



## **Appendix F-1. WWAN Head / Body-worn Output Power Measurement**

### **<GSM Note>**

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

### **<WCDMA Note>**

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
4. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

A summary of these settings are illustrated below:

**HSDPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC 12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

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

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

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

**Setup Configuration**

**HSUPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting \* :
  - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - ii. Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
  - iii. Set Cell Power = -86 dBm
  - iv. Set Channel Type = 12.2k + HSPA
  - v. Set UE Target Power
  - vi. Power Ctrl Mode= Alternating bits
  - vii. Set and observe the E-TFCl
  - viii. Confirm that E-TFCl is equal to the target E-TFCl of 75 for sub-test 1, and other subtest's E-TFCl
- d. The transmitted maximum output power was recorded.

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note1)	$\beta_{ec}$	$\beta_{ed}$ (Note 4) (Note 5)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCl
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

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

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

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

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

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

**Setup Configuration**



**<LTE Note>**

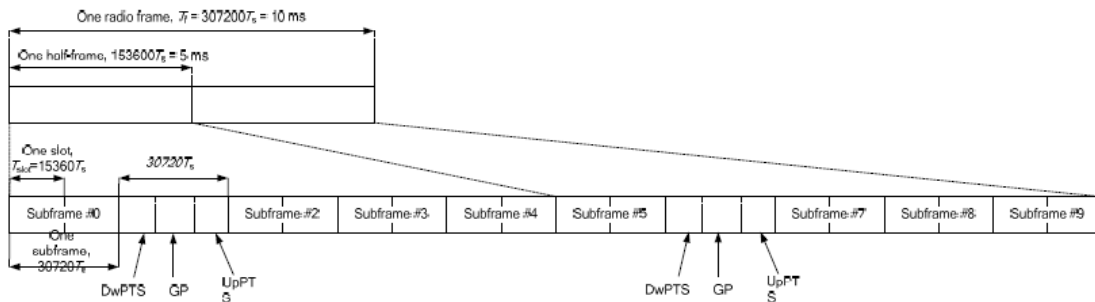
1. Anritsu base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4/B5/B12/B26/B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/38 SAR test was covered by Band 25/26/41/66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**<TDD LTE SAR Measurement>**

TDD LTE configuration setup for SAR measurement

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

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



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

**Table 4.2-2: Uplink-downlink configurations.**

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

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

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

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



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

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



**<5G NR Note>**

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
  - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
  - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is  $\leq 1.45$  W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
  - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
  - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD Power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. For NR TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission.
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing

**<3GPP 38.101 MPR for EN-DC>**

**Table 6.2.2-1 Maximum power reduction (MPR) for power class 3**

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$ $\leq 0.5^2$	$\leq 1.2^1$ $\leq 0.5^2$	$\leq 0.2^1$ $0^2$
	QPSK		$\leq 1$	0
	16 QAM		$\leq 2$	$\leq 1$
	64 QAM			$\leq 2.5$
	256 QAM			$\leq 4.5$
CP-OFDM	QPSK		$\leq 3$	$\leq 1.5$
	16 QAM		$\leq 3$	$\leq 2$
	64 QAM			$\leq 3.5$
	256 QAM			$\leq 6.5$

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Table 6.2.2-2 Maximum power reduction (MPR) for power class 2**

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5$	$\leq 0.5$	0
	QPSK	$\leq 3.5$	$\leq 1$	0
	16 QAM	$\leq 3.5$	$\leq 2$	$\leq 1$
	64 QAM	$\leq 3.5$		$\leq 2.5$
	256 QAM		$\leq 4.5$	
CP-OFDM	QPSK	$\leq 3.5$	$\leq 3$	$\leq 1.5$
	16 QAM	$\leq 3.5$	$\leq 3$	$\leq 2$
	64 QAM		$\leq 3.5$	
	256 QAM		$\leq 6.5$	



**<WLAN Note>**

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
6. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
7. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
8. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
9. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

**<Bluetooth>**

For 2.4GHz Bluetooth SAR testing was selected ER/EDR 1Mbps due to its highest average power and duty cycle list below are considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation, for the duty cycle figure and output



# DSI 1

<GSM>								
GSM850_Ant 0_DSI 1_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.88	32.95	32.85	34.00	23.88	23.95	23.85	25.00
GPRS 1 Tx slot	32.79	32.87	32.81	34.00	23.79	23.87	23.81	25.00
GPRS 2 Tx slots	29.88	29.85	29.82	31.00	23.88	23.85	23.82	25.00
GPRS 3 Tx slots	28.14	27.91	28.06	29.20	23.88	23.65	23.80	24.94
GPRS 4 Tx slots	26.85	26.99	26.74	28.00	23.85	23.99	23.74	25.00
EDGE 1 Tx slot	26.99	27.01	26.93	28.00	17.99	18.01	17.93	19.00
EDGE 2 Tx slots	23.83	23.89	23.75	25.00	17.83	17.89	17.75	19.00
EDGE 3 Tx slots	21.70	21.59	21.49	23.00	17.44	17.33	17.23	18.74
EDGE 4 Tx slots	19.87	19.87	19.72	21.00	16.87	16.87	16.72	18.00

<GSM>								
GSM850_Ant 1_DSI 1_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
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	28.21	28.08	27.97	29.50	19.21	19.08	18.97	20.50
GPRS 1 Tx slot	28.15	27.98	27.90	29.50	19.15	18.98	18.90	20.50
GPRS 2 Tx slots	25.25	25.08	24.97	26.50	19.25	19.08	18.97	20.50
GPRS 3 Tx slots	23.47	23.33	23.19	24.70	19.21	19.07	18.93	20.44
GPRS 4 Tx slots	22.20	22.31	21.91	23.50	19.20	19.31	18.91	20.50
EDGE 1 Tx slot	22.18	22.29	22.32	23.50	13.18	13.29	13.32	14.50
EDGE 2 Tx slots	19.01	18.97	19.05	20.00	13.01	12.97	13.05	14.00
EDGE 3 Tx slots	16.88	17.11	17.01	18.00	12.62	12.85	12.75	13.74
EDGE 4 Tx slots	15.16	15.18	15.17	16.00	12.16	12.18	12.17	13.00

<GSM>								
GSM1900_Ant 2_DSI 1_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.20	27.31	27.21	28.00	18.21	18.30	18.25	19.00
GPRS 1 Tx slot	27.25	27.34	27.29	28.00	18.25	18.34	18.29	19.00
GPRS 2 Tx slots	24.18	24.25	24.20	25.00	18.18	18.25	18.20	19.00
GPRS 3 Tx slots	22.45	22.52	22.45	23.20	18.19	18.26	18.19	18.94
GPRS 4 Tx slots	21.38	21.36	21.22	22.00	18.38	18.36	18.22	19.00
EDGE 1 Tx slot	22.91	22.84	22.84	23.00	13.91	13.84	13.84	14.00
EDGE 2 Tx slots	19.51	19.52	19.45	20.00	13.51	13.52	13.45	14.00
EDGE 3 Tx slots	17.17	17.15	17.17	17.50	12.91	12.89	12.91	13.24
EDGE 4 Tx slots	15.44	15.26	15.31	15.50	12.44	12.26	12.31	12.50

<b>&lt;GSM&gt;</b>								
GSM1900_Ant 5_DSI 1_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.61	29.68	29.51	30.00	20.61	20.68	20.51	21.00
GPRS 1 Tx slot	29.45	29.68	29.58	30.00	20.45	20.68	20.58	21.00
GPRS 2 Tx slots	26.58	26.74	26.63	27.00	20.58	20.74	20.63	21.00
GPRS 3 Tx slots	24.82	24.95	24.84	25.20	20.56	20.69	20.58	20.94
GPRS 4 Tx slots	23.69	23.70	23.55	24.00	20.69	20.70	20.55	21.00
EDGE 1 Tx slot	25.01	25.25	24.98	25.50	16.01	16.25	15.98	16.50
EDGE 2 Tx slots	21.78	21.85	21.49	22.00	15.78	15.85	15.49	16.00
EDGE 3 Tx slots	19.38	19.47	19.01	20.00	15.12	15.21	14.75	15.74
EDGE 4 Tx slots	17.55	17.56	17.28	18.00	14.55	14.56	14.28	15.00

<b>&lt;WCDMA&gt;</b>					
Band		WCDMA V_Ant 0_DSI 1_Main PA			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.12	24.19	24.09	25.00
3GPP Rel 99	RMC 12.2Kbps	24.15	24.21	24.11	25.00
3GPP Rel 6	HSDPA Subtest-1	23.01	23.07	22.97	24.00
3GPP Rel 6	HSDPA Subtest-2	23.02	23.08	22.99	24.00
3GPP Rel 6	HSDPA Subtest-3	22.64	22.65	22.57	23.50
3GPP Rel 6	HSDPA Subtest-4	22.58	22.65	22.53	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.03	23.08	22.99	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.01	23.07	23.00	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.61	22.63	22.60	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.55	22.69	22.53	23.50
3GPP Rel 6	HSUPA Subtest-1	23.02	23.08	22.98	24.00
3GPP Rel 6	HSUPA Subtest-2	21.03	21.11	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	21.96	22.11	21.93	23.00
3GPP Rel 6	HSUPA Subtest-4	21.04	21.10	20.99	22.00
3GPP Rel 6	HSUPA Subtest-5	23.01	23.07	22.97	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.53	20.58	20.44	21.50



<WCDMA>					
Band		WCDMA V_Ant 1_DSI 1_Main PA			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	18.40	18.56	18.33	20.00
3GPP Rel 99	RMC 12.2Kbps	18.42	18.58	18.36	20.00
3GPP Rel 6	HSDPA Subtest-1	17.39	17.52	17.29	19.00
3GPP Rel 6	HSDPA Subtest-2	17.42	17.48	17.35	19.00
3GPP Rel 6	HSDPA Subtest-3	16.86	17.03	16.85	18.50
3GPP Rel 6	HSDPA Subtest-4	16.83	17.07	16.86	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.42	17.48	17.32	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.39	17.51	17.28	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.86	17.08	16.85	18.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.91	17.00	16.85	18.50
3GPP Rel 6	HSUPA Subtest-1	17.32	17.55	17.34	19.00
3GPP Rel 6	HSUPA Subtest-2	15.35	15.54	15.29	17.00
3GPP Rel 6	HSUPA Subtest-3	16.36	16.56	16.31	18.00
3GPP Rel 6	HSUPA Subtest-4	15.36	15.51	15.32	17.00
3GPP Rel 6	HSUPA Subtest-5	17.35	17.56	17.28	19.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.52	15.68	15.44	16.50

<WCDMA>									
Band		WCDMA II_Ant 2_DSI 1_Main PA			Tune-up Limit (dBm)	WCDMA IV_Ant 2_DSI 1_Main PA			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	17.61	17.69	17.56	18.50	17.65	17.78	17.76	18.50
3GPP Rel 99	RMC 12.2Kbps	17.64	17.72	17.59	18.50	17.71	17.82	17.79	18.50
3GPP Rel 6	HSDPA Subtest-1	16.55	16.68	16.49	17.50	16.64	16.81	16.75	17.50
3GPP Rel 6	HSDPA Subtest-2	16.64	16.65	16.51	17.50	16.70	16.80	16.73	17.50
3GPP Rel 6	HSDPA Subtest-3	16.13	16.20	16.07	17.00	16.18	16.30	16.29	17.00
3GPP Rel 6	HSDPA Subtest-4	16.05	16.20	16.05	17.00	16.19	16.25	16.21	17.00
3GPP Rel 8	DC-HSDPA Subtest-1	16.62	16.65	16.50	17.50	16.62	16.80	16.72	17.50
3GPP Rel 8	DC-HSDPA Subtest-2	16.60	16.64	16.53	17.50	16.64	16.82	16.78	17.50
3GPP Rel 8	DC-HSDPA Subtest-3	16.13	16.17	16.06	17.00	16.13	16.22	16.29	17.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.08	16.14	16.01	17.00	16.17	16.28	16.26	17.00
3GPP Rel 6	HSUPA Subtest-1	16.61	16.69	16.58	17.50	16.63	16.79	16.78	17.50
3GPP Rel 6	HSUPA Subtest-2	14.70	14.74	14.50	15.50	14.61	14.79	14.79	15.50
3GPP Rel 6	HSUPA Subtest-3	15.58	15.63	15.58	16.50	15.62	15.81	15.74	16.50
3GPP Rel 6	HSUPA Subtest-4	14.56	14.71	14.54	15.50	14.63	14.78	14.72	15.50
3GPP Rel 6	HSUPA Subtest-5	16.56	16.67	16.55	17.50	16.66	16.82	16.73	17.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.09	14.22	14.00	15.00	14.14	14.23	14.20	15.00



<WCDMA>									
Band		WCDMA II_Ant 5_DSI 1_Main PA			Tune-up Limit (dBm)	WCDMA IV_Ant 5_DSI 1_Main PA			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	23.47	23.59	23.59	25.00	23.64	23.74	23.55	25.20
3GPP Rel 99	RMC 12.2Kbps	23.56	23.69	23.59	25.00	23.72	23.77	23.64	25.20
3GPP Rel 6	HSDPA Subtest-1	22.65	22.63	22.58	24.00	22.98	23.00	22.82	24.20
3GPP Rel 6	HSDPA Subtest-2	22.49	22.77	22.65	24.00	23.02	22.98	22.89	24.20
3GPP Rel 6	HSDPA Subtest-3	22.16	22.29	22.13	23.50	22.34	22.54	22.43	23.70
3GPP Rel 6	HSDPA Subtest-4	21.98	22.23	22.00	23.50	22.48	22.54	22.38	23.70
3GPP Rel 8	DC-HSDPA Subtest-1	22.63	22.64	22.49	24.00	22.97	22.95	22.91	24.20
3GPP Rel 8	DC-HSDPA Subtest-2	22.50	22.66	22.60	24.00	22.90	23.07	22.79	24.20
3GPP Rel 8	DC-HSDPA Subtest-3	22.14	22.26	22.16	23.50	22.52	22.54	22.36	23.70
3GPP Rel 8	DC-HSDPA Subtest-4	22.13	22.09	22.17	23.50	22.39	22.48	22.26	23.70
3GPP Rel 6	HSUPA Subtest-1	22.59	22.67	22.61	24.00	23.00	22.94	22.92	24.20
3GPP Rel 6	HSUPA Subtest-2	20.62	20.67	20.52	22.00	21.00	20.93	20.91	22.20
3GPP Rel 6	HSUPA Subtest-3	21.49	21.60	21.51	23.00	21.96	21.90	21.75	23.20
3GPP Rel 6	HSUPA Subtest-4	20.60	20.71	20.55	22.00	20.93	20.89	20.81	22.20
3GPP Rel 6	HSUPA Subtest-5	22.46	22.66	22.61	24.00	22.92	22.98	22.82	24.20
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.16	20.13	20.05	21.50	20.38	20.49	20.32	21.70



<LTE Band 2_Ant 2_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	19.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.65	18.75	18.71	19.5
20	QPSK	1	49	18.54	18.64	18.61	
20	QPSK	1	99	18.49	18.58	18.54	
20	QPSK	50	0	18.63	18.74	18.69	19.5
20	QPSK	50	24	18.52	18.61	18.59	
20	QPSK	50	50	18.47	18.55	18.53	
20	QPSK	100	0	18.62	18.72	18.70	19.5
20	16QAM	1	0	18.56	18.67	18.62	
20	16QAM	1	49	18.46	18.55	18.55	
20	16QAM	1	99	18.44	18.48	18.48	19.5
20	16QAM	50	0	18.57	18.66	18.64	
20	16QAM	50	24	18.44	18.52	18.49	
20	16QAM	50	50	18.41	18.49	18.47	19.5
20	16QAM	100	0	18.54	18.67	18.60	
20	64QAM	1	0	18.60	18.70	18.63	
20	64QAM	1	49	18.46	18.59	18.51	19.5
20	64QAM	1	99	18.39	18.48	18.46	
20	64QAM	50	0	18.55	18.66	18.60	
20	64QAM	50	24	18.43	18.52	18.49	19.5
20	64QAM	50	50	18.41	18.50	18.48	
20	64QAM	100	0	18.56	18.64	18.62	
20	256QAM	1	0	18.58	18.70	18.61	19.5
20	256QAM	1	49	18.48	18.56	18.55	
20	256QAM	1	99	18.44	18.50	18.47	
20	256QAM	50	0	18.54	18.68	18.64	19.5
20	256QAM	50	24	18.47	18.53	18.54	
20	256QAM	50	50	18.39	18.49	18.46	
20	256QAM	100	0	18.54	18.65	18.63	19.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.53	18.61	18.56	19.5
Channel				18650	18900	19150	19.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.53	18.60	18.58	19.5
Channel				18625	18900	19175	19.5
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.45	18.63	18.54	19.5
Channel				18615	18900	19185	19.5
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.45	18.55	18.56	19.5
Channel				18607	18900	19193	19.5
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.47	18.57	18.55	19.5



<LTE Band 2_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	18
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	16.33	16.44	16.27	18
20	QPSK	1	49	16.26	16.37	16.18	
20	QPSK	1	99	16.24	16.37	16.21	
20	QPSK	50	0	16.29	16.39	16.25	18
20	QPSK	50	24	16.19	16.31	16.18	
20	QPSK	50	50	16.23	16.31	16.17	
20	QPSK	100	0	16.31	16.40	16.24	18
20	16QAM	1	0	16.26	16.37	16.18	
20	16QAM	1	49	16.17	16.32	16.10	
20	16QAM	1	99	16.14	16.27	16.15	18
20	16QAM	50	0	16.20	16.30	16.15	
20	16QAM	50	24	16.14	16.24	16.11	
20	16QAM	50	50	16.14	16.22	16.12	18
20	16QAM	100	0	16.24	16.32	16.19	
20	64QAM	1	0	16.27	16.36	16.22	
20	64QAM	1	49	16.16	16.31	16.11	18
20	64QAM	1	99	16.19	16.27	16.16	
20	64QAM	50	0	16.22	16.31	16.19	
20	64QAM	50	24	16.12	16.21	16.08	18
20	64QAM	50	50	16.17	16.22	16.07	
20	64QAM	100	0	16.24	16.34	16.18	
20	256QAM	1	0	16.23	16.36	16.22	18
20	256QAM	1	49	16.21	16.32	16.10	
20	256QAM	1	99	16.17	16.29	16.14	
20	256QAM	50	0	16.21	16.29	16.15	18
20	256QAM	50	24	16.10	16.22	16.11	
20	256QAM	50	50	16.13	16.24	16.10	
20	256QAM	100	0	16.21	16.34	16.19	18
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.18	16.25	16.16	18
Channel				18650	18900	19150	18
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.15	16.27	16.13	18
Channel				18625	18900	19175	18
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.15	16.34	16.07	18
Channel				18615	18900	19185	18
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.18	16.31	16.09	18
Channel				18607	18900	19193	18
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.13	16.28	16.13	18



<LTE Band 2_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	18.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.03	17.19	17.11	18.5
20	QPSK	1	49	16.89	17.01	16.98	
20	QPSK	1	99	16.93	17.08	17.00	
20	QPSK	50	0	17.00	17.11	17.05	18.5
20	QPSK	50	24	16.80	16.91	16.95	
20	QPSK	50	50	16.86	16.97	16.93	
20	QPSK	100	0	17.01	17.12	17.08	18.5
20	16QAM	1	0	16.84	17.09	16.98	
20	16QAM	1	49	16.69	16.89	16.84	
20	16QAM	1	99	16.82	16.88	16.81	18.5
20	16QAM	50	0	16.87	16.97	16.87	
20	16QAM	50	24	16.70	16.76	16.77	
20	16QAM	50	50	16.74	16.77	16.75	18.5
20	16QAM	100	0	16.88	16.97	16.94	
20	64QAM	1	0	16.84	17.00	16.98	
20	64QAM	1	49	16.78	16.81	16.82	18.5
20	64QAM	1	99	16.77	16.92	16.80	
20	64QAM	50	0	16.84	17.01	16.88	
20	64QAM	50	24	16.65	16.74	16.80	18.5
20	64QAM	50	50	16.72	16.78	16.81	
20	64QAM	100	0	16.85	16.98	16.92	
20	256QAM	1	0	16.93	17.01	16.96	18.5
20	256QAM	1	49	16.74	16.87	16.81	
20	256QAM	1	99	16.83	16.94	16.86	
20	256QAM	50	0	16.89	17.00	16.95	18.5
20	256QAM	50	24	16.61	16.71	16.81	
20	256QAM	50	50	16.67	16.77	16.82	
20	256QAM	100	0	16.85	16.93	16.90	18.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.86	17.05	16.94	18.5
Channel				18650	18900	19150	18.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.91	17.04	16.98	18.5
Channel				18625	18900	19175	18.5
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.93	17.09	16.95	18.5
Channel				18615	18900	19185	18.5
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.85	17.03	16.98	18.5
Channel				18607	18900	19193	18.5
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	16.83	17.05	16.99	18.5





<LTE Band 2_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	25
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.46	23.60	23.56	25
20	QPSK	1	49	23.37	23.48	23.50	
20	QPSK	1	99	23.39	23.47	23.55	
20	QPSK	50	0	22.26	22.45	22.41	24
20	QPSK	50	24	22.15	22.31	22.19	
20	QPSK	50	50	22.25	22.43	22.34	
20	QPSK	100	0	22.22	22.45	22.39	24
20	16QAM	1	0	22.41	22.55	22.42	
20	16QAM	1	49	22.38	22.59	22.53	
20	16QAM	1	99	22.39	22.60	22.55	23
20	16QAM	50	0	21.44	21.60	21.55	
20	16QAM	50	24	21.37	21.54	21.52	
20	16QAM	50	50	21.36	21.52	21.55	23
20	16QAM	100	0	21.42	21.51	21.56	
20	64QAM	1	0	21.42	21.59	21.55	
20	64QAM	1	49	21.43	21.51	21.50	23
20	64QAM	1	99	21.38	21.52	21.46	
20	64QAM	50	0	20.36	20.54	20.56	
20	64QAM	50	24	20.40	20.54	20.47	22
20	64QAM	50	50	20.36	20.52	20.47	
20	64QAM	100	0	20.46	20.55	20.48	
20	256QAM	1	0	18.36	18.50	18.45	20
20	256QAM	1	49	18.45	18.58	18.55	
20	256QAM	1	99	18.36	18.56	18.51	
20	256QAM	50	0	18.45	18.59	18.47	20
20	256QAM	50	24	18.43	18.50	18.46	
20	256QAM	50	50	18.38	18.54	18.56	
20	256QAM	100	0	18.38	18.57	18.47	20
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.43	23.55	23.51	25
Channel				18650	18900	19150	25
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.41	23.58	23.51	25
Channel				18625	18900	19175	25
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.41	23.58	23.54	25
Channel				18615	18900	19185	25
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.44	23.58	23.52	25
Channel				18607	18900	19193	25
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.44	23.58	23.54	25



<LTE Band 4_Ant 2_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	18.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.29	18.44	18.32	
20	QPSK	1	49	18.20	18.43	18.22	18.7
20	QPSK	1	99	18.25	18.42	18.25	
20	QPSK	50	0	18.24	18.40	18.30	
20	QPSK	50	24	18.22	18.35	18.28	18.7
20	QPSK	50	50	18.21	18.32	18.30	
20	QPSK	100	0	18.33	18.41	18.39	
20	16QAM	1	0	18.20	18.36	18.25	18.7
20	16QAM	1	49	18.15	18.36	18.16	
20	16QAM	1	99	18.16	18.37	18.18	
20	16QAM	50	0	18.17	18.35	18.24	18.7
20	16QAM	50	24	18.17	18.30	18.20	
20	16QAM	50	50	18.14	18.24	18.22	
20	16QAM	100	0	18.28	18.36	18.30	18.7
20	64QAM	1	0	18.22	18.38	18.25	
20	64QAM	1	49	18.10	18.34	18.14	
20	64QAM	1	99	18.16	18.34	18.16	18.7
20	64QAM	50	0	18.16	18.31	18.22	
20	64QAM	50	24	18.14	18.25	18.22	
20	64QAM	50	50	18.12	18.26	18.20	18.7
20	64QAM	100	0	18.27	18.32	18.34	
20	256QAM	1	0	18.22	18.37	18.22	
20	256QAM	1	49	18.13	18.37	18.12	18.7
20	256QAM	1	99	18.16	18.36	18.17	
20	256QAM	50	0	18.17	18.33	18.23	
20	256QAM	50	24	18.17	18.26	18.20	18.7
20	256QAM	50	50	18.13	18.27	18.21	
20	256QAM	100	0	18.26	18.36	18.33	
Channel				20025	20175	20325	18.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.18	18.27	18.15	18.7
Channel				20000	20175	20350	18.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.14	18.30	18.15	18.7
Channel				19975	20175	20375	18.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.14	18.26	18.12	18.7
Channel				19965	20175	20385	18.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.17	18.34	18.17	18.7
Channel				19957	20175	20393	18.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.10	18.24	18.19	18.7



<LTE Band 4_Ant 2_DSI 1_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	17.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	16.19	16.23	16.14	
20	QPSK	1	49	16.12	16.16	16.06	17.5
20	QPSK	1	99	16.11	16.14	16.06	
20	QPSK	50	0	16.18	16.22	16.13	
20	QPSK	50	24	16.12	16.18	16.08	17.5
20	QPSK	50	50	16.10	16.17	16.06	
20	QPSK	100	0	16.12	16.18	16.04	
20	16QAM	1	0	16.12	16.13	16.06	17.5
20	16QAM	1	49	16.07	16.06	15.99	
20	16QAM	1	99	16.01	16.06	15.96	
20	16QAM	50	0	16.08	16.17	16.03	17.5
20	16QAM	50	24	16.02	16.09	16.00	
20	16QAM	50	50	16.03	16.07	15.98	
20	16QAM	100	0	16.02	16.10	15.98	17.5
20	64QAM	1	0	16.10	16.18	16.08	
20	64QAM	1	49	16.06	16.08	16.01	
20	64QAM	1	99	16.03	16.08	15.97	17.5
20	64QAM	50	0	16.08	16.17	16.07	
20	64QAM	50	24	16.07	16.13	16.02	
20	64QAM	50	50	16.02	16.10	16.00	17.5
20	64QAM	100	0	16.05	16.13	15.96	
20	256QAM	1	0	16.12	16.16	16.06	
20	256QAM	1	49	16.02	16.11	15.97	17.5
20	256QAM	1	99	16.04	16.04	15.97	
20	256QAM	50	0	16.13	16.13	16.08	
20	256QAM	50	24	16.06	16.08	15.98	17.5
20	256QAM	50	50	16.02	16.11	15.98	
20	256QAM	100	0	16.06	16.08	15.96	
Channel				20025	20175	20325	17.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	16.05	16.11	15.95	17.5
Channel				20000	20175	20350	17.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.01	16.02	15.94	17.5
Channel				19975	20175	20375	17.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.04	16.13	15.94	17.5
Channel				19965	20175	20385	17.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.00	16.10	15.96	17.5
Channel				19957	20175	20393	17.5
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.04	16.11	15.96	17.5



<LTE Band 4_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	17.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	16.63	16.72	16.67	
20	QPSK	1	49	16.57	16.65	16.61	17.7
20	QPSK	1	99	16.58	16.66	16.57	
20	QPSK	50	0	16.62	16.69	16.65	
20	QPSK	50	24	16.57	16.66	16.61	17.7
20	QPSK	50	50	16.57	16.63	16.60	
20	QPSK	100	0	16.59	16.68	16.64	
20	16QAM	1	0	16.55	16.65	16.59	17.7
20	16QAM	1	49	16.48	16.60	16.54	
20	16QAM	1	99	16.48	16.56	16.47	
20	16QAM	50	0	16.55	16.60	16.55	17.7
20	16QAM	50	24	16.48	16.57	16.53	
20	16QAM	50	50	16.52	16.55	16.54	
20	16QAM	100	0	16.51	16.58	16.59	17.7
20	64QAM	1	0	16.57	16.65	16.60	
20	64QAM	1	49	16.49	16.56	16.55	
20	64QAM	1	99	16.50	16.56	16.49	17.7
20	64QAM	50	0	16.52	16.62	16.60	
20	64QAM	50	24	16.47	16.61	16.54	
20	64QAM	50	50	16.48	16.58	16.55	17.7
20	64QAM	100	0	16.52	16.60	16.58	
20	256QAM	1	0	16.55	16.65	16.58	
20	256QAM	1	49	16.52	16.60	16.51	17.7
20	256QAM	1	99	16.49	16.61	16.49	
20	256QAM	50	0	16.54	16.60	16.56	
20	256QAM	50	24	16.47	16.57	16.55	17.7
20	256QAM	50	50	16.51	16.55	16.51	
20	256QAM	100	0	16.54	16.60	16.55	
Channel				20025	20175	20325	17.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	16.50	16.58	16.50	17.7
Channel				20000	20175	20350	17.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.52	16.60	16.56	17.7
Channel				19975	20175	20375	17.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.48	16.58	16.49	17.7
Channel				19965	20175	20385	17.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.49	16.58	16.47	17.7
Channel				19957	20175	20393	17.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.44	16.60	16.53	17.7



<LTE Band 4_Ant 3_DSI 1_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	17.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	17.03	17.07	17.05	
20	QPSK	1	49	16.97	17.00	16.99	17.7
20	QPSK	1	99	16.96	17.02	17.00	
20	QPSK	50	0	17.02	17.05	17.02	
20	QPSK	50	24	16.94	16.99	16.98	17.7
20	QPSK	50	50	16.96	16.97	16.99	
20	QPSK	100	0	17.01	17.04	17.00	
20	16QAM	1	0	16.97	16.99	16.99	17.7
20	16QAM	1	49	16.88	16.94	16.93	
20	16QAM	1	99	16.86	16.92	16.91	
20	16QAM	50	0	16.93	16.98	16.95	17.7
20	16QAM	50	24	16.84	16.90	16.92	
20	16QAM	50	50	16.91	16.91	16.92	
20	16QAM	100	0	16.92	16.95	16.92	17.7
20	64QAM	1	0	16.93	17.01	17.00	
20	64QAM	1	49	16.89	16.91	16.91	
20	64QAM	1	99	16.88	16.95	16.91	17.7
20	64QAM	50	0	16.92	16.95	16.92	
20	64QAM	50	24	16.89	16.90	16.93	
20	64QAM	50	50	16.89	16.87	16.91	17.7
20	64QAM	100	0	16.96	16.98	16.95	
20	256QAM	1	0	16.95	16.97	16.98	
20	256QAM	1	49	16.88	16.95	16.89	17.7
20	256QAM	1	99	16.90	16.93	16.94	
20	256QAM	50	0	16.93	16.99	16.97	
20	256QAM	50	24	16.87	16.93	16.92	17.7
20	256QAM	50	50	16.89	16.87	16.89	
20	256QAM	100	0	16.96	16.94	16.92	
Channel				20025	20175	20325	17.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	16.88	16.95	16.95	17.7
Channel				20000	20175	20350	17.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	16.85	16.90	16.86	17.7
Channel				19975	20175	20375	17.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	16.93	16.92	16.86	17.7
Channel				19965	20175	20385	17.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	16.86	16.95	16.89	17.7
Channel				19957	20175	20393	17.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.86	16.87	16.86	17.7



<LTE Band 4_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	23
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.48	22.55	22.41	
20	QPSK	1	49	22.42	22.39	22.31	22.5
20	QPSK	1	99	22.46	22.51	22.35	
20	QPSK	50	0	21.84	21.94	21.74	
20	QPSK	50	24	21.66	21.74	21.59	22.5
20	QPSK	50	50	21.84	21.92	21.73	
20	QPSK	100	0	21.64	21.79	21.64	
20	16QAM	1	0	21.86	21.95	21.76	22.5
20	16QAM	1	49	21.42	21.55	21.32	
20	16QAM	1	99	21.38	21.45	21.40	
20	16QAM	50	0	20.40	20.54	20.32	21.5
20	16QAM	50	24	20.44	20.55	20.31	
20	16QAM	50	50	20.46	20.51	20.37	
20	16QAM	100	0	20.44	20.48	20.36	21.5
20	64QAM	1	0	20.49	20.63	20.41	
20	64QAM	1	49	20.44	20.50	20.31	
20	64QAM	1	99	20.38	20.52	20.35	20.5
20	64QAM	50	0	19.43	19.49	19.41	
20	64QAM	50	24	19.48	19.54	19.38	
20	64QAM	50	50	19.38	19.52	19.40	18.5
20	64QAM	100	0	19.47	19.48	19.37	
20	256QAM	1	0	17.63	17.78	17.64	
20	256QAM	1	49	17.48	17.48	17.31	18.5
20	256QAM	1	99	17.44	17.52	17.34	
20	256QAM	50	0	17.38	17.55	17.41	
20	256QAM	50	24	17.38	17.53	17.37	18.5
20	256QAM	50	50	17.43	17.46	17.31	
20	256QAM	100	0	17.44	17.51	17.38	
Channel				20025	20175	20325	23
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.44	22.51	22.39	23
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	23
10	QPSK	1	0	22.38	22.53	22.39	
Channel				19975	20175	20375	23
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.42	22.45	22.37	23
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	23
3	QPSK	1	0	22.43	22.45	22.37	
Channel				19957	20175	20393	23
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.44	22.53	22.37	23



<LTE Band 4_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.38	24.60	24.44	
20	QPSK	1	49	24.31	24.46	24.44	24.7
20	QPSK	1	99	24.28	24.50	24.42	
20	QPSK	50	0	23.36	23.59	23.39	
20	QPSK	50	24	23.10	23.40	23.22	24.7
20	QPSK	50	50	23.13	23.41	23.18	
20	QPSK	100	0	23.20	23.49	23.29	
20	16QAM	1	0	23.47	23.69	23.48	24.7
20	16QAM	1	49	23.32	23.58	23.44	
20	16QAM	1	99	23.38	23.50	23.40	
20	16QAM	50	0	22.35	22.56	22.35	23.7
20	16QAM	50	24	22.32	22.58	22.36	
20	16QAM	50	50	22.36	22.50	22.36	
20	16QAM	100	0	22.28	22.53	22.38	23.7
20	64QAM	1	0	22.41	22.67	22.51	
20	64QAM	1	49	22.36	22.58	22.40	
20	64QAM	1	99	22.37	22.57	22.34	22.7
20	64QAM	50	0	21.30	21.53	21.42	
20	64QAM	50	24	21.32	21.57	21.37	
20	64QAM	50	50	21.34	21.56	21.37	22.7
20	64QAM	100	0	21.30	21.50	21.34	
20	256QAM	1	0	19.37	19.62	19.41	
20	256QAM	1	49	19.34	19.59	19.42	20.7
20	256QAM	1	99	19.31	19.52	19.43	
20	256QAM	50	0	19.37	19.53	19.39	
20	256QAM	50	24	19.32	19.51	19.43	20.7
20	256QAM	50	50	19.34	19.50	19.36	
20	256QAM	100	0	19.31	19.52	19.44	
Channel				20025	20175	20325	25.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.35	24.53	24.40	
Channel				20000	20175	20350	25.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.34	24.56	24.41	
Channel				19975	20175	20375	25.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.33	24.56	24.42	
Channel				19965	20175	20385	25.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.29	24.52	24.42	
Channel				19957	20175	20393	25.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.32	24.53	24.42	



<LTE Band 4_Ant 5_DSI 1_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	25.13	25.19	25.17	
20	QPSK	1	49	25.12	25.05	25.08	24.5
20	QPSK	1	99	25.13	25.10	25.17	
20	QPSK	50	0	24.18	24.26	24.20	
20	QPSK	50	24	24.00	24.16	24.12	24.5
20	QPSK	50	50	24.02	24.17	24.05	
20	QPSK	100	0	24.10	24.21	24.18	
20	16QAM	1	0	24.07	24.14	24.07	24.5
20	16QAM	1	49	24.05	24.09	24.13	
20	16QAM	1	99	24.08	24.10	24.11	
20	16QAM	50	0	23.11	23.11	23.07	23.5
20	16QAM	50	24	23.09	23.09	23.11	
20	16QAM	50	50	23.10	23.12	23.16	
20	16QAM	100	0	23.04	23.15	23.10	23.5
20	64QAM	1	0	23.06	23.22	23.15	
20	64QAM	1	49	23.03	23.10	23.12	
20	64QAM	1	99	23.09	23.17	23.14	22.5
20	64QAM	50	0	22.10	22.10	22.14	
20	64QAM	50	24	22.12	22.19	22.13	
20	64QAM	50	50	22.06	22.12	22.09	20.5
20	64QAM	100	0	22.05	22.11	22.10	
20	256QAM	1	0	20.12	20.21	20.18	
20	256QAM	1	49	20.08	20.13	20.17	20.5
20	256QAM	1	99	20.10	20.19	20.17	
20	256QAM	50	0	20.08	20.11	20.08	
20	256QAM	50	24	20.07	20.10	20.10	20.5
20	256QAM	50	50	20.13	20.16	20.11	
20	256QAM	100	0	20.04	20.14	20.15	
Channel				20025	20175	20325	25.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	25.08	25.12	25.15	
Channel				20000	20175	20350	25.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	25.05	25.16	25.12	
Channel				19975	20175	20375	25.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	25.05	25.09	25.11	
Channel				19965	20175	20385	25.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	25.06	25.10	25.15	
Channel				19957	20175	20393	25.5
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	25.05	25.15	25.09	





<LTE Band 5_Ant 0_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.01	25.05	24.93	25.7
10	QPSK	1	25	24.92	24.97	24.86	
10	QPSK	1	49	24.89	24.94	24.82	
10	QPSK	25	0	24.22	24.24	24.18	24.7
10	QPSK	25	12	24.17	24.22	24.12	
10	QPSK	25	25	24.16	24.19	24.11	
10	QPSK	50	0	24.14	24.20	24.18	
10	16QAM	1	0	24.26	24.35	24.20	24.7
10	16QAM	1	25	24.18	24.25	24.10	
10	16QAM	1	49	24.14	24.18	24.10	
10	16QAM	25	0	23.02	23.12	23.05	23.7
10	16QAM	25	12	23.06	23.05	22.94	
10	16QAM	25	25	23.02	23.05	22.92	
10	16QAM	50	0	22.99	23.07	23.07	
10	64QAM	1	0	23.10	23.09	23.01	23.7
10	64QAM	1	25	22.93	23.00	22.89	
10	64QAM	1	49	22.97	23.03	22.84	
10	64QAM	25	0	22.03	22.08	22.05	22.7
10	64QAM	25	12	22.06	22.10	21.99	
10	64QAM	25	25	21.98	22.02	22.00	
10	64QAM	50	0	22.04	22.01	22.01	
10	256QAM	1	0	20.08	20.23	20.09	20.7
10	256QAM	1	25	19.99	20.09	19.96	
10	256QAM	1	49	20.01	20.00	19.99	
10	256QAM	25	0	20.04	20.04	20.03	20.7
10	256QAM	25	12	20.04	20.04	19.94	
10	256QAM	25	25	19.98	20.04	19.94	
10	256QAM	50	0	20.04	20.06	20.04	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.84	24.95	24.74	25.7
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.84	24.94	24.74	25.7
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.85	24.88	24.83	25.7



<LTE Band 5_Ant 0_DSI 1_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	25.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.21	25.30	25.25	
10	QPSK	1	25	25.18	25.23	25.20	24.5
10	QPSK	1	49	25.11	25.15	25.13	
10	QPSK	25	0	24.20	24.25	24.23	
10	QPSK	25	12	24.08	24.12	24.10	24.5
10	QPSK	25	25	24.12	24.22	24.18	
10	QPSK	50	0	24.19	24.22	24.21	
10	16QAM	1	0	24.12	24.20	24.09	24.5
10	16QAM	1	25	24.18	24.21	24.16	
10	16QAM	1	49	24.12	24.16	24.12	
10	16QAM	25	0	23.20	23.21	23.11	23.5
10	16QAM	25	12	23.17	23.19	23.17	
10	16QAM	25	25	23.13	23.24	23.15	
10	16QAM	50	0	23.19	23.19	23.15	23.5
10	64QAM	1	0	23.18	23.17	23.10	
10	64QAM	1	25	23.12	23.20	23.16	
10	64QAM	1	49	23.20	23.22	23.15	22.5
10	64QAM	25	0	22.15	22.17	22.14	
10	64QAM	25	12	22.11	22.23	22.15	
10	64QAM	25	25	22.17	22.20	22.08	20.5
10	64QAM	50	0	22.14	22.20	22.08	
10	256QAM	1	0	20.18	20.19	20.13	
10	256QAM	1	25	20.12	20.15	20.17	20.5
10	256QAM	1	49	20.21	20.19	20.12	
10	256QAM	25	0	20.19	20.15	20.16	
10	256QAM	25	12	20.16	20.25	20.15	20.5
10	256QAM	25	25	20.13	20.18	20.17	
10	256QAM	50	0	20.13	20.23	20.09	
Channel				20425	20525	20625	25.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	25.09	25.16	25.07	25.5
Channel				20415	20525	20635	25.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	25.08	25.16	25.07	25.5
Channel				20407	20525	20643	25.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.10	25.16	25.10	25.5



<LTE Band 5_Ant 1_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	20.2
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	18.83	19.03	18.94	20.2
10	QPSK	1	25	18.69	18.84	18.80	
10	QPSK	1	49	18.70	18.92	18.74	
10	QPSK	25	0	18.80	18.93	18.90	20.2
10	QPSK	25	12	18.69	18.73	18.77	
10	QPSK	25	25	18.64	18.76	18.79	
10	QPSK	50	0	18.82	18.94	18.89	20.2
10	16QAM	1	0	18.75	18.93	18.85	
10	16QAM	1	25	18.63	18.75	18.72	
10	16QAM	1	49	18.61	18.87	18.69	20.2
10	16QAM	25	0	18.74	18.87	18.84	
10	16QAM	25	12	18.59	18.64	18.67	
10	16QAM	25	25	18.54	18.66	18.72	20.2
10	16QAM	50	0	18.72	18.87	18.79	
10	64QAM	1	0	18.78	18.97	18.86	
10	64QAM	1	25	18.59	18.75	18.75	20.2
10	64QAM	1	49	18.61	18.85	18.69	
10	64QAM	25	0	18.74	18.85	18.80	
10	64QAM	25	12	18.62	18.68	18.70	20.2
10	64QAM	25	25	18.54	18.66	18.70	
10	64QAM	50	0	18.77	18.87	18.80	
10	256QAM	1	0	18.77	18.98	18.87	20.2
10	256QAM	1	25	18.62	18.79	18.73	
10	256QAM	1	49	18.63	18.86	18.65	
10	256QAM	25	0	18.71	18.84	18.82	20.2
10	256QAM	25	12	18.62	18.67	18.69	
10	256QAM	25	25	18.56	18.68	18.73	
10	256QAM	50	0	18.74	18.88	18.82	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	20.2
5	QPSK	1	0	18.68	18.89	18.78	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	20.2
3	QPSK	1	0	18.69	18.85	18.82	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	20.2
1.4	QPSK	1	0	18.67	18.89	18.81	



<b>&lt;LTE Band 5_Ant 1_DSI 1_Other PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	20
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	18.99	19.01	18.94	
10	QPSK	1	25	18.86	18.90	18.82	20
10	QPSK	1	49	18.79	18.83	18.73	
10	QPSK	25	0	18.94	18.98	18.90	
10	QPSK	25	12	18.94	18.97	18.87	20
10	QPSK	25	25	18.89	18.93	18.83	
10	QPSK	50	0	18.89	18.92	18.83	
10	16QAM	1	0	18.89	18.91	18.84	20
10	16QAM	1	25	18.80	18.80	18.77	
10	16QAM	1	49	18.70	18.73	18.66	
10	16QAM	25	0	18.86	18.91	18.84	20
10	16QAM	25	12	18.86	18.87	18.78	
10	16QAM	25	25	18.84	18.86	18.73	
10	16QAM	50	0	18.82	18.86	18.78	20
10	64QAM	1	0	18.85	18.98	18.88	
10	64QAM	1	25	18.81	18.85	18.75	
10	64QAM	1	49	18.71	18.77	18.65	20
10	64QAM	25	0	18.87	18.90	18.80	
10	64QAM	25	12	18.86	18.92	18.80	
10	64QAM	25	25	18.82	18.86	18.76	20
10	64QAM	50	0	18.80	18.86	18.74	
10	256QAM	1	0	18.86	18.97	18.88	
10	256QAM	1	25	18.77	18.81	18.75	20
10	256QAM	1	49	18.71	18.73	18.65	
10	256QAM	25	0	18.84	18.89	18.84	
10	256QAM	25	12	18.85	18.89	18.80	20
10	256QAM	25	25	18.80	18.85	18.77	
10	256QAM	50	0	18.83	18.82	18.76	
Channel				20425	20525	20625	20
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	18.88	18.91	18.76	20
Channel				20415	20525	20635	20
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	18.85	18.90	18.77	20
Channel				20407	20525	20643	20
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	18.88	18.87	18.80	20



<LTE Band 7_Ant 2_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	16.7
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.43	16.51	16.48	
20	QPSK	1	49	16.34	16.42	16.43	16.7
20	QPSK	1	99	16.35	16.46	16.39	
20	QPSK	50	0	16.42	16.50	16.45	
20	QPSK	50	24	16.35	16.44	16.43	16.7
20	QPSK	50	50	16.34	16.41	16.39	
20	QPSK	100	0	16.40	16.44	16.42	
20	16QAM	1	0	16.33	16.46	16.39	16.7
20	16QAM	1	49	16.27	16.34	16.38	
20	16QAM	1	99	16.30	16.39	16.30	
20	16QAM	50	0	16.35	16.42	16.36	16.7
20	16QAM	50	24	16.28	16.38	16.33	
20	16QAM	50	50	16.25	16.32	16.31	
20	16QAM	100	0	16.35	16.36	16.32	16.7
20	64QAM	1	0	16.37	16.45	16.43	
20	64QAM	1	49	16.24	16.34	16.36	
20	64QAM	1	99	16.29	16.37	16.30	16.7
20	64QAM	50	0	16.32	16.42	16.39	
20	64QAM	50	24	16.30	16.37	16.34	
20	64QAM	50	50	16.25	16.36	16.32	16.7
20	64QAM	100	0	16.33	16.34	16.35	
20	256QAM	1	0	16.37	16.41	16.41	
20	256QAM	1	49	16.27	16.34	16.38	16.7
20	256QAM	1	99	16.28	16.40	16.33	
20	256QAM	50	0	16.34	16.44	16.36	
20	256QAM	50	24	16.26	16.38	16.38	16.7
20	256QAM	50	50	16.27	16.33	16.33	
20	256QAM	100	0	16.31	16.39	16.37	
Channel				20825	21100	21375	16.7
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.23	16.36	16.29	16.7
Channel				20800	21100	21400	16.7
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.25	16.37	16.37	16.7
Channel				20775	21100	21425	16.7
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.33	16.41	16.34	16.7



<LTE Band 7_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	17.2
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.34	16.44	16.45	17.2
20	QPSK	1	49	16.25	16.37	16.37	
20	QPSK	1	99	16.27	16.34	16.38	
20	QPSK	50	0	16.32	16.43	16.44	17.2
20	QPSK	50	24	16.28	16.34	16.38	
20	QPSK	50	50	16.25	16.36	16.36	
20	QPSK	100	0	16.29	16.42	16.40	
20	16QAM	1	0	16.26	16.38	16.40	17.2
20	16QAM	1	49	16.20	16.28	16.30	
20	16QAM	1	99	16.17	16.28	16.30	
20	16QAM	50	0	16.26	16.38	16.34	17.2
20	16QAM	50	24	16.18	16.24	16.30	
20	16QAM	50	50	16.20	16.27	16.31	
20	16QAM	100	0	16.23	16.32	16.33	
20	64QAM	1	0	16.25	16.35	16.35	17.2
20	64QAM	1	49	16.16	16.27	16.29	
20	64QAM	1	99	16.18	16.28	16.28	
20	64QAM	50	0	16.27	16.34	16.37	17.2
20	64QAM	50	24	16.23	16.27	16.31	
20	64QAM	50	50	16.15	16.31	16.29	
20	64QAM	100	0	16.20	16.32	16.34	
20	256QAM	1	0	16.26	16.35	16.38	17.2
20	256QAM	1	49	16.19	16.28	16.28	
20	256QAM	1	99	16.19	16.29	16.33	
20	256QAM	50	0	16.23	16.34	16.37	17.2
20	256QAM	50	24	16.20	16.25	16.32	
20	256QAM	50	50	16.18	16.27	16.31	
20	256QAM	100	0	16.24	16.37	16.35	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	17.2
15	QPSK	1	0	16.17	16.26	16.34	17.2
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	17.2
10	QPSK	1	0	16.22	16.26	16.32	17.2
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	17.2
5	QPSK	1	0	16.17	16.29	16.30	17.2



<LTE Band 7_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	17.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.21	16.30	16.16	17.5
20	QPSK	1	49	16.01	16.17	15.97	
20	QPSK	1	99	16.05	16.16	16.05	
20	QPSK	50	0	16.17	16.21	16.15	17.5
20	QPSK	50	24	16.06	16.11	15.96	
20	QPSK	50	50	16.06	16.18	15.97	
20	QPSK	100	0	16.03	16.17	16.01	
20	16QAM	1	0	16.02	16.10	15.96	17.5
20	16QAM	1	49	15.86	15.99	15.82	
20	16QAM	1	99	15.87	15.99	15.94	
20	16QAM	50	0	16.00	16.07	16.02	17.5
20	16QAM	50	24	15.95	15.95	15.78	
20	16QAM	50	50	15.93	16.07	15.87	
20	16QAM	100	0	15.88	16.00	15.82	
20	64QAM	1	0	16.08	16.16	16.00	17.5
20	64QAM	1	49	15.81	16.05	15.83	
20	64QAM	1	99	15.93	16.00	15.91	
20	64QAM	50	0	16.06	16.02	16.02	17.5
20	64QAM	50	24	15.88	15.97	15.85	
20	64QAM	50	50	15.87	16.07	15.85	
20	64QAM	100	0	15.83	16.02	15.89	
20	256QAM	1	0	16.07	16.16	16.03	17.5
20	256QAM	1	49	15.90	15.97	15.80	
20	256QAM	1	99	15.87	16.04	15.85	
20	256QAM	50	0	16.00	16.10	15.97	17.5
20	256QAM	50	24	15.94	16.00	15.80	
20	256QAM	50	50	15.95	16.08	15.84	
20	256QAM	100	0	15.84	16.07	15.85	
Channel				20825	21100	21375	17.5
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.04	16.20	16.02	17.5
Channel				20800	21100	21400	17.5
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.05	16.16	15.99	17.5
Channel				20775	21100	21425	17.5
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.04	16.20	16.01	17.5



<LTE Band 7_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	25.7
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	25.13	25.14	25.08	
20	QPSK	1	49	25.05	25.01	25.05	24.7
20	QPSK	1	99	25.08	25.00	25.00	
20	QPSK	50	0	24.17	24.27	24.14	
20	QPSK	50	24	24.20	24.25	24.09	24.7
20	QPSK	50	50	24.15	24.24	24.13	
20	QPSK	100	0	24.01	24.09	23.98	
20	16QAM	1	0	24.40	24.45	24.39	24.7
20	16QAM	1	49	24.08	24.05	24.03	
20	16QAM	1	99	24.03	24.06	24.07	
20	16QAM	50	0	23.07	23.13	23.04	23.7
20	16QAM	50	24	23.08	23.09	23.02	
20	16QAM	50	50	23.11	23.10	23.08	
20	16QAM	100	0	23.03	23.06	23.02	23.7
20	64QAM	1	0	23.33	23.40	23.24	
20	64QAM	1	49	23.03	23.07	23.08	
20	64QAM	1	99	23.13	23.09	22.98	22.7
20	64QAM	50	0	22.04	22.14	22.03	
20	64QAM	50	24	22.08	22.06	21.99	
20	64QAM	50	50	22.06	22.12	22.05	20.7
20	64QAM	100	0	22.12	22.08	22.04	
20	256QAM	1	0	20.36	20.37	20.27	
20	256QAM	1	49	20.09	20.08	20.05	20.7
20	256QAM	1	99	20.03	20.14	20.06	
20	256QAM	50	0	20.03	20.11	20.04	
20	256QAM	50	24	20.07	20.06	20.01	20.7
20	256QAM	50	50	20.11	20.06	20.04	
20	256QAM	100	0	20.04	20.09	20.04	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	25.06	25.07	25.06	25.7
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	25.10	25.09	25.00	25.7
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	25.08	25.12	25.01	25.7





<LTE Band 12_Ant 0_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.84	23.97	23.88	25
10	QPSK	1	25	23.82	23.91	23.85	
10	QPSK	1	49	23.79	23.86	23.81	
10	QPSK	25	0	23.09	23.12	23.08	24
10	QPSK	25	12	23.01	23.11	23.00	
10	QPSK	25	25	23.00	23.07	23.05	
10	QPSK	50	0	23.10	23.12	23.09	
10	16QAM	1	0	22.78	22.85	22.79	24
10	16QAM	1	25	22.75	22.87	22.80	
10	16QAM	1	49	22.83	22.79	22.84	
10	16QAM	25	0	21.79	21.83	21.75	23
10	16QAM	25	12	21.83	21.79	21.76	
10	16QAM	25	25	21.77	21.87	21.77	
10	16QAM	50	0	21.81	21.81	21.77	
10	64QAM	1	0	21.80	21.83	21.85	23
10	64QAM	1	25	21.76	21.87	21.75	
10	64QAM	1	49	21.74	21.85	21.78	
10	64QAM	25	0	20.77	20.81	20.77	22
10	64QAM	25	12	20.76	20.81	20.84	
10	64QAM	25	25	20.83	20.80	20.76	
10	64QAM	50	0	20.80	20.81	20.84	
10	256QAM	1	0	18.77	18.82	18.78	20
10	256QAM	1	25	18.79	18.85	18.80	
10	256QAM	1	49	18.79	18.85	18.79	
10	256QAM	25	0	18.84	18.89	18.79	20
10	256QAM	25	12	18.81	18.81	18.80	
10	256QAM	25	25	18.81	18.80	18.75	
10	256QAM	50	0	18.83	18.83	18.81	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.66	23.77	23.74	25
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.73	23.86	23.70	25
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.74	23.85	23.75	25



<LTE Band 12_Ant 1_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.80	21.00	20.93	
10	QPSK	1	25	20.60	20.82	20.83	22.5
10	QPSK	1	49	20.68	20.85	20.77	
10	QPSK	25	0	20.78	20.98	20.86	
10	QPSK	25	12	20.60	20.86	20.77	22.5
10	QPSK	25	25	20.62	20.81	20.79	
10	QPSK	50	0	20.79	20.95	20.83	
10	16QAM	1	0	20.74	20.92	20.86	22.5
10	16QAM	1	25	20.50	20.74	20.78	
10	16QAM	1	49	20.58	20.79	20.72	
10	16QAM	25	0	20.71	20.92	20.78	22.5
10	16QAM	25	12	20.52	20.77	20.68	
10	16QAM	25	25	20.55	20.71	20.72	
10	16QAM	50	0	20.69	20.89	20.76	22.5
10	64QAM	1	0	20.75	20.90	20.88	
10	64QAM	1	25	20.55	20.80	20.82	
10	64QAM	1	49	20.65	20.82	20.75	22
10	64QAM	25	0	20.28	20.43	20.34	
10	64QAM	25	12	20.10	20.35	20.23	
10	64QAM	25	25	20.08	20.27	20.26	20
10	64QAM	50	0	20.26	20.43	20.31	
10	256QAM	1	0	18.26	18.54	18.43	
10	256QAM	1	25	18.15	18.36	18.36	20
10	256QAM	1	49	18.16	18.40	18.29	
10	256QAM	25	0	18.31	18.45	18.43	
10	256QAM	25	12	18.13	18.42	18.30	20
10	256QAM	25	25	18.12	18.35	18.35	
10	256QAM	50	0	18.35	18.44	18.39	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.68	20.84	20.81	22.5
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.66	20.80	20.73	22.5
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.61	20.85	20.82	22.5



