
20	64QAM	50	50	21.26	21.16	21.10		
20	64QAM	100	0	21.13	21.18	21.32		
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.98	23.10	23.14	24	0
15	QPSK	1	37	22.87	22.91	22.89		
15	QPSK	1	74	23.03	23.02	23.09		
15	QPSK	36	0	22.85	23.20	22.83	24	0
15	QPSK	36	20	23.10	23.07	22.94		
15	QPSK	36	39	23.04	23.08	23.08		
15	QPSK	75	0	22.88	23.08	22.93	24	0
15	16QAM	1	0	22.97	22.84	23.03		
15	16QAM	1	37	22.99	23.11	22.80		
15	16QAM	1	74	23.11	23.05	23.16	23	1
15	16QAM	36	0	21.74	22.02	22.04		
15	16QAM	36	20	21.97	21.97	21.93		
15	16QAM	36	39	22.05	22.10	22.11	23	1
15	16QAM	75	0	22.02	22.03	22.12		
15	64QAM	1	0	22.10	21.73	22.06		
15	64QAM	1	37	21.97	21.75	22.16	23	1
15	64QAM	1	74	21.73	22.05	21.79		
15	64QAM	36	0	21.05	21.12	21.16		
15	64QAM	36	20	21.28	21.12	20.98	22	2
15	64QAM	36	39	21.20	21.18	20.96		
15	64QAM	75	0	21.30	21.38	21.29		
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.86	23.03	22.91	24	0
10	QPSK	1	25	22.99	22.93	22.92		
10	QPSK	1	49	22.81	23.05	23.11		
10	QPSK	25	0	22.92	23.02	22.94	24	0
10	QPSK	25	12	23.09	22.95	23.10		
10	QPSK	25	25	22.85	22.85	23.04		
10	QPSK	50	0	23.02	22.89	22.98	24	0
10	16QAM	1	0	22.86	23.06	23.27		
10	16QAM	1	25	22.95	22.84	23.15		
10	16QAM	1	49	23.17	22.87	23.07	23	1
10	16QAM	25	0	21.94	21.98	21.95		
10	16QAM	25	12	21.94	21.97	22.04		
10	16QAM	25	25	22.04	22.04	22.15	23	1
10	16QAM	50	0	21.96	22.04	21.96		
10	64QAM	1	0	22.13	21.66	21.97		
10	64QAM	1	25	22.03	21.77	21.92	23	1
10	64QAM	1	49	21.71	21.90	21.79		
10	64QAM	25	0	20.98	21.06	21.01		
10	64QAM	25	12	21.22	21.24	21.13	22	2
10	64QAM	25	25	21.19	21.35	21.33		
10	64QAM	50	0	21.34	20.99	21.37		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.92	23.00	23.19	24	0
5	QPSK	1	12	22.85	22.90	22.89		
5	QPSK	1	24	22.89	23.04	23.18		
5	QPSK	12	0	23.02	23.12	22.80	24	0
5	QPSK	12	7	23.05	23.11	22.94		
5	QPSK	12	13	23.22	22.92	22.89		
5	QPSK	25	0	23.06	23.02	22.95	24	0
5	16QAM	1	0	22.94	23.05	22.90		
5	16QAM	1	12	22.93	23.09	22.98		
5	16QAM	1	24	22.93	23.11	23.14	23	1
5	16QAM	12	0	21.89	22.15	22.15		
5	16QAM	12	7	22.02	22.05	21.92		
5	16QAM	12	13	22.11	22.17	22.20	23	1
5	16QAM	25	0	21.82	21.98	22.04		
5	64QAM	1	0	21.94	21.81	22.08		
5	64QAM	1	12	22.08	21.65	21.96	23	1
5	64QAM	1	24	21.81	21.90	21.91		
5	64QAM	12	0	20.87	21.29	21.15		
5	64QAM	12	7	21.07	21.18	21.12	22	2
5	64QAM	12	13	21.36	21.16	21.26		
5	64QAM	25	0	21.41	21.06	21.12		



Uplink CA Power

Ant 2 Pull Power DS114

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	24.91	25.50	
21100	21298	QPSK	1	0	1	99	24.93	25.50	
21350	21152	QPSK	1	0	1	99	24.75	25.50	
20850	21048	QPSK	50	0	1	49	23.96	24.50	
21100	21298	QPSK	50	0	1	49	24.01	24.50	
21350	21152	QPSK	50	0	1	49	23.90	24.50	

Ant 2 DS13

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	20.15	20.50	
21100	21298	QPSK	1	0	1	99	20.33	20.50	
21350	21152	QPSK	1	0	1	99	20.11	20.50	
20850	21048	QPSK	50	0	1	49	20.13	20.50	
21100	21298	QPSK	50	0	1	49	20.27	20.50	
21350	21152	QPSK	50	0	1	49	20.01	20.50	

Ant 2 DS15

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	21.11	21.50	
21100	21298	QPSK	1	0	1	99	21.27	21.50	
21350	21152	QPSK	1	0	1	99	21.05	21.50	
20850	21048	QPSK	50	0	1	49	21.04	21.50	
21100	21298	QPSK	50	0	1	49	21.25	21.50	
21350	21152	QPSK	50	0	1	49	20.98	21.50	

Ant 3 DS15

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	18.83	19.50	
21100	21298	QPSK	1	0	1	99	19.11	19.50	
21350	21152	QPSK	1	0	1	99	18.99	19.50	
20850	21048	QPSK	50	0	1	49	18.81	19.50	
21100	21298	QPSK	50	0	1	49	19.02	19.50	
21350	21152	QPSK	50	0	1	49	18.88	19.50	

Ant 3 Pull Power Full

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	0	0	1	99	24.86	25.50	
21100	21298	QPSK	1	0	1	99	24.91	25.50	
21350	21152	QPSK	1	0	1	99	24.81	25.50	
20850	21048	QPSK	50	0	1	49	23.90	25.50	
21100	21298	QPSK	50	0	1	49	23.98	25.50	
21350	21152	QPSK	50	0	1	49	23.88	25.50	

Ant 3 DS11

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	15.53	16.00	
21100	21298	QPSK	1	0	1	99	15.63	16.00	
21350	21152	QPSK	1	0	1	99	15.61	16.00	
20850	21048	QPSK	50	0	1	49	15.45	16.00	
21100	21298	QPSK	50	0	1	49	15.66	16.00	
21350	21152	QPSK	50	0	1	49	15.53	16.00	

Ant 3 DS14

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	21.05	21.50	
21100	21298	QPSK	1	0	1	99	21.22	21.50	
21350	21152	QPSK	1	0	1	99	21.09	21.50	
20850	21048	QPSK	50	0	1	49	21.01	21.50	
21100	21298	QPSK	50	0	1	49	21.18	21.50	
21350	21152	QPSK	50	0	1	49	21.07	21.50	

Ant 3 DS15

CA_7C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	0	1	99	18.83	19.50	
21100	21298	QPSK	1	0	1	99	19.11	19.50	
21350	21152	QPSK	1	0	1	99	18.99	19.50	
20850	21048	QPSK	50	0	1	49	18.81	19.50	
21100	21298	QPSK	50	0	1	49	19.02	19.50	
21350	21152	QPSK	50	0	1	49	18.88	19.50	

Ant 2 Pull Power DS114

CA_38C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	1	99	24.85	25.50	
38000	38198	QPSK	1	0	1	99	24.87	25.50	
38150	38348	QPSK	1	0	1	99	24.72	25.50	
37850	38048	QPSK	50	0	1	49	23.75	24.50	
38000	38198	QPSK	50	0	1	49	23.81	24.50	
38150	38348	QPSK	50	0	1	49	23.71	24.50	

Ant 2 DS1345

CA_38C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	1	99	23.59	24.00	
38000	38198	QPSK	1	0	1	99	23.73	24.00	
38150	38348	QPSK	1	0	1	99	23.61	24.00	
37850	38048	QPSK	50	0	1	49	23.49	24.00	
38000	38198	QPSK	50	0	1	49	23.71	24.00	
38150	38348	QPSK	50	0	1	49	23.54	24.00	

Ant 3 Pull Power Full

CA_38C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	1	99	24.83	25.50	
38000	38198	QPSK	1	0	1	99	24.93	25.50	
38150	38348	QPSK	1	0	1	99	24.73	25.50	
37850	38048	QPSK	50	0	1	49	23.78	24.50	
38000	38198	QPSK	50	0	1	49	23.85	24.50	
38150	38348	QPSK	50	0	1	49	23.77	24.50	

Ant 3 DS1145

CA_38C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	1	99	17.97	18.50	
38000	38198	QPSK	1	0	1	99	18.15	18.50	
38150	38348	QPSK	1	0	1	99	17.99	18.50	
37850	38048	QPSK	50	0	1	49	17.74	18.50	
38000	38198	QPSK	50	0	1	49	18.13	18.50	
38150	38348	QPSK	50	0	1	49	17.64	18.50	

Ant 3 DS14

CA_38C									
PCC Channel	SCC Channel	Modulation	Combination 20MHz+20MHz (1RB+100RB)				Measured Power (dBm)	Tune up Power (dBm)	
			PCC		SCC				
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	0	1	99	23.79	24.50	
38000	38198	QPSK	1	0	1	99	24.01	24.50	
38150	38348	QPSK	1	0	1	99	23.65	24.50	
37850	38048	QPSK	50	0	1	49	23.89	24.50	
38000	38198	QPSK	50	0	1	49	23.98	24.50	
38150	38348	QPSK	50	0	1	49	23.71	24.50	



Downlink CA Power 2CA DL

Configure	PCC								SCC				Power	
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
			(MHz)	(MHz)		Offset		(MHz)		(dBm)	(dBm)			
CA_7A-42A	Band 7	2	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	25.02	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	25.04	25.10
	Band 42	6	20M	3500	42590	QPSK	1	0	Band 7	20M	2555	3100	24.31	24.28
	Band 42	12	20M	3500	42590	QPSK	1	0	Band 7	20M	2555	3100	24.29	24.28
CA_38C	Band 38	2	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.94	25.00
	Band 38	3	20M	2595	38000	QPSK	1	0	Band 38	20M	2614.8	38198	24.96	25.00
CA_4A_7A	Band 4	2	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2555	3100	24.93	24.99
	Band 4	3	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2555	3100	24.52	24.99
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	25.08	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 4	20M	2132.5	2175	25.03	25.10



3CA DL

Configure	PCC								SCC1				SCC2				Power	
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_5A-7A-7A	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.88	24.89
	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	24.91	24.89
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	25.03	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 5	10M	881.5	2525	25.09	25.10
CA_12-66A-66A	Band 12	1	10M	704	23060	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.96	24.95
	Band 12	4	10M	704	23060	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.93	24.95
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	10M	737.5	5096	25.03	24.97
	Band 66	3	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	10M	737.5	5096	24.95	24.97



4CA DL

Configure	PCC							SCC1				SCC2				SCC3				Power		
	LTE	Ant	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
	Band		(MHz)	Freq.	Channel		RB	RB Offset	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	(dBm)	(dBm)
CA_5A-7A-66A-66A	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	24.79	24.89
	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	24.93	24.89
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	25.00	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	25.05	25.10
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	25.01	24.97
CA_7C-66A-66A	Band 66	3	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	24.93	24.97
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	24.98	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	25.07	25.10
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.98	24.97
CA_5A-7C-66A	Band 66	3	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.91	24.97
	Band 7	2	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	25.02	25.10
	Band 7	3	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	25.08	25.10
	Band 5	1	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.95	24.89
	Band 5	4	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.93	24.89
	Band 66	2	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.89	24.97
Band 66	3	20M	1745	132322	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	24.88	24.97	



Full Power level/Default Power level for 5G NR

n5 Ant1 DSI 1&4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	25.03	25.07	25.04	25.5	0.0	
20	PI2 BPSK	1	53	25.04	25.10	25.11			
20	PI2 BPSK	1	104	25.14	25.25	25.24			
20	PI2 BPSK	50	0	24.53	24.56	24.60	25.0	0.5	
20	PI2 BPSK	50	28	24.92	25.06	25.14	25.5	0.0	
20	PI2 BPSK	50	56	24.43	24.56	24.62	25.0	0.5	
20	PI2 BPSK	100	0	24.37	24.48	24.45			
20	QPSK	1	1	25.09	25.26	25.14			
20	QPSK	1	53	24.96	25.13	25.08	25.5	0.0	
20	QPSK	1	104	25.11	25.25	25.23	24.5	1.0	
20	QPSK	50	0	24.02	24.07	24.06			
20	QPSK	50	28	25.02	25.11	25.08			
20	QPSK	50	56	23.99	24.05	24.07	24.5	1.0	
20	QPSK	100	0	23.86	24.00	23.99	24.5	1.0	
20	16QAM	1	1	24.23	24.27	24.32			
20	64QAM	1	1	22.46	22.63	22.68			
20	256QAM	1	1	20.32	20.38	20.33	21.0	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	25.14	25.19	25.20	25.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	25.07	25.11	25.11	25.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	25.01	25.19	25.07	25.5	0.0	

n7 Ant1 DSI 1&4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	23.35	23.40	23.24	25.0	0.0	
20	PI2 BPSK	1	53	23.18	23.35	23.19			
20	PI2 BPSK	1	104	23.36	23.42	23.26			
20	PI2 BPSK	50	0	22.72	22.77	22.71	24.5	0.5	
20	PI2 BPSK	50	28	23.19	23.35	23.32	25.0	0.0	
20	PI2 BPSK	50	56	22.73	22.86	22.77	24.5	0.5	
20	PI2 BPSK	100	0	22.68	22.79	22.68			
20	QPSK	1	1	23.50	23.51	23.45			
20	QPSK	1	53	23.43	23.50	23.41	25.0	0.0	
20	QPSK	1	104	23.33	23.45	23.38	24.0	1.0	
20	QPSK	50	0	22.13	22.32	22.25			
20	QPSK	50	28	23.30	23.35	23.33			
20	QPSK	50	56	22.19	22.36	22.33	24.0	1.0	
20	QPSK	100	0	22.16	22.33	22.22	24.0	1.0	
20	16QAM	1	1	22.08	22.26	22.17			
20	64QAM	1	1	20.84	20.95	20.90			
20	256QAM	1	1	18.76	18.86	18.82	20.5	4.5	
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	1	23.04	23.22	23.06	25.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	1	23.05	23.32	23.17	25.0	0.0	
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	1	23.08	23.29	23.13	25.0	0.0	



n38 Ant1 DSI 1&4									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				516000	519000	522000			
Frequency (MHz)				2580	2595	2610			
20	PI2 BPSK	1	1	23.54	23.71	23.50	25.5	0.0	
20	PI2 BPSK	1	26	23.54	23.66	23.52			
20	PI2 BPSK	1	49	23.44	23.69	23.37			
20	PI2 BPSK	25	0	22.90	23.17	22.90	25.0	0.5	
20	PI2 BPSK	25	13	23.44	23.67	23.38	25.5	0.0	
20	PI2 BPSK	25	26	22.94	23.19	22.95	25.0	0.5	
20	PI2 BPSK	50	0	22.86	23.07	22.96			
20	QPSK	1	1	23.43	23.74	23.51	25.5	0.0	
20	QPSK	1	26	23.22	23.34	23.22			
20	QPSK	1	49	23.47	23.71	23.42			
20	QPSK	25	0	22.44	22.75	22.58	24.5	1.0	
20	QPSK	25	13	23.58	23.70	23.51	25.5	0.0	
20	QPSK	25	26	22.47	22.71	22.41	24.5	1.0	
20	QPSK	50	0	22.64	22.81	22.69			
20	16QAM	1	1	22.67	22.80	22.54	24.5	1.0	
20	64QAM	1	1	21.19	21.47	21.16	23.0	2.5	
20	256QAM	1	1	19.39	19.58	19.42	21.0	4.5	

n41 Ant1 DSI 1&4									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				509202	518598	528000			
Frequency (MHz)				2546.01	2592.99	2640			
100	PI2 BPSK	1	1	23.80	23.91	23.78	25.5	0.0	
100	PI2 BPSK	1	137	23.66	23.90	23.77			
100	PI2 BPSK	1	271	23.64	23.82	23.61			
100	PI2 BPSK	135	0	23.07	23.32	23.00	25.0	0.5	
100	PI2 BPSK	135	69	23.67	23.99	23.82	25.5	0.0	
100	PI2 BPSK	135	138	23.35	23.48	23.28	25.0	0.5	
100	PI2 BPSK	270	0	23.15	23.31	23.18			
100	QPSK	1	1	23.91	24.00	23.85	25.5	0.0	
100	QPSK	1	137	23.69	23.98	23.78			
100	QPSK	1	271	23.65	23.91	23.75			
100	QPSK	135	0	22.80	22.89	22.68	24.5	1.0	
100	QPSK	135	69	23.72	23.99	23.65	25.5	0.0	
100	QPSK	135	138	22.71	23.03	22.82	24.5	1.0	
100	QPSK	270	0	22.81	22.96	22.75			
100	16QAM	1	1	22.82	22.94	22.73	24.5	1.0	
100	64QAM	1	1	21.48	21.61	21.42	23.0	2.5	
100	256QAM	1	1	19.46	19.77	19.66	21.0	4.5	
Channel				508200	518598	528096	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2541	2592.99	2644.98			
90	QPSK	1	1	23.78	23.68	23.62	25.5	0.0	
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2536.02	2592.99	2649.99			
80	QPSK	1	1	23.71	23.73	23.66	25.5	0.0	
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2526	2592.99	2659.98			
60	QPSK	1	1	23.65	23.69	23.60	25.5	0.0	
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2521.02	2592.99	2664.99			
50	QPSK	1	1	23.59	23.73	23.72	25.5	0.0	
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2516.01	2592.99	2670			
40	QPSK	1	1	23.63	23.87	23.60	25.5	0.0	
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2511	2592.99	2674.98			
30	QPSK	1	1	23.66	23.68	23.76	25.5	0.0	
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2506.02	2592.99	2679.99			
20	QPSK	1	1	23.81	23.89	23.62	25.5	0.0	



n66 Ant2 DSI 1&4 Ant3 DSI 1&4&5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346900	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	24.85	24.95	24.82		
40	PI/2 BPSK	1	108	24.75	24.83	24.79	25.5	0.0
40	PI/2 BPSK	1	214	24.66	24.82	24.70		
40	PI/2 BPSK	108	0	24.28	24.39	24.27	25.0	0.5
40	PI/2 BPSK	108	54	24.75	24.82	24.70	25.5	0.0
40	PI/2 BPSK	108	108	24.31	24.41	24.34		
40	PI/2 BPSK	216	0	24.29	24.45	24.41	25.0	0.5
40	QPSK	1	1	25.17	25.24	24.97		
40	QPSK	1	108	24.91	24.94	24.80	25.5	0.0
40	QPSK	1	214	24.86	24.93	24.81		
40	QPSK	108	0	23.85	23.96	23.83	24.5	1.0
40	QPSK	108	54	25.11	25.22	25.03	25.5	0.0
40	QPSK	108	108	23.92	23.99	23.85		
40	QPSK	216	0	23.95	24.01	23.95	24.5	1.0
40	16QAM	1	1	23.86	23.95	23.90	24.5	1.0
40	64QAM	1	1	22.43	22.50	22.39	23.0	2.5
40	256QAM	1	1	20.33	20.36	20.34	21.0	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	QPSK	1	1	24.59	24.79	24.67	25.5	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	1	25.04	25.10	24.95	25.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5		
15	QPSK	1	1	24.72	24.84	24.72	25.5	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	24.69	24.75	24.59	25.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	24.62	24.86	24.62	25.5	0.0



n5 Ant4 DSI 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	25.03	25.07	25.04		
20	PI/2 BPSK	1	53	25.04	25.10	25.11	25.5	0.0
20	PI/2 BPSK	1	104	25.14	25.25	25.24		
20	PI/2 BPSK	50	0	24.53	24.56	24.60	25.0	0.5
20	PI/2 BPSK	50	28	24.92	25.06	25.14	25.5	0.0
20	PI/2 BPSK	50	56	24.43	24.56	24.62		
20	PI/2 BPSK	100	0	24.37	24.48	24.45	25.0	0.5
20	QPSK	1	1	25.08	25.26	25.14		
20	QPSK	1	53	24.96	25.13	25.08	25.5	0.0
20	QPSK	1	104	25.11	25.25	25.23		
20	QPSK	50	0	24.02	24.07	24.08	24.5	1.0
20	QPSK	50	28	25.02	25.11	25.08	25.5	0.0
20	QPSK	50	56	23.99	24.05	24.07		
20	QPSK	100	0	23.86	24.00	23.99	24.5	1.0
20	16QAM	1	1	24.23	24.27	24.32	24.5	1.0
20	64QAM	1	1	22.46	22.63	22.68	23.0	2.5
20	256QAM	1	1	20.32	20.38	20.33	21.0	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	25.14	25.19	25.20	25.5	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	25.07	25.11	25.11	25.5	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	25.01	25.19	25.07	25.5	0.0



PC3 n77 Ant4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.68	23.88	23.76	
100	PI2 BPSK	1	137	23.48	23.79	23.65	25.0
100	PI2 BPSK	1	271	23.59	23.76	23.60	
100	PI2 BPSK	135	0	22.95	23.05	22.93	24.5
100	PI2 BPSK	135	69	22.62	23.71	23.45	25.0
100	PI2 BPSK	135	138	22.94	23.15	23.03	24.5
100	PI2 BPSK	270	0	22.94	23.14	22.94	24.5
100	QPSK	1	1	23.82	23.90	23.85	
100	QPSK	1	137	23.66	23.85	23.60	25.0
100	QPSK	1	271	23.45	23.82	23.37	
100	QPSK	135	0	22.45	22.70	22.51	24.0
100	QPSK	135	69	23.96	23.81	23.81	25.0
100	QPSK	135	138	22.73	22.89	22.89	24.0
100	QPSK	270	0	22.63	22.76	22.46	24.0
100	16QAM	1	1	22.85	22.99	22.88	24.0
100	16QAM	1	1	21.99	21.51	21.24	22.5
100	256QAM	1	1	19.21	19.40	19.25	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.73	23.86	23.40	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.72	23.77	23.35	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.54	23.63	23.33	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.81	23.81	23.49	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.57	23.72	23.37	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.74	23.86	23.55	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.68	23.79	23.41	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.54	23.80	23.42	25.0

PC3 Part27Q n77 Ant4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63668	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.90	23.85	23.85	
100	PI2 BPSK	1	137	23.85	23.85	23.85	25.0
100	PI2 BPSK	1	271	23.83	23.43	23.43	24.5
100	PI2 BPSK	135	0	23.43	23.85	23.85	25.0
100	PI2 BPSK	135	69	23.85	23.39	23.39	24.5
100	PI2 BPSK	135	138	23.39	23.35	23.35	24.5
100	PI2 BPSK	270	0	23.35	23.35	23.35	24.5
100	QPSK	1	1	23.96	23.96	23.96	
100	QPSK	1	137	23.76	23.76	23.76	25.0
100	QPSK	1	271	23.89	22.77	22.77	24.0
100	QPSK	135	0	22.77	22.77	22.77	24.0
100	QPSK	135	69	22.72	22.72	22.72	25.0
100	QPSK	135	138	22.69	22.71	22.71	24.0
100	QPSK	270	0	22.71	22.77	22.77	24.0
100	16QAM	1	1	22.77	22.77	22.77	24.0
100	16QAM	1	1	21.36	21.36	21.36	22.5
100	256QAM	1	1	19.44	19.44	19.44	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	23.59	23.77	23.47	25.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.53	23.67	23.46	25.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.59	23.83	23.57	25.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.50	23.69	23.64	25.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.52	23.67	23.67	25.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.57	23.78	23.53	25.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.50	23.85	23.55	25.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.58	23.83	23.64	25.0

SA PC2 n78 Ant4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.72	23.72	23.72	
100	PI2 BPSK	1	137	26.63	26.63	26.63	28.0
100	PI2 BPSK	1	271	26.71	26.71	26.71	27.5
100	PI2 BPSK	135	0	26.11	26.11	26.11	28.0
100	PI2 BPSK	135	69	26.69	26.69	26.69	27.5
100	PI2 BPSK	135	138	21.77	21.77	21.77	27.5
100	PI2 BPSK	270	0	26.12	26.12	26.12	27.0
100	QPSK	1	1	26.75	26.75	26.75	
100	QPSK	1	137	26.64	26.64	26.64	28.0
100	QPSK	1	271	26.57	26.57	26.57	27.0
100	QPSK	135	0	25.81	25.81	25.81	28.0
100	QPSK	135	69	26.62	26.62	26.62	27.0
100	QPSK	135	138	25.77	25.77	25.77	27.0
100	QPSK	270	0	25.80	25.80	25.80	27.0
100	16QAM	1	1	25.78	25.78	25.78	27.0
100	16QAM	1	1	24.11	24.11	24.11	25.5
100	256QAM	1	1	22.34	22.34	22.34	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	26.18	26.44	26.32	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	26.23	26.57	26.51	28.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	26.22	26.66	26.40	28.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	26.20	26.57	26.48	28.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	26.40	26.57	26.59	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	26.37	26.62	26.44	28.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	26.37	26.65	26.34	28.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	26.21	26.64	26.36	28.0



