

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16018	15267
Channel Y	16080	17949
Channel Z	16076	14569

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	-1.70	-2.41	-0.69	0.30
Channel Y	-1.27	-2.05	-0.34	0.35
Channel Z	-0.62	-1.45	0.08	0.30

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9



In Collaboration with
s p e a g
CALIBRATION LABORATORY



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

Client

Auden

Certificate No: **Z21-60210**

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN : 3975

Calibration Procedure(s)

FF-Z11-004-02

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

June 07, 2021

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Power sensor NRP-Z91	101547	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Power sensor NRP-Z91	101548	16-Jun-20(CTTL, No.J20X04344)	Jun-21
Reference 10dBAttenuator	18N50W-10dB	10-Feb-20(CTTL, No.J20X00525)	Feb-22
Reference 20dBAttenuator	18N50W-20dB	10-Feb-20(CTTL, No.J20X00526)	Feb-22
Reference Probe EX3DV4	SN 3617	27-Jan-21(SPEAG, No.EX3-3617_Jan21)	Jan-22
DAE4	SN 1556	15-Jan-21(SPEAG, No.DAE4-1556_Jan21)	Jan-22
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGenerator MG3700A	6201052605	23-Jun-20(CTTL, No.J20X04343)	Jun-21
Network Analyzer E5071C	MY46110673	21-Jan-21(CTTL, No.J20X00515)	Jan-22

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: June 09, 2021

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



In Collaboration with

s p e a g
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

Glossary:

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\theta=0$ ($f \leq 900\text{MHz}$ in TEM-cell; $f > 1800\text{MHz}$: waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}:** DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}:** A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800\text{MHz}$) and inside waveguide using analytical field distributions based on power measurements for $f > 800\text{MHz}$. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from $\pm 50\text{MHz}$ to $\pm 100\text{MHz}$.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle:** The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.41	0.45	0.51	$\pm 10.0\%$
DCP(mV) ^B	105.1	102.2	102.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	163.0	$\pm 2.6\%$
		Y	0.0	0.0	1.0		171.0	
		Z	0.0	0.0	1.0		183.8	

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

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter: uncertainty not required.

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



DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	10.04	10.04	10.04	0.40	0.75	± 12.1%
835	41.5	0.90	9.54	9.54	9.54	0.17	1.18	± 12.1%
900	41.5	0.97	9.52	9.52	9.52	0.17	1.14	± 12.1%
1450	40.5	1.20	8.59	8.59	8.59	0.12	1.28	± 12.1%
1750	40.1	1.37	8.38	8.38	8.38	0.28	0.92	± 12.1%
1900	40.0	1.40	7.92	7.92	7.92	0.21	1.15	± 12.1%
2000	40.0	1.40	7.97	7.97	7.97	0.19	1.21	± 12.1%
2300	39.5	1.67	7.84	7.84	7.84	0.65	0.67	± 12.1%
2450	39.2	1.80	7.60	7.60	7.60	0.67	0.67	± 12.1%
2600	39.0	1.96	7.35	7.35	7.35	0.65	0.67	± 12.1%
3300	38.2	2.71	6.88	6.88	6.88	0.44	0.96	± 13.3%
3500	37.9	2.91	6.82	6.82	6.82	0.42	0.95	± 13.3%
3700	37.7	3.12	6.52	6.52	6.52	0.44	1.03	± 13.3%
3900	37.5	3.32	6.40	6.40	6.40	0.40	1.25	± 13.3%
4100	37.2	3.53	6.50	6.50	6.50	0.40	1.15	± 13.3%
4200	37.1	3.63	6.32	6.32	6.32	0.40	1.25	± 13.3%
4400	36.9	3.84	6.19	6.19	6.19	0.35	1.35	± 13.3%
4600	36.7	4.04	6.10	6.10	6.10	0.45	1.20	± 13.3%
4800	36.4	4.25	6.05	6.05	6.05	0.45	1.20	± 13.3%
4950	36.3	4.40	5.86	5.86	5.86	0.45	1.26	± 13.3%
5250	35.9	4.71	5.31	5.31	5.31	0.40	1.55	± 13.3%
5600	35.5	5.07	4.82	4.82	4.82	0.50	1.30	± 13.3%
5750	35.4	5.22	4.90	4.90	4.90	0.50	1.30	± 13.3%

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

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

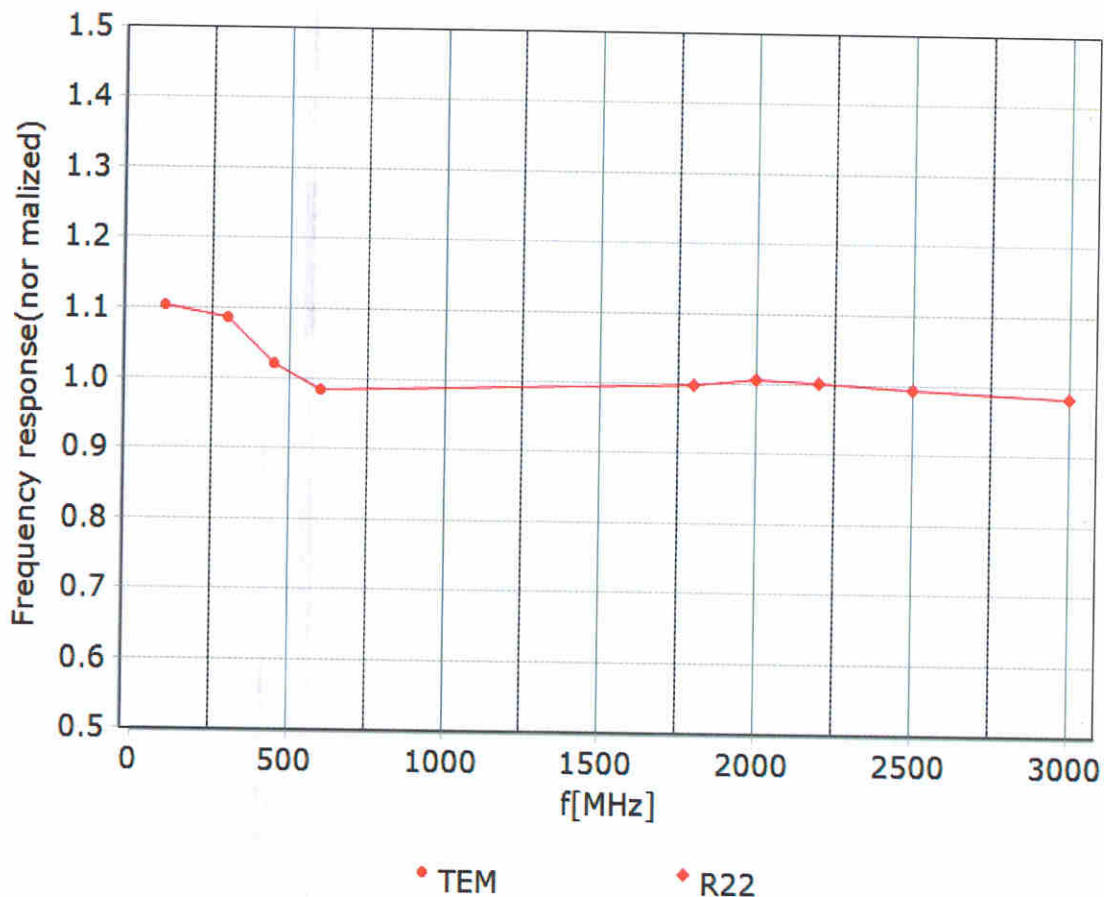
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from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



In Collaboration with
s p e a g
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

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



Uncertainty of Frequency Response of E-field: $\pm 7.4\%$ ($k=2$)

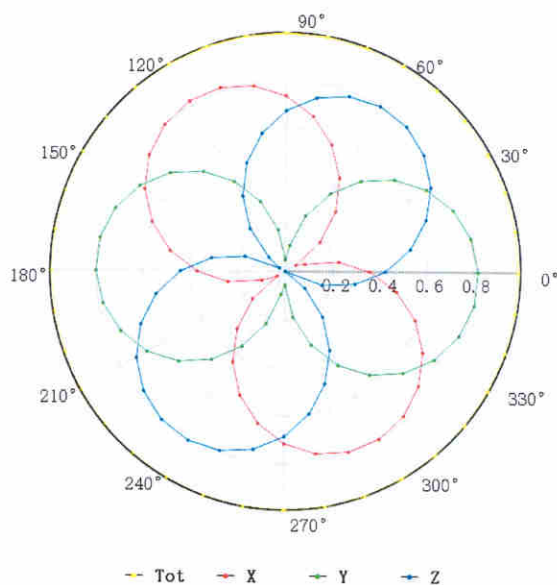


In Collaboration with
s p e a g
CALIBRATION LABORATORY

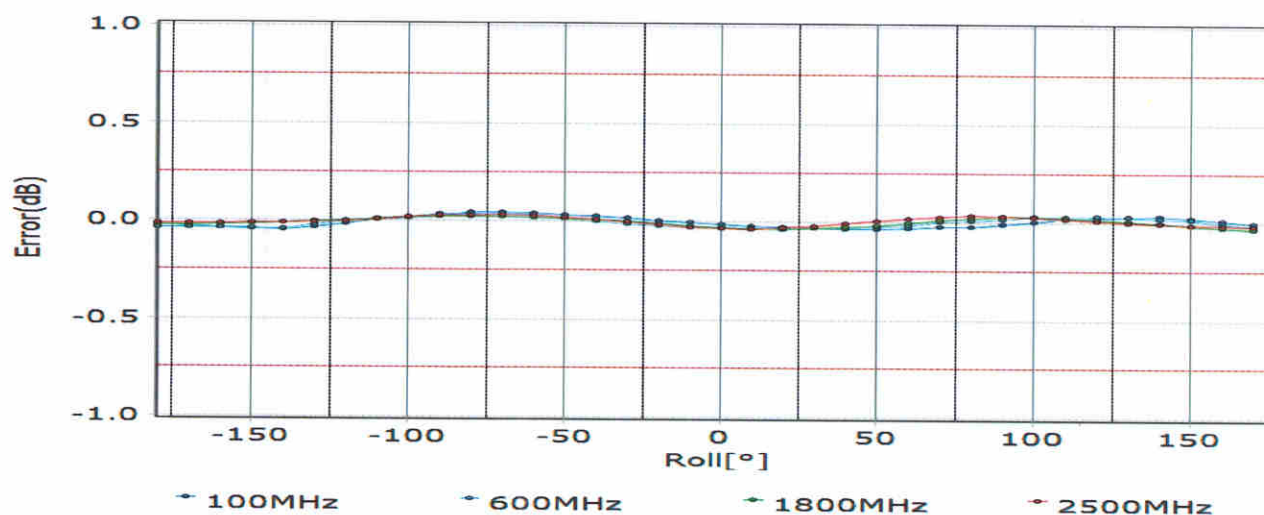
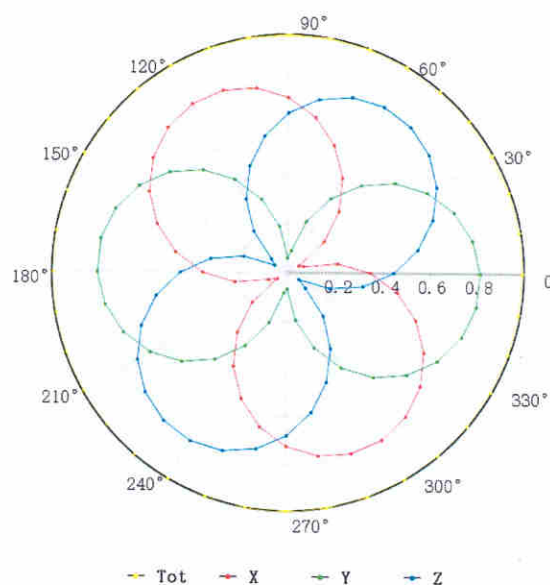
Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM



f=1800 MHz, R22



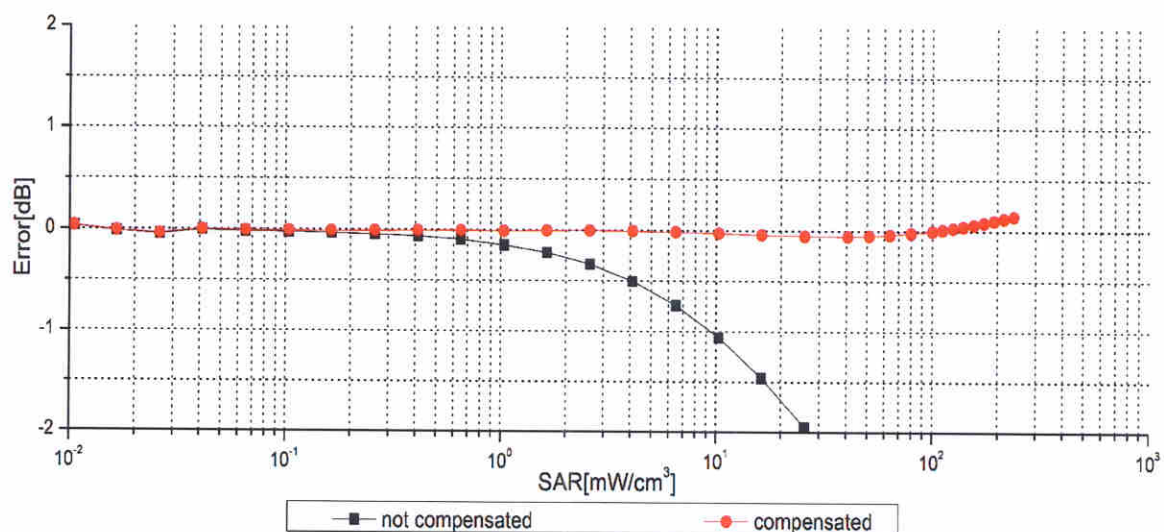
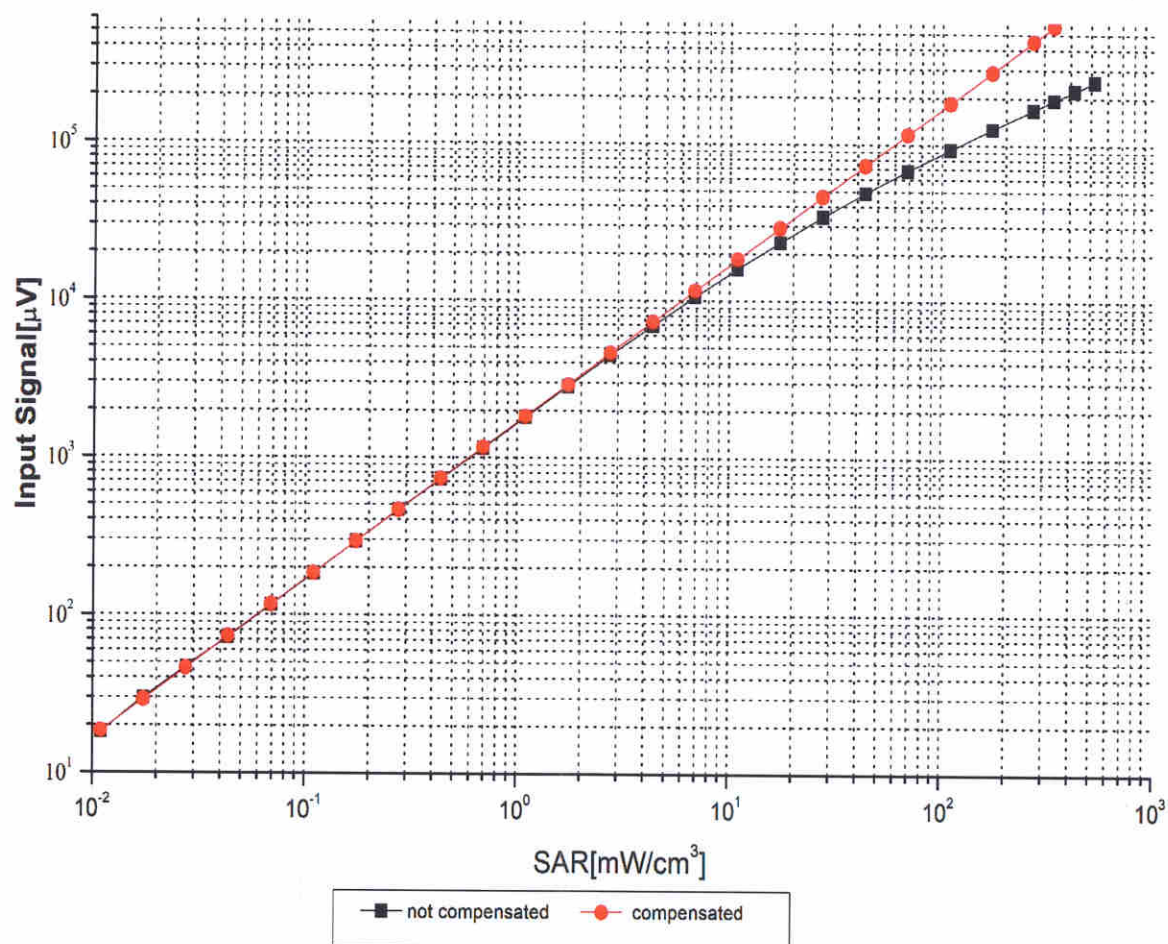
Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)



In Collaboration with
s p e a g
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f = 900 \text{ MHz}$)



Uncertainty of Linearity Assessment: $\pm 0.9\%$ ($k=2$)



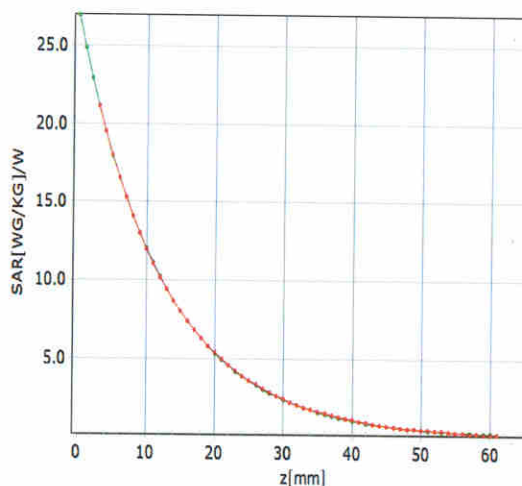
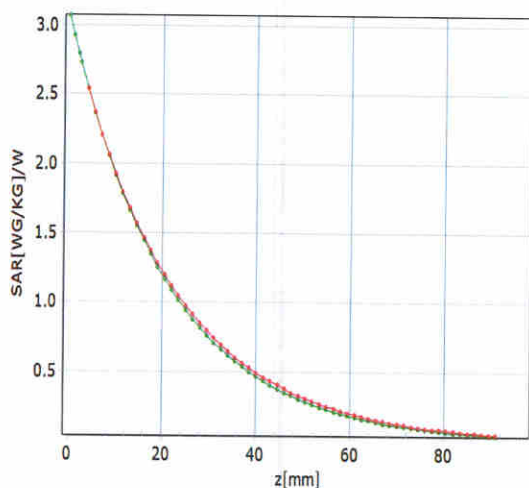
In Collaboration with
s p e a g
CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504
E-mail: cttl@chinattl.com [Http://www.chinattl.cn](http://www.chinattl.cn)

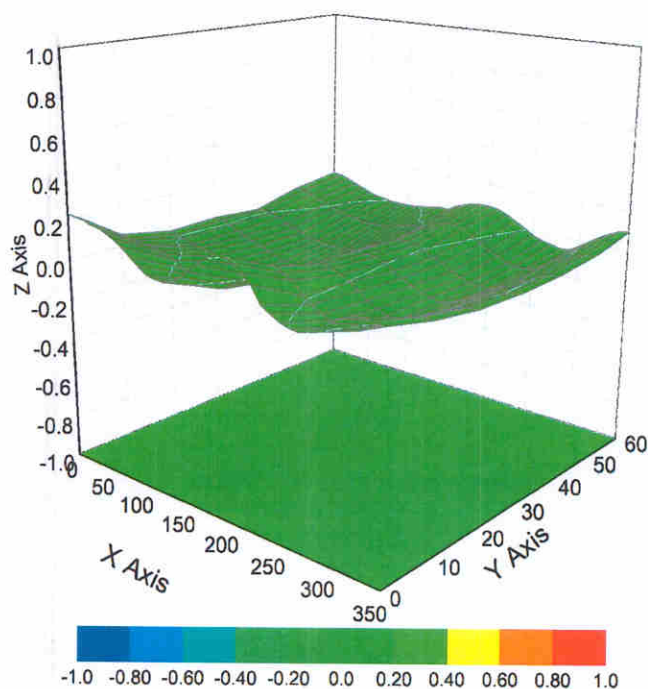
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ ($k=2$)



In Collaboration with

s p e a g

CALIBRATION LABORATORY

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

Tel: +86-10-62304633-2512

Fax: +86-10-62304633-2504

E-mail: cttl@chinattl.com

[Http://www.chinattl.cn](http://www.chinattl.cn)

DASY/EASY – Parameters of Probe: EX3DV4 – SN:3975

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	86.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



Appendix E. Conducted RF Output Power Table

The detailed power tables are shown as follows.



GSM850_Ant 0		Burst Average Power (dBm)			Tune-up		Frame-Average Power (dBm)			Tune-up					
TX Channel		128	189	251	Limit		128	189	251	Limit					
Frequency (MHz)		824.2	836.4	848.8			824.2	836.4	848.8						
DTM Multi-slot class 5	GSM 1 Tx slot	32.39	32.28	32.13	33.50		23.39	23.28	23.13	24.50					
	GPRS 1 Tx slot	32.50	32.25	32.15	33.50		23.50	23.25	23.15	24.50					
	GPRS 2 Tx slots	30.18	29.92	30.58	31.50		24.18	23.92	24.58	25.50					
	GPRS 3 Tx slots	28.76	29.34	29.18	30.50		24.50	25.08	24.92	26.24					
DTM Multi-slot class 9	GPRS 4 Tx slots	27.18	27.67	27.49	29.00		24.18	24.67	24.49	26.00					
	EDGE(GMSK 1 Tx slot)	32.45	32.32	32.11	33.50		23.45	23.22	23.11	24.50					
	EDGE(GMSK 2 Tx slots)	30.20	29.93	30.55	31.50		24.20	23.93	24.55	25.50					
	EDGE(GMSK 3 Tx slots)	28.75	29.27	29.15	30.50		24.49	25.01	24.89	26.01					
DTM Multi-slot class 11	EDGE(GMSK 4 Tx slots)	27.26	27.66	27.47	29.00		24.26	24.66	24.47	26.00					
	EDGE 1 Tx slot	26.87	26.83	26.76	28.00		17.87	17.83	17.76	19.00					
	EDGE 2 Tx slots	24.24	24.12	24.19	25.50		18.24	18.12	18.19	19.50					
	EDGE 3 Tx slots	23.03	23.05	22.91	24.50		18.77	18.79	18.65	20.24					
DTM Multi-slot class 5	EDGE 4 Tx slots	22.24	22.27	22.17	24.00		19.24	19.27	19.17	21.00					
	GSM 1 Tx slot	30.16	29.90	30.43	31.50		24.15	23.81	24.42	24.42	25.48				
DTM Multi-slot class 9	GPRS 1 Tx slot	30.19	29.76	30.45	31.50										
	GSM 1 Tx slot	30.08	29.85	30.46	31.50		24.10	23.84	24.49	24.49	25.48				
DTM Multi-slot class 11	GPRS 1 Tx slot	30.17	29.88	30.57	31.50										
	GSM 1 Tx slot	28.74	29.39	29.22	30.50		24.55	25.12	24.90	26.24					
DTM Multi-slot class 5	GPRS 2 Tx slots	28.84	29.37	29.13	30.50		22.14	21.89	22.31	22.31	23.44				
	GPRS 4 Tx slots	30.26	29.97	30.49	31.50										
DTM Multi-slot class 9	EDGE 1 Tx slot	23.95	23.86	23.86	25.50		22.07	21.92	22.45	22.45	23.44				
	GSM 1 Tx slot	30.16	30.00	30.64	31.50										
DTM Multi-slot class 11	EDGE 1 Tx slot	23.99	23.88	23.89	25.50		21.54	21.78	21.70	21.70	23.24				
	EDGE 2 Tx slots	28.81	29.22	29.09	30.50										
DTM Multi-slot class 5	EDGE 2 Tx slots	22.78	22.68	22.69	24.50							22.78	22.68	22.69	24.50
	EDGE 2 Tx slots	22.78	22.68	22.69	24.50										

GSM1900_Ant 3		Burst Average Power (dBm)				Tune-up		Frame-Average Power (dBm)				Tune-up	
TX Channel		512	661	810	Limit	512	661	810	Limit				
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8					
GSM 1 Tx slot		28.63	28.62	28.22	29.50	19.63	19.62	19.22	20.50				
GPRS 1 Tx slot		26.66	26.58	26.28	29.50	19.66	19.58	19.28	20.50				
GPRS 2 Tx slots		26.92	26.39	26.21	27.00	20.92	20.39	20.21	21.00				
GPRS 3 Tx slots		25.78	25.28	25.14	26.00	21.52	21.02	20.88	21.74				
GPRS 4 Tx slots		24.56	24.39	23.99	25.00	21.56	21.39	20.99	22.00				
EDGE(GMSK 1 Tx slot)		28.67	28.61	28.31	29.50	19.67	19.61	19.31	20.50				
EDGE(GMSK 2 Tx slots)		26.92	26.43	26.25	27.00	20.92	20.43	20.25	21.00				
EDGE(GMSK 3 Tx slots)		25.85	25.33	25.10	26.00	21.59	21.07	20.84	21.74				
EDGE(GMSK 4 Tx slots)		24.49	24.32	23.94	25.00	21.49	21.32	20.94	22.00				
EDGE 1 Tx slot		25.05	24.96	24.95	26.00	16.05	15.96	15.95	17.00				
EDGE 2 Tx slots		23.55	23.44	23.07	24.50	17.55	17.44	17.07	18.50				
EDGE 3 Tx slots		20.95	20.77	20.61	22.00	16.54	16.51	16.35	17.4				
EDGE 4 Tx slots		20.02	20.06	19.99	21.00	17.02	17.06	16.99	18.00				
DTM Multi-slot class 5	GSM 1 Tx slot	26.76	26.25	26.05	27.00	20.78	20.26	20.03	20.98				
	GPRS 1 Tx slot	26.85	26.32	26.06									
DTM Multi-slot class 9	GSM 1 Tx slot	26.62	26.23	26.14	27.00	20.84	20.22	20.16	20.98				
	GPRS 1 Tx slot	26.91	26.26	26.22									
DTM Multi-slot class 11	GSM 1 Tx slot	25.71	25.29	25.20	26.00	21.51	21.08	20.89	21.74				
	GPRS 2 Tx slots	25.80	25.36	25.12									
DTM Multi-slot class 5	GSM 1 Tx slot	26.92	26.53	26.32	27.00	19.43	19.14	18.87	19.91				
	EDGE 1 Tx slot	23.20	23.16	22.76									
DTM Multi-slot class 9	GSM 1 Tx slot	26.86	26.39	26.25	27.00	19.42	19.03	18.85	19.91				
	EDGE 1 Tx slot	23.31	23.11	22.83									
DTM Multi-slot class 11	GSM 1 Tx slot	25.94	25.35	25.14	26.00	18.89	18.49	18.32	19.51				
	EDGE 2 Tx slots	20.54	20.45	20.34									

Band		WCDMA II_Ant 3				WCDMA II_Ant 4			
Tx Channel		9262	9400	9538	Tune-up Limit	9262	9400	9538	Tune-up Limit
Rx Channel		9662	9660	9638	(dBm)	9662	9660	9638	(dBm)
Frequency (MHz)		1852.4	1860	1907.6		1852.4	1860	1907.6	
3GPP Rel 99	AMR 12.2Kbps	23.32	23.32	23.28	24.00	24.31	24.42	24.40	25.00
3GPP Rel 99	RMC 12.2Kbps	23.35	23.36	23.30	24.00	24.38	24.46	24.41	25.00
3GPP Rel 6	HS-PA Subtest-1	22.36	22.38	22.32	23.00	23.27	23.29	23.19	24.00
3GPP Rel 6	HS-PA Subtest-2	22.37	22.36	22.37	23.00	23.23	23.25	23.18	24.00
3GPP Rel 6	HS-PA Subtest-3	21.88	21.87	21.87	22.50	22.79	22.78	22.68	23.50
3GPP Rel 6	HS-PA Subtest-4	21.84	21.80	21.78	22.50	22.78	22.78	22.62	23.50
3GPP Rel 8	DC-HS-PA Subtest-1	22.38	22.35	22.33	23.00	23.42	23.57	23.41	24.00
3GPP Rel 8	DC-HS-PA Subtest-2	22.37	22.32	22.35	23.00	23.38	23.58	23.44	24.00
3GPP Rel 8	DC-HS-PA Subtest-3	21.91	21.90	21.83	22.50	22.88	23.07	22.82	23.50
3GPP Rel 8	DC-HS-PA Subtest-4	21.86	21.82	21.80	22.50	22.92	23.08	22.92	23.50
3GPP Rel 6	HS-PA Subtest-1	22.27	22.34	22.34	23.00	23.01	22.06	22.03	23.00
3GPP Rel 6	HS-PA Subtest-2	20.31	20.36	20.35	21.00	20.07	20.03	20.03	22.00
3GPP Rel 6	HS-PA Subtest-3	21.31	21.34	21.35	22.00	21.05	21.01	21.03	23.00
3GPP Rel 6	HS-PA Subtest-4	20.33	20.36	20.35	21.00	20.06	20.11	20.01	22.00
3GPP Rel 6	HS-PA Subtest-6	20.33	20.40	22.30	23.00	21.11	22.12	22.03	24.00



Band 2_Ant 3 (Default)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.01	22.08	22.03			
20	QPSK	14	48	21.84	21.78	21.83	23	0	
20	QPSK	1	99	21.84	21.78	21.79			
20	QPSK	50	0	20.98	20.99	20.92			
20	QPSK	50	24	20.95	20.95	20.93			
20	QPSK	50	50	20.95	20.93	20.90	22	1	
20	QPSK	100	0	20.92	20.93	20.86			
20	QPSK	100	0	21.27	21.19	21.04			
20	QPSK	1	49	21.26	21.35	21.38	22	1	
20	QPSK	1	99	20.99	21.07	21.14			
20	QPSK	1	99	19.95	19.95	19.93			
20	QPSK	50	24	20.92	20.92	20.93	21	2	
20	QPSK	50	50	20.94	19.99	19.92			
20	QPSK	100	0	20.91	19.91	19.88			
20	QPSK	1	0	20.94	20.93	20.98			
20	QPSK	1	49	20.19	20.09	20.10	21	2	
20	QPSK	1	99	19.95	19.95	19.99			
20	QPSK	50	0	19.96	19.94	19.93			
20	QPSK	50	24	19.93	19.98	19.95			
20	QPSK	50	50	19.94	19.95	19.91	20	3	
20	QPSK	100	0	19.97	19.87	19.88			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.89	22.00	21.91			
15	QPSK	1	37	21.88	21.78	21.70			
15	QPSK	1	74	21.78	21.68	21.64	23	0	
15	QPSK	36	0	20.80	20.87	20.79			
15	QPSK	36	20	20.88	20.81	20.82			
15	QPSK	36	39	20.92	20.79	20.78	22	1	
15	QPSK	75	0	20.96	20.84	20.75			
15	QPSK	1	0	21.18	21.12	21.02			
15	QPSK	1	37	21.15	21.05	21.03			
15	QPSK	1	74	20.98	20.94	21.12	22	1	
15	QPSK	36	0	19.94	19.87	19.85			
15	QPSK	36	20	19.87	19.88	19.81			
15	QPSK	36	39	19.92	19.78	19.85	21	2	
15	QPSK	75	0	19.99	19.83	19.76			
15	QPSK	1	1	19.91	19.92	19.85			
15	QPSK	1	37	20.18	20.04	19.95	21	2	
15	QPSK	1	74	20.02	19.95	19.91			
15	QPSK	36	0	18.88	18.90	18.91			
15	QPSK	36	20	19.00	18.82	18.78	20	3	
15	QPSK	36	39	18.95	18.95	18.92			
15	QPSK	75	0	18.96	18.79	18.83			
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.96	22.02	21.95			
10	QPSK	1	25	21.84	21.78	21.82	23	0	
10	QPSK	1	49	21.75	21.73	21.74			
10	QPSK	25	0	20.94	20.94	20.94			
10	QPSK	25	12	20.92	20.91	20.94	22	1	
10	QPSK	25	25	20.88	20.81	20.78			
10	QPSK	50	0	20.88	20.88	20.85			
10	QPSK	1	0	21.17	21.04	21.09			
10	QPSK	1	25	21.16	21.30	21.23	22	1	
10	QPSK	25	0	20.82	21.00	21.09			
10	QPSK	25	12	19.91	19.93	19.79	21	2	
10	QPSK	25	25	19.87	19.89	19.80			
10	QPSK	50	0	19.80	19.80	19.83			
10	QPSK	50	19	19.97	19.78	19.83			
10	QPSK	1	25	20.34	20.28	20.22	21	2	
10	QPSK	1	49	20.14	20.04	20.15			
10	QPSK	25	12	19.14	19.08	19.03	20	3	
10	QPSK	25	25	19.09	19.11	19.07			
10	QPSK	50	0	19.08	19.08	19.07			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.97	22.03	21.90			
5	QPSK	1	13	21.85	21.81	21.82	23	0	
5	QPSK	1	24	21.79	21.79	21.78			
5	QPSK	12	0	20.89	20.79	20.78			
5	QPSK	12	7	20.84	20.88	20.85			
5	QPSK	12	13	20.92	20.91	20.78	22	1	
5	QPSK	25	0	20.90	20.77	20.82			
5	QPSK	25	1	21.18	21.08	21.03			
5	QPSK	1	12	21.23	21.23	21.32	22	1	
5	QPSK	1	24	20.87	21.09	21.08			
5	QPSK	12	0	19.93	19.87	19.79	21	2	
5	QPSK	12	7	19.87	19.87	19.87			
5	QPSK	12	13	19.90	19.94	19.78			
5	QPSK	25	0	19.97	19.78	19.75			
5	QPSK	1	0	20.23	20.15	20.21	21	2	
5	QPSK	1	13	20.16	20.16	20.16			
5	QPSK	1	24	20.10	20.12	20.15			
5	QPSK	12	0	19.15	19.08	19.07			
5	QPSK	12	7	19.16	19.05	19.03			
5	QPSK	12	13	19.14	19.05	19.09	20	3	
5	QPSK	25	0	19.16	19.08	19.05			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.92	21.94	21.90			
3	QPSK	1	8	21.92	21.79	21.71	23	0	
3	QPSK	1	14	21.80	21.73	21.66			
3	QPSK	8	0	20.94	20.88	20.75			
3	QPSK	8	4	20.91	20.78	20.75	22	1	
3	QPSK	8	7	20.87	20.86	20.88			
3	QPSK	16	0	20.85	20.79	20.81			
3	QPSK	1	0	21.25	21.17	20.97	22	1	
3	QPSK	1	8	21.12	21.10	21.07			
3	QPSK	1	14	20.85	20.98	21.12			
3	QPSK	8	0	19.90	19.84	19.78	21	2	
3	QPSK	8	4	19.96	19.84	19.85			
3	QPSK	16	0	19.96	19.86	19.74			
3	QPSK	1	0	20.31	20.20	20.25	21	2	
3	QPSK	1	8	20.28	20.15	20.28			
3	QPSK	1	14	20.02	20.13	20.10			
3	QPSK	8	0	19.14	19.07	19.12			
3	QPSK	8	4	19.16	19.02	19.05	20	3	
3	QPSK	8	7	19.06	19.12	19.02			
3	QPSK	16	0	19.08	19.05	19.11			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.86	21.83	21.77			
1.4	QPSK	1	3	21.84	21.82	21.72	23	0	
1.4	QPSK	1	5	21.79	21.74	21.67			
1.4	QPSK	3	0	21.92	21.86	21.81			
1.4	QPSK	3	1	21.90	21.86	21.81			
1.4	QPSK	6	0	20.86	20.83	20.80	22	1	
1.4	QPSK	1	0	21.22	21.12	21.28			
1.4	QPSK	1	3	21.14	21.02	21.07			
1.4	QPSK	1	5	21.19	21.20	21.10	22	1	
1.4	QPSK	3	0	21.08	21.04	21.04			
1.4	QPSK	3	1	21.11	21.09	20.99			
1.4	QPSK	3	3	21.02	21.02	20.97			
1.4	QPSK	6	0	20.18	20.11	20.06	21	2	
1.4	QPSK	6	0	20.27	20.28	20.13			
1.4	QPSK	1	0	20.22	20.15	20.21			
1.4	QPSK	1	5	20.18	20.24	20.20	21	2	
1.4	QPSK	3	0	20.13	20.17	20.14			
1.4	QPSK	3	1	20.22	20.20	20.18			
1.4	QPSK	3	3	20.22	20.18	20.13			
1.4	QPSK	6	0	19.13	19.09	19.03	20	3	

Band 2_Ant 4 (Default)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.21	23.26	23.04			
20	QPSK	1	49	23.02	22.98	22.98	24	0	
20	QPSK	1	99	22.92	22.88	22.78			
20	QPSK	50	0	22.16	22.18	22.15			
20	QPSK	50	24	22.13	22.12	22.12			
20	QPSK	50	50	22.11	22.08	22.14	23	1	
20	QPSK	100	0	22.12	22.13	22.10			
20	QPSK	100	0	22.43	22.43	22.43			
20	QPSK	1	49	22.43	22.49	22.15	23	1	
20	QPSK	1	99	22.26	22.26	22.17			
20	QPSK	1	99	21.09	21.09	21.09			
20	QPSK	50	24	21.34	21.33	21.14	22	2	
20	QPSK	50	50	21.09	21.13	21.03			
20	QPSK	100	0	21.14	21.02	21.03			
20	QPSK	1	0	21.45	21.15	21.09			
20	QPSK	1	49	21.40	21.38	21.26	22	2	
20	QPSK	1	99	21.15	21.10	21.05			
20	QPSK	50	0	20.20	20.14	20.17			
20	QPSK	50	24	20.01	20.14	20.11			