<LTE Band 13_Ant 0_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			25.7
Frequency (MHz)				782			
10	QPSK	1	0		24.96		25.7
10	QPSK	1	25		24.88		
10	QPSK	1	49		24.86		
10	QPSK	25	0		24.07		24.7
10	QPSK	25	12		24.06		
10	QPSK	25	25		24.05		
10	QPSK	50	0		24.06		24.7
10	16QAM	1	0		24.12		
10	16QAM	1	25		23.91		
10	16QAM	1	49		23.90		23.7
10	16QAM	25	0		22.90		
10	16QAM	25	12		22.85		
10	16QAM	25	25		22.84		23.7
10	16QAM	50	0		22.88		
10	64QAM	1	0		22.93		
10	64QAM	1	25		22.90		23.7
10	64QAM	1	49		22.88		
10	64QAM	25	0		21.90		
10	64QAM	25	12		21.83		22.7
10	64QAM	25	25		21.93		
10	64QAM	50	0		21.85		
10	256QAM	1	0		19.89		20.7
10	256QAM	1	25		19.85		
10	256QAM	1	49		19.90		
10	256QAM	25	0		19.87		20.7
10	256QAM	25	12		19.87		
10	256QAM	25	25		19.87		
10	256QAM	50	0		19.91		20.7
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up limit (dBm)
5	QPSK	1	0	24.90	24.95	24.86	25.7



<LTE Band 13_Ant 1_DSI 1_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				23230			22.7	
Frequency (MHz)				782				
10	QPSK	1	0		22.23		22.7	
10	QPSK	1	25		22.13			
10	QPSK	1	49		22.17			
10	QPSK	25	0		22.19		22.7	
10	QPSK	25	12		22.06			
10	QPSK	25	25		22.09			
10	QPSK	50	0		22.15		22.7	
10	16QAM	1	0		22.18			
10	16QAM	1	25		22.05			
10	16QAM	1	49		22.12		22.7	
10	16QAM	25	0		22.13			
10	16QAM	25	12		21.99			
10	16QAM	25	25		22.04		22.7	
10	16QAM	50	0		22.07			
10	64QAM	1	0		22.14			
10	64QAM	1	25		22.03		22.7	
10	64QAM	1	49		22.12			
10	64QAM	25	0		22.11			
10	64QAM	25	12		22.01		22.7	
10	64QAM	25	25		21.99			
10	64QAM	50	0		22.08			
10	256QAM	1	0		20.28		20.7	
10	256QAM	1	25		20.21			
10	256QAM	1	49		20.24			
10	256QAM	25	0		20.26		20.7	
10	256QAM	25	12		20.07			
10	256QAM	25	25		20.12			
10	256QAM	50	0		20.15		20.7	
Channel				23205	23230	23255		Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.09	22.12	22.06	22.7	



<LTE Band 17_Ant 0_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.91	23.99	23.97	25
10	QPSK	1	25	23.81	23.88	23.86	
10	QPSK	1	49	23.82	23.93	23.90	
10	QPSK	25	0	23.22	23.27	23.21	24
10	QPSK	25	12	23.10	23.26	23.20	
10	QPSK	25	25	23.11	23.21	23.15	
10	QPSK	50	0	23.22	23.26	23.21	24
10	16QAM	1	0	23.14	23.33	23.21	
10	16QAM	1	25	22.82	22.95	22.88	
10	16QAM	1	49	22.81	22.89	22.92	23
10	16QAM	25	0	21.91	21.91	21.95	
10	16QAM	25	12	21.84	21.88	21.97	
10	16QAM	25	25	21.88	21.95	21.88	23
10	16QAM	50	0	21.85	21.91	21.93	
10	64QAM	1	0	21.86	21.88	21.89	
10	64QAM	1	25	21.90	21.97	21.91	23
10	64QAM	1	49	21.82	21.88	21.91	
10	64QAM	25	0	20.82	20.88	20.88	
10	64QAM	25	12	20.91	20.89	20.95	22
10	64QAM	25	25	20.85	20.94	20.91	
10	64QAM	50	0	20.82	20.90	20.94	
10	256QAM	1	0	18.89	18.97	18.96	20
10	256QAM	1	25	18.82	18.91	18.88	
10	256QAM	1	49	18.85	18.88	18.92	
10	256QAM	25	0	18.85	18.90	18.91	20
10	256QAM	25	12	18.87	18.93	18.88	
10	256QAM	25	25	18.89	18.88	18.95	
10	256QAM	50	0	18.88	18.90	18.92	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.81	23.87	23.79	25



<LTE Band 17_Ant 1_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.21	20.34	20.26	
10	QPSK	1	25	20.11	20.19	20.13	22
10	QPSK	1	49	20.11	20.22	20.13	
10	QPSK	25	0	20.18	20.33	20.22	
10	QPSK	25	12	20.04	20.23	20.11	22
10	QPSK	25	25	20.04	20.21	20.09	
10	QPSK	50	0	20.20	20.32	20.24	
10	16QAM	1	0	20.11	20.28	20.19	22
10	16QAM	1	25	20.03	20.10	20.06	
10	16QAM	1	49	20.05	20.12	20.03	
10	16QAM	25	0	20.08	20.28	20.16	22
10	16QAM	25	12	20.04	20.18	20.06	
10	16QAM	25	25	20.04	20.11	20.00	
10	16QAM	50	0	20.11	20.24	20.17	22
10	64QAM	1	0	20.16	20.28	20.16	
10	64QAM	1	25	20.03	20.13	20.06	
10	64QAM	1	49	20.05	20.13	20.04	22
10	64QAM	25	0	20.12	20.26	20.12	
10	64QAM	25	12	20.07	20.14	20.01	
10	64QAM	25	25	20.08	20.14	20.00	22
10	64QAM	50	0	20.15	20.24	20.15	
10	256QAM	1	0	18.35	18.84	18.56	
10	256QAM	1	25	18.43	18.63	18.32	
10	256QAM	1	49	18.59	18.66	18.52	
10	256QAM	25	0	18.68	18.81	18.23	20
10	256QAM	25	12	18.52	18.32	18.45	
10	256QAM	25	25	18.26	18.36	18.26	
10	256QAM	50	0	18.34	18.59	18.37	20
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.10	20.25	20.18	22



<LTE Band 25_Ant 2_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	19.5
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	18.59	18.72	18.65	
20	QPSK	1	49	18.54	18.63	18.58	19.5
20	QPSK	1	99	18.51	18.65	18.58	
20	QPSK	50	0	18.55	18.70	18.62	
20	QPSK	50	24	18.48	18.61	18.52	19.5
20	QPSK	50	50	18.45	18.60	18.56	
20	QPSK	100	0	18.54	18.69	18.59	
20	16QAM	1	0	18.49	18.65	18.59	19.5
20	16QAM	1	49	18.47	18.57	18.48	
20	16QAM	1	99	18.44	18.59	18.51	
20	16QAM	50	0	18.47	18.64	18.57	19.5
20	16QAM	50	24	18.39	18.51	18.46	
20	16QAM	50	50	18.38	18.52	18.51	
20	16QAM	100	0	18.49	18.60	18.51	19.5
20	64QAM	1	0	18.49	18.63	18.60	
20	64QAM	1	49	18.45	18.54	18.49	
20	64QAM	1	99	18.44	18.60	18.53	19.5
20	64QAM	50	0	18.49	18.60	18.57	
20	64QAM	50	24	18.41	18.56	18.44	
20	64QAM	50	50	18.37	18.50	18.49	19.5
20	64QAM	100	0	18.45	18.63	18.51	
20	256QAM	1	0	18.49	18.65	18.59	
20	256QAM	1	49	18.47	18.55	18.49	19.5
20	256QAM	1	99	18.44	18.60	18.50	
20	256QAM	50	0	18.48	18.64	18.55	
20	256QAM	50	24	18.42	18.55	18.44	19.5
20	256QAM	50	50	18.35	18.55	18.50	
20	256QAM	100	0	18.45	18.59	18.50	
Channel				26115	26340	26615	19.5
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	18.43	18.54	18.47	19.5
Channel				26090	26340	26640	19.5
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	18.39	18.55	18.46	19.5
Channel				26065	26340	26665	19.5
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	18.48	18.53	18.48	19.5
Channel				26055	26340	26675	19.5
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	18.40	18.58	18.47	19.5
Channel				26047	26340	26683	19.5
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	18.43	18.58	18.47	19.5



<LTE Band 25_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	18
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	16.35	16.59	16.45	18
20	QPSK	1	49	16.26	16.53	16.37	
20	QPSK	1	99	16.30	16.51	16.39	
20	QPSK	50	0	16.32	16.43	16.42	18
20	QPSK	50	24	16.23	16.36	16.32	
20	QPSK	50	50	16.22	16.34	16.35	
20	QPSK	100	0	16.30	16.58	16.41	18
20	16QAM	1	0	16.29	16.54	16.37	
20	16QAM	1	49	16.18	16.44	16.32	
20	16QAM	1	99	16.24	16.43	16.31	18
20	16QAM	50	0	16.27	16.36	16.33	
20	16QAM	50	24	16.14	16.26	16.26	
20	16QAM	50	50	16.13	16.25	16.25	18
20	16QAM	100	0	16.23	16.48	16.31	
20	64QAM	1	0	16.28	16.51	16.39	
20	64QAM	1	49	16.16	16.48	16.29	18
20	64QAM	1	99	16.21	16.41	16.31	
20	64QAM	50	0	16.27	16.37	16.36	
20	64QAM	50	24	16.13	16.29	16.22	18
20	64QAM	50	50	16.12	16.28	16.25	
20	64QAM	100	0	16.21	16.48	16.32	
20	256QAM	1	0	16.25	16.50	16.38	18
20	256QAM	1	49	16.21	16.44	16.28	
20	256QAM	1	99	16.21	16.45	16.29	
20	256QAM	50	0	16.22	16.34	16.34	18
20	256QAM	50	24	16.13	16.28	16.27	
20	256QAM	50	50	16.14	16.29	16.27	
20	256QAM	100	0	16.25	16.51	16.33	18
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	16.21	16.46	16.31	18
Channel				26090	26340	26640	18
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	16.22	16.41	16.28	18
Channel				26065	26340	26665	18
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	16.19	16.42	16.30	18
Channel				26055	26340	26675	18
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	16.18	16.46	16.31	18
Channel				26047	26340	26683	18
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.25	16.45	16.28	18





<LTE Band 25_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	18.5
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	17.02	17.13	17.11	18.5
20	QPSK	1	49	16.95	17.06	17.01	
20	QPSK	1	99	16.95	17.05	17.06	
20	QPSK	50	0	17.01	17.11	17.08	18.5
20	QPSK	50	24	16.92	17.05	17.00	
20	QPSK	50	50	16.94	17.07	17.02	
20	QPSK	100	0	16.99	17.09	17.09	
20	16QAM	1	0	16.97	17.04	17.05	18.5
20	16QAM	1	49	16.89	16.98	16.96	
20	16QAM	1	99	16.87	16.97	17.01	
20	16QAM	50	0	16.91	17.06	16.99	18.5
20	16QAM	50	24	16.87	17.00	16.91	
20	16QAM	50	50	16.85	16.99	16.97	
20	16QAM	100	0	16.90	17.03	17.02	
20	64QAM	1	0	16.93	17.08	17.02	18.5
20	64QAM	1	49	16.85	17.01	16.94	
20	64QAM	1	99	16.88	16.97	17.00	
20	64QAM	50	0	16.93	17.05	16.99	18.5
20	64QAM	50	24	16.86	17.00	16.94	
20	64QAM	50	50	16.89	17.02	16.95	
20	64QAM	100	0	16.90	17.04	17.04	
20	256QAM	1	0	16.93	17.03	17.03	18.5
20	256QAM	1	49	16.87	16.96	16.92	
20	256QAM	1	99	16.89	16.99	17.00	
20	256QAM	50	0	16.96	17.01	16.99	18.5
20	256QAM	50	24	16.82	16.99	16.93	
20	256QAM	50	50	16.88	17.01	16.95	
20	256QAM	100	0	16.89	17.03	17.03	
Channel				26115	26340	26615	18.5
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	16.82	16.95	16.93	18.5
Channel				26090	26340	26640	18.5
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	16.84	16.94	16.93	18.5
Channel				26065	26340	26665	18.5
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	16.83	16.93	16.98	18.5
Channel				26055	26340	26675	18.5
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	16.91	16.97	16.92	18.5
Channel				26047	26340	26683	18.5
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	16.91	16.97	16.92	18.5



<LTE Band 25_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	25
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.41	23.53	23.41	25
20	QPSK	1	49	23.34	23.37	23.35	
20	QPSK	1	99	23.41	23.32	23.36	
20	QPSK	50	0	22.21	22.37	22.16	24
20	QPSK	50	24	22.05	22.23	22.02	
20	QPSK	50	50	22.20	22.36	22.18	
20	QPSK	100	0	22.06	22.22	22.01	24
20	16QAM	1	0	22.39	22.56	22.40	
20	16QAM	1	49	22.39	22.46	22.35	
20	16QAM	1	99	22.41	22.48	22.37	23
20	16QAM	50	0	21.38	21.48	21.32	
20	16QAM	50	24	21.37	21.52	21.40	
20	16QAM	50	50	21.36	21.43	21.36	23
20	16QAM	100	0	21.31	21.44	21.31	
20	64QAM	1	0	21.49	21.69	21.48	
20	64QAM	1	49	21.37	21.51	21.31	23
20	64QAM	1	99	21.31	21.44	21.36	
20	64QAM	50	0	20.38	20.48	20.36	
20	64QAM	50	24	20.37	20.44	20.39	22
20	64QAM	50	50	20.32	20.43	20.37	
20	64QAM	100	0	20.38	20.50	20.38	
20	256QAM	1	0	18.38	18.52	18.32	20
20	256QAM	1	49	18.38	18.52	18.37	
20	256QAM	1	99	18.31	18.52	18.38	
20	256QAM	50	0	18.37	18.51	18.39	20
20	256QAM	50	24	18.34	18.48	18.33	
20	256QAM	50	50	18.39	18.49	18.33	
20	256QAM	100	0	18.31	18.44	18.34	20
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	Tune-up limit (dBm)
15	QPSK	1	0	23.37	23.48	23.33	25
Channel				26090	26340	26640	25
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.38	23.45	23.32	25
Channel				26065	26340	26665	25
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.37	23.47	23.33	25
Channel				26055	26340	26675	25
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.34	23.48	23.32	25
Channel				26047	26340	26683	25
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.36	23.49	23.33	25



<LTE Band 26_Ant 0_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.97	25.03	24.87	25.7
15	QPSK	1	37	24.89	24.92	24.87	
15	QPSK	1	74	24.88	24.93	24.82	
15	QPSK	36	0	24.14	24.15	24.12	24.7
15	QPSK	36	20	24.10	24.12	24.05	
15	QPSK	36	39	24.06	24.08	24.01	
15	QPSK	75	0	24.08	24.11	24.09	24.7
15	16QAM	1	0	23.82	24.02	23.75	
15	16QAM	1	37	23.87	24.03	23.79	
15	16QAM	1	74	23.89	23.94	23.74	23.7
15	16QAM	36	0	22.85	23.03	22.70	
15	16QAM	36	20	22.82	22.98	22.75	
15	16QAM	36	39	22.85	22.98	22.72	23.7
15	16QAM	75	0	22.84	23.03	22.72	
15	64QAM	1	0	22.85	23.00	22.79	
15	64QAM	1	37	22.81	22.98	22.77	23.7
15	64QAM	1	74	22.82	22.98	22.71	
15	64QAM	36	0	21.87	22.00	21.77	
15	64QAM	36	20	21.85	21.94	21.72	22.7
15	64QAM	36	39	21.88	21.97	21.75	
15	64QAM	75	0	21.84	21.96	21.75	
15	256QAM	1	0	19.90	20.00	19.74	20.7
15	256QAM	1	37	19.81	19.98	19.77	
15	256QAM	1	74	19.85	20.00	19.70	
15	256QAM	36	0	19.86	19.93	19.79	20.7
15	256QAM	36	20	19.83	19.96	19.77	
15	256QAM	36	39	19.82	19.93	19.74	
15	256QAM	75	0	19.85	19.95	19.74	20.7
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.81	24.84	24.72	25.7
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.80	24.87	24.67	25.7
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.80	24.87	24.73	25.7
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.84	24.84	24.73	25.7



<LTE Band 26_Ant 1_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	20.2
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	18.94	19.09	18.86	
15	QPSK	1	37	18.86	19.03	18.77	20.2
15	QPSK	1	74	18.84	18.99	18.81	
15	QPSK	36	0	18.93	19.04	18.84	
15	QPSK	36	20	18.84	19.04	18.81	20.2
15	QPSK	36	39	18.89	18.99	18.78	
15	QPSK	75	0	18.92	19.05	18.85	
15	16QAM	1	0	18.86	19.02	18.76	20.2
15	16QAM	1	37	18.79	18.97	18.72	
15	16QAM	1	74	18.74	18.92	18.74	
15	16QAM	36	0	18.87	18.95	18.79	20.2
15	16QAM	36	20	18.77	18.95	18.74	
15	16QAM	36	39	18.80	18.89	18.69	
15	16QAM	75	0	18.87	19.00	18.75	20.2
15	64QAM	1	0	18.87	19.04	18.76	
15	64QAM	1	37	18.79	18.96	18.68	
15	64QAM	1	74	18.76	18.94	18.73	20.2
15	64QAM	36	0	18.86	18.96	18.79	
15	64QAM	36	20	18.75	18.97	18.73	
15	64QAM	36	39	18.80	18.94	18.70	20.2
15	64QAM	75	0	18.84	18.97	18.78	
15	256QAM	1	0	18.87	18.99	18.78	
15	256QAM	1	37	18.76	18.97	18.68	20.2
15	256QAM	1	74	18.79	18.90	18.72	
15	256QAM	36	0	18.83	18.96	18.79	
15	256QAM	36	20	18.75	18.95	18.74	20.2
15	256QAM	36	39	18.82	18.90	18.70	
15	256QAM	75	0	18.84	18.96	18.79	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	18.84	18.99	18.81	20.2
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	18.88	19.03	18.77	20.2
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	18.84	19.02	18.78	20.2
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	18.89	18.99	18.78	20.2



LTE Band 66_Ant 2_DSI 1_Main PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	17.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	16.65	16.82	16.90	17.5
20	QPSK	1	49	16.59	16.72	16.84	
20	QPSK	1	99	16.58	16.76	16.81	
20	QPSK	50	0	16.64	16.80	16.88	17.5
20	QPSK	50	24	16.55	16.73	16.83	
20	QPSK	50	50	16.57	16.72	16.85	
20	QPSK	100	0	16.65	16.77	16.80	
20	16QAM	1	0	16.57	16.72	16.81	17.5
20	16QAM	1	49	16.51	16.63	16.79	
20	16QAM	1	99	16.49	16.66	16.75	
20	16QAM	50	0	16.58	16.73	16.83	17.5
20	16QAM	50	24	16.49	16.68	16.73	
20	16QAM	50	50	16.52	16.62	16.79	
20	16QAM	100	0	16.59	16.70	16.70	
20	64QAM	1	0	16.57	16.73	16.84	17.5
20	64QAM	1	49	16.50	16.67	16.77	
20	64QAM	1	99	16.52	16.69	16.73	
20	64QAM	50	0	16.58	16.75	16.78	17.5
20	64QAM	50	24	16.48	16.65	16.74	
20	64QAM	50	50	16.50	16.63	16.78	
20	64QAM	100	0	16.58	16.72	16.75	
20	256QAM	1	0	16.58	16.76	16.83	17.5
20	256QAM	1	49	16.52	16.64	16.74	
20	256QAM	1	99	16.53	16.70	16.72	
20	256QAM	50	0	16.55	16.70	16.80	17.5
20	256QAM	50	24	16.47	16.65	16.78	
20	256QAM	50	50	16.49	16.62	16.80	
20	256QAM	100	0	16.58	16.70	16.70	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	17.5
15	QPSK	1	0	16.51	16.63	16.76	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	17.5
10	QPSK	1	0	16.47	16.71	16.72	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	17.5
5	QPSK	1	0	16.50	16.62	16.76	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	17.5
3	QPSK	1	0	16.52	16.67	16.79	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	17.5
1.4	QPSK	1	0	16.55	16.62	16.76	



LTE Band 66_Ant 2_DSI 1_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	16.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	14.98	15.02	15.00	
20	QPSK	1	49	14.92	14.92	14.90	16.5
20	QPSK	1	99	14.89	14.93	14.91	
20	QPSK	50	0	14.94	15.00	14.96	
20	QPSK	50	24	14.86	14.91	14.89	16.5
20	QPSK	50	50	14.86	14.91	14.90	
20	QPSK	100	0	14.90	14.99	14.92	
20	16QAM	1	0	14.88	14.95	14.94	16.5
20	16QAM	1	49	14.83	14.83	14.82	
20	16QAM	1	99	14.81	14.86	14.81	
20	16QAM	50	0	14.86	14.92	14.86	16.5
20	16QAM	50	24	14.77	14.85	14.79	
20	16QAM	50	50	14.76	14.86	14.82	
20	16QAM	100	0	14.81	14.93	14.82	16.5
20	64QAM	1	0	14.91	14.96	14.95	
20	64QAM	1	49	14.87	14.87	14.80	
20	64QAM	1	99	14.79	14.86	14.83	16.5
20	64QAM	50	0	14.89	14.92	14.88	
20	64QAM	50	24	14.78	14.81	14.82	
20	64QAM	50	50	14.77	14.83	14.80	16.5
20	64QAM	100	0	14.82	14.92	14.85	
20	256QAM	1	0	14.91	14.96	14.94	
20	256QAM	1	49	14.83	14.82	14.84	16.5
20	256QAM	1	99	14.82	14.87	14.85	
20	256QAM	50	0	14.84	14.93	14.87	
20	256QAM	50	24	14.80	14.86	14.79	16.5
20	256QAM	50	50	14.77	14.84	14.82	
20	256QAM	100	0	14.82	14.89	14.86	
Channel				132047	132322	132597	16.5
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.86	14.84	14.90	16.5
Channel				132022	132322	132622	16.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.83	14.92	14.81	16.5
Channel				131997	132322	132647	16.5
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.84	14.92	14.82	16.5
Channel				131987	132322	132657	16.5
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.80	14.85	14.90	16.5
Channel				131979	132322	132665	16.5
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.87	14.84	14.87	16.5



<LTE Band 66_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	17
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.70	15.67	15.58	
20	QPSK	1	49	15.61	15.61	15.48	17
20	QPSK	1	99	15.62	15.57	15.49	
20	QPSK	50	0	15.66	15.64	15.55	
20	QPSK	50	24	15.62	15.61	15.52	17
20	QPSK	50	50	15.61	15.60	15.53	
20	QPSK	100	0	15.65	15.61	15.56	
20	16QAM	1	0	15.61	15.60	15.53	17
20	16QAM	1	49	15.52	15.52	15.43	
20	16QAM	1	99	15.52	15.48	15.41	
20	16QAM	50	0	15.59	15.59	15.49	17
20	16QAM	50	24	15.52	15.55	15.45	
20	16QAM	50	50	15.51	15.55	15.45	
20	16QAM	100	0	15.60	15.55	15.49	17
20	64QAM	1	0	15.62	15.61	15.50	
20	64QAM	1	49	15.56	15.55	15.43	
20	64QAM	1	99	15.56	15.48	15.41	17
20	64QAM	50	0	15.61	15.57	15.47	
20	64QAM	50	24	15.55	15.51	15.47	
20	64QAM	50	50	15.56	15.55	15.45	17
20	64QAM	100	0	15.56	15.52	15.49	
20	256QAM	1	0	15.60	15.60	15.50	
20	256QAM	1	49	15.54	15.54	15.42	17
20	256QAM	1	99	15.56	15.47	15.42	
20	256QAM	50	0	15.57	15.56	15.47	
20	256QAM	50	24	15.52	15.54	15.42	17
20	256QAM	50	50	15.53	15.52	15.48	
20	256QAM	100	0	15.57	15.55	15.49	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.60	15.55	15.39	17
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.50	15.48	15.42	17
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.53	15.53	15.47	17
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.52	15.55	15.43	17
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.58	15.55	15.42	17



LTE Band 66_Ant 3_DSI 1_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	17.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	15.76	15.94	15.83	
20	QPSK	1	49	15.71	15.84	15.77	17.5
20	QPSK	1	99	15.66	15.85	15.74	
20	QPSK	50	0	15.72	15.92	15.79	
20	QPSK	50	24	15.63	15.84	15.73	17.5
20	QPSK	50	50	15.65	15.84	15.72	
20	QPSK	100	0	15.74	15.88	15.81	
20	16QAM	1	0	15.70	15.88	15.74	17.5
20	16QAM	1	49	15.66	15.77	15.70	
20	16QAM	1	99	15.61	15.75	15.64	
20	16QAM	50	0	15.62	15.84	15.73	17.5
20	16QAM	50	24	15.54	15.77	15.65	
20	16QAM	50	50	15.60	15.76	15.65	
20	16QAM	100	0	15.65	15.82	15.76	17.5
20	64QAM	1	0	15.67	15.84	15.73	
20	64QAM	1	49	15.64	15.78	15.67	
20	64QAM	1	99	15.56	15.79	15.66	17.5
20	64QAM	50	0	15.66	15.84	15.70	
20	64QAM	50	24	15.53	15.75	15.67	
20	64QAM	50	50	15.59	15.77	15.64	17.5
20	64QAM	100	0	15.65	15.83	15.74	
20	256QAM	1	0	15.69	15.89	15.76	
20	256QAM	1	49	15.61	15.75	15.67	17.5
20	256QAM	1	99	15.57	15.80	15.66	
20	256QAM	50	0	15.67	15.87	15.73	
20	256QAM	50	24	15.54	15.79	15.63	17.5
20	256QAM	50	50	15.59	15.74	15.66	
20	256QAM	100	0	15.67	15.78	15.71	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.56	15.76	15.63	17.5
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.61	15.84	15.64	17.5
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.63	15.75	15.64	17.5
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	15.63	15.81	15.70	17.5
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	15.57	15.74	15.65	17.5





<LTE Band 66_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	23
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.12	21.23	21.17	
20	QPSK	1	49	21.05	21.16	21.12	22.5
20	QPSK	1	99	21.04	21.14	21.09	
20	QPSK	50	0	21.09	21.11	21.10	
20	QPSK	50	24	20.99	21.05	21.04	22.5
20	QPSK	50	50	21.01	21.05	21.05	
20	QPSK	100	0	21.04	21.14	21.10	
20	16QAM	1	0	20.56	20.68	20.65	22.5
20	16QAM	1	49	20.50	20.56	20.56	
20	16QAM	1	99	20.53	20.56	20.58	
20	16QAM	50	0	20.59	20.52	20.52	21.5
20	16QAM	50	24	20.48	20.53	20.47	
20	16QAM	50	50	20.45	20.45	20.52	
20	16QAM	100	0	20.48	20.60	20.52	21.5
20	64QAM	1	0	19.75	19.91	19.83	
20	64QAM	1	49	19.61	19.78	19.65	
20	64QAM	1	99	19.66	19.81	19.64	20.5
20	64QAM	50	0	19.78	19.65	19.79	
20	64QAM	50	24	19.63	19.65	19.60	
20	64QAM	50	50	19.68	19.68	19.57	18.5
20	64QAM	100	0	19.60	19.69	19.60	
20	256QAM	1	0	16.76	16.73	16.73	
20	256QAM	1	49	16.82	16.81	16.70	18.5
20	256QAM	1	99	16.68	16.94	16.78	
20	256QAM	50	0	16.60	16.77	16.63	
20	256QAM	50	24	16.50	16.73	16.69	18.5
20	256QAM	50	50	16.62	16.70	16.62	
20	256QAM	100	0	16.58	16.81	16.73	
Channel				132047	132322	132597	23
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.01	21.14	21.06	
Channel				132022	132322	132622	23
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.04	21.15	21.09	
Channel				131997	132322	132647	23
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.01	21.13	21.05	
Channel				131987	132322	132657	23
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.00	21.12	21.09	
Channel				131979	132322	132665	23
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.02	21.11	21.05	



LTE Band 66_Ant 4_DSI 1_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	23.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.71	22.76	22.65	
20	QPSK	1	49	22.65	22.59	22.61	22.5
20	QPSK	1	99	22.70	22.61	22.65	
20	QPSK	50	0	21.72	21.78	21.67	
20	QPSK	50	24	21.56	21.65	21.45	22.5
20	QPSK	50	50	21.50	21.56	21.36	
20	QPSK	100	0	21.65	21.75	21.54	
20	16QAM	1	0	21.60	21.65	21.47	22.5
20	16QAM	1	49	21.64	21.69	21.64	
20	16QAM	1	99	21.71	21.71	21.63	
20	16QAM	50	0	20.68	20.72	20.59	21.5
20	16QAM	50	24	20.67	20.74	20.61	
20	16QAM	50	50	20.64	20.69	20.60	
20	16QAM	100	0	20.69	20.66	20.57	21.5
20	64QAM	1	0	20.46	20.59	20.40	
20	64QAM	1	49	20.67	20.69	20.56	
20	64QAM	1	99	20.64	20.68	20.62	20.5
20	64QAM	50	0	19.70	19.76	19.63	
20	64QAM	50	24	19.70	19.70	19.57	
20	64QAM	50	50	19.64	19.72	19.64	18.5
20	64QAM	100	0	19.71	19.75	19.64	
20	256QAM	1	0	17.44	17.51	17.32	
20	256QAM	1	49	17.68	17.68	17.65	18.5
20	256QAM	1	99	17.68	17.75	17.55	
20	256QAM	50	0	17.64	17.69	17.59	
20	256QAM	50	24	17.67	17.74	17.58	18.5
20	256QAM	50	50	17.68	17.69	17.58	
20	256QAM	100	0	17.67	17.67	17.61	
Channel				132047	132322	132597	23.5
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.63	22.68	22.58	
Channel				132022	132322	132622	23.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.67	22.73	22.59	
Channel				131997	132322	132647	23.5
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.68	22.73	22.64	
Channel				131987	132322	132657	23.5
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.66	22.71	22.58	
Channel				131979	132322	132665	23.5
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.67	22.72	22.63	



<LTE Band 66_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.65	23.69	23.47	
20	QPSK	1	49	23.64	23.57	23.40	24
20	QPSK	1	99	23.55	23.60	23.41	
20	QPSK	50	0	22.53	22.59	22.34	
20	QPSK	50	24	22.46	22.55	22.31	24
20	QPSK	50	50	22.43	22.52	22.21	
20	QPSK	100	0	22.39	22.53	22.28	
20	16QAM	1	0	22.73	22.79	22.57	24
20	16QAM	1	49	22.65	22.68	22.39	
20	16QAM	1	99	22.65	22.65	22.38	
20	16QAM	50	0	21.59	21.64	21.37	23
20	16QAM	50	24	21.56	21.67	21.39	
20	16QAM	50	50	21.58	21.59	21.41	
20	16QAM	100	0	21.58	21.65	21.45	23
20	64QAM	1	0	21.67	21.80	21.58	
20	64QAM	1	49	21.65	21.59	21.45	
20	64QAM	1	99	21.64	21.62	21.41	22
20	64QAM	50	0	20.65	20.63	20.46	
20	64QAM	50	24	20.61	20.66	20.44	
20	64QAM	50	50	20.63	20.62	20.44	20
20	64QAM	100	0	20.59	20.62	20.38	
20	256QAM	1	0	18.58	18.71	18.47	
20	256QAM	1	49	18.55	18.59	18.38	20
20	256QAM	1	99	18.56	18.62	18.44	
20	256QAM	50	0	18.63	18.59	18.40	
20	256QAM	50	24	18.56	18.59	18.38	20
20	256QAM	50	50	18.59	18.69	18.42	
20	256QAM	100	0	18.61	18.66	18.37	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.64	23.65	23.42	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.63	23.65	23.43	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.60	23.65	23.45	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.60	23.64	23.46	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.63	23.67	23.42	



LTE Band 66_Ant 5_DSI 1_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.04	24.05	23.85	
20	QPSK	1	49	23.99	23.75	23.80	24
20	QPSK	1	99	23.96	23.72	23.82	
20	QPSK	50	0	23.10	23.12	22.82	
20	QPSK	50	24	22.69	22.74	22.44	24
20	QPSK	50	50	22.83	22.87	22.64	
20	QPSK	100	0	22.96	23.02	22.77	
20	16QAM	1	0	22.98	23.06	22.84	24
20	16QAM	1	49	22.98	23.03	22.85	
20	16QAM	1	99	23.00	23.02	22.84	
20	16QAM	50	0	22.00	21.97	21.80	23
20	16QAM	50	24	22.04	21.95	21.85	
20	16QAM	50	50	21.99	21.96	21.75	
20	16QAM	100	0	22.01	22.02	21.83	23
20	64QAM	1	0	21.65	21.75	21.52	
20	64QAM	1	49	21.97	22.00	21.83	
20	64QAM	1	99	21.94	22.03	21.82	22
20	64QAM	50	0	20.97	20.95	20.85	
20	64QAM	50	24	21.01	20.95	20.83	
20	64QAM	50	50	21.00	21.05	20.82	20
20	64QAM	100	0	20.98	20.97	20.80	
20	256QAM	1	0	18.67	18.69	18.49	
20	256QAM	1	49	18.98	19.04	18.84	20
20	256QAM	1	99	18.98	18.99	18.82	
20	256QAM	50	0	19.00	19.05	18.77	
20	256QAM	50	24	18.94	18.99	18.83	20
20	256QAM	50	50	18.94	19.01	18.81	
20	256QAM	100	0	19.02	19.01	18.77	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.97	24.00	23.81	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.01	23.99	23.81	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.01	24.02	23.78	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	24.00	24.02	23.81	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.01	24.00	23.78	



LTE Band 38_Ant 2_DSI 1_Main PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	18.5
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.32	18.33	18.25	18.5
20	QPSK	1	49	18.25	18.25	18.19	
20	QPSK	1	99	18.27	18.26	18.17	
20	QPSK	50	0	18.27	18.26	18.16	18.5
20	QPSK	50	24	18.20	18.21	18.11	
20	QPSK	50	50	18.19	18.16	18.10	
20	QPSK	100	0	18.29	18.27	18.19	
20	16QAM	1	0	18.25	18.24	18.20	18.5
20	16QAM	1	49	18.18	18.15	18.11	
20	16QAM	1	99	18.22	18.16	18.08	
20	16QAM	50	0	18.19	18.21	18.10	18.5
20	16QAM	50	24	18.11	18.15	18.02	
20	16QAM	50	50	18.12	18.07	18.05	
20	16QAM	100	0	18.20	18.19	18.09	
20	64QAM	1	0	18.27	18.26	18.18	18.5
20	64QAM	1	49	18.18	18.18	18.10	
20	64QAM	1	99	18.19	18.18	18.10	
20	64QAM	50	0	18.22	18.18	18.08	18.5
20	64QAM	50	24	18.14	18.11	18.01	
20	64QAM	50	50	18.14	18.09	18.01	
20	64QAM	100	0	18.24	18.19	18.10	
20	256QAM	1	0	18.23	18.24	18.16	18.5
20	256QAM	1	49	18.16	18.18	18.10	
20	256QAM	1	99	18.20	18.17	18.08	
20	256QAM	50	0	18.18	18.17	18.07	18.5
20	256QAM	50	24	18.11	18.11	18.01	
20	256QAM	50	50	18.14	18.09	18.01	
20	256QAM	100	0	18.20	18.17	18.09	
Channel				37825	38000	38175	18.5
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.20	18.21	18.10	18.5
Channel				37800	38000	38200	18.5
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.12	18.16	18.13	18.5
Channel				37775	38000	38225	18.5
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.13	18.20	18.10	18.5



<LTE Band 38_Ant 3_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	20
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.22	19.32	19.27	
20	QPSK	1	49	19.22	19.28	19.26	20
20	QPSK	1	99	19.14	19.21	19.18	
20	QPSK	50	0	19.19	19.30	19.24	
20	QPSK	50	24	19.11	19.26	19.25	20
20	QPSK	50	50	19.20	19.24	19.23	
20	QPSK	100	0	19.18	19.29	19.25	
20	16QAM	1	0	19.04	19.16	19.08	20
20	16QAM	1	49	19.08	19.16	19.16	
20	16QAM	1	99	18.96	19.06	18.98	
20	16QAM	50	0	19.02	19.15	19.14	20
20	16QAM	50	24	18.99	19.12	19.13	
20	16QAM	50	50	19.05	19.11	19.08	
20	16QAM	100	0	19.00	19.13	19.14	20
20	64QAM	1	0	19.06	19.18	19.13	
20	64QAM	1	49	19.02	19.14	19.10	
20	64QAM	1	99	19.03	19.11	19.04	20
20	64QAM	50	0	19.09	19.15	19.12	
20	64QAM	50	24	18.93	19.13	19.13	
20	64QAM	50	50	19.07	19.08	19.12	20
20	64QAM	100	0	19.05	19.11	19.11	
20	256QAM	1	0	19.02	19.22	19.16	
20	256QAM	1	49	19.06	19.13	19.06	20
20	256QAM	1	99	18.98	19.04	19.00	
20	256QAM	50	0	19.06	19.13	19.14	
20	256QAM	50	24	18.97	19.11	19.14	20
20	256QAM	50	50	19.04	19.11	19.10	
20	256QAM	100	0	18.99	19.10	19.08	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.08	19.18	19.14	20
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.09	19.17	19.15	20
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.07	19.20	19.12	20



<LTE Band 38_Ant 4_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	20.3
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	18.58	18.67	18.51	20.3
20	QPSK	1	49	18.51	18.60	18.46	
20	QPSK	1	99	18.52	18.59	18.43	
20	QPSK	50	0	18.55	18.65	18.44	20.3
20	QPSK	50	24	18.50	18.58	18.34	
20	QPSK	50	50	18.45	18.55	18.34	
20	QPSK	100	0	18.52	18.60	18.45	20.3
20	16QAM	1	0	18.53	18.58	18.45	
20	16QAM	1	49	18.41	18.53	18.36	
20	16QAM	1	99	18.44	18.53	18.33	20.3
20	16QAM	50	0	18.47	18.58	18.35	
20	16QAM	50	24	18.43	18.51	18.33	
20	16QAM	50	50	18.39	18.45	18.30	20.3
20	16QAM	100	0	18.46	18.53	18.36	
20	64QAM	1	0	18.49	18.62	18.46	
20	64QAM	1	49	18.45	18.51	18.39	20.3
20	64QAM	1	99	18.43	18.54	18.37	
20	64QAM	50	0	18.48	18.59	18.38	
20	64QAM	50	24	18.43	18.48	18.35	20.3
20	64QAM	50	50	18.39	18.45	18.30	
20	64QAM	100	0	18.47	18.51	18.35	
20	256QAM	1	0	17.57	17.54	17.23	19
20	256QAM	1	49	17.33	17.33	17.49	
20	256QAM	1	99	17.64	17.31	17.20	
20	256QAM	50	0	17.35	17.80	17.64	19
20	256QAM	50	24	17.56	17.32	17.36	
20	256QAM	50	50	17.43	17.69	17.14	
20	256QAM	100	0	17.28	17.50	17.19	19
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	18.43	18.54	18.38	20.3
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.38	18.56	18.41	20.3
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.39	18.54	18.33	20.3



<LTE Band 38_Ant 5_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	25.7
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.72	24.74	24.45	
20	QPSK	1	49	24.63	24.66	24.39	24.7
20	QPSK	1	99	24.67	24.64	24.35	
20	QPSK	50	0	23.76	23.78	23.44	
20	QPSK	50	24	23.63	23.72	23.41	24.7
20	QPSK	50	50	23.71	23.77	23.40	
20	QPSK	100	0	23.64	23.68	23.32	
20	16QAM	1	0	23.86	23.94	23.61	24.7
20	16QAM	1	49	23.67	23.66	23.42	
20	16QAM	1	99	23.65	23.66	23.36	
20	16QAM	50	0	22.62	22.67	22.35	23.7
20	16QAM	50	24	22.71	22.69	22.43	
20	16QAM	50	50	22.62	22.73	22.43	
20	16QAM	100	0	22.70	22.74	22.35	23.7
20	64QAM	1	0	22.61	22.71	22.32	
20	64QAM	1	49	22.64	22.69	22.45	
20	64QAM	1	99	22.65	22.64	22.35	22.7
20	64QAM	50	0	21.71	21.69	21.45	
20	64QAM	50	24	21.66	21.69	21.45	
20	64QAM	50	50	21.64	21.73	21.39	20.7
20	64QAM	100	0	21.72	21.71	21.36	
20	256QAM	1	0	19.59	19.65	19.33	
20	256QAM	1	49	19.72	19.72	19.39	20.7
20	256QAM	1	99	19.67	19.67	19.42	
20	256QAM	50	0	19.62	19.70	19.42	
20	256QAM	50	24	19.66	19.72	19.44	20.7
20	256QAM	50	50	19.65	19.72	19.41	
20	256QAM	100	0	19.63	19.64	19.39	
Channel				37825	38000	38175	25.7
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.63	24.65	24.39	25.7
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	25.7
10	QPSK	1	0	24.61	24.63	24.35	
Channel				37775	38000	38225	25.7
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.61	24.65	24.37	25.7





<LTE Band 41_Ant 2_DSI 1_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.26	18.24	18.34	18.19	18.31	18.5
20	QPSK	1	49	18.18	18.16	18.24	18.10	18.24	
20	QPSK	1	99	18.16	18.16	18.26	18.13	18.26	
20	QPSK	50	0	18.21	18.22	18.31	18.14	18.24	18.5
20	QPSK	50	24	18.11	18.22	18.26	18.06	18.17	
20	QPSK	50	50	18.16	18.16	18.24	18.08	18.14	
20	QPSK	100	0	18.22	18.24	18.29	18.17	18.20	
20	16QAM	1	0	18.17	18.16	18.27	18.13	18.21	18.5
20	16QAM	1	49	18.10	18.08	18.17	18.03	18.18	
20	16QAM	1	99	18.06	18.08	18.16	18.04	18.17	
20	16QAM	50	0	18.11	18.12	18.23	18.07	18.17	18.5
20	16QAM	50	24	18.02	18.15	18.16	17.97	18.08	
20	16QAM	50	50	18.11	18.08	18.19	18.01	18.06	
20	16QAM	100	0	18.12	18.19	18.20	18.10	18.15	
20	64QAM	1	0	18.16	18.16	18.24	18.12	18.26	
20	64QAM	1	49	18.08	18.09	18.18	18.05	18.15	18.5
20	64QAM	1	99	18.08	18.09	18.17	18.03	18.21	
20	64QAM	50	0	18.12	18.17	18.26	18.05	18.14	
20	64QAM	50	24	18.04	18.13	18.18	17.97	18.11	18.5
20	64QAM	50	50	18.08	18.10	18.18	18.02	18.06	
20	64QAM	100	0	18.15	18.14	18.23	18.09	18.14	
20	256QAM	1	0	18.21	18.15	18.27	18.14	18.21	
20	256QAM	1	49	18.12	18.09	18.17	18.01	18.19	18.5
20	256QAM	1	99	18.11	18.08	18.17	18.06	18.19	
20	256QAM	50	0	18.16	18.14	18.23	18.05	18.19	
20	256QAM	50	24	18.01	18.16	18.18	17.99	18.12	18.5
20	256QAM	50	50	18.07	18.09	18.17	17.98	18.05	
20	256QAM	100	0	18.15	18.19	18.22	18.11	18.15	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.09	18.06	18.22	18.02	18.19	18.50
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.15	18.10	18.18	18.05	18.14	18.50
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.13	18.14	18.19	18.06	18.19	18.50



<LTE Band 41_Ant 3_DSI 1_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.19	19.24	19.43	19.26	19.31	20
20	QPSK	1	49	19.09	19.12	19.32	19.14	19.16	
20	QPSK	1	99	19.05	19.13	19.31	19.15	19.21	
20	QPSK	50	0	19.16	19.22	19.40	19.24	19.28	20
20	QPSK	50	24	19.03	19.11	19.29	19.14	19.14	
20	QPSK	50	50	19.05	19.11	19.27	19.12	19.17	
20	QPSK	100	0	18.74	18.83	19.01	18.82	18.85	20
20	16QAM	1	0	19.09	19.07	19.33	19.08	19.11	
20	16QAM	1	49	18.93	18.92	19.20	18.96	18.99	
20	16QAM	1	99	18.95	19.00	19.14	18.99	19.05	20
20	16QAM	50	0	19.03	19.08	19.30	19.11	19.16	
20	16QAM	50	24	18.92	18.94	19.11	19.00	18.98	
20	16QAM	50	50	18.91	19.01	19.16	19.00	18.97	20
20	16QAM	100	0	18.56	18.71	18.90	18.72	18.66	
20	64QAM	1	0	19.08	19.07	19.25	19.09	19.16	
20	64QAM	1	49	18.98	18.97	19.12	19.02	19.00	20
20	64QAM	1	99	18.86	18.96	19.11	18.99	19.09	
20	64QAM	50	0	19.00	19.11	19.29	19.05	19.12	
20	64QAM	50	24	18.85	18.93	19.19	18.98	18.99	20
20	64QAM	50	50	18.89	18.95	19.12	18.92	19.06	
20	64QAM	100	0	18.59	18.69	18.89	18.64	18.74	
20	256QAM	1	0	19.02	19.13	19.23	19.13	19.13	20
20	256QAM	1	49	18.95	18.98	19.21	18.94	19.00	
20	256QAM	1	99	18.87	18.98	19.20	19.01	19.05	
20	256QAM	50	0	18.97	19.03	19.30	19.08	19.10	20
20	256QAM	50	24	18.85	18.92	19.18	18.98	19.00	
20	256QAM	50	50	18.88	19.00	19.12	18.97	19.07	
20	256QAM	100	0	18.62	18.63	18.87	18.70	18.71	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.05	19.12	19.30	19.06	19.11	20
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.02	19.10	19.28	19.08	19.18	20
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.05	19.08	19.30	19.10	19.11	20



<LTE Band 41_Ant 4_DSI 1_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	18.53	18.56	18.68	18.61	18.57	20.3
20	QPSK	1	49	18.43	18.47	18.60	18.55	18.49	
20	QPSK	1	99	18.46	18.47	18.63	18.55	18.51	
20	QPSK	50	0	18.51	18.55	18.66	18.60	18.55	20.3
20	QPSK	50	24	18.42	18.48	18.60	18.53	18.45	
20	QPSK	50	50	18.42	18.47	18.57	18.50	18.46	
20	QPSK	100	0	18.50	18.52	18.64	18.59	18.54	20.3
20	16QAM	1	0	18.46	18.47	18.60	18.53	18.48	
20	16QAM	1	49	18.33	18.38	18.50	18.50	18.40	
20	16QAM	1	99	18.40	18.38	18.55	18.45	18.41	20.3
20	16QAM	50	0	18.41	18.47	18.60	18.50	18.50	
20	16QAM	50	24	18.33	18.42	18.54	18.46	18.35	
20	16QAM	50	50	18.36	18.37	18.51	18.41	18.37	20.3
20	16QAM	100	0	18.43	18.44	18.55	18.53	18.47	
20	64QAM	1	0	18.48	18.51	18.58	18.56	18.48	
20	64QAM	1	49	18.36	18.41	18.53	18.50	18.39	20.3
20	64QAM	1	99	18.41	18.38	18.55	18.49	18.44	
20	64QAM	50	0	18.43	18.47	18.57	18.55	18.50	
20	64QAM	50	24	18.32	18.40	18.50	18.43	18.40	20.3
20	64QAM	50	50	18.36	18.40	18.51	18.41	18.36	
20	64QAM	100	0	18.44	18.47	18.58	18.50	18.45	
20	256QAM	1	0	17.59	17.34	17.76	17.47	17.38	19
20	256QAM	1	49	17.44	17.23	17.76	17.62	17.62	
20	256QAM	1	99	17.32	17.43	17.66	17.68	17.53	
20	256QAM	50	0	17.45	17.32	17.75	17.41	17.42	19
20	256QAM	50	24	17.20	17.27	17.71	17.73	17.21	
20	256QAM	50	50	17.52	17.17	17.61	17.48	17.48	
20	256QAM	100	0	17.21	17.27	17.78	17.52	17.66	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.41	18.36	18.48	18.51	18.44	20.30
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.42	18.43	18.54	18.42	18.44	20.30
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.37	18.41	18.55	18.45	18.47	20.30



<LTE Band 41_Ant 5_DSI 1_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.97	24.79	24.99	24.57	24.69	25.7
20	QPSK	1	49	24.87	24.79	24.91	24.52	24.67	
20	QPSK	1	99	24.97	24.75	24.90	24.53	24.67	
20	QPSK	50	0	24.29	24.20	24.40	23.91	24.06	24.7
20	QPSK	50	24	24.23	24.08	24.34	23.88	23.94	
20	QPSK	50	50	24.29	24.03	24.31	23.83	23.99	
20	QPSK	100	0	24.30	24.14	24.41	23.89	24.08	
20	16QAM	1	0	24.38	24.20	24.48	23.96	24.10	24.7
20	16QAM	1	49	23.96	23.79	23.99	23.57	23.62	
20	16QAM	1	99	23.89	23.79	23.91	23.55	23.68	
20	16QAM	50	0	22.93	22.71	22.94	22.50	22.64	23.7
20	16QAM	50	24	22.95	22.72	22.96	22.53	22.59	
20	16QAM	50	50	22.93	22.79	22.97	22.54	22.63	
20	16QAM	100	0	22.87	22.69	22.91	22.51	22.69	
20	64QAM	1	0	22.92	22.74	22.98	22.55	22.68	23.7
20	64QAM	1	49	22.89	22.79	22.94	22.54	22.59	
20	64QAM	1	99	22.97	22.70	22.97	22.54	22.64	
20	64QAM	50	0	21.96	21.73	21.97	21.57	21.63	22.7
20	64QAM	50	24	21.97	21.78	21.93	21.56	21.64	
20	64QAM	50	50	21.89	21.79	21.98	21.56	21.69	
20	64QAM	100	0	21.92	21.72	21.99	21.49	21.69	
20	256QAM	1	0	19.88	19.63	19.92	19.43	19.53	20.7
20	256QAM	1	49	19.87	19.79	19.96	19.47	19.69	
20	256QAM	1	99	19.95	19.75	19.97	19.55	19.66	
20	256QAM	50	0	19.90	19.72	19.91	19.54	19.66	20.7
20	256QAM	50	24	19.97	19.74	19.94	19.56	19.68	
20	256QAM	50	50	19.97	19.71	19.92	19.51	19.66	
20	256QAM	100	0	19.90	19.73	19.90	19.52	19.62	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.92	24.72	24.96	24.54	24.63	25.70
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.93	24.77	24.96	24.49	24.61	25.70
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.91	24.73	24.96	24.55	24.63	25.70



<LTE Band 42_Ant 6_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	15.5
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	15.07	15.19	15.12	15.5
20	QPSK	1	49	14.94	15.04	14.98	
20	QPSK	1	99	14.90	15.03	14.98	
20	QPSK	50	0	15.05	15.17	15.07	15.5
20	QPSK	50	24	14.91	15.08	14.98	
20	QPSK	50	50	14.88	15.00	14.93	
20	QPSK	100	0	15.01	15.14	15.04	15.5
20	16QAM	1	0	14.90	15.02	14.93	
20	16QAM	1	49	14.75	14.90	14.86	
20	16QAM	1	99	14.76	14.90	14.78	15.5
20	16QAM	50	0	14.92	14.98	14.97	
20	16QAM	50	24	14.71	14.96	14.86	
20	16QAM	50	50	14.69	14.80	14.79	15.5
20	16QAM	100	0	14.87	15.00	14.93	
20	64QAM	1	0	14.93	15.01	14.98	
20	64QAM	1	49	14.78	14.86	14.85	15.5
20	64QAM	1	99	14.73	14.89	14.79	
20	64QAM	50	0	14.86	15.01	14.92	
20	64QAM	50	24	14.78	14.89	14.82	15.5
20	64QAM	50	50	14.68	14.89	14.75	
20	64QAM	100	0	14.90	14.97	14.87	
20	256QAM	1	0	14.96	14.99	14.99	15.5
20	256QAM	1	49	14.83	14.88	14.80	
20	256QAM	1	99	14.73	14.92	14.79	
20	256QAM	50	0	14.90	15.03	14.96	15.5
20	256QAM	50	24	14.75	14.94	14.83	
20	256QAM	50	50	14.70	14.87	14.79	
20	256QAM	100	0	14.85	15.03	14.85	15.5
Channel				42165	42590	43015	
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	15.02	15.11	15.05	15.5
Channel				42140	42590	43040	15.5
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	15.01	15.08	15.07	15.5
Channel				42115	42590	43065	15.5
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	15.05	15.14	15.02	15.5



<LTE Band 42_Ant 7_DSI 1_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	17.3
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	16.56	16.64	16.51	
20	QPSK	1	49	16.42	16.44	16.38	17.3
20	QPSK	1	99	16.39	16.53	16.35	
20	QPSK	50	0	16.55	16.61	16.49	
20	QPSK	50	24	16.39	16.54	16.35	17.3
20	QPSK	50	50	16.45	16.48	16.35	
20	QPSK	100	0	16.52	16.59	16.48	
20	16QAM	1	0	16.51	16.59	16.43	17.3
20	16QAM	1	49	16.34	16.36	16.31	
20	16QAM	1	99	16.31	16.43	16.28	
20	16QAM	50	0	16.47	16.54	16.44	17.3
20	16QAM	50	24	16.31	16.47	16.30	
20	16QAM	50	50	16.35	16.41	16.28	
20	16QAM	100	0	16.42	16.53	16.40	17.3
20	64QAM	1	0	16.48	16.57	16.45	
20	64QAM	1	49	16.32	16.34	16.28	
20	64QAM	1	99	16.34	16.44	16.25	17.3
20	64QAM	50	0	16.48	16.52	16.44	
20	64QAM	50	24	16.34	16.46	16.28	
20	64QAM	50	50	16.36	16.39	16.26	17.3
20	64QAM	100	0	16.42	16.51	16.43	
20	256QAM	1	0	16.51	16.59	16.43	
20	256QAM	1	49	16.33	16.37	16.30	17.3
20	256QAM	1	99	16.32	16.45	16.29	
20	256QAM	50	0	16.47	16.51	16.39	
20	256QAM	50	24	16.34	16.48	16.30	17.3
20	256QAM	50	50	16.36	16.40	16.26	
20	256QAM	100	0	16.45	16.49	16.38	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	16.44	16.48	16.32	17.3
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	16.38	16.45	16.31	17.3
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	16.45	16.53	16.31	17.3



<b>&lt;LTE Band 42_Ant 8_DSI 1_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	24.5
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.31	23.32	23.24	
20	QPSK	1	49	23.26	23.20	23.21	23.5
20	QPSK	1	99	23.26	23.22	23.14	
20	QPSK	50	0	22.28	22.30	22.18	
20	QPSK	50	24	22.17	22.26	22.13	23.5
20	QPSK	50	50	22.03	22.11	22.00	
20	QPSK	100	0	22.07	22.18	22.06	
20	16QAM	1	0	22.20	22.30	22.12	23.5
20	16QAM	1	49	22.23	22.27	22.19	
20	16QAM	1	99	22.25	22.25	22.15	
20	16QAM	50	0	21.31	21.27	21.16	22.5
20	16QAM	50	24	21.28	21.30	21.15	
20	16QAM	50	50	21.25	21.27	21.22	
20	16QAM	100	0	21.29	21.23	21.21	22.5
20	64QAM	1	0	20.87	20.97	20.87	
20	64QAM	1	49	21.31	21.28	21.22	
20	64QAM	1	99	21.22	21.27	21.24	21.5
20	64QAM	50	0	20.28	20.32	20.20	
20	64QAM	50	24	20.21	20.30	20.22	
20	64QAM	50	50	20.22	20.29	20.17	19.5
20	64QAM	100	0	20.28	20.23	20.21	
20	256QAM	1	0	18.10	18.11	17.95	
20	256QAM	1	49	18.31	18.26	18.15	19.5
20	256QAM	1	99	18.31	18.26	18.23	
20	256QAM	50	0	18.25	18.25	18.17	
20	256QAM	50	24	18.26	18.30	18.16	19.5
20	256QAM	50	50	18.24	18.27	18.22	
20	256QAM	100	0	18.28	18.27	18.16	
Channel				42165	42590	43015	24.5
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.25	23.25	23.21	24.5
Channel				42140	42590	43040	24.5
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.29	23.30	23.19	24.5
Channel				42115	42590	43065	24.5
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.26	23.28	23.18	24.5



