ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and and PART 27 SUBPART B, C & SUBPART L and PART 90S REQUIREMENT

OF

Product Name:	**Network Platform**
Brand Name:	**N/A**
Model No.:	**FWA-1010VC, FWA-1010XXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, "-" or blank)**
Model Difference:	**Market different**
FCC ID:	**M82-FWA-1010**
Report No.:	**E2/2017/50066**
Issue Date:	**Jul. 25, 2017**
FCC Rule Part:	**2 , 22H & 24E & 27B, C & L & 90S**
Prepared for:	**Advantech Co., Ltd No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333**

Testing Laboratory
0513

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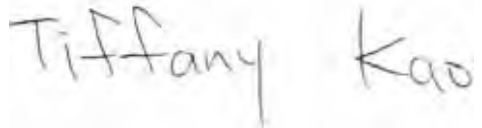
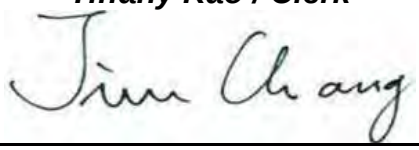
VERIFICATION OF COMPLIANCE

Applicant:	Advantech Co., Ltd No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 11491, Taiwan, R.O.C.
Product Name:	Network Platform
Brand Name:	N/A
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXX (where "X" may be any alpha-numeric character, "-" or blank)
Model Difference:	Market different
FCC ID:	M82-FWA-1010
File Number:	E2/2017/50066
Date of test:	May 17, 2017 ~ Jul. 25, 2017
Date of EUT Received:	May 17, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory
The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-D-2010 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.
The test results of this report relate only to the tested sample identified in this report.

Test By:		***Date***	Jul. 21, 2017
	Aken Huang / Engineer		
Prepared By:		***Date***	Jul. 21, 2017
	Tiffany Kao / Clerk		
Approved By		***Date***	Jul. 21, 2017
	Jim Chang / Asst. Manager		

Revision History

Report Number	Revision	Description	Issue Date
E2/2017/50066	Rev.00	Initial creation of document	Jul. 21, 2017

Contents

1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Network Platform	
Brand Name:	N/A	
Model No.:	FWA-1010VC, FWA-1010XXXXXXXXXXXXXXX (where "X" may be any alphanumeric character, “-“ or blank)	
Model difference:	Market different	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12V from AC/DC Adapter	
	Adapter:	Model No.: FSP060-DIBAN2 Supplier: FSP GROUP INC.

WCDMA / LTE:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	WCDMA / HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA / HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	LTE-Band 2 (1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (10MHz)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (20MHz)	1720MHz – 1745MHz	23dBm
	LTE-Band 5 (1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	23dBm
	LTE-Band 12 (1.4MHz)	699.7MHz– 715.3MHz	23dBm
	LTE-Band 12 (3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (5MHz)	701.5MHz – 713.5MHz	23dBm
	LTE-Band 12 (10MHz)	704.0MHz – 711.0MHz	23dBm
	LTE-Band 13 (5MHz)	779.5MHz - 784.5MHz	23dBm
	LTE-Band 13 (10MHz)	782.0MHz	23dBm

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 25 (1.4MHz)	1850.7MHz– 1914.3MHz	23dBm
	LTE-Band 25 (3MHz)	1851.5MHz – 1913.5MHz	23dBm
	LTE-Band 25 (5MHz)	1852.5MHz – 1912.5MHz	23dBm
	LTE-Band 25 (10MHz)	1855.0MHz – 1910.0MHz	23dBm
	LTE-Band 25 (15MHz)	1857.5MHz – 1907.5MHz	23dBm
	LTE-Band 25 (20MHz)	1860.0MHz – 1905.0MHz	23dBm
	LTE-Band 26 (1.4MHz) (for Part 90S)	814.7 MHz– 823.3 MHz	23dBm
	LTE-Band 26 (3MHz) (for Part 90S)	815.5 MHz– 822.5 MHz	23dBm
	LTE-Band 26 (5MHz) (for Part 90S)	816.5 MHz– 822.5 MHz	23dBm
	LTE-Band 26 (10MHz) (for Part 90S)	819.0 MHz– 819.0 MHz	23dBm
	LTE-Band 26 (1.4MHz)	824.7 MHz– 848.3 MHz	23dBm
	LTE-Band 26 (3MHz)	825.5 MHz– 847.5 MHz	23dBm
	LTE-Band 26 (5MHz)	826.5 MHz– 846.5 MHz	23dBm
	LTE-Band 26 (10MHz)	829.0 MHz– 844.0 MHz	23dBm
	LTE-Band 26 (15MHz)	831.5 MHz– 841.5 MHz	23dBm
	LTE-Band 30 (5MHz)	2307.5 MHz– 2312.5 MHz	23dBm
	LTE-Band 30 (10MHz)	2310 MHz	23dBm
	LTE-Band 41 (5MHz)	2547.5MHz – 2652.5MHz	23dBm
	LTE-Band 41 (10MHz)	2550.0MHz – 2650.0MHz	23dBm
	LTE-Band 41 (15MHz)	2552.5MHz – 2647.5MHz	23dBm
	LTE-Band 41 (20MHz)	2555.0MHz – 2645.0MHz	23dBm
IMEI:	359072060296809		

Type of Emission:

Frequency Band	Type of Emission:
WCDMA Band II	4M16F9W
HSDPA Band II	4M16F9W
HSUPA Band II	4M14F9W
WCDMA Band V	4M15F9W
HSDPA Band V	4M14F9W
HSUPA Band V	4M14F9W

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M09G7D
LTE Band 2	1.4MHz	16QAM	1M10D7W
LTE Band 2	3MHz	QPSK	2M70G7D
LTE Band 2	3MHz	16QAM	2M70D7W
LTE Band 2	5MHz	QPSK	4M50G7D
LTE Band 2	5MHz	16QAM	4M50D7W
LTE Band 2	10MHz	QPSK	9M01G7D
LTE Band 2	10MHz	16QAM	8M97D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M5D7W
LTE Band 2	20MHz	QPSK	18M0G7D
LTE Band 2	20MHz	16QAM	18M0D7W
LTE Band 4	1.4MHz	QPSK	1M09G7D
LTE Band 4	1.4MHz	16QAM	1M09D7W
LTE Band 4	3MHz	QPSK	2M70G7D
LTE Band 4	3MHz	16QAM	2M70D7W
LTE Band 4	5MHz	QPSK	4M50G7D
LTE Band 4	5MHz	16QAM	4M50D7W
LTE Band 4	10MHz	QPSK	9M02G7D
LTE Band 4	10MHz	16QAM	8M98D7W
LTE Band 4	15MHz	QPSK	13M5G7D
LTE Band 4	15MHz	16QAM	13M5D7W
LTE Band 4	20MHz	QPSK	18M0G7D
LTE Band 4	20MHz	16QAM	18M0D7W
LTE Band 5	1.4MHz	QPSK	1M09G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M70G7D
LTE Band 5	3MHz	16QAM	2M70D7W
LTE Band 5	5MHz	QPSK	4M50G7D
LTE Band 5	5MHz	16QAM	4M50D7W
LTE Band 5	10MHz	QPSK	9M00G7D
LTE Band 5	10MHz	16QAM	8M99D7W

LTE Band 7	5MHz	QPSK	4M50G7D
LTE Band 7	5MHz	16QAM	4M50D7W
LTE Band 7	10MHz	QPSK	9M00G7D
LTE Band 7	10MHz	16QAM	8M97D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 7	20MHz	QPSK	18M0G7D
LTE Band 7	20MHz	16QAM	18M0D7W
LTE Band 12	1.4MHz	QPSK	1M09G7D
LTE Band 12	1.4MHz	16QAM	1M09D7W
LTE Band 12	3MHz	QPSK	2M70G7D
LTE Band 12	3MHz	16QAM	2M70D7W
LTE Band 12	5MHz	QPSK	4M50G7D
LTE Band 12	5MHz	16QAM	4M50D7W
LTE Band 12	10MHz	QPSK	9M00G7D
LTE Band 12	10MHz	16QAM	8M98D7W
LTE Band 13	5MHz	QPSK	4M50G7D
LTE Band 13	5MHz	16QAM	4M51D7W
LTE Band 13	10MHz	QPSK	8M97G7D
LTE Band 13	10MHz	16QAM	8M92D7W
LTE Band 25	1.4MHz	QPSK	1M10G7D
LTE Band 25	1.4MHz	16QAM	1M10D7W
LTE Band 25	3MHz	QPSK	2M70G7D
LTE Band 25	3MHz	16QAM	2M70D7W
LTE Band 25	5MHz	QPSK	4M50G7D
LTE Band 25	5MHz	16QAM	4M50D7W
LTE Band 25	10MHz	QPSK	8M98G7D
LTE Band 25	10MHz	16QAM	8M99D7W
LTE Band 25	15MHz	QPSK	13M5G7D
LTE Band 25	15MHz	16QAM	13M5D7W
LTE Band 25	20MHz	QPSK	18M0G7D
LTE Band 25	20MHz	16QAM	18M0D7W
LTE Band 26	1.4MHz	QPSK	1M09G7D
LTE Band 26	1.4MHz	16QAM	1M09D7W
LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26	3MHz	16QAM	2M70D7W
LTE Band 26	5MHz	QPSK	4M50G7D
LTE Band 26	5MHz	16QAM	4M50D7W

LTE Band 26	10MHz	QPSK	9M01G7D
LTE Band 26	10MHz	16QAM	8M98D7W
LTE Band 26	15MHz	QPSK	13M5G7W
LTE Band 26	15MHz	16QAM	13M5D7W
LTE Band 30	5MHz	QPSK	4M49G7D
LTE Band 30	5MHz	16QAM	4M50D7W
LTE Band 30	10MHz	QPSK	9M00G7D
LTE Band 30	10MHz	16QAM	8M96D7W
LTE Band 41	5MHz	QPSK	4M51G7D
LTE Band 41	5MHz	16QAM	4M51D7W
LTE Band 41	10MHz	QPSK	8M98G7D
LTE Band 41	10MHz	16QAM	8M99D7W
LTE Band 41	15MHz	QPSK	13M5G7D
LTE Band 41	15MHz	16QAM	13M5D7W
LTE Band 41	20MHz	QPSK	18M0G7D
LTE Band 41	20MHz	16QAM	17M9D7W

LTE Band 26 for Part 90S

LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M09D7W
LTE Band 26	3MHz	QPSK	2M70G7D
LTE Band 26	3MHz	16QAM	2M70D7W
LTE Band 26	5MHz	QPSK	4M50G7D
LTE Band 26	5MHz	16QAM	4M50D7W
LTE Band 26	10MHz	QPSK	8M99G7D
LTE Band 26	10MHz	16QAM	8M99D7W

Max ERP/EIRP Power Measurement Result:

	dBm		W
WCDMA Band II	**31.10**	EIRP	1.288
HSDPA Band II	**23.86**	EIRP	0.243
HSUPA Band II	**24.86**	EIRP	0.306
WCDMA Band V	**23.80**	ERP	0.240
HSDPA Band V	**23.12**	ERP	0.205
HSUPA Band V	**22.85**	ERP	0.193
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	**30.33**	EIRP	1.079
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	**31.22**	EIRP	1.324
LTE-Band 2 (Bandwidth 3MHz) QPSK	**32.53**	EIRP	1.791
LTE-Band 2 (Bandwidth 3MHz) 16QAM	**31.07**	EIRP	1.279
LTE-Band 2 (Bandwidth 5MHz) QPSK	**31.14**	EIRP	1.300
LTE-Band 2 (Bandwidth 5MHz) 16QAM	**31.11**	EIRP	1.291
LTE-Band 2 (Bandwidth 10MHz) QPSK	**30.75**	EIRP	1.189
LTE-Band 2 (Bandwidth 10MHz) 16QAM	**29.20**	EIRP	0.832
LTE-Band 2 (Bandwidth 15MHz) QPSK	**29.40**	EIRP	0.871
LTE-Band 2 (Bandwidth 15MHz) 16QAM	**30.61**	EIRP	1.151
LTE-Band 2 (Bandwidth 20MHz) QPSK	**29.55**	EIRP	0.902
LTE-Band 2 (Bandwidth 20MHz) 16QAM	**29.97**	EIRP	0.993
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	**27.72**	EIRP	0.592
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	**27.51**	EIRP	0.564
LTE-Band 4 (Bandwidth 3MHz) QPSK	**29.66**	EIRP	0.925
LTE-Band 4 (Bandwidth 3MHz) 16QAM	**27.26**	EIRP	0.532
LTE-Band 4 (Bandwidth 5MHz) QPSK	**28.35**	EIRP	0.684
LTE-Band 4 (Bandwidth 5MHz) 16QAM	**28.18**	EIRP	0.658
LTE-Band 4 (Bandwidth 10MHz) QPSK	**28.19**	EIRP	0.659
LTE-Band 4 (Bandwidth 10MHz) 16QAM	**28.27**	EIRP	0.671
LTE-Band 4 (Bandwidth 15MHz) QPSK	**27.37**	EIRP	0.546
LTE-Band 4 (Bandwidth 15MHz) 16QAM	**28.07**	EIRP	0.641
LTE-Band 4 (Bandwidth 20MHz) QPSK	**26.83**	EIRP	0.482
LTE-Band 4 (Bandwidth 20MHz) 16QAM	**26.98**	EIRP	0.499

	dBm		W
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	**25.81**	ERP	0.381
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	**25.75**	ERP	0.376
LTE-Band 5 (Bandwidth 3MHz) QPSK	**25.62**	ERP	0.365
LTE-Band 5 (Bandwidth 3MHz) 16QAM	**24.96**	ERP	0.313
LTE-Band 5 (Bandwidth 5MHz) QPSK	**25.49**	ERP	0.354
LTE-Band 5 (Bandwidth 5MHz) 16QAM	**25.50**	ERP	0.355
LTE-Band 5 (Bandwidth 10MHz) QPSK	**25.27**	ERP	0.337
LTE-Band 5 (Bandwidth 10MHz) 16QAM	**25.39**	ERP	0.346
LTE-Band 7 (Bandwidth 5MHz) QPSK	**26.84**	EIRP	0.483
LTE-Band 7 (Bandwidth 5MHz) 16QAM	**26.53**	EIRP	0.450
LTE-Band 7 (Bandwidth 10MHz) QPSK	**32.11**	EIRP	1.626
LTE-Band 7 (Bandwidth 10MHz) 16QAM	**31.50**	EIRP	1.413
LTE-Band 7 (Bandwidth 15MHz) QPSK	**26.65**	EIRP	0.462
LTE-Band 7 (Bandwidth 15MHz) 16QAM	**26.36**	EIRP	0.433
LTE-Band 7 (Bandwidth 20MHz) QPSK	**26.58**	EIRP	0.455
LTE-Band 7 (Bandwidth 20MHz) 16QAM	**26.56**	EIRP	0.453
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	**25.76**	ERP	0.377
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	**22.02**	ERP	0.159
LTE-Band 12 (Bandwidth 3MHz) QPSK	**21.19**	ERP	0.132
LTE-Band 12 (Bandwidth 3MHz) 16QAM	**21.33**	ERP	0.136
LTE-Band 12 (Bandwidth 5MHz) QPSK	**21.16**	ERP	0.131
LTE-Band 12 (Bandwidth 5MHz) 16QAM	**25.68**	ERP	0.370
LTE-Band 12 (Bandwidth 10MHz) QPSK	**21.24**	ERP	0.133
LTE-Band 12 (Bandwidth 10MHz) 16QAM	**21.17**	ERP	0.131
LTE-Band 13 (Bandwidth 5MHz) QPSK	**22.07**	ERP	0.161
LTE-Band 13 (Bandwidth 5MHz) 16QAM	**23.87**	ERP	0.244
LTE-Band 13 (Bandwidth 10MHz) QPSK	**24.51**	ERP	0.282
LTE-Band 13 (Bandwidth 10MHz) 16QAM	**22.90**	ERP	0.195
LTE-Band 25 (Bandwidth 1.4MHz) QPSK	**27.37**	EIRP	0.546
LTE-Band 25 (Bandwidth 1.4MHz) 16QAM	**27.43**	EIRP	0.553
LTE-Band 25 (Bandwidth 3MHz) QPSK	**31.36**	EIRP	1.368
LTE-Band 25 (Bandwidth 3MHz) 16QAM	**27.19**	EIRP	0.524

	dBm		W
LTE-Band 25 (Bandwidth 5MHz) QPSK	**28.47**	EIRP	0.703
LTE-Band 25 (Bandwidth 5MHz) 16QAM	**27.75**	EIRP	0.596
LTE-Band 25 (Bandwidth 10MHz) QPSK	**29.59**	EIRP	0.910
LTE-Band 25 (Bandwidth 10MHz) 16QAM	**29.54**	EIRP	0.899
LTE-Band 25 (Bandwidth 15MHz) QPSK	**29.50**	EIRP	0.891
LTE-Band 25 (Bandwidth 15MHz) 16QAM	**29.40**	EIRP	0.871
LTE-Band 25 (Bandwidth 20MHz) QPSK	**31.05**	EIRP	1.274
LTE-Band 25 (Bandwidth 20MHz) 16QAM	**30.51**	EIRP	1.125
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	**26.05**	ERP	0.403
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	**25.64**	ERP	0.366
LTE-Band 26 (Bandwidth 3MHz) QPSK	**24.89**	ERP	0.308
LTE-Band 26 (Bandwidth 3MHz) 16QAM	**25.66**	ERP	0.368
LTE-Band 26 (Bandwidth 5MHz) QPSK	**25.59**	ERP	0.362
LTE-Band 26 (Bandwidth 5MHz) 16QAM	**25.74**	ERP	0.375
LTE-Band 26 (Bandwidth 10MHz) QPSK	**25.51**	ERP	0.356
LTE-Band 26 (Bandwidth 10MHz) 16QAM	**25.58**	ERP	0.361
LTE-Band 26 (Bandwidth 15MHz) QPSK	**25.52**	ERP	0.356
LTE-Band 26 (Bandwidth 15MHz) 16QAM	**25.45**	ERP	0.351
LTE-Band 30 (Bandwidth 5MHz) QPSK	**30.63**	EIRP	1.156
LTE-Band 30 (Bandwidth 5MHz) 16QAM	**30.17**	EIRP	1.040
LTE-Band 30 (Bandwidth 10MHz) QPSK	**30.49**	EIRP	1.119
LTE-Band 30 (Bandwidth 10MHz) 16QAM	**30.80**	EIRP	1.202
LTE-Band 41 (Bandwidth 5MHz) QPSK	**30.57**	EIRP	1.140
LTE-Band 41 (Bandwidth 5MHz) 16QAM	**28.47**	EIRP	0.703
LTE-Band 41 (Bandwidth 10MHz) QPSK	**28.98**	EIRP	0.791
LTE-Band 41 (Bandwidth 10MHz) 16QAM	**27.91**	EIRP	0.618
LTE-Band 41 (Bandwidth 15MHz) QPSK	**29.46**	EIRP	0.883
LTE-Band 41 (Bandwidth 15MHz) 16QAM	**29.56**	EIRP	0.904
LTE-Band 41 (Bandwidth 20MHz) QPSK	**29.54**	EIRP	0.899
LTE-Band 41 (Bandwidth 20MHz) 16QAM	**30.01**	EIRP	1.002

LTE Band 26 for Part 90S

	dBm		W
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	**26.50**	ERP	0.447
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	**26.10**	ERP	0.407
LTE-Band 26 (Bandwidth 3MHz) QPSK	**26.45**	ERP	0.442
LTE-Band 26 (Bandwidth 3MHz) 16QAM	**26.22**	ERP	0.419
LTE-Band 26 (Bandwidth 5MHz) QPSK	**26.35**	ERP	0.432
LTE-Band 26 (Bandwidth 5MHz) 16QAM	**26.19**	ERP	0.416
LTE-Band 26 (Bandwidth 10MHz) QPSK	**25.42**	ERP	0.348
LTE-Band 26 (Bandwidth 10MHz) 16QAM	**25.38**	ERP	0.345

1.2. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 735305

1.4. Special Accessories

No special accessories were used during testing.

1.5. Equipment Modifications

There were no modifications incorporated into the EUT.

2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 0.5 dB for low band and 0.6 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.5+10=10.5(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =0.6+10=10.6(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	12 Vdc	1.21
WCDMA B5	12 Vdc	1.22
LTE Band 2	12 Vdc	1.29
LTE Band 4	12 Vdc	1.26
LTE Band 5	12 Vdc	1.22
LTE Band 7	12 Vdc	1.26
LTE Band 12	12 Vdc	1.25
LTE Band 13	12 Vdc	1.21
LTE Band 25	12 Vdc	1.26
LTE Band 26	12 Vdc	1.14
LTE Band 26 (Part 90S)	12 Vdc	1.14
LTE Band 30	12 Vdc	1.23
LTE Band 41	12 Vdc	1.19

2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

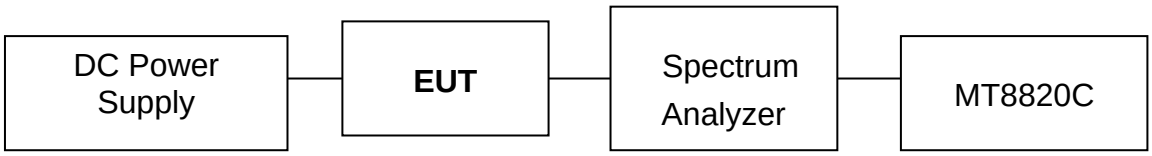
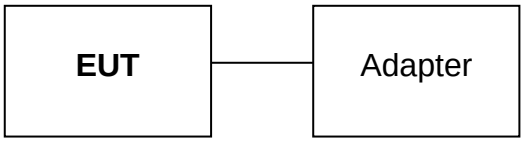


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

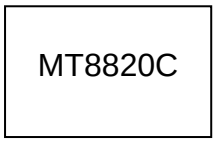


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	ERP/ EIRP measure-ment	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spu-rious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant

4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 25	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 26 (Part 90S)	E2-plan	E2-plan
LTE Bnad 30	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-plan

WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9583	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9583	WCDMA Band II WCDMA Band V
CONDCUDETED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9583	WCDMA Band II WCDMA Band V

LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18625 to 19175	18625, 18900, 19175	3MHz	QPSK	1 RB, 14 RB Offest

LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20000 to 20350	20000, 20175, 20350	3MHz	QPSK,	1 RB, 0 RB Offest

LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	1.4MHz	QPSK	1 RB, 0 RB Offest

LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	10MHz	QPSK	1 RB, 49 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23035 to 23155	23035, 23095, 23155	1.4MHz	QPSK	1 RB, 0 RB Offest

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	10MHz	QPSK	1 RB/ 0 RB Offest

LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDETED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	26065 to 26665	26065, 26365, 26665	3MHz	QPSK,	1 RB/ 0 RB Offset

LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	1.4MHz	QPSK,	1 RB, 0 RB Offest

LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	1.4MHz	QPSK,	1 RB, 0 RB Offest

LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	40165 to 41215	40165, 40690, 41215	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	40240 to 41140	40340 , 40690, 41140	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	40165 to 41215	40165, 40690, 41215	5MHz	QPSK, 16QAM	Full RB
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK, 16QAM	Full RB
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK, 16QAM	Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	40165 to 41215	40165, 40690, 41215	5MHz	16QAM	Full RB
	40190 to 41190	40190 , 40690, 41190	10MHz	16QAM	Full RB
	40215 to 41165	40215 , 40690, 41165	15MHz	16QAM	Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	16QAM	Full RB
BAND EDGE	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB, 0 RB Offest
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB, 0 RB Offest
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	40165 to 41215	40165, 40690, 41215	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	40190 to 41190	40190 , 40690, 41190	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	40215 to 41165	40215 , 40690, 41165	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	40240 to 41140	40240 , 40690, 41140	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	10MHz	16QAM	1 RB, 0 RB Offest

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : **Horizontal**)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

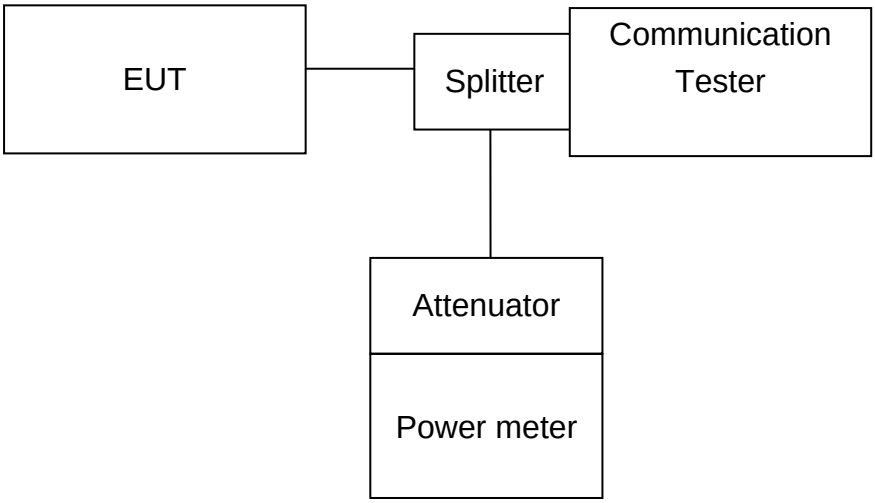
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.2. Test Set-up