Band 5_Ant 0 (Default)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.81	23.82	23.79			
10	QPSK	1	25	23.74	23.65	23.77	25	0	
10	QPSK	1	49	23.73	23.65	23.68			
10	QPSK	25	0	22.92	22.93	22.88			
10	QPSK	25	12	22.82	22.74	22.83			
10	QPSK	25	25	22.91	22.82	22.74	24	1	
10	QPSK	50	0	22.81	22.85	22.82			
10	QPSK	50	0	23.23	23.18	23.08			
10	IQAM	1	25	23.04	23.18	23.08	24	1	
10	IQAM	1	49	23.28	23.05	23.32			
10	IQAM	1	49	23.18	23.03	23.18			
10	IQAM	25	12	21.81	21.98	21.81	23	2	
10	IQAM	25	25	21.96	21.78	21.81			
10	IQAM	50	0	21.90	21.79	21.83			
10	IQAM	1	0	21.70	22.17	21.83	23	2	
10	IQAM	1	25	22.16	21.82	22.01			
10	IQAM	1	49	22.15	21.83	21.88			
10	IQAM	25	0	20.88	20.88	20.75			
10	IQAM	25	12	20.95	20.80	20.79	22	3	
10	IQAM	25	25	20.77	20.85	20.82			
10	IQAM	50	0	20.80	20.79	20.84			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.87	23.75	23.87			
5	QPSK	1	12	23.63	23.70	23.65	25	0	
5	QPSK	1	24	23.68	23.60	23.65			
5	QPSK	12	0	22.79	22.88	22.81			
5	QPSK	12	7	22.76	22.89	22.79	24	1	
5	QPSK	12	13	22.80	22.74	22.80			
5	QPSK	25	0	22.70	22.72	22.73			
5	IQAM	1	0	23.18	23.17	23.22			
5	IQAM	1	24	22.96	23.08	22.98	24	1	
5	IQAM	1	24	23.17	23.03	23.26			
5	IQAM	12	0	21.80	21.70	21.84			
5	IQAM	12	13	21.82	21.74	21.76	23	2	
5	IQAM	25	0	21.81	21.79	21.85			
5	IQAM	1	0	21.68	22.02	21.77	23	2	
5	IQAM	1	12	22.09	21.76	21.99			
5	IQAM	1	24	22.08	21.78	21.85			
5	IQAM	12	0	20.83	20.85	20.72			
5	IQAM	12	7	20.84	20.72	20.69	22	3	
5	IQAM	12	13	20.77	20.78	20.75			
5	IQAM	25	0	20.72	20.70	20.74			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.72	23.81	23.85			
1.4	QPSK	1	8	23.82	23.78	23.79	25	0	
1.4	QPSK	1	14	23.69	23.59	23.60			
1.4	QPSK	8	0	22.77	22.81	22.86			
1.4	QPSK	8	4	22.74	22.67	22.75	24	1	
1.4	QPSK	8	7	22.83	22.68	22.68			
1.4	QPSK	15	0	22.73	22.84	22.87			
1.4	IQAM	1	0	23.10	23.05	23.04			
1.4	IQAM	1	8	22.93	23.14	22.96	24	1	
1.4	IQAM	1	14	23.18	22.88	23.04			
1.4	IQAM	8	0	21.74	21.80	21.71			
1.4	IQAM	8	4	21.78	21.77	21.75	23	2	
1.4	IQAM	7	0	21.71	21.73	21.75			
1.4	IQAM	15	0	21.95	21.64	21.72			
1.4	IQAM	1	0	21.67	22.09	21.70	23	2	
1.4	IQAM	1	8	22.03	21.77	21.84			
1.4	IQAM	1	14	22.04	21.79	21.78			
1.4	IQAM	8	0	20.84	20.82	20.74			
1.4	IQAM	8	4	20.81	20.77	20.77	22	3	
1.4	IQAM	8	7	20.74	20.81	20.80			
1.4	IQAM	15	0	20.76	20.72	20.70			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.71	23.80	23.79			
1.4	QPSK	1	3	23.60	23.68	23.64	25	0	
1.4	QPSK	1	5	23.71	23.63	23.63			
1.4	QPSK	3	0	22.67	22.79	22.75			
1.4	QPSK	3	1	23.68	23.64	23.79			
1.4	QPSK	3	3	23.65	23.81	23.65			
1.4	QPSK	6	0	22.79	22.89	22.86	24	1	
1.4	QPSK	6	0	23.18	23.10	23.32			
1.4	IQAM	1	3	22.91	23.05	22.98			
1.4	IQAM	1	5	23.18	22.97	23.09	24	1	
1.4	IQAM	3	0	22.81	22.76	22.75			
1.4	IQAM	3	1	22.76	22.82	22.88			
1.4	IQAM	3	3	22.76	22.79	22.81			
1.4	IQAM	6	0	21.87	21.64	21.74	23	2	
1.4	IQAM	1	0	21.87	22.23	21.94			
1.4	IQAM	1	3	22.34	22.04	22.15			
1.4	IQAM	1	5	22.28	22.26	22.25			
1.4	IQAM	3	0	22.05	22.01	21.98	23	2	
1.4	IQAM	3	0	22.03	21.99	21.86			
1.4	IQAM	6	0	22.05	21.86	21.88			
1.4	IQAM	3	0	21.88	22.01	21.92			
1.4	IQAM	3	0	20.98	20.89	21.02	22	3	

Band 5_Ant 1 (Default)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Tune-up Int. (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.11	24.18	24.08			
10	QPSK	1	25	24.02	24.17	24.05	25	0	
10	QPSK	1	49	24.09	23.98	24.04			
10	QPSK	25	0	23.23	23.26	23.24			
10	QPSK	25	12	23.21	23.18	23.21			
10	QPSK	25	25	23.14	23.17	23.11	24	1	
10	QPSK	50	0	23.20	23.25	23.15			
10	QPSK	50	0	23.68	23.59	23.50			
10	IQAM	1	25	23.98	23.43	23.25	24	1	
10	IQAM	1	49	23.60	23.29	23.46			
10	IQAM	1	49	23.58	23.47	23.45			
10	IQAM	25	12	22.92	22.27	22.20	23	2	
10	IQAM	25	25	22.92	22.23	22.06			
10	IQAM	50	0	22.93	22.05	22.10			
10	IQAM	1	0	22.92	22.51	22.49			
10	IQAM	1	25	22.40	22.33	22.35	23	2	
10	IQAM	1	49	22.38	22.47	22.45			
10	IQAM	25	0	21.83	21.17	21.21			
10	IQAM	25	12	21.86	21.11	21.25	22	3	
10	IQAM	25	25	21.17	21.15	21.25			
10	IQAM	50	0	21.17	21.23	21.24			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.04	24.06	24.05			
5	QPSK	1	12	23.69	24.12	23.65	25	0	
5	QPSK	1	24	24.01	23.86	24.03			
5	QPSK	12	0	23.11	23.12	23.23			
5	QPSK	12	7	23.14	23.05	23.17	24	1	
5	QPSK	12	13	23.08	23.09	23.07			
5	QPSK	25	0	23.09	23.22	23.03			
5	IQAM	1	0	23.83	23.48	23.45			
5	IQAM	1	24	23.81	23.32	23.34	24	1	
5	IQAM	1	24	23.97	23.17	23.30			
5	IQAM	12	0	22.11	22.22	22.01			
5	IQAM	12	13	22.16	22.15	21.92	23	2	
5	IQAM	25	0	22.12	22.12	22.01			
5	IQAM	25	12	22.02	22.02	22.14			
5	IQAM	25	25	21.87	21.38	22.30			
5	IQAM	1	12	22.31	22.31	22.24	23	2	
5	IQAM	1	24	22.28	22.42	22.39			
5	IQAM	12	0	20.99	21.13	21.13			
5	IQAM	12	7	21.19	21.10	21.17	22	3	
5	IQAM	12	13	21.12	21.12	21.21			
5	IQAM	25	0	21.13	21.14	21.15			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.01	24.03	23.97			
3	QPSK	1	8	24.01	24.10	23.97	25	0	
3	QPSK	1	14	24.02	23.98	23.96			
3	QPSK	8	0	23.11	23.21	23.17			
3	QPSK	8	4	23.10	23.09	23.11	24	1	
3	QPSK	8	7	23.13	23.07	23.06			
3	QPSK	15	0	23.12	23.13	23.01			
3	IQAM	1	0	23.81	23.51	23.49			
3	IQAM	1	8	23.46	23.58	23.25	24	1	
3	IQAM	1	14	23.58	23.21	23.45			
3	IQAM	8	0	22.16	22.19	22.02			
3	IQAM	8	4	22.21	22.16	22.10	23	2	
3	IQAM	7	0	22.17	22.13	21.96			
3	IQAM	15	0	22.13	22.06	22.15			
3	IQAM	1	0	22.03	22.47	22.47			
3	IQAM	1	8	22.35	22.24	22.22	23	2	
3	IQAM	1	14	22.32	22.34	22.24			
3	IQAM	8	0	21.00	21.16	21.10			
3	IQAM	8	4	21.24	21.09	21.19	22	3	
3	IQAM	8	7	21.15	21.12	21.21			
3	IQAM	15	0	21.12	21.13	21.21			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	24.05	24.05	24.05			
1.4	QPSK	1	3	23.98	24.03	24.02			
1.4	QPSK	1	6	24.00	24.00	24.00	25	0	
1.4	QPSK	1	9	24.02	24.14	24.11			
1.4	QPSK	1	12	24.01	24.08	24.07			
1.4	QPSK	3	0	23.99	24.10	24.04			
1.4	QPSK	6	0	23.15	23.12	23.20	26	1	
1.4	QPSK	1	0	23.60	23.58	23.44			
1.4	QPSK	1	3	23.29	23.21	23.21			
1.4	QPSK	1	6	23.90	23.20	23.44	24	1	
1.4	QPSK	3	0	23.05	23.16	22.88			
1.4	QPSK	6	0	23.19	23.18	23.01	25	2	
1.4	QPSK	3	0	23.21	23.16	23.02			
1.4	IQAM	1	0	22.98	22.93	22.96	23	2	
1.4	IQAM	1	3	22.99	22.98	22.98			
1.4	IQAM	1	6	22.96	22.96	22.96			
1.4	IQAM	1	9	22.95	22.26	22.35	22	3	
1.4	IQAM	1	12	22.96	22.41	22.47			
1.4	IQAM	3	0	22.97	22.92	22.98			
1.4	IQAM	6	0	22.97	22.97	22.99			
1.4	IQAM	3	0	22.11	22.07	22.10			
1.4	IQAM	6	0	21.96	21.21	21.17	22	3	



Band 12_Ant 0 (Default)													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)					
Channel													
Frequency (MHz)													
10	QPSK	1	0	24.00	24.15	24.03			25	0			
10	QPSK	1	25	23.95	23.95	23.97							
10	QPSK	1	49	23.88	23.99	23.92			24	1			
10	QPSK	25	0	23.11	23.16	23.09							
10	QPSK	25	12	23.07	23.08	23.03			23	2			
10	QPSK	25	25	23.09	23.12	23.08							
10	QPSK	50	0	23.10	23.12	23.09			24	1			
10	ISQAM	1	0	23.32	23.46	23.45							
10	ISQAM	1	25	23.44	23.52	23.27			23	2			
10	ISQAM	1	49	23.23	23.47	23.12							
10	ISQAM	25	0	22.04	21.99	22.04			22	3			
10	ISQAM	25	12	22.20	22.04	22.03							
10	ISQAM	25	25	22.12	22.17	22.06			23	2			
10	ISQAM	50	0	22.05	22.02	22.07							
10	SQAM	1	0	22.20	22.30	22.04			23	2			
10	SQAM	1	25	22.15	22.34	22.10							
10	SQAM	1	49	22.43	22.18	22.22			22	3			
10	SQAM	25	0	21.03	21.07	21.05							
10	SQAM	25	12	21.11	21.10	21.11			22	3			
10	SQAM	25	25	21.12	21.11	21.03							
10	SQAM	50	0	21.18	21.00	21.00			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
5	QPSK	1	0	23.94	24.01	24.02			25	0			
5	QPSK	1	12	23.94	23.92	23.87							
5	QPSK	1	24	23.81	23.85	23.80			24	1			
5	QPSK	12	0	22.88	23.01	22.95							
5	QPSK	12	7	23.02	22.87	22.92			23	1			
5	QPSK	12	13	23.00	23.11	23.00							
5	QPSK	25	0	23.04	23.09	22.84			24	1			
5	ISQAM	1	0	23.18	23.34	23.30							
5	ISQAM	1	24	23.30	23.40	23.18			23	2			
5	ISQAM	12	0	21.97	21.87	21.80							
5	ISQAM	12	7	22.06	22.03	21.95			23	2			
5	ISQAM	12	13	22.11	22.08	21.91							
5	SQAM	1	0	21.95	21.94	22.01			23	2			
5	SQAM	1	24	22.12	22.05	21.94							
5	SQAM	1	12	22.13	22.40	21.95			22	3			
5	SQAM	12	0	21.01	21.01	21.04							
5	SQAM	12	7	21.10	21.03	21.06			23	2			
5	SQAM	12	13	21.05	21.07	20.98							
5	SQAM	25	0	21.09	20.97	20.95			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
3	QPSK	1	0	23.97	24.00	23.99			25	0			
3	QPSK	1	8	23.85	23.80	23.83							
3	QPSK	1	14	23.79	23.85	23.86			24	1			
3	QPSK	8	0	23.07	23.03	23.00							
3	QPSK	8	4	23.06	22.95	23.02			23	2			
3	QPSK	8	7	22.95	23.08	23.00							
3	ISQAM	1	0	23.05	23.07	22.98			24	1			
3	ISQAM	1	0	23.31	23.45	23.42							
3	ISQAM	1	8	23.39	23.31	23.19			23	2			
3	ISQAM	1	14	23.18	23.36	23.10							
3	ISQAM	8	0	21.94	21.82	21.94			23	2			
3	ISQAM	8	4	22.12	21.97	21.80							
3	ISQAM	8	7	22.01	22.05	21.82			23	2			
3	ISQAM	15	0	21.91	21.98	22.01							
3	ISQAM	1	0	22.09	22.19	21.98			23	2			
3	ISQAM	1	8	22.10	22.42	22.01							
3	SQAM	1	14	22.33	22.09	22.15			22	3			
3	SQAM	8	0	20.96	21.06	20.98							
3	SQAM	8	4	21.05	21.03	21.02			23	2			
3	SQAM	8	7	21.06	21.02	20.93							
3	SQAM	16	0	21.17	20.91	20.91			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	23.80	23.90	23.83			25	0			
1.4	QPSK	1	3	23.90	23.83	23.85							
1.4	QPSK	1	5	23.81	23.87	23.81			24	1			
1.4	QPSK	3	0	23.99	23.91	23.95							
1.4	QPSK	3	1	23.87	23.86	23.83			24	1			
1.4	QPSK	3	3	23.96	23.91	23.89							
1.4	QPSK	6	0	23.08	23.08	22.92			23	2			
1.4	ISQAM	1	0	23.30	23.45	23.34							
1.4	ISQAM	1	3	23.42	23.44	23.17			24	1			
1.4	ISQAM	1	5	23.42	23.44	23.01							
1.4	ISQAM	3	0	22.98	22.95	22.89			23	2			
1.4	ISQAM	3	1	23.17	22.91	22.93							
1.4	ISQAM	3	3	23.10	23.02	22.98			23	2			
1.4	ISQAM	6	0	21.92	21.93	21.93							
1.4	SQAM	1	0	22.16	22.17	22.00			23	2			
1.4	SQAM	1	3	22.16	22.46	22.08							
1.4	SQAM	1	5	22.28	22.13	22.15			23	2			
1.4	SQAM	3	0	22.12	22.10	22.05							
1.4	SQAM	3	1	22.06	22.04	22.02			22	3			
1.4	SQAM	3	3	22.10	22.03	22.01							
1.4	SQAM	6	0	21.20	21.05	21.07			Time-up Int. (sec)				

Band 12_Ant 1 (Default)													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)					
Channel													
Frequency (MHz)													
10	QPSK	1	0	24.09	24.24	24.10			25	0			
10	QPSK	1	25	24.03	24.13	24.03							
10	QPSK	1	49	24.03	24.02	24.01			24	1			
10	QPSK	25	0	23.16	23.18	23.14							
10	QPSK	25	12	23.11	23.17	23.08			23	2			
10	QPSK	25	25	23.14	23.16	23.10							
10	ISQAM	1	0	23.47	23.71	23.39			24	1			
10	ISQAM	1	49	23.73	23.57	23.65							
10	ISQAM	25	0	22.17	22.19	22.12			23	2			
10	ISQAM	25	12	22.17	22.05	22.10							
10	ISQAM	25	25	22.30	22.31	22.30			22	3			
10	ISQAM	50	0	22.23	22.24	22.24							
10	SQAM	1	0	22.23	22.57	22.40			23		2		
10	SQAM	1	25	22.26	22.47	22.26							
10	SQAM	1	49	22.92	22.31	22.41			22		3		
10	SQAM	25	0	21.19	21.11	21.07							
10	SQAM	25	12	21.52	21.47	21.54			22	3			
10	SQAM	25	25	21.29	21.17	21.16							
10	SQAM	50	0	21.26	21.11	21.04			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
5	QPSK	1	0	701.5	701.5	713.5			25	0			
5	QPSK	1	12	23.99	24.00	24.04							
5	QPSK	1	24	23.93	23.87	23.98			24	1			
5	QPSK	12	0	23.02	23.17	23.13							
5	QPSK	12	7	23.06	23.10	23.02			23	1			
5	QPSK	12	13	23.03	23.12	23.08							
5	QPSK	25	0	23.09	23.03	23.02			24	1			
5	ISQAM	1	0	23.85	23.58	23.36							
5	ISQAM	1	12	23.44	23.60	23.39			23	2			
5	ISQAM	1	24	23.68	23.44	23.64							
5	ISQAM	12	0	22.0	22.0	22.0			23	2			
5	ISQAM	12	7	22.5	21.94	22.02							
5	ISQAM	12	13	22.29	22.20	22.19			23	2			
5	ISQAM	25	0	22.18	22.18	22.18							
5	ISQAM	25	12	22.18	22.02	22.34			22	3			
5	ISQAM	25	25	22.25	22.39	22.18							
5	ISQAM	50	0	22.20	22.20	22.20			22		3		
5	ISQAM	12	0	21.09	21.05	21.02							
5	ISQAM	12	7	21.17	21.17	21.01			22			3	
5	ISQAM	12	13	21.15	21.13	21.13							
5	ISQAM	25	0	21.16	21.07	20.99			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
3	QPSK	1	0	24.07	24.09	24.16			25	0			
3	QPSK	1	8	24.03	24.12	24.03							
3	QPSK	1	16	23.98	23.97	23.97			24	1			
3	QPSK	8	4	23.01	23.04	23.06							
3	QPSK	8	12	23.02	23.13	23.09			23	2			
3	QPSK	16	0	23.06	23.11	23.11							
3	ISQAM	1	0	23.50	23.53	23.28			24	1			
3	ISQAM	1	8	23.47	23.52	23.31							
3	ISQAM	1	16	23.40	23.48	23.40			23	2			
3	ISQAM	8	4	22.57	22.67	22.59							
3	ISQAM	8	12	22.5	22.51	22.51			22	3			
3	ISQAM	8	16	22.26	22.28	22.26							
3	ISQAM	16	0	22.16	22.16	22.16			22		3		
3	ISQAM	16	8	22.21	22.03	22.27							
3	ISQAM	1	8	22.18	22.35	22.25			23			2	
3	ISQAM	1	16	22.18	22.18	22.18							
3	ISQAM	8	4	21.16	21.03	21.00			22	3			
3	ISQAM	8	12	21.20	21.17	20.98							
3	ISQAM	8	16	21.14	21.11	21.11			22		3		
3	ISQAM	16	0	21.24	21.07	20.95							
3	ISQAM	16	8	23.07	23.09	23.17			Time-up Int. (sec)				
Channel													
Frequency (MHz)													
1.4	QPSK	1	0	23.99	24.05	23.98			25	0			
1.4	QPSK	1	3	24.02	24.00	23.89							
1.4	QPSK	1	6	23.97	23.91	23.87			24	1			
1.4	QPSK	3	0	23.97	24.07	23.95							
1.4	QPSK	3	6	23.97	23.93	23.87			23	2			
1.4	QPSK	6	0	23.90	23.95	23.91							
1.4	ISQAM	1	0	22.99	23.02	22.99			24	1			
1.4	ISQAM	1	3	23.44	23.61	23.31							
1.4	ISQAM	1	6	23.37	23.63	23.21			23	2			
1.4	ISQAM	3	0	23.67	23.42	23.64							
1.4	ISQAM	3	3	23.13	23.10	23.11			22	3			
1.4	ISQAM	3	6	23.07	22.94	22.96							
1.4	ISQAM	6	0	22.99	23.22	23.25			22		3		
1.4	ISQAM	6	3	22.94	22.98	22.98							
1.4	ISQAM	6	6	22.94	22.91	22.99			23			3	
1.4	ISQAM	6	9	22.93	22.83	22.93							
1.4	ISQAM	6	12	22.90	22.82	22.83			22	3			
1.4	ISQAM	6	15	22.90	22.77	22.90							
1.4	ISQAM	6	18	22.88	22.76	22.88			22		3		
1.4	ISQAM	6	21	22.80	22.72	22.80							
1.4	ISQAM	6	24	21.28	21.17	21.09			Time-up Int. (sec)				
Channel													
Frequency (MHz)													



Band 17_Ant 0 (Default)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Mid Ch / Freq.	Power High Ch / Freq.	Time-up Int. (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.97	24.14	23.67	25	0	
10	QPSK	1	25	24.06	24.07	24.04			
10	QPSK	1	49	23.91	23.97	23.93	24	1	
10	QPSK	25	0	23.09	23.12	23.11			
10	QPSK	25	19	23.04	23.08	23.09	24	1	
10	QPSK	25	25	23.04	23.08	23.01			
10	IQGDM	1	0	23.19	23.18	23.08	24	1	
10	IQGDM	1	25	23.05	23.44	23.07			
10	IQGDM	1	49	23.07	23.45	23.09	23	2	
10	IQGDM	25	0	22.14	22.16	22.08			
10	IQGDM	25	19	22.18	22.21	22.20	23	2	
10	IQGDM	25	25	22.14	22.19	22.16			
10	IQGDM	50	0	22.18	22.22	22.07	22	3	
10	IQGDM	1	0	22.25	22.32	22.19			
10	IQGDM	1	25	21.94	22.21	22.02	23	2	
10	IQGDM	1	49	22.06	22.43	22.08			
10	IQGDM	25	0	20.95	21.03	21.03	22	3	
10	IQGDM	25	19	21.09	21.07	21.05			
10	IQGDM	25	25	21.18	21.10	21.03	22	3	
10	IQGDM	50	0	21.05	20.99	21.03			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.84	24.08	23.74	25	0	
5	QPSK	1	12	23.92	23.89	24.12			
5	QPSK	1	24	23.81	23.95	23.81	24	1	
5	QPSK	12	0	22.99	22.91	22.87			
5	QPSK	12	7	22.96	22.94	23.01	24	1	
5	QPSK	12	13	22.94	23.04	23.09			
5	QPSK	25	0	22.99	22.92	22.94	24	1	
5	IQGDM	1	0	23.05	23.05	23.02			
5	IQGDM	1	12	23.49	23.33	23.49	23	2	
5	IQGDM	1	24	23.44	23.38	23.59			
5	IQGDM	12	0	22.08	21.96	22.04	23	2	
5	IQGDM	12	7	22.16	22.13	22.05			
5	IQGDM	1	0	22.12	22.30	22.05	23	2	
5	IQGDM	1	12	21.90	22.36	21.95			
5	IQGDM	1	24	21.09	22.33	21.03	22	3	
5	IQGDM	12	0	20.85	21.03	21.01			
5	IQGDM	12	7	21.07	20.92	20.96			
5	IQGDM	12	13	21.09	21.03	20.97			
5	IQGDM	25	0	21.02	20.95	21.01			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.97	24.14	23.67	25	0	
10	QPSK	1	25	24.06	24.07	24.04			
10	QPSK	1	49	23.91	23.97	23.93	24	1	
10	QPSK	25	0	23.09	23.12	23.11			
10	QPSK	25	19	23.04	23.08	23.09	24	1	
10	QPSK	25	25	23.04	23.08	23.01			
10	QPSK	50	0	23.04	23.08	23.07	24	1	
10	IQGDM	1	0	23.19	23.18	23.08			
10	IQGDM	1	25	23.05	23.44	23.07	23	2	
10	IQGDM	1	49	23.07	23.45	23.09			
10	IQGDM	25	0	22.14	22.16	22.08	23	2	
10	IQGDM	25	19	22.18	22.21	22.20			
10	IQGDM	25	25	22.14	22.19	22.16	22	3	
10	IQGDM	50	0	22.18	22.22	22.07			
10	IQGDM	1	0	22.25	22.32	22.19	23	2	
10	IQGDM	1	25	21.94	22.21	22.02			
10	IQGDM	1	49	22.06	22.43	22.08	22	3	
10	IQGDM	25	0	20.95	21.03	21.03			
10	IQGDM	25	19	21.09	21.07	21.05	22	3	
10	IQGDM	25	25	21.18	21.10	21.03			
10	IQGDM	50	0	21.05	20.99	21.03			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.97	24.14	23.67	25	0	
10	QPSK	1	25	24.06	24.07	24.04			
10	QPSK	1	49	23.91	23.97	23.93	24	1	
10	QPSK	25	0	23.09	23.12	23.11			
10	QPSK	25	19	23.04	23.08	23.09	24	1	
10	QPSK	25	25	23.04	23.08	23.01			
10	QPSK	50	0	23.04	23.08	23.07	24	1	
10	IQGDM	1	0	23.19	23.18	23.08			
10	IQGDM	1	25	23.05	23.44	23.07	23	2	
10	IQGDM	1	49	23.07	23.45	23.09			
10	IQGDM	25	0	22.14	22.16	22.08	23	2	
10	IQGDM	25	19	22.18	22.21	22.20			
10	IQGDM	25	25	22.14	22.19	22.16	22	3	
10	IQGDM	50	0	22.18	22.22	22.07			
10	IQGDM	1	0	22.25	22.32	22.19	23	2	
10	IQGDM	1	25	21.94	22.21	22.02			
10	IQGDM	1	49	22.06	22.43	22.08	22	3	
10	IQGDM	25	0	20.95	21.03	21.03			
10	IQGDM	25	19	21.09	21.07	21.05	22	3	
10	IQGDM	25	25	21.18	21.10	21.03			
10	IQGDM	50	0	21.05	20.99	21.03			



Band 26_Ant_0 (Default)														
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Time-up [min]	MFR [dB]						
Channel	Frequency [MHz]	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.				
15	QPSK	1	0	23.80	23.80	23.80	25	0						
15	QPSK	1	37	23.81	23.81	23.81								
15	QPSK	1	74	23.82	23.82	23.82								
15	QPSK	36	0	22.93	22.98	22.89								
15	QPSK	36	20	22.90	22.92	22.84	24	1						
15	QPSK	36	39	22.91	22.82	22.84								
15	QPSK	75	0	22.85	22.87	22.81								
15	QPSK	75	11	22.87	22.85	22.85								
16	16QAM	1	37	23.29	23.29	23.13	24	1						
16	16QAM	1	74	23.26	23.24	23.05								
16	16QAM	36	20	21.90	21.90	21.94								
16	16QAM	36	39	21.91	21.81	21.78								
16	16QAM	75	0	21.87	21.91	21.80	23	2						
16	16QAM	75	11	21.88	21.88	21.89								
16	16QAM	1	0	21.99	22.02	22.36								
16	16QAM	1	37	22.24	22.07	22.14								
16	16QAM	36	20	20.96	20.94	20.74	22	3						
16	16QAM	36	20	20.97	20.93	20.95								
16	16QAM	36	39	21.03	21.00	21.02								
16	16QAM	75	0	21.01	20.92	20.91								
Channel														
Frequency [MHz]														
16	QPSK	1	0	23.70	23.74	23.82	25	0						
16	QPSK	1	25	23.68	23.72	23.75								
16	QPSK	1	49	23.69	23.69	23.69								
16	QPSK	25	0	22.91	22.92	22.84								
16	QPSK	25	12	22.81	22.83	22.83	24	1						
16	QPSK	25	25	22.82	22.82	22.81								
16	QPSK	50	0	22.75	22.80	22.78								
16	QPSK	1	0	23.08	23.14	23.02								
16	16QAM	1	25	23.18	23.06	23.06	24	1						
16	16QAM	1	49	22.85	22.81	22.98								
16	16QAM	25	0	21.87	21.80	21.88								
16	16QAM	25	12	21.72	21.84	21.91								
16	16QAM	25	25	21.70	21.87	21.73	23	2						
16	16QAM	1	0	21.85	22.10	22.33								
16	16QAM	1	25	22.09	21.97	22.13								
16	16QAM	25	0	20.90	20.87	20.87								
16	16QAM	25	12	20.88	20.86	20.81	22	3						
16	16QAM	25	25	20.92	20.90	20.92								
16	16QAM	50	0	20.98	20.87	20.72								
Channel														
Frequency [MHz]														
5	QPSK	1	0	23.72	23.74	23.65			25	0				
5	QPSK	1	12	23.80	23.82	23.76								
5	QPSK	1	24	23.53	23.65	23.50								
5	QPSK	12	0	22.87	22.88	22.87								
5	QPSK	12	7	22.81	22.85	22.72	24	1						
5	QPSK	12	13	22.79	22.79	22.77								
5	QPSK	24	0	22.82	22.79	22.68								
5	QPSK	1	0	23.03	23.00	22.95								
5	16QAM	1	12	23.22	23.00	23.09	24	1						
5	16QAM	1	24	22.93	22.82	22.92								
5	16QAM	12	0	21.75	21.79	21.87								
5	16QAM	12	7	21.87	21.74	21.80								
5	16QAM	12	13	21.77	21.79	21.86	23	2						
5	16QAM	12	13	21.82	21.77	21.86								
5	16QAM	1	0	21.89	22.10	22.10								
5	16QAM	1	12	22.16	21.99	22.10								
5	16QAM	1	24	22.14	21.87	22.01	23	2						
5	16QAM	12	0	20.93	20.90	20.87								
5	16QAM	12	7	20.95	20.71	20.84								
5	16QAM	12	13	20.84	20.91	21.00								
Channel														
Frequency [MHz]														
3	QPSK	1	0	23.77	23.77	23.82	25	0						
3	QPSK	1	8	23.80	23.80	23.68								
3	QPSK	1	14	23.56	23.60	23.59								
3	QPSK	8	0	22.88	22.86	22.82								
3	QPSK	8	4	22.79	22.76	22.80	24	1						
3	QPSK	8	7	22.82	22.79	22.82								
3	QPSK	15	0	22.75	22.83	22.66								
3	16QAM	1	0	23.09	23.11	23.01								
3	16QAM	1	8	23.27	23.09	23.09	24	1						
3	16QAM	1	14	23.63	23.61	22.89								
3	16QAM	8	0	21.75	21.75	21.83								
3	16QAM	8	4	21.85	21.72	21.89								
3	16QAM	15	0	21.94	21.82	21.80	23	2						
3	16QAM	1	0	21.86	22.10	22.23								
3	16QAM	1	8	22.15	22.09	22.23								
3	16QAM	1	14	22.02	21.88	22.05								
3	16QAM	8	0	20.84	20.80	20.73	22	3						
3	16QAM	8	4	20.80	20.85	20.75								
3	16QAM	8	7	20.97	20.90	20.93								
3	16QAM	15	0	20.93	20.90	20.76								
Channel														
Frequency [MHz]														
1.4	QPSK	1	0	23.75	23.71	23.80	25	0						
1.4	QPSK	1	3	23.79	23.80	23.71								
1.4	QPSK	1	6	23.52	23.57	23.61								
1.4	QPSK	3	0	23.64	23.76	23.64								
1.4	QPSK	3	1	23.80	23.83	23.53	24	1						
1.4	QPSK	3	3	23.81	23.64	23.83								
1.4	QPSK	6	0	22.80	22.78	22.75								
1.4	16QAM	1	0	22.98	23.13	23.04								
1.4	16QAM	1	6	22.90	22.87	22.93	24	1						
1.4	16QAM	3	0	22.88	22.79	22.89								
1.4	16QAM	3	3	22.79	22.73	22.60								
1.4	16QAM	1	0	21.87	22.12	22.28								
1.4	16QAM	1	3	22.19	21.87	22.08	23	2						
1.4	16QAM	1	6	22.05	21.97	22.06								
1.4	16QAM	3	0	21.93	21.80	21.86								
1.4	16QAM	3	1	21.89	21.71	21.80								
1.4	16QAM	3	3	20.92	21.86	22.01	22	3						
1.4	16QAM	6	0	20.91	20.90	20.76								

Band 26_Ant_1 (Default)										
BW [MHz]	Modulation	RB Size	RB Offset	Power [mW]	Power [mW]	Power [mW]	Time-up [min]	MFR [dB]		
Channel	Frequency [MHz]	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
Frequency (MHz)										
15	QPSK	1	0	24.21	24.22	24.12	25	0		
15	QPSK	1	37	24.04	24.13	24.03				
15	QPSK	1	74	23.95	24.05	23.95	24	1		
15	QPSK	36	0	23.23	23.28	23.16				
15	QPSK	36	36	23.16	23.20	23.09	24	1		
15	QPSK	75	0	23.14	23.16	23.08				
15	QPSK	75	36	22.14	22.21	22.08	24	1		
16	QPSK	1	37	23.61	23.62	23.51				
15	QPSK	1	74	23.60	23.65	23.51	24	1		
15	QPSK	36	0	22.14	22.21	22.08				
15	QPSK	36	36	22.05	22.12	22.01	23	2		
15	QPSK	75	0	22.24	22.19	22.08				
15	QPSK	75	36	21.25	21.32	21.21	23	2		
15	QPSK	1	0	22.57	22.10	22.34				
15	QPSK	1	37	22.58	22.51	22.37	22	2		
15	QPSK	1	74	22.51	22.53	22.21				
15	QPSK	36	0	21.07	21.13	21.13	22	2		
15	QPSK	36	36	21.07	21.09	21.09				
15	QPSK	75	0	21.09	21.11	21.04	22	2		
15	QPSK	75	36	21.32	21.07	21.07				
Frequency (MHz)										
				819	831.5	848	Time-up [min]	MFR [dB]		
10	QPSK	1	0	23.79	23.72	23.65	25	0		
10	QPSK	1	26	24.01	24.03	23.84				
10	QPSK	1	53	24.01	24.04	23.84	24	1		
10	QPSK	25	0	22.98	23.01	22.93				
10	QPSK	25	26	22.98	23.03	22.93	24	1		
10	QPSK	50	0	23.01	23.03	22.92				
10	QPSK	50	26	23.14	23.00	22.86	23	2		
10	QPSK	75	0	22.27	22.25	22.17				
10	QPSK	75	26	22.22	22.13	22.09	23	2		
10	QPSK	1	49	23.30	23.58	23.07				
10	QPSK	25	0	22.14	22.16	22.08	23	2		
10	QPSK	25	12	22.06	21.95	21.95				
10	QPSK	25	26	22.08	22.08	22.08	22	3		
10	QPSK	25	49	22.08	22.08	22.08				
10	QPSK	1	0	22.20	22.22	22.22	22	3		
10	QPSK	1	26	22.43	22.22	22.22				
10	QPSK	1	53	21.96	22.01	21.96	22	3		
10	QPSK	25	0	21.03	20.93	20.93				
10	QPSK	25	12	21.12	20.97	20.97	22	3		
10	QPSK	25	26	21.00	20.91	20.91				
10	QPSK	50	0	21.06	21.00	21.02	22	3		
10	QPSK	50	26	21.06	21.00	21.02				
Frequency (MHz)										
				816.5	831.5	846.5	Time-up [min]	MFR [dB]		
5	QPSK	1	0	23.72	23.64	23.56	25	0		
5	QPSK	1	12	22.92	22.94	22.71				
5	QPSK	1	25	23.00	23.01	22.83	24	1		
5	QPSK	12	0	22.86	22.86	22.86				
5	QPSK	12	7	23.01	22.99	22.85	24	1		
5	QPSK	12	14	23.01	23.01	22.85				
5	QPSK	26	0	23.03	23.02	22.86	23	2		
5	QPSK	1	0	23.18	23.08	23.07				
5	QPSK	1	12	23.07	23.08	22.87	24	1		
5	QPSK	1	24	23.26	23.44	22.86				
5	QPSK	1	37	23.07	23.01	22.85	23	2		
5	QPSK	12	0	22.03	21.85	21.83				
5	QPSK	12	13	22.00	21.87	21.85	23	2		
5	QPSK	12	26	22.03	21.83	21.83				
5	QPSK	1	0	22.07	22.12	22.12	23	2		
5	QPSK	1	12	22.28	22.18	22.08				
5	QPSK	1	25	22.07	22.08	21.83	22	3		
5	QPSK	12	0	21.01	20.98	21.04				
5	QPSK	12	7	21.10	20.95	20.92	22	3		
5	QPSK	12	14	21.02	20.95	20.95				
5	QPSK	26	0	20.99	20.96	20.97	22	3		
5	QPSK	26	13	20.99	20.96	20.97				
Frequency (MHz)										
				816.5	831.5	846.5	Time-up [min]	MFR [dB]		
3	QPSK	1	0	23.72	23.67	23.63	25	0		
3	QPSK	1	8	23.97	23.94	23.83				
3	QPSK	1	16	23.82	23.81	23.80	24	1		
3	QPSK	8	0	22.85	22.89	22.80				
3	QPSK	8	8	23.08	23.04	22.74	24	1		
3	QPSK	8	16	22.98	22.92	22.82				
3	QPSK	16	0	22.99	22.96	22.92	24	1		
3	QPSK	1	0	23.21	23.08	23.04				
3	QPSK	1	8	23.19	23.10	23.05	23	2		
3	QPSK	1	16	23.23	23.23	23.09				
3	QPSK	8	0	21.83	22.00	22.02	23	2		
3	QPSK	8	8	21.99	21.90	21.85				
3	QPSK	8	16	21.93	22.01	21.98	23	2		
3	QPSK	16	0	21.90	21.95	21.91				
3	QPSK	1	8	22.34	22.08	22.18	22	2		
3	QPSK	1	16	22.30	22.07	22.07				
3	QPSK	8	8	21.01	20.84	20.88	22	3		
3	QPSK	8	16	21.03	20.88	20.86				
3	QPSK	16	0	20.92	20.83	20.83	22	3		
3	QPSK	16	8	21.02	20.94	20.94				
Channel										
				26697	26695	26703	Time-up [min]	MFR [dB]		
Frequency (MHz)										
1.4	QPSK	1	0	23.69	23.65	23.59	25	0		
1.4	QPSK	1	3	23.90	24.01	23.82				
1.4	QPSK	1	6	23.77	23.77	23.77	24	1		
1.4	QPSK	1	9	23.76	23.68	23.63				
1.4	QPSK	1	12	24.00	23.81	23.76	24	1		
1.4	QPSK	8	0	23.68	23.68	23.68				
1.4	QPSK	8	6	23.08	22.95	22.92	24	1		
1.4	QPSK	1	0	23.17	23.10	23.08				
1.4	QPSK	1	3	23.04	23.04	23.04	24	1		
1.4	QPSK	1	6	23.19	23.44	23.03				
1.4	QPSK	1	9	22.83	23.05	22.92	23	2		
1.4	QPSK	8	0	22.93	22.82	22.82				
1.4	QPSK	1	3	23.06	22.98	22.94	23	2		
1.4	QPSK	8	6	22.10	21.99	21.94				
1.4	QPSK	1	0	22.18	22.18	22.18	22	3		
1.4	QPSK	1	3	22.18	22.08	22.07				
1.4	QPSK	1	6	22.22	22.16	22.02	22	3		
1.4	QPSK	1	9	22.19	22.20	22.16				