<b>&lt;LTE Band 42_Ant 9_DSI 1_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	18.3
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	17.14	17.20	17.11	
20	QPSK	1	49	16.98	17.07	16.99	18.3
20	QPSK	1	99	17.03	17.01	16.95	
20	QPSK	50	0	17.12	17.19	17.08	
20	QPSK	50	24	16.95	17.01	16.98	18.3
20	QPSK	50	50	16.96	17.10	16.98	
20	QPSK	100	0	17.13	17.16	17.09	
20	16QAM	1	0	16.95	17.02	16.96	18.3
20	16QAM	1	49	16.84	16.95	16.85	
20	16QAM	1	99	16.86	16.89	16.75	
20	16QAM	50	0	17.08	17.13	17.01	18.3
20	16QAM	50	24	16.91	16.97	16.98	
20	16QAM	50	50	16.91	17.09	16.91	
20	16QAM	100	0	17.12	17.12	16.99	18.3
20	64QAM	1	0	16.88	17.00	16.90	
20	64QAM	1	49	16.83	16.87	16.85	
20	64QAM	1	99	16.85	16.83	16.68	18.3
20	64QAM	50	0	17.08	17.15	16.98	
20	64QAM	50	24	16.91	16.97	16.89	
20	64QAM	50	50	16.93	17.04	16.97	18.3
20	64QAM	100	0	17.11	17.13	17.09	
20	256QAM	1	0	16.90	16.92	16.83	
20	256QAM	1	49	16.78	16.84	16.79	18.3
20	256QAM	1	99	16.77	16.80	16.65	
20	256QAM	50	0	16.98	17.09	17.01	
20	256QAM	50	24	16.84	16.91	16.89	18.3
20	256QAM	50	50	16.90	16.98	16.93	
20	256QAM	100	0	17.04	17.09	17.02	
Channel				42165	42590	43015	18.3
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	17.08	17.13	17.05	18.3
Channel				42140	42590	43040	18.3
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	17.11	17.17	17.04	18.3
Channel				42115	42590	43065	18.3
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	17.05	17.12	17.02	18.3





<LTE Band 48_Ant 6_DSI 1_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.72	16.86	16.69	16.79	17
20	QPSK	1	49	16.53	16.73	16.57	16.66	
20	QPSK	1	99	16.54	16.72	16.57	16.59	
20	QPSK	50	0	16.71	16.80	16.64	16.75	17
20	QPSK	50	24	16.55	16.71	16.54	16.63	
20	QPSK	50	50	16.62	16.69	16.51	16.62	
20	QPSK	100	0	16.70	16.79	16.62	16.74	
20	16QAM	1	0	16.53	16.71	16.49	16.62	17
20	16QAM	1	49	16.35	16.56	16.45	16.52	
20	16QAM	1	99	16.43	16.53	16.41	16.45	
20	16QAM	50	0	16.51	16.61	16.54	16.57	17
20	16QAM	50	24	16.35	16.55	16.35	16.48	
20	16QAM	50	50	16.46	16.55	16.40	16.42	
20	16QAM	100	0	16.51	16.63	16.47	16.56	
20	64QAM	1	0	16.59	16.72	16.58	16.67	17
20	64QAM	1	49	16.34	16.60	16.39	16.55	
20	64QAM	1	99	16.36	16.55	16.42	16.41	
20	64QAM	50	0	16.59	16.69	16.45	16.59	17
20	64QAM	50	24	16.36	16.59	16.39	16.50	
20	64QAM	50	50	16.43	16.51	16.36	16.47	
20	64QAM	100	0	16.57	16.61	16.44	16.62	
20	256QAM	1	0	16.53	16.73	16.54	16.60	17
20	256QAM	1	49	16.42	16.56	16.37	16.50	
20	256QAM	1	99	16.39	16.52	16.40	16.48	
20	256QAM	50	0	16.57	16.63	16.54	16.55	17
20	256QAM	50	24	16.37	16.61	16.34	16.51	
20	256QAM	50	50	16.45	16.57	16.33	16.43	
20	256QAM	100	0	16.57	16.68	16.46	16.59	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	16.62	16.72	16.58	16.65	17
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	16.58	16.66	16.57	16.68	17
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	16.60	16.66	16.53	16.59	17



<LTE Band 48_Ant 7_DSI 1_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	16.3
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	16.02	16.05	16.02	16.01	16.3
20	QPSK	1	49	15.88	15.88	15.85	15.87	
20	QPSK	1	99	15.87	15.90	15.86	15.81	
20	QPSK	50	0	15.98	15.99	15.97	15.98	16.3
20	QPSK	50	24	15.87	15.89	15.92	15.89	
20	QPSK	50	50	15.86	15.94	15.82	15.89	
20	QPSK	100	0	15.90	15.94	15.87	15.82	
20	16QAM	1	0	15.94	15.98	15.94	15.93	16.3
20	16QAM	1	49	15.83	15.83	15.80	15.79	
20	16QAM	1	99	15.77	15.80	15.77	15.75	
20	16QAM	50	0	15.90	15.92	15.91	15.93	16.3
20	16QAM	50	24	15.77	15.84	15.85	15.84	
20	16QAM	50	50	15.81	15.87	15.73	15.84	
20	16QAM	100	0	15.85	15.86	15.78	15.74	
20	64QAM	1	0	15.95	15.99	15.95	15.94	16.3
20	64QAM	1	49	15.82	15.82	15.76	15.80	
20	64QAM	1	99	15.79	15.83	15.80	15.75	
20	64QAM	50	0	15.89	15.89	15.87	15.91	16.3
20	64QAM	50	24	15.79	15.83	15.85	15.82	
20	64QAM	50	50	15.79	15.86	15.77	15.84	
20	64QAM	100	0	15.83	15.84	15.77	15.72	
20	256QAM	1	0	15.95	15.99	15.97	15.92	16.3
20	256QAM	1	49	15.81	15.82	15.80	15.78	
20	256QAM	1	99	15.81	15.82	15.80	15.74	
20	256QAM	50	0	15.93	15.93	15.92	15.89	16.3
20	256QAM	50	24	15.81	15.79	15.86	15.79	
20	256QAM	50	50	15.78	15.88	15.75	15.79	
20	256QAM	100	0	15.80	15.88	15.80	15.75	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	16.3
15	QPSK	1	0	15.84	15.93	15.87	15.89	16.3
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	16.3
10	QPSK	1	0	15.82	15.89	15.89	15.87	16.3
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	16.3
5	QPSK	1	0	15.82	15.90	15.89	15.89	16.3



<LTE Band 48_Ant 8_DSI 1_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.57	21.71	21.69	21.61	22.5
20	QPSK	1	49	21.50	21.53	21.67	21.59	
20	QPSK	1	99	21.54	21.64	21.63	21.53	
20	QPSK	50	0	20.47	20.61	20.58	20.46	21.5
20	QPSK	50	24	20.32	20.51	20.46	20.41	
20	QPSK	50	50	20.27	20.44	20.38	20.34	
20	QPSK	100	0	20.22	20.45	20.41	20.33	
20	16QAM	1	0	20.49	20.63	20.61	20.44	21.5
20	16QAM	1	49	20.49	20.71	20.59	20.56	
20	16QAM	1	99	20.53	20.65	20.60	20.51	
20	16QAM	50	0	19.53	19.61	19.67	19.60	20.5
20	16QAM	50	24	19.54	19.71	19.67	19.56	
20	16QAM	50	50	19.53	19.65	19.59	19.60	
20	16QAM	100	0	19.55	19.68	19.59	19.52	
20	64QAM	1	0	19.17	19.31	19.25	19.16	20.5
20	64QAM	1	49	19.54	19.62	19.66	19.55	
20	64QAM	1	99	19.52	19.61	19.63	19.54	
20	64QAM	50	0	18.51	18.70	18.68	18.56	19.5
20	64QAM	50	24	18.54	18.65	18.65	18.59	
20	64QAM	50	50	18.53	18.70	18.62	18.57	
20	64QAM	100	0	18.53	18.61	18.67	18.55	
20	256QAM	1	0	16.31	16.45	16.38	16.32	17.5
20	256QAM	1	49	16.50	16.63	16.65	16.58	
20	256QAM	1	99	16.53	16.62	16.67	16.54	
20	256QAM	50	0	16.49	16.62	16.60	16.60	17.5
20	256QAM	50	24	16.55	16.70	16.59	16.60	
20	256QAM	50	50	16.55	16.62	16.63	16.56	
20	256QAM	100	0	16.52	16.62	16.67	16.54	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.48	21.68	21.63	21.53	22.5
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.53	21.64	21.65	21.58	22.5
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.50	21.67	21.60	21.58	22.5



<LTE Band 48_Ant 9_DSI 1_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.16	21.21	21.19	21.15	22
20	QPSK	1	49	21.06	21.08	21.18	21.15	
20	QPSK	1	99	21.06	21.07	21.15	21.13	
20	QPSK	50	0	20.07	20.18	20.11	20.05	21
20	QPSK	50	24	19.99	20.05	19.99	19.97	
20	QPSK	50	50	20.04	20.17	20.06	20.09	
20	QPSK	100	0	20.00	20.14	20.11	20.00	
20	16QAM	1	0	20.15	20.22	20.15	20.16	21
20	16QAM	1	49	20.13	20.19	20.19	20.12	
20	16QAM	1	99	20.10	20.14	20.10	20.05	
20	16QAM	50	0	19.15	19.15	19.18	19.14	20
20	16QAM	50	24	19.06	19.17	19.17	19.07	
20	16QAM	50	50	19.11	19.20	19.10	19.09	
20	16QAM	100	0	19.16	19.13	19.19	19.12	
20	64QAM	1	0	18.79	18.94	18.82	18.84	20
20	64QAM	1	49	19.16	19.18	19.10	19.15	
20	64QAM	1	99	19.14	19.11	19.18	19.06	
20	64QAM	50	0	18.15	18.20	18.14	18.15	19
20	64QAM	50	24	18.08	18.19	18.15	18.07	
20	64QAM	50	50	18.14	18.20	18.15	18.13	
20	64QAM	100	0	18.13	18.15	18.18	18.15	
20	256QAM	1	0	15.99	16.06	15.98	15.96	17
20	256QAM	1	49	16.13	16.13	16.13	16.08	
20	256QAM	1	99	16.07	16.15	16.17	16.06	
20	256QAM	50	0	16.14	16.20	16.11	16.07	17
20	256QAM	50	24	16.07	16.16	16.16	16.08	
20	256QAM	50	50	16.13	16.17	16.09	16.07	
20	256QAM	100	0	16.12	16.19	16.16	16.12	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.10	21.13	21.16	21.09	22
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.12	21.19	21.14	21.13	22
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.08	21.15	21.17	21.07	22



**<FR1 n5\_Ant 0\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.99	25.03	25.01	25.7
20	PI/2 BPSK	1	53	24.96	25.01	24.98	
20	PI/2 BPSK	1	104	24.83	24.93	24.86	
20	PI/2 BPSK	50	0	24.51	24.59	24.55	25.2
20	PI/2 BPSK	50	28	24.88	25.01	24.92	25.7
20	PI/2 BPSK	50	56	24.51	24.63	24.53	25.2
20	PI/2 BPSK	100	0	24.43	24.66	24.55	
20	QPSK	1	1	25.13	25.21	25.19	25.7
20	QPSK	1	53	24.83	24.89	24.87	
20	QPSK	1	104	24.90	25.01	24.93	
20	QPSK	50	0	24.44	24.51	24.42	24.7
20	QPSK	50	28	24.88	25.01	24.93	25.7
20	QPSK	50	56	24.47	24.59	24.53	24.7
20	QPSK	100	0	24.49	24.53	24.50	
20	16QAM	1	1	23.88	23.97	23.96	24.7
20	64QAM	1	1	22.43	22.53	22.52	23.2
20	256QAM	1	1	19.20	19.26	19.22	21.2
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.99	25.10	25.04	25.7
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.97	25.05	25.00	25.7
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.99	25.10	25.05	25.7



<FR1 n5\_Ant 0\_DSI 1\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.82	24.94	24.81	25.5
20	PI/2 BPSK	1	53	24.83	24.95	24.82	
20	PI/2 BPSK	1	104	24.81	24.93	24.79	
20	PI/2 BPSK	50	0	24.51	24.55	24.48	25.0
20	PI/2 BPSK	50	28	24.81	24.93	24.76	25.5
20	PI/2 BPSK	50	56	24.39	24.52	24.33	25.0
20	PI/2 BPSK	100	0	24.41	24.51	24.36	
20	QPSK	1	1	24.85	24.96	24.81	25.5
20	QPSK	1	53	24.84	24.81	24.83	
20	QPSK	1	104	24.83	24.91	24.81	
20	QPSK	50	0	23.88	23.92	23.80	24.5
20	QPSK	50	28	24.88	24.93	24.81	25.5
20	QPSK	50	56	23.81	23.94	23.78	24.5
20	QPSK	100	0	23.92	23.99	23.91	
20	16QAM	1	1	23.56	23.65	23.50	24.5
20	64QAM	1	1	22.38	22.46	22.32	23.0
20	256QAM	1	1	20.86	20.98	20.81	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.71	24.79	24.64	25.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.70	24.84	24.70	25.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.75	24.83	24.65	25.5



**<FR1 n5\_Ant 1\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	21.0
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.26	20.41	20.27	21.0
20	PI/2 BPSK	1	53	20.13	20.31	20.21	
20	PI/2 BPSK	1	104	20.16	20.33	20.25	
20	PI/2 BPSK	50	0	20.18	20.30	20.24	21.0
20	PI/2 BPSK	50	28	20.23	20.40	20.25	21.0
20	PI/2 BPSK	50	56	20.21	20.31	20.21	21.0
20	PI/2 BPSK	100	0	20.20	20.36	20.28	
20	QPSK	1	1	20.33	20.47	20.36	21.0
20	QPSK	1	53	20.23	20.38	20.27	
20	QPSK	1	104	20.24	20.42	20.31	
20	QPSK	50	0	20.28	20.40	20.29	21.0
20	QPSK	50	28	20.31	20.45	20.35	21.0
20	QPSK	50	56	20.28	20.39	20.26	21.0
20	QPSK	100	0	20.29	20.44	20.36	
20	16QAM	1	1	20.14	20.33	20.25	21.0
20	64QAM	1	1	20.13	20.34	20.22	21.0
20	256QAM	1	1	20.22	20.36	20.23	21.0
Channel				166300	167300	168300	21.0
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.15	20.33	20.23	21.0
Channel				165800	167300	168800	21.0
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.20	20.34	20.20	21.0
Channel				165300	167300	169300	21.0
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.20	20.33	20.18	21.0



<FR1 n5\_Ant 1\_DSI 1\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	20.11	20.18	20.17	21.0
20	PI/2 BPSK	1	53	20.04	20.13	20.12	
20	PI/2 BPSK	1	104	20.03	20.10	20.11	
20	PI/2 BPSK	50	0	20.04	20.12	20.10	21.0
20	PI/2 BPSK	50	28	20.08	20.18	20.20	21.0
20	PI/2 BPSK	50	56	20.04	20.16	20.07	21.0
20	PI/2 BPSK	100	0	20.08	20.13	20.14	
20	QPSK	1	1	20.19	20.28	20.27	21.0
20	QPSK	1	53	20.14	20.20	20.18	
20	QPSK	1	104	20.11	20.20	20.18	
20	QPSK	50	0	20.11	20.20	20.17	21.0
20	QPSK	50	28	20.17	20.27	20.25	21.0
20	QPSK	50	56	20.14	20.22	20.17	21.0
20	QPSK	100	0	20.13	20.19	20.20	
20	16QAM	1	1	20.08	20.17	20.15	21.0
20	64QAM	1	1	20.03	20.08	20.08	21.0
20	256QAM	1	1	20.08	20.11	20.07	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	20.02	20.16	20.16	21.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	20.02	20.18	20.08	21.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	20.05	20.10	20.13	21.0





<FR1 n7\_Ant 2\_DSI 1\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	17.2
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	17.2
50	PI/2 BPSK	135	68	17.2
50	PI/2 BPSK	135	135	17.2
50	PI/2 BPSK	270	0	
50	QPSK	1	1	17.2
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	17.2
50	QPSK	135	68	17.2
50	QPSK	135	135	17.2
50	QPSK	270	0	
50	16QAM	1	1	17.2
50	64QAM	1	1	17.2
50	256QAM	1	1	17.2
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	17.2
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	17.2
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.2
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	17.2
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.2
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	17.2
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.2



<FR1 n7\_Ant 3\_DSI 1\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	17.2
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	17.2
50	PI/2 BPSK	135	68	17.2
50	PI/2 BPSK	135	135	17.2
50	PI/2 BPSK	270	0	
50	QPSK	1	1	17.2
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	17.2
50	QPSK	135	68	17.2
50	QPSK	135	135	17.2
50	QPSK	270	0	
50	16QAM	1	1	17.2
50	64QAM	1	1	17.2
50	256QAM	1	1	17.2
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	17.2
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	17.2
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	17.2
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	17.2
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	17.2
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	17.2
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	17.2



<FR1 n7\_Ant 4\_DSI 1\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	18.5
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	18.5
50	PI/2 BPSK	135	68	18.5
50	PI/2 BPSK	135	135	18.5
50	PI/2 BPSK	270	0	
50	QPSK	1	1	18.5
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	18.5
50	QPSK	135	68	18.5
50	QPSK	135	135	18.5
50	QPSK	270	0	
50	16QAM	1	1	18.5
50	64QAM	1	1	18.5
50	256QAM	1	1	18.5
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	18.5
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	18.5
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	18.5
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	18.5
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.5
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	18.5
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.5



<FR1 n7\_Ant 5\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	Tune-up limit (dBm)
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.99	25.12	24.99	25.7
50	PI/2 BPSK	1	135	25.05	25.14	25.02	
50	PI/2 BPSK	1	268	24.91	25.04	24.89	
50	PI/2 BPSK	135	0	24.59	24.71	24.56	25.2
50	PI/2 BPSK	135	68	25.10	25.24	25.12	25.7
50	PI/2 BPSK	135	135	24.40	24.53	24.37	25.2
50	PI/2 BPSK	270	0	24.34	24.42	24.22	
50	QPSK	1	1	25.21	25.25	25.13	25.7
50	QPSK	1	135	24.91	25.00	24.80	
50	QPSK	1	268	24.76	24.80	24.68	
50	QPSK	135	0	23.98	24.11	23.89	24.7
50	QPSK	135	68	25.06	25.20	25.02	25.7
50	QPSK	135	135	23.89	23.99	23.79	24.7
50	QPSK	270	0	23.81	23.87	23.69	
50	16QAM	1	1	23.49	23.58	23.40	24.7
50	64QAM	1	1	22.04	22.15	21.96	23.2
50	256QAM	1	1	20.72	20.79	20.58	21.2
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	24.94	25.08	24.92	25.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	24.92	25.10	24.93	25.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.95	25.09	24.93	25.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.96	25.06	24.94	25.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.91	25.09	24.96	25.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.93	25.05	24.93	25.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.97	25.10	24.97	25.7



**<FR1 n12\_Ant 0\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.44	24.51	24.48	25.0
15	PI/2 BPSK	1	40	24.33	24.46	24.43	
15	PI/2 BPSK	1	77	24.37	24.43	24.40	
15	PI/2 BPSK	36	0	23.81	23.91	23.86	24.5
15	PI/2 BPSK	36	22	24.30	24.45	24.32	25.0
15	PI/2 BPSK	36	43	23.79	23.91	23.82	24.5
15	PI/2 BPSK	75	0	23.81	23.96	23.87	
15	QPSK	1	1	24.49	24.56	24.55	25.0
15	QPSK	1	40	24.10	24.35	24.15	
15	QPSK	1	77	24.28	24.34	24.31	
15	QPSK	36	0	23.86	23.88	23.87	24.0
15	QPSK	36	22	23.81	23.93	23.88	25.0
15	QPSK	36	43	23.38	23.49	23.43	24.0
15	QPSK	75	0	23.42	23.46	23.44	
15	16QAM	1	1	23.31	23.41	23.38	24.0
15	64QAM	1	1	21.77	21.93	21.83	22.5
	256QAM	1	1	20.32	20.48	20.42	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.36	24.41	24.40	25.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.32	24.39	24.36	25.0



**<FR1 n12\_Ant 1\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.77	22.89	22.82	23.0
15	PI/2 BPSK	1	40	22.72	22.78	22.75	
15	PI/2 BPSK	1	77	22.71	22.80	22.72	
15	PI/2 BPSK	36	0	22.67	22.79	22.68	23.0
15	PI/2 BPSK	36	22	22.73	22.87	22.75	23.0
15	PI/2 BPSK	36	43	22.72	22.79	22.77	23.0
15	PI/2 BPSK	75	0	22.73	22.84	22.81	
15	QPSK	1	1	22.83	22.95	22.88	23.0
15	QPSK	1	40	22.78	22.86	22.80	
15	QPSK	1	77	22.78	22.86	22.79	
15	QPSK	36	0	22.74	22.88	22.78	23.0
15	QPSK	36	22	22.82	22.92	22.85	23.0
15	QPSK	36	43	22.77	22.86	22.82	23.0
15	QPSK	75	0	22.81	22.90	22.86	
15	16QAM	1	1	22.70	22.78	22.77	23.0
15	64QAM	1	1	21.79	21.93	21.87	22.0
	256QAM	1	1	19.74	19.91	19.84	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.66	22.82	22.75	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.68	22.78	22.77	23.0



<FR1 n25\_Ant 2\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	18.57	18.67	18.62	19.5
40	PI/2 BPSK	1	108	18.51	18.65	18.57	
40	PI/2 BPSK	1	214	18.52	18.62	18.55	
40	PI/2 BPSK	108	0	18.51	18.64	18.54	19.5
40	PI/2 BPSK	108	54	18.54	18.66	18.64	19.5
40	PI/2 BPSK	108	108	18.48	18.60	18.56	19.5
40	PI/2 BPSK	216	0	18.51	18.64	18.55	
40	QPSK	1	1	18.64	18.77	18.72	
40	QPSK	1	108	18.56	18.72	18.66	19.5
40	QPSK	1	214	18.57	18.69	18.63	
40	QPSK	108	0	18.56	18.70	18.64	
40	QPSK	108	54	18.63	18.75	18.70	19.5
40	QPSK	108	108	18.58	18.69	18.62	19.5
40	QPSK	216	0	18.60	18.74	18.65	
40	16QAM	1	1	18.49	18.59	18.55	
40	64QAM	1	1	18.52	18.58	18.57	19.5
40	256QAM	1	1	18.53	18.61	18.59	19.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	18.53	18.59	18.60	19.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	18.48	18.57	18.56	19.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	18.47	18.64	18.54	19.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	18.50	18.60	18.62	19.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	18.44	18.60	18.62	19.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	18.46	18.66	18.53	19.5



<FR1 n25\_Ant 3\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.25	17.43	17.22	19.0
40	PI/2 BPSK	1	108	17.17	17.32	17.14	
40	PI/2 BPSK	1	214	17.12	17.32	17.13	
40	PI/2 BPSK	108	0	17.13	17.33	17.16	19.0
40	PI/2 BPSK	108	54	17.18	17.38	17.23	19.0
40	PI/2 BPSK	108	108	17.12	17.28	17.17	19.0
40	PI/2 BPSK	216	0	17.24	17.41	17.20	
40	QPSK	1	1	17.31	17.49	17.29	19.0
40	QPSK	1	108	17.23	17.39	17.22	
40	QPSK	1	214	17.21	17.39	17.19	
40	QPSK	108	0	17.20	17.42	17.21	19.0
40	QPSK	108	54	17.25	17.47	17.28	19.0
40	QPSK	108	108	17.17	17.37	17.22	19.0
40	QPSK	216	0	17.29	17.46	17.28	
40	16QAM	1	1	17.13	17.33	17.13	19.0
40	64QAM	1	1	17.15	17.36	17.11	19.0
40	256QAM	1	1	17.12	17.36	17.12	19.0
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.19	17.29	17.11	19.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.11	17.33	17.09	19.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.14	17.29	17.10	19.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.15	17.31	17.17	19.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.21	17.38	17.16	19.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.21	17.37	17.13	19.0





<FR1 n25\_Ant 4\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	19.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	17.35	17.42	17.39	19.0
40	PI/2 BPSK	1	108	17.29	17.34	17.37	
40	PI/2 BPSK	1	214	17.29	17.37	17.30	
40	PI/2 BPSK	108	0	17.24	17.28	17.28	19.0
40	PI/2 BPSK	108	54	17.32	17.40	17.34	19.0
40	PI/2 BPSK	108	108	17.25	17.29	17.29	19.0
40	PI/2 BPSK	216	0	17.28	17.33	17.36	
40	QPSK	1	1	17.43	17.51	17.49	19.0
40	QPSK	1	108	17.34	17.43	17.42	
40	QPSK	1	214	17.36	17.46	17.40	
40	QPSK	108	0	17.34	17.36	17.38	19.0
40	QPSK	108	54	17.40	17.46	17.43	19.0
40	QPSK	108	108	17.34	17.36	17.38	19.0
40	QPSK	216	0	17.36	17.43	17.46	
40	16QAM	1	1	17.23	17.41	17.31	19.0
40	64QAM	1	1	17.32	17.32	17.36	19.0
40	256QAM	1	1	17.32	17.33	17.38	19.0
Channel				373000	376500	380000	19.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	17.32	17.37	17.29	19.0
Channel				372500	376500	380500	19.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	17.23	17.33	17.39	19.0
Channel				372000	376500	381000	19.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	17.23	17.31	17.32	19.0
Channel				371500	376500	381500	19.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	17.23	17.41	17.34	19.0
Channel				371000	376500	382000	19.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	17.30	17.36	17.33	19.0
Channel				370500	376500	382500	19.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	17.24	17.35	17.33	19.0



<FR1 n25\_Ant 5\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.07	23.17	23.09	25.0
40	PI/2 BPSK	1	108	23.14	23.31	23.21	
40	PI/2 BPSK	1	214	23.08	23.22	23.18	
40	PI/2 BPSK	108	0	22.57	22.78	22.75	24.5
40	PI/2 BPSK	108	54	23.09	23.18	23.13	25.0
40	PI/2 BPSK	108	108	22.53	22.75	22.65	24.5
40	PI/2 BPSK	216	0	22.70	22.85	22.82	
40	QPSK	1	1	23.27	23.41	23.40	25.0
40	QPSK	1	108	23.07	23.23	23.14	
40	QPSK	1	214	23.06	23.09	23.08	
40	QPSK	108	0	22.07	22.26	22.21	24.0
40	QPSK	108	54	23.04	23.22	23.14	25.0
40	QPSK	108	108	22.09	22.16	22.08	24.0
40	QPSK	216	0	22.16	22.33	22.29	
40	16QAM	1	1	22.02	22.12	22.11	24.0
40	64QAM	1	1	20.50	20.57	20.50	22.5
40	256QAM	1	1	18.74	18.95	18.84	20.5
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.04	23.12	23.07	25.0
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.02	23.13	23.04	25.0
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.05	23.13	23.05	25.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.04	23.14	23.03	25.0
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.01	23.14	23.07	25.0
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.05	23.13	23.07	25.0



<FR1 n26\_Ant 0\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	Tune-up limit (dBm)
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.10	25.25	24.98	25.7
20	PI/2 BPSK	1	53	25.11	25.23	25.00	
20	PI/2 BPSK	1	104	25.08	25.21	24.94	
20	PI/2 BPSK	50	0	24.52	24.65	24.37	25.2
20	PI/2 BPSK	50	28	25.07	25.19	24.97	25.7
20	PI/2 BPSK	50	56	24.58	24.68	24.43	25.2
20	PI/2 BPSK	100	0	24.52	24.66	24.40	
20	QPSK	1	1	25.35	25.45	25.31	25.7
20	QPSK	1	53	25.21	25.36	25.16	
20	QPSK	1	104	25.16	25.35	25.13	
20	QPSK	50	0	24.62	24.69	24.59	24.7
20	QPSK	50	28	25.19	25.31	25.12	25.7
20	QPSK	50	56	24.07	24.21	23.99	24.7
20	QPSK	100	0	24.20	24.25	24.21	
20	16QAM	1	1	23.49	23.69	23.46	24.7
20	64QAM	1	1	21.98	22.16	21.95	23.2
20	256QAM	1	1	20.54	20.67	20.53	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.21	24.98	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.00	25.14	24.94	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.03	25.21	25.01	25.7



<FR1 n26\_Ant 1\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	20.53	20.71	20.51	21.0
20	PI/2 BPSK	1	53	20.36	20.60	20.43	
20	PI/2 BPSK	1	104	20.38	20.55	20.55	
20	PI/2 BPSK	50	0	20.41	20.59	20.47	21.0
20	PI/2 BPSK	50	28	20.46	20.70	20.52	21.0
20	PI/2 BPSK	50	56	20.48	20.52	20.50	21.0
20	PI/2 BPSK	100	0	20.49	20.61	20.50	
20	QPSK	1	1	20.56	20.75	20.56	21.0
20	QPSK	1	53	20.48	20.59	20.52	
20	QPSK	1	104	20.54	20.62	20.60	
20	QPSK	50	0	20.49	20.65	20.51	21.0
20	QPSK	50	28	20.51	20.70	20.55	21.0
20	QPSK	50	56	20.52	20.61	20.53	21.0
20	QPSK	100	0	20.59	20.74	20.61	
20	16QAM	1	1	20.42	20.62	20.47	21.0
20	64QAM	1	1	20.37	20.56	20.52	21.0
20	256QAM	1	1	20.47	20.58	20.47	21.0
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	20.43	20.55	20.36	21.0
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	20.46	20.56	20.41	21.0
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	20.46	20.63	20.43	21.0



<FR1 n66\_Ant 2\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.49	19.52	19.51	20.0
40	PI/2 BPSK	1	108	19.39	19.47	19.44	
40	PI/2 BPSK	1	214	19.37	19.50	19.43	
40	PI/2 BPSK	108	0	19.41	19.46	19.44	20.0
40	PI/2 BPSK	108	54	19.44	19.48	19.49	20.0
40	PI/2 BPSK	108	108	19.39	19.42	19.44	20.0
40	PI/2 BPSK	216	0	19.41	19.53	19.44	
40	QPSK	1	1	19.54	19.61	19.59	20.0
40	QPSK	1	108	19.45	19.54	19.49	
40	QPSK	1	214	19.44	19.56	19.53	
40	QPSK	108	0	19.46	19.53	19.52	20.0
40	QPSK	108	54	19.52	19.58	19.57	20.0
40	QPSK	108	108	19.44	19.52	19.51	20.0
40	QPSK	216	0	19.50	19.59	19.54	
40	16QAM	1	1	19.43	19.42	19.45	20.0
40	64QAM	1	1	19.41	19.51	19.39	20.0
40	256QAM	1	1	19.43	19.45	19.40	20.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.39	19.51	19.47	20.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.37	19.42	19.48	20.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.35	19.48	19.46	20.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.39	19.50	19.41	20.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.38	19.44	19.46	20.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.43	19.49	19.47	20.0



<FR1 n66\_Ant 2\_DSI 1\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.44	17.57	17.49	18.5
40	PI/2 BPSK	1	108	17.33	17.48	17.42	
40	PI/2 BPSK	1	214	17.35	17.46	17.43	
40	PI/2 BPSK	108	0	17.39	17.48	17.38	18.5
40	PI/2 BPSK	108	54	17.37	17.51	17.42	18.5
40	PI/2 BPSK	108	108	17.36	17.46	17.38	18.5
40	PI/2 BPSK	216	0	17.39	17.52	17.45	
40	QPSK	1	1	17.51	17.63	17.55	
40	QPSK	1	108	17.42	17.58	17.48	18.5
40	QPSK	1	214	17.41	17.56	17.50	
40	QPSK	108	0	17.46	17.54	17.45	
40	QPSK	108	54	17.44	17.58	17.49	18.5
40	QPSK	108	108	17.41	17.54	17.47	18.5
40	QPSK	216	0	17.46	17.60	17.51	
40	16QAM	1	1	17.40	17.45	17.40	
40	64QAM	1	1	17.33	17.46	17.43	18.5
40	256QAM	1	1	17.35	17.47	17.35	18.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	17.34	17.53	17.41	18.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.38	17.43	17.45	18.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.37	17.52	17.42	18.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.32	17.47	17.42	18.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.35	17.46	17.38	18.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.41	17.45	17.42	18.5



<FR1 n66\_Ant 3\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	16.76	16.97	16.80	18.0
40	PI/2 BPSK	1	108	16.68	16.83	16.69	
40	PI/2 BPSK	1	214	16.67	16.78	16.77	
40	PI/2 BPSK	108	0	16.67	16.83	16.69	18.0
40	PI/2 BPSK	108	54	16.86	16.86	16.83	18.0
40	PI/2 BPSK	108	108	16.72	16.82	16.70	18.0
40	PI/2 BPSK	216	0	16.70	16.87	16.72	
40	QPSK	1	1	16.89	17.07	16.97	
40	QPSK	1	108	16.80	17.00	16.88	18.0
40	QPSK	1	214	16.82	16.98	16.92	
40	QPSK	108	0	16.87	17.01	16.88	
40	QPSK	108	54	16.96	17.05	16.93	18.0
40	QPSK	108	108	16.91	16.97	16.83	18.0
40	QPSK	216	0	16.85	16.97	16.90	
40	16QAM	1	1	16.72	16.95	16.85	
40	64QAM	1	1	16.75	16.94	16.81	18.0
40	256QAM	1	1	16.74	16.91	16.85	18.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	16.79	16.93	16.77	18.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	16.76	16.92	16.87	18.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	16.78	16.92	16.87	18.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	16.78	16.94	16.83	18.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	16.78	16.88	16.85	18.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	16.72	16.95	16.84	18.0



<FR1 n66\_Ant 3\_DSI 1\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	17.35	17.35	17.26	18.5
40	PI/2 BPSK	1	108	17.28	17.32	17.21	
40	PI/2 BPSK	1	214	17.24	17.27	17.21	
40	PI/2 BPSK	108	0	17.25	17.26	17.23	18.5
40	PI/2 BPSK	108	54	17.31	17.32	17.25	18.5
40	PI/2 BPSK	108	108	17.25	17.29	17.20	18.5
40	PI/2 BPSK	216	0	17.33	17.30	17.30	
40	QPSK	1	1	17.41	17.44	17.36	18.5
40	QPSK	1	108	17.34	17.37	17.26	
40	QPSK	1	214	17.33	17.34	17.30	
40	QPSK	108	0	17.33	17.36	17.31	18.5
40	QPSK	108	54	17.39	17.41	17.32	18.5
40	QPSK	108	108	17.31	17.34	17.29	18.5
40	QPSK	216	0	17.38	17.39	17.35	
40	16QAM	1	1	17.21	17.33	17.26	18.5
40	64QAM	1	1	17.21	17.34	17.25	18.5
40	256QAM	1	1	17.21	17.33	17.19	18.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	17.22	17.26	17.21	18.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	17.31	17.30	17.20	18.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	17.22	17.24	17.19	18.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	17.25	17.25	17.16	18.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	17.21	17.33	17.19	18.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	17.22	17.34	17.20	18.5





<FR1 n66\_Ant 4\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.97	22.15	21.99	23.5
40	PI/2 BPSK	1	108	21.91	22.12	21.93	
40	PI/2 BPSK	1	214	21.83	22.18	21.88	
40	PI/2 BPSK	108	0	21.06	21.77	21.10	23.0
40	PI/2 BPSK	108	54	22.05	22.12	22.03	23.5
40	PI/2 BPSK	108	108	21.13	21.76	21.16	23.0
40	PI/2 BPSK	216	0	21.19	21.86	21.22	
40	QPSK	1	1	22.07	22.21	22.09	23.5
40	QPSK	1	108	21.97	22.11	21.99	
40	QPSK	1	214	21.89	22.04	21.93	
40	QPSK	108	0	21.15	21.25	21.16	22.5
40	QPSK	108	54	22.11	22.14	22.12	23.5
40	QPSK	108	108	21.19	21.23	21.21	22.5
40	QPSK	216	0	21.29	21.33	21.30	
40	16QAM	1	1	21.01	21.13	20.94	22.5
40	64QAM	1	1	19.57	19.67	19.47	21.0
40	256QAM	1	1	18.16	18.33	18.16	19.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.94	22.09	21.97	23.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.96	22.07	21.98	23.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.87	22.05	21.95	23.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.87	22.11	21.93	23.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.93	22.11	21.90	23.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.89	22.10	21.91	23.5



<FR1 n66\_Ant 4\_DSI 1\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.70	22.78	22.70	24.5
40	PI/2 BPSK	1	108	22.85	22.91	22.84	
40	PI/2 BPSK	1	214	22.67	22.74	22.68	
40	PI/2 BPSK	108	0	22.13	22.15	22.05	24.0
40	PI/2 BPSK	108	54	22.78	22.83	22.78	24.5
40	PI/2 BPSK	108	108	22.06	22.09	22.05	24.0
40	PI/2 BPSK	216	0	21.97	22.02	21.89	
40	QPSK	1	1	22.92	22.93	22.90	24.5
40	QPSK	1	108	22.80	22.81	22.72	
40	QPSK	1	214	22.63	22.71	22.66	
40	QPSK	108	0	21.65	21.66	21.57	23.5
40	QPSK	108	54	22.64	22.68	22.57	24.5
40	QPSK	108	108	21.61	21.68	21.65	23.5
40	QPSK	216	0	21.54	21.57	21.55	
40	16QAM	1	1	22.67	22.75	22.70	23.5
40	64QAM	1	1	20.39	20.43	20.34	22.0
40	256QAM	1	1	18.56	18.57	18.47	20.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.67	22.69	22.63	24.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.66	22.74	22.66	24.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.67	22.71	22.65	24.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.67	22.71	22.61	24.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.63	22.73	22.63	24.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.65	22.70	22.63	24.5



<FR1 n66\_Ant 5\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.46	23.68	23.65	25.0
40	PI/2 BPSK	1	108	23.48	23.70	23.66	
40	PI/2 BPSK	1	214	23.50	23.71	23.69	
40	PI/2 BPSK	108	0	23.25	23.44	23.39	24.5
40	PI/2 BPSK	108	54	23.51	23.68	23.60	25.0
40	PI/2 BPSK	108	108	23.26	23.42	23.31	24.5
40	PI/2 BPSK	216	0	23.36	23.56	23.55	
40	QPSK	1	1	23.80	23.94	23.93	
40	QPSK	1	108	23.50	23.70	23.61	25.0
40	QPSK	1	214	23.55	23.76	23.69	
40	QPSK	108	0	22.73	22.90	22.83	
40	QPSK	108	54	23.59	23.79	23.75	25.0
40	QPSK	108	108	22.67	22.89	22.78	24.0
40	QPSK	216	0	22.68	22.90	22.86	
40	16QAM	1	1	22.50	22.74	22.66	
40	64QAM	1	1	22.04	22.26	22.18	22.5
40	256QAM	1	1	19.80	20.00	19.97	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.37	23.62	23.60	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.40	23.64	23.61	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.37	23.59	23.60	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.43	23.59	23.57	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.38	23.65	23.59	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.37	23.62	23.59	25.0



**<FR1 n66\_Ant 5\_DSI 1\_Other PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	25.0
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.91	24.16	23.98	25.0
40	PI/2 BPSK	1	108	23.98	24.18	23.99	
40	PI/2 BPSK	1	214	23.64	23.93	23.73	
40	PI/2 BPSK	108	0	23.35	23.55	23.32	24.5
40	PI/2 BPSK	108	54	23.93	24.13	23.90	25.0
40	PI/2 BPSK	108	108	23.17	23.43	23.18	24.5
40	PI/2 BPSK	216	0	23.03	23.32	23.14	
40	QPSK	1	1	24.25	24.45	24.27	25.0
40	QPSK	1	108	23.88	24.18	23.91	
40	QPSK	1	214	23.62	23.91	23.71	
40	QPSK	108	0	22.74	23.02	22.82	24.0
40	QPSK	108	54	24.13	24.38	24.10	25.0
40	QPSK	108	108	22.71	22.93	22.68	24.0
40	QPSK	216	0	22.76	22.96	22.70	
40	16QAM	1	1	22.98	23.25	23.03	24.0
40	64QAM	1	1	20.93	21.20	21.01	22.5
40	256QAM	1	1	19.73	19.95	19.75	20.5
Channel				345000	349000	353000	25.0
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.81	24.10	23.88	25.0
Channel				344500	349000	353500	25.0
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.81	24.07	23.90	25.0
Channel				344000	349000	354000	25.0
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.86	24.11	23.90	25.0
Channel				343500	349000	354500	25.0
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.86	24.11	23.94	25.0
Channel				343000	349000	355000	25.0
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.86	24.10	23.90	25.0
Channel				342500	349000	355500	25.0
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.82	24.13	23.88	25.0

**<FR1 n38\_Ant 2\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)
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				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.34	16.40	16.22	16.7
40	PI/2 BPSK	1	53	16.25	16.26	16.16	
40	PI/2 BPSK	1	104	16.34	16.36	16.13	
40	PI/2 BPSK	50	0	16.31	16.31	16.17	16.7
40	PI/2 BPSK	50	28	16.35	16.39	16.20	16.7
40	PI/2 BPSK	50	56	16.33	16.31	16.20	16.7
40	PI/2 BPSK	100	0	16.30	16.36	16.16	
40	QPSK	1	1	16.44	16.46	16.31	16.7
40	QPSK	1	53	16.35	16.36	16.22	
40	QPSK	1	104	16.39	16.41	16.23	
40	QPSK	50	0	16.39	16.39	16.25	16.7
40	QPSK	50	28	16.43	16.45	16.28	16.7
40	QPSK	50	56	16.38	16.36	16.25	16.7
40	QPSK	100	0	16.40	16.44	16.24	
40	16QAM	1	1	16.25	16.28	16.19	16.7
40	64QAM	1	1	16.32	16.26	16.21	16.7
40	256QAM	1	1	16.32	16.36	16.21	16.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.29	16.36	16.13	16.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.34	16.30	16.11	16.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.27	16.36	16.18	16.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.24	16.26	16.15	16.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.30	16.36	16.18	16.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	16.29	16.29	16.19	16.7



<FR1 n38\_Ant 3\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.68	16.73	16.61	17.7
40	PI/2 BPSK	1	53	16.58	16.66	16.51	
40	PI/2 BPSK	1	104	16.62	16.67	16.53	
40	PI/2 BPSK	50	0	16.51	16.73	16.51	17.7
40	PI/2 BPSK	50	28	16.58	16.77	16.62	17.7
40	PI/2 BPSK	50	56	16.49	16.61	16.53	17.7
40	PI/2 BPSK	100	0	16.60	16.69	16.55	
40	QPSK	1	1	16.81	16.91	16.79	17.7
40	QPSK	1	53	16.73	16.86	16.70	
40	QPSK	1	104	16.75	16.86	16.69	
40	QPSK	50	0	16.67	16.83	16.69	17.7
40	QPSK	50	28	16.74	16.88	16.74	17.7
40	QPSK	50	56	16.65	16.81	16.67	17.7
40	QPSK	100	0	16.71	16.82	16.72	
40	16QAM	1	1	16.63	16.78	16.62	17.7
40	64QAM	1	1	16.67	16.74	16.63	17.7
40	256QAM	1	1	16.67	16.81	16.66	17.7
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.66	16.75	16.66	17.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.69	16.79	16.68	17.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.64	16.81	16.69	17.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.63	16.77	16.69	17.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.65	16.78	16.66	17.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	16.63	16.78	16.61	17.7



**<FR1 n38\_Ant 4\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	16.95	17.01	16.98	18.5
40	PI/2 BPSK	1	53	16.91	16.97	16.93	
40	PI/2 BPSK	1	104	16.86	16.93	16.94	
40	PI/2 BPSK	50	0	16.80	16.92	16.91	18.5
40	PI/2 BPSK	50	28	16.85	16.99	16.94	18.5
40	PI/2 BPSK	50	56	16.77	16.90	16.89	18.5
40	PI/2 BPSK	100	0	16.91	16.98	16.94	
40	QPSK	1	1	17.03	17.11	17.08	18.5
40	QPSK	1	53	16.97	17.03	17.03	
40	QPSK	1	104	16.96	17.01	17.03	
40	QPSK	50	0	16.85	16.97	16.98	18.5
40	QPSK	50	28	16.95	17.05	17.04	18.5
40	QPSK	50	56	16.85	16.97	16.94	18.5
40	QPSK	100	0	16.99	17.05	17.04	
40	16QAM	1	1	16.83	16.99	16.89	18.5
40	64QAM	1	1	16.83	16.94	16.96	18.5
40	256QAM	1	1	16.86	16.99	16.91	18.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	16.90	16.98	16.93	18.5
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	16.84	16.96	16.92	18.5
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	16.90	16.95	16.94	18.5
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	16.88	16.97	16.93	18.5
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	16.83	16.96	16.88	18.5
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	16.87	16.95	16.90	18.5



<FR1 n38\_Ant 5\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.63	24.84	24.70	25.7
40	PI/2 BPSK	1	53	24.74	24.87	24.71	
40	PI/2 BPSK	1	104	24.70	24.88	24.68	
40	PI/2 BPSK	50	0	24.19	24.33	24.18	25.2
40	PI/2 BPSK	50	28	24.60	24.74	24.53	25.7
40	PI/2 BPSK	50	56	24.55	24.77	24.62	25.2
40	PI/2 BPSK	100	0	23.95	24.18	24.04	
40	QPSK	1	1	24.77	24.90	24.76	25.7
40	QPSK	1	53	24.60	24.76	24.61	
40	QPSK	1	104	24.48	24.70	24.51	
40	QPSK	50	0	23.59	23.80	23.60	24.7
40	QPSK	50	28	24.39	24.59	24.38	25.7
40	QPSK	50	56	24.34	24.54	24.38	24.7
40	QPSK	100	0	24.14	24.33	24.15	
40	16QAM	1	1	24.30	24.45	24.30	24.7
40	64QAM	1	1	22.09	22.24	22.03	23.2
40	256QAM	1	1	20.46	20.69	20.45	21.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.59	24.74	24.61	25.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	24.53	24.74	24.67	25.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.56	24.74	24.67	25.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.59	24.81	24.62	25.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.58	24.76	24.62	25.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	24.59	24.75	24.64	25.7





<FR1 n41\_Ant 2\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	16.16	16.24	16.20	16.5
100	PI/2 BPSK	1	137	16.04	16.18	16.11	
100	PI/2 BPSK	1	271	16.03	16.24	16.15	
100	PI/2 BPSK	135	0	16.06	16.24	16.13	16.5
100	PI/2 BPSK	135	69	16.13	16.24	16.24	16.5
100	PI/2 BPSK	135	138	16.06	16.24	16.11	16.5
100	PI/2 BPSK	270	0	16.13	16.22	16.16	
100	QPSK	1	1	16.21	16.34	16.28	16.5
100	QPSK	1	137	16.14	16.26	16.19	
100	QPSK	1	271	16.12	16.29	16.21	
100	QPSK	135	0	16.13	16.29	16.18	16.5
100	QPSK	135	69	16.19	16.33	16.31	16.5
100	QPSK	135	138	16.15	16.29	16.18	16.5
100	QPSK	270	0	16.18	16.29	16.25	
100	16QAM	1	1	16.11	16.14	16.13	16.5
100	64QAM	1	1	16.05	16.14	16.09	16.5
100	256QAM	1	1	16.04	16.21	16.11	16.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	16.05	16.21	16.18	16.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	16.05	16.14	16.08	16.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	16.01	16.18	16.12	16.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	16.07	16.24	16.10	16.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	16.06	16.22	16.13	16.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	16.11	16.15	16.16	16.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	16.06	16.22	16.13	16.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	16.03	16.19	16.09	16.5

<FR1 n41\_Ant 3\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	15.97	16.09	15.98	17.0
100	PI/2 BPSK	1	137	15.91	15.99	15.91	



100	PI/2 BPSK	1	271	15.85	15.99	15.93	
100	PI/2 BPSK	135	0	15.86	15.94	15.91	17.0
100	PI/2 BPSK	135	69	15.91	16.03	15.95	17.0
100	PI/2 BPSK	135	138	15.86	15.96	15.92	17.0
100	PI/2 BPSK	270	0	15.93	16.00	15.95	
100	QPSK	1	1	16.02	16.14	16.08	
100	QPSK	1	137	15.96	16.07	16.01	17.0
100	QPSK	1	271	15.93	16.09	16.02	
100	QPSK	135	0	15.91	16.03	16.00	17.0
100	QPSK	135	69	16.01	16.11	16.05	17.0
100	QPSK	135	138	15.91	16.03	16.00	17.0
100	QPSK	270	0	16.01	16.10	16.04	
100	16QAM	1	1	15.91	16.01	15.95	17.0
100	64QAM	1	1	15.82	15.94	15.95	17.0
100	256QAM	1	1	15.90	15.94	15.95	17.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	15.90	16.01	15.94	17.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	15.84	16.01	15.91	17.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	15.89	15.96	15.92	17.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	15.88	15.95	15.94	17.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	15.87	16.03	15.90	17.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	15.92	15.95	15.94	17.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	15.82	15.96	15.93	17.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	15.83	16.03	15.92	17.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	15.92	16.04	15.93	17.0

<FR1 n41\_Ant 4\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	14.90	14.93	14.79	16.0
100	PI/2 BPSK	1	137	14.83	14.89	14.70	
100	PI/2 BPSK	1	271	14.82	14.86	14.76	
100	PI/2 BPSK	135	0	14.74	14.74	14.66	16.0
100	PI/2 BPSK	135	69	14.82	14.82	14.71	16.0
100	PI/2 BPSK	135	138	14.70	14.74	14.67	16.0
100	PI/2 BPSK	270	0	14.83	14.87	14.70	
100	QPSK	1	1	14.97	15.00	14.89	16.0
100	QPSK	1	137	14.91	14.95	14.80	



100	QPSK	1	271	14.91	14.94	14.84	
100	QPSK	135	0	14.81	14.83	14.75	16.0
100	QPSK	135	69	14.89	14.92	14.81	16.0
100	QPSK	135	138	14.79	14.83	14.74	16.0
100	QPSK	270	0	14.90	14.94	14.80	
100	16QAM	1	1	14.81	14.87	14.72	16.0
100	64QAM	1	1	14.84	14.86	14.75	16.0
100	256QAM	1	1	14.81	14.90	14.74	16.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	14.78	14.90	14.79	16.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	14.85	14.85	14.72	16.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	14.83	14.84	14.69	16.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	14.77	14.82	14.73	16.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	14.86	14.81	14.70	16.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	14.85	14.90	14.75	16.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	14.80	14.85	14.69	16.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	14.86	14.87	14.76	16.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	14.80	14.89	14.71	16.0

<FR1 n41\_Ant 5\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.21	23.33	23.17	24.0
100	PI/2 BPSK	1	137	23.27	23.30	23.21	
100	PI/2 BPSK	1	271	23.03	23.10	23.03	
100	PI/2 BPSK	135	0	23.22	23.27	23.13	23.5
100	PI/2 BPSK	135	69	23.28	23.40	23.27	24.0
100	PI/2 BPSK	135	138	23.11	23.24	23.14	23.5
100	PI/2 BPSK	270	0	23.11	23.14	23.01	
100	QPSK	1	1	23.45	23.48	23.42	24.0
100	QPSK	1	137	23.26	23.32	23.17	
100	QPSK	1	271	23.02	23.05	22.97	
100	QPSK	135	0	22.90	22.95	22.88	23.0
100	QPSK	135	69	23.37	23.44	23.37	24.0
100	QPSK	135	138	22.90	22.96	22.85	23.0
100	QPSK	270	0	22.90	22.94	22.79	
100	16QAM	1	1	22.85	22.96	22.87	23.0
100	64QAM	1	1	21.35	21.44	21.37	21.5



100	256QAM	1	1	19.34	19.40	19.31	19.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.09	23.30	23.07	24.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.10	23.28	23.15	24.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.17	23.28	23.08	24.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.14	23.25	23.09	24.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.11	23.30	23.14	24.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.17	23.22	23.10	24.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.15	23.24	23.05	24.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.10	23.25	23.05	24.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.10	23.28	23.11	24.0

**<FR1 n41\_HPUE\_Ant 2\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.11	19.29	19.20	19.5
100	PI/2 BPSK	1	137	19.00	19.19	19.08	
100	PI/2 BPSK	1	271	19.05	19.24	19.10	
100	PI/2 BPSK	135	0	19.13	19.28	19.12	19.5
100	PI/2 BPSK	135	69	19.09	19.31	19.14	19.5
100	PI/2 BPSK	135	138	19.01	19.17	19.10	19.5
100	PI/2 BPSK	270	0	19.11	19.25	19.13	
100	QPSK	1	1	19.20	19.37	19.25	19.5
100	QPSK	1	137	19.10	19.28	19.18	
100	QPSK	1	271	19.11	19.31	19.18	
100	QPSK	135	0	19.18	19.35	19.22	19.5
100	QPSK	135	69	19.19	19.36	19.23	19.5
100	QPSK	135	138	19.11	19.27	19.18	19.5
100	QPSK	270	0	19.18	19.35	19.22	
100	16QAM	1	1	19.10	19.27	19.14	19.5
100	64QAM	1	1	19.06	19.21	19.05	19.5
100	256QAM	1	1	19.00	19.22	19.05	19.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.07	19.22	19.12	19.5
Channel				507204	518598	529998	Tune-up limit



Frequency (MHz)				2536.02	2592.99	2649.99	(dBm)
80	PI/2 BPSK	1	1	19.05	19.27	19.09	19.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.04	19.23	19.11	19.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.07	19.23	19.08	19.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.03	19.17	19.12	19.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.10	19.20	19.08	19.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.03	19.21	19.11	19.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.09	19.26	19.07	19.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.09	19.23	19.15	19.5

**<FR1 n41\_HPUE\_Ant 3\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	20.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	18.90	18.98	18.86	20.0
100	PI/2 BPSK	1	137	18.78	18.94	18.76	
100	PI/2 BPSK	1	271	18.76	18.89	18.78	
100	PI/2 BPSK	135	0	18.80	18.91	18.76	20.0
100	PI/2 BPSK	135	69	18.86	18.96	18.78	20.0
100	PI/2 BPSK	135	138	18.77	18.90	18.72	20.0
100	PI/2 BPSK	270	0	18.85	18.96	18.76	
100	QPSK	1	1	18.96	19.06	18.91	20.0
100	QPSK	1	137	18.87	18.99	18.84	
100	QPSK	1	271	18.86	18.99	18.84	
100	QPSK	135	0	18.86	18.98	18.85	20.0
100	QPSK	135	69	18.94	19.05	18.88	20.0
100	QPSK	135	138	18.86	18.97	18.81	20.0
100	QPSK	270	0	18.92	19.05	18.84	
100	16QAM	1	1	18.83	18.96	18.75	20.0
100	64QAM	1	1	18.77	18.89	18.81	20.0
100	256QAM	1	1	18.81	18.91	18.75	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	18.82	18.90	18.78	20.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	18.76	18.90	18.79	20.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	18.82	18.91	18.71	20.0



Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	18.80	18.86	18.78	20.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	18.84	18.91	18.81	20.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	18.77	18.90	18.81	20.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	18.86	18.95	18.73	20.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	18.85	18.95	18.77	20.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	18.76	18.94	18.76	20.0

<FR1 n41\_HPUE\_Ant 4\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	17.69	17.73	17.65	19.0
100	PI/2 BPSK	1	137	17.61	17.67	17.55	
100	PI/2 BPSK	1	271	17.64	17.68	17.55	
100	PI/2 BPSK	135	0	17.58	17.61	17.58	19.0
100	PI/2 BPSK	135	69	17.68	17.70	17.64	19.0
100	PI/2 BPSK	135	138	17.59	17.63	17.56	19.0
100	PI/2 BPSK	270	0	17.65	17.75	17.56	
100	QPSK	1	1	17.76	17.81	17.74	19.0
100	QPSK	1	137	17.67	17.76	17.65	
100	QPSK	1	271	17.69	17.74	17.65	
100	QPSK	135	0	17.67	17.70	17.63	19.0
100	QPSK	135	69	17.74	17.79	17.71	19.0
100	QPSK	135	138	17.68	17.73	17.65	19.0
100	QPSK	270	0	17.70	17.80	17.65	
100	16QAM	1	1	17.58	17.63	17.59	19.0
100	64QAM	1	1	17.61	17.70	17.57	19.0
100	256QAM	1	1	17.56	17.67	17.57	19.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	17.56	17.68	17.58	19.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	17.64	17.71	17.60	19.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	17.58	17.70	17.61	19.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	17.63	17.65	17.61	19.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	



