



DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.32	1.39	1.31	±10.0%
DCP(mV) ^B	104.2	106.6	106.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/ μV	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	264.4	±2.2%
		Y	0.0	0.0	1.0		276.5	
		Z	0.0	0.0	1.0		268.2	

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: ES3DV3 – SN:3279

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	6.44	6.44	6.44	0.40	1.40	±12.1%
835	41.5	0.90	6.25	6.25	6.25	0.43	1.48	±12.1%
1750	40.1	1.37	5.40	5.40	5.40	0.75	1.19	±12.1%
1900	40.0	1.40	5.16	5.16	5.16	0.69	1.25	±12.1%
2000	40.0	1.40	5.13	5.13	5.13	0.63	1.31	±12.1%
2300	39.5	1.67	4.92	4.92	4.92	0.90	1.10	±12.1%
2450	39.2	1.80	4.71	4.71	4.71	0.90	1.16	±12.1%
2600	39.0	1.96	4.54	4.54	4.54	0.90	1.15	±12.1%

^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.

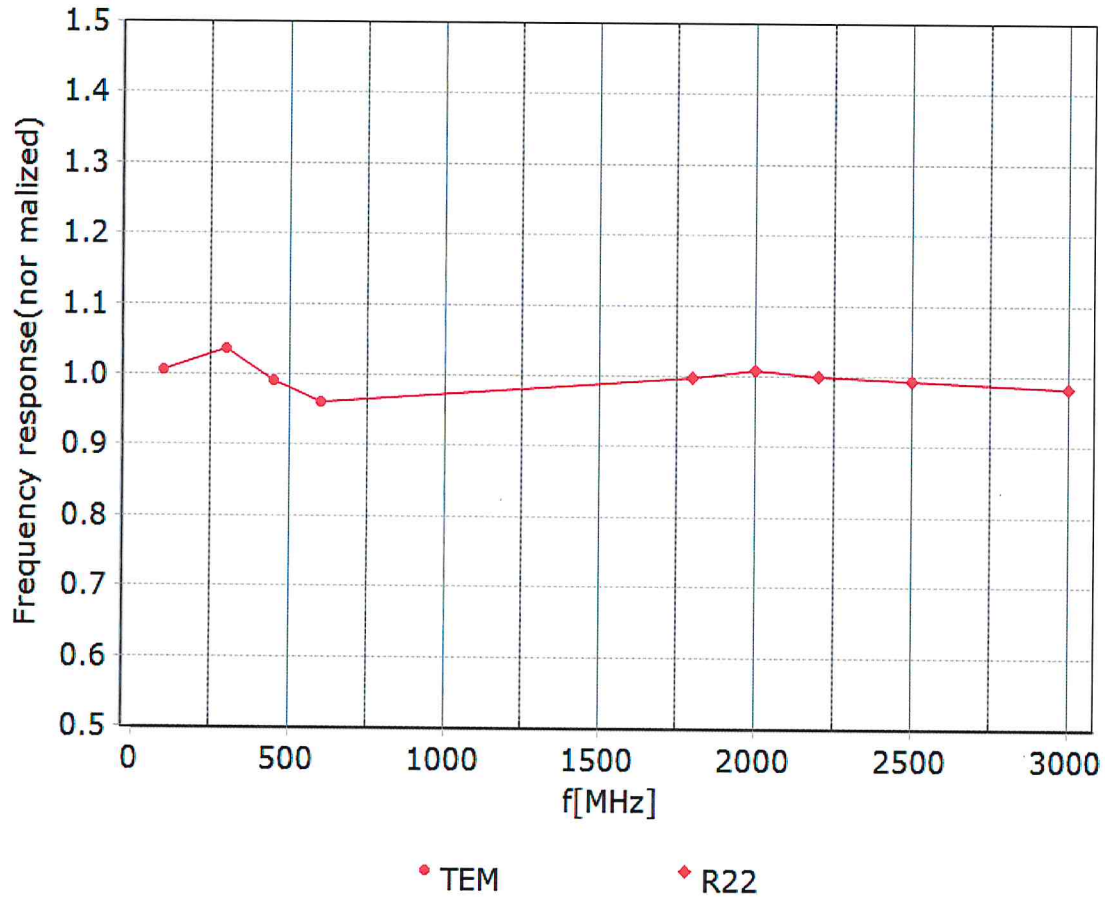
^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty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



Add: No.51 Xueyuan 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: $\pm 7.4\%$ ($k=2$)

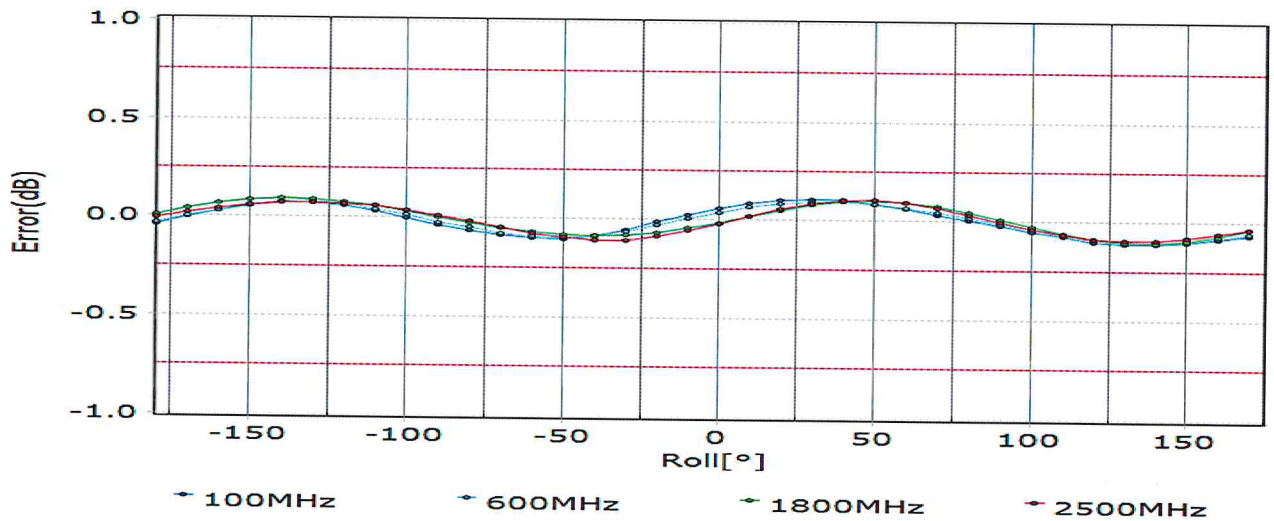
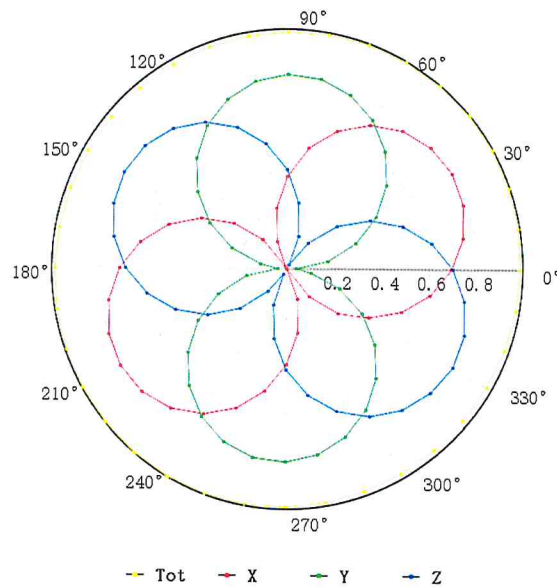
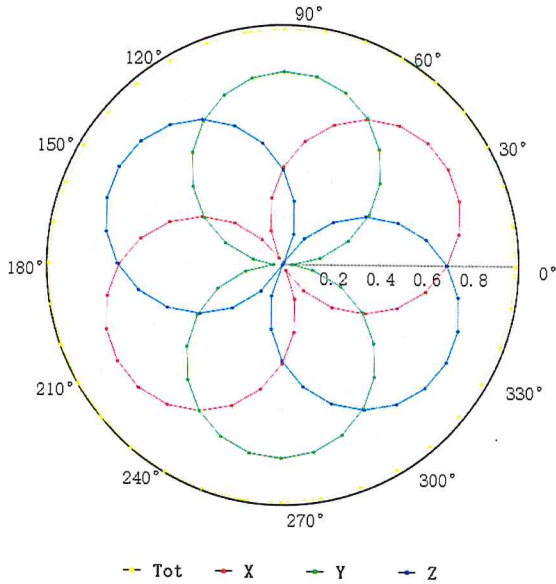


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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM

f=1800 MHz, R22

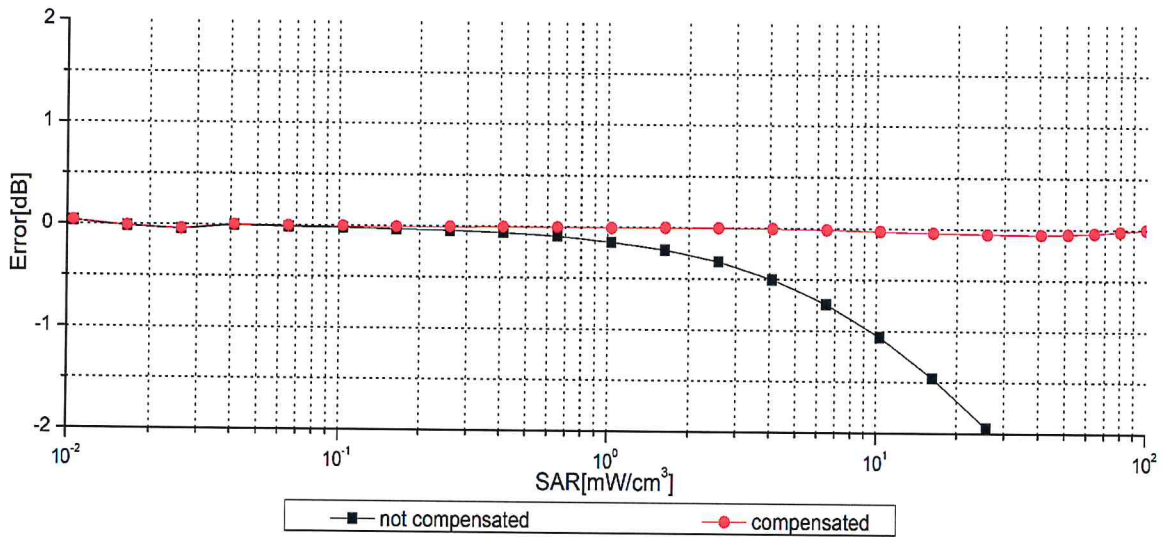
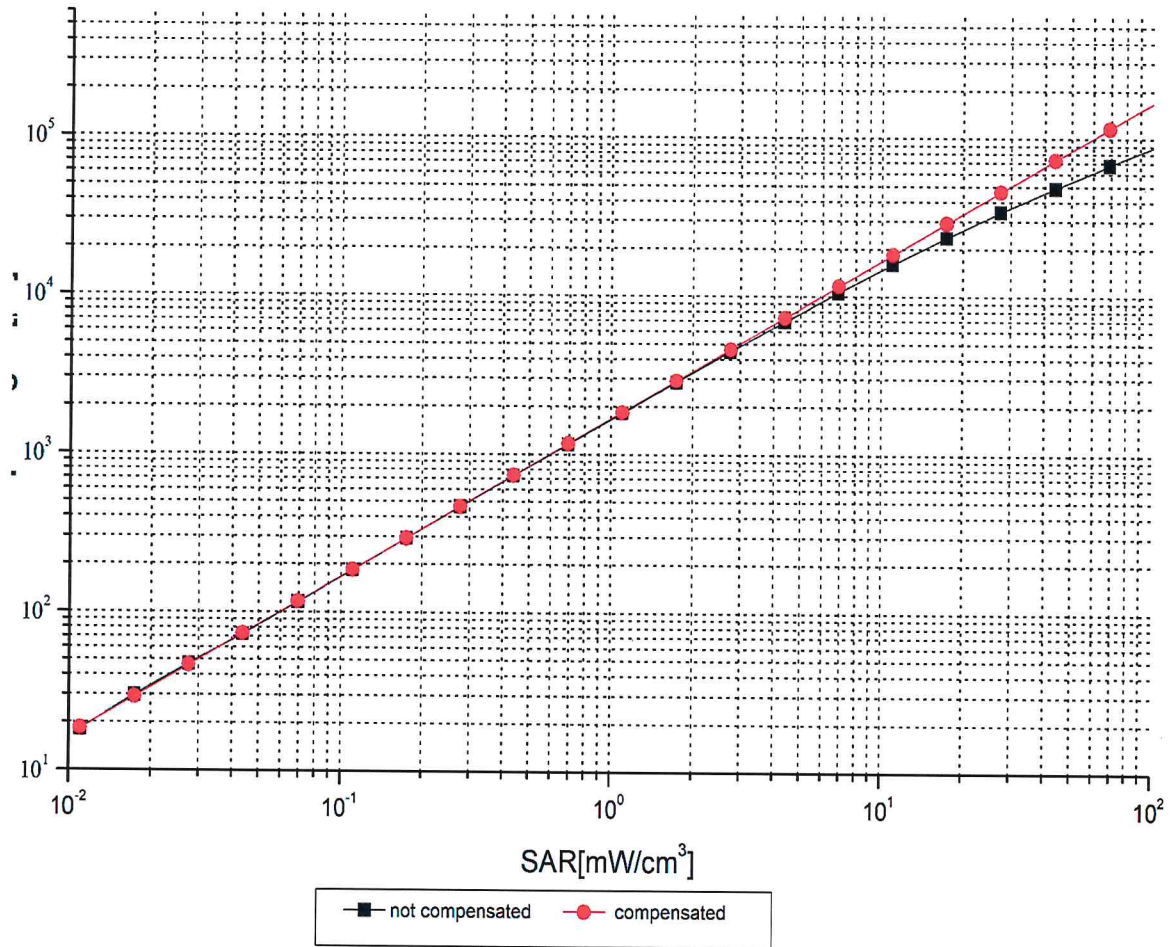


Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)



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Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)



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

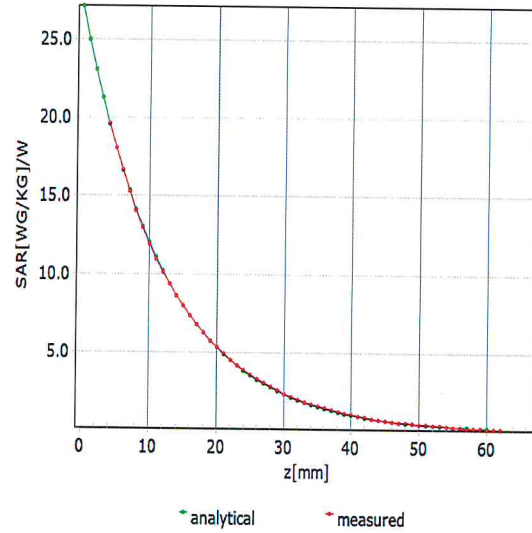
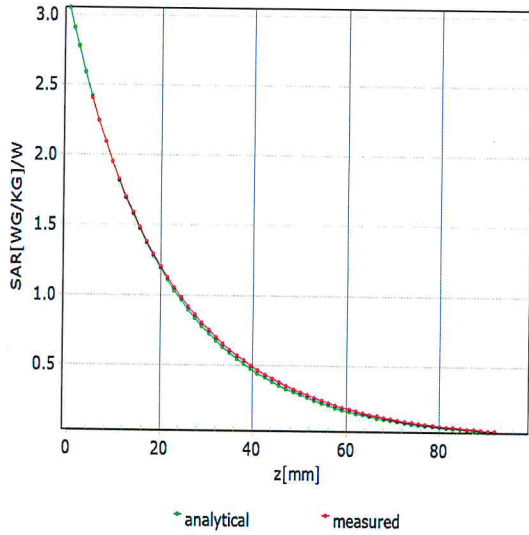


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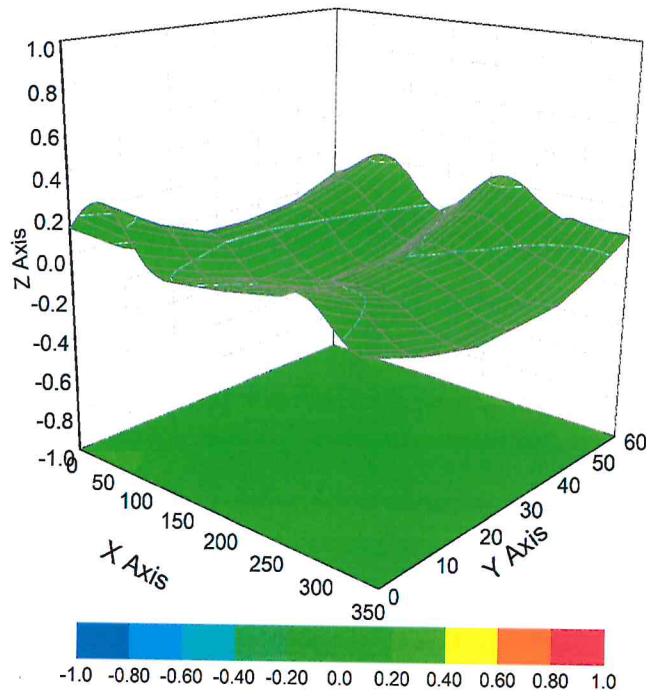
Conversion Factor Assessment

f=750 MHz,WGLS R9(H_convF)

f=1750 MHz,WGLS R22(H_convF)



Deviation from Isotropy in Liquid



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



DASY/EASY – Parameters of Probe: ES3DV3 – SN:3279

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	170.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	10mm
Tip Diameter	4mm
Probe Tip to Sensor X Calibration Point	2mm
Probe Tip to Sensor Y Calibration Point	2mm
Probe Tip to Sensor Z Calibration Point	2mm
Recommended Measurement Distance from Surface	3mm



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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **ES3-3293_Nov19**

CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3293**

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

Calibration date: **November 25, 2019**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	07-Oct-19 (No. DAE4-660_Oct19)	Oct-20
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
			Issued: November 26, 2019

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Glossary:

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

Calibration is Performed According to the Following Standards:

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

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

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	1.09	0.90	0.71	± 10.1 %
DCP (mV) ^B	105.6	104.0	109.8	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	197.9	±3.5 %	± 4.7 %
		Y	0.0	0.0	1.0		199.0		
		Z	0.0	0.0	1.0		206.6		

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

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

^B Numerical linearization parameter: uncertainty not required.

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

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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-4.6
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	2 mm
Probe Tip to Sensor Y Calibration Point	2 mm
Probe Tip to Sensor Z Calibration Point	2 mm
Recommended Measurement Distance from Surface	3 mm

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

Calibration Parameter Determined in Head Tissue Simulating Media

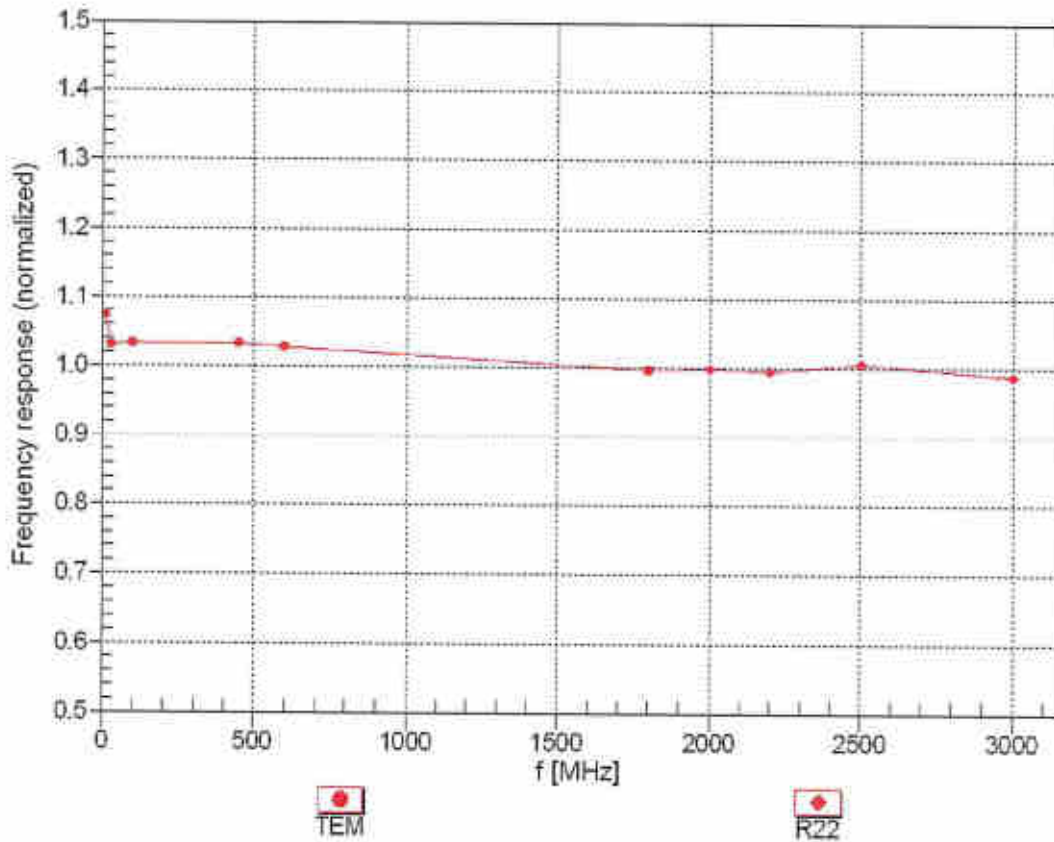
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^H (mm)	Unc (k=2)
750	41.9	0.89	6.56	6.56	6.56	0.80	1.23	± 12.0 %
835	41.5	0.90	6.39	6.39	6.39	0.80	1.26	± 12.0 %
900	41.5	0.97	6.23	6.23	6.23	0.72	1.30	± 12.0 %
1450	40.5	1.20	5.89	5.89	5.89	0.48	1.49	± 12.0 %
1750	40.1	1.37	5.53	5.53	5.53	0.55	1.38	± 12.0 %
1900	40.0	1.40	5.32	5.32	5.32	0.67	1.30	± 12.0 %
2000	40.0	1.40	5.25	5.25	5.25	0.50	1.55	± 12.0 %
2300	39.5	1.67	4.89	4.89	4.89	0.63	1.42	± 12.0 %
2450	39.2	1.80	4.60	4.60	4.60	0.80	1.33	± 12.0 %
2600	39.0	1.96	4.39	4.39	4.39	0.75	1.41	± 12.0 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-8 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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

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

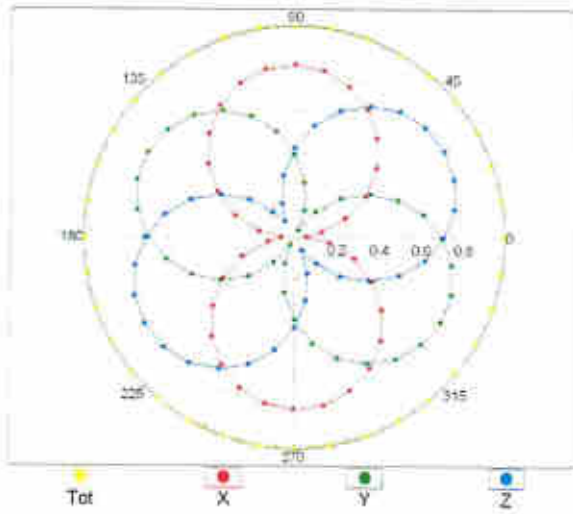
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



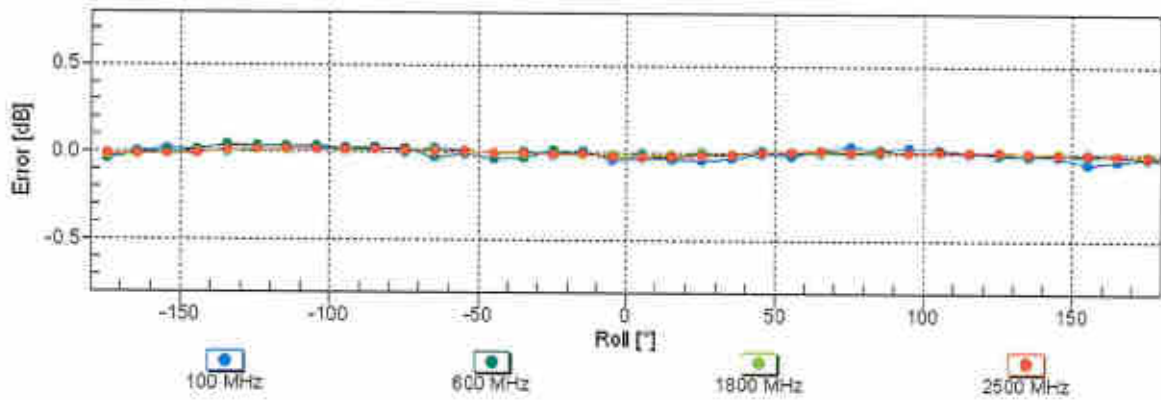
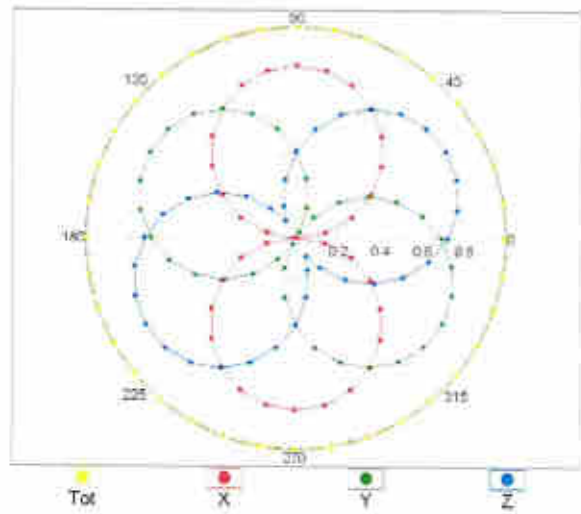
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