Band 38_Ant 3 (Default)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	22.03	21.81	21.68	23	0		
20	QPSK	1	49	22.08	22.08	21.95				
20	QPSK	1	98	21.97	21.15	22.02				
20	QPSK	50	0	21.09	20.97	20.82				
20	QPSK	50	24	21.11	21.12	20.91	22	1		
20	QPSK	50	50	21.07	21.08	20.99				
20	16QAM	100	0	21.03	21.08	21.00				
20	16QAM	1	0	21.80	21.20	20.83				
20	16QAM	1	49	21.26	21.27	21.11	22	1		
20	16QAM	1	99	21.24	21.25	21.22				
20	16QAM	50	0	20.95	19.94	19.90				
20	16QAM	50	24	20.90	19.96	19.98				
20	16QAM	50	50	20.12	20.08	20.03	21	2		
20	16QAM	100	0	20.15	19.96	19.96				
20	64QAM	1	0	20.10	20.00	19.90				
20	64QAM	1	49	20.28	20.00	20.24				
20	64QAM	1	99	20.24	20.21	19.89	21	2		
20	64QAM	50	0	19.90	18.94	18.89				
20	64QAM	50	24	19.18	18.91	18.94				
20	64QAM	50	50	19.12	18.99	19.00				
20	64QAM	100	0	19.11	18.92	18.98	20	3		
Channel										
Frequency (MHz)				37850	38000	38175	Tune-up limit (dBm)	MPE (dB)		
15	QPSK	1	0	21.75	21.55	21.42	23	0		
15	QPSK	1	37	21.62	21.85	21.82				
15	QPSK	1	74	21.91	21.92	21.86				
15	QPSK	36	0	21.08	20.87	20.86				
15	QPSK	36	36	21.08	20.87	21.03	22	1		
15	QPSK	36	39	21.09	21.03	21.03				
15	QPSK	75	0	21.14	20.94	21.04				
15	16QAM	1	0	21.24	21.09	21.36				
15	16QAM	1	37	21.37	21.16	21.14	22	1		
15	16QAM	1	74	21.83	21.15	21.24				
15	16QAM	36	0	20.14	19.80	19.83				
15	16QAM	36	39	20.19	20.05	20.12				
15	16QAM	75	0	20.12	20.11	20.07	21	2		
15	16QAM	75	0	20.13	19.93	20.06				
15	64QAM	1	0	20.22	19.91	20.08				
15	64QAM	1	37	20.30	19.90	20.07				
15	64QAM	1	74	20.25	19.90	20.09	21	2		
15	64QAM	36	0	19.98	18.92	19.00				
15	64QAM	36	20	19.10	18.04	18.08				
15	64QAM	36	39	19.98	18.96	19.04				
15	64QAM	75	0	19.14	18.99	19.03	20	3		
Channel										
Frequency (MHz)				37850	38000	38150	Tune-up limit (dBm)	MPE (dB)		
10	QPSK	1	0	22.09	21.89	22.08	23	0		
10	QPSK	1	25	22.00	22.00	21.97				
10	QPSK	1	49	21.85	22.14	21.93				
10	QPSK	25	0	21.16	21.00	21.08				
10	QPSK	25	12	21.20	21.04	20.99	22	1		
10	QPSK	25	25	21.30	21.07	21.10				
10	QPSK	50	0	21.01	21.10	21.06				
10	16QAM	1	0	21.27	21.59	21.41				
10	16QAM	1	25	21.87	21.32	21.60	22	1		
10	16QAM	1	49	21.51	21.38	21.17				
10	16QAM	25	0	20.19	20.12	20.04				
10	16QAM	25	12	20.12	20.04	20.16				
10	16QAM	25	25	20.03	20.21	20.11	21	2		
10	16QAM	50	0	20.26	20.03	20.08				
10	64QAM	1	0	20.48	20.30	20.68				
10	64QAM	1	25	20.45	20.16	20.29				
10	64QAM	1	49	20.13	20.36	20.48	20	3		
10	64QAM	25	0	19.92	19.10	19.16				
10	64QAM	25	12	19.30	19.13	19.08				
10	64QAM	25	25	19.24	18.99	19.10				
10	64QAM	50	0	19.19	19.11	19.01	20			
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	22.10	22.09	22.04	23	0		
5	QPSK	1	12	22.13	22.02	21.92				
5	QPSK	1	24	21.99	22.07	21.99				
5	QPSK	12	0	21.08	21.08	21.11				
5	QPSK	12	7	21.25	21.12	21.10	22	1		
5	QPSK	12	13	21.18	21.14	21.11				
5	QPSK	25	0	21.24	21.04	21.13				
5	16QAM	1	0	21.81	21.43	21.67				
5	16QAM	1	12	21.42	21.26	21.53	22	1		
5	16QAM	1	24	21.27	21.20	21.33				
5	16QAM	12	0	20.18	20.15	20.11				
5	16QAM	12	7	20.24	20.19	20.23				
5	16QAM	12	13	20.28	20.19	20.13	21	2		
5	16QAM	25	0	20.32	20.08	20.16				
5	64QAM	1	0	20.35	20.20	20.39				
5	64QAM	1	12	20.27	20.32	20.03				
5	64QAM	1	24	20.04	20.41	20.20	21	2		
5	64QAM	12	0	19.19	19.11	19.10				
5	64QAM	12	7	19.27	19.17	19.21				
5	64QAM	12	13	19.10	19.02	19.19				
5	64QAM	25	0	19.18	19.07	19.11	20	3		
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	22.05	21.85	22.03	23	0		
5	QPSK	1	12	22.08	22.05	21.93				
5	QPSK	1	24	21.92	22.01	21.92				
5	QPSK	12	0	21.70	21.50	21.74				
5	QPSK	12	7	22.48	22.74	22.83	23.5	1		
5	QPSK	12	13	22.60	22.60	22.74				
5	QPSK	25	0	22.06	22.61	22.72				
5	16QAM	1	0	23.06	22.86	22.97				
5	16QAM	1	12	23.05	23.01	22.77	23.5	1		
5	16QAM	1	24	22.98	23.07	22.76				
5	16QAM	12	0	21.75	21.74	21.82				
5	16QAM	12	7	21.75	21.84	21.72				
5	16QAM	12	13	21.77	21.72	21.89	22.5	2		
5	16QAM	25	0	21.68	21.60	21.79				
5	64QAM	1	0	22.75	21.77	21.73				
5	64QAM	1	12	21.80	21.86	21.85				
5	64QAM	1	24	22.77	22.70	21.76	22.5	2		
5	64QAM	12	0	20.66	20.65	20.75				
5	64QAM	12	7	20.61	20.80	20.86				
5	64QAM	12	13	20.70	20.70	20.86				
5	64QAM	25	0	20.70	20.60	20.72	21.5	3		
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	22.05	21.85	22.03	23	0		
5	QPSK	1	12	22.08	22.05	21.93				
5	QPSK	1	24	21.92	22.01	21.92				
5	QPSK	12	0	21.70	21.50	21.74				
5	QPSK	12	7	22.48	22.74	22.83	23.5	1		
5	QPSK	12	13	22.60	22.60	22.74				
5	QPSK	25	0	22.06	22.61	22.72				
5	16QAM	1	0	23.06	22.86	22.97				
5	16QAM	1	12	23.05	23.01	22.77	23.5	1		
5	16QAM	1	24	22.98	23.07	22.76				
5	16QAM	12	0	21.75	21.74	21.82				
5	16QAM	12	7	21.75	21.84	21.72				
5	16QAM	12	13	21.77	21.72	21.89	22.5	2		
5	16QAM	25	0	21.68	21.60	21.79				
5	64QAM	1	0	22.75	21.77	21.73				
5	64QAM	1	12	21.80	21.86	21.85				
5	64QAM	1	24	22.77	22.70	21.76	22.5	2		
5	64QAM	12	0	20.66	20.65	20.75				
5	64QAM	12	7	20.61	20.80	20.86				
5	64QAM	12	13	20.70	20.70	20.86				
5	64QAM	25	0	20.70	20.60	20.72	21.5	3		
Channel										
Frequency (MHz)				37775	38000	38225	Tune-up limit (dBm)	MPE (dB)		
5	QPSK	1	0	22.05	21.85	22.03	23	0		
5	QPSK	1	12	22.08	22.05	21.93				
5	QPSK	1	24	21.92	22.01	21.92				
5	QPSK	12	0	21.70	21.50	21.74				
5	QPSK	12	7	22.48	22.74	22.83	23.5	1		
5	QPSK	12	13	22.60	22.60	22.74				
5	QPSK	25	0	22.06	22.61	22.72				
5	16QAM	1	0	23.06	22.86	22.97				
5	16QAM	1	12	23.05	23.01	22.77	23.5	1		
5	16QAM	1	24	22.98	23.07	22.76				
5	16QAM	12	0	21.75	21.74	21.82				
5	16QAM	12	7	21.75	21.84	21.72				
5	16QAM	12	13	21.77	21.72	21.89	22.5	2		
5	16QAM	25	0	21.68	21.60	21.79				
5	64QAM	1	0	22.75	21.77	21.73				
5	64QAM	1	12	21.80	21.86	21.85				
5	64QAM	1	24	22.77	22.70	21.76	22.5	2		
5	64QAM	12	0	20.66	20.65	20.75				
5	64QAM	12	7	20.61	20.80	20.86				
5	64QAM	12	13	20.70	20.70	20.86				
5	64QAM	25	0	20.70	20.60	20.72	21.5	3		



Band 41 HPUE_Ant 3 (Default)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power Low-High Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPE (dB)	
Channel											
Frequency (MHz)				39750	40185	40600	41065	41490			
20	QPSK	1	0	23.77	23.61	23.63	23.67	23.61	24.5	0	
20	QPSK	1	49	23.85	23.74	23.59	23.66	23.60			
20	QPSK	1	99	23.86	23.61	23.59	23.73	23.60			
20	QPSK	50	0	22.81	22.77	22.72	22.81	22.54			
20	QPSK	50	24	22.83	22.87	22.86	22.67	22.84	23.5	1	
20	QPSK	50	50	22.82	22.81	22.80	22.87	22.54			
20	QPSK	100	0	22.83	22.78	22.82	22.88	22.45			
20	16QAM	1	0	23.55	23.58	22.81	22.72	22.96			
20	16QAM	1	49	23.21	22.56	23.59	22.86	22.74	23.5	1	
20	16QAM	1	99	23.11	23.21	22.85	22.89	22.91			
20	16QAM	50	0	21.92	21.78	21.84	21.74	21.86			
20	16QAM	50	24	22.00	21.86	21.72	21.78	21.54			
20	16QAM	50	50	21.89	21.91	21.63	21.74	21.81	22.5	2	
20	16QAM	100	0	21.89	21.78	21.72	21.74	21.44			
20	16QAM	100	0	21.81	21.72	21.73	21.73	21.70			
20	64QAM	1	49	22.04	21.83	21.80	21.74	21.92			
20	64QAM	1	99	22.02	22.01	21.69	21.59	21.80	22.5	2	
20	64QAM	50	0	20.98	20.76	20.62	20.69	20.57			
20	64QAM	50	24	20.91	20.78	20.58	20.70	20.51			
20	64QAM	50	50	20.92	20.76	20.70	20.63	20.52			
20	64QAM	100	0	20.91	20.76	20.67	20.73	20.56	21.5	3	
Channel				39725	40173	40600	41068	41515			
Frequency (MHz)				26.03	26.63	26.88	28.02	28.80			
15	QPSK	1	0	23.70	23.46	23.75	23.53	23.50	24.50	0	
15	QPSK	1	37	23.62	23.45	23.62	23.71	23.48			
15	QPSK	1	74	23.55	23.60	23.63	23.54	23.82			
15	QPSK	36	0	22.80	22.86	22.74	22.74	22.70			
15	QPSK	36	20	22.80	22.77	22.86	22.86	22.69	23.5	1	
15	QPSK	36	36	22.84	22.72	22.77	22.71	22.68			
15	QPSK	75	0	22.73	22.71	22.81	22.77	22.50			
15	16QAM	1	37	23.03	22.86	22.88	22.78	22.76			
15	16QAM	1	74	23.19	22.85	23.14	22.87	22.94	23.5	1	
15	16QAM	1	74	23.08	23.07	23.01	23.19	22.78			
15	16QAM	36	0	21.86	21.63	21.86	21.72	21.60			
15	16QAM	36	20	21.86	21.77	21.89	21.76	21.68			
15	16QAM	75	0	21.81	21.74	21.84	21.78	21.69	22.5	2	
15	16QAM	75	0	21.74	21.70	21.81	21.74	21.66			
15	64QAM	1	0	21.67	21.71	21.75	21.64	21.72			
15	64QAM	1	37	21.60	21.61	22.00	21.61	21.46			
15	64QAM	1	74	22.00	21.91	22.00	21.98	21.58	22.5	2	
15	64QAM	36	0	20.97	20.99	20.88	20.70	20.59			
15	64QAM	36	20	20.84	20.71	20.83	20.70	20.59			
15	64QAM	36	36	20.82	20.94	20.84	20.95	20.56			
15	64QAM	75	0	20.82	20.74	20.85	20.73	20.60	21.5	3	
Channel				39700	40160	40600	41080	41510			
Frequency (MHz)				25.91	26.47	26.63	27.79	28.65			
10	QPSK	1	0	23.70	23.47	23.68	23.60	23.52	24.50	0	
10	QPSK	1	25	23.81	23.59	23.74	23.60	23.47			
10	QPSK	1	49	23.63	23.58	23.64	23.51	22.77			
10	QPSK	25	0	22.70	22.65	22.78	22.69	22.60			
10	QPSK	25	12	22.82	22.72	22.89	22.86	22.86	23.5	1	
10	QPSK	25	25	22.80	22.68	22.77	22.73	22.58			
10	QPSK	50	0	22.70	22.68	22.68	22.74	22.61			
10	16QAM	1	0	22.98	22.73	22.95	22.84	22.67			
10	16QAM	1	25	22.97	22.93	22.59	22.85	22.58	23.5	1	
10	16QAM	1	49	22.97	23.19	22.85	23.17	22.80			
10	16QAM	25	0	21.89	21.67	21.89	21.67	21.60			
10	16QAM	25	12	21.91	21.74	21.85	21.84	21.80			
10	16QAM	50	0	21.81	21.79	21.86	21.87	21.48	22.5	2	
10	16QAM	50	0	21.77	21.73	21.79	21.82	21.65			
10	64QAM	1	0	21.60	21.65	21.70	21.69	21.60			
10	64QAM	1	25	21.70	21.75	22.02	21.70	21.69			
10	64QAM	1	49	21.84	21.86	22.01	21.84	21.61	22.5	2	
10	64QAM	25	0	20.90	20.71	20.95	20.74	20.54			
10	64QAM	25	12	20.84	20.77	20.87	20.71	20.61			
10	64QAM	25	25	20.88	20.93	20.87	20.89	20.70			
10	64QAM	50	0	20.81	20.71	20.80	20.74	20.60	21.5	3	
Channel				39675	40148	40600	41083	41565			
Frequency (MHz)				25.84	26.40	26.60	27.63	28.73			
5	QPSK	1	0	23.67	23.46	23.73	23.53	23.56	24.50	0	
5	QPSK	1	12	23.78	23.65	23.84	23.67	23.45			
5	QPSK	1	24	23.67	23.58	23.56	23.48	23.73			
5	QPSK	12	0	22.73	22.68	22.75	22.62	22.59			
5	QPSK	12	7	22.79	22.78	22.85	22.85	22.87	23.5	1	
5	QPSK	12	13	22.87	22.75	22.86	22.77	22.62			
5	QPSK	25	0	22.75	22.76	22.72	22.77	22.77			
5	16QAM	1	0	22.83	22.75	22.81	22.82	22.74			
5	16QAM	1	12	23.18	22.83	23.00	22.85	23.04	23.5	1	
5	16QAM	1	24	23.05	23.26	23.16	23.11	22.79			
5	16QAM	12	0	21.81	21.72	21.86	21.75	21.58			
5	16QAM	12	7	21.97	21.85	21.85	21.79	21.62			
5	16QAM	12	13	21.84	21.83	21.79	21.76	21.58	22.5	2	
5	16QAM	25	0	21.75	21.81	21.83	21.80	21.65			
5	64QAM	1	0	21.75	21.80	21.78	21.68	21.67			
5	64QAM	1	12	21.83	21.71	21.89	21.71	21.73			
5	64QAM	1	24	21.65	21.86	21.58	21.60	21.65	22.5	2	
5	64QAM	12	0	20.88	20.70	20.97	20.75	20.53			
5	64QAM	12	7	20.85	20.71	20.85	20.74	20.67			
5	64QAM	12	13	20.91	20.86	20.84	20.86	20.76			
5	64QAM	25	0	20.89	20.70	20.87	20.72	20.65	21.5	3	
Channel				39725	40173	40600	41085	41515			
Frequency (MHz)				26.03	26.63	26.88	28.02	28.80			

Band 41_Ant 4 (Default)														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-Mid Ch / Freq	Power Low-High Ch / Freq	Power High-Mid Ch / Freq	Power High Ch / Freq	Tune-up Int. (dBm)	MPE (dB)				
Channel														
				39750	40185	40600	41085	41490						
Frequency (MHz)				25.95	26.61	27.00	28.02	28.80						
20	QPSK	1	0	23.48	23.43	23.48	23.26	23.32	24	0				
20	QPSK	1	49	23.88	23.47	23.53	23.55	23.53						
20	QPSK	1	99	22.81	22.81	22.70	22.59	22.63						
20	QPSK	50	0	22.86	22.54	22.65	22.57	22.64						
20	QPSK	50	24	22.89	22.63	22.73	22.71	22.84	23	1				
20	16QAM	1	0	22.48	22.39	22.52	22.30	22.25	24	2				
20	16QAM	1	49	22.81	22.57	22.61	22.73	22.82						
20	16QAM	1	99	22.52	22.52	22.52	22.52	22.45						
20	16QAM	50	0	21.66	21.56	21.54	21.51	21.41						
20	16QAM	50	24	21.68	21.60	21.60	21.71	21.59	22	2				
20	64QAM	1	0	21.83	21.82	21.82	21.82	21.83	24	3				
20	64QAM	1	49	21.83	21.83	21.83	21.83	21.83						
20	64QAM	1	99	21.50	21.41	21.52	21.34	21.58						
20	64QAM	50	0	20.38	20.38	20.38	20.38	20.43						
20	64QAM	50	24	20.68	20.60	20.64	20.71	20.93	21	3				
20	64QAM	50	50	20.63	20.61	20.66	20.59	20.60	24	3				
20	64QAM	100	0	20.29	20.29	20.29	20.29	20.31						
Channel				39750	40175	40600	41068	41516						
Frequency (MHz)				25.95	26.53	27.00	27.87	28.75						
5	QPSK	1	0	23.48	23.43	23.48	23.26	23.32	24	0				
5	QPSK	1	37	23.88	23.47	23.58	23.60	23.59						
5	QPSK	1	74	23.44	23.49	23.60	23.35	23.30						
5	QPSK	1	111	22.84	22.55	22.57	22.51	22.48						
5	QPSK	36	36	22.66	22.56	22.65	22.67	22.59	24	3				
5	QPSK	36	72	22.61	22.58	22.65	22.62	22.61						
5	QPSK	36	108	22.48	22.58	22.60	22.60	22.52						
5	QPSK	36	144	22.55	22.49	22.46	22.41	22.18						
5	16QAM	1	0	22.55	22.48	22.55	22.36	22.39	24	3				
5	16QAM	1	37	22.86	22.57	22.55	22.68	22.69						
5	16QAM	1	74	22.55	22.48	22.53	22.48	22.45						
5	16QAM	36	36	21.65	21.55	21.56	21.58	21.48						
5	16QAM	36	72	21.64	21.64	21.64	21.64	21.67	24	3				
5	16QAM	36	108	21.58	21.58	21.58	21.58	21.58						
5	16QAM	36	144	21.47	21.47	21.47	21.47	21.47						
5	16QAM	36	180	21.41	21.47	21.37	21.38	21.47						
5	16QAM	1	74	21.36	21.39	21.53	21.61	21.44	24	3				
5	64QAM	1	0	20.61	20.55	20.55	20.55	20.55						
5	64QAM	36	36	20.63	20.60	20.65	20.72	20.63						
5	64QAM	36	72	20.62	20.61	20.62	20.65	20.68						
5	64QAM	36	108	20.62	20.58	20.64	20.64	20.67	24	3				
5	64QAM	36	144	20.58	20.58	20.58	20.58	20.58						
Channel				39750	40160	40600	41060	41540						
Frequency (MHz)				25.95	26.63	27.00	28.02	28.80						
10	QPSK	1	0	23.48	23.43	23.52	23.43	23.43	24	0				
10	QPSK	1	25	23.79	22.67	22.69	23.62	23.70						
10	QPSK	1	50	23.79	22.67	22.69	23.62	23.70						
10	QPSK	25	0	22.76	22.64	22.70	22.72	22.65						
10	QPSK	25	12	22.77	22.67	22.70	22.84	22.74	24	3				
10	QPSK	25	25	22.76	22.69	22.70	22.70	22.64						
10	QPSK	25	50	22.73	22.69	22.75	22.75	22.65						
10	16QAM	1	0	22.79	22.67	22.78	22.64	22.49						
10	16QAM	1	25	22.74	22.68	22.70	22.78	22.68	24	3				
10	16QAM	1	50	22.67	22.62	22.74	22.59	22.51						
10	16QAM	25	0	21.74	21.69	21.74	21.72	21.67						
10	16QAM	25	12	21.68	21.71	21.71	21.71	21.71						
10	16QAM	25	25	21.62	21.74	21.76	21.78	21.84	24	3				
10	16QAM	50	0	21.74	21.71	21.73	21.73	21.69						
10	64QAM	1	0	21.73	21.61	21.73	21.61	21.61						
10	64QAM	1	25	21.74	21.66	21.69	21.65	21.67						
10	64QAM	1	49	21.67	21.56	21.60	21.49	21.44	24	3				
10	64QAM	25	0	20.78	20.66	20.70	20.75	20.81						
10	64QAM	25	12	20.78	20.68	20.78	20.81	20.74						
10	64QAM	50	0	20.77	20.68	20.74	20.73	20.65						
Channel				39675	40148	40600	41053	41568						
Frequency (MHz)				25.95	26.63	27.00	28.02	28.80						
5	QPSK	1	0	23.71	23.60	23.61	23.63	23.63	24	0				
5	QPSK	1	12	23.68	23.63	23.65	23.63	23.71						
5	QPSK	1	24	23.60	23.54	23.64	23.64	23.62						
5	QPSK	12	0	22.75	22.67	22.70	22.80	22.68						
5	QPSK	12	7	22.76	22.68	22.76	22.83	22.74	24	3				
5	QPSK	12	14	22.76	22.68	22.76	22.78	22.67						
5	QPSK	36	36	22.75	22.67	22.67	22.78	22.71						
5	16QAM	1	0	22.74	22.57	22.58	22.75	22.46						
5	16QAM	1	12	22.87	22.77	22.77	22.78	22.78	24	3				
5	16QAM	1	24	22.71	22.81	22.63	22.65	22.61						
5	16QAM	12	0	21.74	21.62	21.62	21.86	21.64						
5	16QAM	12	6	21.77	21.72	21.72	21.75	21.78						
5	16QAM	12	18	21.75	21.60	21.62	21.85	21.73	24	3				
5	16QAM	25	0	21.71	21.68	21.77	21.81	21.72						
5	64QAM	1	0	21.61	21.51	21.63	21.68	21.63						
5	64QAM	1	12	21.70	21.63	21.60	21.89	21.75						
5	64QAM	12	7	21.68	21.64	21.64	21.78	21.70	24	3				
5	64QAM	12	14	20.74	20.64	20.64	20.75	20.66						
5	64QAM	12	7	20.76	20.75	20.74	20.72	20.68						
5	64QAM	12	14	20.69	20.67	20.73	20.78	20.70						

Reduced Power for receiver on

GSM850_Ant 0		Burst Average Power (dBm)			Tune-up Limit	Frame-Average Power (dBm)			Tune-up Limit
TX Channel		128	169	251	Limit (dBm)	128	169	251	Limit (dBm)
Frequency (MHz)		824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
DTM Multi-slot class 9	GSM 1 Tx slot	30.61	30.90	30.72	32.00	21.61	21.90	21.72	23.00
	GPRS 1 Tx slot	30.61	31.24	31.13	32.00	21.61	22.24	22.13	23.00
	GPRS 2 Tx slots	28.86	28.69	28.50	30.00	22.86	22.69	22.50	24.00
	GPRS 3 Tx slots	27.52	27.70	27.62	29.00	23.26	23.44	23.36	24.74
	GPRS 4 Tx slots	25.87	25.72	26.22	27.50	22.87	22.72	23.22	24.50
	EDGE(GMSK 1 Tx slot)	30.66	30.77	30.75	32.00	21.66	21.77	21.75	23.00
	EDGE(GMSK 2 Tx slots)	28.89	29.02	28.82	30.00	22.89	23.02	22.82	24.00
	EDGE(GMSK 3 Tx slots)	27.62	27.65	27.45	29.00	23.36	23.39	23.19	24.74
	EDGE(GMSK 4 Tx slots)	25.76	25.88	25.73	27.50	22.76	22.88	22.73	24.50
	EDGE 1 Tx slot	26.73	26.83	26.93	28.00	17.73	17.83	17.93	19.00
DTM Multi-slot class 11	EDGE 2 Tx slots	24.08	24.11	24.28	25.00	18.08	18.11	18.28	19.50
	EDGE 3 Tx slots	22.95	22.86	23.02	24.50	18.69	18.60	18.76	20.24
	EDGE 4 Tx slots	22.12	22.39	22.47	23.00	19.12	19.39	19.47	21.00
	GSM 1 Tx slot	28.76	28.69	28.41	30.00	22.77	22.65	22.35	23.98
	GPRS 1 Tx slot	28.81	28.66	28.34	30.00				
	GPRS 1 Tx slot	28.80	28.69	28.48	30.00	22.74	22.61	22.39	23.98
	GPRS 1 Tx slot	28.73	28.58	28.34	30.00				
	GSM 1 Tx slot	27.36	27.56	27.47	29.00	23.03	23.31	23.23	24.74
	GPRS 2 Tx slots	27.26	27.58	27.50	29.00				
	GSM 1 Tx slot	28.89	29.10	28.88	30.00	21.02	21.18	21.07	22.29
DTM Multi-slot class 9	EDGE 1 Tx slot	23.75	23.73	24.01	25.00				
	GSM 1 Tx slot	28.98	29.12	28.89	30.00	21.11	21.21	21.09	22.29
	EDGE 1 Tx slot	23.84	23.81	24.06	25.00				
DTM Multi-slot class 11	GSM 1 Tx slot	27.67	27.78	27.44	29.00	20.75	20.77	20.64	22.30
	EDGE 2 Tx slots	22.63	22.51	22.71	24.50				

GSM850_Ant 1	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)
	TX Channel	128	169	251		128	169	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		32.62	32.29	32.21	33.50	23.62	23.29	23.21	24.50	
GPRS 1 Tx slot		32.67	32.33	32.27	33.50	23.67	23.33	23.27	24.50	
GPRS 2 Tx slots		30.36	29.99	30.74	31.50	24.36	23.99	24.74	25.50	
GPRS 3 Tx slots		28.83	29.41	29.30	30.50	24.57	25.15	25.04	26.24	
GPRS 4 Tx slots		27.27	27.77	27.67	29.00	24.27	24.77	24.67	26.00	
EDGE(GMSK 1 Tx slot)		32.51	32.31	32.27	33.50	23.51	23.31	23.27	24.50	
EDGE(GMSK 2 Tx slots)		30.26	30.03	30.77	31.50	24.26	24.03	24.77	25.50	
EDGE(GMSK 3 Tx slots)		28.83	29.40	29.30	30.50	24.57	25.14	25.04	26.24	
EDGE(GMSK 4 Tx slots)		27.30	27.79	27.67	29.00	24.30	24.79	24.67	26.00	
EDGE 1 Tx slot		27.16	26.99	27.00	28.00	18.16	17.99	18.00	19.00	
EDGE 2 Tx slots		24.33	24.25	24.37	25.50	18.33	18.25	18.37	19.50	
EDGE 3 Tx slots		23.12	22.95	23.11	24.50	18.86	18.69	18.85	20.24	
EDGE 4 Tx slots		22.39	22.32	22.29	24.00	19.39	19.32	19.29	21.00	
DTM Multi-slot class 5	GSM 1 Tx slot	30.24	29.93	30.65	31.50	24.28	23.91	24.68	25.48	
	GPRS 1 Tx slot	30.36	29.94	30.76	31.50					
DTM Multi-slot class 9	GSM 1 Tx slot	30.37	29.94	30.74	31.50	24.30	23.89	24.65	25.48	
	GPRS 1 Tx slot	30.27	29.89	30.61	31.50					
DTM Multi-slot class 11	GSM 1 Tx slot	28.58	29.31	29.16	30.50	24.37	24.99	24.91	26.24	
	GPRS 2 Tx slots	28.66	29.22	29.17	30.50					
DTM Multi-slot class 5	GSM 1 Tx slot	30.33	30.10	30.81	31.50	22.20	22.00	22.60	23.44	
	EDGE 1 Tx slot	23.85	23.90	23.99	25.00					
DTM Multi-slot class 9	GSM 1 Tx slot	30.32	30.06	30.87	31.50	22.22	21.99	22.65	23.44	
	EDGE 1 Tx slot	24.11	24.00	24.00	25.50					
DTM Multi-slot class 11	GSM 1 Tx slot	28.86	29.46	29.34	30.50	21.59	21.93	21.93	23.24	
	EDGE 2 Tx slots	22.83	22.61	22.87	24.50					

GSM1900_Ant 3	Burst Average Power (dBm)				Tune-up Limit (dBm)	Frame-Average Power (dBm)				Tune-up Limit (dBm)
	TX Channel	512	661	810		512	661	810		
Frequency (MHz)										
GSM 1 Tx slot		24.68	24.29	24.25	25.50	15.68	15.29	15.25	16.50	
GPRS 1 Tx slot		24.62	24.25	24.23	25.50	15.62	15.25	15.23	16.50	
GPRS 2 Tx slots		22.06	21.43	21.25	23.00	16.06	15.43	15.25	17.00	
GPRS 3 Tx slots		20.93	20.44	20.26	22.00	16.67	16.18	16.00	17.74	
GPRS 4 Tx slots		20.36	19.78	19.82	21.00	17.36	16.78	16.82	18.00	
EDGE(GMSK 1 Tx slot)		24.77	24.06	23.80	25.50	15.77	15.06	14.80	16.50	
EDGE(GMSK 2 Tx slots)		22.03	21.54	21.28	23.00	16.03	15.54	15.28	17.00	
EDGE(GMSK 3 Tx slots)		21.07	20.48	20.26	22.00	16.81	16.22	16.00	17.74	
EDGE(GMSK 4 Tx slots)		20.35	19.71	19.67	21.00	17.35	16.71	16.67	18.00	
EDGE 1 Tx slot		24.42	24.26	24.12	26.00	15.42	15.26	15.12	17.00	
EDGE 2 Tx slots		21.92	21.63	21.56	23.50	15.92	15.63	15.56	17.50	
EDGE 3 Tx slots		20.58	20.38	21.56	22.00	16.32	16.12	17.30	17.74	
EDGE 4 Tx slots		19.98	19.65	19.57	21.00	16.98	16.65	16.57	18.00	
DTM Multi-slot class 5	GSM 1 Tx slot	22.01	21.28	21.26	23.00	15.99	15.30	15.20	16.98	
	GPRS 1 Tx slot	22.01	21.36	21.18	23.00					
DTM Multi-slot class 9	GSM 1 Tx slot	21.91	21.28	21.25	23.00	15.95	15.27	15.22	16.98	
	GPRS 1 Tx slot	22.04	21.30	21.24	23.00					
DTM Multi-slot class 11	GSM 1 Tx slot	20.89	20.44	20.31	22.00	16.65	16.19	16.01	17.74	
	GPRS 2 Tx slots	20.92	20.46	20.25	22.00					
DTM Multi-slot class 5	GSM 1 Tx slot	22.04	21.59	21.25	23.00	15.80	15.44	15.20	17.24	
	EDGE 1 Tx slot	21.58	21.33	21.19	23.50					
DTM Multi-slot class 9	GSM 1 Tx slot	22.07	21.55	21.25	23.50	15.86	15.42	15.24	17.24	
	EDGE 1 Tx slot	21.68	21.32	21.27	23.50					
DTM Multi-slot class 11	GSM 1 Tx slot	21.13	20.47	20.36	22.00	16.33	16.00	16.70	17.74	
	EDGE 2 Tx slots	20.29	20.15	21.23	22.00					

GSM1900_Ant 4	Burst Average Power (dBm)				Tune-up Limit	Frame-Average Power (dBm)				Tune-up Limit (dBm)
	TX Channel	512	661	810		512	661	810		
Frequency (MHz)		1850.2	1860	1869.8		1850.2	1860	1869.8		
GSM 1 Tx slot		29.68	29.50	29.45	30.50	20.68	20.50	20.45	21.50	
GPRS 1 Tx slot		29.76	29.88	29.57	30.50	20.76	20.88	20.57	21.50	
GPRS 2 Tx slots		27.71	27.57	27.47	28.00	21.71	21.57	21.47	22.00	
GPRS 3 Tx slots		26.62	26.51	26.41	27.00	22.36	22.25	22.15	22.74	
GPRS 4 Tx slots		25.54	25.53	25.25	26.00	22.54	22.53	22.25	23.00	
EDGE(GMSK 1 Tx slot)		29.76	29.83	29.53	30.50	20.76	20.83	20.53	21.50	
EDGE(GMSK 2 Tx slots)		27.74	27.59	27.43	28.00	21.74	21.59	21.43	22.00	
EDGE(GMSK 3 Tx slots)		26.63	26.83	26.38	27.00	22.37	22.57	22.12	22.74	
EDGE(GMSK 4 Tx slots)		25.54	25.50	25.23	26.00	22.54	22.50	22.23	23.00	
EDGE 1 Tx slot		26.16	26.47	26.14	27.00	17.16	17.47	17.14	18.00	
EDGE 2 Tx slots		24.68	24.68	24.61	25.50	18.68	18.68	18.61	19.50	
EDGE 3 Tx slots		22.12	22.09	21.90	23.00	17.86	17.83	17.64	18.74	
EDGE 4 Tx slots		21.01	21.18	21.02	22.00	18.01	18.18	18.02	19.00	
DTM Multi-slot class 5		GSM 1 Tx slot	27.60	27.46	27.43	28.00	21.62	21.50	21.43	21.98
		GPRS 1 Tx slot	27.69	27.59	27.47	28.00				
DTM Multi-slot class 9		GSM 1 Tx slot	27.63	27.52	27.41	28.00	21.65	21.48	21.41	21.98
		GPRS 1 Tx slot	27.72	27.48	27.45	28.00				
DTM Multi-slot class 11		GSM 1 Tx slot	26.60	26.63	26.46	27.00	22.37	22.36	22.21	22.74
		GPRS 2 Tx slots	26.65	26.61	26.48	27.00				
DTM Multi-slot class 5		GSM 1 Tx slot	27.71	27.62	27.43	28.00	20.34	20.29	20.14	20.91
		EDGE 1 Tx slot	24.39	24.44	24.35	25.50				
DTM Multi-slot class 9		GSM 1 Tx slot	27.71	27.57	27.47	28.00	20.31	20.25	20.15	20.91
		EDGE 1 Tx slot	24.31	24.40	24.31	25.50				
DTM Multi-slot class 11		GSM 1 Tx slot	26.70	26.85	26.44	27.00	19.87	19.95	19.60	20.51
		EDGE 2 Tx slots	21.88	21.85	21.61	23.00				

Band	WCDMA I_Ant 3				Tune-up Limit (dBm)	WCDMA I_Ant 4				Tune-up Limit (dBm)		
	TX Channel		9262	9400		9538	TX Channel		9262		9400	9538
	Rx Channel		9662	9800		9938	Rx Channel		9662		9800	9938
	Frequency (MHz)		1852.4	1880		1907.6	Frequency (MHz)		1852.4		1880	1907.6
3GPP Rel 99	AMR 12.2Kbps	16.36	16.34	16.33	17.00	24.31	24.42	24.40	25.00			
3GPP Rel 99	RMC 12.2Kbps	16.37	16.39	16.30	17.00	24.38	24.46	24.41	25.00			
3GPP Rel 6	HSDPA Subtest-1	15.26	15.28	15.22	16.00	23.27	23.29	23.19	24.00			
3GPP Rel 6	HSDPA Subtest-2	15.27	15.26	15.27	16.00	23.23	23.25	23.18	24.00			
3GPP Rel 6	HSDPA Subtest-3	14.78	14.77	14.77	15.50	22.78	22.78	22.68	23.50			
3GPP Rel 6	HSDPA Subtest-4	14.74	14.80	14.68	15.50	22.78	22.78	22.62	23.50			
3GPP Rel 8	DC-HSDPA Subtest-1	15.28	15.25	15.23	16.00	23.42	23.57	23.41	24.00			
3GPP Rel 8	DC-HSDPA Subtest-2	15.27	15.22	15.25	16.00	23.38	23.58	23.44	24.00			
3GPP Rel 8	DC-HSDPA Subtest-3	14.81	14.80	14.73	15.50	22.88	23.07	22.82	23.50			
3GPP Rel 8	DC-HSDPA Subtest-4	14.76	14.72	14.70	15.50	22.92	23.08	22.95	23.50			
3GPP Rel 6	HSUPA Subtest-1	15.17	15.24	15.24	16.00	22.01	22.06	22.03	24.00			
3GPP Rel 6	HSUPA Subtest-2	13.21	13.26	13.25	14.00	20.07	20.03	20.05	22.00			
3GPP Rel 6	HSUPA Subtest-3	14.21	14.24	14.25	15.00	21.05	21.01	21.03	23.00			
3GPP Rel 6	HSUPA Subtest-4	13.23	13.26	13.25	14.00	20.06	20.12	20.01	22.00			
3GPP Rel 6	HSUPA Subtest-5	15.20	15.30	15.20	16.00	22.11	22.20	22.03	24.00			