40	PI/2 BPSK	1	1	17.58	17.69	17.61	19.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	17.60	17.66	17.59	19.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	17.57	17.69	17.54	19.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	17.60	17.65	17.63	19.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	17.59	17.70	17.57	19.0

**<FR1 n41\_HPUE\_Ant 5\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.11	26.18	26.00	27.0
100	PI/2 BPSK	1	137	26.01	26.10	25.94	
100	PI/2 BPSK	1	271	26.01	26.06	25.91	
100	PI/2 BPSK	135	0	25.78	25.83	25.66	26.5
100	PI/2 BPSK	135	69	25.95	26.08	25.84	27.0
100	PI/2 BPSK	135	138	25.54	25.62	25.46	26.5
100	PI/2 BPSK	270	0	25.65	25.69	25.47	
100	QPSK	1	1	26.29	26.32	26.18	27.0
100	QPSK	1	137	26.14	26.18	25.99	
100	QPSK	1	271	25.94	25.97	25.82	
100	QPSK	135	0	24.81	24.91	24.71	26.0
100	QPSK	135	69	26.28	26.33	26.19	27.0
100	QPSK	135	138	25.06	25.11	24.89	26.0
100	QPSK	270	0	25.09	25.16	24.92	
100	16QAM	1	1	25.09	25.16	25.01	26.0
100	64QAM	1	1	23.78	23.81	23.65	24.5
100	256QAM	1	1	22.08	22.18	22.00	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.04	26.13	25.95	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.01	26.13	25.96	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.04	26.11	25.94	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.02	26.09	25.92	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.03	26.12	25.97	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.04	26.09	25.94	27.0
Channel				501204	518598	535998	Tune-up limit



Frequency (MHz)				2506.02	2592.99	2679.99	(dBm)
20	PI/2 BPSK	1	1	26.05	26.10	25.94	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.02	26.11	25.97	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.03	26.08	25.92	27.0

**<FR1 n48\_Ant 6\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	13.60	13.69	13.61	14.0
40	PI/2 BPSK	1	53	13.45	13.48	13.50	
40	PI/2 BPSK	1	104	13.52	13.57	13.36	
40	PI/2 BPSK	50	0	13.41	13.52	13.46	14.0
40	PI/2 BPSK	50	28	13.60	13.60	13.56	14.0
40	PI/2 BPSK	50	56	13.44	13.47	13.38	14.0
40	PI/2 BPSK	100	0	13.59	13.64	13.58	
40	QPSK	1	1	13.76	13.79	13.71	14.0
40	QPSK	1	53	13.62	13.59	13.60	
40	QPSK	1	104	13.63	13.67	13.52	
40	QPSK	50	0	13.57	13.65	13.59	14.0
40	QPSK	50	28	13.74	13.78	13.66	14.0
40	QPSK	50	56	13.56	13.63	13.57	14.0
40	QPSK	100	0	13.75	13.77	13.69	
40	16QAM	1	1	13.59	13.63	13.52	14.0
40	64QAM	1	1	13.58	13.66	13.60	14.0
40	256QAM	1	1	13.63	13.60	13.56	14.0
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	13.60	13.67	13.56	14.0
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	13.59	13.65	13.52	14.0
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	13.66	13.67	13.54	14.0





<FR1 n48\_Ant 7\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	14.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	14.15	14.24	14.18	14.5
40	PI/2 BPSK	1	53	14.00	14.16	14.07	
40	PI/2 BPSK	1	104	14.01	14.12	14.10	
40	PI/2 BPSK	50	0	13.97	14.10	14.10	14.5
40	PI/2 BPSK	50	28	14.10	14.22	14.15	14.5
40	PI/2 BPSK	50	56	13.99	14.09	14.08	14.5
40	PI/2 BPSK	100	0	14.11	14.19	14.11	
40	QPSK	1	1	14.22	14.32	14.28	14.5
40	QPSK	1	53	14.08	14.21	14.14	
40	QPSK	1	104	14.08	14.22	14.18	
40	QPSK	50	0	14.04	14.18	14.18	14.5
40	QPSK	50	28	14.16	14.27	14.22	14.5
40	QPSK	50	56	14.07	14.19	14.15	14.5
40	QPSK	100	0	14.16	14.24	14.21	
40	16QAM	1	1	14.11	14.19	14.17	14.5
40	64QAM	1	1	14.08	14.13	14.15	14.5
40	256QAM	1	1	14.09	14.19	14.13	14.5
Channel				637334	641666	646000	14.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	14.11	14.15	14.08	14.5
Channel				637168	641666	646166	14.5
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	14.11	14.20	14.12	14.5
Channel				637000	641666	646332	14.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	14.10	14.17	14.14	14.5



<FR1 n48\_Ant 8\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	22.5
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.01	22.18	21.97	
40	PI/2 BPSK	1	53	22.14	22.21	21.98	22.0
40	PI/2 BPSK	1	104	22.04	22.21	22.03	
40	PI/2 BPSK	50	0	21.87	21.97	21.81	
40	PI/2 BPSK	50	28	22.09	22.21	22.04	22.0
40	PI/2 BPSK	50	56	21.81	21.98	21.79	
40	PI/2 BPSK	100	0	21.85	21.97	21.83	
40	QPSK	1	1	22.18	22.25	22.11	22.5
40	QPSK	1	53	21.99	22.15	21.91	
40	QPSK	1	104	21.97	22.14	21.90	
40	QPSK	50	0	21.34	21.49	21.29	21.5
40	QPSK	50	28	22.13	22.23	22.02	22.5
40	QPSK	50	56	21.34	21.46	21.28	21.5
40	QPSK	100	0	21.37	21.45	21.22	
40	16QAM	1	1	20.97	21.11	20.91	
40	64QAM	1	1	19.59	19.66	19.50	20.0
40	256QAM	1	1	17.80	17.96	17.74	18.0
Channel				637334	641666	646000	22.5
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.90	22.13	21.87	22.5
Channel				637168	641666	646166	
Frequency (MHz)				3557.52	3624.99	3692.49	22.5
15	PI/2 BPSK	1	1	21.92	22.12	21.85	
Channel				637000	641666	646332	22.5
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.94	22.07	21.85	



<FR1 n48\_Ant 9\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	20.34	20.48	20.28	21.0
40	PI/2 BPSK	1	53	20.27	20.36	20.16	
40	PI/2 BPSK	1	104	20.13	20.38	20.12	
40	PI/2 BPSK	50	0	20.26	20.40	20.12	21.0
40	PI/2 BPSK	50	28	20.33	20.44	20.26	21.0
40	PI/2 BPSK	50	56	20.23	20.31	20.21	21.0
40	PI/2 BPSK	100	0	20.34	20.47	20.21	
40	QPSK	1	1	20.43	20.58	20.38	21.0
40	QPSK	1	53	20.33	20.41	20.21	
40	QPSK	1	104	20.23	20.48	20.19	
40	QPSK	50	0	20.32	20.45	20.18	21.0
40	QPSK	50	28	20.39	20.54	20.31	21.0
40	QPSK	50	56	20.28	20.41	20.26	21.0
40	QPSK	100	0	20.39	20.54	20.31	
40	16QAM	1	1	20.30	20.48	20.20	21.0
40	64QAM	1	1	18.81	18.98	18.68	19.5
40	256QAM	1	1	16.88	17.08	16.79	17.5
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	20.29	20.46	20.18	21.0
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	20.32	20.41	20.22	21.0
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	20.33	20.40	20.24	21.0

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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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	14.99	15.07	14.99	15.5
100	PI/2 BPSK	1	137	14.79	14.90	14.79	
100	PI/2 BPSK	1	271	14.84	14.92	14.85	
100	PI/2 BPSK	135	0	14.80	14.86	14.90	15.5
100	PI/2 BPSK	135	69	14.92	15.06	14.96	15.5
100	PI/2 BPSK	135	138	14.76	14.91	14.81	15.5
100	PI/2 BPSK	270	0	14.93	15.03	14.99	
100	QPSK	1	1	15.04	15.15	15.07	
100	QPSK	1	137	14.89	14.98	14.88	15.5
100	QPSK	1	271	14.91	14.97	14.93	
100	QPSK	135	0	14.89	14.96	14.95	
100	QPSK	135	69	15.01	15.14	15.06	15.5
100	QPSK	135	138	14.86	14.99	14.90	15.5
100	QPSK	270	0	15.02	15.11	15.05	
100	16QAM	1	1	14.91	14.97	14.88	
100	64QAM	1	1	14.87	14.96	14.93	15.5
100	256QAM	1	1	14.93	15.03	14.94	15.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	14.88	14.97	14.94	15.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	14.92	14.99	14.94	15.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	14.94	14.96	14.89	15.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	14.86	14.95	14.93	15.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	14.94	15.03	14.87	15.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	14.85	15.03	14.94	15.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	14.89	14.97	14.93	15.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	14.93	14.98	14.93	15.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	14.84	15.03	14.88	15.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	14.85	15.04	14.97	15.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	14.84	15.00	14.90	15.5



<FR1 n77\_Ant 7\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	14.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	13.92	14.02	13.88	
100	PI/2 BPSK	1	137	13.74	13.81	13.73	14.5
100	PI/2 BPSK	1	271	13.87	13.95	13.79	
100	PI/2 BPSK	135	0	13.74	13.88	13.81	
100	PI/2 BPSK	135	69	13.95	14.00	13.84	14.5
100	PI/2 BPSK	135	138	13.81	13.86	13.80	
100	PI/2 BPSK	270	0	13.93	13.99	13.81	
100	QPSK	1	1	14.02	14.11	13.98	14.5
100	QPSK	1	137	13.84	13.91	13.83	
100	QPSK	1	271	13.92	14.00	13.87	
100	QPSK	135	0	13.84	13.94	13.88	14.5
100	QPSK	135	69	14.00	14.09	13.94	
100	QPSK	135	138	13.89	13.95	13.86	
100	QPSK	270	0	14.00	14.08	13.90	14.5
100	16QAM	1	1	13.87	13.93	13.88	
100	64QAM	1	1	13.85	13.97	13.84	
100	256QAM	1	1	13.88	14.00	13.82	14.5
Channel				649668	656000	662332	14.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	13.82	13.97	13.82	
Channel				649334	656000	662666	14.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	13.82	14.00	13.79	
Channel				649000	656000	663000	14.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	13.92	13.98	13.88	
Channel				648668	656000	663332	14.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	13.92	13.99	13.87	
Channel				648334	656000	663666	14.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	13.82	13.97	13.78	
Channel				648000	656000	664000	14.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	13.83	14.00	13.86	
Channel				647668	656000	664332	14.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	13.87	13.94	13.82	
Channel				647500	656000	664500	14.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	13.87	13.92	13.85	
Channel				647334	656000	664666	14.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	13.91	13.97	13.82	
Channel				647168	656000	664832	14.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	13.86	13.95	13.78	
Channel				647000	656000	665000	14.5
Frequency (MHz)				3705	3840	3975	



10	PI/2 BPSK	1	1	13.85	13.93	13.85	14.5
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<FR1 n77\_Ant 8\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	22.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.94	21.11	21.00	22.5
100	PI/2 BPSK	1	137	21.03	21.21	21.16	
100	PI/2 BPSK	1	271	21.01	21.15	21.06	
100	PI/2 BPSK	135	0	21.02	21.21	21.08	22.0
100	PI/2 BPSK	135	69	20.98	21.17	21.12	22.5
100	PI/2 BPSK	135	138	21.07	21.22	21.08	22.0
100	PI/2 BPSK	270	0	21.06	21.23	21.09	
100	QPSK	1	1	21.11	21.25	21.20	22.5
100	QPSK	1	137	21.01	21.21	21.09	
100	QPSK	1	271	20.88	21.11	21.05	
100	QPSK	135	0	20.95	21.14	20.99	21.5
100	QPSK	135	69	21.10	21.24	21.13	22.5
100	QPSK	135	138	21.06	21.23	21.14	21.5
100	QPSK	270	0	20.97	21.20	21.07	
100	16QAM	1	1	20.87	21.11	21.05	21.5
100	64QAM	1	1	19.76	19.96	19.89	20.0
100	256QAM	1	1	17.75	17.93	17.84	18.0
Channel				649668	656000	662332	22.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.91	21.06	20.96	22.5
Channel				649334	656000	662666	22.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.91	21.09	20.97	22.5
Channel				649000	656000	663000	22.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.92	21.04	20.95	22.5
Channel				648668	656000	663332	22.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.86	21.05	20.97	22.5
Channel				648334	656000	663666	22.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.89	21.06	20.98	22.5
Channel				648000	656000	664000	22.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.92	21.05	20.96	22.5
Channel				647668	656000	664332	22.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.86	21.09	20.95	22.5
Channel				647500	656000	664500	22.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.92	21.06	20.95	22.5
Channel				647334	656000	664666	22.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.90	21.06	20.98	22.5
Channel				647168	656000	664832	22.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.86	21.03	20.92	22.5
Channel				647000	656000	665000	Tune-up limit



Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	20.91	21.08	20.92	22.5

**<FR1 n77\_Ant 9\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	18.5
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.15	17.24	17.12	
100	PI/2 BPSK	1	137	17.03	17.06	16.98	18.5
100	PI/2 BPSK	1	271	17.04	17.03	16.94	
100	PI/2 BPSK	135	0	16.99	17.05	16.96	18.5
100	PI/2 BPSK	135	69	17.11	17.17	17.07	18.5
100	PI/2 BPSK	135	138	16.96	17.01	16.96	18.5
100	PI/2 BPSK	270	0	17.12	17.23	17.04	
100	QPSK	1	1	17.23	17.31	17.17	18.5
100	QPSK	1	137	17.09	17.15	17.03	
100	QPSK	1	271	17.09	17.12	17.03	
100	QPSK	135	0	17.07	17.11	17.05	18.5
100	QPSK	135	69	17.18	17.22	17.15	18.5
100	QPSK	135	138	17.06	17.08	17.01	18.5
100	QPSK	270	0	17.19	17.28	17.14	
100	16QAM	1	1	17.06	17.11	16.96	18.5
100	64QAM	1	1	17.05	17.16	16.97	18.5
100	256QAM	1	1	17.06	17.16	17.01	18.5
Channel				649668	656000	662332	18.5
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.06	17.15	16.96	18.5
Channel				649334	656000	662666	18.5
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.98	17.06	16.92	18.5
Channel				649000	656000	663000	18.5
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.99	17.14	17.02	18.5
Channel				648668	656000	663332	18.5
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.02	17.11	16.96	18.5
Channel				648334	656000	663666	18.5
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.03	17.10	16.92	18.5
Channel				648000	656000	664000	18.5
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.04	17.06	17.02	18.5
Channel				647668	656000	664332	18.5
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.04	17.08	16.98	18.5
Channel				647500	656000	664500	18.5
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.02	17.08	16.98	18.5
Channel				647334	656000	664666	18.5
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.04	17.06	16.93	18.5
Channel				647168	656000	664832	18.5
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	17.07	17.12	16.98	18.5



Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.00	17.16	16.99	18.5

<FR1 n77\_HPUE\_Ant 6\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	17.81	17.94	17.89	18.5
100	PI/2 BPSK	1	137	17.71	17.79	17.77	
100	PI/2 BPSK	1	271	17.66	17.79	17.74	
100	PI/2 BPSK	135	0	17.72	17.77	17.80	18.5
100	PI/2 BPSK	135	69	17.79	17.93	17.91	18.5
100	PI/2 BPSK	135	138	17.66	17.77	17.75	18.5
100	PI/2 BPSK	270	0	17.71	17.95	17.87	
100	QPSK	1	1	17.89	18.02	17.97	
100	QPSK	1	137	17.78	17.86	17.87	18.5
100	QPSK	1	271	17.75	17.87	17.81	
100	QPSK	135	0	17.80	17.83	17.85	
100	QPSK	135	69	17.84	18.01	17.96	18.5
100	QPSK	135	138	17.73	17.86	17.85	18.5
100	QPSK	270	0	17.80	18.00	17.94	
100	16QAM	1	1	17.69	17.91	17.78	
100	64QAM	1	1	17.69	17.85	17.85	18.5
100	256QAM	1	1	17.78	17.92	17.80	18.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	17.70	17.86	17.82	18.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	17.72	17.91	17.79	18.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	17.75	17.87	17.79	18.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	17.73	17.82	17.87	18.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	17.73	17.88	17.82	18.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	17.69	17.90	17.77	18.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	17.76	17.91	17.78	18.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	17.76	17.87	17.87	18.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	17.76	17.86	17.87	18.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	





15	PI/2 BPSK	1	1	17.76	17.84	17.77	18.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	17.69	17.90	17.84	18.5

**<FR1 n77\_HPUE\_Ant 7\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.78	16.83	16.73	17.5
100	PI/2 BPSK	1	137	16.69	16.74	16.53	
100	PI/2 BPSK	1	271	16.67	16.63	16.60	
100	PI/2 BPSK	135	0	16.63	16.70	16.51	17.5
100	PI/2 BPSK	135	69	16.76	16.80	16.65	17.5
100	PI/2 BPSK	135	138	16.60	16.69	16.59	17.5
100	PI/2 BPSK	270	0	16.72	16.81	16.67	
100	QPSK	1	1	16.86	16.93	16.79	17.5
100	QPSK	1	137	16.74	16.79	16.61	
100	QPSK	1	271	16.74	16.73	16.69	
100	QPSK	135	0	16.70	16.75	16.61	17.5
100	QPSK	135	69	16.84	16.90	16.75	17.5
100	QPSK	135	138	16.68	16.77	16.69	17.5
100	QPSK	270	0	16.82	16.91	16.76	
100	16QAM	1	1	16.66	16.80	16.63	17.5
100	64QAM	1	1	16.68	16.81	16.66	17.5
100	256QAM	1	1	16.74	16.73	16.63	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.76	16.75	16.66	17.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.74	16.80	16.65	17.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.67	16.77	16.68	17.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.69	16.76	16.68	17.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.67	16.77	16.68	17.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.67	16.76	16.59	17.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.67	16.79	16.64	17.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.67	16.73	16.63	17.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.69	16.76	16.66	17.5
Channel				647168	656000	664832	Tune-up limit



Frequency (MHz)				3707.52	3840	3972.48	(dBm)
15	PI/2 BPSK	1	1	16.68	16.83	16.66	17.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.75	16.82	16.61	17.5

**<FR1 n77\_HPUE\_Ant 8\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.55	23.71	23.57	25.5
100	PI/2 BPSK	1	137	23.69	23.81	23.70	
100	PI/2 BPSK	1	271	23.66	23.80	23.70	
100	PI/2 BPSK	135	0	23.39	23.49	23.33	25.0
100	PI/2 BPSK	135	69	23.69	23.81	23.70	25.5
100	PI/2 BPSK	135	138	23.25	23.39	23.28	25.0
100	PI/2 BPSK	270	0	23.07	23.27	23.11	
100	QPSK	1	1	23.96	24.06	24.00	25.5
100	QPSK	1	137	23.85	24.00	23.88	
100	QPSK	1	271	23.71	23.87	23.81	
100	QPSK	135	0	22.68	22.88	22.73	24.5
100	QPSK	135	69	23.86	24.04	23.96	25.5
100	QPSK	135	138	22.65	22.85	22.71	24.5
100	QPSK	270	0	22.67	22.79	22.67	
100	16QAM	1	1	22.81	22.91	22.81	24.5
100	64QAM	1	1	21.33	21.47	21.41	23.0
100	256QAM	1	1	19.47	19.57	19.41	21.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.54	23.70	23.56	25.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.50	23.68	23.55	25.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.50	23.68	23.54	25.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.54	23.67	23.56	25.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.52	23.68	23.56	25.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.54	23.67	23.54	25.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.54	23.69	23.52	25.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.50	23.68	23.54	25.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.53	23.69	23.54	25.5



Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.51	23.68	23.52	25.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.51	23.65	23.56	25.5

<FR1 n77\_HPUE\_Ant 9\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.74	19.82	19.72	21.5
100	PI/2 BPSK	1	137	19.63	19.64	19.54	
100	PI/2 BPSK	1	271	19.54	19.58	19.63	
100	PI/2 BPSK	135	0	19.62	19.58	19.52	21.5
100	PI/2 BPSK	135	69	19.71	19.77	19.60	21.5
100	PI/2 BPSK	135	138	19.54	19.59	19.58	21.5
100	PI/2 BPSK	270	0	19.68	19.73	19.68	
100	QPSK	1	1	19.86	19.94	19.84	21.5
100	QPSK	1	137	19.76	19.78	19.65	
100	QPSK	1	271	19.71	19.75	19.74	
100	QPSK	135	0	19.74	19.76	19.65	21.5
100	QPSK	135	69	19.85	19.88	19.77	21.5
100	QPSK	135	138	19.71	19.76	19.70	21.5
100	QPSK	270	0	19.80	19.86	19.79	
100	16QAM	1	1	19.75	19.75	19.67	21.5
100	64QAM	1	1	19.75	19.75	19.73	21.5
100	256QAM	1	1	18.81	18.85	18.79	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.76	19.83	19.69	21.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.70	19.80	19.74	21.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.73	19.80	19.69	21.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.66	19.75	19.73	21.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.72	19.79	19.74	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.68	19.79	19.73	21.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.74	19.80	19.67	21.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.70	19.74	19.74	21.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	



20	PI/2 BPSK	1	1	19.68	19.76	19.70	21.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.67	19.74	19.69	21.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.72	19.82	19.66	21.5

**<FR1 n77\_Ant 6\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.30		15.5
100	PI/2 BPSK	1	137		15.31		
100	PI/2 BPSK	1	271		15.24		
100	PI/2 BPSK	135	0		15.32		15.5
100	PI/2 BPSK	135	69		15.34		15.5
100	PI/2 BPSK	135	138		15.27		15.5
100	PI/2 BPSK	270	0		15.35		
100	QPSK	1	1		15.50		15.5
100	QPSK	1	137		15.43		
100	QPSK	1	271		15.40		
100	QPSK	135	0		15.46		15.5
100	QPSK	135	69		15.49		15.5
100	QPSK	135	138		15.42		15.5
100	QPSK	270	0		15.47		
100	16QAM	1	1		15.42		15.5
100	64QAM	1	1		15.41		15.5
100	256QAM	1	1		15.36		15.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.37	15.46	15.42	15.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.32	15.44	15.38	15.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.34	15.45	15.38	15.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.34	15.41	15.37	15.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.35	15.43	15.38	15.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.32	15.44	15.38	15.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.36	15.43	15.39	15.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.35	15.45	15.37	15.5



Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.34	15.42	15.37	15.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.32	15.45	15.39	15.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.32	15.45	15.37	15.5

**<FR1 n77\_Ant 7\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.18		14.5
100	PI/2 BPSK	1	137		14.09		
100	PI/2 BPSK	1	271		14.08		
100	PI/2 BPSK	135	0		14.06		14.5
100	PI/2 BPSK	135	69		14.13		14.5
100	PI/2 BPSK	135	138		14.02		14.5
100	PI/2 BPSK	270	0		14.14		
100	QPSK	1	1		14.23		14.5
100	QPSK	1	137		14.15		
100	QPSK	1	271		14.13		
100	QPSK	135	0		14.11		14.5
100	QPSK	135	69		14.21		14.5
100	QPSK	135	138		14.10		14.5
100	QPSK	270	0		14.22		
100	16QAM	1	1		14.08		14.5
100	64QAM	1	1		14.03		14.5
100	256QAM	1	1		14.00		14.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.07	14.11	14.06	14.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.02	14.10	14.02	14.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.05	14.08	14.04	14.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.03	14.08	14.04	14.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.02	14.06	14.03	14.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.02	14.08	14.01	14.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.05	14.08	14.01	14.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	



25	PI/2 BPSK	1	1	14.03	14.07	14.04	14.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.02	14.09	14.01	14.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.02	14.06	14.01	14.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.03	14.07	14.02	14.5

<FR1 n77\_Ant 8\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.08		22.5
100	PI/2 BPSK	1	137		21.18		
100	PI/2 BPSK	1	271		21.06		
100	PI/2 BPSK	135	0		21.19		22.0
100	PI/2 BPSK	135	69		21.24		22.5
100	PI/2 BPSK	135	138		21.18		22.0
100	PI/2 BPSK	270	0		21.19		
100	QPSK	1	1		21.25		22.5
100	QPSK	1	137		21.13		
100	QPSK	1	271		21.10		
100	QPSK	135	0		21.09		21.5
100	QPSK	135	69		21.24		22.5
100	QPSK	135	138		21.23		21.5
100	QPSK	270	0		21.18		
100	16QAM	1	1		20.80		21.5
100	64QAM	1	1		19.86		20.0
100	256QAM	1	1		17.95		18.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.02	21.05	20.99	22.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.93	20.98	20.97	22.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.97	20.95	20.91	22.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.97	21.02	20.96	22.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.94	20.98	20.91	22.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.99	21.01	20.90	22.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.96	20.96	20.94	22.5
Channel				630834	633332	635832	Tune-up limit



Frequency (MHz)				3462.51	3499.98	3537.48	(dBm)
25	PI/2 BPSK	1	1	20.94	20.99	20.89	22.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.95	20.96	20.93	22.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.99	20.96	20.95	22.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.97	21.01	20.90	22.5

**<FR1 n77\_Ant 9\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.50		18.5
100	PI/2 BPSK	1	137		17.36		
100	PI/2 BPSK	1	271		17.36		
100	PI/2 BPSK	135	0		17.32		18.5
100	PI/2 BPSK	135	69		17.38		18.5
100	PI/2 BPSK	135	138		17.30		18.5
100	PI/2 BPSK	270	0		17.48		
100	QPSK	1	1		17.63		18.5
100	QPSK	1	137		17.56		
100	QPSK	1	271		17.52		
100	QPSK	135	0		17.50		18.5
100	QPSK	135	69		17.58		18.5
100	QPSK	135	138		17.48		18.5
100	QPSK	270	0		17.61		
100	16QAM	1	1		17.51		18.5
100	64QAM	1	1		17.48		18.5
100	256QAM	1	1		16.43		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.43	17.51	17.48	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.41	17.47	17.43	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.39	17.49	17.44	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.39	17.49	17.45	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.40	17.50	17.43	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.41	17.46	17.46	18.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.40	17.50	17.45	18.5



Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.41	17.50	17.43	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.38	17.50	17.44	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.41	17.49	17.45	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.38	17.47	17.46	18.5

**<FR1 n77\_HPUE\_Ant 6\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.24		18.5
100	PI/2 BPSK	1	137		18.20		
100	PI/2 BPSK	1	271		18.21		
100	PI/2 BPSK	135	0		18.19		18.5
100	PI/2 BPSK	135	69		18.29		18.5
100	PI/2 BPSK	135	138		18.14		18.5
100	PI/2 BPSK	270	0		18.16		
100	QPSK	1	1		18.42		18.5
100	QPSK	1	137		18.36		
100	QPSK	1	271		18.32		
100	QPSK	135	0		18.39		18.5
100	QPSK	135	69		18.41		18.5
100	QPSK	135	138		18.30		18.5
100	QPSK	270	0		18.30		
100	16QAM	1	1		18.31		18.5
100	64QAM	1	1		18.33		18.5
100	256QAM	1	1		18.24		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.32	18.36	18.30	18.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.28	18.32	18.27	18.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.27	18.31	18.27	18.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.30	18.33	18.25	18.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	18.27	18.34	18.25	18.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.27	18.31	18.29	18.5





Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	18.28	18.35	18.25	18.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.29	18.34	18.27	18.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.29	18.33	18.26	18.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	18.28	18.33	18.28	18.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	18.27	18.34	18.29	18.5

<FR1 n77\_HPUE\_Ant 7\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.97		17.5
100	PI/2 BPSK	1	137		16.88		
100	PI/2 BPSK	1	271		16.88		
100	PI/2 BPSK	135	0		16.90		17.5
100	PI/2 BPSK	135	69		16.97		17.5
100	PI/2 BPSK	135	138		16.85		17.5
100	PI/2 BPSK	270	0		16.94		
100	QPSK	1	1		17.06		17.5
100	QPSK	1	137		16.96		
100	QPSK	1	271		16.93		
100	QPSK	135	0		16.95		17.5
100	QPSK	135	69		17.05		17.5
100	QPSK	135	138		16.91		17.5
100	QPSK	270	0		16.99		
100	16QAM	1	1		16.91		17.5
100	64QAM	1	1		16.87		17.5
100	256QAM	1	1		16.85		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.84	16.93	16.86	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.80	16.91	16.83	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.81	16.92	16.81	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.81	16.91	16.84	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.82	16.88	16.81	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	



40	PI/2 BPSK	1	1	16.82	16.88	16.81	17.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.81	16.90	16.81	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.79	16.88	16.84	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.81	16.90	16.81	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.81	16.90	16.83	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.81	16.90	16.85	17.5

<FR1 n77\_HPUE\_Ant 8\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.98		25.5
100	PI/2 BPSK	1	137		24.07		
100	PI/2 BPSK	1	271		23.99		
100	PI/2 BPSK	135	0		23.40		25.0
100	PI/2 BPSK	135	69		24.10		25.5
100	PI/2 BPSK	135	138		24.06		25.0
100	PI/2 BPSK	270	0		24.04		
100	QPSK	1	1		24.14		25.5
100	QPSK	1	137		23.82		
100	QPSK	1	271		23.91		
100	QPSK	135	0		23.11		24.5
100	QPSK	135	69		24.12		25.5
100	QPSK	135	138		24.06		24.5
100	QPSK	270	0		24.04		
100	16QAM	1	1		23.41		24.5
100	64QAM	1	1		21.50		23.0
100	256QAM	1	1		19.58		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.91	23.95	23.93	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.84	23.92	23.88	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.84	23.87	23.87	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.84	23.92	23.85	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.88	23.91	23.88	25.5
Channel				631334	633332	635332	Tune-up limit



Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	23.82	23.87	23.87	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.84	23.90	23.84	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.86	23.91	23.89	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.86	23.87	23.89	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.83	23.90	23.90	25.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.87	23.90	23.88	25.5

**<FR1 n77\_HPUE\_Ant 9\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.13		21.5
100	PI/2 BPSK	1	137		20.07		
100	PI/2 BPSK	1	271		20.01		
100	PI/2 BPSK	135	0		19.98		21.5
100	PI/2 BPSK	135	69		20.10		21.5
100	PI/2 BPSK	135	138		19.95		21.5
100	PI/2 BPSK	270	0		20.11		
100	QPSK	1	1		20.21		21.5
100	QPSK	1	137		20.13		
100	QPSK	1	271		20.10		
100	QPSK	135	0		20.08		21.5
100	QPSK	135	69		20.18		21.5
100	QPSK	135	138		20.02		21.5
100	QPSK	270	0		20.18		
100	16QAM	1	1		20.11		21.5
100	64QAM	1	1		20.12		21.5
100	256QAM	1	1		19.12		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.13	20.16	20.11	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.09	20.13	20.08	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.10	20.12	20.07	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.08	20.12	20.10	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.09	20.13	20.10	21.5



Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.08	20.15	20.08	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.09	20.13	20.07	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.09	20.13	20.08	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.12	20.11	20.07	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.09	20.13	20.08	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.09	20.15	20.10	21.5

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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)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		15.27		15.5
100	PI/2 BPSK	1	137		15.21		
100	PI/2 BPSK	1	271		15.14		
100	PI/2 BPSK	135	0		15.21		15.5
100	PI/2 BPSK	135	69		15.26		15.5
100	PI/2 BPSK	135	138		15.14		15.5
100	PI/2 BPSK	270	0		15.30		
100	QPSK	1	1		15.45		15.5
100	QPSK	1	137		15.35		
100	QPSK	1	271		15.31		
100	QPSK	135	0		15.33		15.5
100	QPSK	135	69		15.44		15.5
100	QPSK	135	138		15.32		15.5
100	QPSK	270	0		15.44		
100	16QAM	1	1		15.31		15.5
100	64QAM	1	1		15.26		15.5
100	256QAM	1	1		15.20		15.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	15.31	15.36	15.33	15.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	15.27	15.34	15.30	15.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	15.28	15.34	15.29	15.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	15.27	15.35	15.30	15.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	



50	PI/2 BPSK	1	1	15.26	15.35	15.28	15.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	15.26	15.34	15.31	15.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	15.26	15.32	15.29	15.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	15.28	15.33	15.29	15.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	15.30	15.35	15.30	15.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	15.30	15.32	15.32	15.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	15.27	15.35	15.30	15.5

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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)
Channel					650000		15.5
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		14.74		15.5
100	PI/2 BPSK	1	137		14.65		
100	PI/2 BPSK	1	271		14.62		15.5
100	PI/2 BPSK	135	0		14.55		
100	PI/2 BPSK	135	69		14.68		15.5
100	PI/2 BPSK	135	138		14.55		
100	PI/2 BPSK	270	0		14.71		15.5
100	QPSK	1	1		14.82		
100	QPSK	1	137		14.70		15.5
100	QPSK	1	271		14.69		
100	QPSK	135	0		14.65		15.5
100	QPSK	135	69		14.77		
100	QPSK	135	138		14.63		15.5
100	QPSK	270	0		14.79		
100	16QAM	1	1		14.61		15.5
100	64QAM	1	1		14.63		
100	256QAM	1	1		14.58		15.5
Channel				649668	650000	650332	
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	14.63	14.69	14.68	15.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	14.60	14.65	14.66	15.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	14.62	14.64	14.65	15.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	14.60	14.64	14.64	15.5
Channel				648334	650000	651666	Tune-up limit



Frequency (MHz)				3725.01	3750	3774.99	(dBm)
50	PI/2 BPSK	1	1	14.58	14.65	14.67	15.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	14.62	14.68	14.64	15.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	14.60	14.67	14.65	15.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	14.58	14.66	14.63	15.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	14.60	14.66	14.63	15.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	14.61	14.64	14.67	15.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	14.62	14.65	14.64	15.5

**<FR1 n78\_Ant 8\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.11		23.5
100	PI/2 BPSK	1	137		22.13		
100	PI/2 BPSK	1	271		22.21		
100	PI/2 BPSK	135	0		22.21		23.0
100	PI/2 BPSK	135	69		22.31		23.5
100	PI/2 BPSK	135	138		22.24		23.0
100	PI/2 BPSK	270	0		22.34		
100	QPSK	1	1		22.35		23.5
100	QPSK	1	137		22.21		
100	QPSK	1	271		22.23		
100	QPSK	135	0		22.21		22.5
100	QPSK	135	69		22.34		23.5
100	QPSK	135	138		22.19		22.5
100	QPSK	270	0		22.33		
100	16QAM	1	1		21.83		22.5
100	64QAM	1	1		20.94		21.0
100	256QAM	1	1		18.93		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.02	22.09	22.06	23.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.95	22.03	21.97	23.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.96	22.01	22.00	23.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.00	22.07	21.97	23.5



Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.98	22.06	21.97	23.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.95	22.07	21.97	23.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.00	22.06	21.98	23.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.93	22.05	22.00	23.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	21.95	22.07	21.98	23.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.97	22.04	21.98	23.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.96	22.01	21.97	23.5

<FR1 n78\_Ant 9\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.52		18.5
100	PI/2 BPSK	1	137		17.45		
100	PI/2 BPSK	1	271		17.40		
100	PI/2 BPSK	135	0		17.37		18.5
100	PI/2 BPSK	135	69		17.45		18.5
100	PI/2 BPSK	135	138		17.33		18.5
100	PI/2 BPSK	270	0		17.48		
100	QPSK	1	1		17.59		18.5
100	QPSK	1	137		17.52		
100	QPSK	1	271		17.50		
100	QPSK	135	0		17.46		18.5
100	QPSK	135	69		17.54		18.5
100	QPSK	135	138		17.43		18.5
100	QPSK	270	0		17.55		
100	16QAM	1	1		17.41		18.5
100	64QAM	1	1		17.36		18.5
100	256QAM	1	1		17.33		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.32	17.40	17.36	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.28	17.38	17.34	18.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	17.30	17.39	17.31	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	



60	PI/2 BPSK	1	1	17.31	17.35	17.31	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.27	17.37	17.35	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.28	17.35	17.31	18.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.27	17.36	17.35	18.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.29	17.37	17.32	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.31	17.35	17.32	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.31	17.35	17.34	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.30	17.39	17.33	18.5

**<FR1 n78\_HPUE\_Ant 6\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		18.20		18.5
100	PI/2 BPSK	1	137		18.11		
100	PI/2 BPSK	1	271		18.05		
100	PI/2 BPSK	135	0		18.03		18.5
100	PI/2 BPSK	135	69		18.18		18.5
100	PI/2 BPSK	135	138		18.10		18.5
100	PI/2 BPSK	270	0		18.17		
100	QPSK	1	1		18.26		18.5
100	QPSK	1	137		18.18		
100	QPSK	1	271		18.14		
100	QPSK	135	0		18.11		18.5
100	QPSK	135	69		18.25		18.5
100	QPSK	135	138		18.15		18.5
100	QPSK	270	0		18.22		
100	16QAM	1	1		18.16		18.5
100	64QAM	1	1		18.13		18.5
100	256QAM	1	1		18.11		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	18.13	18.15	18.11	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	18.09	18.14	18.07	18.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	





70	PI/2 BPSK	1	1	18.11	18.11	18.10	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	18.10	18.10	18.06	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	18.10	18.11	18.10	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	18.11	18.13	18.08	18.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	18.10	18.13	18.07	18.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	18.09	18.12	18.06	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	18.10	18.10	18.09	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	18.11	18.10	18.06	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	18.11	18.14	18.07	18.5

**<FR1 n78\_HPUE\_Ant 7\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		17.77		18.5
100	PI/2 BPSK	1	137		17.73		
100	PI/2 BPSK	1	271		17.76		
100	PI/2 BPSK	135	0		17.78		18.5
100	PI/2 BPSK	135	69		17.76		18.5
100	PI/2 BPSK	135	138		17.68		18.5
100	PI/2 BPSK	270	0		17.73		
100	QPSK	1	1		17.85		
100	QPSK	1	137		17.81		18.5
100	QPSK	1	271		17.82		
100	QPSK	135	0		17.83		
100	QPSK	135	69		17.84		18.5
100	QPSK	135	138		17.78		18.5
100	QPSK	270	0		17.82		
100	16QAM	1	1		17.79		
100	64QAM	1	1		17.76		18.5
100	256QAM	1	1		17.71		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	17.70	17.77	17.72	18.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	17.67	17.72	17.68	18.5
Channel				649000	650000	651000	Tune-up limit



Frequency (MHz)				3735	3750	3765	(dBm)
70	PI/2 BPSK	1	1	17.68	17.73	17.69	18.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	17.67	17.76	17.69	18.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	17.69	17.74	17.67	18.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	17.67	17.74	17.67	18.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	17.66	17.74	17.70	18.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	17.66	17.74	17.69	18.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	17.66	17.76	17.69	18.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	17.67	17.76	17.71	18.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	17.67	17.74	17.70	18.5

**<FR1 n78\_HPUE\_Ant 8\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.81		26.5
100	PI/2 BPSK	1	137		24.91		
100	PI/2 BPSK	1	271		24.83		
100	PI/2 BPSK	135	0		24.51		26.0
100	PI/2 BPSK	135	69		25.04		26.5
100	PI/2 BPSK	135	138		24.51		26.0
100	PI/2 BPSK	270	0		24.52		
100	QPSK	1	1		25.05		26.5
100	QPSK	1	137		24.91		
100	QPSK	1	271		25.00		
100	QPSK	135	0		24.91		25.5
100	QPSK	135	69		25.01		26.5
100	QPSK	135	138		23.95		25.5
100	QPSK	270	0		23.93		
100	16QAM	1	1		23.95		25.5
100	64QAM	1	1		22.38		24.0
100	256QAM	1	1		20.71		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.65	24.71	24.69	26.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.58	24.59	24.66	26.5



Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.62	24.67	24.61	26.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.62	24.59	24.65	26.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.56	24.59	24.61	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.55	24.63	24.65	26.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.57	24.61	24.65	26.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.62	24.65	24.64	26.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.57	24.64	24.57	26.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.55	24.63	24.57	26.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.59	24.66	24.64	26.5

**<FR1 n78\_HPUE\_Ant 9\_DSI 1\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		20.09		21.5
100	PI/2 BPSK	1	137		20.01		
100	PI/2 BPSK	1	271		19.99		
100	PI/2 BPSK	135	0		19.99		21.5
100	PI/2 BPSK	135	69		20.08		21.5
100	PI/2 BPSK	135	138		19.97		21.5
100	PI/2 BPSK	270	0		20.05		
100	QPSK	1	1		20.16		21.5
100	QPSK	1	137		20.11		
100	QPSK	1	271		20.09		
100	QPSK	135	0		20.09		21.5
100	QPSK	135	69		20.15		21.5
100	QPSK	135	138		20.06		21.5
100	QPSK	270	0		20.14		
100	16QAM	1	1		20.06		21.5
100	64QAM	1	1		20.04		21.5
100	256QAM	1	1		20.03		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	20.03	20.06	20.01	21.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	



80	PI/2 BPSK	1	1	19.99	20.05	19.97	21.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.98	20.03	19.96	21.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.98	20.05	19.98	21.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	20.01	20.04	19.99	21.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.98	20.03	19.98	21.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	20.00	20.01	20.00	21.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	20.01	20.03	19.98	21.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.98	20.05	19.98	21.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	20.00	20.04	19.97	21.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	20.02	20.05	19.99	21.5



<FR1 n78\_Ant 6\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		15.44		15.5
100	PI/2 BPSK	1	137		15.31		
100	PI/2 BPSK	1	271		15.29		
100	PI/2 BPSK	135	0		15.33		15.5
100	PI/2 BPSK	135	69		15.37		15.5
100	PI/2 BPSK	135	138		15.29		15.5
100	PI/2 BPSK	270	0		15.39		
100	QPSK	1	1		15.49		15.5
100	QPSK	1	137		15.41		
100	QPSK	1	271		15.36		
100	QPSK	135	0		15.40		15.5
100	QPSK	135	69		15.45		15.5
100	QPSK	135	138		15.34		15.5
100	QPSK	270	0		15.45		
100	16QAM	1	1		15.36		15.5
100	64QAM	1	1		15.33		15.5
100	256QAM	1	1		15.28		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	15.20	15.26	15.23	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	15.16	15.25	15.21	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	15.17	15.21	15.19	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	15.19	15.25	15.20	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	15.16	15.23	15.19	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	15.15	15.21	15.21	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	15.17	15.21	15.20	15.5
Channel				630834	633332	635832	15.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	15.19	15.25	15.22	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	15.16	15.23	15.21	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	15.19	15.24	15.20	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	15.16	15.24	15.22	15.5



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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)
Channel					633332		15.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		14.79		15.5
100	PI/2 BPSK	1	137		14.69		
100	PI/2 BPSK	1	271		14.66		
100	PI/2 BPSK	135	0		14.67		15.5
100	PI/2 BPSK	135	69		14.76		15.5
100	PI/2 BPSK	135	138		14.65		15.5
100	PI/2 BPSK	270	0		14.73		
100	QPSK	1	1		14.84		15.5
100	QPSK	1	137		14.78		
100	QPSK	1	271		14.73		
100	QPSK	135	0		14.76		15.5
100	QPSK	135	69		14.82		15.5
100	QPSK	135	138		14.70		15.5
100	QPSK	270	0		14.80		
100	16QAM	1	1		14.72		15.5
100	64QAM	1	1		14.69		15.5
100	256QAM	1	1		14.65		15.5
Channel				633000	633332	633666	15.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	14.63	14.71	14.68	15.5
Channel				632668	633332	634000	15.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	14.61	14.67	14.65	15.5
Channel				632334	633332	634332	15.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	14.60	14.69	14.67	15.5
Channel				632000	633332	634666	15.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	14.59	14.67	14.67	15.5
Channel				631668	633332	635000	15.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	14.58	14.70	14.65	15.5
Channel				631334	633332	635332	15.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	14.59	14.67	14.64	15.5
Channel				631000	633332	635666	15.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	14.62	14.68	14.67	15.5
Channel				630834	633332	635832	15.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	14.58	14.69	14.63	15.5
Channel				630668	633332	636000	15.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	14.58	14.69	14.65	15.5
Channel				630500	633332	636166	15.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	14.61	14.68	14.63	15.5
Channel				630334	633332	636332	15.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	14.59	14.70	14.64	15.5



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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)
Channel					633332		23.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.91		23.5
100	PI/2 BPSK	1	137		22.03		
100	PI/2 BPSK	1	271		22.17		
100	PI/2 BPSK	135	0		22.02		23.0
100	PI/2 BPSK	135	69		22.17		23.5
100	PI/2 BPSK	135	138		22.11		23.0
100	PI/2 BPSK	270	0		22.13		
100	QPSK	1	1		22.18		23.5
100	QPSK	1	137		22.01		
100	QPSK	1	271		22.11		
100	QPSK	135	0		22.03		22.5
100	QPSK	135	69		22.13		23.5
100	QPSK	135	138		22.11		22.5
100	QPSK	270	0		22.11		
100	16QAM	1	1		21.79		22.5
100	64QAM	1	1		20.96		21.0
100	256QAM	1	1		18.94		19.0
Channel				633000	633332	633666	23.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.77	21.85	21.80	23.5
Channel				632668	633332	634000	23.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.73	21.80	21.73	23.5
Channel				632334	633332	634332	23.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.73	21.83	21.75	23.5
Channel				632000	633332	634666	23.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.75	21.78	21.73	23.5
Channel				631668	633332	635000	23.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.69	21.79	21.78	23.5
Channel				631334	633332	635332	23.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.74	21.77	21.72	23.5
Channel				631000	633332	635666	23.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.74	21.79	21.76	23.5
Channel				630834	633332	635832	23.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.70	21.78	21.73	23.5
Channel				630668	633332	636000	23.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.68	21.80	21.77	23.5
Channel				630500	633332	636166	23.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.72	21.83	21.74	23.5
Channel				630334	633332	636332	23.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.72	21.76	21.77	23.5



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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)
Channel					633332		18.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.53		18.5
100	PI/2 BPSK	1	137		17.49		
100	PI/2 BPSK	1	271		17.48		
100	PI/2 BPSK	135	0		17.39		18.5
100	PI/2 BPSK	135	69		17.46		18.5
100	PI/2 BPSK	135	138		17.46		18.5
100	PI/2 BPSK	270	0		17.49		
100	QPSK	1	1		17.69		18.5
100	QPSK	1	137		17.63		
100	QPSK	1	271		17.60		
100	QPSK	135	0		17.59		18.5
100	QPSK	135	69		17.65		18.5
100	QPSK	135	138		17.56		18.5
100	QPSK	270	0		17.62		
100	16QAM	1	1		17.51		18.5
100	64QAM	1	1		17.48		18.5
100	256QAM	1	1		17.43		18.5
Channel				633000	633332	633666	18.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.36	17.41	17.38	18.5
Channel				632668	633332	634000	18.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.35	17.37	17.36	18.5
Channel				632334	633332	634332	18.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.33	17.37	17.36	18.5
Channel				632000	633332	634666	18.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.31	17.39	17.37	18.5
Channel				631668	633332	635000	18.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.32	17.37	17.36	18.5
Channel				631334	633332	635332	18.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.35	17.38	17.33	18.5
Channel				631000	633332	635666	18.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.33	17.37	17.34	18.5
Channel				630834	633332	635832	18.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.35	17.39	17.36	18.5
Channel				630668	633332	636000	18.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.35	17.39	17.37	18.5
Channel				630500	633332	636166	18.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.34	17.38	17.33	18.5
Channel				630334	633332	636332	18.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	17.32	17.38	17.35	18.5





<FR1 n78\_HPUE\_Ant 6\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		18.24		18.5
100	PI/2 BPSK	1	137		18.16		
100	PI/2 BPSK	1	271		18.15		
100	PI/2 BPSK	135	0		18.12		18.5
100	PI/2 BPSK	135	69		18.18		18.5
100	PI/2 BPSK	135	138		18.05		18.5
100	PI/2 BPSK	270	0		18.17		
100	QPSK	1	1		18.29		18.5
100	QPSK	1	137		18.21		
100	QPSK	1	271		18.20		
100	QPSK	135	0		18.18		18.5
100	QPSK	135	69		18.25		18.5
100	QPSK	135	138		18.13		18.5
100	QPSK	270	0		18.25		
100	16QAM	1	1		18.10		18.5
100	64QAM	1	1		18.08		18.5
100	256QAM	1	1		18.05		18.5
Channel				633000	633332	633666	18.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	18.03	18.10	18.05	18.5
Channel				632668	633332	634000	18.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	18.00	18.07	18.03	18.5
Channel				632334	633332	634332	18.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	18.01	18.05	18.00	18.5
Channel				632000	633332	634666	18.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	18.00	18.05	18.01	18.5
Channel				631668	633332	635000	18.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.99	18.08	18.00	18.5
Channel				631334	633332	635332	18.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	18.01	18.09	18.01	18.5
Channel				631000	633332	635666	18.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.99	18.09	18.02	18.5
Channel				630834	633332	635832	18.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	18.02	18.06	18.04	18.5
Channel				630668	633332	636000	18.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	18.00	18.09	18.00	18.5
Channel				630500	633332	636166	18.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.98	18.05	18.03	18.5
Channel				630334	633332	636332	18.5
Frequency (MHz)				3455.01	3499.98	3544.98	



10	PI/2 BPSK	1	1	18.00	18.08	18.00	18.5
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<FR1 n78\_HPUE\_Ant 7\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		18.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		17.54		18.5
100	PI/2 BPSK	1	137		17.47		
100	PI/2 BPSK	1	271		17.49		
100	PI/2 BPSK	135	0		17.46		18.5
100	PI/2 BPSK	135	69		17.53		18.5
100	PI/2 BPSK	135	138		17.41		18.5
100	PI/2 BPSK	270	0		17.51		
100	QPSK	1	1		17.62		18.5
100	QPSK	1	137		17.56		
100	QPSK	1	271		17.55		
100	QPSK	135	0		17.53		18.5
100	QPSK	135	69		17.60		18.5
100	QPSK	135	138		17.51		18.5
100	QPSK	270	0		17.58		
100	16QAM	1	1		17.51		18.5
100	64QAM	1	1		17.48		18.5
100	256QAM	1	1		17.43		18.5
Channel				633000	633332	633666	18.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	17.44	17.50	17.46	18.5
Channel				632668	633332	634000	18.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	17.43	17.45	17.45	18.5
Channel				632334	633332	634332	18.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	17.43	17.49	17.41	18.5
Channel				632000	633332	634666	18.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	17.43	17.45	17.45	18.5
Channel				631668	633332	635000	18.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	17.41	17.46	17.44	18.5
Channel				631334	633332	635332	18.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	17.40	17.48	17.41	18.5
Channel				631000	633332	635666	18.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	17.39	17.48	17.44	18.5
Channel				630834	633332	635832	18.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	17.41	17.49	17.43	18.5
Channel				630668	633332	636000	18.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	17.39	17.48	17.43	18.5
Channel				630500	633332	636166	18.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	17.43	17.48	17.42	18.5
Channel				630334	633332	636332	Tune-up limit



Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	17.43	17.45	17.44	18.5

<FR1 n78\_HPUE\_Ant 8\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		26.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.81		26.0
100	PI/2 BPSK	1	137		24.83		
100	PI/2 BPSK	1	271		24.79		
100	PI/2 BPSK	135	0		24.39		26.5
100	PI/2 BPSK	135	69		24.91		
100	PI/2 BPSK	135	138		24.55		26.0
100	PI/2 BPSK	270	0		24.51		
100	QPSK	1	1		24.95		26.5
100	QPSK	1	137		24.73		
100	QPSK	1	271		24.71		
100	QPSK	135	0		23.95		25.5
100	QPSK	135	69		24.93		
100	QPSK	135	138		23.95		25.5
100	QPSK	270	0		23.93		
100	16QAM	1	1		23.94		25.5
100	64QAM	1	1		22.35		24.0
100	256QAM	1	1		20.61		22.0
Channel				633000	633332	633666	26.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.61	24.77	24.70	26.5
Channel				632668	633332	634000	26.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.59	24.70	24.58	26.5
Channel				632334	633332	634332	26.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.56	24.71	24.61	26.5
Channel				632000	633332	634666	26.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.53	24.71	24.63	26.5
Channel				631668	633332	635000	26.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	24.50	24.61	24.64	26.5
Channel				631334	633332	635332	26.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.58	24.62	24.55	26.5
Channel				631000	633332	635666	26.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.57	24.68	24.63	26.5
Channel				630834	633332	635832	26.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.65	24.72	24.63	26.5
Channel				630668	633332	636000	26.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.59	24.72	24.65	26.5
Channel				630500	633332	636166	26.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.56	24.72	24.65	26.5



Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.51	24.69	24.61	26.5

<FR1 n78\_HPUE\_Ant 9\_DSI 1\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		20.22		21.5
100	PI/2 BPSK	1	137		20.09		
100	PI/2 BPSK	1	271		20.04		
100	PI/2 BPSK	135	0		20.04		21.5
100	PI/2 BPSK	135	69		20.17		21.5
100	PI/2 BPSK	135	138		19.99		21.5
100	PI/2 BPSK	270	0		20.12		
100	QPSK	1	1		20.29		21.5
100	QPSK	1	137		20.16		
100	QPSK	1	271		20.11		
100	QPSK	135	0		20.10		21.5
100	QPSK	135	69		20.25		21.5
100	QPSK	135	138		20.08		21.5
100	QPSK	270	0		20.21		
100	16QAM	1	1		20.06		21.5
100	64QAM	1	1		20.03		21.5
100	256QAM	1	1		19.93		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	20.03	20.13	20.06	21.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.02	20.08	20.03	21.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.98	20.12	20.01	21.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.00	20.08	20.05	21.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.01	20.12	20.05	21.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.00	20.11	20.01	21.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.00	20.12	20.04	21.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.00	20.09	20.04	21.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.98	20.11	20.02	21.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	



15	PI/2 BPSK	1	1	19.99	20.12	20.02	21.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.00	20.12	20.01	21.5

## DSI 4

<GSM>								
GSM850_Ant 0_DSI 4_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.88	32.95	32.85	34.00	23.88	23.95	23.85	25.00
GPRS 1 Tx slot	32.79	32.87	32.81	34.00	23.79	23.87	23.81	25.00
GPRS 2 Tx slots	29.88	29.85	29.82	31.00	23.88	23.85	23.82	25.00
GPRS 3 Tx slots	28.14	27.91	28.06	29.20	23.88	23.65	23.80	24.94
GPRS 4 Tx slots	26.85	26.99	26.74	28.00	23.85	23.99	23.74	25.00
EDGE 1 Tx slot	26.99	27.01	26.93	28.00	17.99	18.01	17.93	19.00
EDGE 2 Tx slots	23.83	23.89	23.75	25.00	17.83	17.89	17.75	19.00
EDGE 3 Tx slots	21.70	21.59	21.49	23.00	17.44	17.33	17.23	18.74
EDGE 4 Tx slots	19.87	19.87	19.72	21.00	16.87	16.87	16.72	18.00

<GSM>								
GSM850_Ant 1_DSI 4_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.88	31.93	31.86	33.50	22.88	22.93	22.86	24.50
GPRS 1 Tx slot	31.91	31.90	31.86	33.50	22.91	22.90	22.86	24.50
GPRS 2 Tx slots	28.87	28.96	28.88	30.50	22.87	22.96	22.88	24.50
GPRS 3 Tx slots	27.13	27.20	27.12	28.70	22.87	22.94	22.86	24.44
GPRS 4 Tx slots	25.89	25.97	25.82	27.50	22.89	22.97	22.82	24.50
EDGE 1 Tx slot	26.31	26.50	26.43	28.00	17.31	17.50	17.43	19.00
EDGE 2 Tx slots	23.17	23.14	23.04	24.50	17.17	17.14	17.04	18.50
EDGE 3 Tx slots	20.87	21.04	20.71	22.50	16.61	16.78	16.45	18.24
EDGE 4 Tx slots	19.23	19.31	19.33	21.00	16.23	16.31	16.33	18.00