SA PC2 Part27Q n78 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63334									
Frequency (MHz) 3500.01									
100	PI2 BPSK	1	1	26.02					
100	PI2 BPSK	1	137	26.77			28.0	0.0	
100	PI2 BPSK	1	271	26.77					
100	PI2 BPSK	135	0	26.35			27.5	0.5	
100	PI2 BPSK	135	69	26.71			28.0	0.0	
100	PI2 BPSK	135	138	26.44			27.5	0.5	
100	PI2 BPSK	270	0	26.40					
100	QPSK	1	1	26.93					
100	QPSK	1	137	26.79			28.0	0.0	
100	QPSK	1	271	26.88					
100	QPSK	135	0	25.90			27.0	1.0	
100	QPSK	135	69	26.81			28.0	0.0	
100	QPSK	135	138	26.03			27.0	1.0	
100	QPSK	270	0	25.89					
100	16QAM	1	1	25.99			27.0	1.0	
100	64QAM	1	1	24.87			25.5	2.5	
100	256QAM	1	1	22.31			23.5	4.5	
Channel 63300									
Frequency (MHz) 3495									
90	QPSK	1	1	26.78	26.71	26.68	28.0	0.0	
Channel 63368									
Frequency (MHz) 3495.02									
80	QPSK	1	1	26.79	26.74	26.68	28.0	0.0	
Channel 63400									
Frequency (MHz) 3485.01									
70	QPSK	1	1	26.74	26.72	26.74	28.0	0.0	
Channel 63200									
Frequency (MHz) 3485.01									
60	QPSK	1	1	26.74	26.75	26.68	28.0	0.0	
Channel 63168									
Frequency (MHz) 3479.02									
50	QPSK	1	1	26.84	26.80	26.72	28.0	0.0	
Channel 63334									
Frequency (MHz) 3479.01									
40	QPSK	1	1	26.01	26.72	26.78	28.0	0.0	
Channel 3485									
Frequency (MHz) 3485									
30	QPSK	1	1	26.64	26.86	26.56	28.0	0.0	
Channel 3486.02									
Frequency (MHz) 3486.02									
20	QPSK	1	1	26.68	26.77	26.74	28.0	0.0	

NSA PC3 n78 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63334									
Frequency (MHz) 3750									
100	PI2 BPSK	1	1	25.39					
100	PI2 BPSK	1	137	25.19			26.5	0.0	
100	PI2 BPSK	1	271	25.33					
100	PI2 BPSK	135	0	24.30			26.5	0.0	
100	PI2 BPSK	135	69	25.25			26.5	0.0	
100	PI2 BPSK	135	138	25.39			26.5	0.0	
100	PI2 BPSK	270	0	25.34					
100	QPSK	1	1	25.49					
100	QPSK	1	137	25.31			26.5	0.0	
100	QPSK	1	271	25.35					
100	QPSK	135	0	25.33			26.5	0.0	
100	QPSK	135	69	25.24			26.5	0.0	
100	QPSK	135	138	25.30			26.5	0.0	
100	QPSK	270	0	25.28					
100	16QAM	1	1	25.28			26.5	0.0	
100	64QAM	1	1	24.17			25.5	1.0	
100	256QAM	1	1	22.20			23.5	3.0	
Channel 64968									
Frequency (MHz) 3745.02									
90	QPSK	1	1	24.70	25.00	24.85	24.5	0.0	
Channel 65000									
Frequency (MHz) 3740.01									
80	QPSK	1	1	24.73	24.89	25.13	26.5	0.0	
Channel 65068									
Frequency (MHz) 3735									
70	QPSK	1	1	24.79	25.01	25.07	26.5	0.0	
Channel 65000									
Frequency (MHz) 3730.02									
60	QPSK	1	1	24.71	24.89	25.07	26.5	0.0	
Channel 64834									
Frequency (MHz) 3725.01									
50	QPSK	1	1	24.63	24.99	25.03	26.5	0.0	
Channel 65000									
Frequency (MHz) 3720									
40	QPSK	1	1	24.82	24.89	25.00	26.5	0.0	
Channel 64768									
Frequency (MHz) 3715.02									
30	QPSK	1	1	24.56	24.99	25.11	26.5	0.0	
Channel 64734									
Frequency (MHz) 3710.01									
20	QPSK	1	1	24.60	24.91	24.93	26.5	0.0	

NSA PC3 Part27Q n78 Ant4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63334									
Frequency (MHz) 3500.01									
100	PI2 BPSK	1	1	25.50					
100	PI2 BPSK	1	137	25.23			26.5	0.0	
100	PI2 BPSK	1	271	25.49					
100	PI2 BPSK	135	0	24.47			26.5	0.0	
100	PI2 BPSK	135	69	25.34			26.5	0.0	
100	PI2 BPSK	135	138	25.38			26.5	0.0	
100	PI2 BPSK	270	0	25.35					
100	QPSK	1	1	25.55					
100	QPSK	1	137	25.33			26.5	0.0	
100	QPSK	1	271	25.50					
100	QPSK	135	0	25.33			26.5	0.0	
100	QPSK	135	69	25.49			26.5	0.0	
100	QPSK	135	138	25.46			26.5	0.0	
100	QPSK	270	0	25.50					
100	16QAM	1	1	25.33			26.5	0.0	
100	64QAM	1	1	24.22			25.5	1.0	
100	256QAM	1	1	22.18			23.5	3.0	
Channel 63300									
Frequency (MHz) 3495									
90	QPSK	1	1	24.85	25.11	25.02	24.5	0.0	
Channel 63334									
Frequency (MHz) 3490.02									
80	QPSK	1	1	24.85	25.07	25.10	26.5	0.0	
Channel 63400									
Frequency (MHz) 3485.01									
70	QPSK	1	1	24.84	25.04	24.99	26.5	0.0	
Channel 63200									
Frequency (MHz) 3485.01									
60	QPSK	1	1	24.72	25.07	24.99	26.5	0.0	
Channel 63168									
Frequency (MHz) 3479.02									
50	QPSK	1	1	24.82	25.11	25.12	26.5	0.0	
Channel 63334									
Frequency (MHz) 3479.01									
40	QPSK	1	1	24.40	25.08	24.96	26.5	0.0	
Channel 3485									
Frequency (MHz) 3485									
30	QPSK	1	1	24.90	25.07	25.15	26.5	0.0	
Channel 3486.02									
Frequency (MHz) 3486.02									
20	QPSK	1	1	24.82	24.98	25.04	26.5	0.0	



n7 Ant5 DSI4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	24.27	24.35	24.20		
20	PI/2 BPSK	1	53	24.18	24.35	24.22	25.0	0.0
20	PI/2 BPSK	1	104	24.21	24.33	24.14		
20	PI/2 BPSK	50	0	23.58	23.73	23.62	24.5	0.5
20	PI/2 BPSK	50	28	24.11	24.29	24.21	25.0	0.0
20	PI/2 BPSK	50	56	23.59	23.77	23.69		
20	PI/2 BPSK	100	0	23.54	23.71	23.57	24.5	0.5
20	QPSK	1	1	24.49	24.56	24.44		
20	QPSK	1	53	24.35	24.52	24.32	25.0	0.0
20	QPSK	1	104	24.36	24.45	24.32		
20	QPSK	50	0	23.01	23.21	23.09	24.0	1.0
20	QPSK	50	28	24.22	24.30	24.27	25.0	0.0
20	QPSK	50	56	23.16	23.25	23.04		
20	QPSK	100	0	23.11	23.26	23.10	24.0	1.0
20	16QAM	1	1	23.35	23.44	23.35	24.0	1.0
20	64QAM	1	1	21.89	22.00	21.82	22.5	2.5
20	256QAM	1	1	19.64	19.83	19.75	20.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	24.15	24.28	24.00	25.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	24.07	24.18	24.07	25.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	24.09	24.24	23.99	25.0	0.0



n38 Ant5 DSI4								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				516000	519000	522000		
Frequency (MHz)				2580	2955	2610		
20	PI2 BPSK	1	1	24.10	24.39	24.15	25.5	0.0
20	PI2 BPSK	1	26	24.07	24.30	24.07		
20	PI2 BPSK	1	49	24.12	24.23	23.93		
20	PI2 BPSK	25	0	23.56	23.88	23.47	25.0	0.5
20	PI2 BPSK	25	13	23.98	24.27	24.15	25.5	0.0
20	PI2 BPSK	25	26	23.56	23.64	23.38	25.0	0.5
20	PI2 BPSK	50	0	23.35	23.62	23.37		
20	QPSK	1	1	24.31	24.47	24.27	25.5	0.0
20	QPSK	1	26	24.38	24.46	24.18		
20	QPSK	1	49	24.10	24.37	24.16		
20	QPSK	25	0	23.75	23.84	23.65	24.5	1.0
20	QPSK	25	13	24.13	24.40	24.30	25.5	0.0
20	QPSK	25	26	23.38	23.56	23.26	24.5	1.0
20	QPSK	50	0	23.33	23.65	23.54		
20	16QAM	1	1	23.01	23.17	22.86	24.5	1.0
20	64QAM	1	1	21.68	21.99	21.69	23.0	2.5
20	256QAM	1	1	19.81	20.07	19.99	21.0	4.5

n41 Ant5								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.49	24.59	24.36	25.5	0.0
100	PI2 BPSK	1	137	24.37	24.52	24.39		
100	PI2 BPSK	1	271	24.33	24.43	24.26		
100	PI2 BPSK	135	0	23.74	23.97	23.83	25.0	0.5
100	PI2 BPSK	135	69	24.24	24.42	24.16	25.5	0.0
100	PI2 BPSK	135	138	23.91	24.07	23.80	25.0	0.5
100	PI2 BPSK	270	0	23.95	24.08	23.95		
100	QPSK	1	1	24.52	24.66	24.50	25.5	0.0
100	QPSK	1	137	24.47	24.65	24.37		
100	QPSK	1	271	24.04	24.35	24.20		
100	QPSK	135	0	23.90	24.17	23.92	24.5	1.0
100	QPSK	135	69	24.48	24.63	24.41	25.5	0.0
100	QPSK	135	138	23.13	23.41	23.13	24.5	1.0
100	QPSK	270	0	23.32	23.42	23.23		
100	16QAM	1	1	23.16	23.36	23.26	24.5	1.0
100	64QAM	1	1	21.66	21.81	21.73	23.0	2.5
100	256QAM	1	1	19.74	19.88	19.58	21.0	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	24.27	24.37	24.36	25.5	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	24.23	24.36	24.34	25.5	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	24.37	24.53	24.10	25.5	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	24.44	24.43	24.30	25.5	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.23	24.50	24.32	25.5	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	24.39	24.41	24.39	25.5	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	24.43	24.49	24.29	25.5	0.0



PC3 n77 Ant6 DS14							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.52	23.69	23.40	
100	PI2 BPSK	1	137	23.22	23.54	23.38	24.5
100	PI2 BPSK	1	271	23.17	23.48	23.31	
100	PI2 BPSK	135	0	22.96	23.10	22.84	24.0
100	PI2 BPSK	135	69	23.40	23.54	23.29	24.5
100	PI2 BPSK	135	138	22.78	23.02	22.85	24.0
100	PI2 BPSK	270	0	22.77	23.09	22.88	24.0
100	QPSK	1	1	23.61	23.83	23.53	
100	QPSK	1	137	23.44	23.71	23.49	24.5
100	QPSK	1	271	23.45	23.85	23.57	
100	QPSK	135	0	22.59	22.70	22.40	23.5
100	QPSK	135	69	23.99	23.86	23.38	24.5
100	QPSK	135	138	22.51	22.82	22.50	23.5
100	QPSK	270	0	22.57	22.88	22.54	23.5
100	16QAM	1	1	22.82	23.06	22.92	23.5
100	16QAM	1	1	21.26	21.48	21.22	22.0
100	256QAM	1	1	19.35	19.35	19.20	4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	33.30	33.32	33.21	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.41	23.89	23.31	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.39	23.70	23.44	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.44	23.72	23.39	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.39	23.73	23.31	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.41	23.87	23.41	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.33	23.73	23.27	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.50	23.69	23.20	24.5

PC3 Part27Q n77 Ant6 DS14							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 63000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63668	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	23.80			
100	PI2 BPSK	1	137	23.78			24.5
100	PI2 BPSK	1	271	23.63			
100	PI2 BPSK	135	0	23.11			24.0
100	PI2 BPSK	135	69	23.74			24.5
100	PI2 BPSK	135	138	23.25			24.0
100	PI2 BPSK	270	0	23.31			24.0
100	QPSK	1	1	23.81			
100	QPSK	1	137	23.90			24.5
100	QPSK	1	271	23.61			
100	QPSK	135	0	22.79			23.5
100	QPSK	135	69	23.80			24.5
100	QPSK	135	138	22.88			23.5
100	QPSK	270	0	22.88			23.5
100	16QAM	1	1	22.85			23.5
100	16QAM	1	1	21.44			22.0
100	256QAM	1	1	19.56			4.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	33.02	33.03	32.99	24.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	23.51	23.73	23.64	24.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	23.56	23.72	23.67	24.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	23.49	23.55	23.55	24.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	23.12	23.12	23.06	24.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	23.08	23.02	23.51	24.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	23.50	23.52	23.49	24.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	23.85	23.68	23.50	24.5

SA PC2 n78 Ant6 DS14							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 65000	Power Middle Ch. / Freq. 65000	Power High Ch. / Freq. 65000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	26.91			
100	PI2 BPSK	1	137	26.84			27.5
100	PI2 BPSK	1	271	26.46			
100	PI2 BPSK	135	0	26.16			27.0
100	PI2 BPSK	135	69	26.64			27.5
100	PI2 BPSK	135	138	25.97			27.0
100	PI2 BPSK	270	0	26.17			27.0
100	QPSK	1	1	26.80			
100	QPSK	1	137	26.77			27.5
100	QPSK	1	271	26.50			
100	QPSK	135	0	25.75			26.5
100	QPSK	135	69	26.75			27.5
100	QPSK	135	138	25.56			26.5
100	QPSK	270	0	25.75			26.5
100	16QAM	1	1	26.06			26.5
100	16QAM	1	1	24.51			25.0
100	256QAM	1	1	21.91			23.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	37.42	37.42	37.51	27.5
Channel							
Frequency (MHz)							
80	QPSK	1	1	28.21	28.59	28.87	27.5
Channel							
Frequency (MHz)							
70	QPSK	1	1	28.26	28.63	28.62	27.5
Channel							
Frequency (MHz)							
60	QPSK	1	1	28.31	28.57	28.45	27.5
Channel							
Frequency (MHz)							
50	QPSK	1	1	28.43	28.65	28.48	27.5
Channel							
Frequency (MHz)							
40	QPSK	1	1	28.58	28.49	28.00	27.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	28.41	28.49	28.48	27.5
Channel							
Frequency (MHz)							
20	QPSK	1	1	26.22	26.58	26.58	27.5

**SA PC2 Part27Q n78 Ant6 DS14**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel 63334								
Frequency (MHz) 3500.01								
100	PI2 BPSK	1	1	26.65				
100	PI2 BPSK	1	137	26.77			27.5	0.0
100	PI2 BPSK	1	271	26.71				
100	PI2 BPSK	135	0	26.29			27.0	0.5
100	PI2 BPSK	135	69	26.79			27.5	0.0
100	PI2 BPSK	135	138	26.31			27.0	0.5
100	PI2 BPSK	270	0	26.30				
100	QPSK	1	1	26.88				
100	QPSK	1	137	26.68			27.5	0.0
100	QPSK	1	271	26.87				
100	QPSK	135	0	25.88			26.5	1.0
100	QPSK	135	69	26.75			27.5	0.0
100	QPSK	135	138	26.30			26.5	1.0
100	QPSK	270	0	25.81			26.5	1.0
100	16QAM	1	1	25.88			26.5	1.0
100	64QAM	1	1	24.44			25.0	2.5
100	256QAM	1	1	22.70			23.0	4.5
Channel 63300								
Frequency (MHz) 3500.01								
80	QPSK	1	1	26.28	26.07	26.45	27.5	0.0
Channel 63368								
Frequency (MHz) 3500.01								
80	QPSK	1	1	26.32	26.78	26.53	27.5	0.0
Channel 63200								
Frequency (MHz) 3485.01								
70	QPSK	1	1	26.29	26.61	26.53	27.5	0.0
Channel 63268								
Frequency (MHz) 3485.01								
60	QPSK	1	1	26.28	26.59	26.42	27.5	0.0
Channel 63168								
Frequency (MHz) 3470.01								
50	QPSK	1	1	26.44	26.70	26.45	27.5	0.0
Channel 63134								
Frequency (MHz) 3470.01								
40	QPSK	1	1	26.21	26.06	26.48	27.5	0.0
Channel 3465								
Frequency (MHz) 3465								
30	QPSK	1	1	26.28	26.77	26.58	27.5	0.0
Channel 3460.02								
Frequency (MHz) 3460.02								
20	QPSK	1	1	26.43	26.69	26.62	27.5	0.0

NSA PC3 n78 Ant6 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel 63334								
Frequency (MHz) 3750								
100	PI2 BPSK	1	1	25.07				
100	PI2 BPSK	1	137	25.23			26.0	0.0
100	PI2 BPSK	1	271	25.07				
100	PI2 BPSK	135	0	25.11			26.0	0.0
100	PI2 BPSK	135	69	25.11			26.0	0.0
100	PI2 BPSK	135	138	24.95			26.0	0.0
100	PI2 BPSK	270	0	25.10				
100	QPSK	1	1	25.20				
100	QPSK	1	137	25.04			26.0	0.0
100	QPSK	1	271	24.91				
100	QPSK	135	0	25.17			26.0	0.0
100	QPSK	135	69	24.91			26.0	0.0
100	QPSK	135	138	25.09			26.0	0.0
100	QPSK	270	0	25.11			26.0	0.0
100	16QAM	1	1	25.01			26.0	0.0
100	64QAM	1	1	23.99			25.0	1.0
100	256QAM	1	1	22.05			23.0	3.0
Channel 64968								
Frequency (MHz) 3745.02								
80	QPSK	1	1	24.70	25.10	25.03	26.0	0.0
Channel 65000								
Frequency (MHz) 3740.01								
80	QPSK	1	1	24.75	25.14	25.10	26.0	0.0
Channel 65068								
Frequency (MHz) 3735								
70	QPSK	1	1	24.82	25.03	25.10	26.0	0.0
Channel 65000								
Frequency (MHz) 3730.02								
60	QPSK	1	1	24.70	25.20	25.01	26.0	0.0
Channel 64834								
Frequency (MHz) 3725.01								
50	QPSK	1	1	24.62	25.12	24.98	26.0	0.0
Channel 65000								
Frequency (MHz) 3720								
40	QPSK	1	1	24.74	25.17	25.02	26.0	0.0
Channel 3715.02								
Frequency (MHz) 3715.02								
30	QPSK	1	1	24.69	25.04	24.98	26.0	0.0
Channel 3710.01								
Frequency (MHz) 3710.01								
20	QPSK	1	1	24.82	25.10	25.16	26.0	0.0

NSA PC3 Part27Q n78 Ant6 DS14

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel 63334								
Frequency (MHz) 3500.01								
100	PI2 BPSK	1	1	24.95				
100	PI2 BPSK	1	137	25.11			26.0	0.0
100	PI2 BPSK	1	271	24.91				
100	PI2 BPSK	135	0	25.09			26.0	0.0
100	PI2 BPSK	135	69	24.95			26.0	0.0
100	PI2 BPSK	135	138	24.85			26.0	0.0
100	PI2 BPSK	270	0	24.96				
100	QPSK	1	1	25.14				
100	QPSK	1	137	24.98			26.0	0.0
100	QPSK	1	271	24.87				
100	QPSK	135	0	25.07			26.0	0.0
100	QPSK	135	69	24.76			26.0	0.0
100	QPSK	135	138	25.05			26.0	0.0
100	QPSK	270	0	25.03			26.0	0.0
100	16QAM	1	1	25.01			26.0	0.0
100	64QAM	1	1	24.93			25.0	1.0
100	256QAM	1	1	23.98			23.0	3.0
Channel 63300								
Frequency (MHz) 3495								
80	QPSK	1	1	24.75	24.97	24.92	26.0	0.0
Channel 63368								
Frequency (MHz) 3490.02								
80	QPSK	1	1	24.76	24.98	24.96	26.0	0.0
Channel 63200								
Frequency (MHz) 3485.01								
70	QPSK	1	1	24.59	25.01	24.96	26.0	0.0
Channel 63268								
Frequency (MHz) 3485.01								
60	QPSK	1	1	24.57	25.06	24.87	26.0	0.0
Channel 63168								
Frequency (MHz) 3470.01								
50	QPSK	1	1	24.84	25.17	24.88	26.0	0.0
Channel 63134								
Frequency (MHz) 3470.01								
40	QPSK	1	1	24.65	25.06	25.05	26.0	0.0
Channel 3465								
Frequency (MHz) 3465								
30	QPSK	1	1	24.64	25.09	24.87	26.0	0.0
Channel 3460.02								
Frequency (MHz) 3460.02								
20	QPSK	1	1	24.65	25.12	24.96	26.0	0.0



PC3 n77 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.75	20.86	20.97			
100	PI2 BPSK	1	137	20.56	20.70	20.82	22.0	0.0	
100	PI2 BPSK	1	271	20.58	20.87	20.78			
100	PI2 BPSK	135	0	19.93	20.09	19.88	21.5	0.5	
100	PI2 BPSK	135	69	20.43	20.65	20.40	22.0	0.0	
100	PI2 BPSK	135	138	20.01	20.20	20.04	21.5	0.5	
100	PI2 BPSK	270	0	20.03	20.14	19.97			
100	QPSK	1	1	20.81	20.91	20.73			
100	QPSK	1	137	20.43	20.65	20.47	22.0	0.0	
100	QPSK	1	271	20.68	20.87	20.78			
100	QPSK	135	0	19.45	19.61	19.39	21.0	1.0	
100	QPSK	135	69	20.52	20.69	20.52	22.0	0.0	
100	QPSK	135	138	19.93	19.74	19.59	21.0	1.0	
100	QPSK	270	0	19.60	19.69	19.52			
100	16QAM	1	1	19.47	19.72	19.53	21.0	1.0	
100	16QAM	1	1	18.95	18.23	18.15	18.5	2.5	
100	256QAM	1	1	19.11	19.29	19.07	17.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	20.38	20.77	20.48	22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	20.46	20.86	20.57	22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.41	20.78	20.55	22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.33	20.71	20.52	22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	20.32	20.80	20.51	22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	20.52	20.89	20.50	22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.40	20.71	20.42	22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.30	20.67	20.55	22.0	0.0	

PC3 Par27q n77 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 63334	Power High Ch. / Freq. 63668	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		20.76				
100	PI2 BPSK	1	137		20.73		22.0	0.0	
100	PI2 BPSK	1	271		20.37				
100	PI2 BPSK	135	0		19.98		21.5	0.5	
100	PI2 BPSK	135	69		20.76		22.0	0.0	
100	PI2 BPSK	135	138		20.10		21.5	0.5	
100	PI2 BPSK	270	0		20.09				
100	QPSK	1	1		20.94				
100	QPSK	1	137		20.98		22.0	0.0	
100	QPSK	1	271		20.50				
100	QPSK	135	0		19.96		21.0	1.0	
100	QPSK	135	69		20.80		22.0	0.0	
100	QPSK	135	138		19.70		21.0	1.0	
100	QPSK	270	0		19.76				
100	16QAM	1	1		19.85		21.0	1.0	
100	16QAM	1	1		18.42		18.5	2.5	
100	256QAM	1	1		18.74		17.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		20.75		22.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1		20.72		22.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1		20.66		22.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1		20.62		22.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1		20.55		22.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1		20.81		22.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1		20.67		22.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1		20.71		22.0	0.0	

SA PC2 n78 Ant8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 649668	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		23.75				
100	PI2 BPSK	1	137		23.62		25.0	0.0	
100	PI2 BPSK	1	271		23.34				
100	PI2 BPSK	135	0		23.30		24.5	0.5	
100	PI2 BPSK	135	69		23.67		25.0	0.0	
100	PI2 BPSK	135	138		22.89		24.5	0.5	
100	PI2 BPSK	270	0		23.21				
100	QPSK	1	1		24.11				
100	QPSK	1	137		23.88		25.0	0.0	
100	QPSK	1	271		23.51				
100	QPSK	135	0		22.62		24.0	1.0	
100	QPSK	135	69		23.77		25.0	0.0	
100	QPSK	135	138		22.91		24.0	1.0	
100	QPSK	270	0		22.73				
100	16QAM	1	1		23.34		24.0	1.0	
100	16QAM	1	1		21.48		22.5	2.5	
100	256QAM	1	1		19.86		20.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1		23.65		23.8	23.0	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		23.50		23.70	25.0	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		23.48		23.73	25.0	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		23.48		23.68	25.0	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		23.53		23.59	25.0	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		23.48		23.67	25.0	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		23.53		23.62	25.0	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	1		23.59		23.58	25.0	0.0