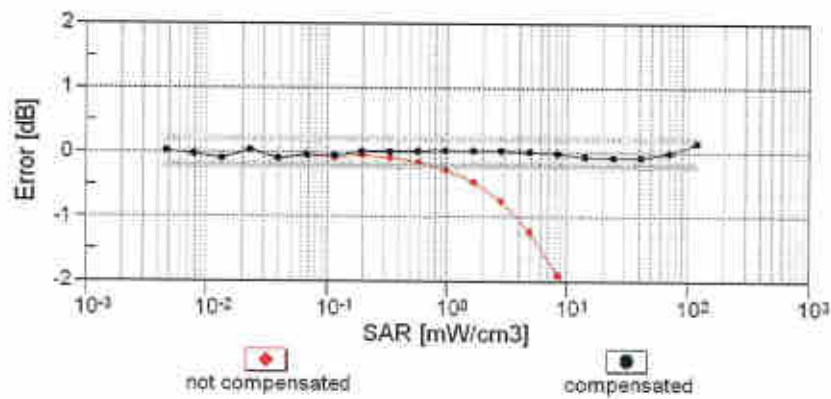
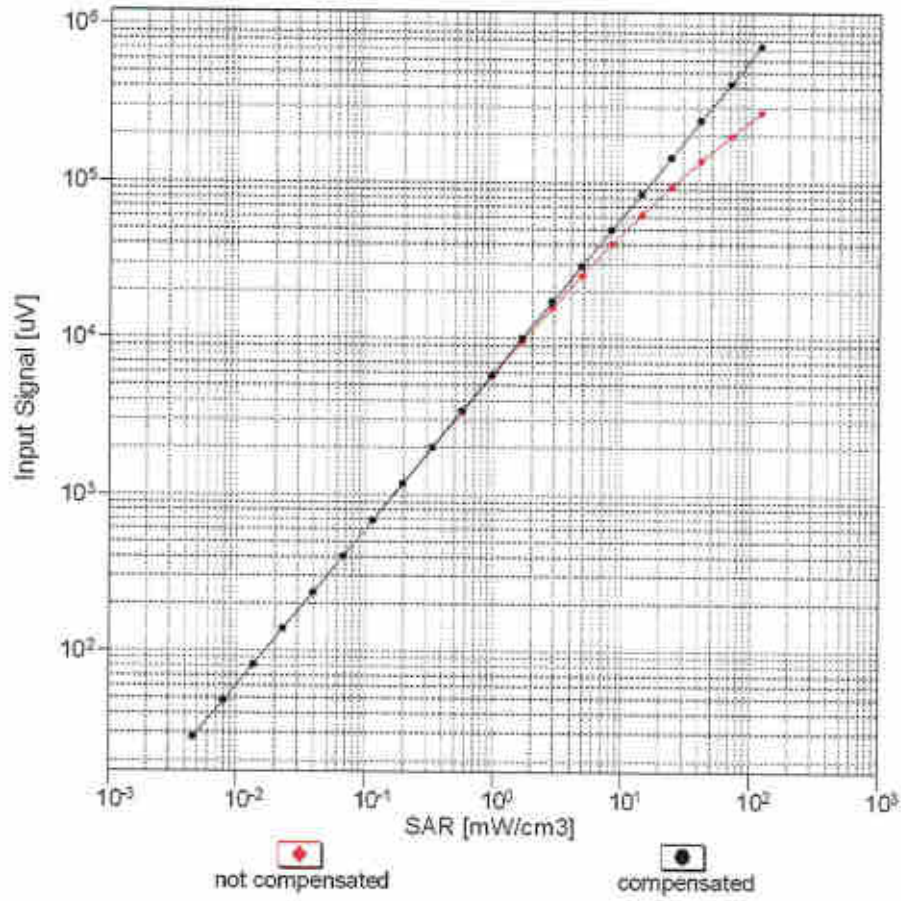


f=1800 MHz,R22



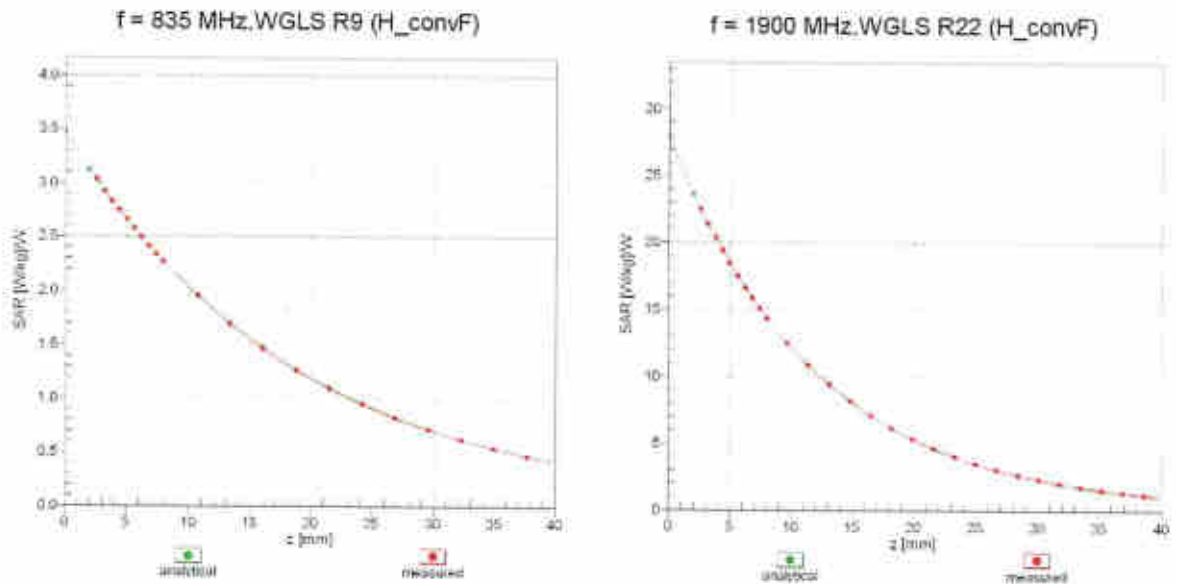
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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

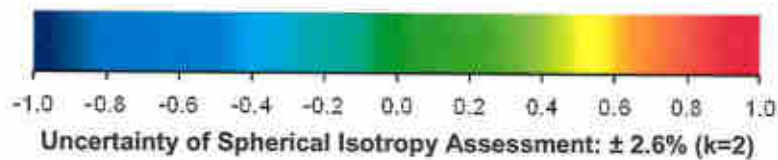
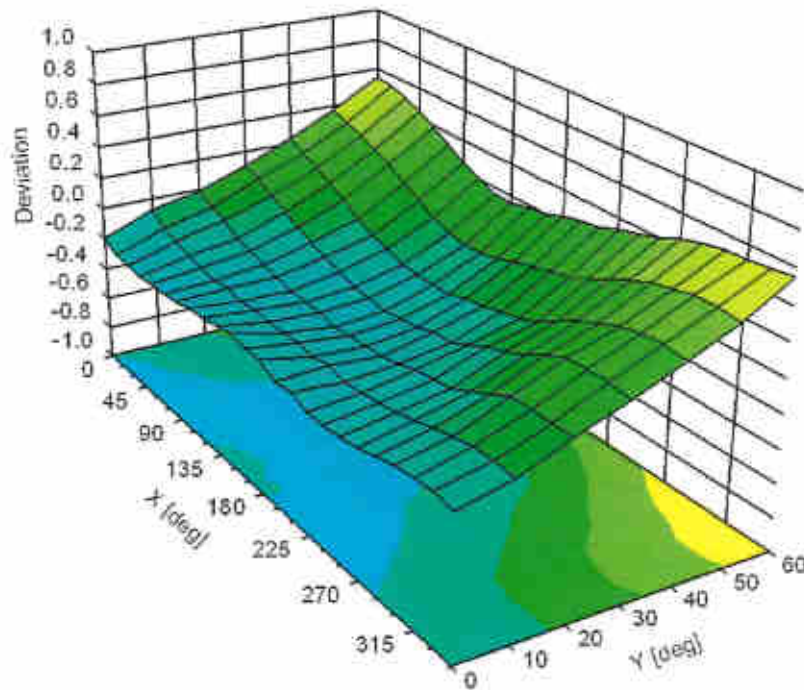


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



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





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Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **EX3-3976_Jan20**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3976**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes**

Calibration date: **January 27, 2020**

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

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

Issued: February 4, 2020

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Glossary:

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

Calibration is Performed According to the Following Standards:

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$) ^A	0.48	0.50	0.54	± 10.1 %
DCP (mV) ^B	104.2	97.4	106.5	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB μ V	C	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	191.8	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00		186.3		
		Z	0.00	0.00	1.00		175.8		
10352-AAA	Pulse Waveform (200Hz, 10%)	X	20.00	94.27	22.80	10.00	60.0	± 2.9 %	± 9.6 %
		Y	20.00	92.24	21.74		60.0		
		Z	20.00	93.79	22.86		60.0		
10353-AAA	Pulse Waveform (200Hz, 20%)	X	20.00	99.71	24.52	6.99	80.0	± 1.9 %	± 9.6 %
		Y	20.00	94.54	21.52		80.0		
		Z	20.00	94.46	22.10		80.0		
10354-AAA	Pulse Waveform (200Hz, 40%)	X	20.00	112.84	29.50	3.98	95.0	± 1.2 %	± 9.6 %
		Y	20.00	97.96	21.49		95.0		
		Z	20.00	101.35	24.09		95.0		
10355-AAA	Pulse Waveform (200Hz, 60%)	X	20.00	141.13	41.02	2.22	120.0	± 1.4 %	± 9.6 %
		Y	20.00	112.18	26.31		120.0		
		Z	20.00	111.64	27.45		120.0		
10387-AAA	QPSK Waveform, 1 MHz	X	20.00	102.43	23.93	0.00	150.0	± 2.8 %	± 9.6 %
		Y	0.53	60.11	7.40		150.0		
		Z	0.96	65.89	11.65		150.0		
10388-AAA	QPSK Waveform, 10 MHz	X	3.27	75.78	19.98	0.00	150.0	± 1.1 %	± 9.6 %
		Y	2.23	68.86	16.32		150.0		
		Z	2.57	71.08	17.44		150.0		
10396-AAA	64-QAM Waveform, 100 kHz	X	3.94	77.03	22.30	3.01	150.0	± 1.2 %	± 9.6 %
		Y	2.66	69.29	18.75		150.0		
		Z	3.79	75.30	21.02		150.0		
10399-AAA	64-QAM Waveform, 40 MHz	X	3.91	69.68	17.48	0.00	150.0	± 2.0 %	± 9.6 %
		Y	3.48	67.32	16.03		150.0		
		Z	3.66	68.29	16.51		150.0		
10414-AAA	WLAN CCDF, 64-QAM, 40MHz	X	4.94	66.38	16.22	0.00	150.0	± 4.0 %	± 9.6 %
		Y	4.77	65.66	15.68		150.0		
		Z	4.94	66.22	15.93		150.0		

Note: For details on UID parameters see Appendix

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 E^2 -field uncertainty inside TSL (see Page 5).

^B Numerical linearization parameter: uncertainty not required.

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
X	43.7	320.71	34.86	15.41	0.32	5.10	1.25	0.27	1.01
Y	39.8	301.78	36.70	10.48	0.56	5.08	0.00	0.43	1.01
Z	45.2	331.44	34.65	19.40	0.54	5.10	1.65	0.25	1.01

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-5.5
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3976

Calibration Parameter Determined in Head Tissue Simulating Media

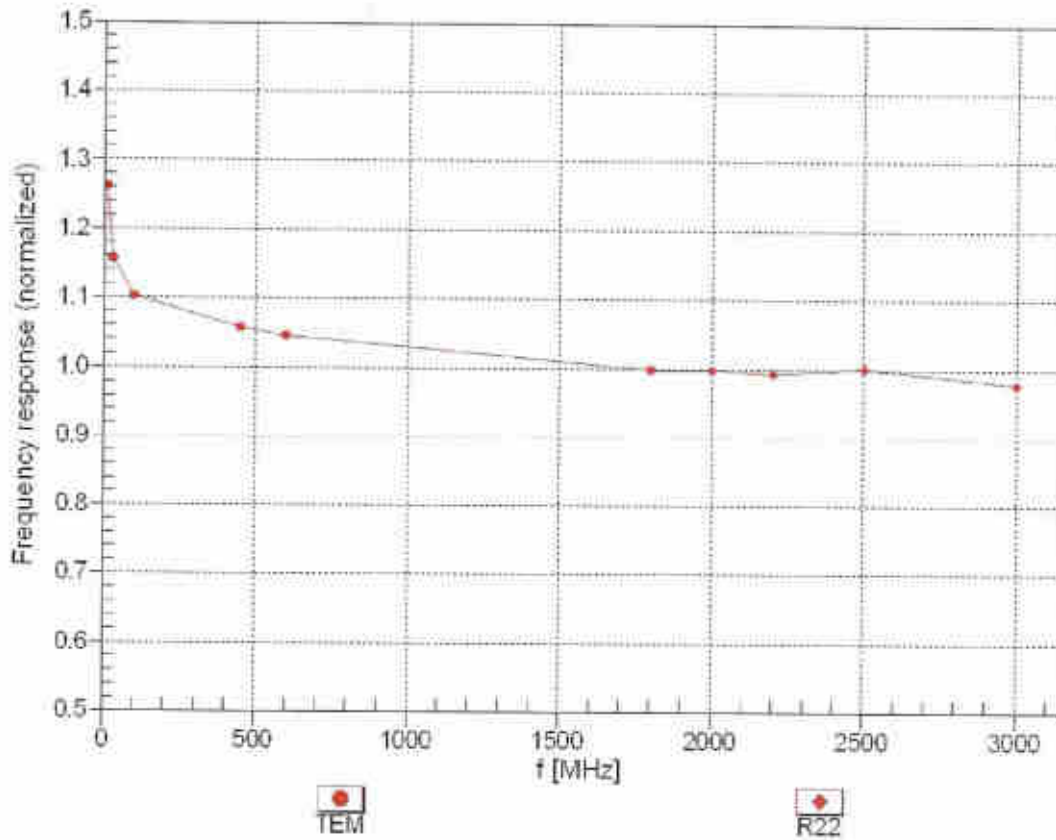
f (MHz) ^c	Relative Permittivity ^f	Conductivity (S/m) ^f	ConvF X	ConvF Y	ConvF Z	Alpha ^g	Depth ^g (mm)	Unc (k=2)
750	41.9	0.89	10.23	10.23	10.23	0.65	0.80	± 12.0 %
835	41.5	0.90	10.16	10.16	10.16	0.48	0.88	± 12.0 %
900	41.5	0.97	9.89	9.89	9.89	0.52	0.80	± 12.0 %
1450	40.5	1.20	8.97	8.97	8.97	0.48	0.80	± 12.0 %
1750	40.1	1.37	8.63	8.63	8.63	0.34	0.80	± 12.0 %
1900	40.0	1.40	8.33	8.33	8.33	0.29	0.80	± 12.0 %
2000	40.0	1.40	8.30	8.30	8.30	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.89	7.89	7.89	0.35	0.80	± 12.0 %
2450	39.2	1.80	7.74	7.74	7.74	0.33	0.80	± 12.0 %
2600	39.0	1.96	7.48	7.48	7.48	0.38	0.80	± 12.0 %
3500	37.9	2.91	7.15	7.15	7.15	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.92	6.92	6.92	0.30	1.35	± 14.0 %
5250	35.9	4.71	5.37	5.37	5.37	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.85	4.85	4.85	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.87	4.87	4.87	0.40	1.80	± 14.0 %

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

^f At frequencies up to 6 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

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

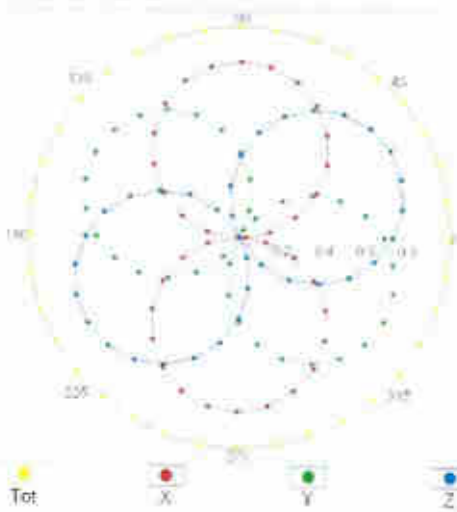
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



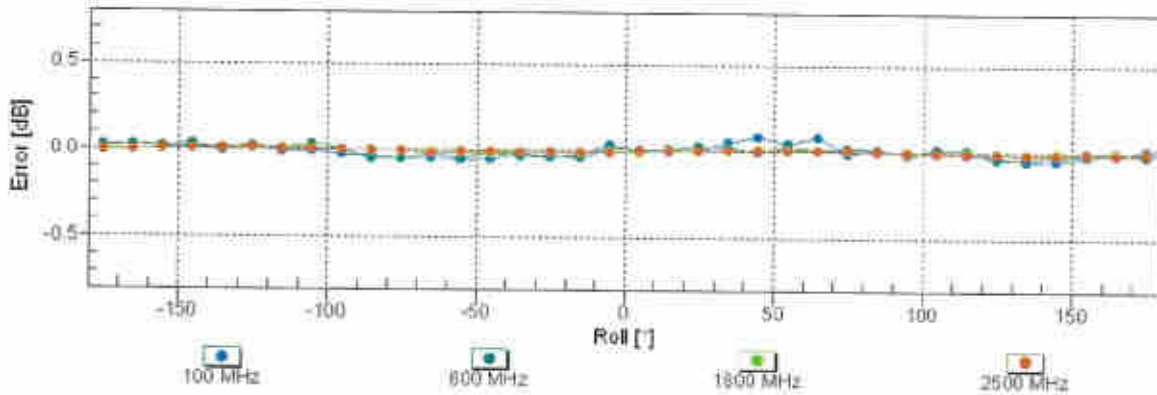
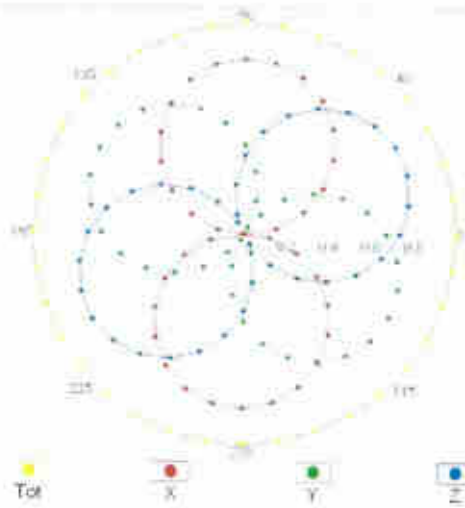
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz,TEM

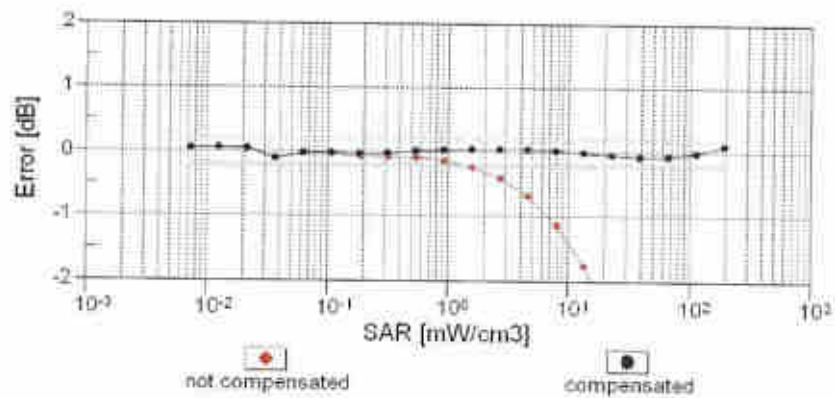
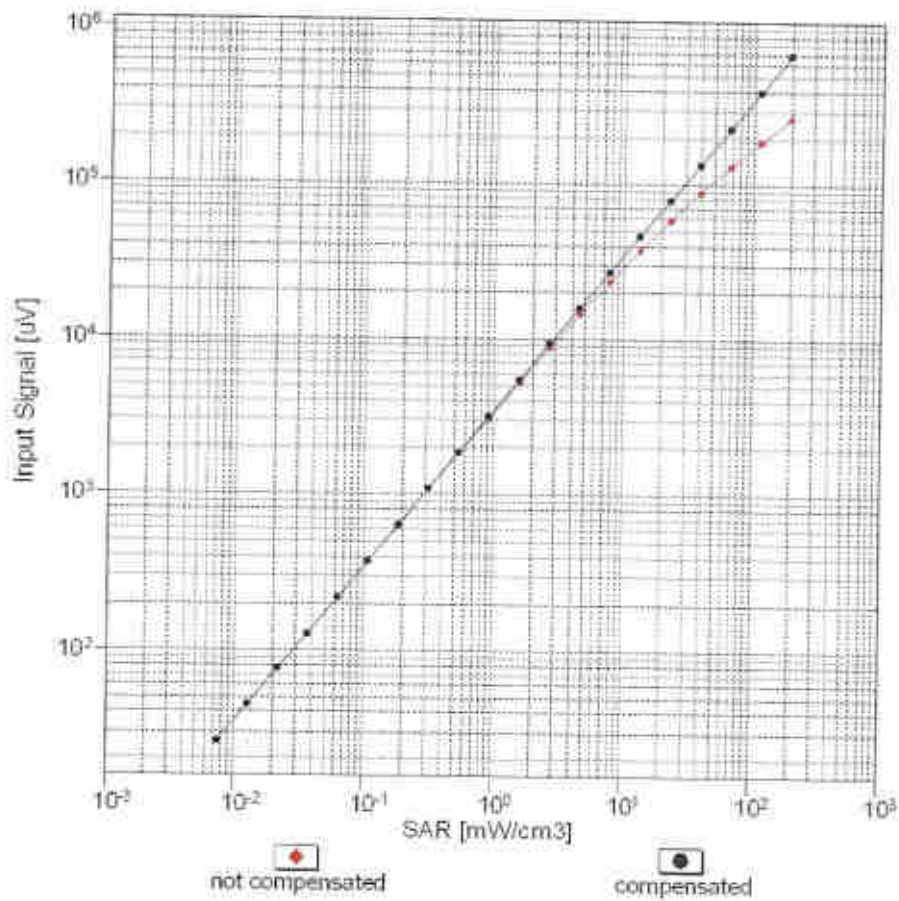


f=1800 MHz,R22



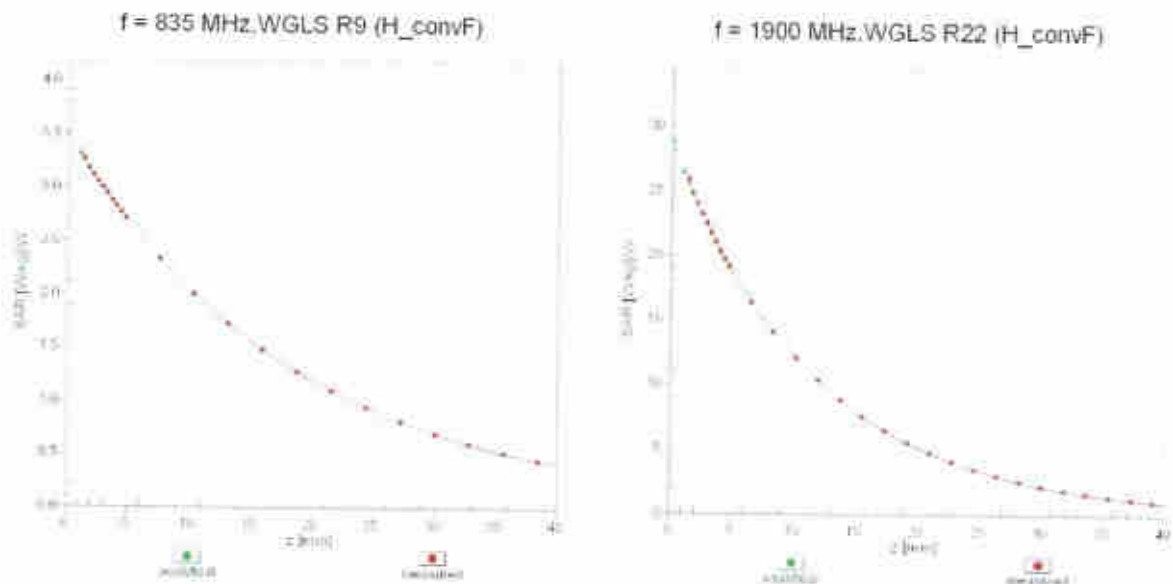
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