Note: *Measurement setup for testing on Antenna connector*

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode		WCDMA Band II	HSDPA Band II	HSUPA Band II
Frequency (MHz)	**CH**	**Avg. Power (dBm)**	**Avg. Power (dBm)**	**Avg. Power (dBm)**
1852.4	9262	**23.28**	22.39	23.16
1880.0	9400	23.17	22.85	22.83
1907.6	9538	23.07	22.37	22.30

EUT Mode		WCDMA Band V	HSDPA Band V	HSUPA Band V
Frequency (MHz)	**CH**	**Avg. Power (dBm)**	**Avg. Power (dBm)**	**Avg. Power (dBm)**
826.4	4132	**22.63**	22.32	22.29
836.6	4183	22.41	22.46	22.32
846.6	4233	22.47	22.15	22.08

LTE Result:

LTE Band 2

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	22.96	**23.20**	23.13	22.16	22.26	21.96
	1	5	22.95	23.16	23.19	21.93	22.26	22.03
	3	2	23.13	23.05	22.97	22.22	**22.36**	22.04
	6	0	22.07	22.02	21.90	20.99	20.95	20.81

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	23.09	23.17	22.84	22.10	22.10	22.07
	1	14	**23.35**	23.02	22.83	**22.22**	22.11	22.01
	8	4	22.21	22.10	21.93	21.27	21.25	21.09
	15	0	22.09	22.07	21.94	21.23	21.21	21.07

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	**23.22**	23.16	22.97	22.19	**22.36**	22.26
	1	24	23.15	23.03	23.04	22.29	22.18	22.18
	12	6	22.20	22.11	21.98	21.15	21.16	21.03
	25	0	22.07	21.86	21.95	21.14	21.03	20.91

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	23.25	**23.32**	23.09	22.40	22.62	22.40
	1	49	23.09	23.01	22.74	22.41	**22.63**	22.30
	25	12	22.36	22.19	22.09	21.22	21.18	21.08
	50	0	22.17	22.12	21.95	21.16	21.13	21.07

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	**22.95**	22.91	22.87	21.92	**22.09**	21.94
	1	74	22.86	22.74	22.66	22.04	21.91	22.03
	36	19	22.08	22.08	21.95	21.09	21.00	20.98
	75	0	22.02	22.01	21.91	20.89	20.88	20.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	23.25	**23.32**	23.09	22.40	22.62	22.40
	1	99	23.09	23.01	22.74	22.41	**22.63**	22.30
	50	25	22.36	22.19	22.09	21.22	21.18	21.08
	100	0	22.17	22.12	21.95	21.16	21.13	21.07

LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	**22.51**	22.35	22.22	21.93	**21.99**	21.42
	1	5	22.33	22.28	21.79	21.81	21.77	21.62
	3	2	22.46	22.29	21.93	21.57	21.30	20.91
	6	0	21.51	21.26	20.97	20.66	20.31	19.99

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	**22.60**	22.46	22.07	**22.03**	21.58	21.25
	1	14	22.49	22.15	21.84	21.98	21.41	21.41
	8	4	21.52	21.13	21.01	20.49	20.12	19.84
	15	0	21.45	21.08	20.95	20.40	20.04	19.88

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	**22.60**	22.46	22.07	**22.03**	21.58	21.25
	1	24	22.49	22.15	21.84	21.98	21.41	21.41
	12	6	21.52	21.13	21.01	20.49	20.12	19.84
	25	0	21.45	21.08	20.95	20.40	20.04	19.88

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	**22.57**	22.38	22.26	**21.90**	21.82	21.58
	1	49	22.34	22.31	21.99	21.66	21.48	21.35
	25	12	21.57	21.42	21.20	20.56	20.43	20.16
	50	0	**21.46**	21.21	21.15	20.51	20.25	20.17

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	**22.58**	22.34	22.20	**21.93**	21.55	21.37
	1	74	22.39	21.99	21.91	21.58	21.07	21.16
	36	19	21.54	21.33	21.24	20.50	20.21	20.20
	75	0	21.46	21.19	21.04	20.47	20.22	20.16

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	**22.52**	22.35	22.15	21.64	**21.66**	21.44
	1	99	22.26	21.86	21.74	21.33	21.12	21.08
	50	25	21.49	21.27	21.15	20.53	20.21	20.19
	100	0	21.41	21.27	21.13	20.50	20.29	20.25

LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	**23.14**	22.47	22.47	21.53	**21.96**	21.35
	1	5	22.59	22.66	22.34	21.84	21.65	21.43
	3	2	22.73	22.46	22.42	21.66	21.52	21.49
	6	0	21.64	21.31	21.33	20.64	20.47	20.25

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	**22.77**	22.32	22.22	22.13	21.86	21.88
	1	14	22.70	22.30	22.20	**22.34**	21.96	21.70
	8	4	21.62	21.39	21.28	20.73	20.30	20.35
	15	0	21.60	21.34	21.35	20.64	20.41	20.41

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	**22.69**	22.47	22.40	**22.09**	21.93	21.69
	1	24	22.48	22.29	22.47	21.98	21.81	22.00
	12	6	21.60	21.42	21.30	20.45	20.40	20.14
	25	0	21.59	21.39	21.24	20.62	20.44	20.17

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	**22.93**	22.54	22.42	**22.48**	21.86	21.75
	1	49	22.45	22.63	22.48	22.21	21.88	21.88
	25	12	21.62	21.36	21.47	20.60	20.36	20.45
	50	0	21.60	21.36	21.35	20.38	20.32	20.32

LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	21.53	21.61	21.55	20.88	**21.36**	20.80
	1	24	21.58	**22.07**	21.43	20.81	21.02	20.81
	12	6	20.50	20.74	20.42	19.36	19.74	19.52
	25	0	20.37	20.64	20.50	19.32	19.62	19.38

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	21.28	21.68	21.53	20.65	**20.97**	20.71
	1	49	**21.69**	21.64	21.49	20.92	20.93	20.59
	25	12	20.43	20.74	20.47	19.38	19.63	19.47
	50	0	20.47	20.67	20.45	19.44	19.67	19.44

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	21.32	21.38	21.07	20.45	20.61	20.33
	1	74	**21.55**	21.51	21.22	20.67	**20.74**	20.35
	36	19	20.60	20.59	20.26	19.57	19.59	19.27
	75	0	20.45	20.50	20.28	19.56	19.54	19.32

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	21.32	21.25	21.34	20.74	20.57	20.56
	1	99	**21.57**	21.29	21.22	**20.98**	20.81	20.53
	50	25	20.54	20.63	20.38	19.60	19.67	19.42
	100	0	20.52	20.52	20.36	19.58	19.64	19.38

LTE Band 12

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	**23.47**	23.22	22.87	**22.62**	22.30	22.16
	1	5	23.40	23.07	22.93	22.12	22.19	21.98
	3	2	23.22	23.02	23.03	22.37	22.10	22.06
	6	0	22.17	21.80	21.76	21.26	21.03	20.90

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	**23.24**	22.77	23.14	**22.36**	22.04	22.08
	1	14	23.23	23.09	22.75	22.31	22.07	22.15
	8	4	22.21	22.03	21.93	21.25	21.08	20.88
	15	0	22.12	21.99	21.93	21.20	20.98	20.94

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	**23.17**	23.06	23.06	**22.39**	22.00	22.07
	1	24	23.10	22.93	22.95	22.14	21.85	21.89
	12	6	22.13	21.92	22.02	21.12	20.91	20.90
	25	0	22.17	22.01	21.84	21.17	21.01	20.85

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	22.94	22.94	**23.39**	22.16	21.97	22.21
	1	49	23.08	22.97	22.98	**22.33**	22.23	21.89
	25	12	22.15	22.14	21.98	21.24	21.12	21.06
	50	0	22.04	22.08	21.95	21.04	21.03	20.90

LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	20.78	22.61	22.79	20.18	22.16	21.78
	1	24	**22.81**	22.53	22.67	**22.24**	21.86	22.22
	12	6	21.75	21.78	21.33	20.79	20.72	20.39
	25	0	21.75	21.64	21.69	20.87	20.78	20.69

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
				Channel (Mid) 23230			Channel (Mid) 23230	
10	1	0		21.70			20.34	
	1	49		**22.66**			**22.26**	
	25	12		21.85			20.60	
	50	0		21.91			20.80	

LTE Band 25

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26886	Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26886
1.4	1	0	20.79	19.91	20.14	19.83	19.21	18.96
	1	5	20.73	20.41	19.74	**19.88**	18.98	18.99
	3	2	**20.83**	20.20	19.93	19.83	19.35	19.04
	6	0	19.60	19.15	18.70	18.71	18.07	17.62

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675	Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675
3	1	0	**21.13**	20.28	19.91	**19.83**	19.10	18.83
	1	14	20.63	20.10	19.84	19.72	19.20	18.81
	8	4	19.90	19.24	18.95	19.12	18.40	18.11
	15	0	19.81	19.24	18.85	18.83	18.25	17.77

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665	Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665
5	1	0	**20.97**	20.50	20.27	**20.01**	19.53	19.33
	1	24	20.81	20.28	19.92	19.88	19.55	18.86
	12	6	19.70	19.26	19.11	18.81	18.29	18.17
	25	0	19.77	19.15	19.06	18.82	18.19	18.06

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 26640	Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 26640
10	1	0	**20.95**	20.44	20.12	**20.37**	19.88	19.67
	1	49	20.63	20.21	20.00	20.22	19.68	19.57
	25	12	19.66	19.25	18.84	18.71	18.29	17.74
	50	0	19.74	19.21	18.91	18.71	18.18	17.85

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615	Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615
15	1	0	**20.88**	20.51	19.88	**20.34**	19.95	19.42
	1	74	20.31	20.11	19.73	19.76	19.47	19.21
	36	19	19.90	19.38	19.03	18.95	18.35	17.99
	75	0	19.75	19.32	19.02	18.80	18.28	18.10

LTE Band 25_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615	Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615
20	1	0	**20.96**	20.53	19.89	**20.34**	19.76	19.39
	1	99	20.40	19.95	19.64	19.84	19.28	19.27
	50	25	19.73	19.30	18.92	18.65	18.35	18.02
	100	0	19.72	19.30	19.02	18.78	18.36	18.04

LTE Band 26

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033	Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033
1.4	1	0	22.96	**23.20**	23.13	22.16	22.26	21.96
	1	5	22.95	23.16	23.19	21.93	22.26	22.03
	3	2	23.13	23.05	22.97	22.22	**22.36**	22.04
	6	0	22.07	22.02	21.90	20.99	20.95	20.81

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26805	Channel (Mid) 26915	Channel (High) 27025	Channel (Low) 26805	Channel (Mid) 26915	Channel (High) 27025
3	1	0	22.96	22.52	22.46	**22.33**	21.97	21.92
	1	14	**23.11**	22.42	22.68	22.18	21.38	21.70
	8	4	21.91	21.50	21.56	20.94	20.65	20.52
	15	0	21.96	21.58	21.45	20.79	20.50	20.31

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015	Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015
5	1	0	**22.99**	22.59	22.47	22.19	21.50	21.76
	1	24	22.80	22.43	22.39	**22.37**	21.78	21.84
	12	6	21.96	21.52	21.52	20.82	20.48	20.49
	25	0	21.86	21.47	21.52	20.70	20.42	20.38

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26840	Channel (Mid) 26915	Channel (High) 26990	Channel (Low) 26840	Channel (Mid) 26915	Channel (High) 26990
10	1	0	**22.96**	22.65	22.62	**22.30**	22.14	21.96
	1	49	22.67	22.46	22.46	21.96	21.68	21.96
	25	12	21.81	21.38	21.49	20.74	20.44	20.44
	50	0	21.71	21.44	21.47	20.67	20.39	20.43

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965	Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965
15	1	0	**22.78**	22.74	22.44	**22.15**	21.86	21.77
	1	74	22.27	22.37	22.59	21.65	21.61	21.60
	36	19	21.68	21.55	21.52	20.68	20.54	20.46
	75	0	21.47	21.47	21.36	20.48	20.47	20.47

LTE Band 26 for Part90S

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26697	Channel (Mid) 26740	Channel (High) 26783	Channel (Low) 26697	Channel (Mid) 26740	Channel (High) 26783
1.4	1	0	23.04	23.06	**23.12**	**22.17**	22.16	22.12
	1	5	22.92	22.98	23.06	22.04	22.03	22.07
	3	2	22.79	22.91	22.73	21.95	21.88	21.74
	6	0	21.94	21.73	21.59	20.78	20.66	20.67

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26705	Channel (Mid) 26740	Channel (High) 26775	Channel (Low) 26705	Channel (Mid) 26740	Channel (High) 26775
3	1	0	**22.95**	22.85	22.73	22.27	22.24	22.25
	1	14	22.77	22.76	22.54	**22.29**	22.05	22.12
	8	4	21.77	21.69	21.64	20.72	20.64	20.71
	15	0	21.64	21.68	21.54	20.68	20.57	20.56

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26715	Channel (Mid) 26740	Channel (High) 26765	Channel (Low) 26715	Channel (Mid) 26740	Channel (High) 26765
5	1	0	22.94	**22.95**	22.71	**22.13**	**22.13**	22.07
	1	24	22.78	22.88	22.64	21.87	21.93	21.81
	12	6	21.80	21.76	21.62	20.64	20.70	20.64
	25	0	21.62	21.60	21.64	20.53	20.58	20.59

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
				Channel (Mid) 20525			Channel (Mid) 20525	
10	1	0		**22.86**			**22.23**	
	1	49		22.77			22.04	
	25	12		21.73			20.74	
	50	0		21.72			20.68	

LTE Band 30

LTE Band 30_Uplink frequency band : 2307.5 to 2312.5 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
			Channel (Low) 27685	Channel (Mid) 27710	Channel (High) 27735	Channel (Low) 27685	Channel (Mid) 27710	Channel (High) 27735
5	1	0	21.65	21.54	21.55	20.78	21.01	21.06
	1	24	**21.70**	21.53	21.35	**21.21**	20.95	20.46
	12	6	20.60	20.61	20.51	19.72	19.65	19.53
	25	0	20.59	20.56	20.45	19.65	19.56	19.51

LTE Band 30_Uplink frequency band : 2307.5 to 2312.5 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
				Channel (Mid) 27710			Channel (Mid) 27710	
10	1	0		**21.76**			**21.16**	
	1	49		21.67			21.02	
	25	12		20.63			19.53	
	50	0		20.64			19.58	

LTE Band 41

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 40165	Channel (Mid) 40690	Channel (High) 41215	Channel (Low) 40165	Channel (Mid) 40690	Channel (High) 41215
5	1	0	**21.78**	21.38	21.58	**21.28**	21.07	21.14
	1	24	21.59	21.33	21.54	21.09	20.93	21.06
	12	6	20.63	20.45	20.74	19.76	19.64	19.83
	25	0	20.51	20.37	20.69	19.50	19.32	19.61

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 40190	Channel (Mid) 40690	Channel (High) 41190	Channel (Low) 40190	Channel (Mid) 40690	Channel (High) 41190
10	1	0	21.52	21.29	**21.57**	**21.23**	20.95	21.07
	1	49	21.38	21.24	21.36	20.85	20.82	20.88
	25	12	20.53	20.48	20.68	19.56	19.48	19.59
	50	0	20.44	20.42	20.63	19.51	19.43	19.53

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 40215	Channel (Mid) 40690	Channel (High) 41165	Channel (Low) 40215	Channel (Mid) 40690	Channel (High) 41165
15	1	0	21.43	21.32	**21.66**	21.03	20.93	**21.15**
	1	74	21.12	21.23	21.28	20.66	20.85	20.83
	36	19	20.38	20.59	20.65	19.41	19.67	19.71
	75	0	20.31	20.54	20.53	19.34	19.55	19.62

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 40240	Channel (Mid) 40690	Channel (High) 41140	Channel (Low) 40240	Channel (Mid) 40690	Channel (High) 41140
20	1	0	21.32	21.25	21.34	20.74	20.57	20.56
	1	99	**21.57**	21.29	21.22	**20.98**	20.81	20.53
	50	25	20.54	20.63	20.38	19.60	19.67	19.42
	100	0	20.52	20.52	20.36	19.58	19.64	19.38

HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d ***(SF)***	β_c/β_d	β_{HS} (*Note1, Note 2*)	**CM (dB)** *(Note 3)*	**MPR (dB)** *(Note 3)*	**RMC (Kbps)**
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	**23.38**	22.83	22.33	20.3dBm – 25.7dBm	**Pass**
	2	23.4	22.81	22.35	20.3dBm – 25.7dBm	**Pass**
	3	22.87	22.32	21.82	19.8dBm – 25.7dBm	**Pass**
	4	22.85	22.31	21.79	19.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.27	22.39	**22.19**	20.3dBm – 25.7dBm	**Pass**
	2	22.24	22.36	22.14	20.3dBm – 25.7dBm	**Pass**
	3	21.76	21.78	22.22	19.8dBm – 25.7dBm	**Pass**
	4	21.74	21.74	22.15	19.8dBm – 25.7dBm	**Pass**

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed}1: 47/15 β_{ed}2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.36	**22.83**	22.3	18.8dBm – 25.7dBm	**Pass**
	2	22.79	22.28	21.75	16.8dBm – 25.7dBm	**Pass**
	3	23.38	22.82	22.29	17.8dBm – 25.7dBm	**Pass**
	4	23.34	22.77	22.29	16.8dBm – 25.7dBm	**Pass**
	5	23.38	22.84	22.31	18.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	22.3	**22.32**	22.08	18.8dBm – 25.7dBm	**Pass**
	2	22.73	22.78	22.58	16.8dBm – 25.7dBm	**Pass**
	3	22.29	22.32	22.09	17.8dBm – 25.7dBm	**Pass**
	4	22.25	22.33	22.15	16.8dBm – 25.7dBm	**Pass**
	5	22.31	22.34	22.19	18.8dBm – 25.7dBm	**Pass**

WCDMA/HSDPA/HSUPA band II, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

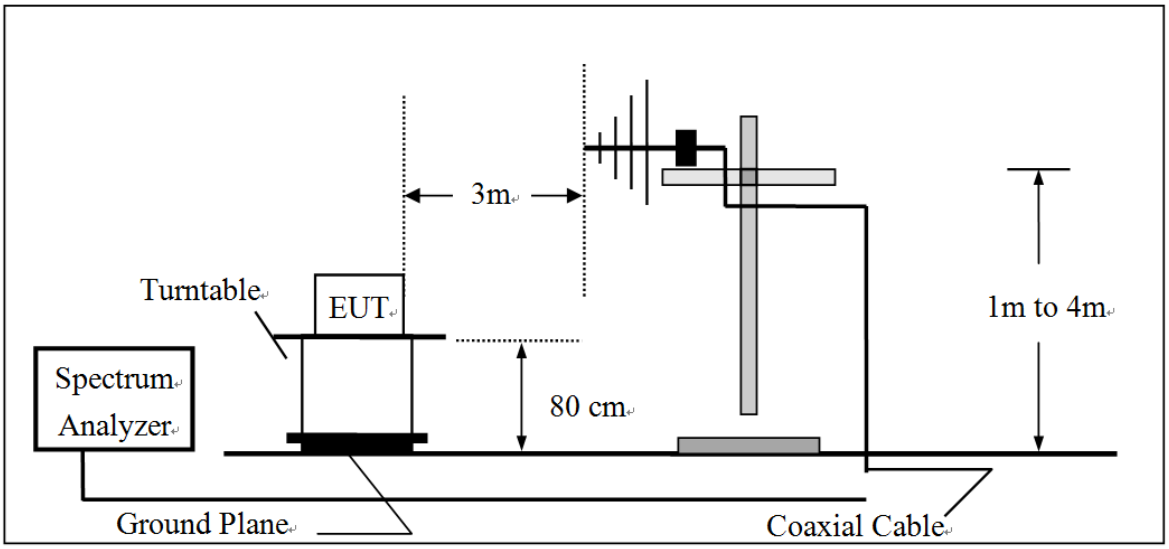
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

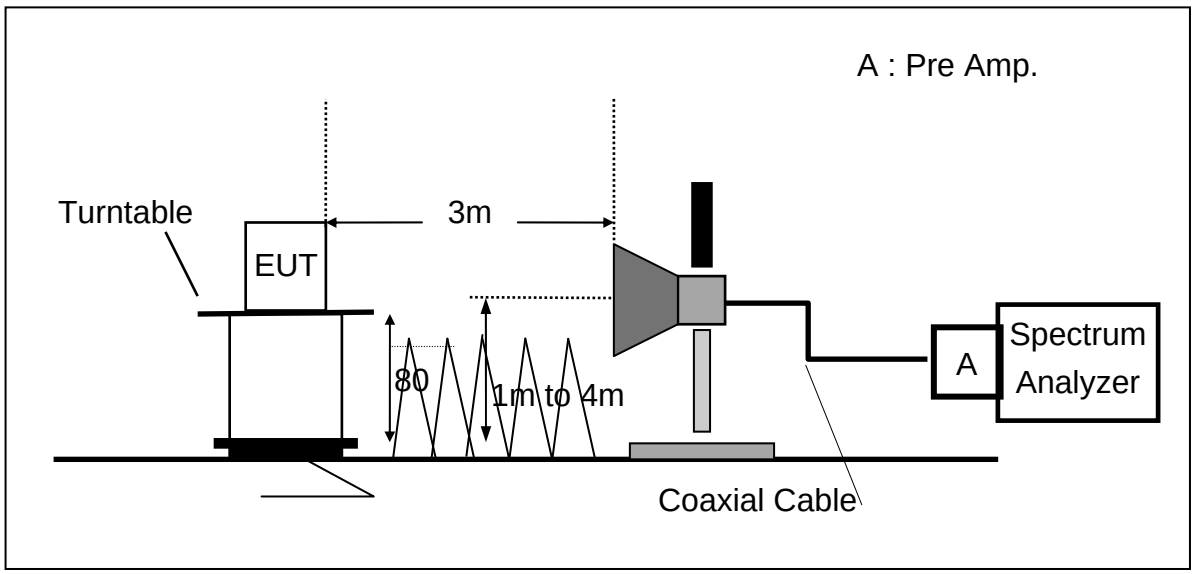
FCC 90.635(b) Mobile station is limited to 100W ERP

7.2. Test SET-UP

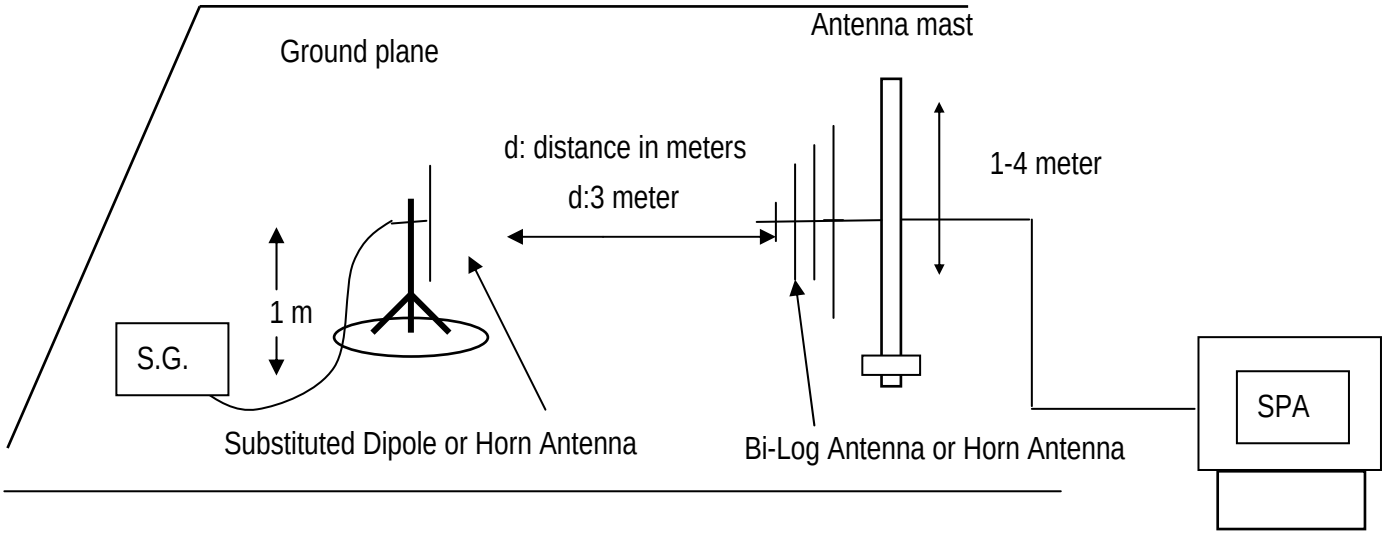
(A) Radiated Power Test Set-Up, Frequency Below1000MHz



(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G.
6. ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
7. ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
8. Spectrum setting:
   (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3xRBW.
   (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.
   Set frequency = nominal signal center frequency;
   Set span = 2 X occupied BW;
   Set RBW ≈ 1~5% of the span, not to exceed 1 MHz
   Set VBW = 3 x RBW;
   Select average power (RMS) detector
   Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweet time = 601*10^-3 = 6s.

