Appendix: Transfer Calibration at Four Validation Locations on SAM Head¹

Evaluation Condition

Phantom	SAM Head Phantom	For usage with cSAR3D V2 -R/L
---------	------------------	--------------------------------------

SAR result with SAM Head (Top \cong C0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	8.93 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Mouth \cong F90)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	9.38 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Neck \cong H0)

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	8.91 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

SAR result with SAM Head (Ear \cong D90)

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	normalized to 1W	7.66 W/kg ± 17.5 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	

-

Additional assessments outside the current scope of SCS 0108



D835V2, Serial No. 4d258 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

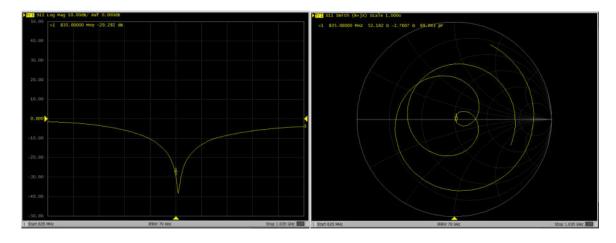
D835V2 – serial no. 4d258						
835 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2020.5.7	-31.51		51.04		-2.48	
2021.5.6	-29.29	0.07	52.16	-1.13	-2.7607	0.28

<Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> D835V2, serial no. 4d258

835MHz - Head



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958



In Collaboration with

CALIBRATION LABORATORY

CALIBRATION **CNAS L0570**

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Fax: +86-10-62304633-2504 http://www.chinattl.cn

Client

Sporton

Certificate No:

Z19-60085

CALIBRATION CERTIFICATE

Object D1900V2 - SN: 5d170

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

March 26, 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) to and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

Name Function Signature Calibrated by: Zhao Jing SAR Test Engineer Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: March 29, 2019

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Certificate No: Z19-60085

Page 1 of 8

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lossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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%.

Certificate No: Z19-60085



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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52,10,2,1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) *C	40.5 ± 6 %	1.44 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		M++1

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	39.0 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	5.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.3 W/kg ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53,3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.5 ± 6 %	1.56 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		-

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	10.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	40.0 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.28 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.0 W/kg ± 18.7 % (k=2)

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.7Ω+ 6.73jΩ	
Return Loss	- 23.3dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.8Ω+ 6.72jΩ	
Return Loss	- 22.8dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.066 ns
Electrical Delay (offe difection)	T,UDD HS

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

		_
Manufactured by	SPEAG	

Certificate No: Z19-60085 Page 4 of 8



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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.441 \text{ S/m}$; $\varepsilon_r = 40.48$; $\rho = 1000 \text{ kg/m}3$

Phantom section: Center Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3617; ConvF(8.14, 8.14, 8.14) @ 1900 MHz; Calibrated: 1/31/2019

Date: 03.26,2019

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

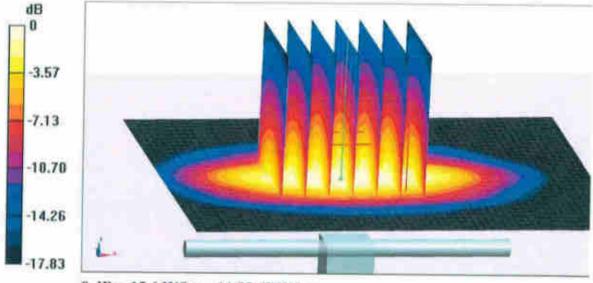
dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.54 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.12 W/kg

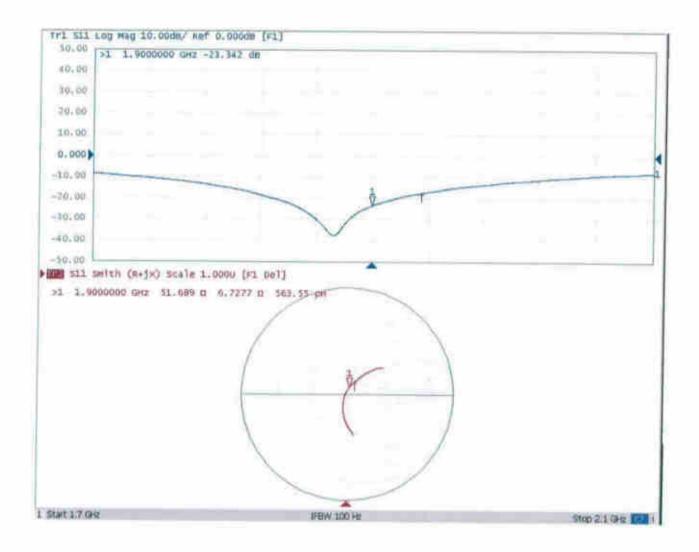
Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

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Impedance Measurement Plot for Head TSL.



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DASY5 Validation Report for Body TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d170

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.56$ S/m; $\varepsilon_r = 54.52$; $\rho = 1000$ kg/m3

Phantom section: Right Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3617; ConvF(7.78, 7.78, 7.78) @ 1900 MHz; Calibrated: 1/31/2019

Date: 03.26.2019

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

System Performance Check/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid:

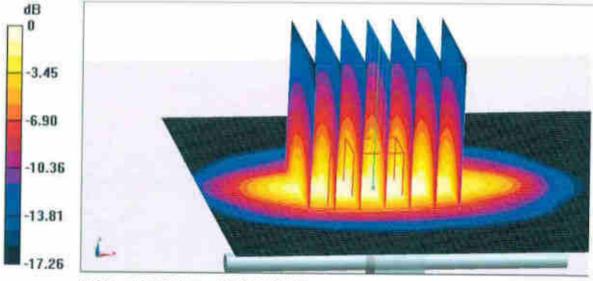
dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.48 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.28 W/kg

Maximum value of SAR (measured) = 15.7 W/kg

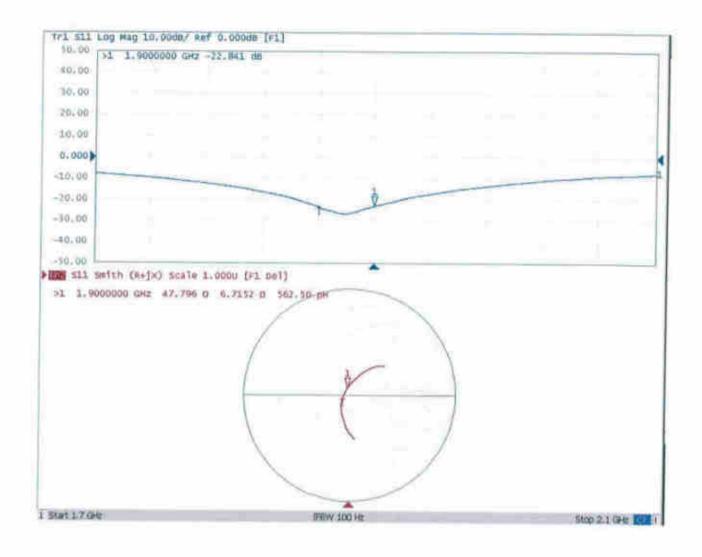


0 dB = 15.7 W/kg = 11.96 dBW/kg

Certificate No: Z19-60085 Page 7 of 8

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Impedance Measurement Plot for Body TSL





D1900V2, Serial No. 5d170 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

1900V2 – serial no. 5d170						
		1900 Head				
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2019.3.26	-23.3		47.8		6.7	
2020.3.25	-22.3	0.02	49.2	-1.4	7.4	-0.7
2021.3.25	-21.9	0.04	45.5	2.3	6.8	-0.1

<Justification of the extended calibration>

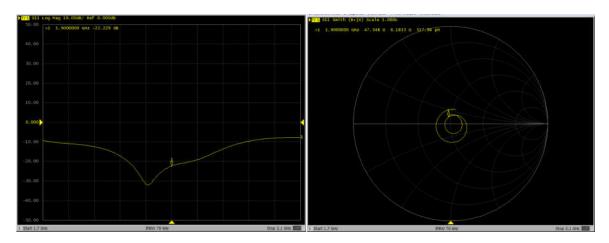
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958

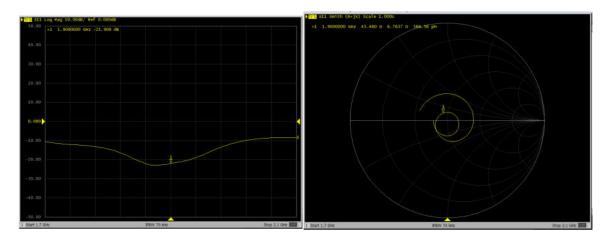


Dipole Verification Data> D1900V2, serial no. 5d170

1900MHz - Head----2020.3.25



1900MHz - Head----2021.3.25



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958



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Client

Sporton

Certificate No:

Z19-60087

CALIBRATION CERTIFICATE

Object D2450V2 - SN: 908

Calibration Procedure(s)

FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date:

March 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) and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Power sensor NRP8S	104291	20-Aug-18 (CTTL, No.J18X06862)	Aug-19
Reference Probe EX3DV4	SN 3617	31-Jan-19(SPEAG,No.EX3-3617_Jan19)	Jan-20
DAE4	SN 1331	06-Feb-19(SPEAG,No.DAE4-1331_Feb19)	Feb-20
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	23-Jan-19 (CTTL, No.J19X00336)	Jan-20
NetworkAnalyzer E5071C	MY46110673	24-Jan-19 (CTTL, No.J19X00547)	Jan-20

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

Issued: March 28, 2019

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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORMx,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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%.

Certificate No: Z19-60087 Page 2 of 8

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY52	52.10.2.1495
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) "C	39.6 ± 6 %	1.84 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	1200	

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.8 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.07 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.2 W/kg ± 18.7 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	53.8 ± 6 %	2.00 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C	2000	

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.8 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	50.8 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	5.91 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.6 W/kg ± 18.7 % (k=2)

Certificate No: Z19-60087 Page 3 of 8 Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn

Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	57.3Ω+ 5.18 μΩ	
Return Loss	- 21.6dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	52.6Ω+ 5.81 JΩ	
Return Loss	- 24.1dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.020 ns
Ciscinesi Beisy (one direction)	1.020 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: Z19-60087 Page 4 of 8

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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 908

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.841$ S/m; $\varepsilon_t = 39.63$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3617; ConvF(7.62, 7.62, 7.62) @ 2450 MHz; Calibrated: 1/31/2019

Date: 03.25.2019

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

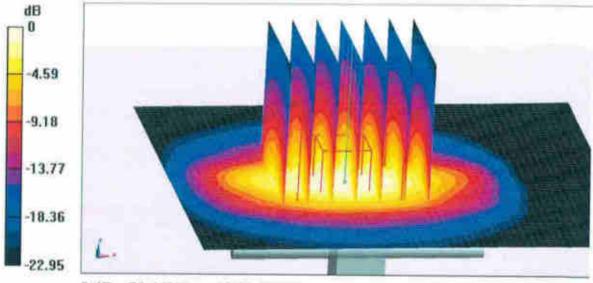
Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.04 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 28.3 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.07 W/kg

Maximum value of SAR (measured) = 22.4 W/kg



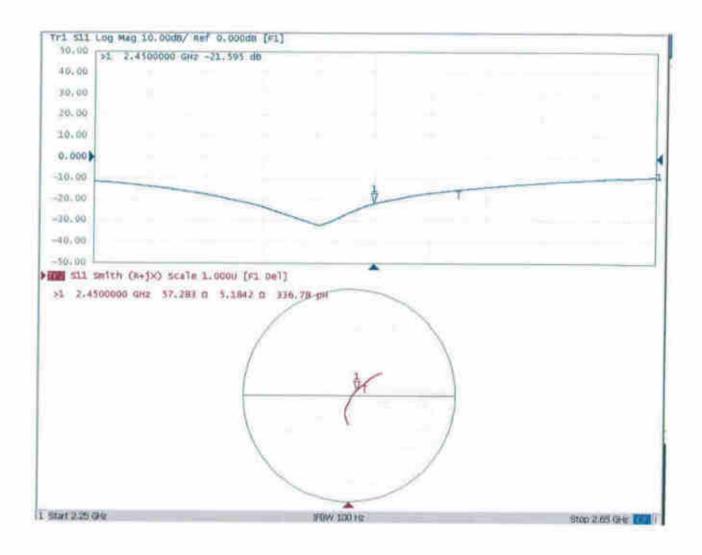
0 dB = 22.4 W/kg = 13.50 dBW/kg

Certificate No: Z19-60087



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn

Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 908

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 2.003$ S/m; $\varepsilon_r = 53.78$; $\rho = 1000$ kg/m³

Phantom section: Center Section

DASY5 Configuration:

 Probe: EX3DV4 - SN3617; ConvF(7.79, 7.79, 7.79) @ 2450 MHz; Calibrated: 1/31/2019

Date: 03.25.2019

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 2/6/2019
- Phantom: MFP_V5.1C; Type: QD 000 P51CA; Serial: 1062
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7450)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

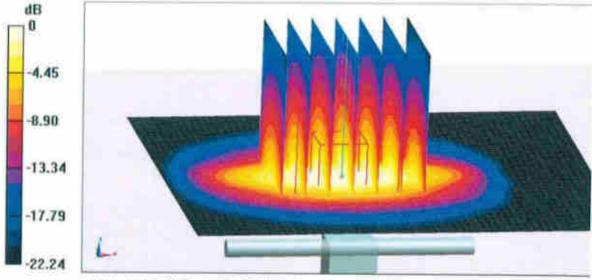
dy=5mm, dz=5mm

Reference Value = 95.51 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.91 W/kg

Maximum value of SAR (measured) = 21.4 W/kg

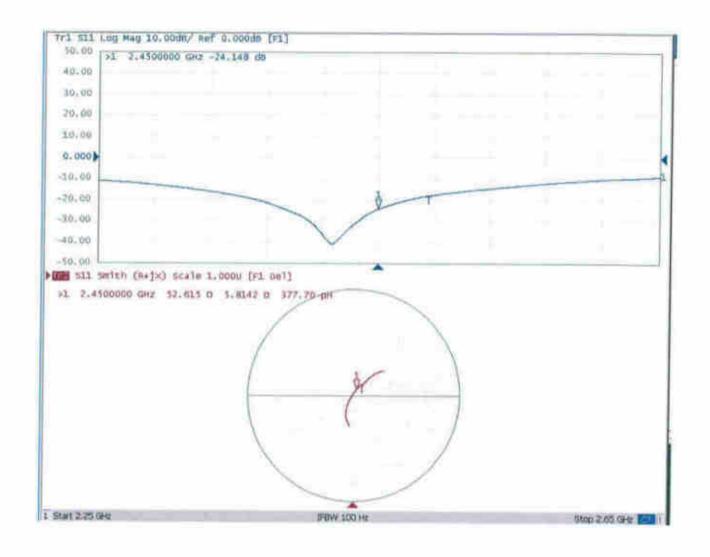


0 dB = 21.4 W/kg = 13.30 dBW/kg

Certificate No: Z19-60087 Page 7 of 8



Impedance Measurement Plot for Body TSL





D2450V2, Serial No. 908 Extended Dipole Calibrations

Referring to KDB 865664 D01 v01r02, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

D2450V2 – serial no. 908						
2450 Head						
Impedance Impedance				Delta (ohm)		
2019.3.25	-21.60		57.28		5.18	
2020.3.24	-22.7	-0.05	57.5	-0.18	2.4	2.81
2021.3.24	-21.30	0.01	55.80	1.49	5.67	-0.49

<Justification of the extended calibration>

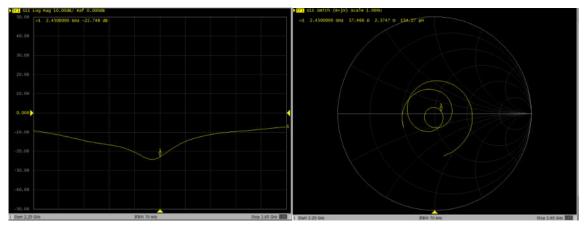
The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958

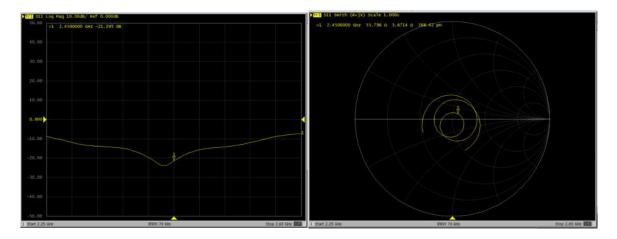


Dipole Verification Data> D2450V2, serial no. 908

2450MHz - Head----2020.3.24



2450MHz - Head----2021.3.24



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Client

Sporton

Certificate No: D2600V2-1061 Nov20

CALIBRATION CERTIFICATE

Object D2600V2 - SN:1061

Calibration procedure(s) QA CAL-05.v11

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: November 26, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).