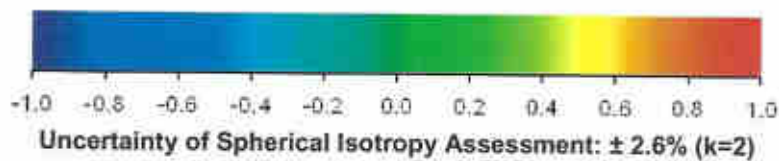
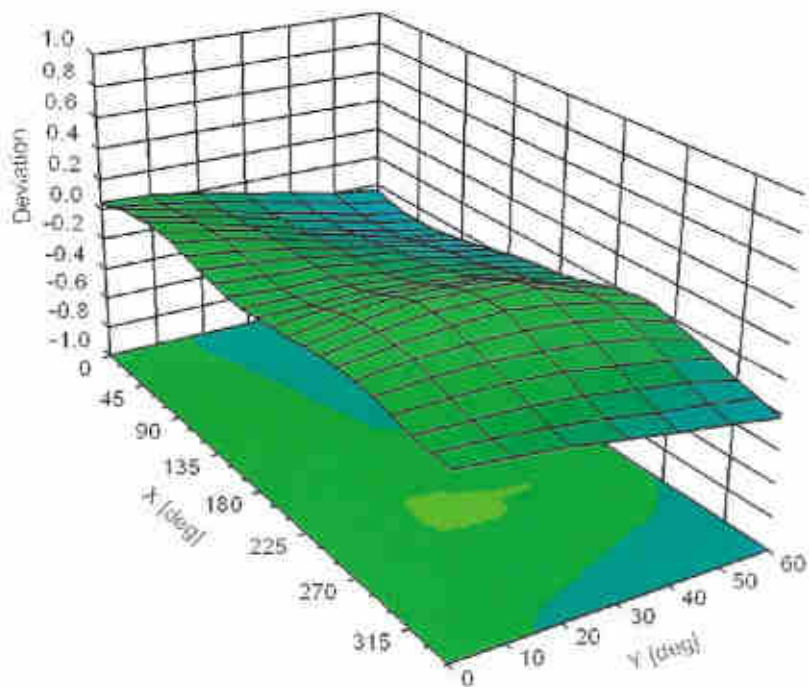
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), f = 900 MHz



Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6%
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6%
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6%
10114	CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6%
10115	CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	±9.6%
10116	CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	±9.6%
10117	CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6%
10118	CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6%
10119	CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6%
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	±9.6%
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	±9.6%
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6%
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6%
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6%
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6%
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6%
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6%
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6%
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6%
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6%
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6%
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	±9.6%
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±9.6%
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6%
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6%
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	±9.6%
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	±9.6%
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	±9.6%
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10171	AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	±9.6%
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	±9.6%
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	±9.6%
10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6%
10186	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6%
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%
10193	CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6%
10194	CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6%
10195	CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6%
10196	CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6%
10197	CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	±9.6%
10198	CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	±9.6%
10219	CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6%

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	±9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	±9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	±9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	±9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	±9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6 %

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SC32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %

10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6 %
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6 %
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6 %
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	±9.6 %
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	±9.6 %
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	±9.6 %
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	±9.6 %
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6 %
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6 %
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6 %
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	±9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	±9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	±9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	±9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	±9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	±9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	±9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	±9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6 %
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6 %

10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10535	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10583	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10584	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	± 9.6 %
10585	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	± 9.6 %
10586	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	± 9.6 %

10587	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	±9.6 %
10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6 %
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	±9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6 %
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6 %
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 %
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	±9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	±9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	±9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6 %

10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6 %
10671	AAA	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6 %
10672	AAA	IEEE 802.11ax (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6 %
10673	AAA	IEEE 802.11ax (20MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6 %
10674	AAA	IEEE 802.11ax (20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6 %
10675	AAA	IEEE 802.11ax (20MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6 %
10676	AAA	IEEE 802.11ax (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10677	AAA	IEEE 802.11ax (20MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6 %
10678	AAA	IEEE 802.11ax (20MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6 %
10679	AAA	IEEE 802.11ax (20MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6 %
10680	AAA	IEEE 802.11ax (20MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6 %
10681	AAA	IEEE 802.11ax (20MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6 %
10682	AAA	IEEE 802.11ax (20MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6 %
10684	AAA	IEEE 802.11ax (20MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6 %
10685	AAA	IEEE 802.11ax (20MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6 %
10686	AAA	IEEE 802.11ax (20MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6 %
10687	AAA	IEEE 802.11ax (20MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6 %
10688	AAA	IEEE 802.11ax (20MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6 %
10689	AAA	IEEE 802.11ax (20MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6 %
10690	AAA	IEEE 802.11ax (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6 %
10691	AAA	IEEE 802.11ax (20MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6 %
10706	AAA	IEEE 802.11ax (40MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6 %
10707	AAA	IEEE 802.11ax (40MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6 %
10708	AAA	IEEE 802.11ax (40MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6 %
10709	AAA	IEEE 802.11ax (40MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6 %
10710	AAA	IEEE 802.11ax (40MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6 %
10711	AAA	IEEE 802.11ax (40MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6 %
10712	AAA	IEEE 802.11ax (40MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6 %
10713	AAA	IEEE 802.11ax (40MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6 %
10714	AAA	IEEE 802.11ax (40MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6 %
10715	AAA	IEEE 802.11ax (40MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6 %
10716	AAA	IEEE 802.11ax (40MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6 %
10717	AAA	IEEE 802.11ax (40MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6 %
10718	AAA	IEEE 802.11ax (40MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6 %
10719	AAA	IEEE 802.11ax (80MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6 %
10720	AAA	IEEE 802.11ax (80MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6 %
10721	AAA	IEEE 802.11ax (80MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6 %
10722	AAA	IEEE 802.11ax (80MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6 %
10723	AAA	IEEE 802.11ax (80MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6 %
10724	AAA	IEEE 802.11ax (80MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6 %
10725	AAA	IEEE 802.11ax (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6 %
10726	AAA	IEEE 802.11ax (80MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6 %

10727	AAA	IEEE 802.11ax (80MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6 %
10728	AAA	IEEE 802.11ax (80MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6 %
10729	AAA	IEEE 802.11ax (80MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6 %
10730	AAA	IEEE 802.11ax (80MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6 %
10731	AAA	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6 %
10732	AAA	IEEE 802.11ax (80MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6 %
10733	AAA	IEEE 802.11ax (80MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6 %
10734	AAA	IEEE 802.11ax (80MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6 %
10735	AAA	IEEE 802.11ax (80MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6 %
10736	AAA	IEEE 802.11ax (80MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6 %
10737	AAA	IEEE 802.11ax (80MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6 %
10738	AAA	IEEE 802.11ax (80MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6 %
10739	AAA	IEEE 802.11ax (80MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6 %
10740	AAA	IEEE 802.11ax (80MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6 %
10741	AAA	IEEE 802.11ax (80MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6 %
10742	AAA	IEEE 802.11ax (80MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6 %
10743	AAA	IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6 %
10744	AAA	IEEE 802.11ax (160MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6 %
10745	AAA	IEEE 802.11ax (160MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6 %
10746	AAA	IEEE 802.11ax (160MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6 %
10747	AAA	IEEE 802.11ax (160MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6 %
10748	AAA	IEEE 802.11ax (160MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6 %
10749	AAA	IEEE 802.11ax (160MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6 %
10750	AAA	IEEE 802.11ax (160MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6 %
10751	AAA	IEEE 802.11ax (160MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6 %
10752	AAA	IEEE 802.11ax (160MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6 %
10753	AAA	IEEE 802.11ax (160MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6 %
10754	AAA	IEEE 802.11ax (160MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6 %
10755	AAA	IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6 %
10756	AAA	IEEE 802.11ax (160MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6 %
10757	AAA	IEEE 802.11ax (160MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6 %
10758	AAA	IEEE 802.11ax (160MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6 %
10759	AAA	IEEE 802.11ax (160MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6 %
10760	AAA	IEEE 802.11ax (160MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6 %
10761	AAA	IEEE 802.11ax (160MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6 %
10762	AAA	IEEE 802.11ax (160MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6 %
10763	AAA	IEEE 802.11ax (160MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6 %
10764	AAA	IEEE 802.11ax (160MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6 %
10765	AAA	IEEE 802.11ax (160MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6 %
10766	AAA	IEEE 802.11ax (160MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6 %
10767	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6 %
10768	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6 %
10769	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6 %
10770	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6 %
10771	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6 %
10772	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6 %
10773	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6 %
10774	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6 %
10776	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6 %
10778	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6 %
10780	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6 %
10781	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6 %

10782	AAB	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAB	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAB	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAB	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAB	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAB	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %

10824	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAB	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAB	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAB	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAB	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAB	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAB	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAB	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAB	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAB	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAB	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAB	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAB	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAB	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAB	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAB	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAB	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAB	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAB	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAB	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAB	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAB	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAB	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAB	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAB	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %

10870	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAC	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAC	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAC	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAC	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAC	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %

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



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Full Power Mode for ANT0

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	834.2	838.4	843.3		834.2	838.4	843.3	
GSM 1 Tx slot	31.65	31.88	31.79	33.00	22.65	22.88	22.79	24.00
GPRS 1 Tx slot	31.64	31.96	31.78	33.00	22.64	22.96	22.78	24.00
GPRS 2 Tx slots	30.29	30.28	30.01	31.00	24.29	24.28	24.01	25.00
GPRS 3 Tx slots	28.21	28.27	27.96	29.00	23.95	24.01	23.70	24.74
GPRS 4 Tx slots	26.26	26.25	26.11	27.00	23.26	23.25	23.11	24.00
EDGE 1 Tx slot	25.81	26.02	25.70	27.00	18.81	17.02	18.70	18.00
EDGE 2 Tx slots	24.99	24.94	24.51	26.00	18.99	18.94	18.51	20.00
EDGE 3 Tx slots	23.06	22.95	22.63	24.00	18.80	18.69	18.37	19.74
EDGE 4 Tx slots	21.03	21.01	20.80	22.00	18.03	18.01	17.80	19.00

Band	WCDMA V			Tune-up Limit (dBm)	
	TX Channel	4132	4182		4233
Rx Channel	4357	4407	4458		
Frequency (MHz)	856.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	24.10	24.05	23.89	24.50
3GPP Rel 99	RMC 12.3Kbps	24.13	24.14	23.90	24.50
3GPP Rel 6	HSDPA Subtest-1	23.20	23.09	22.89	23.50
3GPP Rel 6	HSDPA Subtest-2	23.24	23.12	22.89	23.50
3GPP Rel 6	HSDPA Subtest-3	22.74	22.80	22.39	23.00
3GPP Rel 6	HSDPA Subtest-4	22.73	22.58	22.40	23.00
3GPP Rel 6	DC-HSDPA Subtest-1	23.02	22.96	22.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-2	23.06	22.99	22.82	23.50
3GPP Rel 6	DC-HSDPA Subtest-3	22.56	22.47	22.32	23.00
3GPP Rel 6	DC-HSDPA Subtest-4	22.55	22.45	22.33	23.00
3GPP Rel 6	HSUPA Subtest-1	23.21	23.09	22.86	23.50
3GPP Rel 6	HSUPA Subtest-2	21.19	21.10	20.88	21.50
3GPP Rel 6	HSUPA Subtest-3	22.16	22.08	21.85	22.50
3GPP Rel 6	HSUPA Subtest-4	21.17	21.11	20.90	21.50
3GPP Rel 6	HSUPA Subtest-5	23.20	23.10	22.90	23.50



Band 5 (Cellular Band) Part 22H(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.09	23.22	22.86			
10	QPSK	1	25	22.94	22.99	22.79	24	0	
10	QPSK	1	49	22.85	22.85	22.89			
10	QPSK	25	0	22.14	22.21	21.87			
10	QPSK	25	12	22.20	22.10	21.98	23	1	
10	QPSK	25	25	22.07	22.09	21.90			
10	QPSK	50	0	22.10	22.20	21.84			
10	16QAM	1	0	22.40	22.30	22.48			
10	16QAM	1	25	22.46	22.39	22.17	23	1	
10	16QAM	1	49	22.28	22.22	22.07			
10	16QAM	25	0	21.13	21.08	20.94			
10	16QAM	25	12	21.09	21.05	20.86			
10	16QAM	25	25	21.10	21.07	20.92	22	2	
10	16QAM	50	0	21.23	21.15	20.82			
10	64QAM	1	0	21.28	21.25	21.33			
10	64QAM	1	25	21.15	21.15	21.19	22	2	
10	64QAM	1	49	21.10	21.03	21.09			
10	64QAM	25	0	20.21	20.13	20.09			
10	64QAM	25	12	20.22	20.14	19.92			
10	64QAM	25	25	20.09	20.09	20.15	21	3	
10	64QAM	50	0	20.22	20.01	20.12			
Channel				20425	20505	20605			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.21	23.05	22.91			
5	QPSK	1	12	23.15	23.08	22.94	24	0	
5	QPSK	1	24	23.09	22.97	22.75			
5	QPSK	12	0	22.27	22.09	21.92			
5	QPSK	12	7	22.17	22.03	21.90	23	1	
5	QPSK	12	13	22.12	21.99	21.88			
5	QPSK	25	0	22.21	22.12	21.88			
5	16QAM	1	0	22.48	22.36	22.22			
5	16QAM	1	12	22.35	22.35	22.21	23	1	
5	16QAM	1	24	22.36	22.27	22.12			
5	16QAM	12	0	21.27	21.14	21.01			
5	16QAM	12	7	21.19	21.05	21.00	22	2	
5	16QAM	12	13	21.14	21.00	20.85			
5	16QAM	25	0	21.19	21.09	20.92			
5	64QAM	1	0	21.41	21.24	21.15			
5	64QAM	1	12	21.25	21.20	21.12	22	2	
5	64QAM	1	24	21.30	21.30	20.91			
5	64QAM	12	0	20.31	20.02	20.05			
5	64QAM	12	7	20.15	20.10	20.12	21	3	
5	64QAM	12	13	20.10	20.11	19.92			
5	64QAM	25	0	20.26	20.08	20.00			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.01	22.81	23.12			
3	QPSK	1	8	22.98	22.89	23.18	24	0	
3	QPSK	1	14	22.97	22.82	23.11			
3	QPSK	8	0	22.15	21.94	22.28			
3	QPSK	8	4	22.11	22.02	22.25	23	1	
3	QPSK	8	7	22.04	21.98	22.15			
3	QPSK	15	0	22.13	21.96	22.21			
3	16QAM	1	0	22.36	22.09	22.44			
3	16QAM	1	8	22.28	22.14	22.47	23	1	
3	16QAM	1	14	22.31	22.15	22.36			
3	16QAM	8	0	21.19	20.93	21.28			
3	16QAM	8	4	21.13	21.01	21.30	22	2	
3	16QAM	8	7	21.08	20.98	21.26			
3	16QAM	15	0	21.15	20.98	21.25			
3	64QAM	1	0	21.38	21.12	21.36			
3	64QAM	1	8	21.16	20.98	21.31	22	2	
3	64QAM	1	14	21.18	20.93	21.36			
3	64QAM	8	0	20.26	19.87	20.33			
3	64QAM	8	4	20.03	20.09	20.32	21	3	
3	64QAM	8	7	20.14	20.00	20.07			
3	64QAM	15	0	20.08	19.88	20.11			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.01	23.01	23.04			
1.4	QPSK	1	3	22.93	23.03	23.05	24	0	
1.4	QPSK	1	5	23.03	23.11	23.09			
1.4	QPSK	3	0	22.15	22.31	22.20			
1.4	QPSK	3	1	22.16	22.23	22.26			
1.4	QPSK	3	3	22.08	22.32	22.24	23	1	
1.4	QPSK	6	0	22.20	22.25	22.15			
1.4	16QAM	1	0	22.35	22.43	22.45			
1.4	16QAM	1	3	22.32	22.53	22.46			
1.4	16QAM	1	5	22.36	22.40	22.40	23	1	
1.4	16QAM	3	0	21.11	21.37	21.25			
1.4	16QAM	3	1	21.12	21.26	21.31			
1.4	16QAM	3	3	21.16	21.27	21.05			
1.4	16QAM	6	0	21.21	21.33	21.23	22	2	
1.4	64QAM	1	0	21.28	21.28	21.27			
1.4	64QAM	1	3	21.15	21.37	21.39			
1.4	64QAM	1	5	21.01	21.50	21.14	22	2	
1.4	64QAM	3	0	21.10	21.24	20.86			
1.4	64QAM	3	1	21.08	21.17	21.15			
1.4	64QAM	3	3	21.08	20.94	20.87			
1.4	64QAM	6	0	20.17	20.20	20.29	21	3	

Band 12 (700MHz Low Band) Part 27F(only on channel required)									
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				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.06	23.30	23.26			
10	QPSK	1	25	22.98	23.01	23.13	24	0	
10	QPSK	1	49	23.08	23.09	23.17			
10	QPSK	25	0	22.20	22.36	22.28			
10	QPSK	25	12	22.21	22.21	22.34	23	1	
10	QPSK	25	25	22.13	22.30	22.32			
10	QPSK	50	0	22.25	22.26	22.23			
10	16QAM	1	0	22.40	22.41	22.53			
10	16QAM	1	25	22.37	22.51	22.54	23	1	
10	16QAM	1	49	22.41	22.38	22.48			
10	16QAM	25	0	21.16	21.35	21.33			
10	16QAM	25	12	21.17	21.24	21.39	22	2	
10	16QAM	25	25	21.21	21.25	21.31			
10	16QAM	50	0	21.26	21.31	21.31			
10	64QAM	1	0	21.31	21.26	21.35			
10	64QAM	1	25	21.20	21.31	21.47	22	2	
10	64QAM	1	49	21.06	21.48	21.22			
10	64QAM	25	0	20.35	20.42	20.14			
10	64QAM	25	12	20.33	20.35	20.43	21	3	
10	64QAM	25	25	20.33	20.12	20.15			
10	64QAM	50	0	20.22	20.16	20.37			
Channel				23035	23095	23165			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.08	23.11	23.20			
5	QPSK	1	12	23.05	23.19	23.26	24	0	
5	QPSK	1	24	23.04	23.12	23.19			
5	QPSK	12	0	22.22	22.24	22.36			
5	QPSK	12	7	22.18	22.32	22.33	23	1	
5	QPSK	12	13	22.11	22.28	22.23			
5	QPSK	25	0	22.20	22.26	22.29			
5	16QAM	1	0	22.43	22.39	22.52			
5	16QAM	1	12	22.35	22.44	22.55	23	1	
5	16QAM	1	24	22.38	22.45	22.44			
5	16QAM	12	0	21.26	21.31	21.36			
5	16QAM	12	7	21.20	21.31	21.38	22	2	
5	16QAM	12	13	21.15	21.28	21.34			
5	16QAM	25	0	21.22	21.28	21.33			
5	64QAM	1	0	21.45	21.42	21.44			
5	64QAM	1	12	21.23	21.28	21.39	22	2	
5	64QAM	1	24	21.25	21.23	21.44			
5	64QAM	12	0	20.33	20.17	20.41			
5	64QAM	12	7	20.10	20.39	20.40	21	3	
5	64QAM	12	13	20.21	20.30	20.19			
5	64QAM	25	0	20.15	20.28	20.15			
Channel				2302					



Band 17 (700MHz Band) Part 27H(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				709	710	711			
10	QPSK	1	0	23.09	23.29	23.10			
10	QPSK	1	25	23.20	23.17	23.15			
10	QPSK	1	49	23.16	23.10	23.19	24	0	
10	QPSK	25	0	22.21	22.49	22.25			
10	QPSK	25	12	22.35	22.37	22.35			
10	QPSK	25	25	22.22	22.32	22.39			
10	QPSK	50	0	22.29	22.34	22.24			
10	16QAM	1	0	22.62	22.46	22.47			
10	16QAM	1	25	22.55	22.52	22.54	23	1	
10	16QAM	1	49	22.59	22.46	22.42			
10	16QAM	25	0	21.13	21.33	21.33			
10	16QAM	25	12	21.44	21.36	21.36			
10	16QAM	25	25	21.31	21.43	21.28			
10	16QAM	50	0	21.20	21.30	21.29			
10	64QAM	1	0	21.49	21.37	21.44			
10	64QAM	1	25	21.46	21.52	21.49			
10	64QAM	1	49	21.45	21.48	21.28			
10	64QAM	25	0	20.24	20.19	20.32			
10	64QAM	25	12	20.42	20.39	20.32			
10	64QAM	25	25	20.38	20.42	20.37			
10	64QAM	50	0	20.23	20.32	20.28			
Channel				23750	23760	23825			
Frequency (MHz)				706.5	710	715.5			
5	QPSK	1	0	23.10	23.15	23.20			
5	QPSK	1	12	23.21	23.28	23.30			
5	QPSK	1	24	23.24	23.25	23.21			
5	QPSK	12	0	22.16	22.38	22.34			
5	QPSK	12	7	22.29	22.28	22.40			
5	QPSK	12	13	22.28	22.37	22.43			
5	QPSK	25	0	22.21	22.29	22.27			
5	16QAM	1	0	22.46	22.39	22.55			
5	16QAM	1	12	22.49	22.51	22.54	23	1	
5	16QAM	1	24	22.54	22.57	22.60			
5	16QAM	12	0	21.22	21.38	21.41			
5	16QAM	12	7	21.26	21.28	21.44			
5	16QAM	12	13	21.27	21.42	21.35			
5	16QAM	25	0	21.25	21.32	21.36			
5	64QAM	1	0	21.42	21.46	21.57			
5	64QAM	1	12	21.39	21.50	21.48			
5	64QAM	1	24	21.40	21.63	21.56			
5	64QAM	12	0	20.26	20.35	20.45			
5	64QAM	12	7	20.34	20.41	20.47			
5	64QAM	12	13	20.32	20.42	20.36			
5	64QAM	25	0	20.23	20.31	20.31			

Band 71									
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				133222	133322	133372			
Frequency (MHz)				673	683	688			
20	QPSK	1	0	23.16	23.28	23.25			
20	QPSK	1	49	23.05	22.98	22.96			
20	QPSK	1	99	22.89	22.86	22.87	24	0	
20	QPSK	50	0	22.26	22.27	22.26			
20	QPSK	50	24	22.28	22.06	22.16			
20	QPSK	50	50	22.14	22.06	22.09			
20	QPSK	100	0	22.15	22.16	22.15			
20	16QAM	1	0	22.50	22.61	22.52			
20	16QAM	1	49	22.49	22.44	22.35	23	1	
20	16QAM	1	99	22.40	22.15	22.23			
20	16QAM	50	0	21.19	21.16	21.19			
20	16QAM	50	24	21.20	21.17	21.11			
20	16QAM	50	50	21.21	21.08	21.14			
20	16QAM	100	0	21.22	21.13	21.18			
20	64QAM	1	0	21.46	21.24	21.30			
20	64QAM	1	49	21.12	21.19	21.17			
20	64QAM	1	99	21.10	21.06	21.02			
20	64QAM	50	0	20.23	20.24	20.18			
20	64QAM	50	24	20.30	20.16	20.13			
20	64QAM	50	50	20.15	20.11	20.00			
20	64QAM	100	0	20.24	20.15	20.22			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	23.26	23.17	23.07			
15	QPSK	1	37	23.04	23.07	22.92			
15	QPSK	1	74	22.98	22.98	22.90	24	0	
15	QPSK	36	0	22.25	22.15	22.14			
15	QPSK	36	20	22.21	22.07	22.10			
15	QPSK	36	39	22.17	22.04	22.00			
15	QPSK	75	0	22.17	22.14	22.15			
15	16QAM	1	0	22.56	22.40	22.37			
15	16QAM	1	37	22.48	22.57	22.26			
15	16QAM	1	74	22.36	22.23	22.27	23	1	
15	16QAM	36	0	21.24	21.24	21.11			
15	16QAM	36	20	21.17	21.08	21.13			
15	16QAM	36	39	21.11	21.16	21.01			
15	16QAM	75	0	21.25	21.11	21.08			
15	64QAM	1	0	21.36	21.42	21.21			
15	64QAM	1	37	21.41	21.28	21.10			
15	64QAM	1	74	21.33	21.10	21.03			
15	64QAM	36	0	20.19	20.20	20.17			
15	64QAM	36	20	20.32	20.17	20.20			
15	64QAM	36	39	20.23	20.22	20.13			
15	64QAM	75	0	20.27	20.16	20.13			
Channel				133172	133272	133422			
Frequency (MHz)				668	678	683			
10	QPSK	1	0	23.17	23.05	23.27			
10	QPSK	1	25	22.91	23.04	22.93			
10	QPSK	1	49	22.94	22.93	22.88			
10	QPSK	25	0	22.29	22.21	22.06			
10	QPSK	25	12	22.16	22.19	22.13			
10	QPSK	25	25	22.12	22.16	22.11			
10	QPSK	50	0	22.22	22.15	22.15			
10	16QAM	1	0	22.48	22.51	22.51			
10	16QAM	1	25	22.34	22.43	22.36			
10	16QAM	1	49	22.42	22.40	22.30			
10	16QAM	25	0	21.16	21.24	21.04			
10	16QAM	25	12	21.22	21.22	21.13			
10	16QAM	25	25	21.15	21.20	21.13			
10	16QAM	50	0	21.25	21.28	21.15			
10	64QAM	1	0	21.53	21.38	21.23			
10	64QAM	1	25	21.36	21.45	21.48			
10	64QAM	1	49	21.22	21.31	21.21			
10	64QAM	25	0	20.34	20.21	20.15			
10	64QAM	25	12	20.29	20.23	20.18			
10	64QAM	25	25	20.26	20.27	20.18			
10	64QAM	50	0	20.20	20.24	20.16			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	675.5	685.5			
5	QPSK	1	0	23.22	23.04	23.06			
5	QPSK	1	12	23.25	23.03	22.99			
5	QPSK	1	24	23.02	23.06	22.85			
5	QPSK	12	0	22.30	22.23	22.06			
5	QPSK	12	7	22.22	22.16	22.08			
5	QPSK	12	13	22.19	22.15	22.04			
5	QPSK	25	0	22.29	22.17	22.03			
5	16QAM	1	0	22.48	22.53	22.48			
5	16QAM	1	12	22.35	22.37	22.38			
5	16QAM	1	24	22.36	22.36	22.24			
5	16QAM	12	0	21.36	21.26	21.07			
5	16QAM	12	7	21.25	21.26	21.15			
5	16QAM	12	13	21.23	21.21	20.98			
5	16QAM	25	0	21.22	21.24	21.05			
5	64QAM	1	0	21.51	21.47	21.37			
5	64QAM	1	12	21.35	21.30	21.26			
5	64QAM	1	24	21.45	21.26	21.15			
5	64QAM	12	0	20.39	20.22	20.19			
5	64QAM	12	7	20.32	20.33	20.17			
5	64QAM	12	13	20.25	20.24	20.04			
5	64QAM	25	0	20.30	20.26	20.05			