Band 5_Ant 0 (DS18)									
BW (MHz)	Modulation	RF Size	RF Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mod Ch / Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.81	23.82	23.79			
10	QPSK	1	25	23.74	23.75	23.77	25	0	
10	QPSK	1	49	23.73	23.65	23.68			
10	QPSK	25	0	22.92	22.93	22.88			
10	QPSK	25	12	22.82	22.74	22.83			
10	QPSK	25	25	22.91	22.82	22.74	24	1	
10	QPSK	50	0	22.81	22.85	22.82			
10	QPSK	50	0	23.23	23.23	23.28			
10	IQAM	1	25	23.04	23.18	23.08	24	1	
10	IQAM	1	49	23.28	22.85	23.32			
10	IQAM	25	0	21.84	21.83	21.78			
10	IQAM	25	12	21.83	21.84	21.89	23	2	
10	IQAM	25	25	21.81	21.86	21.89			
10	IQAM	50	0	21.96	21.78	21.81			
10	IQAM	1	0	21.70	22.17	21.83	23	3	
10	IQAM	1	25	22.16	21.82	22.01			
10	IQAM	1	49	22.15	21.83	21.88			
10	IQAM	25	0	20.88	20.88	20.75			
10	IQAM	25	12	20.85	20.89	20.89	22	3	
10	IQAM	25	25	20.77	20.85	20.82			
10	IQAM	50	0	20.80	20.79	20.84			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.87	23.75	23.87			
5	QPSK	1	12	23.63	23.70	23.65	25	0	
5	QPSK	1	24	23.68	23.60	23.65			
5	QPSK	12	0	22.79	22.88	22.81			
5	QPSK	12	7	22.76	22.89	22.79	24	1	
5	QPSK	12	13	22.80	22.84	22.80			
5	QPSK	25	0	22.70	22.72	22.73			
5	IQAM	1	0	23.16	23.17	23.22			
5	IQAM	1	12	22.96	23.08	22.98	24	1	
5	IQAM	1	24	23.19	23.63	23.26			
5	IQAM	12	0	21.80	21.70	21.84			
5	IQAM	12	7	21.71	21.73	21.76	23	2	
5	IQAM	12	13	21.76	21.73	21.77			
5	IQAM	25	0	21.81	21.79	21.85			
5	IQAM	1	0	21.68	22.02	21.77	23	2	
5	IQAM	1	12	22.09	21.76	21.89			
5	IQAM	1	24	22.08	21.82	21.88			
5	IQAM	12	0	20.83	20.85	20.72			
5	IQAM	12	7	20.84	20.72	20.69	22	3	
5	IQAM	12	13	20.77	20.78	20.75			
5	IQAM	25	0	20.72	20.70	20.74			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.72	23.81	23.85			
3	QPSK	1	8	23.82	23.78	23.79	25	0	
3	QPSK	1	14	23.69	23.59	23.60			
3	QPSK	8	0	22.77	22.81	22.86			
3	QPSK	8	4	22.74	22.67	22.75	24	1	
3	QPSK	8	7	22.83	22.88	22.86			
3	QPSK	15	0	22.73	22.84	22.87			
3	IQAM	1	0	23.10	23.03	23.04			
3	IQAM	1	8	22.93	23.14	22.96	24	1	
3	IQAM	1	14	23.16	22.88	23.04			
3	IQAM	8	0	21.74	21.80	21.71			
3	IQAM	8	4	21.78	21.77	21.75	23	2	
3	IQAM	8	7	21.71	21.73	21.75			
3	IQAM	15	0	21.95	21.64	21.72			
3	IQAM	1	0	21.67	22.09	21.70	23	2	
3	IQAM	1	8	22.03	21.77	21.84			
3	IQAM	1	14	22.04	21.79	21.78			
3	IQAM	8	0	20.84	20.82	20.74			
3	IQAM	8	4	20.81	20.77	20.77	22	3	
3	IQAM	8	7	20.74	20.81	20.80			
3	IQAM	15	0	20.76	20.72	20.70			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.71	23.80	23.70			
1.4	QPSK	1	3	23.60	23.68	23.64	25	0	
1.4	QPSK	1	5	23.71	23.63	23.63			
1.4	QPSK	3	0	23.67	23.79	23.75			
1.4	QPSK	3	1	23.68	23.64	23.79			
1.4	QPSK	3	3	23.65	23.81	23.65			
1.4	QPSK	6	0	22.79	22.89	22.86	24	1	
1.4	QPSK	6	0	23.18	23.10	23.32			
1.4	IQAM	1	3	22.91	23.05	22.98			
1.4	IQAM	1	5	23.16	22.97	23.09	24	1	
1.4	IQAM	3	0	22.81	22.76	22.75			
1.4	IQAM	3	1	22.76	22.82	22.88			
1.4	IQAM	6	0	21.87	21.64	21.74	23	2	
1.4	IQAM	1	0	21.87	22.23	21.94			
1.4	IQAM	1	3	22.34	21.94	22.15			
1.4	IQAM	1	5	22.26	22.26	22.25			
1.4	IQAM	3	0	22.03	21.99	21.98	23	2	
1.4	IQAM	3	1	22.05	21.96	21.98			
1.4	IQAM	3	3	22.05	21.96	21.98			
1.4	IQAM	3	6	21.88	22.01	21.92			
1.4	IQAM	6	0	20.98	20.89	21.02	22	3	

Band 5_Ant 1 (DS18)									
BW (MHz)	Modulation	RF Size	RF Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mod Ch / Freq.	Turnup time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.11	24.18	24.08			
10	QPSK	1	25	24.02	24.17	24.05	25	0	
10	QPSK	1	49	24.09	23.98	24.04			
10	QPSK	25	0	23.23	23.26	23.24			
10	QPSK	25	12	23.21	23.18	23.21			
10	QPSK	25	25	23.14	23.17	23.11	24	1	
10	QPSK	50	0	23.20	23.25	23.15			
10	QPSK	50	0	22.23	22.05	22.10			
10	IQAM	1	25	23.98	23.43	23.25	24	1	
10	IQAM	1	49	23.60	23.29	23.46			
10	IQAM	25	0	22.29	22.24	22.29			
10	IQAM	25	12	22.22	22.27	22.20	23	2	
10	IQAM	25	25	22.22	22.23	22.16			
10	IQAM	50	0	22.23	22.05	22.10			
10	IQAM	1	0	22.12	22.51	22.49			
10	IQAM	1	25	22.40	22.33	22.35	23	2	
10	IQAM	1	49	22.35	22.47	22.45			
10	IQAM	25	0	21.93	21.17	21.21			
10	IQAM	25	12	21.86	21.11	21.25	22	3	
10	IQAM	25	25	21.17	21.15	21.25			
10	IQAM	50	0	21.17	21.23	21.24			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.04	24.06	24.04			
5	QPSK	1	12	23.69	24.12	23.65	25	0	
5	QPSK	1	24	24.01	23.86	24.03			
5	QPSK	12	0	23.11	23.12	23.23			
5	QPSK	12	7	23.14	23.05	23.17	24	1	
5	QPSK	12	13	23.08	23.09	23.07			
5	QPSK	25	0	23.09	23.22	23.03			
5	QPSK	25	0	22.11	22.11	22.11			
5	IQAM	1	0	23.63	23.48	23.45			
5	IQAM	1	12	23.41	23.32	23.34	24	1	
5	IQAM	1	24	23.57	23.17	23.30			
5	IQAM	12	0	22.11	22.22	22.01			
5	IQAM	12	7	22.16	21.76	21.88	23	2	
5	IQAM	12	13	22.12	22.12	22.01			
5	IQAM	25	0	22.16	22.02	22.14			
5	IQAM	1	0	21.87	21.38	22.30			
5	IQAM	1	12	22.31	22.31	22.24	23	2	
5	IQAM	1	24	22.28	22.42	22.39			
5	IQAM	12	0	20.99	21.13	21.13			
5	IQAM	12	7	21.19	21.10	21.17	22	3	
5	IQAM	12	13	21.13	21.13	21.21			
5	IQAM	25	0	21.13	21.14	21.15			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.01	24.03	23.97			
3	QPSK	1	8	24.01	24.10	23.97	25	0	
3	QPSK	1	14	24.02	23.98	23.96			
3	QPSK	8	0	23.11	23.01	23.17			
3	QPSK	8	4	23.10	23.09	23.11	24	1	
3	QPSK	8	7	23.13	23.07	23.06			
3	QPSK	15	0	23.12	23.13	23.01			
3	IQAM	1	0	23.61	23.51	23.49			
3	IQAM	1	8	23.46	23.38	23.25	24	1	
3	IQAM	1	14	23.68	23.21	23.45			
3	IQAM	8	0	22.16	22.19	22.02			
3	IQAM	8	4	22.41	22.16	22.16	23	2	
3	IQAM	8	7	22.17	22.13	21.96			
3	IQAM	15	0	22.13	22.06	22.15			
3	IQAM	1	0	22.03	22.47	22.47			
3	IQAM	1	8	22.35	22.24	22.22	23	2	
3	IQAM	1	14	22.14	22.24	22.24			
3	IQAM	8	0	21.00	21.16	21.10			
3	IQAM	8	4	21.24	21.09	21.19	22	3	
3	IQAM	8	7	21.13	21.13	21.21			
3	IQAM	15	0	21.12	21.13	21.21			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	24.05	24.05	24.05			
1.4	QPSK	1	3	23.98	24.03	24.02			
1.4	QPSK	1	6	24.00	24.00	24.00	25	0	
1.4	QPSK	3	0	24.12	24.14	24.11			
1.4	QPSK	3	1	24.11	24.08	24.07			
1.4	QPSK	3	3	24.09	24.10	24.09			
1.4	QPSK	6	0	23.15	23.12	23.20	24	1	
1.4	QPSK	6	0	23.03	23.58	23.44			
1.4	QPSK	6	3	23.29	23.21	23.21			
1.4	QPSK	6	6	23.00	23.20	23.44	24	1	
1.4	QPSK	3	0	23.05	23.16	22.88			
1.4	QPSK	3	3	23.19	23.18	23.18	25	2	
1.4	QPSK	3	3	23.21	23.16	23.05			
1.4	QPSK	6	0	22.98	23.03	22.98	23	2	
1.4	QPSK	6	3	23.19	22.90	22.88			
1.4	IQAM	1	3	23.25	22.26	22.35	22	3	
1.4	IQAM	1	6	22.96	22.41	22.47			
1.4	IQAM	1	9	23.07	22.30	22.18			
1.4	IQAM	3	0	22.17	22.07	22.19			
1.4	IQAM	3	1	22.11	22.07	22.11			
1.4	IQAM	6	0	21.16	21.21	21.17	22	3	



Band 12_Ant 0 (DSI18)												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.00	24.15	24.03	25	0				
10	QPSK	1	25	23.95	23.95	23.97						
10	QPSK	1	49	23.88	23.99	23.92						
10	QPSK	25	0	23.11	23.16	23.09						
10	QPSK	25	12	23.07	23.08	23.03						
10	QPSK	25	25	23.09	23.12	23.08	24	1				
10	QPSK	50	0	23.10	23.12	23.09						
10	ISQAM	1	0	23.32	23.46	23.45						
10	ISQAM	1	25	23.44	23.52	23.27						
10	ISQAM	1	49	23.23	23.47	23.12						
10	ISQAM	25	0	22.04	22.18	22.04	23	2				
10	ISQAM	25	12	22.20	22.24	22.03						
10	ISQAM	25	25	22.12	22.17	22.06						
10	ISQAM	50	0	22.05	22.02	22.07						
10	ISQAM	1	0	22.20	22.30	22.04						
10	ISQAM	1	25	22.15	22.34	22.10	23	2				
10	ISQAM	1	49	22.43	22.18	22.22						
10	ISQAM	25	0	21.03	21.07	21.05						
10	ISQAM	25	0	21.11	21.10	21.11						
10	ISQAM	25	25	21.12	21.11	21.03						
10	ISQAM	50	0	21.18	21.00	21.00	22	3				
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.94	24.01	24.02	25	0				
5	QPSK	1	12	23.94	23.92	23.87						
5	QPSK	1	24	23.81	23.95	23.90						
5	QPSK	12	0	22.98	23.01	22.95						
5	QPSK	12	7	23.02	22.97	22.92						
5	QPSK	12	13	23.00	23.11	23.00	24	1				
5	QPSK	25	0	23.04	23.09	22.94						
5	ISQAM	1	0	23.18	23.34	23.30						
5	ISQAM	1	25	23.30	23.40	23.18						
5	ISQAM	1	24	23.20	23.34	23.09						
5	ISQAM	12	0	21.97	21.87	21.90	23	2				
5	ISQAM	12	7	22.06	22.03	21.95						
5	ISQAM	12	13	22.11	22.08	21.91						
5	ISQAM	25	0	21.95	21.94	22.00						
5	ISQAM	1	0	22.12	22.05	21.94						
5	ISQAM	1	12	22.13	22.40	21.95	23	2				
5	ISQAM	1	24	22.29	22.08	22.09						
5	ISQAM	12	0	21.01	21.01	21.04						
5	ISQAM	12	7	21.10	21.03	21.06						
5	ISQAM	12	13	21.05	21.07	21.01						
5	ISQAM	25	0	21.09	21.07	20.95	22	3				
Channel												
Frequency (MHz)												
3	QPSK	1	0	23.97	24.00	23.99	25	0				
3	QPSK	1	8	23.85	23.80	23.83						
3	QPSK	1	14	23.79	23.85	23.86						
3	QPSK	8	0	23.07	23.03	23.00						
3	QPSK	8	4	23.06	22.90	23.02						
3	QPSK	8	7	22.95	23.08	23.00	24	1				
3	QPSK	15	0	23.05	23.07	23.08						
3	ISQAM	1	0	23.31	23.40	23.42						
3	ISQAM	1	8	23.39	23.31	23.19						
3	ISQAM	1	14	23.18	23.30	23.10						
3	ISQAM	8	0	21.94	21.82	21.94	23	2				
3	ISQAM	8	4	22.12	21.97	21.90						
3	ISQAM	8	7	22.01	22.05	21.92						
3	ISQAM	15	0	21.91	21.98	22.01						
3	ISQAM	1	0	22.09	22.15	21.95						
3	ISQAM	1	8	22.10	22.42	22.01	23	2				
3	ISQAM	1	14	22.33	22.09	22.15						
3	ISQAM	8	0	20.96	21.06	20.98						
3	ISQAM	8	4	21.05	21.03	21.02						
3	ISQAM	8	7	21.06	21.02	20.93						
3	ISQAM	15	0	21.17	20.91	20.91	22	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.97	24.00	23.99	25	0				
1.4	QPSK	1	8	23.85	23.80	23.83						
1.4	QPSK	1	14	23.79	23.85	23.86						
1.4	QPSK	8	0	23.07	23.03	23.00						
1.4	QPSK	8	4	23.06	22.98	23.03						
1.4	QPSK	8	7	23.12	23.13	23.10	24	1				
1.4	QPSK	15	0	23.08	23.11	23.11						
1.4	ISQAM	1	0	23.50	23.53	23.28						
1.4	ISQAM	1	8	23.56	23.62	23.21						
1.4	ISQAM	1	14	23.60	23.48	23.65						
1.4	ISQAM	8	0	22.02	22.07	22.09	23	2				
1.4	ISQAM	8	4	22.15	21.91	22.05						
1.4	ISQAM	8	7	22.28	22.26	22.29						
1.4	ISQAM	15	0	21.98	22.16	21.80						
1.4	ISQAM	1	0	22.21	22.52	22.27						
1.4	ISQAM	1	8	22.18	22.35	22.23	23	2				
1.4	ISQAM	1	14	22.18	22.25	22.33						
1.4	ISQAM	8	0	21.18	21.03	21.00						
1.4	ISQAM	8	4	21.20	21.17	20.98						
1.4	ISQAM	8	7	21.26	21.14	21.15						
1.4	ISQAM	15	0	21.24	21.07	20.94	22	3				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	23.89	24.05	23.96	25	0				
1.4	QPSK	1	3	24.02	24.00	23.80						
1.4	QPSK	1	5	23.97	23.91	23.87						
1.4	QPSK	3	0	23.93	24.07	23.95						
1.4	QPSK	3	1	23.97	23.93	23.87						
1.4	QPSK	3	3	24.00	23.95	24.01	24	1				
1.4	QPSK	6	0	22.99	23.02	22.99						
1.4	ISQAM	1	0	23.44	23.61	23.31						
1.4	ISQAM	1	3	23.46	23.63	23.21						
1.4	ISQAM	1	5	23.67	23.42	23.64						
1.4	ISQAM	3	0	23.13	23.10	23.11	24	1				
1.4	ISQAM	3	1	23.07	22.94	22.95						
1.4	ISQAM	3	3	23.29	23.22	23.29						
1.4	ISQAM	6	0	22.04	22.19	22.02						
1.4	ISQAM	1	0	22.17	22.43	22.36						
1.4	ISQAM	1	3	22.15	22.40	22.22						

Band 38_Ant 3 (DS18)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPE (dB)		
Channel										
Frequency (MHz)										
37850 38000 38150										
20	QPSK	1	0	18.54	18.52	18.33	19.5	0		
20	QPSK	1	49	18.51	18.53	18.39				
20	QPSK	1	99	18.58	18.56	18.39				
20	QPSK	1	149	18.55	18.55	18.39				
20	QPSK	50	24	18.58	18.58	18.39	19.5	0		
20	QPSK	50	50	18.42	18.37	18.27				
20	QPSK	50	75	18.53	18.53	18.30				
20	16QAM	1	0	18.39	18.36	18.18				
20	16QAM	1	49	18.32	18.36	18.34	19.5	0		
20	16QAM	1	99	18.42	18.45	18.33				
20	16QAM	1	149	18.33	18.44	18.25				
20	16QAM	50	24	18.30	18.40	18.24				
20	16QAM	50	50	18.42	18.46	18.28	19.5	0		
20	16QAM	100	0	18.44	18.51	18.21				
20	64QAM	1	49	18.48	18.56	18.51				
20	64QAM	1	99	18.32	18.44	18.23				
20	64QAM	50	0	18.57	18.51	18.33	19.5	0		
20	64QAM	50	24	18.49	18.42	18.32				
20	64QAM	50	50	18.44	18.39	18.26				
20	64QAM	100	0	18.51	18.39	18.20				
Channel										
Frequency (MHz)										
37850 38000 38150										
15	QPSK	1	0	18.44	18.49	18.50	19.5	0		
15	QPSK	1	37	18.49	18.49	18.38				
15	QPSK	1	74	18.55	18.55	18.45				
15	QPSK	36	0	18.25	18.23	18.21				
15	QPSK	36	36	18.47	18.42	18.33	19.5	0		
15	QPSK	36	36	18.31	18.30	18.39				
15	QPSK	75	0	18.48	18.41	18.43				
15	16QAM	1	0	18.32	18.32	18.32				
15	16QAM	1	37	18.50	18.51	18.45	19.5	0		
15	16QAM	1	74	18.36	18.29	18.30				
15	16QAM	36	0	18.41	18.51	18.46				
15	16QAM	36	36	18.43	18.45	18.35				
15	16QAM	75	0	18.31	18.40	18.39	19.5	0		
15	64QAM	1	0	18.39	18.38	18.37				
15	64QAM	1	37	18.36	18.48	18.43				
15	64QAM	1	74	18.38	18.29	18.34				
15	64QAM	36	0	18.41	18.41	18.47	19.5	0		
15	64QAM	36	36	18.40	18.47	18.39				
15	64QAM	36	36	18.41	18.43	18.39				
15	64QAM	75	0	18.44	18.46	18.47				
Channel										
Frequency (MHz)										
37850 38000 38150										
10	QPSK	1	0	18.52	18.48	18.42	19.5	0		
10	QPSK	1	25	18.42	18.44	18.44				
10	QPSK	1	49	18.43	18.42	18.44				
10	QPSK	25	0	18.52	18.54	18.50				
10	QPSK	25	12	18.40	18.53	18.54	19.5	0		
10	QPSK	25	25	18.41	18.41	18.38				
10	QPSK	50	0	18.37	18.40	18.46				
10	16QAM	1	0	18.38	18.36	18.24				
10	16QAM	1	25	18.47	18.48	18.43	19.5	0		
10	16QAM	1	49	18.34	18.41	18.39				
10	16QAM	25	0	18.51	18.51	18.49				
10	16QAM	25	12	18.48	18.49	18.44				
10	16QAM	25	25	18.31	18.27	18.28	19.5	0		
10	16QAM	50	0	18.33	18.31	18.43				
10	64QAM	1	0	18.34	18.36	18.28				
10	64QAM	1	25	18.37	18.42	18.36				
10	64QAM	1	49	18.35	18.38	18.36	19.5	0		
10	64QAM	25	0	18.44	18.43	18.46				
10	64QAM	25	12	18.41	18.46	18.45				
10	64QAM	25	25	18.38	18.41	18.35				
10	64QAM	50	0	18.40	18.50	18.49	19.5	0		
Channel										
Frequency (MHz)										
37775 38000 38225										
5	QPSK	1	0	18.42	18.47	18.45	19.5	0		
5	QPSK	1	12	18.42	18.42	18.43				
5	QPSK	1	24	18.40	18.48	18.55				
5	QPSK	12	5	18.25	18.22	18.24				
5	QPSK	12	7	18.40	18.40	18.47	19.5	0		
5	QPSK	12	19	18.31	18.35	18.31				
5	QPSK	25	0	18.44	18.47	18.44				
5	16QAM	1	0	18.37	18.28	18.37				
5	16QAM	1	12	18.40	18.39	18.45	19.5	0		
5	16QAM	1	24	18.28	18.28	18.39				
5	16QAM	12	0	18.45	18.48	18.46				
5	16QAM	12	7	18.44	18.40	18.47				
5	16QAM	12	13	18.31	18.25	18.31	19.5	0		
5	16QAM	25	0	18.41	18.33	18.50				
5	64QAM	1	0	18.37	18.41	18.27				
5	64QAM	1	12	18.40	18.36	18.35	19.5	0		
5	64QAM	1	24	18.37	18.34	18.24				
5	64QAM	12	0	18.44	18.46	18.49				
5	64QAM	12	7	18.40	18.48	18.42				
5	64QAM	12	13	18.32	18.26	18.32	19.5	0		
5	64QAM	25	0	18.47	18.45	18.44				



Band 5_Ant 0 (DS117)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mode Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.81	23.82	23.79			
10	QPSK	1	25	23.74	23.85	23.77	25	0	
10	QPSK	1	49	23.73	23.85	23.68			
10	QPSK	25	0	22.92	22.93	22.88			
10	QPSK	25	12	22.82	22.74	22.83			
10	QPSK	25	25	22.91	22.62	22.74	24	1	
10	QPSK	50	0	22.81	22.85	22.82			
10	QPSK	50	0	23.23	23.18	23.08			
10	QPSK	1	25	23.04	23.18	23.06	24	1	
10	QPSK	1	49	23.28	22.85	23.32			
10	QPSK	1	49	21.84	21.93	21.78			
10	QPSK	25	12	21.81	21.98	21.89			
10	QPSK	25	0	21.96	21.78	21.81			
10	QPSK	1	0	21.70	22.17	21.83			
10	QPSK	1	25	22.16	21.82	22.01	23	2	
10	QPSK	1	49	22.15	21.83	21.88			
10	QPSK	25	0	20.88	20.88	20.75			
10	QPSK	25	12	20.85	20.88	20.79			
10	QPSK	25	25	20.77	20.85	20.82	22	3	
10	QPSK	50	0	20.80	20.79	20.84			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.87	23.75	23.87			
5	QPSK	1	12	23.63	23.70	23.65	25	0	
5	QPSK	1	24	23.68	23.60	23.65			
5	QPSK	12	0	22.79	22.88	22.81			
5	QPSK	12	7	22.76	22.89	22.79	24	1	
5	QPSK	12	13	22.80	22.74	22.80			
5	QPSK	25	0	22.70	22.72	22.73			
5	QPSK	1	0	23.16	23.17	23.22			
5	QPSK	1	12	22.96	23.08	22.98	24	1	
5	QPSK	1	24	23.19	22.63	23.26			
5	QPSK	12	0	21.80	21.70	21.84			
5	QPSK	12	7	21.71	21.73	21.76	23	2	
5	QPSK	12	13	21.76	21.73	21.77			
5	QPSK	25	0	21.81	21.79	21.86			
5	QPSK	1	0	21.68	22.02	21.77			
5	QPSK	1	12	22.09	21.76	21.99	23	2	
5	QPSK	1	24	22.08	21.78	21.85			
5	QPSK	12	0	20.83	20.85	20.72			
5	QPSK	12	7	20.84	20.72	20.69	22	3	
5	QPSK	12	13	20.78	20.72	20.75			
5	QPSK	25	0	20.72	20.70	20.74			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.72	23.81	23.85			
3	QPSK	1	8	23.62	23.78	23.79	25	0	
3	QPSK	1	14	23.69	23.59	23.60			
3	QPSK	8	0	22.77	22.81	22.86			
3	QPSK	8	4	22.74	22.67	22.76	24	1	
3	QPSK	8	7	22.83	22.68	22.66			
3	QPSK	15	0	22.73	22.84	22.87			
3	QPSK	1	0	23.10	23.03	23.04			
3	QPSK	1	8	22.93	23.14	22.96	24	1	
3	QPSK	1	14	23.16	22.88	23.04			
3	QPSK	8	0	21.74	21.80	21.71			
3	QPSK	8	4	21.78	21.77	21.75	23	2	
3	QPSK	8	7	21.71	21.73	21.75			
3	QPSK	15	0	21.95	21.64	21.72			
3	QPSK	1	0	21.67	22.09	21.78			
3	QPSK	1	8	22.03	21.77	21.84	23	2	
3	QPSK	1	14	22.04	21.79	21.78			
3	QPSK	8	0	20.84	20.82	20.74			
3	QPSK	8	4	20.81	20.77	20.77	22	3	
3	QPSK	8	7	20.74	20.81	20.80			
3	QPSK	15	0	20.76	20.72	20.79			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.71	23.80	23.79			
1.4	QPSK	1	3	23.60	23.68	23.64	25	0	
1.4	QPSK	1	5	23.71	23.63	23.63			
1.4	QPSK	3	0	23.67	23.79	23.75			
1.4	QPSK	3	1	23.68	23.64	23.79			
1.4	QPSK	3	3	23.66	23.81	23.65	24	1	
1.4	QPSK	6	0	22.79	22.89	22.86			
1.4	QPSK	1	0	23.18	23.10	23.32			
1.4	QPSK	1	3	22.91	23.35	22.96	24	1	
1.4	QPSK	1	5	23.18	22.97	23.09			
1.4	QPSK	3	0	22.81	22.76	22.75			
1.4	QPSK	3	1	22.76	22.82	22.88			
1.4	QPSK	3	3	22.76	22.79	22.81			
1.4	QPSK	6	0	21.82	21.64	21.74	23	2	
1.4	QPSK	1	0	21.87	22.23	21.94			
1.4	QPSK	1	3	22.34	21.94	22.15			
1.4	QPSK	1	5	22.21	21.89	21.98	23	2	
1.4	QPSK	3	0	22.03	21.99	21.86			
1.4	QPSK	3	1	22.05	21.95	21.98			
1.4	QPSK	3	3	21.88	22.01	21.92			
1.4	QPSK	6	0	20.98	20.89	21.02	22	3	

Band 5_Ant 1 (DS117)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Mode Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.11	24.18	24.08			
10	QPSK	1	25	24.02	24.17	24.05	25	0	
10	QPSK	1	49	24.09	23.98	24.04			
10	QPSK	25	0	23.23	23.26	23.24			
10	QPSK	25	12	23.21	23.18	23.21			
10	QPSK	25	25	23.14	23.17	23.11	24	1	
10	QPSK	50	0	23.20	23.25	23.15			
10	QPSK	50	0	23.68	23.59	23.50			
10	QPSK	1	25	23.98	23.43	23.25	24	1	
10	QPSK	1	49	23.60	23.29	23.46			
10	QPSK	1	49	22.29	22.24	22.29			
10	QPSK	25	12	22.22	22.27	22.20	23	2	
10	QPSK	25	0	22.22	22.23	22.16			
10	QPSK	25	0	22.23	22.05	22.10			
10	QPSK	1	0	22.12	22.51	22.49			
10	QPSK	1	25	22.40	22.33	22.35	23	2	
10	QPSK	1	49	22.35	22.47	22.45			
10	QPSK	25	0	21.03	21.17	21.21			
10	QPSK	25	12	21.05	21.11	21.25			
10	QPSK	25	25	21.17	21.15	21.25	22	3	
10	QPSK	50	0	21.17	21.23	21.24			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.04	24.06	24.04			
5	QPSK	1	12	23.69	24.12	23.65	25	0	
5	QPSK	1	24	24.01	23.85	24.03			
5	QPSK	12	0	23.11	23.12	23.23			
5	QPSK	12	7	23.14	23.05	23.17	24	1	
5	QPSK	12	13	23.08	23.09	23.07			
5	QPSK	25	0	23.09	23.22	23.03			
5	QPSK	1	0	23.63	23.48	23.45			
5	QPSK	1	12	23.41	23.32	23.34	24	1	
5	QPSK	1	24	23.67	23.17	23.39			
5	QPSK	12	0	22.11	22.22	22.01			
5	QPSK	12	7	22.16	21.76	22.08	23	2	
5	QPSK	12	13	22.12	22.12	22.01			
5	QPSK	25	0	22.05	22.02	22.14			
5	QPSK	1	0	21.87	21.38	21.39			
5	QPSK	1	12	22.31	22.31	22.24	23	2	
5	QPSK	1	24	22.28	22.42	22.39			
5	QPSK	12	0	20.99	21.13	21.13			
5	QPSK	12	7	21.19	21.10	21.17	22	3	
5	QPSK	12	13	21.10	21.15	21.22			
5	QPSK	25	0	21.13	21.14	21.15			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.01	24.03	23.97			
3	QPSK	1	8	24.01	24.10	23.97	25	0	
3	QPSK	1	14	24.02	23.98	23.96			
3	QPSK	8	0	23.11	23.21	23.17			
3	QPSK	8	4	23.10	23.09	23.11	24	1	
3	QPSK	8	7	23.13	23.07	23.06			
3	QPSK	15	0	23.12	23.13	23.01			
3	QPSK	1	0	23.81	23.51	23.49			
3	QPSK	1	8	23.46	23.38	23.25	24	1	
3	QPSK	1	14	23.58	23.21	23.45			
3	QPSK	8	0	22.16	22.19	22.02			
3	QPSK	8	4	22.21	22.16	22.16	23	2	
3	QPSK	8	7	22.17	22.13	21.96			
3	QPSK	15	0	22.13	22.06	22.15			
3	QPSK	1	0	22.03	22.47	22.47			
3	QPSK	1	8	22.35	22.24	22.22	23	2	
3	QPSK	1	14	22.14					
3	QPSK	8	0	21.00	21.16	21.19			
3	QPSK	8	4	21.24	21.09	21.19	22	3	
3	QPSK	8	7	21.15	21.15	21.22			
3	QPSK	15	0	21.12	21.13	21.21			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	24.05	24.05	24.05			
1.4	QPSK	1	3	23.98	24.03	24.02			
1.4	QPSK	1	6	24.00	24.00	24.00	25	0	
1.4	QPSK	1	9	24.02	24.14	24.11			
1.4	QPSK	1	12	24.01	24.08	24.07			
1.4	QPSK	3	0	23.99	24.10	24.04			
1.4	QPSK	6	0	23.15	23.12	23.20	26	1	
1.4	QPSK	1	0	23.60	23.58	23.44			
1.4	QPSK	3	0	23.29	23.21	23.24			
1.4	QPSK	6	0	23.90	23.20	23.44	24	1	
1.4	QPSK	3	0	23.05	23.16	22.38			
1.4	QPSK	6	0	23.19	22.58	22.88	23	2	
1.4	QPSK	3	0	22.98	22.93	22.96			
1.4	QPSK	6	0	22.80	22.80	22.80			
1.4	QPSK	3	0	22.35	22.26	22.35	22	3	
1.4	QPSK	1	0	22.16	22.41	22.41			
1.4	QPSK	3	0	22.07	22.18	22.18			
1.4	QPSK	6	0	22.11	22.07	22.19			
1.4	QPSK	3	0	21.11	21.22	21.22			
1.4	QPSK	6	0	21.16	21.21	21.17	22	3	



Band 41 HPUE_Ant_3 (DS117)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-High Ch / Freq	Power High-Low Ch / Freq	Power High-High Ch / Freq	Tune-up limit (dBm)	MPE (dB)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.84	20.85	20.85	20.84	20.87	21.5	0	
20	QPSK	1	49	20.80	20.69	20.78	20.87	20.88			
20	QPSK	1	99	20.80	20.81	20.83	20.79	20.82			
20	QPSK	50	0	20.74	20.58	20.74	20.65	20.86			
20	QPSK	50	24	20.86	20.73	20.89	20.69	20.88			
20	QPSK	50	50	20.70	20.71	20.84	20.55	20.82	21.5	0	
20	QPSK	100	0	20.67	20.56	20.82	20.61	20.70			
20	16QAM	1	0	20.67	20.65	20.61	20.60	20.67			
20	16QAM	1	49	20.58	20.56	20.68	20.60	20.68			
20	16QAM	1	99	20.74	20.70	20.72	20.67	20.73			
20	16QAM	50	0	20.63	20.57	20.44	20.49	20.56	21.5	0	
20	16QAM	50	24	20.66	20.59	20.72	20.55	20.87			
20	16QAM	50	50	20.66	20.61	20.63	20.69	20.56			
20	16QAM	100	0	20.55	20.44	20.44	20.45	20.46			
20	16QAM	100	1	20.55	20.54	20.55	20.55	20.56			
20	64QAM	1	49	20.69	20.58	20.55	20.65	20.62	21.5	0	
20	64QAM	1	99	20.77	20.86	20.76	20.72	20.69			
20	64QAM	50	0	20.50	20.54	20.53	20.53	20.53			
20	64QAM	50	24	20.63	20.62	20.71	20.66	20.65			
20	64QAM	50	50	20.60	20.57	20.69	20.61	20.58			
20	64QAM	100	0	20.47	20.42	20.59	20.53	20.54	21.5	0	
Channel				20.725	20.713	20.626	20.698	20.615	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)											
15	QPSK	1	0	20.72	20.70	20.62	20.75	20.77	21.50	0	
15	QPSK	1	37	20.66	20.66	20.68	20.72	20.70			
15	QPSK	1	74	20.86	20.80	20.64	20.70	20.92			
15	QPSK	36	0	20.65	20.62	20.59	20.70	20.69			
15	QPSK	36	20	20.75	20.84	20.78	20.79	20.80			
15	QPSK	36	39	20.71	20.79	20.72	20.83	20.80	21.5	0	
15	QPSK	75	0	20.75	20.79	20.81	20.75	20.73			
15	16QAM	1	37	20.67	20.67	20.67	20.72	20.69			
15	16QAM	1	74	20.62	20.68	20.69	20.68	20.67			
15	16QAM	36	0	20.36	20.36	20.35	20.41	20.38			
15	16QAM	36	20	20.70	20.71	20.70	20.67	20.59	21.5	0	
15	16QAM	36	20	20.75	20.54	20.60	20.60	20.60			
15	16QAM	75	0	20.40	20.34	20.46	20.39	20.43			
15	64QAM	1	0	20.49	20.54	20.52	20.56	20.61			
15	64QAM	1	37	20.47	20.47	20.47	20.52	20.42			
15	64QAM	1	74	20.68	20.61	20.67	20.71	20.75	21.5	0	
15	64QAM	36	0	20.52	20.44	20.46	20.49	20.46			
15	64QAM	36	20	20.68	20.64	20.64	20.62	20.68			
15	64QAM	36	39	20.60	20.59	20.67	20.61	20.61			
15	64QAM	75	0	20.48	20.49	20.43	20.48	20.45			
Channel				20.705	20.690	20.602	20.674	20.590	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)											
10	QPSK	1	0	20.81	20.82	20.72	20.84	20.82	21.50	0	
10	QPSK	1	25	20.68	20.67	20.75	20.65	20.65			
10	QPSK	1	49	20.86	20.86	20.78	20.81	20.82			
10	QPSK	25	0	20.73	20.71	20.73	20.74	20.69			
10	QPSK	25	12	20.86	20.78	20.74	20.75	20.80			
10	QPSK	25	25	20.71	20.71	20.76	20.73	20.73	21.5	0	
10	QPSK	50	0	20.72	20.61	20.65	20.74	20.72			
10	16QAM	1	0	20.57	20.52	20.51	20.53	20.58			
10	16QAM	1	25	20.58	20.58	20.56	20.53	20.53			
10	16QAM	1	49	20.68	20.66	20.69	20.59	20.65			
10	16QAM	25	0	20.34	20.30	20.36	20.42	20.40	21.5	0	
10	16QAM	25	12	20.59	20.59	20.67	20.68	20.60			
10	16QAM	25	25	20.54	20.62	20.53	20.59	20.50			
10	16QAM	50	0	20.41	20.30	20.30	20.43	20.37			
10	16QAM	1	0	20.61	20.56	20.58	20.54	20.48			
10	64QAM	1	25	20.47	20.53	20.46	20.52	20.53	21.5	0	
10	64QAM	1	49	20.71	20.67	20.75	20.74	20.73			
10	64QAM	25	0	20.47	20.46	20.45	20.51	20.48			
10	64QAM	25	12	20.63	20.65	20.65	20.67	20.62			
10	64QAM	25	25	20.59	20.59	20.62	20.68	20.60			
10	64QAM	50	0	20.48	20.45	20.43	20.43	20.43	21.5	0	
Channel				20.695	20.688	20.600	20.673	20.588	Tune-up limit (dBm)	MPE (dB)	
Frequency (MHz)											
5	QPSK	1	12	20.76	20.71	20.79	20.70	20.72	21.50	0	
5	QPSK	1	24	20.62	20.76	20.66	20.66	20.70			
5	QPSK	1	37	20.61	20.59	20.63	20.63	20.60			
5	QPSK	12	7	20.81	20.78	20.74	20.88	20.78			
5	QPSK	12	13	20.75	20.76	20.83	20.79	20.82			
5	QPSK	25	0	20.69	20.69	20.74	20.78	20.71	21.5	0	
5	16QAM	1	0	20.48	20.51	20.46	20.48	20.51			
5	16QAM	1	12	20.60	20.53	20.60	20.60	20.63			
5	16QAM	1	24	20.65	20.60	20.69	20.62	20.66			
5	16QAM	12	0	20.37	20.37	20.37	20.38	20.35			
5	16QAM	12	7	20.62	20.63	20.59	20.68	20.68	21.5	0	
5	16QAM	12	13	20.55	20.62	20.58	20.51	20.61			
5	16QAM	25	0	20.39	20.36	20.39	20.41	20.39			
5	16QAM	1	0	20.58	20.56	20.61	20.51	20.51			
5	64QAM	1	12	20.47	20.41	20.50	20.50	20.50			
5	64QAM	1	24	20.61	20.75	20.72	20.60	20.60	21.5	0	
5	64QAM	12	0	20.43	20.47	20.51	20.44	20.45			
5	64QAM	12	7	20.62	20.68	20.63	20.68	20.62			
5	64QAM	12	13	20.60	20.67	20.60	20.68	20.65			
5	64QAM	25	0	20.47	20.44	20.46	20.43	20.46			