   Activate trace averaging routine over a minimum of 10 sweeps;
   Activate marker/span pair and set span = signal or channel bandwidth;
   Activate the band/interval power marker function;
   Record the band power level;
   Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.
   The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of 10*log (TBW/RBW), where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	1852.4	9262	V	26.49	9.6	-5.05	31.04	33.00
			H	15.44	9.6	-5.05	19.99	33.00
	1880.0	9400	V	26.57	9.69	-5.16	**31.10**	33.00
			H	14.03	9.69	-5.16	18.56	33.00
	1907.6	9538	V	25.82	9.78	-5.12	30.48	33.00
			H	13.12	9.78	-5.12	17.78	33.00
HSDPA Band II	1852.4	9262	V	19.23	9.6	-5.05	23.78	33.00
			H	10.7	9.6	-5.05	15.25	33.00
	1880.0	9400	V	19.32	9.7	-5.16	**23.86**	33.00
			H	9.32	9.7	-5.16	13.86	33.00
	1907.6	9538	V	19.1	9.78	-5.12	23.76	33.00
			H	14.2	9.78	-5.12	18.86	33.00
HSUPA Band II	1852.4	9262	V	20.31	9.6	-5.05	**24.86**	33.00
			H	12.89	9.6	-5.05	17.44	33.00
	1880.0	9400	V	17.18	9.69	-5.16	21.71	33.00
			H	12.46	9.69	-5.16	16.99	33.00
	1907.6	9538	V	17.96	9.78	-5.12	22.62	33.00
			H	12.1	9.78	-5.12	16.76	33.00

Remark: The RBW,VBW of SPA for frequency RBW=5 MHz, VBW=8 MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
WCDMA Band V	826.4	4132	V	21.50	5.48	-3.21	23.77	38.45
			H	18.33	5.48	-3.21	20.60	38.45
	836.6	4183	V	21.59	5.47	-3.26	**23.80**	38.45
			H	19.51	5.47	-3.26	21.72	38.45
	846.6	4233	V	20.93	5.45	-3.19	23.19	38.45
			H	19.37	5.45	-3.19	21.63	38.45
HSDPA Band V	826.4	4132	V	18.35	5.48	-3.21	20.62	38.45
			H	17.92	5.48	-3.21	20.19	38.45
	836.6	4183	V	20.90	5.47	-3.25	**23.12**	38.45
			H	19.17	5.47	-3.25	21.39	38.45
	846.6	4233	V	20.03	5.45	-3.10	22.38	38.45
			H	16.87	5.45	-3.10	19.22	38.45
HSUPA Band V	826.4	4132	V	20.39	5.48	-3.21	22.66	38.45
			H	16.49	5.48	-3.21	18.76	38.45
	836.6	4183	V	20.65	5.47	-3.27	**22.85**	38.45
			H	17.97	5.47	-3.27	20.17	38.45
	846.6	4233	V	19.01	5.45	-3.16	21.30	38.45
			H	12.97	5.45	-3.16	15.26	38.45

Remark: The RBW,VBW of SPA for frequency RBW=5 MHz, VBW=8 MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	25.27	9.59	-5.04	29.82	33.01
			H	16.78	9.59	-5.04	21.33	33.01
	1880.0	18900	V	25.49	9.69	-5.15	**30.03**	33.01
			H	17.04	9.69	-5.15	21.58	33.01
	1909.3	19193	V	22.98	9.79	-5.13	27.64	33.01
			H	17.40	9.79	-5.13	22.06	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	25.16	9.60	-5.05	29.71	33.01
			H	16.16	9.60	-5.05	20.71	33.01
	1880.0	18900	V	25.79	9.70	-5.16	**30.33**	33.01
			H	16.95	9.70	-5.16	21.49	33.01
	1909.3	19193	V	24.68	9.79	-5.13	29.34	33.01
			H	17.39	9.79	-5.13	22.05	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	26.68	9.59	-5.05	**31.22**	33.01
			H	16.77	9.59	-5.05	21.31	33.01
	1880.0	18900	V	21.50	9.69	-5.15	26.04	33.01
			H	17.05	9.69	-5.15	21.59	33.01
	1909.3	19193	V	25.12	9.79	-5.13	29.78	33.01
			H	17.39	9.79	-5.13	22.05	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	25.17	9.60	-5.05	**29.72**	33.01
			H	16.75	9.60	-5.05	21.30	33.01
	1880.0	18900	V	25.17	9.69	-5.16	29.70	33.01
			H	17.03	9.69	-5.16	21.56	33.01
	1909.3	19193	V	24.20	9.79	-5.13	28.86	33.01
			H	17.42	9.79	-5.13	22.08	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	25.21	9.59	-5.05	29.75	33.01
			H	16.33	9.59	-5.05	20.87	33.01
	1880.0	18900	V	25.57	9.69	-5.15	**30.11**	33.01
			H	17.31	9.69	-5.15	21.85	33.01
	1908.5	19185	V	24.69	9.78	-5.12	29.35	33.01
			H	17.67	9.78	-5.12	22.33	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	27.98	9.60	-5.05	**32.53**	33.01
			H	15.77	9.60	-5.05	20.32	33.01
	1880.0	18900	V	27.74	9.70	-5.17	32.27	33.01
			H	16.85	9.70	-5.17	21.38	33.01
	1908.5	19185	V	26.67	9.79	-5.13	31.33	33.01
			H	17.45	9.79	-5.13	22.11	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	25.14	9.59	-5.05	29.68	33.01
			H	16.05	9.59	-5.05	20.59	33.01
	1880.0	18900	V	25.75	9.69	-5.15	**30.29**	33.01
			H	17.15	9.69	-5.15	21.69	33.01
	1908.5	19185	V	23.25	9.79	-5.12	27.92	33.01
			H	17.63	9.79	-5.12	22.30	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	26.52	9.60	-5.05	**31.07**	33.01
			H	15.61	9.60	-5.05	20.16	33.01
	1880.0	18900	V	24.64	9.70	-5.16	29.18	33.01
			H	16.98	9.70	-5.16	21.52	33.01
	1908.5	19185	V	26.40	9.80	-5.13	31.07	33.01
			H	17.41	9.80	-5.13	22.08	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	24.39	9.59	-5.05	28.93	33.01
			H	15.89	9.59	-5.05	20.43	33.01
	1880.0	18900	V	26.60	9.68	-5.14	**31.14**	33.01
			H	16.05	9.68	-5.14	20.59	33.01
	1907.5	19175	V	26.18	9.78	-5.12	30.84	33.01
			H	15.65	9.78	-5.12	20.31	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	21.53	9.61	-5.05	26.09	33.01
			H	15.69	9.61	-5.05	20.25	33.01
	1880.0	18900	V	25.15	9.70	-5.17	29.68	33.01
			H	15.78	9.70	-5.17	20.31	33.01
	1907.5	19175	V	26.20	9.79	-5.13	**30.86**	33.01
			H	17.39	9.79	-5.13	22.05	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	22.17	9.59	-5.05	26.71	33.01
			H	15.84	9.59	-5.05	20.38	33.01
	1880.0	18900	V	26.56	9.69	-5.14	**31.11**	33.01
			H	16.10	9.69	-5.14	20.65	33.01
	1907.5	19175	V	22.87	9.78	-5.11	27.54	33.01
			H	18.14	9.78	-5.11	22.81	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	24.87	9.61	-5.05	29.43	33.01
			H	15.38	9.61	-5.05	19.94	33.01
	1880.0	18900	V	26.04	9.70	-5.17	**30.57**	33.01
			H	15.01	9.70	-5.17	19.54	33.01
	1907.5	19175	V	25.68	9.79	-5.13	30.34	33.01
			H	17.48	9.79	-5.13	22.14	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	24.20	9.59	-5.05	28.74	33.01
			H	16.00	9.59	-5.05	20.54	33.01
	1880.0	18900	V	25.26	9.68	-5.13	**29.81**	33.01
			H	16.76	9.68	-5.13	21.31	33.01
	1905.0	19150	V	24.07	9.76	-5.11	28.72	33.01
			H	18.66	9.76	-5.11	23.31	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	22.21	9.62	-5.06	26.77	33.01
			H	15.62	9.62	-5.06	20.18	33.01
	1880.0	18900	V	22.96	9.71	-5.18	27.49	33.01
			H	16.07	9.71	-5.18	20.60	33.01
	1905.0	19150	V	26.09	9.79	-5.13	**30.75**	33.01
			H	17.38	9.79	-5.13	22.04	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	24.14	9.59	-5.05	**28.68**	33.01
			H	15.70	9.59	-5.05	20.24	33.01
	1880.0	18900	V	24.04	9.68	-5.13	28.59	33.01
			H	16.20	9.68	-5.13	20.75	33.01
	1905.0	19150	V	22.64	9.76	-5.11	27.29	33.01
			H	17.03	9.76	-5.11	21.68	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	23.00	9.62	-5.06	27.56	33.01
			H	15.66	9.62	-5.06	20.22	33.01
	1880.0	18900	V	24.47	9.71	-5.17	29.01	33.01
			H	16.02	9.71	-5.17	20.56	33.01
	1905.0	19150	V	24.54	9.79	-5.13	**29.20**	33.01
			H	17.35	9.79	-5.13	22.01	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	22.20	9.59	-5.05	26.74	33.01
			H	15.94	9.59	-5.05	20.48	33.01
	1880.0	18900	V	23.67	9.67	-5.12	28.22	33.01
			H	16.33	9.67	-5.12	20.88	33.01
	1902.5	19125	V	24.31	9.75	-5.12	**28.94**	33.01
			H	17.89	9.75	-5.12	22.52	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	23.80	9.64	-5.07	28.37	33.01
			H	14.68	9.64	-5.07	19.25	33.01
	1880.0	18900	V	24.85	9.71	-5.16	**29.40**	33.01
			H	16.06	9.71	-5.16	20.61	33.01
	1902.5	19125	V	21.32	9.79	-5.13	25.98	33.01
			H	16.96	9.79	-5.13	21.62	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	21.71	9.59	-5.05	26.25	33.01
			H	15.66	9.59	-5.05	20.20	33.01
	1880.0	18900	V	23.63	9.67	-5.11	28.19	33.01
			H	15.29	9.67	-5.11	19.85	33.01
	1902.5	19125	V	25.98	9.75	-5.12	**30.61**	33.01
			H	18.12	9.75	-5.12	22.75	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	21.70	9.64	-5.07	26.27	33.01
			H	14.73	9.64	-5.07	19.30	33.01
	1880.0	18900	V	23.32	9.71	-5.17	27.86	33.01
			H	15.92	9.71	-5.17	20.46	33.01
	1902.5	19125	V	24.84	9.79	-5.13	**29.50**	33.01
			H	16.54	9.79	-5.13	21.20	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	24.27	9.59	-5.04	28.82	33.01
			H	13.99	9.59	-5.04	18.54	33.01
	1880.0	18900	V	23.67	9.66	-5.10	28.23	33.01
			H	15.94	9.66	-5.10	20.50	33.01
	1900.0	19100	V	24.97	9.73	-5.15	**29.55**	33.01
			H	15.88	9.73	-5.15	20.46	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	22.24	9.66	-5.90	26.00	33.01
			H	15.33	9.66	-5.90	19.09	33.01
	1880.0	18900	V	24.19	9.72	-5.15	**28.76**	33.01
			H	15.29	9.72	-5.15	19.86	33.01
	1900.0	19100	V	21.66	9.79	-5.13	26.32	33.01
			H	16.71	9.79	-5.13	21.37	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	22.16	9.59	-5.05	26.70	33.01
			H	15.52	9.59	-5.05	20.06	33.01
	1880.0	18900	V	23.44	9.66	-5.10	28.00	33.01
			H	15.00	9.66	-5.10	19.56	33.01
	1900.0	19100	V	25.39	9.73	-5.15	**29.97**	33.01
			H	15.88	9.73	-5.15	20.46	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	23.75	9.66	-5.09	28.32	33.01
			H	15.57	9.66	-5.09	20.14	33.01
	1880.0	18900	V	25.08	9.72	-5.15	**29.65**	33.01
			H	16.38	9.72	-5.15	20.95	33.01
	1900.0	19100	V	23.99	9.79	-5.13	28.65	33.01
			H	16.99	9.79	-5.13	21.65	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	23.42	9.12	-4.82	**27.72**	30.00
			H	9.63	9.12	-4.82	13.93	30.00
	1732.5	20175	V	22.29	9.19	-4.85	26.63	30.00
			H	8.31	9.19	-4.85	12.65	30.00
	1754.3	20393	V	20.89	9.27	-4.91	25.25	30.00
			H	5.04	9.27	-4.91	9.40	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	23.24	9.12	-4.82	**27.54**	30.00
			H	9.37	9.12	-4.82	13.67	30.00
	1732.5	20175	V	22.08	9.19	-4.86	26.41	30.00
			H	8.01	9.19	-4.86	12.34	30.00
	1754.3	20393	V	20.48	9.27	-4.91	24.84	30.00
			H	4.65	9.27	-4.91	9.01	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	23.16	9.12	-4.82	**27.46**	30.00
			H	9.41	9.12	-4.82	13.71	30.00
	1732.5	20175	V	22.12	9.19	-4.86	26.45	30.00
			H	8.22	9.19	-4.86	12.55	30.00
	1754.3	20393	V	20.83	9.26	-4.91	25.18	30.00
			H	5.05	9.26	-4.91	9.40	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	23.21	9.12	-4.82	**27.51**	30.00
			H	9.33	9.12	-4.82	13.63	30.00
	1732.5	20175	V	21.93	9.19	-4.85	26.27	30.00
			H	7.97	9.19	-4.85	12.31	30.00
	1754.3	20393	V	20.34	9.27	-4.91	24.70	30.00
			H	4.65	9.27	-4.91	9.01	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	25.36	9.12	-4.82	**29.66**	30.00
			H	17.68	9.12	-4.82	21.98	30.00
	1732.5	20175	V	24.72	9.19	-4.85	29.06	30.00
			H	15.79	9.19	-4.85	20.13	30.00
	1753.5	20385	V	24.86	9.26	-4.91	29.21	30.00
			H	15.28	9.26	-4.91	19.63	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	22.86	9.12	-4.82	**27.16**	30.00
			H	17.86	9.12	-4.82	22.16	30.00
	1732.5	20175	V	21.78	9.20	-4.86	26.12	30.00
			H	15.36	9.20	-4.86	19.70	30.00
	1753.5	20385	V	19.72	9.27	-4.91	24.08	30.00
			H	14.30	9.27	-4.91	18.66	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	22.96	9.12	-4.82	**27.26**	30.00
			H	17.60	9.12	-4.82	21.90	30.00
	1732.5	20175	V	22.07	9.19	-4.85	26.41	30.00
			H	15.80	9.19	-4.85	20.14	30.00
	1753.5	20385	V	20.96	9.26	-4.91	25.31	30.00
			H	15.45	9.26	-4.91	19.80	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	22.66	9.13	-4.82	**26.97**	30.00
			H	17.82	9.13	-4.82	22.13	30.00
	1732.5	20175	V	21.80	9.20	-4.87	26.13	30.00
			H	15.40	9.20	-4.87	19.73	30.00
	1753.5	20385	V	19.87	9.26	-4.91	24.22	30.00
			H	15.88	9.26	-4.91	20.23	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	24.05	9.12	-4.82	**28.35**	30.00
			H	13.75	9.12	-4.82	18.05	30.00
	1732.5	20175	V	23.95	9.18	-4.85	28.28	30.00
			H	13.79	9.18	-4.85	18.12	30.00
	1752.5	20375	V	23.00	9.25	-4.91	27.34	30.00
			H	13.40	9.25	-4.91	17.74	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	23.13	9.13	-4.83	27.43	30.00
			H	13.16	9.13	-4.83	17.46	30.00
	1732.5	20175	V	23.35	9.20	-4.86	**27.69**	30.00
			H	13.87	9.20	-4.86	18.21	30.00
	1752.5	20375	V	21.39	9.26	-4.91	25.74	30.00
			H	12.30	9.26	-4.91	16.65	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	23.67	9.12	-4.82	27.97	30.00
			H	13.43	9.12	-4.82	17.73	30.00
	1732.5	20175	V	23.85	9.18	-4.85	**28.18**	30.00
			H	13.78	9.18	-4.85	18.11	30.00
	1752.5	20375	V	22.95	9.25	-4.91	27.29	30.00
			H	13.34	9.25	-4.91	17.68	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	23.22	9.13	-4.83	27.52	30.00
			H	13.36	9.13	-4.83	17.66	30.00
	1732.5	20175	V	23.26	9.20	-4.86	**27.60**	30.00
			H	13.88	9.20	-4.86	18.22	30.00
	1752.5	20375	V	21.40	9.27	-4.91	25.76	30.00
			H	12.41	9.27	-4.91	16.77	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	23.89	9.12	-4.82	**28.19**	30.00
			H	15.06	9.12	-4.82	19.36	30.00
	1732.5	20175	V	22.78	9.18	-4.85	27.11	30.00
			H	13.68	9.18	-4.85	18.01	30.00
	1750.0	20350	V	23.53	9.23	-4.90	27.86	30.00
			H	12.83	9.23	-4.90	17.16	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	23.44	9.15	-4.83	**27.76**	30.00
			H	14.02	9.15	-4.83	18.34	30.00
	1732.5	20175	V	22.83	9.20	-4.87	27.16	30.00
			H	13.86	9.20	-4.87	18.19	30.00
	1750.0	20350	V	20.55	9.27	-4.91	24.91	30.00
			H	10.81	9.27	-4.91	15.17	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	23.97	9.12	-4.82	**28.27**	30.00
			H	15.19	9.12	-4.82	19.49	30.00
	1732.5	20175	V	22.80	9.18	-4.84	27.14	30.00
			H	13.66	9.18	-4.84	18.00	30.00
	1750.0	20350	V	23.65	9.23	-4.90	27.98	30.00
			H	12.88	9.23	-4.90	17.21	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	23.45	9.15	-4.83	**27.77**	30.00
			H	13.97	9.15	-4.83	18.29	30.00
	1732.5	20175	V	22.79	9.21	-4.87	27.13	30.00
			H	13.88	9.21	-4.87	18.22	30.00
	1750.0	20350	V	20.67	9.27	-4.91	25.03	30.00
			H	11.02	9.27	-4.91	15.38	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	22.83	9.12	-4.82	**27.13**	30.00
			H	18.70	9.12	-4.82	23.00	30.00
	1732.5	20175	V	21.96	9.17	-4.84	26.29	30.00
			H	17.24	9.17	-4.84	21.57	30.00
	1747.5	20325	V	21.38	9.22	-4.88	25.72	30.00
			H	17.24	9.22	-4.88	21.58	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	22.98	9.16	-4.84	27.30	30.00
			H	14.55	9.16	-4.84	18.87	30.00
	1732.5	20175	V	23.04	9.21	-4.88	**27.37**	30.00
			H	14.35	9.21	-4.88	18.68	30.00
	1747.5	20325	V	21.29	9.26	-4.91	25.64	30.00
			H	11.39	9.26	-4.91	15.74	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	23.42	9.12	-4.82	27.72	30.00
			H	15.69	9.12	-4.82	19.99	30.00
	1732.5	20175	V	23.39	9.17	-4.84	27.72	30.00
			H	14.75	9.17	-4.84	19.08	30.00
	1747.5	20325	V	23.73	9.22	-4.88	**28.07**	30.00
			H	14.35	9.22	-4.88	18.69	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	23.52	9.16	-4.84	**27.84**	30.00
			H	14.21	9.16	-4.84	18.53	30.00
	1732.5	20175	V	23.31	9.22	-4.88	27.65	30.00
			H	14.08	9.22	-4.88	18.42	30.00
	1747.5	20325	V	21.05	9.26	-4.91	25.40	30.00
			H	11.20	9.26	-4.91	15.55	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	21.81	9.12	-4.82	26.11	30.00
			H	9.29	9.12	-4.82	13.59	30.00
	1732.5	20175	V	21.46	9.16	-4.84	25.78	30.00
			H	10.91	9.16	-4.84	15.23	30.00
	1745.0	20300	V	21.99	9.20	-4.87	**26.32**	30.00
			H	9.85	9.20	-4.87	14.18	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.68	9.18	-4.85	26.01	30.00
			H	10.29	9.18	-4.85	14.62	30.00
	1732.5	20175	V	22.49	9.22	-4.88	**26.83**	30.00
			H	10.72	9.22	-4.88	15.06	30.00
	1745.0	20300	V	18.66	9.26	-4.91	23.01	30.00
			H	8.62	9.26	-4.91	12.97	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	22.14	9.11	-4.82	**26.43**	30.00
			H	9.29	9.11	-4.82	13.58	30.00
	1732.5	20175	V	22.07	9.16	-4.84	26.39	30.00
			H	10.76	9.16	-4.84	15.08	30.00
	1745.0	20300	V	21.95	9.20	-4.86	26.29	30.00
			H	9.81	9.20	-4.86	14.15	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	21.75	9.18	-4.85	26.08	30.00
			H	10.35	9.18	-4.85	14.68	30.00
	1732.5	20175	V	22.64	9.22	-4.88	**26.98**	30.00
			H	10.15	9.22	-4.88	14.49	30.00
	1745.0	20300	V	18.88	9.26	-4.91	23.23	30.00
			H	8.82	9.26	-4.91	13.17	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	24.70	5.49	-3.30	**26.89**	38.45
			H	21.16	5.49	-3.30	23.35	38.45
	836.5	20525	V	23.68	5.47	-3.35	25.80	38.45
			H	21.82	5.47	-3.35	23.94	38.45
	848.3	20643	V	21.56	5.45	-3.07	23.94	38.45
			H	21.08	5.45	-3.07	23.46	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	23.58	5.48	-3.25	**25.81**	38.45
			H	20.86	5.48	-3.25	23.09	38.45
	836.5	20525	V	23.25	5.47	-3.28	25.44	38.45
			H	21.58	5.47	-3.28	23.77	38.45
	848.3	20643	V	21.05	5.45	-3.08	23.42	38.45
			H	20.18	5.45	-3.08	22.55	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	23.59	5.49	-3.33	**25.75**	38.45
			H	18.70	5.49	-3.33	20.86	38.45
	836.5	20525	V	22.78	5.47	-3.35	24.90	38.45
			H	18.71	5.47	-3.35	20.83	38.45
	848.3	20643	V	21.27	5.45	-3.08	23.64	38.45
			H	19.73	5.45	-3.08	22.10	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	23.26	5.48	-3.22	**25.52**	38.45
			H	18.38	5.48	-3.22	20.64	38.45
	836.5	20525	V	22.64	5.47	-3.26	24.85	38.45
			H	18.71	5.47	-3.26	20.92	38.45
	848.3	20643	V	20.44	5.45	-3.10	22.79	38.45
			H	18.91	5.45	-3.10	21.26	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	23.45	5.49	-3.32	**25.62**	38.45
			H	18.48	5.49	-3.32	20.65	38.45
	836.5	20525	V	22.70	5.47	-3.56	24.61	38.45
			H	18.34	5.47	-3.56	20.25	38.45
	847.5	20635	V	20.82	5.48	-3.21	23.09	38.45
			H	19.35	5.48	-3.21	21.62	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	22.62	5.48	-3.21	**24.89**	38.45
			H	17.75	5.48	-3.21	20.02	38.45
	836.5	20525	V	21.66	5.47	-3.29	23.84	38.45
			H	18.14	5.47	-3.29	20.32	38.45
	847.5	20635	V	20.23	5.45	-3.08	22.60	38.45
			H	18.64	5.45	-3.08	21.01	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	22.65	5.48	-3.21	**24.92**	38.45
			H	18.20	5.48	-3.21	20.47	38.45
	836.5	20525	V	21.70	5.47	-3.24	23.93	38.45
			H	18.02	5.47	-3.24	20.25	38.45
	847.5	20635	V	20.53	5.45	-3.16	22.82	38.45
			H	19.01	5.45	-3.16	21.30	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	22.69	5.48	-3.21	**24.96**	38.45
			H	17.95	5.48	-3.21	20.22	38.45
	836.5	20525	V	21.77	5.47	-3.23	24.01	38.45
			H	18.12	5.47	-3.23	20.36	38.45
	847.5	20635	V	20.46	5.45	-3.11	22.80	38.45
			H	18.95	5.45	-3.11	21.29	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	23.32	5.49	-3.32	**25.49**	38.45
			H	18.36	5.49	-3.32	20.53	38.45
	836.5	20525	V	22.73	5.47	-3.37	24.83	38.45
			H	18.04	5.47	-3.37	20.14	38.45
	846.5	20625	V	19.83	5.46	-3.46	21.83	38.45
			H	17.96	5.46	-3.46	19.96	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	22.43	5.48	-3.17	**24.74**	38.45
			H	17.47	5.48	-3.17	19.78	38.45
	836.5	20525	V	21.10	5.47	-3.12	23.45	38.45
			H	17.70	5.47	-3.12	20.05	38.45
	846.5	20625	V	20.41	5.45	-3.08	22.78	38.45
			H	18.84	5.45	-3.08	21.21	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	23.33	5.49	-3.32	**25.50**	38.45
			H	18.51	5.49	-3.32	20.68	38.45
	836.5	20525	V	22.65	5.47	-3.40	24.72	38.45
			H	18.20	5.47	-3.40	20.27	38.45
	846.5	20625	V	19.81	5.46	-3.46	21.81	38.45
			H	17.94	5.46	-3.46	19.94	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	22.32	5.48	-3.16	**24.64**	38.45
			H	17.43	5.48	-3.16	19.75	38.45
	836.5	20525	V	21.67	5.47	-3.13	24.01	38.45
			H	17.73	5.47	-3.13	20.07	38.45
	846.5	20625	V	20.53	5.45	-3.11	22.87	38.45
			H	18.99	5.45	-3.11	21.33	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	23.12	5.49	-3.34	**25.27**	38.45
			H	18.25	5.49	-3.34	20.40	38.45
	836.5	20525	V	22.50	5.47	-3.51	24.46	38.45
			H	17.75	5.47	-3.51	19.71	38.45
	844.0	20600	V	20.41	5.46	-3.31	22.56	38.45
			H	17.33	5.46	-3.31	19.48	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	22.47	5.47	-3.45	**24.49**	38.45
			H	17.80	5.47	-3.45	19.82	38.45
	836.5	20525	V	20.56	5.46	-3.48	22.54	38.45
			H	17.83	5.46	-3.48	19.81	38.45
	844.0	20600	V	20.51	5.45	-3.08	22.88	38.45
			H	18.96	5.45	-3.08	21.33	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	829.0	20450	V	23.24	5.49	-3.34	**25.39**	38.45
			H	18.37	5.49	-3.34	20.52	38.45
	836.5	20525	V	22.50	5.48	-3.50	24.48	38.45
			H	18.27	5.48	-3.50	20.25	38.45
	844.0	20600	V	20.38	5.46	-3.22	22.62	38.45
			H	17.51	5.46	-3.22	19.75	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	22.43	5.47	-3.51	**24.39**	38.45
			H	17.95	5.47	-3.51	19.91	38.45
	836.5	20525	V	20.66	5.46	-3.46	22.66	38.45
			H	17.87	5.46	-3.46	19.87	38.45
	844.0	20600	V	20.56	5.45	-3.08	22.93	38.45
			H	19.07	5.45	-3.08	21.44	38.45