The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: BH9394 (20k)	31-Mar-20 (No. 217-03106)	Apr-21
Type-N mismatch combination	SN: 310982 / 06327	31-Mar-20 (No. 217-03104)	Apr-21
Reference Probe EX3DV4	SN: 7405	29-Jun-20 (No. EX3-7405_Jun20)	Jun-21
DAE4	SN: 601	02-Nov-20 (No. DAE4-601_Nov20)	Nov-21
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-20)	In house check: Oct-22
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-20)	In house check: Oct-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21
	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
access of the second	NAMES HOLD OF STREET	**************************************	y G
Approved by:	Katja Pokovic	Technical Manager	deles_

Issued: November 26, 2020

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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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%.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.6 ± 6 %	2.03 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	State	****

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	56.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.1 W/kg ± 16.5 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.6 Ω - 2.3 jΩ	
Return Loss	- 24.8 dB	

General Antenna Parameters and Design

ANTER WASSEN TO ME AND N	7/05/920
Electrical Delay (one direction)	1.149 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D2600V2-1061_Nov20 Page 4 of 6

DASY5 Validation Report for Head TSL

Date: 26.11.2020

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1061

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.03 \text{ S/m}$; $\varepsilon_r = 37.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7405; ConvF(7.54, 7.54, 7.54) @ 2600 MHz; Calibrated: 29.06.2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 02.11.2020

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 119.2 V/m; Power Drift = -0.04 dB

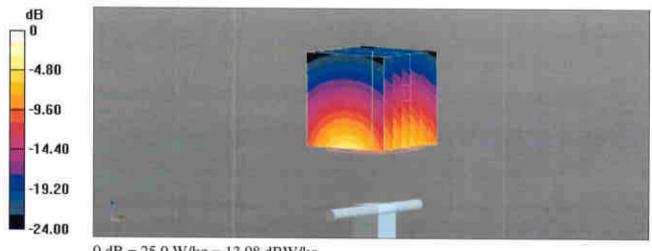
Peak SAR (extrapolated) = 30.9 W/kg

SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.37 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

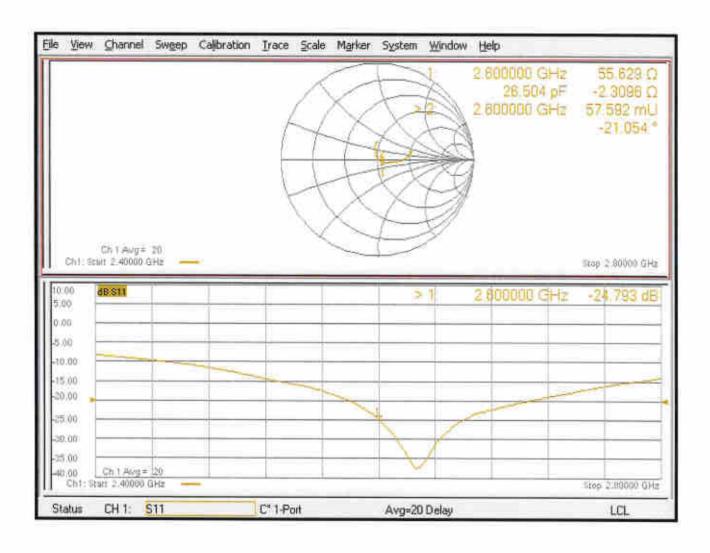
Ratio of SAR at M2 to SAR at M1 = 47%

Maximum value of SAR (measured) = 25.0 W/kg



0 dB = 25.0 W/kg = 13.98 dBW/kg

Impedance Measurement Plot for Head TSL



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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Client Sporton

Certificate No: DAE4-1338_Nov20

CALIBRATION CERTIFICATE

Object

DAE4 - SD 000 D04 BM - SN: 1338

Calibration procedure(s)

QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

November 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
Keithley Multimeter Type 2001	SN: 0810278	07-Sep-20 (No:28647)	Sep-21
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	09-Jan-20 (in house check)	In house check: Jan-21
Calibrator Box V2.1	SE UMS 006 AA 1002	09-Jan-20 (in house check)	In house check: Jan-21

Calibrated by:

Name

Function

Canorated by:

Adrian Gehring

Laboratory Technician

Approved by:

Sven Kühn

Deputy Manager

Issued: November 27, 2020

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Certificate No: DAE4-1338_Nov20

Page 1 of 5

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Glossary

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-1338 Nov20

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: $1LSB = 6.1 \mu V$, full range = -100...+300 mVLow Range: 1LSB = 61 nV, full range = -1.....+3 mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	×	Y	z
High Range	403.683 ± 0.02% (k=2)	404.259 ± 0.02% (k=2)	404.216 ± 0.02% (k=2)
		3.97760 ± 1.50% (k=2)	

Connector Angle

Connector Angle to be used in DASY system	240.0°±1°
-------------------------------------------	-----------

Certificate No: DAE4-1338_Nov20

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199991.64	-0.32	-0.00
Channel X + Input	20002.84	1.10	0.01
Channel X - Input	-20001.18	0.25	-0.00
Channel Y + Input	199992.25	0.36	0.00
Channel Y + Input	19999.51	-1.97	-0.01
Channel Y - Input	-20003.41	-1.82	0.01
Channel Z + Input	199993.13	0.96	0.00
Channel Z + Input	20000.60	-0.92	-0.00
Channel Z - Input	-20003.21	-1.57	0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001.46	0.54	0.03
Channel X + Input	201.63	0.29	0.14
Channel X - Input	-198.25	0.29	-0.15
Channel Y + Input	2001.07	0.18	0.01
Channel Y + Input	200.68	-0.49	-0.24
Channel Y - Input	-199.20	-0.52	0.26
Channel Z + Input	2000.41	-0.51	-0.03
Channel Z + Input	199.93	-1.28	-0.64
Channel Z - Input	-199,77	-1.08	0.54

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	7.08	5.84
	- 200	-6.14	-7.41
Channel Y	200	-21.12	-21.17
	- 200	20.10	20.00
Channel Z	200	-3.05	-2.98
	- 200	0.35	0.59

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (µV)	Channel Z (μV)
Channel X	200	-	3.84	-3.07
Channel Y	200	8.29		4.87
Channel Z	200	8.97	6.36	130

Certificate No: DAE4-1338_Nov20

4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16191	14008
Channel Y	16286	16249
Channel Z	16106	15261

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input $10M\Omega$

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.57	-0.12	1.34	0.31
Channel Y	-0.39	-0.99	0.23	0.27
Channel Z	-0.35	-1.05	0.40	0.28

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

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Client

Sporton

Certificate No: EX3-3857 Sep20

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3857

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date:

September 25, 2020

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

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

Calibration Equipment used (M&TE critical for calibration)

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

Name Function Signature Calibrated by: Leif Klysner Laboratory Technician Approved by: Katja Pokovic Technical Manager

Issued: September 30, 2020

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Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF

sensitivity in TSL / NORMx,y,z

DCP CF diode compression point crest factor (1/duty_cycle) of the RF signal

A, B, C, D

modulation dependent linearization parameters

Polarization @

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 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
- EC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,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.
- DCPx,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
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,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 ≤ 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 NORMx,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 NORMx (no uncertainty required).

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) ²) ^A	0.18	0.43	0.46	± 10.1 %
DCP (mV) ^B	99.3	100.5	102.2	2 10.1 /6

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	182.0	± 3.0 %	±4.7 %
		Y	0.0	0.0	1.0		178.6		- 111 70
		Z	0.0	0.0	1.0		188.1		

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).

^{*}The uncertainties of Norm A, Y, Z do not affect the E -field uncertainty inside 102 (355) age 3).

**B. Numerical linearization parameter: uncertainty not required.

**Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	
Mechanical Surface Detection Mode	-118.9
Optical Surface Detection Mode	enabled
	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	
Tip Diameter	9 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	1 mm
	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3857

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	9.50	9.50	9.50	0.32	0.99	± 12.0 9
835	41.5	0.90	9.18	9.18	9.18	0.45	0.80	± 12.0 %
900	41.5	0.97	9.10	9.10	9.10	0.47	0.80	± 12.0 %
1750	40.1	1.37	8.06	8.06	8.06	0.27	0.86	± 12.0 9
1900	40.0	1.40	7.81	7.81	7.81	0.37	0.86	± 12.0 9
2000	40.0	1.40	7.78	7.78	7.78	0.40	0.86	± 12.0 %
2300	39.5	1.67	7.56	7.56	7.56	0.31	0.92	± 12.0 9
2450	39.2	1.80	7.44	7.44	7.44	0.40	0.92	± 12.0 %
2600	39.0	1.96	7.19	7.19	7.19	0.37	0.92	± 12.0 %
3300	38.2	2.71	6.70	6.70	6.70	0.30	1.35	± 14.0 %
3500	37.9	2.91	6.67	6.67	6.67	0.30	1.35	± 14.0 %
3700	37.7	3.12	6.61	6.61	6.61	0.30	1.35	± 14.0 %
3900	37.5	3.32	6.58	6.58	6.58	0.40	1.50	± 14.0 %
4100	37.2	3.53	6.08	6.08	6.08	0.35	1.50	± 14.0 %
4200	37.1	3.63	5.99	5.99	5.99	0.35	1.50	± 14.0 %
4400	36.9	3.84	5.93	5.93	5.93	0.35	1.70	± 14.0 %
4600	36.7	4.04	5.91	5.91	5.91	0.40	1.70	± 14.0 %
4800	36.4	4.25	5.76	5.76	5.76	0.40	1.80	± 14.0 %
4950	36.3	4.40	5.45	5.45	5.45	0.40	1.80	± 14.0 %
5250	35.9	4.71	5.04	5.04	5.04	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.67	4.67	4.67	0.40	1.80	± 14.0 %
5750	35.4	5.22	4.93	4.93	4.93	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.

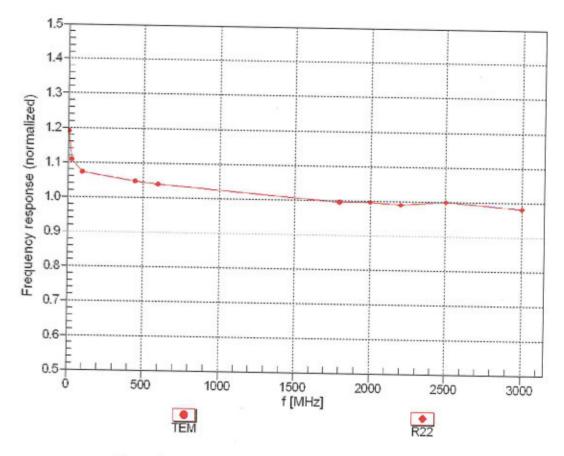
F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

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measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

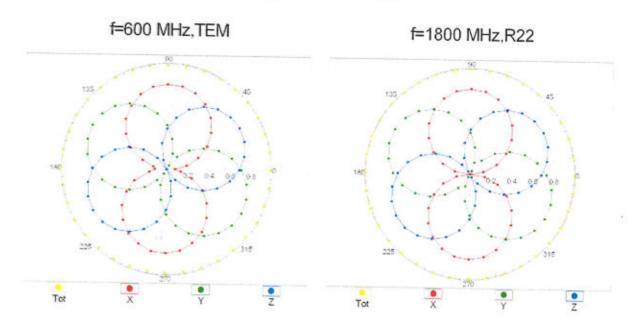
Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

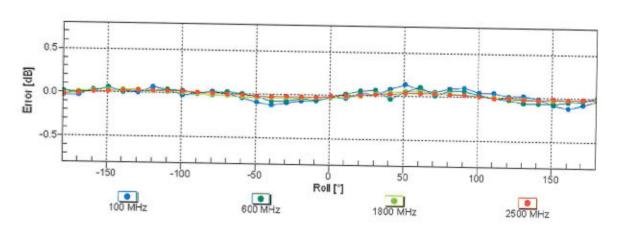
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

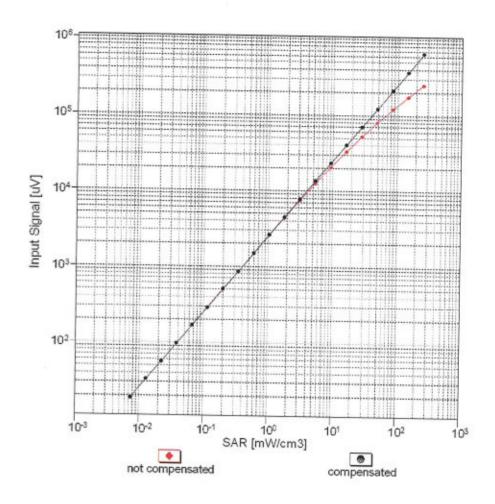
Receiving Pattern (φ), 9 = 0°

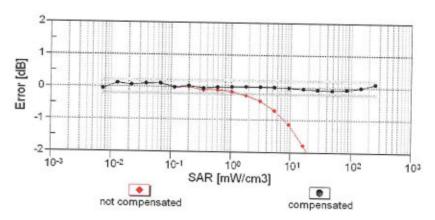




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

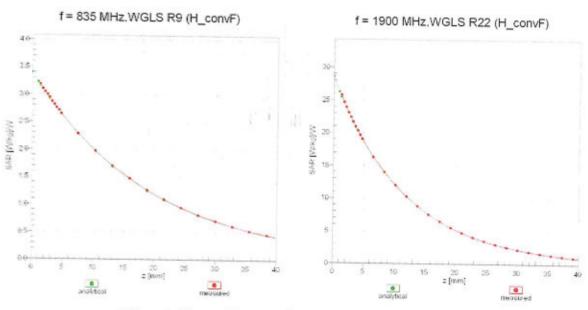
Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)



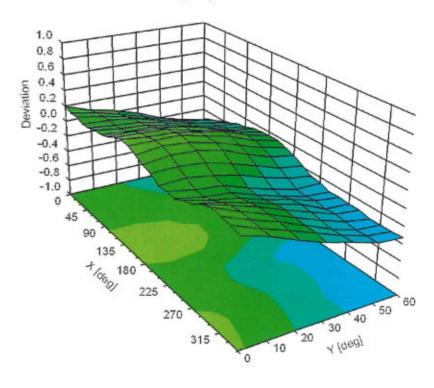


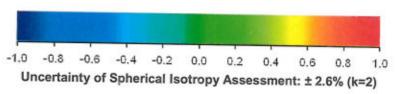
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (\$\phi\$, \$\theta\$), f = 900 MHz





Appendix E. Conducted RF Output Power Table

Report No. : FA161824-04

The detailed power table are shown as follows.

Sporton International (Kunshan) Inc.



Full Power Mode

Receiver	on&Receiver o	ff&Hotspot						
Burst	Burst Average Power (dBm)			Tune-up Frame-Average Power (dBm)				
128	189	251	Limit	128	189	251	Limit	
824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)	
32.87	32.89	32.87	33.50	23.87	23.89	23.87	24.50	
32.86	32.88	32.85	33.50	23.86	23.88	23.85	24.50	
30.78	30.83	30.72	31.00	24.78	24.83	24.72	25.00	
28.73	28.95	28.47	29.00	24.47	24.69	24.21	24.74	
26.85	26.92	26.87	27.00	23.85	23.92	23.87	24.00	
25.86	26.17	25.68	27.00	16.86	17.17	16.68	18.00	
24.54	24.73	25.02	26.00	18.54	18.73	19.02	20.00	
22.14	22.37	22.41	23.00	17.88	18.11	18.15	18.74	
19.65	19.77	19.84	21.00	16.65	16.77	16.84	18.00	
	Burst . 128 824.2 32.87 32.86 30.78 28.73 26.85 25.86 24.54 22.14	Burst Average Powe 128 189 824.2 936.4 32.87 32.89 32.86 32.88 30.78 30.83 28.73 28.95 26.85 26.92 25.86 26.17 24.54 22.37	128 189 261 124.2 5.05.4 613.3 32.87 32.88 32.87 32.86 32.88 32.85 32.87 32.88 32.85 28.73 28.95 28.87 28.73 28.95 28.67 25.56 26.17 25.68 24.54 22.37 25.02 24.54 22.37 22.41 19.65 19.77 19.84	Burst Average Power (BEIT) Turn-up 128 189 251 Turn-up 148 189 251 (GEIT) 524 2 5364 84.8 (GEIT) 528 7 32.87 32.89 32.87 33.50 30.78 30.83 30.72 31.00 28.63 28.95 28.47 29.00 26.65 28.95 28.47 29.00 26.65 28.92 28.63 27.00 24.54 24.73 25.02 26.00 24.54 24.73 25.02 26.00 24.14 22.37 22.41 22.37 22.41 23.30 19.65 19.77 19.84 21.00	Burst Average Power (dBm) Time-up Firms 128 199 251 Limit 128 199 251 Limit 128 199 251 Limit 128 199 251 Limit 128 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199 199	Burst Average Power (dsm)	Burst Average Power (BBm)	