Band 41_Ant_4 (DS117)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low-High Ch / Freq	Power Middle Ch / Freq	Power High-Low Ch / Freq	Power High-High Ch / Freq	Tune-up limit (dBm)	MPE (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	36795	40185	40600	40605	41600	24	0	
20	QPSK	1	49	23.58	23.47	23.53	23.55	23.53			
20	QPSK	1	99	23.61	23.51	23.70	23.59	23.63			
20	QPSK	50	0	22.86	22.54	22.53	22.60	22.42			
20	QPSK	50	24	22.89	22.63	22.73	22.71	22.84			
20	QPSK	50	50	22.84	22.59	22.65	22.57	22.60	23	1	
20	QPSK	100	0	22.62	22.57	22.63	22.57	22.47			
20	16QAM	1	0	22.48	22.59	22.52	22.39	22.25			
20	16QAM	1	49	22.61	22.57	22.61	22.73	22.62			
20	16QAM	1	99	22.56	22.52	22.69	22.28	22.45			
20	16QAM	50	0	21.86	21.56	21.54	21.59	21.41	22	2	
20	16QAM	50	24	21.86	21.60	21.65	21.71	21.58			
20	16QAM	50	50	21.81	21.62	21.68	21.59	21.63	21	3	
20	16QAM	100	0	21.62	21.57	21.62	21.56	21.51			
20	64QAM	1	0	21.54	21.40	21.42	21.31	21.20			
20	64QAM	1	49	21.40	21.42	21.41	21.50	21.58			
20	64QAM	1	99	21.50	21.41	21.52	21.29	21.56			
20	64QAM	50	0	20.68	20.56	20.56	20.63	20.42	21	3	
20	64QAM	50	24	20.68	20.60	20.64	20.71	20.59			
20	64QAM	50	50	20.63	20.61	20.66	20.59	20.65			
20	64QAM	100	0	20.68	20.56	20.59	20.59	20.51			
Channel											
Frequency (MHz)											
15	QPSK	1	0	36729	40173	40600	40608	41600	Tune-up limit (dBm)	MPE (dB)	
15	QPSK	1	37	23.53	23.43	23.53	23.53	23.53	24.00		
15	QPSK	1	74	23.44	23.49	23.60	23.35	23.50			
15	QPSK	1	111	23.44	23.55	23.66	23.35	23.48			
15	QPSK	36	26	22.68	22.56	22.65	22.62	22.61			
15	QPSK	36	39	22.61	22.56	22.68	22.62	22.61			
15	QPSK	36	75	22.62	22.58	22.69	22.62	22.52	22	2	
15	16QAM	1	0	22.55	22.49	22.46	22.21	22.18			
15	16QAM	1	37	22.52	22.55	22.56	22.68	22.67			
15	16QAM	1	74	22.50	22.48	22.69	22.40	22.73			
15	16QAM	36	5	21.65	21.58	21.58	21.48	21.48			
15	16QAM	36	39	21.62	21.61	21.62	21.59	21.61	22	2	
15	16QAM	36	75	21.64	21.56	21.62	21.64	21.58			
15	64QAM	1	0	21.40	21.31	21.32	21.17	21.17			
15	64QAM	1	37	21.40	21.47	21.37	21.31	21.67			
15	64QAM	1	74	21.36	21.39	21.53	21.38	21.44			
15	64QAM	36	26	20.61	20.58	20.62	20.59	20.47	21	3	
15	64QAM	36	75	20.63	20.60	20.65	20.57	20.58			
15	64QAM	36	111	20.62	20.61	20.62	20.65	20.63			
15	64QAM	100	0	20.62	20.58	20.64	20.59	20.57			
Channel											
Frequency (MHz)											
10	QPSK	1	0	36703	40160	40600	40608	41600	Tune-up limit (dBm)	MPE (dB)	
10	QPSK	1	25	23.69	23.63	23.62	23.45	23.35	24.00		
10	QPSK	1	50	23.75	23.67	23.68	23.20	23.70			
10	QPSK	25	0	22.96	22.60	22.66	22.60	22.40			
10	QPSK	25	25	22.76	22.64	22.73	22.72	22.85			
10	QPSK	25	50	22.77	22.70	22.75	22.84	22.74			
10	QPSK	50	0	22.76	22.66	22.70	22.64	22.54	23	1	
10	QPSK	50	25	22.78	22.69	22.75	22.75	22.85			
10	16QAM	1	0	22.79	22.67	22.78	22.41	22.49			
10	16QAM	1	25	22.74	22.58	22.74	22.58	22.68			
10	16QAM	1	50	22.67	22.62	22.74	22.55	22.51			
10	16QAM	25	0	21.74	21.69	21.74	21.72	21.67	22	2	
10	16QAM	25	25	21.80	21.74	21.76	21.78	21.67			
10	16QAM	50	0	21.74	21.71	21.73	21.73	21.69			
10	64QAM	1	0	21.73	21.61	21.68	21.51	21.58			
10	64QAM	1	25	21.74	21.66	21.69	21.65	21.67			
10	64QAM	25	0	21.67	21.56	21.60	21.49	21.44	21	3	
10	64QAM	25	25	20.78	20.68	20.78	20.69	20.81			
10	64QAM	25	50	20.79	20.68	20.78	20.81	20.74			
10	64QAM	25	75	20.76	20.68	20.78	20.76	20.78			
10	64QAM	100	0	20.76	20.68	20.78	20.76	20.78			
Channel											
Frequency (MHz)											
5	QPSK	1	0	36675	40148	40600	40603	41600	Tune-up limit (dBm)	MPE (dB)	
5	QPSK	1	0	23.71	23.60	23.61	23.63	23.63	24.00		
5	QPSK	1	12	23.68	23.63	23.65	23.63	23.71			
5	QPSK	1	24	23.69	23.67	23.68	23.63	23.63			
5	QPSK	12	0	22.75	22.67	22.70	22.60	22.68			
5	QPSK	12	7	22.76	22.68	22.76	22.63	22.74			
5	QPSK	18	0	22.76	22.67	22.67	22.67	22.67	23	1	
5	16QAM	1	0	22.74	22.57	22.58	22.75	22.66			
5	16QAM	1	12	22.67	22.77	22.77	22.77	22.78			
5	16QAM	1	24	22.71	22.61	22.63	22.68	22.61			
5	16QAM	12	0	21.74	21.62	21.62	21.85	21.61			
5	16QAM	12	5	21.77	21.72	21.72	21.78	21.78	22	2	
5	16QAM	12	13	21.75	21.60	21.62	21.85	21.73			
5	64QAM	1	0	21.71	21.68	21.71	21.81	21.72			
5	64QAM	1	12	21.76	21.61	21.61	21.81	21.72			
5	64QAM	1	12	21.73	21.63	21.60	21.59	21.76			
5	64QAM	12	0	20.74	20.64	20.64	20.79	20.65	21	3	
5	64QAM	12	5	20.76	20.75	20.74	20.72	20.69			
5	64QAM	12	13	20.76	20.75	20.74	20.72	20.70			
5	64QAM	12	25	20.69	20.67	20.73	20.70	20.70			
5	64QAM	25	0	20.69	20.67	20.73	20.70	20.70			



Band 7_Ant 3(DS18)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20650	Power Mids Ch. Freq. 21100	Power High Ch. Freq. 21550	Turn-up (dB)	Turn-down (dB)	MPR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	13.95	13.95	13.95				
20	QPSK	1	49	13.80	13.95	13.85	15	0		
20	QPSK	1	99	13.74	13.83	13.69				
20	QPSK	50	0	13.76	13.76	13.76				
20	QPSK	50	24	13.73	13.87	13.82	15	0		
20	QPSK	50	50	13.78	13.85	13.60				
20	QPSK	100	0	13.81	13.81	13.81				
20	QPSK	1	0	13.81	13.82	13.68				
20	16QAM	1	49	13.66	13.74	13.69	15	0		
20	16QAM	1	99	13.70	13.78	13.69				
20	16QAM	50	0	13.85	13.87	13.80				
20	16QAM	50	24	13.76	13.89	13.74	15	0		
20	16QAM	50	50	13.72	13.87	13.84				
20	16QAM	100	0	13.82	13.92	13.90				
20	16QAM	1	0	13.62	13.72	13.71				
20	16QAM	1	49	13.53	13.67	13.58	15	0		
20	16QAM	1	99	13.69	13.71	13.62				
20	16QAM	50	0	13.74	13.83	13.70				
20	16QAM	50	24	13.53	13.77	13.75	15	0		
20	16QAM	50	50	13.57	13.70	13.66				
20	16QAM	100	0	13.51	13.59	13.64				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.93	13.93	14.02				
15	QPSK	1	37	13.80	13.93	13.83	15	0		
15	QPSK	1	74	13.60	13.74	13.70				
15	QPSK	36	0	13.79	13.85	13.79				
15	QPSK	36	36	13.76	13.76	13.76	15	0		
15	QPSK	36	39	13.70	13.83	13.73				
15	QPSK	75	0	13.60	13.88	13.89				
15	QPSK	1	0	13.78	13.78	13.78				
15	16QAM	1	37	13.68	13.68	13.72	15	0		
15	16QAM	1	74	13.75	13.70	13.71				
15	16QAM	1	74	13.72	13.68	13.69				
15	16QAM	36	20	13.84	13.85	13.84	15	0		
15	16QAM	36	39	13.77	13.85	13.75				
15	16QAM	75	0	13.63	13.78	13.68				
15	16QAM	1	0	13.58	13.61	13.64				
15	16QAM	1	37	13.57	13.54	13.58	15	0		
15	16QAM	1	74	13.60	13.61	13.60				
15	16QAM	36	0	13.74	13.79	13.80				
15	16QAM	36	20	13.67	13.76	13.74	15	0		
15	16QAM	36	39	13.63	13.62	13.64				
15	16QAM	75	0	13.88	13.92	13.92				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.98	13.98	14.03				
10	QPSK	1	25	13.85	13.88	13.81	15	0		
10	QPSK	1	49	13.74	13.84	13.73				
10	QPSK	25	0	13.90	13.92	13.89				
10	QPSK	25	12	13.75	13.73	13.85	15	0		
10	QPSK	25	25	13.76	13.76	13.75				
10	QPSK	50	0	13.86	13.79	13.87				
10	16QAM	1	0	13.81	13.77	13.73				
10	16QAM	1	25	13.60	13.66	13.68	15	0		
10	16QAM	1	49	13.76	13.84	13.69				
10	16QAM	25	0	13.74	13.85	13.81				
10	16QAM	25	12	13.76	13.86	13.81	15	0		
10	16QAM	25	25	13.76	13.86	13.82				
10	16QAM	50	0	13.51	13.78	13.67				
10	16QAM	1	0	13.59	13.67	13.59				
10	16QAM	1	25	13.65	13.61	13.56	15	0		
10	16QAM	1	49	13.94	13.87	13.81				
10	16QAM	1	12	13.65	13.64	13.66				
10	16QAM	25	0	13.81	13.76	13.82	15	0		
10	16QAM	25	12	13.77	13.73	13.76				
10	16QAM	25	25	13.60	13.66	13.60				
10	16QAM	50	0	13.57	13.62	13.60				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.96	13.96	13.91				
5	QPSK	1	12	13.89	13.84	13.83	15	0		
5	QPSK	1	24	13.78	13.75	13.73				
5	QPSK	12	0	13.76	13.81	13.84				
5	QPSK	12	7	13.76	13.77	13.75	15	0		
5	QPSK	12	13	13.77	13.72	13.70				
5	QPSK	25	0	13.81	13.86	13.77				
5	16QAM	1	0	13.73	13.73	13.67				
5	16QAM	1	12	13.66	13.62	13.64	15	0		
5	16QAM	1	24	13.74	13.69	13.68				
5	16QAM	12	0	13.78	13.77	13.78				
5	16QAM	12	7	13.80	13.87	13.84	15	0		
5	16QAM	12	13	13.81	13.72	13.77				
5	16QAM	25	0	13.83	13.67	13.84				
5	16QAM	1	0	13.69	13.80	13.81				
5	16QAM	1	12	13.65	13.64	13.66	15	0		
5	16QAM	1	24	13.84	13.83	13.82				
5	16QAM	12	0	13.77	13.82	13.74				
5	16QAM	12	7	13.75	13.88	13.71	15	0		
5	16QAM	12	13	13.67	13.83	13.62				
5	16QAM	25	0	13.92	13.86	13.90				

Band 7_Ant 6(DS18)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20650	Power Mids Ch. Freq. 21100	Power High Ch. Freq. 21550	Turnup (dB)	Turn-down (dB)	MPR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	18.61	18.63	18.53				
20	QPSK	1	49	18.50	18.62	18.50	19.5	0		
20	QPSK	1	99	18.57	18.58	18.56				
20	QPSK	50	0	18.58	18.61	18.58				
20	QPSK	50	24	18.46	18.56	18.44	19.5	0		
20	QPSK	50	50	18.57	18.48	18.36				
20	QPSK	100	0	18.61	18.63	18.40				
20	16QAM	1	0	18.34	18.43	18.30				
20	16QAM	1	49	18.37	18.43	18.31	19.5	0		
20	16QAM	1	99	18.34	18.42	18.30				
20	16QAM	50	0	18.61	18.57	18.50				
20	16QAM	50	24	18.77	18.87	18.83	19	0.5		
20	16QAM	50	50	18.81	18.77	18.72				
20	16QAM	100	0	18.83	18.71	18.55				
20	16QAM	1	0	17.68	17.83	17.78				
20	16QAM	1	49	17.63	17.77	17.65	19	0.5		
20	16QAM	1	99	17.74	17.62	17.56				
20	16QAM	50	0	16.59	16.73	16.62				
20	16QAM	50	24	16.49	16.62	16.51	18	1.5		
20	16QAM	50	50	16.51	16.45	16.37				
20	16QAM	100	0	16.40	16.53	16.45				
Channel										
Frequency (MHz)										
15	QPSK	1	0	18.56	18.51	18.57				
15	QPSK	1	37	18.53	18.56	18.50	19.5	0		
15	QPSK	1	74	18.34	18.24	18.19				
15	QPSK	36	0	18.47	18.48	18.47				
15	QPSK	36	36	18.40	18.34	18.34	19.5	0		
15	QPSK	75	0	18.50	18.50	18.50				
15	16QAM	1	0	18.53	18.35	18.25				
15	16QAM	1	37	18.36	18.29	18.30	19.5	0		
15	16QAM	1	74	18.27	18.34	18.32				
15	16QAM	36	0	18.80	18.87	18.83				
15	16QAM	36	20	17.77	17.79	17.72	19	0.5		
15	16QAM	36	39	17.65	17.76	17.60				
15	16QAM	75	0	17.63	17.68	17.65				
15	16QAM	1	0	17.73	17.68	17.78				
15	16QAM	1	37	17.74	17.68	17.65	19	0.5		
15	16QAM	1	74	17.60	17.57	17.64				
15	16QAM	36	0	17.71	17.74	17.63				
15	16QAM	36	20	17.77	17.79	17.72	19	0.5		
15	16QAM	36	39	17.65	17.76	17.60				
15	16QAM	75	0	17.65	17.68	17.60				
15	16QAM	1	0	16.46	16.48	16.46				
Channel										
Frequency (MHz)										
10	QPSK	1	0	18.60	18.57	18.55				
10	QPSK	1	25	18.49	18.48	18.49	19.5	0		
10	QPSK	1	49	18.62	18.59	18.63				
10	QPSK	25	0	18.60	18.49	18.49				
10	QPSK	25	12	18.53	18.54	18.44	19.5	0		
10	QPSK	50	0	18.56	18.50	18.40				
10	QPSK	50	0	18.54	18.62	18.49				
10	QPSK	1	0	18.46	18.44	18.46				
10	QPSK	1	25	18.49	18.29	18.29	19.5	0		
10	QPSK	1	49	18.32	18.39	18.32				
10	QPSK	25	0	17.81	17.93	17.83				
10	QPSK	25	12	17.80	17.77	17.84	19.5	0.5		
10	QPSK	50	0	17.81	17.74	17.75				
10	QPSK	50	0	17.76	17.81	17.76				
10	16QAM	1	0	17.54	17.61	17.57				
10	16QAM	1	25	17.56	17.55	17.57	19	0.5		
10	16QAM	1	49	17.64	17.63	17.63				
10	16QAM	25	0	16.55	16.60	16.50				
10	16QAM	25	12	16.55	16.60	16.50	19.5	1.5		
10	16QAM	50	0	16.51	16.43	16.37				
10	16QAM	50	0	16.51	16.43	16.40				
Channel										
Frequency (MHz)										
5	QPSK	1	0	18.63	18.60	18.50				
5	QPSK	1	12	18.56	18.58	18.61	19.5	0		
5	QPSK	1	24	18.44	18.45	18.44				
5	QPSK	12	0	18.54	18.50	18.50				
5	QPSK	12	7	18.44	18.49	18.48				
5	QPSK	25	0	18.50	18.49	18.39	19.5	0		
5	QPSK	25	12	18.52	18.61	18.48				
5	16QAM	1	0	18.48	18.44	18.42				
5	16QAM	1	12	18.52	18.53	18.57	19.5	0		
5	16QAM	1	24	18.38	18.40	18.40				
5	16QAM	12	0	17.81	17.83	17.84				
5	16QAM	12	7	17.74	17.75	17.75	19	0.5		
5	16QAM	12	13	17.72	17.80	17.78				
5	16QAM	25	0	17.64	17.83	17.65				
5	16QAM	25	12	17.71	17.77	17.80	19.5	0.5		
5	16QAM	1	12	17.76	17.68	17.68				
5	16QAM	1	24	17.73	17.69	17.67	19	0.5		
5	16QAM	1	36	18.07	18.05	18.04				
5	16QAM	12	7	16.61	16.58	16.58				
5	16QAM	12	13	16.39	16.35	16.38	19.5	1.5		
5	16QAM	25	0	16.49	16.49	16.39				



Band 26_Ant 0(DS18)

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	17.52	17.68	17.78		18.5	0
16	QPSK	1	37	17.06	17.21	17.27		18.5	0
16	QPSK	1	74	17.01	17.02	16.99		18.5	0
16	QPSK	36	4	17.20	17.20	17.26		18.5	0
16	QPSK	36	20	17.03	17.10	17.11		18.5	0
16	QPSK	36	39	17.13	17.23	17.22		18.5	0
16	QPSK	75	0	17.16	17.26	17.16		18.5	0
16	QPSK	1	0	17.06	17.10	17.04		18.5	0
16	QPSK	1	37	17.36	17.48	17.39		18.5	0
16	QPSK	1	74	17.00	17.00	17.00		18.5	0
16	QPSK	36	20	16.97	17.06	16.96		18.5	0
16	QPSK	75	0	17.03	17.14	17.01		18.5	0
16	QPSK	1	0	17.26	17.26	17.21		18.5	0
16	QPSK	1	37	17.25	17.25	17.24		18.5	0
16	QPSK	1	74	17.08	17.20	17.10		18.5	0
16	QPSK	36	0	17.13	17.25	17.23		18.5	0
16	QPSK	36	20	17.12	17.19	17.13		18.5	0
16	QPSK	36	39	17.11	17.21	17.16		18.5	0
16	QPSK	75	0	17.18	17.22	17.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	18.19	18.15	18.14		18.5	0
16	QPSK	1	37	18.06	18.10	18.09		18.5	0
16	QPSK	1	74	18.01	18.01	18.01		18.5	0
16	QPSK	36	20	17.93	18.03	18.02		18.5	0
16	QPSK	36	39	17.92	18.04	18.03		18.5	0
16	QPSK	75	0	17.95	18.05	17.95		18.5	0
16	QPSK	1	0	18.06	18.10	18.04		18.5	0
16	QPSK	1	37	18.36	18.48	18.39		18.5	0
16	QPSK	1	74	18.00	18.00	18.00		18.5	0
16	QPSK	36	20	17.97	18.06	17.96		18.5	0
16	QPSK	75	0	18.03	18.14	18.01		18.5	0
16	QPSK	1	0	18.26	18.26	18.21		18.5	0
16	QPSK	1	37	18.25	18.25	18.24		18.5	0
16	QPSK	1	74	18.08	18.20	18.10		18.5	0
16	QPSK	36	0	18.13	18.25	18.23		18.5	0
16	QPSK	36	20	18.12	18.19	18.13		18.5	0
16	QPSK	36	39	18.11	18.21	18.16		18.5	0
16	QPSK	75	0	18.18	18.22	18.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	19.19	19.15	19.14		18.5	0
16	QPSK	1	37	19.06	19.10	19.09		18.5	0
16	QPSK	1	74	19.01	19.01	19.01		18.5	0
16	QPSK	36	20	18.93	19.03	19.02		18.5	0
16	QPSK	36	39	18.92	19.04	19.03		18.5	0
16	QPSK	75	0	18.95	19.05	18.95		18.5	0
16	QPSK	1	0	19.06	19.10	19.04		18.5	0
16	QPSK	1	37	19.36	19.48	19.39		18.5	0
16	QPSK	1	74	19.00	19.00	19.00		18.5	0
16	QPSK	36	20	18.97	19.06	18.96		18.5	0
16	QPSK	75	0	19.03	19.14	19.01		18.5	0
16	QPSK	1	0	19.26	19.26	19.21		18.5	0
16	QPSK	1	37	19.25	19.25	19.24		18.5	0
16	QPSK	1	74	19.08	19.20	19.10		18.5	0
16	QPSK	36	0	19.13	19.25	19.23		18.5	0
16	QPSK	36	20	19.12	19.19	19.13		18.5	0
16	QPSK	36	39	19.11	19.21	19.16		18.5	0
16	QPSK	75	0	19.18	19.22	19.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	20.19	20.15	20.14		18.5	0
16	QPSK	1	37	20.06	20.10	20.09		18.5	0
16	QPSK	1	74	20.01	20.01	20.01		18.5	0
16	QPSK	36	20	19.93	20.03	20.02		18.5	0
16	QPSK	36	39	19.92	20.04	20.03		18.5	0
16	QPSK	75	0	19.95	20.05	19.95		18.5	0
16	QPSK	1	0	20.06	20.10	20.04		18.5	0
16	QPSK	1	37	20.36	20.48	20.39		18.5	0
16	QPSK	1	74	20.00	20.00	20.00		18.5	0
16	QPSK	36	20	19.97	20.06	19.96		18.5	0
16	QPSK	75	0	20.03	20.14	20.01		18.5	0
16	QPSK	1	0	20.26	20.26	20.21		18.5	0
16	QPSK	1	37	20.25	20.25	20.24		18.5	0
16	QPSK	1	74	20.08	20.20	20.10		18.5	0
16	QPSK	36	0	20.13	20.25	20.23		18.5	0
16	QPSK	36	20	20.12	20.19	20.13		18.5	0
16	QPSK	36	39	20.11	20.21	20.16		18.5	0
16	QPSK	75	0	20.18	20.22	20.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	21.19	21.15	21.14		18.5	0
16	QPSK	1	37	21.06	21.10	21.09		18.5	0
16	QPSK	1	74	21.01	21.01	21.01		18.5	0
16	QPSK	36	20	20.93	21.03	21.02		18.5	0
16	QPSK	36	39	20.92	21.04	21.03		18.5	0
16	QPSK	75	0	20.95	21.05	20.95		18.5	0
16	QPSK	1	0	21.06	21.10	21.04		18.5	0
16	QPSK	1	37	21.36	21.48	21.39		18.5	0
16	QPSK	1	74	21.00	21.00	21.00		18.5	0
16	QPSK	36	20	20.97	21.06	20.96		18.5	0
16	QPSK	75	0	21.03	21.14	21.01		18.5	0
16	QPSK	1	0	21.26	21.26	21.21		18.5	0
16	QPSK	1	37	21.25	21.25	21.24		18.5	0
16	QPSK	1	74	21.08	21.20	21.10		18.5	0
16	QPSK	36	0	21.13	21.25	21.23		18.5	0
16	QPSK	36	20	21.12	21.19	21.13		18.5	0
16	QPSK	36	39	21.11	21.21	21.16		18.5	0
16	QPSK	75	0	21.18	21.22	21.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	22.19	22.15	22.14		18.5	0
16	QPSK	1	37	22.06	22.10	22.09		18.5	0
16	QPSK	1	74	22.01	22.01	22.01		18.5	0
16	QPSK	36	20	21.93	22.03	22.02		18.5	0
16	QPSK	36	39	21.92	22.04	22.03		18.5	0
16	QPSK	75	0	21.95	22.05	21.95		18.5	0
16	QPSK	1	0	22.06	22.10	22.04		18.5	0
16	QPSK	1	37	22.36	22.48	22.39		18.5	0
16	QPSK	1	74	22.00	22.00	22.00		18.5	0
16	QPSK	36	20	21.97	22.06	21.96		18.5	0
16	QPSK	75	0	22.03	22.14	22.01		18.5	0
16	QPSK	1	0	22.26	22.26	22.21		18.5	0
16	QPSK	1	37	22.25	22.25	22.24		18.5	0
16	QPSK	1	74	22.08	22.20	22.10		18.5	0
16	QPSK	36	0	22.13	22.25	22.23		18.5	0
16	QPSK	36	20	22.12	22.19	22.13		18.5	0
16	QPSK	36	39	22.11	22.21	22.16		18.5	0
16	QPSK	75	0	22.18	22.22	22.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	23.19	23.15	23.14		18.5	0
16	QPSK	1	37	23.06	23.10	23.09		18.5	0
16	QPSK	1	74	23.01	23.01	23.01		18.5	0
16	QPSK	36	20	22.93	23.03	23.02		18.5	0
16	QPSK	36	39	22.92	23.04	23.03		18.5	0
16	QPSK	75	0	22.95	23.05	22.95		18.5	0
16	QPSK	1	0	23.06	23.10	23.04		18.5	0
16	QPSK	1	37	23.36	23.48	23.39		18.5	0
16	QPSK	1	74	23.00	23.00	23.00		18.5	0
16	QPSK	36	20	22.97	23.06	22.96		18.5	0
16	QPSK	75	0	23.03	23.14	23.01		18.5	0
16	QPSK	1	0	23.26	23.26	23.21		18.5	0
16	QPSK	1	37	23.25	23.25	23.24		18.5	0
16	QPSK	1	74	23.08	23.20	23.10		18.5	0
16	QPSK	36	0	23.13	23.25	23.23		18.5	0
16	QPSK	36	20	23.12	23.19	23.13		18.5	0
16	QPSK	36	39	23.11	23.21	23.16		18.5	0
16	QPSK	75	0	23.18	23.22	23.18		18.5	0
Channel									
Frequency (MHz)	Channel	RB Size	RB Offset	Power Low Ch1 Freq	Power High Ch2 Freq	Power Low Ch3 Freq	Power High Ch4 Freq	Tune-up (MHz)	MPE (dB)
16	QPSK	1	0	24.19	24.15	24.14		18.5	0
16	QPSK	1	37	24.06	24.10	24.09		18.5	0
16	QPSK	1	74	24.01	24.01	24.01		18.5	0
16	QPSK	36	20	23.93	24.03	24.02		18.5	0
16	QPSK	36	39	23.92	24.04	24.03		18.5	0



Band 26_Ant 0 (DS117)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CH1 26765	Power Mid CH2 26865	Power High CH3 26965	Tune-up freq (MHz)	MPE (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.15	18.35	18.55			
16	QPSK	1	37	18.43	18.57	18.78	19.5	0	
16	QPSK	1	74	18.22	18.52	18.26			
16	QPSK	36	4	18.25	18.63	18.41	19.5	0	
16	QPSK	36	20	18.42	18.57	18.40			
16	QPSK	36	39	18.35	18.50	18.38			
16	QPSK	75	0	18.40	18.62	18.53			
16	16QAM	1	0	18.35	18.57	18.23			
16	16QAM	1	37	18.28	18.28	18.19	19.5	0	
16	16QAM	1	74	18.53	18.55	18.50			
16	16QAM	36	0	18.41	18.52	18.37			
16	16QAM	36	20	18.30	18.45	18.29	19.5	0	
16	16QAM	36	39	18.42	18.51	18.36			
16	16QAM	75	0	18.32	18.48	18.45			
16	8QAM	1	0	18.44	18.58	18.57			
16	8QAM	1	37	18.41	18.53	18.43	19.5	0	
16	8QAM	1	74	18.37	18.51	18.45			
16	8QAM	36	0	18.42	18.52	18.43			
16	8QAM	36	20	18.40	18.45	18.38	19.5	0	
16	8QAM	36	39	18.57	18.65	18.55			
16	8QAM	75	0	18.58	18.63	18.61			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.80	18.58	18.51			
16	QPSK	1	49	18.20	18.17	18.25	19.5	0	
16	QPSK	25	0	18.44	18.41	18.49			
16	QPSK	25	12	18.37	18.43	18.42	19.5	0	
16	QPSK	25	25	18.42	18.49	18.38			
16	QPSK	50	0	18.31	18.34	18.37			
16	16QAM	1	0	18.45	18.41	18.36			
16	16QAM	1	25	18.20	18.20	18.21	19.5	0	
16	16QAM	1	49	18.47	18.45	18.40			
16	16QAM	1	49	18.43	18.40	18.45			
16	16QAM	25	12	18.42	18.38	18.34	19.5	0	
16	16QAM	25	25	18.45	18.40	18.47			
16	16QAM	50	0	18.45	18.41	18.37			
16	8QAM	1	0	18.58	18.40	18.53			
16	8QAM	1	25	18.43	18.40	18.42	19.5	0	
16	8QAM	1	49	18.40	18.40	18.40			
16	8QAM	1	49	18.43	18.40	18.45			
16	8QAM	25	12	18.45	18.40	18.48			
16	8QAM	25	25	18.55	18.50	18.53	19.5	0	
16	8QAM	50	0	18.51	18.51	18.52			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.65	18.59	18.54			
5	QPSK	1	12	18.48	18.44	18.47	19.5	0	
5	QPSK	1	24	18.36	18.26	18.35			
5	QPSK	12	0	18.38	18.46	18.50			
5	QPSK	12	7	18.36	18.40	18.38	19.5	0	
5	QPSK	12	14	18.35	18.44	18.43			
5	QPSK	25	0	18.32	18.38	18.38			
5	16QAM	1	0	18.29	18.23	18.30			
5	16QAM	1	12	18.25	18.27	18.27	19.5	0	
5	16QAM	1	24	18.43	18.40	18.44			
5	16QAM	12	0	18.50	18.51	18.49			
5	16QAM	12	7	18.40	18.30	18.42	19.5	0	
5	16QAM	12	14	18.47	18.47	18.48			
5	16QAM	25	0	18.39	18.36	18.33			
5	8QAM	1	0	18.49	18.57	18.59			
5	8QAM	1	12	18.52	18.40	18.42	19.5	0	
5	8QAM	1	24	18.44	18.40	18.40			
5	8QAM	12	7	18.48	18.47	18.48			
5	8QAM	12	7	18.41	18.38	18.39			
5	8QAM	12	14	18.44	18.50	18.51	19.5	0	
5	8QAM	25	0	18.56	18.50	18.53			
Channel									
Frequency (MHz)									
3	QPSK	1	0	18.51	18.50	18.50			
3	QPSK	1	8	18.43	18.49	18.38	19.5	0	
3	QPSK	1	14	18.31	18.18	18.31			
3	QPSK	8	0	18.44	18.43	18.48			
3	QPSK	8	4	18.40	18.40	18.36			
3	QPSK	8	7	18.38	18.37	18.49			
3	QPSK	15	0	18.41	18.35	18.33			
3	16QAM	1	0	18.29	18.30	18.30			
3	16QAM	1	8	18.19	18.26	18.23	19.5	0	
3	16QAM	1	8	18.22	18.38	18.30			
3	16QAM	8	0	18.51	18.41	18.41			
3	16QAM	8	4	18.42	18.31	18.30	19.5	0	
3	16QAM	8	4	18.41	18.40	18.41			
3	16QAM	15	0	18.33	18.35	18.45			
3	8QAM	1	0	18.50	18.56	18.49			
3	8QAM	1	8	18.45	18.39	18.40	19.5	0	
3	8QAM	1	14	18.45	18.30	18.46			
3	8QAM	8	0	18.48	18.44	18.51			
3	8QAM	8	4	18.41	18.40	18.41			
3	8QAM	8	7	18.52	18.51	18.51	19.5	0	
3	8QAM	15	0	18.56	18.50	18.53			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	18.58	18.59	18.53			
1.4	QPSK	1	3	18.46	18.35	18.48	19.5	0	
1.4	QPSK	1	5	18.17	18.31	18.26			
1.4	QPSK	3	0	18.37	18.48	18.38			
1.4	QPSK	3	1	18.40	18.45	18.49			
1.4	QPSK	3	3	18.43	18.42	18.45			
1.4	QPSK	8	0	18.33	18.30	18.43	19.5	0	
1.4	16QAM	1	0	18.31	18.27	18.33			
1.4	16QAM	1	3	18.17	18.18	18.28			
1.4	16QAM	1	5	18.41	18.40	18.45	19.5	0	
1.4	16QAM	3	0	18.41	18.40	18.45			
1.4	16QAM	3	3	18.47	18.54	18.52			
1.4	16QAM	8	0	18.39	18.32	18.37	19.5	0	
1.4	16QAM	8	0	18.54	18.48	18.52			
1.4	8QAM	1	0	18.47	18.44	18.43			
1.4	8QAM	1	3	18.47	18.49	18.39	19.5	0	
1.4	8QAM	3	0	18.51	18.43	18.46			
1.4	8QAM	3	1	18.40	18.41	18.53			
1.4	8QAM	8	0	18.56	18.54	18.54			
1.4	8QAM	8	0	18.52	18.50	18.50	19.5	0	

Band 26_Ant 1 (DS117)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low CH1 26765	Power Mid CH2 26865	Power High CH3 26965	Tune-up freq (MHz)	MPE (dB)	
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.15	18.35	18.55			
16	QPSK	1	37	18.67	18.92	18.57	20	0	
16	QPSK	1	74	18.62	18.61	18.53			
16	QPSK	36	4	18.75	18.75	18.75	20	0	
16	QPSK	36	20	18.68	18.81	18.77			
16	QPSK	36	39	18.73	18.78	18.66			
16	QPSK	75	0	18.71	18.87	18.83			
16	16QAM	1	0	18.86	18.94	18.85			
16	16QAM	1	37	18.63	18.67	18.79	20	0	
16	16QAM	1	74	18.95	19.00	18.93			
16	16QAM	36	0	18.77	18.85	18.80			
16	16QAM	36	20	18.73	18.84	18.74	20	0	
16	16QAM	36	39	18.86	18.97	18.86			
16	16QAM	75	0	18.94	18.98	18.97			
16	8QAM	1	0	18.82	18.87	18.74			
16	8QAM	1	37	18.92	19.00	18.99	20	0	
16	8QAM	1	74	18.81	18.89	18.77			
16	8QAM	36	0	18.85	18.86	18.75			
16	8QAM	36	20	18.84	18.95	18.75	20	0	
16	8QAM	36	39	18.83	18.88	18.81			
16	8QAM	75	0	18.75	18.82	18.61			
Channel									
Frequency (MHz)									
16	QPSK	1	0	18.89	18.99	18.88			
16	QPSK	1	49	18.83	18.96	18.86	20	0	
16	QPSK	1	49	18.92	18.91	18.88			
16	QPSK	25	0	18.78	18.87	18.82			
16	QPSK	25	12	18.77	18.83	18.82	20	0	
16	QPSK	25	25	18.66	18.63	18.68			
16	QPSK	50	0	18.74	18.78	18.74			
16	16QAM	1	0	18.90	18.90	18.94			
16	16QAM	1	25	18.82	18.80	18.72	20	0	
16	16QAM	1	49	18.91	18.93	18.93			
16	16QAM	1	49	18.93	18.76	18.73			
16	16QAM	25	12	18.75	18.81	18.83	20	0	
16	16QAM	25	25	18.92	18.86	18.84			
16	16QAM	50	0	18.93	18.84	18.87			
16	8QAM	1	0	18.82	18.73	18.80			



Reduced Power for Inter CA LTE receiver on

Band 2_Ant 4(DS18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./F/Freq. 18700	Power Ch./F/Freq. 18900	Power Ch./F/Freq. 19100	Time-up limit (s/min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.21	23.28	23.94	24	0	
20	QPSK	1	49	23.61	23.21	22.96			
20	QPSK	1	99	22.92	22.82	22.75			
20	QPSK	50	0	22.16	22.18	22.15			
20	QPSK	50	24	22.12	22.10	22.10	23	1	
20	QPSK	50	50	22.11	22.08	22.14			
20	QPSK	100	0	22.12	22.10	22.10			
20	16QAM	1	49	22.43	22.49	22.15			
20	16QAM	1	99	22.35	22.20	22.17	23	1	
20	16QAM	50	0	21.09	21.13	21.03			
20	16QAM	50	24	21.04	21.05	21.14			
20	16QAM	100	0	21.09	21.10	21.02			
20	16QAM	1	0	21.14	21.05	21.00	22	2	
20	16QAM	1	49	21.40	21.56	21.26			
20	16QAM	1	99	21.16	21.10	21.09			
20	16QAM	50	0	20.20	20.14	20.17			
20	16QAM	50	24	20.21	20.14	20.11	21	3	
20	16QAM	100	0	20.13	20.10	20.05			
20	16QAM	100	0	20.19	20.08	20.03			
20	16QAM	100	0	19.97	19.99	19.95			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.10	23.00	22.98	24	0	
15	QPSK	1	37	23.07	23.08	22.83			
15	QPSK	1	74	22.81	22.85	22.84			
15	QPSK	36	0	22.02	22.05	22.07			
15	QPSK	36	20	22.02	22.07	22.03	23	1	
15	QPSK	36	39	22.08	22.00	22.07			
15	QPSK	75	0	22.04	21.98	22.07			
15	16QAM	1	0	22.38	22.44	22.04			
15	16QAM	1	37	22.29	22.32	22.04	23	1	
15	16QAM	1	74	22.29	22.32	22.04			
15	16QAM	36	0	21.04	21.04	21.05			
15	16QAM	36	39	20.88	21.00	20.90			
15	16QAM	75	0	21.10	20.92	21.06	22	2	
15	16QAM	75	0	21.12	20.90	21.06			
15	16QAM	1	25	21.12	20.90	21.06			
15	16QAM	36	20	20.14	20.07	20.07			
15	16QAM	36	39	20.08	20.00	19.98	21	3	
15	16QAM	75	0	19.95	19.95	19.95			
15	16QAM	75	0	19.95	19.95	19.95			
15	16QAM	75	0	19.95	19.95	19.95			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.08	23.24	23.02	24	0	
5	QPSK	1	12	22.98	23.10	22.92			
5	QPSK	1	24	22.81	22.87	22.76			
5	QPSK	12	0	22.14	22.14	22.14			
5	QPSK	12	7	22.01	22.02	22.05	23	1	
5	QPSK	12	7	22.04	22.02	22.02			
5	QPSK	25	0	22.00	22.08	21.99			
5	16QAM	1	12	22.33	22.38	22.06			
5	16QAM	1	24	22.25	22.12	22.12	23	1	
5	16QAM	1	12	22.33	22.38	22.06			
5	16QAM	12	7	21.20	20.99	20.99			
5	16QAM	12	13	21.03	21.11	20.98			
5	16QAM	25	0	21.07	21.01	21.11	22	2	
5	16QAM	1	0	21.43	21.23	21.09			
5	16QAM	1	12	21.31	21.45	21.25			
5	16QAM	12	0	20.16	20.06	20.11			
5	16QAM	12	8	20.10	20.02	20.11	21	3	
5	16QAM	12	7	20.19	20.05	20.02			
5	16QAM	15	0	20.19	20.05	20.05			
5	16QAM	25	0	20.24	20.10	20.06			
Channel									
Frequency (MHz)									
3	QPSK	1	0	23.16	23.16	22.98	24	0	
3	QPSK	1	8	23.01	23.15	22.85			
3	QPSK	1	14	22.78	22.89	22.73			
3	QPSK	8	0	22.01	22.10	22.02			
3	QPSK	8	4	22.13	22.11	22.07	23	1	
3	QPSK	8	7	22.08	22.02	22.13			
3	QPSK	15	0	21.07	22.04	22.05			
3	16QAM	1	0	22.35	22.41	22.12			
3	16QAM	1	14	22.25	22.19	22.12	23	1	
3	16QAM	1	8	22.37	22.41	22.12			
3	16QAM	8	0	21.10	20.90	21.05			
3	16QAM	8	7	20.95	21.07	20.99			
3	16QAM	15	0	21.00	20.87	21.12	22	2	
3	16QAM	1	8	21.33	21.03	21.04			
3	16QAM	1	8	21.38	21.47	21.17			
3	16QAM	1	14	21.05	21.01	21.06			
3	16QAM	8	0	20.16	20.06	20.12	21	3	
3	16QAM	8	4	20.14	20.11	20.05			
3	16QAM	8	7	20.15	20.18	20.08			
3	16QAM	15	0	20.16	20.03	20.02			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.06	23.13	22.89	24	0	
1.4	QPSK	1	3	23.07	23.13	22.89			
1.4	QPSK	1	5	22.87	22.86	22.73			
1.4	QPSK	3	0	22.13	22.10	22.03			
1.4	QPSK	3	1	22.03	22.01	22.10	23	1	
1.4	QPSK	3	3	22.05	22.02	22.06			
1.4	QPSK	6	0	22.09	22.02	22.12			
1.4	16QAM	1	0	22.41	22.49	22.06			
1.4	16QAM	1	3	22.42	22.45	22.09	23	1	
1.4	16QAM	1	5	22.29	22.25	22.12			
1.4	16QAM	3	0	21.05	21.05	21.03			
1.4	16QAM	3	1	21.05	21.05	21.03			
1.4	16QAM	3	1	21.11	21.03	21.06	22	2	
1.4	16QAM	3	3	21.07	21.02	21.11			
1.4	16QAM	3	5	21.07	21.02	21.11			
1.4	16QAM	6	0	21.11	21.03	21.06			
1.4	16QAM	1	0	21.43	21.40	21.10	22	2	
1.4	16QAM	1	3	21.27	21.19	21.04			
1.4	16QAM	1	5	21.17	21.17	21.03			
1.4	16QAM	3	0	21.13	21.05	21.03			
1.4	16QAM	3	1	21.19	21.22	21.05	21	3	
1.4	16QAM	5	0	20.22	20.15	20.03			