<GSM>								
GSM1900_Ant 2_DSI 4_Main PA	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.15	30.23	30.14	31.00	21.15	21.23	21.14	22.00
GPRS 1 Tx slot	30.13	30.23	30.21	31.00	21.13	21.23	21.21	22.00
GPRS 2 Tx slots	27.13	27.22	27.17	28.00	21.13	21.22	21.17	22.00
GPRS 3 Tx slots	24.47	25.40	25.49	26.20	20.21	21.14	21.23	21.94
GPRS 4 Tx slots	24.19	24.25	24.20	25.00	21.19	21.25	21.20	22.00
EDGE 1 Tx slot	25.88	26.11	25.83	27.00	16.88	17.11	16.83	18.00
EDGE 2 Tx slots	22.71	22.81	22.64	24.00	16.71	16.81	16.64	18.00
EDGE 3 Tx slots	20.35	20.34	20.21	21.50	16.09	16.08	15.95	17.24
EDGE 4 Tx slots	18.71	18.38	18.24	19.50	15.71	15.38	15.24	16.50



<b>&lt;GSM&gt;</b>								
GSM1900_Ant 5_DSI 4_Main PA 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	29.61	29.68	29.51	30.00	20.61	20.68	20.51	21.00
GPRS 1 Tx slot	29.45	29.68	29.58	30.00	20.45	20.68	20.58	21.00
GPRS 2 Tx slots	26.58	26.74	26.63	27.00	20.58	20.74	20.63	21.00
GPRS 3 Tx slots	24.82	24.95	24.84	25.20	20.56	20.69	20.58	20.94
GPRS 4 Tx slots	23.69	23.70	23.55	24.00	20.69	20.70	20.55	21.00
EDGE 1 Tx slot	25.01	25.25	24.98	25.50	16.01	16.25	15.98	16.50
EDGE 2 Tx slots	21.78	21.85	21.49	22.00	15.78	15.85	15.49	16.00
EDGE 3 Tx slots	19.38	19.47	19.01	20.00	15.12	15.21	14.75	15.74
EDGE 4 Tx slots	17.55	17.56	17.28	18.00	14.55	14.56	14.28	15.00

<b>&lt;WCDMA&gt;</b>					
Band		WCDMA V_Ant 0_DSI 4_Main PA			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.12	24.19	24.09	25.00
3GPP Rel 99	RMC 12.2Kbps	24.15	24.21	24.11	25.00
3GPP Rel 6	HSDPA Subtest-1	23.01	23.07	22.97	24.00
3GPP Rel 6	HSDPA Subtest-2	23.02	23.08	22.99	24.00
3GPP Rel 6	HSDPA Subtest-3	22.64	22.65	22.57	23.50
3GPP Rel 6	HSDPA Subtest-4	22.58	22.65	22.53	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.03	23.08	22.99	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.01	23.07	23.00	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.61	22.63	22.60	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.55	22.69	22.53	23.50
3GPP Rel 6	HSUPA Subtest-1	23.02	23.08	22.98	24.00
3GPP Rel 6	HSUPA Subtest-2	21.03	21.11	20.98	22.00
3GPP Rel 6	HSUPA Subtest-3	21.96	22.11	21.93	23.00
3GPP Rel 6	HSUPA Subtest-4	21.04	21.10	20.99	22.00
3GPP Rel 6	HSUPA Subtest-5	23.01	23.07	22.97	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.53	20.58	20.44	21.50



<WCDMA>					
Band		WCDMA V_Ant 1_DSI 4_Main PA			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.21	23.25	22.98	25.00
3GPP Rel 99	RMC 12.2Kbps	23.33	23.35	23.05	25.00
3GPP Rel 6	HSDPA Subtest-1	22.37	22.27	22.07	24.00
3GPP Rel 6	HSDPA Subtest-2	22.39	22.27	22.04	24.00
3GPP Rel 6	HSDPA Subtest-3	21.79	21.79	21.50	23.50
3GPP Rel 6	HSDPA Subtest-4	21.75	21.88	21.47	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.26	22.41	22.13	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.31	22.38	22.06	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.88	21.84	21.51	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.73	21.95	21.53	23.50
3GPP Rel 6	HSUPA Subtest-1	22.24	22.44	21.97	24.00
3GPP Rel 6	HSUPA Subtest-2	20.25	20.33	20.09	22.00
3GPP Rel 6	HSUPA Subtest-3	21.33	21.37	21.14	23.00
3GPP Rel 6	HSUPA Subtest-4	20.26	20.30	19.95	22.00
3GPP Rel 6	HSUPA Subtest-5	22.33	22.38	22.03	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.87	19.87	19.59	21.50

<WCDMA>									
Band		WCDMA II_Ant 2_DSI 4_Main PA			Tune-up Limit (dBm)	WCDMA IV_Ant 2_DSI 4_Main PA			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	21.02	21.12	21.01	22.00	21.03	21.13	21.04	22.00
3GPP Rel 99	RMC 12.2Kbps	21.11	21.13	21.10	22.00	21.11	21.19	21.15	22.00
3GPP Rel 6	HSDPA Subtest-1	21.06	21.08	21.03	22.00	21.09	21.14	21.09	22.00
3GPP Rel 6	HSDPA Subtest-2	21.07	21.03	21.02	22.00	21.04	21.12	21.07	22.00
3GPP Rel 6	HSDPA Subtest-3	21.07	21.02	21.01	22.00	21.06	21.11	21.06	22.00
3GPP Rel 6	HSDPA Subtest-4	21.00	21.02	21.01	22.00	21.05	21.02	21.06	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.01	21.07	21.06	22.00	21.10	21.03	21.08	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.02	21.09	21.05	22.00	21.02	21.04	21.04	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.04	21.06	21.03	22.00	21.03	21.04	21.02	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.10	21.07	21.05	22.00	21.10	21.13	21.09	22.00
3GPP Rel 6	HSUPA Subtest-1	21.02	21.03	21.00	22.00	21.05	21.07	21.08	22.00
3GPP Rel 6	HSUPA Subtest-2	19.05	19.05	19.01	20.00	19.10	19.14	19.14	20.00
3GPP Rel 6	HSUPA Subtest-3	21.03	21.10	21.05	22.00	21.03	21.12	21.13	22.00
3GPP Rel 6	HSUPA Subtest-4	19.05	19.04	19.00	20.00	19.07	19.11	19.10	20.00
3GPP Rel 6	HSUPA Subtest-5	21.00	21.10	21.09	22.00	21.10	21.10	21.00	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.57	18.55	18.59	19.50	18.57	18.55	18.55	19.50



<WCDMA>									
Band		WCDMA II_Ant 5_DSI 4_Main PA			Tune-up Limit (dBm)	WCDMA IV_Ant 5_DSI 4_Main PA			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	23.47	23.59	23.59	25.00	23.64	23.74	23.55	25.20
3GPP Rel 99	RMC 12.2Kbps	23.56	23.69	23.59	25.00	23.72	23.77	23.64	25.20
3GPP Rel 6	HSDPA Subtest-1	22.65	22.63	22.58	24.00	22.98	23.00	22.82	24.20
3GPP Rel 6	HSDPA Subtest-2	22.49	22.77	22.65	24.00	23.02	22.98	22.89	24.20
3GPP Rel 6	HSDPA Subtest-3	22.16	22.29	22.13	23.50	22.34	22.54	22.43	23.70
3GPP Rel 6	HSDPA Subtest-4	21.98	22.23	22.00	23.50	22.48	22.54	22.38	23.70
3GPP Rel 8	DC-HSDPA Subtest-1	22.63	22.64	22.49	24.00	22.97	22.95	22.91	24.20
3GPP Rel 8	DC-HSDPA Subtest-2	22.50	22.66	22.60	24.00	22.90	23.07	22.79	24.20
3GPP Rel 8	DC-HSDPA Subtest-3	22.14	22.26	22.16	23.50	22.52	22.54	22.36	23.70
3GPP Rel 8	DC-HSDPA Subtest-4	22.13	22.09	22.17	23.50	22.39	22.48	22.26	23.70
3GPP Rel 6	HSUPA Subtest-1	22.59	22.67	22.61	24.00	23.00	22.94	22.92	24.20
3GPP Rel 6	HSUPA Subtest-2	20.62	20.67	20.52	22.00	21.00	20.93	20.91	22.20
3GPP Rel 6	HSUPA Subtest-3	21.49	21.60	21.51	23.00	21.96	21.90	21.75	23.20
3GPP Rel 6	HSUPA Subtest-4	20.60	20.71	20.55	22.00	20.93	20.89	20.81	22.20
3GPP Rel 6	HSUPA Subtest-5	22.46	22.66	22.61	24.00	22.92	22.98	22.82	24.20
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.16	20.13	20.05	21.50	20.38	20.49	20.32	21.70





<LTE Band 2_Ant 2_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	23.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.49	22.68	22.47	23.5
20	QPSK	1	49	22.45	22.61	22.41	
20	QPSK	1	99	22.43	22.59	22.42	
20	QPSK	50	0	22.44	22.67	22.38	23.5
20	QPSK	50	24	22.44	22.65	22.46	
20	QPSK	50	50	22.41	22.65	22.38	
20	QPSK	100	0	22.48	22.67	22.37	23.5
20	16QAM	1	0	22.43	22.63	22.37	
20	16QAM	1	49	22.39	22.60	22.47	
20	16QAM	1	99	22.48	22.64	22.45	23
20	16QAM	50	0	21.99	22.09	21.88	
20	16QAM	50	24	21.99	22.11	21.97	
20	16QAM	50	50	21.99	22.10	21.88	23
20	16QAM	100	0	21.93	22.15	21.92	
20	64QAM	1	0	21.95	22.08	21.88	
20	64QAM	1	49	21.94	22.08	21.87	22
20	64QAM	1	99	21.99	22.08	21.95	
20	64QAM	50	0	20.93	21.17	20.96	
20	64QAM	50	24	20.91	21.18	20.94	20
20	64QAM	50	50	20.97	21.13	20.89	
20	64QAM	100	0	20.97	21.11	20.91	
20	256QAM	1	0	18.97	19.13	18.94	20
20	256QAM	1	49	18.94	19.14	18.93	
20	256QAM	1	99	18.96	19.09	18.96	
20	256QAM	50	0	18.96	19.18	18.92	20
20	256QAM	50	24	18.91	19.09	18.93	
20	256QAM	50	50	18.92	19.18	18.89	
20	256QAM	100	0	18.93	19.16	18.88	23.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.40	22.61	22.40	23.5
Channel				18650	18900	19150	23.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.44	22.63	22.37	23.5
Channel				18625	18900	19175	23.5
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.39	22.61	22.42	23.5
Channel				18615	18900	19185	23.5
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.40	22.56	22.39	23.5
Channel				18607	18900	19193	23.5
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.40	22.62	22.35	23.5



<LTE Band 2_Ant 3_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	25
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.25	23.37	23.28	25
20	QPSK	1	49	23.16	23.30	23.20	
20	QPSK	1	99	23.16	23.33	23.27	
20	QPSK	50	0	22.33	22.47	22.36	24
20	QPSK	50	24	22.20	22.38	22.27	
20	QPSK	50	50	22.26	22.44	22.28	
20	QPSK	100	0	22.24	22.40	22.23	24
20	16QAM	1	0	22.28	22.44	22.28	
20	16QAM	1	49	22.24	22.35	22.28	
20	16QAM	1	99	22.20	22.30	22.28	23
20	16QAM	50	0	21.15	21.30	21.24	
20	16QAM	50	24	21.20	21.32	21.27	
20	16QAM	50	50	21.16	21.27	21.20	23
20	16QAM	100	0	21.21	21.34	21.26	
20	64QAM	1	0	21.23	21.37	21.26	
20	64QAM	1	49	21.18	21.29	21.26	23
20	64QAM	1	99	21.20	21.30	21.26	
20	64QAM	50	0	20.22	20.33	20.21	
20	64QAM	50	24	20.17	20.28	20.27	22
20	64QAM	50	50	20.16	20.32	20.25	
20	64QAM	100	0	20.22	20.29	20.26	
20	256QAM	1	0	18.11	18.32	18.22	20
20	256QAM	1	49	18.24	18.35	18.27	
20	256QAM	1	99	18.22	18.29	18.18	
20	256QAM	50	0	18.16	18.35	18.28	20
20	256QAM	50	24	18.18	18.32	18.25	
20	256QAM	50	50	18.18	18.29	18.27	
20	256QAM	100	0	18.23	18.28	18.25	20
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.19	23.33	23.19	25
Channel				18650	18900	19150	25
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.19	23.29	23.21	25
Channel				18625	18900	19175	25
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.18	23.30	23.24	25
Channel				18615	18900	19185	25
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.21	23.29	23.21	25
Channel				18607	18900	19193	25
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.18	23.28	23.21	25



<LTE Band 2_Ant 4_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	21.54	21.85	21.58	23.5
20	QPSK	1	49	21.54	21.83	21.52	
20	QPSK	1	99	21.52	21.63	21.53	
20	QPSK	50	0	20.52	20.71	20.63	22.5
20	QPSK	50	24	20.52	20.59	20.54	
20	QPSK	50	50	20.55	20.55	20.53	
20	QPSK	100	0	20.57	20.67	20.57	
20	16QAM	1	0	20.50	20.67	20.60	22.5
20	16QAM	1	49	20.65	20.76	20.78	
20	16QAM	1	99	20.71	20.77	20.70	
20	16QAM	50	0	19.73	19.84	19.75	21.5
20	16QAM	50	24	19.69	19.85	19.75	
20	16QAM	50	50	19.72	19.85	19.76	
20	16QAM	100	0	19.73	19.79	19.76	
20	64QAM	1	0	19.60	19.79	19.67	21.5
20	64QAM	1	49	19.73	19.80	19.70	
20	64QAM	1	99	19.64	19.79	19.76	
20	64QAM	50	0	18.68	18.79	18.68	20.5
20	64QAM	50	24	18.73	18.77	18.75	
20	64QAM	50	50	18.68	18.79	18.74	
20	64QAM	100	0	18.74	18.76	18.70	
20	256QAM	1	0	16.55	16.57	16.58	18.5
20	256QAM	1	49	16.64	16.80	16.72	
20	256QAM	1	99	16.73	16.79	16.72	
20	256QAM	50	0	16.71	16.76	16.75	18.5
20	256QAM	50	24	16.70	16.82	16.72	
20	256QAM	50	50	16.74	16.83	16.71	
20	256QAM	100	0	16.64	16.79	16.72	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.50	21.78	21.52	23.5
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.53	21.80	21.55	23.5
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.53	21.82	21.55	23.5
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.52	21.84	21.53	23.5
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.51	21.79	21.57	23.5



<LTE Band 2_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	25
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.46	23.60	23.56	25
20	QPSK	1	49	23.37	23.48	23.50	
20	QPSK	1	99	23.39	23.47	23.55	
20	QPSK	50	0	22.26	22.45	22.41	24
20	QPSK	50	24	22.15	22.31	22.19	
20	QPSK	50	50	22.25	22.43	22.34	
20	QPSK	100	0	22.22	22.45	22.39	24
20	16QAM	1	0	22.41	22.55	22.42	
20	16QAM	1	49	22.38	22.59	22.53	
20	16QAM	1	99	22.39	22.60	22.55	23
20	16QAM	50	0	21.44	21.60	21.55	
20	16QAM	50	24	21.37	21.54	21.52	
20	16QAM	50	50	21.36	21.52	21.55	23
20	16QAM	100	0	21.42	21.51	21.56	
20	64QAM	1	0	21.42	21.59	21.55	
20	64QAM	1	49	21.43	21.51	21.50	23
20	64QAM	1	99	21.38	21.52	21.46	
20	64QAM	50	0	20.36	20.54	20.56	
20	64QAM	50	24	20.40	20.54	20.47	22
20	64QAM	50	50	20.36	20.52	20.47	
20	64QAM	100	0	20.46	20.55	20.48	
20	256QAM	1	0	18.36	18.50	18.45	20
20	256QAM	1	49	18.45	18.58	18.55	
20	256QAM	1	99	18.36	18.56	18.51	
20	256QAM	50	0	18.45	18.59	18.47	20
20	256QAM	50	24	18.43	18.50	18.46	
20	256QAM	50	50	18.38	18.54	18.56	
20	256QAM	100	0	18.38	18.57	18.47	20
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.43	23.55	23.51	25
Channel				18650	18900	19150	25
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.41	23.58	23.51	25
Channel				18625	18900	19175	25
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.41	23.58	23.54	25
Channel				18615	18900	19185	25
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.44	23.58	23.52	25
Channel				18607	18900	19193	25
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.44	23.58	23.54	25



<LTE Band 4_Ant 2_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	21.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.36	21.41	21.29	
20	QPSK	1	49	21.35	21.34	21.26	21.7
20	QPSK	1	99	21.27	21.38	21.25	
20	QPSK	50	0	21.35	21.34	21.25	
20	QPSK	50	24	21.27	21.32	21.28	21.7
20	QPSK	50	50	21.28	21.36	21.28	
20	QPSK	100	0	21.31	21.33	21.26	
20	16QAM	1	0	21.34	21.31	21.21	21.7
20	16QAM	1	49	21.36	21.38	21.29	
20	16QAM	1	99	21.34	21.32	21.27	
20	16QAM	50	0	21.34	21.36	21.24	21.7
20	16QAM	50	24	21.27	21.35	21.24	
20	16QAM	50	50	21.32	21.35	21.20	
20	16QAM	100	0	21.29	21.39	21.22	21.7
20	64QAM	1	0	21.36	21.34	21.28	
20	64QAM	1	49	21.26	21.34	21.26	
20	64QAM	1	99	21.30	21.40	21.23	21.7
20	64QAM	50	0	21.34	21.37	21.26	
20	64QAM	50	24	21.34	21.37	21.27	
20	64QAM	50	50	21.35	21.40	21.22	20.7
20	64QAM	100	0	21.33	21.36	21.23	
20	256QAM	1	0	20.35	20.33	20.19	
20	256QAM	1	49	20.32	20.32	20.25	20.7
20	256QAM	1	99	20.29	20.41	20.26	
20	256QAM	50	0	20.32	20.41	20.20	
20	256QAM	50	24	20.35	20.35	20.24	20.7
20	256QAM	50	50	20.34	20.37	20.29	
20	256QAM	100	0	20.26	20.38	20.19	
Channel				20025	20175	20325	21.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.25	21.30	21.19	21.7
Channel				20000	20175	20350	21.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.26	21.37	21.22	21.7
Channel				19975	20175	20375	21.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	21.28	21.37	21.21	21.7
Channel				19965	20175	20385	21.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.26	21.34	21.22	21.7
Channel				19957	20175	20393	21.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.26	21.32	21.21	21.7



<LTE Band 4_Ant 2_DSI 4_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	22.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.09	21.12	21.11	
20	QPSK	1	49	21.05	21.05	21.08	22.5
20	QPSK	1	99	21.08	21.02	21.00	
20	QPSK	50	0	21.06	21.06	21.03	
20	QPSK	50	24	21.08	21.04	21.03	22.5
20	QPSK	50	50	21.00	21.03	21.05	
20	QPSK	100	0	21.08	21.09	21.03	
20	16QAM	1	0	20.98	21.02	21.05	22.5
20	16QAM	1	49	21.00	21.04	21.06	
20	16QAM	1	99	20.98	21.06	21.06	
20	16QAM	50	0	21.06	21.07	21.05	22.5
20	16QAM	50	24	21.00	21.09	21.08	
20	16QAM	50	50	21.04	21.02	21.08	
20	16QAM	100	0	21.05	21.03	21.01	22.5
20	64QAM	1	0	21.08	21.10	21.08	
20	64QAM	1	49	21.08	21.11	21.10	
20	64QAM	1	99	21.01	21.05	21.01	21.5
20	64QAM	50	0	20.07	20.09	20.05	
20	64QAM	50	24	20.06	20.11	20.04	
20	64QAM	50	50	20.08	20.09	20.07	19.5
20	64QAM	100	0	20.01	20.06	20.09	
20	256QAM	1	0	18.01	18.01	18.03	
20	256QAM	1	49	18.02	18.03	18.05	19.5
20	256QAM	1	99	18.03	18.06	18.03	
20	256QAM	50	0	18.04	18.04	18.00	
20	256QAM	50	24	18.07	18.11	18.00	19.5
20	256QAM	50	50	18.07	18.11	18.10	
20	256QAM	100	0	17.99	18.02	18.00	
Channel				20025	20175	20325	22.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	21.01	21.04	20.97	
Channel				20000	20175	20350	22.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.95	21.06	21.01	
Channel				19975	20175	20375	22.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.96	21.03	20.97	
Channel				19965	20175	20385	22.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	21.00	20.99	21.01	
Channel				19957	20175	20393	22.5
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.98	21.05	20.99	



<LTE Band 4_Ant 3_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.15	24.32	24.15	
20	QPSK	1	49	24.13	24.30	24.13	24.7
20	QPSK	1	99	24.14	24.06	24.15	
20	QPSK	50	0	22.98	23.25	23.04	
20	QPSK	50	24	22.99	23.24	23.01	24.7
20	QPSK	50	50	22.97	23.24	22.99	
20	QPSK	100	0	23.10	23.36	23.16	
20	16QAM	1	0	23.26	23.43	23.24	24.7
20	16QAM	1	49	23.06	23.31	23.11	
20	16QAM	1	99	23.05	23.28	23.10	
20	16QAM	50	0	22.08	22.24	22.06	23.7
20	16QAM	50	24	22.12	22.26	22.14	
20	16QAM	50	50	22.07	22.30	22.12	
20	16QAM	100	0	22.11	22.23	22.09	23.7
20	64QAM	1	0	22.09	22.36	22.10	
20	64QAM	1	49	22.07	22.22	22.11	
20	64QAM	1	99	22.07	22.27	22.06	22.7
20	64QAM	50	0	21.15	21.25	21.12	
20	64QAM	50	24	21.14	21.24	21.07	
20	64QAM	50	50	21.10	21.26	21.12	20.7
20	64QAM	100	0	21.05	21.27	21.09	
20	256QAM	1	0	19.25	19.46	19.25	
20	256QAM	1	49	19.13	19.26	19.09	20.7
20	256QAM	1	99	19.08	19.22	19.12	
20	256QAM	50	0	19.14	19.31	19.10	
20	256QAM	50	24	19.14	19.23	19.05	20.7
20	256QAM	50	50	19.14	19.31	19.10	
20	256QAM	100	0	19.06	19.31	19.06	
Channel				20025	20175	20325	25.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.12	24.29	24.10	
Channel				20000	20175	20350	25.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.10	24.28	24.10	
Channel				19975	20175	20375	25.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.08	24.28	24.07	
Channel				19965	20175	20385	25.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.12	24.25	24.12	
Channel				19957	20175	20393	25.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.11	24.27	24.10	



<LTE Band 4_Ant 3_DSI 4_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	25.00	25.03	25.01	
20	QPSK	1	49	24.94	24.91	24.99	24.7
20	QPSK	1	99	24.99	24.93	24.94	
20	QPSK	50	0	24.02	24.09	24.06	
20	QPSK	50	24	23.91	23.94	23.85	24.7
20	QPSK	50	50	23.93	24.03	24.01	
20	QPSK	100	0	23.99	24.03	23.94	
20	16QAM	1	0	24.08	24.11	24.09	24.7
20	16QAM	1	49	23.99	23.93	23.98	
20	16QAM	1	99	23.98	23.94	23.98	
20	16QAM	50	0	22.95	23.01	22.94	23.7
20	16QAM	50	24	22.97	22.97	22.94	
20	16QAM	50	50	22.96	23.02	23.00	
20	16QAM	100	0	22.91	22.96	22.98	23.7
20	64QAM	1	0	22.97	23.01	22.91	
20	64QAM	1	49	22.98	22.99	22.97	
20	64QAM	1	99	22.99	22.93	22.98	22.7
20	64QAM	50	0	21.99	22.01	21.97	
20	64QAM	50	24	21.99	21.99	21.94	
20	64QAM	50	50	21.90	22.00	22.01	20.7
20	64QAM	100	0	21.94	21.94	21.94	
20	256QAM	1	0	19.72	19.79	19.69	
20	256QAM	1	49	19.94	19.94	19.95	20.7
20	256QAM	1	99	19.91	19.96	19.92	
20	256QAM	50	0	20.00	19.93	19.93	
20	256QAM	50	24	20.00	19.99	19.99	20.7
20	256QAM	50	50	19.95	19.99	20.00	
20	256QAM	100	0	19.94	20.00	19.93	
Channel				20025	20175	20325	25.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.96	24.97	24.97	
Channel				20000	20175	20350	25.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.93	24.95	24.98	
Channel				19975	20175	20375	25.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.96	25.01	24.96	
Channel				19965	20175	20385	25.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.96	24.96	24.99	
Channel				19957	20175	20393	25.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.95	24.97	24.96	





<LTE Band 4_Ant 4_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.48	22.55	22.41	
20	QPSK	1	49	22.42	22.39	22.31	24
20	QPSK	1	99	22.46	22.51	22.35	
20	QPSK	50	0	21.84	21.94	21.74	
20	QPSK	50	24	21.66	21.74	21.59	23
20	QPSK	50	50	21.84	21.92	21.73	
20	QPSK	100	0	21.64	21.79	21.64	
20	16QAM	1	0	21.86	21.95	21.76	23
20	16QAM	1	49	21.42	21.55	21.32	
20	16QAM	1	99	21.38	21.45	21.40	
20	16QAM	50	0	20.40	20.54	20.32	22
20	16QAM	50	24	20.44	20.55	20.31	
20	16QAM	50	50	20.46	20.51	20.37	
20	16QAM	100	0	20.44	20.48	20.36	22
20	64QAM	1	0	20.49	20.63	20.41	
20	64QAM	1	49	20.44	20.50	20.31	
20	64QAM	1	99	20.38	20.52	20.35	21
20	64QAM	50	0	19.43	19.49	19.41	
20	64QAM	50	24	19.48	19.54	19.38	
20	64QAM	50	50	19.38	19.52	19.40	19
20	64QAM	100	0	19.47	19.48	19.37	
20	256QAM	1	0	17.63	17.78	17.64	
20	256QAM	1	49	17.48	17.48	17.31	19
20	256QAM	1	99	17.44	17.52	17.34	
20	256QAM	50	0	17.38	17.55	17.41	
20	256QAM	50	24	17.38	17.53	17.37	19
20	256QAM	50	50	17.43	17.46	17.31	
20	256QAM	100	0	17.44	17.51	17.38	
Channel				20025	20175	20325	24
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.44	22.51	22.39	
Channel				20000	20175	20350	24
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.38	22.53	22.39	
Channel				19975	20175	20375	24
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.42	22.45	22.37	
Channel				19965	20175	20385	24
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.43	22.45	22.37	
Channel				19957	20175	20393	24
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.44	22.53	22.37	



<LTE Band 4_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.7
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	24.38	24.60	24.44	25.7
20	QPSK	1	49	24.31	24.46	24.44	
20	QPSK	1	99	24.28	24.50	24.42	
20	QPSK	50	0	23.36	23.59	23.39	24.7
20	QPSK	50	24	23.10	23.40	23.22	
20	QPSK	50	50	23.13	23.41	23.18	
20	QPSK	100	0	23.20	23.49	23.29	
20	16QAM	1	0	23.47	23.69	23.48	24.7
20	16QAM	1	49	23.32	23.58	23.44	
20	16QAM	1	99	23.38	23.50	23.40	
20	16QAM	50	0	22.35	22.56	22.35	23.7
20	16QAM	50	24	22.32	22.58	22.36	
20	16QAM	50	50	22.36	22.50	22.36	
20	16QAM	100	0	22.28	22.53	22.38	
20	64QAM	1	0	22.41	22.67	22.51	23.7
20	64QAM	1	49	22.36	22.58	22.40	
20	64QAM	1	99	22.37	22.57	22.34	
20	64QAM	50	0	21.30	21.53	21.42	22.7
20	64QAM	50	24	21.32	21.57	21.37	
20	64QAM	50	50	21.34	21.56	21.37	
20	64QAM	100	0	21.30	21.50	21.34	
20	256QAM	1	0	19.37	19.62	19.41	20.7
20	256QAM	1	49	19.34	19.59	19.42	
20	256QAM	1	99	19.31	19.52	19.43	
20	256QAM	50	0	19.37	19.53	19.39	20.7
20	256QAM	50	24	19.32	19.51	19.43	
20	256QAM	50	50	19.34	19.50	19.36	
20	256QAM	100	0	19.31	19.52	19.44	
Channel				20025	20175	20325	25.7
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	24.35	24.53	24.40	25.7
Channel				20000	20175	20350	25.7
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	24.34	24.56	24.41	25.7
Channel				19975	20175	20375	25.7
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	24.33	24.56	24.42	25.7
Channel				19965	20175	20385	25.7
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	24.29	24.52	24.42	25.7
Channel				19957	20175	20393	25.7
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	24.32	24.53	24.42	25.7



<LTE Band 4_Ant 5_DSI 4_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	25.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	25.13	25.19	25.17	
20	QPSK	1	49	25.12	25.05	25.08	24.5
20	QPSK	1	99	25.13	25.10	25.17	
20	QPSK	50	0	24.18	24.26	24.20	
20	QPSK	50	24	24.00	24.16	24.12	24.5
20	QPSK	50	50	24.02	24.17	24.05	
20	QPSK	100	0	24.10	24.21	24.18	
20	16QAM	1	0	24.07	24.14	24.07	24.5
20	16QAM	1	49	24.05	24.09	24.13	
20	16QAM	1	99	24.08	24.10	24.11	
20	16QAM	50	0	23.11	23.11	23.07	23.5
20	16QAM	50	24	23.09	23.09	23.11	
20	16QAM	50	50	23.10	23.12	23.16	
20	16QAM	100	0	23.04	23.15	23.10	23.5
20	64QAM	1	0	23.06	23.22	23.15	
20	64QAM	1	49	23.03	23.10	23.12	
20	64QAM	1	99	23.09	23.17	23.14	22.5
20	64QAM	50	0	22.10	22.10	22.14	
20	64QAM	50	24	22.12	22.19	22.13	
20	64QAM	50	50	22.06	22.12	22.09	20.5
20	64QAM	100	0	22.05	22.11	22.10	
20	256QAM	1	0	20.12	20.21	20.18	
20	256QAM	1	49	20.08	20.13	20.17	20.5
20	256QAM	1	99	20.10	20.19	20.17	
20	256QAM	50	0	20.08	20.11	20.08	
20	256QAM	50	24	20.07	20.10	20.10	20.5
20	256QAM	50	50	20.13	20.16	20.11	
20	256QAM	100	0	20.04	20.14	20.15	
Channel				20025	20175	20325	25.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	25.08	25.12	25.15	
Channel				20000	20175	20350	25.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	25.05	25.16	25.12	
Channel				19975	20175	20375	25.5
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	25.05	25.09	25.11	
Channel				19965	20175	20385	25.5
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	25.06	25.10	25.15	
Channel				19957	20175	20393	25.5
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	25.05	25.15	25.09	



<LTE Band 5_Ant 0_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	25.7
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.01	25.05	24.93	25.7
10	QPSK	1	25	24.92	24.97	24.86	
10	QPSK	1	49	24.89	24.94	24.82	
10	QPSK	25	0	24.22	24.24	24.18	24.7
10	QPSK	25	12	24.17	24.22	24.12	
10	QPSK	25	25	24.16	24.19	24.11	
10	QPSK	50	0	24.14	24.20	24.18	24.7
10	16QAM	1	0	24.26	24.35	24.20	
10	16QAM	1	25	24.18	24.25	24.10	
10	16QAM	1	49	24.14	24.18	24.10	23.7
10	16QAM	25	0	23.02	23.12	23.05	
10	16QAM	25	12	23.06	23.05	22.94	
10	16QAM	25	25	23.02	23.05	22.92	23.7
10	16QAM	50	0	22.99	23.07	23.07	
10	64QAM	1	0	23.10	23.09	23.01	
10	64QAM	1	25	22.93	23.00	22.89	23.7
10	64QAM	1	49	22.97	23.03	22.84	
10	64QAM	25	0	22.03	22.08	22.05	
10	64QAM	25	12	22.06	22.10	21.99	22.7
10	64QAM	25	25	21.98	22.02	22.00	
10	64QAM	50	0	22.04	22.01	22.01	
10	256QAM	1	0	20.08	20.23	20.09	20.7
10	256QAM	1	25	19.99	20.09	19.96	
10	256QAM	1	49	20.01	20.00	19.99	
10	256QAM	25	0	20.04	20.04	20.03	20.7
10	256QAM	25	12	20.04	20.04	19.94	
10	256QAM	25	25	19.98	20.04	19.94	
10	256QAM	50	0	20.04	20.06	20.04	20.7
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	24.84	24.95	24.74	25.7
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.84	24.94	24.74	25.7
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.85	24.88	24.83	25.7



<LTE Band 5_Ant 0_DSI 4_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	25.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	25.21	25.30	25.25	
10	QPSK	1	25	25.16	25.23	25.18	24.5
10	QPSK	1	49	25.20	25.15	25.22	
10	QPSK	25	0	24.16	24.25	24.12	
10	QPSK	25	12	24.01	24.12	24.03	24.5
10	QPSK	25	25	24.04	24.22	24.12	
10	QPSK	50	0	24.08	24.22	24.14	
10	16QAM	1	0	24.14	24.30	24.21	24.5
10	16QAM	1	25	24.12	24.30	24.17	
10	16QAM	1	49	24.16	24.28	24.18	
10	16QAM	25	0	23.19	23.21	23.18	23.5
10	16QAM	25	12	23.14	23.23	23.24	
10	16QAM	25	25	23.21	23.24	23.22	
10	16QAM	50	0	23.19	23.21	23.18	23.5
10	64QAM	1	0	23.23	23.40	23.29	
10	64QAM	1	25	23.21	23.22	23.17	
10	64QAM	1	49	23.19	23.24	23.19	22.5
10	64QAM	25	0	22.14	22.30	22.24	
10	64QAM	25	12	22.20	22.28	22.17	
10	64QAM	25	25	22.19	22.22	22.15	20.5
10	64QAM	50	0	22.12	22.25	22.16	
10	256QAM	1	0	19.98	20.10	19.95	
10	256QAM	1	25	20.14	20.24	20.19	20.5
10	256QAM	1	49	20.19	20.21	20.17	
10	256QAM	25	0	20.14	20.29	20.23	
10	256QAM	25	12	20.11	20.26	20.15	20.5
10	256QAM	25	25	20.19	20.27	20.22	
10	256QAM	50	0	20.16	20.30	20.20	
Channel				20425	20525	20625	25.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	25.01	25.10	25.14	25.5
Channel				20415	20525	20635	25.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	25.06	25.14	25.11	25.5
Channel				20407	20525	20643	25.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	25.06	25.18	25.12	25.5



<LTE Band 5_Ant 1_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	25.7
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.31	24.38	24.36	
10	QPSK	1	25	24.28	24.30	24.35	24.7
10	QPSK	1	49	24.27	24.30	24.35	
10	QPSK	25	0	23.51	23.60	23.54	
10	QPSK	25	12	23.42	23.55	23.52	24.7
10	QPSK	25	25	23.41	23.50	23.38	
10	QPSK	50	0	23.50	23.57	23.47	
10	16QAM	1	0	23.49	23.66	23.60	24.7
10	16QAM	1	25	23.24	23.28	23.30	
10	16QAM	1	49	23.30	23.38	23.34	
10	16QAM	25	0	22.28	22.36	22.30	23.7
10	16QAM	25	12	22.21	22.35	22.33	
10	16QAM	25	25	22.31	22.32	22.29	
10	16QAM	50	0	22.22	22.36	22.28	23.7
10	64QAM	1	0	22.38	22.45	22.34	
10	64QAM	1	25	22.28	22.29	22.31	
10	64QAM	1	49	22.26	22.37	22.35	22.7
10	64QAM	25	0	21.30	21.36	21.28	
10	64QAM	25	12	21.21	21.34	21.28	
10	64QAM	25	25	21.21	21.38	21.28	20.7
10	64QAM	50	0	21.28	21.34	21.36	
10	256QAM	1	0	19.34	19.47	19.38	
10	256QAM	1	25	19.21	19.31	19.29	20.7
10	256QAM	1	49	19.22	19.38	19.29	
10	256QAM	25	0	19.27	19.38	19.27	
10	256QAM	25	12	19.26	19.38	19.33	20.7
10	256QAM	25	25	19.29	19.35	19.31	
10	256QAM	50	0	19.27	19.29	19.33	
Channel				20425	20525	20625	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.20	24.23	24.18	25.7
Channel				20415	20525	20635	25.7
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.21	24.22	24.25	25.7
Channel				20407	20525	20643	25.7
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.15	24.25	24.24	25.7



<LTE Band 5_Ant 1_DSI 4_Other PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	25.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.49	24.51	24.45	
10	QPSK	1	25	24.39	24.36	24.43	24.5
10	QPSK	1	49	24.45	24.36	24.44	
10	QPSK	25	0	23.33	23.45	23.37	
10	QPSK	25	12	23.31	23.37	23.24	24.5
10	QPSK	25	25	23.23	23.28	23.17	
10	QPSK	50	0	23.22	23.32	23.16	
10	16QAM	1	0	23.47	23.49	23.33	24.5
10	16QAM	1	25	23.44	23.49	23.45	
10	16QAM	1	49	23.44	23.46	23.42	
10	16QAM	25	0	22.47	22.42	22.45	23.5
10	16QAM	25	12	22.45	22.50	22.42	
10	16QAM	25	25	22.40	22.51	22.43	
10	16QAM	50	0	22.45	22.49	22.43	23.5
10	64QAM	1	0	22.56	22.62	22.49	
10	64QAM	1	25	22.44	22.46	22.40	
10	64QAM	1	49	22.39	22.44	22.39	22.5
10	64QAM	25	0	21.49	21.51	21.45	
10	64QAM	25	12	21.49	21.42	21.44	
10	64QAM	25	25	21.47	21.49	21.42	20.5
10	64QAM	50	0	21.44	21.49	21.39	
10	256QAM	1	0	19.48	19.52	19.46	
10	256QAM	1	25	19.40	19.43	19.45	20.5
10	256QAM	1	49	19.41	19.46	19.45	
10	256QAM	25	0	19.39	19.44	19.42	
10	256QAM	25	12	19.49	19.46	19.38	20.5
10	256QAM	25	25	19.46	19.49	19.35	
10	256QAM	50	0	19.49	19.51	19.35	
Channel				20425	20525	20625	25.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.37	24.42	24.34	25.5
Channel				20415	20525	20635	25.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.38	24.41	24.38	25.5
Channel				20407	20525	20643	25.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.37	24.45	24.34	25.5



<LTE Band 7_Ant 2_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.91	20.06	19.89	20.2
20	QPSK	1	49	19.81	19.96	19.82	
20	QPSK	1	99	19.88	20.02	19.80	
20	QPSK	50	0	19.80	19.95	19.82	20.2
20	QPSK	50	24	19.80	20.02	19.83	
20	QPSK	50	50	19.84	20.04	19.83	
20	QPSK	100	0	19.88	20.02	19.88	
20	16QAM	1	0	19.80	20.01	19.78	20.2
20	16QAM	1	49	19.89	19.99	19.87	
20	16QAM	1	99	19.84	20.04	19.85	
20	16QAM	50	0	19.82	20.05	19.86	20.2
20	16QAM	50	24	19.80	20.05	19.86	
20	16QAM	50	50	19.87	19.96	19.86	
20	16QAM	100	0	19.80	20.02	19.86	
20	64QAM	1	0	19.81	20.00	19.80	20.2
20	64QAM	1	49	19.82	20.03	19.80	
20	64QAM	1	99	19.88	20.04	19.81	
20	64QAM	50	0	19.83	20.00	19.87	20.2
20	64QAM	50	24	19.86	20.04	19.83	
20	64QAM	50	50	19.88	20.01	19.79	
20	64QAM	100	0	19.89	20.00	19.85	
20	256QAM	1	0	19.89	20.05	19.80	20.2
20	256QAM	1	49	19.85	20.03	19.78	
20	256QAM	1	99	19.81	20.05	19.80	
20	256QAM	50	0	19.86	19.98	19.78	20.2
20	256QAM	50	24	19.82	20.01	19.88	
20	256QAM	50	50	19.82	20.04	19.79	
20	256QAM	100	0	19.90	19.95	19.83	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.83	20.02	19.80	20.2
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.88	20.03	19.86	20.2
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	19.89	20.04	19.83	20.2





<LTE Band 7_Ant 3_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	25.7
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.54	24.70	24.58	
20	QPSK	1	49	24.50	24.47	24.56	24.7
20	QPSK	1	99	24.44	24.61	24.49	
20	QPSK	50	0	23.71	23.93	23.71	
20	QPSK	50	24	23.56	23.76	23.60	24.7
20	QPSK	50	50	23.53	23.78	23.59	
20	QPSK	100	0	23.65	23.84	23.69	
20	16QAM	1	0	23.78	23.98	23.77	24.7
20	16QAM	1	49	23.49	23.68	23.51	
20	16QAM	1	99	23.49	23.65	23.57	
20	16QAM	50	0	22.48	22.63	22.48	23.7
20	16QAM	50	24	22.52	22.64	22.54	
20	16QAM	50	50	22.51	22.66	22.51	
20	16QAM	100	0	22.54	22.60	22.51	23.7
20	64QAM	1	0	22.61	22.84	22.70	
20	64QAM	1	49	22.47	22.67	22.48	
20	64QAM	1	99	22.54	22.62	22.49	22.7
20	64QAM	50	0	21.51	21.67	21.53	
20	64QAM	50	24	21.51	21.68	21.53	
20	64QAM	50	50	21.47	21.68	21.51	20.7
20	64QAM	100	0	21.51	21.68	21.50	
20	256QAM	1	0	19.62	19.78	19.57	
20	256QAM	1	49	19.44	19.62	19.57	20.7
20	256QAM	1	99	19.47	19.63	19.52	
20	256QAM	50	0	19.54	19.68	19.58	
20	256QAM	50	24	19.46	19.65	19.53	20.7
20	256QAM	50	50	19.49	19.69	19.50	
20	256QAM	100	0	19.44	19.66	19.58	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	24.50	24.67	24.51	25.7
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	24.45	24.62	24.48	25.7
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	24.44	24.65	24.53	25.7



<LTE Band 7_Ant 4_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	24
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.47	22.59	22.46	
20	QPSK	1	49	22.45	22.41	22.41	23
20	QPSK	1	99	22.45	22.58	22.37	
20	QPSK	50	0	21.53	21.65	21.49	
20	QPSK	50	24	21.46	21.62	21.40	23
20	QPSK	50	50	21.47	21.60	21.44	
20	QPSK	100	0	21.40	21.61	21.42	
20	16QAM	1	0	21.43	21.60	21.37	23
20	16QAM	1	49	21.44	21.55	21.36	
20	16QAM	1	99	21.45	21.50	21.40	
20	16QAM	50	0	20.46	20.59	20.43	22
20	16QAM	50	24	20.45	20.55	20.38	
20	16QAM	50	50	20.37	20.51	20.44	
20	16QAM	100	0	20.40	20.52	20.41	22
20	64QAM	1	0	20.61	20.79	20.60	
20	64QAM	1	49	20.41	20.56	20.42	
20	64QAM	1	99	20.38	20.57	20.38	21
20	64QAM	50	0	19.47	19.53	19.40	
20	64QAM	50	24	19.41	19.55	19.46	
20	64QAM	50	50	19.45	19.56	19.43	19
20	64QAM	100	0	19.44	19.52	19.43	
20	256QAM	1	0	17.48	17.70	17.51	
20	256QAM	1	49	17.44	17.50	17.40	19
20	256QAM	1	99	17.37	17.51	17.36	
20	256QAM	50	0	17.39	17.55	17.46	
20	256QAM	50	24	17.44	17.51	17.40	19
20	256QAM	50	50	17.42	17.51	17.37	
20	256QAM	100	0	17.47	17.54	17.44	
Channel				20825	21100	21375	24
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.43	22.51	22.42	24
Channel				20800	21100	21400	24
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.40	22.51	22.38	24
Channel				20775	21100	21425	24
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.40	22.53	22.41	24



<LTE Band 7_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	25.7
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	25.13	25.14	25.08	
20	QPSK	1	49	25.05	25.01	25.05	24.7
20	QPSK	1	99	25.08	25.00	25.00	
20	QPSK	50	0	24.17	24.27	24.14	
20	QPSK	50	24	24.20	24.25	24.09	24.7
20	QPSK	50	50	24.15	24.24	24.13	
20	QPSK	100	0	24.01	24.09	23.98	
20	16QAM	1	0	24.40	24.45	24.39	24.7
20	16QAM	1	49	24.08	24.05	24.03	
20	16QAM	1	99	24.03	24.06	24.07	
20	16QAM	50	0	23.07	23.13	23.04	23.7
20	16QAM	50	24	23.08	23.09	23.02	
20	16QAM	50	50	23.11	23.10	23.08	
20	16QAM	100	0	23.03	23.06	23.02	23.7
20	64QAM	1	0	23.33	23.40	23.24	
20	64QAM	1	49	23.03	23.07	23.08	
20	64QAM	1	99	23.13	23.09	22.98	22.7
20	64QAM	50	0	22.04	22.14	22.03	
20	64QAM	50	24	22.08	22.06	21.99	
20	64QAM	50	50	22.06	22.12	22.05	20.7
20	64QAM	100	0	22.12	22.08	22.04	
20	256QAM	1	0	20.36	20.37	20.27	
20	256QAM	1	49	20.09	20.08	20.05	20.7
20	256QAM	1	99	20.03	20.14	20.06	
20	256QAM	50	0	20.03	20.11	20.04	
20	256QAM	50	24	20.07	20.06	20.01	20.7
20	256QAM	50	50	20.11	20.06	20.04	
20	256QAM	100	0	20.04	20.09	20.04	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	25.06	25.07	25.06	25.7
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	25.10	25.09	25.00	25.7
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	25.08	25.12	25.01	25.7



<LTE Band 12_Ant 0_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.84	23.97	23.88	
10	QPSK	1	25	23.82	23.91	23.85	25
10	QPSK	1	49	23.79	23.86	23.81	
10	QPSK	25	0	23.09	23.12	23.08	
10	QPSK	25	12	23.01	23.11	23.00	24
10	QPSK	25	25	23.00	23.07	23.05	
10	QPSK	50	0	23.10	23.12	23.09	
10	16QAM	1	0	22.78	22.85	22.79	24
10	16QAM	1	25	22.75	22.87	22.80	
10	16QAM	1	49	22.83	22.79	22.84	
10	16QAM	25	0	21.79	21.83	21.75	23
10	16QAM	25	12	21.83	21.79	21.76	
10	16QAM	25	25	21.77	21.87	21.77	
10	16QAM	50	0	21.81	21.81	21.77	23
10	64QAM	1	0	21.80	21.83	21.85	
10	64QAM	1	25	21.76	21.87	21.75	
10	64QAM	1	49	21.74	21.85	21.78	22
10	64QAM	25	0	20.77	20.81	20.77	
10	64QAM	25	12	20.76	20.81	20.84	
10	64QAM	25	25	20.83	20.80	20.76	20
10	64QAM	50	0	20.80	20.81	20.84	
10	256QAM	1	0	18.77	18.82	18.78	
10	256QAM	1	25	18.79	18.85	18.80	20
10	256QAM	1	49	18.79	18.85	18.79	
10	256QAM	25	0	18.84	18.89	18.79	
10	256QAM	25	12	18.81	18.81	18.80	20
10	256QAM	25	25	18.81	18.80	18.75	
10	256QAM	50	0	18.83	18.83	18.81	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.66	23.77	23.74	25
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.73	23.86	23.70	25
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.74	23.85	23.75	25



**<LTE Band 12\_Ant 1\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	25
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.11	23.35	23.25	25
10	QPSK	1	25	23.09	23.28	23.18	
10	QPSK	1	49	23.01	23.26	23.17	
10	QPSK	25	0	22.08	22.28	22.11	24
10	QPSK	25	12	22.02	22.27	22.10	
10	QPSK	25	25	22.05	22.23	22.10	
10	QPSK	50	0	22.01	22.26	22.07	24
10	16QAM	1	0	22.09	22.35	22.15	
10	16QAM	1	25	22.05	22.26	22.22	
10	16QAM	1	49	22.10	22.31	22.25	23
10	16QAM	25	0	21.04	21.26	21.25	
10	16QAM	25	12	21.09	21.32	21.24	
10	16QAM	25	25	21.02	21.31	21.25	23
10	16QAM	50	0	21.09	21.30	21.16	
10	64QAM	1	0	21.10	21.36	21.21	
10	64QAM	1	25	21.09	21.29	21.24	23
10	64QAM	1	49	21.05	21.29	21.17	
10	64QAM	25	0	20.11	20.32	20.17	
10	64QAM	25	12	20.08	20.30	20.15	22
10	64QAM	25	25	20.04	20.31	20.20	
10	64QAM	50	0	20.01	20.34	20.17	
10	256QAM	1	0	18.09	18.22	18.08	20
10	256QAM	1	25	18.07	18.30	18.17	
10	256QAM	1	49	18.01	18.29	18.19	
10	256QAM	25	0	18.11	18.25	18.25	20
10	256QAM	25	12	18.04	18.26	18.20	
10	256QAM	25	25	18.10	18.32	18.25	
10	256QAM	50	0	18.10	18.29	18.23	20
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.06	23.26	23.18	25
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.07	23.27	23.19	25
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.05	23.26	23.23	25



<LTE Band 13_Ant 0_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		24.96		25.7
10	QPSK	1	25		24.88		
10	QPSK	1	49		24.86		
10	QPSK	25	0		24.07		24.7
10	QPSK	25	12		24.06		
10	QPSK	25	25		24.05		
10	QPSK	50	0		24.06		24.7
10	16QAM	1	0		24.12		
10	16QAM	1	25		23.91		
10	16QAM	1	49		23.90		23.7
10	16QAM	25	0		22.90		
10	16QAM	25	12		22.85		
10	16QAM	25	25		22.84		23.7
10	16QAM	50	0		22.88		
10	64QAM	1	0		22.93		
10	64QAM	1	25		22.90		23.7
10	64QAM	1	49		22.88		
10	64QAM	25	0		21.90		
10	64QAM	25	12		21.83		22.7
10	64QAM	25	25		21.93		
10	64QAM	50	0		21.85		
10	256QAM	1	0		19.89		20.7
10	256QAM	1	25		19.85		
10	256QAM	1	49		19.90		
10	256QAM	25	0		19.87		20.7
10	256QAM	25	12		19.87		
10	256QAM	25	25		19.87		
10	256QAM	50	0		19.91		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	24.90	24.95	24.86	25.7



<LTE Band 13_Ant 1_DSI 4_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				23230			25.7	
Frequency (MHz)				782				
10	QPSK	1	0		24.46		25.7	
10	QPSK	1	25		24.35			
10	QPSK	1	49		24.40			
10	QPSK	25	0		23.50		24.7	
10	QPSK	25	12		23.45			
10	QPSK	25	25		23.45			
10	QPSK	50	0		23.47		24.7	
10	16QAM	1	0		23.96			
10	16QAM	1	25		23.37			
10	16QAM	1	49		23.42		23.7	
10	16QAM	25	0		22.36			
10	16QAM	25	12		22.43			
10	16QAM	25	25		22.41		23.7	
10	16QAM	50	0		22.36			
10	64QAM	1	0		22.65			
10	64QAM	1	25		22.38		23.7	
10	64QAM	1	49		22.46			
10	64QAM	25	0		21.45			
10	64QAM	25	12		21.38		22.7	
10	64QAM	25	25		21.36			
10	64QAM	50	0		21.42			
10	256QAM	1	0		19.61		20.7	
10	256QAM	1	25		19.37			
10	256QAM	1	49		19.41			
10	256QAM	25	0		19.39		20.7	
10	256QAM	25	12		19.46			
10	256QAM	25	25		19.37			
10	256QAM	50	0		19.46		20.7	
Channel				23205	23230	23255		Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	24.22	24.35	24.15	25.7	



<LTE Band 17_Ant 0_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.91	23.99	23.97	25
10	QPSK	1	25	23.81	23.88	23.86	
10	QPSK	1	49	23.82	23.93	23.90	
10	QPSK	25	0	23.22	23.27	23.21	24
10	QPSK	25	12	23.10	23.26	23.20	
10	QPSK	25	25	23.11	23.21	23.15	
10	QPSK	50	0	23.22	23.26	23.21	24
10	16QAM	1	0	23.14	23.33	23.21	
10	16QAM	1	25	22.82	22.95	22.88	
10	16QAM	1	49	22.81	22.89	22.92	23
10	16QAM	25	0	21.91	21.91	21.95	
10	16QAM	25	12	21.84	21.88	21.97	
10	16QAM	25	25	21.88	21.95	21.88	23
10	16QAM	50	0	21.85	21.91	21.93	
10	64QAM	1	0	21.86	21.88	21.89	
10	64QAM	1	25	21.90	21.97	21.91	23
10	64QAM	1	49	21.82	21.88	21.91	
10	64QAM	25	0	20.82	20.88	20.88	
10	64QAM	25	12	20.91	20.89	20.95	22
10	64QAM	25	25	20.85	20.94	20.91	
10	64QAM	50	0	20.82	20.90	20.94	
10	256QAM	1	0	18.89	18.97	18.96	20
10	256QAM	1	25	18.82	18.91	18.88	
10	256QAM	1	49	18.85	18.88	18.92	
10	256QAM	25	0	18.85	18.90	18.91	20
10	256QAM	25	12	18.87	18.93	18.88	
10	256QAM	25	25	18.89	18.88	18.95	
10	256QAM	50	0	18.88	18.90	18.92	20
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.81	23.87	23.79	25





<LTE Band 17_Ant 1_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.29	23.31	23.25	25
10	QPSK	1	25	23.21	23.22	23.20	
10	QPSK	1	49	23.25	23.24	23.25	
10	QPSK	25	0	22.42	22.45	22.31	24
10	QPSK	25	12	22.34	22.42	22.35	
10	QPSK	25	25	22.37	22.41	22.25	
10	QPSK	50	0	22.34	22.40	22.29	
10	16QAM	1	0	22.48	22.51	22.37	24
10	16QAM	1	25	22.29	22.29	22.19	
10	16QAM	1	49	22.19	22.24	22.20	
10	16QAM	25	0	21.27	21.30	21.18	23
10	16QAM	25	12	21.25	21.27	21.24	
10	16QAM	25	25	21.29	21.30	21.25	
10	16QAM	50	0	21.29	21.22	21.17	
10	64QAM	1	0	21.43	21.45	21.35	23
10	64QAM	1	25	21.29	21.29	21.15	
10	64QAM	1	49	21.23	21.27	21.19	
10	64QAM	25	0	20.26	20.24	20.18	22
10	64QAM	25	12	20.22	20.25	20.16	
10	64QAM	25	25	20.24	20.29	20.25	
10	64QAM	50	0	20.24	20.22	20.24	
10	256QAM	1	0	18.09	18.15	18.08	20
10	256QAM	1	25	18.24	18.24	18.20	
10	256QAM	1	49	18.26	18.31	18.24	
10	256QAM	25	0	18.26	18.22	18.19	20
10	256QAM	25	12	18.23	18.22	18.16	
10	256QAM	25	25	18.26	18.22	18.15	
10	256QAM	50	0	18.27	18.25	18.19	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.24	23.22	23.17	25