SA PC2 Part27Q n78 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
63000										
100	Pi2 BPSK	1	1	23.09	3500.01					
100	Pi2 BPSK	1	137	23.08	3500.01		25.0	0.0		
100	Pi2 BPSK	1	271	23.31	3500.01					
100	Pi2 BPSK	135	0	23.35	3500.01		24.5	0.5		
100	Pi2 BPSK	135	69	23.65	3500.01		25.0	0.0		
100	Pi2 BPSK	135	138	23.43	3500.01		24.5	0.5		
100	Pi2 BPSK	270	0	23.37	3500.01					
100	QPSK	1	1	22.77	3500.01					
100	QPSK	1	137	23.78	3500.01		25.0	0.0		
100	QPSK	1	271	23.34	3500.01					
100	QPSK	135	0	22.87	3500.01		24.0	1.0		
100	QPSK	135	69	23.66	3500.01		25.0	0.0		
100	QPSK	135	138	22.55	3500.01		24.0	1.0		
100	QPSK	270	0	22.81	3500.01					
100	16QAM	1	1	22.71	3500.01		24.0	1.0		
100	64QAM	1	1	21.19	3500.01		22.5	2.5		
100	256QAM	1	1	19.37	3500.01		20.5	4.5		
Channel										
Frequency (MHz)										
63300										
90	QPSK	1	1	3495	3500.01	3505.02				
Channel										
Frequency (MHz)										
63600										
80	QPSK	1	1	3450.02	3500.01	3510				
Channel										
Frequency (MHz)										
63900										
70	QPSK	1	1	23.44	3500.01	3515.01				
Channel										
Frequency (MHz)										
64200										
60	QPSK	1	1	23.43	3500.01	3525				
Channel										
Frequency (MHz)										
64500										
50	QPSK	1	1	23.51	3500.01	3525				
Channel										
Frequency (MHz)										
64800										
40	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
65100										
30	QPSK	1	1	23.54	3500.01	3534				
Channel										
Frequency (MHz)										
65400										
20	QPSK	1	1	23.84	3500.01	3534				

NSA PC3 n78 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3750										
100	Pi2 BPSK	1	1	22.32						
100	Pi2 BPSK	1	137	22.14			23.5	0.0		
100	Pi2 BPSK	1	271	21.96						
100	Pi2 BPSK	135	0	22.35			23.5	0.0		
100	Pi2 BPSK	135	69	22.17			23.5	0.0		
100	Pi2 BPSK	135	138	21.88			23.5	0.0		
100	Pi2 BPSK	270	0	22.19						
100	QPSK	1	1	22.45						
100	QPSK	1	137	21.88			23.5	0.0		
100	QPSK	1	271	22.28						
100	QPSK	135	0	22.12			23.5	0.0		
100	QPSK	135	69	22.29			23.5	0.0		
100	QPSK	135	138	22.18			23.5	0.0		
100	QPSK	270	0	22.08						
100	16QAM	1	1	21.84			23.5	0.0		
100	64QAM	1	1	21.06			22.5	1.0		
100	256QAM	1	1	18.89			20.5	3.0		
Channel										
Frequency (MHz)										
64968										
90	QPSK	1	1	3745.02	3750	3755.01				
Channel										
Frequency (MHz)										
65000										
80	QPSK	1	1	22.05	22.42	22.17				
Channel										
Frequency (MHz)										
65034										
80	QPSK	1	1	21.80	22.23	21.91				
Channel										
Frequency (MHz)										
65068										
70	QPSK	1	1	3735	3750	3765				
Channel										
Frequency (MHz)										
65100										
60	QPSK	1	1	21.79	22.24	21.98				
Channel										
Frequency (MHz)										
65134										
50	QPSK	1	1	3725.01	3750	3750.02				
Channel										
Frequency (MHz)										
65168										
40	QPSK	1	1	3715.02	3750	3765.01				
Channel										
Frequency (MHz)										
65202										
30	QPSK	1	1	22.23	22.44	21.99				
Channel										
Frequency (MHz)										
65234										
20	QPSK	1	1	22.12	22.42	22.19				

NSA PC3 Part27Q n78 Ant8										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
3500.01										
100	Pi2 BPSK	1	1	21.91						
100	Pi2 BPSK	1	137	21.68			23.5	0.0		
100	Pi2 BPSK	1	271	21.65						
100	Pi2 BPSK	135	0	22.10			23.5	0.0		
100	Pi2 BPSK	135	69	21.81			23.5	0.0		
100	Pi2 BPSK	135	138	21.60			23.5	0.0		
100	Pi2 BPSK	270	0	21.83						
100	QPSK	1	1	22.19						
100	QPSK	1	137	21.77			23.5	0.0		
100	QPSK	1	271	21.95						
100	QPSK	135	0	21.75			23.5	0.0		
100	QPSK	135	69	21.86			23.5	0.0		
100	QPSK	135	138	21.81			23.5	0.0		
100	QPSK	270	0	21.65						
100	16QAM	1	1	21.66			23.5	0.0		
100	64QAM	1	1	20.78			22.5	1.0		
100	256QAM	1	1	19.59			20.5	3.0		
Channel										
Frequency (MHz)										
63300										
90	QPSK	1	1	3495	3500.01	3505.02				
Channel										
Frequency (MHz)										
63334										
80	QPSK	1	1	3450.02	3500.01	3510				
Channel										
Frequency (MHz)										
63368										
70	QPSK	1	1	23.71	22.18	21.90				
Channel										
Frequency (MHz)										
63402										
60	QPSK	1	1	23.76	22.17	21.78				
Channel										
Frequency (MHz)										
63434										
50	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
63468										
40	QPSK	1	1	3465	3500.01	3505.02				
Channel										
Frequency (MHz)										
63502										
30	QPSK	1	1	23.75	22.09	21.93				
Channel										
Frequency (MHz)										
63534										
20	QPSK	1	1	21.66	21.82	21.64				



PC3 n77 Ant12 DS1 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.43	24.54	24.26			
100	PI2 BPSK	1	137	24.36	24.50	24.37	25.0	0.0	
100	PI2 BPSK	1	271	23.96	24.16	24.05			
100	PI2 BPSK	135	0	23.88	24.01	23.88	24.5	0.5	
100	PI2 BPSK	135	69	23.23	23.49	23.22	25.0	0.0	
100	PI2 BPSK	135	138	23.54	23.84	23.57	24.5	0.5	
100	PI2 BPSK	270	0	23.76	23.98	23.78			
100	QPSK	1	1	24.46	24.72	24.61			
100	QPSK	1	137	24.31	24.56	24.43	25.0	0.0	
100	QPSK	1	271	24.14	24.27	24.00			
100	QPSK	135	0	23.35	23.62	23.45	24.0	1.0	
100	QPSK	135	69	24.27	24.55	24.27	25.0	0.0	
100	QPSK	135	138	23.09	23.40	23.12	24.0	1.0	
100	QPSK	270	0	23.43	23.56	23.37			
100	16QAM	1	1	23.46	23.67	23.46	24.0	1.0	
100	16QAM	1	1	23.81	23.13	21.81	22.5	2.5	
100	256QAM	1	1	23.21	23.33	23.07	20.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.23	24.47	24.29	25.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.27	24.52	24.34	25.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.35	24.53	24.41	25.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.24	24.42	24.35	25.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.32	24.63	24.52	25.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.31	24.42	24.35	25.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.20	24.56	24.42	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.37	24.57	24.31	25.0	0.0	

PC3 Part27Q n77 Ant12 DS1 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.71					
100	PI2 BPSK	1	137	24.75			25.0	0.0	
100	PI2 BPSK	1	271	24.69					
100	PI2 BPSK	135	0	24.21			24.5	0.5	
100	PI2 BPSK	135	69	24.52			25.0	0.0	
100	PI2 BPSK	135	138	24.18			24.5	0.5	
100	PI2 BPSK	270	0	24.25					
100	QPSK	1	1	24.76					
100	QPSK	1	137	24.72			25.0	0.0	
100	QPSK	1	271	24.62					
100	QPSK	135	0	23.64			24.0	1.0	
100	QPSK	135	69	24.54			25.0	0.0	
100	QPSK	135	138	23.71			24.0	1.0	
100	QPSK	270	0	23.66					
100	16QAM	1	1	23.54			24.0	1.0	
100	16QAM	1	1	22.20			22.5	2.5	
100	256QAM	1	1	20.25			20.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.59	24.48	24.51	25.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.36	24.49	24.53	25.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.53	24.47	24.60	25.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.53	24.64	24.60	25.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.46	24.46	24.50	25.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.37	24.57	24.68	25.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.44	24.64	24.51	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.46	24.57	24.55	25.0	0.0	

SA PC2 n78 Ant12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	27.11					
100	PI2 BPSK	1	137	27.57			28.0	0.0	
100	PI2 BPSK	1	271	27.59					
100	PI2 BPSK	135	0	26.98			27.5	0.5	
100	PI2 BPSK	135	69	27.57			28.0	0.0	
100	PI2 BPSK	135	138	26.96			27.5	0.5	
100	PI2 BPSK	270	0	27.08					
100	QPSK	1	1	27.75					
100	QPSK	1	137	27.71			28.0	0.0	
100	QPSK	1	271	27.69					
100	QPSK	135	0	26.58			27.0	1.0	
100	QPSK	135	69	27.65			28.0	0.0	
100	QPSK	135	138	26.96			27.0	1.0	
100	QPSK	270	0	26.70					
100	16QAM	1	1	26.76			27.0	1.0	
100	16QAM	1	1	24.41			25.5	2.5	
100	256QAM	1	1	23.06			23.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	27.48	27.61	27.29	28.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	27.44	27.57	27.44	28.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	27.47	27.47	27.29	28.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	27.47	27.62	27.33	28.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	27.47	27.58	27.52	28.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	27.59	27.61	27.45	28.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	27.36	27.59	27.38	28.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	27.45	27.62	27.34	28.0	0.0	



SA PC2 Par27Q n78 Ant12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63334									
Frequency (MHz) 3500.01									
100	PI2 BPSK	1	1	27.65					
100	PI2 BPSK	1	137	27.60			28.0	0.0	
100	PI2 BPSK	1	271	27.61					
100	PI2 BPSK	135	0	27.22			27.5	0.5	
100	PI2 BPSK	135	69	27.00			28.0	0.0	
100	PI2 BPSK	135	138	27.21			27.5	0.5	
100	PI2 BPSK	270	0	27.23					
100	QPSK	1	1	27.86					
100	QPSK	1	137	27.07			28.0	0.0	
100	QPSK	1	271	27.84					
100	QPSK	135	0	26.85			27.0	1.0	
100	QPSK	135	69	27.61			28.0	0.0	
100	QPSK	135	138	26.91			27.0	1.0	
100	QPSK	270	0	26.80					
100	16QAM	1	1		26.83		27.0	1.0	
100	8QAM	1	1		26.40		25.5	2.5	
100	25QAM	1	1		23.37		23.5	4.5	
Channel 63300									
Frequency (MHz) 3495									
90	PI2 BPSK	1	1	27.68	27.72	27.69	28.0	0.0	
Channel 63334									
Frequency (MHz) 3496.02									
80	PI2 BPSK	1	1	27.54	27.68	27.52	28.0	0.0	
Channel 63368									
Frequency (MHz) 3485.01									
70	PI2 BPSK	1	1	27.59	27.85	27.44	28.0	0.0	
Channel 63200									
Frequency (MHz) 3485.01									
60	PI2 BPSK	1	1	27.85	27.87	27.84	28.0	0.0	
Channel 63168									
Frequency (MHz) 3476.02									
50	PI2 BPSK	1	1	27.53	27.60	27.59	28.0	0.0	
Channel 63334									
Frequency (MHz) 3476.01									
40	PI2 BPSK	1	1	27.51	27.69	27.24	28.0	0.0	
Channel 63300									
Frequency (MHz) 3465									
30	PI2 BPSK	1	1	27.61	27.76	27.62	28.0	0.0	
Channel 63068									
Frequency (MHz) 3460.02									
20	PI2 BPSK	1	1	27.66	27.77	27.52	28.0	0.0	

PC3 n78 Ant12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63334									
Frequency (MHz) 3750									
100	PI2 BPSK	1	1	26.22					
100	PI2 BPSK	1	137	26.10			26.5	0.0	
100	PI2 BPSK	1	271	26.08					
100	PI2 BPSK	135	0	26.19			26.5	0.0	
100	PI2 BPSK	135	69	26.13			26.5	0.0	
100	PI2 BPSK	135	138	26.15			26.5	0.0	
100	PI2 BPSK	270	0	26.18					
100	QPSK	1	1	26.31					
100	QPSK	1	137	26.11			26.5	0.0	
100	QPSK	1	271	26.23					
100	QPSK	135	0	26.22			26.5	0.0	
100	QPSK	135	69	26.24			26.5	0.0	
100	QPSK	135	138	26.18			26.5	0.0	
100	QPSK	270	0	26.01					
100	16QAM	1	1		26.08		26.5	0.0	
100	8QAM	1	1		25.12		25.5	1.0	
100	25QAM	1	1		23.33		23.5	3.0	
Channel 64968									
Frequency (MHz) 3745.02									
90	PI2 BPSK	1	1	25.85	25.80	25.69	26.5	0.0	
Channel 65000									
Frequency (MHz) 3740.01									
80	PI2 BPSK	1	1	25.96	26.11	25.82	26.5	0.0	
Channel 64968									
Frequency (MHz) 3735									
70	PI2 BPSK	1	1	26.00	26.00	25.82	26.5	0.0	
Channel 65000									
Frequency (MHz) 3735.02									
60	PI2 BPSK	1	1	25.92	26.10	25.80	26.5	0.0	
Channel 64834									
Frequency (MHz) 3725.01									
50	PI2 BPSK	1	1	26.03	26.04	25.73	26.5	0.0	
Channel 65000									
Frequency (MHz) 3720									
40	PI2 BPSK	1	1	25.95	26.11	25.69	26.5	0.0	
Channel 64768									
Frequency (MHz) 3715.02									
30	PI2 BPSK	1	1	26.00	26.01	25.71	26.5	0.0	
Channel 65000									
Frequency (MHz) 3710.01									
20	PI2 BPSK	1	1	26.08	25.95	25.86	26.5	0.0	

PC3 Par27Q n78 Ant12									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel 63300									
Frequency (MHz) 3495									
90	PI2 BPSK	1	1	27.68	27.65	27.61	28.0	0.0	
Channel 63334									
Frequency (MHz) 3496.02									
80	PI2 BPSK	1	1	27.54	27.68	27.52	28.0	0.0	
Channel 63368									
Frequency (MHz) 3485.01									
70	PI2 BPSK	1	1	27.59	27.87	27.44	28.0	0.0	
Channel 63200									
Frequency (MHz) 3485.01									
60	PI2 BPSK	1	1	27.85	27.87	27.84	28.0	0.0	
Channel 63168									
Frequency (MHz) 3476.02									
50	PI2 BPSK	1	1	27.53	27.60	27.59	28.0	0.0	
Channel 63334									
Frequency (MHz) 3476.01									
40	PI2 BPSK	1	1	27.51	27.69	27.24	28.0	0.0	
Channel 63300									
Frequency (MHz) 3465									
30	PI2 BPSK	1	1	27.61	27.76	27.62	28.0	0.0	
Channel 63068									
Frequency (MHz) 3460.02									
20	PI2 BPSK	1	1	27.66	27.77	27.52	28.0	0.0	



Reduced power level for 5G NR

n5 Ant1_DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pl2 BPSK	1	1	23.40	23.11	23.37	24.0	0.0	
20	Pl2 BPSK	1	53	23.22	23.35	23.44			
20	Pl2 BPSK	1	104	23.26	23.29	23.48			
20	Pl2 BPSK	50	0	23.34	23.18	23.26	24.0	0.0	
20	Pl2 BPSK	50	28	23.43	23.35	23.34	24.0	0.0	
20	Pl2 BPSK	50	56	23.09	23.04	23.34	24.0	0.0	
20	Pl2 BPSK	100	0	23.39	23.06	23.35	24.0	0.0	
20	QPSK	1	1	23.33	23.00	23.36	24.0	0.0	
20	QPSK	1	53	23.41	23.40	23.42			
20	QPSK	1	104	23.49	23.25	23.36			
20	QPSK	50	0	23.41	23.16	23.34	24.0	0.0	
20	QPSK	50	28	23.30	23.05	23.40	24.0	0.0	
20	QPSK	50	56	23.16	23.26	23.38	24.0	0.0	
20	QPSK	100	0	23.29	23.36	23.35	24.0	0.0	
20	16QAM	1	1	23.31	23.20	23.45	24.0	0.0	
20	64QAM	1	1	22.24	22.51	22.37	23.0	1.0	
20	256QAM	1	1	20.38	20.69	20.37	21.0	3.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	23.01	23.48	23.13	24.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	23.09	23.32	23.12	24.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	23.10	23.33	23.21	24.0	0.0	

n5 Ant1_DSI 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pl2 BPSK	1	1	22.45	22.13	22.27	23.0	0.0	
20	Pl2 BPSK	1	53	22.31	22.25	22.36			
20	Pl2 BPSK	1	104	22.26	22.37	22.40			
20	Pl2 BPSK	50	0	22.29	22.21	22.30	23.0	0.0	
20	Pl2 BPSK	50	28	22.36	22.24	22.38	23.0	0.0	
20	Pl2 BPSK	50	56	22.14	22.11	22.30	23.0	0.0	
20	Pl2 BPSK	100	0	22.35	22.18	22.32	23.0	0.0	
20	QPSK	1	1	22.41	22.56	22.42	23.0	0.0	
20	QPSK	1	53	22.46	22.45	22.45			
20	QPSK	1	104	22.49	22.26	22.33			
20	QPSK	50	0	22.33	22.24	22.40	23.0	0.0	
20	QPSK	50	28	22.34	22.49	22.38	23.0	0.0	
20	QPSK	50	56	22.23	22.32	22.31	23.0	0.0	
20	QPSK	100	0	22.27	22.36	22.34	23.0	0.0	
20	16QAM	1	1	22.33	22.26	22.51	23.0	0.0	
20	64QAM	1	1	22.40	22.34	22.33	23.0	0.0	
20	256QAM	1	1	20.25	20.53	20.49	21.0	2.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.29	22.20	22.31	23.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.24	22.24	22.28	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.18	22.30	22.41	23.0	0.0	

n7 Ant1_DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pl2 BPSK	1	1	21.41	21.56	21.38	23.0	0.0	
20	Pl2 BPSK	1	53	21.23	21.39	21.28			
20	Pl2 BPSK	1	104	21.33	21.38	21.13			
20	Pl2 BPSK	50	0	21.25	21.29	21.34	23.0	0.0	
20	Pl2 BPSK	50	28	21.36	21.29	21.51	23.0	0.0	
20	Pl2 BPSK	50	56	21.50	21.12	21.41	23.0	0.0	
20	Pl2 BPSK	100	0	21.26	21.38	21.39	23.0	0.0	
20	QPSK	1	1	21.25	21.60	21.25	23.0	0.0	
20	QPSK	1	53	21.34	21.58	21.48			
20	QPSK	1	104	21.27	21.49	21.34			
20	QPSK	50	0	21.49	21.58	21.52	23.0	0.0	
20	QPSK	50	28	21.48	21.45	21.25	23.0	0.0	
20	QPSK	50	56	21.20	21.35	21.37	23.0	0.0	
20	QPSK	100	0	21.45	21.50	21.25	23.0	0.0	
20	16QAM	1	1	21.30	21.41	21.47	23.0	0.0	
20	64QAM	1	1	20.79	21.04	20.78	22.5	0.5	
20	256QAM	1	1	18.66	19.07	18.85	20.5	2.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.94	21.35	20.99	22.0	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	21.08	21.34	21.01	23.0	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	21.03	21.28	20.94	23.0	0.0	



n7 Ant1_DSI 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.97	21.95	21.91	23.5	0.0
20	PI/2 BPSK	1	53	21.79	21.85	21.81		
20	PI/2 BPSK	1	104	21.79	21.81	21.72		
20	PI/2 BPSK	50	0	21.72	21.91	21.94	23.5	0.0
20	PI/2 BPSK	50	28	21.95	21.84	21.97	23.5	0.0
20	PI/2 BPSK	50	56	21.95	21.73	21.87	23.5	0.0
20	PI/2 BPSK	100	0	21.73	21.83	21.86		
20	QPSK	1	1	21.75	22.05	21.73		
20	QPSK	1	53	21.81	21.88	21.97	23.5	0.0
20	QPSK	1	104	21.86	21.97	21.96		
20	QPSK	50	0	21.95	21.99	21.96	23.5	0.0
20	QPSK	50	28	21.98	22.00	21.81	23.5	0.0
20	QPSK	50	56	21.81	21.77	21.79	23.5	0.0
20	QPSK	100	0	21.89	21.95	21.87		
20	16QAM	1	1	21.84	21.88	21.93	23.5	0.0
20	64QAM	1	1	20.87	20.81	20.89	22.5	1.0
20	256QAM	1	1	18.89	18.82	18.91	20.5	3.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	QPSK	1	1	21.24	21.33	21.54	23.5	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	QPSK	1	1	21.44	21.81	21.57	23.5	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2492.5	2535	2477.5	(dBm)	(dB)
5	QPSK	1	1	21.60	21.80	21.55	23.5	0.0



n38 Ant1_DSI 3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519000	519000	520000	
Frequency (MHz)				2580	2595	2610	
20	Pl2 BPSK	1	1	21.66	21.79	21.72	23.5
20	Pl2 BPSK	1	26	21.72	21.81	21.52	0.0
20	Pl2 BPSK	1	49	21.64	21.75	21.76	23.5
20	Pl2 BPSK	25	0	21.87	21.85	21.66	0.0
20	Pl2 BPSK	25	13	21.60	21.80	21.81	23.5
20	Pl2 BPSK	25	28	21.57	21.81	21.77	0.0
20	Pl2 BPSK	50	0	21.82	21.94	21.95	23.5
20	QPSK	1	1	21.82	22.00	21.87	0.0
20	QPSK	1	26	21.78	21.73	21.90	23.5
20	QPSK	1	49	21.89	21.77	21.78	0.0
20	QPSK	25	0	21.62	21.73	21.68	23.5
20	QPSK	25	13	21.63	21.88	21.87	0.0
20	QPSK	25	28	20.78	20.74	20.76	23.5
20	QPSK	50	0	21.64	21.73	21.71	0.0
20	16QAM	1	1	21.67	21.78	21.57	23.5
20	16QAM	1	1	21.23	21.54	21.28	23.0
20	25QAM	1	1	19.27	19.38	19.45	21.0

n38 Ant1_DSI 5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				519000	519000	520000	
Frequency (MHz)				2680	2695	2610	
20	Pl2 BPSK	1	1	22.72	22.84	22.75	24.5
20	Pl2 BPSK	1	26	22.73	22.82	22.96	0.0
20	Pl2 BPSK	1	49	22.76	22.88	22.83	24.5
20	Pl2 BPSK	25	0	22.76	22.87	22.75	0.0
20	Pl2 BPSK	25	13	22.70	22.74	22.81	24.5
20	Pl2 BPSK	25	28	22.91	22.88	22.87	0.0
20	Pl2 BPSK	50	0	22.85	22.87	22.86	24.5
20	QPSK	1	1	22.88	22.92	22.87	0.0
20	QPSK	1	26	22.89	22.83	22.89	24.5
20	QPSK	1	49	22.77	22.78	22.72	0.0
20	QPSK	25	0	22.63	22.74	22.76	24.5
20	QPSK	25	13	22.75	22.78	22.78	24.5
20	QPSK	25	28	21.81	21.78	21.67	24.5
20	QPSK	50	0	22.65	22.67	22.64	0.0
20	16QAM	1	1	22.79	22.74	22.65	24.5
20	16QAM	1	1	21.53	21.46	21.58	23.0
20	25QAM	1	1	19.48	19.43	19.53	21.0

n41 Ant1_DSI 3							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				509000	518998	529998	
Frequency (MHz)				2646.01	2692.99	2640	
100	Pl2 BPSK	1	1	21.92	21.74	21.88	23.5
100	Pl2 BPSK	1	137	21.47	21.89	21.58	0.0
100	Pl2 BPSK	1	271	21.86	21.81	21.40	23.5
100	Pl2 BPSK	135	0	21.07	21.78	20.86	0.0
100	Pl2 BPSK	135	69	21.78	21.82	21.71	23.5
100	Pl2 BPSK	135	138	21.79	21.75	21.75	0.0
100	Pl2 BPSK	270	0	21.89	21.70	21.93	23.5
100	QPSK	1	1	21.84	22.02	22.01	0.0
100	QPSK	1	137	21.64	21.95	21.72	23.5
100	QPSK	1	271	21.80	21.86	21.93	0.0
100	QPSK	135	0	20.66	20.79	20.71	23.5
100	QPSK	135	69	21.90	21.84	21.81	23.5
100	QPSK	135	138	21.68	21.77	21.72	23.5
100	QPSK	270	0	21.89	21.90	21.79	0.0
100	16QAM	1	1	21.86	21.92	21.72	23.5
100	16QAM	1	1	21.37	21.59	21.60	23.0
100	25QAM	1	1	19.33	19.56	19.62	21.0
Channel				509200	518998	529998	
Frequency (MHz)				2541	2592.99	2644.98	
90	QPSK	1	1	21.54	21.94	21.85	23.5
Channel				512204	518998	529998	
Frequency (MHz)				2536.02	2592.99	2646.99	
80	QPSK	1	1	21.57	21.84	21.87	23.5
Channel				505200	518998	531998	
Frequency (MHz)				2526	2592.99	2659.98	
60	QPSK	1	1	21.64	21.92	21.71	23.5
Channel				504204	518998	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	QPSK	1	1	21.64	21.83	21.70	23.5
Channel				503202	518998	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	QPSK	1	1	21.56	21.90	21.80	23.5
Channel				502200	518998	534998	
Frequency (MHz)				2511	2592.99	2674.98	
30	QPSK	1	1	21.55	21.82	21.71	23.5
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	QPSK	1	1	21.55	21.73	21.80	23.5