Band 2_Ant 5(DS18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./F/Freq. 18700	Power Ch./F/Freq. 18900	Power Ch./F/Freq. 19100	Time-up limit (s/min)	MPR (dB)	
Channel									



UL Intra-CA Power

CA 7C - ANT3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	49	0	0	1	0	Full Power	21.31	23.00
21100	20902	QPSK	1	49	0	0	1	0	Full Power	21.52	23.00
21350	21152	QPSK	1	49	0	0	1	0	Full Power	21.81	23.00
20850	21048	QPSK	50	0	0	0	1	0	DSI 18	15.58	17.00
21100	20902	QPSK	50	0	0	0	1	0	DSI 18	15.61	17.00
21350	21152	QPSK	50	0	0	0	1	0	DSI 18	15.53	17.00
20850	21048	QPSK	50	0	0	0	1	0	DSI 17	17.70	19.00
21100	20902	QPSK	50	0	0	0	1	0	DSI 17	17.76	19.00
21350	21152	QPSK	50	0	0	0	1	0	DSI 17	17.71	19.00

CA 7C - ANT4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full Power	22.76	24.00
21100	20902	QPSK	1	0	0	0	1	0	Full Power	22.75	24.00
21350	21152	QPSK	1	0	0	0	1	0	Full Power	22.71	24.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 18	22.76	24.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 18	22.75	24.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 18	22.71	24.00
20850	21048	QPSK	50	0	0	0	1	0	DSI 17	20.38	21.50
21100	20902	QPSK	50	0	0	0	1	0	DSI 17	20.43	21.50
21350	21152	QPSK	50	0	0	0	1	0	DSI 17	20.34	21.50

CA_38C - ANT3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	0	0	0	1	0	Full Power	21.61	23.00
37901	38099	QPSK	1	0	0	0	1	0	Full Power	21.54	23.00
38150	37952	QPSK	1	0	0	0	1	0	Full Power	21.40	23.00
37850	38048	QPSK	50	24	0	0	1	0	DSI 18	18.44	19.50
37901	38099	QPSK	50	24	0	0	1	0	DSI 18	18.52	19.50
38150	37952	QPSK	50	24	0	0	1	0	DSI 18	18.46	19.50
37850	38048	QPSK	50	24	0	0	1	0	DSI 17	19.11	20.00
37901	38099	QPSK	50	24	0	0	1	0	DSI 17	19.08	20.00
38150	37952	QPSK	50	24	0	0	1	0	DSI 17	18.94	20.00

CA_38C - ANT4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	0	0	1	0	Full Power	23.19	24.50
37901	38099	QPSK	1	99	0	0	1	0	Full Power	23.07	24.50
38150	37952	QPSK	1	99	0	0	1	0	Full Power	23.11	24.50
37850	38048	QPSK	1	99	0	0	1	0	DSI 18	23.19	24.50
37901	38099	QPSK	1	99	0	0	1	0	DSI 18	23.07	24.50
38150	37952	QPSK	1	99	0	0	1	0	DSI 18	23.11	24.50
37850	38048	QPSK	1	99	0	0	1	0	DSI 17	22.86	24.00
37901	38099	QPSK	1	99	0	0	1	0	DSI 17	22.91	24.00
38150	37952	QPSK	1	99	0	0	1	0	DSI 17	22.93	24.00

CA_41C - ANT3											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	99	0	0	1	0	Full Power	21.30	22.50
40185	40383	QPSK	1	99	0	0	1	0	Full Power	21.12	22.50
40620	40422	QPSK	1	99	0	0	1	0	Full Power	21.13	22.50
41055	40857	QPSK	1	99	0	0	1	0	Full Power	21.07	22.50
41490	41292	QPSK	1	99	0	0	1	0	Full Power	20.89	22.50
39750	39948	QPSK	1	99	0	0	1	0	DSI 18	18.45	19.50
40185	40383	QPSK	1	99	0	0	1	0	DSI 18	18.39	19.50
40620	40422	QPSK	1	99	0	0	1	0	DSI 18	18.36	19.50
41055	40857	QPSK	1	99	0	0	1	0	DSI 18	18.28	19.50
41490	41292	QPSK	1	99	0	0	1	0	DSI 18	18.10	19.50
39750	39948	QPSK	1	99	0	0	1	0	DSI 17	18.45	19.50
40185	40383	QPSK	1	99	0	0	1	0	DSI 17	18.39	19.50
40620	40422	QPSK	1	99	0	0	1	0	DSI 17	18.36	19.50
41055	40857	QPSK	1	99	0	0	1	0	DSI 17	18.28	19.50
41490	41292	QPSK	1	99	0	0	1	0	DSI 17	18.10	19.50

CA_41C - ANT4											
Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
39750	39948	QPSK	1	99	0	0	1	0	Full Power	22.80	24.00
40185	40383	QPSK	1	99	0	0	1	0	Full Power	20.73	24.00
40620	40422	QPSK	1	99	0	0	1	0	Full Power	22.72	24.00
41055	40857	QPSK	1	99	0	0	1	0	Full Power	22.67	24.00
41490	41292	QPSK	1	99	0	0	1	0	Full Power	22.75	24.00
39750	39948	QPSK	1	99	0	0	1	0	DSI 18	22.80	24.00
40185	40383	QPSK	1	99	0	0	1	0	DSI 18	20.73	24.00
40620	40422	QPSK	1	99	0	0	1	0	DSI 18	22.72	24.00
41055	40857	QPSK	1	99	0	0	1	0	DSI 18	22.67	24.00
41490	41292	QPSK	1	99	0	0	1	0	DSI 18	22.75	24.00
39750	39948	QPSK	1	99	0	0	1	0	DSI 17	22.80	24.00
40185	40383	QPSK	1	99	0	0	1	0	DSI 17	20.73	24.00
40620	40422	QPSK	1	99	0	0	1	0	DSI 17	22.72	24.00
41055	40857	QPSK	1	99	0	0	1	0	DSI 17	22.67	24.00
41490	41292	QPSK	1	99	0	0	1	0	DSI 17	22.75	24.00



DL CA Power

		Full Power														
		2CC														
Configure		CA Configuration	PCC							SCC					Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx-Power (dBm)	W/O CA Tx-Power (dBm)		
Inter-Band		CA_2A-5A	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	22.88	23.26	
		CA_4A-5A	4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	23.16	23.37	
		CA_4A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	23.12	23.37	
		CA_5A-38A	5	10	836.5	20525	QPSK	1	0	38	20	2595	38000	24.11	24.18	
		CA_5A-41A	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	24.12	24.18	
		CA_12A-66A	12	10	707.5	23095	QPSK	1	0	66	20	2155	66886	24.17	24.24	
Inter-Band	Non-Contiguous	CA_26A-41A	26	15	831.5	26865	QPSK	1	0	41	20	2593	40620	23.94	24.22	
		CA_4A-4A	4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	23.03	23.37	
	Contiguous	CA_7B	7	15	2532.6	21076	QPSK	1	0	7	5	2661.9	3169	23.01	23.16	
		CA_38C	38	20	2580	37850	QPSK	1	99	38	20	2599.80	38048	23.70	23.73	

3CC																				
Configure		CA Configuration	PCC								SCC1				SCC2				Power	
			LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA TxPower (dBm)	W/O CA TxPower (dBm)	
Inter-Band		CA_4A-7C	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	23.12	23.37	
		CA_5A-7A-7A	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	5	2622.5	2775	24.04	24.18	
Intra-Band	Contiguous	CA_26A-41C	26	15	831.5	26865	QPSK	1	0	41	5	2687.5	41565	41	20	2675.8	41448	23.92	24.22	
		CA_41A-41A-41A	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	41	20	2675.8	41448	23.21	23.78	
		CA_41A-41C	41	20	2593	40620	QPSK	1	99	41	5	2687.5	41565	41	20	2675.8	41448	23.33	23.78	
		CA_41D	41	20	2593	40620	QPSK	1	99	41	20	2612.8	40818	41	20	2632.6	41016	23.13	23.76	

4CC																						
Configure	CA Configuration	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA TxPower (dBm)	W/O CA TxPower (dBm)
Intra-Band	CA_5A-7A-66A-66A	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	66	20	2155	66886	66	5	2197.5	67311	24.15	24.18

5CC																										
Configure	CA Configuration	PCC							SCC1				SCC2				SCC3				SCC4				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx Power (dBm)	W/O CA Tx Power (dBm)
Inter-Band	CA_5A-7C-66A-66A	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	20	2660.2	3152	66	20	2155	66886	66	5	2197.5	67311	24.13	24.18

Conducted full Power for NR SA

n2_Ant 3 (Default)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	MFR	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.05	22.28	22.67			
20	QPSK	1	53	22.05	22.18	22.92	23.2		0.0
20	QPSK	1	104	22.05	22.15	21.96			
20	QPSK	50	3	21.08	21.17	21.67	22.7		0.5
20	QPSK	50	28	22.01	22.11	21.93	23.2		0.5
20	QPSK	50	56	21.03	21.12	20.94	22.7		0.5
20	QPSK	100	0	21.08	21.11	20.96			
20	16QAM	1	1	21.12	21.49	22.95	22.2		1.0
20	16QAM	1	1	19.85	19.76	19.34	20.7		2.5
20	256QAM	1	1	17.33	17.12	17.43	18.7		4.5
Channel									
371500	371500	371500	385500	Time-up time		N/A			
Frequency (MHz)									
15	QPSK	1	1	22.20	22.14	22.04	22.4		0.0
Channel									
372000	372000	372000	381000	Time-up time		N/A			
Frequency (MHz)									
10	QPSK	1	1	22.15	21.90	21.80	22.2		0.0
Channel									
1862.5	1860	1860	1867.5	Time-up time		N/A			
Frequency (MHz)									
5	QPSK	1	1	22.00	21.98	21.91	22.5		0.5

n2_Ant 4 (Default)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	MPE	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.08	22.16	22.58			
20	QPSK	1	53	22.01	22.08	22.48	24.2	0.0	
20	QPSK	1	104	22.03	22.05	22.45			
20	QPSK	50	3	21.08	21.08	21.54	22.7	0.5	
20	QPSK	50	28	22.09	22.01	22.51	24.2	0.5	
20	QPSK	50	56	21.09	21.08	21.49	22.7	0.5	
20	QPSK	100	0	21.07	21.06	21.50			
20	16QAM	1	1	21.01	21.08	21.54	22.2	1.0	
20	16QAM	1	1	20.32	20.12	20.15	21.7	2.5	
20	256QAM	1	1	18.24	18.12	18.50	19.7	4.5	
Channel									
371500	371500	371500	385500	Time-up time		N/A			
Frequency (MHz)									
15	QPSK	1	1	22.49	22.34	22.28	24.2	0.0	
Channel									
371500	371500	371500	381000	Time-up time		N/A			
Frequency (MHz)									
10	QPSK	1	1	22.31	22.30	22.08	24.2	0.0	
Channel									
1862.5	1860	1860	1867.5	Time-up time		N/A			
Frequency (MHz)									
5	QPSK	1	1	22.28	22.03	21.91	24.2	0.5	

n5_Ant 0 (Default)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	MPTS	
Channel									
Frequency (MHz)									
20	QPSK	1	1	23.02	23.03	23.03			
20	QPSK	1	53	22.92	22.97	22.85	24.2	0.0	
20	QPSK	1	104	22.87	22.89	22.84			
20	QPSK	50	3	22.42	22.49	22.37	22.7	0.5	
20	QPSK	50	28	22.98	22.91	22.84	24.2	0.5	
20	QPSK	50	56	22.34	22.33	22.32	22.7	0.5	
20	QPSK	100	0	22.46	22.45	22.42	22.7	0.5	
20	16QAM	1	1	22.50	22.58	22.58	22.2	1.0	
20	16QAM	1	1	21.15	20.97	21.16	21.7	2.5	
20	256QAM	1	1	19.05	18.98	19.05	19.7	4.5	
Channel									
186500	187300	186500	Time-up time		N/A				
Frequency (MHz)									
15	QPSK	1	1	22.98	22.94	22.93	24.2	0.0	
Channel									
186500	187300	186500	Time-up time		N/A				
Frequency (MHz)									
10	QPSK	1	1	22.97	22.91	22.84	24.2	0.0	
Channel									
186500	187300	186500	Time-up time		N/A				
Frequency (MHz)									
5	QPSK	1	1	22.96	22.73	22.74	24.2	0.5	

n5_Ant 1 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	
Channel							
				16400	16700	16900	
Frequency (MHz)				16.4	16.7	16.9	
20	QPSK	1	1	23.11	23.20	23.32	
20	QPSK	1	13	23.03	23.09	23.35	24.2
20	QPSK	1	116	22.95	22.99	23.35	
20	QPSK	50	0	22.53	22.48	22.42	23.7
20	QPSK	50	38	22.55	22.54	22.53	24.2
20	QPSK	50	56	22.52	22.39	22.18	
20	QPSK	100	0	22.46	22.36	22.26	
20	16QAM	1	1	22.49	22.52	22.27	23.7
20	16QAM	1	1	20.85	20.98	20.79	21.7
20	256QAM	1	1	18.97	18.93	18.76	19.7
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
10	QPSK	1	1	23.17	23.11	23.03	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
10	QPSK	1	1	23.08	22.97	22.86	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
5	QPSK	1	1	22.52	22.76	22.73	24.2

n7_Ant 3 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	
Channel							
				16400	16700	16900	
Frequency (MHz)				16.4	16.7	16.9	
50	QPSK	1	1	21.62	21.68	21.91	
50	QPSK	1	135	21.65	21.68	21.88	23.2
50	QPSK	1	264	21.63	21.67	21.84	
50	QPSK	135	0	21.51	21.30	21.28	22.7
50	QPSK	135	66	21.57	21.53	21.53	23.2
50	QPSK	135	135	21.49	21.37	21.39	
50	QPSK	270	0	21.38	21.36	21.38	22.7
50	16QAM	1	1	21.05	21.38	21.43	22.2
50	16QAM	1	1	19.61	19.74	19.92	20.7
50	256QAM	1	1	17.67	17.48	17.82	19.7
Channel							
Frequency (MHz)				16400	16700	16900	Time-up time (dBm)
40	QPSK	1	1	21.64	22.03	21.86	23.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
30	QPSK	1	1	21.62	22.00	21.85	23.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
20	QPSK	1	1	21.62	22.07	21.82	22.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
20	QPSK	1	1	21.47	22.03	21.85	23.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
15	QPSK	1	1	21.69	21.98	21.89	23.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
10	QPSK	1	1	21.62	21.99	21.81	23.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
5	QPSK	1	1	21.68	22.01	21.83	23.2

n7_Ant 4 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	
Channel							
				16400	16700	16900	
Frequency (MHz)				16.4	16.7	16.9	
50	QPSK	1	1	22.38	22.63	22.37	
50	QPSK	1	135	22.46	22.49	22.45	24.2
50	QPSK	1	264	22.30	22.58	22.55	
50	QPSK	135	0	21.29	21.32	21.41	23.7
50	QPSK	135	66	22.42	22.53	22.51	24.2
50	QPSK	135	135	21.71	21.85	21.84	
50	QPSK	270	0	21.36	21.61	21.34	
50	16QAM	1	1	21.59	21.37	21.55	23.2
50	16QAM	1	1	19.98	19.98	19.91	21.7
50	256QAM	1	1	17.92	18.03	17.71	19.7
Channel							
Frequency (MHz)				16400	16700	16900	Time-up time (dBm)
40	QPSK	1	1	22.34	22.51	22.24	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
30	QPSK	1	1	22.38	22.58	22.29	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
20	QPSK	1	1	22.28	22.49	22.33	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
20	QPSK	1	1	22.30	22.51	22.33	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
15	QPSK	1	1	22.31	22.43	22.38	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
10	QPSK	1	1	22.26	22.49	22.32	24.2
Channel							
Frequency (MHz)				16500	16700	16900	Time-up time (dBm)
5	QPSK	1	1	22.27	22.57	22.28	24.2

n12_Ant 0 (Default)								
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 141300	Power Minima Ch. Freq. 141500	Power High Ch. Freq. 141700	Tune-up time (min)	SNR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.23	23.26	23.23		
15	QPSK	1	40	23.15	23.26	23.19	24.2	0.0
15	QPSK	1	77	23.15	23.24	23.16		
15	QPSK	36	0	22.72	22.72	22.72	23.7	0.5
15	QPSK	36	26	23.15	23.22	23.18	24.2	0.0
15	QPSK	36	43	22.58	22.58	22.58		
15	QPSK	36	43	22.58	22.58	22.58	23.7	0.5
15	QPSK	72	0	22.62	22.66	22.65		
15	QPSK	72	0	22.62	22.66	22.65	23.7	1.0
15	QPSK	72	0	22.62	22.66	22.65	23.7	2.5
15	QPSK	72	0	22.62	22.66	22.65	23.7	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	23.07	22.98	23.08	24.2	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.55	22.08	22.10	24.2	0.0

n12_Ant 1 (Default)								
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 141300	Power Minima Ch. Freq. 141500	Power High Ch. Freq. 141700	Tune-up time (min)	SNR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.67	22.91	22.88		
15	QPSK	1	40	22.35	22.88	22.88	24.2	0.0
15	QPSK	1	77	22.74	22.85	22.85		
15	QPSK	36	3	21.73	21.77	21.72	23.7	0.5
15	QPSK	36	26	22.74	22.75	22.75	24.2	0.0
15	QPSK	36	43	21.68	21.68	21.68		
15	QPSK	36	43	21.68	21.68	21.68	23.7	0.5
15	QPSK	72	0	21.39	21.46	21.39		
15	QPSK	72	0	21.39	21.46	21.39	23.2	1.0
15	QPSK	72	0	21.39	21.46	21.39	23.7	2.5
15	QPSK	72	0	21.39	21.46	21.39	23.7	4.5
Channel								
Frequency (MHz)								
10	QPSK	1	1	22.79	22.72	22.88	24.2	0.0
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.68	22.71	22.75	24.2	0.0

n13_Ant 0 (Default)								
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 155500	Power Minima Ch. Freq. 156000	Power High Ch. Freq. 156500	Tune-up time (min)	SNR (dB)
Channel								
Frequency (MHz)								
10	QPSK	1	1		23.05			
10	QPSK	1	26		23.03		24.2	0.0
10	QPSK	1	55		23.05			
10	QPSK	26	0		22.01		23.7	0.5
10	QPSK	26	14		23.05		24.2	0.0
10	QPSK	26	27		22.07		23.7	0.5
10	QPSK	42	0		21.66			
10	QPSK	42	0		21.77		23.2	1.0
10	QPSK	42	0		21.77		23.7	2.5
10	QPSK	42	0		21.77		23.7	4.5
Channel								
Frequency (MHz)								
5	QPSK	1	1	22.96	22.68	22.58	24.2	0.0

n13_Ant 1 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				22.84			
10	QPSK	1	1	22.76			
10	QPSK	1	30	22.87		24.2	0.0
10	QPSK	20	0	21.61		23.7	0.5
10	QPSK	20	14	22.05		24.2	0.5
10	QPSK	20	27	21.89		23.7	0.5
10	QPSK	20	0	21.96			
10	16QAM	1	1	21.63		23.2	1.0
10	16QAM	1	1	20.23		21.7	2.5
10	256QAM	1	1	18.32		19.7	4.5
Channel							
Frequency (MHz)				15590	15650	15690	Turn-up time (dBm)
5	QPSK	1	1	22.60	22.77	22.73	24.2 0.0

n25_Ant 3 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				1.81	1.81.5	1.80	
40	QPSK	1	1	22.15	22.29	22.15	
40	QPSK	1	108	22.20	22.21	22.24	
40	QPSK	1	214	22.15	22.16	22.01	23.2 0.0
40	QPSK	108	3	21.75	21.89	21.69	22.7 0.5
40	QPSK	108	94	22.10	22.01	22.13	23.2 0.5
40	QPSK	108	108	21.68	21.73	21.72	
40	QPSK	108	108	21.68	21.73	21.72	22.7 0.5
40	QPSK	216	0	21.67	21.72	21.69	
40	16QAM	1	1	21.64	21.69	21.65	22.2 1.0
40	16QAM	1	1	20.23	20.37	20.45	20.7 2.5
40	256QAM	1	1	18.14	18.26	18.27	18.7 4.5
Channel							
Frequency (MHz)				37300	37600	38000	Turn-up time (dBm)
30	QPSK	1	1	22.14	22.23	22.12	20.2 0.0
Frequency (MHz)				37200	37500	37800	Turn-up time (dBm)
25	QPSK	1	1	22.14	22.17	22.10	20.2 0.0
Frequency (MHz)				1880.5	1880.5	1880.5	1880.5
Channel				1880	1880.5	1880	1880
Frequency (MHz)				1880	1880.5	1880	1880
20	QPSK	1	1	22.13	22.23	22.10	22.2 0.0
Frequency (MHz)				37100	37600	38100	Turn-up time (dBm)
15	QPSK	1	1	22.10	22.26	22.13	23.2 0.0
Channel				37100	37600	38000	Turn-up time (dBm)
Frequency (MHz)				1880	1880.5	1880	1880
10	QPSK	1	1	22.10	22.22	22.14	23.2 0.0
Channel				37000	37600	38200	Turn-up time (dBm)
Frequency (MHz)				1880.5	1880.5	1880.5	1880.5
5	QPSK	1	1	22.09	22.24	22.05	23.2 0.0

n25_Ant 4 (Default)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				1.80	1.80.5	1.80	
40	QPSK	1	1	22.84	23.01	22.87	
40	QPSK	1	108	22.83	22.89	22.85	
40	QPSK	1	214	22.80	22.85	22.81	24.2 0.0
40	QPSK	108	3	22.38	22.38	22.38	23.7 0.5
40	QPSK	108	94	22.84	22.83	22.80	24.2 0.5
40	QPSK	108	108	22.37	22.33	22.42	
40	QPSK	108	108	22.37	22.33	22.42	23.7 0.5
40	QPSK	216	0	22.46	22.45	22.49	
40	16QAM	1	1	22.41	22.43	22.40	23.2 1.0
40	16QAM	1	1	20.85	20.73	21.12	21.7 2.5
40	256QAM	1	1	18.06	18.01	18.09	18.7 4.5
Channel							
Frequency (MHz)				37400	37600	38000	Turn-up time (dBm)
30	QPSK	1	1	22.81	22.82	22.79	24.2 0.0
Frequency (MHz)				37200	37600	38000	Turn-up time (dBm)
25	QPSK	1	1	22.75	22.82	22.83	24.2 0.0
Channel				1880.5	1880.5	1880.5	1880.5
Frequency (MHz)				1880	1880.5	1880	1880
20	QPSK	1	1	22.19	22.19	22.12	24.2 0.0
Frequency (MHz)				37100	37600	38100	Turn-up time (dBm)
15	QPSK	1	1	22.14	22.10	22.13	24.2 0.0
Channel				37100	37600	38000	Turn-up time (dBm)
Frequency (MHz)				1880	1880.5	1880	1880
10	QPSK	1	1	22.81	22.84	22.79	24.2 0.0
Channel				37000	37600	38200	Turn-up time (dBm)
Frequency (MHz)				1880.5	1880.5	1880.5	1880.5
5	QPSK	1	1	22.80	22.82	22.84	24.2 0.0



n26_Ant 0 (Default)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Max Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up time (dBm)
Channel							
Frequency [MHz]							
20	QPSK	1	1	22.84	22.87	22.90	24.2
Channel							
Frequency [MHz]							
20	QPSK	1	53	22.85	22.87	22.90	24.2
20	QPSK	1	104	22.79	22.85	22.90	24.2
20	QPSK	50	5	22.97	22.98	22.99	23.7
20	QPSK	50	28	22.91	22.92	22.93	24.2
20	QPSK	50	56	22.38	22.39	22.40	23.7
20	QPSK	100	0	22.38	22.40	22.42	23.7
20	16QAM	1	1	22.61	22.67	22.69	23.2
20	16QAM	1	1	20.86	21.05	20.94	21.7
20	256QAM	1	1	18.80	19.80	19.30	19.7
Channel							
Frequency [MHz]							
15	QPSK	1	1	22.74	22.81	22.72	24.2
Channel							
Frequency [MHz]							
10	QPSK	1	1	22.68	22.72	22.68	24.2
Channel							
Frequency [MHz]							
5	QPSK	1	1	816.5	817.5	816.5	24.2

n26_Ant 1 (Default)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Max Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up time (dBm)
Channel							
Frequency [MHz]							
20	QPSK	1	1	23.18	23.31	23.28	24.2
20	QPSK	1	53	23.17	23.28	23.24	24.2
20	QPSK	1	104	23.15	23.25	23.10	24.2
20	QPSK	50	5	22.83	22.72	22.83	23.7
20	QPSK	50	28	23.21	23.20	23.20	24.2
20	QPSK	50	56	22.75	22.82	22.71	23.7
20	QPSK	100	0	22.75	22.76	22.76	23.7
20	16QAM	1	1	22.82	22.88	22.85	23.2
20	16QAM	1	1	20.88	20.92	21.05	21.7
20	256QAM	1	1	18.80	19.80	19.30	19.7
Channel							
Frequency [MHz]							
15	QPSK	1	1	23.08	23.21	23.20	24.2
Channel							
Frequency [MHz]							
10	QPSK	1	1	23.14	23.26	23.22	24.2
Channel							
Frequency [MHz]							
5	QPSK	1	1	23.10	23.24	23.20	24.2

n66_Ant 3 (Default)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Max Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up time (dBm)
Channel							
Frequency [MHz]							
40	QPSK	1	1	22.08	22.22	22.08	23.2
40	QPSK	1	104	22.09	22.07	22.10	23.2
40	QPSK	1	214	22.11	22.06	22.02	23.2
40	QPSK	108	5	22.13	22.08	22.02	23.2
40	QPSK	108	54	22.13	22.10	22.08	23.2
40	QPSK	108	108	22.81	22.07	22.08	23.2
40	QPSK	216	0	22.13	22.10	22.08	23.2
40	16QAM	1	1	21.08	21.10	21.14	22.2
40	16QAM	1	1	20.94	20.98	20.92	20.7
40	256QAM	1	1	18.41	18.80	18.79	18.7
Channel							
Frequency [MHz]							
30	QPSK	1	1	21.99	22.10	22.04	22.2
Channel							
Frequency [MHz]							
20	QPSK	1	1	22.05	22.21	22.07	23.2
Channel							
Frequency [MHz]							
15	QPSK	1	1	22.10	22.21	22.22	23.2
Channel							
Frequency [MHz]							
10	QPSK	1	1	22.06	22.12	22.05	23.2
Channel							
Frequency [MHz]							
5	QPSK	1	1	22.07	22.13	22.08	23.2

n66_Ant 4 (Default)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power Max Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Turn-up time (dBm)
Channel							
Frequency [MHz]							
40	QPSK	1	1	22.06	22.10	22.03	24.2
40	QPSK	1	104	22.04	22.02	22.08	24.2
40	QPSK	1	214	22.06	22.07	22.01	23.7
40	QPSK	108	5	22.04	22.00	21.98	23.7
40	QPSK	108	54	22.03	22.01	22.06	24.2
40	QPSK	108	108	22.10	22.14	22.01	23.7
40	QPSK	216	0	22.04	22.06	22.06	23.7
40	16QAM	1	1	21.08	21.40	21.08	23.2
40	16QAM	1	1	20.94	20.90	20.80	21.7
40	256QAM	1	1	18.41	18.82	18.42	18.7
Channel							
Frequency [MHz]							
30	QPSK	1	1	22.02	22.10	22.08	24.2
Channel							
Frequency [MHz]							
20	QPSK	1	1	22.00	22.10	22.00	24.2
Channel							
Frequency [MHz]							
15	QPSK	1	1	22.06	22.10	22.06	24.2
Channel							
Frequency [MHz]							
10	QPSK	1	1	22.01	22.12	22.05	24.2
Channel							
Frequency [MHz]							
5	QPSK	1	1	22.08	22.09	22.02	24.2



n38_Ant 3 (Default)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Max Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (min)			
Channel										
Frequency [MHz]										
30	QPSK	1	1	21.52	21.54	21.55	22.7			
30	QPSK	1	36	21.52	21.51	21.45		0.0		
30	QPSK	1	75	21.41	21.47	21.45			0.0	
30	QPSK	36	0	21.46	21.48	21.47				0.0
30	QPSK	36	37	21.44	21.48	21.46				
30	QPSK	75	0	21.47	21.48	21.45	22.7			
30	QPSK	75	0	21.47	21.48	21.45		0.0		
30	QPSK	75	0	21.47	21.48	21.45			0.0	
30	QPSK	75	0	21.47	21.48	21.45				0.0
30	QPSK	75	0	21.47	21.48	21.45				
Channel										
Frequency [MHz]										
30	QPSK	1	1	21.44	21.46	21.49	22.7			

n38_Ant 4 (Default)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Max Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (min)	LPR (dB)		
Channel										
Frequency [MHz]										
30	QPSK	1	1	21.52	21.54	21.55	24.2	0.0		
30	QPSK	1	36	22.95	22.94	22.88				
30	QPSK	1	75	23.06	23.07	23.02				
30	QPSK	36	0	22.44	22.57	22.43				
30	QPSK	36	37	22.39	22.50	22.49				
30	QPSK	75	0	22.46	22.54	22.53	23.7	0.0		
30	QPSK	75	0	22.46	22.54	22.53				
30	QPSK	75	0	22.46	22.54	22.53				
30	QPSK	75	0	22.46	22.54	22.53				
30	QPSK	75	0	22.46	22.54	22.53				
30	84QAM	1	1	21.12	21.81	21.05	21.7	4.2		
30	84QAM	1	1	21.12	21.81	21.05				
30	84QAM	1	1	21.12	21.81	21.05				
30	84QAM	1	1	21.12	21.81	21.05				
30	84QAM	1	1	21.12	21.81	21.05				
Channel										
Frequency [MHz]										
30	QPSK	1	1	22.94	22.94	22.95	24.2	0.0		

n41_Ant 3 (Default)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Max Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (min)	
Channel								
Frequency [MHz]								
100	QPSK	1	1	21.13	21.56	21.17	22.7	
100	QPSK	1	137	20.95	21.18	20.89		
100	QPSK	1	271	21.02	20.97	20.95		
100	QPSK	135	0	20.23	20.33	20.33		
100	QPSK	135	86	21.26	21.26	20.88		
100	QPSK	135	138	20.22	20.24	20.21	22.2	
100	QPSK	270	0	20.20	20.20	20.20		
100	QPSK	270	0	20.20	20.20	20.20		
100	QPSK	270	0	20.20	20.20	20.20		
100	QPSK	270	0	20.20	20.20	20.20		
100	84QAM	1	1	19.15	19.24	19.17	19.2	
100	84QAM	1	1	19.92	19.94	19.94		
100	84QAM	1	1	19.92	19.94	19.94		
100	84QAM	1	1	19.92	19.94	19.94		
100	84QAM	1	1	19.92	19.94	19.94		
Channel								
Frequency [MHz]								
90	QPSK	1	1	21.03	21.36	21.07	22.7	
Channel								
Frequency [MHz]								
80	QPSK	1	1	21.08	21.36	21.14	22.7	
Channel								
Frequency [MHz]								
40	QPSK	1	1	21.11	21.40	21.18	22.7	
Channel								
Frequency [MHz]								
50	QPSK	1	1	21.04	21.40	21.19	22.7	
Channel								
Frequency [MHz]								
40	QPSK	1	1	21.07	21.53	21.16	22.7	
Channel								
Frequency [MHz]								
30	QPSK	1	1	21.03	21.53	21.11	22.7	
Channel								
Frequency [MHz]								
20	QPSK	1	1	21.08	21.30	21.10	22.7	

n41_Ant 4 (Default)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. 1 [Watt]	Power Max Ch. 1 [Watt]	Power High Ch. 1 [Watt]	Turn-up time (min)	
Channel								
Frequency [MHz]								
100	QPSK	1	1	20.74	20.77	20.73	24.2	
100	QPSK	1	137	22.80	22.71	22.80		
100	QPSK	1	271	22.70	22.71	22.80		
100	QPSK	135	0	21.73	21.70	21.66		
100	QPSK	135	86	22.76	22.73	22.65		
100	QPSK	135	138	21.87	21.88	21.78	23.7	
100	QPSK	270	0	21.60	21.75	21.60		
100	84QAM	1	1	21.41	21.55	21.35		
100	84QAM	1	1	19.88	19.85	19.88		
100	84QAM	1	1	17.73	17.85	17.77		
Channel								
Frequency [MHz]								
90	QPSK	1	1	22.73	22.70	22.70	24.2	
Channel								
Frequency [MHz]								
80	QPSK	1	1	22.68	22.60	22.65	24.2	
Channel								
Frequency [MHz]								
40	QPSK	1	1	22.72	22.80	22.72	24.2	
Channel								
Frequency [MHz]								
50	QPSK	1	1	22.69	22.78	22.63	24.2	
Channel								
Frequency [MHz]								
40	QPSK	1	1	22.68	22.78	22.65	24.2	
Channel								
Frequency [MHz]								
30	QPSK	1	1	22.73	22.78	22.70	24.2	
Channel								
Frequency [MHz]								
20	QPSK	1	1	22.71	22.74	22.68	24.2	

n2_Ant 3 (DS18)									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR	
Channel									
Frequency [MHz]				1840	1840	1840			
20	QPSK	1	1	15.61	15.73	15.91	16.7	0.0	
20	QPSK	1	53	15.65	15.65	15.45			
20	QPSK	1	104	15.51	15.37	15.43			
20	QPSK	50	0	15.50	15.04	15.48			
20	QPSK	50	28	15.55	15.08	15.53			
20	QPSK	50	56	15.54	15.63	15.55	16.7	0.0	
20	QPSK	100	0	15.48	15.01	15.56	16.7	0.0	
20	QPSK	100	1	15.48	15.53	15.33			
20	16QAM	1	1	15.65	15.71	15.31			
20	16QAM	1	5	15.45	15.42	15.45			
Channel									
Frequency [MHz]				171500	171600	165500	Tune-up time	SFR	
Frequency [MHz]				1857.5	1860	1857.5	(min)	(dB)	
15	QPSK	1	1	15.53	15.68	15.38	16.7	0.0	
Channel									
Frequency [MHz]				1855	1860	1855	(min)	(dB)	
10	QPSK	1	1	15.53	15.73	15.30	16.7	0.0	
Channel									
Frequency [MHz]				1852.5	1860	1857.5	(min)	(dB)	
5	QPSK	1	1	15.55	15.66	15.36	16.7	0.0	