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	22.03	10.40	-5.88	26.55	33.01
			H	18.68	10.40	-5.88	23.20	33.01
	2535.0	21100	V	22.27	10.46	-5.89	**26.84**	33.01
			H	17.99	10.46	-5.89	22.56	33.01
	2567.5	21425	V	22.19	10.52	-5.97	26.74	33.01
			H	15.86	10.52	-5.97	20.41	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	22.15	10.41	-5.89	26.67	33.01
			H	17.81	10.41	-5.89	22.33	33.01
	2535.0	21100	V	21.78	10.47	-5.90	26.35	33.01
			H	17.70	10.47	-5.90	22.27	33.01
	2567.5	21425	V	22.14	10.52	-5.98	**26.68**	33.01
			H	15.77	10.52	-5.98	20.31	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	22.01	10.40	-5.88	**26.53**	33.01
			H	17.81	10.40	-5.88	22.33	33.01
	2535.0	21100	V	21.95	10.46	-5.89	26.52	33.01
			H	17.80	10.46	-5.89	22.37	33.01
	2567.5	21425	V	21.80	10.52	-5.97	26.35	33.01
			H	15.53	10.52	-5.97	20.08	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	21.98	10.41	-5.89	26.50	33.01
			H	17.72	10.41	-5.89	22.24	33.01
	2535.0	21100	V	21.67	10.47	-5.90	26.24	33.01
			H	17.64	10.47	-5.90	22.21	33.01
	2567.5	21425	V	22.00	10.52	-5.98	**26.54**	33.01
			H	15.58	10.52	-5.98	20.12	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	21.61	10.40	-5.88	**26.13**	33.01
			H	18.05	10.40	-5.88	22.57	33.01
	2535.0	21100	V	21.46	10.45	-5.89	26.02	33.01
			H	18.34	10.45	-5.89	22.90	33.01
	2565.0	21400	V	20.91	10.51	-5.96	25.46	33.01
			H	16.29	10.51	-5.96	20.84	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	27.58	10.42	-5.89	**32.11**	33.01
			H	17.07	10.42	-5.89	21.60	33.01
	2535.0	21100	V	26.23	10.47	-5.90	30.80	33.01
			H	18.21	10.47	-5.90	22.78	33.01
	2565.0	21400	V	26.90	10.52	-5.98	31.44	33.01
			H	13.74	10.52	-5.98	18.28	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	21.76	10.40	-5.88	**26.28**	33.01
			H	17.00	10.40	-5.88	21.52	33.01
	2535.0	21100	V	21.28	10.45	-5.89	25.84	33.01
			H	16.55	10.45	-5.89	21.11	33.01
	2565.0	21400	V	21.13	10.51	-5.96	25.68	33.01
			H	14.51	10.51	-5.96	19.06	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	26.97	10.42	-5.89	**31.50**	33.01
			H	18.08	10.42	-5.89	22.61	33.01
	2535.0	21100	V	26.81	10.47	-5.90	31.38	33.01
			H	17.30	10.47	-5.90	21.87	33.01
	2565.0	21400	V	26.49	10.52	-5.98	31.03	33.01
			H	15.93	10.52	-5.98	20.47	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	21.77	10.40	-5.88	**26.29**	33.01
			H	18.09	10.40	-5.88	22.61	33.01
	2535.0	21100	V	20.55	10.45	-5.89	25.11	33.01
			H	16.89	10.45	-5.89	21.45	33.01
	2562.5	21375	V	20.75	10.50	-5.94	25.31	33.01
			H	16.01	10.50	-5.94	20.57	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	21.66	10.43	-5.84	26.25	33.01
			H	18.29	10.43	-5.84	22.88	33.01
	2535.0	21100	V	20.45	10.47	-5.91	25.01	33.01
			H	16.49	10.47	-5.91	21.05	33.01
	2562.5	21375	V	22.11	10.52	-5.98	**26.65**	33.01
			H	15.84	10.52	-5.98	20.38	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	21.79	10.40	-5.88	**26.31**	33.01
			H	18.05	10.40	-5.88	22.57	33.01
	2535.0	21100	V	20.64	10.45	-5.89	25.20	33.01
			H	16.92	10.45	-5.89	21.48	33.01
	2562.5	21375	V	20.32	10.50	-5.94	24.88	33.01
			H	16.14	10.50	-5.94	20.70	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	21.36	10.42	-5.89	25.89	33.01
			H	18.16	10.42	-5.89	22.69	33.01
	2535.0	21100	V	20.42	10.47	-5.91	24.98	33.01
			H	16.36	10.47	-5.91	20.92	33.01
	2562.5	21375	V	21.82	10.52	-5.98	**26.36**	33.01
			H	15.69	10.52	-5.98	20.23	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	21.80	10.40	-5.88	**26.32**	33.01
			H	18.53	10.40	-5.88	23.05	33.01
	2535.0	21100	V	21.27	10.45	-5.89	25.83	33.01
			H	17.22	10.45	-5.89	21.78	33.01
	2560.0	21350	V	21.08	10.49	-5.93	25.64	33.01
			H	16.54	10.49	-5.93	21.10	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	21.42	10.43	-5.89	25.96	33.01
			H	17.91	10.43	-5.89	22.45	33.01
	2535.0	21100	V	21.02	10.48	-5.91	25.59	33.01
			H	16.62	10.48	-5.91	21.19	33.01
	2560.0	21350	V	22.03	10.52	-5.97	**26.58**	33.01
			H	15.85	10.52	-5.97	20.40	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	22.04	10.40	-5.88	**26.56**	33.01
			H	18.27	10.40	-5.88	22.79	33.01
	2535.0	21100	V	21.01	10.45	-5.89	25.57	33.01
			H	17.05	10.45	-5.89	21.61	33.01
	2560.0	21350	V	20.99	10.49	-5.92	25.56	33.01
			H	16.54	10.49	-5.92	21.11	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	21.22	10.43	-5.89	25.76	33.01
			H	17.79	10.43	-5.89	22.33	33.01
	2535.0	21100	V	20.81	10.48	-5.91	25.38	33.01
			H	16.52	10.48	-5.91	21.09	33.01
	2560.0	21350	V	21.84	10.52	-5.98	**26.38**	33.01
			H	15.53	10.52	-5.98	20.07	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	23.60	5.44	-3.28	**25.76**	34.77
			H	12.89	5.44	-3.28	15.05	34.77
	707.5	23095	V	20.72	5.46	-3.23	22.95	34.77
			H	13.70	5.46	-3.23	15.93	34.77
	715.3	23173	V	20.15	5.46	-3.01	22.60	34.77
			H	11.62	5.46	-3.01	14.07	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	19.29	5.46	-3.00	**21.75**	34.77
			H	12.71	5.46	-3.00	15.17	34.77
	707.5	23095	V	18.37	5.46	-3.23	20.60	34.77
			H	13.59	5.46	-3.23	15.82	34.77
	715.3	23173	V	19.23	5.46	-3.11	21.58	34.77
			H	11.38	5.46	-3.11	13.73	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	19.24	5.45	-3.10	21.59	34.77
			H	12.39	5.45	-3.10	14.74	34.77
	707.5	23095	V	19.46	5.46	-3.22	21.70	34.77
			H	13.43	5.46	-3.22	15.67	34.77
	715.3	23173	V	19.68	5.46	-3.12	**22.02**	34.77
			H	11.81	5.46	-3.12	14.15	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	19.38	5.46	-3.04	**21.80**	34.77
			H	12.67	5.46	-3.04	15.09	34.77
	707.5	23095	V	18.62	5.46	-3.23	20.85	34.77
			H	13.70	5.46	-3.23	15.93	34.77
	715.3	23173	V	18.25	5.46	-3.21	20.50	34.77
			H	11.53	5.46	-3.21	13.78	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	18.94	5.45	-3.20	**21.19**	34.77
			H	11.95	5.45	-3.20	14.20	34.77
	707.5	23095	V	18.26	5.46	-3.16	20.56	34.77
			H	13.06	5.46	-3.16	15.36	34.77
	714.5	23165	V	15.98	5.46	-2.90	18.54	34.77
			H	11.41	5.46	-2.90	13.97	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	18.54	5.46	-3.01	**20.99**	34.77
			H	12.25	5.46	-3.01	14.70	34.77
	707.5	23095	V	17.72	5.46	-3.15	20.03	34.77
			H	12.68	5.46	-3.15	14.99	34.77
	714.5	23165	V	15.97	5.46	-3.06	18.37	34.77
			H	11.21	5.46	-3.06	13.61	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	18.99	5.46	-3.12	**21.33**	34.77
			H	11.90	5.46	-3.12	14.24	34.77
	707.5	23095	V	18.03	5.46	-3.08	20.41	34.77
			H	12.86	5.46	-3.08	15.24	34.77
	714.5	23165	V	15.90	5.46	-2.90	18.46	34.77
			H	11.21	5.46	-2.90	13.77	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	18.44	5.46	-3.03	**20.87**	34.77
			H	12.07	5.46	-3.03	14.50	34.77
	707.5	23095	V	17.69	5.46	-3.23	19.92	34.77
			H	12.94	5.46	-3.23	15.17	34.77
	714.5	23165	V	15.72	5.46	-3.08	18.10	34.77
			H	11.05	5.46	-3.08	13.43	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	18.79	5.46	-3.12	**21.13**	34.77
			H	11.87	5.46	-3.12	14.21	34.77
	707.5	23095	V	18.19	5.46	-3.02	20.63	34.77
			H	12.70	5.46	-3.02	15.14	34.77
	713.5	23155	V	16.51	5.46	-3.07	18.90	34.77
			H	11.96	5.46	-3.07	14.35	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	18.31	5.46	-3.03	20.74	34.77
			H	12.56	5.46	-3.03	14.99	34.77
	707.5	23095	V	17.03	5.46	-3.08	19.41	34.77
			H	12.22	5.46	-3.08	14.60	34.77
	713.5	23155	V	18.70	5.46	-3.00	**21.16**	34.77
			H	11.82	5.46	-3.00	14.28	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	18.10	5.46	-3.04	20.52	34.77
			H	12.70	5.46	-3.04	15.12	34.77
	707.5	23095	V	16.46	5.46	-3.07	18.85	34.77
			H	11.99	5.46	-3.07	14.38	34.77
	713.5	23155	V	18.33	5.46	-3.00	**20.79**	34.77
			H	12.46	5.46	-3.00	14.92	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	18.33	5.46	-3.01	20.78	34.77
			H	12.46	5.46	-3.01	14.91	34.77
	707.5	23095	V	17.12	5.46	3.10	**25.68**	34.77
			H	12.40	5.46	3.10	20.96	34.77
	713.5	23155	V	15.92	5.46	-3.17	18.21	34.77
			H	11.38	5.46	-3.17	13.67	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	18.91	5.46	-3.13	**21.24**	34.77
			H	12.03	5.46	-3.13	14.36	34.77
	707.5	23095	V	18.24	5.46	-3.03	20.67	34.77
			H	12.09	5.46	-3.03	14.52	34.77
	711.0	23130	V	18.31	5.46	-3.20	20.57	34.77
			H	13.07	5.46	-3.20	15.33	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	17.84	5.46	-3.23	**20.07**	34.77
			H	12.96	5.46	-3.23	15.19	34.77
	707.5	23095	V	16.39	5.46	-3.07	18.78	34.77
			H	11.64	5.46	-3.07	14.03	34.77
	711.0	23130	V	15.82	5.46	-2.95	18.33	34.77
			H	11.11	5.46	-2.95	13.62	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	18.90	5.45	-3.18	**21.17**	34.77
			H	11.79	5.45	-3.18	14.06	34.77
	707.5	23095	V	18.20	5.46	-3.03	20.63	34.77
			H	12.14	5.46	-3.03	14.57	34.77
	711.0	23130	V	18.11	5.46	-3.17	20.40	34.77
			H	12.66	5.46	-3.17	14.95	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	17.77	5.46	-3.20	**20.03**	34.77
			H	12.70	5.46	-3.20	14.96	34.77
	707.5	23095	V	16.30	5.46	-3.07	18.69	34.77
			H	11.53	5.46	-3.07	13.92	34.77
	711.0	23130	V	15.92	5.46	-3.04	18.34	34.77
			H	10.91	5.46	-3.04	13.33	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	19.04	5.49	-3.11	21.42	34.77
			H	12.66	5.49	-3.11	15.04	34.77
	782.0	23230	V	19.58	5.50	-3.26	**21.82**	34.77
			H	13.77	5.50	-3.26	16.01	34.77
	784.5	23255	V	19.11	5.50	-3.34	21.27	34.77
			H	13.65	5.50	-3.34	15.81	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	19.50	5.50	-3.37	21.63	34.77
			H	13.97	5.50	-3.37	16.10	34.77
	782.0	23230	V	19.40	5.50	-3.42	21.48	34.77
			H	13.97	5.50	-3.42	16.05	34.77
	784.5	23255	V	19.62	5.51	-3.06	**22.07**	34.77
			H	15.09	5.51	-3.06	17.54	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	19.03	5.49	-3.11	21.41	34.77
			H	12.54	5.49	-3.11	14.92	34.77
	782.0	23230	V	20.23	5.50	-3.41	22.32	34.77
			H	14.69	5.50	-3.41	16.78	34.77
	784.5	23255	V	21.67	5.50	-3.30	**23.87**	34.77
			H	15.70	5.50	-3.30	17.90	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	21.53	5.50	-3.45	**23.58**	34.77
			H	15.44	5.50	-3.45	17.49	34.77
	782.0	23230	V	20.60	5.50	-3.18	22.92	34.77
			H	15.10	5.50	-3.18	17.42	34.77
	784.5	23255	V	20.54	5.50	-3.08	22.96	34.77
			H	15.50	5.50	-3.08	17.92	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	22.13	5.49	-3.11	**24.51**	34.77
			H	21.00	5.49	-3.11	23.38	34.77
BAND 13 BW: 10M QPSK RB: 1,99	782.0	23230	V	19.88	5.50	-3.06	**22.32**	34.77
			H	15.07	5.50	-3.06	17.51	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	19.50	5.49	-3.11	**21.88**	34.77
			H	13.17	5.49	-3.11	15.55	34.77
BAND 13 BW: 10M 16QAM RB: 1,99	782.0	23230	V	20.46	5.50	-3.06	**22.90**	34.77
			H	15.84	5.50	-3.06	18.28	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	18.15	9.59	-5.04	22.70	33.01
			H	15.98	9.59	-5.04	20.53	33.01
	1882.5	26365	V	21.65	9.70	-5.17	26.18	33.01
			H	16.82	9.70	-5.17	21.35	33.01
	1914.3	26683	V	22.70	9.81	-5.14	**27.37**	33.01
			H	17.59	9.81	-5.14	22.26	33.01
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	22.23	9.59	-5.05	26.77	33.01
			H	17.43	9.59	-5.05	21.97	33.01
	1882.5	26365	V	21.59	9.70	-5.18	26.11	33.01
			H	16.79	9.70	-5.18	21.31	33.01
	1914.3	26683	V	22.31	9.81	-5.14	**26.98**	33.01
			H	17.32	9.81	-5.14	21.99	33.01
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	20.81	9.59	-5.05	25.35	33.01
			H	15.61	9.59	-5.05	20.15	33.01
	1882.5	26365	V	20.01	9.70	-5.17	24.54	33.01
			H	16.79	9.70	-5.17	21.32	33.01
	1914.3	26683	V	22.76	9.81	-5.14	**27.43**	33.01
			H	17.81	9.81	-5.14	22.48	33.01
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	22.34	9.59	-5.04	26.89	33.01
			H	14.65	9.59	-5.04	19.20	33.01
	1882.5	26365	V	21.51	9.70	-5.17	26.04	33.01
			H	16.79	9.70	-5.17	21.32	33.01
	1914.3	26683	V	16.92	9.81	-5.14	21.59	33.01
			H	22.48	9.81	-5.14	**27.15**	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	22.37	9.59	-5.05	26.91	33.01
			H	15.21	9.59	-5.05	19.75	33.01
	1882.5	26365	V	23.28	9.70	-5.16	27.82	33.01
			H	16.93	9.70	-5.16	21.47	33.01
	1913.5	26675	V	26.70	9.80	-5.14	**31.36**	33.01
			H	18.61	9.80	-5.14	23.27	33.01
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	21.56	9.60	-5.05	26.11	33.01
			H	13.96	9.60	-5.05	18.51	33.01
	1882.5	26365	V	22.73	9.70	-5.17	**27.26**	33.01
			H	15.92	9.70	-5.17	20.45	33.01
	1913.5	26675	V	20.54	9.81	-5.14	25.21	33.01
			H	16.09	9.81	-5.14	20.76	33.01
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	22.16	9.59	-5.05	26.70	33.01
			H	15.64	9.59	-5.05	20.18	33.01
	1882.5	26365	V	21.72	9.70	-5.17	26.25	33.01
			H	17.09	9.70	-5.17	21.62	33.01
	1913.5	26675	V	22.20	9.80	-5.14	**26.86**	33.01
			H	18.40	9.80	-5.14	23.06	33.01
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	18.44	9.60	-5.05	22.99	33.01
			H	16.15	9.60	-5.05	20.70	33.01
	1882.5	26365	V	21.66	9.70	-5.17	26.19	33.01
			H	16.87	9.70	-5.17	21.40	33.01
	1913.5	26675	V	22.52	9.81	-5.14	**27.19**	33.01
			H	17.72	9.81	-5.14	22.39	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	21.64	9.60	-5.05	26.19	33.01
			H	17.05	9.60	-5.05	21.60	33.01
	1882.5	26365	V	22.02	9.69	-5.16	26.55	33.01
			H	16.61	9.69	-5.16	21.14	33.01
	1912.5	26665	V	22.89	9.80	-5.13	**27.56**	33.01
			H	17.59	9.80	-5.13	22.26	33.01
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	21.90	9.60	-5.05	26.45	33.01
			H	16.93	9.60	-5.05	21.48	33.01
	1882.5	26365	V	21.79	9.71	-5.17	26.33	33.01
			H	16.68	9.71	-5.17	21.22	33.01
	1912.5	26665	V	23.80	9.81	-5.14	**28.47**	33.01
			H	17.34	9.81	-5.14	22.01	33.01
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	21.94	9.59	-5.05	26.48	33.01
			H	15.77	9.59	-5.05	20.31	33.01
	1882.5	26365	V	22.17	9.69	-5.16	26.70	33.01
			H	16.76	9.69	-5.16	21.29	33.01
	1912.5	26665	V	22.82	9.80	-5.13	**27.49**	33.01
			H	17.63	9.80	-5.13	22.30	33.01
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	19.84	9.61	-5.05	24.40	33.01
			H	16.77	9.61	-5.05	21.33	33.01
	1882.5	26365	V	21.75	9.71	-5.17	26.29	33.01
			H	16.65	9.71	-5.17	21.19	33.01
	1912.5	26665	V	23.08	9.81	-5.14	**27.75**	33.01
			H	17.15	9.81	-5.14	21.82	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	22.42	9.59	-5.05	26.96	33.01
			H	9.72	9.59	-5.05	14.26	33.01
	1882.5	26365	V	23.83	9.69	-5.15	28.37	33.01
			H	8.75	9.69	-5.15	13.29	33.01
	1910.0	26640	V	24.93	9.78	-5.12	**29.59**	33.01
			H	11.82	9.78	-5.12	16.48	33.01
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	24.50	9.81	-5.14	29.17	33.01
			H	12.04	9.81	-5.14	16.71	33.01
	1882.5	26365	V	23.44	9.71	-5.17	27.98	33.01
			H	7.87	9.71	-5.17	12.41	33.01
	1910.0	26640	V	24.55	9.81	-5.14	**29.22**	33.01
			H	12.10	9.81	-5.14	16.77	33.01
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	22.40	9.59	-5.05	26.94	33.01
			H	9.72	9.59	-5.05	14.26	33.01
	1882.5	26365	V	23.79	9.68	-5.14	28.33	33.01
			H	8.85	9.68	-5.14	13.39	33.01
	1910.0	26640	V	24.88	9.78	-5.12	**29.54**	33.01
			H	11.93	9.78	-5.12	16.59	33.01
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	24.70	9.81	-5.14	**29.37**	33.01
			H	12.20	9.81	-5.14	16.87	33.01
	1882.5	26365	V	23.50	9.71	-5.16	28.05	33.01
			H	7.76	9.71	-5.16	12.31	33.01
	1910.0	26640	V	24.65	9.81	-5.14	29.32	33.01
			H	12.14	9.81	-5.14	16.81	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	23.78	9.59	-5.04	28.33	33.01
			H	10.99	9.59	-5.04	15.54	33.01
	1882.5	26365	V	24.20	9.68	-5.13	28.75	33.01
			H	9.30	9.68	-5.13	13.85	33.01
	1907.5	26615	V	24.66	9.76	-5.11	**29.31**	33.01
			H	10.78	9.76	-5.11	15.43	33.01
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	23.89	9.64	-5.07	28.46	33.01
			H	10.22	9.64	-5.07	14.79	33.01
	1882.5	26365	V	23.79	9.72	-5.16	28.35	33.01
			H	8.24	9.72	-5.16	12.80	33.01
	1907.5	26615	V	24.83	9.81	-5.14	**29.50**	33.01
			H	12.15	9.81	-5.14	16.82	33.01
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	22.43	9.59	-5.05	26.97	33.01
			H	9.61	9.59	-5.05	14.15	33.01
	1882.5	26365	V	24.38	9.68	-5.13	28.93	33.01
			H	9.21	9.68	-5.13	13.76	33.01
	1907.5	26615	V	24.75	9.76	-5.11	**29.40**	33.01
			H	10.78	9.76	-5.11	15.43	33.01
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	24.15	9.64	-5.07	**28.72**	33.01
			H	10.02	9.64	-5.07	14.59	33.01
	1882.5	26365	V	23.75	9.72	-5.16	28.31	33.01
			H	8.01	9.72	-5.16	12.57	33.01
	1907.5	26615	V	23.08	9.81	-5.14	27.75	33.01
			H	12.07	9.81	-5.14	16.74	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	23.71	9.59	-5.05	28.25	33.01
			H	15.05	9.59	-5.05	19.59	33.01
	1882.5	26365	V	25.93	9.67	-5.12	**30.48**	33.01
			H	9.75	9.67	-5.12	14.30	33.01
	1905.0	26590	V	25.44	9.75	-5.13	30.06	33.01
			H	14.34	9.75	-5.13	18.96	33.01
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	24.72	9.65	-5.09	29.28	33.01
			H	5.05	9.65	-5.09	9.61	33.01
	1882.5	26365	V	25.21	9.73	-5.15	29.79	33.01
			H	13.61	9.73	-5.15	18.19	33.01
	1905.0	26590	V	26.38	9.81	-5.14	**31.05**	33.01
			H	9.86	9.81	-5.14	14.53	33.01
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	24.55	9.59	-5.05	29.09	33.01
			H	10.32	9.59	-5.05	14.86	33.01
	1882.5	26365	V	25.95	9.68	-5.12	**30.51**	33.01
			H	9.61	9.68	-5.12	14.17	33.01
	1905.0	26590	V	24.75	9.75	-5.13	29.37	33.01
			H	9.71	9.75	-5.13	14.33	33.01
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	24.27	9.65	-5.08	**28.84**	33.01
			H	9.77	9.65	-5.08	14.34	33.01
	1882.5	26365	V	23.07	9.73	-5.14	27.66	33.01
			H	7.75	9.73	-5.14	12.34	33.01
	1905.0	26590	V	23.38	9.80	-5.14	28.04	33.01
			H	10.93	9.80	-5.14	15.59	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 1.4M QPSK RB: 1,0	824.7	26797	V	23.85	5.49	-3.29	**26.05**	38.50
			H	16.47	5.49	-3.29	18.67	38.50
	836.5	26915	V	22.57	5.47	-3.32	24.72	38.50
			H	17.02	5.47	-3.32	19.17	38.50
	848.3	27033	V	19.68	5.45	-3.08	22.05	38.50
			H	18.57	5.45	-3.08	20.94	38.50
BAND 26 BW: 1.4M QPSK RB: 1,5	824.7	26797	V	23.51	5.48	-3.23	**25.76**	38.50
			H	16.18	5.48	-3.23	18.43	38.50
	836.5	26915	V	22.18	5.47	-3.35	24.30	38.50
			H	17.04	5.47	-3.35	19.16	38.50
	848.3	27033	V	19.68	5.45	-3.07	22.06	38.50
			H	18.57	5.45	-3.07	20.95	38.50
BAND 26 BW: 1.4M 16QAM RB: 1,0	824.7	26797	V	23.48	5.49	-3.33	**25.64**	38.50
			H	16.54	5.49	-3.33	18.70	38.50
	836.5	26915	V	22.13	5.47	-3.31	24.29	38.50
			H	16.97	5.47	-3.31	19.13	38.50
	848.3	27033	V	19.81	5.45	-3.08	22.18	38.50
			H	18.70	5.45	-3.08	21.07	38.50
BAND 26 BW: 1.4M 16QAM RB: 1,5	824.7	26797	V	23.19	5.48	-3.25	**25.42**	38.50
			H	16.25	5.48	-3.25	18.48	38.50
	836.5	26915	V	21.77	5.47	-3.32	23.92	38.50
			H	17.21	5.47	-3.32	19.36	38.50
	848.3	27033	V	19.02	5.45	-3.09	21.38	38.50
			H	17.82	5.45	-3.09	20.18	38.50