Full Power Mode for ANT2

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.77	29.02	29.00	30.00	19.77	20.02	20.00	21.00
GPRS 1 Tx slot	28.75	29.01	28.98	30.00	19.75	20.01	19.98	21.00
GPRS 2 Tx slots	27.10	27.09	26.92	28.00	21.10	21.09	20.92	22.00
GPRS 3 Tx slots	24.97	25.04	24.92	26.00	20.71	20.78	20.66	21.74
GPRS 4 Tx slots	22.75	22.98	22.84	24.00	19.75	19.98	19.84	21.00
EDGE 1 Tx slot	24.63	24.85	24.66	26.00	15.63	15.85	15.66	17.00
EDGE 2 Tx slots	23.85	23.79	23.77	25.00	17.85	17.79	17.77	19.00
EDGE 3 Tx slots	22.03	22.14	21.98	23.00	17.77	17.88	17.72	18.74
EDGE 4 Tx slots	20.19	20.07	19.99	21.00	17.19	17.07	16.99	18.00

Band Tx Channel	WCDMA I			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9682	9690	9638		1312	1413	1513	
Frequency (MHz)	1852.4	1850	1877.8		1712.4	1722.5	1752.3	
3GPP Rel 99 AMR 12.2Kbps	23.40	23.45	23.45	24.50	24.01	23.88	23.99	24.50
3GPP Rel 99 RMC 12.2Kbps	23.43	23.60	23.48	24.50	24.06	23.98	24.05	24.50
3GPP Rel 6 HSDPA Subtest-1	22.41	22.50	22.50	23.50	22.68	22.64	22.63	23.50
3GPP Rel 6 HSDPA Subtest-2	22.45	22.48	22.50	23.50	22.73	22.59	22.61	23.50
3GPP Rel 6 HSDPA Subtest-3	21.93	22.00	22.00	23.00	22.18	22.08	22.12	23.00
3GPP Rel 6 HSDPA Subtest-4	21.96	21.97	21.97	23.00	22.19	22.09	22.11	23.00
3GPP Rel 6 DC-HSDPA Subtest-1	22.23	22.37	22.43	23.50	22.50	22.51	22.56	23.50
3GPP Rel 6 DC-HSDPA Subtest-2	22.27	22.35	22.43	23.50	22.55	22.46	22.54	23.50
3GPP Rel 6 DC-HSDPA Subtest-3	21.75	21.87	21.93	23.00	22.00	21.95	22.05	23.00
3GPP Rel 6 DC-HSDPA Subtest-4	21.72	21.84	21.90	23.00	22.01	21.96	22.04	23.00
3GPP Rel 6 HSUPA Subtest-1	22.36	22.48	22.53	23.50	22.71	22.62	22.61	23.50
3GPP Rel 6 HSUPA Subtest-2	20.13	20.25	20.35	21.50	20.45	20.35	20.40	21.50
3GPP Rel 6 HSUPA Subtest-3	21.16	21.29	21.35	22.50	21.47	21.37	21.42	22.50
3GPP Rel 6 HSUPA Subtest-4	20.14	20.24	20.32	21.50	20.46	20.36	20.43	21.50
3GPP Rel 6 HSUPA Subtest-5	22.12	22.25	22.31	23.50	22.40	22.30	22.40	23.50



Band 2 (1900MHz Band)
Part 2M2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High (dBm)	Turn-up (min)	MPR (dB)
20	QPSK	1	0	22.47	22.52	22.54	24	0
20	QPSK	1	48	22.47	22.52	22.54	24	0
20	QPSK	1	96	22.47	22.52	22.57	24	0
20	QPSK	50	0	21.71	21.62	21.77	23	1
20	QPSK	50	24	21.61	21.62	21.70	23	1
20	QPSK	50	48	21.62	21.67	21.84	23	1
20	QPSK	100	0	21.70	21.71	21.70	23	1
20	16QAM	1	0	21.96	21.98	21.97	23	1
20	16QAM	1	48	21.96	21.98	21.99	23	1
20	16QAM	1	96	21.94	21.92	21.98	23	1
20	16QAM	50	0	20.87	20.89	20.77	22	2
20	16QAM	50	24	20.72	20.72	20.80	22	2
20	16QAM	50	48	20.83	20.82	20.73	22	2
20	16QAM	100	0	20.72	20.69	20.70	22	2
20	64QAM	1	0	20.86	20.88	20.78	22	2
20	64QAM	1	48	20.78	20.81	20.75	22	2
20	64QAM	1	96	20.87	20.85	20.71	22	2
20	64QAM	50	0	19.85	19.45	19.85	21	3
20	64QAM	50	24	19.58	19.54	19.71	21	3
20	64QAM	50	48	19.63	19.58	19.85	21	3
15	QPSK	1	0	22.66	22.81	22.88	24	0
15	QPSK	1	37	22.56	22.43	22.83	24	0
15	QPSK	1	74	22.47	22.49	22.54	24	0
15	QPSK	36	0	21.68	21.61	21.70	23	1
15	QPSK	36	20	21.68	21.62	21.72	23	1
15	QPSK	36	39	21.59	21.54	21.84	23	1
15	QPSK	75	0	21.62	21.59	21.83	23	1
15	16QAM	1	0	21.89	21.86	21.82	23	1
15	16QAM	1	37	21.85	21.79	21.89	23	1
15	16QAM	1	74	21.78	21.79	21.85	23	1
15	16QAM	36	0	20.88	20.85	20.88	22	2
15	16QAM	36	20	20.84	20.59	20.70	22	2
15	16QAM	36	39	20.57	20.52	20.85	22	2
15	16QAM	75	0	20.84	20.86	20.83	22	2
15	16QAM	75	0	21.17	21.17	21.85	22	2
15	64QAM	1	37	21.87	21.84	21.78	22	2
15	64QAM	1	74	21.82	21.89	21.88	22	2
15	64QAM	36	0	20.88	20.85	20.88	21	3
15	64QAM	36	20	20.84	20.58	20.68	21	3
15	64QAM	36	39	20.56	20.57	20.85	21	3
15	64QAM	75	0	20.87	20.86	20.84	21	3
10	QPSK	1	0	22.56	22.61	22.59	24	0
10	QPSK	1	25	22.52	22.46	22.67	24	0
10	QPSK	1	50	22.57	22.57	22.64	24	0
10	QPSK	25	0	21.63	21.50	21.62	23	1
10	QPSK	25	12	21.68	21.63	21.67	23	1
10	QPSK	25	25	21.67	21.63	21.72	23	1
10	QPSK	50	0	21.68	21.62	21.84	23	1
10	16QAM	1	0	21.96	21.87	21.99	23	1
10	16QAM	1	25	21.91	21.83	22.00	23	1
10	16QAM	1	50	21.88	21.86	21.88	23	1
10	16QAM	25	0	20.84	20.51	20.84	22	2
10	16QAM	25	12	20.88	20.84	20.88	22	2
10	16QAM	25	25	20.88	20.87	20.87	22	2
10	16QAM	50	0	21.85	21.82	22.00	22	2
10	16QAM	50	12	21.88	21.85	21.94	22	2
10	16QAM	50	25	21.86	21.86	21.86	22	2
10	64QAM	1	0	20.83	20.54	20.86	21	3
10	64QAM	25	0	20.72	20.52	20.72	21	3
10	64QAM	25	12	20.87	20.82	20.73	21	3
10	64QAM	25	25	20.87	20.81	20.87	21	3
5	QPSK	1	0	22.54	22.59	22.60	24	0
5	QPSK	1	24	22.51	22.53	22.83	24	0
5	QPSK	12	0	21.63	21.49	21.65	23	1
5	QPSK	12	6	21.62	21.54	21.74	23	1
5	QPSK	12	13	21.62	21.51	21.69	23	1
5	QPSK	25	0	21.63	21.58	21.71	23	1
5	16QAM	1	0	21.91	21.80	21.85	23	1
5	16QAM	1	12	21.88	21.87	21.87	23	1
5	16QAM	1	24	21.83	21.87	21.87	23	1
5	16QAM	12	0	20.86	20.53	20.73	22	2
5	16QAM	12	6	20.89	20.80	20.84	22	2
5	16QAM	12	13	20.84	20.72	20.72	22	2
5	16QAM	25	0	20.86	20.58	20.70	22	2
5	16QAM	25	6	20.86	20.58	20.70	22	2
5	64QAM	1	0	21.80	21.72	21.83	22	2
5	64QAM	1	12	21.78	21.82	21.82	22	2
5	64QAM	1	24	21.80	21.77	21.87	22	2
5	64QAM	12	0	20.59	20.53	20.86	21	3
5	64QAM	12	6	20.87	20.86	20.72	21	3
5	64QAM	12	13	20.84	20.70	20.70	21	3
5	64QAM	25	0	20.86	20.59	20.73	21	3
3	QPSK	1	0	22.54	22.42	22.58	24	0
3	QPSK	1	8	22.81	22.86	22.85	24	0
3	QPSK	1	14	22.57	22.53	22.59	24	0
3	QPSK	8	0	21.58	21.61	21.63	23	1
3	QPSK	8	4	21.68	21.59	21.72	23	1
3	QPSK	8	7	21.68	21.55	21.69	23	1
3	QPSK	15	0	21.63	21.55	21.68	23	1
3	16QAM	1	8	21.97	21.85	21.99	23	1
3	16QAM	1	14	21.89	21.88	21.90	23	1
3	16QAM	8	0	20.89	20.80	20.75	22	2
3	16QAM	8	4	20.75	20.88	20.78	22	2
3	16QAM	8	7	20.87	20.84	20.73	22	2
3	16QAM	15	0	20.86	20.62	20.71	22	2
3	64QAM	1	8	21.76	21.68	21.79	22	2
3	64QAM	1	14	21.78	21.75	21.84	22	2
3	64QAM	8	0	20.87	20.80	20.81	21	3
3	64QAM	8	4	20.86	20.85	20.70	21	3
3	64QAM	8	7	20.85	20.81	20.70	21	3
3	64QAM	15	0	20.86	20.60	20.71	21	3
1.4	QPSK	1	0	22.47	22.42	22.52	24	0
1.4	QPSK	1	3	22.53	22.48	22.56	24	0
1.4	QPSK	1	6	22.48	22.43	22.49	24	0
1.4	QPSK	3	0	22.48	22.45	22.52	24	0
1.4	QPSK	3	1	22.56	22.50	22.55	24	0
1.4	QPSK	3	2	22.54	22.41	22.58	24	0
1.4	QPSK	3	5	21.61	21.61	21.81	23	1
1.4	16QAM	1	0	21.80	21.75	21.85	23	1
1.4	16QAM	1	3	21.86	21.81	21.92	23	1
1.4	16QAM	1	6	21.81	21.76	21.84	23	1
1.4	16QAM	3	0	21.83	21.58	21.85	23	1
1.4	16QAM	3	1	21.85	21.58	21.89	23	1
1.4	16QAM	3	2	21.81	21.52	21.82	23	1
1.4	16QAM	3	5	20.88	20.60	20.88	22	2
1.4	64QAM	1	0	21.72	21.65	21.75	22	2
1.4	64QAM	1	3	21.78	21.72	21.78	22	2
1.4	64QAM	1	6	21.74	21.64	21.73	22	2
1.4	64QAM	3	0	21.88	21.59	21.89	22	2
1.4	64QAM	3	1	21.70	21.62	21.72	22	2
1.4	64QAM	3	2	21.65	21.56	21.65	22	2
1.4	64QAM	3	5	20.89	20.51	20.82	21	3

Band 4 (AWS Band)
Part 2L2 (only on channel required)

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power High Ch. (dBm)	Power High (dBm)	Turn-up (min)	MPR (dB)
20	QPSK	1	0	22.67	22.69	22.64	24	0
20	QPSK	1	48	22.42	22.42	22.44	24	0
20	QPSK	1	96	22.47	22.55	22.57	24	0
20	QPSK	50	0	21.71	21.62	21.77	23	1
20	QPSK	50	24	21.61	21.62	21.70	23	1
20	QPSK	50	48	21.62	21.67	21.84	23	1
20	QPSK	100	0	21.70	21.71	21.70	23	1
20	16QAM	1	0	21.98	21.98	21.97	23	1
20	16QAM	1	48	21.98	21.98	21.99	23	1
20	16QAM	1	96	21.94	21.92	21.98	23	1
20	16QAM	50	0	20.87	20.89	20.77	22	2
20	16QAM	50	24	20.72	20.72	20.80	22	2
20	16QAM	50	48	20.83	20.82	20.73	22	2
20	16QAM	100	0	20.72	20.69	20.70	22	2
20	64QAM	1	0	20.86				



Band 33(only on channel required)												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Min Ch / Freq	Power Avg Ch / Freq	Power Peak Ch / Freq	Time-up limit (dBm)	MPR (dB)
Channel												
Frequency (MHz)				37650	38000	38150						
20	QPSK	1	0	22.93	22.96	22.95					24	0
20	QPSK	1	49	22.76	22.79	22.78					23	1
20	QPSK	1	99	22.58	22.61	22.60					22	2
20	QPSK	50	0	21.92	21.93	21.97					21	3
20	QPSK	50	24	21.87	21.88	21.92					20	0
20	QPSK	50	49	21.80	21.81	21.85					23	1
20	QPSK	100	0	21.99	22.03	22.02					23	1
20	16QAM	1	0	22.04	22.07	22.07					22	2
20	16QAM	1	49	21.84	21.82	21.82					21	3
20	16QAM	1	99	21.66	21.66	21.78					22	2
20	16QAM	50	0	20.98	21.02	21.03					21	3
20	16QAM	50	24	20.99	20.98	21.05					20	0
20	16QAM	50	49	20.93	20.96	21.00					23	1
20	16QAM	100	0	21.00	20.97	21.08					22	2
20	16QAM	100	0	20.63	20.59	20.61					21	3
20	16QAM	1	49	20.32	20.33	20.38					22	2
20	16QAM	1	99	20.42	20.48	20.45					21	3
20	16QAM	50	0	19.86	19.87	19.83					20	0
20	16QAM	50	24	20.05	19.98	20.08					23	1
20	16QAM	50	49	19.93	19.99	19.97					22	2
20	16QAM	100	0	19.99	19.96	20.05					21	3
Channel												
Frequency (MHz)				37625	38000	38175						
15	QPSK	1	0	22.86	22.86	22.88					24	0
15	QPSK	1	37	22.93	22.93	22.85					23	1
15	QPSK	1	74	22.76	22.73	22.85					22	2
15	QPSK	36	20	21.97	21.92	21.91					21	3
15	QPSK	36	39	21.92	21.96	21.95					20	0
15	QPSK	75	0	21.96	21.93	21.92					23	1
15	QPSK	75	0	22.02	22.01	22.01					22	2
15	16QAM	1	37	21.71	21.76	21.82					21	3
15	16QAM	1	74	21.88	21.91	21.87					20	0
15	16QAM	36	0	20.69	20.91	20.67					23	1
15	16QAM	36	39	20.93	20.98	20.97					22	2
15	16QAM	36	39	20.88	20.90	20.95					21	3
15	16QAM	75	0	21.03	20.93	20.95					20	0
15	16QAM	75	0	20.62	20.67	20.66					23	1
15	16QAM	1	37	21.02	21.03	21.08					22	2
15	16QAM	1	74	20.40	20.49	20.45					21	3
15	16QAM	36	0	19.95	19.96	19.94					20	0
15	16QAM	36	39	19.97	19.98	20.04					23	1
15	16QAM	75	0	20.04	19.96	19.99					22	2
15	16QAM	75	0	20.04	19.96	19.99					21	3
Channel												
Frequency (MHz)				37600	38000	38200						
10	QPSK	1	0	22.81	22.83	22.83					24	0
10	QPSK	1	25	22.80	22.84	22.87					23	1
10	QPSK	1	49	22.73	22.75	22.80					22	2
10	QPSK	25	0	22.02	21.95	21.97					21	3
10	QPSK	25	12	21.96	21.91	21.88					20	0
10	QPSK	25	25	21.90	21.97	21.93					23	1
10	QPSK	50	0	21.95	21.93	21.88					22	2
10	16QAM	1	0	22.07	22.08	22.05					21	3
10	16QAM	1	25	21.97	21.99	21.97					20	0
10	16QAM	1	49	21.93	21.92	21.95					23	1
10	16QAM	25	0	20.96	20.91	20.96					22	2
10	16QAM	25	12	21.02	21.07	21.07					21	3
10	16QAM	25	25	20.92	20.92	20.94					20	0
10	16QAM	50	0	20.91	20.93	20.94					23	1
10	16QAM	50	0	20.91	19.94	19.90					22	2
10	16QAM	50	0	20.91	19.94	19.90					21	3
Channel												
Frequency (MHz)				2571.5	2595	2617.5						
5	QPSK	1	0	22.93	22.86	22.80					24	0
5	QPSK	1	12	22.81	22.87	22.85					23	1
5	QPSK	1	24	22.82	22.86	22.80					22	2
5	QPSK	12	0	22.02	21.91	22.00					21	3
5	QPSK	12	7	21.96	21.91	22.01					20	0
5	QPSK	12	13	21.94	21.97	21.99					23	1
5	QPSK	25	0	21.96	21.93	21.96					22	2
5	QPSK	25	0	22.08	22.01	22.07					21	3
5	16QAM	1	12	22.08	22.02	22.01					20	0
5	16QAM	1	24	22.03	22.07	22.00					23	1
5	16QAM	12	0	20.99	20.91	20.96					22	2
5	16QAM	12	7	20.95	20.90	21.00					21	3
5	16QAM	12	13	20.88	20.93	20.92					20	0
5	16QAM	25	0	21.01	20.96	21.02					23	1
5	16QAM	1	0	20.71	20.68	20.64					22	2
5	16QAM	1	12	20.62	20.62	20.69					21	3
5	16QAM	1	24	20.60	20.61	20.58					20	0
5	16QAM	12	0	20.05	20.00	20.05					23	1
5	16QAM	12	7	20.03	19.98	20.05					22	2
5	16QAM	12	13	19.99	20.01	20.02					21	3
5	16QAM	25	0	20.01	19.96	20.05					20	0

Band 41 (2.6G Band)												
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Min Ch / Freq	Power Avg Ch / Freq	Power Peak Ch / Freq	Time-up limit (dBm)	MPR (dB)
Channel												
Frequency (MHz)				39750	40185	40620	41055	41490				
20	QPSK	1	0	22.89	23.09	23.16	23.30	23.33			24	0
20	QPSK	1	49	22.90	22.94	22.95	23.24	23.25			23	1
20	QPSK	1	99	22.84	23.03	23.15	23.29	23.05			22	2
20	QPSK	50	0	21.99	22.11	22.11	22.26	22.35			21	3
20	QPSK	50	24	22.08	22.07	22.08	22.28	22.13			20	0
20	QPSK	50	49	22.00	22.15	22.15	22.30	22.25			23	1
20	QPSK	100	0	22.08	22.14	22.15	22.23	22.24			23	1
20	16QAM	1	0	22.04	22.02	22.19	22.21	22.21			22	2
20	16QAM	1	49	21.96	22.04	22.05	22.22	22.12			21	3
20	16QAM	1	99	22.00	22.00	22.26	22.23	22.15			20	0
20	16QAM	50	0	21.05	21.07	21.12	21.28	21.05			23	1
20	16QAM	50	24	21.19	21.22	21.17	21.29	21.11			22	2
20	16QAM	50	49	21.03	21.12	21.18	21.36	21.08			21	3
20	16QAM	100	0	21.12	21.21	21.19	21.36	21.20			20	0
20	16QAM	100	0	21.00	21.30	21.30	21.40	21.08			23	1
20	16QAM	1	49	21.05	21.04	20.98	21.16	21.06			22	2
20	16QAM	1	99	21.17	21.03	21.13	21.31	21.25			21	3
20	16QAM	50	0	20.25	20.27	20.24	20.49	20.29			20	0
20	16QAM	50	24	20.28	20.32	20.39	20.58	20.31			23	1
20	16QAM	50	49	20.30	20.31	20.36	20.50	20.38			22	2
20	16QAM	100	0	20.39	20.43	20.41	20.67	20.41			21	3
Channel												
Frequency (MHz)				39725	40173	40600	41050	41515				
15	QPSK	1	0	22.96	22.97	22.97	23.04	23.27			24	0
15	QPSK	1	37	22.93	23.00	22.96	22.93	23.09			23	1
15	QPSK	1	74	23.02	23.00	22.97	23.19	23.16			22	2
15	QPSK											



Full Power Mode for ANT1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	814.2	836.4	848.6		814.2	836.4	848.6	
GSM 1 Tx slot	31.22	31.35	31.17	33.00	22.22	22.35	22.17	24.00
GPRS 1 Tx slot	31.21	31.34	31.16	33.00	22.21	22.34	22.16	24.00
GPRS 2 Tx slots	29.99	29.90	29.66	31.00	23.99	23.90	23.66	25.00
GPRS 3 Tx slots	27.56	27.68	27.61	29.00	23.30	23.42	23.35	24.74
GPRS 4 Tx slots	25.25	25.65	25.70	27.00	22.25	22.65	22.70	24.00
EDGE 1 Tx slot	25.30	25.71	25.53	27.00	16.39	16.71	16.53	18.00
EDGE 2 Tx slots	24.47	24.70	24.38	26.00	18.47	18.70	18.38	20.00
EDGE 3 Tx slots	22.43	22.71	22.50	24.00	16.17	16.45	16.24	19.74
EDGE 4 Tx slots	20.45	20.79	20.44	22.00	17.45	17.79	17.44	19.00

Band	WCDMA V			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4132	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kops	23.12	23.20	23.00	24.00
3GPP Rel 99	RMC 12.2kops	23.15	23.21	23.01	24.00
3GPP Rel 6	HSDPA Subtest-1	22.27	22.17	22.03	23.00
3GPP Rel 6	HSDPA Subtest-2	22.30	22.17	21.95	23.00
3GPP Rel 6	HSDPA Subtest-3	21.75	21.65	21.49	22.50
3GPP Rel 6	HSDPA Subtest-4	21.81	21.68	21.50	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	22.08	22.04	21.96	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	22.12	22.04	21.88	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.57	21.52	21.42	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.63	21.55	21.43	22.50
3GPP Rel 6	HSUPA Subtest-1	22.28	22.18	21.99	23.00
3GPP Rel 6	HSUPA Subtest-2	20.28	20.20	20.02	21.00
3GPP Rel 6	HSUPA Subtest-3	21.28	21.15	20.96	22.00
3GPP Rel 6	HSUPA Subtest-4	20.27	20.18	19.97	21.00
3GPP Rel 6	HSUPA Subtest-5	22.30	22.10	22.00	23.00