<LTE Band 25_Ant 2_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	23.5
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	22.76	22.81	22.71	23.5
20	QPSK	1	49	22.65	22.76	22.62	
20	QPSK	1	99	22.72	22.75	22.64	
20	QPSK	50	0	22.74	22.76	22.67	23.5
20	QPSK	50	24	22.72	22.73	22.62	
20	QPSK	50	50	22.66	22.72	22.67	
20	QPSK	100	0	22.71	22.71	22.69	23.5
20	16QAM	1	0	22.67	22.78	22.62	
20	16QAM	1	49	22.68	22.71	22.65	
20	16QAM	1	99	22.75	22.75	22.60	23
20	16QAM	50	0	22.15	22.29	22.11	
20	16QAM	50	24	22.25	22.21	22.15	
20	16QAM	50	50	22.22	22.28	22.10	23
20	16QAM	100	0	22.22	22.30	22.16	
20	64QAM	1	0	22.16	22.29	22.15	
20	64QAM	1	49	22.17	22.21	22.14	22
20	64QAM	1	99	22.21	22.25	22.19	
20	64QAM	50	0	21.19	21.26	21.14	
20	64QAM	50	24	21.16	21.21	21.12	20
20	64QAM	50	50	21.15	21.30	21.16	
20	64QAM	100	0	21.15	21.27	21.13	
20	256QAM	1	0	19.24	19.20	19.18	20
20	256QAM	1	49	19.23	19.25	19.16	
20	256QAM	1	99	19.16	19.24	19.16	
20	256QAM	50	0	19.22	19.26	19.13	20
20	256QAM	50	24	19.23	19.26	19.10	
20	256QAM	50	50	19.22	19.30	19.19	
20	256QAM	100	0	19.20	19.29	19.15	23.5
Channel				26115	26340	26615	
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.69	22.74	22.66	23.5
Channel				26090	26340	26640	
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.70	22.73	22.61	23.5
Channel				26065	26340	26665	
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	22.69	22.77	22.63	23.5
Channel				26055	26340	26675	
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.66	22.75	22.62	23.5
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.71	22.73	22.67	23.5



<LTE Band 25_Ant 3_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	25
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.35	23.49	23.45	
20	QPSK	1	49	23.34	23.40	23.35	24
20	QPSK	1	99	23.26	23.39	23.44	
20	QPSK	50	0	22.13	22.31	22.21	
20	QPSK	50	24	22.03	22.23	22.15	24
20	QPSK	50	50	22.05	22.28	22.20	
20	QPSK	100	0	22.18	22.32	22.27	
20	16QAM	1	0	22.20	22.39	22.34	24
20	16QAM	1	49	22.29	22.44	22.39	
20	16QAM	1	99	22.25	22.49	22.39	
20	16QAM	50	0	21.25	21.40	21.37	23
20	16QAM	50	24	21.29	21.48	21.43	
20	16QAM	50	50	21.34	21.43	21.38	
20	16QAM	100	0	21.35	21.48	21.39	23
20	64QAM	1	0	21.33	21.56	21.51	
20	64QAM	1	49	21.26	21.48	21.44	
20	64QAM	1	99	21.33	21.43	21.37	22
20	64QAM	50	0	20.25	20.46	20.36	
20	64QAM	50	24	20.30	20.41	20.44	
20	64QAM	50	50	20.27	20.43	20.40	20
20	64QAM	100	0	20.30	20.46	20.36	
20	256QAM	1	0	18.39	18.54	18.48	
20	256QAM	1	49	18.28	18.40	18.36	20
20	256QAM	1	99	18.33	18.49	18.36	
20	256QAM	50	0	18.34	18.44	18.35	
20	256QAM	50	24	18.27	18.47	18.39	20
20	256QAM	50	50	18.35	18.48	18.36	
20	256QAM	100	0	18.34	18.46	18.41	
Channel				26115	26340	26615	25
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.30	23.43	23.36	
Channel				26090	26340	26640	25
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.27	23.43	23.34	
Channel				26065	26340	26665	25
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.30	23.45	23.39	
Channel				26055	26340	26675	25
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.23	23.40	23.36	
Channel				26047	26340	26683	25
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.25	23.43	23.40	



<LTE Band 25_Ant 4_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	23.5
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	21.73	22.01	21.80	
20	QPSK	1	49	21.68	21.90	21.77	22.5
20	QPSK	1	99	21.64	21.92	21.78	
20	QPSK	50	0	20.53	20.81	20.58	
20	QPSK	50	24	20.59	20.80	20.59	22.5
20	QPSK	50	50	20.55	20.62	20.54	
20	QPSK	100	0	20.53	20.68	20.56	
20	16QAM	1	0	20.64	20.93	20.72	22.5
20	16QAM	1	49	20.65	20.94	20.70	
20	16QAM	1	99	20.64	21.01	20.80	
20	16QAM	50	0	19.67	19.94	19.71	21.5
20	16QAM	50	24	19.65	20.01	19.73	
20	16QAM	50	50	19.72	20.01	19.70	
20	16QAM	100	0	19.64	19.91	19.72	21.5
20	64QAM	1	0	19.63	19.99	19.72	
20	64QAM	1	49	19.67	19.95	19.75	
20	64QAM	1	99	19.66	20.01	19.74	20.5
20	64QAM	50	0	18.66	18.98	18.80	
20	64QAM	50	24	18.64	18.93	18.77	
20	64QAM	50	50	18.71	18.92	18.80	18.5
20	64QAM	100	0	18.67	18.96	18.74	
20	256QAM	1	0	16.61	16.93	16.72	
20	256QAM	1	49	16.68	17.00	16.79	18.5
20	256QAM	1	99	16.64	16.93	16.77	
20	256QAM	50	0	16.67	16.94	16.78	
20	256QAM	50	24	16.70	16.95	16.70	18.5
20	256QAM	50	50	16.65	16.97	16.74	
20	256QAM	100	0	16.72	16.99	16.73	
Channel				26115	26340	26615	23.5
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	21.68	21.93	21.74	
Channel				26090	26340	26640	23.5
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	21.70	21.94	21.74	
Channel				26065	26340	26665	23.5
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	21.67	21.92	21.71	
Channel				26055	26340	26675	23.5
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	21.71	21.93	21.74	
Channel				26047	26340	26683	23.5
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	21.64	21.98	21.74	



<LTE Band 25_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	25
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.41	23.53	23.41	
20	QPSK	1	49	23.34	23.37	23.35	24
20	QPSK	1	99	23.41	23.32	23.36	
20	QPSK	50	0	22.21	22.37	22.16	
20	QPSK	50	24	22.05	22.23	22.02	24
20	QPSK	50	50	22.20	22.36	22.18	
20	QPSK	100	0	22.06	22.22	22.01	
20	16QAM	1	0	22.39	22.56	22.40	24
20	16QAM	1	49	22.39	22.46	22.35	
20	16QAM	1	99	22.41	22.48	22.37	
20	16QAM	50	0	21.38	21.48	21.32	23
20	16QAM	50	24	21.37	21.52	21.40	
20	16QAM	50	50	21.36	21.43	21.36	
20	16QAM	100	0	21.31	21.44	21.31	23
20	64QAM	1	0	21.49	21.69	21.48	
20	64QAM	1	49	21.37	21.51	21.31	
20	64QAM	1	99	21.31	21.44	21.36	22
20	64QAM	50	0	20.38	20.48	20.36	
20	64QAM	50	24	20.37	20.44	20.39	
20	64QAM	50	50	20.32	20.43	20.37	20
20	64QAM	100	0	20.38	20.50	20.38	
20	256QAM	1	0	18.38	18.52	18.32	
20	256QAM	1	49	18.38	18.52	18.37	20
20	256QAM	1	99	18.31	18.52	18.38	
20	256QAM	50	0	18.37	18.51	18.39	
20	256QAM	50	24	18.34	18.48	18.33	20
20	256QAM	50	50	18.39	18.49	18.33	
20	256QAM	100	0	18.31	18.44	18.34	
Channel				26115	26340	26615	25
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.37	23.48	23.33	
Channel				26090	26340	26640	25
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.38	23.45	23.32	
Channel				26065	26340	26665	25
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.37	23.47	23.33	
Channel				26055	26340	26675	25
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	23.34	23.48	23.32	
Channel				26047	26340	26683	25
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.36	23.49	23.33	



<LTE Band 26_Ant 0_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.97	25.03	24.87	
15	QPSK	1	37	24.89	24.92	24.87	24.7
15	QPSK	1	74	24.88	24.93	24.82	
15	QPSK	36	0	24.14	24.15	24.12	
15	QPSK	36	20	24.10	24.12	24.05	24.7
15	QPSK	36	39	24.06	24.08	24.01	
15	QPSK	75	0	24.08	24.11	24.09	
15	16QAM	1	0	23.82	24.02	23.75	24.7
15	16QAM	1	37	23.87	24.03	23.79	
15	16QAM	1	74	23.89	23.94	23.74	
15	16QAM	36	0	22.85	23.03	22.70	23.7
15	16QAM	36	20	22.82	22.98	22.75	
15	16QAM	36	39	22.85	22.98	22.72	
15	16QAM	75	0	22.84	23.03	22.72	23.7
15	64QAM	1	0	22.85	23.00	22.79	
15	64QAM	1	37	22.81	22.98	22.77	
15	64QAM	1	74	22.82	22.98	22.71	22.7
15	64QAM	36	0	21.87	22.00	21.77	
15	64QAM	36	20	21.85	21.94	21.72	
15	64QAM	36	39	21.88	21.97	21.75	20.7
15	64QAM	75	0	21.84	21.96	21.75	
15	256QAM	1	0	19.90	20.00	19.74	
15	256QAM	1	37	19.81	19.98	19.77	20.7
15	256QAM	1	74	19.85	20.00	19.70	
15	256QAM	36	0	19.86	19.93	19.79	
15	256QAM	36	20	19.83	19.96	19.77	20.7
15	256QAM	36	39	19.82	19.93	19.74	
15	256QAM	75	0	19.85	19.95	19.74	
Channel				26740	26865	26990	25.7
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.81	24.84	24.72	25.7
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	25.7
5	QPSK	1	0	24.80	24.87	24.67	
Channel				26705	26865	27025	25.7
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.80	24.87	24.73	25.7
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	25.7
1.4	QPSK	1	0	24.84	24.84	24.73	



<LTE Band 26\_Ant 1\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	25.7
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.97	25.03	24.87	25.7
15	QPSK	1	37	24.89	24.92	24.87	
15	QPSK	1	74	24.88	24.93	24.82	
15	QPSK	36	0	24.14	24.15	24.12	24.7
15	QPSK	36	20	24.10	24.12	24.05	
15	QPSK	36	39	24.06	24.08	24.01	
15	QPSK	75	0	24.08	24.11	24.09	24.7
15	16QAM	1	0	23.82	24.02	23.75	
15	16QAM	1	37	23.87	24.03	23.79	
15	16QAM	1	74	23.89	23.94	23.74	23.7
15	16QAM	36	0	22.85	23.03	22.70	
15	16QAM	36	20	22.82	22.98	22.75	
15	16QAM	36	39	22.85	22.98	22.72	23.7
15	16QAM	75	0	22.84	23.03	22.72	
15	64QAM	1	0	22.85	23.00	22.79	
15	64QAM	1	37	22.81	22.98	22.77	23.7
15	64QAM	1	74	22.82	22.98	22.71	
15	64QAM	36	0	21.87	22.00	21.77	
15	64QAM	36	20	21.85	21.94	21.72	22.7
15	64QAM	36	39	21.88	21.97	21.75	
15	64QAM	75	0	21.84	21.96	21.75	
15	256QAM	1	0	19.90	20.00	19.74	20.7
15	256QAM	1	37	19.81	19.98	19.77	
15	256QAM	1	74	19.85	20.00	19.70	
15	256QAM	36	0	19.86	19.93	19.79	20.7
15	256QAM	36	20	19.83	19.96	19.77	
15	256QAM	36	39	19.82	19.93	19.74	
15	256QAM	75	0	19.85	19.95	19.74	20.7
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.81	24.84	24.72	25.7
Channel				26715	26865	27015	25.7
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.80	24.87	24.67	25.7
Channel				26705	26865	27025	25.7
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.80	24.87	24.73	25.7
Channel				26697	26865	27033	25.7
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.84	24.84	24.73	25.7



<LTE Band 66_Ant 2_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	22
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.04	21.13	21.07	
20	QPSK	1	49	21.01	21.04	21.07	22
20	QPSK	1	99	20.97	21.03	21.02	
20	QPSK	50	0	20.89	21.06	20.92	
20	QPSK	50	24	20.92	21.04	20.90	22
20	QPSK	50	50	20.76	20.90	20.76	
20	QPSK	100	0	20.94	21.04	20.91	
20	16QAM	1	0	21.02	21.07	21.05	22
20	16QAM	1	49	20.92	21.02	20.97	
20	16QAM	1	99	20.87	20.94	20.95	
20	16QAM	50	0	21.00	21.05	20.99	22
20	16QAM	50	24	21.01	21.05	20.98	
20	16QAM	50	50	20.98	21.11	20.99	
20	16QAM	100	0	21.03	21.06	20.97	22
20	64QAM	1	0	21.06	21.10	21.05	
20	64QAM	1	49	21.04	21.11	21.06	
20	64QAM	1	99	21.01	21.04	21.06	22
20	64QAM	50	0	21.02	21.02	20.97	
20	64QAM	50	24	20.98	21.05	20.99	
20	64QAM	50	50	20.95	21.03	21.05	20
20	64QAM	100	0	20.94	21.05	21.04	
20	256QAM	1	0	19.20	19.30	19.14	
20	256QAM	1	49	19.01	19.04	18.99	20
20	256QAM	1	99	19.01	19.10	18.97	
20	256QAM	50	0	18.94	19.10	19.04	
20	256QAM	50	24	19.02	19.11	19.03	20
20	256QAM	50	50	18.99	19.13	19.00	
20	256QAM	100	0	18.95	19.05	19.03	
Channel				132047	132322	132597	22
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.00	21.09	21.04	
Channel				132022	132322	132622	22
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.01	21.07	21.02	
Channel				131997	132322	132647	22
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.99	21.08	21.04	
Channel				131987	132322	132657	22
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.01	21.05	21.01	
Channel				131979	132322	132665	22
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.00	21.08	21.02	





LTE Band 66_Ant 2_DSI 4_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.47	22.54	22.40	
20	QPSK	1	49	22.46	22.25	22.39	23
20	QPSK	1	99	22.43	22.21	22.38	
20	QPSK	50	0	21.45	21.54	21.33	
20	QPSK	50	24	21.24	21.40	21.22	23
20	QPSK	50	50	21.38	21.49	21.29	
20	QPSK	100	0	21.44	21.51	21.31	
20	16QAM	1	0	21.45	21.58	21.35	23
20	16QAM	1	49	21.43	21.45	21.34	
20	16QAM	1	99	21.43	21.44	21.30	
20	16QAM	50	0	20.41	20.45	20.32	22
20	16QAM	50	24	20.46	20.51	20.35	
20	16QAM	50	50	20.38	20.44	20.31	
20	16QAM	100	0	20.41	20.47	20.40	22
20	64QAM	1	0	20.29	20.44	20.22	
20	64QAM	1	49	20.45	20.50	20.40	
20	64QAM	1	99	20.43	20.50	20.32	21
20	64QAM	50	0	19.44	19.50	19.37	
20	64QAM	50	24	19.44	19.54	19.40	
20	64QAM	50	50	19.37	19.50	19.38	19
20	64QAM	100	0	19.44	19.48	19.31	
20	256QAM	1	0	17.30	17.46	17.31	
20	256QAM	1	49	17.45	17.46	17.33	19
20	256QAM	1	99	17.37	17.49	17.30	
20	256QAM	50	0	17.38	17.52	17.40	
20	256QAM	50	24	17.41	17.52	17.33	19
20	256QAM	50	50	17.46	17.44	17.33	
20	256QAM	100	0	17.43	17.52	17.35	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.38	22.46	22.35	
Channel				132022	132322	132622	24
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.43	22.44	22.35	
Channel				131997	132322	132647	24
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.41	22.46	22.32	
Channel				131987	132322	132657	24
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.41	22.49	22.35	
Channel				131979	132322	132665	24
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.40	22.46	22.36	



<b>&lt;LTE Band 66_Ant 3_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.37	23.48	23.31	
20	QPSK	1	49	23.37	23.37	23.22	24
20	QPSK	1	99	23.27	23.34	23.28	
20	QPSK	50	0	22.20	22.31	22.14	
20	QPSK	50	24	22.14	22.30	22.05	24
20	QPSK	50	50	22.16	22.30	22.12	
20	QPSK	100	0	22.10	22.22	22.02	
20	16QAM	1	0	22.43	22.58	22.41	24
20	16QAM	1	49	22.35	22.45	22.24	
20	16QAM	1	99	22.29	22.46	22.25	
20	16QAM	50	0	21.27	21.38	21.26	23
20	16QAM	50	24	21.32	21.44	21.29	
20	16QAM	50	50	21.34	21.42	21.31	
20	16QAM	100	0	21.31	21.44	21.28	23
20	64QAM	1	0	21.34	21.54	21.35	
20	64QAM	1	49	21.34	21.47	21.25	
20	64QAM	1	99	21.34	21.43	21.23	22
20	64QAM	50	0	20.34	20.41	20.22	
20	64QAM	50	24	20.31	20.41	20.30	
20	64QAM	50	50	20.33	20.38	20.27	20
20	64QAM	100	0	20.31	20.44	20.27	
20	256QAM	1	0	18.30	18.48	18.25	
20	256QAM	1	49	18.28	18.45	18.22	20
20	256QAM	1	99	18.36	18.38	18.30	
20	256QAM	50	0	18.32	18.44	18.29	
20	256QAM	50	24	18.33	18.40	18.28	20
20	256QAM	50	50	18.33	18.43	18.27	
20	256QAM	100	0	18.29	18.41	18.27	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.32	23.40	23.29	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.32	23.46	23.29	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.34	23.40	23.26	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.30	23.46	23.28	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.33	23.41	23.29	



LTE Band 66_Ant 3_DSI 4_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.78	23.88	23.79	
20	QPSK	1	49	23.69	23.70	23.74	24
20	QPSK	1	99	23.73	23.63	23.69	
20	QPSK	50	0	22.60	22.73	22.63	
20	QPSK	50	24	22.49	22.69	22.55	24
20	QPSK	50	50	22.54	22.64	22.53	
20	QPSK	100	0	22.48	22.63	22.52	
20	16QAM	1	0	22.66	22.76	22.57	24
20	16QAM	1	49	22.76	22.79	22.71	
20	16QAM	1	99	22.74	22.83	22.78	
20	16QAM	50	0	21.77	21.80	21.74	23
20	16QAM	50	24	21.71	21.86	21.76	
20	16QAM	50	50	21.76	21.79	21.71	
20	16QAM	100	0	21.72	21.81	21.76	23
20	64QAM	1	0	21.61	21.78	21.62	
20	64QAM	1	49	21.69	21.85	21.78	
20	64QAM	1	99	21.75	21.80	21.72	22
20	64QAM	50	0	20.73	20.85	20.73	
20	64QAM	50	24	20.70	20.82	20.75	
20	64QAM	50	50	20.68	20.78	20.76	20
20	64QAM	100	0	20.74	20.85	20.77	
20	256QAM	1	0	18.71	18.89	18.80	
20	256QAM	1	49	18.73	18.84	18.75	20
20	256QAM	1	99	18.70	18.82	18.75	
20	256QAM	50	0	18.71	18.80	18.70	
20	256QAM	50	24	18.75	18.79	18.69	20
20	256QAM	50	50	18.74	18.87	18.78	
20	256QAM	100	0	18.78	18.79	18.69	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.71	23.80	23.71	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.73	23.82	23.72	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.71	23.81	23.72	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.70	23.79	23.70	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.69	23.78	23.69	



<LTE Band 66_Ant 4_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	23.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.77	21.79	21.62	
20	QPSK	1	49	21.73	21.67	21.59	22.5
20	QPSK	1	99	21.76	21.71	21.57	
20	QPSK	50	0	20.75	20.87	20.69	
20	QPSK	50	24	20.56	20.63	20.51	22.5
20	QPSK	50	50	20.78	20.83	20.59	
20	QPSK	100	0	20.57	20.69	20.58	
20	16QAM	1	0	20.87	20.96	20.79	22.5
20	16QAM	1	49	20.72	20.77	20.56	
20	16QAM	1	99	20.72	20.79	20.60	
20	16QAM	50	0	19.75	19.72	19.62	21.5
20	16QAM	50	24	19.68	19.79	19.53	
20	16QAM	50	50	19.73	19.75	19.57	
20	16QAM	100	0	19.75	19.73	19.52	21.5
20	64QAM	1	0	19.71	19.77	19.57	
20	64QAM	1	49	19.72	19.69	19.55	
20	64QAM	1	99	19.68	19.73	19.62	20.5
20	64QAM	50	0	18.73	18.73	18.52	
20	64QAM	50	24	18.67	18.71	18.57	
20	64QAM	50	50	18.72	18.71	18.56	18.5
20	64QAM	100	0	18.68	18.73	18.62	
20	256QAM	1	0	16.75	16.81	16.54	
20	256QAM	1	49	16.74	16.73	16.53	18.5
20	256QAM	1	99	16.73	16.75	16.60	
20	256QAM	50	0	16.71	16.73	16.57	
20	256QAM	50	24	16.74	16.72	16.59	18.5
20	256QAM	50	50	16.70	16.70	16.57	
20	256QAM	100	0	16.68	16.78	16.62	
Channel				132047	132322	132597	23.5
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.74	21.76	21.57	
Channel				132022	132322	132622	23.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.74	21.73	21.53	
Channel				131997	132322	132647	23.5
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.70	21.75	21.56	
Channel				131987	132322	132657	23.5
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.73	21.71	21.56	
Channel				131979	132322	132665	23.5
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.71	21.72	21.56	



LTE Band 66_Ant 4_DSI 4_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	23.5
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.71	22.76	22.65	
20	QPSK	1	49	22.65	22.59	22.61	22.5
20	QPSK	1	99	22.70	22.61	22.65	
20	QPSK	50	0	21.72	21.78	21.67	
20	QPSK	50	24	21.56	21.65	21.45	22.5
20	QPSK	50	50	21.50	21.56	21.36	
20	QPSK	100	0	21.65	21.75	21.54	
20	16QAM	1	0	21.60	21.65	21.47	22.5
20	16QAM	1	49	21.64	21.69	21.64	
20	16QAM	1	99	21.71	21.71	21.63	
20	16QAM	50	0	20.68	20.72	20.59	21.5
20	16QAM	50	24	20.67	20.74	20.61	
20	16QAM	50	50	20.64	20.69	20.60	
20	16QAM	100	0	20.69	20.66	20.57	21.5
20	64QAM	1	0	20.46	20.59	20.40	
20	64QAM	1	49	20.67	20.69	20.56	
20	64QAM	1	99	20.64	20.68	20.62	20.5
20	64QAM	50	0	19.70	19.76	19.63	
20	64QAM	50	24	19.70	19.70	19.57	
20	64QAM	50	50	19.64	19.72	19.64	18.5
20	64QAM	100	0	19.71	19.75	19.64	
20	256QAM	1	0	17.44	17.51	17.32	
20	256QAM	1	49	17.68	17.68	17.65	18.5
20	256QAM	1	99	17.68	17.75	17.55	
20	256QAM	50	0	17.64	17.69	17.59	
20	256QAM	50	24	17.67	17.74	17.58	18.5
20	256QAM	50	50	17.68	17.69	17.58	
20	256QAM	100	0	17.67	17.67	17.61	
Channel				132047	132322	132597	23.5
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.63	22.68	22.58	
Channel				132022	132322	132622	23.5
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.67	22.73	22.59	
Channel				131997	132322	132647	23.5
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.68	22.73	22.64	
Channel				131987	132322	132657	23.5
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.66	22.71	22.58	
Channel				131979	132322	132665	23.5
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.67	22.72	22.63	



<LTE Band 66_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.65	23.69	23.47	
20	QPSK	1	49	23.64	23.57	23.40	24
20	QPSK	1	99	23.55	23.60	23.41	
20	QPSK	50	0	22.53	22.59	22.34	
20	QPSK	50	24	22.46	22.55	22.31	24
20	QPSK	50	50	22.43	22.52	22.21	
20	QPSK	100	0	22.39	22.53	22.28	
20	16QAM	1	0	22.73	22.79	22.57	24
20	16QAM	1	49	22.65	22.68	22.39	
20	16QAM	1	99	22.65	22.65	22.38	
20	16QAM	50	0	21.59	21.64	21.37	23
20	16QAM	50	24	21.56	21.67	21.39	
20	16QAM	50	50	21.58	21.59	21.41	
20	16QAM	100	0	21.58	21.65	21.45	23
20	64QAM	1	0	21.67	21.80	21.58	
20	64QAM	1	49	21.65	21.59	21.45	
20	64QAM	1	99	21.64	21.62	21.41	22
20	64QAM	50	0	20.65	20.63	20.46	
20	64QAM	50	24	20.61	20.66	20.44	
20	64QAM	50	50	20.63	20.62	20.44	20
20	64QAM	100	0	20.59	20.62	20.38	
20	256QAM	1	0	18.58	18.71	18.47	
20	256QAM	1	49	18.55	18.59	18.38	20
20	256QAM	1	99	18.56	18.62	18.44	
20	256QAM	50	0	18.63	18.59	18.40	
20	256QAM	50	24	18.56	18.59	18.38	20
20	256QAM	50	50	18.59	18.69	18.42	
20	256QAM	100	0	18.61	18.66	18.37	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.64	23.65	23.42	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.63	23.65	23.43	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.60	23.65	23.45	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.60	23.64	23.46	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.63	23.67	23.42	



LTE Band 66_Ant 5_DSI 4_Other PA							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	25
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	24.04	24.05	23.85	
20	QPSK	1	49	23.99	23.75	23.80	24
20	QPSK	1	99	23.96	23.72	23.82	
20	QPSK	50	0	23.10	23.12	22.82	
20	QPSK	50	24	22.69	22.74	22.44	24
20	QPSK	50	50	22.83	22.87	22.64	
20	QPSK	100	0	22.96	23.02	22.77	
20	16QAM	1	0	22.98	23.06	22.84	24
20	16QAM	1	49	22.98	23.03	22.85	
20	16QAM	1	99	23.00	23.02	22.84	
20	16QAM	50	0	22.00	21.97	21.80	23
20	16QAM	50	24	22.04	21.95	21.85	
20	16QAM	50	50	21.99	21.96	21.75	
20	16QAM	100	0	22.01	22.02	21.83	23
20	64QAM	1	0	21.65	21.75	21.52	
20	64QAM	1	49	21.97	22.00	21.83	
20	64QAM	1	99	21.94	22.03	21.82	22
20	64QAM	50	0	20.97	20.95	20.85	
20	64QAM	50	24	21.01	20.95	20.83	
20	64QAM	50	50	21.00	21.05	20.82	20
20	64QAM	100	0	20.98	20.97	20.80	
20	256QAM	1	0	18.67	18.69	18.49	
20	256QAM	1	49	18.98	19.04	18.84	20
20	256QAM	1	99	18.98	18.99	18.82	
20	256QAM	50	0	19.00	19.05	18.77	
20	256QAM	50	24	18.94	18.99	18.83	20
20	256QAM	50	50	18.94	19.01	18.81	
20	256QAM	100	0	19.02	19.01	18.77	
Channel				132047	132322	132597	25
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.97	24.00	23.81	
Channel				132022	132322	132622	25
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	24.01	23.99	23.81	
Channel				131997	132322	132647	25
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	24.01	24.02	23.78	
Channel				131987	132322	132657	25
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	24.00	24.02	23.81	
Channel				131979	132322	132665	25
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	24.01	24.00	23.78	



<b>&lt;LTE Band 38_Ant 2_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	23.5
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.21	23.28	23.16	
20	QPSK	1	49	23.12	23.19	23.06	23.5
20	QPSK	1	99	23.10	23.25	23.07	
20	QPSK	50	0	23.19	23.18	23.09	
20	QPSK	50	24	23.15	23.27	23.15	23.5
20	QPSK	50	50	23.17	23.19	23.13	
20	QPSK	100	0	23.17	23.19	23.10	
20	16QAM	1	0	23.19	23.23	23.12	23.5
20	16QAM	1	49	23.17	23.17	23.06	
20	16QAM	1	99	23.19	23.18	23.10	
20	16QAM	50	0	23.18	23.20	23.07	23.5
20	16QAM	50	24	23.13	23.25	23.14	
20	16QAM	50	50	23.14	23.24	23.11	
20	16QAM	100	0	23.18	23.18	23.09	23.5
20	64QAM	1	0	23.12	23.26	23.14	
20	64QAM	1	49	23.12	23.26	23.13	
20	64QAM	1	99	23.13	23.18	23.15	22.7
20	64QAM	50	0	22.36	22.47	22.27	
20	64QAM	50	24	22.30	22.47	22.28	
20	64QAM	50	50	22.31	22.40	22.32	20.7
20	64QAM	100	0	22.37	22.40	22.33	
20	256QAM	1	0	20.30	20.40	20.31	
20	256QAM	1	49	20.37	20.43	20.25	20.7
20	256QAM	1	99	20.35	20.46	20.30	
20	256QAM	50	0	20.34	20.44	20.34	
20	256QAM	50	24	20.39	20.45	20.28	20.7
20	256QAM	50	50	20.30	20.41	20.33	
20	256QAM	100	0	20.30	20.37	20.26	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.14	23.25	23.08	23.5
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.14	23.24	23.08	23.5
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.18	23.22	23.10	23.5





<LTE Band 38_Ant 3_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	25.7
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.34	24.35	24.15	
20	QPSK	1	49	24.32	24.23	24.12	24.7
20	QPSK	1	99	24.27	24.22	24.13	
20	QPSK	50	0	23.13	23.20	22.95	
20	QPSK	50	24	23.04	23.11	22.86	24.7
20	QPSK	50	50	23.08	23.14	22.84	
20	QPSK	100	0	23.08	23.16	22.92	
20	16QAM	1	0	23.24	23.31	23.07	24.7
20	16QAM	1	49	23.29	23.32	23.10	
20	16QAM	1	99	23.34	23.29	23.06	
20	16QAM	50	0	22.31	22.30	22.15	23.7
20	16QAM	50	24	22.24	22.33	22.15	
20	16QAM	50	50	22.34	22.27	22.14	
20	16QAM	100	0	22.29	22.33	22.12	23.7
20	64QAM	1	0	21.90	21.97	21.72	
20	64QAM	1	49	22.32	22.28	22.05	
20	64QAM	1	99	22.27	22.30	22.07	22.7
20	64QAM	50	0	21.26	21.30	21.10	
20	64QAM	50	24	21.31	21.32	21.05	
20	64QAM	50	50	21.27	21.28	21.09	20.7
20	64QAM	100	0	21.28	21.34	21.12	
20	256QAM	1	0	18.96	19.00	18.79	
20	256QAM	1	49	19.33	19.35	19.14	20.7
20	256QAM	1	99	19.28	19.26	19.12	
20	256QAM	50	0	19.28	19.32	19.13	
20	256QAM	50	24	19.30	19.27	19.09	20.7
20	256QAM	50	50	19.32	19.30	19.06	
20	256QAM	100	0	19.25	19.27	19.07	
Channel				37825	38000	38175	25.7
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.29	24.20	24.11	25.7
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	25.7
10	QPSK	1	0	24.26	24.20	24.09	
Channel				37775	38000	38225	25.7
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.29	24.21	24.03	25.7



<b>&lt;LTE Band 38_Ant 4_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	24
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.28	22.35	22.25	
20	QPSK	1	49	22.23	22.23	22.22	23
20	QPSK	1	99	22.23	22.24	22.20	
20	QPSK	50	0	21.23	21.34	21.16	
20	QPSK	50	24	21.10	21.21	21.03	23
20	QPSK	50	50	21.01	21.10	21.06	
20	QPSK	100	0	21.17	21.28	21.13	
20	16QAM	1	0	21.35	21.44	21.25	23
20	16QAM	1	49	21.22	21.34	21.25	
20	16QAM	1	99	21.19	21.34	21.19	
20	16QAM	50	0	20.26	20.27	20.15	22
20	16QAM	50	24	20.18	20.33	20.16	
20	16QAM	50	50	20.21	20.30	20.18	
20	16QAM	100	0	20.20	20.35	20.18	22
20	64QAM	1	0	20.09	20.17	20.04	
20	64QAM	1	49	20.28	20.32	20.22	
20	64QAM	1	99	20.22	20.27	20.24	21
20	64QAM	50	0	19.24	19.35	19.24	
20	64QAM	50	24	19.18	19.27	19.24	
20	64QAM	50	50	19.23	19.31	19.19	19
20	64QAM	100	0	19.18	19.25	19.25	
20	256QAM	1	0	17.03	17.11	17.00	
20	256QAM	1	49	17.21	17.35	17.22	19
20	256QAM	1	99	17.26	17.34	17.24	
20	256QAM	50	0	17.24	17.27	17.19	
20	256QAM	50	24	17.21	17.26	17.22	19
20	256QAM	50	50	17.21	17.33	17.24	
20	256QAM	100	0	17.28	17.33	17.16	
Channel				37825	38000	38175	24
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.21	22.29	22.21	24
Channel				37800	38000	38200	24
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.24	22.33	22.22	24
Channel				37775	38000	38225	24
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.22	22.30	22.21	24



<LTE Band 38_Ant 5_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	25.7
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.72	24.74	24.45	
20	QPSK	1	49	24.63	24.66	24.39	24.7
20	QPSK	1	99	24.67	24.64	24.35	
20	QPSK	50	0	23.76	23.78	23.44	
20	QPSK	50	24	23.63	23.72	23.41	24.7
20	QPSK	50	50	23.71	23.77	23.40	
20	QPSK	100	0	23.64	23.68	23.32	
20	16QAM	1	0	23.86	23.94	23.61	24.7
20	16QAM	1	49	23.67	23.66	23.42	
20	16QAM	1	99	23.65	23.66	23.36	
20	16QAM	50	0	22.62	22.67	22.35	23.7
20	16QAM	50	24	22.71	22.69	22.43	
20	16QAM	50	50	22.62	22.73	22.43	
20	16QAM	100	0	22.70	22.74	22.35	23.7
20	64QAM	1	0	22.61	22.71	22.32	
20	64QAM	1	49	22.64	22.69	22.45	
20	64QAM	1	99	22.65	22.64	22.35	22.7
20	64QAM	50	0	21.71	21.69	21.45	
20	64QAM	50	24	21.66	21.69	21.45	
20	64QAM	50	50	21.64	21.73	21.39	20.7
20	64QAM	100	0	21.72	21.71	21.36	
20	256QAM	1	0	19.59	19.65	19.33	
20	256QAM	1	49	19.72	19.72	19.39	20.7
20	256QAM	1	99	19.67	19.67	19.42	
20	256QAM	50	0	19.62	19.70	19.42	
20	256QAM	50	24	19.66	19.72	19.44	20.7
20	256QAM	50	50	19.65	19.72	19.41	
20	256QAM	100	0	19.63	19.64	19.39	
Channel				37825	38000	38175	25.7
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	24.63	24.65	24.39	25.7
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	25.7
10	QPSK	1	0	24.61	24.63	24.35	
Channel				37775	38000	38225	25.7
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	24.61	24.65	24.37	25.7



<LTE Band 41_Ant 2_DSI 4_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.34	22.38	22.48	22.42	22.36	22.5
20	QPSK	1	49	22.31	22.29	22.44	22.35	22.33	
20	QPSK	1	99	22.29	22.34	22.40	22.34	22.28	
20	QPSK	50	0	22.23	22.31	22.40	22.32	22.33	22.5
20	QPSK	50	24	22.25	22.35	22.41	22.41	22.27	
20	QPSK	50	50	22.31	22.27	22.44	22.34	22.31	
20	QPSK	100	0	22.24	22.35	22.46	22.40	22.27	
20	16QAM	1	0	22.31	22.31	22.39	22.32	22.27	22.5
20	16QAM	1	49	22.32	22.30	22.40	22.38	22.35	
20	16QAM	1	99	22.32	22.30	22.45	22.39	22.32	
20	16QAM	50	0	22.27	22.36	22.38	22.32	22.25	22.5
20	16QAM	50	24	22.31	22.35	22.37	22.40	22.27	
20	16QAM	50	50	22.26	22.31	22.43	22.35	22.31	
20	16QAM	100	0	22.31	22.35	22.41	22.31	22.27	
20	64QAM	1	0	22.24	22.32	22.39	22.40	22.29	22.5
20	64QAM	1	49	22.27	22.35	22.40	22.34	22.27	
20	64QAM	1	99	22.28	22.37	22.42	22.35	22.32	
20	64QAM	50	0	22.33	22.27	22.44	22.34	22.32	22.5
20	64QAM	50	24	22.29	22.31	22.38	22.41	22.27	
20	64QAM	50	50	22.29	22.30	22.44	22.34	22.28	
20	64QAM	100	0	22.29	22.33	22.43	22.32	22.34	
20	256QAM	1	0	20.48	20.52	20.58	20.55	20.55	20.7
20	256QAM	1	49	20.47	20.48	20.62	20.52	20.49	
20	256QAM	1	99	20.52	20.52	20.67	20.54	20.49	
20	256QAM	50	0	20.44	20.53	20.60	20.59	20.48	20.7
20	256QAM	50	24	20.52	20.53	20.62	20.61	20.51	
20	256QAM	50	50	20.50	20.53	20.58	20.59	20.46	
20	256QAM	100	0	20.47	20.56	20.58	20.57	20.51	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.23	22.27	22.39	22.33	22.23	22.50
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.25	22.32	22.40	22.31	22.26	22.50
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.24	22.33	22.37	22.37	22.30	22.50



<LTE Band 41_Ant 3_DSI 4_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.48	24.28	24.52	24.22	24.14	25.7
20	QPSK	1	49	24.45	24.28	24.40	24.13	24.08	
20	QPSK	1	99	24.46	24.20	24.40	24.19	24.07	
20	QPSK	50	0	23.20	22.99	23.29	22.98	22.82	24.7
20	QPSK	50	24	23.21	23.03	23.27	22.96	22.85	
20	QPSK	50	50	23.14	23.00	23.25	22.95	22.81	
20	QPSK	100	0	23.02	22.91	23.15	22.77	22.76	24.7
20	16QAM	1	0	23.31	23.11	23.41	23.09	22.99	
20	16QAM	1	49	23.48	23.21	23.51	23.19	23.13	
20	16QAM	1	99	23.48	23.25	23.48	23.14	23.07	23.7
20	16QAM	50	0	22.38	22.26	22.44	22.20	22.14	
20	16QAM	50	24	22.46	22.18	22.42	22.16	22.10	
20	16QAM	50	50	22.48	22.22	22.42	22.19	22.07	23.7
20	16QAM	100	0	22.48	22.26	22.46	22.20	22.09	
20	64QAM	1	0	21.99	21.80	22.07	21.72	21.76	
20	64QAM	1	49	22.44	22.26	22.43	22.22	22.11	23.7
20	64QAM	1	99	22.45	22.28	22.45	22.16	22.04	
20	64QAM	50	0	21.45	21.25	21.46	21.18	21.04	
20	64QAM	50	24	21.44	21.28	21.47	21.16	21.09	22.7
20	64QAM	50	50	21.40	21.24	21.52	21.13	21.14	
20	64QAM	100	0	21.45	21.21	21.52	21.16	21.10	
20	256QAM	1	0	19.05	18.85	19.14	18.83	18.74	20.7
20	256QAM	1	49	19.47	19.23	19.49	19.19	19.13	
20	256QAM	1	99	19.46	19.27	19.43	19.20	19.11	
20	256QAM	50	0	19.46	19.23	19.45	19.17	19.12	20.7
20	256QAM	50	24	19.46	19.24	19.43	19.21	19.08	
20	256QAM	50	50	19.47	19.24	19.49	19.19	19.07	
20	256QAM	100	0	19.38	19.18	19.51	19.16	19.12	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.46	24.24	24.44	24.19	24.11	25.70
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.43	24.25	24.49	24.20	24.12	25.70
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.41	24.21	24.47	24.18	24.09	25.70



<b>&lt;LTE Band 41_Ant 4_DSI 4_Main PA&gt;</b>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.04	22.35	22.50	22.41	22.01	24
20	QPSK	1	49	22.02	22.32	22.36	22.35	22.00	
20	QPSK	1	99	22.01	22.26	22.36	22.40	22.01	
20	QPSK	50	0	21.03	21.03	21.21	21.02	21.06	23
20	QPSK	50	24	21.09	21.08	21.11	21.05	21.00	
20	QPSK	50	50	21.15	21.13	21.18	21.00	21.07	
20	QPSK	100	0	21.09	21.02	21.22	21.03	21.11	
20	16QAM	1	0	21.21	21.20	21.39	21.29	21.24	23
20	16QAM	1	49	21.35	21.28	21.43	21.37	21.37	
20	16QAM	1	99	21.35	21.29	21.42	21.40	21.36	
20	16QAM	50	0	20.25	20.28	20.44	20.31	20.39	22
20	16QAM	50	24	20.29	20.29	20.46	20.34	20.41	
20	16QAM	50	50	20.29	20.26	20.44	20.36	20.41	
20	16QAM	100	0	20.28	20.26	20.43	20.33	20.33	
20	64QAM	1	0	20.09	20.05	20.13	20.03	20.04	22
20	64QAM	1	49	20.30	20.29	20.43	20.32	20.34	
20	64QAM	1	99	20.26	20.33	20.46	20.31	20.31	
20	64QAM	50	0	19.30	19.32	19.47	19.35	19.38	21
20	64QAM	50	24	19.31	19.33	19.44	19.33	19.35	
20	64QAM	50	50	19.25	19.31	19.40	19.40	19.41	
20	64QAM	100	0	19.33	19.29	19.41	19.33	19.34	
20	256QAM	1	0	17.11	17.03	17.06	17.04	17.07	19
20	256QAM	1	49	17.27	17.27	17.47	17.39	17.33	
20	256QAM	1	99	17.26	17.26	17.49	17.33	17.37	
20	256QAM	50	0	17.35	17.28	17.40	17.35	17.36	19
20	256QAM	50	24	17.28	17.26	17.48	17.31	17.39	
20	256QAM	50	50	17.29	17.27	17.50	17.38	17.31	
20	256QAM	100	0	17.26	17.27	17.47	17.37	17.39	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.01	22.27	22.43	22.38	22.09	24.00
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.06	22.31	22.43	22.38	22.03	24.00
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.02	22.32	22.43	22.38	22.04	24.00



<LTE Band 41_Ant 5_DSI 4_Main PA>									
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)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	24.97	24.79	24.99	24.57	24.69	25.7
20	QPSK	1	49	24.87	24.79	24.91	24.52	24.67	
20	QPSK	1	99	24.97	24.75	24.90	24.53	24.67	
20	QPSK	50	0	24.29	24.20	24.40	23.91	24.06	24.7
20	QPSK	50	24	24.23	24.08	24.34	23.88	23.94	
20	QPSK	50	50	24.29	24.03	24.31	23.83	23.99	
20	QPSK	100	0	24.30	24.14	24.41	23.89	24.08	
20	16QAM	1	0	24.38	24.20	24.48	23.96	24.10	24.7
20	16QAM	1	49	23.96	23.79	23.99	23.57	23.62	
20	16QAM	1	99	23.89	23.79	23.91	23.55	23.68	
20	16QAM	50	0	22.93	22.71	22.94	22.50	22.64	23.7
20	16QAM	50	24	22.95	22.72	22.96	22.53	22.59	
20	16QAM	50	50	22.93	22.79	22.97	22.54	22.63	
20	16QAM	100	0	22.87	22.69	22.91	22.51	22.69	
20	64QAM	1	0	22.92	22.74	22.98	22.55	22.68	23.7
20	64QAM	1	49	22.89	22.79	22.94	22.54	22.59	
20	64QAM	1	99	22.97	22.70	22.97	22.54	22.64	
20	64QAM	50	0	21.96	21.73	21.97	21.57	21.63	22.7
20	64QAM	50	24	21.97	21.78	21.93	21.56	21.64	
20	64QAM	50	50	21.89	21.79	21.98	21.56	21.69	
20	64QAM	100	0	21.92	21.72	21.99	21.49	21.69	
20	256QAM	1	0	19.88	19.63	19.92	19.43	19.53	20.7
20	256QAM	1	49	19.87	19.79	19.96	19.47	19.69	
20	256QAM	1	99	19.95	19.75	19.97	19.55	19.66	
20	256QAM	50	0	19.90	19.72	19.91	19.54	19.66	20.7
20	256QAM	50	24	19.97	19.74	19.94	19.56	19.68	
20	256QAM	50	50	19.97	19.71	19.92	19.51	19.66	
20	256QAM	100	0	19.90	19.73	19.90	19.52	19.62	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	24.92	24.72	24.96	24.54	24.63	25.70
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	24.93	24.77	24.96	24.49	24.61	25.70
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	24.91	24.73	24.96	24.55	24.63	25.70



<b>&lt;LTE Band 42_Ant 6_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	25.7
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	25.01	25.12	25.11	
20	QPSK	1	49	25.00	24.99	25.08	24.7
20	QPSK	1	99	24.93	24.91	25.06	
20	QPSK	50	0	23.82	24.01	23.95	
20	QPSK	50	24	23.75	23.95	23.88	24.7
20	QPSK	50	50	23.78	23.98	23.92	
20	QPSK	100	0	23.76	23.92	23.91	
20	16QAM	1	0	23.94	24.06	24.05	24.7
20	16QAM	1	49	23.98	24.09	24.10	
20	16QAM	1	99	23.92	24.09	24.03	
20	16QAM	50	0	22.99	23.06	23.07	23.7
20	16QAM	50	24	23.01	23.10	23.02	
20	16QAM	50	50	22.99	23.11	23.07	
20	16QAM	100	0	22.95	23.04	23.09	23.7
20	64QAM	1	0	22.59	22.71	22.63	
20	64QAM	1	49	22.96	23.09	23.07	
20	64QAM	1	99	22.94	23.10	23.04	22.7
20	64QAM	50	0	21.95	22.02	22.04	
20	64QAM	50	24	22.00	22.07	22.07	
20	64QAM	50	50	21.98	22.02	22.01	22.7
20	64QAM	100	0	21.99	22.05	22.07	
20	256QAM	1	0	19.67	19.88	19.82	
20	256QAM	1	49	19.92	20.02	20.02	20.7
20	256QAM	1	99	19.92	20.11	20.10	
20	256QAM	50	0	19.92	20.05	20.07	
20	256QAM	50	24	19.93	20.04	20.04	20.7
20	256QAM	50	50	19.99	20.03	20.05	
20	256QAM	100	0	19.98	20.04	20.01	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	24.96	25.07	25.08	25.7
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	24.94	25.09	25.05	25.7
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	24.96	25.07	25.07	25.7





<LTE Band 42_Ant 7_DSI 4_Main PA>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	19.8
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	19.13	19.22	19.16	
20	QPSK	1	49	19.06	19.11	19.08	19.8
20	QPSK	1	99	19.02	19.11	19.13	
20	QPSK	50	0	19.11	19.21	19.11	
20	QPSK	50	24	19.05	19.16	19.14	19.8
20	QPSK	50	50	19.08	19.17	19.14	
20	QPSK	100	0	19.05	19.19	19.12	
20	16QAM	1	0	19.09	19.20	19.07	19.8
20	16QAM	1	49	19.07	19.16	19.08	
20	16QAM	1	99	19.09	19.17	19.12	
20	16QAM	50	0	19.06	19.18	19.06	19.8
20	16QAM	50	24	19.02	19.19	19.15	
20	16QAM	50	50	19.09	19.19	19.08	
20	16QAM	100	0	19.09	19.13	19.12	19.8
20	64QAM	1	0	19.11	19.15	19.10	
20	64QAM	1	49	19.04	19.16	19.14	
20	64QAM	1	99	19.12	19.21	19.05	19.8
20	64QAM	50	0	19.09	19.12	19.15	
20	64QAM	50	24	19.03	19.18	19.11	
20	64QAM	50	50	19.06	19.11	19.13	19.8
20	64QAM	100	0	19.06	19.11	19.10	
20	256QAM	1	0	19.05	19.15	19.07	
20	256QAM	1	49	19.11	19.19	19.15	19.8
20	256QAM	1	99	19.09	19.18	19.06	
20	256QAM	50	0	19.05	19.11	19.15	
20	256QAM	50	24	19.05	19.19	19.11	19.8
20	256QAM	50	50	19.12	19.14	19.07	
20	256QAM	100	0	19.10	19.14	19.10	
Channel				42165	42590	43015	19.8
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	19.07	19.15	19.06	19.8
Channel				42140	42590	43040	19.8
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	19.03	19.18	19.07	19.8
Channel				42115	42590	43065	19.8
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	19.03	19.16	19.14	19.8



<b>&lt;LTE Band 42_Ant 8_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	24.5
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.31	23.32	23.24	
20	QPSK	1	49	23.26	23.20	23.21	23.5
20	QPSK	1	99	23.26	23.22	23.14	
20	QPSK	50	0	22.28	22.30	22.18	
20	QPSK	50	24	22.17	22.26	22.13	23.5
20	QPSK	50	50	22.03	22.11	22.00	
20	QPSK	100	0	22.07	22.18	22.06	
20	16QAM	1	0	22.20	22.30	22.12	23.5
20	16QAM	1	49	22.23	22.27	22.19	
20	16QAM	1	99	22.25	22.25	22.15	
20	16QAM	50	0	21.31	21.27	21.16	22.5
20	16QAM	50	24	21.28	21.30	21.15	
20	16QAM	50	50	21.25	21.27	21.22	
20	16QAM	100	0	21.29	21.23	21.21	22.5
20	64QAM	1	0	20.87	20.97	20.87	
20	64QAM	1	49	21.31	21.28	21.22	
20	64QAM	1	99	21.22	21.27	21.24	21.5
20	64QAM	50	0	20.28	20.32	20.20	
20	64QAM	50	24	20.21	20.30	20.22	
20	64QAM	50	50	20.22	20.29	20.17	19.5
20	64QAM	100	0	20.28	20.23	20.21	
20	256QAM	1	0	18.10	18.11	17.95	
20	256QAM	1	49	18.31	18.26	18.15	19.5
20	256QAM	1	99	18.31	18.26	18.23	
20	256QAM	50	0	18.25	18.25	18.17	
20	256QAM	50	24	18.26	18.30	18.16	19.5
20	256QAM	50	50	18.24	18.27	18.22	
20	256QAM	100	0	18.28	18.27	18.16	
Channel				42165	42590	43015	24.5
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.25	23.25	23.21	24.5
Channel				42140	42590	43040	24.5
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.29	23.30	23.19	24.5
Channel				42115	42590	43065	24.5
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.26	23.28	23.18	24.5



<b>&lt;LTE Band 42_Ant 9_DSI 4_Main PA&gt;</b>							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	24
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	22.65	22.71	22.65	
20	QPSK	1	49	22.58	22.58	22.56	24
20	QPSK	1	99	22.58	22.60	22.65	
20	QPSK	50	0	21.60	21.75	21.59	
20	QPSK	50	24	21.57	21.63	21.51	23
20	QPSK	50	50	21.62	21.72	21.61	
20	QPSK	100	0	21.57	21.63	21.53	
20	16QAM	1	0	21.73	21.79	21.64	23
20	16QAM	1	49	21.60	21.62	21.61	
20	16QAM	1	99	21.65	21.67	21.65	
20	16QAM	50	0	20.64	20.67	20.61	22
20	16QAM	50	24	20.56	20.71	20.63	
20	16QAM	50	50	20.57	20.70	20.60	
20	16QAM	100	0	20.62	20.66	20.58	22
20	64QAM	1	0	20.23	20.39	20.26	
20	64QAM	1	49	20.57	20.61	20.61	
20	64QAM	1	99	20.55	20.61	20.59	21
20	64QAM	50	0	19.65	19.67	19.57	
20	64QAM	50	24	19.59	19.66	19.62	
20	64QAM	50	50	19.62	19.67	19.61	21
20	64QAM	100	0	19.64	19.67	19.56	
20	256QAM	1	0	17.54	17.69	17.58	
20	256QAM	1	49	17.59	17.62	17.61	19
20	256QAM	1	99	17.62	17.70	17.59	
20	256QAM	50	0	17.59	17.67	17.60	
20	256QAM	50	24	17.56	17.64	17.55	19
20	256QAM	50	50	17.58	17.69	17.57	
20	256QAM	100	0	17.60	17.62	17.61	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	22.61	22.64	22.62	24
Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	22.60	22.65	22.62	24
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	22.60	22.63	22.62	24



<b>&lt;LTE Band 48_Ant 6_DSI 4_Main PA&gt;</b>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	23.38	23.51	23.49	23.47	23.7
20	QPSK	1	49	23.38	23.42	23.40	23.41	
20	QPSK	1	99	23.33	23.37	23.39	23.43	
20	QPSK	50	0	22.19	22.38	22.34	22.28	22.7
20	QPSK	50	24	22.22	22.37	22.28	22.24	
20	QPSK	50	50	22.14	22.34	22.23	22.26	
20	QPSK	100	0	22.11	22.26	22.14	22.19	
20	16QAM	1	0	22.20	22.41	22.30	22.34	22.7
20	16QAM	1	49	22.28	22.45	22.48	22.41	
20	16QAM	1	99	22.28	22.47	22.39	22.41	
20	16QAM	50	0	21.35	21.49	21.39	21.45	21.7
20	16QAM	50	24	21.29	21.43	21.45	21.40	
20	16QAM	50	50	21.29	21.47	21.48	21.37	
20	16QAM	100	0	21.38	21.46	21.45	21.41	
20	64QAM	1	0	20.94	21.07	20.98	20.93	21.7
20	64QAM	1	49	21.38	21.47	21.44	21.47	
20	64QAM	1	99	21.32	21.46	21.48	21.39	
20	64QAM	50	0	20.32	20.51	20.40	20.42	20.7
20	64QAM	50	24	20.31	20.50	20.46	20.44	
20	64QAM	50	50	20.34	20.44	20.43	20.43	
20	64QAM	100	0	20.33	20.45	20.45	20.37	
20	256QAM	1	0	18.00	18.21	18.18	18.08	18.7
20	256QAM	1	49	18.28	18.45	18.42	18.41	
20	256QAM	1	99	18.34	18.41	18.43	18.42	
20	256QAM	50	0	18.28	18.49	18.46	18.37	18.7
20	256QAM	50	24	18.35	18.47	18.49	18.40	
20	256QAM	50	50	18.30	18.45	18.40	18.42	
20	256QAM	100	0	18.35	18.46	18.42	18.37	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	23.34	23.46	23.46	23.42	23.7
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	23.35	23.46	23.47	23.43	23.7
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	23.34	23.46	23.44	23.44	23.7



<LTE Band 48_Ant 7_DSI 4_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	19.93	19.96	19.92	19.91	20.3
20	QPSK	1	49	19.92	19.90	19.88	19.86	
20	QPSK	1	99	19.88	19.86	19.84	19.89	
20	QPSK	50	0	19.86	19.89	19.84	19.84	20.3
20	QPSK	50	24	19.82	19.95	19.91	19.81	
20	QPSK	50	50	19.82	19.87	19.82	19.88	
20	QPSK	100	0	19.82	19.85	19.81	19.80	
20	16QAM	1	0	19.90	19.95	19.86	19.87	20.3
20	16QAM	1	49	19.84	19.92	19.82	19.88	
20	16QAM	1	99	19.82	19.89	19.83	19.81	
20	16QAM	50	0	19.89	19.87	19.90	19.85	20.3
20	16QAM	50	24	19.86	19.95	19.86	19.86	
20	16QAM	50	50	19.82	19.91	19.89	19.85	
20	16QAM	100	0	19.88	19.86	19.83	19.81	
20	64QAM	1	0	19.90	19.93	19.83	19.86	20.3
20	64QAM	1	49	19.89	19.89	19.89	19.83	
20	64QAM	1	99	19.82	19.87	19.87	19.86	
20	64QAM	50	0	19.88	19.87	19.82	19.87	20.3
20	64QAM	50	24	19.89	19.92	19.88	19.82	
20	64QAM	50	50	19.91	19.89	19.86	19.82	
20	64QAM	100	0	19.90	19.91	19.86	19.87	
20	256QAM	1	0	18.06	18.11	18.04	18.07	18.5
20	256QAM	1	49	18.06	18.08	18.11	18.07	
20	256QAM	1	99	18.07	18.11	18.10	18.03	
20	256QAM	50	0	18.02	18.05	18.03	18.07	18.5
20	256QAM	50	24	18.07	18.12	18.02	18.00	
20	256QAM	50	50	18.06	18.06	18.10	18.02	
20	256QAM	100	0	18.12	18.10	18.08	18.05	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	19.87	19.94	19.89	19.88	20.3
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	19.91	19.94	19.86	19.85	20.3
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	19.90	19.88	19.85	19.84	20.3