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 3M QPSK RB: 1,0	825.5	26805	V	21.88	5.49	-3.35	**24.02**	38.50
			H	14.69	5.49	-3.35	16.83	38.50
	836.5	26915	V	19.20	5.47	-3.36	21.31	38.50
			H	13.72	5.47	-3.36	15.83	38.50
	847.5	27025	V	19.36	5.45	-3.32	21.49	38.50
			H	18.22	5.45	-3.32	20.35	38.50
BAND 26 BW: 3M QPSK RB: 1,14	825.5	26805	V	22.62	5.48	-3.21	**24.89**	38.50
			H	15.68	5.48	-3.21	17.95	38.50
	836.5	26915	V	20.91	5.47	-3.19	23.19	38.50
			H	16.67	5.47	-3.19	18.95	38.50
	847.5	27025	V	18.80	5.45	-3.09	21.16	38.50
			H	17.59	5.45	-3.09	19.95	38.50
BAND 26 BW: 3M 16QAM RB: 1,0	825.5	26805	V	23.50	5.49	-3.33	**25.66**	38.50
			H	16.55	5.49	-3.33	18.71	38.50
	836.5	26915	V	21.74	5.47	-3.36	23.85	38.50
			H	16.28	5.47	-3.36	18.39	38.50
	847.5	27025	V	19.19	5.45	-3.25	21.39	38.50
			H	18.14	5.45	-3.25	20.34	38.50
BAND 26 BW: 3M 16QAM RB: 1,14	825.5	26805	V	22.66	5.48	-3.21	**24.93**	38.50
			H	15.67	5.48	-3.21	17.94	38.50
	836.5	26915	V	20.90	5.47	-3.14	23.23	38.50
			H	16.56	5.47	-3.14	18.89	38.50
	847.5	27025	V	19.10	5.45	-3.12	21.43	38.50
			H	17.93	5.45	-3.12	20.26	38.50

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 5M QPSK RB: 1,0	826.5	26815	V	23.45	5.49	-3.35	**25.59**	38.50
			H	16.51	5.49	-3.35	18.65	38.50
	836.5	26915	V	22.14	5.47	-3.36	24.25	38.50
			H	16.29	5.47	-3.36	18.40	38.50
	846.5	27015	V	18.23	5.46	-3.46	20.23	38.50
			H	17.04	5.46	-3.46	19.04	38.50
BAND 26 BW: 5M QPSK RB: 1,24	826.5	26815	V	22.23	5.48	-3.17	**24.54**	38.50
			H	15.30	5.48	-3.17	17.61	38.50
	836.5	26915	V	20.28	5.47	-3.19	22.56	38.50
			H	16.57	5.47	-3.19	18.85	38.50
	846.5	27015	V	19.01	5.45	-3.08	21.38	38.50
			H	17.79	5.45	-3.08	20.16	38.50
BAND 26 BW: 5M 16QAM RB: 1,0	826.5	26815	V	23.56	5.49	-3.31	**25.74**	38.50
			H	16.52	5.49	-3.31	18.70	38.50
	836.5	26915	V	22.21	5.47	-3.39	24.29	38.50
			H	16.33	5.47	-3.39	18.41	38.50
	846.5	27015	V	18.26	5.46	-3.45	20.27	38.50
			H	16.95	5.46	-3.45	18.96	38.50
BAND 26 BW: 5M 16QAM RB: 1,24	826.5	26815	V	22.32	5.48	-3.16	**24.64**	38.50
			H	15.36	5.48	-3.16	17.68	38.50
	836.5	26915	V	20.54	5.47	-3.13	22.88	38.50
			H	16.70	5.47	-3.13	19.04	38.50
	846.5	27015	V	19.33	5.45	-3.13	21.65	38.50
			H	18.16	5.45	-3.13	20.48	38.50

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 10M QPSK RB: 1,0	829.0	26840	V	23.29	5.48	-3.26	**25.51**	38.50
			H	16.20	5.48	-3.26	18.42	38.50
	836.5	26915	V	22.25	5.48	-3.47	24.26	38.50
			H	15.72	5.48	-3.47	17.73	38.50
	844.0	26990	V	19.60	5.46	-3.18	21.88	38.50
			H	16.41	5.46	-3.18	18.69	38.50
BAND 26 BW: 10M QPSK RB: 1,49	829.0	26840	V	22.21	5.47	-3.44	**24.24**	38.50
			H	16.02	5.47	-3.44	18.05	38.50
	836.5	26915	V	19.53	5.46	-3.46	21.53	38.50
			H	16.78	5.46	-3.46	18.78	38.50
	844.0	26990	V	19.23	5.45	-3.08	21.60	38.50
			H	18.06	5.45	-3.08	20.43	38.50
BAND 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	23.38	5.48	-3.28	**25.58**	38.50
			H	16.34	5.48	-3.28	18.54	38.50
	836.5	26915	V	22.23	5.48	-3.49	24.22	38.50
			H	15.63	5.48	-3.49	17.62	38.50
	844.0	26990	V	19.62	5.46	-3.39	21.69	38.50
			H	16.65	5.46	-3.39	18.72	38.50
BAND 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	22.14	5.47	-3.44	**24.17**	38.50
			H	15.94	5.47	-3.44	17.97	38.50
	836.5	26915	V	19.50	5.46	-3.47	21.49	38.50
			H	17.14	5.46	-3.47	19.13	38.50
	844.0	26990	V	19.45	5.45	-3.09	21.81	38.50
			H	18.29	5.45	-3.09	20.65	38.50

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	23.30	5.48	-3.26	**25.52**	38.50
			H	16.23	5.48	-3.26	18.45	38.50
	836.5	26915	V	22.40	5.48	-3.25	24.63	38.50
			H	15.30	5.48	-3.25	17.53	38.50
	841.5	26965	V	21.75	5.48	-3.36	23.87	38.50
			H	16.30	5.48	-3.36	18.42	38.50
BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	20.35	5.47	-3.12	**22.70**	38.50
			H	16.41	5.47	-3.12	18.76	38.50
	836.5	26915	V	18.25	5.46	-3.44	20.27	38.50
			H	16.91	5.46	-3.44	18.93	38.50
	841.5	26965	V	19.18	5.45	-3.08	21.55	38.50
			H	17.90	5.45	-3.08	20.27	38.50
BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	23.26	5.49	-3.30	**25.45**	38.50
			H	16.27	5.49	-3.30	18.46	38.50
	836.5	26915	V	22.17	5.48	-3.24	24.41	38.50
			H	15.32	5.48	-3.24	17.56	38.50
	841.5	26965	V	21.59	5.47	-3.37	23.69	38.50
			H	16.21	5.47	-3.37	18.31	38.50
BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	18.92	5.47	-3.14	21.25	38.50
			H	15.08	5.47	-3.14	17.41	38.50
	836.5	26915	V	18.36	5.46	-3.44	20.38	38.50
			H	16.43	5.46	-3.44	18.45	38.50
	841.5	26965	V	19.12	5.45	-3.11	**21.46**	38.50
			H	17.96	5.45	-3.11	20.30	38.50

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 1.4M QPSK RB: 1,0 (Part 90S)	814.7	26697	V	22.27	5.50	-3.50	24.27	50.00
			H	15.12	5.50	-3.50	17.12	50.00
	819.0	26740	V	23.75	5.50	-3.24	26.01	50.00
			H	16.43	5.50	-3.24	18.69	50.00
	823.3	26783	V	24.52	5.49	-3.51	**26.50**	50.00
			H	17.14	5.49	-3.51	19.12	50.00
BAND 26 BW: 1.4M QPSK RB: 1,5 (Part 90S)	814.7	26697	V	21.81	5.50	-3.51	23.80	50.00
			H	15.21	5.50	-3.51	17.20	50.00
	819.0	26740	V	23.77	5.49	-3.25	**26.01**	50.00
			H	16.93	5.49	-3.25	19.17	50.00
	823.3	26783	V	23.53	5.48	-3.44	25.57	50.00
			H	16.72	5.48	-3.44	18.76	50.00
BAND 26 BW: 1.4M 16QAM RB: 1,0 (Part 90S)	814.7	26697	V	21.88	5.50	-3.40	23.98	50.00
			H	15.07	5.50	-3.40	17.17	50.00
	819.0	26740	V	23.36	5.50	-3.24	25.62	50.00
			H	16.44	5.50	-3.24	18.70	50.00
	823.3	26783	V	24.14	5.49	-3.53	**26.10**	50.00
			H	17.36	5.49	-3.53	19.32	50.00
BAND 26 BW: 1.4M 16QAM RB: 1,5 (Part 90S)	814.7	26697	V	21.80	5.50	-3.34	23.96	50.00
			H	15.02	5.50	-3.34	17.18	50.00
	819.0	26740	V	23.71	5.50	-3.25	**25.96**	50.00
			H	16.80	5.50	-3.25	19.05	50.00
	823.3	26783	V	23.60	5.49	-3.49	25.60	50.00
			H	16.90	5.49	-3.49	18.90	50.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 3M QPSK RB: 1,0 (Part 90S)	815.5	26705	V	21.88	5.50	-3.40	23.98	50.00
			H	15.15	5.50	-3.40	17.25	50.00
	819.0	26740	V	22.96	5.49	-3.24	25.21	50.00
			H	16.06	5.49	-3.24	18.31	50.00
	822.5	26775	V	24.35	5.49	-3.39	**26.45**	50.00
			H	17.51	5.49	-3.39	19.61	50.00
BAND 26 BW: 3M QPSK RB: 1,14 (Part 90S)	815.5	26705	V	22.40	5.50	-3.20	24.70	50.00
			H	15.51	5.50	-3.20	17.81	50.00
	819.0	26740	V	24.13	5.49	-3.30	**26.32**	50.00
			H	17.30	5.49	-3.30	19.49	50.00
	822.5	26775	V	23.50	5.49	-3.42	25.57	50.00
			H	16.73	5.49	-3.42	18.80	50.00
BAND 26 BW: 3M 16QAM RB: 1,0 (Part 90S)	815.5	26705	V	21.94	5.50	-3.46	23.98	50.00
			H	15.22	5.50	-3.46	17.26	50.00
	819.0	26740	V	22.86	5.50	-3.24	25.12	50.00
			H	16.00	5.50	-3.24	18.26	50.00
	822.5	26775	V	24.21	5.49	-3.50	**26.20**	50.00
			H	17.37	5.49	-3.50	19.36	50.00
BAND 26 BW: 3M 16QAM RB: 1,14 (Part 90S)	815.5	26705	V	22.29	5.49	-3.20	24.58	50.00
			H	15.44	5.49	-3.20	17.73	50.00
	819.0	26740	V	23.98	5.49	-3.25	**26.22**	50.00
			H	17.23	5.49	-3.25	19.47	50.00
	822.5	26775	V	23.51	5.49	-3.41	25.59	50.00
			H	16.82	5.49	-3.41	18.90	50.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 5M QPSK RB: 1,0 (Part 90S)	816.5	26715	V	21.84	5.50	-3.43	23.91	50.00
			H	15.15	5.50	-3.43	17.22	50.00
	819.0	26740	V	22.46	5.50	-3.19	24.77	50.00
			H	15.53	5.50	-3.19	17.84	50.00
	821.5	26765	V	23.77	5.49	-3.27	**25.99**	50.00
			H	16.87	5.49	-3.27	19.09	50.00
BAND 26 BW: 5M QPSK RB: 1,24 (Part 90S)	816.5	26715	V	23.44	5.49	-3.25	25.68	50.00
			H	16.55	5.49	-3.25	18.79	50.00
	819.0	26740	V	24.30	5.49	-3.44	**26.35**	50.00
			H	17.50	5.49	-3.44	19.55	50.00
	821.5	26765	V	23.56	5.49	-3.44	25.61	50.00
			H	16.80	5.49	-3.44	18.85	50.00
BAND 26 BW: 5M 16QAM RB: 1,0 (Part 90S)	816.5	26715	V	21.87	5.50	-3.41	23.96	50.00
			H	15.16	5.50	-3.41	17.25	50.00
	819.0	26740	V	22.35	5.50	-3.20	24.65	50.00
			H	15.46	5.50	-3.20	17.76	50.00
	821.5	26765	V	23.55	5.49	-3.25	**25.79**	50.00
			H	16.70	5.49	-3.25	18.94	50.00
BAND 26 BW: 5M 16QAM RB: 1,24 (Part 90S)	816.5	26715	V	23.29	5.50	-3.25	25.54	50.00
			H	16.45	5.50	-3.25	18.70	50.00
	819.0	26740	V	24.12	5.49	-3.42	**26.19**	50.00
			H	17.41	5.49	-3.42	19.48	50.00
	821.5	26765	V	23.45	5.49	-3.42	25.52	50.00
			H	16.80	5.49	-3.42	18.87	50.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 26 BW: 10M QPSK RB: 1,0 (Part 90S)	819.0	26740	V	21.68	5.50	-3.41	**23.77**	50.00
			H	15.06	5.50	-3.41	17.15	50.00
BAND 26 BW: 10M QPSK RB: 1,49 (Part 90S)	819.0	26740	V	23.42	5.49	-3.49	**25.42**	50.00
			H	16.71	5.49	-3.49	18.71	50.00
BAND 26 BW: 10M 16QAM RB: 1,0 (Part 90S)	819.0	26740	V	21.71	5.50	-3.34	**23.87**	50.00
			H	14.99	5.50	-3.34	17.15	50.00
BAND 26 BW: 10M 16QAM RB: 1,99 (Part 90S)	819.0	26740	V	23.41	5.49	-3.52	**25.38**	50.00
			H	16.83	5.49	-3.52	18.80	50.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	26.00	10.28	-5.65	**30.63**	34.77
			H	19.15	10.28	-5.65	23.78	34.77
	2310.0	27710	V	24.58	10.28	-5.65	29.21	34.77
			H	18.95	10.28	-5.65	23.58	34.77
	2312.5	27735	V	24.61	10.29	-5.65	29.25	34.77
			H	19.06	10.29	-5.65	23.70	34.77
BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	24.82	10.29	-5.65	**29.46**	34.77
			H	19.26	10.29	-5.65	23.90	34.77
	2310.0	27710	V	24.12	10.29	-5.65	28.76	34.77
			H	19.05	10.29	-5.65	23.69	34.77
	2312.5	27735	V	24.68	10.29	-5.65	29.32	34.77
			H	19.08	10.29	-5.65	23.72	34.77
BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	25.33	10.28	-5.65	**29.96**	34.77
			H	19.34	10.28	-5.65	23.97	34.77
	2310.0	27710	V	20.69	10.28	-5.65	25.32	34.77
			H	19.27	10.28	-5.65	23.90	34.77
	2312.5	27735	V	24.58	10.29	-5.65	29.22	34.77
			H	19.79	10.29	-5.65	24.43	34.77
BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	25.54	10.28	-5.65	**30.17**	34.77
			H	19.36	10.28	-5.65	23.99	34.77
	2310.0	27710	V	24.80	10.29	-5.65	29.44	34.77
			H	19.81	10.29	-5.65	24.45	34.77
	2312.5	27735	V	25.17	10.29	-5.65	29.81	34.77
			H	20.14	10.29	-5.65	24.78	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 30 BW: 10M QPSK RB: 1,0	2310.0	27710	V	25.86	10.28	-5.65	**30.49**	34.77
			H	19.91	10.28	-5.65	24.54	34.77
BAND 30 BW: 10M QPSK RB: 1,99	2310.0	27710	V	25.19	10.29	-5.65	**29.83**	34.77
			H	19.79	10.29	-5.65	24.43	34.77
BAND 30 BW: 10M 16QAM RB: 1,0	2310.0	27710	V	26.17	10.28	-5.65	**30.80**	34.77
			H	19.67	10.28	-5.65	24.30	34.77
BAND 30 BW: 10M 16QAM RB: 1,99	2310.0	27710	V	25.87	10.29	-5.65	**30.51**	34.77
			H	20.07	10.29	-5.65	24.71	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 5M QPSK RB: 1,0	2547.5	40165	V	26.06	10.39	-5.88	**30.57**	33.01
			H	16.15	10.39	-5.88	20.66	33.01
	2600.0	40690	V	24.58	10.57	-6.00	29.15	33.01
			H	12.67	10.57	-6.00	17.24	33.01
	2652.5	41215	V	20.94	10.73	-6.16	25.51	33.01
			H	11.33	10.73	-6.16	15.90	33.01
BAND 41 BW: 5M QPSK RB: 1,24	2547.5	40165	V	22.84	10.40	-5.88	27.36	33.01
			H	15.98	10.40	-5.88	20.50	33.01
	2600.0	40690	V	23.28	10.57	-6.01	**27.84**	33.01
			H	16.86	10.57	-6.01	21.42	33.01
	2652.5	41215	V	22.89	10.68	-6.09	27.48	33.01
			H	21.63	10.68	-6.09	26.22	33.01
BAND 41 BW: 5M 16QAM RB: 1,0	2547.5	40165	V	22.04	10.40	-5.88	26.56	33.01
			H	14.67	10.40	-5.88	19.19	33.01
	2600.0	40690	V	22.31	10.56	-6.00	**26.87**	33.01
			H	16.62	10.56	-6.00	21.18	33.01
	2652.5	41215	V	19.72	10.74	-6.15	24.31	33.01
			H	19.65	10.74	-6.15	24.24	33.01
BAND 41 BW: 5M 16QAM RB: 1,24	2547.5	40165	V	22.20	10.40	-5.88	26.72	33.01
			H	13.87	10.40	-5.88	18.39	33.01
	2600.0	40690	V	23.74	10.57	-6.01	28.30	33.01
			H	14.71	10.57	-6.01	19.27	33.01
	2652.5	41215	V	23.88	10.68	-6.09	**28.47**	33.01
			H	20.79	10.68	-6.09	25.38	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 10M QPSK RB: 1,0	2550.0	40190	V	24.46	10.40	-5.88	**28.98**	33.01
			H	15.60	10.40	-5.88	20.12	33.01
	2600.0	40690	V	24.01	10.56	-6.00	28.57	33.01
			H	14.48	10.56	-6.00	19.04	33.01
	2650.0	41190	V	23.46	10.73	-6.15	28.04	33.01
			H	19.67	10.73	-6.15	24.25	33.01
BAND 41 BW: 10M QPSK RB: 1,49	2550.0	40190	V	23.12	10.41	-5.89	27.64	33.01
			H	12.27	10.41	-5.89	16.79	33.01
	2600.0	40690	V	23.51	10.58	-6.02	**28.07**	33.01
			H	14.18	10.58	-6.02	18.74	33.01
	2650.0	41190	V	21.42	10.74	-6.15	26.01	33.01
			H	18.63	10.74	-6.15	23.22	33.01
BAND 41 BW: 10M 16QAM RB: 1,0	2550.0	40190	V	22.12	10.40	-5.88	26.64	33.01
			H	12.31	10.40	-5.88	16.83	33.01
	2600.0	40690	V	23.35	10.56	-6.00	**27.91**	33.01
			H	14.09	10.56	-6.00	18.65	33.01
	2650.0	41190	V	23.09	10.72	-6.15	27.66	33.01
			H	18.88	10.72	-6.15	23.45	33.01
BAND 41 BW: 10M 16QAM RB: 1,49	2550.0	40190	V	22.51	10.41	-5.89	27.03	33.01
			H	11.92	10.41	-5.89	16.44	33.01
	2600.0	40690	V	22.86	10.58	-6.02	27.42	33.01
			H	16.42	10.58	-6.02	20.98	33.01
	2650.0	41190	V	23.10	10.74	-6.15	**27.69**	33.01
			H	20.29	10.74	-6.15	24.88	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 15M QPSK RB: 1,0	2552.5	40215	V	24.77	10.40	-5.88	29.29	33.01
			H	14.54	10.40	-5.88	19.06	33.01
	2600.0	40690	V	24.90	10.55	-5.99	**29.46**	33.01
			H	16.08	10.55	-5.99	20.64	33.01
	2647.5	41165	V	24.80	10.72	-6.13	29.39	33.01
			H	20.69	10.72	-6.13	25.28	33.01
BAND 41 BW: 15M QPSK RB: 1,74	2552.5	40215	V	24.91	10.42	-5.89	**29.44**	33.01
			H	14.48	10.42	-5.89	19.01	33.01
	2600.0	40690	V	24.86	10.58	-6.02	29.42	33.01
			H	16.35	10.58	-6.02	20.91	33.01
	2647.5	41165	V	24.04	10.74	-6.15	28.63	33.01
			H	21.34	10.74	-6.15	25.93	33.01
BAND 41 BW: 15M 16QAM RB: 1,0	2552.5	40215	V	24.62	10.40	-5.88	29.14	33.01
			H	14.27	10.40	-5.88	18.79	33.01
	2600.0	40690	V	24.99	10.56	-5.99	**29.56**	33.01
			H	16.21	10.56	-5.99	20.78	33.01
	2647.5	41165	V	24.68	10.72	-6.13	29.27	33.01
			H	20.69	10.72	-6.13	25.28	33.01
BAND 41 BW: 15M 16QAM RB: 1,74	2552.5	40215	V	24.84	10.42	-5.89	29.37	33.01
			H	14.11	10.42	-5.89	18.64	33.01
	2600.0	40690	V	24.86	10.58	-6.01	**29.43**	33.01
			H	16.15	10.58	-6.01	20.72	33.01
	2647.5	41165	V	23.89	10.74	-6.15	28.48	33.01
			H	21.09	10.74	-6.15	25.68	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 41 BW: 20M QPSK RB: 1,0	2555.0	40240	V	24.24	10.39	-5.88	28.75	33.01
			H	14.63	10.39	-5.88	19.14	33.01
	2600.0	40690	V	24.98	10.55	-5.99	**29.54**	33.01
			H	15.82	10.55	-5.99	20.38	33.01
	2645.0	41140	V	24.76	10.71	-6.11	29.36	33.01
			H	20.91	10.71	-6.11	25.51	33.01
BAND 41 BW: 20M QPSK RB: 1,99	2555.0	40240	V	24.62	10.43	-5.89	**29.16**	33.01
			H	13.87	10.43	-5.89	18.41	33.01
	2600.0	40690	V	23.98	10.58	-6.02	28.54	33.01
			H	17.40	10.58	-6.02	21.96	33.01
	2645.0	41140	V	23.51	10.74	-6.15	28.10	33.01
			H	21.26	10.74	-6.15	25.85	33.01
BAND 41 BW: 20M 16QAM RB: 1,0	2555.0	40240	V	24.83	10.40	-5.88	29.35	33.01
			H	14.22	10.40	-5.88	18.74	33.01
	2600.0	40690	V	25.14	10.55	-5.99	**29.70**	33.01
			H	15.93	10.55	-5.99	20.49	33.01
	2645.0	41140	V	24.75	10.71	-6.12	29.34	33.01
			H	21.03	10.71	-6.12	25.62	33.01
BAND 41 BW: 20M 16QAM RB: 1,99	2555.0	40240	V	25.48	10.42	-5.89	**30.01**	33.01
			H	13.60	10.42	-5.89	18.13	33.01
	2600.0	40690	V	25.15	10.58	-6.02	29.71	33.01
			H	17.33	10.58	-6.02	21.89	33.01
	2645.0	41140	V	23.22	10.74	-6.15	27.81	33.01
			H	20.82	10.74	-6.15	25.41	33.01