		Receiver on							
GSM1900	Burst.	Burst Average Power (dBm)			Tune-up Frame-Average Power (dBm)				
TX Channel	512	661	810	Limit	512	661	810	Limit	
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)	
GSM 1 Tx slot	29.61	29.79	29.83	30.50	20.61	20.79	20.83	21.50	
GPRS 1 Tx slot	29.59	29.77	29.82	30.50	20.59	20.77	20.82	21.50	
GPRS 2 Tx slots	27.52	27.54	27.38	29.00	21.52	21.54	21.38	23.00	
GPRS 3 Tx slots	26.06	26.03	25.89	27.00	21.80	21.77	21.63	22.74	
GPRS 4 Tx slots	23.97	23.97	23.83	25.00	20.97	20.97	20.83	22.00	
EDGE 1 Tx slot	26.63	26.25	26.63	27.00	17.63	17.25	17.63	18.00	
EDGE 2 Tx slots	24.81	24.33	24.81	25.50	18.81	18.33	18.81	19.50	
EDGE 3 Tx slots	22.83	22.49	22.83	23.50	18.57	18.23	18.57	19.24	
EDGE 4 Tx slots	20.70	20.47	20.71	21.50	17.70	17.47	17.71	18.50	

			Receiver on			Receiver	Receiver on&Receiver off&Hotspot			
	Band		WCDMA II		_	WCDMA V			_	
	TX Channel	9262	9400	9538	Tune-up Limit	4132	4182	4233	Tune-up Limit	
	Rx Channel	9662	9800	9938	(dBm)	4357	4407	4458	(dBm)	
Fre	equency (MHz)	1852.4	1880	1907.6	(ubiii)	826.4	836.4	846.6	(GDIII)	
3GPP Rel 99	AMR 12.2Kbps	23.07	23.33	22.98	24.00	23.30	23.40	23.20	24.00	
3GPP Rel 99	RMC 12.2Kbps	23.09	23.34	22.97	24.00	23.31	23.41	23.23	24.00	
3GPP Rel 6	HSDPA Subtest-1	22.44	22.40	22.31	23.00	22.23	22.13	21.98	23.00	
3GPP Rel 6	HSDPA Subtest-2	22.33	22.17	22.23	23.00	21.96	21.87	21.73	23.00	
3GPP Rel 6	HSDPA Subtest-3	22.02	22.13	22.04	22.50	21.45	21.50	21.62	22.50	
3GPP Rel 6	HSDPA Subtest-4	21.94	21.85	21.79	22.50	21.36	21.40	21.52	22.50	
3GPP Rel 8	DC-HSDPA Subtest-1	22.33	22.37	22.20	23.00	22.10	22.13	21.91	23.00	
3GPP Rel 8	DC-HSDPA Subtest-2	22.24	22.06	22.12	23.00	21.92	21.87	21.63	23.00	
3GPP Rel 8	DC-HSDPA Subtest-3	22.01	22.02	21.99	22.50	21.41	21.36	21.49	22.50	
3GPP Rel 8	DC-HSDPA Subtest-4	21.86	21.76	21.76	22.50	21.23	21.39	21.49	22.50	
3GPP Rel 6	HSUPA Subtest-1	22.12	21.81	21.71	23.00	22.14	21.83	21.93	23.00	
3GPP Rel 6	HSUPA Subtest-2	20.34	20.37	20.30	21.00	20.23	20.28	20.06	21.00	
3GPP Rel 6	HSUPA Subtest-3	20.80	21.02	20.96	22.00	20.60	20.50	20.90	22.00	
3GPP Rel 6	HSUPA Subtest-4	20.39	20.18	20.24	21.00	20.16	20.20	20.06	21.00	
3GPP Rel 6	HSUPA Subtest-5	22.40	22.45	22.41	23.00	22.40	22.50	22.14	23.00	
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.25	19.38	19.35	20.50	19.19	19.26	19.29	20.50	



		Ba	nd 2 (1	1900M	Hz Ba	ınd)		
				Ceiver		Power		
SW (MHz)	Modulation	RB Size	RB Offset	Low Ch. / Freq. 18700	Middle Ch. / Freq. 18900	High Ch. / Freq. 19100	Tune-up limit (dBm)	
20	Frequen	cy (MHz)	0	1860	1880	1900	(dani)	
20	QPSK QPSK	1	49 99	23.17	23.31	23.26	24	0
20	QPSK QPSK	50 50	0 24	22.64 22.69	22.93 22.54	22.56 22.63	23	
20 20	QPSK QPSK	50 100	50 0	22.46 22.79	22.48 22.86	22.70 22.81	23	1
20 20	16QAM 16QAM	1	0 49	22.59 22.48	22.69 22.55	22.57 22.48	23	1
20 20	16QAM 16QAM	1 50	99 0	22.41 21.76	22.65 21.98	22.52		
20 20	16QAM 16QAM	50 50	24 50	21.72	21.86 21.93	21.69 21.72	22	2
20 20	16QAM 64QAM	100	0	21.58 21.00	21.83 21.35	21.64 21.25		
20 20	64QAM	1	49 99	21.24	21.09	21.39	22	2
20 20	64QAM 64QAM 64QAM	50 50	0 24	20.29 20.46	20.57	20.36	21	3
20 20	64QAM 64QAM	50 100	50 0	20.23 20.38 18675	20.55 20.56	20.37		
	Che	nnel cy (MHz)		18675 1857.5	18900 1880	19125 1902.5	Tune-up limit (dBm)	MPR (dB)
15 15	QPSK QPSK	1	0 37	23.05 22.90	23.39	23.38 23.12	24	0
15 15	QPSK QPSK	1 36	74 0	22.95 22.48	23.23 22.70	22.95 22.33		
15 15	QPSK QPSK	36 36	20 39	22.48 22.20	22.31 22.31	22.40 22.49	23	1
15 15	QPSK 16QAM	75 1	0	22.55 22.42	22.70 22.43	22.58 22.30		
15 15	16QAM 16QAM	1	37 74	22.22 22.16	22.29 22.43	22.21 22.27	23	1
15 15	16QAM 16QAM	36 36	0 20	21.49 21.46	21.84 21.69	21.49 21.47	22	2
15 15	16QAM 16QAM	36 75	39 0	21.63 21.40	21.68 21.63	21.47 21.40	1	•
15 15	64QAM 64QAM	1	0 37	20.73	21.20 20.82	21.11	22	2
15 15	64QAM 64QAM 64QAM	1 36	74 0	20.82	20.97 20.41	20.86		
15 15	64QAM	36 36	20 39	20.21	20.32 20.38	20.17	21	3
15	64QAM Che	75 innel	0	20.23 18650	20.31	20.52 19150	Tune-up	MPR (dB)
10	QPSK	cy (MHz)	0	1855 23.09	1880 23.45	1905 23.41	limit (dBm)	
10 10	QPSK QPSK	1	25 49	23.07	23.13 23.23	23.04	24	0
10 10	QPSK QPSK	25 25	12	22.49 22.55	22.56 22.37	22.37 22.46	23	1
10 10	QPSK QPSK	25 50	25 0	22.34 22.55	22.25 22.67	22.47 22.56	23	1
10 10	16QAM 16QAM	1	0 25	22.35 22.31	22.44 22.42	22.41 22.27	23	1
10 10	16QAM 16QAM	1 25	49 0	22.26 21.61	22.38 21.82	22.33 21.45		
10 10	16QAM 16QAM	25 25	12 25	21.51 21.56	21.66 21.69	21.49 21.57	22	2
10 10	16QAM 64QAM	50 1	0	21.33 20.80	21.60 21.15	21.38		
10 10	64QAM 64QAM	1	25 49	21.01 20.84	20.88	21.13 20.87	22	2
10 10	64QAM 64QAM	25 25	0 12	20.08	20.43	20.13		
10 10	64QAM 64QAM	25 50	25 0	19.98	20.35	20.19	21	3
	Che	innel cy (MHz)		18625 1852.5	18900 1880	19175 1907.5	Tune-up limit (dBm)	MPR (dB)
5 5	QPSK QPSK	1	0 12	23.11 22.96	23.38 23.14	23.35 23.10	24	0
5	QPSK QPSK	1 12	24 0	22.96 22.47	23.31	23.01		
5	QPSK QPSK	12 12	7	22.44 22.31	22.31 22.33	22.39 22.52	23	- 1
5	QPSK 16QAM	25 1	0	22.64 22.32	22.68 22.52	22.67 22.37		
5	16QAM 16QAM	1 1	12 24	22.31 22.21	22.38 22.43	22.24 22.36	23	1
5	16QAM 16QAM	12 12	7	21.59 21.56	21.80 21.64	21.55 21.43		
5	16QAM 16QAM	12 25	13	21.63 21.40	21.73 21.68	21.47	22	2
5	64QAM 64QAM	1	0 12	20.86 21.06	21.10 20.95	21.04	22	2
5	64QAM 64QAM	1 12	24 0	20.93 20.10	20.89 20.37	20.99 20.14		
5	64QAM 64QAM	12 12	7	20.21	20.28	20.18	21	3
5	64QAM Che	25 innel	0	20.14 18615	20.34 18900	20.53 19185	Tune-up	MPR
3	OPSK	cy (MHz)	0	1851.5 23.04	1880 23.37	1908.5	(dBm)	(dB)
3	QPSK QPSK	1	8	22.95 23.01	23.07	23.02 23.03	24	0
3	QPSK QPSK	8	0	22.50 22.52	22.75 22.27	22.31		
3	QPSK QPSK	8 15	7	22.28 22.59	22.33 22.60	22.45 22.55	23	1
3	16QAM 16QAM	1	0 8	22.45 22.32	22.50 22.34	22.35 22.31	23	1
3	16QAM 16QAM	1 8	14 0	22.18 21.54	22.42 21.82	22.34 21.46		
3	16QAM 16QAM	8	4 7	21.54 21.57	21.62	21.43 21.56	22	2
3	16QAM 64QAM	15	0	21.35	21.62	21.37		
3	64QAM	1	8 14	21.02 20.83	20.87 21.01	21.24 20.93	22	2
3	64QAM 64QAM 64QAM	8	0	20.14	20.42	20.13 20.24		
3	64QAM 64QAM	8 15	7	20.05	20.39	20.14	21	3
	Che Frequen	innel cy (MHz)		18607 1850.7	18900 1880	19193 1909.3	Tune-up limit (dBm)	MPR (dB)
	QPSK QPSK QPSK	1	0	23.00 23.05	23.44	23.30 23.12	TOSHIII	
1.4		- 1	5	23.02 22.50	23.27	23.00	24	0
1.4	QPSK QPSK			22.51	22.30	22.38		
1.4 1.4 1.4 1.4	QPSK QPSK	3	1 3		22 23	22.54		
1.4 1.4 1.4 1.4 1.4 1.4	QPSK QPSK QPSK QPSK		3	22.20 22.58	22.23 22.61 22.55	22.54 22.58 22.37	23	1
1.4 1.4 1.4 1.4	QPSK QPSK QPSK	3	3	22.20	22.23 22.61 22.55 22.41 22.52	22.54 22.58 22.37 22.35 22.29		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM	3	3 0 0 3	22.20 22.58 22.35 22.31	22.61 22.55 22.41 22.52 21.81	22.58 22.37 22.35	23	1
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	3 3 6 1	3 0 0 3 5 0	22.20 22.58 22.35 22.31 22.23 21.62 21.58 21.56 21.38	22.61 22.55 22.41 22.52 21.81 21.60 21.78 21.70	22.58 22.37 22.35 22.29 21.52 21.53 21.59 21.44	23	1
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	3 3 6 1 1 1 3 3	3 0 0 3 5 0 1	22.20 22.58 22.35 22.31 22.23 21.62 21.58 21.56 21.38 20.82 21.01	22.61 22.55 22.41 22.52 21.81 21.60 21.78 21.70 21.17 20.82	22.58 22.37 22.35 22.29 21.52 21.53 21.59 21.44 21.05		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	3 3 6 1 1 1 3 3 3 6	3 0 0 3 5 0 1 3 0	22.20 22.58 22.35 22.31 22.23 21.62 21.58 21.56 21.38 20.82	22.61 22.55 22.41 22.52 21.81 21.60 21.78 21.70 21.17	22.58 22.37 22.35 22.29 21.52 21.53 21.59 21.44	23	1

	Rece			(Cellu			ot on	
w [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle Ch. / Freq.	Power High		
				Ch. / Freq. 20450	Ch. / Freq. 20525	Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Erecuso	nnes		829	836.5	20600 844	(dBm)	
10	Frequen	1	0	23.37	23.47	23.27		
10	QPSK	1	25	23.36	23.30	23.38	24	0
	QPSK		49	23.26	23.32	23.30	1	
10	QPSK	25	0	22.32	22.42	22.37		
10	QPSK	25	12	22.28	22.36	22.32	23	- 1
10	QPSK QPSK	25	25 0	22.38	22.34	22.29		
10	QPSK 16QAM	50	0	22.34	22.37	22.27		
10	16QAM	+	25	22.97	22.77	22.91	23	- 1
10	160AM	-	49	22.81	22.91	22.91	23	
10	16QAM	25	0	21.34	21.29	21.32		
10	16QAM	25	12	21.30	21.33	21.46	22	2
	16QAM	25	25	21.28	21.33	21.28	- 22	
10	16QAM	50	0	21.31	21.32	21.45		
10	64QAM 64QAM	1	0 25	21.47	21.48	21.20	22	2
10	64QAM	- 1	49	21.29	21.42	21.30	22	2
10	64CAM	25	49	20.26	20.54	21.38		
10	64OAM	25	12	20.29	20.46	20.28		
10	64QAM	25	25	20.47	20.35	20.41	21	3
10	64QAM	50	0	20.25	20.35	20.18		
	Cha	rnel		20425	20525	20625	Tune-up	MPR
	Frequen	cy (MHz)		826.5	836.5	846.5	(dBm)	
5	QPSK	1	0	22.70	22.89	22.60		
5	QPSK	1	12	22.73	22.97	22.80	24	0
	QPSK	1	24	22.94	23.02	22.83		
5	QPSK	12	0	21.63	22.11	21.94		
- 5	QPSK	12	7	21.68	21.81	21.64	23	- 1
5	QPSK QPSK	12 25	13	21.92	21.93 21.85	21.98 21.68		
5	16QAM	1	0	22.37	22.31	22.23		
5	16QAM	-	12	22.49	22.53	22.32	23	- 1
5	16QAM	1	24	22.22	22.29	22.30		
5	16QAM	12	0	20.82	20.86	21.01		
5	16QAM	12	7	20.68	20.78	20.77	22	2
5	16QAM	12	13	20.65	20.69	20.87	22	-
	16QAM	25	0	21.01	20.66	20.88		
	64QAM	1	0	20.98	21.09	20.70		
5	64QAM 64QAM	1	12	20.85	20.80	20.75	22	2
5				20.77	20.91	20.72		
5	64QAM 64QAM	12	7	19.87 19.99	20.20	19.85		
-	64QAM	12	13	20.03	19.81	20.05	21	3
5	64QAM	25	0	19.78	19.96	19.60		
_	Cha	nnel		20415	20525	20635	Tune-up	MPR
	Frequen	cy (MHz)		825.5	836.5	847.5	limit (dDm)	MPR (dB)
3	OPSK		0	22.94	22.92	22.69	toons	
	QPSK		8	22.75	22.96	23.05	24	0
	QPSK QPSK	1	14	22.58	22.64	22.85		
3		8	0	21.97	21.84	22.05		
3	QPSK QPSK	8	7	21.97	21.86 21.69	21.91	23	- 1
3	QPSK	15	6	21.75	21.69	21.84		
3	16QAM	10	0	22.32	22.18	22.38		
3	16QAM	1	8	22.24	22.10	22.30	23	1
3	16QAM	1 -	14	22.42	22.29	22.46		
3	16QAM	8	0	21.01	20.67	20.90		
3	16QAM	8	- 4	20.62	20.90	21.00	22	2
	16QAM	8	- 7	20.90	21.02	20.59	22	2
3	16QAM	15	0	20.68	21.01	21.13		
3	64QAM	1	0	20.89	20.90	20.56		
3	64QAM	1	8	20.89	20.81	20.74	22	2
3	64QAM 64QAM	8	14	20.84 19.82	21.04 19.98	20.98		
3	64QAM 64QAM	8	4	19.82	19.98	19.79 19.74		
3	64QAM	8	7	19.67	19.88	19.74	21	3
3	64QAM	15	0	19.90	20.04	19.58		
	Cha	rnel		20407	20525	20643	Tune-up	MPR
	Frequen	cy (MHz)		824.7	836.5	848.3	(dBm)	MPR (dB)
1.4	QPSK		0	23.37	23.17	23.26		
1.4	QPSK	1	3	23.34	23.16	23.28		
1.4	QPSK	1	5	23.31	23.16	23.27	24	0
1.4	QPSK QPSK	3	0	23.28	23.28	23.34		
		3	1 3	23.17	23.32	23.41		
	QPSK QPSK	3 6	3	23.12	23.33	23.42	23	1
1.4	16QAM	- 6 - 1	0	22.52	22.34	22.29	23	1
1.4		1	3	23.00	22.69	22.61		
	160AM			22.62	22.70	22.63	23	1
1.4 1.4	16QAM	1						
1.4 1.4 1.4	16QAM 16QAM 16QAM		0	22.02	22.74	22.51	2.5	
1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM	1			22.74 22.69	22.51 22.60		
1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM	3 3	0 1 3	22.91 22.95 22.88	22.69 22.69	22.60 22.56		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM	3	0 1 3 0	22.91 22.95 22.88 21.30	22.69 22.69 21.11	22.60 22.56 21.11	22	2
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	1 3 3 3 6	0 1 3 0	22.91 22.95 22.88 21.30 21.53	22.69 22.69 21.11 21.59	22.60 22.56 21.11 21.49		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	1 3 3 3 6	0 1 3 0	22.91 22.95 22.88 21.30 21.53 21.99	22.69 22.69 21.11 21.59 21.73	22.60 22.56 21.11 21.49 21.77		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM	1 3 3 3 6 1	0 1 3 0 0 3 5	22.91 22.95 22.88 21.30 21.53 21.99 21.68	22.69 22.69 21.11 21.59 21.73 21.83	22.60 22.56 21.11 21.49 21.77 21.60		
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM	1 3 3 3 6	0 1 3 0	22.91 22.95 22.88 21.30 21.53 21.99 21.68 21.88	22.69 22.69 21.11 21.59 21.73 21.83 21.82	22.60 22.56 21.11 21.49 21.77 21.60 21.48	22	2
1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM	1 3 3 3 6 1	0 1 3 0 0 3 5	22.91 22.95 22.88 21.30 21.53 21.99 21.68	22.69 22.69 21.11 21.59 21.73 21.83	22.60 22.56 21.11 21.49 21.77 21.60	22	2