Reduced Power for NR SA receiver on									
n2_Ant 4 (DS18)									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR (dB)	
Channel									
Frequency [MHz]				1840	1840	1840			
20	QPSK	1	1	22.68	22.76	22.58	24.2	0.0	
20	QPSK	1	53	22.61	22.68	22.48			
20	QPSK	1	104	22.53	22.45	22.43			
20	QPSK	50	5	21.58	21.88	21.54	23.7	0.5	
20	QPSK	50	28	22.38	22.03	22.53	24.2	0.5	
20	QPSK	50	56	21.60	21.88	21.40	23.7	0.5	
20	QPSK	100	0	21.67	21.86	21.38	23.2	1.8	
20	16QAM	1	1	21.51	21.88	21.54			
20	16QAM	1	1	20.32	20.12	20.15	21.7	2.5	
20	16QAM	1	1	19.24	19.12	19.30	19.7	4.5	
Channel									
Frequency [MHz]				171500	171600	165500	Tune-up time (min)	SFR (dB)	
15	QPSK	1	1	22.49	22.34	22.29	24.2	0.0	
Frequency [MHz]									
10	QPSK	1	1	22.31	22.20	22.05	24.2	0.0	
Channel									
Frequency [MHz]				1852.5	1860	1857.5	Tune-up time (min)	SFR (dB)	
5	QPSK	1	1	22.26	22.03	21.93	24.2	0.5	

n5_Ant 0 (DS18)									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR	
Channel									
Frequency [MHz]				1840	1840	1840			
20	QPSK	1	1	22.02	22.05	22.00	24.2	0.0	
20	QPSK	1	53	22.02	22.87	22.85			
20	QPSK	1	104	22.87	22.89	22.84			
20	QPSK	50	5	22.42	22.48	22.37	23.7	0.5	
20	QPSK	50	28	22.88	22.03	22.84	24.2	0.5	
20	QPSK	50	56	22.34	22.33	22.32	23.7	0.5	
20	16QAM	100	0	22.46	22.45	22.42	22.9	1.0	
20	16QAM	1	1	22.50	22.58	22.58			
20	16QAM	1	1	21.15	20.97	21.06	21.7	2.5	
20	16QAM	1	1	19.85	19.98	19.95	19.7	4.5	
Channel									
Frequency [MHz]				841.5	846.5	841.5			
10	QPSK	1	1	22.98	22.94	22.99	24.2	0.0	
Channel									
Frequency [MHz]				840	846.5	841			
10	QPSK	1	1	22.97	22.91	22.84	24.2	0.0	
Channel									
Frequency [MHz]				846.5	846.5	846.5			
5	QPSK	1	1	22.96	22.12	22.14	24.2	0.5	

n5_Ant 1 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minus Ch. / Freq.	Power High Ch. / Freq.	
Channel							
				16400	16700	16900	
20	QPSK	1	1	23.11	22.20	22.92	
Frequency (MHz)							
20	QPSK	1	1	23.05	22.09	22.85	24.2
20	QPSK	1	1	22.95	22.39	22.89	0.0
20	QPSK	50	0	22.55	22.48	22.42	23.7
20	QPSK	50	0	22.55	22.04	22.03	0.0
20	QPSK	50	50	22.52	22.39	22.18	0.0
20	QPSK	100	0	22.48	22.36	22.28	0.0
20	16QAM	1	1	22.49	22.52	22.27	23.7
20	16QAM	1	1	20.85	20.98	20.79	23.7
20	256QAM	1	1	18.97	18.95	18.76	4.5
Channel							
				16500	16700	16900	
Frequency (MHz)							
10	QPSK	1	1	23.17	23.11	23.03	24.2
Channel							
				16500	16700	16900	
Frequency (MHz)							
10	QPSK	1	1	23.08	22.97	22.86	24.2
Channel							
				16500	16700	16900	
Frequency (MHz)							
5	QPSK	1	1	22.02	22.16	22.13	24.2

n7_Ant 3 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minus Ch. / Freq.	Power High Ch. / Freq.	
Channel							
				16400	16700	16900	
Frequency (MHz)							
50	QPSK	1	1	15.17	15.25	15.17	
50	QPSK	1	135	14.84	15.21	15.12	15.7
50	QPSK	1	265	15.01	15.16	15.07	0.0
50	QPSK	135	0	14.46	15.02	15.05	15.7
50	QPSK	135	0	15.11	15.15	15.13	0.0
50	QPSK	135	135	15.09	15.12	15.11	15.7
50	QPSK	270	0	15.09	15.11	15.10	0.0
50	16QAM	1	1	15.18	15.17	15.19	0.0
50	16QAM	1	1	14.82	14.98	15.15	0.0
50	256QAM	1	1	14.81	14.82	14.82	0.0
Channel							
				16400	16700	16900	
Frequency (MHz)							
40	QPSK	1	1	15.13	15.17	15.13	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
30	QPSK	1	1	15.12	15.19	15.05	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
20	QPSK	1	1	15.12	15.23	15.12	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
20	QPSK	1	1	15.15	15.23	15.05	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
15	QPSK	1	1	15.13	15.11	15.05	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
10	QPSK	1	1	15.16	15.24	15.05	15.7
Channel							
				16400	16700	16900	
Frequency (MHz)							
5	QPSK	1	1	15.15	15.12	15.05	15.7

n7_Ant 4 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minus Ch. / Freq.	Power High Ch. / Freq.	
Channel							
				16400	16700	16900	
Frequency (MHz)							
50	QPSK	1	1	22.38	22.60	22.37	
50	QPSK	1	135	22.46	22.49	22.45	24.2
50	QPSK	1	265	22.30	22.58	22.55	0.0
50	QPSK	135	0	21.29	21.32	21.41	23.7
50	QPSK	135	0	22.42	22.53	22.51	24.2
50	QPSK	135	135	21.71	21.85	21.84	23.7
50	QPSK	270	0	21.76	21.81	21.74	0.0
50	16QAM	1	1	21.59	21.37	21.55	23.2
50	16QAM	1	1	19.98	19.98	19.91	23.7
50	256QAM	1	1	17.82	18.05	17.71	4.5
Channel							
				16400	16700	16900	
Frequency (MHz)							
40	QPSK	1	1	22.34	22.51	22.29	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
30	QPSK	1	1	22.38	22.58	22.29	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
20	QPSK	1	1	22.28	22.49	22.32	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
20	QPSK	1	1	22.30	22.51	22.33	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
15	QPSK	1	1	22.31	22.43	22.38	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
10	QPSK	1	1	22.26	22.49	22.32	24.2
Channel							
				16400	16700	16900	
Frequency (MHz)							
5	QPSK	1	1	22.27	22.57	22.28	24.2

n12_Ant 0 (DS18)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minima Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (min)	S/NR (dB)			
Channel											
Frequency (MHz)											
18	QPSK	1	1	23.23	23.28	23.23					
13	QPSK	1	40	23.15	23.25	23.15	24.2	0.0			
13	QPSK	1	77	23.12	23.24	23.12					
13	QPSK	36	3	22.72	22.72	22.72	23.7	0.5			
13	QPSK	36	26	23.13	23.22	23.13	24.2	0.0			
13	QPSK	36	43	22.58	22.58	22.58	23.7	0.5			
13	QPSK	72	0	22.83	22.86	22.85					
13	16QAM	1	1	22.55	22.58	22.55	23.2	1.8			
13	16QAM	1	1	21.25	21.21	21.26	21.7	2.5			
13	256QAM	1	1	19.95	19.37	19.37	19.7	4.5			
Channel											
Frequency (MHz)											
18	QPSK	1	1	23.07	22.98	23.08	24.2	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.55	22.08	22.10	24.2	0.0			

n12_Ant 1 (DS18)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minima Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (min)	S/NR (dB)	
Channel									
Frequency (MHz)									
18	QPSK	1	1	22.67	22.91	22.85			
15	QPSK	1	40	22.35	22.89	22.85	24.2	0.0	
15	QPSK	1	77	22.74	22.85	22.85			
15	QPSK	36	3	21.73	21.77	21.72	23.7	0.5	
15	QPSK	36	26	22.74	22.75	22.75	24.2	0.0	
15	QPSK	36	43	21.68	21.69	21.69	23.7	0.5	
15	QPSK	72	0	21.39	21.46	21.39			
15	16QAM	1	1	21.69	21.81	21.51	23.2	1.8	
15	16QAM	1	1	20.58	20.38	20.24	21.7	2.5	
15	256QAM	1	1	18.40	18.38	18.21	18.7	4.5	
Channel									
Frequency (MHz)									
18	QPSK	1	1	22.79	22.72	22.85	24.2	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.68	22.71	22.75	24.2	0.0	

n13_Ant 0 (DS18)											
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Minima Ch. / Freq.	Power High Ch. / Freq.	Tune-up time (min)	S/NR (dB)			
Channel											
Frequency (MHz)											
18	QPSK	1	1		23.05						
18	QPSK	1	26		23.03		24.2	0.0			
18	QPSK	1	55		23.05						
18	QPSK	26	3		22.01		23.7	0.5			
18	QPSK	26	14		23.05		24.2	0.0			
18	QPSK	26	27		22.07		23.7	0.5			
17	QPSK	42	0		21.66						
18	16QAM	1	1		21.77		23.2	1.8			
18	16QAM	1	1		20.94		21.7	2.5			
18	256QAM	1	1		18.23		18.7	4.5			
Channel											
Frequency (MHz)											
5	QPSK	1	1	22.96	22.68	22.58	24.2	0.0			

n13_Ant 1 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
10	QPSK	1	1	22.84			
Frequency (MHz)							
10	QPSK	1	30	22.76			
10	QPSK	1	30	22.87			24.2 0.0
10	QPSK	20	0	21.61			23.7 0.0
10	QPSK	20	14	22.05			24.2 0.0
10	QPSK	20	27	21.89			23.7 0.0
10	QPSK	30	0	21.96			
10	16QAM	1	1	21.63			23.2 1.0
10	16QAM	1	1	20.23			21.7 2.0
10	256QAM	1	1	18.32			19.7 4.0
Channel							
				155900	156050	156900	Tune-up limit (dBm)
Frequency (MHz)				779.3	781	784.0	(dBm)
5	QPSK	1	1	22.60	22.77	22.73	24.2 0.0

n25_Ant 3 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)				15.31	15.35	15.29	
40	QPSK	1	1	15.20	15.17	15.11	16.7 0.0
40	QPSK	1	214	15.29	15.21	15.16	16.7 0.0
40	QPSK	104	0	15.21	15.18	15.10	16.7 0.0
40	QPSK	104	94	15.22	15.20	15.23	16.7 0.0
40	QPSK	104	104	15.16	15.23	15.17	16.7 0.0
40	QPSK	214	0	15.29	15.26	15.21	
40	16QAM	1	1	15.29	15.26	15.21	16.7 0.0
40	16QAM	1	1	15.08	15.09	14.80	16.7 0.0
40	256QAM	1	1	15.30	15.02	14.80	16.7 0.0
Channel				373000	373500	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1860.5	1900	(dBm)
30	QPSK	1	1	15.24	15.22	15.22	16.7 0.0
Channel				372000	373000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860.5	1862.5	1900	(dBm)
25	QPSK	1	1	15.10	15.25	15.17	16.7 0.0
Channel				1860	1862.5	1900	(dBm)
20	QPSK	1	1	15.21	15.30	15.10	16.7 0.0
Channel				371000	373500	381500	Tune-up limit (dBm)
Frequency (MHz)				1810.5	1812.5	1814.0	(dBm)
15	QPSK	1	1	15.20	15.25	15.16	16.7 0.0
Channel				371000	373500	383000	Tune-up limit (dBm)
Frequency (MHz)				1805	1805.5	1810	(dBm)
10	QPSK	1	1	15.26	15.27	15.23	16.7 0.0
Channel				370000	373000	382000	Tune-up limit (dBm)
Frequency (MHz)				1802.5	1802.5	1812.5	(dBm)
5	QPSK	1	1	15.17	15.31	15.24	16.7 0.0

n25_Ant 4 (DS18)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	
Channel							
Frequency (MHz)							
40	QPSK	1	1	22.84	23.01	22.67	
40	QPSK	1	104	22.83	22.80	22.65	24.2 0.0
40	QPSK	1	214	22.80	22.95	22.81	24.2 0.0
40	QPSK	104	0	22.38	22.38	22.38	23.7 0.0
40	QPSK	104	94	22.84	22.80	22.80	24.2 0.0
40	QPSK	104	104	22.37	22.33	22.42	23.7 0.0
40	QPSK	214	0	22.46	22.45	22.49	
40	16QAM	1	1	22.41	22.43	22.40	23.2 1.0
40	16QAM	1	1	20.85	20.73	21.12	21.7 2.0
40	256QAM	1	1	18.06	18.01	18.00	19.7 4.0
Channel							
				374000	374500	380000	Tune-up limit (dBm)
Frequency (MHz)				1860	1860.5	1900	(dBm)
30	QPSK	1	1	22.81	22.82	22.79	24.2 0.0
Channel				373000	374000	380000	Tune-up limit (dBm)
Frequency (MHz)				1860.5	1862.5	1900	(dBm)
25	QPSK	1	1	22.75	22.82	22.63	24.2 0.0
Channel				1860	1862.5	1900	(dBm)
20	QPSK	1	1	22.79	22.81	22.72	24.2 0.0
Channel				371000	373500	381500	Tune-up limit (dBm)
Frequency (MHz)				1810.5	1812.5	1814.0	(dBm)
15	QPSK	1	1	22.74	22.60	22.75	24.2 0.0
Channel				371000	373500	385000	Tune-up limit (dBm)
Frequency (MHz)				1805	1805.5	1810	(dBm)
10	QPSK	1	1	22.81	22.84	22.78	24.2 0.0
Channel				370000	373000	382000	Tune-up limit (dBm)
Frequency (MHz)				1802.5	1802.5	1812.5	(dBm)
5	QPSK	1	1	22.80	22.82	22.84	24.2 0.0

n26_Ant 0 (DS18)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164000	Power Max Ch. Freq. 165000	Power High Ch. Freq. 167000	Turn-up time (dBm)
Channel							
20	QPSK	1	1	22.84	22.87	22.90	
Frequency (MHz)							
20	QPSK	1	53	22.85	22.87	22.90	24.2
20	QPSK	1	104	22.79	22.85	22.90	
20	QPSK	50	5	22.57	22.58	22.59	23.7
20	QPSK	50	28	22.51	22.50	22.51	24.2
20	QPSK	50	56	22.38	22.30	22.23	23.7
20	QPSK	100	0	22.38	22.40	22.42	
20	16QAM	1	1	22.61	22.57	22.55	23.2
20	16QAM	1	1	20.86	21.05	20.94	21.7
20	256QAM	1	1	18.80	18.80	18.80	18.7
Channel							
15	QPSK	1	1	22.74	22.81	22.72	24.2
Frequency (MHz)							
15	QPSK	1	1	22.68	22.72	22.58	24.2
Frequency (MHz)							
5	QPSK	1	1	22.53	22.56	22.50	24.2

n26_Ant 1 (DS18)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 164000	Power Max Ch. Freq. 165000	Power High Ch. Freq. 167000	Turn-up time (dBm)
Channel							
20	QPSK	1	1	23.18	23.31	23.28	
Frequency (MHz)							
20	QPSK	1	53	23.17	23.28	23.24	24.2
20	QPSK	1	104	23.15	23.25	23.10	
20	QPSK	50	5	22.83	22.72	22.81	23.7
20	QPSK	50	28	23.21	23.20	23.20	24.2
20	QPSK	50	56	22.75	22.82	22.71	23.7
20	QPSK	100	0	22.38	22.38	22.38	
20	16QAM	1	1	22.82	22.88	22.83	23.2
20	16QAM	1	1	20.88	20.92	21.05	21.7
20	256QAM	1	1	18.80	18.80	18.80	18.7
Channel							
15	QPSK	1	1	23.08	23.21	23.20	24.2
Frequency (MHz)							
15	QPSK	1	1	23.14	23.26	23.22	24.2
Frequency (MHz)							
5	QPSK	1	1	23.10	23.14	23.20	24.2

n66_Ant 3 (DS18)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 344000	Power Max Ch. Freq. 345000	Power High Ch. Freq. 346000	Turn-up time (dBm)
Channel							
40	QPSK	1	1	14.37	14.38	14.33	
Frequency (MHz)							
40	QPSK	1	104	14.39	14.42	14.37	18.2
40	QPSK	1	214	14.51	14.54	14.50	
40	QPSK	100	5	14.38	14.44	14.42	18.2
40	QPSK	100	54	14.52	14.55	14.54	18.2
40	QPSK	100	108	14.50	14.53	14.42	18.2
40	QPSK	210	0	14.46	14.46	14.46	
40	16QAM	1	1	14.51	14.42	14.41	18.2
40	16QAM	1	1	14.35	14.22	14.25	18.2
40	256QAM	1	1	14.17	14.22	14.12	18.2
Channel							
30	QPSK	1	1	14.22	14.44	14.24	18.2
Frequency (MHz)							
20	QPSK	1	1	14.51	14.40	14.20	18.2
Frequency (MHz)							
15	QPSK	1	1	14.24	14.40	14.20	18.2
Frequency (MHz)							
10	QPSK	1	1	14.31	14.45	14.25	18.2
Frequency (MHz)							
5	QPSK	1	1	14.34	14.35	14.28	18.2

n66_Ant 4 (DS18)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 344000	Power Max Ch. Freq. 345000	Power High Ch. Freq. 346000	Turn-up time (dBm)
Channel							
40	QPSK	1	1	22.36	22.19	22.03	
Frequency (MHz)							
40	QPSK	1	104	22.84	23.02	22.88	24.2
40	QPSK	1	214	22.80	23.07	23.81	
40	QPSK	100	5	21.94	22.00	21.98	23.7
40	QPSK	100	54	21.80	22.01	22.36	24.2
40	QPSK	100	108	22.10	22.14	22.01	23.7
40	QPSK	210	0	21.84	21.87	21.86	
40	16QAM	1	1	21.98	22.40	21.88	23.2
40	16QAM	1	1	20.24	20.50	20.80	21.7
40	256QAM	1	1	18.41	18.52	18.42	18.7
Channel							
30	QPSK	1	1	22.02	22.10	22.08	24.2
Frequency (MHz)							
20	QPSK	1	1	22.90	23.15	22.93	24.2
Frequency (MHz)							
15	QPSK	1	1	22.56	22.52	22.50	24.2
Frequency (MHz)							
10	QPSK	1	1	22.91	23.17	22.95	24.2
Frequency (MHz)							
5	QPSK	1	1	22.88	23.00	23.02	24.2



n38_Ant 3 (DS118)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. [157002]	Power Media Ch.1 Freq. [159002]	Power High Ch.1 Freq. [160002]	
Channel							
Frequency [MHz]							
30	QPSK	1	1	13.52	13.58	13.65	
30	QPSK	1	36	13.60	13.75	13.74	
30	QPSK	1	75	13.54	13.65	13.65	15.2
30	QPSK	36	0	13.60	13.75	13.60	0.0
30	QPSK	36	18	13.62	13.66	13.61	0.0
30	QPSK	36	37	13.69	13.78	13.78	15.2
30	QPSK	75	0	13.56	13.61	13.61	0.0
30	QPSK	75	1	13.65	13.75	13.65	15.2
30	84QAM	1	1	13.67	13.48	13.61	15.2
30	84QAM	1	1	13.62	13.68	13.58	0.0
Channel							
Frequency [MHz]							
30	QPSK	1	1	13.60	13.60	13.70	15.2

n38_Ant 4 (DS118)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. [157002]	Power Media Ch.1 Freq. [159002]	Power High Ch.1 Freq. [160002]	
Channel							
Frequency [MHz]							
30	QPSK	1	1	22.02	22.08	22.08	
30	QPSK	1	36	22.05	22.04	22.08	24.2
30	QPSK	1	75	22.06	22.07	22.02	
30	QPSK	36	0	22.04	22.07	22.03	0.0
30	QPSK	36	18	22.05	22.05	22.01	0.0
30	QPSK	36	37	22.39	22.30	22.49	0.0
30	QPSK	75	0	22.06	22.04	22.05	0.0
30	84QAM	1	1	22.01	22.45	22.15	0.0
30	84QAM	1	1	21.12	21.81	21.05	2.5
30	84QAM	1	1	19.01	19.10	19.10	4.5
Channel							
Frequency [MHz]							
30	QPSK	1	1	22.04	22.04	22.30	0.0

n41_Ant 3 (DS118)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. [502002]	Power Media Ch.1 Freq. [518002]	Power High Ch.1 Freq. [520002]	
Channel							
Frequency [MHz]							
100	QPSK	1	1	13.05	13.05	13.10	
100	QPSK	1	137	13.77	13.64	13.68	15.2
100	QPSK	1	271	13.66	13.60	13.49	
100	QPSK	195	0	13.81	13.70	13.72	0.0
100	QPSK	195	96	13.86	13.80	13.81	0.0
100	QPSK	195	198	13.75	13.78	13.68	0.0
100	QPSK	270	0	13.81	13.81	13.70	0.0
100	84QAM	1	1	13.80	13.81	13.72	0.0
100	84QAM	1	1	13.78	13.68	13.30	15.2
100	84QAM	1	1	13.68	13.38	13.36	0.0
Channel							
Frequency [MHz]							
90	QPSK	1	1	13.88	13.87	13.84	0.0
Channel							
Frequency [MHz]							
80	QPSK	1	1	13.90	13.90	13.71	0.0
Channel							
Frequency [MHz]							
40	QPSK	1	1	13.80	13.84	13.75	0.0
Channel							
Frequency [MHz]							
50	QPSK	1	1	13.94	13.90	13.75	0.0
Channel							
Frequency [MHz]							
40	QPSK	1	1	13.94	13.89	13.81	0.0
Channel							
Frequency [MHz]							
30	QPSK	1	1	13.89	13.89	13.85	0.0
Channel							
Frequency [MHz]							
20	QPSK	1	1	13.83	13.87	13.83	0.0

n41_Ant 4 (DS118)							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch.1 Freq. [502002]	Power Media Ch.1 Freq. [518002]	Power High Ch.1 Freq. [520002]	
Channel							
Frequency [MHz]							
100	QPSK	1	1	22.74	22.71	22.73	
100	QPSK	1	137	22.80	22.71	22.80	24.2
100	QPSK	1	271	22.70	22.71	22.60	
100	QPSK	195	0	22.73	22.70	22.68	0.0
100	QPSK	195	96	22.76	22.73	22.65	0.0
100	QPSK	195	198	21.87	21.88	21.78	0.0
100	QPSK	270	0	21.80	21.75	21.80	0.0
100	84QAM	1	1	21.41	21.35	21.30	0.0
100	84QAM	1	1	19.88	19.85	19.88	21.7
100	84QAM	1	1	17.73	17.65	17.77	4.5
Channel							
Frequency [MHz]							
90	QPSK	1	1	22.73	22.70	22.70	0.0
Channel							
Frequency [MHz]							
80	QPSK	1	1	22.68	22.60	22.65	0.0
Channel							
Frequency [MHz]							
40	QPSK	1	1	22.72	22.65	22.72	0.0
Channel							
Frequency [MHz]							
50	QPSK	1	1	22.69	22.78	22.53	0.0
Channel							
Frequency [MHz]							
40	QPSK	1	1	22.68	22.78	22.65	0.0
Channel							
Frequency [MHz]							
30	QPSK	1	1	22.73	22.70	22.70	0.0
Channel							
Frequency [MHz]							
20	QPSK	1	1	22.71	22.74	22.68	0.0

n2_Ant 3 (DS17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	SFRS	
Channel									
Frequency [MHz]									
20	QPSK	1	1	19.59	20.05	19.93			
20	QPSK	1	53	19.51	20.04	19.89	21.2	0.0	
20	QPSK	1	104	19.51	19.95	19.77			
20	QPSK	50	3	19.64	19.95	19.81	21.2	0.0	
20	QPSK	50	28	19.61	19.95	19.77	21.2	0.0	
20	QPSK	50	56	19.67	19.92	19.75	21.2	0.0	
20	QPSK	100	0	19.60	19.94	19.79	21.2	0.0	
20	16QAM	1	1	19.59	19.89	19.73	21.2	0.0	
20	16QAM	1	1	19.52	19.51	19.53	20.7	0.5	
20	256QAM	1	1	19.58	17.35	19.59	19.7	2.5	
Channel									
Frequency [MHz]									
15	QPSK	1	1	19.49	20.04	19.95	21.2	0.0	
Channel									
Frequency [MHz]									
10	QPSK	1	1	19.65	20.05	19.85	21.2	0.0	
5	QPSK	1	1	19.68	20.05	19.97	21.5	0.0	
Channel									
Frequency [MHz]									
5	QPSK	1	1	19.68	20.02	19.97	21.5	0.0	

Reduced power for receiver off/Hotspot									
n2_Ant 4 (DS17)									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	SFRS (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.60	20.94	20.70			
20	QPSK	1	53	20.77	20.77	20.65	22.2	0.0	
20	QPSK	1	104	20.65	20.77	20.65			
20	QPSK	50	3	20.59	20.73	20.54	22.2	0.0	
20	QPSK	50	28	20.67	20.81	20.51	22.2	0.0	
20	QPSK	50	56	20.65	20.78	20.49	22.2	0.0	
20	QPSK	100	0	20.59	20.80	20.49			
20	16QAM	1	1	20.60	20.74	20.49	22.2	0.0	
20	16QAM	1	1	20.13	20.18	20.05	21.7	0.5	
20	256QAM	1	1	19.92	19.20	19.93	20.2	2.0	
Channel									
Frequency (MHz)									
15	QPSK	1	1	20.77	20.75	20.64	22.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.76	20.76	20.65	22.2	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	20.75	20.85	20.69	22.3	0.0	

n5_Ant 0 (DS17)									
BW [kHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Minima Ch. Freq.	Power High Ch. Freq.	Turnup time (dBm)	SFRS (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	22.92	23.05	23.03			
20	QPSK	1	53	22.92	22.97	22.99	24.2	0.0	
20	QPSK	1	104	22.97	22.95	22.94			
20	QPSK	50	3	22.42	22.49	22.37	23.7	0.5	
20	QPSK	50	28	22.98	22.95	22.94	24.2	0.0	
20	QPSK	50	56	22.34	22.33	22.32	23.7	0.5	
20	QPSK	100	0	22.40	22.40	22.41			
20	16QAM	1	1	22.59	22.56	22.58	23.2	1.0	
20	16QAM	1	1	21.15	20.97	21.16	21.7	2.5	
20	256QAM	1	1	19.95	19.98	19.95	19.7	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	22.98	22.94	22.93	24.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	22.97	22.91	22.94	24.2	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	22.96	23.73	23.74	24.5	0.0	

n5_Ant 1 (DS17)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Media Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	1	23.11	23.33	23.52			
20	QPSK	1	10	23.03	23.00	23.00	24.2	0.0	
20	QPSK	1	104	22.95	22.90	22.80			
20	QPSK	30	0	22.53	22.46	22.42	23.2	0.0	
20	QPSK	30	0	22.50	22.50	22.80	24.2	0.0	
20	QPSK	30	0	22.52	22.39	22.18	23.2	0.0	
20	QPSK	100	0	22.46	22.30	22.30	23.2	0.0	
20	16QAM	1	1	22.49	22.52	22.27	23.2	1.0	
20	16QAM	1	1	20.96	20.96	20.79	21.2	2.0	
20	16QAM	1	1	19.37	19.35	19.76	19.7	4.5	
Channel									
Frequency (MHz)									
15	QPSK	1	1	21.17	21.11	21.03	24.2	0.0	
Channel									
Frequency (MHz)									
10	QPSK	1	1	20.08	22.07	22.95	24.2	0.0	
Channel									
Frequency (MHz)									
5	QPSK	1	1	18.63	18.65	18.65	24.2	0.0	

n7_Ant 3 (DS17)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 505000	Power Media Ch. Freq. 507000	Power High Ch. Freq. 509000	Time-up time (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
30	QPSK	1	1	17.61	17.62	17.63					
30	QPSK	1	130	17.59	17.44	17.40	19.2	0.0			
30	QPSK	1	260	17.50	17.35	17.41					
30	QPSK	130	0	17.51	17.58	17.47	19.2	0.0			
30	QPSK	130	0	17.56	17.53	17.50	19.2	0.0			
30	QPSK	130	130	17.55	17.53	17.52	19.2	0.0			
30	QPSK	470	0	17.46	17.50	17.49					
30	16QAM	1	1	17.51	17.52	17.69	19.2	0.0			
30	16QAM	1	1	17.20	17.35	17.56	19.2	0.0			
30	16QAM	1	1	17.15	17.21	16.99	19.2	0.0			
Channel											
Frequency (MHz)											
40	QPSK	1	1	17.57	17.53	17.42	19.2	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	17.56	17.59	17.63	19.2	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	17.49	17.61	17.61	19.2	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	17.51	17.46	17.42	19.2	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	17.59	17.51	17.46	19.2	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	17.57	17.49	17.48	19.2	0.0			

n7_Ant 4 (DS17)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 505000	Power Media Ch. Freq. 507000	Power High Ch. Freq. 509000	Time-up time (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.67	19.65	19.56					
30	QPSK	1	130	19.57	19.56	19.52	21.2	0.0			
30	QPSK	1	260	19.46	19.45	19.37					
30	QPSK	130	0	19.44	19.44	19.49	21.2	0.0			
30	QPSK	130	0	19.50	19.45	19.37	21.2	0.0			
30	QPSK	130	130	19.46	19.54	19.54	21.2	0.0			
30	QPSK	470	0	19.33	19.50	19.54					
30	16QAM	1	1	19.44	19.51	19.48	21.2	0.0			
30	16QAM	1	1	18.51	19.52	19.51	21.2	0.0			
30	16QAM	1	1	18.01	18.51	17.59	19.7	7.5			
Channel											
Frequency (MHz)											
40	QPSK	1	1	19.54	19.59	19.51	21.2	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.53	19.62	19.55	21.2	0.0			
Channel											
Frequency (MHz)											
20	QPSK	1	1	19.46	19.54	19.53	21.2	0.0			
Channel											
Frequency (MHz)											
30	QPSK	1	1	19.56	19.54	19.55	21.2	0.0			
Channel											
Frequency (MHz)											
15	QPSK	1	1	19.61	19.69	19.59	21.2	0.0			
Channel											
Frequency (MHz)											
10	QPSK	1	1	19.61	19.65	19.54	21.2	0.0			
Channel											
Frequency (MHz)											
5	QPSK	1	1	19.62	19.61	19.59	21.2	0.0			

n12_Ant 0 (DS17)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Min. Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR (dB)	
Frequency (MHz)									
				23.65	23.65	23.65			
18	QPSK	1	1	23.23	23.28	23.23			
15	QPSK	1	40	23.12	23.25	23.19	24.2	0.0	
15	QPSK	1	17	23.12	23.24	23.19			
15	QPSK	36	0	22.79	22.72	22.72	23.7	0.5	
15	QPSK	36	26	23.19	23.22	23.19	24.2	0.5	
15	QPSK	36	43	22.59	22.55	22.55	23.7	0.5	
10	QPSK	72	0	22.53	22.55	22.55			
10	16QAM	1	1	22.55	22.58	22.58	23.3	1.0	
15	16QAM	1	1	21.25	21.21	21.26	21.7	2.5	
15	256QAM	1	1	19.95	19.97	19.97	19.7	4.5	
Channel				14150	14150	14220	Tune-up time	SFR	
Frequency (MHz)				23.6	23.6	23.7			
10	QPSK	1	1	23.07	22.98	23.08	24.2	0.0	
Channel				14220	14150	14220	Tune-up time	SFR	
Frequency (MHz)				23.15	23.15	23.15			
5	QPSK	1	1	22.55	23.08	23.10	24.2	0.0	

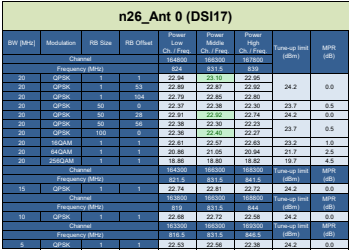
n12_Ant 1 (DS17)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Min. Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR (dB)	
Channel									
				14130	14150	14150			
Frequency (MHz)				22.6	22.6	22.6			
18	QPSK	1	1	22.67	22.61	22.69			
15	QPSK	1	40	22.70	22.68	22.69	24.2	0.0	
15	QPSK	1	17	22.74	22.65	22.65			
15	QPSK	36	0	21.75	21.77	21.72	23.7	0.5	
15	QPSK	36	26	22.74	22.75	22.75	24.2	0.5	
15	QPSK	36	43	21.68	21.69	21.69	23.7	0.5	
10	QPSK	72	0	21.75	21.69	21.75			
10	16QAM	1	1	21.69	21.81	21.75	23.2	1.0	
15	16QAM	1	1	20.59	20.38	20.24	21.7	2.5	
15	256QAM	1	1	19.49	19.38	19.27	19.7	4.5	
Channel				14150	14150	14220	Tune-up time	SFR	
Frequency (MHz)				22.6	22.6	22.7			
10	QPSK	1	1	22.73	22.72	22.69	24.2	0.0	
Channel				14220	14150	14220	Tune-up time	SFR	
Frequency (MHz)				22.75	22.75	22.75			
5	QPSK	1	1	22.68	22.71	22.75	24.2	0.0	

n13_Ant 0 (DS17)									
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Min. Ch. Freq.	Power High Ch. Freq.	Tune-up time (min)	SFR (dB)	
Channel									
Frequency (MHz)				74.2					
10	QPSK	1	1	22.65					
10	QPSK	1	26	22.63				24.2	0.0
10	QPSK	1	54	22.65					
10	QPSK	26	0	22.61				23.7	0.5
10	QPSK	26	14	22.63				24.2	0.5
10	QPSK	26	27	22.67				23.7	0.5
10	QPSK	42	0	22.66					
10	16QAM	1	1	21.77				23.2	1.0
10	16QAM	1	1	20.94				21.7	2.5
10	256QAM	1	1	19.57				19.7	4.5
Channel									
Frequency (MHz)				15650					
Frequency (MHz)				22.65					
5	QPSK	1	1	22.96	22.68	22.59	24.2	0.0	

n13_Ant 1 (DS117)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Minima Ch. / Power	Power High Ch. / Power	
Channel							
Frequency (MHz)							
10	QPSK	1	1	22.84			
10	QPSK	1	26	22.76			
10	QPSK	1	50	22.67		24.2	0.0
10	QPSK	25	0	21.61		23.7	0.0
10	QPSK	25	14	22.00		24.2	0.0
10	QPSK	25	27	21.89			0.0
10	QPSK	50	0	21.06			0.0
10	16QAM	1	1	21.63		23.3	1.0
10	16QAM	1	1	20.23		21.7	2.0
10	256QAM	1	1	18.32		19.7	4.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	22.60	22.77	22.73	24.2 0.0

n25_Ant 3 (DS117)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Minima Ch. / Power	Power High Ch. / Power	
Channel							
Frequency (MHz)							
40	QPSK	1	1	19.63	19.77	19.59	
40	QPSK	1	108	19.59	19.68	19.68	
40	QPSK	1	214	19.51	19.35	19.35	
40	QPSK	108	0	19.62	19.52	19.57	21.2 0.0
40	QPSK	108	54	19.63	19.45	19.38	21.2 0.0
40	QPSK	108	108	19.58	19.52	19.51	21.2 0.0
40	QPSK	216	0	19.62	19.46	19.23	
40	16QAM	1	1	19.65	19.52	19.64	21.2 0.0
40	16QAM	1	1	19.60	19.74	19.55	20.7 0.0
40	256QAM	1	1	17.23	17.77	17.53	19.7 2.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	19.51	19.71	19.54	21.2 0.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	19.50	19.92	19.40	21.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	19.37	19.50	19.30	21.2 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	19.23	19.45	19.43	21.2 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	19.39	19.76	19.53	21.2 0.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	19.62	19.73	19.57	21.2 0.0

n25_Ant 4 (DS117)							
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Power	Power Minima Ch. / Power	Power High Ch. / Power	
Channel							
Frequency (MHz)							
40	QPSK	1	1	21.00	21.03	21.04	
40	QPSK	1	108	20.86	21.03	20.94	
40	QPSK	1	214	20.95	20.99	20.94	
40	QPSK	108	0	20.79	20.83	20.77	22.2 0.0
40	QPSK	108	54	20.85	21.03	20.92	22.2 0.0
40	QPSK	108	108	20.72	20.97	20.82	22.2 0.0
40	QPSK	216	0	20.84	20.99	20.87	
40	16QAM	1	1	20.77	20.92	20.85	22.2 0.0
40	16QAM	1	1	20.84	20.84	20.71	21.7 0.0
40	256QAM	1	1	19.73	19.81	19.67	19.7 2.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.86	21.05	20.99	22.2 0.0
Channel							
Frequency (MHz)							
25	QPSK	1	1	20.85	20.93	21.03	22.2 0.0
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.79	20.99	21.02	21.2 0.0
Channel							
Frequency (MHz)							
15	QPSK	1	1	20.70	20.95	20.93	21.2 0.0
Channel							
Frequency (MHz)							
10	QPSK	1	1	20.94	20.99	20.90	22.2 0.0
Channel							
Frequency (MHz)							
5	QPSK	1	1	20.91	21.00	20.90	22.2 0.0



n26_Ant 1 (DS17)									
RF (MHz)	Modulation	RF Size	RF Offset	Power Ch. Freq.	Power Ch. Freq.	Power Ch. Freq.	Power Ch. Freq.	1000 Hz Peak	MPK Peak
Frequency (MHz)				8.24	8.11	8.11			
50	QPSK	1	1	23.13	23.13	23.13			
50	QPSK	1	50	23.17	23.28	23.28		24.2	0.0
50	QPSK	1	104	23.15	23.29	23.29			
50	QPSK	1	158	23.16	23.22	23.21		23.7	0.5
50	QPSK	50	28	23.21	23.28	23.28	24.2	24.2	0.0
50	QPSK	100	0	23.22	23.28	23.28			
50	QPSK	100	0	23.22	23.28	23.28			
50	QPSK	1	1	23.02	23.02	23.02		23.2	1.5
50	QPSK	1	1	23.02	23.02	23.02		23.2	1.5
50	QPSK	1	1	18.60	18.69	18.69	18.69	18.7	4.5
Frequency (MHz)				8.11	8.11	8.11			
15	QPSK	1	1	23.08	23.21	23.21	24.2	24.2	0.0
15	QPSK	1	1	23.08	23.21	23.21	24.2	24.2	0.0
Frequency (MHz)				23.14	23.28	23.27	24.2	24.2	0.0
Channel				963500	963500	963500	963500	MPK	MPK
1	QPSK	1	1	23.10	23.24	23.23	24.2	0.0	0.0

n66_Ant 3 (DS17)									
BSI (MHz)	Channel	RIS Size	RIS Offset	Power Low (dBm)	Power High (dBm)	Power Ratio (dB)	Gain Ratio (dB)	Efficiency (%)	Efficiency Ratio
50	Channel			1734	1745	10.0			
	Frequency (MHz)			17.31	17.36	0.28			
	CPUS	1	198				19.7	0.0	
	CPUS	1	214		17.34	17.35	0.08		
	CPUS	1	230		17.32	17.33	0.05		
	CPUS	1	246		17.29	17.30	0.03		
	CPUS	1	262		17.26	17.27	0.01		
	CPUS	1	278		17.23	17.24	0.01		
	CPUS	1	294		17.20	17.21	0.01		
	CPUS	1	310		17.17	17.18	0.01		
30	Channel			16500	16600	10.0			
	Frequency (MHz)			16.50	16.60	0.60			
	CPUS	1	7		17.58	17.60	0.07	19.7	0.0
	CPUS	1	15		17.56	17.57	0.03	19.7	0.0
	CPUS	1	23		17.54	17.55	0.02	19.7	0.0
	CPUS	1	31		17.52	17.53	0.01	19.7	0.0
	CPUS	1	39		17.50	17.51	0.01	19.7	0.0
	CPUS	1	47		17.48	17.49	0.01	19.7	0.0
	CPUS	1	55		17.46	17.47	0.01	19.7	0.0
	CPUS	1	63		17.44	17.45	0.01	19.7	0.0
15	Channel			16500	16600	10.0			
	Frequency (MHz)			16.50	16.60	0.60			
	CPUS	1	7		17.59	17.56	0.06	19.7	0.0
	CPUS	1	15		17.57	17.54	0.04	19.7	0.0
	CPUS	1	23		17.55	17.52	0.03	19.7	0.0
	CPUS	1	31		17.53	17.50	0.02	19.7	0.0
	CPUS	1	39		17.51	17.48	0.01	19.7	0.0
	CPUS	1	47		17.49	17.46	0.01	19.7	0.0
	CPUS	1	55		17.47	17.44	0.01	19.7	0.0
	CPUS	1	63		17.45	17.42	0.01	19.7	0.0
5	Channel			16500	16600	10.0			
	Frequency (MHz)			16.50	16.60	0.60			
	CPUS	1	7		17.60	17.57	0.05	19.7	0.0
	CPUS	1	15		17.58	17.55	0.03	19.7	0.0
	CPUS	1	23		17.56	17.53	0.02	19.7	0.0
	CPUS	1	31		17.54	17.51	0.01	19.7	0.0
	CPUS	1	39		17.52	17.49	0.01	19.7	0.0
	CPUS	1	47		17.50	17.47	0.01	19.7	0.0
	CPUS	1	55		17.48	17.45	0.01	19.7	0.0
	CPUS	1	63		17.46	17.43	0.01	19.7	0.0

n66_Ant 4 (DS17)							
RF (MHz)	Modulation	RF Sigs	RF Out (dBm)	Power Line (dBm)	Power Cable (dBm)	Power Amp (dBm)	Power out (dBm)
Frequency (MHz)	Channel			1734	1745	1745	
50	GP2K5	1	1	-21.00	-22.22	-21.00	22.1
50	GP2K5	1	198	-20.87	-20.85	-20.85	22.1
50	GP2K5	1	214	-21.00	-21.11	-20.87	22.1
50	GP2K5	1	230	-20.87	-20.85	-20.85	22.2
50	GP2K5	198	54	-21.01	-21.09	-20.88	22.2
50	GP2K5	198	198	-20.87	-20.85	-20.85	22.2
50	GP2K5	214	54	-21.00	-21.09	-20.87	22.1
50	20G4M1	1	1	-20.87	-20.85	-20.85	22.2
50	20G4M1	1	198	-20.87	-20.85	-20.85	22.2
50	20G4M1	1	214	-20.87	-20.85	-20.85	22.2
50	20G4M1	1	230	-20.87	-20.85	-20.85	22.2
50	20G4M1	198	54	-18.36	-18.44	-18.46	20.7
50	20G4M1	198	198	-18.36	-18.44	-18.46	20.7
50	20G4M1	214	54	-18.36	-18.44	-18.46	20.7
50	20G4M1	214	198	-18.36	-18.44	-18.46	20.7
50	GP2K5	1	1	-20.98	-21.11	-21.02	22.2
50	GP2K5	1	198	-20.98	-21.11	-21.02	22.2
50	GP2K5	1	214	-20.98	-21.11	-21.02	22.2
50	GP2K5	1	230	-20.98	-21.11	-21.02	22.2
50	GP2K5	198	54	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	54	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	54	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	198	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	198	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	214	-21.09	-21.15	-21.08	22.2
50	GP2K5	214	230	-21.09	-21.15	-21.08	22.2
50	GP2K5	230	198	-21.09			



n38_Ant 3 (DS117)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.95	15.95	15.95	0.0
30	QPSK	1	36	15.86	15.86	15.82	17.7
30	QPSK	1	75	15.52	15.55	15.67	0.0
30	QPSK	36	0	15.82	15.81	15.84	17.7
30	QPSK	36	18	15.83	15.84	15.83	0.0
30	QPSK	36	37	15.83	15.83	15.87	17.7
30	QPSK	75	0	15.84	15.83	15.76	0.0
30	QPSK	1	1	15.76	15.85	15.95	17.7
30	84QAM	1	1	15.83	15.82	15.87	17.7
30	84QAM	1	1	15.87	15.82	15.76	0.0
Channel							
Frequency (MHz)							
30	QPSK	1	1	15.91	15.86	15.96	17.7

n38_Ant 4 (DS117)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.09	20.16	20.07	21.2
30	QPSK	1	36	20.04	20.13	20.01	0.0
30	QPSK	1	75	19.96	20.11	19.97	0.0
30	QPSK	36	0	19.87	19.88	19.80	21.2
30	QPSK	36	18	20.01	20.05	19.99	0.0
30	QPSK	36	37	19.97	19.91	19.88	21.2
30	QPSK	75	0	20.01	20.07	19.86	0.0
30	84QAM	1	1	19.95	19.97	19.76	0.0
30	84QAM	1	1	19.88	19.93	19.83	21.2
30	84QAM	1	1	19.71	19.68	19.57	1.5
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.08	20.07	20.06	21.2

n41_Ant 3 (DS117)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)
Channel							
Frequency (MHz)							
100	QPSK	1	1	18.36	18.47	18.41	0.0
100	QPSK	1	137	18.28	18.42	18.28	17.7
100	QPSK	1	274	18.27	18.41	18.40	0.0
100	QPSK	135	0	18.36	18.54	18.30	17.7
100	QPSK	135	68	18.41	18.42	18.35	0.0
100	QPSK	135	138	18.38	18.28	18.22	17.7
100	QPSK	270	0	18.31	18.34	18.18	0.0
100	QPSK	270	0	18.31	18.41	18.27	0.0
100	84QAM	1	1	18.32	18.32	18.19	17.7
100	84QAM	1	1	18.38	18.38	18.26	0.0
Channel							
Frequency (MHz)							
90	QPSK	1	1	18.28	18.50	18.30	0.0
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.20	18.40	18.26	17.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.05	20.05	20.05	17.7
Channel							
Frequency (MHz)							
80	QPSK	1	1	18.28	18.28	18.28	17.7
Channel							
Frequency (MHz)							
50	QPSK	1	1	18.28	18.28	18.24	17.7
Channel							
Frequency (MHz)							
40	QPSK	1	1	18.38	18.28	18.19	17.7
Channel							
Frequency (MHz)							
30	QPSK	1	1	18.38	18.27	18.30	17.7
Channel							
Frequency (MHz)							
20	QPSK	1	1	18.33	18.25	18.23	17.7

n41_Ant 4 (DS117)							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Max Ch. Freq.	Power High Ch. Freq.	Time-up time (dBm)
Channel							
Frequency (MHz)							
100	QPSK	1	1	20.21	20.21	20.12	0.0
100	QPSK	1	137	20.19	20.21	19.97	21.2
100	QPSK	1	274	20.09	20.22	20.08	0.0
100	QPSK	135	0	20.18	20.07	19.92	21.2
100	QPSK	135	68	20.18	20.13	20.06	21.2
100	QPSK	135	138	20.16	20.12	20.02	21.2
100	QPSK	270	0	20.18	20.11	19.98	21.2
100	84QAM	1	1	20.16	20.04	20.05	21.2
100	84QAM	1	1	20.11	20.04	20.01	21.2
100	84QAM	1	1	17.71	17.80	17.75	1.5
Channel							
Frequency (MHz)							
90	QPSK	1	1	20.13	20.21	20.01	21.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.08	20.14	20.03	21.2
Channel							
Frequency (MHz)							
80	QPSK	1	1	20.13	20.05	19.98	21.2
Channel							
Frequency (MHz)							
50	QPSK	1	1	20.17	20.13	20.07	21.2
Channel							
Frequency (MHz)							
40	QPSK	1	1	20.14	20.17	20.07	21.2
Channel							
Frequency (MHz)							
30	QPSK	1	1	20.20	20.22	20.08	21.2
Channel							
Frequency (MHz)							
20	QPSK	1	1	20.13	20.15	20.01	21.2



n41_Ant 3 (Default)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				5020.02	518598	526000	17.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	16.35	16.47	16.41		
100	QPSK	1	137	16.26	16.42	16.28	17.7	0.0
100	QPSK	1	271	16.27	16.41	16.40		
100	QPSK	135	0	16.36	16.34	16.30		
100	QPSK	135	69	16.41	16.42	16.33	17.7	0.0
100	QPSK	135	138	16.36	16.26	16.22		
100	QPSK	270	0	16.31	16.38	16.19		
100	16QAM	1	1	16.31	16.41	16.27	17.7	0.0
100	64QAM	1	1	16.32	16.32	16.19		
100	256QAM	1	1	16.38	16.36	16.26		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.28	16.30	16.30		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	16.28	16.40	16.28		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	16.38	16.29	16.21		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	16.28	16.29	16.24		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.38	16.28	16.19		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	16.38	16.27	16.30		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.33	16.30	16.23		