n41 Ant1_DSI 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				50902	51898	52800		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.86	22.86	22.78		
100	PI/2 BPSK	1	137	22.57	22.90	22.70	24.5	0.0
100	PI/2 BPSK	1	271	22.60	22.72	22.51		
100	PI/2 BPSK	135	0	21.98	22.87	21.92	24.5	0.0
100	PI/2 BPSK	135	69	22.70	22.87	22.81	24.5	0.0
100	PI/2 BPSK	135	138	22.82	22.74	22.78		
100	PI/2 BPSK	270	0	22.84	22.80	22.83	24.5	0.0
100	QPSK	1	1	22.89	22.92	22.90		
100	QPSK	1	137	22.71	22.87	22.80	24.5	0.0
100	QPSK	1	271	22.72	22.86	22.83		
100	QPSK	135	0	21.77	21.86	21.84	24.5	0.0
100	QPSK	135	69	22.84	22.86	22.73	24.5	0.0
100	QPSK	135	138	22.82	22.74	22.73		
100	QPSK	270	0	22.80	22.85	22.79	24.5	0.0
100	16QAM	1	1	22.82	22.83	22.70	24.5	0.0
100	64QAM	1	1	21.51	21.49	21.40	23.0	1.5
100	256QAM	1	1	18.46	18.48	18.47	21.0	3.5
Channel				508200	51898	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.58	22.85	22.83	24.5	0.0
Channel				519204	51898	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.79	22.75	22.86	24.5	0.0
Channel				505200	51898	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2569	2592.99	2649.98		
60	QPSK	1	1	22.78	22.85	22.82	24.5	0.0
Channel				504204	51898	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2591.02	2592.99	2664.99		
50	QPSK	1	1	22.84	22.79	22.88	24.5	0.0
Channel				503202	51898	533000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.78	22.85	22.86	24.5	0.0
Channel				502200	51898	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.87	22.78	22.89	24.5	0.0
Channel				501204	51898	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.87	22.78	22.89	24.5	0.0

n66 Ant2_DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	23.21	23.25	23.21			
40	PI2 BPSK	1	108	23.18	23.22	23.15	23.5	0.0	
40	PI2 BPSK	1	214	23.16	23.16	23.11			
40	PI2 BPSK	108	0	23.10	23.11	23.03	23.5	0.0	
40	PI2 BPSK	108	54	22.94	23.15	23.05	23.5	0.0	
40	PI2 BPSK	108	108	23.23	23.24	23.05	23.5	0.0	
40	PI2 BPSK	216	0	23.11	23.19	23.17	23.5	0.0	
40	QPSK	1	1	23.22	23.29	23.14			
40	QPSK	1	108	23.14	23.27	23.10	23.5	0.0	
40	QPSK	1	214	23.21	23.22	22.94			
40	QPSK	108	0	23.08	23.11	23.10	23.5	0.0	
40	QPSK	108	54	23.13	23.25	23.14	23.5	0.0	
40	QPSK	108	108	23.11	23.14	23.14	23.5	0.0	
40	QPSK	216	0	23.15	23.20	23.11	23.5	0.0	
40	16QAM	1	1	23.16	23.17	23.19	23.5	0.0	
40	64QAM	1	1	23.10	22.85	22.82	23.0	0.5	
40	256QAM	1	1	20.39	20.35	20.37	21.0	2.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	23.15	23.19	23.23	23.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	23.17	23.18	23.15	23.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.14	23.23	23.16	23.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	23.08	23.20	23.17	23.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.16	23.24	23.22	23.5	0.0	

n66 Ant2_DSI 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI2 BPSK	1	1	21.20	21.13	21.15			
40	PI2 BPSK	1	108	21.07	21.23	21.16	21.5	0.0	
40	PI2 BPSK	1	214	21.20	21.22	21.10			
40	PI2 BPSK	108	0	21.05	21.11	20.93	21.5	0.0	
40	PI2 BPSK	108	54	20.83	21.07	21.11	21.5	0.0	
40	PI2 BPSK	108	108	21.25	21.14	21.09	21.5	0.0	
40	PI2 BPSK	216	0	21.19	21.23	21.09	21.5	0.0	
40	QPSK	1	1	21.12	21.32	21.26			
40	QPSK	1	108	21.08	21.22	21.09	21.5	0.0	
40	QPSK	1	214	21.12	21.27	20.91			
40	QPSK	108	0	21.15	21.12	21.05	21.5	0.0	
40	QPSK	108	54	21.13	21.28	21.24	21.5	0.0	
40	QPSK	108	108	21.04	21.08	21.25	21.5	0.0	
40	QPSK	216	0	21.14	21.19	21.10	21.5	0.0	
40	16QAM	1	1	21.18	21.06	21.14	21.5	0.0	
40	64QAM	1	1	21.12	21.18	21.08	21.5	0.0	
40	256QAM	1	1	21.10	20.80	20.80	21.0	0.5	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	QPSK	1	1	21.20	21.13	21.15	21.5	0.0	
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	1	21.26	21.27	21.18	21.5	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	21.22	21.24	21.26	21.5	0.0	
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	21.11	21.27	21.18	21.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	21.15	21.26	21.10	21.5	0.0	



n5 Ant4 DSI 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	19.98	19.95	20.11			
20	Pi/2 BPSK	1	53	20.20	20.11	20.15	20.5	0.0	
20	Pi/2 BPSK	1	104	19.64	19.81	19.85			
20	Pi/2 BPSK	50	0	20.04	20.14	20.08	20.5	0.0	
20	Pi/2 BPSK	50	28	20.08	20.09	19.92	20.5	0.0	
20	Pi/2 BPSK	50	56	19.94	19.95	20.00			
20	Pi/2 BPSK	100	0	19.90	20.15	20.08	20.5	0.0	
20	QPSK	1	1	20.12	20.27	20.18			
20	QPSK	1	53	20.08	20.23	20.21	20.5	0.0	
20	QPSK	1	104	20.17	20.00	20.02			
20	QPSK	50	0	20.16	20.17	20.15	20.5	0.0	
20	QPSK	50	28	19.92	20.23	20.22	20.5	0.0	
20	QPSK	50	56	20.14	20.19	20.05			
20	QPSK	100	0	20.13	20.24	20.07	20.5	0.0	
20	16QAM	1	1	20.24	20.11	20.00	20.5	0.0	
20	64QAM	1	1	19.88	20.16	20.17	20.5	0.0	
20	256QAM	1	1	20.07	20.09	20.10	20.5	0.0	
Channel				168300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	19.93	20.10	19.91	20.5	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	19.94	20.07	19.92	20.5	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	19.92	20.17	19.91	20.5	0.0	

n5 Ant4 DSI 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	Pi/2 BPSK	1	1	21.52	21.44	21.52			
20	Pi/2 BPSK	1	53	21.61	21.53	21.57	22.0	0.0	
20	Pi/2 BPSK	1	104	21.23	21.35	21.33			
20	Pi/2 BPSK	50	0	21.58	21.57	21.55	22.0	0.0	
20	Pi/2 BPSK	50	28	21.61	21.52	21.50	22.0	0.0	
20	Pi/2 BPSK	50	56	21.39	21.44	21.47			
20	Pi/2 BPSK	100	0	21.43	21.54	21.57	22.0	0.0	
20	QPSK	1	1	21.55	21.67	21.66			
20	QPSK	1	53	21.58	21.64	21.64	22.0	0.0	
20	QPSK	1	104	21.55	21.51	21.57			
20	QPSK	50	0	21.62	21.62	21.64	22.0	0.0	
20	QPSK	50	28	21.53	21.65	21.63	22.0	0.0	
20	QPSK	50	56	21.64	21.59	21.55			
20	QPSK	100	0	21.57	21.64	21.57	22.0	0.0	
20	16QAM	1	1	21.66	21.57	21.59	22.0	0.0	
20	64QAM	1	1	21.50	21.55	21.62	22.0	0.0	
20	256QAM	1	1	20.60	20.56	20.59	21.0	1.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	21.64	21.44	21.45	22.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	21.65	21.59	21.63	22.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	21.62	21.60	21.50	22.0	0.0	



PC3 n77 Ant4 DSI 1&5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.99	15.91	15.99		
100	PI2 BPSK	1	137	16.04	16.03	15.99	17.0	0.0
100	PI2 BPSK	1	271	15.92	16.01	15.96		
100	PI2 BPSK	135	0	15.90	15.94	15.93	17.0	0.0
100	PI2 BPSK	135	69	16.01	16.03	15.91	17.0	0.0
100	PI2 BPSK	135	138	16.01	16.00	16.03	17.0	0.0
100	PI2 BPSK	270	0	15.98	16.04	16.05		
100	QPSK	1	1	16.05	16.07	16.05		
100	QPSK	1	137	16.03	16.01	16.02	17.0	0.0
100	QPSK	1	271	16.04	15.96	15.85		
100	QPSK	135	0	15.97	16.01	15.96	17.0	0.0
100	QPSK	135	69	16.01	16.03	16.02	17.0	0.0
100	QPSK	135	138	15.99	16.00	16.02	17.0	0.0
100	QPSK	270	0	15.95	16.02	16.00		
100	16QAM	1	1	16.00	16.03	16.05	17.0	0.0
100	16QAM	1	1	16.96	16.91	16.01	17.0	0.0
100	256QAM	1	1	16.01	16.02	16.02	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.88	15.96	15.96	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.03	15.83	15.90	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.03	15.79	15.90	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.97	15.83	16.00	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.05	15.90	16.02	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.07	15.98	16.03	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.00	15.99	15.98	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.93	15.90	16.05	17.0	0.0

PC3 Part27Q n77 Ant4 DSI 1&5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.99	15.99	15.99		
100	PI2 BPSK	1	137	15.95	15.95	15.85	17.0	0.0
100	PI2 BPSK	1	271	15.93	15.93	15.93		
100	PI2 BPSK	135	0	16.71	16.71	16.71	17.0	0.0
100	PI2 BPSK	135	69	16.99	16.99	16.99	17.0	0.0
100	PI2 BPSK	135	138	16.94	16.94	16.94	17.0	0.0
100	PI2 BPSK	270	0	15.94	15.94	15.94		
100	QPSK	1	1	15.99	15.99	15.99		
100	QPSK	1	137	15.96	15.96	15.96	17.0	0.0
100	QPSK	1	271	15.95	15.95	15.95		
100	QPSK	135	0	15.78	15.78	15.78	17.0	0.0
100	QPSK	135	69	15.97	15.97	15.97	17.0	0.0
100	QPSK	135	138	15.96	15.96	15.96	17.0	0.0
100	QPSK	270	0	15.96	15.96	15.96		
100	16QAM	1	1	15.95	15.95	15.95	17.0	0.0
100	16QAM	1	1	15.75	15.75	15.75	17.0	0.0
100	256QAM	1	1	15.98	15.98	15.98	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.72	15.75	15.78	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.09	15.79	15.89	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.73	15.88	15.86	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.76	15.75	15.70	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.78	15.74	15.85	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.79	15.81	15.77	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.87	15.81	15.89	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.86	15.85	15.79	17.0	0.0

PC3 n77 Ant4 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.87	16.81	17.07		
100	PI2 BPSK	1	137	16.94	17.08	16.98	18.0	0.0
100	PI2 BPSK	1	271	16.82	16.94	17.03		
100	PI2 BPSK	135	0	16.79	16.90	16.83	18.0	0.0
100	PI2 BPSK	135	69	17.08	17.07	16.79	18.0	0.0
100	PI2 BPSK	135	138	17.00	16.91	17.09	18.0	0.0
100	PI2 BPSK	270	0	17.00	17.15	16.99		
100	QPSK	1	1	17.10	17.17	16.83		
100	QPSK	1	137	16.94	16.83	16.98	18.0	0.0
100	QPSK	1	271	16.90	16.90	16.83		
100	QPSK	135	0	17.08	17.02	17.02	18.0	0.0
100	QPSK	135	69	17.08	17.10	17.01	18.0	0.0
100	QPSK	135	138	16.90	16.97	17.04	18.0	0.0
100	QPSK	270	0	16.83	17.10	16.94		
100	16QAM	1	1	16.88	17.10	17.13	18.0	0.0
100	16QAM	1	1	16.84	16.98	16.91	18.0	0.0
100	256QAM	1	1	17.09	17.05	17.00	18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.94	17.08	16.98	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.00	17.02	17.04	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.98	17.09	17.10	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.16	16.92	17.11	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.93	17.00	16.88	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.03	17.01	17.01	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.92	16.92	16.94	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.98	17.04	16.92	18.0	0.0



PC3 Part27Q n77 Ant4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.00	3500.01				
100	PI2 BPSK	1	137	16.95	16.95		18.0	0.0	
100	PI2 BPSK	1	271	16.81					
100	PI2 BPSK	135	0	16.74			18.0	0.0	
100	PI2 BPSK	135	69	16.79			18.0	0.0	
100	PI2 BPSK	135	138	16.84			18.0	0.0	
100	PI2 BPSK	270	0	17.01					
100	QPSK	1	1	17.08					
100	QPSK	1	137	16.84			18.0	0.0	
100	QPSK	1	271	16.99					
100	QPSK	135	0	16.87			18.0	0.0	
100	QPSK	135	69	17.04			18.0	0.0	
100	QPSK	135	138	16.91			18.0	0.0	
100	QPSK	270	0	16.86					
100	16QAM	1	1	17.03			18.0	0.0	
100	64QAM	1	1	16.85			18.0	0.0	
100	256QAM	1	1	16.94			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.89	16.99	16.98	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.96	16.97	16.78	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.88	16.88	16.90	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.79	16.99	16.99	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.95	16.80	16.81	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.85	16.83	16.84	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.84	16.88	16.79	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.75	16.99	16.86	18.0	0.0	

SA PC2 n78 Ant4 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.57	3750				
100	PI2 BPSK	1	137	16.63			18.0	0.0	
100	PI2 BPSK	1	271	16.70					
100	PI2 BPSK	135	0	16.69			18.0	0.0	
100	PI2 BPSK	135	69	16.65			18.0	0.0	
100	PI2 BPSK	135	138	16.65			18.0	0.0	
100	PI2 BPSK	270	0	16.72					
100	QPSK	1	1	16.73					
100	QPSK	1	137	16.72			18.0	0.0	
100	QPSK	1	271	16.70					
100	QPSK	135	0	16.69			18.0	0.0	
100	QPSK	135	69	16.76			18.0	0.0	
100	QPSK	135	138	16.68			18.0	0.0	
100	QPSK	270	0	16.68					
100	16QAM	1	1	16.63			18.0	0.0	
100	64QAM	1	1	16.75			18.0	0.0	
100	256QAM	1	1	16.72			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.40	16.56	16.28	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.56	16.49	16.21	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.43	16.56	16.20	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.46	16.59	16.24	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.52	16.64	16.42	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.51	16.42	16.33	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.49	16.52	16.21	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.51	16.64	16.36	18.0	0.0	

SA PC2 Part27Q n78 Ant4 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.68	3500.01				
100	PI2 BPSK	1	137	16.64			18.0	0.0	
100	PI2 BPSK	1	271	16.68					
100	PI2 BPSK	135	0	16.65			18.0	0.0	
100	PI2 BPSK	135	69	16.64			18.0	0.0	
100	PI2 BPSK	135	138	16.56			18.0	0.0	
100	PI2 BPSK	270	0	16.63					
100	QPSK	1	1	16.69					
100	QPSK	1	137	16.60			18.0	0.0	
100	QPSK	1	271	16.65					
100	QPSK	135	0	16.64			18.0	0.0	
100	QPSK	135	69	16.96			18.0	0.0	
100	QPSK	135	138	16.65			18.0	0.0	
100	QPSK	270	0	16.65					
100	16QAM	1	1	16.52			18.0	0.0	
100	64QAM	1	1	16.62			18.0	0.0	
100	256QAM	1	1	16.67			18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.41	16.60	16.42	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.42	16.60	16.46	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.31	16.40	16.41	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.21	16.43	16.35	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.34	16.63	16.56	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.43	16.59	16.37	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.36	16.46	16.49	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.32	16.60	16.37	18.0	0.0	



NSA PC3 n78 Ant4 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.07	13.10	13.13			
100	PI2 BPSK	1	137	13.13	13.14	13.15	14.5	0.0	
100	PI2 BPSK	1	271	13.20	13.18	13.16			
100	PI2 BPSK	135	0	13.19	13.15	13.13	14.5	0.0	
100	PI2 BPSK	135	69	13.16	13.14	13.12	14.5	0.0	
100	PI2 BPSK	135	138	13.15	13.08	13.06	14.5	0.0	
100	PI2 BPSK	270	0	13.22	13.13	13.10			
100	QPSK	1	1	13.23	13.19	13.16	14.5	0.0	
100	QPSK	1	137	13.22	13.10	13.07			
100	QPSK	1	271	13.20	13.16	13.13			
100	QPSK	135	0	13.19	13.14	13.11	14.5	0.0	
100	QPSK	135	69	13.20	13.16	13.12	14.5	0.0	
100	QPSK	135	138	13.18	13.15	13.11	14.5	0.0	
100	QPSK	270	0	13.16	13.15	13.14			
100	16QAM	1	1	13.13	13.02	12.99	14.5	0.0	
100	16QAM	1	1	13.20	13.12	13.02	14.5	0.0	
100	256QAM	1	1	13.22	13.17	13.17	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.90	13.06	12.76	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	13.06	12.99	12.71	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.93	13.06	12.70	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.98	13.09	12.74	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	13.02	13.14	12.92	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.99	13.02	12.71	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.89	12.92	12.83	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	13.01	13.14	12.86	14.5	0.0	

NSA PC3 Part270 n78 Ant4 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	13.10	13.10	13.10			
100	PI2 BPSK	1	137	13.14	13.14	13.14	14.5	0.0	
100	PI2 BPSK	1	271	13.18	13.18	13.18			
100	PI2 BPSK	135	0	13.15	13.15	13.15	14.5	0.0	
100	PI2 BPSK	135	69	13.14	13.14	13.14	14.5	0.0	
100	PI2 BPSK	135	138	13.08	13.08	13.08	14.5	0.0	
100	PI2 BPSK	270	0	13.13	13.13	13.13			
100	QPSK	1	1	13.19	13.19	13.19	14.5	0.0	
100	QPSK	1	137	13.10	13.10	13.10			
100	QPSK	1	271	13.16	13.16	13.16			
100	QPSK	135	0	13.14	13.14	13.14	14.5	0.0	
100	QPSK	135	69	13.16	13.16	13.16	14.5	0.0	
100	QPSK	135	138	13.15	13.15	13.15	14.5	0.0	
100	QPSK	270	0	13.15	13.15	13.15			
100	16QAM	1	1	13.02	13.02	13.02	14.5	0.0	
100	16QAM	1	1	13.12	13.12	13.12	14.5	0.0	
100	256QAM	1	1	13.17	13.17	13.17	14.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.91	13.10	12.92	14.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.92	13.10	12.96	14.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.81	12.90	12.91	14.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.71	12.93	12.85	14.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.74	13.15	13.06	14.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.83	13.09	12.87	14.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.86	12.96	12.99	14.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.82	13.10	12.87	14.5	0.0	

SA PC2 n78 Ant4 DSI 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.84	21.84	21.84			
100	PI2 BPSK	1	137	21.86	21.86	21.86	23.0	0.0	
100	PI2 BPSK	1	271	21.81	21.81	21.81			
100	PI2 BPSK	135	0	21.85	21.85	21.85	23.0	0.0	
100	PI2 BPSK	135	69	21.88	21.88	21.88	23.0	0.0	
100	PI2 BPSK	135	138	21.85	21.85	21.85	23.0	0.0	
100	PI2 BPSK	270	0	21.90	21.90	21.90			
100	QPSK	1	1	22.03	22.03	22.03	23.0	0.0	
100	QPSK	1	137	21.85	21.85	21.85			
100	QPSK	1	271	22.00	22.00	22.00			
100	QPSK	135	0	21.88	21.88	21.88	23.0	0.0	
100	QPSK	135	69	21.88	21.88	21.88	23.0	0.0	
100	QPSK	135	138	21.84	21.84	21.84	23.0	0.0	
100	QPSK	270	0	21.94	21.94	21.94			
100	16QAM	1	1	21.91	21.91	21.91	23.0	0.0	
100	16QAM	1	1	21.99	21.99	21.99	23.0	0.0	
100	256QAM	1	1	21.78	21.78	21.78	23.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	21.68	21.78	21.69	23.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	21.68	21.64	21.69	23.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	21.59	21.74	21.71	23.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	21.65	21.52	21.70	23.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	21.61	21.76	21.63	23.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	21.68	21.67	21.72	23.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	21.75	21.78	21.70	23.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	21.73	21.72	21.84	23.0	0.0	



SA PC2 Part27Q n78 Ant4 DSI 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	21.75	3500.01		
100	PI2 BPSK	1	137	21.95		23.0	0.0
100	PI2 BPSK	1	271	22.00			
100	PI2 BPSK	135	0	21.97		23.0	0.0
100	PI2 BPSK	135	69	21.98		23.0	0.0
100	PI2 BPSK	135	138	21.93		23.0	0.0
100	PI2 BPSK	270	0	21.79		23.0	0.0
100	QPSK	1	1	22.07			
100	QPSK	1	137	21.97		23.0	0.0
100	QPSK	1	271	21.91			
100	QPSK	135	0	21.90		23.0	0.0
100	QPSK	135	69	22.06		23.0	0.0
100	QPSK	135	138	21.89		23.0	0.0
100	QPSK	270	0	21.96		23.0	0.0
100	16QAM	1	1	21.96		23.0	0.0
100	16QAM	1	1	21.87		23.0	0.0
100	256QAM	1	1	21.89		23.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	21.62	21.69	21.64	23.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	21.82	21.89	21.71	23.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	21.83	21.74	21.50	23.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	21.75	21.67	21.82	23.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	21.81	21.71	21.74	23.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.72	21.82	21.84	23.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	21.80	21.78	21.70	23.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	21.72	21.72	21.80	23.0

NSA PC3 n78 Ant4 DSI 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.71	3750		
100	PI2 BPSK	1	137	18.84		20.0	0.0
100	PI2 BPSK	1	271	18.77			
100	PI2 BPSK	135	0	18.67		20.0	0.0
100	PI2 BPSK	135	69	18.77		20.0	0.0
100	PI2 BPSK	135	138	18.90		20.0	0.0
100	PI2 BPSK	270	0	18.75		20.0	0.0
100	QPSK	1	1	18.97			
100	QPSK	1	137	18.94		20.0	0.0
100	QPSK	1	271	18.84			
100	QPSK	135	0	18.78		20.0	0.0
100	QPSK	135	69	18.94		20.0	0.0
100	QPSK	135	138	18.79		20.0	0.0
100	QPSK	270	0	18.77		20.0	0.0
100	16QAM	1	1	18.70		20.0	0.0
100	16QAM	1	1	18.86		20.0	0.0
100	256QAM	1	1	18.81		20.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.58	18.74	18.00	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.57	18.77	18.61	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.68	18.80	18.83	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.65	18.71	18.69	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.56	18.69	18.63	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.64	18.69	18.77	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.78	18.76	18.61	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.74	18.51	18.65	20.0

NSA PC3 Part27Q n78 Ant4 DSI 5							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	18.68	3500.01		
100	PI2 BPSK	1	137	18.89		20.0	0.0
100	PI2 BPSK	1	271	18.82			
100	PI2 BPSK	135	0	18.96		20.0	0.0
100	PI2 BPSK	135	69	18.97		20.0	0.0
100	PI2 BPSK	135	138	18.82		20.0	0.0
100	PI2 BPSK	270	0	18.85		20.0	0.0
100	QPSK	1	1	18.88			
100	QPSK	1	137	18.86		20.0	0.0
100	QPSK	1	271	18.78			
100	QPSK	135	0	18.67		20.0	0.0
100	QPSK	135	69	18.84		20.0	0.0
100	QPSK	135	138	18.81		20.0	0.0
100	QPSK	270	0	18.77		20.0	0.0
100	16QAM	1	1	18.84		20.0	0.0
100	16QAM	1	1	18.79		20.0	0.0
100	256QAM	1	1	18.69		20.0	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.24	18.69	18.49	20.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.70	18.77	18.61	20.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	18.83	18.77	18.44	20.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	18.83	18.76	18.71	20.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.54	18.73	18.80	20.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.70	18.83	18.73	20.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.67	18.77	18.84	20.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.92	18.71	18.79	20.0