Band 7 (2600MHz Band)												
			Re	ceiver	on							
	Modulation		RB Offset	Downer	Power Middle	Power						
			RIS Oliset	Low Ch. / Freq.	Ch. / Freq.	High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
	Cha Frequen			20850 2510	21100 2535	21350 2560						
20	QPSK	cy (MH2)	0	23.63	2535	23.33						
20	QPSK	1	49	23.66	23.39	23.58	24	0				
20	QPSK	1	99	23.55	23.27	23.49						
20 20	QPSK QPSK	50 50	0 24	22.37	22.71	22.35						
20	QPSK	50 50	24 50	22.38	22.43	22.36	23	1				
20	QPSK	100	0	22.17	22.20	21.76						
20	16QAM	- 1	ō	22.55	22.57	22.38						
20	16QAM	- 1	49	22.22	22.61	22.67	23	1				
20 20	16QAM 16QAM	50	99	22.65	22.32	22.38						
20	16QAM	50	24	21.67	21.38	21.46						
20	16QAM	50	50	21.21	21.54	21.27	22	2				
20	16QAM	100	۰	21.70	21.26	21.20						
20	64QAM	- 1	0	21.61	21.62	21.44						
20 20	64QAM 64QAM	1	49 99	21.64	21.39	21.62	22	2				
20	64QAM	50	0	20.43	20.69	20.37						
20	64QAM	50	24	20.32	20.44	20.41	21	3				
20	64QAM	50	50	20.26	20.72	20.40	21	3				
20	64QAM	100	0	20.11	20.33	20.15	Time-up					
	Cha	nnel		20825 2507.5	21100 2535	21375 2562.5	limit	MPR (dB)				
15	Frequen	cy (MHz)		2507.5	2535	2562.5	(dBm)	(ub)				
15	QPSK	1	37	22.53	22.79	22.78	24	0				
15	QPSK	1	74	22.84	22.55	22.82						
15	QPSK	36	0	21.71	21.80	21.69						
15	QPSK	36	20	21.80	21.79	21.85	23	1				
15 15	QPSK QPSK	36 75	39 0	21.56	21.92	21.73	_					
15	16OAM	75	0	21.61	21.60	21.20						
15	16QAM	1	37	21.09	21.65	21.09	23	1				
15	16QAM	1	74	22.05	21.80	21.79						
15	16QAM	36	۰	20.96	20.87	20.73						
15	16QAM	36	20	20.82	20.85	20.67	22	2				
15 15	16QAM 16QAM	36 75	39	20.50	20.82	20.70						
15	64QAM	1		20.85	21.01	20.58						
15	64QAM	1	37	21.06	20.75	20.98	22	2				
15	64QAM	1	74	20.89	20.82	21.05						
15	64QAM	36	0	19.86	20.10	19.77						
15	64QAM	36	20	19.74	19.95	19.87	21	3				
15 15	64QAM 64QAM	36 75	39 0	19.83 19.44	20.16 19.84	19.86 19.46						
	Cha			20800	21100	21400	Tune-up limit	MDD				
	Frequen	cy (MHz)		2505	2535	2565	limit (dDm)					
10	QPSK		0	23.10	23.13	22.77	100					
10	QPSK	- 1	25	23.03	22.86	23.09	24	0				
10	QPSK QPSK	1 25	49	22.99 21.80	22.66 21.97	22.79 21.80						
10	QPSK	25	12	21.90	21.97	21.68						
10	QPSK	25	25	21.60	21.94	21.81	23	1				
10	QPSK	50	0	21.46	21.51	21.14						
10	16QAM	1	0	21.90	21.84	21.84						
10	16QAM	1	25 49	21.93	21.90	22.16	23	1				
10	16QAM 16QAM	25	49	22.07	21.85	21.71						
10	16QAM	25	12	21.04	20.91	20.02						
10	16QAM	25	25	20.62	20.87	20.72	22	2				
10	16QAM	50	۰	20.43								
	64QAM				20.57	20.58						
			0	21.08	20.97	20.85						
10	64QAM	1	25	21.08 21.02	20.97	20.85	22	2				
				21.08	20.97	20.85	22	2				
10 10	64QAM 64QAM 64QAM 64QAM	1 1 25 25	25 49	21.08 21.02 20.85	20.97 20.73 20.61	20.85 20.97 20.98						
10 10 10 10	64QAM 64QAM 64QAM 64QAM	1 1 25 25 25	25 49 0 12 25	21.08 21.02 20.85 19.73 19.67 19.56	20.97 20.73 20.61 20.05 19.82 20.01	20.85 20.97 20.98 19.67 19.79 19.82	22	2				
10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25	25 49 0 12	21.08 21.02 20.85 19.73 19.67 19.56	20.97 20.73 20.61 20.05 19.82 20.01 19.75	20.85 20.97 20.98 19.67 19.79 19.82 19.62	21	3				
10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25 50	25 49 0 12 25	21.08 21.02 20.85 19.73 19.67 19.56 19.39	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100	20.85 20.97 20.98 19.67 19.79 19.82 19.62 21425		3 MPR				
10 10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM Cha	1 1 25 25 25 25 50	25 49 0 12 25 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535	20.85 20.97 20.98 19.67 19.79 19.82 19.62 21425 2567.5	21	3				
10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Cha Frequen	1 1 25 25 25 25 50	25 49 0 12 25 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.09	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20	20.85 20.97 20.98 19.67 19.79 19.82 19.62 21.425 2567,5	21	3 MPR (dB)				
10 10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequen QPSK QPSK	1 1 25 25 25 25 50 nnel cy (MHz)	25 49 0 12 25 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535	20.85 20.97 20.98 19.67 19.79 19.82 19.62 21425 2567.5	21 Tune-up limit (dBm)	3 MPR				
10 10 10 10 10 10 10 5 5 5	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequen QPSK QPSK QPSK	1 1 25 25 25 25 50 since! cy (MHz) 1 1 1 1 2	25 49 0 12 25 0 0 12 24 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.09 23.07 21.66	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.284 22.97 22.06	20.85 20.97 20.98 19.67 19.79 19.82 19.62 21.425 2567.5 22.71 23.00 22.80 21.69	21 Tune-up limit (dBm)	3 MPR (dB)				
10 10 10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequen QPSK QPSK QPSK QPSK QPSK	1 1 25 25 25 25 50 mnel cy (MHz) 1 1 1 1 2 12 12	25 49 0 12 25 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.09 23.10 23.10 21.86 21.83	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.06 21.88	20.85 20.97 20.98 19.67 19.79 19.82 19.82 21.425 2567.5 22.71 23.00 21.69 21.77	21 Tune-up limit (dBm)	3 MPR (dB)				
10 10 10 10 10 10 10 5 5 5 5	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Chi Chi QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 25 25 25 25 50 since! cy (MHz) 1 1 1 1 2	25 49 0 12 25 0 0 12 24 0 7	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.10 23.07 21.66 21.83 21.70	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.08	20.85 20.97 20.98 19.67 19.79 19.82 21425 2567.5 22.71 23.00 22.80 21.77 21.73	21 Tune-up limit (dBm)	MPR (dB)				
10 10 10 10 10 10 10 5 5 5 5 5	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequen QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 25 25 25 25 50 mnel cy (MHz) 1 1 1 1 2 12 12	25 49 0 12 25 0 0 12 24 0 7 7	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.09 23.10 23.07 21.68 21.83 21.70 21.48	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.06 21.88 22.05 21.53	20.85 20.97 20.98 19.67 19.79 19.82 19.82 21.425 2567.5 22.71 23.00 22.80 21.69 21.73 21.17 21.11	21 Tune-up limit (dBm)	MPR (dB)				
10 10 10 10 10 10 10 5 5 5 5	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Prequen QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1 1 25 25 25 25 50 mmel cy (MHz) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 49 0 12 25 0 0 12 24 0 7	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.10 23.07 21.66 21.83 21.70	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.08	20.85 20.97 20.98 19.67 19.79 19.82 21425 2567.5 22.71 23.00 22.80 21.77 21.73	21 Tune-up limit (dBm)	MPR (dB)				
10 10 10 10 10 10 10 5 5 5 5 5 5	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 9PSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK Q	1 1 25 25 25 25 50 mmel ccy (MHz) 1 1 1 1 2 12 12 25 1	25 49 0 12 25 0 0 12 24 0 7 7 13 0 0	21.08 21.02 20.85 19.73 19.56 19.39 20775 2502.5 23.07 21.66 21.83 21.70 21.48 21.83	20.97 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.06 21.88 22.05 21.53 22.03	20.85 20.97 20.98 19.67 19.79 19.82 19.82 21425 2567.5 22.71 23.00 22.80 21.89 21.77 21.73 21.11 21.90	21 Tune-up limit (dBm) 24	3 MPR (dB) 0				
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10 10 10 10 10 10 10 10 5 5 5 5 5 5 5 5	640AM 640AM 640AM 640AM 640AM Chi- Frequen 0PSK 0PSK 0PSK 0PSK 0PSK 0PSK 0PSK 160AM 160AM 160AM 160AM 160AM 160AM 160AM 160AM 160AM	1 1 1 2 25 25 25 30 annel cy (Mistr) 1 1 1 1 1 1 1 2 1 2 2 5 1 1 1 1 2 1 2 2 5 1 1 1 1	25 49 0 12 25 0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 0	21.08 21.02 20.85 19.73 19.67 19.56 19.39 20775 2502.5 23.09 23.10 23.07 21.66 21.83 21.66 22.13 21.15 20.67 20.67 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87 20.87	20.97 20.73 20.73 20.61 20.05 19.82 20.01 19.75 21100 2535 23.20 22.84 22.97 22.06 21.83 22.05 21.96 21.83 20.81 20.81 20.81 20.81 20.82 20.56 20.56 20.74 20.58	20.85 20.97 20.98 19.67 19.79 19.82 21.425 2567.5 22.71 23.00 22.80 21.60 21.77 21.73 21.77 21.73 21.96 21.96 20.95 20.73 20.95 20.73 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.95 20.9	21 Tune-up linit (d3m) 24 23 23 22 22	3 MPR (dB) 0 1 1 2 2 2				

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	Rece			Ceiver		Power		
BW (MHz)	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Frequen	nnei cy (MHz)		821.5	831.5	26965 841.5	(dBm)	` '
15 15	QPSK QPSK	1	0 37	23.37	23.45	23.33	24	0
15 15	QPSK QPSK	1 36	74 0	23.31	23.30	23.37		
15	QPSK	36	20	22.51	22.37	22.41	23	1
15	QPSK	75	0	22.31	22.42	22.39		
15 15	16QAM 16QAM	1	37	22.97 22.97	22.84 22.78	22.68 22.75	23	1
15	16QAM 16QAM	1 36	74	22.83	22.64 21.49	22.81		
15	16QAM 16QAM	36	20	21.48	21.43	21.45	22	2
15	16QAM	36 75	0	21.47	21.38	21.36		
15 15	64QAM 64QAM	1	37	21.47	21.54 21.50	21.35	22	2
15 15	64QAM 64QAM	1 36	74 0	21.19 20.47	21.40 20.55	21.47 20.48		
15	64QAM 64QAM	36	20	20.43	20.31	20.42	21	3
15	64QAM	75	0	20.48 20.42	20.39	20.42		
	Cha Frequen	nnel cy (MHz)		26740 819	26865 831.5	26990 844	limit (dBm)	MPR (dB)
10	QPSK	1	0	22.97 23.02	22.98 23.00	23.04 22.98	24	0
10	QPSK	1	49	23.02	22.82	22.97		
10	QPSK QPSK	25 25	12	22.19	22.18	21.91	23	1
10	QPSK QPSK	25 50	25 0	22.18	22.06	22.16	23	
10	16QAM	1	0	22.61	22.39	22.19	23	1
10	16QAM	1	49	22.57 22.42	22.45 22.20	22.29 22.40	23	
10 10	16QAM 16QAM	25 25	12	20.95 21.00	20.97	21.10	22	2
10 10	16QAM 16QAM	25 50	25 0	20.98 21.18	20.94	21.02	22	2
10	64QAM 64QAM	1	ŏ	21.17	21.07	20.97	22	2
10	64QAM		25 49	21.06 20.85	21.03 20.97	21.03 20.98	22	2
10	64QAM 64QAM	25 25	12	20.20 19.99	20.03 19.85	20.14		
10	64QAM	25 En	25	20.01	20.06	20.23	21	3
	Cha	nnel		26715	26965	27015	Tune-up limit	MPR (dB)
5	Frequen	cy (MHz)	0	816.5 22.94	831.5 23.05 22.99	846.5 22.81 23.09	(dBm)	
5	QPSK	1	12 24	22.98 22.84	22.99 22.88	23.09	24	0
5	QPSK	12	-	22.02	22.21	22.03		
5	QPSK QPSK	12	13	22.11 22.16	22.05 22.11	21.97 22.17	23	1
5	QPSK 16QAM	25 1	0	21.87	22.08 22.46	21.87		
5	16QAM	1	12	22.66 22.55	22.26 22.27	22.37 22.37	23	1
5	16QAM	12	- 0	20.97	21.07	21.07		
5	16QAM 16QAM	12	13	21.19	21.13	21.03 21.14	22	2
5 5	16QAM 64QAM	25 1	0	21.17 21.00	20.93 21.12	21.01 21.05		
5	64QAM	1	12	21.09 20.91	21.12 20.99	21.13 20.96	22	2
5	64QAM	12	ō	20.12	20.08	19.96		
5	64QAM 64QAM	12	13	20.05 20.02	20.03	19.89 20.24	21	3
5	64QAM Cha	25 nnel	0	20.12 26705	19.93 26865	20.00 27025	Tune-up	MPR
	Frequen	cy (MHz)		815.5	831.5	847.5	limit (dBm)	MPR (dB)
3	QPSK	1	8	22.88	23.16	22.88	24	0
3	QPSK QPSK	1 8	14	23.03 22.01 21.99		23.04		
3	QPSK	8	4	21.99	22.25 21.98 22.05	21.92 22.09 22.16	23	1
3	QPSK	15	ò	21.91	22.03	22.00		
3	16QAM 16QAM	1	8	22.15 22.54	22.42 22.49 22.15	22.31 22.36	23	1
3	16QAM 16QAM	1 8	14	21.15	21.00	22.33		
3	16QAM	8	4	21.04 21.03	20.96 21.03	21.04	22	2
3	16QAM	15	ò	21.10	20.88	21.00		
3	64QAM	1	8	21.07	21.06 21.10	20.91	22	2
3	64QAM 64QAM	1 8	14 0	20.89	21.06 20.05	21.00		
3	64QAM 64QAM	8	4 7	20.06 19.96	20.03	19.91 20.01	21	3
3	64QAM	15	ò	20.09	19.99	20.08	Timeste	
	Frequen	cy (MHz)		26697 814.7	26865 831.5	27033 848.3	limit (dBm)	MPR (dB)
1.4	QPSK QPSK	1	0	23.22	23.29 23.22	23.32		
1.4	QPSK	1 2	5	23.15	23.25	23.33	24	0
1.4	QPSK	3	1	23.03 23.05	22.88	22.91 22.93		
1.4	QPSK QPSK	3 6	3	22.99	22.82	22.89	23	1
1.4	16QAM 16QAM	1	0	22.06 22.79 22.79	21.82 22.60 22.61	22.44 22.37		
1.4	16QAM	1	5	22.79 22.72 22.07	22.57 21.97	22.41 21.89	23	1
1.4	16QAM 16QAM	3	1	22.07 22.13 22.08	21.97 22.03 21.93	21.89 21.89 21.83		
1.4	16QAM 16QAM	3	3		20.52	21.83	22	2
1.4	64QAM	1	0	20.82 21.80 21.74	21.68	21.34		
1.4	64QAM	1	5	21.74 21.82 21.05	21.57 21.51 20.97	21.41 21.48 20.78	22	2
1.4	64QAM 64QAM	3	0	21.20	20.97	20.78		•
1.4	64QAM	3	3	21.05 19.89	20.95 19.61	20.79 19.68	21	2
1.7	- CTG/W			10.00	10.01	10.00		,