5G NR N41 MIMO full power								
n41_Ant 4 (Default)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				5020.02	518598	526000	19.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	17.92	18.12	17.98		
100	QPSK	1	137	17.81	17.89	17.83	19.2	0.0
100	QPSK	1	271	17.88	17.90	17.86		
100	QPSK	135	0	17.66	17.87	17.76		
100	QPSK	135	69	17.77	17.93	17.83	19.2	0.0
100	QPSK	135	138	17.65	17.92	17.77		
100	QPSK	270	0	17.66	17.92	17.72		
100	16QAM	1	1	17.66	17.89	17.69	19.2	0.0
100	64QAM	1	1	17.70	17.88	17.71		
100	256QAM	1	1	17.82	17.81	17.76		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.68	17.88	17.70		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.72	17.80	17.72		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.66	17.90	17.69		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	17.76	17.87	17.77		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.66	17.88	17.73		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.82	17.91	17.81		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.63	17.89	17.81		

n41_Ant 5(Default)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				5020.02	518598	526000	18.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	17.22	17.34	17.25		
100	QPSK	1	137	17.16	17.19	17.21	18.7	0.0
100	QPSK	1	271	17.15	17.21	17.22		
100	QPSK	135	0	17.15	17.15	17.14		
100	QPSK	135	69	17.17	17.25	17.21	18.7	0.0
100	QPSK	135	138	17.16	17.24	17.20		
100	QPSK	270	0	17.06	17.20	17.15		
100	16QAM	1	1	17.04	17.15	17.07	18.7	0.0
100	64QAM	1	1	17.05	17.20	17.07		
100	256QAM	1	1	17.15	17.12	17.08		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	17.10	17.24	17.12		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	17.03	17.16	17.18		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	17.10	17.19	17.14		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	QPSK	1	1	17.10	17.24	17.10		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	17.10	17.11	17.06		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	17.09	17.19	17.16		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	17.03	17.10	17.07		



n41_Ant 3 (DSI18)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	15.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	13.95	13.99	13.75	15.2	0.0
100	QPSK	1	137	13.77	13.64	13.68		
100	QPSK	1	271	13.66	13.69	13.49	15.2	0.0
100	QPSK	135	0	13.81	13.79	13.72		
100	QPSK	135	69	13.88	13.89	13.82	15.2	0.0
100	QPSK	135	138	13.75	13.78	13.66		
100	QPSK	270	0	13.81	13.83	13.76	15.2	0.0
100	16QAM	1	1	13.80	13.81	13.72		
100	64QAM	1	1	13.76	13.68	13.35	15.2	0.0
100	256QAM	1	1	13.68	13.38	13.46		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	13.86	13.87	13.64	15.2	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	15.2	0.0
80	QPSK	1	1	13.92	13.92	13.71		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	13.80	13.94	13.61	15.2	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	15.2	0.0
50	QPSK	1	1	13.94	13.99	13.63		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	13.94	13.89	13.61	15.2	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	15.2	0.0
30	QPSK	1	1	13.89	13.89	13.65		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	13.93	13.97	13.63	15.2	0.0

Reduced Power for 5G NR N41 MIMO receiver on

n41_Ant 4 (DSI18)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	18.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	17.04	17.15	17.02	18.2	0.0
100	QPSK	1	137	16.87	16.88	16.74		
100	QPSK	1	271	16.78	16.75	16.81	18.2	0.0
100	QPSK	135	0	16.82	16.86	16.73		
100	QPSK	135	69	16.89	16.92	16.90	18.2	0.0
100	QPSK	135	138	16.84	16.90	16.79		
100	QPSK	270	0	16.88	16.89	16.85	18.2	0.0
100	16QAM	1	1	16.84	16.78	16.95		
100	64QAM	1	1	16.74	16.83	16.76	18.2	0.0
100	256QAM	1	1	16.73	16.73	16.66		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	16.68	16.88	16.70	18.2	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	18.2	0.0
80	QPSK	1	1	16.72	16.80	16.72		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	16.66	16.90	16.69	18.2	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	18.2	0.0
50	QPSK	1	1	16.76	16.87	16.77		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	16.66	16.88	16.73	18.2	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	18.2	0.0
30	QPSK	1	1	16.82	16.91	16.81		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	16.63	16.89	16.81	18.2	0.0

n41_Ant 5 (DSI18)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	13.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	11.72	11.84	11.75	13.2	0.0
100	QPSK	1	137	11.66	11.69	11.71		
100	QPSK	1	271	11.65	11.71	11.72	13.2	0.0
100	QPSK	135	0	11.65	11.65	11.64		
100	QPSK	135	69	11.67	11.75	11.71	13.2	0.0
100	QPSK	135	138	11.60	11.74	11.70		
100	QPSK	270	0	11.56	11.70	11.65	13.2	0.0
100	16QAM	1	1	11.54	11.65	11.57		
100	64QAM	1	1	11.55	11.70	11.57	13.2	0.0
100	256QAM	1	1	11.65	11.62	11.58		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	11.63	11.74	11.62	13.2	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	13.2	0.0
80	QPSK	1	1	11.63	11.66	11.68		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536	2592.99	2659.98		
60	QPSK	1	1	11.60	11.69	11.64	13.2	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99	13.2	0.0
50	QPSK	1	1	11.60	11.74	11.66		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	11.60	11.61	11.56	13.2	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	13.2	0.0
30	QPSK	1	1	11.59	11.69	11.66		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	11.53	11.60	11.57	13.2	0.0



n41_Ant 3 (DSI17)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	17.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	16.35	16.47	16.41	17.7	0.0
100	QPSK	1	137	16.26	16.42	16.28		
100	QPSK	1	271	16.27	16.41	16.40	17.7	0.0
100	QPSK	135	0	16.36	16.34	16.30		
100	QPSK	135	69	16.41	16.42	16.33	17.7	0.0
100	QPSK	135	138	16.36	16.28	16.22		
100	QPSK	270	0	16.31	16.38	16.19	17.7	0.0
100	16QAM	1	1	16.31	16.41	16.27		
100	64QAM	1	1	16.32	16.32	16.19	17.7	0.0
100	256QAM	1	1	16.38	16.36	16.26		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dB)	(dB)
90	QPSK	1	1	16.28	16.30	16.30	17.7	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR
80	QPSK	1	1	16.28	16.40	16.28	17.7	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR
60	QPSK	1	1	16.38	16.29	16.21	17.7	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99	Tune-up limit (dBm)	MPR
50	QPSK	1	1	16.28	16.29	16.24	17.7	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR
40	QPSK	1	1	16.38	16.28	16.19	17.7	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR
30	QPSK	1	1	16.38	16.27	16.30	17.7	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR
20	QPSK	1	1	16.33	16.30	16.23	17.7	0.0
Channel								

Reduced Power for receiver off/Hotspot_5G NR N41 MIMO

n41_Ant 4 (DSI17)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	19.2	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	17.92	18.12	17.98	19.2	0.0
100	QPSK	1	137	17.81	17.89	17.83		
100	QPSK	1	271	17.88	17.90	17.86	19.2	0.0
100	QPSK	135	0	17.66	17.87	17.76		
100	QPSK	135	69	17.77	17.93	17.83	19.2	0.0
100	QPSK	135	138	17.65	17.92	17.77		
100	QPSK	270	0	17.66	17.92	17.72	19.2	0.0
100	16QAM	1	1	17.66	17.89	17.69		
100	64QAM	1	1	17.70	17.88	17.71	19.2	0.0
100	256QAM	1	1	17.82	17.81	17.76		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dB)	(dB)
90	QPSK	1	1	17.68	17.88	17.70	19.2	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR
80	QPSK	1	1	17.72	17.80	17.72	19.2	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR
60	QPSK	1	1	17.66	17.90	17.69	19.2	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99	Tune-up limit (dBm)	MPR
50	QPSK	1	1	17.76	17.87	17.77	19.2	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR
40	QPSK	1	1	17.66	17.88	17.73	19.2	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR
30	QPSK	1	1	17.82	17.91	17.81	19.2	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR
20	QPSK	1	1	17.63	17.89	17.81	19.2	0.0
Channel								

n41_Ant 5 (DSI17)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502002	518598	526000	18.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	17.22	17.34	17.25	18.7	0.0
100	QPSK	1	137	17.16	17.19	17.21		
100	QPSK	1	271	17.15	17.21	17.22	18.7	0.0
100	QPSK	135	0	17.15	17.15	17.14		
100	QPSK	135	69	17.17	17.25	17.21	18.7	0.0
100	QPSK	135	138	17.16	17.24	17.20		
100	QPSK	270	0	17.06	17.20	17.15	18.7	0.0
100	16QAM	1	1	17.04	17.15	17.07		
100	64QAM	1	1	17.05	17.20	17.07	18.7	0.0
100	256QAM	1	1	17.15	17.12	17.08		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR
Frequency (MHz)				2541	2592.99	2644.98	(dB)	(dB)
90	QPSK	1	1	17.10	17.24	17.12	18.7	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR
80	QPSK	1	1	17.03	17.16	17.18	18.7	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98	Tune-up limit (dBm)	MPR
60	QPSK	1	1	17.10	17.19	17.14	18.7	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2654.99	Tune-up limit (dBm)	MPR
50	QPSK	1	1	17.10	17.24	17.10	18.7	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670	Tune-up limit (dBm)	MPR
40	QPSK	1	1	17.10	17.11	17.06	18.7	0.0
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98	Tune-up limit (dBm)	MPR
30	QPSK	1	1	17.09	17.19	17.16	18.7	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR
20	QPSK	1	1	17.03	17.10	17.07	18.7	0.0
Channel								



Conducted full Power for NR NSA

n5_Ant 0(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838	24.2	0.0	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	23.02	23.05	23.00			
20	QPSK	1	53	22.92	22.97	22.89			
20	QPSK	1	104	22.87	22.89	22.84			
20	QPSK	50	0	22.42	22.46	22.37	23.7	0.5	
20	QPSK	50	28	22.86	22.95	22.84	24.2	0.0	
20	QPSK	50	56	22.34	22.33	22.32	23.7	0.5	
20	QPSK	100	0	22.40	22.45	22.42			
20	16QAM	1	1	22.50	22.56	22.36			
20	64QAM	1	1	21.15	20.97	21.16	21.7	2.5	
20	256QAM	1	1	19.85	19.96	19.05	19.7	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.2	0.0	
15	QPSK	1	1	22.98	22.94	22.93	24.2	0.0	
Channel				829	836.5	844			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	22.97	22.91	22.84	24.2	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.2	0.0	
5	QPSK	1	1	22.96	22.73	22.74	24.2	0.0	

n5_Ant 1(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				834	836.5	838	24.2	0.0	
Frequency (MHz)				834	836.5	838			
20	QPSK	1	1	23.11	23.20	22.92			
20	QPSK	1	53	23.03	23.09	22.90			
20	QPSK	1	104	22.95	22.99	22.89			
20	QPSK	50	0	22.53	22.46	22.42	23.7	0.5	
20	QPSK	50	28	22.86	23.04	22.88	24.2	0.0	
20	QPSK	50	56	22.52	22.39	22.19	23.7	0.5	
20	QPSK	100	0	22.46	22.50	22.28			
20	16QAM	1	1	22.49	22.52	22.27			
20	64QAM	1	1	20.96	20.96	20.79	21.7	2.5	
20	256QAM	1	1	19.97	19.53	18.76	19.7	4.5	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.2	0.0	
15	QPSK	1	1	23.17	23.11	23.03	24.2	0.0	
Channel				829	836.5	844			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.08	22.97	22.95	24.2	0.0	
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.2	0.0	
5	QPSK	1	1	22.92	22.76	22.75	24.2	0.0	

n7_Ant 3(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	23.7	0.0	
Frequency (MHz)				2524	2536	2545			
40	QPSK	1	1	22.23	22.27	22.23			
40	QPSK	1	108	21.89	22.03	21.99			
40	QPSK	1	214	22.11	22.15	22.13			
40	QPSK	108	0	21.18	21.32	21.31	23.2	0.5	
40	QPSK	108	54	22.28	22.29	22.15	23.7	0.0	
40	QPSK	108	108	21.24	21.29	21.17	23.2	0.5	
40	QPSK	216	0	21.49	21.52	21.38			
40	16QAM	1	1	21.12	21.18	21.17	22.7	1.0	
40	64QAM	1	1	19.98	19.11	19.08	21.2	2.5	
40	256QAM	1	1	17.09	17.13	17.06	19.2	4.5	
Channel				505000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555	24.2	0.0	
30	QPSK	1	1	22.10	22.21	22.25	23.7	0.0	
Channel				505000	507000	511000			
Frequency (MHz)				2512.5	2535	2557.5			
25	QPSK	1	1	22.17	22.32	22.24	23.7	0.0	
Channel				505000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	24.2	0.0	
20	QPSK	1	1	22.05	22.17	22.19	23.7	0.0	
Channel				501500	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2497.5	2535	2562.5	24.2	0.0	
15	QPSK	1	1	22.04	22.18	22.19	23.7	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2500	2535	2565	24.2	0.0	
10	QPSK	1	1	22.09	22.25	22.31	23.7	0.0	
Channel				500500	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	23.7	0.0	
5	QPSK	1	1	22.12	22.28	22.27	23.7	0.0	

n7_Ant 6(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	19.86	19.89	19.85	20.7	0.0	
40	QPSK	1	108	19.92	19.87	19.83			
40	QPSK	1	214	19.80	19.85	19.83			
40	QPSK	108	0	19.91	19.41	19.34	20.2	0.5	
40	QPSK	108	54	19.84	19.89	19.77	20.7	0.0	
40	QPSK	108	108	19.91	19.54	19.44	20.2	0.5	
40	QPSK	216	0	19.98	19.52	19.46			
40	16QAM	1	1	19.92	19.06	18.91	19.7	1.0	
40	64QAM	1	1	17.42	17.57	17.45	18.2	2.5	
40	256QAM	1	1	15.23	15.36	15.23	16.2	4.5	
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	19.09	19.78	19.71	21.7	0.0	
Channel				505000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	19.68	19.70	19.82	20.7	0.0	
Channel				506000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				19.69	19.74	19.76	20.7	0.0	
20	QPSK	1	1	501900	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2967.5	2935	2962.5	(dBm)	(dB)	
15	QPSK	1	1	19.79	19.70	19.65	20.7	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2905	2935	2965	(dBm)	(dB)	
10	QPSK	1	1	19.06	19.82	19.75	20.7	0.0	
Channel				500000	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	19.72	19.68	19.67	20.7	0.0	

n66_Ant 3(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	22.94	23.02	23.01	24.2	0.0	
40	QPSK	1	108	22.86	23.01	22.98			
40	QPSK	1	214	22.90	22.91	22.77			
40	QPSK	108	0	22.47	22.52	22.38	23.7	0.5	
40	QPSK	108	54	22.82	22.92	22.79	24.2	0.0	
40	QPSK	108	108	22.46	22.58	22.52	23.7	0.5	
40	QPSK	216	0	22.38	22.48	22.37			
40	16QAM	1	1	22.18	22.33	22.27	23.2	1.0	
40	64QAM	1	1	20.74	20.88	20.86	21.7	2.5	
40	256QAM	1	1	18.80	18.88	18.81	19.7	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	22.51	22.90	22.90	24.2	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	22.82	22.98	22.82	24.2	0.0	
Channel				345000	349000	353500	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	22.87	22.89	22.91	24.2	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	22.93	22.93	22.98	24.2	0.0	
Channel				342900	349000	356500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	22.92	22.89	22.91	24.2	0.0	

n66_Ant 6(Default)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				345000	349000	353000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	21.22	21.36	21.22	22.2	0.0	
40	QPSK	1	108	21.25	21.31	21.20			
40	QPSK	1	214	21.25	21.26	21.11			
40	QPSK	108	0	20.26	20.29	20.20	21.7	0.5	
40	QPSK	108	54	21.20	21.27	21.19	22.2	0.0	
40	QPSK	108	108	20.32	20.33	20.32	21.7	0.5	
40	QPSK	216	0	20.31	20.41	20.28			
40	16QAM	1	1	20.11	20.15	20.12	21.2	1.0	
40	64QAM	1	1	18.70	18.82	18.87	19.7	2.5	
40	256QAM	1	1	16.98	16.92	16.47	17.7	4.5	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	21.04	21.16	21.16	22.2	0.0	
Channel				345000	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	21.16	21.21	21.13	22.2	0.0	
Channel				345000	349000	354500	Tune-up limit	MPR	
Frequency (MHz)				21.18	21.25	21.06	22.2	0.0	
15	QPSK	1	1	21.18	21.25	21.06	22.2	0.0	
Channel				345000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	21.09	21.22	21.03	22.2	0.0	
Channel				342900	349000	356500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	21.04	21.19	21.02	22.2	0.0	

n41_Ant 5(Default)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	23.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	22.32	22.37	22.28		
100	QPSK	1	137	22.31	22.36	22.22		
100	QPSK	1	271	22.23	22.34	22.22	23.2	0.5
100	QPSK	135	0	21.31	21.38	21.31		
100	QPSK	135	69	22.33	22.36	22.22		
100	QPSK	135	138	21.32	21.44	21.36		
100	QPSK	270	0	21.37	21.52	21.43	22.7	1.0
100	16QAM	1	1	20.89	20.93	20.92		
100	64QAM	1	1	19.43	19.45	19.32		
100	256QAM	1	1	17.66	17.72	17.70		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.16	22.23	22.18	23.7	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	22.25	22.18	22.14	23.7	0.0
Channel				506200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	QPSK	1	1	22.26	22.33	22.26	23.7	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	22.20	22.23	22.08	23.7	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.26	22.31	22.22	23.7	0.0
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	22.29	22.31	22.17	23.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	QPSK	1	1	22.14	22.33	22.21	23.7	0.0

n5_Ant 0(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	18.7	0.0	
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	17.28	17.44	17.25			
20	QPSK	1	83	17.10	17.43	17.22			
20	QPSK	1	104	17.12	17.29	17.07	18.7	0.0	
20	QPSK	50	0	17.18	17.37	17.22			
20	QPSK	50	28	17.35	17.35	17.34			
20	QPSK	50	86	17.15	17.27	17.24			
20	QPSK	100	0	17.26	17.30	17.27	18.7	0.0	
20	16QAM	1	1	17.15	17.35	17.17			
20	64QAM	1	1	17.47	17.36	17.30			
20	256QAM	1	1	17.15	17.35	17.25			
Channel				168300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
10	QPSK	1	1	17.34	17.16	17.15	18.7	0.0	
Channel				169200	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	17.34	17.18	17.24	18.7	0.0	
Channel				170300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	17.19	17.26	17.19	18.7	0.0	

n5_Ant 1(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800	21.7	0.0	
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	20.78	20.81	20.65			
20	QPSK	1	83	20.60	20.75	20.60			
20	QPSK	1	104	20.65	20.60	20.60	21.7	0.0	
20	QPSK	50	0	20.62	20.63	20.64			
20	QPSK	50	28	20.67	20.75	20.60			
20	QPSK	50	86	20.49	20.77	20.44			
20	QPSK	100	0	20.48	20.71	20.49	21.7	0.0	
20	16QAM	1	1	20.60	20.72	20.40			
20	64QAM	1	1	20.56	20.60	20.41			
20	256QAM	1	1	18.74	18.84	18.75			
Channel				168300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
10	QPSK	1	1	20.60	20.60	20.58	21.7	0.0	
Channel				169200	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	20.75	20.65	20.60	21.7	0.0	
Channel				170300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	20.64	20.69	20.64	21.7	0.0	

n7_Ant 3(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	13.2	0.0	
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	12.18	12.20	12.12			
40	QPSK	1	198	12.08	12.19	12.10			
40	QPSK	1	214	12.14	12.17	12.11	13.2	0.0	
40	QPSK	108	0	12.01	12.01	11.94			
40	QPSK	108	84	12.03	12.13	11.96			
40	QPSK	108	108	11.87	12.05	11.92			
40	QPSK	216	0	11.98	12.05	11.85	13.2	0.0	
40	16QAM	1	1	11.90	11.98	11.89			
40	64QAM	1	1	11.92	12.03	11.88			
40	256QAM	1	1	11.95	11.95	11.75			
Channel				510000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	11.92	11.83	11.88	13.2	0.0	
Channel				512000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	11.81	12.12	11.80	13.2	0.0	
Channel				513000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	12.02	11.93	11.77	13.2	0.0	
Channel				514000	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	11.94	12.10	11.94	13.2	0.0	
Channel				515000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	11.92	12.02	11.81	13.2	0.0	
Channel				516000	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	11.97	11.96	11.85	13.2	0.0	

n7_Ant 6(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000	17.2	0.0	
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	16.25	16.33	16.21			
40	QPSK	1	108	16.12	16.20	16.03			
40	QPSK	1	214	16.05	16.14	16.10	17.2	0.0	
40	QPSK	108	0	16.07	16.16	16.13			
40	QPSK	108	54	16.17	16.25	16.19			
40	QPSK	108	108	15.98	16.09	16.15			
40	QPSK	216	0	16.11	16.15	16.10	17.2	0.0	
40	16QAM	1	1	16.14	16.10	16.04			
40	64QAM	1	1	16.16	16.06	16.16			
40	256QAM	1	1	15.93	15.92	15.92			
Channel				503000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	16.10	16.20	16.11	17.2	0.0	
Channel				502500	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	16.19	16.29	16.10	17.2	0.0	
Channel				2510	2535	2560	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	16.20	16.13	16.02	17.2	0.0	
Channel				501500	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	16.10	16.26	16.05	17.2	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	16.07	16.19	16.08	17.2	0.0	
Channel				500500	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	16.06	16.26	16.15	17.2	0.0	

n66_Ant 3(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	14.2	0.0	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	13.07	13.12	12.96			
40	QPSK	1	108	12.97	13.03	12.95			
40	QPSK	1	214	13.01	13.02	12.95	14.2	0.0	
40	QPSK	108	0	12.81	12.94	12.78			
40	QPSK	108	54	12.94	13.08	12.98			
40	QPSK	108	108	12.81	12.98	12.86			
40	QPSK	216	0	12.92	12.93	12.80	14.2	0.0	
40	16QAM	1	1	12.89	13.08	12.84			
40	64QAM	1	1	12.86	12.96	12.82			
40	256QAM	1	1	13.05	13.08	12.90			
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	12.99	13.08	12.87	14.2	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	12.98	12.98	12.90	14.2	0.0	
Channel				1717.5	1745	1772.5	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	13.04	12.98	12.82	14.2	0.0	
Channel				343500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
10	QPSK	1	1	12.92	12.92	12.77	14.2	0.0	
Channel				342500	349000	356500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	12.97	13.03	12.80	14.2	0.0	

n66_Ant 6(DSI18)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000	18.7	0.0	
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.81	17.94	17.76			
40	QPSK	1	108	17.76	17.83	17.63			
40	QPSK	1	214	17.61	17.78	17.67	18.7	0.0	
40	QPSK	108	0	17.81	17.86	17.67			
40	QPSK	108	54	17.84	17.87	17.76			
40	QPSK	108	108	17.72	17.80	17.73			
40	QPSK	216	0	17.68	17.76	17.61	18.7	0.0	
40	16QAM	1	1	17.78	17.76	17.59			
40	64QAM	1	1	17.70	17.62	17.59			
40	256QAM	1	1	16.51	16.53	16.41			
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	17.68	17.62	17.54	18.7	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	17.77	17.80	17.59	18.7	0.0	
Channel				1715.0	1745	1775.0	Tune-up limit	MPR	
Frequency (MHz)				1715.0	1745	1775.0	(dBm)	(dB)	
15	QPSK	1	1	17.76	17.74	17.66	18.7	0.0	
Channel				343500	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
10	QPSK	1	1	17.66	17.88	17.61	18.7	0.0	
Channel				342500	349000	356500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	17.74	17.80	17.76	18.7	0.0	

n41_Ant 5(DS18)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	13.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	12.35	12.46	12.38		
100	QPSK	1	137	12.28	12.27	12.26		
100	QPSK	1	271	12.21	12.40	12.35	13.7	0.0
100	QPSK	135	0	12.33	12.29	12.11		
100	QPSK	135	69	12.34	12.37	12.26		
100	QPSK	135	138	12.26	12.30	12.18		
100	QPSK	270	0	12.29	12.32	12.21	13.7	0.0
100	16QAM	1	1	12.18	12.17	12.08		
100	64QAM	1	1	12.18	12.17	12.24		
100	256QAM	1	1	12.28	12.27	12.10		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	13.7	0.0
90	QPSK	1	1	12.30	12.22	12.14		
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	13.7	0.0
80	QPSK	1	1	12.23	12.33	12.23		
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	13.7	0.0
60	QPSK	1	1	12.17	12.25	12.07		
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	13.7	0.0
50	QPSK	1	1	12.21	12.35	12.16		
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	13.7	0.0
40	QPSK	1	1	12.25	12.35	12.21		
Channel				502200	518598	534996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98	13.7	0.0
30	QPSK	1	1	12.28	12.19	12.11		
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	13.7	0.0
20	QPSK	1	1	12.26	12.19	12.22		

n5_Ant 0(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	17.28	17.44	17.28	18.7	0.0	
20	QPSK	1	53	17.10	17.43	17.22			
20	QPSK	1	104	17.12	17.29	17.07			
20	QPSK	50	0	17.18	17.37	17.22	18.7	0.0	
20	QPSK	50	28	17.35	17.36	17.34	18.7	0.0	
20	QPSK	50	56	17.15	17.27	17.24	18.7	0.0	
20	QPSK	100	0	17.26	17.38	17.27			
20	16QAM	1	1	17.15	17.35	17.17	18.7	0.0	
20	64QAM	1	1	17.27	17.36	17.30	18.7	0.0	
20	256QAM	1	1	17.15	17.36	17.28	18.7	0.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	17.34	17.18	17.15	18.7	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	17.34	17.18	17.24	18.7	0.0	
Channel				163300	163300	163300	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	17.19	17.26	17.19	18.7	0.0	

Reduced Power for receiver off/Hotspot									
n5_Ant 1(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	QPSK	1	1	17.83	17.89	17.77	18.7	0.0	
20	QPSK	1	53	17.64	17.87	17.62			
20	QPSK	1	104	17.79	17.70	17.72			
20	QPSK	50	0	17.75	17.80	17.50	18.7	0.0	
20	QPSK	50	28	17.84	17.85	17.66	18.7	0.0	
20	QPSK	50	56	17.77	17.76	17.53	18.7	0.0	
20	QPSK	100	0	17.78	17.82	17.46			
20	16QAM	1	1	17.72	17.69	17.60	18.7	0.0	
20	64QAM	1	1	17.81	17.68	17.60	18.7	0.0	
20	256QAM	1	1	17.74	17.82	17.50	18.7	0.0	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	QPSK	1	1	17.69	17.71	17.71	18.7	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	QPSK	1	1	17.75	17.87	17.86	18.7	0.0	
Channel				163300	163300	163300	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	QPSK	1	1	17.67	17.82	17.88	18.7	0.0	

n7_Ant 3(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq.	Power Middle Ch. F.Freq.	Power High Ch. F.Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				505000	507000	509000			
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	14.44	14.54	14.53	15.7	0.0	
40	QPSK	1	108	14.37	14.51	14.50			
40	QPSK	1	214	14.27	14.44	14.51			
40	QPSK	108	0	14.34	14.36	14.39	15.7	0.0	
40	QPSK	108	54	14.42	14.52	14.42	15.7	0.0	
40	QPSK	108	108	14.31	14.36	14.30	15.7	0.0	
40	QPSK	216	0	14.30	14.41	14.38			
40	16QAM	1	1	14.35	14.43	14.37	15.7	0.0	
40	64QAM	1	1	14.36	14.38	14.36	15.7	0.0	
40	256QAM	1	1	14.33	14.33	14.25	15.7	0.0	
Channel				505000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	14.32	14.51	14.51	15.7	0.0	
Channel				505000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	14.36	14.45	14.35	15.7	0.0	
Channel				505000	507000	510000	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	14.33	14.41	14.25	15.7	0.0	
Channel				507000	507000	512000	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	14.26	14.49	14.38	15.7	0.0	
Channel				507000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2506	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	14.36	14.37	14.32	15.7	0.0	
Channel				505000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	14.33	14.44	14.33	15.7	0.0	

n7_Ant 6(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				509000	507000	509000			
Frequency (MHz)				2525	2535	2545			
40	QPSK	1	1	18.59	18.73	18.69			
40	QPSK	1	108	18.50	18.58	18.61	19.7	0.0	
40	QPSK	1	214	18.48	18.72	18.58			
40	QPSK	108	0	18.39	18.64	18.59	19.7	0.0	
40	QPSK	108	54	18.56	18.70	18.62	19.7	0.0	
40	QPSK	108	108	18.38	18.58	18.42			
40	QPSK	216	0	18.38	18.62	18.50	19.7	0.0	
40	16QAM	1	1	18.36	18.69	18.60	19.7	0.0	
40	64QAM	1	1	17.25	17.42	17.39	18.2	1.5	
40	256QAM	1	1	15.98	15.92	15.95	16.2	3.5	
Channel				509000	507000	511000	Tune-up limit	MPR	
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)	
30	QPSK	1	1	18.30	18.47	18.43	19.7	0.0	
Channel				502000	507000	511500	Tune-up limit	MPR	
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)	
25	QPSK	1	1	18.44	18.55	18.50	19.7	0.0	
Channel				502000	507000	512100	Tune-up limit	MPR	
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)	
20	QPSK	1	1	18.34	18.44	18.48	19.7	0.0	
Channel				501000	507000	512500	Tune-up limit	MPR	
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)	
15	QPSK	1	1	18.37	18.48	18.54	19.7	0.0	
Channel				501000	507000	513000	Tune-up limit	MPR	
Frequency (MHz)				2504	2535	2565	(dBm)	(dB)	
10	QPSK	1	1	18.45	18.47	18.44	19.7	0.0	
Channel				500000	507000	513500	Tune-up limit	MPR	
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)	
5	QPSK	1	1	18.40	18.40	18.50	19.7	0.0	

n66_Ant 3(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	18.40	18.44	18.37			
40	QPSK	1	108	18.31	18.32	18.34	17.7	0.0	
40	QPSK	1	214	18.34	18.33	18.25			
40	QPSK	108	0	18.28	18.23	18.33	17.7	0.0	
40	QPSK	108	54	18.36	18.49	18.39	17.7	0.0	
40	QPSK	108	108	18.35	18.21	18.27			
40	QPSK	216	0	18.29	18.35	18.31	17.7	0.0	
40	16QAM	1	1	18.25	18.34	18.21	17.7	0.0	
40	64QAM	1	1	18.25	18.28	18.28	17.7	0.0	
40	256QAM	1	1	16.30	16.41	16.35	17.7	0.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	18.20	18.38	18.29	17.7	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	18.20	18.33	18.24	17.7	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	18.39	18.24	18.28	17.7	0.0	
Channel				343000	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	18.38	18.38	18.22	17.7	0.0	
Channel				342000	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	18.37	18.33	18.27	17.7	0.0	

n66_Ant 6(DSI17)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				346000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	QPSK	1	1	17.81	17.84	17.76			
40	QPSK	1	108	17.78	17.83	17.83	18.7	0.0	
40	QPSK	1	214	17.81	17.78	17.87			
40	QPSK	108	0	17.81	17.86	17.87	18.7	0.0	
40	QPSK	108	54	17.84	17.87	17.75	18.7	0.0	
40	QPSK	108	108	17.72	17.89	17.73			
40	QPSK	216	0	17.68	17.76	17.81	18.7	0.0	
40	16QAM	1	1	17.78	17.76	17.59	18.7	0.0	
40	64QAM	1	1	17.70	17.82	17.69	18.7	0.0	
40	256QAM	1	1	16.51	16.53	16.41	17.7	1.0	
Channel				345000	349000	353000	Tune-up limit	MPR	
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)	
30	QPSK	1	1	17.68	17.82	17.64	18.7	0.0	
Channel				344000	349000	354000	Tune-up limit	MPR	
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)	
20	QPSK	1	1	17.77	17.80	17.59	18.7	0.0	
Channel				343000	349000	355000	Tune-up limit	MPR	
Frequency (MHz)				1717.5	1745	1772.5	(dBm)	(dB)	
15	QPSK	1	1	17.78	17.74	17.68	18.7	0.0	
Channel				342000	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)	
10	QPSK	1	1	17.68	17.89	17.81	18.7	0.0	
Channel				342000	349000	355500	Tune-up limit	MPR	
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)	
5	QPSK	1	1	17.74	17.80	17.75	18.7	0.0	

n41_Ant 5(DS17)								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				509202	518598	528000	16.7	0.0
Frequency (MHz)				2546.01	2592.99	2640		
100	QPSK	1	1	15.28	15.42	15.37		
100	QPSK	1	137	15.25	15.40	15.32		
100	QPSK	1	271	15.12	15.34	15.17	16.7	0.0
100	QPSK	135	0	15.29	15.37	15.07		
100	QPSK	135	69	15.30	15.40	15.23		
100	QPSK	135	138	15.29	15.39	15.11		
100	QPSK	270	0	15.22	15.37	15.19	16.7	0.0
100	16QAM	1	1	15.12	15.28	15.05		
100	64QAM	1	1	15.11	15.38	15.03		
100	256QAM	1	1	15.20	15.26	15.19		
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	16.7	0.0
90	QPSK	1	1	15.27	15.37	15.18		
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	QPSK	1	1	15.11	15.26	15.08	16.7	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	16.7	0.0
60	QPSK	1	1	15.28	15.34	15.03		
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	QPSK	1	1	15.12	15.39	15.22	16.7	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	16.7	0.0
40	QPSK	1	1	15.12	15.22	15.04		
Channel				502200	518598	534996		
Frequency (MHz)				2511	2592.99	2674.98		
30	QPSK	1	1	15.25	15.34	15.12	16.7	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	16.7	0.0
20	QPSK	1	1	15.19	15.36	15.12		

Bluetooth Conducted Power

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	14.90	15.00	15.10	12.00	12.10	12.20	12.00	12.10	12.20	16.50
	CH 39	2441	14.50	14.60	14.70	11.80	11.90	12.00	11.80	11.90	12.00	16.50
	CH 78	2480	14.50	14.60	14.70	11.50	11.60	11.70	11.50	11.60	11.70	16.50

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	6.80	6.70
	CH 19	2440	6.90	6.80
	CH 39	2480	7.00	6.90
Tune-up Limit			9.00	9.00

BT BR/EDR For Receiver on Simultaneous

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	5.50	5.50	5.60	3.20	3.20	3.30	3.20	3.20	3.30	7.00
	CH 39	2441	5.30	5.30	5.40	3.00	3.00	3.10	3.00	3.00	3.10	7.00
	CH 78	2480	5.30	5.30	5.40	3.00	3.00	3.10	3.00	3.00	3.10	7.00