Band 22H(only on channel required)												
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)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Channel				20450	20525	20600						
Frequency (MHz)				829	836.5	844						
10	QPSK	1	0	22.14	22.30	22.08			1.42	1.20		
10	QPSK	1	25	22.08	22.08	22.17			1.42	1.33		0.30
10	QPSK	1	49	22.08	22.08	22.08			1.50	1.50		
10	QPSK	25	0	21.28	21.25	21.08			1.42	1.21		
10	QPSK	25	12	21.20	21.14	21.06			1.44	1.30		0.23
10	QPSK	25	25	21.21	21.16	21.13			1.37	1.29		
10	QPSK	50	0	21.32	21.33	21.07			1.43	1.17		0.26
10	16QAM	1	0	21.45	21.61	21.34			1.16	0.89		
10	16QAM	1	25	21.43	21.46	21.39			1.11	1.04		0.33
10	16QAM	1	49	21.28	21.45	21.35			1.22	1.05		
10	16QAM	25	0	20.18	20.08	20.02			1.48	1.32		
10	16QAM	25	12	20.25	20.13	19.95			1.55	1.25		0.30
10	16QAM	25	25	20.17	20.19	20.10			1.40	1.31		
10	16QAM	50	0	20.23	20.12	20.01			1.49	1.27		0.22
10	64QAM	1	0	21.45	21.44	21.50			0.06	0.00		
10	64QAM	1	25	21.45	21.41	21.24			0.26	0.05		0.26
10	64QAM	1	49	21.45	21.43	21.40			0.10	0.05		
10	64QAM	25	0	20.23	20.19	20.09			0.41	0.27		
10	64QAM	25	12	20.29	20.10	20.12			0.40	0.41		0.20
10	64QAM	25	25	20.15	20.14	20.10			0.40	0.35		
10	64QAM	50	0	20.15	20.15	20.10			0.40	0.35		0.05
Channel				20425	20525	20625						
Frequency (MHz)				828.5	836.5	844.5						
5	QPSK	1	0	22.25	22.10	22.00			1.50	1.25		
5	QPSK	1	12	22.14	22.13	21.92			1.58	1.36		0.42
5	QPSK	1	24	22.00	22.06	21.83			1.67	1.44		
5	QPSK	12	0	21.28	21.22	21.02			1.48	1.22		
5	QPSK	12	7	21.21	21.16	21.02			1.48	1.29		0.27
5	QPSK	12	13	21.23	21.07	21.01			1.49	1.27		
5	QPSK	25	0	21.21	21.12	20.93			1.57	1.29		0.28
5	16QAM	1	0	21.84	21.48	21.25			1.25	0.96		
5	16QAM	1	12	21.95	21.41	21.28			1.22	0.95		0.50
5	16QAM	1	24	21.41	21.37	21.14			1.38	1.09		
5	16QAM	12	0	20.32	20.14	20.00			1.50	1.18		
5	16QAM	12	7	20.26	20.09	20.03			1.47	1.24		0.41
5	16QAM	12	13	20.18	20.15	19.91			1.59	1.32		
5	16QAM	25	0	20.28	20.17	19.97			1.53	1.22		0.31
5	64QAM	1	0	21.60	21.28	21.19			0.31	0.00		
5	64QAM	1	12	21.41	21.29	21.13			0.37	0.00		0.41
5	64QAM	1	24	21.15	21.26	21.09			0.41	0.24		
5	64QAM	12	0	20.27	20.21	20.01			0.49	0.23		
5	64QAM	12	7	20.00	20.15	20.15			0.50	0.35		0.27
5	64QAM	12	13	20.21	20.10	20.26			0.40	0.24		
5	64QAM	25	0	20.16	20.10	20.16			0.40	0.34		0.06
Channel				20415	20525	20635						
Frequency (MHz)				825.5	836.5	847.5						
3	QPSK	1	0	22.14	22.08	21.94			1.58	1.36		
3	QPSK	1	8	22.16	22.04	21.94			1.56	1.34		0.38
3	QPSK	1	14	22.03	21.96	21.78			1.72	1.47		
3	QPSK	8	0	21.28	21.02	21.00			1.50	1.24		
3	QPSK	8	4	21.20	21.04	20.95			1.55	1.30		0.36
3	QPSK	8	7	21.11	21.08	20.90			1.60	1.39		
3	QPSK	15	0	21.22	21.07	20.99			1.51	1.28		0.23
3	16QAM	1	0	21.40	21.33	21.26			1.24	1.10		
3	16QAM	1	8	21.45	21.40	21.23			1.27	1.05		0.40
3	16QAM	1	14	21.44	21.30	21.05			1.45	1.09		
3	16QAM	8	0	20.31	20.11	20.08			1.42	1.10		
3	16QAM	8	4	20.29	20.11	20.07			1.43	1.21		0.30
3	16QAM	8	7	20.19	20.05	20.01			1.49	1.31		
3	16QAM	15	0	20.22	20.08	19.97			1.53	1.28		0.25
3	64QAM	1	0	21.37	21.25	21.14			0.36	0.13		
3	64QAM	1	8	21.37	21.23	21.03			0.47	0.13		0.34
3	64QAM	1	14	21.25	21.26	21.11			0.39	0.24		
3	64QAM	8	0	20.28	20.14	20.15			0.36	0.22		
3	64QAM	8	4	20.26	20.10	20.20			0.40	0.24		0.18
3	64QAM	8	7	20.13	20.12	20.15			0.38	0.35		
3	64QAM	15	0	20.14	20.01	20.01			0.49	0.36		0.13
Channel				20407	20525	20643						
Frequency (MHz)				824.7	836.5	848.3						
1.4	QPSK	1	0	22.07	21.87	21.77			1.73	1.43		
1.4	QPSK	1	3	22.09	22.01	21.87			1.63	1.41		0.34
1.4	QPSK	1	5	22.00	21.94	21.75			1.76	1.50		
1.4	QPSK	3	0	22.04	21.91	21.83			1.67	1.48		
1.4	QPSK	3	1	22.07	22.04	21.87			1.63	1.43		0.33
1.4	QPSK	3	3	22.05	21.99	21.74			1.76	1.45		
1.4	QPSK	6	0	21.11	20.93	20.90			1.60	1.39		0.21
1.4	16QAM	1	0	21.34	21.24	21.16			1.34	1.16		
1.4	16QAM	1	3	21.44	21.29	21.29			1.21	1.06		0.45
1.4	16QAM	1	5	21.28	21.18	20.99			1.51	1.22		
1.4	16QAM	3	0	21.15	20.92	20.85			1.65	1.35		
1.4	16QAM	3	1	21.20	21.07	20.91			1.59	1.30		0.42
1.4	16QAM	3	3	21.15	21.01	20.78			1.72	1.35		
1.4	16QAM	6	0	20.35	20.05	19.95			1.55	1.30		0.25
1.4	64QAM	1	0	21.01	21.07	21.15			1.49	1.35		
1.4	64QAM	1	3	21.03	21.03	21.05			1.47	1.45		0.19
1.4	64QAM	1	5	21.05	21.01	20.96			1.54	1.45		
1.4	64QAM	3	0	21.16	20.99	20.86			1.64	1.34		
1.4	64QAM	3	1	21.15	21.00	20.80			1.70	1.35		0.36
1.4	64QAM	3	3	21.15	21.01	20.92			1.58	1.35		
1.4	64QAM	6	0	20.08	20.02	20.01			1.49	1.42		0.07

Band 12 (700MHz Low Band)												
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)	< Tune-up-2	> Tune-up	Ch Delta > 0.5	
Channel				23060	23055	23130						
Frequency (MHz)				704	707.5	711						
10	QPSK	1	0	22.21	22.35	22.20			1.42	1.20		
10	QPSK	1	25	22.08	22.17	22.16			1.42	1.33		0.30
10	QPSK	1	49	22.11	22.24	22.26			1.50	1.50		
10	QPSK	25	0	21.23	21.43	21.43			1.42	1.21		
10	QPSK	25	12	21.33	21.29	21.47			1.44	1.30		0.23
10	QPSK	25	25	21.33	21.36	21.41			1.37	1.29		
10	QPSK	50	0	21.22	21.44	21.43			1.43	1.17		0.26
10	16QAM	1	0	21.58	21.43	21.59			1.16	0.89		
10	16QAM	1	25	21.51	21.65	21.53			1.11	1.04		0.33
10	16QAM	1	49	21.62	21.63	21.43			1.22	1.05		
10	16QAM	25	0	20.32	20.38	20.38			1.48	1.32		
10	16QAM	25	12	20.35	20.28	20.41			1.55	1.25		0.30
10	16QAM	25	25	20.33	20.36	20.40			1.40	1.31		
10	16QAM	50	0</									



Band 17 (700MHz Band)									
Part 27H(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				23780	23790	23800			
Frequency (MHz)				705	710	711			
10	QPSK	1	0	22.21	22.34	22.24	23.5	0	
10	QPSK	1	25	21.97	22.06	22.03			
10	QPSK	1	49	22.80	21.93	21.99			
10	QPSK	25	0	21.11	20.99	21.20			
10	QPSK	25	12	21.18	21.18	21.21			
10	QPSK	25	25	21.08	21.09	21.23			
10	QPSK	50	0	21.14	21.07	21.22			
10	16QAM	1	0	21.43	21.47	21.53	22.5	1	
10	16QAM	1	25	21.36	21.44	21.41			
10	16QAM	1	49	21.08	21.10	21.30			
10	16QAM	25	0	20.12	20.19	20.13			
10	16QAM	25	12	20.11	20.09	20.22			
10	16QAM	25	25	20.06	20.00	20.14			
10	16QAM	50	0	20.10	20.12	20.13			
10	64QAM	1	0	20.28	20.35	20.29			
10	64QAM	1	25	20.16	20.20	20.26	21.5	2	
10	64QAM	1	49	19.99	20.12	20.28			
10	64QAM	25	0	19.17	19.13	19.25			
10	64QAM	25	12	19.13	19.10	19.22			
10	64QAM	25	25	19.06	19.11	19.10			
10	64QAM	50	0	19.05	19.07	19.21	20.5	3	
Channel				23795	23790	23825			
Frequency (MHz)				705.5	710	713.5			
5	QPSK	1	0	22.08	22.33	22.15	23.5	0	
5	QPSK	1	12	21.95	22.15	22.25			
5	QPSK	1	24	21.98	22.22	22.15			
5	QPSK	12	0	21.10	21.46	21.50			
5	QPSK	12	7	21.20	21.27	21.54	22.5	1	
5	QPSK	12	13	21.20	21.34	21.48			
5	QPSK	25	0	21.09	21.42	21.50			
5	16QAM	1	0	21.45	21.41	21.66			
5	16QAM	1	12	21.38	21.63	21.60	22.5	1	
5	16QAM	1	24	21.47	21.58	21.45			
5	16QAM	12	0	20.17	20.31	20.40			
5	16QAM	12	7	20.20	20.21	20.43	21.5	2	
5	16QAM	12	13	20.18	20.29	20.42			
5	16QAM	25	0	20.12	20.30	20.35			
5	64QAM	1	0	21.42	21.45	21.43			
5	64QAM	1	12	21.34	21.35	21.41	21.5	2	
5	64QAM	1	24	21.48	21.38	21.40			
5	64QAM	12	0	20.07	20.34	20.38			
5	64QAM	12	7	20.17	20.31	20.50			
5	64QAM	12	13	20.18	20.28	20.30	20.5	3	
5	64QAM	25	0	20.15	20.29	20.31			

Band 71									
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				13322	13322	13375			
Frequency (MHz)				675	683	688			
20	QPSK	1	0	22.26	22.35	22.12	23.5	0	
20	QPSK	1	49	22.07	22.07	21.94			
20	QPSK	1	99	21.96	21.96	21.86			
20	QPSK	50	0	21.25	21.26	21.21			
20	QPSK	50	24	21.22	21.17	21.14			
20	QPSK	50	50	21.24	21.06	21.10	22.5	1	
20	QPSK	100	0	21.25	21.26	21.19			
20	16QAM	1	0	21.54	21.44	21.48			
20	16QAM	1	49	21.45	21.38	21.40	22.5	1	
20	16QAM	1	99	21.21	21.35	21.22			
20	16QAM	50	0	20.30	20.21	20.23			
20	16QAM	50	24	20.29	20.13	20.13	21.5	2	
20	16QAM	50	50	20.13	20.06	20.14			
20	16QAM	100	0	20.21	20.12	20.16			
20	64QAM	1	0	20.45	20.34	20.27			
20	64QAM	1	49	20.44	20.25	20.30	21.5	2	
20	64QAM	1	99	20.56	20.17	20.06			
20	64QAM	50	0	19.30	19.30	19.18			
20	64QAM	50	24	19.29	19.19	19.13	20.5	3	
20	64QAM	50	50	19.10	19.19	19.03			
20	64QAM	100	0	19.29	19.20	19.16			
Channel				133197	133297	133397			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	22.34	22.20	22.17	23.5	0	
15	QPSK	1	37	22.10	22.08	21.96			
15	QPSK	1	74	21.95	21.95	21.92			
15	QPSK	36	0	21.24	21.01	21.13			
15	QPSK	36	20	21.29	21.18	21.14	22.5	1	
15	QPSK	36	39	21.21	21.11	21.16			
15	QPSK	75	0	21.27	21.09	21.15			
15	16QAM	1	0	21.56	21.48	21.48			
15	16QAM	1	37	21.49	21.46	21.34	22.5	1	
15	16QAM	1	74	21.23	21.17	21.28			
15	16QAM	36	0	20.27	20.26	20.11			
15	16QAM	36	20	20.26	20.15	20.20	21.5	2	
15	16QAM	36	39	20.21	20.07	20.12			
15	16QAM	75	0	20.25	20.19	20.11			
15	64QAM	1	0	20.43	20.42	20.27			
15	64QAM	1	37	20.31	20.27	20.24	21.5	2	
15	64QAM	1	74	20.14	20.19	20.26			
15	64QAM	36	0	19.32	19.20	19.23			
15	64QAM	36	20	19.28	19.17	19.20	20.5	3	
15	64QAM	36	39	19.21	19.18	19.08			
15	64QAM	75	0	19.20	19.14	19.19			
Channel				133172	133272	133422			
Frequency (MHz)				668	673	693			
10	QPSK	1	0	22.22	22.12	22.06	23.5	0	
10	QPSK	1	25	22.08	22.00	22.06			
10	QPSK	1	49	22.07	21.97	21.94			
10	QPSK	25	0	21.33	21.20	21.07			
10	QPSK	25	12	21.26	21.24	21.13	22.5	1	
10	QPSK	25	25	21.16	21.27	21.07			
10	QPSK	50	0	21.24	21.29	21.15			
10	16QAM	1	0	21.59	21.49	21.48			
10	16QAM	1	25	21.66	21.40	21.49	22.5	1	
10	16QAM	1	49	21.46	21.38	21.20			
10	16QAM	25	0	20.33	20.25	20.10			
10	16QAM	25	12	20.18	20.31	20.19	21.5	2	
10	16QAM	25	25	20.14	20.29	20.10			
10	16QAM	50	0	20.16	20.30	20.14			
10	64QAM	1	0	20.44	20.25	20.27			
10	64QAM	1	25	20.29	20.41	20.26	21.5	2	
10	64QAM	1	49	20.39	20.38	20.15			
10	64QAM	25	0	19.38	19.22	19.13			
10	64QAM	25	12	19.38	19.31	19.23	20.5	3	
10	64QAM	25	25	19.14	19.19	19.10			
10	64QAM	50	0	19.29	19.29	19.14			
Channel				133147	133247	133447			
Frequency (MHz)				665.5	676.5	696.5			
5	QPSK	1	0	22.30	22.18	22.11	23.5	0	
5	QPSK	1	12	22.25	22.16	22.20			
5	QPSK	1	24	22.13	22.14	21.97			
5	QPSK	12	0	21.40	21.27	21.09			
5	QPSK	12	7	21.29	21.27	21.09	22.5	1	
5	QPSK	12	13	21.16	21.18	21.07			
5	QPSK	25	0	21.29	21.22	21.05			
5	16QAM	1	0	21.68	21.48	21.39			
5	16QAM	1	12	21.52	21.44	21.43	22.5	1	
5	16QAM	1	24	21.46	21.34	21.25			
5	16QAM	12	0	20.40	20.23	20.14			
5	16QAM	12	7	20.28	20.29	20.16	21.5	2	
5	16QAM	12	13	20.19	20.23	20.01			
5	16QAM	25	0	20.27	20.22	20.06			
5	64QAM	1	0	20.56	20.41	20.30			
5	64QAM	1	12	20.50	20.34	20.26	21.5	2	
5	64QAM	1	24	20.40	20.29	20.19			
5	64QAM	12	0	19.44	19.37	19.18			
5	64QAM	12	7	19.34	19.35	19.17	20.5	3	
5	64QAM	12	13	19.31	19.26	19.10			
5									



Full Power Mode for ANT6

GSM1900 TX Channel	Burst Average Power (dBm)			Time-up Limit (dBm)	Frame Average Power (dBm)			Time-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.17	28.32	28.18	29.50	19.17	19.32	19.18	20.50
GPRS 1 Tx slot	28.15	28.31	28.17	29.50	19.15	19.31	19.17	20.50
GPRS 2 Tx slots	28.72	28.71	28.23	27.50	20.72	20.71	20.23	21.50
GPRS 3 Tx slots	23.82	24.21	23.91	25.50	19.58	19.95	19.65	21.24
GPRS 4 Tx slots	22.06	22.28	21.90	23.50	19.08	19.38	18.90	20.50
EDGE 1 Tx slot	23.74	24.14	23.81	25.50	14.74	15.14	14.81	16.50
EDGE 2 Tx slots	22.84	23.12	22.95	24.50	16.84	17.12	16.95	18.50
EDGE 3 Tx slots	21.22	21.39	21.13	22.50	16.98	17.13	16.87	18.24
EDGE 4 Tx slots	19.27	19.25	18.96	20.50	16.27	16.25	15.96	17.50

Band TX Channel	WCDMA I			Time-up Limit (dBm)	WCDMA IV			Time-up Limit (dBm)
	9682	9690	9638		1312	1413	1513	
Rx Channel	9682	9880	9638		1537	1638	1738	
Frequency (MHz)	1852.4	1850	1837.2	24.00	1712.4	1722.5	1752.3	24.00
3GPP Rel 99 AMR 12.2Kbps	22.70	22.80	22.71	24.00	23.18	22.89	23.01	24.00
3GPP Rel 99 RMC 12.2Kbps	22.72	22.94	22.74	24.00	23.25	22.92	23.02	24.00
3GPP Rel 6 HSDPA Subtest-1	21.99	22.05	22.09	23.00	22.16	22.16	22.18	23.00
3GPP Rel 6 HSDPA Subtest-2	22.03	22.03	22.09	23.00	22.21	22.11	22.16	23.00
3GPP Rel 6 HSDPA Subtest-3	21.51	21.55	21.59	22.50	21.86	21.60	21.67	22.50
3GPP Rel 6 HSDPA Subtest-4	21.48	21.52	21.56	22.50	21.67	21.61	21.66	22.50
3GPP Rel 6 DC-HSDPA Subtest-1	21.81	21.92	22.02	23.00	21.98	22.03	22.11	23.00
3GPP Rel 6 DC-HSDPA Subtest-2	21.85	21.90	22.02	23.00	22.03	21.98	22.09	23.00
3GPP Rel 6 DC-HSDPA Subtest-3	21.33	21.42	21.52	22.50	21.48	21.47	21.60	22.50
3GPP Rel 6 DC-HSDPA Subtest-4	21.30	21.39	21.49	22.50	21.49	21.48	21.59	22.50
3GPP Rel 6 HSUPA Subtest-1	21.94	22.03	22.12	23.00	22.19	22.14	22.16	23.00
3GPP Rel 6 HSUPA Subtest-2	19.71	19.80	19.94	21.00	19.93	19.87	19.95	21.00
3GPP Rel 6 HSUPA Subtest-3	20.74	20.84	20.94	22.00	20.95	20.89	20.97	22.00
3GPP Rel 6 HSUPA Subtest-4	19.72	19.79	19.91	21.00	19.94	19.88	19.98	21.00
3GPP Rel 6 HSUPA Subtest-5	21.70	21.80	21.90	23.00	21.90	21.90	22.00	23.00



Band 2 (1900MHz Band)									
Part 2M (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (dBm)	Power Mid Ch. (dBm)	Power High Ch. (dBm)	Turn-up (dB)	MPR (dB)	
Channel	Channel	Channel	Channel	1900	1950	1950			
20	QPSK	1	0	21.90	21.70	21.81			
20	QPSK	1	6	21.90	21.77	21.87			23.5
20	QPSK	1	12	21.70	21.77	21.77			
20	QPSK	1	18	21.70	21.76	21.77			
20	QPSK	50	0	20.83	20.59	20.77			
20	QPSK	50	6	20.83	20.58	20.78			22.5
20	QPSK	50	12	20.97	20.98	20.97			
20	QPSK	50	18	20.93	20.92	20.86			
20	HQAM	1	0	21.74	21.76	21.70			
20	HQAM	1	6	21.74	21.76	21.70			22.5
20	HQAM	1	12	21.03	21.05	21.06			
20	HQAM	50	0	19.84	19.82	19.89			
20	HQAM	50	6	19.84	19.81	19.84			21.5
20	HQAM	50	12	19.88	19.91	19.94			
20	HQAM	50	18	19.96	19.93	19.82			
20	HQAM	1	0	20.92	20.96	20.90			
20	HQAM	1	6	20.98	20.93	20.94			21.5
20	HQAM	1	12	20.81	20.90	21.00			
20	HQAM	50	0	19.87	19.82	19.88			
20	HQAM	50	6	19.88	19.89	19.92			20.5
20	HQAM	50	12	19.98	19.99	19.92			
20	HQAM	50	18	19.80	19.98	19.97			
20	HQAM	100	0	19.80	19.98	19.97			
20	HQAM	100	6	19.80	19.98	19.97			
20	HQAM	100	12	19.80	19.98	19.97			
20	HQAM	100	18	19.80	19.98	19.97			
20	HQAM	100	24	19.80	19.98	19.97			
20	HQAM	100	30	19.80	19.98	19.97			
20	HQAM	100	36	19.80	19.98	19.97			
20	HQAM	100	42	19.80	19.98	19.97			
20	HQAM	100	48	19.80	19.98	19.97			
20	HQAM	100	54	19.80	19.98	19.97			
20	HQAM	100	60	19.80	19.98	19.97			
20	HQAM	100	66	19.80	19.98	19.97			
20	HQAM	100	72	19.80	19.98	19.97			
20	HQAM	100	78	19.80	19.98	19.97			
20	HQAM	100	84	19.80	19.98	19.97			
20	HQAM	100	90	19.80	19.98	19.97			
20	HQAM	100	96	19.80	19.98	19.97			
20	HQAM	100	102	19.80	19.98	19.97			
20	HQAM	100	108	19.80	19.98	19.97			
20	HQAM	100	114	19.80	19.98	19.97			
20	HQAM	100	120	19.80	19.98	19.97			
20	HQAM	100	126	19.80	19.98	19.97			
20	HQAM	100	132	19.80	19.98	19.97			
20	HQAM	100	138	19.80	19.98	19.97			
20	HQAM	100	144	19.80	19.98	19.97			
20	HQAM	100	150	19.80	19.98	19.97			
20	HQAM	100	156	19.80	19.98	19.97			
20	HQAM	100	162	19.80	19.98	19.97			
20	HQAM	100	168	19.80	19.98	19.97			
20	HQAM	100	174	19.80	19.98	19.97			
20	HQAM	100	180	19.80	19.98	19.97			
20	HQAM	100	186	19.80	19.98	19.97			
20	HQAM	100	192	19.80	19.98	19.97			
20	HQAM	100	198	19.80	19.98	19.97			
20	HQAM	100	204	19.80	19.98	19.97			
20	HQAM	100	210	19.80	19.98	19.97			
20	HQAM	100	216	19.80	19.98	19.97			
20	HQAM	100	222	19.80	19.98	19.97			
20	HQAM	100	228	19.80	19.98	19.97			
20	HQAM	100	234	19.80	19.98	19.97			
20	HQAM	100	240	19.80	19.98	19.97			
20	HQAM	100	246	19.80	19.98	19.97			
20	HQAM	100	252	19.80	19.98	19.97			
20	HQAM	100	258	19.80	19.98	19.97			
20	HQAM	100	264	19.80	19.98	19.97			
20	HQAM	100	270	19.80	19.98	19.97			
20	HQAM	100	276	19.80	19.98	19.97			
20	HQAM	100	282	19.80	19.98	19.97			
20	HQAM	100	288	19.80	19.98	19.97			
20	HQAM	100	294	19.80	19.98	19.97			
20	HQAM	100	300	19.80	19.98	19.97			
20	HQAM	100	306	19.80	19.98	19.97			
20	HQAM	100	312	19.80	19.98	19.97			
20	HQAM	100	318	19.80	19.98	19.97			
20	HQAM	100	324	19.80	19.98	19.97			
20	HQAM	100	330	19.80	19.98	19.97			
20	HQAM	100	336	19.80	19.98	19.97			
20	HQAM	100	342	19.80	19.98	19.97			
20	HQAM	100	348	19.80	19.98	19.97			
20	HQAM	100	354	19.80	19.98	19.97			
20	HQAM	100	360	19.80	19.98	19.97			
20	HQAM	100	366	19.80	19.98	19.97			
20	HQAM	100	372	19.80	19.98	19.97			
20	HQAM	100	378	19.80	19.98	19.97			
20	HQAM	100	384	19.80	19.98	19.97			
20	HQAM	100	390	19.80	19.98	19.97			
20	HQAM	100	396	19.80	19.98	19.97			
20	HQAM	100	402	19.80	19.98	19.97			
20	HQAM	100	408	19.80	19.98	19.97			
20	HQAM	100	414	19.80	19.98	19.97			
20	HQAM	100	420	19.80	19.98	19.97			
20	HQAM	100	426	19.80	19.98	19.97			
20	HQAM	100	432	19.80	19.98	19.97			
20	HQAM	100	438	19.80	19.98	19.97			
20	HQAM	100	444	19.80	19.98	19.97			
20	HQAM	100	450	19.80	19.98	19.97			
20	HQAM	100	456	19.80	19.98	19.97			
20	HQAM	100	462	19.80	19.98	19.97			
20	HQAM	100	468	19.80	19.98	19.97			
20	HQAM	100	474	19.80	19.98	19.97			
20	HQAM	100	480	19.80	19.98	19.97			
20	HQAM	100	486	19.80	19.98	19.97			
20	HQAM	100	492	19.80	19.98	19.97			
20	HQAM	100	498	19.80	19.98	19.97			
20	HQAM	100	504	19.80	19.98	19.97			
20	HQAM	100	510	19.80	19.98	19.97			
20	HQAM	100	516	19.80	19.98	19.97			
20	HQAM	100	522	19.80	19.98	19.97			
20	HQAM	100	528	19.80	19.98	19.97			
20	HQAM	100	534	19.80	19.98	19.97			
20	HQAM	100	540	19.80	19.98	19.97			
20	HQAM	100	546	19.80	19.98	19.97			
20	HQAM	100	552	19.80	19.98	19.97			
20	HQAM	100	558	19.80	19.98	19.97			
20	HQAM	100	564	19.80	19.98	19.97			
20	HQAM	100	570	19.80	19.98	19.97			
20	HQAM	100	576	19.80	19.98	19.97			
20	HQAM	100	582	19.80	19.98	19.97			
20	HQAM	100	588	19.80	19.98	19.97			
20	HQAM	100	594	19.80	19.98	19.97			
20	HQAM	100	600	19.80	19.98	19.97			
20	HQAM	100	606	19.80	19.98	19.97			
20	HQAM	100	612	19.80	19.98	19.97			
20	HQAM	100	618	19.80	19.98	19.97			
20	HQAM	100	624	19.80	19.98	19.97			
20	HQAM	100	630	19.80	19.98	19.97			
20	HQAM	100	636	19.80	19.98	19.97			
20	HQAM	100	642	19.80	19.98	19.97			
20	HQAM	100	648	19.80	19.98	19.97			
20	HQAM	100	654	19.80	19.98	19.97			
20	HQAM	100	660	19.80	19.98	19.97			
20	HQAM	100	666	19.80	19.98	19.97			
20	HQAM	100	672	19.80	19.98	19.97			
20	HQAM	100	678	19.80	19.98	19.97			
20	HQAM	100	684	19.80	19.98	19.97			
20	HQAM	100	690	19.80	19.98	19.97			
20	HQAM	100	696	19.80	19.98	19.97			
20	HQAM	100	702	19.80	19.98	19.97			
20	HQAM	100	708	19.80	19.98	19.97			
20	HQAM	100	714	19.80	19.98	19.97			
20	HQAM	100	720	19.80	19.98	19.97			
20	HQAM	100	726	19.80	19.98	19.97			
20	HQAM	100	732	19.80	19.98	19.97			
20	HQAM	100	738	19.80	19.98	19.97			
20	HQAM	100	744	19.80	19.98	19.97			
20	HQAM	100	750	19.80	19.98	19.97			
20	HQAM	100	756	19.80	19.98	19.97			
20	HQAM	100	762	19.80	19.98	19.97			
20	HQAM	100	768	19.80	19.98	19.97			
20	HQAM	100	774	19.80	19.98	19.97			
20	HQAM	100	780	19.80	19.98	19.97			
20	HQAM	100	786	19.80	19.98	19.97			
20	HQAM	100	792	19.80	19.98	19.97			
20	HQAM	100	798	19.80	19.98	19.97			
20	HQAM	100	804	19.80	19.98	19.97			
20	HQAM	100							