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Cha Frequen			37850 2580	38000 2595	38150 2610		
20	QPSK	1	0	23.10	23.58	23.19		
20	QPSK	1	49	23.15	23.53	23.52	24	0
20	QPSK QPSK	1 50	99	23.32 22.36	23.34	23.35		
20	QPSK	50	24	22.30	22.47	22.33		
20	QPSK	50	50	22.37	22.44	22.43	23	1
20	QPSK	100	0	22.04	22.27	22.19		
20	16QAM 16QAM	1	0 49	22.45	22.63	22.54 22.22	23	1
20	16QAM	1	99	22.41	22.28	22.33	23	'
20	16QAM	50	0	21.53	21.54	21.82		
20	16QAM 16QAM	50	24	21.54	21.68	21.89	22	2
20	16QAM 16QAM	50 100	50 0	21.64 21.46	21.83	21.89		
20	64QAM	1	0	21.01	21.47	21.22		
20	64QAM	- 1	49	21.04	21.34	21.48	22	2
20	64QAM	1	99	21.39	21.24	21.42		
20	64QAM 64QAM	50 50	0 24	20.29	20.39	20.24		
20	64QAM	50	50	20.38	20.39	20.28	21	3
20	64QAM	100	0	20.08	20.22	20.30		
	Cha			37825	38000	38175	Tune-up limit	MPR
15	Frequen QPSK	cy (MHz)	0	2577.5	2595	2612.5 23.47	(dBm)	(dB)
15 15	QPSK QPSK	1	0 37	23.29 23.10	23.24	23.47	24	0
15	QPSK	1	74	23.10	23.07	23.51		ŭ
15	QPSK	36	0	22.14	22.39	22.59		
15	QPSK	36	20	22.40	22.20	22.37	23	1
15 15	QPSK QPSK	36 75	39 0	22.55 22.02	22.60 22.15	22.26 22.44		
15	16QAM	1	0	22.39	22.60	22.24		
15	16QAM	1	37	22.64	22.52	22.58	23	1
15	16QAM	1	74	22.28	22.54	22.73		
15	16QAM	36	0	21.15	21.52	21.62		
15 15	16QAM 16QAM	36 36	20 39	21.27 21.54	21.42 21.26	21.17 21.25	22	2
15	16QAM	75	0	21.14	21.46	21.58		
15	64QAM	1	0	21.24	21.22	21.47		
15	64QAM	1	37	21.11	21.17	21.29	22	2
15 15	64QAM 64QAM	1 36	74 0	21.03 20.16	20.97	21.07 20.53		
15	64QAM	36	20	20.40	20.18	20.33		
15	64QAM	36	39	20.59	20.55	20.22	21	3
15	64QAM	75	0	20.13	20.26	20.54		
	Cha Frequen			37800 2575	38000 2595	38200 2615	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	23.18	23.21	23.19	(4511)	(00)
10	QPSK	1	25	23.52	23.37	23.29	24	0
10	QPSK	1	49	23.22	23.24	23.36		
10 10	QPSK QPSK	25 25	0 12	22.28 22.46	22.42	22.29 22.42		
10	QPSK	25	25	22.40	22.34	22.58	23	1
10	QPSK	50	0	22.26	22.19	22.58		
10	16QAM	1	0	22.29	22.17	22.39		
10	16QAM	1 1	25	22.30	22.15	22.31	23	1
10 10	16QAM 16QAM	1 25	49 0	22.50 21.04	22.27 21.09	22.41 21.26		
10	16QAM	25	12	21.24	21.02	21.24	22	2
10	16QAM	25	25	21.26	21.11	21.30	22	2
10	16QAM	50	0	21.13	21.54	21.37		
10 10	64QAM 64QAM	1	0 25	21.63 21.49	21.25 21.35	21.15 21.28	22	2
10	64QAM	1	49	21.49	21.16	21.45		
10	64QAM	25	0	20.24	20.48	20.18		
10	64QAM	25	12	20.49	20.31	20.45	21	3
10 10	64QAM 64QAM	25 50	25 0	20.30 20.35	20.23	20.47 20.54		
.0	Cha			37775	38000	38225	Tune-up limit	MPR
	Frequen	cy (MHz)		2572.5	2595	2617.5	(dBm)	(dB)
5	QPSK	1	0	23.25	23.32	23.17	0.	
5 5	QPSK QPSK	1	12 24	23.52 23.57	23.41	23.54 23.55	24	0
5	QPSK	12	0	22.61	22.55	23.55		
5	QPSK	12	7	22.49	22.49	22.34	23	1
5	QPSK	12	13	22.34	22.69	22.45	23	
5	QPSK 160AM	25	0	22.31	22.58	22.73 22.44		
5 5	16QAM 16QAM	1	0 12	22.54 22.57	22.59 22.50	22.44	23	1
5	16QAM	1	24	22.55	22.48	22.43		
5	16QAM	12	0	21.54	21.59	21.54		
5	16QAM	12	7	21.40	21.48	21.59	22	2
5 5	16QAM 16QAM	12 25	13 0	21.59 21.33	21.48 21.71	21.42 21.54		
5	64QAM	1	0	21.33	21.71	21.32		
5	64QAM	1	12	21.45	21.47	21.65	22	2
5	64QAM	1	24	21.54	21.35	21.59		
5	64QAM 64QAM	12 12	0	20.56 20.53	20.52	20.62		
			7	40.03				
5 5							21	3
5 5 5	64QAM 64QAM	12 25	13	20.38 20.39	20.81	20.37	21	3

		Re			11 (2.60 eceiver) otspot	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)
	Cha Frequen			39750 2506	40185 2549.5	40620 2593	41055 2636.5	41490 2680		
20	QPSK	1	0	23.10	23.21	23.35	23.12	22.92		
20	QPSK	1	49	22.97	23.09	23.22	23.05	23.22	24	0
20	QPSK QPSK	50	99	22.89	23.02	23.11	22.95	23.13		
20	OPSK	50	24	21.21	22.17	22.38	22.09	22.04		
20	QPSK	50	50	21.94	22.06	22.20	22.03	22.14	23	1
20	QPSK	100	0	21.52	21.61	21.70	21.39	21.55		
20	16QAM 16QAM	1	0 49	22.28	22.44	22.68	22.34	22.42	23	1
20	16QAM	1	99	22.36	22.40	22.49	22.23	22.42	23	'
20	16QAM	50	0	21.33	21.34	21.43	21.29	21.10		
20	16QAM	50	24	20.95	21.11	21.39	21.03	21.37	22	2
20	16QAM 16QAM	50 100	50 0	21.10	21.21	21.32	21.04	21.28		
20	64QAM	1	0	21.11	21.07	21.10	21.33	20.73		
20	64QAM	1	49	21.00	21.11	21.35	21.04	21.40	22	2
20	64QAM	1	99	20.92	21.24	21.25	21.11	21.18		
20	64QAM 64QAM	50 50	0 24	20.30	20.20	20.49	20.16	20.11		
20	64QAM 64QAM	50 50	24 50	20.00	20.29	20.24	20.14	20.33	21	3
20	64QAM	100	0	20.05	20.12	20.30	20.16	19.92		
	Cha			39725	40173	40620	41068	41515	Tune-up limit	MPR
	Frequen	cy (MHz)		2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	22.95	23.04	23.20	23.05	22.83	24	0
15 15	QPSK QPSK	1	37 74	22.84 22.72	23.04 22.83	23.14	22.88 22.73	23.01 22.92	24	U
15	QPSK	36	0	21.98	22.05	22.24	22.02	21.88		
15	QPSK	36	20	21.76	21.96	21.99	21.88	22.01	23	1
15	QPSK	36	39	21.78	22.00	21.95	21.93	22.07	2.5	
15	QPSK 16QAM	75	0	21.36 22.14	21.47	21.59 22.45	21.43	21.39 22.30		
15 15	16QAM 16QAM	1	0 37	22.14	22.29	22.45	22.21	22.30	23	1
15	16QAM	1	74	22.19	22.24	22.17	22.09	22.31		
15	16QAM	36	0	21.26	21.24	21.38	21.09	20.94		
15	16QAM	36	20	20.89	21.03	21.18	20.97	21.31	22	2
15	16QAM 16QAM	36	39	20.89	20.97	21.08	20.92	21.18		_
15 15	16QAM 64QAM	75 1	0	20.73 21.05	20.95 21.14	20.85 21.28	20.48	20.58 20.99		
15	64QAM	1	37	20.94	21.01	21.21	20.91	21.16	22	2
15	64QAM	1	74	20.83	21.04	21.17	21.01	21.08		
15	64QAM	36	0	20.19	20.01	20.42	20.11	19.94		
15	64QAM	36	20	20.05	20.19	20.14	19.99	20.11	21	3
15 15	64QAM 64QAM	36 75	39 0	20.01 19.92	20.07	20.22	19.99 20.00	19.92 19.70		
10	Cha		U	39700	40160	40620	41080	41540	Tune-up limit	MPR
	Frequen	cy (MHz)		2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	22.90	23.09	23.13	22.88	22.75		
10	QPSK QPSK	1	25 49	22.82	23.02	23.05	22.81	23.13 22.95	24	0
10 10	OPSK	25	0	22.67 21.97	22.91 22.02	22.87 22.21	22.72 21.99	21.98		
10	QPSK	25	12	21.82	21.89	21.91	21.99	21.89	23	1
10	QPSK	25	25	21.77	22.01	22.00	21.80	21.95	23	,
10	QPSK	50	0	21.35	21.39	21.48	21.43	21.36		
10 10	16QAM 16QAM	1	0 25	22.04 22.32	22.20	22.53 22.44	22.28 22.18	22.36 22.24	23	1
10	16QAM	1	49	22.32	22.23	22.44	22.10	22.24	2.5	
10	16QAM	25	0	21.23	21.10	21.27	21.20	20.89		
10	16QAM	25	12	20.82	20.94	21.30	20.90	21.26	22	2
10	16QAM 16QAM	25	25	20.88	21.08	21.16	20.90	21.09		
10	16QAM 64QAM	50 1	0	20.70 21.04	20.85	20.86 21.33	20.56 21.18	20.61 20.89		
10	64QAM	1	25	20.84	20.99	21.20	20.92	21.26	22	2
10	64QAM	1	49	20.83	21.04	21.10	21.02	20.98		
10	64QAM	25	0	20.07	19.97	20.28	20.01	19.90		
10	64QAM	25 25	12	19.86	20.11	20.00	19.91	20.22	21	3
10	64QAM	50 50	25 0	19.98	19.85	20.21	19.96	19.91		
	Cha			39675	40148	40620	41093	41565	Tune-up limit	MPR
	Frequen	cy (MHz)		2498.5	2545.8	2593	2640.30	2687.5	(dBm)	(dB)
5	QPSK	1	0	22.85	23.08	23.28	22.99	22.78		^
5 5	QPSK QPSK	1	12 24	22.92 22.78	22.97 22.83	22.99 23.05	22.96 22.83	23.15 22.98	24	0
5	QPSK	12	0	22.78	21.95	22.32	21.91	21.97		
5	QPSK	12	7	21.82	21.86	22.00	21.90	21.94	00	
5	QPSK	12	13	21.82	21.94	22.07	21.83	21.99	23	1
5	QPSK	25	0	21.32	21.39	21.63	21.52	21.33		
5 5	16QAM 16QAM	1	0 12	22.05 22.27	22.22 22.35	22.49 22.43	22.11 22.11	22.25 22.34	23	1
5	16QAM 16QAM	1	12 24	22.27	22.35	22.43	22.11	22.34	23	
5	16QAM	12	0	21.08	21.21	21.33	21.09	20.92		
5	16QAM	12	7	20.83	20.95	21.19	20.86	21.24	22	2
5	16QAM	12	13	20.92	21.01	21.27	20.83	21.20	22	2
	16QAM	25	0	20.73	20.89	20.98	20.63	20.50		
5					21.08	21.30	21.08	20.80		
5	64QAM	1				21 11	20.80		22	2
		1 1 1	12 24	20.92	20.93	21.11 21.20	20.80 20.94	21.23 21.11	22	2
5 5	64QAM 64QAM	1	12	20.92	20.93			21.23	22	2
5 5 5	64QAM 64QAM 64QAM	1	12 24	20.92 20.83	20.93 21.07	21.20	20.94	21.23 21.11	22	3

20.08

19 97

19.81



Reduced Power Mode

		Receiver off						
GSM1900	Burst /	Burst Average Power (dBm)			e-up Frame-Average Power (dBm)			Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	27.57	27.26	27.15	28.50	18.57	18.26	18.15	19.50
GPRS 1 Tx slot	27.39	27.22	27.12	28.50	18.39	18.22	18.12	19.50
GPRS 2 Tx slots	25.24	25.36	25.23	27.00	19.24	19.36	19.23	21.00
GPRS 3 Tx slots	24.45	24.33	24.25	25.00	20.19	20.07	19.99	20.74
GPRS 4 Tx slots	21.18	21.18	21.07	23.00	18.18	18.18	18.07	20.00
EDGE 1 Tx slot	24.63	24.41	24.51	25.00	15.63	15.41	15.51	16.00
EDGE 2 Tx slots	22.71	22.63	22.52	23.50	16.71	16.63	16.52	17.50
EDGE 3 Tx slots	20.31	20.69	20.57	21.50	16.05	16.43	16.31	17.24
EDGE 4 Tx slots	18.77	18.65	18.53	19.50	15.77	15.65	15.53	16.50

		Hotspot on						
GSM1900	Burst	Burst Average Power (dBm)			Tune-up Frame-Average Power (dBm)			Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	24.91	24.96	24.82	26.00	15.91	15.96	15.82	17.00
GPRS 1 Tx slot	24.90	24.95	24.81	26.00	15.90	15.95	15.81	17.00
GPRS 2 Tx slots	22.83	22.89	22.73	24.50	16.83	16.89	16.73	18.50
GPRS 3 Tx slots	20.92	20.92	20.79	22.50	16.66	16.66	16.53	18.24
GPRS 4 Tx slots	18.77	18.79	18.69	20.50	15.77	15.79	15.69	17.50
EDGE 1 Tx slot	20.81	20.79	21.16	22.50	11.81	11.79	12.16	13.50
EDGE 2 Tx slots	19.21	19.16	19.59	21.00	13.21	13.16	13.59	15.00
EDGE 3 Tx slots	17.04	17.05	17.35	19.00	12.78	12.79	13.09	14.74
EDGE 4 Tx slots	15.37	15.34	15.76	17.00	12.37	12.34	12.76	14.00

	1		Receiver off		
	Band		WCDMA II		_
	TX Channel	9262	9400	9538	Tune-up
	Rx Channel	9662	9800	9938	(dBm)
Fre	equency (MHz)	1852.4	1880	1907.6	(GDIII)
3GPP Rel 99	AMR 12.2Kbps	21.34	21.35	21.31	22.00
3GPP Rel 99	RMC 12.2Kbps	21.36	21.37	21.33	22.00
3GPP Rel 6	HSDPA Subtest-1	21.00	20.65	20.61	21.00
3GPP Rel 6	HSDPA Subtest-2	20.67	20.28	20.25	21.00
3GPP Rel 6	HSDPA Subtest-3	20.50	20.46	20.40	20.50
3GPP Rel 6	HSDPA Subtest-4	20.41	20.12	20.09	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.34	20.21	20.19	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.31	20.15	20.16	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.13	20.19	20.16	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.91	19.96	20.01	20.50
3GPP Rel 6	HSUPA Subtest-1	19.13	19.16	19.18	21.00
3GPP Rel 6	HSUPA Subtest-2	18.27	18.44	18.27	19.00
3GPP Rel 6	HSUPA Subtest-3	18.17	18.39	18.25	20.00
3GPP Rel 6	HSUPA Subtest-4	18.37	18.42	18.16	19.00
3GPP Rel 6	HSUPA Subtest-5	20.70	20.50	20.50	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.23	17.31	17.34	18.50