SA PC2&NSA PC3 n78 Ant4 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq. 650000	MPR (dB)
Channel				3750	3750	3750	
Frequency (MHz)							
100	PI2 BPSK	1	1	15.81	16.16	16.09	
100	PI2 BPSK	1	137	16.15	16.12	15.88	17.5
100	PI2 BPSK	1	271	16.03	16.20	16.19	
100	PI2 BPSK	135	0	16.10	16.21	16.19	17.5
100	PI2 BPSK	135	69	16.13	16.09	16.04	17.5
100	PI2 BPSK	135	138	16.12	16.08	16.13	17.5
100	PI2 BPSK	270	0	16.14	16.15	16.01	17.5
100	QPSK	1	1	16.07	16.35	16.10	
100	QPSK	1	137	16.06	16.34	16.15	17.5
100	QPSK	1	271	16.20	16.11	16.11	
100	QPSK	135	0	16.12	16.10	16.06	17.5
100	QPSK	135	69	16.06	16.26	16.07	17.5
100	QPSK	135	138	15.93	16.25	15.99	17.5
100	QPSK	270	0	16.07	16.25	16.14	17.5
100	16QAM	1	1	16.06	16.11	16.06	17.5
100	16QAM	1	1	16.11	16.91	16.14	17.5
100	16QAM	1	1	16.13	16.24	16.20	17.5
Channel				648668	650000	650334	
Frequency (MHz)							
90	QPSK	1	1	16.12	16.21	16.13	17.5
Channel				649334	650000	650666	
Frequency (MHz)							
80	QPSK	1	1	16.06	16.24	15.95	17.5
Channel				649000	650000	650300	
Frequency (MHz)							
70	QPSK	1	1	16.08	16.21	16.16	17.5
Channel				648668	650000	651334	
Frequency (MHz)							
60	QPSK	1	1	16.01	16.27	16.13	17.5
Channel				648334	650000	651666	
Frequency (MHz)							
50	QPSK	1	1	15.96	16.23	15.94	17.5
Channel				648000	650000	652000	
Frequency (MHz)							
40	QPSK	1	1	16.03	16.29	16.02	17.5
Channel				647668	650000	652334	
Frequency (MHz)							
30	QPSK	1	1	16.13	16.33	16.16	17.5
Channel				647334	650000	652666	
Frequency (MHz)							
20	QPSK	1	1	15.93	16.31	16.04	17.5

SA PC2&NSA PC3 Part27Q n78 Ant4 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633334	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633334	MPR (dB)
Channel				3500.01			
Frequency (MHz)							
100	PI2 BPSK	1	1	16.09			
100	PI2 BPSK	1	137	16.14			17.5
100	PI2 BPSK	1	271	16.10			
100	PI2 BPSK	135	0	16.22			17.5
100	PI2 BPSK	135	69	16.22			17.5
100	PI2 BPSK	135	138	16.15			17.5
100	PI2 BPSK	270	0	16.08			17.5
100	QPSK	1	1	16.26			
100	QPSK	1	137	16.00			17.5
100	QPSK	1	271	16.05			
100	QPSK	135	0	16.08			17.5
100	QPSK	135	69	16.24			17.5
100	QPSK	135	138	16.23			17.5
100	QPSK	270	0	16.13			17.5
100	16QAM	1	1	15.96			17.5
100	16QAM	1	1	16.04			17.5
100	16QAM	1	1	16.24			17.5
Channel				633000	633334	633668	
Frequency (MHz)							
90	QPSK	1	1	15.98	16.25	16.18	17.5
Channel				632668	633334	634000	
Frequency (MHz)							
80	QPSK	1	1	16.01	16.18	16.11	17.5
Channel				632334	633334	634334	
Frequency (MHz)							
70	QPSK	1	1	16.08	16.23	16.13	17.5
Channel				632000	633334	634668	
Frequency (MHz)							
60	QPSK	1	1	15.92	16.24	16.15	17.5
Channel				631668	633334	635000	
Frequency (MHz)							
50	QPSK	1	1	16.07	16.19	16.14	17.5
Channel				631334	633334	635334	
Frequency (MHz)							
40	QPSK	1	1	16.05	16.21	15.99	17.5
Channel				631000	633334	635668	
Frequency (MHz)							
30	QPSK	1	1	15.99	16.18	16.19	17.5
Channel				630668	633334	636000	
Frequency (MHz)							
20	QPSK	1	1	16.07	16.23	16.01	17.5



n7 Ant5 DSI 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)	MPR (dB)	
20	PV2 BPSK	1	1	16.27	16.20	16.38	17.0	0.0	
20	PV2 BPSK	1	53	16.31	16.26	16.38			
20	PV2 BPSK	1	104	16.14	16.24	16.03			
20	PV2 BPSK	50	0	16.32	16.15	16.41	17.0	0.0	
20	PV2 BPSK	50	28	16.22	16.18	16.28	17.0	0.0	
20	PV2 BPSK	50	56	16.06	16.20	16.31	17.0	0.0	
20	PV2 BPSK	100	0	16.00	16.07	16.23			
20	PV2 BPSK	1	1	16.29	16.45	16.33			
20	QPSK	1	1	16.11	16.36	16.14	17.0	0.0	
20	QPSK	1	53	16.09	16.35	16.29	17.0	0.0	
20	QPSK	1	104	16.09	16.35	16.29			
20	QPSK	50	0	16.30	16.34	16.35			
20	QPSK	50	28	16.21	16.30	16.23	17.0	0.0	
20	QPSK	50	56	16.09	16.11	16.06	17.0	0.0	
20	QPSK	100	0	16.21	16.30	16.26			
20	QPSK	1	1	16.38	16.17	16.10			
20	16QAM	1	1	16.06	16.23	16.21	17.0	0.0	
20	64QAM	1	1	16.06	16.23	16.21	17.0	0.0	
20	256QAM	1	1	16.14	16.18	16.20	17.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	40	15.99	16.35	16.06	17.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	26	16.14	16.24	16.02	17.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	13	16.01	16.15	16.21	17.0	0.0	

n7 Ant5 DSI 3&5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560	Tune-up limit (dBm)	MPR (dB)	
20	PV2 BPSK	1	1	17.31	17.22	17.33	18.0	0.0	
20	PV2 BPSK	1	53	17.33	17.23	17.33			
20	PV2 BPSK	1	104	17.19	17.19	17.12			
20	PV2 BPSK	50	0	17.32	17.23	17.32	18.0	0.0	
20	PV2 BPSK	50	28	17.32	17.25	17.34	18.0	0.0	
20	PV2 BPSK	50	56	17.15	17.18	17.22	18.0	0.0	
20	PV2 BPSK	100	0	17.10	17.09	17.20			
20	PV2 BPSK	1	1	17.37	17.38	17.35			
20	QPSK	1	53	17.13	17.24	17.22	18.0	0.0	
20	QPSK	1	104	17.19	17.25	17.33	18.0	0.0	
20	QPSK	50	0	17.24	17.23	17.25			
20	QPSK	50	28	17.30	17.32	17.31			
20	QPSK	50	56	17.07	17.13	17.02	18.0	0.0	
20	QPSK	100	0	17.15	17.24	17.21			
20	QPSK	1	1	17.30	17.23	17.11			
20	16QAM	1	1	17.16	17.25	17.13	18.0	0.0	
20	64QAM	1	1	17.16	17.25	17.13	18.0	0.0	
20	256QAM	1	1	17.22	17.24	17.18	18.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	40	17.31	17.26	17.25	18.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	26	17.23	17.13	17.22	18.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	13	17.30	17.19	17.29	18.0	0.0	



n38 Ant5_DSI 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				516000	519000	522000		
Frequency (MHz)				2500	2505	2510		
20	PI2 BPSK	1	1	15.32	15.34	15.21		
20	PI2 BPSK	1	26	15.26	15.50	15.30	18.5	0.0
20	PI2 BPSK	1	49	15.37	15.30	15.28		
20	PI2 BPSK	25	0	15.23	15.30	15.27	18.5	0.0
20	PI2 BPSK	25	13	15.34	15.22	15.34	18.5	0.0
20	PI2 BPSK	25	26	15.27	15.45	15.30	18.5	0.0
20	PI2 BPSK	50	0	15.36	15.30	15.35	18.5	0.0
20	QPSK	1	1	15.40	15.55	15.22		
20	QPSK	1	26	15.32	15.37	15.00	18.5	0.0
20	QPSK	1	49	15.37	15.51	15.54		
20	QPSK	25	0	15.39	15.30	15.03	18.5	0.0
20	QPSK	25	13	15.18	15.42	15.31	18.5	0.0
20	QPSK	25	26	15.11	15.38	15.33	18.5	0.0
20	QPSK	50	0	15.24	15.44	15.19	18.5	0.0
20	16QAM	1	1	15.17	15.33	15.30	18.5	0.0
20	16QAM	1	1	15.22	15.49	15.22	18.5	0.0
20	16QAM	1	1	15.24	15.39	15.36	18.5	0.0

n38 Ant5_DSI 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				516000	519000	522000		
Frequency (MHz)				2500	2505	2510		
20	PI2 BPSK	1	1	17.53	17.30	17.29		
20	PI2 BPSK	1	26	17.31	17.36	17.30	18.5	0.0
20	PI2 BPSK	1	49	17.27	17.40	17.22		
20	PI2 BPSK	25	0	17.20	17.27	17.13	18.5	0.0
20	PI2 BPSK	25	13	17.27	17.26	17.21	18.5	0.0
20	PI2 BPSK	25	26	17.38	17.29	17.47	18.5	0.0
20	PI2 BPSK	50	0	17.49	17.47	17.34	18.5	0.0
20	QPSK	1	1	17.30	17.50	17.23		
20	QPSK	1	26	17.15	17.45	17.17	18.5	0.0
20	QPSK	1	49	17.46	17.44	17.39		
20	QPSK	25	0	17.18	17.23	17.12	18.5	0.0
20	QPSK	25	13	17.24	17.40	17.31	18.5	0.0
20	QPSK	25	26	17.28	17.25	17.26	18.5	0.0
20	QPSK	50	0	17.17	17.50	17.09	18.5	0.0
20	16QAM	1	1	17.17	17.18	17.21	18.5	0.0
20	16QAM	1	1	17.20	17.31	17.21	18.5	0.0
20	16QAM	1	1	17.42	17.26	17.35	18.5	0.0

n38 Ant5_DSI 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.		
Channel				516000	519000	522000		
Frequency (MHz)				2500	2505	2510		
20	PI2 BPSK	1	1	16.40	16.41	16.27		
20	PI2 BPSK	1	26	16.29	16.39	16.34	17.5	0.0
20	PI2 BPSK	1	49	16.38	16.41	16.21		
20	PI2 BPSK	25	0	16.30	16.31	16.22	17.5	0.0
20	PI2 BPSK	25	13	16.31	16.29	16.32	17.5	0.0
20	PI2 BPSK	25	26	16.38	16.33	16.35	17.5	0.0
20	PI2 BPSK	50	0	16.38	16.39	16.33	17.5	0.0
20	QPSK	1	1	16.35	16.45	16.21		
20	QPSK	1	26	16.29	16.39	16.12	17.5	0.0
20	QPSK	1	49	16.42	16.43	16.44		
20	QPSK	25	0	16.28	16.29	16.11	17.5	0.0
20	QPSK	25	13	16.30	16.35	16.30	17.5	0.0
20	QPSK	25	26	16.21	16.27	16.28	17.5	0.0
20	QPSK	50	0	16.23	16.30	16.16	17.5	0.0
20	16QAM	1	1	16.22	16.25	16.28	17.5	0.0
20	16QAM	1	1	16.25	16.39	16.22	17.5	0.0
20	16QAM	1	1	16.36	16.38	16.33	17.5	0.0



n41 Ant5 DSI 5									
Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
100	18.87	18.91	18.78						
100	18.75	18.69	18.53	17.5	0.0				
100	18.16	18.13	18.01						
100	18.85	18.78	18.63	17.5	0.0				
100	18.73	18.78	18.07	17.5	0.0				
100	18.72	18.69	18.73	17.5	0.0				
100	18.61	18.58	18.41						
100	18.55	18.59	18.86						
100	18.50	18.64	18.65	17.5	0.0				
100	18.23	18.17	18.07						
100	18.75	18.71	18.75	17.5	0.0				
100	18.76	18.72	18.75	17.5	0.0				
100	18.41	18.35	18.35						
100	18.53	18.59	18.43	17.5	0.0				
100	18.93	18.96	18.86	17.5	0.0				
100	18.87	18.89	18.86	17.5	0.0				
100	18.78	18.78	18.82	17.5	0.0				
Channel	609000	518998	538986	Tune-up limit (dBm)	MPR (dB)				
Channel	2541	2592.99	2644.98						
90	18.39	18.81	18.61	17.5	0.0				
Channel	507204	518998	529988	Tune-up limit (dBm)	MPR (dB)				
Channel	2838.02	2992.99	2648.99						
80	18.82	18.87	18.70	17.5	0.0				
Channel	552203	518998	531985	Tune-up limit (dBm)	MPR (dB)				
Channel	2526	2992.99	2658.98						
60	18.91	18.75	18.70	17.5	0.0				
Channel	504204	518998	532988	Tune-up limit (dBm)	MPR (dB)				
Channel	2621.02	2992.99	2664.99						
50	18.81	18.77	18.76	17.5	0.0				
Channel	503202	518998	534900	Tune-up limit (dBm)	MPR (dB)				
Channel	2818.01	2992.99	2641						
40	18.73	18.91	18.90	17.5	0.0				
Channel	602200	518998	534996	Tune-up limit (dBm)	MPR (dB)				
Channel	2511	2992.99	2674.98						
30	18.70	18.89	18.82	17.5	0.0				
Channel	507204	518998	532988	Tune-up limit (dBm)	MPR (dB)				
Channel	2808.02	2992.99	2678.99						
20	18.88	18.93	18.68	17.5	0.0				



PC3 n77 Ant6 DSI 1&5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	17.74	17.74	17.77		
100	Pi2 BPSK	1	137	17.60	17.72	17.64	18.5	0.0
100	Pi2 BPSK	1	271	17.60	17.75	17.64		
100	Pi2 BPSK	135	0	17.70	17.63	17.68	18.5	0.0
100	Pi2 BPSK	135	69	17.60	17.69	17.68	18.5	0.0
100	Pi2 BPSK	135	138	17.65	17.65	17.48	18.5	0.0
100	Pi2 BPSK	270	0	17.57	17.59	17.58	18.5	0.0
100	QPSK	1	1	17.68	17.84	17.83		
100	QPSK	1	137	17.60	17.60	17.67	18.5	0.0
100	QPSK	1	271	17.55	17.65	17.65		
100	QPSK	135	0	17.70	17.72	17.74	18.5	0.0
100	QPSK	135	69	17.67	17.75	17.84	18.5	0.0
100	QPSK	135	138	17.72	17.68	17.64	18.5	0.0
100	QPSK	270	0	17.58	17.66	17.61	18.5	0.0
100	16QAM	1	1	17.66	17.79	17.83	18.5	0.0
100	16QAM	1	1	17.74	17.69	17.76	18.5	0.0
100	256QAM	1	1	17.55	17.61	17.59	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.74	17.63	17.74	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.73	17.72	17.85	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.69	17.58	17.62	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.66	17.68	17.61	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.81	17.75	17.52	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.77	17.70	17.67	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.79	17.70	17.72	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.71	17.58	17.81	18.5	0.0

PC3 Part27Q n77 Ant6 DSI 1&5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1		17.71	3500.01			
100	Pi2 BPSK	1	137		17.55		18.5	0.0	
100	Pi2 BPSK	1	271		17.77				
100	Pi2 BPSK	135	0		17.47		18.5	0.0	
100	Pi2 BPSK	135	69		17.55		18.5	0.0	
100	Pi2 BPSK	135	138		17.67		18.5	0.0	
100	Pi2 BPSK	270	0		17.64		18.5	0.0	
100	QPSK	1	1		17.79				
100	QPSK	1	137		17.56		18.5	0.0	
100	QPSK	1	271		17.69				
100	QPSK	135	0		17.64		18.5	0.0	
100	QPSK	135	69		17.75		18.5	0.0	
100	QPSK	135	138		17.60		18.5	0.0	
100	QPSK	270	0		17.71		18.5	0.0	
100	16QAM	1	1		17.76		18.5	0.0	
100	16QAM	1	1		17.61		18.5	0.0	
100	256QAM	1	1		17.57		18.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1		17.67	17.58	17.70	18.5	0.0
Channel									
Frequency (MHz)									
80	QPSK	1	1		17.78	17.64	17.74	18.5	0.0
Channel									
Frequency (MHz)									
70	QPSK	1	1		17.66	17.73	17.74	18.5	0.0
Channel									
Frequency (MHz)									
60	QPSK	1	1		17.66	17.74	17.75	18.5	0.0
Channel									
Frequency (MHz)									
50	QPSK	1	1		17.75	17.69	17.76	18.5	0.0
Channel									
Frequency (MHz)									
40	QPSK	1	1		17.76	17.71	17.73	18.5	0.0
Channel									
Frequency (MHz)									
30	QPSK	1	1		17.74	17.67	17.67	18.5	0.0
Channel									
Frequency (MHz)									
20	QPSK	1	26		17.76	17.67	17.65	18.5	0.0

PC3 n77 Ant6 DSI 3								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	18.29	18.27	18.37		
100	Pi2 BPSK	1	137	18.02	18.31	18.16	19.0	0.0
100	Pi2 BPSK	1	271	18.18	18.15	18.24		
100	Pi2 BPSK	135	0	18.14	18.18	18.12	19.0	0.0
100	Pi2 BPSK	135	69	18.15	18.08	18.08	19.0	0.0
100	Pi2 BPSK	135	138	18.12	18.12	17.89	19.0	0.0
100	Pi2 BPSK	270	0	18.16	18.10	18.19	19.0	0.0
100	QPSK	1	1	18.24	18.41	18.27		
100	QPSK	1	137	17.98	18.12	18.22	19.0	0.0
100	QPSK	1	271	18.06	18.04	18.17		
100	QPSK	135	0	18.19	18.28	18.24	19.0	0.0
100	QPSK	135	69	18.21	18.32	18.07	19.0	0.0
100	QPSK	135	138	18.31	18.30	18.11	19.0	0.0
100	QPSK	270	0	18.11	18.29	18.01	19.0	0.0
100	16QAM	1	1	18.22	18.19	18.28	19.0	0.0
100	16QAM	1	1	18.27	18.11	18.16	19.0	0.0
100	256QAM	1	1	18.13	18.12	18.16	19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.10	18.11	18.01	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.10	18.15	18.14	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.96	18.32	18.00	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.05	18.11	18.16	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.09	18.29	18.05	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.13	18.11	18.16	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.05	18.19	18.14	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.11	18.23	18.09	19.0	0.0



PC3 Part27Q n77 Ant6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	18.14	3500.01			
100	Pi2 BPSK	1	137	18.07			19.0	0.0
100	Pi2 BPSK	1	271	18.17				
100	Pi2 BPSK	135	0	17.85			19.0	0.0
100	Pi2 BPSK	135	69	18.08			19.0	0.0
100	Pi2 BPSK	135	138	18.19			19.0	0.0
100	Pi2 BPSK	270	0	18.19				
100	QPSK	1	1	18.39				
100	QPSK	1	137	17.99			19.0	0.0
100	QPSK	1	271	18.19				
100	QPSK	135	0	18.07			19.0	0.0
100	QPSK	135	69	18.16			19.0	0.0
100	QPSK	135	138	18.00			19.0	0.0
100	QPSK	270	0	18.10				
100	16QAM	1	1	18.16			19.0	0.0
100	64QAM	1	1	18.06			19.0	0.0
100	256QAM	1	1	17.28			19.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.29	18.13	18.11	19.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.04	17.99	18.14	19.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.00	18.00	18.13	19.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.09	17.87	18.22	19.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	18.10	17.99	18.02	19.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.24	17.87	18.06	19.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.02	17.96	18.03	19.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	26	18.15	17.83	18.11	19.0	0.0

SA PC2 n78 Ant6 DSI 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	17.65	3750			
100	Pi2 BPSK	1	137	17.67			18.5	0.0
100	Pi2 BPSK	1	271	17.71				
100	Pi2 BPSK	135	0	17.72			18.5	0.0
100	Pi2 BPSK	135	69	17.49			18.5	0.0
100	Pi2 BPSK	135	138	17.53			18.5	0.0
100	Pi2 BPSK	270	0	17.51				
100	QPSK	1	1	17.77				
100	QPSK	1	137	17.68			18.5	0.0
100	QPSK	1	271	17.73				
100	QPSK	135	0	17.63			18.5	0.0
100	QPSK	135	69	17.64			18.5	0.0
100	QPSK	135	138	17.63			18.5	0.0
100	QPSK	270	0	17.58				
100	16QAM	1	1	17.65			18.5	0.0
100	64QAM	1	1	17.57			18.5	0.0
100	256QAM	1	1	17.63			18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.51	17.64	17.48	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.61	17.49	17.48	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.46	17.57	17.53	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.54	17.51	17.47	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.59	17.65	17.45	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.47	17.61	17.63	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.42	17.59	17.48	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.41	17.69	17.43	18.5	0.0

SA PC2 Part27Q n78 Ant6 DSI 1

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	17.65	3500.01			
100	Pi2 BPSK	1	137	17.71			18.5	0.0
100	Pi2 BPSK	1	271	17.71				
100	Pi2 BPSK	135	0	17.71			18.5	0.0
100	Pi2 BPSK	135	69	17.73			18.5	0.0
100	Pi2 BPSK	135	138	17.73			18.5	0.0
100	Pi2 BPSK	270	0	17.70				
100	QPSK	1	1	17.79				
100	QPSK	1	137	17.68			18.5	0.0
100	QPSK	1	271	17.67				
100	QPSK	135	0	17.70			18.5	0.0
100	QPSK	135	69	17.79			18.5	0.0
100	QPSK	135	138	17.71			18.5	0.0
100	QPSK	270	0	17.73				
100	16QAM	1	1	17.72			18.5	0.0
100	64QAM	1	1	17.72			18.5	0.0
100	256QAM	1	1	17.63			18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.72	17.58	17.54	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.58	17.59	17.57	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.71	17.62	17.74	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.77	17.78	17.57	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.70	17.62	17.55	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.62	17.76	17.55	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.73	17.77	17.72	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.67	17.61	17.55	18.5	0.0



NSA PC3 n78 Ant6 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.15					
100	PI2 BPSK	1	137	15.17		18.0	0.0		
100	PI2 BPSK	1	271	15.21					
100	PI2 BPSK	135	0	15.22		18.0	0.0		
100	PI2 BPSK	135	69	15.26		18.0	0.0		
100	PI2 BPSK	135	138	15.03		18.0	0.0		
100	PI2 BPSK	270	0	15.01					
100	QPSK	1	1	15.27					
100	QPSK	1	137	15.16		18.0	0.0		
100	QPSK	1	271	15.23					
100	QPSK	135	0	15.13		18.0	0.0		
100	QPSK	135	69	15.14		18.0	0.0		
100	QPSK	135	138	15.13		18.0	0.0		
100	QPSK	270	0	15.06		18.0	0.0		
100	16QAM	1	1	15.15		18.0	0.0		
100	16QAM	1	1	15.07		18.0	0.0		
100	256QAM	1	1	15.13		18.0	0.0		
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.01	15.14	14.86	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.11	14.99	14.98	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	14.96	15.07	15.03	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.14	15.01	14.97	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.05	15.15	14.98	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	14.97	15.11	15.12	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	14.92	15.09	14.96	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	14.91	15.19	14.93	18.0	0.0	

NSA PC3 Part270 n78 Ant6 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.15					
100	PI2 BPSK	1	137	15.21		18.0	0.0		
100	PI2 BPSK	1	271	15.21					
100	PI2 BPSK	135	0	15.21		18.0	0.0		
100	PI2 BPSK	135	69	15.25		18.0	0.0		
100	PI2 BPSK	135	138	15.23		18.0	0.0		
100	PI2 BPSK	270	0	15.20					
100	QPSK	1	1	15.29					
100	QPSK	1	137	15.18		18.0	0.0		
100	QPSK	1	271	15.17					
100	QPSK	135	0	15.20		18.0	0.0		
100	QPSK	135	69	15.25		18.0	0.0		
100	QPSK	135	138	15.21		18.0	0.0		
100	QPSK	270	0	15.23		18.0	0.0		
100	16QAM	1	1	15.22		18.0	0.0		
100	16QAM	1	1	15.22		18.0	0.0		
100	256QAM	1	1	15.03		18.0	0.0		
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.22	15.08	15.04	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.08	15.09	15.07	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.21	15.12	15.24	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.27	15.28	15.07	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.20	15.12	15.05	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.12	15.28	15.08	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.23	15.27	15.22	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.17	15.11	15.05	18.0	0.0	