Band 3(only on channel required)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				37850	38000	38150			
Frequency (MHz)									
20	QPSK	1	0	22.02	22.11	22.15	23.5	0	
20	QPSK	1	49	22.02	22.05	22.00			
20	QPSK	1	99	22.00	21.95	21.88			
20	QPSK	50	0	21.14	21.16	21.14	22.5	1	
20	QPSK	50	24	21.17	21.15	21.15			
20	QPSK	50	50	21.12	21.14	21.11			
20	QPSK	100	0	21.17	21.15	21.16			
20	16QAM	1	0	21.21	21.27	21.21	22.5	1	
20	16QAM	1	49	21.10	21.15	21.13			
20	16QAM	1	99	21.07	21.04	21.02			
20	16QAM	50	0	20.17	20.23	20.20	21.5	2	
20	16QAM	50	24	20.24	20.17	20.21			
20	16QAM	50	50	20.17	20.20	20.14			
20	16QAM	100	0	20.20	20.15	20.18			
20	64QAM	1	0	19.75	19.81	19.81	21.5	2	
20	64QAM	1	49	19.71	19.74	19.78			
20	64QAM	1	99	19.67	19.69	19.62			
20	64QAM	50	0	19.17	19.23	19.20	20.5	3	
20	64QAM	50	24	19.24	19.16	19.20			
20	64QAM	50	50	19.16	19.16	19.11			
20	64QAM	100	0	19.19	19.16	19.20			
Channel				37850	38000	38150			
Frequency (MHz)									
15	QPSK	1	0	22.04	22.10	22.05	23.5	0	
15	QPSK	1	37	21.97	21.99	21.99			
15	QPSK	1	74	21.93	21.96	21.91			
15	QPSK	36	0	21.11	21.16	21.10	22.5	1	
15	QPSK	36	20	21.12	21.09	21.04			
15	QPSK	36	39	21.11	21.12	21.08			
15	16QAM	1	0	21.18	21.23	21.17	22.5	1	
15	16QAM	1	37	21.00	21.05	21.03			
15	16QAM	1	74	21.11	21.16	21.11			
15	16QAM	36	0	20.16	20.15	20.09	21.5	2	
15	16QAM	36	20	20.12	20.08	20.01			
15	16QAM	36	39	20.07	20.10	20.04			
15	16QAM	75	0	20.19	20.15	20.11	21.5	2	
15	16QAM	75	1	19.67	19.77	19.73			
15	64QAM	1	37	19.71	19.77	19.75	21.5	2	
15	64QAM	1	74	19.68	19.73	19.65			
15	64QAM	36	0	19.13	19.18	19.16	20.5	3	
15	64QAM	36	20	19.16	19.11	19.08			
15	64QAM	36	39	19.11	19.16	19.09			
15	64QAM	75	0	19.21	19.13	19.19			
Channel				37850	38000	38200			
Frequency (MHz)									
10	QPSK	1	0	22.09	22.11	22.09	23.5	0	
10	QPSK	1	25	21.99	22.01	22.00			
10	QPSK	1	49	21.93	21.92	21.89			
10	QPSK	12	0	21.10	21.14	21.08	22.5	1	
10	QPSK	12	7	21.14	21.12	21.02			
10	QPSK	25	0	21.13	21.11	21.09			
10	QPSK	25	25	21.13	21.16	21.13			
10	QPSK	50	0	21.14	21.10	21.03	21.5	2	
10	16QAM	1	0	21.23	21.26	21.21	22.5	1	
10	16QAM	1	49	21.13	21.10	21.02			
10	16QAM	25	0	20.11	20.10	20.08	21.5	2	
10	16QAM	25	12	20.11	20.09	20.04			
10	16QAM	25	25	20.07	20.14	20.04			
10	16QAM	50	0	20.19	20.20	20.14	21.5	2	
10	16QAM	50	1	19.83	19.96	19.88			
10	16QAM	1	0	19.83	19.79	19.86			
10	16QAM	1	49	19.75	19.76	19.69	20.5	3	
10	64QAM	25	0	19.24	19.21	19.19			
10	64QAM	25	12	19.23	19.22	19.04			
10	64QAM	25	25	19.20	19.28	19.15			
10	64QAM	50	0	19.19	19.16	19.03			
Channel				37775	38000	38200			
Frequency (MHz)									
5	QPSK	1	0	22.06	22.05	22.06	23.5	0	
5	QPSK	1	12	21.96	22.05	21.94			
5	QPSK	1	24	22.01	21.99	21.98			
5	QPSK	12	0	21.14	21.12	21.12	22.5	1	
5	QPSK	12	7	21.16	21.16	21.12			
5	QPSK	25	0	21.15	21.10	21.12			
5	16QAM	1	0	21.17	21.20	21.21	22.5	1	
5	16QAM	1	12	21.23	21.28	21.18			
5	16QAM	1	24	21.22	21.18	21.18			
5	16QAM	12	0	20.12	20.11	20.08	21.5	2	
5	16QAM	12	7	20.13	20.12	20.14			
5	16QAM	12	13	20.09	20.12	20.02			
5	16QAM	25	0	20.12	20.14	20.11	21.5	2	
5	16QAM	25	1	19.80	19.76	19.74			
5	64QAM	1	12	19.78	19.83	19.76	21.5	2	
5	64QAM	1	24	19.78	19.82	19.74			
5	64QAM	12	0	19.16	19.21	19.17	20.5	3	
5	64QAM	12	7	19.23	19.16	19.23			
5	64QAM	12	13	19.18	19.22	19.16			
5	64QAM	25	0	19.24	19.17	19.16			

Band 41 (2.6G Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)									
20	QPSK	1	0	22.97	22.95	22.95	23.5	0	
20	QPSK	1	49	22.25	22.27	22.49	22.38	22.33	
20	QPSK	1	99	22.28	22.25	22.45	22.45	22.29	
20	QPSK	50	0	21.06	21.16	21.28	21.25	21.24	22.5
20	QPSK	50	24	20.90	21.02	21.21	21.21	21.25	
20	QPSK	50	50	20.91	21.07	21.23	21.20	21.18	
20	QPSK	100	0	20.96	21.07	21.20	21.22	21.26	
20	16QAM	1	0	21.00	21.03	21.40	21.41	21.21	22.5
20	16QAM	1	49	20.90	20.90	21.13	21.39	21.20	
20	16QAM	1	99	20.93	20.90	21.09	21.24	21.24	
20	16QAM	50	0	19.98	20.01	20.26	20.22	20.31	21.5
20	16QAM	50	24	20.05	20.11	20.25	20.27	20.30	
20	16QAM	50	50	19.97	20.07	20.20	20.25	20.28	
20	16QAM	100	0	20.02	20.08	20.21	20.27	20.28	
20	64QAM	1	0	19.68	19.63	19.89	19.83	19.97	21.5
20	64QAM	1	49	19.55	19.51	19.75	19.84	19.82	
20	64QAM	1	99	19.60	19.53	19.73	19.75	19.88	
20	64QAM	50	0	18.96	19.01	19.23	19.20	19.36	20.5
20	64QAM	50	24	19.04	19.08	19.28	19.28	19.30	
20	64QAM	50	50	18.98	19.05	19.19	19.25	19.30	
20	64QAM	100	0	19.01	19.07	19.24	19.24	19.24	
Channel				39725	40113	40553	41093	41533	
Frequency (MHz)									
15	QPSK	1	0	21.91	21.87	22.10	22.17	22.16	23.5
15	QPSK	1	37	21.83	21.86	22.08	22.12	22.24	
15	QPSK	1	74	21.74	21.96	22.04	22.23	22.17	
15	QPSK	36	0	20.90	20.95	21.15	21.16	21.38	22.5
15	QPSK	36	20	20.97	20.99	21.17	21.24	21.31	
15	QPSK	36	39	20.93	21.03	21.14	21.23	21.30	
15	QPSK	75	0	21.01	21.05	21.21	21.21	21.21	21.5
15	16QAM	1	0	21.01	21.05	21.28	21.15	20.99	22.5
15	16QAM	1	37	20.82	20.88	20.96	21.04	21.15	
15	16QAM	1	74	20.98	21.11	21.18	21.15	21.24	
15	16QAM	36	0	20.00	20.00	20.18	20.23	20.27	21.5
15	16QAM	36	39	20.06	19.98	20.04	20.18	20.33	
15	16QAM	75	0	20.05	20.07	20.23	20.27	20.35	
15	16QAM	75	1	19.82	19.86	19.23	19.16	19.88	21.5
15	64QAM	1	37	19.63	19.58	19.69	19.80	20.05	20.5
15	64QAM	1	74	19.67	19.68	19.77	19.67	20.06	
15	64QAM	36	0	18.96	18.98	19.23	19.21	19.39	20.5
15	64QAM	36	20	19.02	19.06	19.21	19.21	19.28	
15	64QAM	36	39	18.95	19.04	19.13	19.24	19.37	
15	64QAM	75	0						



ENDC for ANT2

Band 2 (1900MHz Band) - for Body										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.				
Channel				18700	18900	19100				
Frequency (MHz)				1860	1890	1900				
20	QPSK	1	0	20.87	21.29	20.91	22	0		
20	QPSK	1	49	20.81	20.79	20.97				
20	QPSK	1	99	20.87	20.80	20.83				
20	QPSK	50	0	20.79	20.89	20.83	22	0		
20	QPSK	50	24	20.96	20.98	20.75				
20	QPSK	50	50	20.86	20.87	20.96				
20	QPSK	100	0	21.02	21.05	20.90	22	0		
20	16QAM	1	0	21.23	21.07	21.17				
20	16QAM	1	49	21.24	21.04	21.03				
20	16QAM	1	99	21.28	20.86	20.96	22	0		
20	16QAM	50	0	20.93	20.98	20.71				
20	16QAM	50	24	21.06	20.87	20.86				
20	16QAM	50	50	20.92	20.82	21.03	22	0		
20	16QAM	100	0	20.86	20.93	20.87				
20	64QAM	1	0	20.34	20.44	20.56				
20	64QAM	1	49	20.66	20.56	20.55	22	0		
20	64QAM	1	99	20.78	20.67	20.83				
20	64QAM	50	0	20.86	20.93	20.90				
20	64QAM	50	24	20.83	20.95	20.81	21	1		
20	64QAM	50	50	20.96	20.86	20.83				
20	64QAM	100	0	20.97	20.99	20.84				
Channel				1887.5	1890	1912.5				
Frequency (MHz)				1887.5	1880	1902.5				
15	QPSK	1	0	20.86	20.94	20.83	22	0		
15	QPSK	1	37	20.76	20.86	20.87				
15	QPSK	1	74	20.87	20.84	20.91				
15	QPSK	36	0	20.89	20.87	20.92	22	0		
15	QPSK	36	20	20.97	20.98	20.97				
15	QPSK	36	39	20.90	20.97	21.01				
15	QPSK	75	0	20.91	20.93	20.94	22	0		
15	16QAM	1	0	21.08	21.11	21.23				
15	16QAM	1	37	21.22	20.76	21.05				
15	16QAM	1	74	21.13	21.02	21.23	22	0		
15	16QAM	36	0	20.91	20.95	20.92				
15	16QAM	36	20	20.88	20.93	20.81				
15	16QAM	36	39	20.92	20.86	20.95	22	0		
15	16QAM	75	0	21.03	20.94	20.87				
15	64QAM	1	0	20.90	20.98	21.08				
15	64QAM	1	37	20.83	21.11	21.00	22	0		
15	64QAM	1	74	21.00	21.21	20.86				
15	64QAM	36	0	20.91	20.96	20.75				
15	64QAM	36	20	20.89	20.88	20.93	21	1		
15	64QAM	36	39	20.91	20.93	20.98				
15	64QAM	75	0	21.00	21.00	20.97				
Channel				18650	18900	19150				
Frequency (MHz)				18650	1860	19050				
10	QPSK	1	0	20.97	20.83	20.83	22	0		
10	QPSK	1	25	20.98	20.77	21.11				
10	QPSK	1	49	20.80	20.72	20.68				
10	QPSK	25	0	20.95	20.82	20.82	22	0		
10	QPSK	25	12	20.97	20.91	20.90				
10	QPSK	25	25	20.92	20.92	21.00				
10	QPSK	50	0	20.97	20.90	20.89	22	0		
10	16QAM	1	0	20.84	21.17	21.19				
10	16QAM	1	25	20.89	20.89	21.23				
10	16QAM	1	49	20.81	21.24	20.94	22	0		
10	16QAM	25	0	20.95	20.94	20.73				
10	16QAM	25	12	20.96	21.05	21.00				
10	16QAM	25	25	20.83	20.94	20.97	22	0		
10	16QAM	50	0	20.97	20.90	20.87				
10	64QAM	1	0	21.15	20.99	20.99				
10	64QAM	1	25	21.22	20.89	21.13	22	0		
10	64QAM	1	49	20.98	20.97	21.11				
10	64QAM	25	0	20.88	20.96	20.76				
10	64QAM	25	12	20.98	20.90	21.00	21	1		
10	64QAM	25	25	20.96	21.00	20.98				
10	64QAM	50	0	20.92	20.94	20.88				
Channel				18625	18900	19175				
Frequency (MHz)				18625	1880	1907.5				
5	QPSK	1	0	20.67	20.51	20.62	22	0		
5	QPSK	1	12	20.61	20.67	20.59				
5	QPSK	1	24	20.69	20.54	20.68				
5	QPSK	12	0	20.77	20.62	20.74	22	0		
5	QPSK	12	7	20.83	20.75	20.76				
5	QPSK	12	13	20.80	20.75	20.73				
5	QPSK	25	0	20.74	20.71	20.74	22	0		
5	16QAM	1	0	20.83	20.79	21.21				
5	16QAM	1	12	20.87	21.16	21.28				
5	16QAM	1	24	20.85	20.92	21.16	22	0		
5	16QAM	12	0	20.69	20.71	20.77				
5	16QAM	12	7	20.79	20.85	20.83				
5	16QAM	12	13	20.74	20.77	20.77	22	0		
5	16QAM	25	0	20.86	20.91	20.75				
5	64QAM	1	0	20.89	20.98	21.17				
5	64QAM	1	12	21.15	20.85	20.86	22	0		
5	64QAM	1	24	20.95	20.98	20.93				
5	64QAM	12	0	20.62	20.85	20.78				
5	64QAM	12	7	20.73	20.80	20.80	21	1		
5	64QAM	12	13	20.74	20.79	20.75				
5	64QAM	25	0	20.76	20.82	20.76				
Channel				18515	18900	19185				
Frequency (MHz)				18515	1890	1909.5				
3	QPSK	1	0	20.59	20.53	20.54	22	0		
3	QPSK	1	8	20.57	20.71	20.77				
3	QPSK	1	14	20.51	20.69	20.67				
3	QPSK	8	0	20.76	20.67	20.69	22	0		
3	QPSK	8	4	20.82	20.71	20.78				
3	QPSK	8	7	20.69	20.74	20.72				
3	QPSK	15	0	20.78	20.75	20.69	22	0		
3	16QAM	1	0	20.84	20.73	20.82				
3	16QAM	1	8	20.98	20.97	21.21				
3	16QAM	1	14	20.85	20.77	21.17	22	0		
3	16QAM	8	0	20.76	20.76	20.86				
3	16QAM	8	4	20.75	20.89	20.77				
3	16QAM	8	7	20.74	20.80	20.70	22	0		
3	16QAM	15	0	20.79	20.69	20.76				
3	64QAM	1	0	21.10	21.11	20.98				
3	64QAM	1	8	20.99	21.07	20.98	22	0		
3	64QAM	1	14	20.64	20.97	21.14				
3	64QAM	8	0	20.68	20.87	20.88				
3	64QAM	8	4	20.71	20.82	20.72	21	1		
3	64QAM	8	7	20.80	20.88	20.71				
3	64QAM	15	0	20.73	20.74	20.67				
Channel				18907	18900	19193				
Frequency (MHz)				18907	1890	1909.3				
1.4	QPSK	1	0	20.79	20.83	20.77	22	0		
1.4	QPSK	1	3	20.84	20.82	20.68				
1.4	QPSK	1	5	20.75	20.70	20.81				
1.4	QPSK	3	0	20.73	20.73	20.75	22	0		
1.4	QPSK	3	1	20.91	20.78	20.84				
1.4	QPSK	3	3	20.79	20.82	20.72				
1.4	QPSK	6	0	20.84	20.83	20.77	22	0		
1.4	16QAM	1	0	20.81	21.05	21.10				
1.4	16QAM	1	3	21.09	20.98	20.92				
1.4	16QAM	1	5	20.90	21.00	21.25	22	0		
1.4	16QAM	3	0	20.87	20.82	20.76				
1.4	16QAM	3	1	20.97	20.87	20.88				
1.4	16QAM	3	3	20.89	20.75	20.95	22	0		
1.4	16QAM	6	0	20.82	20.81	20.98				
1.4	64QAM	1	0	20.98	20.99	20.97				
1.4	64QAM	1	3	20.92	20.74	20.95	22	0		
1.4	64QAM	1	5	20.97	20.76	20.82				
1.4	64QAM	3	0	20.97	20.99	20.67				
1.4	64QAM	3	1	20.87	20.96	21.08	22	0		
1.4	64QAM	3	3	21.07	20.83	20.88				
1.4	64QAM	6	0	20.88	20.84	20.85				

Band 7 (2600MHz Band) - for Body										
Part 27										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Midle Ch. / Freq.	High Ch. / Freq.				
Channel				20850	21100	21350				
Frequency (MHz)				20750	20900	21100				
20	QPSK	1	0	21.23	21.59	21.24	22	0		
20	QPSK	1	49	21.16	21.27	21.13				
20	QPSK	1	99	21.27	21.26	21.25				
20	QPSK	50	0	21.24	21.35	21.08	22	0		
20	QPSK	50	24	21.34	21.22	21.21				
20	QPSK	50	50	21.28	21.32	21.24				
20	QPSK	100	0	21.20	21.37	21.23	22	0		
20	16QAM	1	0	21.43	21.40	21.32				
20	16QAM	1	49	21.30	21.45	21.32				
20	16QAM	1	99	21.34	21.32	21.23	22	0		
20	16QAM	50	0	21.08	21.08	21.19				
20	16QAM	50	24	21.31	21.23	21.21				
20	16QAM	50	50	21.38	21.33	21.30	22	0		
20	16QAM	100	0	21.29	21.13	21.25				
20	64QAM	1	0	21.40	21.27	21.41				
20	64QAM	1	49	21.25	21.30	21.34	22	0		
20	64QAM	1	99	21.21	21.30	21.35				
20	64QAM	50	0	20.85	20.74	20.82				
20	64QAM	50	24	20.92	20.89	20.72	21	0		
20	64QAM	50	50	20.91	20.94	20.79				
20	64QAM	100	0	20.96	20.82	20.83				
Channel				20825	21100					



ENDC for ANT6

Band 7 (2600MHz Band) - for Body									
Part 27									
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				20650	20650	20650			
Frequency (MHz)									
20	QPSK	1	0	21.30	21.30	21.30	22	0	
20	QPSK	1	49	21.38	21.30	21.26			
20	QPSK	1	99	21.31	21.33	21.30			
20	QPSK	50	0	21.40	21.53	21.35	22	0	
20	QPSK	50	24	21.20	21.38	21.50			
20	QPSK	50	50	21.51	21.45	21.40			
20	QPSK	100	0	21.27	21.39	21.30	22	0	
20	16QAM	1	0	21.42	21.50	21.51			
20	16QAM	1	49	21.30	21.53	21.30			
20	16QAM	1	99	21.55	21.50	21.54	21.5	0.5	
20	16QAM	50	0	20.83	20.81	20.83			
20	16QAM	50	24	21.07	20.91	20.82			
20	16QAM	50	50	21.06	21.02	20.96	21.5	0.5	
20	16QAM	100	0	20.97	20.78	20.87			
20	64QAM	1	0	21.43	21.49	21.20			
20	64QAM	1	49	21.40	21.30	21.30	21.5	0.5	
20	64QAM	1	99	21.30	21.50	21.23			
20	64QAM	50	0	20.36	20.33	20.45			
20	64QAM	50	24	20.44	20.42	20.40	20.5	1.5	
20	64QAM	50	50	20.38	20.50	20.33			
20	64QAM	100	0	20.49	20.40	20.37			
Channel				20625	21100	21375			
Frequency (MHz)									
15	QPSK	1	0	21.34	21.27	21.27	22	0	
15	QPSK	1	37	21.30	21.41	21.32			
15	QPSK	1	74	21.39	21.34	21.36			
15	QPSK	36	0	21.51	21.38	21.41	22	0	
15	QPSK	36	20	21.55	21.45	21.38			
15	QPSK	36	39	21.53	21.51	21.40			
15	QPSK	75	0	21.46	21.39	21.40	22	0	
15	16QAM	1	0	21.54	21.52	21.41			
15	16QAM	1	37	21.56	21.51	21.56			
15	16QAM	1	74	21.34	21.50	21.34	21.5	0.5	
15	16QAM	36	0	21.00	20.94	20.92			
15	16QAM	36	20	21.07	20.92	21.00			
15	16QAM	36	39	21.09	20.98	21.03	21.5	0.5	
15	16QAM	75	0	21.03	20.95	20.93			
15	64QAM	1	0	21.49	21.21	21.07			
15	64QAM	1	37	21.30	21.23	21.09	21.5	0.5	
15	64QAM	1	74	21.31	21.20	21.03			
15	64QAM	36	0	20.46	20.43	20.32			
15	64QAM	36	20	20.33	20.49	20.45	20.5	1.5	
15	64QAM	36	39	20.47	20.42	20.45			
15	64QAM	75	0	20.45	20.36	20.36			
Channel				20600	21100	21300			
Frequency (MHz)									
10	QPSK	1	0	21.13	21.29	21.33	22	0	
10	QPSK	1	25	21.34	21.33	21.15			
10	QPSK	1	49	21.31	21.39	21.40			
10	QPSK	25	0	21.44	21.31	21.35	22	0	
10	QPSK	25	12	21.54	21.39	21.44			
10	QPSK	25	25	21.42	21.49	21.46			
10	QPSK	50	0	21.55	21.46	21.33	22	0	
10	16QAM	1	0	21.49	21.49	21.49			
10	16QAM	1	25	21.31	21.48	21.55			
10	16QAM	1	49	21.40	21.34	21.34	21.5	0.5	
10	16QAM	25	0	20.99	20.90	21.03			
10	16QAM	25	12	21.06	20.94	20.87			
10	16QAM	25	25	20.87	21.02	20.98	21.5	0.5	
10	16QAM	50	0	20.98	20.96	20.77			
10	64QAM	1	0	21.23	21.41	21.23			
10	64QAM	1	25	21.00	21.20	21.02	21.5	0.5	
10	64QAM	1	49	21.32	21.27	21.31			
10	64QAM	25	0	20.48	20.40	20.42			
10	64QAM	25	12	20.44	20.46	20.42	20.5	1.5	
10	64QAM	25	25	20.49	20.37	20.35			
10	64QAM	50	0	20.32	20.41	20.44			
Channel				20775	21100	21425			
Frequency (MHz)									
5	QPSK	1	0	21.37	21.29	21.36	22	0	
5	QPSK	1	12	21.46	21.32	21.32			
5	QPSK	1	24	21.35	21.40	21.32			
5	QPSK	12	0	21.48	21.39	21.38	22	0	
5	QPSK	12	7	21.52	21.34	21.41			
5	QPSK	12	13	21.45	21.42	21.42			
5	QPSK	25	0	21.50	21.41	21.45	22	0	
5	16QAM	1	0	21.54	21.43	21.08			
5	16QAM	1	12	21.30	21.30	21.23			
5	16QAM	1	24	21.33	21.54	21.24	21.5	0.5	
5	16QAM	12	0	21.11	20.94	21.32			
5	16QAM	12	7	21.08	20.95	20.88			
5	16QAM	12	13	20.89	21.02	20.99	21.5	0.5	
5	16QAM	25	0	20.99	20.88	20.92			
5	64QAM	1	0	21.32	21.20	21.48			
5	64QAM	1	12	21.40	21.42	21.44	21.5	0.5	
5	64QAM	1	24	21.30	21.50	21.25			
5	64QAM	12	0	20.45	20.41	20.27			
5	64QAM	12	7	20.47	20.34	20.47	20.5	1.5	
5	64QAM	12	13	20.44	20.41	20.41			
5	64QAM	25	0	20.47	20.45	20.47			