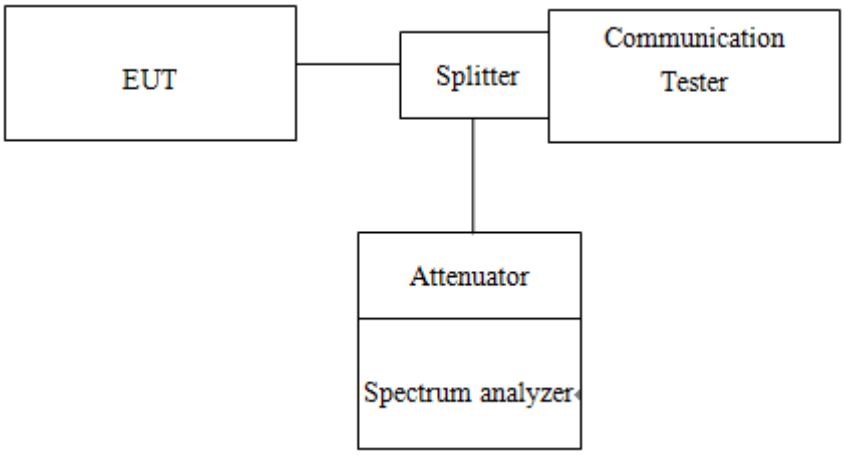
The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1535	4.1416	4.1374	4.697	4.684	4.681
1880.00	9400	4.1367	4.1436	4.1378	4.681	4.679	4.688
1909.80	9538	**4.1566**	**4.1587**	**4.1417**	4.684	4.714	4.684

Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	**4.1466**	**4.1356**	4.1248	4.683	4.689	4.682
836.60	4183	4.1395	4.1260	**4.1364**	4.671	4.682	4.682
846.60	4233	4.1263	4.1321	4.1331	4.669	4.689	4.682

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0929	1.0950	1.245	1.239
1880.0	18900	1.0925	1.0925	1.243	1.241
1909.3	19193	1.0949	1.0949	1.253	1.239

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6935	2.6978	2.991	3.021
1880.0	18900	2.6981	2.6938	2.974	3.000
1908.5	19185	2.7013	2.7008	3.004	3.015

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4898	4.4959	4.936	4.995
1880.0	18900	4.4968	4.4991	4.991	4.956
1907.5	19175	4.4970	4.5026	5.002	4.943

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	9.0059	8.9697	9.836	9.757
1880.0	18900	9.0117	8.9483	9.798	9.734
1905.0	19150	8.9898	8.9454	9.812	9.747

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.499	13.505	14.67	14.76
1880.0	18900	13.486	13.475	14.67	14.68
1902.5	19125	13.461	13.469	14.65	14.70

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.972	17.976	19.53	19.40
1880.0	18900	17.936	17.957	19.47	19.50
1900.0	19100	17.924	17.965	19.49	19.54

LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0925	1.0934	1.243	1.236
1732.5	20175	1.0924	1.0938	1.243	1.236
1754.3	20393	1.0926	1.0943	1.244	1.232

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6973	2.6999	3.020	2.986
1732.5	20175	2.6942	2.6964	2.976	3.002
1753.5	20385	2.7007	2.6958	3.017	3.005

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5023	4.4970	4.968	4.960
1732.5	20175	4.4966	4.4904	4.972	4.983
1752.5	20375	4.5021	4.4989	4.982	4.977

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9857	8.9590	9.768	9.775
1732.5	20175	8.9742	8.9514	9.784	9.802
1750.0	20350	9.0170	8.9831	9.878	9.754

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.470	13.477	14.76	14.71
1732.5	20175	13.442	13.455	14.71	14.68
1747.5	20325	13.503	13.484	14.72	14.82

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.944	17.964	19.53	19.46
1732.5	20175	17.897	17.947	19.35	19.41
1745.0	20300	17.979	17.991	19.59	19.50

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0934	1.0952	1.244	1.241
836.5	20525	1.0935	1.0941	1.242	1.238
848.3	20643	1.0929	1.0912	1.243	1.235

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6956	2.6986	2.988	3.007
836.5	20525	2.6962	2.6985	2.987	3.008
847.5	20635	2.7009	2.6961	2.988	3.008

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.4953	4.5014	4.985	4.969
836.5	20525	4.4943	4.5030	4.989	4.986
846.5	20625	4.5017	4.4908	5.008	4.963

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9862	8.9860	9.783	9.792
836.5	20525	8.9973	8.9636	9.769	9.802
844.0	20600	9.0019	8.9623	9.781	9.732

LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5006	4.4957	4.985	5.000
2535.0	21100	4.5006	4.4990	5.033	4.953
2567.5	21425	4.4976	4.4917	5.024	4.946

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0039	8.9594	9.848	9.752
2535.0	21100	8.9926	8.9684	9.832	9.787
2565.0	21400	8.9658	8.9616	9.803	9.746

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.500	13.469	14.68	14.66
2535.0	21100	13.450	13.460	14.71	14.70
2562.5	21375	13.469	13.475	14.73	14.73

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.927	17.937	19.48	19.44
2535.0	21100	17.952	17.995	19.56	19.42
2560.0	21350	17.927	17.977	19.53	19.50

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0922	1.0925	1.241	1.237
707.5	23095	1.0920	1.0928	1.236	1.233
715.3	23173	1.0923	1.0918	1.244	1.235

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6973	2.6994	2.981	3.007
707.5	23095	2.6959	2.6992	2.987	2.995
714.5	23165	2.6963	2.6965	3.009	3.000

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5023	4.4980	4.929	4.947
707.5	23095	4.5024	4.4965	4.925	4.949
713.5	23155	**4.5040**	**4.4981**	**4.992**	**4.976**

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9764	8.9766	9.791	9.827
707.5	23095	9.0051	8.9683	9.837	9.803
711.0	23130	9.0080	8.9770	9.812	9.786

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.479	4.488	5.002	4.968
707.5	23095	4.500	4.506	4.986	5.022
713.5	23155	4.495	4.490	5.007	4.986

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.9731	8.9170	9.782	9.713

LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.0953	1.0949	1.254	1.240
1882.5	26365	1.0931	1.0981	1.253	1.259
1914.3	26683	1.0945	1.0951	1.249	1.231

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
26055.0	1851.5	2.7011	2.7005	2.977	3.026
26365.0	1882.5	2.6978	2.7002	3.018	3.014
26675.0	1913.5	2.6967	2.6970	2.995	3.001

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.4937	4.5014	4.976	5.017
1882.5	26365	4.5022	4.4972	5.019	4.977
1912.5	26665	4.4988	4.5040	4.997	4.960

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	8.9661	8.9794	9.732	9.666
1882.5	26365	8.9718	8.9696	9.774	9.820
1910.0	26640	8.9821	8.9855	9.750	9.823

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.502	13.494	14.71	14.88
1882.5	26365	13.482	13.489	14.80	14.88
1907.5	16615	13.498	13.498	14.61	14.78

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.981	17.970	19.66	19.38
1882.5	26365	17.986	17.995	19.62	19.63
1905.0	26590	17.984	18.007	19.59	19.47

LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.0941	1.0911	1.240	1.239
836.5	26915	1.0940	1.0939	1.249	1.240
848.3	27033	1.0921	1.0930	1.242	1.239

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.6968	2.6959	2.980	3.000
836.5	26915	2.6982	2.6999	2.986	3.000
847.5	27025	2.6966	2.6992	2.992	2.998

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.4898	4.4969	4.984	4.938
836.5	26915	4.4847	4.4610	4.988	4.953
846.5	27015	4.5022	4.4990	4.979	5.005

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	26840	9.0077	8.9813	9.818	9.832
836.5	26915	8.9945	8.9488	9.828	9.796
844.0	26990	8.9957	8.9545	9.810	9.770

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.480	13.469	14.67	14.63
836.5	26915	13.473	13.468	14.68	14.61
841.5	26965	13.482	13.451	14.60	14.66

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0915	1.0916	1.239	1.233
819.0	26740	1.0939	1.0917	1.241	1.236
823.3	26783	1.0931	1.0934	1.239	1.234

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.6903	2.7011	2.988	3.007
819.0	26740	2.6950	2.7003	2.976	3.005
822.5	26775	2.6910	2.7001	2.995	3.001

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
816.5	26715	**4.4975**	**4.4975**	4.976	**4.976**
819.0	26740	4.4875	4.4973	4.976	4.937
821.5	26765	4.4932	4.4913	**4.983**	4.933

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
819.0	26740	8.9855	8.9589	9.779	9.667

LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.493	4.498	4.982	4.949
2310.0	27710	4.492	4.498	4.976	4.996
2312.5	27735	4.493	4.502	4.986	4.964

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2310.0	27710	8.9979	8.9631	9.826	9.720

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2547.5	40165	4.5094	4.5034	5.231	5.946
2600.0	40690	4.5110	4.4941	5.275	5.056
2652.5	41215	4.5079	4.5064	5.193	4.968

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2550.0	40190	8.9780	8.9914	9.726	10.260
2600.0	40690	8.9777	8.9870	9.788	10.300
2650.0	41190	8.9823	8.9709	9.757	10.170

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2552.5	40215	13.490	13.486	14.57	14.84
2600.0	40690	13.479	13.440	14.53	14.78
2647.5	41165	13.503	13.497	14.92	14.58

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2555.0	40240	17.976	17.923	20.40	19.37
2600.0	40690	17.918	17.914	20.11	19.45
2645.0	41140	17.952	17.926	19.80	19.56

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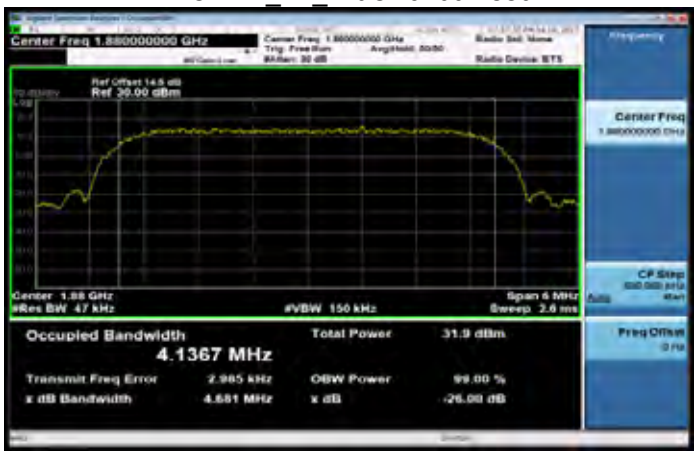
HSDPA_B2_LowCH9262-1852.4

WCDMA_B2_MidCH9400-1880



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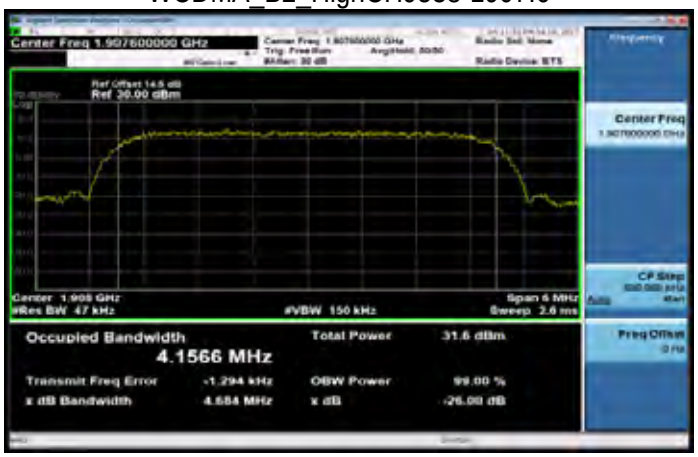

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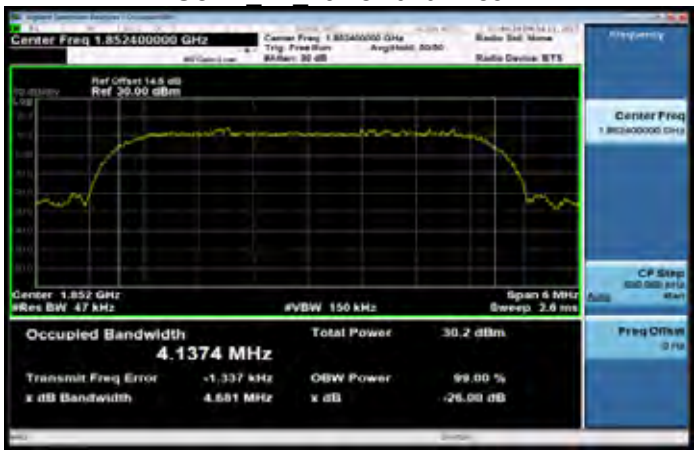

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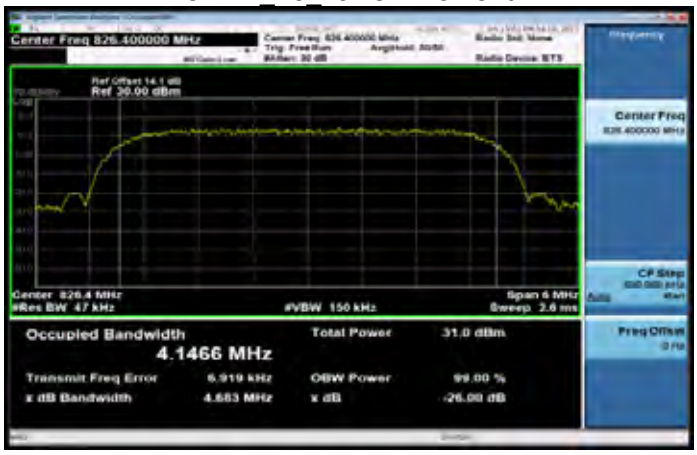

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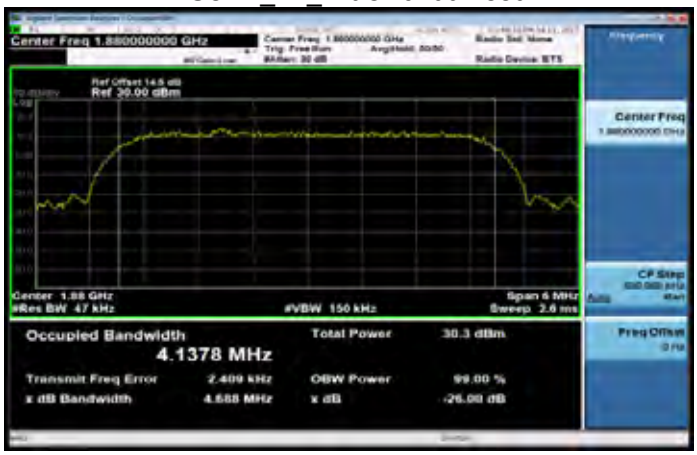

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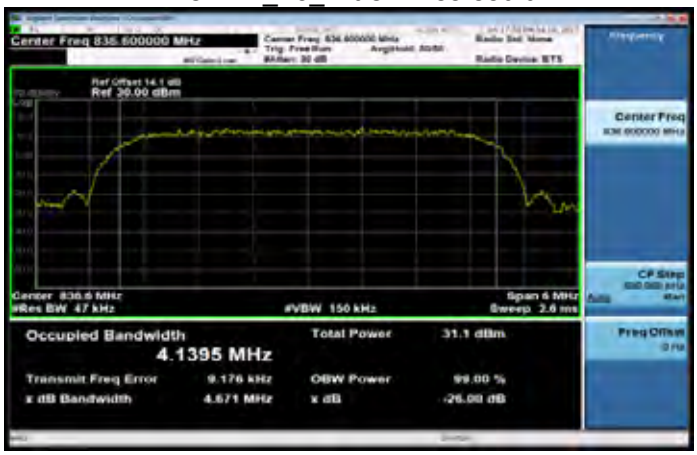

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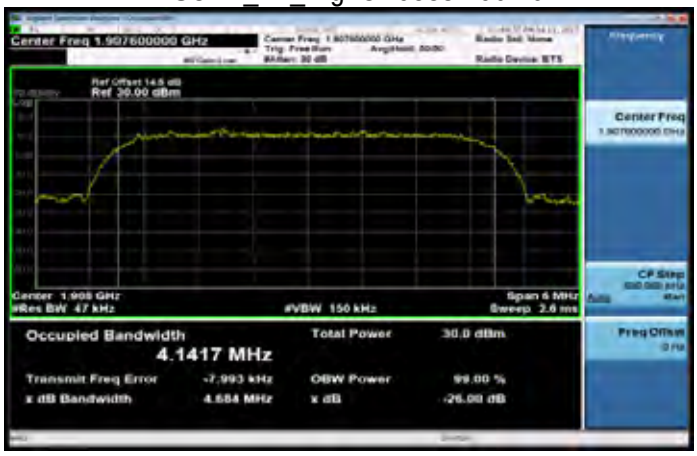

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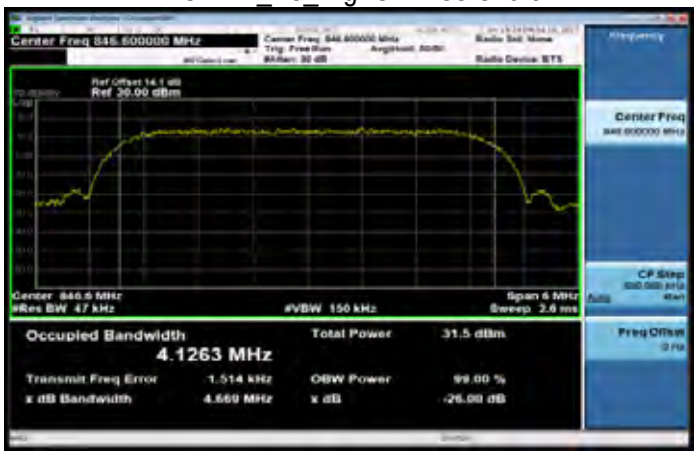

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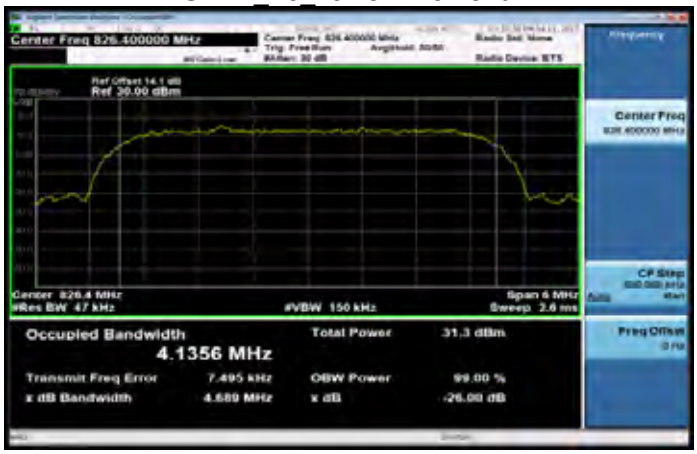

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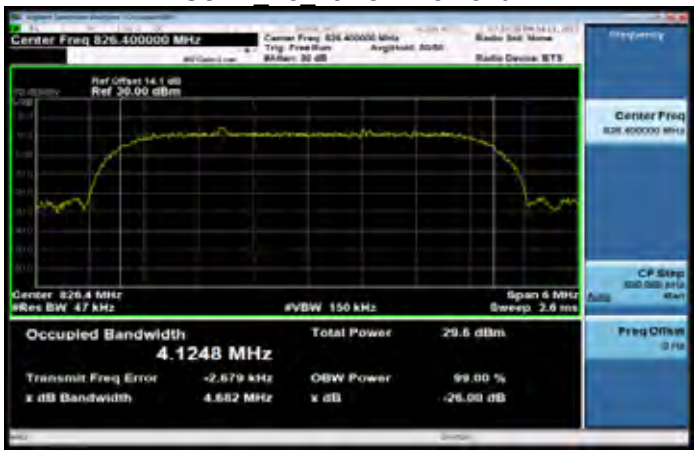

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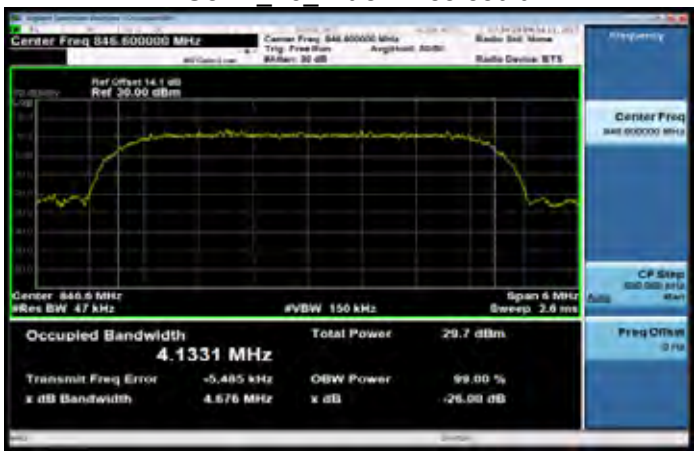
HSUPA_B5_MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6

HSUPA_B5_HighCH4233-846.6

Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7

Band2 1.4MHz_16-QAM 6 0_LowCH18607-1850.7

Band2 1.4MHz_QPSK 6 0_MidCH18900-1880

Band2 1.4MHz_16-QAM 6 0_MidCH18900-1880

Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3

Band2 1.4MHz_16-QAM 6 0_HighCH19193-1909.3

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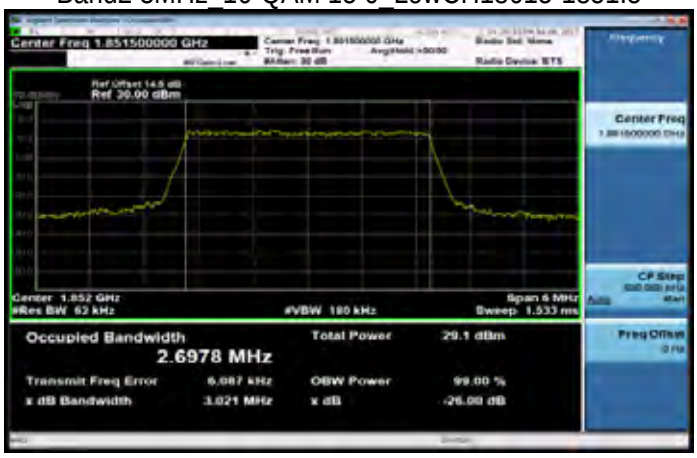
Band2 3MHz_16-QAM 15 0_LowCH18615-1851.5