	Band		WCDMA II		
	TX Channel	9262	9400	9538	Tune-up Limit
	Rx Channel	9662	9800	9938	(dBm)
Fr	equency (MHz)	1852.4	1880	1907.6	(45)
3GPP Rel 99	AMR 12.2Kbps	18.30	18.53	18.53	19.00
3GPP Rel 99	RMC 12.2Kbps	18.31	18.54	18.52	19.00
3GPP Rel 6	HSDPA Subtest-1	17.31	17.51	17.62	18.00
3GPP Rel 6	HSDPA Subtest-2	17.77	17.32	17.42	18.00
3GPP Rel 6	HSDPA Subtest-3	17.36	17.56	17.61	17.50
3GPP Rel 6	HSDPA Subtest-4	17.05	17.11	17.17	17.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.33	17.23	17.15	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.21	17.14	17.11	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.24	17.23	17.13	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.92	16.89	16.75	17.50
3GPP Rel 6	HSUPA Subtest-1	16.34	16.46	16.29	18.00
3GPP Rel 6	HSUPA Subtest-2	15.37	15.28	15.46	16.00
3GPP Rel 6	HSUPA Subtest-3	15.39	15.29	15.59	17.00
3GPP Rel 6	HSUPA Subtest-4	15.26	15.28	15.39	16.00
3GPP Rel 6	HSUPA Subtest-5	17.60	17.80	17.90	18.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.10	15.09	15.02	15.50



		Da	nd 2 (1	tspot		iiu)					Dai		1900M ceiver		iiu)		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low	Power Middle Ch. / Freq.	Power High	Tune-up	1470	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Free	Power Middle Ch. / Freq.	Power High	Tune-up	MOD
	Cha	innel cy (MHz)		18700 1860	18900 1880	19100 1900	limit (dBm)	MPR (dB)		Chi	annel icy (MHz)		18700 1860	18900 1880	19100 1900	limit (dBm)	MPR (dB)
20 20	QPSK QPSK	1 1	0 49	16.61	16.74	16.54	17	0	20 20	QPSK QPSK	1	0 49	21.37	21.63	21.23	22	0
20	QPSK QPSK	1 50	99	16.29 15.76	16.63 15.81	16.36 15.79	- "		20	QPSK QPSK	1 50	99	21.19 20.53	21.30 20.73	21.35 20.69	_	
20 20	QPSK QPSK	50 50	24 50	15.52 15.63	15.61 15.52	15.53 15.79	16	1	20 20	QPSK QPSK	50 50	24 50	20.61 20.57	20.53 20.39	20.62 20.64	21	1
20 20	QPSK 16QAM	100	0	15.71 15.64	15.80 15.75	15.57 15.63			20 20	QPSK 16QAM	100	0	20.51 20.36	20.63	20.54		
20	16QAM 16QAM 16QAM	1	49 99	15.60 15.64	15.76 15.53	15.55 15.66	16	1	20 20	16QAM 16QAM	1	49 99	20.46	20.57	20.53	21	1
20 20 20	16QAM 16QAM	50 50	0 24 50	14.85 14.56 14.76	14.99 14.71 14.79	14.96 14.85 14.96	15	2	20 20 20	16QAM 16QAM	50 50	0 24 50	19.89 19.75 19.59	19.86 19.68 19.70	19.78 19.86 19.61	20	2
20	16QAM 64QAM	100	0	14.71	14.80	14.78			20	16QAM 64QAM	100	0	19.70	19.64	19.78		
20 20	64QAM 64QAM	1	49 99	14.63 14.34	14.26 14.33	14.42 14.58	15	2	20 20	64QAM 64QAM	1	49 99	19.36 19.32	19.25 19.26	19.36 19.39	20	2
20 20	64QAM 64QAM	50 50	0 24	13.58 13.67	13.59 13.57	13.63	14	3	20 20	64QAM 64QAM	50 50	0 24	18.51 18.47	18.57 18.45	18.67 18.58	19	3
20 20	64QAM 64QAM	100	50 0	13.43 13.36 18675	13.37 13.47 18900	13.46 13.45 19125	Turne un		20 20	64QAM 64QAM	100	50 0	18.52 18.71 18675	18.48 18.46 18900	18.66 18.38	Turo un	
	Frequen	oy (MHz)		1857.5	1880	1902.5	limit (dBm)	MPR (dB)			annes scy (MHz)		1857.5	1880	19125 1902.5	limit (dBm)	MPR (dB)
15 15	QPSK QPSK QPSK	1 1	0 37 74	16.56 16.61 16.46	16.67 16.28 16.57	16.53 16.58 16.29	17	0	15 15 15	QPSK QPSK QPSK	1 1	0 37 74	21.46 21.28 21.20	21.34 21.08 21.40	21.13 21.05 21.39	22	0
15 15	QPSK QPSK	36 36	0 20	15.69 15.55	15.83 15.57	15.70 15.43			15 15	QPSK QPSK	36 36	0 20	20.62 20.66	20.73	21.39 20.75 20.58		
15	QPSK QPSK	36 75	39	15.64 15.61	15.57 15.68	15.80	16	1	15 15	QPSK QPSK	36 75	39	20.66	20.28	20.61	21	1
15	16QAM 16QAM	1	0 37	15.75 15.57	15.85	15.70	16	1	15 15	16QAM 16QAM	1	0	20.35	20.57	20.30	21	1
15 15	16QAM 16QAM	1 36	74 0	15.66 14.75	15.65 14.89	15.67 14.86			15 15	16QAM 16QAM	1 36	74 0	20.32 19.84	20.25 19.86	20.61 19.84		
15 15	16QAM 16QAM	36 36	20 39	14.56 14.76	14.61 14.89	14.81 14.87	15	2	15 15	16QAM 16QAM	36 36	20 39	19.87 19.61	19.70 19.62	19.89 19.55	20	2
15 15	16QAM 64QAM	75 1	0	14.66 14.32	14.90 14.24	14.81			15 15	16QAM 64QAM	75 1	0	19.78 19.10	19.59 19.24	19.85		
15 15	64QAM 64QAM	1	37 74	14.57	14.24	14.52	15	2	15 15	64QAM 64QAM	1	37 74	19.33 19.26	19.31	19.45 19.36	20	2
15 15	64QAM 64QAM 64QAM	36 36 36	20	13.49 13.73	13.58	13.73	14	3	15 15	64QAM 64QAM 64QAM	36 36 36	0 20	18.47 18.42	18.69 18.36	18.58 18.66	19	3
15 15	64QAM 64QAM Cha	36 75	39	13.30 13.29 18650	13.48 13.47	13.46 13.34 19150	Tung-un		15 15	64QAM 64QAM Chi	36 75	39 0	18.49 18.58 18650	18.48 18.46	18.61 18.40 19150	Tune-up	
10	Frequen GPSK	cy (MHz)		18650 1855 16.65	3 1880 16.65	19150 1905 16.50	limit (dBm)	MPR (dB)	10	Frequer	icy (MHz)		18650 1855 21,33	3 1880 21.46	19150 1905 21.28	limit (dBm)	MPR (dB)
10 10	QPSK QPSK QPSK	1	0 25 49	16.65 16.55 16.26	16.65 16.45 16.71	16.50 16.47 16.39	17	0	10 10	QPSK QPSK	1	0 25 49	21.33 21.32 21.14	21.46 21.25 21.25	21.28 21.19 21.44	22	0
10	QPSK QPSK	25 25	0 12	15.77 15.45	15.73 15.58	15.73 15.53			10	QPSK QPSK	25 25	0 12	21.14 20.62 20.61	21.25 20.60 20.55	21.44 20.74 20.70		
10	QPSK QPSK	25 50	25	15.58	15.54 15.90	15.75	16	1	10	QPSK QPSK	25 50	25	20.50	20.36	20.61	21	1
10 10	16QAM 16QAM	1	0 25	15.77 15.65	15.83 15.81	15.54 15.66	16	1	10 10	16QAM 16QAM	1	0 25	20.33 20.51	20.74	20.43	21	1
10 10	16QAM 16QAM	1 25	49 0	15.77 14.94	15.41 14.71	15.69 14.93			10 10	16QAM 16QAM	1 25	49 0	20.30 19.97	20.41 19.89	20.45 19.71		
	16QAM		12	14.47 14.82	14.75 14.92	14.77	15	2	10 10	16QAM 16QAM	25 25	12 25	19.83 19.62	19.70	19.95 19.65	20	2
10 10	16QAM	25	25							16QAM			19.79	19.70	19.79		
10 10 10	16QAM 64QAM	25 50 1	0	14.66 14.29	14.90 14.27	14.72 14.37			10 10	64QAM	1	0	19.08	19.31	19.33		
10 10 10 10	16QAM 64QAM 64QAM 64QAM	25 50 1 1	0 0 25 49	14.66 14.29 14.61 14.26	14.90 14.27 14.20 14.27	14.37 14.47 14.48	15	2	10 10 10	64QAM 64QAM 64QAM	1 1	25 49	19.08 19.40 19.30	19.31 19.20 19.17	19.33 19.39 19.30	20	2
10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM	25 50 1 1 1 25 25	0 0 25 49 0	14.66 14.29 14.61 14.26 13.62 13.57	14.90 14.27 14.20 14.27 13.72 13.46	14.37 14.47 14.48 13.77 13.31	15	2	10 10 10 10	64QAM 64QAM 64QAM 64QAM	1 1 1 25 25	25 49 0 12	19.08 19.40 19.30 18.60 18.57	19.31 19.20 19.17 18.65 18.36	19.33 19.39 19.30 18.77 18.62	20	2
10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	25 25 50 innel	0 0 25 49 0	14.66 14.29 14.61 14.26 13.62	14.90 14.27 14.20 14.27 13.72	14.37 14.47 14.48 13.77		3	10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	25 25 50 annel	25 49 0	19.08 19.40 19.30 18.60	19.31 19.20 19.17 18.65	19.33 19.39 19.30 18.77		3 MPR
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Cha Frequen QPSK	25 25 50 innel	0 0 25 49 0 12 25 0	14.66 14.29 14.61 14.26 13.62 13.57 13.54 13.28 18625 1852.5	14.90 14.27 14.20 14.27 13.72 13.46 13.47 13.38 18900 1880 16.73	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5	Tune-up limit (dBm)	3 MPR (dB)	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequer	25 25	25 49 0 12 25 0	19.08 19.40 19.30 18.60 18.57 18.53 18.70	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 1850 21.44	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 1907.5	19 Tune-up limit (dBm)	3 MPR (dB)
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Cha Frequen QPSK QPSK	25 25 50 innel cy (MHz) 1 1	0 0 25 49 0 12 25 0	14.66 14.29 14.61 14.26 13.62 13.57 13.54 13.54 18.625 18.625 18.625 16.68 16.61	14.90 14.27 14.20 14.27 13.72 13.46 13.47 13.38 18900 1880 16.73 16.26	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5 16.41 16.58 16.23		3 MPR	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chu Frequer QPSK QPSK	25 25 50 sinnel scy (MHz) 1	25 49 0 12 25 0	19.08 19.40 19.30 18.60 18.57 18.53 18.70 18625 1852.5 21.44 21.18	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 1880 21.44 21.14	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 1907.5 21.20 21.27 21.42		3 MPR
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Char Frequen QPSK QPSK QPSK QPSK	25 25 50 innel cy (MHz) 1 1 1 1 12	0 0 25 49 0 12 25 0	14.66 14.29 14.61 14.26 13.62 13.57 13.54 13.28 18625 1852.5 16.68 16.61 16.33 15.85	14.90 14.27 14.27 14.27 13.72 13.46 13.47 13.38 18900 1880 16.73 16.26 16.54 15.62	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5 16.41 16.58 16.23 15.74	Tune-up limit (dBm)	3 MPR (dB)	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chi Frequer QPSK QPSK QPSK QPSK QPSK	25 25 50 sinnel sicy (MHz) 1 1 1 1 12 12 12	25 49 0 12 25 0 0 12 25 0 7	19.08 19.40 19.30 18.60 18.57 18.53 18.70 18625 1852.5 21.44 21.18 21.10 20.63	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 1880 21.44 21.14 21.14 20.71 20.67	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 1907.5 21.20 21.27 21.42 20.67 20.77	19 Tune-up limit (dBm)	3 MPR (dB)
10 10 10 10 10 10 10	16GAM 64GAM 64GAM 64GAM 64GAM 64GAM 64GAM Cha Frequen GPSK GPSK GPSK GPSK GPSK GPSK GPSK	25 25 50 innel cy (MHz) 1 1 1	0 0 25 49 0 12 25 0 0 12 24 0 7 13	14.66 14.29 14.61 14.26 13.62 13.57 13.54 13.25 18.25 16.68 16.61 16.33 15.85 15.56 15.75	14.90 14.27 14.27 13.72 13.46 13.47 13.38 18900 1880 16.73 16.25 16.54 15.82 15.62 15.51	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 16.41 16.58 16.23 15.74 15.75 15.75	Tune-up limit (dBm)	MPR (dB)	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM CN CN Frequer QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	25 25 50 annel cy (MHz) 1 1 1 1 12 12 12 12	25 49 0 12 25 0 0 12 24 0 7 13	19.08 19.40 19.30 18.60 18.57 18.53 18.70 18625 21.44 21.18 21.10 20.54 20.54 20.43	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 18.43 18900 21.44 21.14 21.14 20.67 20.38 20.58	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 21.20 21.27 21.42 20.67 20.73 20.45	Tune-up limit (dBm)	3 MPR (dB)
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Cha Prequen QPSK QPSK QPSK QPSK QPSK	25 25 50 smel cy (MHz) 1 1 1 1 12 12	0 0 25 49 0 12 25 0	14.66 14.29 14.61 14.26 13.62 13.57 13.54 13.28 18625 18625 16.68 16.61 16.33 15.85 15.56	14.90 14.27 14.27 14.27 13.72 13.46 13.47 13.38 18900 16.73 16.26 16.54 15.62 15.62	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5 16.41 16.58 16.23 15.47 15.47	Tune-up limit (dBm)	MPR (dB)	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Ch Frequer QPSK QPSK QPSK QPSK QPSK	25 25 50 annel (cy (MHz) 1 1 1 1 2 12 12 12	25 49 0 12 25 0 0 12 24 0 7	19.08 19.40 19.30 18.60 18.57 18.53 18.70 18625 1852.5 21.44 21.18 21.10 20.63 20.54	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 1880 21.44 21.14 20.71 20.67 20.38	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 1907.5 21.20 21.27 21.42 20.67 20.77 20.77	Tune-up limit (dBm)	3 MPR (dB)
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Cha PRIC QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	25 25 50 smel cy (MHz) 1 1 1 1 12 12	0 0 25 49 0 12 25 0 0 12 24 0 7 13 0 0	14.66 14.29 14.61 14.26 13.62 13.57 13.57 13.54 18.62 18.62 18.61 16.61 16.31 15.85 15.75 15.75 15.75	14.90 14.27 14.20 14.27 13.72 13.72 13.47 13.38 1890 16.73 16.26 16.54 15.82 15.62 15.51 15.83 15.83 15.83	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5 16.41 16.58 16.23 15.74 15.75 15.77 15.75 15.77 15.51	14 Tune-up limit (dBm) 17 16	3 MPR (dB) 0	10 10 10 10 10	640AM 640AM 640AM 640AM 640AM 640AM 640AM Ch Frequer QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	25 25 50 annel cy (MHz) 1 1 1 1 12 12 12 12	25 49 0 12 25 0 0 12 24 0 7 13 0 0	19.08 19.40 19.30 18.60 18.57 18.53 18.70 18625 18525 18525 21.44 21.18 21.10 20.54 20.63 20.54 20.26 20.46 20.34	19.31 19.20 19.17 18.65 18.36 18.39 18.43 18900 1890 21.44 21.14 21.41 20.71 20.67 20.38 20.58 20.58 20.56 20.61	19.33 19.39 19.30 18.77 18.62 18.71 18.45 19175 1907.5 21.20 21.27 20.67 20.77 20.73 20.45 20.28 20.47 20.37	19 Tune-up limt (dBm) 22 21	3 MPR (dB) 0 1
10 10 10 10 10 10 10	16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 98K QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPS	25 25 50 urnel cy (MHz) 1 1 1 1 1 12 12 12 12 25 1 1 1	0 0 0 25 49 0 12 25 0 0 12 24 0 7 7 13 0 0	14.66 14.29 14.61 14.61 13.62 13.57 13.54 13.25 18.62 18.62 18.63 16.68 16.68 16.68 16.68 15.75 15.75 15.75 15.75 15.74 14.84 14.84 14.84 14.84 14.81	14.90 14.27 14.27 13.72 13.46 13.47 13.36 18.00 18.00 16.73 16.73 16.54 15.82 15.62 15.62 15.63 15.61 15.83 15.40 14.61 14.61 14.61	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 19075 16.41 16.58 16.23 15.74 15.75 15.77 15.77 15.77 14.87 14.87	14 Tuns-up limt (dBm) 17	3 MPR (dB) 0	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Chu Frequer QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	25 25 50 sonnel soy (MHz) 1 1 1 1 1 2 12 12 12 25 1 1 1 1	25 49 0 12 25 0 12 24 0 7 13 0 0	19.08 19.40 19.30 18.60 18.53 18.70 18.53 18.70 18525 18525 18525 21.44 21.18 21.10 20.54 20.63 20.54 20.46 20.46 20.95 19.83 19.83 19.83 19.83 19.83	19.31 19.20 19.17 18.65 18.36 18.36 18.39 18.43 18.900 18.80 21.44 21.41 21.41 20.71 20.67 20.38 20.76 20.61 20.45 19.64 19.68	19.33 19.30 18.77 18.62 18.71 18.62 18.71 18.45 19175 1907.15 21.20 21.27 21.42 20.67 20.77 20.77 20.73 20.45 20.28 20.47 20.37 19.75 19.75 19.75 19.75	19 Tune-up limt (dBm) 22	3 MPR (dB) 0
10 10 10 10 10 10 10	16GAM 64GAM 16GAM	25 25 25 25 25 25 25 27 27 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 1 1 1	0 0 0 25 49 0 12 25 0 12 24 0 7 13 0 0 12 24 0 0 7 13 0 0 12 24 0 0 13 0 0 14 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14.66 14.29 14.61 14.61 13.57 13.54 13.52 1852.5 1852.5 16.61 16.33 15.85 15.56 15.75 15.64 15.75 15.64 14.88 14.45 14.81 14.63	14.90 14.27 14.27 13.72 13.72 13.46 13.47 13.38 1800 16.73 16.26 16.51 15.82 15.62 15.61 15.83 15.40 14.61 14.61 14.70 14.35	14.37 14.48 13.77 13.46 13.37 13.46 13.53 19175 1907.5 16.41 16.58 16.23 15.74 15.75 15.75 15.77 15.75 14.87 14.87 14.87 14.85 14.16	14 Tune-up limit (dBm) 17 16	3 MPR (dB) 0	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM CN CN Frequer QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	25 25 50 anned cy (MHz) 1 1 1 1 1 2 12 12 12 15 1 1 1 1 1 1 1 1	25 49 0 12 25 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 0	19.08 19.40 19.30 18.60 18.57 18.53 18.75 18.52 18.62 21.44 21.18 22.10 20.54 20.43 20.25 20.46 20.46 20.49 19.95 19.83	19.31 19.20 19.17 18.65 18.39 18.43 18.90 18.80 21.44 21.44 21.41 20.71 20.67 20.38 20.58 20.78 20.61 20.45 19.74 19.64 19.64 19.65 19.57 19.37	19.33 19.39 19.30 18.77 18.62 18.71 18.62 18.71 18.45 19175 1907.5 21.20 21.27 20.77 20.73 20.45 20.28 20.47 20.37 19.70 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75	19 Tune-up limt (dBm) 22 21	3 MPR (dB) 0 1
10 10 10 10 10 10 10	16GAM 64GAM 16GAM 16GAM 16GAM 16GAM 16GAM 16GAM 16GAM 16GAM 16GAM	25 25 50 smel cy (MHz) 1 1 1 1 1 2 12 25 1 1 1 1 1 2 25 1 1 1 1	0 0 25 49 0 12 25 0 0 12 24 0 7 7 13 0 0	14.66 14.29 14.61 14.61 14.61 13.62 13.57 13.54 13.28 18625 18525 18525 16.61 16.33 15.85 15.56 15.75 15.49 15.49 15.44 14.75 14.81 14.75 14.81 14.63 14.63	14.90 14.27 14.27 13.72 13.46 13.47 13.38 18000 16.73 16.64 15.82 15.51 15.78 15.61 14.61 14.61 14.75 14.70 14.35	14.37 14.47 14.48 13.77 13.31 13.46 13.53 19175 1907.5 16.58 16.23 15.74 15.75 15.77 15.75 15.77 15.77 15.74 14.87 14.85 14.85 14.56 14.56 14.56 14.56	14 Tune-up limit (d9m) 17 16	3 MPR (dB) 0 1 1 2	10 10 10 10 10	64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM Ch Pisk QPSK QPSK QPSK QPSK QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	25 25 50 sinnel cy (MHz) 1 1 1 1 1 2 2 5 1 1 1 1 1 2 2 5 1 1 1 1	25 49 0 12 25 0 12 24 0 7 7 13 0 0 12 24 0 7 7 13 0	19.08 19.40 19.30 18.67 18.57 18.53 18.70 18.52 18.52 18.52 21.44 21.18 21.19 20.54 20.63 20.54 20.43 20.26 20.34 19.95 19.95 19.72 19.95 19.72 19.26 19.77 19.26 19.77 19.26	19.31 19.20 19.17 18.65 18.39 18.43 18.90 18.80 21.44 21.14 21.14 20.67 20.67 20.68 20.76 20.61 20.45 19.57 19.68 19.57 19.57 19.32 19.32 19.32 19.32 19.32 19.32 19.32 19.32 19.32 19.32 19.33 19.32 19.32 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33 19.33	19.33 19.39 19.30 18.77 18.62 18.71 18.62 19175 1907.5 21.20 21.27 20.77 20.77 20.73 20.45 20.28 20.47 20.37 19.70 19.89 19.89 19.23 19.45 19.23 19.45 19.23	19 Ture-up limit (G9m) 22 21 21 20	3 MPR (dB) 0 1 1 2
10 10 10 10 10 10 10	16GAM 64GAM	25 25 25 50 smel oy (MHtb) 1 1 1 1 1 1 2 12 12 25 1 1 1 1 1 2 12 12 12 12 12 12 12 12 12	0 0 0 25 49 0 12 24 0 7 7 13 0 0 12 24 24 0 7 7 13 0 0 12 24 24 0 7 7 13 0 0 12 24 24 0 7 7 13 0 0 12 24 14 15 15 15 15 15 15 15 15 15 15 15 15 15	14.66 14.29 14.21 14.26 13.52 13.57 13.54 13.28 18.22 16.68 16.61 16.33 15.85 15.75 15.75 15.75 15.75 15.74 14.88 14.44 14.75 14.81 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 16.63 16.63 16.63 16.63 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 16.64 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Band 2 (1900MHz Band) Receiver off									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power			
DW (MLZ)	Cha	nnel	PLS Cliset	Low Ch. / Freq. 18700	Middle Ch. / Freq. 18900	High Ch. / Freq. 19100	Tune-up limit (dBm)		
20 20	GPSK QPSK	2y (MHz) 1	0	1860 21.37 21.29	1880 21.63 21.31	1900 21.23 21.28	22	0	
20 20	QPSK QPSK	1 50	99	21.19 20.53	21.30	21.35 20.69		-	
20 20	QPSK QPSK	50 50	24 50	20.61 20.57	20.53	20.62	21	1	
20 20 20	16QAM 16QAM	100	0 0 49	20.51 20.36 20.46	20.63 20.66 20.57	20.54 20.41 20.53	21	1	
20	16QAM	1 50	99	20.36	20.37	20.53	21		
20 20	16QAM 16QAM	50 50	24 50	19.75 19.59	19.68 19.70	19.86 19.61	20	2	
20 20	16QAM 64QAM	100	0	19.70 19.13	19.64	19.78 19.26			
20 20 20	64QAM 64QAM 64QAM	1 1	49 99 0	19.36 19.32 18.51	19.25 19.26 18.57	19.36 19.39 18.67	20	2	
20	64QAM 64QAM	50 50	24 50	18.47	18.45	18.58	19	3	
20	64QAM Cha	100 nnel	0	18.71 18675	18.46 18900	18.38 19125	Tune-up	MPR	
15	Prequen QPSK QPSK	1	0	1857.5 21.46	1880 21.34	1902.5 21.13	limit (dBm)	(dB)	
15 15	QPSK QPSK QPSK	1 1 36	37 74 0	21.28 21.20 20.62	21.08 21.40 20.73	21.05 21.39 20.75	22	0	
15	QPSK	36 36	20	20.66 20.66	20.61	20.58	21	1	
15 15	QPSK QPSK 16QAM	75 1	0	20.44	20.32	20.48			
15 15	16QAM 16QAM	1	37 74	20.46 20.32	20.53	20.50	21	1	
15 15	16QAM 16QAM 16QAM	36 36	20	19.84	19.86	19.84	20	2	
15 15	16QAM	36 75	39 0	19.61 19.78 19.10	19.62 19.59	19.55 19.85			
15 15	64QAM 64QAM	1 1	37 74	19.33 19.26	19.31 19.31	19.45	20	2	
15 15	64QAM 64QAM	36 36	0 20	18.47 18.42	18.69 18.36	18.58 18.66	19	3	
15 15	64QAM 64QAM	36 75	39 0	18.49 18.58	18.48 18.46	18.61 18.40			
	Cha Frequen	nnel cy (MHz)		18650 1855	3 1880	19150 1905	limit (dBm)	MPR (dB)	
10	QPSK QPSK QPSK	1 1	0 25	21.33 21.32 21.14	21.46 21.25	21.28 21.19	22	0	
10 10	QPSK QPSK	25	49 0	20.62	21.25 20.60 20.55	21.44 20.74 20.70			
10	QPSK QPSK	25 50	25 0	20.50 20.43	20.36 20.43	20.61 20.46	21	1	
10 10	16QAM 16QAM	1	0 25	20.33	20.74	20.43	21	1	
10 10	16QAM 16QAM	1 25	49 0	20.30 19.97	20.41 19.89	20.45 19.71			
10 10 10	16QAM 16QAM 16QAM	25 25 50	12 25 0	19.83 19.62 19.79	19.70 19.69 19.70	19.95 19.65 19.79	20	2	
10	64QAM	1 1	0 25	19.08	19.31	19.33	20	2	
10 10	64QAM 64QAM	1 25	49 0	19.30 18.60	19.17 18.65	19.30 18.77			
10 10	64QAM 64QAM	25 25	12 25	18.57 18.53	18.36 18.39	18.62 18.71	19	3	
10	64QAM Cha Frequen	50 nnel		18.70 18625 1852.5	18.43	18.45 19175 1907.5	Tune-up limit	MPR (dB)	
5	QPSK QPSK	1 1	0	21.44	1880 21.44 21.14	21.20	(dBm) 22	0	
5	QPSK QPSK	1 12	24	21.10	21.41	21.42			
5 5	QPSK QPSK	12 12	7	20.63 20.54	20.67	20.77	21	1	
5 5	QPSK 16QAM	25 1	0	20.43 20.26	20.58	20.45			
5	16QAM 16QAM	1 1 12	12 24 0	20.46 20.34 19.95	20.61 20.45 19.74	20.47 20.37 19.70	21	1	
5	16QAM 16QAM 16QAM	12	7	19.83 19.66	19.64 19.68	19.75	20	2	
5	16QAM 64QAM	25 1	0	19.77 19.12	19.57 19.37	19.89 19.23			
5 5	64QAM 64QAM	1	12 24	19.26 19.37	19.32 19.37	19.45 19.27	20	2	
5	64QAM 64QAM 64QAM	12 12 12	0 7 13	18.51 18.56 18.60	18.47 18.53	18.78 18.69 18.55	19	3	
5	64QAM 64QAM Cha	12 25	13	18.60 18.76 18615	18.53 18.58 18900	18.55 18.38 19185		MOD	
3	Frequen	cy (MHz)		1851.5 21.35	1880	1908.5	Tune-up limit (dBm)	MPR (dB)	
3	QPSK QPSK	1	8 14	21.16 21.13	21.17	21.11	22	٥	
3	QPSK QPSK	8	0 4	20.62	20.59	20.65	21	1	
3	QPSK QPSK 16QAM	15	7 0	20.66 20.49 20.50	20.27	20.64			
3 3	16QAM	1 1	8	20.63	20.64 20.71 20.22	20.38 20.55 20.40	21	1	
3	16QAM 16QAM 16QAM 16QAM	oo oo	0 4	19.79 19.91	20.22 19.73 19.68	19.86 19.89	20	2	
3	16QAM	8 15	7	19.48 19.55	19.74	19.45 19.87	20		
3	64QAM 64QAM	1 1	0 8 14	19.20 19.47	19.33 19.39 19.25	19.15 19.36	20	2	
3 3	64QAM 64QAM	8 8	14 0 4	19.46 18.39 18.57	18.42	19.41 18.72 18.42			
3	64QAM 64QAM 64QAM	8 15	7	18.58 18.58	18.47	18.70	19	3	
	Cha	nnel cy (MHz)		18607 1850.7	18900 1880	19193 1909.3	Tune-up limit (dBm)	MPR (dB)	
1.4 1.4 1.4	QPSK QPSK	1 1	0 3	21.41 21.29	21.56 21.28	21.17 21.23			
	QPSK QPSK QPSK	3	5	21.14 20.67 20.58	21.42	21.38	22	0	
1.4 1.4 1.4	QPSK	3	3 0	20.58 20.67 20.49	20.59 20.36 20.33	20.69 20.71 20.54	21	1	
1.4	QPSK 16QAM 16QAM	1 1	0 3	20.49 20.40 20.56	20.68	20.54 20.48 20.63	£1	1	
1.4	16QAM 16QAM	1 3	5	20.24 19.82	20.51	20.38	21	1	
1.4	16QAM 16QAM	3	1 3	19.82 19.50	19.79 19.67	19.93 19.63			
1.4	16QAM 64QAM	- 6 - 1	0	19.84 19.19 19.22	19.76 19.22 19.18	19.72 19.16 19.43	20	2	
1.4	64QAM 64QAM								