Band 66 - for Body									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)									
20	QPSK	1	0	21.72	21.45	21.70	23	0	
20	QPSK	1	49	21.59	21.82	21.86			
20	QPSK	1	99	21.56	21.81	21.86			
20	QPSK	50	0	20.71	20.93	21.84	22.5	0.5	
20	QPSK	50	24	20.76	20.96	20.82			
20	QPSK	50	50	20.76	21.03	20.76			
20	QPSK	100	0	20.81	20.80	20.81	22.5	0.5	
20	16QAM	1	0	21.07	20.95	21.11			
20	16QAM	1	49	21.11	21.05	21.16			
20	16QAM	1	99	20.81	21.11	21.06	21.5	1.5	
20	16QAM	50	0	19.67	19.79	19.91			
20	16QAM	50	24	19.86	19.82	19.88			
20	16QAM	50	50	19.81	19.79	19.94	21.5	1.5	
20	16QAM	100	0	19.79	19.74	19.90			
20	64QAM	1	0	20.92	20.82	20.78			
20	64QAM	1	49	20.71	20.98	20.78	21.5	1.5	
20	64QAM	1	99	20.75	20.96	20.95			
20	64QAM	50	0	19.72	19.65	19.86			
20	64QAM	50	24	19.67	19.84	19.96	20.5	2.5	
20	64QAM	50	50	19.76	19.77	19.99			
20	64QAM	100	0	19.62	19.80	19.90			
Channel				132047	132322	132597			
Frequency (MHz)									
15	QPSK	1	0	21.64	21.67	21.82	23	0	
15	QPSK	1	37	21.61	21.65	21.87			
15	QPSK	1	74	21.63	21.69	21.79			
15	QPSK	36	0	21.75	21.65	21.81	22.5	0.5	
15	QPSK	36	20	20.84	20.80	20.83			
15	QPSK	36	39	20.75	20.79	20.96			
15	QPSK	75	0	20.69	20.78	20.95	22.5	0.5	
15	16QAM	1	0	20.95	20.93	21.20			
15	16QAM	1	37	20.92	20.97	21.08			
15	16QAM	1	74	21.05	21.05	21.11	21.5	1.5	
15	16QAM	36	0	19.69	19.77	19.88			
15	16QAM	36	20	19.81	19.82	20.00			
15	16QAM	36	39	19.76	19.70	19.85	21.5	1.5	
15	16QAM	75	0	19.78	19.80	19.96			
15	64QAM	1	0	20.86	20.79	20.86			
15	64QAM	1	37	20.85	20.85	21.03	21.5	1.5	
15	64QAM	1	74	20.84	20.84	20.97			
15	64QAM	36	0	19.70	19.73	19.89			
15	64QAM	36	20	19.78	19.80	19.98	20.5	2.5	
15	64QAM	36	39	19.61	19.79	19.85			
15	64QAM	75	0	19.67	19.76	19.85			
Channel				132022	132322	132592			
Frequency (MHz)									
10	QPSK	1	0	21.69	21.89	21.85	23	0	
10	QPSK	1	25	21.54	21.62	21.63			
10	QPSK	1	49	21.67	21.56	21.82			
10	QPSK	25	0	20.74	20.69	20.87	22.5	0.5	
10	QPSK	25	12	20.76	20.76	20.92			
10	QPSK	25	25	20.75	20.74	20.94			
10	QPSK	50	0	20.81	20.75	21.01	22.5	0.5	
10	16QAM	1	0	21.02	21.12	21.17			
10	16QAM	1	25	21.00	20.98	21.25			
10	16QAM	1	49	20.95	20.95	21.18	21.5	1.5	
10	16QAM	25	0	19.78	19.75	19.93			
10	16QAM	25	12	1					



Band 4 - Body

BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch / Freq.	Middle Ch / Freq.	High Ch / Freq.		
Channel				20050	20175	20300	23	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	21.74	21.85	21.68	22.5	0.5
20	QPSK	1	49	21.60	21.53	21.57		
20	QPSK	1	99	21.56	21.62	21.68		
20	QPSK	50	0	20.78	20.87	20.81	21.5	1.5
20	QPSK	50	24	20.86	20.80	20.78		
20	QPSK	50	50	20.67	20.65	20.70		
20	QPSK	100	0	20.75	20.77	20.76	21.5	1.5
20	16QAM	1	0	20.95	21.14	20.94		
20	16QAM	1	49	20.97	20.70	20.93		
20	16QAM	1	99	20.85	20.94	20.90	20.5	2.5
20	16QAM	50	0	19.79	19.76	19.80		
20	16QAM	50	24	19.84	19.77	19.80		
20	16QAM	50	50	19.74	19.67	19.77	21.5	1.5
20	16QAM	100	0	19.73	19.78	19.61		
20	64QAM	1	0	20.78	20.93	20.80		
20	64QAM	1	49	20.87	20.75	20.83	20.5	2.5
20	64QAM	1	99	20.84	20.60	20.69		
20	64QAM	50	0	19.70	19.80	19.86		
20	64QAM	50	24	19.83	19.84	19.68	20.5	2.5
20	64QAM	50	50	19.75	19.66	19.77		
20	64QAM	100	0	19.82	19.84	19.73		
Channel				20025	20175	20325	23	0
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	21.67	21.74	21.72	22.5	0.5
15	QPSK	1	37	21.60	21.60	21.70		
15	QPSK	1	74	21.58	21.64	21.76		
15	QPSK	36	0	20.68	20.74	20.82	21.5	1.5
15	QPSK	36	39	20.72	20.81	20.81		
15	QPSK	36	99	20.77	20.72	20.79		
15	QPSK	75	0	20.75	20.70	20.79	21.5	1.5
15	16QAM	1	0	20.95	21.09	21.09		
15	16QAM	1	37	20.78	20.98	21.04		
15	16QAM	1	74	20.84	20.92	21.08	20.5	2.5
15	16QAM	36	0	19.77	19.74	19.81		
15	16QAM	36	20	19.67	19.76	19.78		
15	16QAM	36	39	19.73	19.74	19.81	21.5	1.5
15	16QAM	75	0	19.75	19.81	19.82		
15	64QAM	1	0	20.87	20.94	20.91		
15	64QAM	1	37	20.75	20.85	20.72	21.5	1.5
15	64QAM	1	74	20.62	20.79	20.93		
15	64QAM	36	0	19.75	19.82	19.79		
15	64QAM	36	20	19.74	19.70	19.81	20.5	2.5
15	64QAM	36	39	19.75	19.85	19.76		
15	64QAM	75	0	19.76	19.70	19.76		
Channel				20000	20175	20350	23	0
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	21.73	21.62	21.74	22.5	0.5
10	QPSK	1	25	21.77	21.77	21.84		
10	QPSK	1	49	21.74	21.73	21.84		
10	QPSK	25	0	20.76	20.77	20.82	21.5	1.5
10	QPSK	25	12	20.80	20.82	20.91		
10	QPSK	25	25	20.81	20.89	20.91		
10	QPSK	50	0	20.83	20.81	20.92	21.5	1.5
10	16QAM	1	0	20.99	21.06	21.02		
10	16QAM	1	25	21.08	21.00	21.15		
10	16QAM	1	49	21.10	21.05	21.12	20.5	2.5
10	16QAM	25	0	19.84	19.78	19.91		
10	16QAM	25	12	19.90	19.86	19.94		
10	16QAM	25	25	19.83	19.88	19.95	21.5	1.5
10	16QAM	50	0	19.81	19.82	19.93		
10	64QAM	1	0	20.97	20.88	20.92		
10	64QAM	1	25	20.97	20.97	20.99	21.5	1.5
10	64QAM	1	49	20.91	20.86	21.02		
10	64QAM	25	0	19.77	19.76	19.84		
10	64QAM	25	12	19.83	19.75	19.95	20.5	2.5
10	64QAM	25	25	19.83	19.82	19.85		
10	64QAM	50	0	19.83	19.82	19.88		
Channel				19975	20175	20375	23	0
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	21.65	21.64	21.66	22.5	0.5
5	QPSK	1	12	21.64	21.61	21.77		
5	QPSK	1	24	21.63	21.81	21.76		
5	QPSK	12	0	20.84	20.73	20.84	21.5	1.5
5	QPSK	12	7	20.85	20.88	20.82		
5	QPSK	12	13	20.81	20.90	20.98		
5	QPSK	25	0	20.83	20.86	20.85	21.5	1.5
5	16QAM	1	0	21.09	21.15	21.03		
5	16QAM	1	12	20.92	20.94	21.05		
5	16QAM	1	24	21.08	20.98	21.15	21.5	1.5
5	16QAM	12	0	19.80	19.65	19.69		
5	16QAM	12	7	19.92	19.89	19.87		
5	16QAM	12	13	19.85	19.80	19.99	20.5	2.5
5	16QAM	25	0	19.84	19.89	19.78		
5	64QAM	1	0	21.09	20.82	20.85		
5	64QAM	1	12	21.02	20.88	20.90	21.5	1.5
5	64QAM	1	24	20.85	21.01	21.00		
5	64QAM	12	0	19.81	19.75	19.77		
5	64QAM	12	7	19.83	19.69	19.88	20.5	2.5
5	64QAM	12	13	19.87	19.79	19.83		
5	64QAM	25	0	19.87	19.81	19.87		
Channel				19955	20175	20385	23	0
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	21.64	21.57	21.60	22.5	0.5
3	QPSK	1	8	21.66	21.68	21.67		
3	QPSK	1	14	21.64	21.71	21.62		
3	QPSK	8	0	20.81	20.70	20.74	21.5	1.5
3	QPSK	8	4	20.75	20.70	20.75		
3	QPSK	8	7	20.76	20.74	20.75		
3	QPSK	15	0	20.77	20.65	20.77	21.5	1.5
3	16QAM	1	0	21.01	20.93	21.06		
3	16QAM	1	8	20.91	20.95	20.87		
3	16QAM	1	14	21.02	20.94	20.91	20.5	2.5
3	16QAM	8	0	19.73	19.72	19.80		
3	16QAM	8	4	19.76	19.69	19.78		
3	16QAM	8	7	19.80	19.72	19.78	21.5	1.5
3	16QAM	15	0	19.71	19.66	19.76		
3	64QAM	1	0	19.98	19.82	19.89		
3	64QAM	1	8	19.84	19.82	19.82	20.5	2.5
3	64QAM	1	14	19.80	19.79	19.88		
3	64QAM	8	0	18.85	18.73	18.81		
3	64QAM	8	4	18.82	18.81	18.75	21.5	1.5
3	64QAM	8	7	18.79	18.84	18.78		
3	64QAM	15	0	18.78	18.70	18.73		
Channel				19957	20175	20393	23	0
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	21.65	21.51	21.64	22.5	0.5
1.4	QPSK	1	3	21.66	21.56	21.68		
1.4	QPSK	1	5	21.64	21.51	21.67		
1.4	QPSK	3	0	21.66	21.52	21.68	21.5	1.5
1.4	QPSK	3	1	21.71	21.54	21.67		
1.4	QPSK	3	3	21.68	21.51	21.70		
1.4	QPSK	6	0	20.75	20.63	20.75	20.5	2.5
1.4	16QAM	1	0	20.97	20.90	20.97		
1.4	16QAM	1	3	21.01	20.93	20.99		
1.4	16QAM	1	5	20.92	20.90	20.88	21.5	1.5
1.4	16QAM	3	0	20.76	20.59	20.72		
1.4	16QAM	3	1	20.82	20.65	20.72		
1.4	16QAM	3	3	20.83	20.62	20.73	20.5	2.5
1.4	16QAM	6	0	19.83	19.67	19.85		
1.4	64QAM	1	0	20.95	20.83	20.83		
1.4	64QAM	1	3	20.88	20.68	20.97	21.5	1.5
1.4	64QAM	1	5	20.69	20.66	20.85		
1.4	64QAM	3	0	20.73	20.67	20.77		
1.4	64QAM	3	1	20.62	20.67	20.83	20.5	2.5
1.4	64QAM	3	3	20.80	20.63	20.75		
1.4	64QAM	6	0	19.74	19.58	19.77		



Band 2 (1900MHz Band)-Simultaneous for Head

Part 24E

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low, Power Mid, Power High, Ch./Freq., Tune-up limit, MPR, < Tune-up, > Tune-up, Ch Delta > 0.5. Includes sub-sections for Channel and Frequency (MHz).

Band 7 (2600MHz Band)-Simultaneous for Head

Part 27

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low, Power Mid, Power High, Ch./Freq., Tune-up limit, MPR, < Tune-up, > Tune-up, Ch Delta > 0.5. Includes sub-sections for Channel and Frequency (MHz).

Band 66 -Simultaneous for Head

Table with columns: BW [MHz], Modulation, RB Size, RB Offset, Power Low, Power Mid, Power High, Ch./Freq., Tune-up limit, MPR. Includes sub-sections for Channel and Frequency (MHz).



Band 4 - Simultaneous for Head										
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq. 20050	Middle Ch. / Freq. 20175	High Ch. / Freq. 20300				
Channel				1720	1732.5	1745				
Frequency (MHz)										
20	QPSK	1	0	18.45	18.53	18.51	19.5	0		
20	QPSK	1	49	18.27	18.21	18.23				
20	QPSK	1	99	18.22	18.28	18.35				
20	QPSK	50	0	18.25	18.38	18.28	19.5	0		
20	QPSK	50	24	18.34	18.29	18.24				
20	QPSK	50	50	18.16	18.17	18.18				
20	QPSK	100	0	18.23	18.27	18.27	19.5	0		
20	16QAM	1	0	18.42	18.32	18.45				
20	16QAM	1	49	18.47	18.34	18.40				
20	16QAM	1	99	18.35	18.36	18.38	19.5	0		
20	16QAM	50	0	18.30	18.24	18.28				
20	16QAM	50	24	18.35	18.28	18.29				
20	16QAM	50	50	18.26	18.24	18.26	19.5	0		
20	16QAM	100	0	18.22	18.27	18.12				
20	64QAM	1	0	18.27	18.40	18.29				
20	64QAM	1	49	18.30	18.23	18.28	19.5	0		
20	64QAM	1	99	18.33	18.24	18.20				
20	64QAM	50	0	18.19	18.28	18.37				
20	64QAM	50	24	18.18	18.24	18.20	19.5	0		
20	64QAM	50	50	18.21	18.17	18.24				
20	64QAM	100	0	18.28	18.32	18.30				
Channel				20025	20175	20325				
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	18.35	18.42	18.41	19.5	0		
15	QPSK	1	37	18.32	18.29	18.38				
15	QPSK	1	74	18.29	18.30	18.47				
15	QPSK	36	0	18.17	18.20	18.27	19.5	0		
15	QPSK	36	20	18.25	18.26	18.36				
15	QPSK	36	39	18.27	18.28	18.29				
15	QPSK	75	0	18.26	18.24	18.30	19.5	0		
15	16QAM	1	0	18.42	18.53	18.34				
15	16QAM	1	37	18.34	18.45	18.52				
15	16QAM	1	74	18.32	18.41	18.50	19.5	0		
15	16QAM	36	0	18.24	18.27	18.30				
15	16QAM	36	20	18.20	18.26	18.29				
15	16QAM	36	39	18.25	18.22	18.26	19.5	0		
15	16QAM	75	0	18.30	18.34	18.33				
15	64QAM	1	0	18.38	18.45	18.36				
15	64QAM	1	37	18.28	18.36	18.28	19.5	0		
15	64QAM	1	74	18.17	18.20	18.33				
15	64QAM	36	0	18.23	18.33	18.36				
15	64QAM	36	20	18.28	18.21	18.24	19.5	0		
15	64QAM	36	39	18.34	18.37	18.27				
15	64QAM	75	0	18.36	18.30	18.30				
Channel				20000	20175	20350				
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	18.41	18.32	18.42	19.5	0		
10	QPSK	1	25	18.45	18.46	18.37				
10	QPSK	1	49	18.42	18.39	18.41				
10	QPSK	25	0	18.24	18.28	18.22	19.5	0		
10	QPSK	25	12	18.30	18.30	18.40				
10	QPSK	25	25	18.40	18.38	18.46				
10	QPSK	50	0	18.35	18.32	18.44	19.5	0		
10	16QAM	1	0	18.50	18.53	18.45				
10	16QAM	1	25	18.44	18.44	18.34				
10	16QAM	1	49	18.34	18.33	18.44	19.5	0		
10	16QAM	25	0	18.30	18.32	18.45				
10	16QAM	25	12	18.45	18.40	18.48				
10	16QAM	25	25	18.37	18.44	18.44	19.5	0		
10	16QAM	50	0	18.35	18.36	18.50				
10	64QAM	1	0	18.50	18.47	18.46				
10	64QAM	1	25	18.51	18.51	18.53	19.5	0		
10	64QAM	1	49	18.44	18.44	18.49				
10	64QAM	25	0	18.31	18.32	18.34				
10	64QAM	25	12	18.27	18.23	18.44	19.5	0		
10	64QAM	25	25	18.33	18.34	18.36				
10	64QAM	50	0	18.36	18.35	18.42				
Channel				19975	20175	20375				
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	18.32	18.38	18.38	19.5	0		
5	QPSK	1	12	18.36	18.34	18.46				
5	QPSK	1	24	18.36	18.50	18.42				
5	QPSK	12	0	18.34	18.29	18.34	19.5	0		
5	QPSK	12	7	18.40	18.33	18.35				
5	QPSK	12	13	18.38	18.47	18.44				
5	QPSK	25	0	18.35	18.30	18.37	19.5	0		
5	16QAM	1	0	18.34	18.34	18.43				
5	16QAM	1	12	18.45	18.46	18.40				
5	16QAM	1	24	18.43	18.51	18.44	19.5	0		
5	16QAM	12	0	18.21	18.18	18.27				
5	16QAM	12	7	18.41	18.36	18.31				
5	16QAM	12	13	18.46	18.48	18.43	19.5	0		
5	16QAM	25	0	18.44	18.40	18.36				
5	64QAM	1	0	18.34	18.35	18.34				
5	64QAM	1	12	18.32	18.46	18.43	19.5	0		
5	64QAM	1	24	18.40	18.45	18.46				
5	64QAM	12	0	18.33	18.24	18.30				
5	64QAM	12	7	18.49	18.35	18.41	19.5	0		
5	64QAM	12	13	18.36	18.29	18.44				
5	64QAM	25	0	18.40	18.34	18.35				
Channel				19965	20175	20385				
Frequency (MHz)				1711.5	1732.5	1753.5				
3	QPSK	1	0	18.28	18.26	18.21	19.5	0		
3	QPSK	1	8	18.30	18.42	18.29				
3	QPSK	1	14	18.32	18.29	18.28				
3	QPSK	8	0	18.27	18.24	18.31	19.5	0		
3	QPSK	8	4	18.13	18.13	18.20				
3	QPSK	8	7	18.16	18.16	18.14				
3	QPSK	15	0	18.24	18.20	18.20	19.5	0		
3	16QAM	1	0	18.40	18.31	18.46				
3	16QAM	1	8	18.38	18.41	18.34				
3	16QAM	1	14	18.44	18.34	18.38	19.5	0		
3	16QAM	8	0	18.13	18.20	18.20				
3	16QAM	8	4	18.24	18.10	18.40				
3	16QAM	8	7	18.20	18.06	18.20	19.5	0		
3	16QAM	15	0	18.24	18.27	18.24				
3	64QAM	1	0	18.22	18.05	18.22				
3	64QAM	1	8	18.23	18.16	18.16	19.5	0		
3	64QAM	1	14	18.06	18.12	18.11				
3	64QAM	8	0	18.03	18.06	18.18				
3	64QAM	8	4	18.15	18.12	17.97	19.5	0		
3	64QAM	8	7	17.98	18.03	18.02				
3	64QAM	15	0	17.92	18.01	17.98				
Channel				19957	20175	20393				
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	18.41	18.33	18.43	19.5	0		
1.4	QPSK	1	3	18.50	18.32	18.42				
1.4	QPSK	1	5	18.36	18.31	18.40				
1.4	QPSK	3	0	18.42	18.34	18.47	19.5	0		
1.4	QPSK	3	1	18.52	18.26	18.47				
1.4	QPSK	3	3	18.44	18.27	18.52				
1.4	QPSK	6	0	18.37	18.26	18.33	19.5	0		
1.4	16QAM	1	0	18.34	18.48	18.53				
1.4	16QAM	1	3	18.34	18.33	18.23				
1.4	16QAM	1	5	18.24	18.44	18.50	19.5	0		
1.4	16QAM	3	0	18.38	18.17	18.36				
1.4	16QAM	3	1	18.46	18.28	18.30				
1.4	16QAM	3	3	18.41	18.16	18.35	19.5	0		
1.4	16QAM	6	0	18.45	18.25	18.49				
1.4	64QAM	1	0	18.34	18.46	18.37				
1.4	64QAM	1	3	18.46	18.26	18.23	19.5	0		
1.4	64QAM	1	5	18.32	18.24	18.41				
1.4	64QAM	3	0	18.27	18.29	18.32				
1.4	64QAM	3	1	18.20	18.31	18.44	19.5	0		
1.4	64QAM	3	3	18.43	18.21	18.31				
1.4	64QAM	6	0	18.28	18.20	18.32				



Reduced Power Mode for Head-ANT6

Band	WCDMA I			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	
	Tx Channel	9662	9600		9638	1312	1413		1513
Rx Channel	9662	9600	9638		1537	1638	1738		
Frequency (MHz)	1824	1800	1807.4		1724	1723	1723.4		
3GPP Rel 99	AMR 12.2kbps	20.72	20.73	20.71	22.00	22.21	22.15	22.14	23.00
3GPP Rel 99	RM-C 12.2kbps	20.73	20.75	20.72	22.00	22.25	22.17	22.16	23.00
3GPP Rel 6	HSDPA Subtest-1	20.01	20.01	19.87	21.00	21.07	21.10	21.41	22.00
3GPP Rel 6	HSDPA Subtest-2	19.99	19.88	19.74	21.00	21.11	21.16	21.35	22.00
3GPP Rel 6	HSDPA Subtest-3	19.44	19.34	19.33	20.50	20.58	20.64	20.85	21.50
3GPP Rel 6	HSDPA Subtest-4	19.42	19.32	19.23	20.50	20.58	20.64	20.84	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.93	19.91	19.98	21.00	20.97	21.00	21.02	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.97	19.98	20.01	21.00	21.02	20.97	20.99	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.49	19.46	19.47	20.50	20.47	20.49	20.51	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.42	19.39	19.43	20.50	20.46	20.48	20.45	21.50
3GPP Rel 6	HSPA Subtest-1	19.30	19.15	19.10	21.00	20.27	20.38	20.08	22.00
3GPP Rel 6	HSPA Subtest-2	17.10	17.01	17.11	19.00	18.15	18.23	18.15	20.00
3GPP Rel 6	HSPA Subtest-3	18.19	18.11	18.06	20.00	19.16	19.31	19.08	21.00
3GPP Rel 6	HSPA Subtest-4	17.07	17.00	17.09	19.00	18.14	18.22	18.14	20.00
3GPP Rel 6	HSPA Subtest-5	19.30	19.20	19.10	21.00	20.30	20.40	20.10	22.00