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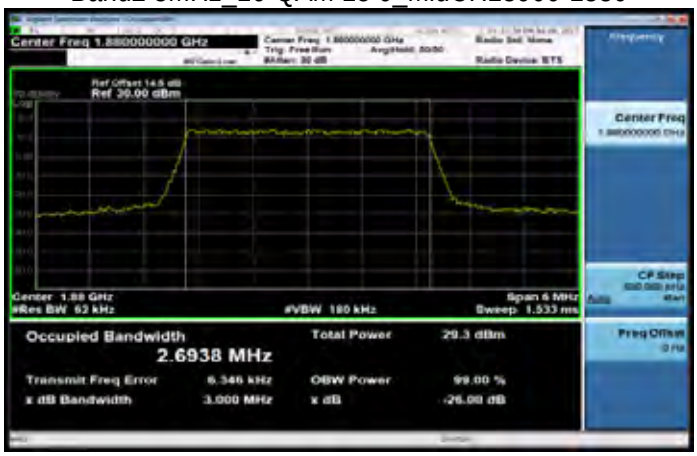
Band2 3MHz_16-QAM 15 0_MidCH18900-1880



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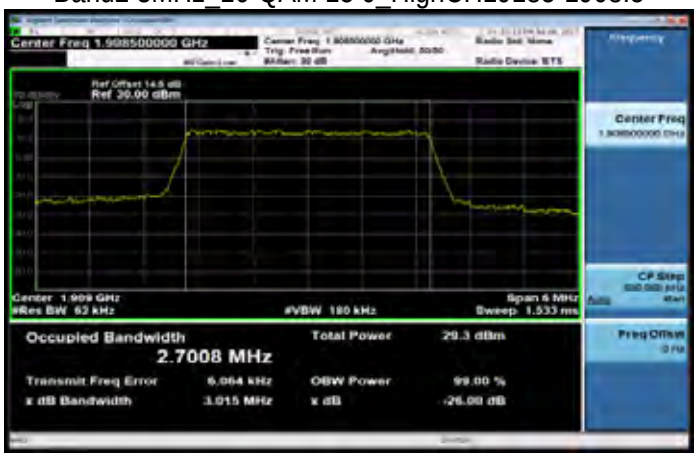
Band2 3MHz_16-QAM 15 0_HighCH19185-1908.5



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Band2 5MHz_16-QAM 25 0_LowCH18625-1852.5

Band2 5MHz_QPSK 25 0_MidCH18900-1880

Band2 5MHz_16-QAM 25 0_MidCH18900-1880

Band2 5MHz_QPSK 25 0_HighCH19175-1907.5

Band2 5MHz_16-QAM 25 0_HighCH19175-1907.5

Band2 10MHz_QPSK 50 0_LowCH18650-1855

Band2 10MHz_16-QAM 50 0_LowCH18650-1855

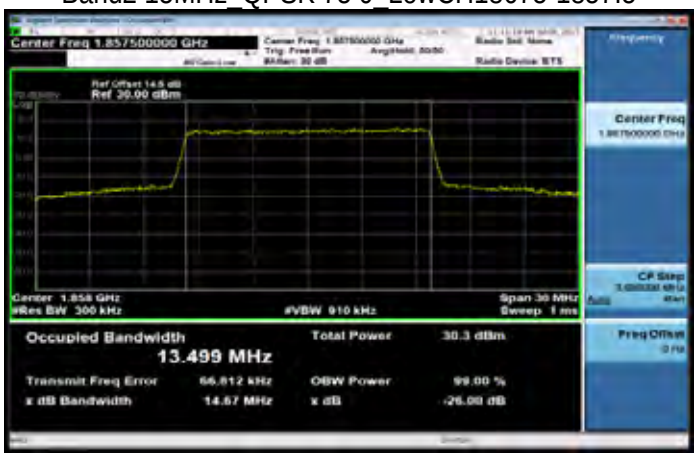
Band2 10MHz_QPSK 50 0_MidCH18900-1880

Band2 10MHz_16-QAM 50 0_MidCH18900-1880

Band2 10MHz_QPSK 50 0_HighCH19150-1905

Band2 10MHz_16-QAM 50 0_HighCH19150-1905

Band2 15MHz_QPSK 75 0_LowCH18675-1857.5



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Band2 15MHz_16-QAM 75 0_MidCH18900-1880

Band2 15MHz_QPSK 75 0_HighCH19125-1902.5

Band2 15MHz_16-QAM 75 0_HighCH19125-1902.5

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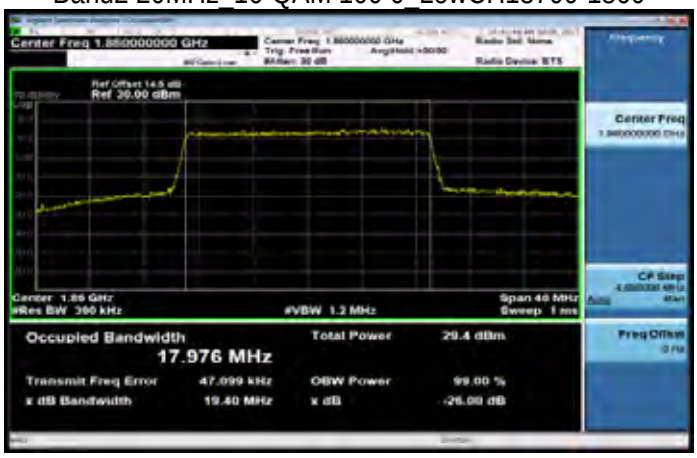
Band2 20MHz_16-QAM 100 0_LowCH18700-1860



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Band2 20MHz_16-QAM 100 0_MidCH18900-1880

Band2 20MHz_QPSK 100 0_HighCH19100-1900

Band2 20MHz_16-QAM 100 0_HighCH19100-1900

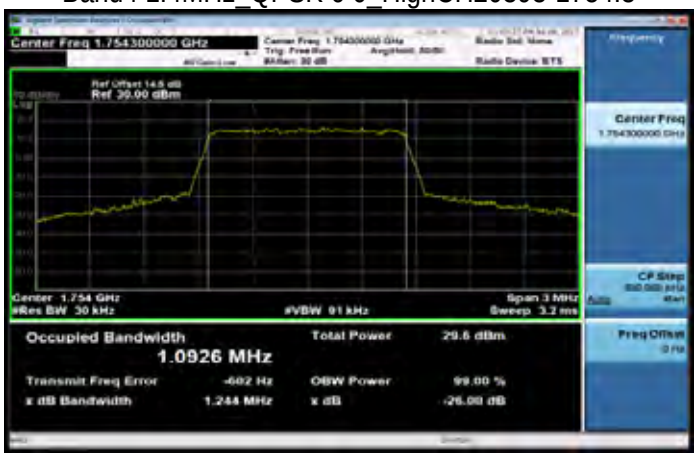
Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7

Band4 1.4MHz_16-QAM 6 0_LowCH19957-1710.7

Band4 1.4MHz_QPSK 6 0_MidCH20175-1732.5

Band4 1.4MHz_16-QAM 6 0_MidCH20175-1732.5

Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3



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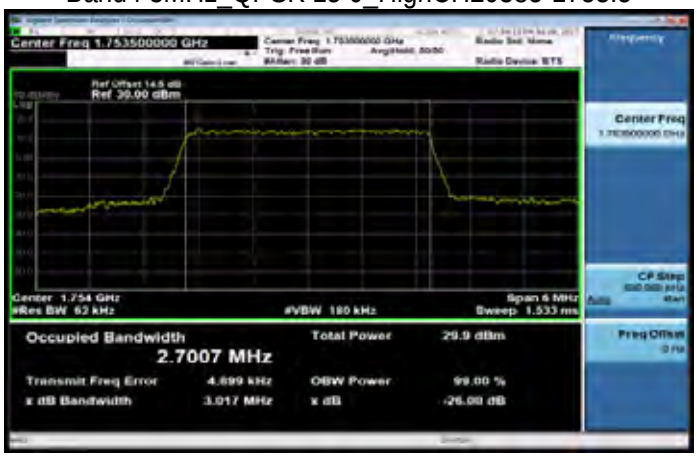
Band4 3MHz_16-QAM 15 0_LowCH19965-1711.5

Band4 3MHz_QPSK 15 0_MidCH20175-1732.5

Band4 3MHz_16-QAM 15 0_MidCH20175-1732.5

Band4 3MHz_QPSK 15 0_HighCH20385-1753.5



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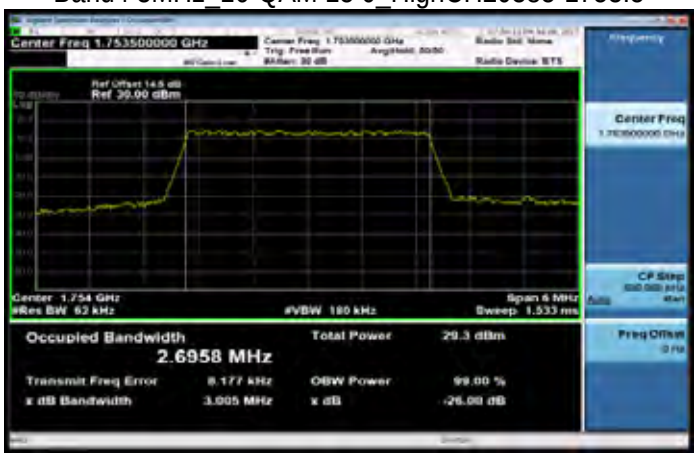

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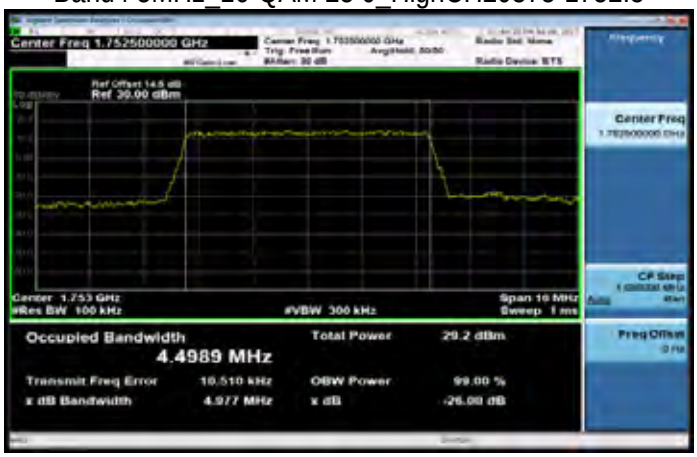
Band4 5MHz_16-QAM 25 0_LowCH19975-1712.5

Band4 5MHz_QPSK 25 0_MidCH20175-1732.5

Band4 5MHz_16-QAM 25 0_MidCH20175-1732.5

Band4 5MHz_QPSK 25 0_HighCH20375-1752.5

Band4 5MHz_16-QAM 25 0_HighCH20375-1752.5



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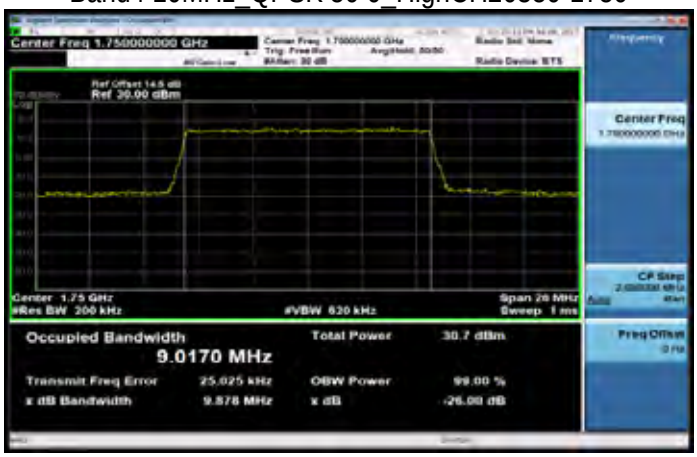
Band4 10MHz_16-QAM 50 0_LowCH20000-1715

Band4 10MHz_QPSK 50 0_MidCH20175-1732.5

Band4 10MHz_16-QAM 50 0_MidCH20175-1732.5

Band4 10MHz_QPSK 50 0_HighCH20350-1750



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Band4 15MHz_QPSK 75 0_LowCH20025-1717.5

Band4 15MHz_16-QAM 75 0_LowCH20025-1717.5

Band4 15MHz_QPSK 75 0_MidCH20175-1732.5

Band4 15MHz_16-QAM 75 0_MidCH20175-1732.5

Band4 15MHz_QPSK 75 0_HighCH20325-1747.5

Band4 15MHz_16-QAM 75 0_HighCH20325-1747.5

Band4 20MHz_QPSK 100 0_LowCH20050-1720

Band4 20MHz_16-QAM 100 0_LowCH20050-1720

Band4 20MHz_QPSK 100 0_MidCH20175-1732.5

Band4 20MHz_16-QAM 100 0_MidCH20175-1732.5

Band4 20MHz_QPSK 100 0_HighCH20300-1745

Band4 20MHz_16-QAM 100 0_HighCH20300-1745

Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7

Band5 1.4MHz_16-QAM 6 0_LowCH20407-824.7

Band5 1.4MHz_QPSK 6 0_MidCH20525-836.5

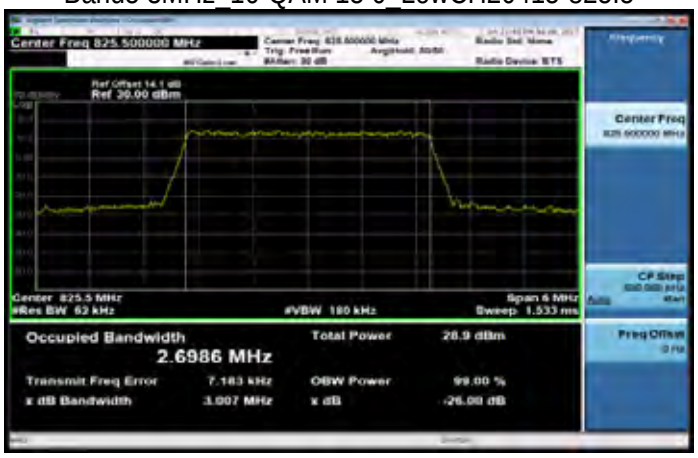
Band5 1.4MHz_16-QAM 6 0_MidCH20525-836.5

Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3

Band5 1.4MHz_16-QAM 6 0_HighCH20643-848.3

Band5 3MHz_QPSK 15 0_LowCH20415-825.5

Band5 3MHz_16-QAM 15 0_LowCH20415-825.5



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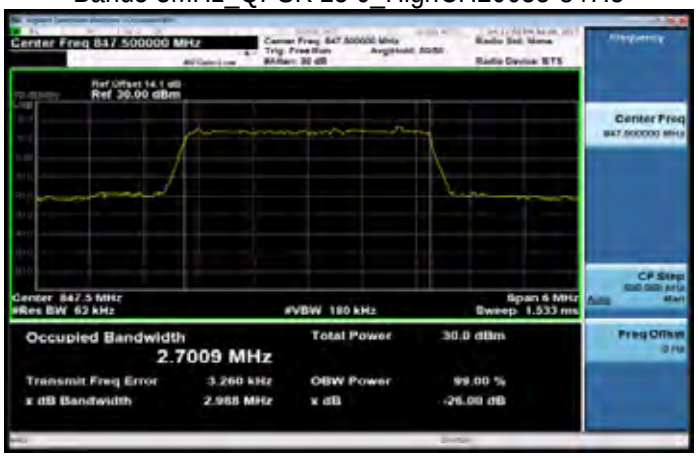
Band5 3MHz_16-QAM 15 0_MidCH20525-836.5

Band5 3MHz_QPSK 15 0_HighCH20635-847.5



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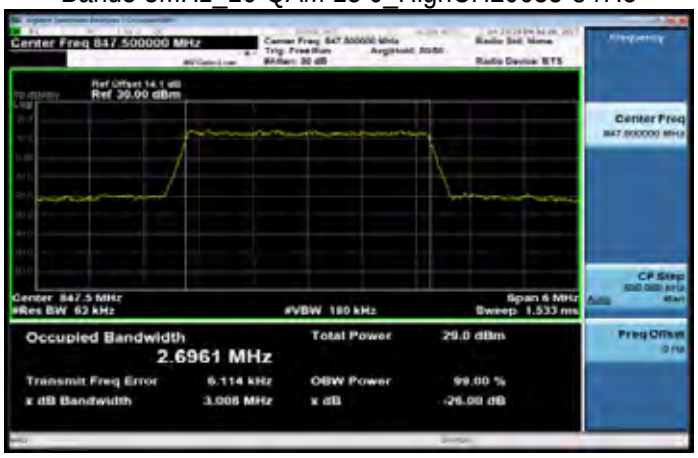
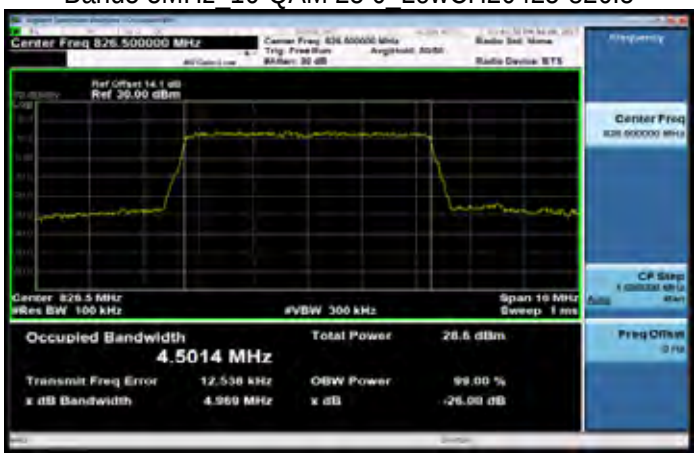


Band5 5MHz_QPSK 25 0_LowCH20425-826.5

Band5 5MHz_16-QAM 25 0_LowCH20425-826.5



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Band5 5MHz_16-QAM 25 0_MidCH20525-836.5

Band5 5MHz_QPSK 25 0_HighCH20625-846.5

Band5 5MHz_16-QAM 25 0_HighCH20625-846.5

Band5 10MHz_QPSK 50 0_LowCH20450-829

Band5 10MHz_16-QAM 50 0_LowCH20450-829

Band5 10MHz_QPSK 50 0_MidCH20525-836.5

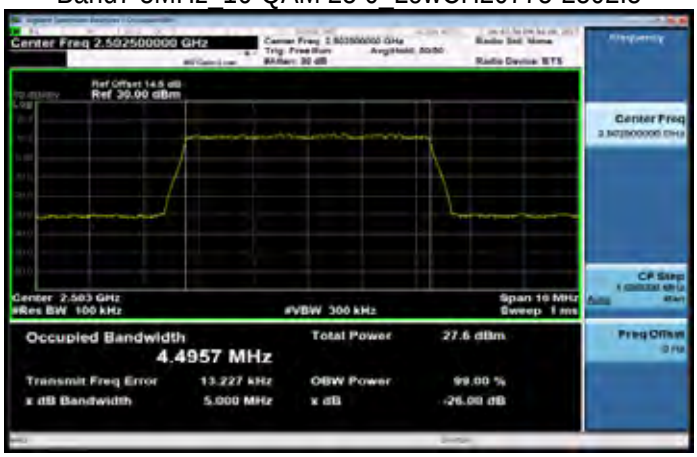
Band5 10MHz_16-QAM 50 0_MidCH20525-836.5

Band5 10MHz_QPSK 50 0_HighCH20600-844

Band5 10MHz_16-QAM 50 0_HighCH20600-844

Band7 5MHz_QPSK 25 0_LowCH20775-2502.5

Band7 5MHz_16-QAM 25 0_LowCH20775-2502.5



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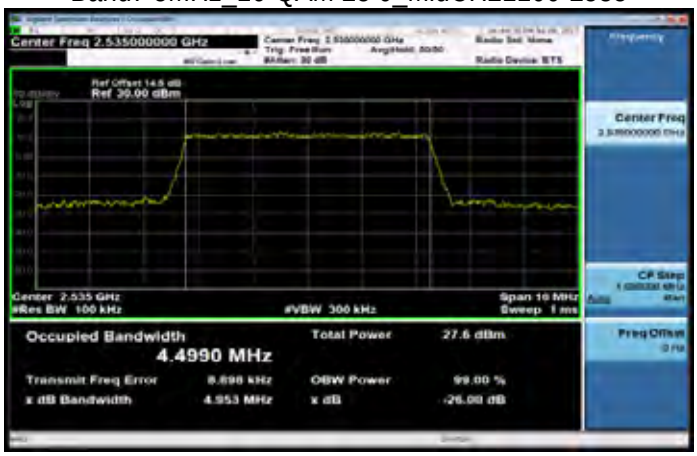
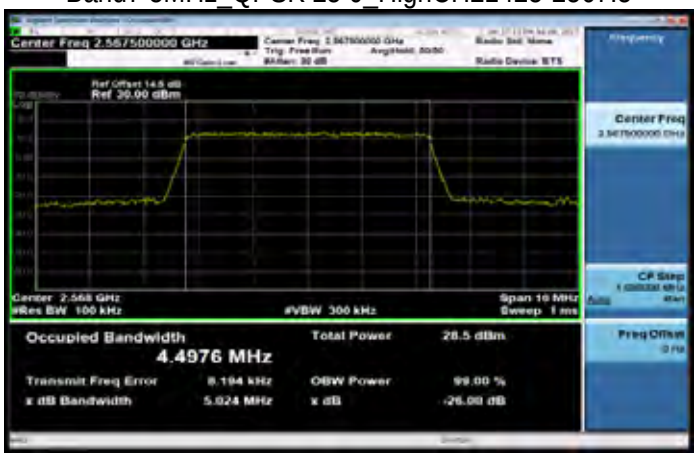
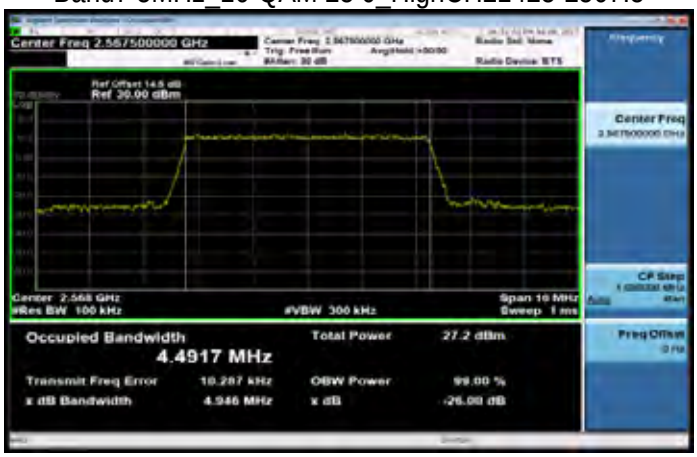
Band7 5MHz_16-QAM 25 0_MidCH21100-2535