<LTE Band 48_Ant 8_DSI 4_Main PA>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.57	21.71	21.69	21.61	22.5
20	QPSK	1	49	21.50	21.53	21.67	21.59	
20	QPSK	1	99	21.54	21.64	21.63	21.53	
20	QPSK	50	0	20.47	20.61	20.58	20.46	21.5
20	QPSK	50	24	20.32	20.51	20.46	20.41	
20	QPSK	50	50	20.27	20.44	20.38	20.34	
20	QPSK	100	0	20.22	20.45	20.41	20.33	
20	16QAM	1	0	20.49	20.63	20.61	20.44	21.5
20	16QAM	1	49	20.49	20.71	20.59	20.56	
20	16QAM	1	99	20.53	20.65	20.60	20.51	
20	16QAM	50	0	19.53	19.61	19.67	19.60	20.5
20	16QAM	50	24	19.54	19.71	19.67	19.56	
20	16QAM	50	50	19.53	19.65	19.59	19.60	
20	16QAM	100	0	19.55	19.68	19.59	19.52	
20	64QAM	1	0	19.17	19.31	19.25	19.16	20.5
20	64QAM	1	49	19.54	19.62	19.66	19.55	
20	64QAM	1	99	19.52	19.61	19.63	19.54	
20	64QAM	50	0	18.51	18.70	18.68	18.56	19.5
20	64QAM	50	24	18.54	18.65	18.65	18.59	
20	64QAM	50	50	18.53	18.70	18.62	18.57	
20	64QAM	100	0	18.53	18.61	18.67	18.55	
20	256QAM	1	0	16.31	16.45	16.38	16.32	17.5
20	256QAM	1	49	16.50	16.63	16.65	16.58	
20	256QAM	1	99	16.53	16.62	16.67	16.54	
20	256QAM	50	0	16.49	16.62	16.60	16.60	17.5
20	256QAM	50	24	16.55	16.70	16.59	16.60	
20	256QAM	50	50	16.55	16.62	16.63	16.56	
20	256QAM	100	0	16.52	16.62	16.67	16.54	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.48	21.68	21.63	21.53	22.5
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.53	21.64	21.65	21.58	22.5
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.50	21.67	21.60	21.58	22.5



<b>&lt;LTE Band 48_Ant 9_DSI 4_Main PA&gt;</b>								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	Tune-up limit (dBm)
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	21.16	21.21	21.19	21.15	22
20	QPSK	1	49	21.06	21.08	21.18	21.15	
20	QPSK	1	99	21.06	21.07	21.15	21.13	
20	QPSK	50	0	20.07	20.18	20.11	20.05	21
20	QPSK	50	24	19.99	20.05	19.99	19.97	
20	QPSK	50	50	20.04	20.17	20.06	20.09	
20	QPSK	100	0	20.00	20.14	20.11	20.00	
20	16QAM	1	0	20.15	20.22	20.15	20.16	21
20	16QAM	1	49	20.13	20.19	20.19	20.12	
20	16QAM	1	99	20.10	20.14	20.10	20.05	
20	16QAM	50	0	19.15	19.15	19.18	19.14	20
20	16QAM	50	24	19.06	19.17	19.17	19.07	
20	16QAM	50	50	19.11	19.20	19.10	19.09	
20	16QAM	100	0	19.16	19.13	19.19	19.12	
20	64QAM	1	0	18.79	18.94	18.82	18.84	20
20	64QAM	1	49	19.16	19.18	19.10	19.15	
20	64QAM	1	99	19.14	19.11	19.18	19.06	
20	64QAM	50	0	18.15	18.20	18.14	18.15	19
20	64QAM	50	24	18.08	18.19	18.15	18.07	
20	64QAM	50	50	18.14	18.20	18.15	18.13	
20	64QAM	100	0	18.13	18.15	18.18	18.15	
20	256QAM	1	0	15.99	16.06	15.98	15.96	17
20	256QAM	1	49	16.13	16.13	16.13	16.08	
20	256QAM	1	99	16.07	16.15	16.17	16.06	
20	256QAM	50	0	16.14	16.20	16.11	16.07	17
20	256QAM	50	24	16.07	16.16	16.16	16.08	
20	256QAM	50	50	16.13	16.17	16.09	16.07	
20	256QAM	100	0	16.12	16.19	16.16	16.12	
Channel				55315	55820	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3642	3692.5	
15	QPSK	1	0	21.10	21.13	21.16	21.09	22
Channel				55290	55815	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3642.5	3695	
10	QPSK	1	0	21.12	21.19	21.14	21.13	22
Channel				55265	55810	56170	56715	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3643	3697.5	
5	QPSK	1	0	21.08	21.15	21.17	21.07	22



<FR1 n5\_Ant 0\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	25.7
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.99	25.03	25.01	
20	PI/2 BPSK	1	53	24.96	25.01	24.98	25.2
20	PI/2 BPSK	1	104	24.83	24.93	24.86	
20	PI/2 BPSK	50	0	24.51	24.59	24.55	
20	PI/2 BPSK	50	28	24.88	25.01	24.92	25.2
20	PI/2 BPSK	50	56	24.51	24.63	24.53	
20	PI/2 BPSK	100	0	24.43	24.66	24.55	
20	QPSK	1	1	25.13	25.21	25.19	25.7
20	QPSK	1	53	24.83	24.89	24.87	
20	QPSK	1	104	24.90	25.01	24.93	
20	QPSK	50	0	24.44	24.51	24.42	24.7
20	QPSK	50	28	24.88	25.01	24.93	25.7
20	QPSK	50	56	24.47	24.59	24.53	24.7
20	QPSK	100	0	24.49	24.53	24.50	
20	16QAM	1	1	23.88	23.97	23.96	
20	64QAM	1	1	22.43	22.53	22.52	23.2
20	256QAM	1	1	19.20	19.26	19.22	21.2
Channel				166300	167300	168300	25.7
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.99	25.10	25.04	
Channel				165800	167300	168800	25.7
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.97	25.05	25.00	
Channel				165300	167300	169300	25.7
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.99	25.10	25.05	





<FR1 n5\_Ant 0\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.76	24.94	24.70	25.5
20	PI/2 BPSK	1	53	24.78	24.95	24.80	
20	PI/2 BPSK	1	104	24.81	24.93	24.73	
20	PI/2 BPSK	50	0	24.35	24.55	24.38	25.0
20	PI/2 BPSK	50	28	24.75	24.93	24.69	25.5
20	PI/2 BPSK	50	56	24.32	24.52	24.37	25.0
20	PI/2 BPSK	100	0	24.31	24.51	24.36	
20	QPSK	1	1	24.85	24.96	24.81	25.5
20	QPSK	1	53	24.61	24.81	24.58	
20	QPSK	1	104	24.73	24.91	24.73	
20	QPSK	50	0	23.78	23.92	23.72	24.5
20	QPSK	50	28	24.78	24.93	24.69	25.5
20	QPSK	50	56	23.79	23.94	23.78	24.5
20	QPSK	100	0	23.81	23.99	23.83	
20	16QAM	1	1	23.54	23.65	23.42	24.5
20	64QAM	1	1	22.34	22.46	22.29	23.0
20	256QAM	1	1	20.78	20.98	20.80	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.71	24.82	24.61	25.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.64	24.87	24.64	25.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.63	24.84	24.64	25.5



<FR1 n5\_Ant 1\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.23	24.32	24.10	25.5
20	PI/2 BPSK	1	53	24.15	24.30	24.06	
20	PI/2 BPSK	1	104	24.05	24.22	23.99	
20	PI/2 BPSK	50	0	23.68	23.76	23.57	25.0
20	PI/2 BPSK	50	28	24.04	24.20	23.93	25.5
20	PI/2 BPSK	50	56	23.73	23.82	23.53	25.0
20	PI/2 BPSK	100	0	23.65	23.76	23.53	
20	QPSK	1	1	24.28	24.35	24.16	25.5
20	QPSK	1	53	24.12	24.23	23.94	
20	QPSK	1	104	24.00	24.10	23.87	
20	QPSK	50	0	23.13	23.26	23.01	24.5
20	QPSK	50	28	24.08	24.17	23.88	25.5
20	QPSK	50	56	23.08	23.20	22.94	24.5
20	QPSK	100	0	22.91	23.02	22.79	
20	16QAM	1	1	22.83	22.99	22.73	24.5
20	64QAM	1	1	21.52	21.67	21.39	23.0
20	256QAM	1	1	20.12	20.20	19.98	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.16	24.29	24.06	25.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.19	24.29	24.04	25.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.17	24.30	24.06	25.5



<FR1 n5\_Ant 1\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.00	24.14	23.87	25.5
20	PI/2 BPSK	1	53	23.90	24.11	23.87	
20	PI/2 BPSK	1	104	23.89	24.05	23.77	
20	PI/2 BPSK	50	0	23.44	23.60	23.35	25.0
20	PI/2 BPSK	50	28	23.91	24.11	23.84	25.5
20	PI/2 BPSK	50	56	23.37	23.61	23.36	25.0
20	PI/2 BPSK	100	0	23.44	23.62	23.42	
20	QPSK	1	1	24.01	24.15	23.95	
20	QPSK	1	53	23.84	24.06	23.83	25.5
20	QPSK	1	104	23.85	24.01	23.78	
20	QPSK	50	0	22.81	23.03	22.79	
20	QPSK	50	28	23.88	24.02	23.80	25.5
20	QPSK	50	56	22.92	23.06	22.81	24.5
20	QPSK	100	0	22.75	22.94	22.74	
20	16QAM	1	1	22.61	22.77	22.50	
20	64QAM	1	1	21.37	21.57	21.36	23.0
20	256QAM	1	1	19.83	20.07	19.82	21.0
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.94	24.10	23.81	25.5
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.92	24.06	23.81	25.5
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.94	24.05	23.80	25.5



<FR1 n7\_Ant 2\_DSI 4\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	20.2
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	20.2
50	PI/2 BPSK	135	68	20.2
50	PI/2 BPSK	135	135	20.2
50	PI/2 BPSK	270	0	
50	QPSK	1	1	20.2
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	20.2
50	QPSK	135	68	20.2
50	QPSK	135	135	20.2
50	QPSK	270	0	
50	16QAM	1	1	20.2
50	64QAM	1	1	20.2
50	256QAM	1	1	20.2
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	20.2
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	20.2
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	20.2
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	20.2
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.2
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	20.2
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.2



<FR1 n7\_Ant 3\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				505000	507000	509000	
Frequency (MHz)				2525	2535	2545	
50	PI/2 BPSK	1	1	24.96	25.00	24.98	25.7
50	PI/2 BPSK	1	135	24.90	25.04	25.00	
50	PI/2 BPSK	1	268	24.87	24.92	24.84	
50	PI/2 BPSK	135	0	24.40	24.48	24.43	25.2
50	PI/2 BPSK	135	68	25.01	25.10	25.03	25.7
50	PI/2 BPSK	135	135	24.51	24.58	24.48	25.2
50	PI/2 BPSK	270	0	24.40	24.48	24.40	
50	QPSK	1	1	25.10	25.14	25.13	25.7
50	QPSK	1	135	24.86	25.00	24.92	
50	QPSK	1	268	24.83	24.94	24.86	
50	QPSK	135	0	23.88	24.02	23.98	24.7
50	QPSK	135	68	24.99	25.10	25.09	25.7
50	QPSK	135	135	23.90	24.00	23.96	24.7
50	QPSK	270	0	23.93	24.02	23.96	
50	16QAM	1	1	23.61	23.68	23.60	24.7
50	64QAM	1	1	22.07	22.16	22.07	23.2
50	256QAM	1	1	20.73	20.82	20.80	21.2
Channel				504000	507000	510000	Tune-up limit (dBm)
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	24.93	24.99	24.94	25.7
Channel				503000	507000	511000	Tune-up limit (dBm)
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	24.91	24.91	24.94	25.7
Channel				502500	507000	511500	Tune-up limit (dBm)
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.89	24.97	24.92	25.7
Channel				502000	507000	512000	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.88	24.91	24.91	25.7
Channel				501500	507000	512500	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.94	24.91	24.91	25.7
Channel				501000	507000	513000	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.92	24.95	24.92	25.7
Channel				500500	507000	513500	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.91	24.98	24.92	25.7



<FR1 n7\_Ant 4\_DSI 4\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	24.5
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	24.0
50	PI/2 BPSK	135	68	24.5
50	PI/2 BPSK	135	135	24.0
50	PI/2 BPSK	270	0	
50	QPSK	1	1	24.5
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	23.5
50	QPSK	135	68	24.5
50	QPSK	135	135	23.5
50	QPSK	270	0	
50	16QAM	1	1	23.5
50	64QAM	1	1	22.0
50	256QAM	1	1	20.0
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	24.5
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	24.5
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	24.5
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	24.5
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.5
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	24.5
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.5



<FR1 n7\_Ant 5\_DSI 4\_Main PA>

Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel	505000	507000	509000	
Frequency (MHz)	2525	2535	2545	
50	PI/2 BPSK	1	1	25.7
50	PI/2 BPSK	1	135	
50	PI/2 BPSK	1	268	
50	PI/2 BPSK	135	0	25.2
50	PI/2 BPSK	135	68	25.7
50	PI/2 BPSK	135	135	25.2
50	PI/2 BPSK	270	0	
50	QPSK	1	1	25.7
50	QPSK	1	135	
50	QPSK	1	268	
50	QPSK	135	0	24.7
50	QPSK	135	68	25.7
50	QPSK	135	135	24.7
50	QPSK	270	0	
50	16QAM	1	1	24.7
50	64QAM	1	1	23.2
50	256QAM	1	1	21.2
Channel	504000	507000	510000	
Frequency (MHz)	2520	2535	2550	
40	PI/2 BPSK	1	1	25.7
Channel	503000	507000	511000	
Frequency (MHz)	2515	2535	2555	
30	PI/2 BPSK	1	1	25.7
Channel	502500	507000	511500	
Frequency (MHz)	2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	25.7
Channel	502000	507000	512000	
Frequency (MHz)	2510	2535	2560	
20	PI/2 BPSK	1	1	25.7
Channel	501500	507000	512500	
Frequency (MHz)	2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	25.7
Channel	501000	507000	513000	
Frequency (MHz)	2505	2535	2565	
10	PI/2 BPSK	1	1	25.7
Channel	500500	507000	513500	
Frequency (MHz)	2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	25.7



<FR1 n12\_Ant 0\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	25.0
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.44	24.51	24.48	25.0
15	PI/2 BPSK	1	40	24.33	24.46	24.43	
15	PI/2 BPSK	1	77	24.37	24.43	24.40	
15	PI/2 BPSK	36	0	23.81	23.91	23.86	24.5
15	PI/2 BPSK	36	22	24.30	24.45	24.32	25.0
15	PI/2 BPSK	36	43	23.79	23.91	23.82	24.5
15	PI/2 BPSK	75	0	23.81	23.96	23.87	
15	QPSK	1	1	24.49	24.56	24.55	25.0
15	QPSK	1	40	24.10	24.35	24.15	
15	QPSK	1	77	24.28	24.34	24.31	
15	QPSK	36	0	23.86	23.88	23.87	24.0
15	QPSK	36	22	23.81	23.93	23.88	25.0
15	QPSK	36	43	23.38	23.49	23.43	24.0
15	QPSK	75	0	23.42	23.46	23.44	
15	16QAM	1	1	23.31	23.41	23.38	24.0
15	64QAM	1	1	21.77	21.93	21.83	22.5
	256QAM	1	1	20.32	20.48	20.42	20.5
Channel				140800	141500	142200	25.0
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.36	24.41	24.40	25.0
Channel				140300	141500	142700	25.0
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.32	24.39	24.36	25.0





<FR1 n12\_Ant 1\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.34	23.67	23.46	24.5
15	PI/2 BPSK	1	40	23.36	23.66	23.51	
15	PI/2 BPSK	1	77	23.29	23.58	23.37	
15	PI/2 BPSK	36	0	23.07	23.38	23.17	24.0
15	PI/2 BPSK	36	22	23.25	23.58	23.37	24.5
15	PI/2 BPSK	36	43	23.05	23.36	23.12	24.0
15	PI/2 BPSK	75	0	23.00	23.26	23.09	
15	QPSK	1	1	23.42	23.68	23.53	24.5
15	QPSK	1	40	23.21	23.51	23.35	
15	QPSK	1	77	23.16	23.43	23.25	
15	QPSK	36	0	22.46	22.78	22.61	23.5
15	QPSK	36	22	23.09	23.45	23.23	24.5
15	QPSK	36	43	22.45	22.75	22.52	23.5
15	QPSK	75	0	22.36	22.72	22.49	
15	16QAM	1	1	22.06	22.39	22.17	23.5
15	64QAM	1	1	20.54	20.88	20.68	22.0
	256QAM	1	1	19.17	19.46	19.22	20.0
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.32	23.61	23.40	24.5
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.31	23.61	23.43	24.5



<FR1 n25\_Ant 2\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	22.5
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.53	21.59	21.49	22.5
40	PI/2 BPSK	1	108	21.66	21.77	21.61	
40	PI/2 BPSK	1	214	21.54	21.66	21.58	
40	PI/2 BPSK	108	0	21.34	21.39	21.23	22.5
40	PI/2 BPSK	108	54	21.44	21.51	21.38	22.5
40	PI/2 BPSK	108	108	21.25	21.37	21.28	22.5
40	PI/2 BPSK	216	0	21.26	21.31	21.21	
40	QPSK	1	1	21.81	21.83	21.77	22.5
40	QPSK	1	108	21.48	21.60	21.54	
40	QPSK	1	214	21.41	21.52	21.45	
40	QPSK	108	0	20.79	20.82	20.71	22.5
40	QPSK	108	54	21.29	21.35	21.23	22.5
40	QPSK	108	108	21.13	21.07	21.07	22.5
40	QPSK	216	0	21.18	21.15	21.09	
40	16QAM	1	1	21.15	21.19	21.17	22.5
40	64QAM	1	1	21.39	21.42	21.27	22.5
40	256QAM	1	1	20.05	20.12	20.03	20.0
Channel				373000	376500	380000	22.5
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.27	21.34	21.19	22.5
Channel				372500	376500	380500	22.5
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.25	21.32	21.22	22.5
Channel				372000	376500	381000	22.5
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.25	21.36	21.26	22.5
Channel				371500	376500	381500	22.5
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.28	21.30	21.21	22.5
Channel				371000	376500	382000	22.5
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.21	21.37	21.20	22.5
Channel				370500	376500	382500	22.5
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.25	21.36	21.21	22.5



<FR1 n25\_Ant 3\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.07	23.19	23.11	25.0
40	PI/2 BPSK	1	108	23.05	23.15	23.07	
40	PI/2 BPSK	1	214	23.00	23.11	23.00	
40	PI/2 BPSK	108	0	22.91	22.98	22.83	24.5
40	PI/2 BPSK	108	54	23.13	23.18	23.10	25.0
40	PI/2 BPSK	108	108	22.80	22.88	22.80	24.5
40	PI/2 BPSK	216	0	22.71	22.83	22.73	
40	QPSK	1	1	23.27	23.29	23.21	25.0
40	QPSK	1	108	23.05	23.15	23.07	
40	QPSK	1	214	23.09	23.19	23.06	
40	QPSK	108	0	22.38	22.43	22.31	24.0
40	QPSK	108	54	23.11	23.01	23.03	25.0
40	QPSK	108	108	22.31	22.34	22.21	24.0
40	QPSK	216	0	22.29	22.33	22.22	
40	16QAM	1	1	22.09	22.01	22.13	24.0
40	64QAM	1	1	20.51	20.55	20.55	22.5
40	256QAM	1	1	19.03	19.15	19.03	20.5
Channel				373000	376500	380000	25.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.03	23.12	23.04	25.0
Channel				372500	376500	380500	25.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.00	23.14	23.06	25.0
Channel				372000	376500	381000	25.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.01	23.13	23.07	25.0
Channel				371500	376500	381500	25.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.04	23.16	23.03	25.0
Channel				371000	376500	382000	25.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.00	23.12	23.04	25.0
Channel				370500	376500	382500	25.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.01	23.13	23.08	25.0



<FR1 n25\_Ant 4\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	21.67	21.73	21.68	23.5
40	PI/2 BPSK	1	108	21.56	21.70	21.59	
40	PI/2 BPSK	1	214	21.59	21.71	21.59	
40	PI/2 BPSK	108	0	21.39	21.46	21.37	23.0
40	PI/2 BPSK	108	54	21.62	21.67	21.63	23.5
40	PI/2 BPSK	108	108	21.38	21.46	21.40	23.0
40	PI/2 BPSK	216	0	21.36	21.43	21.34	
40	QPSK	1	1	21.93	21.97	21.95	23.5
40	QPSK	1	108	21.66	21.71	21.67	
40	QPSK	1	214	21.65	21.70	21.60	
40	QPSK	108	0	20.83	20.93	20.81	22.5
40	QPSK	108	54	21.55	21.67	21.62	23.5
40	QPSK	108	108	20.88	20.93	20.86	22.5
40	QPSK	216	0	20.82	20.94	20.82	
40	16QAM	1	1	20.56	20.63	20.55	22.5
40	64QAM	1	1	20.15	20.24	20.17	21.0
40	256QAM	1	1	17.62	17.66	17.61	19.0
Channel				373000	376500	380000	Tune-up limit (dBm)
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	21.55	21.66	21.60	23.5
Channel				372500	376500	380500	Tune-up limit (dBm)
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	21.58	21.61	21.63	23.5
Channel				372000	376500	381000	Tune-up limit (dBm)
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	21.56	21.65	21.62	23.5
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	21.55	21.66	21.63	23.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	21.56	21.65	21.62	23.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	21.60	21.62	21.56	23.5



**<FR1 n25\_Ant 5\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				374000	376500	379000	25.0
Frequency (MHz)				1870	1882.5	1895	
40	PI/2 BPSK	1	1	23.07	23.17	23.09	
40	PI/2 BPSK	1	108	23.14	23.31	23.21	24.5
40	PI/2 BPSK	1	214	23.08	23.22	23.18	
40	PI/2 BPSK	108	0	22.57	22.78	22.75	
40	PI/2 BPSK	108	54	23.09	23.18	23.13	25.0
40	PI/2 BPSK	108	108	22.53	22.75	22.65	
40	PI/2 BPSK	216	0	22.70	22.85	22.82	
40	QPSK	1	1	23.27	23.41	23.40	24.5
40	QPSK	1	108	23.07	23.23	23.14	
40	QPSK	1	214	23.06	23.09	23.08	
40	QPSK	108	0	22.07	22.26	22.21	25.0
40	QPSK	108	54	23.04	23.22	23.14	
40	QPSK	108	108	22.09	22.16	22.08	
40	QPSK	216	0	22.16	22.33	22.29	24.0
40	16QAM	1	1	22.02	22.12	22.11	
40	64QAM	1	1	20.50	20.57	20.50	
40	256QAM	1	1	18.74	18.95	18.84	20.5
Channel				373000	376500	380000	25.0
Frequency (MHz)				1865	1882.5	1900	
30	PI/2 BPSK	1	1	23.04	23.12	23.07	
Channel				372500	376500	380500	25.0
Frequency (MHz)				1862.5	1882.5	1902.5	
25	PI/2 BPSK	1	1	23.02	23.13	23.04	
Channel				372000	376500	381000	25.0
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.05	23.13	23.05	
Channel				371500	376500	381500	25.0
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.04	23.14	23.03	
Channel				371000	376500	382000	25.0
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.01	23.14	23.07	
Channel				370500	376500	382500	25.0
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.05	23.13	23.07	



<FR1 n26\_Ant 0\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	25.10	25.25	24.98	25.7
20	PI/2 BPSK	1	53	25.11	25.23	25.00	
20	PI/2 BPSK	1	104	25.08	25.21	24.94	
20	PI/2 BPSK	50	0	24.52	24.65	24.37	25.2
20	PI/2 BPSK	50	28	25.07	25.19	24.97	25.7
20	PI/2 BPSK	50	56	24.58	24.68	24.43	25.2
20	PI/2 BPSK	100	0	24.52	24.66	24.40	
20	QPSK	1	1	25.35	25.45	25.31	25.7
20	QPSK	1	53	25.21	25.36	25.16	
20	QPSK	1	104	25.16	25.35	25.13	
20	QPSK	50	0	24.62	24.69	24.59	24.7
20	QPSK	50	28	25.19	25.31	25.12	25.7
20	QPSK	50	56	24.07	24.21	23.99	24.7
20	QPSK	100	0	24.20	24.25	24.21	
20	16QAM	1	1	23.49	23.69	23.46	24.7
20	64QAM	1	1	21.98	22.16	21.95	23.2
20	256QAM	1	1	20.54	20.67	20.53	21.2
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	25.00	25.21	24.98	25.7
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	25.00	25.14	24.94	25.7
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	25.03	25.21	25.01	25.7



<FR1 n26\_Ant 1\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				164800	166300	167800	
Frequency (MHz)				824	831.5	839	
20	PI/2 BPSK	1	1	24.36	24.49	24.40	25.5
20	PI/2 BPSK	1	53	24.41	24.51	24.42	
20	PI/2 BPSK	1	104	24.31	24.42	24.26	
20	PI/2 BPSK	50	0	23.97	24.01	23.89	25.0
20	PI/2 BPSK	50	28	24.43	24.47	24.40	25.5
20	PI/2 BPSK	50	56	23.87	23.91	23.75	25.0
20	PI/2 BPSK	100	0	23.78	23.91	23.81	
20	QPSK	1	1	24.48	24.52	24.46	25.5
20	QPSK	1	53	24.42	24.51	24.38	
20	QPSK	1	104	24.23	24.35	24.23	
20	QPSK	50	0	23.31	23.45	23.36	24.5
20	QPSK	50	28	24.19	24.31	24.15	25.5
20	QPSK	50	56	23.22	23.35	23.21	24.5
20	QPSK	100	0	23.22	23.36	23.24	
20	16QAM	1	1	23.05	23.15	23.06	24.5
20	64QAM	1	1	21.53	21.63	21.50	23.0
20	256QAM	1	1	20.06	20.17	20.11	21.0
Channel				164300	166300	168300	Tune-up limit (dBm)
Frequency (MHz)				821.5	831.5	841.5	
15	PI/2 BPSK	1	1	24.33	24.41	24.35	25.5
Channel				163800	166300	168800	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	PI/2 BPSK	1	1	24.28	24.40	24.37	25.5
Channel				163300	166300	169300	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	PI/2 BPSK	1	1	24.30	24.45	24.37	25.5



**<FR1 n66\_Ant 2\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.28	21.39	21.33	22.0
40	PI/2 BPSK	1	108	21.33	21.47	21.33	
40	PI/2 BPSK	1	214	21.29	21.40	21.32	
40	PI/2 BPSK	108	0	21.30	21.43	21.40	22.0
40	PI/2 BPSK	108	54	21.33	21.44	21.33	22.0
40	PI/2 BPSK	108	108	21.30	21.47	21.37	22.0
40	PI/2 BPSK	216	0	21.29	21.41	21.32	
40	QPSK	1	1	21.37	21.48	21.41	
40	QPSK	1	108	21.36	21.44	21.31	22.0
40	QPSK	1	214	21.33	21.41	21.40	
40	QPSK	108	0	21.26	21.42	21.31	
40	QPSK	108	54	21.30	21.41	21.31	22.0
40	QPSK	108	108	21.33	21.37	21.39	22.0
40	QPSK	216	0	21.27	21.38	21.35	
40	16QAM	1	1	21.28	21.47	21.39	
40	64QAM	1	1	21.35	21.38	21.31	22.0
40	256QAM	1	1	19.85	19.90	19.88	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.22	21.32	21.22	22.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.24	21.27	21.21	22.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.23	21.29	21.28	22.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.16	21.31	21.27	22.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.18	21.27	21.23	22.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.22	21.31	21.24	22.0





<FR1 n66\_Ant 2\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	19.51	19.65	19.69	20.5
40	PI/2 BPSK	1	108	19.58	19.72	19.70	
40	PI/2 BPSK	1	214	19.53	19.62	19.67	
40	PI/2 BPSK	108	0	19.54	19.71	19.61	20.5
40	PI/2 BPSK	108	54	19.51	19.66	19.67	20.5
40	PI/2 BPSK	108	108	19.55	19.70	19.66	20.5
40	PI/2 BPSK	216	0	19.55	19.72	19.62	
40	QPSK	1	1	19.62	19.73	19.71	20.5
40	QPSK	1	108	19.56	19.63	19.62	
40	QPSK	1	214	19.57	19.62	19.66	
40	QPSK	108	0	19.60	19.68	19.68	20.5
40	QPSK	108	54	19.54	19.66	19.70	20.5
40	QPSK	108	108	19.55	19.68	19.62	20.5
40	QPSK	216	0	19.60	19.72	19.67	
40	16QAM	1	1	19.51	19.63	19.60	20.5
40	64QAM	1	1	19.56	19.65	19.69	20.5
40	256QAM	1	1	18.04	18.14	18.11	19.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	19.39	19.59	19.57	20.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	19.43	19.59	19.60	20.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	19.40	19.55	19.62	20.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	19.39	19.61	19.61	20.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	19.47	19.60	19.63	20.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	19.44	19.54	19.57	20.5



<FR1 n66\_Ant 3\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.40	23.59	23.53	25.0
40	PI/2 BPSK	1	108	23.32	23.51	23.47	
40	PI/2 BPSK	1	214	23.31	23.55	23.50	
40	PI/2 BPSK	108	0	23.05	23.26	23.16	24.5
40	PI/2 BPSK	108	54	23.19	23.24	23.16	25.0
40	PI/2 BPSK	108	108	23.13	23.34	23.27	24.5
40	PI/2 BPSK	216	0	23.13	23.33	23.23	
40	QPSK	1	1	23.59	23.78	23.75	25.0
40	QPSK	1	108	23.32	23.55	23.46	
40	QPSK	1	214	23.24	23.49	23.42	
40	QPSK	108	0	22.55	22.75	22.67	24.0
40	QPSK	108	54	23.34	23.56	23.47	25.0
40	QPSK	108	108	22.49	22.77	22.73	24.0
40	QPSK	216	0	22.55	22.76	22.65	
40	16QAM	1	1	22.43	22.65	22.62	24.0
40	64QAM	1	1	21.05	21.25	21.14	22.5
40	256QAM	1	1	19.60	19.79	19.75	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.33	23.49	23.48	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.33	23.47	23.47	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.35	23.50	23.46	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.34	23.51	23.48	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.28	23.48	23.43	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.31	23.52	23.47	25.0



<FR1 n66\_Ant 3\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.23	24.30	24.19	25.5
40	PI/2 BPSK	1	108	24.13	24.26	24.11	
40	PI/2 BPSK	1	214	24.30	24.39	24.27	
40	PI/2 BPSK	108	0	23.54	23.65	23.48	25.0
40	PI/2 BPSK	108	54	24.16	24.26	24.14	25.5
40	PI/2 BPSK	108	108	23.73	23.87	23.76	25.0
40	PI/2 BPSK	216	0	23.68	23.76	23.61	
40	QPSK	1	1	24.25	24.32	24.21	25.5
40	QPSK	1	108	24.17	24.30	24.11	
40	QPSK	1	214	24.15	24.31	24.16	
40	QPSK	108	0	23.22	23.39	23.24	24.5
40	QPSK	108	54	24.29	24.46	24.32	25.5
40	QPSK	108	108	23.23	23.36	23.25	24.5
40	QPSK	216	0	23.18	23.33	23.18	
40	16QAM	1	1	22.92	23.07	22.93	24.5
40	64QAM	1	1	21.59	21.66	21.49	23.0
40	256QAM	1	1	19.52	19.61	19.42	21.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	24.19	24.21	24.14	25.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	24.18	24.20	24.13	25.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.18	24.19	24.11	25.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.16	24.19	24.15	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.14	24.20	24.15	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.13	24.21	24.10	25.5



<FR1 n66\_Ant 4\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	21.97	22.15	21.99	23.5
40	PI/2 BPSK	1	108	21.91	22.12	21.93	
40	PI/2 BPSK	1	214	21.83	22.18	21.88	
40	PI/2 BPSK	108	0	21.06	21.77	21.10	23.0
40	PI/2 BPSK	108	54	22.05	22.12	22.03	23.5
40	PI/2 BPSK	108	108	21.13	21.76	21.16	23.0
40	PI/2 BPSK	216	0	21.19	21.86	21.22	
40	QPSK	1	1	22.07	22.21	22.09	23.5
40	QPSK	1	108	21.97	22.11	21.99	
40	QPSK	1	214	21.89	22.04	21.93	
40	QPSK	108	0	21.15	21.25	21.16	22.5
40	QPSK	108	54	22.11	22.14	22.12	23.5
40	QPSK	108	108	21.19	21.23	21.21	22.5
40	QPSK	216	0	21.29	21.33	21.30	
40	16QAM	1	1	21.01	21.13	20.94	22.5
40	64QAM	1	1	19.57	19.67	19.47	21.0
40	256QAM	1	1	18.16	18.33	18.16	19.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	21.94	22.09	21.97	23.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	21.96	22.07	21.98	23.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	21.87	22.05	21.95	23.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	21.87	22.11	21.93	23.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	21.93	22.11	21.90	23.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	21.89	22.10	21.91	23.5



<FR1 n66\_Ant 4\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	22.70	22.78	22.70	24.5
40	PI/2 BPSK	1	108	22.85	22.91	22.84	
40	PI/2 BPSK	1	214	22.67	22.74	22.68	
40	PI/2 BPSK	108	0	22.13	22.15	22.05	24.0
40	PI/2 BPSK	108	54	22.78	22.83	22.78	24.5
40	PI/2 BPSK	108	108	22.06	22.09	22.05	24.0
40	PI/2 BPSK	216	0	22.07	22.09	22.04	
40	QPSK	1	1	22.92	22.93	22.90	24.5
40	QPSK	1	108	22.80	22.81	22.72	
40	QPSK	1	214	22.63	22.71	22.66	
40	QPSK	108	0	21.65	21.66	21.57	23.5
40	QPSK	108	54	22.64	22.68	22.57	24.5
40	QPSK	108	108	21.61	21.68	21.65	23.5
40	QPSK	216	0	21.54	21.57	21.55	
40	16QAM	1	1	22.67	22.75	22.70	23.5
40	64QAM	1	1	20.39	20.43	20.34	22.0
40	256QAM	1	1	18.56	18.57	18.47	20.0
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	22.67	22.69	22.63	24.5
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	22.66	22.74	22.66	24.5
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	22.67	22.71	22.65	24.5
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	22.67	22.71	22.61	24.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	22.63	22.73	22.63	24.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	22.65	22.70	22.63	24.5



**<FR1 n66\_Ant 5\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	Tune-up limit (dBm)
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.46	23.68	23.65	25.0
40	PI/2 BPSK	1	108	23.48	23.70	23.66	
40	PI/2 BPSK	1	214	23.50	23.71	23.69	
40	PI/2 BPSK	108	0	23.25	23.44	23.39	24.5
40	PI/2 BPSK	108	54	23.51	23.68	23.60	25.0
40	PI/2 BPSK	108	108	23.26	23.42	23.31	24.5
40	PI/2 BPSK	216	0	23.36	23.56	23.55	
40	QPSK	1	1	23.80	23.94	23.93	
40	QPSK	1	108	23.50	23.70	23.61	25.0
40	QPSK	1	214	23.55	23.76	23.69	
40	QPSK	108	0	22.73	22.90	22.83	
40	QPSK	108	54	23.59	23.79	23.75	25.0
40	QPSK	108	108	22.67	22.89	22.78	24.0
40	QPSK	216	0	22.68	22.90	22.86	
40	16QAM	1	1	22.50	22.74	22.66	24.0
40	64QAM	1	1	22.04	22.26	22.18	22.5
40	256QAM	1	1	19.80	20.00	19.97	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.37	23.62	23.60	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.40	23.64	23.61	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.37	23.59	23.60	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.43	23.59	23.57	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.38	23.65	23.59	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.37	23.62	23.59	25.0



<FR1 n66\_Ant 5\_DSI 4\_Other PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	23.91	24.16	23.98	25.0
40	PI/2 BPSK	1	108	23.98	24.18	23.99	
40	PI/2 BPSK	1	214	23.64	23.93	23.73	
40	PI/2 BPSK	108	0	23.35	23.55	23.32	24.5
40	PI/2 BPSK	108	54	23.93	24.13	23.90	25.0
40	PI/2 BPSK	108	108	23.17	23.43	23.18	24.5
40	PI/2 BPSK	216	0	23.03	23.32	23.14	
40	QPSK	1	1	24.25	24.45	24.27	25.0
40	QPSK	1	108	23.88	24.18	23.91	
40	QPSK	1	214	23.62	23.91	23.71	
40	QPSK	108	0	22.74	23.02	22.82	24.0
40	QPSK	108	54	24.13	24.38	24.10	25.0
40	QPSK	108	108	22.71	22.93	22.68	24.0
40	QPSK	216	0	22.76	22.96	22.70	
40	16QAM	1	1	22.98	23.25	23.03	24.0
40	64QAM	1	1	20.93	21.20	21.01	22.5
40	256QAM	1	1	19.73	19.95	19.75	20.5
Channel				345000	349000	353000	Tune-up limit (dBm)
Frequency (MHz)				1725	1745	1765	
30	PI/2 BPSK	1	1	23.81	24.10	23.88	25.0
Channel				344500	349000	353500	Tune-up limit (dBm)
Frequency (MHz)				1722.5	1745	1767.5	
25	PI/2 BPSK	1	1	23.81	24.07	23.90	25.0
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.86	24.11	23.90	25.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.86	24.11	23.94	25.0
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.86	24.10	23.90	25.0
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.82	24.13	23.88	25.0



<FR1 n38\_Ant 2\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	21.43	21.40	21.34	21.7
40	PI/2 BPSK	1	53	21.43	21.43	21.41	
40	PI/2 BPSK	1	104	21.40	21.39	21.41	
40	PI/2 BPSK	50	0	21.41	21.40	21.39	21.7
40	PI/2 BPSK	50	28	21.40	21.38	21.35	21.7
40	PI/2 BPSK	50	56	21.40	21.41	21.41	21.7
40	PI/2 BPSK	100	0	21.36	21.38	21.34	
40	QPSK	1	1	21.44	21.49	21.42	21.7
40	QPSK	1	53	21.42	21.39	21.32	
40	QPSK	1	104	21.43	21.40	21.36	
40	QPSK	50	0	21.36	21.44	21.41	21.7
40	QPSK	50	28	21.42	21.44	21.40	21.7
40	QPSK	50	56	21.38	21.45	21.31	21.7
40	QPSK	100	0	21.38	21.47	21.37	
40	16QAM	1	1	21.34	21.48	21.38	21.7
40	64QAM	1	1	21.42	21.46	21.34	21.7
40	256QAM	1	1	20.85	20.93	20.87	21.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	21.40	21.31	21.24	21.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	21.38	21.30	21.26	21.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	21.40	21.29	21.30	21.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	21.38	21.36	21.28	21.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	21.33	21.32	21.30	21.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	21.39	21.29	21.25	21.7





<FR1 n38\_Ant 3\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.82	24.89	24.67	25.7
40	PI/2 BPSK	1	53	24.75	24.79	24.56	
40	PI/2 BPSK	1	104	24.86	24.88	24.72	
40	PI/2 BPSK	50	0	24.35	24.42	24.19	25.2
40	PI/2 BPSK	50	28	24.76	24.85	24.66	25.7
40	PI/2 BPSK	50	56	24.76	24.78	24.64	25.2
40	PI/2 BPSK	100	0	24.60	24.71	24.49	
40	QPSK	1	1	24.89	24.91	24.78	25.7
40	QPSK	1	53	24.87	24.89	24.72	
40	QPSK	1	104	24.73	24.85	24.64	
40	QPSK	50	0	23.88	23.92	23.71	24.7
40	QPSK	50	28	24.72	24.81	24.66	25.7
40	QPSK	50	56	24.59	24.70	24.47	24.7
40	QPSK	100	0	24.63	24.69	24.54	
40	16QAM	1	1	23.49	23.51	23.37	24.7
40	64QAM	1	1	22.06	22.09	21.89	23.2
40	256QAM	1	1	20.63	20.73	20.59	21.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.80	24.83	24.64	25.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	24.75	24.88	24.65	25.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.76	24.83	24.59	25.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.80	24.81	24.59	25.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.74	24.82	24.64	25.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	24.75	24.85	24.59	25.7



<FR1 n38\_Ant 4\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	22.44	22.61	22.44	24.0
40	PI/2 BPSK	1	53	22.34	22.55	22.41	
40	PI/2 BPSK	1	104	22.41	22.56	22.38	
40	PI/2 BPSK	50	0	21.92	22.04	21.87	23.5
40	PI/2 BPSK	50	28	22.39	22.51	22.30	24.0
40	PI/2 BPSK	50	56	22.37	22.56	22.35	23.5
40	PI/2 BPSK	100	0	21.86	22.01	21.77	
40	QPSK	1	1	22.53	22.65	22.51	24.0
40	QPSK	1	53	22.31	22.43	22.28	
40	QPSK	1	104	22.32	22.45	22.21	
40	QPSK	50	0	21.39	21.54	21.34	23.0
40	QPSK	50	28	22.28	22.43	22.21	24.0
40	QPSK	50	56	22.18	22.34	22.17	23.0
40	QPSK	100	0	21.35	21.54	21.32	
40	16QAM	1	1	21.27	21.42	21.26	23.0
40	64QAM	1	1	19.68	19.87	19.63	21.5
40	256QAM	1	1	18.28	18.49	18.34	19.5
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	22.42	22.56	22.39	24.0
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	22.41	22.58	22.42	24.0
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	22.42	22.59	22.40	24.0
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	22.35	22.57	22.42	24.0
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	22.41	22.54	22.37	24.0
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	22.35	22.52	22.38	24.0



**<FR1 n38\_Ant 5\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				518000	519000	520000	
Frequency (MHz)				2590	2595	2600	
40	PI/2 BPSK	1	1	24.63	24.84	24.70	25.7
40	PI/2 BPSK	1	53	24.74	24.87	24.71	
40	PI/2 BPSK	1	104	24.70	24.88	24.68	
40	PI/2 BPSK	50	0	24.19	24.33	24.18	25.2
40	PI/2 BPSK	50	28	24.60	24.74	24.53	25.7
40	PI/2 BPSK	50	56	24.55	24.77	24.62	25.2
40	PI/2 BPSK	100	0	23.95	24.18	24.04	
40	QPSK	1	1	24.77	24.90	24.76	25.7
40	QPSK	1	53	24.60	24.76	24.61	
40	QPSK	1	104	24.48	24.70	24.51	
40	QPSK	50	0	23.59	23.80	23.60	24.7
40	QPSK	50	28	24.39	24.59	24.38	25.7
40	QPSK	50	56	24.34	24.54	24.38	24.7
40	QPSK	100	0	24.14	24.33	24.15	
40	16QAM	1	1	24.30	24.45	24.30	24.7
40	64QAM	1	1	22.09	22.24	22.03	23.2
40	256QAM	1	1	20.46	20.69	20.45	21.2
Channel				517000	519000	521000	Tune-up limit (dBm)
Frequency (MHz)				2585	2595	2605	
30	PI/2 BPSK	1	1	24.59	24.74	24.61	25.7
Channel				516500	519000	521500	Tune-up limit (dBm)
Frequency (MHz)				2582.5	2595	2607.5	
25	PI/2 BPSK	1	1	24.53	24.74	24.67	25.7
Channel				516000	519000	522000	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	PI/2 BPSK	1	1	24.56	24.74	24.67	25.7
Channel				515500	519000	522500	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	PI/2 BPSK	1	1	24.59	24.81	24.62	25.7
Channel				515000	519000	523000	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	PI/2 BPSK	1	1	24.58	24.76	24.62	25.7
Channel				514500	519000	523500	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	PI/2 BPSK	1	1	24.59	24.75	24.64	25.7

**<FR1 n41\_Ant 2\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	20.0
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	19.55	19.61	19.43	
100	PI/2 BPSK	1	137	19.49	19.64	19.44	20.0
100	PI/2 BPSK	1	271	19.49	19.56	19.40	
100	PI/2 BPSK	135	0	19.48	19.66	19.47	20.0
100	PI/2 BPSK	135	69	19.45	19.58	19.46	20.0
100	PI/2 BPSK	135	138	19.53	19.64	19.47	20.0
100	PI/2 BPSK	270	0	19.55	19.60	19.47	
100	QPSK	1	1	19.56	19.67	19.51	20.0
100	QPSK	1	137	19.52	19.65	19.44	
100	QPSK	1	271	19.45	19.61	19.42	
100	QPSK	135	0	19.46	19.57	19.41	20.0
100	QPSK	135	69	19.55	19.63	19.46	20.0
100	QPSK	135	138	19.55	19.59	19.40	20.0
100	QPSK	270	0	19.47	19.64	19.41	
100	16QAM	1	1	19.49	19.65	19.42	20.0
100	64QAM	1	1	19.54	19.57	19.42	20.0
100	256QAM	1	1	19.45	19.63	19.44	20.0
Channel				508200	518598	528996	20.0
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	19.49	19.52	19.35	20.0
Channel				507204	518598	529998	20.0
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	19.45	19.53	19.35	20.0
Channel				505200	518598	531996	20.0
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	19.48	19.54	19.36	20.0
Channel				504204	518598	532998	20.0
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	19.50	19.56	19.37	20.0
Channel				503202	518598	534000	20.0
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	19.45	19.55	19.33	20.0
Channel				502200	518598	534996	20.0
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	19.46	19.50	19.36	20.0
Channel				501204	518598	535998	20.0
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	19.45	19.50	19.38	20.0
Channel				500700	518598	536496	20.0
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	19.44	19.53	19.37	20.0
Channel				500202	518598	537000	20.0
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	19.46	19.55	19.38	20.0

**<FR1 n41\_Ant 3\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
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Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.34	23.45	23.20	24.5
100	PI/2 BPSK	1	137	23.30	23.35	23.10	
100	PI/2 BPSK	1	271	23.23	23.31	23.00	
100	PI/2 BPSK	135	0	23.30	23.36	23.12	24.0
100	PI/2 BPSK	135	69	23.30	23.36	23.12	24.5
100	PI/2 BPSK	135	138	23.14	23.21	22.91	24.0
100	PI/2 BPSK	270	0	23.12	23.19	22.88	
100	QPSK	1	1	23.53	23.55	23.31	
100	QPSK	1	137	23.23	23.35	23.05	24.5
100	QPSK	1	271	23.23	23.33	23.07	
100	QPSK	135	0	23.34	23.41	23.08	
100	QPSK	135	69	23.28	23.35	23.08	24.5
100	QPSK	135	138	23.15	23.27	22.96	23.5
100	QPSK	270	0	23.07	23.19	22.92	
100	16QAM	1	1	23.10	23.22	22.98	
100	64QAM	1	1	21.58	21.69	21.39	22.0
100	256QAM	1	1	19.89	19.98	19.73	20.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.28	23.35	23.10	24.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.27	23.38	23.09	24.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.30	23.34	23.13	24.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.31	23.34	23.09	24.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.30	23.41	23.10	24.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.28	23.40	23.10	24.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.30	23.38	23.14	24.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.31	23.35	23.15	24.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.31	23.42	23.11	24.5

<FR1 n41\_Ant 4\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	21.16	21.35	21.18	22.5
100	PI/2 BPSK	1	137	20.92	21.14	20.95	
100	PI/2 BPSK	1	271	20.55	20.78	20.62	



100	PI/2 BPSK	135	0	21.04	21.23	21.09	22.0
100	PI/2 BPSK	135	69	20.97	21.20	21.10	22.5
100	PI/2 BPSK	135	138	20.72	20.97	20.79	22.0
100	PI/2 BPSK	270	0	20.93	21.13	20.99	
100	QPSK	1	1	21.21	21.37	21.27	22.5
100	QPSK	1	137	20.96	21.13	21.02	
100	QPSK	1	271	20.55	20.76	20.60	
100	QPSK	135	0	21.00	21.19	21.02	21.5
100	QPSK	135	69	21.05	21.21	21.05	22.5
100	QPSK	135	138	20.76	20.96	20.84	21.5
100	QPSK	270	0	20.96	21.15	21.01	
100	16QAM	1	1	20.89	21.05	20.88	21.5
100	64QAM	1	1	19.75	19.96	19.86	20.0
100	256QAM	1	1	17.63	17.86	17.73	18.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	21.14	21.33	21.14	22.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	21.14	21.33	21.15	22.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	21.12	21.33	21.14	22.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	21.11	21.30	21.14	22.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	21.11	21.30	21.13	22.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	21.12	21.30	21.14	22.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	21.12	21.31	21.16	22.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	21.13	21.30	21.15	22.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	21.11	21.33	21.13	22.5

**<FR1 n41\_Ant 5\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.21	23.33	23.17	24.0
100	PI/2 BPSK	1	137	23.27	23.30	23.21	
100	PI/2 BPSK	1	271	23.03	23.10	23.03	
100	PI/2 BPSK	135	0	23.22	23.27	23.13	23.5
100	PI/2 BPSK	135	69	23.28	23.40	23.27	24.0
100	PI/2 BPSK	135	138	23.11	23.24	23.14	23.5
100	PI/2 BPSK	270	0	23.11	23.14	23.01	
100	QPSK	1	1	23.45	23.48	23.42	24.0



100	QPSK	1	137	23.26	23.32	23.17	
100	QPSK	1	271	23.02	23.05	22.97	
100	QPSK	135	0	22.90	22.95	22.88	23.0
100	QPSK	135	69	23.37	23.44	23.37	24.0
100	QPSK	135	138	22.90	22.96	22.85	23.0
100	QPSK	270	0	22.90	22.94	22.79	
100	16QAM	1	1	22.85	22.96	22.87	23.0
100	64QAM	1	1	21.35	21.44	21.37	21.5
100	256QAM	1	1	19.34	19.40	19.31	19.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.09	23.30	23.07	24.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.10	23.28	23.15	24.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.17	23.28	23.08	24.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.14	23.25	23.09	24.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.11	23.30	23.14	24.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.17	23.22	23.10	24.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.15	23.24	23.05	24.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.10	23.25	23.05	24.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.10	23.28	23.11	24.0

<FR1 n41\_HPUE\_Ant 2\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	22.57	22.66	22.52	23.0
100	PI/2 BPSK	1	137	22.67	22.64	22.49	
100	PI/2 BPSK	1	271	22.60	22.65	22.56	
100	PI/2 BPSK	135	0	22.59	22.64	22.51	23.0
100	PI/2 BPSK	135	69	22.64	22.68	22.55	23.0
100	PI/2 BPSK	135	138	22.58	22.70	22.54	23.0
100	PI/2 BPSK	270	0	22.58	22.66	22.54	
100	QPSK	1	1	22.68	22.71	22.59	23.0
100	QPSK	1	137	22.61	22.65	22.48	
100	QPSK	1	271	22.63	22.67	22.50	
100	QPSK	135	0	22.58	22.66	22.48	23.0
100	QPSK	135	69	22.58	22.63	22.57	23.0
100	QPSK	135	138	22.59	22.68	22.53	23.0



100	QPSK	270	0	22.57	22.70	22.55	
100	16QAM	1	1	22.62	22.70	22.54	23.0
100	64QAM	1	1	22.59	22.67	22.56	23.0
100	256QAM	1	1	22.60	22.63	22.52	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	22.54	22.57	22.43	23.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	22.53	22.57	22.48	23.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	22.53	22.58	22.44	23.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	22.53	22.63	22.45	23.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	22.51	22.55	22.48	23.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	22.54	22.62	22.43	23.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	22.49	22.61	22.41	23.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	22.54	22.55	22.49	23.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	22.53	22.59	22.46	23.0

<FR1 n41\_HPUE\_Ant 3\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.09	26.25	26.03	27.5
100	PI/2 BPSK	1	137	26.07	26.21	26.00	
100	PI/2 BPSK	1	271	26.07	26.29	25.99	
100	PI/2 BPSK	135	0	25.48	25.71	25.40	27.0
100	PI/2 BPSK	135	69	25.95	26.18	25.89	27.5
100	PI/2 BPSK	135	138	25.36	25.51	25.20	27.0
100	PI/2 BPSK	270	0	25.37	25.53	25.32	
100	QPSK	1	1	26.25	26.39	26.18	27.5
100	QPSK	1	137	25.91	26.15	25.84	
100	QPSK	1	271	26.12	26.29	26.07	
100	QPSK	135	0	25.22	25.37	25.09	26.5
100	QPSK	135	69	26.07	26.21	25.93	27.5
100	QPSK	135	138	24.83	25.06	24.85	26.5
100	QPSK	270	0	24.79	25.00	24.73	
100	16QAM	1	1	25.04	25.21	24.95	26.5
100	64QAM	1	1	23.65	23.81	23.51	25.0
100	256QAM	1	1	21.97	22.14	21.84	23.0
Channel				508200	518598	528996	Tune-up limit





Frequency (MHz)				2541	2592.99	2644.98	(dBm)
90	PI/2 BPSK	1	1	26.06	26.16	25.96	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.02	26.20	25.99	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.00	26.20	25.96	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.00	26.23	25.96	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.01	26.17	25.96	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.00	26.21	25.96	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.07	26.19	25.94	27.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.01	26.23	25.99	27.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.00	26.18	25.95	27.5

<FR1 n41\_HPUE\_Ant 4\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.75	23.88	23.58	25.5
100	PI/2 BPSK	1	137	23.73	23.83	23.58	
100	PI/2 BPSK	1	271	23.78	23.88	23.65	
100	PI/2 BPSK	135	0	23.18	23.25	23.13	25.0
100	PI/2 BPSK	135	69	23.74	23.81	23.53	25.5
100	PI/2 BPSK	135	138	23.21	23.25	23.16	25.0
100	PI/2 BPSK	270	0	23.09	23.23	23.14	
100	QPSK	1	1	23.91	23.95	23.73	25.5
100	QPSK	1	137	23.82	23.87	23.64	
100	QPSK	1	271	23.82	23.88	23.56	
100	QPSK	135	0	22.83	22.88	22.56	24.5
100	QPSK	135	69	23.77	23.81	23.53	25.5
100	QPSK	135	138	22.59	22.65	22.58	24.5
100	QPSK	270	0	22.52	22.63	22.59	
100	16QAM	1	1	22.66	22.76	22.66	24.5
100	64QAM	1	1	21.32	21.43	21.11	23.0
100	256QAM	1	1	19.60	19.67	19.39	21.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	23.70	23.83	23.53	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.68	23.82	23.53	25.5



Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.71	23.82	23.54	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.72	23.84	23.51	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.71	23.81	23.53	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	23.73	23.86	23.55	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.73	23.83	23.52	25.5
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	23.71	23.82	23.53	25.5
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.73	23.81	23.55	25.5

<FR1 n41\_HPUE\_Ant 5\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				509202	518598	528000	Tune-up limit (dBm)
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.11	26.18	26.00	27.0
100	PI/2 BPSK	1	137	26.01	26.10	25.94	
100	PI/2 BPSK	1	271	26.01	26.06	25.91	
100	PI/2 BPSK	135	0	25.78	25.83	25.66	26.5
100	PI/2 BPSK	135	69	25.95	26.08	25.84	27.0
100	PI/2 BPSK	135	138	25.54	25.62	25.46	26.5
100	PI/2 BPSK	270	0	25.65	25.69	25.47	
100	QPSK	1	1	26.29	26.32	26.18	27.0
100	QPSK	1	137	26.14	26.18	25.99	
100	QPSK	1	271	25.94	25.97	25.82	
100	QPSK	135	0	24.81	24.91	24.71	26.0
100	QPSK	135	69	26.28	26.33	26.19	27.0
100	QPSK	135	138	25.06	25.11	24.89	26.0
100	QPSK	270	0	25.09	25.16	24.92	
100	16QAM	1	1	25.09	25.16	25.01	26.0
100	64QAM	1	1	23.78	23.81	23.65	24.5
100	256QAM	1	1	22.08	22.18	22.00	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	26.04	26.13	25.95	27.0
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	26.01	26.13	25.96	27.0
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	26.04	26.11	25.94	27.0
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	