SA PC2 n78 Ant6 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1			19.04				
100	PI2 BPSK	1	137			19.14	20.0	0.0		
100	PI2 BPSK	1	271			18.07				
100	PI2 BPSK	135	0			19.23	20.0	0.0		
100	PI2 BPSK	135	69			19.02	20.0	0.0		
100	PI2 BPSK	135	138			19.23	20.0	0.0		
100	PI2 BPSK	270	0			19.13	20.0	0.0		
100	QPSK	1	1			19.28				
100	QPSK	1	137			19.19	20.0	0.0		
100	QPSK	1	271			19.22				
100	QPSK	135	0			19.14	20.0	0.0		
100	QPSK	135	69			19.22	20.0	0.0		
100	QPSK	135	138			19.13	20.0	0.0		
100	QPSK	270	0			18.89	20.0	0.0		
100	16QAM	1	1			19.12	20.0	0.0		
100	16QAM	1	1			19.98	20.0	0.0		
100	256QAM	1	1			19.21	20.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1			18.83	19.92	20.0	0.0	
Channel										
Frequency (MHz)										
80	QPSK	1	1			18.90	19.11	18.04	20.0	0.0
Channel										
Frequency (MHz)										
70	QPSK	1	1			19.06	19.13	19.09	20.0	0.0
Channel										
Frequency (MHz)										
60	QPSK	1	1			19.05	19.13	18.96	20.0	0.0
Channel										
Frequency (MHz)										
50	QPSK	1	1			19.25	19.13	19.07	20.0	0.0
Channel										
Frequency (MHz)										
40	QPSK	1	1			18.98	19.07	18.98	20.0	0.0
Channel										
Frequency (MHz)										
30	QPSK	1	1			19.19	19.07	19.02	20.0	0.0
Channel										
Frequency (MHz)										
20	QPSK	1	1			19.05	19.11	18.91	20.0	0.0



SA PC2 Part27Q n78 Ant6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.96	3500.01			
100	PI2 BPSK	1	137	19.20			20.0	0.0
100	PI2 BPSK	1	271	19.17				
100	PI2 BPSK	135	0	19.29			20.0	0.0
100	PI2 BPSK	135	69	19.24			20.0	0.0
100	PI2 BPSK	135	138	19.25			20.0	0.0
100	PI2 BPSK	270	0	19.29				
100	QPSK	1	1	19.37			20.0	0.0
100	QPSK	1	137	19.34				
100	QPSK	1	271	19.27				
100	QPSK	135	0	19.20			20.0	0.0
100	QPSK	135	69	19.27			20.0	0.0
100	QPSK	135	138	19.18			20.0	0.0
100	QPSK	270	0	19.06				
100	16QAM	1	1	19.17			20.0	0.0
100	16QAM	1	1	19.12			20.0	0.0
100	256QAM	1	1	19.85			20.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.16	3500.01	3505.02	20.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.10	3500.01	3510.02	20.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.24	3500.01	3515.01	20.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.24	3500.01	3510.02	20.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.10	3500.01	3505.02	20.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.20	3500.01	3500.02	20.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.05	3500.01	3505.02	20.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.24	3500.01	3515.01	20.0	0.0

NSA PC3 n78 Ant6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.72	3750			
100	PI2 BPSK	1	137	17.68			18.5	0.0
100	PI2 BPSK	1	271	17.60				
100	PI2 BPSK	135	0	17.70			18.5	0.0
100	PI2 BPSK	135	69	17.51			19.5	0.0
100	PI2 BPSK	135	138	17.62			18.5	0.0
100	PI2 BPSK	270	0	17.52				
100	QPSK	1	1	17.80			18.5	0.0
100	QPSK	1	137	17.76				
100	QPSK	1	271	17.69				
100	QPSK	135	0	17.54			18.5	0.0
100	QPSK	135	69	17.62			18.5	0.0
100	QPSK	135	138	17.55			18.5	0.0
100	QPSK	270	0	17.63				
100	16QAM	1	1	17.64			18.5	0.0
100	16QAM	1	1	17.50			18.5	0.0
100	256QAM	1	1	17.87			19.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.21	3750	3755.01	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.49	3750	3755.01	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.55	3750	3765	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.55	3767	3767	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.45	3750	3750.02	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.50	3750	3750	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.61	3765	3765	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.43	3771	3767	18.5	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	17.73	3500.01			
100	PI2 BPSK	1	137	17.62			18.5	0.0
100	PI2 BPSK	1	271	17.71				
100	PI2 BPSK	135	0	17.76			18.5	0.0
100	PI2 BPSK	135	69	17.62			18.5	0.0
100	PI2 BPSK	135	138	17.84			18.5	0.0
100	PI2 BPSK	270	0	17.66				
100	QPSK	1	1	17.85			18.5	0.0
100	QPSK	1	137	17.85				
100	QPSK	1	271	17.62				
100	QPSK	135	0	17.67			18.5	0.0
100	QPSK	135	69	17.78			18.5	0.0
100	QPSK	135	138	17.77			18.5	0.0
100	QPSK	270	0	17.62				
100	16QAM	1	1	17.70			18.5	0.0
100	16QAM	1	1	17.63			18.5	0.0
100	256QAM	1	1	17.89			19.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	17.68	3500.01	3505.02	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	17.63	3500.01	3510.01	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	17.70	3500.01	3515.01	18.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	17.64	3500.01	3505.02	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	17.69	3500.01	3500.02	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	17.69	3500.01	3500.02	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	17.78	3500.01	3505.02	18.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	17.76	3500.01	3510.01	18.5	0.0



SA PC2 n78 Ant6 DSI 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.71			
100	PI2 BPSK	1	137		23.61		24.5	0.0
100	PI2 BPSK	1	271		23.71			
100	PI2 BPSK	135	0		23.80		24.5	0.0
100	PI2 BPSK	135	69		23.43		24.5	0.0
100	PI2 BPSK	135	138		23.44		24.5	0.0
100	PI2 BPSK	270	0		23.42		24.5	0.0
100	QPSK	1	1		23.76		24.5	0.0
100	QPSK	1	137		23.61			
100	QPSK	1	271		23.77			
100	QPSK	135	0		23.64		24.5	0.0
100	QPSK	135	69		23.69		24.5	0.0
100	QPSK	135	138		23.53		24.5	0.0
100	QPSK	270	0		23.61		24.5	0.0
100	16QAM	1	1		23.63		24.5	0.0
100	16QAM	1	1		23.52		24.5	0.0
100	256QAM	1	1		23.24		23.0	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	648968	650000	650334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3743.02	3750	3755.01	(dBm)	(dB)
80	QPSK	1	1	23.55	23.53	23.41	24.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3740.01	3750	3760.02	(dBm)	(dB)
60	QPSK	1	1	23.40	23.86	23.41	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649334	650000	650334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3735	3750	3765	(dBm)	(dB)
40	QPSK	1	1	23.47	23.76	23.51	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648968	650000	651334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	649334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3720	3750	3780	(dBm)	(dB)
20	QPSK	1	1	23.48	23.63	23.56	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3725.01	3750	3770.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.45	23.72	23.55	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	3710.01	3750	3790.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.62	23.59	23.58	24.5	0.0

SA PC2 Part27q n78 Ant6 DSI 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.71			
100	PI2 BPSK	1	137		23.76		24.5	0.0
100	PI2 BPSK	1	271		23.71			
100	PI2 BPSK	135	0		23.61		24.5	0.0
100	PI2 BPSK	135	69		23.38		24.5	0.0
100	PI2 BPSK	135	138		23.50		24.5	0.0
100	PI2 BPSK	270	0		23.53		24.5	0.0
100	QPSK	1	1		23.79		24.5	0.0
100	QPSK	1	137		23.57			
100	QPSK	1	271		23.68			
100	QPSK	135	0		23.59		24.5	0.0
100	QPSK	135	69		23.66		24.5	0.0
100	QPSK	135	138		23.80		24.5	0.0
100	QPSK	270	0		23.57		24.5	0.0
100	16QAM	1	1		23.76		24.5	0.0
100	16QAM	1	1		23.52		24.5	0.0
100	256QAM	1	1		23.33		23.0	1.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3485	3500.01	3505.02	(dBm)	(dB)
80	QPSK	1	1	23.49	23.68	23.54	24.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	633668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3480.02	3500.01	3510	(dBm)	(dB)
60	QPSK	1	1	23.44	23.63	23.56	24.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	633000	633334	633668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3485.01	3500.01	3515.01	(dBm)	(dB)
40	QPSK	1	1	23.44	23.53	23.44	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	631668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3470.01	3500.01	3530.01	(dBm)	(dB)
20	QPSK	1	1	23.50	23.63	23.48	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3475.02	3500.01	3505.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.59	23.62	23.36	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631334	633334	633334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	631334	633334	633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3465	3500.01	3535.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.59	23.70	23.56	24.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	631668	633334	633000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3500.01	3540	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.41	23.58	23.37	24.5	0.0

NSA PC3 n78 Ant6 DSI 5								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.72			
100	PI2 BPSK	1	137		23.67		20.5	0.0
100	PI2 BPSK	1	271		23.71			
100	PI2 BPSK	135	0		23.74		20.5	0.0
100	PI2 BPSK	135	69		23.48		20.5	0.0
100	PI2 BPSK	135	138		23.41		20.5	0.0
100	PI2 BPSK	270	0		23.37		20.5	0.0
100	QPSK	1	1		23.83		20.5	0.0
100	QPSK	1	137		23.69			
100	QPSK	1	271		23.64			
100	QPSK	135	0		23.49		20.5	0.0
100	QPSK	135	69		23.76		20.5	0.0
100	QPSK	135	138		23.67		20.5	0.0
100	QPSK	270	0		23.62		20.5	0.0
100	16QAM	1	1		23.71		20.5	0.0
100	16QAM	1	1		23.64		20.5	0.0
100	256QAM	1	1		23.55		20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	649668	650000	650334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3742.02	3750	3755.01	(dBm)	(dB)
80	QPSK	1	1	23.57	23.73	23.41	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	3740.01	3750	3760.02	(dBm)	(dB)
60	QPSK	1	1	23.40	23.86	23.41	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	649334	650000	651334	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3735.02	3750	3765.03	(dBm)	(dB)
40	QPSK	1	1	23.47	23.61	23.44	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648968	650000	651668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	649334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3720	3750	3780	(dBm)	(dB)
20	QPSK	1	1	23.47	23.56	23.51	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3725.01	3750	3770.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	23.47	23.50	23.29	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3710.01	3750	3790.02	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	23.39	23.43	23.51	20.5	0.0



NSA PC3 Part27Q n78 Ant6 DSI 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F (Freq)	Power High Ch. F (Freq)	Power High Ch. F (Freq)	Tune-up limit (dBm)	MPR (dB)
Channel				63000	63334	63668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
100	PI2 BPSK	1	1	19.69				
100	PI2 BPSK	1	137	19.65			20.5	0.0
100	PI2 BPSK	1	271	19.66				
100	PI2 BPSK	135	0	19.77			20.5	0.0
100	PI2 BPSK	135	69	19.37			20.5	0.0
100	PI2 BPSK	135	138	19.40			20.5	0.0
100	PI2 BPSK	270	0	19.31				
100	QPSK	1	1	19.79				
100	QPSK	1	137	19.40			20.5	0.0
100	QPSK	1	271	19.58				
100	QPSK	135	0	19.42			20.5	0.0
100	QPSK	135	69	19.75			20.5	0.0
100	QPSK	135	138	19.81			20.5	0.0
100	QPSK	270	0	19.70				
100	16QAM	1	1	19.63			20.5	0.0
100	16QAM	1	1	19.66			20.5	0.0
100	16QAM	1	1	19.59			20.5	0.0
Channel				63000	63334	63668	Tune-up limit	MPR
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)
99	QPSK	1	1	19.40	19.61	19.54	20.5	0.0
Channel				63268	63334	63400	Tune-up limit	MPR
Frequency (MHz)				3480.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	19.47	19.64	19.55	20.5	0.0
Channel				63234	63334	63434	Tune-up limit	MPR
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)
70	QPSK	1	1	19.32	19.61	19.51	20.5	0.0
Channel				63200	63334	63468	Tune-up limit	MPR
Frequency (MHz)				3480	3500.01	3505.02	(dBm)	(dB)
60	QPSK	1	1	19.38	19.61	19.42	20.5	0.0
Channel				63168	63334	63500	Tune-up limit	MPR
Frequency (MHz)				3475.02	3500.01	3505	(dBm)	(dB)
50	QPSK	1	1	19.40	19.58	19.49	20.5	0.0
Channel				63134	63334	63534	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3500.01	(dBm)	(dB)
40	QPSK	1	1	19.34	19.58	19.48	20.5	0.0
Channel				63100	63334	63568	Tune-up limit	MPR
Frequency (MHz)				3465	3500.01	3505.02	(dBm)	(dB)
30	QPSK	1	1	19.51	19.74	19.48	20.5	0.0
Channel				63068	63334	63600	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3500	(dBm)	(dB)
20	QPSK	1	1	19.40	19.60	19.60	20.5	0.0



PC3 n77 Ant8 DSI 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 656000	Power Middle Ch. / Freq. 660000	Power High Ch. / Freq. 665000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.69	14.70	14.54	
100	PI2 BPSK	1	137	14.42	14.50	14.60	18.0
100	PI2 BPSK	1	271	14.56	14.77	14.62	
100	PI2 BPSK	135	0	14.89	14.70	14.45	18.0
100	PI2 BPSK	135	69	14.43	14.49	14.58	18.0
100	PI2 BPSK	135	138	14.35	14.38	14.53	18.0
100	PI2 BPSK	270	0	14.27	14.39	14.27	18.0
100	QPSK	1	1	14.76	14.76	14.76	18.0
100	QPSK	1	137	14.64	14.66	14.74	18.0
100	QPSK	1	271	14.71	14.80	14.85	18.0
100	QPSK	135	0	14.53	14.73	14.42	18.0
100	QPSK	135	69	14.89	14.77	14.70	18.0
100	QPSK	135	138	14.62	14.75	14.83	18.0
100	QPSK	270	0	14.31	14.53	14.39	18.0
100	16QAM	1	1	14.50	14.74	14.56	18.0
100	16QAM	1	1	14.80	14.70	14.45	18.0
100	256QAM	1	1	13.35	13.22	13.44	18.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.44	14.44	14.66	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.82	14.80	14.50	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.71	14.71	14.47	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.55	14.74	14.59	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.56	14.66	14.59	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.55	14.70	14.58	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.56	14.68	14.56	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.56	14.66	14.59	18.0

PC3 Part27Q n77 Ant8 DSI 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 633000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq. 633668	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	14.70	14.70	14.70	
100	PI2 BPSK	1	137	14.78	14.78	14.78	18.0
100	PI2 BPSK	1	271	14.81	14.81	14.81	
100	PI2 BPSK	135	0	14.68	14.68	14.68	18.0
100	PI2 BPSK	135	69	14.90	14.90	14.90	18.0
100	PI2 BPSK	135	138	14.62	14.62	14.62	18.0
100	PI2 BPSK	270	0	14.73	14.73	14.73	18.0
100	QPSK	1	1	15.03	15.03	15.03	18.0
100	QPSK	1	137	14.97	14.97	14.97	18.0
100	QPSK	1	271	14.50	14.50	14.50	18.0
100	QPSK	135	0	14.76	14.76	14.76	18.0
100	QPSK	135	69	14.96	14.96	14.96	18.0
100	QPSK	135	138	14.58	14.58	14.58	18.0
100	QPSK	270	0	14.84	14.84	14.84	18.0
100	16QAM	1	1	14.82	14.82	14.82	18.0
100	16QAM	1	1	14.65	14.65	14.65	18.0
100	256QAM	1	1	12.84	12.84	12.84	18.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	14.80	14.68	14.89	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	14.89	14.87	14.85	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	14.91	14.71	14.76	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	14.93	14.91	14.88	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	14.17	14.18	14.72	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	14.85	14.80	14.72	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	14.93	14.85	14.91	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	14.88	14.81	14.75	18.0

PC3 n77 Ant8 DSI 4							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 656000	Power Middle Ch. / Freq. 656000	Power High Ch. / Freq. 656000	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	16.63	16.70	16.65	
100	PI2 BPSK	1	137	16.53	16.55	16.43	18.0
100	PI2 BPSK	1	271	16.65	16.73	16.73	
100	PI2 BPSK	135	0	16.55	16.75	16.58	18.0
100	PI2 BPSK	135	69	16.63	16.57	16.44	18.0
100	PI2 BPSK	135	138	16.41	16.56	16.48	18.0
100	PI2 BPSK	270	0	16.23	16.49	16.21	18.0
100	QPSK	1	1	16.56	16.64	16.64	18.0
100	QPSK	1	137	16.79	16.65	16.79	18.0
100	QPSK	1	271	16.54	16.74	16.50	18.0
100	QPSK	135	0	16.65	16.71	16.48	18.0
100	QPSK	135	69	16.76	16.80	16.74	18.0
100	QPSK	135	138	16.77	16.71	16.66	18.0
100	QPSK	270	0	16.47	16.60	16.43	18.0
100	16QAM	1	1	16.58	16.63	16.78	18.0
100	16QAM	1	1	16.63	16.60	16.55	18.0
100	256QAM	1	1	16.12	16.10	16.08	17.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	16.79	16.88	16.72	18.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	16.66	16.53	16.63	18.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	16.85	16.49	16.65	18.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	16.42	16.64	16.37	18.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	16.49	16.70	16.39	18.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	16.42	16.58	16.49	18.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	16.48	16.62	16.40	18.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	16.55	16.69	16.41	18.0



PC3 Part27Q n77 Ant8 DS14

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

PC3 n77 Ant8 DS15

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).

PC3 Part27Q n77 Ant8 DS15

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel and Frequency (MHz).



SA PC2 n78 Ant8 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	15.93	3760				
100	Pi2 BPSK	1	137	15.99			17.0	0.0	
100	Pi2 BPSK	1	271	16.00					
100	Pi2 BPSK	135	0	15.99			17.0	0.0	
100	Pi2 BPSK	135	69	16.04			17.0	0.0	
100	Pi2 BPSK	135	138	16.14			17.0	0.0	
100	Pi2 BPSK	270	0	16.12			17.0	0.0	
100	QPSK	1	1	16.22					
100	QPSK	1	137	16.01			17.0	0.0	
100	QPSK	1	271	16.19					
100	QPSK	135	0	16.16			17.0	0.0	
100	QPSK	135	69	16.21			17.0	0.0	
100	QPSK	135	138	16.16			17.0	0.0	
100	QPSK	270	0	16.15			17.0	0.0	
100	16QAM	1	1	16.15			17.0	0.0	
100	64QAM	1	1	16.12			17.0	0.0	
100	256QAM	1	1	16.13			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.99	3760	3768.01	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.67	3760	3768.02	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.88	3760	3765	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.56	3760	3765	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.74	3760	3768.02	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.52	3760	3760	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.58	3760	3760	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.66	3760	3760	17.0	0.0	

SA PC2 Part27Q n78 Ant8 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	15.93	3600.01				
100	Pi2 BPSK	1	137	15.93			17.0	0.0	
100	Pi2 BPSK	1	271	15.93					
100	Pi2 BPSK	135	0	15.91			17.0	0.0	
100	Pi2 BPSK	135	69	15.96			17.0	0.0	
100	Pi2 BPSK	135	138	15.83			17.0	0.0	
100	Pi2 BPSK	270	0	15.92			17.0	0.0	
100	QPSK	1	1	16.05					
100	QPSK	1	137	15.84			17.0	0.0	
100	QPSK	1	271	15.64					
100	QPSK	135	0	15.84			17.0	0.0	
100	QPSK	135	69	16.00			17.0	0.0	
100	QPSK	135	138	15.84			17.0	0.0	
100	QPSK	270	0	15.95			17.0	0.0	
100	16QAM	1	1	15.89			17.0	0.0	
100	64QAM	1	1	15.87			17.0	0.0	
100	256QAM	1	1	15.87			17.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	15.86	3600.01	3608.02	17.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.51	3600.01	3610.01	17.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	15.81	3600.01	3615.01	17.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	15.65	3600.01	3615.02	17.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.79	3600.01	3620.02	17.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	15.37	3600.01	3630.01	17.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	15.67	3600.01	3635.02	17.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.65	3600.01	3635.02	17.0	0.0	

NSA PC3 n78 Ant8 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pi2 BPSK	1	1	12.53	3760				
100	Pi2 BPSK	1	137	12.69			14.0	0.0	
100	Pi2 BPSK	1	271	12.70					
100	Pi2 BPSK	135	0	12.69			14.0	0.0	
100	Pi2 BPSK	135	69	12.74			14.0	0.0	
100	Pi2 BPSK	135	138	12.84			14.0	0.0	
100	Pi2 BPSK	270	0	12.82			14.0	0.0	
100	QPSK	1	1	12.92					
100	QPSK	1	137	12.90			14.0	0.0	
100	QPSK	1	271	12.85					
100	QPSK	135	0	12.86			14.0	0.0	
100	QPSK	135	69	12.87			14.0	0.0	
100	QPSK	135	138	12.84			14.0	0.0	
100	QPSK	270	0	12.85			14.0	0.0	
100	16QAM	1	1	12.85			14.0	0.0	
100	64QAM	1	1	12.82			14.0	0.0	
100	256QAM	1	1	12.85			14.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	12.26	3760	3768.01	14.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	12.37	3760	3768.02	14.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	12.38	3760	3765	14.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	12.26	3760	3765	14.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	12.44	3760	3770.01	14.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	12.28	3760	3760	14.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	12.28	3760	3760	14.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	12.36	3760	3760	14.0	0.0	



NSA PC3 Part27Q n78 Ant8 DSI 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	13.10	3500.01					
100	Pi2 BPSK	1	137	13.10	13.10		14.0	0.0		
100	Pi2 BPSK	1	271	13.10						
100	Pi2 BPSK	135	0	13.08			14.0	0.0		
100	Pi2 BPSK	135	69	13.13			14.0	0.0		
100	Pi2 BPSK	135	138	13.00			14.0	0.0		
100	Pi2 BPSK	270	0	13.09						
100	QPSK	1	1	13.22						
100	QPSK	1	137	13.11			14.0	0.0		
100	QPSK	1	271	12.81						
100	QPSK	135	0	13.01			14.0	0.0		
100	QPSK	135	69	13.17			14.0	0.0		
100	QPSK	135	138	13.01			14.0	0.0		
100	QPSK	270	0	13.12						
100	16QAM	1	1	13.08			14.0	0.0		
100	16QAM	1	1	13.04			14.0	0.0		
100	256QAM	1	1	13.14			14.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	3500.01	3505.02				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495.02	3500.01	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
60	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
30	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
20	QPSK	1	1	12.82	13.13	12.87	14.0	0.0		

SA PC2 n78 Ant8 DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	21.89	3750					
100	Pi2 BPSK	1	137	22.02			23.0	0.0		
100	Pi2 BPSK	1	271	21.90						
100	Pi2 BPSK	135	0	22.05			23.0	0.0		
100	Pi2 BPSK	135	69	22.00			23.0	0.0		
100	Pi2 BPSK	135	138	22.14			23.0	0.0		
100	Pi2 BPSK	270	0	22.18						
100	QPSK	1	1	22.25						
100	QPSK	1	137	22.23			23.0	0.0		
100	QPSK	1	271	22.12						
100	QPSK	135	0	22.06			23.0	0.0		
100	QPSK	135	69	22.25			23.0	0.0		
100	QPSK	135	138	22.23			23.0	0.0		
100	QPSK	270	0	22.05						
100	16QAM	1	1	22.08			23.0	0.0		
100	16QAM	1	1	21.58			22.5	0.5		
100	256QAM	1	1	19.75			20.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3745.02	3750	3755.01				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3745.01	3750	3760.02				
Channel										
Frequency (MHz)										
70	QPSK	1	1	3735	3750	3765				
Channel										
Frequency (MHz)										
60	QPSK	1	1	3735	3750	3765				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3735.02	3750	3765.01				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3735.02	3750	3765.01				
Channel										
Frequency (MHz)										
30	QPSK	1	1	3735.02	3750	3765.01				
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.56	21.91	21.71	23.0	0.0		

SA PC2 Part27Q n78 Ant8 DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	21.53	3500.01					
100	Pi2 BPSK	1	137	21.26			23.0	0.0		
100	Pi2 BPSK	1	271	21.43						
100	Pi2 BPSK	135	0	21.39			23.0	0.0		
100	Pi2 BPSK	135	69	21.40			23.0	0.0		
100	Pi2 BPSK	135	138	21.25			23.0	0.0		
100	Pi2 BPSK	270	0	21.39						
100	QPSK	1	1	21.46						
100	QPSK	1	137	21.52			23.0	0.0		
100	QPSK	1	271	20.95						
100	QPSK	135	0	21.18			23.0	0.0		
100	QPSK	135	69	21.42			23.0	0.0		
100	QPSK	135	138	21.24			23.0	0.0		
100	QPSK	270	0	21.37						
100	16QAM	1	1	21.23			23.0	0.0		
100	16QAM	1	1	20.99			22.5	0.5		
100	256QAM	1	1	19.02			20.5	2.5		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	3500.01	3505.02				
Channel										
Frequency (MHz)										
80	QPSK	1	1	3495.02	3500.01	3510				
Channel										
Frequency (MHz)										
70	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
60	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
50	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
40	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
30	QPSK	1	1	3485.01	3500.01	3515.01				
Channel										
Frequency (MHz)										
20	QPSK	1	1	21.28	21.35	21.11	23.0	0.0		