				tspot	on	Power		
	Modulation	RB Size	RB Offset	Low Ch / Freq.	Power Middle Ch. / Freq.	High Ch. / Freq.	Tune-up limit	MPR (dB)
_		innel		20850 2510	21100 2535	21350 2560		
,	Frequen QPSK		0	21.13	21.29	21.06		
0	QPSK	- 1	49	21.01	21.04	21.07	21.5	0
-	QPSK QPSK	50	99	21.06 20.05	21.08	20.97 19.93	_	
1	QPSK	50	24	20.19	19.93	20.03	20.5	1
)	QPSK	50	50	19.94	19.99	19.96	20.5	
	QPSK 16QAM	100	0	19.52 19.92	19.53 19.86	19.47 19.77		
0	16QAM	1	49	19.73	19.62	19.67	20.5	1
0	16QAM	- 1	99	19.76	19.63	19.87		
0	16QAM 16QAM	50 50	0 24	18.74 18.86	18.76 19.03	18.89 18.72		
0	16QAM	50	50	18.76	19.03	18.72	19.5	2
	16QAM	100	0	18.78	18.88	18.83		
_	64QAM 64QAM	1	49	18.77	18.76	18.82	19.5	2
0	64QAM	1	99	18.86	18.87	18.69	19.5	2
0	64QAM	50	ő	17.93	17.82	17.92		
	64QAM	50	24	17.97	17.83	17.94	18.5	3
))	64QAM 64QAM	50 100	50	18.03	17.93	18.09		
	Cha	innel		20825	21100	21375	Tune-up	MPR (dB)
	Frequen	icy (MHz)		2507.5	2535	2562.5		
5 5	QPSK QPSK	1	0	21.03	21.14	21.17	21.5	0
5 5	QPSK	1	37 74	21.13 21.16	20.93	21.15	21.5	0
5	QPSK	36	0	20.03	20.18	20.03		
5	QPSK	36	20	20.07	19.99	20.09	20.5	1
5 5	QPSK QPSK	36 75	39	19.93 19.50	19.96	19.95 19.35		
5	16QAM	1	Ö	19.84	19.81	19.78		
5	16QAM	- 1	37	19.61	19.65	19.63	20.5	1
15	16QAM 16QAM	1	74	19.88	19.68	19.76		
15	16QAM	36 36	20	18.82	19.16	18.96		
5	16QAM	36	39	18.83	18.97	18.97	19.5	2
5	16QAM	75	0	18.72	18.84	18.93		
5 5	64QAM 64QAM	1	0 37	18.68	18.80	18.80	19.5	2
5	64QAM	1	74	18.88	18.67	18.64	10.0	_
5	64QAM	36	0	17.90	17.94	17.85		
5 5	64QAM 64QAM	36	20 39	18.04	17.96	18.03	18.5	3
5	64QAM	75	0	18.14	18.09	18.00		
	Cha	innel		20800	21100	21400	Tune-up limit	MPR (dB)
		icy (MHz)		2505	2535	2565	(dBm)	(dB)
))	QPSK QPSK	1	0 25	20.92	21.17	21.11	21.5	0
,	QPSK	1	49	21.08	21.20	21.10	21.5	
•	QPSK	25	0	20.05	20.18	19.92		
0	QPSK QPSK	25 25	12 25	20.19	20.15	20.04	20.5	1
,	QPSK	50	0	19.51	19.59	19.54		
)	16QAM	1	0	19.94	19.97	19.95		
	16QAM 16QAM	1	25	19.88	19.63	19.74	20.5	1
))	16QAM 16QAM	25	49	19.93 18.83	19.80	19.96 19.00		
	16QAM	25	12	19.04	19.24	18.80	19.5	2
0	16QAM	25	25	18.81	19.06	19.03	19.5	-
1	16QAM 64QAM	50	0	18.87	19.03	18.82		
-	64QAM	1	25	19.04	18.93	18.80	19.5	2
1	64QAM	- 1	49	18.92	18.83	18.68		
	64QAM 64QAM	25 25	12	17.92	17.87	17.92		
-	64QAM 64QAM	25 25	12 25	17.99	17.88	17.98	18.5	3
	64QAM	50	0	18.08	18.07	18.20		
	Cha			20775	21100	21425	Tune-up limit	MPR
	Frequen	icy (MHz)	0	2502.5	2535	2567.5	(dBm)	(dB)
	QPSK	1	12	21.00	21.09	21.09	21.5	0
	QPSK	1	24	21.12	21.12	20.92		
	QPSK	12	0	20.01	20.06	20.07		
	QPSK	12 12	7	20.22 20.04	20.08 20.01	20.15 19.81	20.5	1
	OBON		13	19.48	19.61	19.81		
	QPSK QPSK			19.99	19.79	19.91		
	QPSK 16QAM	25 1	0			19.65	20.5	1
5	QPSK 16QAM 16QAM	1	12	19.67	19.55	19.00		
	QPSK 16QAM 16QAM 16QAM	1 1	12 24	19.71	19.69	19.83		
	QPSK 16QAM 16QAM	1	12	19.67 19.71 18.80 18.85	19.55 19.69 18.70 18.97	19.83 18.85 18.66		
	QPSK 16QAM 16QAM 16QAM 16QAM 16QAM	1 1 1 12 12 12	12 24 0 7	19.71 18.80 18.85 18.90	19.69 18.70 18.97 18.85	19.83 18.85 18.66 18.78	19.5	2
	QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	1 1 1 12 12 12 12 25	12 24 0 7 13	19.71 18.80 18.85 18.90 18.68	19.69 18.70 18.97 18.85 18.81	19.83 18.85 18.66 18.78 18.75	19.5	2
	QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM	1 1 1 12 12 12 12 25	12 24 0 7 13 0	19.71 18.80 18.85 18.90 18.68 18.67	19.69 18.70 18.97 18.85 18.81 18.68	19.83 18.85 18.66 18.78 18.75 18.84		
	OPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM	1 1 1 12 12 12 12 25	12 24 0 7 13	19.71 18.80 18.85 18.90 18.68	19.69 18.70 18.97 18.85 18.81	19.83 18.85 18.66 18.78 18.75	19.5	2
	QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM	1 1 1 12 12 12 12 25 1 1 1	12 24 0 7 13 0 0 12 24 0	19.71 18.80 18.85 18.90 18.68 18.67 18.89 18.82 17.93	19.69 18.70 18.97 18.85 18.81 18.68 18.89 18.74	19.83 18.85 18.66 18.78 18.75 18.84 18.71 18.47		
	QPSK 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM	1 1 1 12 12 12 12 25 1 1	12 24 0 7 13 0 0 12 24	19.71 18.80 18.85 18.90 18.68 18.67 18.89 18.82	19.69 18.70 18.97 18.85 18.81 18.68 18.89 18.74	19.83 18.85 18.66 18.78 18.75 18.84 18.71 18.47		