50	PI/2 BPSK	1	1	26.02	26.09	25.92	27.0
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	26.03	26.12	25.97	27.0
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	26.04	26.09	25.94	27.0
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	26.05	26.10	25.94	27.0
Channel				500700	518598	536496	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	26.02	26.11	25.97	27.0
Channel				500202	518598	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	26.03	26.08	25.92	27.0

**<FR1 n48\_Ant 6\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	23.72	23.83	23.73	24.0
40	PI/2 BPSK	1	53	23.74	23.85	23.79	
40	PI/2 BPSK	1	104	23.79	23.82	23.75	
40	PI/2 BPSK	50	0	23.37	23.49	23.40	23.5
40	PI/2 BPSK	50	28	23.76	23.81	23.75	24.0
40	PI/2 BPSK	50	56	23.37	23.48	23.41	23.5
40	PI/2 BPSK	100	0	23.36	23.47	23.41	
40	QPSK	1	1	23.83	23.86	23.81	24.0
40	QPSK	1	53	23.71	23.82	23.67	
40	QPSK	1	104	23.69	23.81	23.72	
40	QPSK	50	0	22.89	22.99	22.87	23.0
40	QPSK	50	28	23.69	23.80	23.66	24.0
40	QPSK	50	56	22.90	22.94	22.89	23.0
40	QPSK	100	0	22.86	22.95	22.84	
40	16QAM	1	1	22.70	22.81	22.76	23.0
40	64QAM	1	1	21.25	21.32	21.27	21.5
40	256QAM	1	1	19.35	19.48	19.42	19.5
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	23.70	23.75	23.71	24.0
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	23.67	23.78	23.66	24.0
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	23.67	23.81	23.71	24.0



<FR1 n48\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	17.0
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	16.57	16.71	16.58	17.0
40	PI/2 BPSK	1	53	16.60	16.71	16.64	
40	PI/2 BPSK	1	104	16.61	16.61	16.66	
40	PI/2 BPSK	50	0	16.67	16.70	16.59	17.0
40	PI/2 BPSK	50	28	16.61	16.70	16.64	17.0
40	PI/2 BPSK	50	56	16.60	16.68	16.66	17.0
40	PI/2 BPSK	100	0	16.58	16.65	16.64	
40	QPSK	1	1	16.68	16.72	16.69	17.0
40	QPSK	1	53	16.63	16.71	16.68	
40	QPSK	1	104	16.60	16.66	16.58	
40	QPSK	50	0	16.67	16.63	16.66	17.0
40	QPSK	50	28	16.62	16.64	16.58	17.0
40	QPSK	50	56	16.63	16.70	16.63	17.0
40	QPSK	100	0	16.65	16.63	16.63	
40	16QAM	1	1	16.64	16.66	16.67	17.0
40	64QAM	1	1	16.58	16.68	16.63	17.0
40	256QAM	1	1	16.67	16.69	16.61	17.0
Channel				637334	641666	646000	17.0
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	16.50	16.66	16.52	17.0
Channel				637168	641666	646166	17.0
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	16.54	16.64	16.50	17.0
Channel				637000	641666	646332	17.0
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	16.51	16.67	16.55	17.0



<FR1 n48\_Ant 8\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	Tune-up limit (dBm)
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	22.01	22.18	21.97	22.5
40	PI/2 BPSK	1	53	22.14	22.21	21.98	
40	PI/2 BPSK	1	104	22.04	22.21	22.03	
40	PI/2 BPSK	50	0	21.87	21.97	21.81	22.0
40	PI/2 BPSK	50	28	22.09	22.21	22.04	22.5
40	PI/2 BPSK	50	56	21.81	21.98	21.79	22.0
40	PI/2 BPSK	100	0	21.85	21.97	21.83	
40	QPSK	1	1	22.18	22.25	22.11	22.5
40	QPSK	1	53	21.99	22.15	21.91	
40	QPSK	1	104	21.97	22.14	21.90	
40	QPSK	50	0	21.34	21.49	21.29	21.5
40	QPSK	50	28	22.13	22.23	22.02	22.5
40	QPSK	50	56	21.34	21.46	21.28	21.5
40	QPSK	100	0	21.37	21.45	21.22	
40	16QAM	1	1	20.97	21.11	20.91	21.5
40	64QAM	1	1	19.59	19.66	19.50	20.0
40	256QAM	1	1	17.80	17.96	17.74	18.0
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.90	22.13	21.87	22.5
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.92	22.12	21.85	22.5
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.94	22.07	21.85	22.5



<FR1 n48\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				638000	641666	645332	
Frequency (MHz)				3570	3624.99	3679.98	
40	PI/2 BPSK	1	1	21.59	21.66	21.52	22.0
40	PI/2 BPSK	1	53	21.62	21.71	21.60	
40	PI/2 BPSK	1	104	21.66	21.75	21.70	
40	PI/2 BPSK	50	0	21.44	21.48	21.43	21.5
40	PI/2 BPSK	50	28	21.74	21.75	21.68	22.0
40	PI/2 BPSK	50	56	21.39	21.44	21.33	21.5
40	PI/2 BPSK	100	0	21.36	21.40	21.30	
40	QPSK	1	1	21.75	21.76	21.71	22.0
40	QPSK	1	53	21.60	21.69	21.60	
40	QPSK	1	104	21.61	21.66	21.54	
40	QPSK	50	0	20.96	20.97	20.89	21.0
40	QPSK	50	28	21.65	21.68	21.56	22.0
40	QPSK	50	56	20.91	20.99	20.89	21.0
40	QPSK	100	0	20.91	20.98	20.85	
40	16QAM	1	1	20.53	20.63	20.54	21.0
40	64QAM	1	1	19.21	19.27	19.21	19.5
40	256QAM	1	1	17.40	17.43	17.37	17.5
Channel				637334	641666	646000	Tune-up limit (dBm)
Frequency (MHz)				3560.01	3624.99	3690	
20	PI/2 BPSK	1	1	21.52	21.60	21.43	22.0
Channel				637168	641666	646166	Tune-up limit (dBm)
Frequency (MHz)				3557.52	3624.99	3692.49	
15	PI/2 BPSK	1	1	21.54	21.61	21.49	22.0
Channel				637000	641666	646332	Tune-up limit (dBm)
Frequency (MHz)				3555	3624.99	3694.98	
10	PI/2 BPSK	1	1	21.54	21.56	21.49	22.0



<FR1 n77\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.70	22.84	22.69	23.5
100	PI/2 BPSK	1	137	22.87	23.02	22.82	
100	PI/2 BPSK	1	271	22.82	22.94	22.75	
100	PI/2 BPSK	135	0	22.79	22.98	22.83	23.0
100	PI/2 BPSK	135	69	22.90	23.06	22.94	23.5
100	PI/2 BPSK	135	138	22.78	22.95	22.76	23.0
100	PI/2 BPSK	270	0	22.81	22.99	22.86	
100	QPSK	1	1	23.00	23.12	23.02	23.5
100	QPSK	1	137	22.85	23.01	22.83	
100	QPSK	1	271	22.74	22.91	22.75	
100	QPSK	135	0	22.30	22.49	22.30	22.5
100	QPSK	135	69	22.91	23.08	22.95	23.5
100	QPSK	135	138	22.29	22.48	22.31	22.5
100	QPSK	270	0	22.36	22.49	22.36	
100	16QAM	1	1	22.26	22.46	22.31	22.5
100	64QAM	1	1	20.78	20.96	20.81	21.0
100	256QAM	1	1	18.73	18.91	18.77	19.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.58	22.74	22.59	23.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.58	22.77	22.59	23.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.64	22.79	22.57	23.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.63	22.77	22.61	23.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.61	22.77	22.58	23.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.60	22.73	22.56	23.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.62	22.75	22.64	23.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.60	22.75	22.57	23.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.62	22.73	22.60	23.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	22.62	22.78	22.60	23.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.57	22.74	22.58	23.5



<FR1 n77\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	16.34	16.48	16.32	17.0
100	PI/2 BPSK	1	137	16.42	16.49	16.28	
100	PI/2 BPSK	1	271	16.38	16.51	16.37	
100	PI/2 BPSK	135	0	16.34	16.56	16.29	17.0
100	PI/2 BPSK	135	69	16.39	16.57	16.35	17.0
100	PI/2 BPSK	135	138	16.33	16.48	16.29	17.0
100	PI/2 BPSK	270	0	16.37	16.53	16.37	
100	QPSK	1	1	16.43	16.59	16.38	17.0
100	QPSK	1	137	16.33	16.49	16.27	
100	QPSK	1	271	16.36	16.57	16.32	
100	QPSK	135	0	16.39	16.52	16.35	17.0
100	QPSK	135	69	16.33	16.57	16.32	17.0
100	QPSK	135	138	16.41	16.58	16.34	17.0
100	QPSK	270	0	16.38	16.58	16.37	
100	16QAM	1	1	16.36	16.52	16.32	17.0
100	64QAM	1	1	16.38	16.51	16.27	17.0
100	256QAM	1	1	16.42	16.58	16.37	17.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	16.31	16.42	16.23	17.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	16.25	16.43	16.26	17.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	16.26	16.39	16.28	17.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	16.26	16.43	16.20	17.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	16.23	16.43	16.28	17.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	16.31	16.43	16.28	17.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	16.23	16.45	16.28	17.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	16.31	16.38	16.28	17.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	16.26	16.42	16.28	17.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	16.23	16.37	16.21	17.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	16.25	16.38	16.25	17.0





<FR1 n77\_Ant 8\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	20.94	21.11	21.00	22.5
100	PI/2 BPSK	1	137	21.03	21.21	21.16	
100	PI/2 BPSK	1	271	21.01	21.15	21.06	
100	PI/2 BPSK	135	0	21.02	21.21	21.08	22.0
100	PI/2 BPSK	135	69	20.98	21.17	21.12	22.5
100	PI/2 BPSK	135	138	21.07	21.22	21.08	22.0
100	PI/2 BPSK	270	0	21.06	21.23	21.09	
100	QPSK	1	1	21.11	21.25	21.20	22.5
100	QPSK	1	137	21.01	21.21	21.09	
100	QPSK	1	271	20.88	21.11	21.05	
100	QPSK	135	0	20.95	21.14	20.99	21.5
100	QPSK	135	69	21.10	21.24	21.13	22.5
100	QPSK	135	138	21.06	21.23	21.14	21.5
100	QPSK	270	0	20.97	21.20	21.07	
100	16QAM	1	1	20.87	21.11	21.05	21.5
100	64QAM	1	1	19.76	19.96	19.89	20.0
100	256QAM	1	1	17.75	17.93	17.84	18.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	20.91	21.06	20.96	22.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	20.91	21.09	20.97	22.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	20.92	21.04	20.95	22.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	20.86	21.05	20.97	22.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	20.89	21.06	20.98	22.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	20.92	21.05	20.96	22.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	20.86	21.09	20.95	22.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	20.92	21.06	20.95	22.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	20.90	21.06	20.98	22.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	20.86	21.03	20.92	22.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	20.91	21.08	20.92	22.5



<FR1 n77\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.50	19.59	19.60	21.0
100	PI/2 BPSK	1	137	19.47	19.56	19.60	
100	PI/2 BPSK	1	271	19.44	19.63	19.52	
100	PI/2 BPSK	135	0	19.47	19.63	19.59	21.0
100	PI/2 BPSK	135	69	19.47	19.56	19.58	21.0
100	PI/2 BPSK	135	138	19.48	19.60	19.52	21.0
100	PI/2 BPSK	270	0	19.49	19.55	19.56	
100	QPSK	1	1	19.53	19.66	19.62	21.0
100	QPSK	1	137	19.50	19.65	19.59	
100	QPSK	1	271	19.52	19.62	19.57	
100	QPSK	135	0	19.45	19.60	19.51	21.0
100	QPSK	135	69	19.48	19.63	19.57	21.0
100	QPSK	135	138	19.49	19.65	19.56	21.0
100	QPSK	270	0	19.43	19.57	19.59	
100	16QAM	1	1	19.51	19.63	19.60	21.0
100	64QAM	1	1	17.94	18.06	18.02	19.5
100	256QAM	1	1	15.95	16.12	16.02	17.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.44	19.53	19.57	21.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.40	19.50	19.54	21.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.45	19.54	19.55	21.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.46	19.54	19.54	21.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.46	19.49	19.53	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.41	19.50	19.53	21.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.42	19.53	19.56	21.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.40	19.55	19.53	21.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.44	19.51	19.53	21.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.46	19.54	19.52	21.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	19.45	19.54	19.56	21.0



<FR1 n77\_HPUE\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.41	25.61	25.45	26.5
100	PI/2 BPSK	1	137	25.62	25.81	25.57	
100	PI/2 BPSK	1	271	25.55	25.72	25.49	
100	PI/2 BPSK	135	0	25.11	25.28	25.10	26.0
100	PI/2 BPSK	135	69	25.61	25.81	25.65	26.5
100	PI/2 BPSK	135	138	25.12	25.26	25.09	26.0
100	PI/2 BPSK	270	0	25.14	25.31	25.10	
100	QPSK	1	1	25.73	25.85	25.71	26.5
100	QPSK	1	137	25.57	25.71	25.52	
100	QPSK	1	271	25.41	25.56	25.38	
100	QPSK	135	0	24.62	24.79	24.65	25.5
100	QPSK	135	69	25.31	25.51	25.36	26.5
100	QPSK	135	138	24.42	24.61	24.47	25.5
100	QPSK	270	0	24.60	24.72	24.53	
100	16QAM	1	1	24.60	24.82	24.64	25.5
100	64QAM	1	1	22.97	23.13	22.97	24.0
100	256QAM	1	1	21.60	21.78	21.63	22.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	25.35	25.56	25.34	26.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	25.38	25.51	25.35	26.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	25.35	25.53	25.38	26.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	25.38	25.54	25.35	26.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	25.31	25.58	25.36	26.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.36	25.58	25.39	26.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	25.38	25.59	25.41	26.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	25.30	25.55	25.41	26.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	25.36	25.55	25.35	26.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	25.39	25.56	25.36	26.5
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	



10	PI/2 BPSK	1	1	25.35	25.49	25.37	26.5
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<FR1 n77\_HPUE\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	19.29	19.37	19.19	20.0
100	PI/2 BPSK	1	137	19.34	19.33	19.25	
100	PI/2 BPSK	1	271	19.24	19.34	19.27	
100	PI/2 BPSK	135	0	19.25	19.42	19.19	20.0
100	PI/2 BPSK	135	69	19.34	19.40	19.26	20.0
100	PI/2 BPSK	135	138	19.27	19.38	19.28	20.0
100	PI/2 BPSK	270	0	19.31	19.38	19.18	
100	QPSK	1	1	19.35	19.44	19.29	20.0
100	QPSK	1	137	19.34	19.39	19.18	
100	QPSK	1	271	19.33	19.40	19.25	
100	QPSK	135	0	19.31	19.41	19.18	20.0
100	QPSK	135	69	19.27	19.43	19.22	20.0
100	QPSK	135	138	19.33	19.37	19.20	20.0
100	QPSK	270	0	19.31	19.38	19.26	
100	16QAM	1	1	19.28	19.37	19.27	20.0
100	64QAM	1	1	19.29	19.33	19.24	20.0
100	256QAM	1	1	19.33	19.42	19.25	20.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	19.22	19.31	19.13	20.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	19.23	19.33	19.15	20.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	19.24	19.35	19.12	20.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	19.23	19.33	19.16	20.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	19.25	19.31	19.15	20.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	19.21	19.32	19.12	20.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	19.24	19.33	19.17	20.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	19.23	19.32	19.15	20.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	19.23	19.31	19.14	20.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	19.26	19.32	19.12	20.0
Channel				647000	656000	665000	Tune-up limit



Frequency (MHz)				3705	3840	3975	(dBm)
10	PI/2 BPSK	1	1	19.21	19.32	19.12	20.0

<FR1 n77\_HPUE\_Ant 8\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.55	23.71	23.57	
100	PI/2 BPSK	1	137	23.69	23.81	23.70	25.5
100	PI/2 BPSK	1	271	23.66	23.80	23.70	25.0
100	PI/2 BPSK	135	0	23.39	23.49	23.33	
100	PI/2 BPSK	135	69	23.69	23.81	23.70	25.5
100	PI/2 BPSK	135	138	23.25	23.39	23.28	25.0
100	PI/2 BPSK	270	0	23.07	23.27	23.11	
100	QPSK	1	1	23.96	24.06	24.00	25.5
100	QPSK	1	137	23.85	24.00	23.88	
100	QPSK	1	271	23.71	23.87	23.81	
100	QPSK	135	0	22.68	22.88	22.73	24.5
100	QPSK	135	69	23.86	24.04	23.96	25.5
100	QPSK	135	138	22.65	22.85	22.71	24.5
100	QPSK	270	0	22.67	22.79	22.67	
100	16QAM	1	1	22.81	22.91	22.81	24.5
100	64QAM	1	1	21.33	21.47	21.41	23.0
100	256QAM	1	1	19.47	19.57	19.41	21.0
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	23.54	23.70	23.56	25.5
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	23.50	23.68	23.55	25.5
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	23.50	23.68	23.54	25.5
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	23.54	23.67	23.56	25.5
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	23.52	23.68	23.56	25.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	23.54	23.67	23.54	25.5
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	23.54	23.69	23.52	25.5
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	23.50	23.68	23.54	25.5
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	23.53	23.69	23.54	25.5
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	
15	PI/2 BPSK	1	1	23.51	23.68	23.52	25.5



Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	23.51	23.65	23.56	25.5

<FR1 n77\_HPUE\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	22.30	22.43	22.38	24.0
100	PI/2 BPSK	1	137	22.28	22.49	22.35	
100	PI/2 BPSK	1	271	22.21	22.47	22.43	
100	PI/2 BPSK	135	0	22.30	22.45	22.39	24.0
100	PI/2 BPSK	135	69	22.24	22.44	22.38	24.0
100	PI/2 BPSK	135	138	22.23	22.49	22.43	24.0
100	PI/2 BPSK	270	0	22.27	22.49	22.40	
100	QPSK	1	1	22.32	22.51	22.45	24.0
100	QPSK	1	137	22.29	22.46	22.43	
100	QPSK	1	271	22.30	22.43	22.42	
100	QPSK	135	0	22.23	22.49	22.39	24.0
100	QPSK	135	69	22.28	22.40	22.37	24.0
100	QPSK	135	138	22.31	22.44	22.44	24.0
100	QPSK	270	0	22.21	22.41	22.37	
100	16QAM	1	1	22.21	22.43	22.43	24.0
100	64QAM	1	1	20.80	20.99	20.94	22.5
100	256QAM	1	1	18.75	18.92	18.84	20.5
Channel				649668	656000	662332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3840	3934.98	
90	PI/2 BPSK	1	1	22.22	22.36	22.32	24.0
Channel				649334	656000	662666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3840	3939.99	
80	PI/2 BPSK	1	1	22.26	22.33	22.35	24.0
Channel				649000	656000	663000	Tune-up limit (dBm)
Frequency (MHz)				3735	3840	3945	
70	PI/2 BPSK	1	1	22.20	22.36	22.31	24.0
Channel				648668	656000	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3840	3949.98	
60	PI/2 BPSK	1	1	22.22	22.32	22.32	24.0
Channel				648334	656000	663666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3840	3954.99	
50	PI/2 BPSK	1	1	22.12	22.29	22.24	24.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	22.23	22.40	22.32	24.0
Channel				647668	656000	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3840.00	3964.98	
30	PI/2 BPSK	1	1	22.19	22.39	22.27	24.0
Channel				647500	656000	664500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3840.00	3967.50	
25	PI/2 BPSK	1	1	22.25	22.37	22.30	24.0
Channel				647334	656000	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3969.99	
20	PI/2 BPSK	1	1	22.21	22.35	22.33	24.0
Channel				647168	656000	664832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3840	3972.48	



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15	PI/2 BPSK	1	1	22.22	22.32	22.27	24.0
Channel				647000	656000	665000	Tune-up limit (dBm)
Frequency (MHz)				3705	3840	3975	
10	PI/2 BPSK	1	1	22.26	22.36	22.35	24.0



<FR1 n77\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		23.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.98		23.0
100	PI/2 BPSK	1	137		23.02		
100	PI/2 BPSK	1	271		23.01		
100	PI/2 BPSK	135	0		22.98		23.0
100	PI/2 BPSK	135	69		22.97		
100	PI/2 BPSK	135	138		22.94		
100	PI/2 BPSK	270	0		22.98		23.5
100	QPSK	1	1		23.17		
100	QPSK	1	137		23.07		
100	QPSK	1	271		22.98		22.5
100	QPSK	135	0		22.46		
100	QPSK	135	69		23.06		
100	QPSK	135	138		22.46		22.5
100	QPSK	270	0		22.42		
100	16QAM	1	1		22.43		
100	64QAM	1	1		20.96		21.0
100	256QAM	1	1		18.93		19.0
Channel				633000	633332	633666	23.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.88	22.95	22.85	23.5
Channel				632668	633332	634000	
Frequency (MHz)				3490.02	3499.98	3510	23.5
80	PI/2 BPSK	1	1	22.82	22.87	22.78	
Channel				632334	633332	634332	23.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.78	22.85	22.82	23.5
Channel				632000	633332	634666	
Frequency (MHz)				3480	3499.98	3519.99	23.5
60	PI/2 BPSK	1	1	22.80	22.86	22.77	
Channel				631668	633332	635000	23.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.80	22.89	22.80	23.5
Channel				631334	633332	635332	
Frequency (MHz)				3470.01	3499.98	3529.98	23.5
40	PI/2 BPSK	1	1	22.80	22.90	22.75	
Channel				631000	633332	635666	23.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.82	22.86	22.77	23.5
Channel				630834	633332	635832	
Frequency (MHz)				3462.51	3499.98	3537.48	23.5
25	PI/2 BPSK	1	1	22.79	22.85	22.75	
Channel				630668	633332	636000	23.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.78	22.86	22.82	23.5
Channel				630500	633332	636166	
Frequency (MHz)				3457.5	3499.98	3542.49	23.5
15	PI/2 BPSK	1	1	22.81	22.89	22.80	
Channel				630334	633332	636332	23.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.85	22.90	22.82	23.5





<FR1 n77\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		17.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.63		17.0
100	PI/2 BPSK	1	137		16.62		
100	PI/2 BPSK	1	271		16.70		
100	PI/2 BPSK	135	0		16.62		17.0
100	PI/2 BPSK	135	69		16.67		17.0
100	PI/2 BPSK	135	138		16.66		17.0
100	PI/2 BPSK	270	0		16.66		
100	QPSK	1	1		16.73		17.0
100	QPSK	1	137		16.68		
100	QPSK	1	271		16.62		
100	QPSK	135	0		16.62		17.0
100	QPSK	135	69		16.64		17.0
100	QPSK	135	138		16.72		17.0
100	QPSK	270	0		16.65		
100	16QAM	1	1		16.63		17.0
100	64QAM	1	1		16.67		17.0
100	256QAM	1	1		16.70		17.0
Channel				633000	633332	633666	17.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.52	16.60	16.59	17.0
Channel				632668	633332	634000	17.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.42	16.55	16.54	17.0
Channel				632334	633332	634332	17.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.45	16.56	16.55	17.0
Channel				632000	633332	634666	17.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.43	16.50	16.50	17.0
Channel				631668	633332	635000	17.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.46	16.50	16.50	17.0
Channel				631334	633332	635332	17.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.43	16.57	16.56	17.0
Channel				631000	633332	635666	17.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	16.46	16.50	16.55	17.0
Channel				630834	633332	635832	17.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.48	16.55	16.49	17.0
Channel				630668	633332	636000	17.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.48	16.57	16.55	17.0
Channel				630500	633332	636166	17.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.47	16.51	16.53	17.0
Channel				630334	633332	636332	17.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.49	16.56	16.56	17.0



<FR1 n77\_Ant 8\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		22.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.08		22.5
100	PI/2 BPSK	1	137		21.18		
100	PI/2 BPSK	1	271		21.06		
100	PI/2 BPSK	135	0		21.19		22.0
100	PI/2 BPSK	135	69		21.24		22.5
100	PI/2 BPSK	135	138		21.18		22.0
100	PI/2 BPSK	270	0		21.19		
100	QPSK	1	1		21.25		22.5
100	QPSK	1	137		21.13		
100	QPSK	1	271		21.10		
100	QPSK	135	0		21.09		21.5
100	QPSK	135	69		21.24		22.5
100	QPSK	135	138		21.23		21.5
100	QPSK	270	0		21.18		
100	16QAM	1	1		20.80		21.5
100	64QAM	1	1		19.86		20.0
100	256QAM	1	1		17.95		18.0
Channel				633000	633332	633666	22.5
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.02	21.05	20.99	22.5
Channel				632668	633332	634000	22.5
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	20.93	20.98	20.97	22.5
Channel				632334	633332	634332	22.5
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	20.97	20.95	20.91	22.5
Channel				632000	633332	634666	22.5
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	20.97	21.02	20.96	22.5
Channel				631668	633332	635000	22.5
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	20.94	20.98	20.91	22.5
Channel				631334	633332	635332	22.5
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	20.99	21.01	20.90	22.5
Channel				631000	633332	635666	22.5
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	20.96	20.96	20.94	22.5
Channel				630834	633332	635832	22.5
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	20.94	20.99	20.89	22.5
Channel				630668	633332	636000	22.5
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	20.95	20.96	20.93	22.5
Channel				630500	633332	636166	22.5
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	20.99	20.96	20.95	22.5
Channel				630334	633332	636332	22.5
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	20.97	21.01	20.90	22.5



<FR1 n77\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		21.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.86		21.0
100	PI/2 BPSK	1	137		19.92		
100	PI/2 BPSK	1	271		19.94		
100	PI/2 BPSK	135	0		19.93		21.0
100	PI/2 BPSK	135	69		19.95		21.0
100	PI/2 BPSK	135	138		19.93		21.0
100	PI/2 BPSK	270	0		19.86		
100	QPSK	1	1		19.97		21.0
100	QPSK	1	137		19.95		
100	QPSK	1	271		19.96		
100	QPSK	135	0		19.96		21.0
100	QPSK	135	69		19.91		21.0
100	QPSK	135	138		19.89		21.0
100	QPSK	270	0		19.94		
100	16QAM	1	1		19.90		21.0
100	64QAM	1	1		18.42		19.5
100	256QAM	1	1		16.42		17.5
Channel				633000	633332	633666	21.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.71	19.80	19.75	21.0
Channel				632668	633332	634000	21.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.63	19.74	19.64	21.0
Channel				632334	633332	634332	21.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.59	19.70	19.69	21.0
Channel				632000	633332	634666	21.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.64	19.72	19.63	21.0
Channel				631668	633332	635000	21.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.60	19.72	19.65	21.0
Channel				631334	633332	635332	21.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.62	19.71	19.69	21.0
Channel				631000	633332	635666	21.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.60	19.70	19.67	21.0
Channel				630834	633332	635832	21.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.65	19.73	19.66	21.0
Channel				630668	633332	636000	21.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.59	19.69	19.64	21.0
Channel				630500	633332	636166	21.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.62	19.69	19.69	21.0
Channel				630334	633332	636332	21.0
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.66	19.75	19.67	21.0



<FR1 n77\_HPUE\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		26.5
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		25.61		26.0
100	PI/2 BPSK	1	137		25.72		
100	PI/2 BPSK	1	271		25.56		
100	PI/2 BPSK	135	0		25.06		26.5
100	PI/2 BPSK	135	69		25.71		
100	PI/2 BPSK	135	138		25.11		26.0
100	PI/2 BPSK	270	0		25.18		
100	QPSK	1	1		25.73		26.5
100	QPSK	1	137		25.57		
100	QPSK	1	271		25.71		
100	QPSK	135	0		24.61		25.5
100	QPSK	135	69		25.61		
100	QPSK	135	138		24.65		25.5
100	QPSK	270	0		24.71		
100	16QAM	1	1		24.62		25.5
100	64QAM	1	1		23.11		
100	256QAM	1	1		21.71		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	25.45	25.55	25.49	26.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	25.39	25.47	25.40	26.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	25.39	25.47	25.44	26.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	25.41	25.47	25.41	26.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	25.36	25.50	25.43	26.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	25.36	25.47	25.42	26.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	25.37	25.51	25.44	26.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	25.39	25.50	25.40	26.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	25.41	25.50	25.41	26.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	25.41	25.50	25.42	26.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	



10	PI/2 BPSK	1	1	25.38	25.50	25.45	26.5
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<FR1 n77\_HPUE\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		20.0
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.59		20.0
100	PI/2 BPSK	1	137		19.59		
100	PI/2 BPSK	1	271		19.58		
100	PI/2 BPSK	135	0		19.58		20.0
100	PI/2 BPSK	135	69		19.61		20.0
100	PI/2 BPSK	135	138		19.60		20.0
100	PI/2 BPSK	270	0		19.61		
100	QPSK	1	1		19.64		20.0
100	QPSK	1	137		19.59		
100	QPSK	1	271		19.56		
100	QPSK	135	0		19.55		20.0
100	QPSK	135	69		19.57		20.0
100	QPSK	135	138		19.57		20.0
100	QPSK	270	0		19.56		
100	16QAM	1	1		19.58		20.0
100	64QAM	1	1		19.54		20.0
100	256QAM	1	1		19.57		20.0
Channel				633000	633332	633666	20.0
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.48	19.51	19.55	20.0
Channel				632668	633332	634000	20.0
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.40	19.49	19.47	20.0
Channel				632334	633332	634332	20.0
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.46	19.48	19.51	20.0
Channel				632000	633332	634666	20.0
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.41	19.43	19.47	20.0
Channel				631668	633332	635000	20.0
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.44	19.48	19.53	20.0
Channel				631334	633332	635332	20.0
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.45	19.47	19.53	20.0
Channel				631000	633332	635666	20.0
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.46	19.46	19.49	20.0
Channel				630834	633332	635832	20.0
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.43	19.48	19.50	20.0
Channel				630668	633332	636000	20.0
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.40	19.46	19.47	20.0
Channel				630500	633332	636166	20.0
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.41	19.47	19.50	20.0
Channel				630334	633332	636332	Tune-up limit



Frequency (MHz)				3455.01	3499.98	3544.98	(dBm)
10	PI/2 BPSK	1	1	19.42	19.49	19.47	20.0

**<FR1 n77\_HPUE\_Ant 8\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		23.98		25.5
100	PI/2 BPSK	1	137		24.07		
100	PI/2 BPSK	1	271		23.99		
100	PI/2 BPSK	135	0		23.40		25.0
100	PI/2 BPSK	135	69		24.10		25.5
100	PI/2 BPSK	135	138		24.06		25.0
100	PI/2 BPSK	270	0		24.04		
100	QPSK	1	1		24.14		25.5
100	QPSK	1	137		23.82		
100	QPSK	1	271		23.91		
100	QPSK	135	0		23.11		24.5
100	QPSK	135	69		24.12		25.5
100	QPSK	135	138		24.06		24.5
100	QPSK	270	0		24.04		
100	16QAM	1	1		23.41		24.5
100	64QAM	1	1		21.50		23.0
100	256QAM	1	1		19.58		21.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.91	23.95	23.93	25.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.84	23.92	23.88	25.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.84	23.87	23.87	25.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.84	23.92	23.85	25.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.88	23.91	23.88	25.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.82	23.87	23.87	25.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	23.84	23.90	23.84	25.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.86	23.91	23.89	25.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.86	23.87	23.89	25.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.83	23.90	23.90	25.5



Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.87	23.90	23.88	25.5

<FR1 n77\_HPUE\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		22.73		24.0
100	PI/2 BPSK	1	137		22.72		
100	PI/2 BPSK	1	271		22.69		
100	PI/2 BPSK	135	0		22.72		24.0
100	PI/2 BPSK	135	69		22.77		24.0
100	PI/2 BPSK	135	138		22.75		24.0
100	PI/2 BPSK	270	0		22.68		
100	QPSK	1	1		22.79		24.0
100	QPSK	1	137		22.68		
100	QPSK	1	271		22.72		
100	QPSK	135	0		22.78		24.0
100	QPSK	135	69		22.69		24.0
100	QPSK	135	138		22.70		24.0
100	QPSK	270	0		22.76		
100	16QAM	1	1		22.74		24.0
100	64QAM	1	1		21.19		22.5
100	256QAM	1	1		19.18		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	22.59	22.61	22.65	24.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	22.53	22.54	22.58	24.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	22.51	22.57	22.58	24.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	22.56	22.56	22.58	24.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	22.53	22.56	22.59	24.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	22.52	22.52	22.58	24.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	22.57	22.54	22.62	24.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	22.56	22.54	22.56	24.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	22.55	22.53	22.58	24.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	



15	PI/2 BPSK	1	1	22.52	22.52	22.58	24.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	22.53	22.57	22.59	24.0

<FR1 n78\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.07		24.5
100	PI/2 BPSK	1	137		24.17		
100	PI/2 BPSK	1	271		24.16		
100	PI/2 BPSK	135	0		23.96		24.0
100	PI/2 BPSK	135	69		24.21		24.5
100	PI/2 BPSK	135	138		23.94		24.0
100	PI/2 BPSK	270	0		23.90		
100	QPSK	1	1		24.22		24.5
100	QPSK	1	137		24.14		
100	QPSK	1	271		24.13		
100	QPSK	135	0		23.46		23.5
100	QPSK	135	69		24.21		24.5
100	QPSK	135	138		23.40		23.5
100	QPSK	270	0		23.42		
100	16QAM	1	1		23.46		23.5
100	64QAM	1	1		21.99		22.0
100	256QAM	1	1		19.86		20.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	23.95	24.01	23.99	24.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	23.87	23.94	23.93	24.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.85	23.97	23.94	24.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	23.88	23.98	23.94	24.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	23.90	23.92	23.92	24.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.90	23.94	23.94	24.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	23.91	23.94	23.95	24.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	23.88	23.98	23.91	24.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	23.86	23.97	23.92	24.5
Channel				647168	650000	652832	Tune-up limit





Frequency (MHz)				3707.52	3750	3792.48	(dBm)
15	PI/2 BPSK	1	1	23.85	23.92	23.92	24.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	23.91	23.96	23.95	24.5

**<FR1 n78\_Ant 7\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		16.95		17.5
100	PI/2 BPSK	1	137		16.91		
100	PI/2 BPSK	1	271		17.01		
100	PI/2 BPSK	135	0		17.00		17.5
100	PI/2 BPSK	135	69		16.92		17.5
100	PI/2 BPSK	135	138		16.96		17.5
100	PI/2 BPSK	270	0		16.92		
100	QPSK	1	1		17.02		17.5
100	QPSK	1	137		17.01		
100	QPSK	1	271		16.99		
100	QPSK	135	0		16.92		17.5
100	QPSK	135	69		17.00		17.5
100	QPSK	135	138		17.00		17.5
100	QPSK	270	0		16.91		
100	16QAM	1	1		17.00		17.5
100	64QAM	1	1		16.98		17.5
100	256QAM	1	1		16.94		17.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	16.88	16.90	16.91	17.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	16.76	16.78	16.80	17.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	16.82	16.78	16.80	17.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	16.77	16.86	16.83	17.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	16.83	16.81	16.81	17.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	16.76	16.86	16.86	17.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	16.84	16.82	16.86	17.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	16.83	16.86	16.84	17.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	16.84	16.86	16.84	17.5



Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	16.79	16.85	16.81	17.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	16.78	16.80	16.85	17.5

**<FR1 n78\_Ant 8\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		22.11		23.5
100	PI/2 BPSK	1	137		22.13		
100	PI/2 BPSK	1	271		22.21		
100	PI/2 BPSK	135	0		22.21		23.0
100	PI/2 BPSK	135	69		22.31		23.5
100	PI/2 BPSK	135	138		22.24		23.0
100	PI/2 BPSK	270	0		22.34		
100	QPSK	1	1		22.35		23.5
100	QPSK	1	137		22.21		
100	QPSK	1	271		22.23		
100	QPSK	135	0		22.21		22.5
100	QPSK	135	69		22.34		23.5
100	QPSK	135	138		22.19		22.5
100	QPSK	270	0		22.33		
100	16QAM	1	1		21.83		22.5
100	64QAM	1	1		20.94		21.0
100	256QAM	1	1		18.93		19.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	22.02	22.09	22.06	23.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.95	22.03	21.97	23.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.96	22.01	22.00	23.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	22.00	22.07	21.97	23.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.98	22.06	21.97	23.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.95	22.07	21.97	23.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	22.00	22.06	21.98	23.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.93	22.05	22.00	23.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	



20	PI/2 BPSK	1	1	21.95	22.07	21.98	23.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.97	22.04	21.98	23.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.96	22.01	21.97	23.5

**<FR1 n78\_Ant 9\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		21.62		23.0
100	PI/2 BPSK	1	137		21.65		
100	PI/2 BPSK	1	271		21.63		
100	PI/2 BPSK	135	0		21.68		22.5
100	PI/2 BPSK	135	69		21.85		23.0
100	PI/2 BPSK	135	138		21.61		22.5
100	PI/2 BPSK	270	0		21.63		
100	QPSK	1	1		21.88		23.0
100	QPSK	1	137		21.65		
100	QPSK	1	271		21.66		
100	QPSK	135	0		21.63		22.0
100	QPSK	135	69		21.78		23.0
100	QPSK	135	138		21.71		22.0
100	QPSK	270	0		21.65		
100	16QAM	1	1		21.33		22.0
100	64QAM	1	1		20.46		20.5
100	256QAM	1	1		18.43		18.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	21.47	21.50	21.55	23.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	21.38	21.38	21.48	23.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	21.39	21.45	21.49	23.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	21.37	21.40	21.47	23.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	21.38	21.42	21.50	23.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	21.41	21.44	21.46	23.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	21.43	21.45	21.51	23.0
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	21.43	21.39	21.51	23.0
Channel				647334	650000	652666	Tune-up limit



Frequency (MHz)				3710.01	3750	3789.99	(dBm)
20	PI/2 BPSK	1	1	21.36	21.45	21.46	23.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	21.42	21.42	21.44	23.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	21.43	21.41	21.49	23.0

**<FR1 n78\_HPUE\_Ant 6\_DSI 4\_Main PA>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		26.71		27.5
100	PI/2 BPSK	1	137		26.91		
100	PI/2 BPSK	1	271		26.93		
100	PI/2 BPSK	135	0		26.46		27.0
100	PI/2 BPSK	135	69		27.01		27.5
100	PI/2 BPSK	135	138		26.46		27.0
100	PI/2 BPSK	270	0		26.41		
100	QPSK	1	1		27.07		27.5
100	QPSK	1	137		27.00		
100	QPSK	1	271		26.91		
100	QPSK	135	0		26.26		26.5
100	QPSK	135	69		26.93		27.5
100	QPSK	135	138		25.96		26.5
100	QPSK	270	0		25.91		
100	16QAM	1	1		25.91		26.5
100	64QAM	1	1		24.26		25.0
100	256QAM	1	1		22.87		23.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	26.60	26.66	26.52	27.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	26.53	26.62	26.39	27.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	26.55	26.57	26.43	27.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	26.48	26.55	26.47	27.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	26.56	26.58	26.44	27.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	26.55	26.61	26.40	27.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	26.53	26.61	26.45	27.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	26.50	26.60	26.47	27.5



Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	26.55	26.62	26.43	27.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	26.56	26.58	26.42	27.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	26.55	26.57	26.39	27.5

<FR1 n78\_HPUE\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		19.83		20.5
100	PI/2 BPSK	1	137		19.81		
100	PI/2 BPSK	1	271		19.87		
100	PI/2 BPSK	135	0		19.83		20.5
100	PI/2 BPSK	135	69		19.85		20.5
100	PI/2 BPSK	135	138		19.82		20.5
100	PI/2 BPSK	270	0		19.80		
100	QPSK	1	1		19.91		20.5
100	QPSK	1	137		19.80		
100	QPSK	1	271		19.80		
100	QPSK	135	0		19.84		20.5
100	QPSK	135	69		19.81		20.5
100	QPSK	135	138		19.81		20.5
100	QPSK	270	0		19.81		
100	16QAM	1	1		19.82		20.5
100	64QAM	1	1		19.82		20.5
100	256QAM	1	1		19.88		20.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	19.74	19.80	19.77	20.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	19.69	19.74	19.70	20.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	19.66	19.73	19.74	20.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	19.67	19.77	19.70	20.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	19.70	19.74	19.75	20.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	19.66	19.74	19.73	20.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	19.71	19.73	19.75	20.5
Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	



25	PI/2 BPSK	1	1	19.71	19.75	19.74	20.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	19.70	19.72	19.72	20.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	19.71	19.76	19.69	20.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	19.71	19.75	19.69	20.5

<FR1 n78\_HPUE\_Ant 8\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.81		26.5
100	PI/2 BPSK	1	137		24.91		
100	PI/2 BPSK	1	271		24.83		
100	PI/2 BPSK	135	0		24.51		26.0
100	PI/2 BPSK	135	69		25.04		26.5
100	PI/2 BPSK	135	138		24.51		26.0
100	PI/2 BPSK	270	0		24.52		
100	QPSK	1	1		25.05		26.5
100	QPSK	1	137		24.91		
100	QPSK	1	271		25.00		
100	QPSK	135	0		24.91		25.5
100	QPSK	135	69		25.01		26.5
100	QPSK	135	138		23.95		25.5
100	QPSK	270	0		23.93		
100	16QAM	1	1		23.95		25.5
100	64QAM	1	1		22.38		24.0
100	256QAM	1	1		20.71		22.0
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.65	24.71	24.69	26.5
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.58	24.59	24.66	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.62	24.67	24.61	26.5
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.62	24.59	24.65	26.5
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.56	24.59	24.61	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.55	24.63	24.65	26.5
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.57	24.61	24.65	26.5
Channel				647500	650000	652500	Tune-up limit



Frequency (MHz)				3712.5	3750.00	3787.50	(dBm)
25	PI/2 BPSK	1	1	24.62	24.65	24.64	26.5
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.57	24.64	24.57	26.5
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.55	24.63	24.57	26.5
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.59	24.66	24.64	26.5

<FR1 n78\_HPUE\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					650000		Tune-up limit (dBm)
Frequency (MHz)					3750		
100	PI/2 BPSK	1	1		24.43		26.0
100	PI/2 BPSK	1	137		24.55		
100	PI/2 BPSK	1	271		24.51		
100	PI/2 BPSK	135	0		23.98		25.5
100	PI/2 BPSK	135	69		24.71		26.0
100	PI/2 BPSK	135	138		23.95		25.5
100	PI/2 BPSK	270	0		23.91		
100	QPSK	1	1		24.78		26.0
100	QPSK	1	137		24.43		
100	QPSK	1	271		24.36		
100	QPSK	135	0		23.41		25.0
100	QPSK	135	69		24.73		26.0
100	QPSK	135	138		23.48		25.0
100	QPSK	270	0		23.51		
100	16QAM	1	1		23.43		25.0
100	64QAM	1	1		21.83		23.5
100	256QAM	1	1		20.29		21.5
Channel				649668	650000	650332	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3754.98	
90	PI/2 BPSK	1	1	24.28	24.31	24.22	26.0
Channel				649334	650000	650666	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3759.99	
80	PI/2 BPSK	1	1	24.16	24.24	24.17	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.18	24.23	24.08	26.0
Channel				648668	650000	651332	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3769.98	
60	PI/2 BPSK	1	1	24.16	24.23	24.17	26.0
Channel				648334	650000	651666	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3774.99	
50	PI/2 BPSK	1	1	24.24	24.27	24.12	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.18	24.25	24.19	26.0
Channel				647668	650000	652332	Tune-up limit (dBm)
Frequency (MHz)				3715.02	3750.00	3784.98	
30	PI/2 BPSK	1	1	24.21	24.29	24.08	26.0



Channel				647500	650000	652500	Tune-up limit (dBm)
Frequency (MHz)				3712.5	3750.00	3787.50	
25	PI/2 BPSK	1	1	24.17	24.19	24.10	26.0
Channel				647334	650000	652666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3789.99	
20	PI/2 BPSK	1	1	24.19	24.17	24.08	26.0
Channel				647168	650000	652832	Tune-up limit (dBm)
Frequency (MHz)				3707.52	3750	3792.48	
15	PI/2 BPSK	1	1	24.19	24.22	24.13	26.0
Channel				647000	650000	653000	Tune-up limit (dBm)
Frequency (MHz)				3705	3750	3795	
10	PI/2 BPSK	1	1	24.16	24.21	24.16	26.0

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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)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.11		24.5
100	PI/2 BPSK	1	137		24.22		
100	PI/2 BPSK	1	271		24.26		
100	PI/2 BPSK	135	0		23.89		24.0
100	PI/2 BPSK	135	69		23.31		24.5
100	PI/2 BPSK	135	138		23.96		24.0
100	PI/2 BPSK	270	0		23.91		
100	QPSK	1	1		24.32		24.5
100	QPSK	1	137		24.21		
100	QPSK	1	271		24.23		
100	QPSK	135	0		23.46		23.5
100	QPSK	135	69		24.28		24.5
100	QPSK	135	138		23.44		23.5
100	QPSK	270	0		23.46		
100	16QAM	1	1		23.41		23.5
100	64QAM	1	1		21.96		22.0
100	256QAM	1	1		19.94		20.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	23.95	24.01	24.03	24.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	23.87	23.97	23.99	24.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	23.90	23.95	23.99	24.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	23.88	23.95	24.01	24.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	23.91	23.94	23.96	24.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	23.86	23.96	23.95	24.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	





30	PI/2 BPSK	1	1	23.91	23.97	24.01	24.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	23.86	23.97	23.95	24.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	23.87	23.97	23.96	24.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	23.91	23.95	23.98	24.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	23.93	23.96	24.00	24.5

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16.5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		16.78		17.5
100	PI/2 BPSK	1	137		16.82		
100	PI/2 BPSK	1	271		16.85		
100	PI/2 BPSK	135	0		16.75		17.5
100	PI/2 BPSK	135	69		16.84		17.5
100	PI/2 BPSK	135	138		16.77		17.5
100	PI/2 BPSK	270	0		16.78		
100	QPSK	1	1		16.86		17.5
100	QPSK	1	137		16.85		
100	QPSK	1	271		16.78		
100	QPSK	135	0		16.79		17.5
100	QPSK	135	69		16.83		17.5
100	QPSK	135	138		16.82		17.5
100	QPSK	270	0		16.83		
100	16QAM	1	1		16.79		17.5
100	64QAM	1	1		16.79		17.5
100	256QAM	1	1		16.79		17.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	16.66	16.75	16.70	17.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	16.59	16.69	16.61	17.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	16.57	16.62	16.56	17.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	16.58	16.61	16.58	17.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	16.52	16.67	16.65	17.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	16.56	16.62	16.57	17.5
Channel				631000	633332	635666	Tune-up limit



Frequency (MHz)				3465	3499.98	3534.99	(dBm)
30	PI/2 BPSK	1	1	16.54	16.62	16.63	17.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	16.55	16.69	16.63	17.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	16.55	16.69	16.63	17.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	16.59	16.61	16.58	17.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	16.58	16.63	16.64	17.5

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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)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.91		23.5
100	PI/2 BPSK	1	137		22.03		
100	PI/2 BPSK	1	271		22.17		
100	PI/2 BPSK	135	0		22.02		23.0
100	PI/2 BPSK	135	69		22.17		23.5
100	PI/2 BPSK	135	138		22.11		23.0
100	PI/2 BPSK	270	0		22.13		
100	QPSK	1	1		22.18		23.5
100	QPSK	1	137		22.01		
100	QPSK	1	271		22.11		
100	QPSK	135	0		22.03		22.5
100	QPSK	135	69		22.13		23.5
100	QPSK	135	138		22.11		22.5
100	QPSK	270	0		22.11		
100	16QAM	1	1		21.79		22.5
100	64QAM	1	1		20.96		21.0
100	256QAM	1	1		18.94		19.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.77	21.85	21.80	23.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.73	21.80	21.73	23.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.73	21.83	21.75	23.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.75	21.78	21.73	23.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.69	21.79	21.78	23.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	21.74	21.77	21.72	23.5



Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.74	21.79	21.76	23.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.70	21.78	21.73	23.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.68	21.80	21.77	23.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.72	21.83	21.74	23.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.72	21.76	21.77	23.5

<FR1 n78\_Ant 9\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		21.74		23.0
100	PI/2 BPSK	1	137		21.78		
100	PI/2 BPSK	1	271		21.78		
100	PI/2 BPSK	135	0		21.71		22.5
100	PI/2 BPSK	135	69		21.86		23.0
100	PI/2 BPSK	135	138		21.75		22.5
100	PI/2 BPSK	270	0		21.74		
100	QPSK	1	1		21.87		23.0
100	QPSK	1	137		21.75		
100	QPSK	1	271		21.75		
100	QPSK	135	0		21.75		22.0
100	QPSK	135	69		21.77		23.0
100	QPSK	135	138		21.74		22.0
100	QPSK	270	0		21.73		
100	16QAM	1	1		21.51		22.0
100	64QAM	1	1		20.46		20.5
100	256QAM	1	1		18.49		18.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	21.60	21.65	21.62	23.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	21.52	21.63	21.56	23.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	21.55	21.63	21.57	23.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	21.52	21.58	21.53	23.0
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	21.52	21.59	21.59	23.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	



40	PI/2 BPSK	1	1	21.51	21.61	21.57	23.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	21.55	21.56	21.60	23.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	21.57	21.56	21.57	23.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	21.56	21.56	21.58	23.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	21.57	21.62	21.57	23.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	21.57	21.60	21.55	23.0

<FR1 n78\_HPUE\_Ant 6\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		26.65		27.5
100	PI/2 BPSK	1	137		26.83		
100	PI/2 BPSK	1	271		26.65		
100	PI/2 BPSK	135	0		26.37		27.0
100	PI/2 BPSK	135	69		27.00		27.5
100	PI/2 BPSK	135	138		26.26		27.0
100	PI/2 BPSK	270	0		26.21		
100	QPSK	1	1		27.05		27.5
100	QPSK	1	137		27.04		
100	QPSK	1	271		26.99		
100	QPSK	135	0		26.16		26.5
100	QPSK	135	69		26.91		27.5
100	QPSK	135	138		25.91		26.5
100	QPSK	270	0		25.95		
100	16QAM	1	1		25.91		26.5
100	64QAM	1	1		24.38		25.0
100	256QAM	1	1		22.81		23.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	26.55	26.60	26.47	27.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	26.48	26.55	26.40	27.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	26.51	26.55	26.44	27.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	26.48	26.57	26.43	27.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	26.53	26.57	26.43	27.5
Channel				631334	633332	635332	Tune-up limit



Frequency (MHz)				3470.01	3499.98	3529.98	(dBm)
40	PI/2 BPSK	1	1	26.49	26.58	26.42	27.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	26.53	26.58	26.45	27.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	26.50	26.58	26.42	27.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	26.51	26.53	26.41	27.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	26.51	26.53	26.43	27.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	26.50	26.53	26.43	27.5

<FR1 n78\_HPUE\_Ant 7\_DSI 4\_Main PA>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		19.70		20.5
100	PI/2 BPSK	1	137		19.69		
100	PI/2 BPSK	1	271		19.69		
100	PI/2 BPSK	135	0		19.69		20.5
100	PI/2 BPSK	135	69		19.65		20.5
100	PI/2 BPSK	135	138		19.72		20.5
100	PI/2 BPSK	270	0		19.67		
100	QPSK	1	1		19.76		20.5
100	QPSK	1	137		19.72		
100	QPSK	1	271		19.72		
100	QPSK	135	0		19.68		20.5
100	QPSK	135	69		19.72		20.5
100	QPSK	135	138		19.65		20.5
100	QPSK	270	0		19.74		
100	16QAM	1	1		19.72		20.5
100	64QAM	1	1		19.66		20.5
100	256QAM	1	1		19.71		20.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	19.55	19.60	19.52	20.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	19.51	19.51	19.46	20.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	19.46	19.55	19.46	20.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	19.46	19.53	19.43	20.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	
50	PI/2 BPSK	1	1	19.47	19.52	19.45	20.5



Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	19.49	19.57	19.50	20.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	19.50	19.51	19.44	20.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	19.48	19.57	19.45	20.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	19.49	19.51	19.44	20.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	19.49	19.56	19.48	20.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	19.52	19.54	19.46	20.5

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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)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.81		26.5
100	PI/2 BPSK	1	137		24.83		
100	PI/2 BPSK	1	271		24.79		
100	PI/2 BPSK	135	0		24.39		26.0
100	PI/2 BPSK	135	69		24.91		26.5
100	PI/2 BPSK	135	138		24.55		26.0
100	PI/2 BPSK	270	0		24.51		
100	QPSK	1	1		24.95		26.5
100	QPSK	1	137		24.73		
100	QPSK	1	271		24.71		
100	QPSK	135	0		23.95		25.5
100	QPSK	135	69		24.93		26.5
100	QPSK	135	138		23.95		25.5
100	QPSK	270	0		23.93		
100	16QAM	1	1		23.94		25.5
100	64QAM	1	1		22.35		24.0
100	256QAM	1	1		20.61		22.0
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.61	24.77	24.70	26.5
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.59	24.70	24.58	26.5
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.56	24.71	24.61	26.5
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.53	24.71	24.63	26.5
Channel				631668	633332	635000	Tune-up limit (dBm)
Frequency (MHz)				3475.02	3499.98	3525	



50	PI/2 BPSK	1	1	24.50	24.61	24.64	26.5
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.58	24.62	24.55	26.5
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.57	24.68	24.63	26.5
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.65	24.72	24.63	26.5
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.59	24.72	24.65	26.5
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.56	24.72	24.65	26.5
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.51	24.69	24.61	26.5

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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)
Channel					633332		Tune-up limit (dBm)
Frequency (MHz)					3499.98		
100	PI/2 BPSK	1	1		24.34		26.0
100	PI/2 BPSK	1	137		24.51		
100	PI/2 BPSK	1	271		24.44		
100	PI/2 BPSK	135	0		23.84		25.5
100	PI/2 BPSK	135	69		24.61		26.0
100	PI/2 BPSK	135	138		23.95		25.5
100	PI/2 BPSK	270	0		23.96		
100	QPSK	1	1		24.77		26.0
100	QPSK	1	137		24.36		
100	QPSK	1	271		24.33		
100	QPSK	135	0		23.36		25.0
100	QPSK	135	69		24.62		26.0
100	QPSK	135	138		23.45		25.0
100	QPSK	270	0		23.43		
100	16QAM	1	1		23.51		25.0
100	64QAM	1	1		21.91		23.5
100	256QAM	1	1		20.25		21.5
Channel				633000	633332	633666	Tune-up limit (dBm)
Frequency (MHz)				3495	3499.98	3504.99	
90	PI/2 BPSK	1	1	24.21	24.30	24.28	26.0
Channel				632668	633332	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3499.98	3510	
80	PI/2 BPSK	1	1	24.16	24.22	24.21	26.0
Channel				632334	633332	634332	Tune-up limit (dBm)
Frequency (MHz)				3485.01	3499.98	3514.98	
70	PI/2 BPSK	1	1	24.17	24.28	24.21	26.0
Channel				632000	633332	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3499.98	3519.99	
60	PI/2 BPSK	1	1	24.17	24.23	24.21	26.0
Channel				631668	633332	635000	Tune-up limit



Frequency (MHz)				3475.02	3499.98	3525	(dBm)
50	PI/2 BPSK	1	1	24.19	24.24	24.24	26.0
Channel				631334	633332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3499.98	3529.98	
40	PI/2 BPSK	1	1	24.13	24.25	24.20	26.0
Channel				631000	633332	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3499.98	3534.99	
30	PI/2 BPSK	1	1	24.14	24.24	24.20	26.0
Channel				630834	633332	635832	Tune-up limit (dBm)
Frequency (MHz)				3462.51	3499.98	3537.48	
25	PI/2 BPSK	1	1	24.14	24.23	24.20	26.0
Channel				630668	633332	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3499.98	3540	
20	PI/2 BPSK	1	1	24.16	24.26	24.21	26.0
Channel				630500	633332	636166	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3499.98	3542.49	
15	PI/2 BPSK	1	1	24.19	24.28	24.21	26.0
Channel				630334	633332	636332	Tune-up limit (dBm)
Frequency (MHz)				3455.01	3499.98	3544.98	
10	PI/2 BPSK	1	1	24.14	24.22	24.21	26.0