NSA PC3 n78 Ant8 DSI 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.54	18.54				
100	PI2 BPSK	1	137	18.68	18.68		20.0	0.0	
100	PI2 BPSK	1	271	18.68	18.68				
100	PI2 BPSK	135	0	18.69	18.69		20.0	0.0	
100	PI2 BPSK	135	69	18.75	18.75		20.0	0.0	
100	PI2 BPSK	135	138	18.83	18.83		20.0	0.0	
100	PI2 BPSK	270	0	18.83	18.83				
100	QPSK	1	1	18.91	18.91				
100	QPSK	1	137	18.98	18.98		20.0	0.0	
100	QPSK	1	271	18.98	18.98				
100	QPSK	135	0	18.85	18.85		20.0	0.0	
100	QPSK	135	69	18.89	18.89		20.0	0.0	
100	QPSK	135	138	18.87	18.87		20.0	0.0	
100	QPSK	270	0	18.86	18.86				
100	16QAM	1	1	18.87	18.87		20.0	0.0	
100	16QAM	1	1	18.81	18.81		20.0	0.0	
100	256QAM	1	1	18.81	18.81		20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.23	18.50	18.39	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.45	18.89	18.57	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.45	18.71	18.56	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.47	18.71	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.45	18.71	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.47	18.70	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.47	18.69	18.59	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.47	18.69	18.58	20.0	0.0	

NSA PC3 Part27 n78 Ant8 DSI 5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.19	19.19				
100	PI2 BPSK	1	137	19.19	19.19		20.0	0.0	
100	PI2 BPSK	1	271	19.19	19.19				
100	PI2 BPSK	135	0	19.15	19.15		20.0	0.0	
100	PI2 BPSK	135	69	19.25	19.25		20.0	0.0	
100	PI2 BPSK	135	138	19.08	19.08		20.0	0.0	
100	PI2 BPSK	270	0	19.16	19.16				
100	QPSK	1	1	19.31	19.31				
100	QPSK	1	137	19.16	19.16		20.0	0.0	
100	QPSK	1	271	18.98	18.98				
100	QPSK	135	0	19.10	19.10		20.0	0.0	
100	QPSK	135	69	19.27	19.27		20.0	0.0	
100	QPSK	135	138	19.09	19.09		20.0	0.0	
100	QPSK	270	0	19.20	19.20				
100	16QAM	1	1	19.15	19.15		20.0	0.0	
100	16QAM	1	1	19.12	19.12		20.0	0.0	
100	256QAM	1	1	19.39	19.39		20.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.12	19.19	19.08	20.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.09	19.17	19.06	20.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.12	19.16	19.93	20.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.11	19.18	19.10	20.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.12	19.20	19.98	20.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.11	19.17	19.09	20.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.13	19.16	19.09	20.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.11	19.17	19.00	20.0	0.0	

SA PC2 n78 Ant8 DSI 4 NSA PC3 n78 Ant8 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	18.88	18.88				
100	PI2 BPSK	1	137	18.85	18.85		18.0	0.0	
100	PI2 BPSK	1	271	18.87	18.87				
100	PI2 BPSK	135	0	18.80	18.80		18.0	0.0	
100	PI2 BPSK	135	69	18.86	18.86		18.0	0.0	
100	PI2 BPSK	135	138	18.92	18.92		18.0	0.0	
100	PI2 BPSK	270	0	18.88	18.88				
100	QPSK	1	1	18.96	18.96				
100	QPSK	1	137	18.88	18.88		18.0	0.0	
100	QPSK	1	271	18.79	18.79				
100	QPSK	135	0	18.93	18.93		18.0	0.0	
100	QPSK	135	69	18.94	18.94		18.0	0.0	
100	QPSK	135	138	18.81	18.81		18.0	0.0	
100	QPSK	270	0	18.91	18.91				
100	16QAM	1	1	18.80	18.80		18.0	0.0	
100	16QAM	1	1	18.78	18.78		18.0	0.0	
100	256QAM	1	1	18.75	18.75		18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	18.85	18.82	18.87	18.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	18.85	18.69	18.68	18.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	18.85	18.70	18.76	18.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	18.87	18.81	18.69	18.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	18.89	18.84	18.89	18.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	18.89	18.83	18.87	18.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	18.69	18.61	18.70	18.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	18.78	18.65	18.80	18.0	0.0	



SA PC2 Part27Q n78 Ant6 DSI 4 NSA PC3 n78 Ant6 DSI4									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq.]	Power Middle Ch. [Freq.]	Power High Ch. [Freq.]	Tune-up limit (dBm)	MPR (dB)	
Channel				63000	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)	
100	PI2 BPSK	1	1	17.24					
100	PI2 BPSK	1	137	17.33			18.0	0.0	
100	PI2 BPSK	1	271	17.08					
100	PI2 BPSK	135	0	17.34			18.0	0.0	
100	PI2 BPSK	135	69	17.30			18.0	0.0	
100	PI2 BPSK	135	138	17.18			18.0	0.0	
100	PI2 BPSK	270	0	17.33					
100	QPSK	1	1	17.42					
100	QPSK	1	137	17.41			18.0	0.0	
100	QPSK	1	271	17.16					
100	QPSK	135	0	17.27			18.0	0.0	
100	QPSK	135	69	17.26			18.0	0.0	
100	QPSK	135	138	17.19			18.0	0.0	
100	QPSK	270	0	17.28					
100	16QAM	1	1	17.35			18.0	0.0	
100	16QAM	1	1	17.36			18.0	0.0	
100	16QAM	1	1	17.31			18.0	0.0	
Channel				63000	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3485	3500.01	3505.02	(dBm)	(dB)	
99	QPSK	1	1	17.21	17.19	17.28	18.0	0.0	
Channel				63000	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1	17.40	17.17	17.06	18.0	0.0	
Channel				63000	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3485.01	3500.01	3515.01	(dBm)	(dB)	
70	QPSK	1	1	17.21	17.18	17.16	18.0	0.0	
Channel				63000	63334	63668	Tune-up limit	MPR	
Frequency (MHz)				3480	3500.01	3505.02	(dBm)	(dB)	
60	QPSK	1	1	17.21	17.18	17.16	18.0	0.0	
Channel				63168	63334	63500	Tune-up limit	MPR	
Frequency (MHz)				3478.02	3500.01	3505	(dBm)	(dB)	
50	QPSK	1	1	17.21	17.18	17.16	18.0	0.0	
Channel				63134	63334	63334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3500.01	(dBm)	(dB)	
40	QPSK	1	1	17.21	17.18	17.16	18.0	0.0	
Channel				63100	63334	63566	Tune-up limit	MPR	
Frequency (MHz)				3465	3500.01	3515.02	(dBm)	(dB)	
30	QPSK	1	1	17.21	17.18	17.16	18.0	0.0	
Channel				63068	63334	63500	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3510	(dBm)	(dB)	
20	QPSK	1	1	17.22	17.36	17.15	18.0	0.0	



PC3 n77 Ant12 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.91	19.96	19.97			
100	PI2 BPSK	1	137	19.85	19.88	19.80	20.5	0.0	
100	PI2 BPSK	1	271	19.95	19.90	19.84			
100	PI2 BPSK	135	0	20.14	20.09	20.08	20.5	0.0	
100	PI2 BPSK	135	69	19.93	20.01	19.84	20.5	0.0	
100	PI2 BPSK	135	138	19.97	20.03	20.04	20.5	0.0	
100	PI2 BPSK	270	0	20.09	20.08	19.97	20.5	0.0	
100	QPSK	1	1	20.15	20.18	20.11	20.5	0.0	
100	QPSK	1	137	20.15	20.17	20.08	20.5	0.0	
100	QPSK	1	271	20.00	20.15	20.10			
100	QPSK	135	0	20.03	20.13	19.99	20.5	0.0	
100	QPSK	135	69	20.01	20.15	20.00	20.5	0.0	
100	QPSK	135	138	20.12	20.13	20.11	20.5	0.0	
100	QPSK	270	0	20.13	20.14	20.06	20.5	0.0	
100	16QAM	1	1	20.06	20.17	20.02	20.5	0.0	
100	16QAM	1	1	20.13	20.16	20.04	20.5	0.0	
100	256QAM	1	1	20.11	20.14	20.17	20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.97	19.95	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.87	19.86	19.77	20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.81	19.81	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.91	19.98	19.91	20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.94	19.97	19.90	20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.79	19.82	19.80	20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.84	19.84	19.84	20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.92	19.87	19.92	20.5	0.0	

PC3 Part27Q n77 Ant12 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		19.91				
100	PI2 BPSK	1	137		19.95		20.5	0.0	
100	PI2 BPSK	1	271		19.89				
100	PI2 BPSK	135	0		19.96		20.5	0.0	
100	PI2 BPSK	135	69		20.02		20.5	0.0	
100	PI2 BPSK	135	138		19.91		20.5	0.0	
100	PI2 BPSK	270	0		19.99				
100	QPSK	1	1		20.19		20.5	0.0	
100	QPSK	1	137		20.02		20.5	0.0	
100	QPSK	1	271		20.12				
100	QPSK	135	0		20.01		20.5	0.0	
100	QPSK	135	69		20.04		20.5	0.0	
100	QPSK	135	138		20.02		20.5	0.0	
100	QPSK	270	0		20.01		20.5	0.0	
100	16QAM	1	1		20.18		20.5	0.0	
100	16QAM	1	1		19.85		20.5	0.0	
100	256QAM	1	1		20.01		20.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1		19.97		20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1		19.77		20.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1		20.02		20.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1		19.88		20.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1		19.99		20.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1		20.10		20.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1		20.11		20.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1		19.97		20.5	0.0	

PC3 n77 Ant12 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.03				
100	PI2 BPSK	1	137		16.80		17.5	0.0	
100	PI2 BPSK	1	271		16.84				
100	PI2 BPSK	135	0		16.98		17.5	0.0	
100	PI2 BPSK	135	69		16.73		17.5	0.0	
100	PI2 BPSK	135	138		16.84		17.5	0.0	
100	PI2 BPSK	270	0		16.69		17.5	0.0	
100	QPSK	1	1		17.01		17.5	0.0	
100	QPSK	1	137		16.88		17.5	0.0	
100	QPSK	1	271		16.92		17.5	0.0	
100	QPSK	135	0		16.98		17.5	0.0	
100	QPSK	135	69		16.81		17.5	0.0	
100	QPSK	135	138		17.03		17.5	0.0	
100	QPSK	270	0		16.80		17.5	0.0	
100	16QAM	1	1		16.86		17.5	0.0	
100	16QAM	1	1		16.98		17.5	0.0	
100	256QAM	1	1		16.53		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1		16.80		17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1		16.79		17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1		16.71		17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1		16.74		17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1		16.83		17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1		16.82		17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1		16.84		17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1		16.80		17.5	0.0	



PC3 Part27Q n77 Ant12 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	17.07	3500.01					
100	Pi2 BPSK	1	137	17.06			17.5	0.0		
100	Pi2 BPSK	1	271	16.83						
100	Pi2 BPSK	135	0	16.96			17.5	0.0		
100	Pi2 BPSK	135	69	17.13			17.5	0.0		
100	Pi2 BPSK	135	138	17.08			17.5	0.0		
100	Pi2 BPSK	270	0	16.97						
100	QPSK	1	1	17.20			17.5	0.0		
100	QPSK	1	137	17.19						
100	QPSK	1	271	17.15						
100	QPSK	135	0	16.95			17.5	0.0		
100	QPSK	135	69	17.11			17.5	0.0		
100	QPSK	135	138	17.10			17.5	0.0		
100	QPSK	270	0	17.03						
100	16QAM	1	1	17.02			17.5	0.0		
100	64QAM	1	1	17.05			17.5	0.0		
100	256QAM	1	1	16.73			17.5	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	3500.01	3506.02				
Channel										
Frequency (MHz)										
80	QPSK	1	1	16.89	16.07	16.07	17.5	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	17.03	16.85	16.91	17.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	16.89	17.00	17.05	17.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	16.99	17.02	16.93	17.5	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	16.98	17.02	17.05	17.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	17.01	16.99	16.97	17.5	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	16.89	16.89	16.92	17.5	0.0		

PC3 n77 Ant12 DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	18.57	18.49	18.53				
100	Pi2 BPSK	1	137	18.34	18.30	18.41	19.0	0.0		
100	Pi2 BPSK	1	271	18.35	18.26	18.22				
100	Pi2 BPSK	135	0	18.49	18.49	18.49	19.0	0.0		
100	Pi2 BPSK	135	69	18.32	18.27	18.24	19.0	0.0		
100	Pi2 BPSK	135	138	18.22	18.25	18.20				
100	Pi2 BPSK	270	0	18.30	18.27	18.28	19.0	0.0		
100	QPSK	1	1	18.49	18.28	18.24				
100	QPSK	1	137	18.41	18.45	18.41	19.0	0.0		
100	QPSK	1	271	18.35	18.39	18.31				
100	QPSK	135	0	18.51	18.47	18.43	19.0	0.0		
100	QPSK	135	69	18.43	18.53	18.37	19.0	0.0		
100	QPSK	135	138	18.41	18.31	18.41				
100	QPSK	270	0	18.31	18.39	18.35	19.0	0.0		
100	16QAM	1	1	18.32	18.44	18.37	19.0	0.0		
100	64QAM	1	1	18.43	18.39	18.42	19.0	0.0		
100	256QAM	1	1	18.10	18.10	17.99	19.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3743.02	3840	3936.01				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.36	18.42	18.54	19.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.41	18.43	18.51	19.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.29	18.47	18.31	19.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.23	18.37	18.33	19.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.40	18.50	18.37	19.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.40	18.34	18.38	19.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.31	18.43	18.40	19.0	0.0		

PC3 Part27Q n77 Ant12 DSI 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	Pi2 BPSK	1	1	18.56	3500.01					
100	Pi2 BPSK	1	137	18.57			19.0	0.0		
100	Pi2 BPSK	1	271	18.44						
100	Pi2 BPSK	135	0	18.44			19.0	0.0		
100	Pi2 BPSK	135	69	18.54			19.0	0.0		
100	Pi2 BPSK	135	138	18.50			19.0	0.0		
100	Pi2 BPSK	270	0	18.56						
100	QPSK	1	1	18.63			19.0	0.0		
100	QPSK	1	137	18.62						
100	QPSK	1	271	18.59						
100	QPSK	135	0	18.49			19.0	0.0		
100	QPSK	135	69	18.54			19.0	0.0		
100	QPSK	135	138	18.49			19.0	0.0		
100	QPSK	270	0	18.54						
100	16QAM	1	1	18.55			19.0	0.0		
100	64QAM	1	1	18.48			19.0	0.0		
100	256QAM	1	1	18.20			19.0	0.0		
Channel										
Frequency (MHz)										
90	QPSK	1	1	3495	3500.01	3506.02				
Channel										
Frequency (MHz)										
80	QPSK	1	1	18.44	18.50	18.47	19.0	0.0		
Channel										
Frequency (MHz)										
70	QPSK	1	1	18.50	18.53	18.59	19.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	18.56	18.62	18.40	19.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	18.57	18.53	18.42	19.0	0.0		
Channel										
Frequency (MHz)										
40	QPSK	1	1	18.53	18.60	18.44	19.0	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	18.55	18.56	18.41	19.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	18.57	18.63	18.39	19.0	0.0		



SA PC2 n78 Ant12 DSI 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.22	20.27		
100	PI2 BPSK	1	137	20.23	20.27	20.5	0.0
100	PI2 BPSK	1	271	20.27			
100	PI2 BPSK	135	0	20.27		20.5	0.0
100	PI2 BPSK	135	69	20.25		20.5	0.0
100	PI2 BPSK	135	138	20.28		20.5	0.0
100	PI2 BPSK	270	0	20.20			
100	QPSK	1	1	20.37		20.5	0.0
100	QPSK	1	137	20.36			
100	QPSK	1	271	20.35			
100	QPSK	135	0	20.35		20.5	0.0
100	QPSK	135	69	20.34		20.5	0.0
100	QPSK	135	138	20.34		20.5	0.0
100	QPSK	270	0	20.35			
100	16QAM	1	1	20.29		20.5	0.0
100	16QAM	1	1	20.24		20.5	0.0
100	256QAM	1	1	20.34		20.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.30	20.34	20.34	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.25	20.26	20.28	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.19	20.26	20.33	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.29	20.21	20.32	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.30	20.25	20.24	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.16	20.24	20.35	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.15	20.30	20.26	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.35	20.25	20.22	0.0

SA PC2 Part27Q n78 Ant12 DSI 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 630000	Power Middle Ch. / Freq. 633334	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	20.23	20.19		
100	PI2 BPSK	1	137	20.19	20.17	20.5	0.0
100	PI2 BPSK	1	271	20.17			
100	PI2 BPSK	135	0	20.17		20.5	0.0
100	PI2 BPSK	135	69	20.27		20.5	0.0
100	PI2 BPSK	135	138	20.19		20.5	0.0
100	PI2 BPSK	270	0	20.21			
100	QPSK	1	1	20.35		20.5	0.0
100	QPSK	1	137	20.34			
100	QPSK	1	271	20.34			
100	QPSK	135	0	20.23		20.5	0.0
100	QPSK	135	69	20.24		20.5	0.0
100	QPSK	135	138	20.19		20.5	0.0
100	QPSK	270	0	20.27			
100	16QAM	1	1	20.32		20.5	0.0
100	16QAM	1	1	20.25		20.5	0.0
100	256QAM	1	1	20.26		20.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.15	20.14	20.22	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.26	20.16	20.20	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	20.15	20.33	20.24	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	20.30	20.33	20.20	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.25	20.21	20.33	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.21	20.21	20.25	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.31	20.34	20.31	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.30	20.34	20.27	0.0

NSA PC3 n78 Ant12 DSI 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 650000	Power Middle Ch. / Freq. 650000	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI2 BPSK	1	1	17.02			
100	PI2 BPSK	1	137	17.23		17.5	0.0
100	PI2 BPSK	1	271	17.27			
100	PI2 BPSK	135	0	17.27		17.5	0.0
100	PI2 BPSK	135	69	17.25		17.5	0.0
100	PI2 BPSK	135	138	17.28		17.5	0.0
100	PI2 BPSK	270	0	17.20			
100	QPSK	1	1	17.37		17.5	0.0
100	QPSK	1	137	17.29			
100	QPSK	1	271	17.36			
100	QPSK	135	0	17.35		17.5	0.0
100	QPSK	135	69	17.36		17.5	0.0
100	QPSK	135	138	17.24		17.5	0.0
100	QPSK	270	0	17.35			
100	16QAM	1	1	17.29		17.5	0.0
100	16QAM	1	1	17.28		17.5	0.0
100	256QAM	1	1	17.30		17.5	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	17.20	17.24	17.24	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	17.25	17.28	17.28	0.0
Channel							
Frequency (MHz)							
70	QPSK	1	1	17.19	17.28	17.33	0.0
Channel							
Frequency (MHz)							
60	QPSK	1	1	17.29	17.21	17.32	0.0
Channel							
Frequency (MHz)							
50	QPSK	1	1	17.50	17.25	17.24	0.0
Channel							
Frequency (MHz)							
40	QPSK	1	1	17.18	17.24	17.25	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	17.15	17.30	17.28	0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	17.35	17.25	17.22	0.0



NSA PC3 Part27Q n78 Ant12 DSI 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.23	3500.01				
100	PI2 BPSK	1	137	17.19	17.19		17.5	0.0	
100	PI2 BPSK	1	271	17.17	17.17				
100	PI2 BPSK	135	0	17.17	17.17		17.5	0.0	
100	PI2 BPSK	135	69	17.27	17.27		17.5	0.0	
100	PI2 BPSK	135	138	17.19	17.19		17.5	0.0	
100	PI2 BPSK	270	0	17.21	17.21				
100	QPSK	1	1	17.35	17.35		17.5	0.0	
100	QPSK	1	137	17.34	17.34				
100	QPSK	1	271	17.34	17.34				
100	QPSK	135	0	17.23	17.23		17.5	0.0	
100	QPSK	135	69	17.24	17.24		17.5	0.0	
100	QPSK	135	138	17.19	17.19		17.5	0.0	
100	QPSK	270	0	17.27	17.27				
100	16QAM	1	1	17.32	17.32		17.5	0.0	
100	16QAM	1	1	17.25	17.25		17.5	0.0	
100	256QAM	1	1	17.24	17.24		17.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	17.15	17.14	17.22	17.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	17.26	17.16	17.20	17.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	17.15	17.33	17.24	17.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	17.30	17.33	17.20	17.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	17.25	17.21	17.33	17.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	17.21	17.21	17.25	17.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	17.31	17.34	17.31	17.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	17.30	17.34	17.27	17.5	0.0	

SA PC2 n78 Ant12 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.09	3750				
100	PI2 BPSK	1	137	16.24	16.24		16.5	0.0	
100	PI2 BPSK	1	271	16.17	16.17				
100	PI2 BPSK	135	0	16.10	16.10		16.5	0.0	
100	PI2 BPSK	135	69	16.04	16.04		16.5	0.0	
100	PI2 BPSK	135	138	16.13	16.13		16.5	0.0	
100	PI2 BPSK	270	0	16.18	16.18				
100	QPSK	1	1	16.54	16.54		16.5	0.0	
100	QPSK	1	137	16.26	16.26				
100	QPSK	1	271	16.40	16.40				
100	QPSK	135	0	16.35	16.35		16.5	0.0	
100	QPSK	135	69	16.41	16.41		16.5	0.0	
100	QPSK	135	138	16.27	16.27		16.5	0.0	
100	QPSK	270	0	16.24	16.24				
100	16QAM	1	1	16.46	16.46		16.5	0.0	
100	16QAM	1	1	16.25	16.25		16.5	0.0	
100	256QAM	1	1	16.43	16.43		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.45	16.38	16.22	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.38	16.30	16.26	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.45	16.36	16.25	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.33	16.39	16.25	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	16.46	16.44	16.24	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.53	16.34	16.24	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.41	16.47	16.33	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	16.39	16.30	16.38	16.5	0.0	

SA PC2 Part27Q n78 Ant12 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	16.17	3500.01				
100	PI2 BPSK	1	137	16.17	16.17		16.5	0.0	
100	PI2 BPSK	1	271	16.29	16.29				
100	PI2 BPSK	135	0	16.20	16.20		16.5	0.0	
100	PI2 BPSK	135	69	16.27	16.27		16.5	0.0	
100	PI2 BPSK	135	138	16.16	16.16		16.5	0.0	
100	PI2 BPSK	270	0	16.32	16.32				
100	QPSK	1	1	16.50	16.50		16.5	0.0	
100	QPSK	1	137	16.29	16.29				
100	QPSK	1	271	16.48	16.48				
100	QPSK	135	0	16.24	16.24		16.5	0.0	
100	QPSK	135	69	16.27	16.27		16.5	0.0	
100	QPSK	135	138	16.26	16.26		16.5	0.0	
100	QPSK	270	0	16.41	16.41				
100	16QAM	1	1	16.18	16.18		16.5	0.0	
100	16QAM	1	1	16.43	16.43		16.5	0.0	
100	256QAM	1	1	16.30	16.30		16.5	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	16.44	16.34	16.09	16.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	16.07	16.05	16.04	16.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	16.16	16.13	16.12	16.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	16.03	16.02	16.07	16.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.59	16.10	16.15	16.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	16.17	16.04	16.20	16.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	16.03	15.95	16.05	16.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.98	16.06	16.03	16.5	0.0	



NSA PC3 n78 Ant12 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Middle Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	14.47	14.71			
100	Pi2 BPSK	1	137	14.83	14.72		15.0	0.0
100	Pi2 BPSK	1	271	14.77				
100	Pi2 BPSK	135	0	14.88	14.70		15.0	0.0
100	Pi2 BPSK	135	69	14.82	14.92		15.0	0.0
100	Pi2 BPSK	135	138	14.72	14.70		15.0	0.0
100	Pi2 BPSK	270	0	14.71	14.63		15.0	0.0
100	QPSK	1	1	14.96	14.90			
100	QPSK	1	137	14.79	14.97		15.0	0.0
100	QPSK	1	271	14.97	14.84			
100	QPSK	135	0	14.80	14.81		15.0	0.0
100	QPSK	135	69	14.83	14.82		15.0	0.0
100	QPSK	135	138	14.80	14.75		15.0	0.0
100	QPSK	270	0	14.83	14.71		15.0	0.0
100	16QAM	1	1	14.79	14.86		15.0	0.0
100	16QAM	1	1	14.86	14.86		15.0	0.0
100	256QAM	1	1	14.72	14.86		15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.83	14.85	14.84	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.89	14.77	14.81	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.74	14.79	14.73	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.70	14.92	14.87	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.78	14.85	14.72	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.72	14.77	14.84	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.74	14.93	14.85	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.69	14.92	14.82	15.0	0.0