Band 2 (1900MHz Band) - Receiver on										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	1860	1880	1900	21.5	0		
20	QPSK	1	49	20.79	20.76	20.84				
20	QPSK	1	99	20.77	20.78	20.88				
20	QPSK	50	0	20.68	20.69	20.61				
20	QPSK	50	24	20.57	20.65	20.55				
20	QPSK	50	50	20.61	20.63	20.52				
20	QPSK	100	0	20.53	20.64	20.55				
20	16QAM	1	0	20.59	20.61	20.41				
20	16QAM	1	49	20.52	20.88	20.59				
20	16QAM	1	99	20.54	20.62	20.56				
20	16QAM	50	0	20.56	20.51	20.59				
20	16QAM	50	24	20.60	20.53	20.55				
20	16QAM	50	50	20.57	20.55	20.53				
20	16QAM	100	0	20.67	20.81	20.80				
20	84QAM	1	0	20.87	20.81	20.80				
20	84QAM	1	49	20.54	20.60	20.45				
20	84QAM	1	99	20.45	20.61	20.88				
20	84QAM	50	0	20.49	20.42	20.50				
20	84QAM	50	24	20.44	20.37	20.44				
20	84QAM	50	50	20.44	20.40	20.40				
20	84QAM	100	0	20.40	20.47	20.45				
Channel										
Frequency (MHz)										
15	QPSK	1	0	1867.5	1890	1912.5	21.5	0		
15	QPSK	1	37	20.64	20.67	20.54				
15	QPSK	1	74	20.40	20.30	20.55				
15	QPSK	1	37	20.52	20.42	20.43				
15	QPSK	36	0	20.53	20.51	20.45				
15	QPSK	36	20	20.56	20.50	20.50				
15	QPSK	36	39	20.65	20.51	20.58				
15	QPSK	75	0	20.59	20.60	20.51				
15	16QAM	1	0	20.65	20.78	20.41				
15	16QAM	1	37	20.61	20.78	20.78				
15	16QAM	1	74	20.78	20.56	20.59				
15	16QAM	36	0	20.67	20.70	20.63				
15	16QAM	36	20	20.58	20.54	20.48				
15	16QAM	36	39	20.67	20.58	20.58				
15	16QAM	75	0	20.62	20.56	20.41				
15	84QAM	1	0	20.58	20.49	20.68				
15	84QAM	1	37	20.77	20.60	20.77				
15	84QAM	1	74	20.55	20.70	20.69				
15	84QAM	36	0	20.45	20.36	20.43				
15	84QAM	36	20	20.44	20.42	20.34				
15	84QAM	36	39	20.44	20.37	20.45				
15	84QAM	75	0	20.43	20.46	20.32				
Channel										
Frequency (MHz)										
10	QPSK	1	0	1850	1890	1910	21.5	0		
10	QPSK	1	25	20.60	20.76	20.81				
10	QPSK	1	49	20.40	20.48	20.64				
10	QPSK	25	0	20.79	20.78	20.81				
10	QPSK	25	12	20.90	20.85	20.83				
10	QPSK	25	25	20.97	20.83	20.93				
10	QPSK	50	0	20.90	20.89	20.79				
10	16QAM	1	0	20.90	20.78	20.63				
10	16QAM	1	25	20.76	20.87	20.65				
10	16QAM	1	49	20.74	20.78	20.77				
10	16QAM	25	0	20.90	20.87	20.62				
10	16QAM	25	12	20.90	20.78	20.74				
10	16QAM	25	25	20.76	20.79	20.62				
10	16QAM	50	0	20.90	20.70	20.69				
10	84QAM	1	0	20.94	20.72	20.67				
10	84QAM	1	25	20.92	20.65	20.78				
10	84QAM	1	49	20.78	20.55	20.65				
10	84QAM	25	0	20.38	20.27	20.31				
10	84QAM	25	12	20.39	20.40	20.38				
10	84QAM	25	25	20.56	20.35	20.35				
10	84QAM	50	0	20.43	20.43	20.24				
Channel										
Frequency (MHz)										
5	QPSK	1	0	1852.5	1880	1917.5	21.5	0		
5	QPSK	1	12	20.64	20.56	20.61				
5	QPSK	1	24	20.34	20.44	20.48				
5	QPSK	12	0	20.60	20.49	20.50				
5	QPSK	12	13	20.51	20.52	20.54				
5	QPSK	12	13	20.58	20.51	20.55				
5	QPSK	25	0	20.54	20.50	20.56				
5	16QAM	1	0	20.81	20.86	20.78				
5	16QAM	1	12	20.69	20.40	20.55				
5	16QAM	1	24	20.69	20.56	20.64				
5	16QAM	12	0	20.56	20.53	20.51				
5	16QAM	12	7	20.64	20.70	20.54				
5	16QAM	12	13	20.62	20.58	20.65				
5	16QAM	25	0	20.47	20.58	20.56				
5	84QAM	1	0	20.87	20.56	20.96				
5	84QAM	1	12	20.63	20.68	20.63				
5	84QAM	1	24	20.66	20.76	20.81				
5	84QAM	12	0	20.27	20.06	20.22				
5	84QAM	12	7	20.31	20.27	20.38				
5	84QAM	12	13	20.11	20.22	20.26				
5	84QAM	25	0	20.17	20.32	20.22				
Channel										
Frequency (MHz)										
3	QPSK	1	0	1851.5	1890	1913.5	21.5	0		
3	QPSK	1	8	20.38	20.49	20.41				
3	QPSK	1	14	20.45	20.49	20.42				
3	QPSK	8	0	20.51	20.35	20.52				
3	QPSK	8	4	20.60	20.50	20.55				
3	QPSK	8	7	20.55	20.49	20.48				
3	QPSK	15	0	20.50	20.52	20.53				
3	16QAM	1	0	20.71	20.67	20.76				
3	16QAM	1	8	20.73	20.63	20.77				
3	16QAM	1	14	20.63	20.67	20.70				
3	16QAM	8	0	20.54	20.53	20.65				
3	16QAM	8	4	20.66	20.60	20.51				
3	16QAM	8	7	20.64	20.43	20.61				
3	16QAM	15	0	20.55	20.53	20.58				
3	84QAM	1	0	20.87	20.51	20.78				
3	84QAM	1	8	20.79	20.73	20.74				
3	84QAM	1	14	20.78	20.55	20.66				
3	84QAM	8	0	20.29	20.19	20.27				
3	84QAM	8	4	20.28	20.30	20.43				
3	84QAM	8	7	20.16	20.44	20.26				
3	84QAM	15	0	20.22	20.26	20.26				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.30	20.34	20.38	21.5	0		
1.4	QPSK	1	3	20.39	20.39	20.31				
1.4	QPSK	1	5	20.31	20.30	20.27				
1.4	QPSK	3	0	20.36	20.45	20.36				
1.4	QPSK	3	1	20.51	20.51	20.43				
1.4	QPSK	3	3	20.38	20.36	20.35				
1.4	QPSK	6	0	20.42	20.45	20.38				
1.4	16QAM	1	0	20.90	20.76	20.57				
1.4	16QAM	1	3	20.94	20.90	20.65				
1.4	16QAM	1	5	20.11	20.25	20.79				
1.4	16QAM	3	0	20.63	20.58	20.56				
1.4	16QAM	3	1	20.68	20.76	20.57				
1.4	16QAM	3	3	20.43	20.57	20.52				
1.4	16QAM	6	0	20.65	20.61	20.42				
1.4	84QAM	1	0	20.67	20.87	20.76				
1.4	84QAM	1	3	20.62	20.86	20.69				
1.4	84QAM	1	5	20.76	20.76	20.64				
1.4	84QAM	3	0	20.56	20.38	20.63				
1.4	84QAM	3	1	20.33	20.83	20.78				
1.4	84QAM	3	3	20.54	20.60	20.76				
1.4	84QAM	6	0	20.40	20.40	20.44				

Band 7 (2600MHz Band) - Receiver on										
Part 2B										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20510	20535	20560	20	0		
20	QPSK	1	49	19.21	19.23	19.09				



Band 4 - Receiver on									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	21.54	21.70	21.86	22.5	0	
20	QPSK	1	49	21.56	21.41	21.50			
20	QPSK	1	99	21.38	21.42	21.57			
20	QPSK	50	0	21.40	21.65	21.51			
20	QPSK	50	24	21.64	21.42	21.48			
20	QPSK	50	50	21.41	21.35	21.45			
20	QPSK	100	0	21.49	21.39	21.47			
20	16QAM	1	0	21.73	21.56	21.64	22.5	0	
20	16QAM	1	49	21.71	21.44	21.71			
20	16QAM	1	99	21.63	21.56	21.68			
20	16QAM	50	0	21.00	21.08	21.34			
20	16QAM	50	24	21.11	21.18	21.22			
20	16QAM	50	50	21.09	21.03	21.11			
20	16QAM	100	0	21.14	21.07	21.22			
20	64QAM	1	0	21.13	21.13	21.41			
20	64QAM	1	49	21.11	21.22	21.22			
20	64QAM	1	99	21.22	21.21	21.11			
20	64QAM	50	0	20.00	20.03	20.36			
20	64QAM	50	24	20.07	20.12	20.38			
20	64QAM	50	50	19.92	20.00	20.41			
20	64QAM	100	0	20.17	20.16	20.42			
Channel				20025	20175	20325			
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	21.59	21.66	21.68	22.5	0	
15	QPSK	1	37	21.56	21.52	21.62			
15	QPSK	1	74	21.50	21.60	21.68			
15	QPSK	36	0	21.46	21.48	21.60			
15	QPSK	36	20	21.34	21.59	21.55			
15	QPSK	36	39	21.51	21.50	21.57			
15	QPSK	75	0	21.49	21.44	21.57			
15	16QAM	1	0	21.73	21.56	21.54	22.5	0	
15	16QAM	1	37	21.52	21.74	21.78			
15	16QAM	1	74	21.62	21.66	21.55			
15	16QAM	36	0	21.31	21.27	21.20			
15	16QAM	36	20	21.28	21.34	21.24			
15	16QAM	36	39	21.22	21.33	21.28			
15	16QAM	75	0	21.27	21.13	21.11			
15	64QAM	1	0	21.14	21.39	21.21			
15	64QAM	1	37	21.24	21.33	21.38			
15	64QAM	1	74	21.30	21.43	21.16			
15	64QAM	36	0	20.24	20.19	20.20			
15	64QAM	36	20	20.32	20.25	20.25			
15	64QAM	36	39	20.38	20.27	20.27			
15	64QAM	75	0	20.31	20.15	20.25			
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	21.69	21.42	21.70	22.5	0	
10	QPSK	1	25	21.69	21.73	21.76			
10	QPSK	1	49	21.54	21.65	21.62			
10	QPSK	25	0	21.54	21.51	21.60			
10	QPSK	25	12	21.54	21.44	21.65			
10	QPSK	25	25	21.55	21.67	21.53			
10	QPSK	50	0	21.61	21.55	21.70			
10	16QAM	1	0	21.73	21.56	21.76	22.5	0	
10	16QAM	1	25	21.55	21.78	21.54			
10	16QAM	1	49	21.56	21.54	21.56			
10	16QAM	25	0	21.18	20.96	21.25			
10	16QAM	25	12	21.20	21.20	21.12			
10	16QAM	25	25	21.01	21.18	21.29			
10	16QAM	50	0	21.15	21.12	21.23			
10	64QAM	1	0	21.11	21.11	21.10			
10	64QAM	1	25	21.12	21.10	21.12			
10	64QAM	1	49	21.12	21.34	21.12			
10	64QAM	25	0	20.23	20.26	20.18			
10	64QAM	25	12	20.17	20.21	20.10			
10	64QAM	25	25	20.33	20.28	20.31			
10	64QAM	50	0	20.29	20.16	20.34			
Channel				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	21.61	21.60	21.62	22.5	0	
5	QPSK	1	12	21.56	21.57	21.69			
5	QPSK	1	24	21.55	21.73	21.72			
5	QPSK	12	0	21.46	21.47	21.62			
5	QPSK	12	7	21.63	21.66	21.60			
5	QPSK	12	13	21.55	21.64	21.76			
5	QPSK	25	0	21.61	21.60	21.59			
5	16QAM	1	0	21.56	21.77	21.77	22.5	0	
5	16QAM	1	12	21.66	21.68	21.56			
5	16QAM	1	24	21.66	21.72	21.54			
5	16QAM	12	0	21.14	20.83	20.99			
5	16QAM	12	7	21.22	21.19	21.17			
5	16QAM	12	13	21.15	21.14	21.29			
5	16QAM	25	0	21.14	21.23	20.96			
5	64QAM	1	0	21.12	21.16	21.31			
5	64QAM	1	12	21.12	21.12	21.12			
5	64QAM	1	24	21.31	21.08	21.01			
5	64QAM	12	0	20.15	20.21	20.11			
5	64QAM	12	7	20.27	20.15	20.12			
5	64QAM	12	13	20.11	20.25	20.12			
5	64QAM	25	0	20.33	20.15	20.33			
Channel				19950	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	21.60	21.53	21.56	22.5	0	
3	QPSK	1	8	21.58	21.64	21.59			
3	QPSK	1	14	21.56	21.63	21.58			
3	QPSK	8	0	21.43	21.44	21.52			
3	QPSK	8	4	21.53	21.48	21.49			
3	QPSK	8	7	21.50	21.48	21.37			
3	QPSK	15	0	21.55	21.39	21.51			
3	16QAM	1	0	21.63	21.67	21.45			
3	16QAM	1	8	21.69	21.69	21.61			
3	16QAM	1	14	21.76	21.68	21.65			
3	16QAM	8	0	21.03	20.90	21.10			
3	16QAM	8	4	21.06	21.03	21.08			
3	16QAM	8	7	21.10	21.02	21.08			
3	16QAM	15	0	21.01	20.96	21.10			
3	64QAM	1	0	21.01	21.16	21.09			
3	64QAM	1	8	21.30	21.32	21.28			
3	64QAM	1	14	21.26	21.25	21.34			
3	64QAM	8	0	20.19	20.19	20.15			
3	64QAM	8	4	20.16	20.27	20.25			
3	64QAM	8	7	20.29	20.30	20.24			
3	64QAM	15	0	20.24	20.04	20.07			
Channel				19925	20175	20395			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	21.61	21.47	21.60	22.5	0	
1.4	QPSK	1	3	21.61	21.48	21.60			
1.4	QPSK	1	5	21.56	21.31	21.63			
1.4	QPSK	3	0	21.46	21.48	21.48			
1.4	QPSK	3	1	21.67	21.46	21.59			
1.4	QPSK	3	3	21.60	21.43	21.50			
1.4	QPSK	6	0	21.49	21.37	21.49	22.5	0	
1.4	16QAM	1	0	21.71	21.52	21.71			
1.4	16QAM	1	3	21.63	21.55	21.77			
1.4	16QAM	1	5	21.70	21.68	21.62			
1.4	16QAM	3	0	21.50	21.33	21.46			
1.4	16QAM	3	1	21.44	21.43	21.50			
1.4	16QAM	3	3	21.61	21.36	21.47			
1.4	16QAM	6	0	21.13	20.97	21.03	21.5	1	
1.4	64QAM	1	0	21.25	21.13	21.17			
1.4	64QAM	1	3	21.18	20.98	21.27			
1.4	64QAM	1	5	20.87	20.84	21.15			
1.4	64QAM	3	0	21.07	20.85	20.95			
1.4	64QAM	3	1	20.90	20.91	21.03			
1.4	64QAM	3	3	21.14	21.04	21.11			
1.4	64QAM	6	0	20.04	19.76	19.95	20.5	2	



Band 38 - Receiver on

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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	19.94	19.97	19.96	21	0
20	QPSK	1	49	19.90	19.88	19.84		
20	QPSK	1	99	19.88	19.87	19.80		
20	QPSK	50	0	19.88	19.88	19.88	21	0
20	QPSK	50	24	19.95	19.87	19.89		
20	QPSK	50	50	19.91	19.94	19.79		
20	QPSK	100	0	19.91	19.96	19.90	21	0
20	16QAM	1	0	19.95	19.87	19.90		
20	16QAM	1	49	19.80	19.89	19.77		
20	16QAM	1	99	19.81	19.78	19.76	21	0
20	16QAM	50	0	19.91	19.93	19.94		
20	16QAM	50	24	19.87	19.95	19.87		
20	16QAM	50	50	19.88	19.87	19.83	21	0
20	16QAM	100	0	19.88	19.80	19.92		
20	64QAM	1	0	19.81	19.91	19.91		
20	64QAM	1	49	19.81	19.88	19.90	21	0
20	64QAM	1	99	19.77	19.74	19.67		
20	64QAM	50	0	19.93	19.94	19.86		
20	64QAM	50	24	19.88	19.87	19.94	20.5	0.5
20	64QAM	50	50	19.88	19.87	19.83		
20	64QAM	100	0	19.95	19.96	19.93		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	19.96	19.93	19.91	21	0
15	QPSK	1	37	19.93	19.86	19.83		
15	QPSK	1	74	19.81	19.87	19.83		
15	QPSK	36	0	19.85	19.86	19.84	21	0
15	QPSK	36	20	19.90	19.83	19.78		
15	QPSK	36	39	19.81	19.86	19.82		
15	QPSK	75	0	19.87	19.89	19.83	21	0
15	16QAM	1	0	19.96	19.88	19.91		
15	16QAM	1	37	19.78	19.83	19.77		
15	16QAM	1	74	19.80	19.80	19.75	21	0
15	16QAM	36	0	19.71	19.89	19.87		
15	16QAM	36	20	19.86	19.86	19.66		
15	16QAM	36	39	19.81	19.84	19.78	21	0
15	16QAM	75	0	19.88	19.89	19.76		
15	64QAM	1	0	19.70	19.91	19.74		
15	64QAM	1	37	19.81	19.91	19.76	21	0
15	64QAM	1	74	19.73	19.78	19.60		
15	64QAM	36	0	19.93	19.89	19.87		
15	64QAM	36	20	19.88	19.82	19.82	20.5	0.5
15	64QAM	36	39	19.95	19.87	19.81		
15	64QAM	75	0	19.93	19.93	19.89		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	19.96	19.92	19.95	21	0
10	QPSK	1	25	19.92	19.94	19.84		
10	QPSK	1	49	19.79	19.75	19.81		
10	QPSK	25	0	19.80	19.79	19.84	21	0
10	QPSK	25	12	19.88	19.77	19.67		
10	QPSK	25	25	19.91	19.83	19.91		
10	QPSK	50	0	19.79	19.75	19.68	21	0
10	16QAM	1	0	19.88	19.90	19.95		
10	16QAM	1	25	19.91	19.86	19.86		
10	16QAM	1	49	19.78	19.75	19.67	21	0
10	16QAM	25	0	19.85	19.75	19.76		
10	16QAM	25	12	19.89	19.74	19.69		
10	16QAM	25	25	19.72	19.92	19.69	21	0
10	16QAM	50	0	19.93	19.94	19.79		
10	64QAM	1	0	19.89	19.87	19.89		
10	64QAM	1	25	19.75	19.80	19.67	21	0
10	64QAM	1	49	19.74	19.74	19.64		
10	64QAM	25	0	19.95	19.92	19.90		
10	64QAM	25	12	19.92	19.93	19.78	20.5	0.5
10	64QAM	25	25	19.87	19.90	19.87		
10	64QAM	50	0	19.95	19.96	19.83		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	19.93	19.93	19.92	21	0
5	QPSK	1	12	19.81	19.88	19.78		
5	QPSK	1	24	19.93	19.95	19.90		
5	QPSK	12	0	19.79	19.90	19.77	21	0
5	QPSK	12	7	19.90	19.81	19.90		
5	QPSK	12	13	19.90	19.91	19.85		
5	QPSK	25	0	19.80	19.84	19.81	21	0
5	16QAM	1	0	19.91	19.89	19.86		
5	16QAM	1	12	19.89	19.91	19.83		
5	16QAM	1	24	19.87	19.96	19.96	21	0
5	16QAM	12	0	19.86	19.76	19.82		
5	16QAM	12	7	19.91	19.81	19.79		
5	16QAM	12	13	19.87	19.77	19.67	21	0
5	16QAM	25	0	19.77	19.92	19.89		
5	64QAM	1	0	19.85	19.80	19.88		
5	64QAM	1	12	19.92	19.93	19.81	21	0
5	64QAM	1	24	19.79	19.87	19.75		
5	64QAM	12	0	19.96	19.92	19.88		
5	64QAM	12	7	19.89	19.87	19.87	20.5	0.5
5	64QAM	12	13	19.89	19.93	19.87		
5	64QAM	25	0	19.89	19.93	19.96		



Band 41 (2.6G Band) - Receiver on										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.21	20.12	20.11	20.22	20.30	21	0
20	QPSK	1	49	19.91	19.89	20.12	20.11	20.12		
20	QPSK	1	99	19.81	19.80	19.96	20.04	20.04		
20	QPSK	50	0	19.85	19.82	19.95	20.05	20.12		
20	QPSK	50	24	19.98	19.98	20.03	20.11	20.09	21	0
20	QPSK	50	50	19.91	20.00	20.10	20.10	20.12		
20	QPSK	100	0	19.93	20.02	20.05	20.09	20.09		
20	16QAM	1	0	19.88	19.94	19.92	20.09	20.03		
20	16QAM	1	49	19.85	19.83	20.00	20.09	20.12	21	0
20	16QAM	1	99	19.90	19.82	20.01	20.13	20.11		
20	16QAM	50	0	19.93	19.89	20.02	19.86	20.03		
20	16QAM	50	24	19.99	20.02	20.09	19.78	19.96	21	0
20	16QAM	50	50	19.89	20.05	20.13	19.76	20.00		
20	16QAM	100	0	19.94	20.03	20.07	19.83	20.03		
20	64QAM	1	0	19.72	19.74	19.69	20.05	20.09		
20	64QAM	1	49	19.86	19.89	19.86	20.01	20.03	21	0
20	64QAM	1	99	19.86	19.60	19.82	20.03	20.03		
20	64QAM	50	0	19.79	19.88	20.00	19.98	20.00		
20	64QAM	50	24	19.91	19.89	20.09	19.77	19.89	20.5	0.5
20	64QAM	50	50	19.90	19.99	20.05	19.71	20.05		
20	64QAM	100	0	19.99	20.10	20.14	19.76	19.99		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.99	20.03	19.63	19.98	20.01	21	0
15	QPSK	1	37	19.81	19.73	19.79	20.01	20.01		
15	QPSK	1	74	19.87	19.89	19.96	19.96	19.98		
15	QPSK	36	0	19.77	19.82	19.83	20.02	19.98		
15	QPSK	36	20	19.79	19.83	19.88	19.98	20.08	21	0
15	QPSK	36	39	19.84	19.86	19.91	19.98	20.03		
15	QPSK	75	0	19.79	19.83	19.98	19.98	19.98		
15	16QAM	1	0	19.86	19.85	20.01	20.02	20.01		
15	16QAM	1	37	20.03	19.72	19.99	20.01	20.00	21	0
15	16QAM	1	74	19.86	19.95	20.09	20.09	19.93		
15	16QAM	36	0	19.89	19.83	19.82	19.59	19.79		
15	16QAM	36	20	19.88	19.82	19.92	19.84	19.74	21	0
15	16QAM	36	39	19.81	19.83	19.83	19.89	19.89		
15	16QAM	75	0	19.81	19.92	20.01	19.86	19.87		
15	64QAM	1	0	19.88	19.98	19.86	20.01	19.93		
15	64QAM	1	37	19.87	19.62	19.55	19.99	19.92	21	0
15	64QAM	1	74	19.84	19.54	19.64	19.93	19.91		
15	64QAM	36	0	19.83	19.87	19.84	19.84	19.91		
15	64QAM	36	20	19.78	19.87	19.89	19.81	19.82	20.5	0.5
15	64QAM	36	39	19.83	19.86	19.88	19.73	19.89		
15	64QAM	75	0	19.84	19.93	19.84	19.63	19.91		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.87	19.87	19.91	20.01	20.01	21	0
10	QPSK	1	25	19.70	19.72	19.78	19.98	20.03		
10	QPSK	1	49	19.68	19.70	19.77	19.99	20.10		
10	QPSK	25	0	19.74	19.78	19.86	19.67	19.86		
10	QPSK	25	12	19.84	20.18	19.96	20.12	19.89	21	0
10	QPSK	25	25	19.87	19.86	19.95	19.75	20.03		
10	QPSK	50	0	19.85	19.87	19.96	19.73	19.86		
10	16QAM	1	0	19.87	19.91	19.86	19.83	19.98		
10	16QAM	1	25	19.94	19.93	20.01	19.74	20.13	21	0
10	16QAM	1	49	19.92	19.78	19.88	20.10	20.09		
10	16QAM	25	0	19.81	19.77	19.90	19.99	20.01		
10	16QAM	25	12	19.90	19.95	19.94	19.89	19.96		
10	16QAM	25	25	19.86	19.77	19.95	20.01	19.93	21	0
10	16QAM	50	0	19.87	19.97	20.00	20.03	20.01		
10	64QAM	1	0	19.74	19.90	19.70	19.98	19.93		
10	64QAM	1	25	19.88	19.95	19.98	19.91	20.03	21	0
10	64QAM	1	49	19.81	19.97	19.81	19.92	20.01		
10	64QAM	25	0	19.87	19.83	19.88	19.99	19.96		
10	64QAM	25	12	19.89	19.87	20.02	19.98	20.03	20.5	0.5
10	64QAM	25	25	19.91	19.79	19.96	20.03	20.01		
10	64QAM	50	0	19.79	19.96	19.97	19.89	19.93		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2543.9	2593	2638.0	2683.5		
5	QPSK	1	0	19.89	19.74	19.93	19.88	20.03	21	0
5	QPSK	1	12	19.99	19.85	19.83	19.90	20.12		
5	QPSK	1	24	19.98	19.85	20.01	19.99	19.98		
5	QPSK	12	0	19.71	19.86	19.95	19.74	20.03		
5	QPSK	12	7	19.84	19.89	20.05	19.88	20.00	21	0
5	QPSK	12	13	19.92	19.92	19.96	19.72	20.08		
5	QPSK	25	0	19.88	19.89	20.07	19.81	20.07		
5	16QAM	1	0	19.91	20.00	20.08	20.03	20.09		
5	16QAM	1	12	19.64	19.65	19.94	19.89	20.01	21	0
5	16QAM	1	24	19.93	20.09	20.06	19.89	20.03		
5	16QAM	12	0	19.84	19.78	19.92	19.78	19.98		
5	16QAM	12	7	19.87	19.88	19.96	19.91	19.99		
5	16QAM	12	13	19.79	19.92	20.00	19.99	19.89	21	0
5	16QAM	25	0	19.83	19.91	20.04	20.01	20.01		
5	64QAM	1	0	19.81	19.70	19.76	19.88	20.11		
5	64QAM	1	12	19.85	19.73	19.89	19.92	20.03	21	0
5	64QAM	1	24	19.82	19.74	19.79	19.93	20.03		
5	64QAM	12	0	19.83	19.86	19.97	20.02	20.01		
5	64QAM	12	7	19.93	19.95	20.04	20.01	19.99	20.5	0.5
5	64QAM	12	13	19.83	19.93	20.09	19.89	19.91		
5	64QAM	25	0	19.91	19.97	20.09	19.99	20.03		

Band 41 (2.6G Band) HPUE (Limit 27) - Receiver on										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.89	19.98	19.97	19.71	19.98	21	0
20	QPSK	1	49	19.88	19.89	19.86	19.66	19.81		
20	QPSK	1	99	19.92	19.78	19.64	19.80	19.98		
20	QPSK	50	0	19.75	19.89	19.98	19.87	20.13		
20	QPSK	50	24	19.74	19.80	19.83	19.93	20.12	21	0
20	QPSK	50	50	19.89	19.79	19.85	19.93	20.10		
20	QPSK	100	0	19.99	19.79	19.84	19.95	20.16		
20	16QAM	1	0	19.86	19.94	19.96	20.03	20.09		
20	16QAM	1	49	19.84	19.85	19.97	19.99	20.28	21	0
20	16QAM	1	99	19.88	19.85	20.04	20.13	20.34		
20	16QAM	50	0	19.72	19.73	19.81	19.89	20.01		
20	16QAM	50	24	19.80	19.86	19.90	19.98	20.09	21	0
20	16QAM	50	50	19.79	19.84	19.90	19.97	20.03		
20	16QAM	100	0	19.80	19.94	19.92	19.98	20.20		
20	64QAM	1	0	19.76	19.82	19.82	19.93	20.01		
20	64QAM	1	49	19.91	19.70	19.82	19.96	20.03	21	0
20	64QAM	1	99	19.90	19.70	19.88	19.97	19.99		
20	64QAM	50	0	19.64	19.66	19.75	19.81	19.98		
20	64QAM	50	24	19.72	19.78	19.84	19.89	19.91	21	0
20	64QAM	50	50	19.70	19.87	19.83	19.92	20.01		
20	64QAM	100	0	19.8						