		Baı	nd 7 (2			nd)		
				ceiver	Power	Power		
	Modulation			Low Ch. / Freq.	Middle Ch / Free	High Ch. / Freq. 21350	Tune-up limit	MDD
	Chi	innel		20850	21100	21350	limit (dBm)	
	Frequer	icy (MHz)		2510	2535	2560	, ,	
20	QPSK	1	0 49	21.13	21.29	21.06	21.5	0
20	QPSK	1	99	21.01	21.04	20.97	21.5	0
20	QPSK	50	0	20.05	20.26	19.93		
20	QPSK	50	24	20.19	19.93	20.03	20.5	- 1
20	QPSK	50	50	19.94	19.99	19.96	20.5	
20	QPSK 16QAM	100	0	19.52	19.53	19.47		
20	16QAM	1	49	19.92	19.86	19.77	20.5	1
20	16OAM	1	99	19.76	19.63	19.87	20.5	
20	16QAM	50	0	18.74	18.76	18.89		
20	16QAM	50	24	18.86	19.03	18.72	19.5	2
20	16QAM	50	50 0	18.76	18.97	18.87		-
20	64QAM	100	0	18.77	18.88	18.83		
20	64QAM	1	49	18.86	18.87	18.69	19.5	2
20	64QAM	- 1	99	18.83	18.69	18.61		
20	64QAM	50	0	17.93	17.82	17.92		
20	64QAM 64QAM	50 50	24 50	17.97	17.83	17.94	18.5	3
20	64QAM 64QAM	100	50	18.03	17.93	18.09		
20		innel	_	18.01 20825	21100	21375	Tune-up	MPR
	Frequer	icy (MHz)		2507.5	2535	2562.5	limit (dRm)	(dB)
15	QPSK	1	0	21.03	21.14	21.17	(
15 15	QPSK	1	37	21.13	20.93	21.15	21.5	0
	QPSK	1	74	21.16	21.00	21.11		
15 15	QPSK QPSK	36 36	0 20	20.03	20.18	20.03		
15	QPSK	36	39	19.93	19.99	19.95	20.5	- 1
15	QPSK	75	0	19.50	19.62	19.35		
15	16QAM	- 1	0	19.84	19.81	19.78		
15	16QAM	- 1	37	19.61	19.65	19.63	20.5	- 1
15	16QAM	1	74	19.88	19.68	19.76		
15	16QAM	36	20	18.82	19.16	18.96		
15	16QAM	36	39	18.83	18.97	18.97	19.5	2
15	16QAM	75	0	18.72	18.84	18.93		
15	64QAM	- 1	0	18.68	18.80	18.80		
15	64QAM	- 1	37	18.79	18.98	18.65	19.5	2
15 15	64QAM 64QAM	1 36	74 0	18.88	18.67	18.64		
15	64QAM	36	20	18.04	17.94	18.03		
15	64QAM	36	39	18.11	17.94	18.06	18.5	3
15	64QAM	75	0	18.14	18.09	18.00		
	Chi	innel		20800	21100	21400	Tune-up limit	MPR (dB)
	Frequer	icy (MHz)		2505	2535	2565	(dBm)	(08)
10	QPSK	1	0 25	20.92	21.17	21.11	21.5	0
10	QPSK	1	49	21.08	21.20	21.10	21.5	
10	QPSK	25	0	20.05	20.18	19.92		
10	QPSK	25	12	20.19	20.15	20.04	20.5	- 1
10	QPSK	25 50	25					
10	QPSK 16OAM			20.02	20.01	20.17		1
10		-	0	19.51	20.01 19.59	19.54		1
	16QAM	1	0 0 25		20.01		20.5	1
	16QAM		0	19.51 19.94	20.01 19.59 19.97	19.54 19.95	20.5	
10	16QAM 16QAM	1 1 25	0 25 49 0	19.51 19.94 19.88 19.93 18.83	20.01 19.59 19.97 19.63 19.80 18.90	19.54 19.95 19.74 19.96 19.00	20.5	
10 10	16QAM 16QAM 16QAM	1	0 25 49 0	19.51 19.94 19.88 19.93 18.83 19.04	20.01 19.59 19.97 19.63 19.80 18.90 19.24	19.54 19.95 19.74 19.96 19.00 18.80	20.5	
10 10 10	16QAM 16QAM 16QAM 16QAM	1 1 25 25 25	0 25 49 0 12 25	19.51 19.94 19.88 19.93 18.83 19.04 18.81	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06	19.54 19.95 19.74 19.96 19.00 18.80 19.03		1
10 10	16QAM 16QAM 16QAM	1 1 25	0 25 49 0	19.51 19.94 19.88 19.93 18.83 19.04	20.01 19.59 19.97 19.63 19.80 18.90 19.24	19.54 19.95 19.74 19.96 19.00 18.80		1
10 10 10	16QAM 16QAM 16QAM 16QAM	1 1 25 25 25 25	0 25 49 0 12 25	19.51 19.94 19.88 19.93 18.83 19.04 18.81	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06	19.54 19.95 19.74 19.96 19.00 18.80 19.03		1
10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25 50 1 1	0 25 49 0 12 25 0 0 25 49	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68	19.5	1 2
10 10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25 50 1	0 25 49 0 12 25 0 0 25 49	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92	19.5	1 2
10 10 10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 50 1 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	0 25 49 0 12 25 0 0 25 49 0	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92 17.99	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83 17.87	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.68 17.92 17.98	19.5	1 2
10 10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25 50 1 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	0 25 49 0 12 25 0 0 25 49 0 12 25	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92	19.5	2 2
10 10 10 10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 50 1 1 1 1 25 25 50 25 50 1 1 1 25 25 50 50 50 50 50 50 50 50 50 50 50 50 50	0 25 49 0 12 25 0 0 25 49 0	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92 17.92 18.01	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83 17.87 17.88	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92 17.98 18.13	19.5 19.5 18.5	2 2
10 10 10 10 10 10 10 10 10 10	16QAM 16QAM 16QAM 16QAM 16QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM 64QAM	1 1 25 25 25 25 50 1 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	0 25 49 0 12 25 0 0 25 49 0 12 25	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92 17.92 17.92 18.01	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83 17.87 17.87 18.10 18.10 18.10 18.10	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92 17.98 18.13	19.5	2 2
10 10 10 10 10 10 10 10 10 10	160AM 160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM	1 1 25 25 50 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	0 25 49 0 12 25 0 0 25 49 0 12 25 0	19.51 19.94 19.83 19.93 18.83 19.04 18.81 19.04 18.87 18.88 19.04 18.92 17.99 18.01 18.05 20775 2502.5	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.73 18.83 17.87 17.88 18.10 18.07 21100 2535 21.09	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92 18.13 18.20 21.425 2567.5 21.09	19.5 19.5 18.5 Tune-up limit (dBm)	1 2 2 3 MPR (dS)
10 10 10 10 10 10 10 10 10 10 10 10	160AM 160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM Chi Frequer QPSK	1 1 25 25 25 50 1 1 1 25 25 25 50 innel cy (MHz) 1 1 1	0 25 49 0 12 25 0 0 25 49 0 12 25 0 0	19.51 19.94 19.88 19.93 18.83 19.04 18.81 18.81 18.92 17.92 17.92 18.03 20775 2502.5 21.00 21.12	20.01 19.59 19.97 19.63 19.80 18.90 19.06 19.03 18.74 19.06 19.03 18.73 17.87 17.87 17.87 17.87 17.80 18.07 21.100 25.15 21.09 21.21	19.54 19.95 19.74 19.90 18.80 19.03 18.82 18.84 18.80 18.68 17.92 17.98 18.13 18.20 21.425 2567.5 21.09	19.5 19.5 18.5	1 2 2 3 MPR
10 10 10 10 10 10 10 10 10 10 10 10	160AM 160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 040AM 040AM 040AM 040AM 040AM 040AM	1 1 25 25 25 50 1 1 1 25 25 25 50 unnel ccy (MHz) 1 1 1 1	0 25 49 0 12 25 0 0 25 49 0 12 25 0 0	19.51 19.94 19.88 19.93 18.83 19.04 18.81 19.04 18.88 19.04 18.89 17.92 17.92 17.99 18.01 18.08 20775 2502.5 21.10 21.10	20.01 19.59 19.97 19.63 19.80 18.90 19.06 19.03 18.74 18.93 18.83 17.87 17.88 18.10 18.00 2536 21.09 21.11	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.88 17.92 17.98 18.13 18.20 21.425 2567.5 21.09 20.92	19.5 19.5 18.5 Tune-up limit (dBm)	1 2 2 3 MPR (dS)
10 10 10 10 10 10 10 10 10 10 10 5 5 5	160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM	1 1 1 25 25 25 50 1 1 1 25 25 25 50 unnel key (MHz) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 25 49 0 12 25 0 0 25 49 0 12 25 0 0	19.51 19.94 19.88 19.88 19.93 18.83 19.04 18.81 18.87 18.88 19.04 18.92 17.92 17.92 17.92 17.92 17.92 17.92 17.92 17.92 17.92 17.92 17.92 18.01 18.03	20.01 19.59 19.97 19.63 19.80 18.90 19.06 19.03 18.74 18.93 18.83 17.87 17.88 18.10 18.07 21.10 25.35 21.09 21.21 21.12 20.06	19.54 19.95 19.74 19.96 19.00 18.80 18.82 18.84 18.86 17.92 17.98 18.13 18.20 21.425 2567.5 21.09 21.20 20.07	19.5 19.5 18.5 Tune-up Imit (c2m) 21.5	1 2 2 3 MPR (dB) 0
10 10 10 10 10 10 10 10 10 10 10 10	160AM 160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 040AM 040AM 040AM 040AM 040AM 040AM	1 1 25 25 25 50 1 1 1 25 25 25 50 unnel ccy (MHz) 1 1 1 1	0 25 49 0 12 25 0 0 25 49 0 12 25 0 0 12 25 25 49 0 12 25 25 49 0 12 25 49 0 0 12 25 0 0 12 25 0 0 12 25 0 0	19.51 19.94 19.88 19.93 18.83 19.04 18.81 19.04 18.88 19.04 18.89 17.92 17.92 17.99 18.01 18.08 20775 2502.5 21.10 21.10	20.01 19.59 19.97 19.63 19.80 18.90 19.06 19.03 18.74 18.93 18.83 17.87 17.88 18.10 18.00 2536 21.09 21.11	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.88 17.92 17.98 18.13 18.20 21.425 2567.5 21.09 20.92	19.5 19.5 18.5 Tune-up limit (dBm)	1 2 2 3 MPR (dS)
10 10 10 10 10 10 10 10 10 10 10 5 5 5 5	160AM 160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM	1 1 1 25 25 25 50 1 1 1 2 25 25 25 50 1 1 1 1 2 25 25 25 1 1 1 1 1 1 1 1 1 1	0 25 49 0 12 25 0 0 0 12 25 49 0 12 25 0 0	19.51 19.94 19.88 19.83 19.03 18.83 19.04 18.81 18.87 19.04 18.92 17.92 17.99 18.01 18.08 20775 2502.5 21.00 21.12 21.20 20.04 19.48	20.01 19.59 19.97 19.63 19.80 19.24 19.06 19.03 18.74 18.93 18.83 17.87 18.83 17.88 18.10 25.35 21.10 21.10 21.10 21.10 20.08 20.01 19.65	19.54 19.95 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92 17.98 18.13 18.20 21.425 2507.5 21.20 20.92 20.92 20.97 20.15 19.81	19.5 19.5 18.5 Tune-up Imit (c2m) 21.5	1 2 2 3 MPR (dB) 0
10 10 10 10 10 10 10 10 10 10 10 5 5 5 5	160AM 160AM 160AM 160AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM 640AM	1 1 1 2 2 2 5 2 5 2 5 2 5 1 1 1 1 2 5 2 5	0 25 49 0 12 25 0 0 0 12 25 49 0 12 25 0 0 12 25 0 0 12 25 0 0 12 25 0 0 12 25 0 0 12 25 0 0 0 12 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.51 19.94 19.88 19.88 19.03 18.83 19.04 18.81 18.88 19.04 18.87 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01 18.01	20.01 19.59 19.97 19.63 19.80 18.90 19.24 19.06 19.03 18.74 18.93 18.83 17.87 17.88 18.10 25.06 21.09 21.21 20.06 20.06 20.01 19.79	19.54 19.96 19.74 19.96 19.00 18.80 19.03 18.82 18.84 18.80 18.68 17.92 17.98 18.13 18.20 21.425 22.07 21.09 20.07 20.07 19.81 19.51	19.5 19.5 18.5 Tune-up limt (dBm) 21.5 20.5	1 2 2 3 MPR (dB) 0
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WLAN/Bluetooth Power

	2.4GHz	:WLAN		Ant 1			
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		1	2412	14.13	16.00		
	802.11b 1Mbps	6	2437	12.68	14.00	98.31	
2.4GHz WLAN		11	2462	14.01	15.50		
2.40HZ WEAK		1	2412	14.38	16.00		
	802.11g 6Mbps	6	2437	15.76	16.00	90.61	
		11	2462	12.31	14.00		
		1	2412	10.56	12.00		
	802.11n-HT20 MCS0	6	2437	14.81	16.00	89.07	
		11	2462	10.47	12.00		

BT BR/EDR

Mode	Channel	Frequency	A۱	Tune-up Limit			
Wode	Chamer	(MHz)	1Mbps	2Mbps	3Mbps	Tune-up Limit	
	CH 00	2402	6.74	6.09	6.10	8.00	
BR / EDR	CH 39	2441	6.71	6.40	6.43	8.00	
	CH 78	2480	6.66	6.17	6.34	8.00	

BT LE

Mode	ide Channel	Frequency	Average power (dBm)	Tune-up Limit	
Wode	Charmer	(MHz)	GFSK	Turie-up Limit	
	CH 00	2402	5.99	7.50	
	CH 19	2440	5.97	7.50	
	CH 39	2480	6.02	7.50	

BT LE V5.0

Mode	Channel	Frequency	Average power (dBm)	Tune-up Limit	
Wode	Chamer	(MHz)	1Mbps	rune-up Limit	
	CH 00	2402	5.80	7.50	
LE	CH 19	2440	5.73	7.50	
	CH 39	2480	5.88	7.50	