NSA PC3 Part27Q n78 Ant12 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Middle Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	14.71	14.71			
100	Pi2 BPSK	1	137	14.72	14.72		15.0	0.0
100	Pi2 BPSK	1	271	14.76				
100	Pi2 BPSK	135	0	14.70	14.70		15.0	0.0
100	Pi2 BPSK	135	69	14.92	14.82		15.0	0.0
100	Pi2 BPSK	135	138	14.70	14.70		15.0	0.0
100	Pi2 BPSK	270	0	14.63	14.63		15.0	0.0
100	QPSK	1	1	14.90	14.90			
100	QPSK	1	137	14.97	14.97		15.0	0.0
100	QPSK	1	271	14.84	14.84			
100	QPSK	135	0	14.81	14.81		15.0	0.0
100	QPSK	135	69	14.82	14.82		15.0	0.0
100	QPSK	135	138	14.75	14.75		15.0	0.0
100	QPSK	270	0	14.71	14.71		15.0	0.0
100	16QAM	1	1	14.86	14.86		15.0	0.0
100	16QAM	1	1	14.86	14.86		15.0	0.0
100	256QAM	1	1	14.86	14.86		15.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	14.83	14.85	14.84	15.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	14.75	14.72	14.73	15.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	14.62	14.60	14.66	15.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	14.61	14.58	14.63	15.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	14.70	14.72	14.81	15.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	14.54	14.74	14.77	15.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	14.72	14.61	14.66	15.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	14.84	14.84	14.74	15.0	0.0

SA PC2 n78 Ant12 DSI4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. (dBm)	Power Middle Ch./Freq. (dBm)	Power High Ch./Freq. (dBm)	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	25.59	25.59			
100	Pi2 BPSK	1	137	25.61	25.61		26.0	0.0
100	Pi2 BPSK	1	271	25.54				
100	Pi2 BPSK	135	0	25.54	25.54		26.0	0.0
100	Pi2 BPSK	135	69	25.61	25.61		26.0	0.0
100	Pi2 BPSK	135	138	25.53	25.53		26.0	0.0
100	Pi2 BPSK	270	0	25.58	25.58		26.0	0.0
100	QPSK	1	1	25.77	25.77			
100	QPSK	1	137	25.62	25.62		26.0	0.0
100	QPSK	1	271	25.61				
100	QPSK	135	0	25.56	25.56		26.0	0.0
100	QPSK	135	69	25.70	25.70		26.0	0.0
100	QPSK	135	138	25.57	25.57		26.0	0.0
100	QPSK	270	0	25.65	25.65		26.0	0.0
100	16QAM	1	1	25.51	25.51		26.0	0.0
100	16QAM	1	1	25.61	25.61		25.5	0.5
100	256QAM	1	1	23.27	23.27		23.5	2.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	25.61	25.63	25.61	26.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	25.37	25.44	25.35	26.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	25.36	25.35	25.30	26.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	25.38	25.57	25.39	26.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	25.48	25.55	25.51	25.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	25.23	25.24	25.47	26.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	25.33	25.58	25.33	26.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	25.50	25.60	25.36	26.0	0.0



SA PC2 Part27Q n78 Ant12 DSI4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.50					
100	PI2 BPSK	1	137	25.64			28.0	0.0	
100	PI2 BPSK	1	271	25.41					
100	PI2 BPSK	135	0	25.58			28.0	0.0	
100	PI2 BPSK	135	69	25.63			28.0	0.0	
100	PI2 BPSK	135	138	25.46			28.0	0.0	
100	PI2 BPSK	270	0	25.49			28.0	0.0	
100	QPSK	1	1	25.67					
100	QPSK	1	137	25.47			28.0	0.0	
100	QPSK	1	271	25.53					
100	QPSK	135	0	25.46			28.0	0.0	
100	QPSK	135	69	25.56			28.0	0.0	
100	QPSK	135	138	25.47			28.0	0.0	
100	QPSK	270	0	25.53			28.0	0.0	
100	16QAM	1	1	25.49			28.0	0.0	
100	16QAM	1	1	24.96			25.5	0.5	
100	256QAM	1	1	23.22			23.5	2.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	23.37	23.44	23.06	28.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	25.54	25.37	25.17	28.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	25.43	25.43	25.12	28.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	25.43	25.50	25.03	28.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	25.38	25.52	25.01	28.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	25.46	25.62	25.18	28.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	25.49	25.39	25.08	28.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	25.49	25.45	25.00	28.0	0.0	

NSA PC3 n78 Ant12 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.12					
100	PI2 BPSK	1	137	23.28			24.5	0.0	
100	PI2 BPSK	1	271	23.19					
100	PI2 BPSK	135	0	23.18			24.5	0.0	
100	PI2 BPSK	135	69	23.26			24.5	0.0	
100	PI2 BPSK	135	138	23.05			24.5	0.0	
100	PI2 BPSK	270	0	23.26			24.5	0.0	
100	QPSK	1	1	23.40					
100	QPSK	1	137	23.22			24.5	0.0	
100	QPSK	1	271	23.17					
100	QPSK	135	0	23.08			24.5	0.0	
100	QPSK	135	69	23.42			24.5	0.0	
100	QPSK	135	138	23.10			24.5	0.0	
100	QPSK	270	0	23.27			24.5	0.0	
100	16QAM	1	1	23.36			24.5	0.0	
100	16QAM	1	1	23.36			24.5	0.0	
100	256QAM	1	1	23.37			23.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.97	23.19	23.13	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	23.15	23.21	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	23.10	23.22	23.03	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	23.16	23.19	22.99	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	23.02	23.25	22.94	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	23.07	23.12	22.96	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.03	23.14	23.02	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.08	23.21	23.16	24.5	0.0	

NSA PC3 Part27Q n78 Ant12 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.28					
100	PI2 BPSK	1	137	23.13			24.5	0.0	
100	PI2 BPSK	1	271	23.14					
100	PI2 BPSK	135	0	23.12			24.5	0.0	
100	PI2 BPSK	135	69	23.15			24.5	0.0	
100	PI2 BPSK	135	138	23.24			24.5	0.0	
100	PI2 BPSK	270	0	23.07			24.5	0.0	
100	QPSK	1	1	23.43					
100	QPSK	1	137	23.23			24.5	0.0	
100	QPSK	1	271	23.10					
100	QPSK	135	0	22.98			24.5	0.0	
100	QPSK	135	69	23.24			24.5	0.0	
100	QPSK	135	138	23.20			24.5	0.0	
100	QPSK	270	0	23.22			24.5	0.0	
100	16QAM	1	1	23.40			24.5	0.0	
100	16QAM	1	1	23.18			24.0	0.5	
100	256QAM	1	1	23.28			22.0	2.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	22.91	23.04	23.08	24.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	22.87	23.05	23.05	24.5	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	22.84	22.96	23.09	24.5	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	22.90	22.96	23.11	24.5	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	22.89	22.95	23.04	24.5	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	22.83	22.83	23.19	24.5	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	22.85	22.86	23.22	24.5	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.94	22.97	23.04	24.5	0.0	



SA PC2 n78 Ant12 DSI 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		3760			
100	Pi2 BPSK	1	137	20.15	20.20	20.25	20.5	0.0
100	Pi2 BPSK	1	271	20.20	20.23	20.26		
100	Pi2 BPSK	135	0	20.19	20.19	20.19	20.5	0.0
100	Pi2 BPSK	135	69	20.24	20.24	20.24	20.5	0.0
100	Pi2 BPSK	135	138	20.26	20.26	20.26	20.5	0.0
100	Pi2 BPSK	270	0	20.22	20.22	20.22	20.5	0.0
100	QPSK	1	1	20.26	20.26	20.26	20.5	0.0
100	QPSK	1	137	20.29	20.29	20.29	20.5	0.0
100	QPSK	1	271	20.25	20.25	20.25	20.5	0.0
100	QPSK	135	0	20.13	20.13	20.13	20.5	0.0
100	QPSK	135	69	20.26	20.26	20.26	20.5	0.0
100	QPSK	135	138	20.26	20.26	20.26	20.5	0.0
100	QPSK	270	0	20.27	20.27	20.27	20.5	0.0
100	16QAM	1	1	20.17	20.17	20.17	20.5	0.0
100	64QAM	1	1	20.26	20.26	20.26	20.5	0.0
100	256QAM	1	1	20.16	20.16	20.16	20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	3745.02	3760	3765.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.11	20.18	20.09	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3746.01	3760	3765.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.10	20.17	20.12	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.08	20.15	20.10	20.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.04	20.25	20.12	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64868	65000	65168	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3760	3765.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	20.12	20.21	20.06	20.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	3735.02	3760	3765.03	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.15	20.20	19.99	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3715.02	3760	3765.03	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.12	20.27	20.05	20.5	0.0

SA PC2 Par27Q n78 Ant12 DSI 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		30000			
100	Pi2 BPSK	1	137	20.25	20.25	20.25	20.5	0.0
100	Pi2 BPSK	1	271	20.21	20.21	20.21		
100	Pi2 BPSK	135	0	20.16	20.16	20.16	20.5	0.0
100	Pi2 BPSK	135	69	20.20	20.20	20.20	20.5	0.0
100	Pi2 BPSK	135	138	20.13	20.13	20.13	20.5	0.0
100	Pi2 BPSK	270	0	20.16	20.16	20.16	20.5	0.0
100	QPSK	1	1	20.25	20.25	20.25	20.5	0.0
100	QPSK	1	137	20.25	20.25	20.25	20.5	0.0
100	QPSK	1	271	20.24	20.24	20.24	20.5	0.0
100	QPSK	135	0	20.14	20.14	20.14	20.5	0.0
100	QPSK	135	69	20.22	20.22	20.22	20.5	0.0
100	QPSK	135	138	20.16	20.16	20.16	20.5	0.0
100	QPSK	270	0	20.18	20.18	20.18	20.5	0.0
100	16QAM	1	1	20.22	20.22	20.22	20.5	0.0
100	64QAM	1	1	20.26	20.26	20.26	20.5	0.0
100	256QAM	1	1	20.20	20.20	20.20	20.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	63000	63334	63668	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
90	QPSK	1	1	3495	3500.01	3505.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	20.00	20.03	20.13	20.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3496.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	20.07	20.18	20.06	20.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	3485.01	3500.01	3515.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	63200	63334	63468	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	20.01	20.13	20.02	20.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	63168	63334	63500	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	6322.01	6333.01	6353.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3470.01	3500.01	3530.01	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.99	20.20	20.17	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	3465	3500.01	3535.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	20.06	20.21	20.08	20.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	63668	63334	63000	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	3460.02	3500.01	3540	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	20.02	20.04	20.11	20.5	0.0

NSA PC3 n78 Ant12 DSI 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		3750			
100	Pi2 BPSK	1	137	18.17	18.22	18.27	18.5	0.0
100	Pi2 BPSK	1	271	18.30	18.30	18.30		
100	Pi2 BPSK	135	0	18.13	18.13	18.13	18.5	0.0
100	Pi2 BPSK	135	69	18.25	18.25	18.25	18.5	0.0
100	Pi2 BPSK	135	138	18.17	18.17	18.17	18.5	0.0
100	Pi2 BPSK	270	0	18.31	18.31	18.31	18.5	0.0
100	QPSK	1	1	18.39	18.39	18.39	18.5	0.0
100	QPSK	1	137	18.23	18.23	18.23	18.5	0.0
100	QPSK	1	271	18.15	18.15	18.15	18.5	0.0
100	QPSK	135	0	18.13	18.13	18.13	18.5	0.0
100	QPSK	135	69	18.21	18.21	18.21	18.5	0.0
100	QPSK	135	138	18.15	18.15	18.15	18.5	0.0
100	QPSK	270	0	18.30	18.30	18.30	18.5	0.0
100	16QAM	1	1	18.25	18.25	18.25	18.5	0.0
100	64QAM	1	1	18.36	18.36	18.36	18.5	0.0
100	256QAM	1	1	18.24	18.24	18.24	18.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
90	QPSK	1	1	18.06	18.18	18.06	18.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	3746.01	3760	3765.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	18.06	18.27	18.19	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	18.01	18.24	18.01	18.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	3735	3760	3765	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	64868	65000	65134	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	18.16	18.32	18.21	18.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64534	65000	65168	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3760	3765.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	18.07	18.27	17.99	18.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	3725	3760	3765	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	18.16	18.21	18.00	18.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64234	65000	65068	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	3710.01	3760	3765.02	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	18.06	18.28	18.02	18.5	0.0



NSA PC3 Part27Q n78 Ant12 DSI 5								
EW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Upper Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633334	633334			
Frequency (MHz)				300001				
100	PI2 BPSK	1	1	18.21				
100	PI2 BPSK	1	137	18.21			18.5	0.0
100	PI2 BPSK	1	271	18.12				
100	PI2 BPSK	135	0	18.14			18.5	0.0
100	PI2 BPSK	135	69	18.08			18.5	0.0
100	PI2 BPSK	135	138	18.21			18.5	0.0
100	PI2 BPSK	270	0	18.18				
100	QPSK	1	1	18.34				
100	QPSK	1	137	18.27			18.5	0.0
100	QPSK	1	271	18.20				
100	QPSK	135	0	18.06			18.5	0.0
100	QPSK	135	69	18.27			18.5	0.0
100	QPSK	135	138	18.22			18.5	0.0
100	QPSK	270	0	18.18				
100	16QAM	1	1	18.33			18.5	0.0
100	64QAM	1	1	18.11			18.5	0.0
100	256QAM	1	1	18.23			18.5	0.0
Channel				633000	633334	633668	Tune-up limit	MPR
Frequency (MHz)				3495	300001	300502	(dBm)	(dB)
90	QPSK	1	1	17.85	17.84	18.15	18.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				349502	300001	3510	(dBm)	(dB)
80	QPSK	1	1	18.14	18.21	18.04	18.5	0.0
Channel				632301	633334	634301	Tune-up limit	MPR
Frequency (MHz)				348501	300001	351501	(dBm)	(dB)
70	QPSK	1	1	17.97	18.23	17.92	18.5	0.0
Channel				632000	633334	634668	Tune-up limit	MPR
Frequency (MHz)				3480	300001	352002	(dBm)	(dB)
60	QPSK	1	1	18.00	18.02	17.92	18.5	0.0
Channel				631668	633334	635000	Tune-up limit	MPR
Frequency (MHz)				347502	300001	3525	(dBm)	(dB)
50	QPSK	1	1	18.01	17.95	18.24	18.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				347001	300001	353001	(dBm)	(dB)
40	QPSK	1	1	17.82	18.14	18.22	18.5	0.0
Channel				631000	633334	635668	Tune-up limit	MPR
Frequency (MHz)				3465	300001	353502	(dBm)	(dB)
30	QPSK	1	1	18.00	18.14	17.98	18.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				346002	300001	3540	(dBm)	(dB)
20	QPSK	1	1	17.93	18.10	18.22	18.5	0.0



WLAN/Bluetooth Power

Ant+9 Full power					For Head Stairalone		For Head Simultaneous		For Hotspot		For Body worn Stairalone&Simultaneous		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b (Mbps)	1	2412	21.22	22.00	18.45	19.00	18.38	16.00	21.22	22.00	21.22	22.00	85.90
		6	2437	21.21	22.00	18.39	19.00	15.36	16.00	21.21	22.00	21.21	22.00	
		11	2462	20.82	22.00	18.35	19.00	15.33	16.00	20.82	22.00	20.82	22.00	
	802.11g (Mbps)	1	2412	19.18	20.00					19.18	20.00	19.18	20.00	85.90
		6	2437	19.23	20.00					19.23	20.00	19.23	20.00	
		11	2462	18.87	20.00					18.87	20.00	18.87	20.00	
	802.11n-HT20 MCS9	1	2412	19.03	20.00					19.03	20.00	19.03	20.00	94.40
		6	2437	19.02	20.00					19.02	20.00	19.02	20.00	
		11	2462	18.62	20.00					18.62	20.00	18.62	20.00	
	802.11n-HT40 MCS9	3	2422	18.21	19.50					18.21	19.50	18.21	19.50	97.10
		6	2437	18.97	20.00					18.97	20.00	18.97	20.00	
		9	2452	18.27	19.50					18.27	19.50	18.27	19.50	
	802.11ax-HE20 MCS9	1	2412	19.13	20.00					19.13	20.00	19.13	20.00	97.60
		6	2437	19.22	20.00					19.22	20.00	19.22	20.00	
		11	2462	18.72	20.00					18.72	20.00	18.72	20.00	
	802.11ax-HE40 MCS9	3	2422	18.31	19.50					18.31	19.50	18.31	19.50	97.40
		6	2437	19.07	20.00					19.07	20.00	19.07	20.00	
		9	2452	18.37	19.50					18.37	19.50	18.37	19.50	

Ant+9 Full power					For Head Stairalone		For Head Simultaneous		For Hotspot		For Body worn Stairalone&Simultaneous		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a (Mbps)	36	5180	19.31	20.50					19.31	20.50	19.31	20.50	86.60
		44	5220	19.31	20.50					19.31	20.50	19.31	20.50	
		48	5240	19.36	20.50					19.36	20.50	19.36	20.50	
	802.11n-HT20 MCS9	44	5220	19.12	20.00					19.12	20.00	19.12	20.00	94.60
		48	5240	18.96	20.00					18.96	20.00	18.96	20.00	
		38	5190	16.31	17.50					16.31	17.50	16.31	17.50	
	802.11n-HT40 MCS9	46	5250	18.92	20.00					18.92	20.00	18.92	20.00	97.20
		36	5180	18.96	20.00					18.96	20.00	18.96	20.00	
		44	5220	19.02	20.00					19.02	20.00	19.02	20.00	
	802.11ac VHT20 MCS9	48	5240	18.86	20.00					18.86	20.00	18.86	20.00	97.10
		38	5190	16.21	17.50					16.21	17.50	16.21	17.50	
		46	5250	19.82	20.00					19.82	20.00	19.82	20.00	
	802.11ac VHT40 MCS9	42	5210	16.76	18.00					16.76	18.00	16.76	18.00	97.40
		36	5180	19.16	20.00					19.16	20.00	19.16	20.00	
		44	5220	19.22	20.00					19.22	20.00	19.22	20.00	
	802.11ax-HE20 MCS9	48	5240	19.06	20.00					19.06	20.00	19.06	20.00	97.70
		38	5190	16.41	17.50					16.41	17.50	16.41	17.50	
		46	5250	19.02	20.00					19.02	20.00	19.02	20.00	
802.11ax-HE40 MCS9	42	5210	16.86	18.00					16.86	18.00	16.86	18.00	96.80	
	38	5190	16.41	17.50					16.41	17.50	16.41	17.50		
	46	5250	19.02	20.00					19.02	20.00	19.02	20.00		

Ant+9 Full power					For Head Stairalone		For Head Simultaneous		For Extremely Stairalone&Simultaneous		For Body worn Stairalone&Simultaneous		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.8GHz WLAN	802.11a (Mbps)	52	5260	19.94	20.50					19.94	20.50	19.94	20.50	86.60
		60	5300	19.31	20.50					19.31	20.50	19.31	20.50	
		64	5320	19.08	20.50					19.08	20.50	19.08	20.50	
	802.11n-HT20 MCS9	52	5260	19.21	20.00					19.21	20.00	19.21	20.00	94.60
		60	5300	19.18	20.00					19.18	20.00	19.18	20.00	
		64	5320	18.74	20.00					18.74	20.00	18.74	20.00	
	802.11n-HT40 MCS9	54	5270	18.98	20.00	17.61	18.50			18.98	20.00	18.98	20.00	97.20
		62	5310	16.54	17.50					16.54	17.50	16.54	17.50	
		52	5260	19.11	20.00					19.11	20.00	19.11	20.00	
	802.11ac VHT20 MCS9	60	5300	19.08	20.00					19.08	20.00	19.08	20.00	97.10
		64	5320	18.64	20.00					18.64	20.00	18.64	20.00	
		54	5270	18.88	20.00					18.88	20.00	18.88	20.00	
	802.11ac VHT40 MCS9	62	5310	16.44	17.50					16.44	17.50	16.44	17.50	97.20
		58	5290	16.43	17.50					16.43	17.50	16.43	17.50	
		50	5250	14.27	15.50					14.27	15.50	14.27	15.50	
	802.11ax-HE20 MCS9	62	5310	16.64	17.50					16.64	17.50	16.64	17.50	96.40
		52	5260	19.31	20.00					19.31	20.00	19.31	20.00	
		60	5300	19.28	20.00					19.28	20.00	19.28	20.00	
802.11ax-HE40 MCS9	64	5320	18.84	20.00					18.84	20.00	18.84	20.00	97.70	
	54	5270	19.08	20.00					19.08	20.00	19.08	20.00		
	62	5310	16.64	17.50					16.64	17.50	16.64	17.50		
802.11ax-HE80 MCS9	58	5290	16.53	17.50					16.53	17.50	16.53	17.50	96.80	
	50	5250	14.37	15.50					14.37	15.50	14.37	15.50		
	64	5320	18.84	20.00					18.84	20.00	18.84	20.00		

Ant+9 Full power					For Head Stairalone		For Head Simultaneous		For Extremely Stairalone&Simultaneous		For Body worn Stairalone&Simultaneous		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.8GHz WLAN	802.11a (Mbps)	100	5500	18.34	19.50					18.34	19.50	18.34	19.50	86.60
		116	5580	18.87	20.00					18.87	20.00	18.87	20.00	
		140	5700	18.57	19.50					18.57	19.50	18.57	19.50	
	802.11n-HT20 MCS9	100	5500	17.94	19.00					17.94	19.00	17.94	19.00	94.60
		116	5580	18.57	19.50					18.57	19.50	18.57	19.50	
		140	5700	18.38	19.50					18.38	19.50	18.38	19.50	
	802.11n-HT40 MCS9	100	5500	17.84	19.00					17.84	19.00	17.84	19.00	97.20
		116	5580	18.27	19.50					18.27	19.50	18.27	19.50	
		140	5700	18.38	19.50					18.38	19.50	18.38	19.50	
	802.11ac VHT20 MCS9	100	5500	17.84	19.00					17.84	19.00	17.84	19.00	97.10
		116	5580	18.27	19.50					18.27	19.50	18.27	19.50	
		140	5700	18.28	19.50					18.28	19.50	18.28	19.50	
	802.11ac VHT40 MCS9	102	5510	17.80	19.00					17.80	19.00	17.80	19.00	97.20
		110	5550	18.17	19.00					18.17	19.00	18.17	19.00	
		134	5670	18.28	19.50					18.28	19.50	18.28	19.50	
	802.11ax-HE20 MCS9	102	5510	17.97	19.00					17.97	19.00	17.97	19.00	97.40
		114	5570	13.76	15.00					13.76	15.00	13.76	15.00	
		100	5500	18.04	19.00					18.04	19.00	18.04	19.00	
802.11ax-HE40 MCS9	110	5550	18.17	19.00					18.17	19.00	18.17	19.00	97.60	
	134	5670	18.26	19.50					18.26	19.50	18.26	19.50		
	142	5710	18.17	19.00					18.17	19.00	18.17	19.00		
802.11ax-HE80 MCS9	106	5530	16.28	17.50					16.28	17.50	16.28	17.50	96.80	
	122	5610	18.31	19.50					18.31	19.50	18.31	19.50		
	138	5690	18.23	19.50					18.23	19.50	18.23	19.50		
802.11ac VHT80 MCS9	114	5570	13.88	15.00					13.88	15.00	13.88	15.00	96.40	
	106	5530	16.28	17.50					16.28	17.50	16.28	17.50		
	142	5710	18.17	19.00					18.17	19.00	1			

ANT7:

BT BR/EDR			Ant 7 Full power			For Head Standalone			For Head Simultaneous			Hotspot/Body worn Standalone&Simultaneous		
Mode	Channel	Frequency (MHz)	Average power (dBm)			Average power (dBm)			Average power (dBm)			Average power (dBm)		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.99	14.92	15.02	15.48	13.12	13.21	9.47	7.20	7.26	17.35	14.92	15.02
	CH 39	2441	18.41	15.47	15.52	15.99	13.58	13.75	10.10	7.65	7.68	17.86	15.47	15.52
	CH 78	2480	17.66	14.77	14.87	15.34	13.12	13.24	9.35	6.95	7.10	17.06	14.77	14.87
Tune-up Limit			19	16.5	16.5	17	14.5	14.5	11	8.5	8.5	19	16.5	16.5

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	4.00
	CH 19	2440	5.10
	CH 39	2480	4.30
Tune-up Limit			6

BT LE V5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
			1Mbps
LE	CH 00	2402	4.00
	CH 19	2440	5.10
	CH 39	2480	4.30
Tune-up Limit			6

ANT9:

BT BR/EDR			Ant 9 Full power			For Head Standalone			For Head Simultaneous			For Body worn Standalone			For Hotspot		
Mode	Channel	Frequency (MHz)	Average power (dBm)			Average power (dBm)			Average power (dBm)			Average power (dBm)			Average power (dBm)		
			1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	16.03	14.41	14.47	14.25	12.62	12.68	7.24	5.68	5.70	16.03	14.41	14.47	11.21	9.63	9.63
	CH 39	2441	16.18	14.57	14.59	14.42	12.76	12.76	7.35	5.73	5.83	16.18	14.57	14.59	11.32	9.76	9.72
	CH 78	2480	14.93	13.37	13.38	13.16	11.57	11.62	6.25	4.56	4.56	14.93	13.37	13.38	10.10	8.57	8.56
Tune-up Limit			17	15.5	15.5	15	13.5	13.5	8	6.5	6.5	17	15.5	15.5	12	10.5	10.5

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	5.60
	CH 19	2440	6.80
	CH 39	2480	5.50
Tune-up Limit			8

BT LE V5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
			1Mbps
LE	CH 00	2402	5.40
	CH 19	2440	6.60
	CH 39	2480	5.50
Tune-up Limit			8