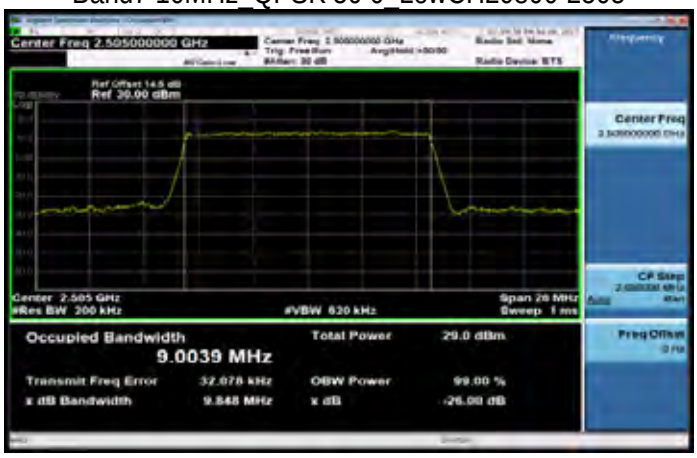
Band7 5MHz_QPSK 25 0_HighCH21425-2567.5



Band7 5MHz_16-QAM 25 0_HighCH21425-2567.5

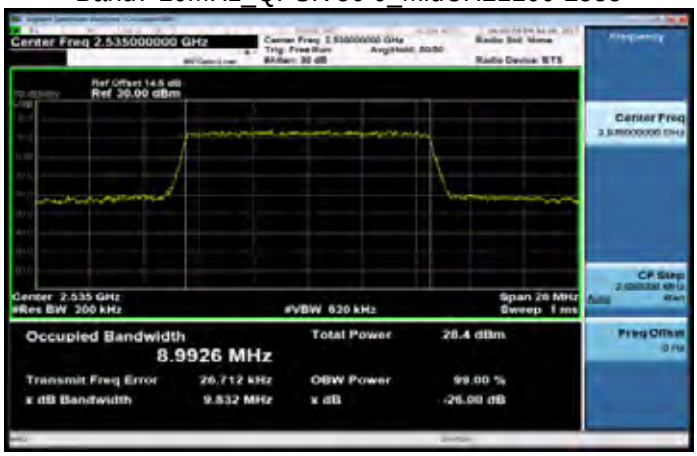


Band7 10MHz_QPSK 50 0_LowCH20800-2505



Band7 10MHz_16-QAM 50 0_LowCH20800-2505

Band7 10MHz_QPSK 50 0_MidCH21100-2535



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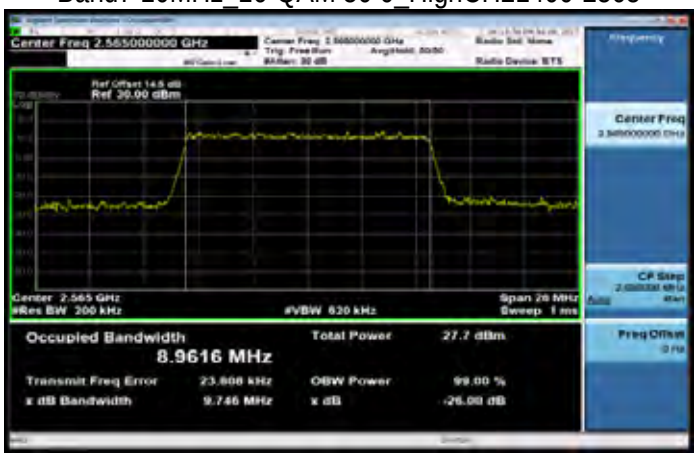
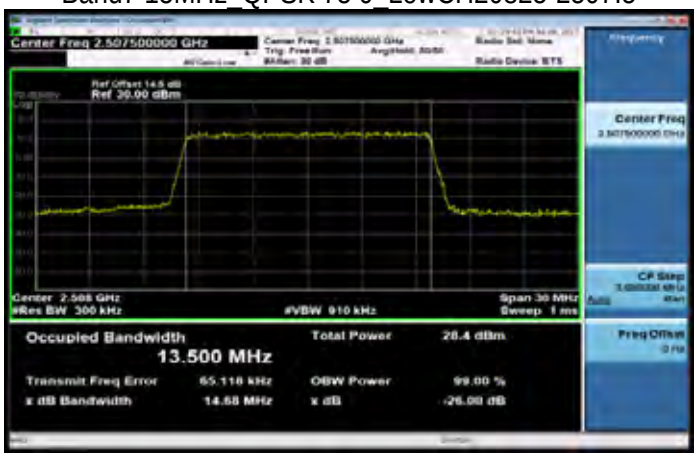
Band7 10MHz_QPSK 50 0_HighCH21400-2565

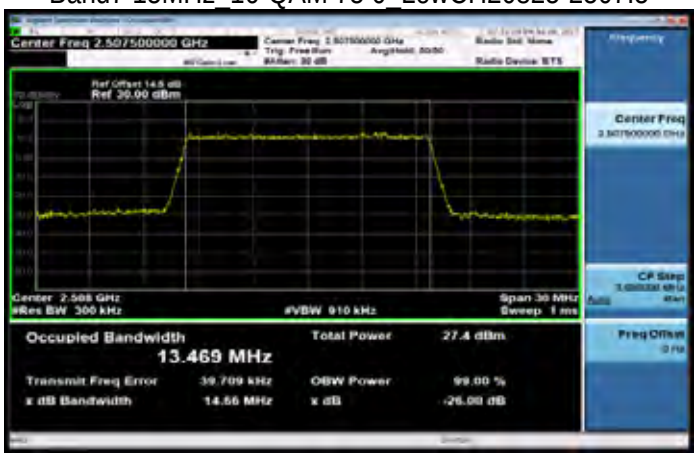
Band7 10MHz_16-QAM 50 0_HighCH21400-2565



Band7 15MHz_QPSK 75 0_LowCH20825-2507.5



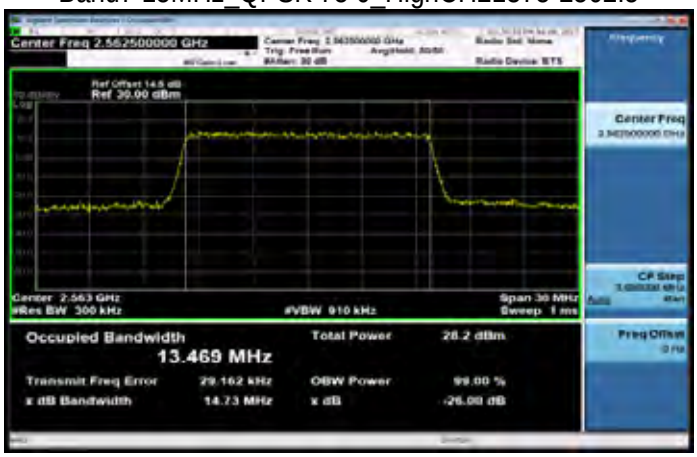
Band7 15MHz_16-QAM 75 0_LowCH20825-2507.5



Band7 15MHz_QPSK 75 0_MidCH21100-2535

Band7 15MHz_16-QAM 75 0_MidCH21100-2535

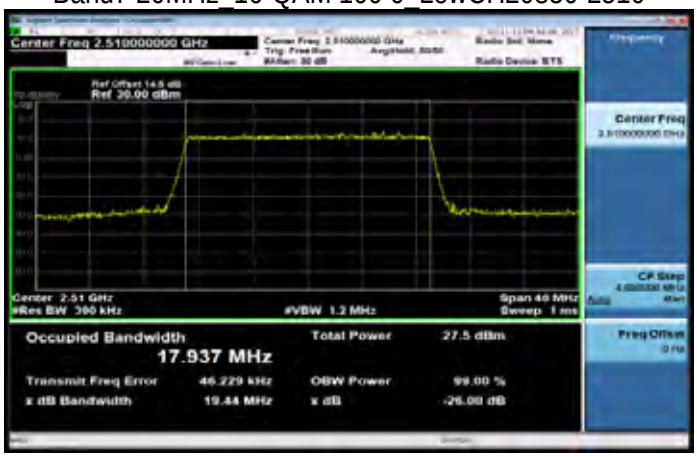
Band7 15MHz_QPSK 75 0_HighCH21375-2562.5



Band7 15MHz_16-QAM 75 0_HighCH21375-2562.5

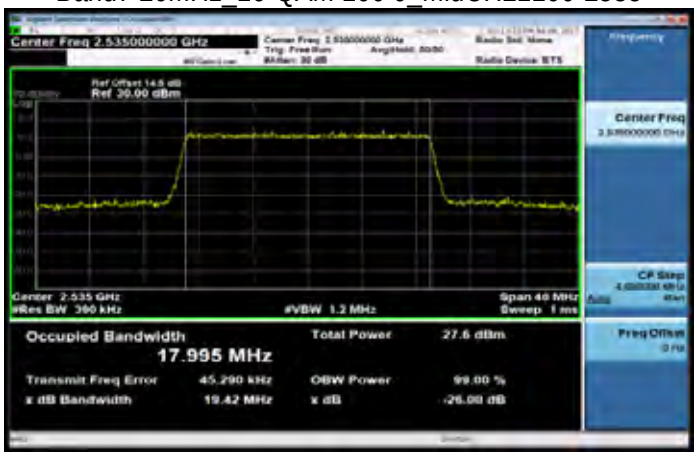
Band7 20MHz_QPSK 100 0_LowCH20850-2510

Band7 20MHz_16-QAM 100 0_LowCH20850-2510



Band7 20MHz_QPSK 100 0_MidCH21100-2535

Band7 20MHz_16-QAM 100 0_MidCH21100-2535



Band7 20MHz_QPSK 100 0_HighCH21350-2560

Band7 20MHz_16-QAM 100 0_HighCH21350-2560

Band12 1.4MHz_QPSK 6 0_LowCH23017-699.7

Band12 1.4MHz_16-QAM 6 0_LowCH23017-699.7

Band12 1.4MHz_QPSK 6 0_MidCH23095-707.5

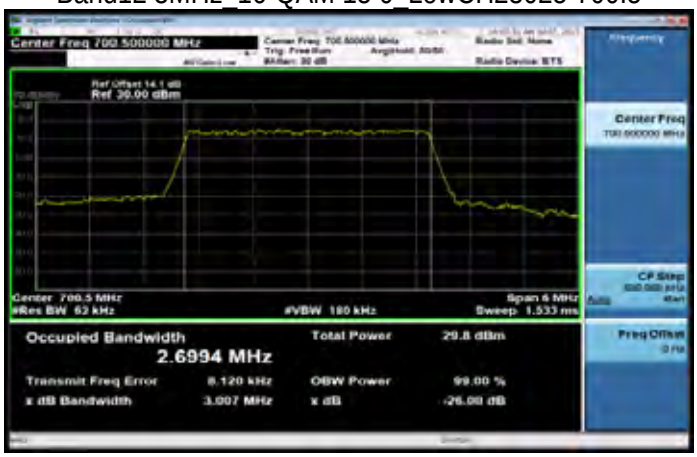
Band12 1.4MHz_16-QAM 6 0_MidCH23095-707.5

Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3

Band12 1.4MHz_16-QAM 6 0_HighCH23173-715.3

Band12 3MHz_QPSK 15 0_LowCH23025-700.5

Band12 3MHz_16-QAM 15 0_LowCH23025-700.5



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Band12 3MHz_16-QAM 15 0_MidCH23095-707.5

Band12 3MHz_QPSK 15 0_HighCH23165-714.5

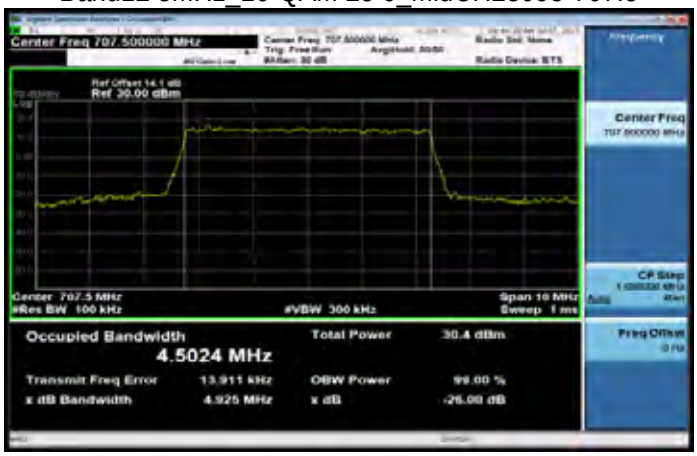
Band12 3MHz_16-QAM 15 0_HighCH23165-714.5

Band12 5MHz_QPSK 25 0_LowCH23035-701.5

Band12 5MHz_16-QAM 25 0_LowCH23035-701.5

Band12 5MHz_QPSK 25 0_MidCH23095-707.5

Band12 5MHz_16-QAM 25 0_MidCH23095-707.5



Band12 5MHz_QPSK 25 0_HighCH23155-713.5

Band12 5MHz_16-QAM 25 0_HighCH23155-713.5

Band12 10MHz_QPSK 50 0_LowCH23060-704

Band12 10MHz_16-QAM 50 0_LowCH23060-704

Band12 10MHz_QPSK 50 0_MidCH23095-707.5

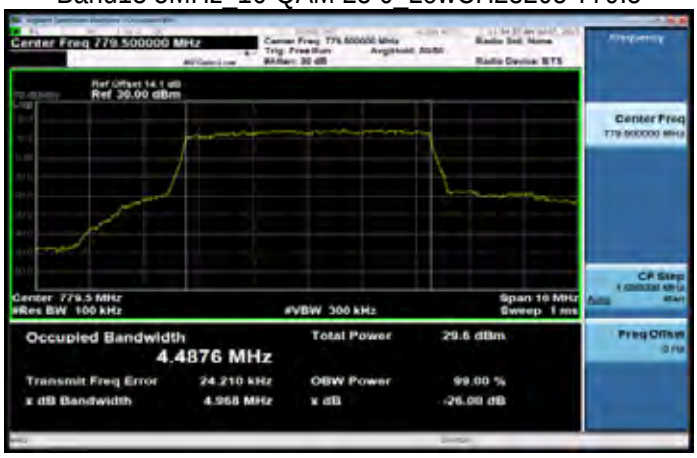
Band12 10MHz_16-QAM 50 0_MidCH23095-707.5

Band12 10MHz_QPSK 50 0_HighCH23130-711

Band12 10MHz_16-QAM 50 0_HighCH23130-711

Band13 5MHz_QPSK 25 0_LowCH23205-779.5

Band13 5MHz_16-QAM 25 0_LowCH23205-779.5



Band13 5MHz_QPSK 25 0_MidCH23230-782

Band13 5MHz_16-QAM 25 0_MidCH23230-782

Band13 5MHz_QPSK 25 0_HighCH23255-784.5

Band13 5MHz_16-QAM 25 0_HighCH23255-784.5

Band13 10MHz_QPSK 50 0_MidCH23230-782

Band13 10MHz_16-QAM 50 0_MidCH23230-782

Band25 1.4MHz_QPSK 6 0_LowCH26047-1850.7

Band25_1_4MHz_16QAM_6 0_ LowCH26047-1850.7

Band25 1.4MHz_QPSK 6 0_ MidCH26365-1882.5

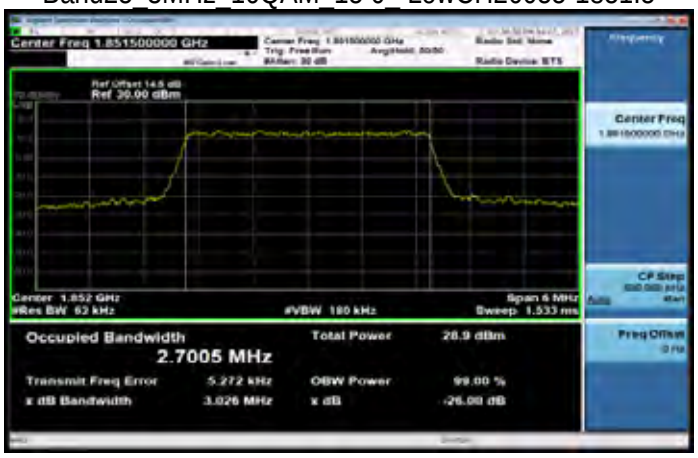
Band25_1_4MHz_16QAM_6 0_ MidCH26365-1882.5

Band25 1.4MHz_QPSK 6 0_ HighCH26683-1914.3

Band25_1_4MHz_16QAM_6 0_ HighCH26683-1914.3

Band25_3MHz_QPSK_15 0_ LowCH26055-1851.5

Band25_3MHz_16QAM_15 0_ LowCH26055-1851.5



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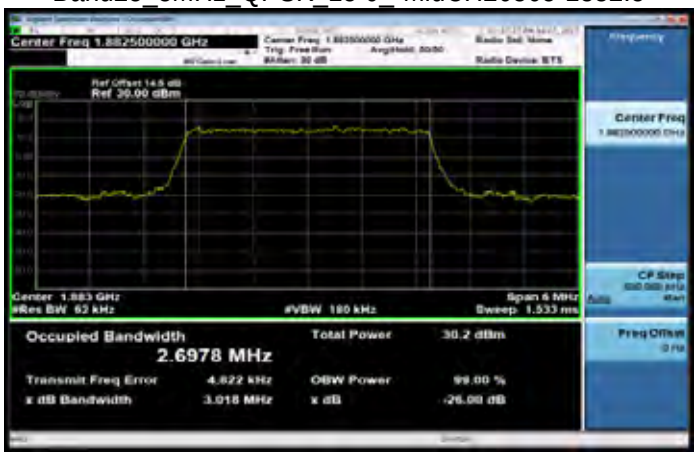


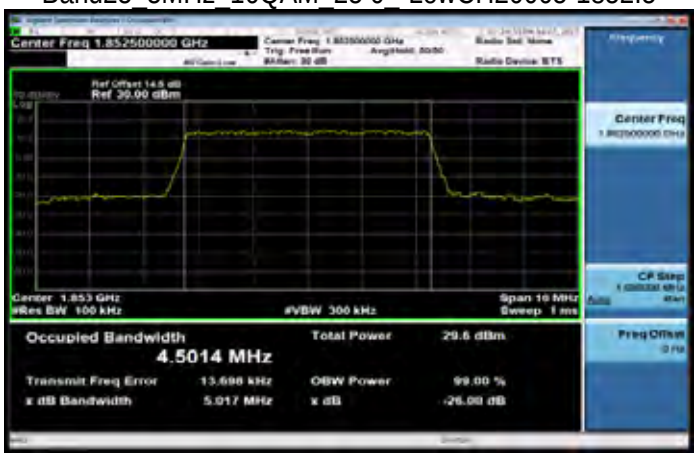
Band25_3MHz_16QAM_15 0_ MidCH26365-1882.5

Band25_3MHz_QPSK_15 0_ HighCH26675-1913.5

Band25_3MHz_16QAM_15 0_ HighCH26675-1913.5

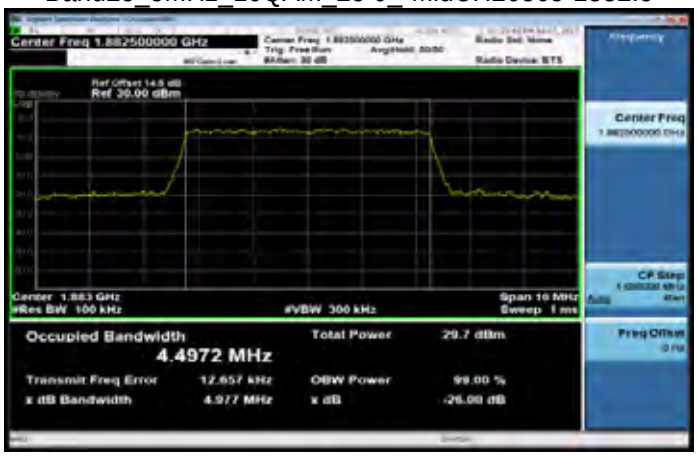
Band25_5MHz_QPSK_25 0_ LowCH26065-1852.5

Band25_5MHz_16QAM_25 0_ LowCH26065-1852.5



Band25_5MHz_QPSK_25 0_ MidCH26365-1882.5

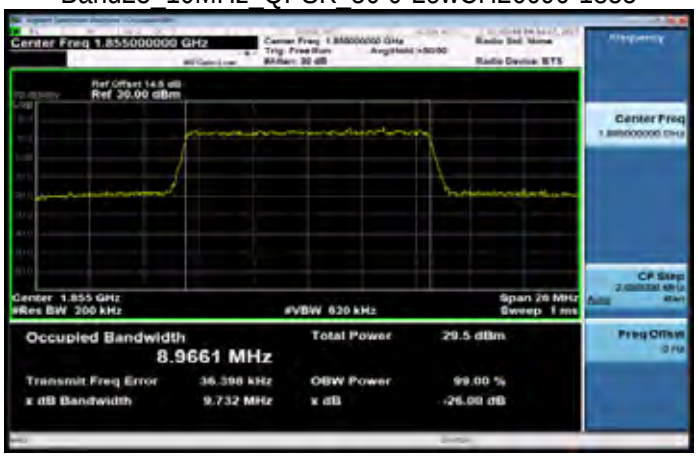
Band25_5MHz_16QAM_25 0_ MidCH26365-1882.5



Band25_5MHz_QPSK_25 0_ HighCH26665-1912.5

Band25_5MHz_16QAM_25 0_ HighCH26665-1912.5

Band25_10MHz_QPSK_50 0 LowCH26090-1855



Band25_10MHz_16QAM_50 0_ LowCH26090-1855

Band25_10MHz_QPSK_50 0 _ MidCH26365-1882.5

Band25_10MHz_16QAM _50 0_ MidCH26365-1882.5

Band25_10MHz_QPSK_50 0 _ HighCH26640-1910

Band25_10MHz_16QAM _50 0 _ HighCH26640-1910

Band25_15MHz_QPSK_75 0_LowCH26090-1855

Band25_15MHz_16QAM_75 0_LowCH26090-1855

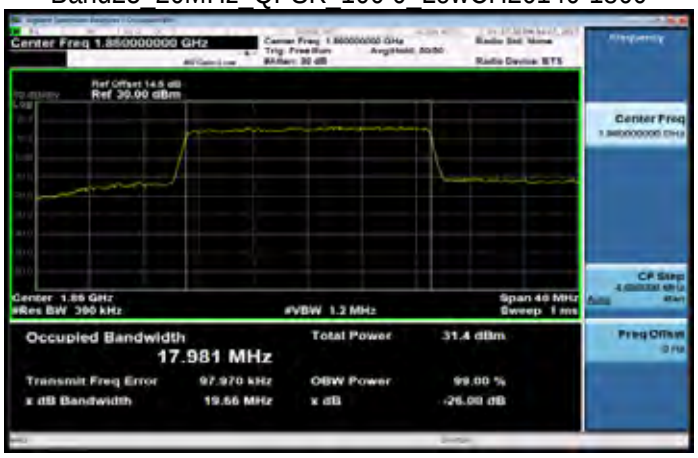
Band25_15MHz_QPSK_75 0_ MidCH26365-1882.5

Band25_15MHz_16QAM_75 0_LowCH26090-1855

Band25_15MHz_QPSK_75 0_ HighCH26640-1910

Band25_15MHz_16QAM_75 0_ HighCH26640-1910

Band25_20MHz_QPSK_100 0_LowCH26140-1860



Band25_20MHz_16QAM_100 0_LowCH26140-1860

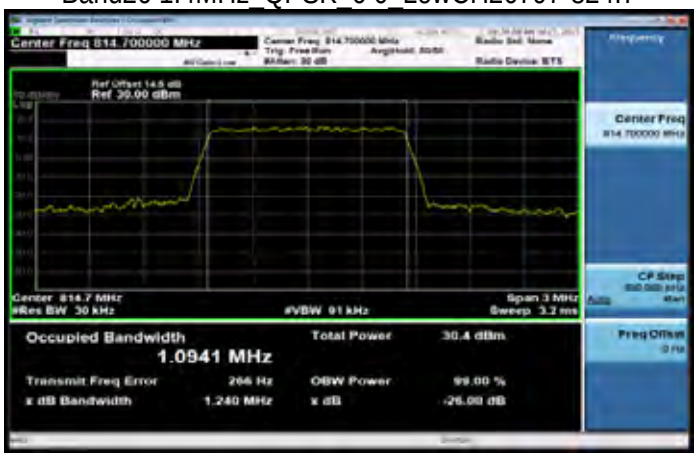
Band25_20MHz_QPSK_100 0_MidCH26365-1882.5

Band25_20MHz_16QAM_100 0_MidCH26365-1882.5

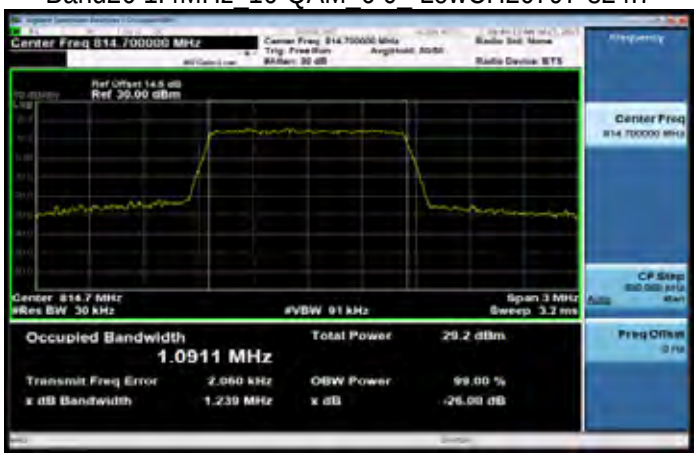
Band25_20MHz_QPSK_100 0_HighCH26590-1905

Band25_20MHz_16QAM_100 0_HighCH26590-1905

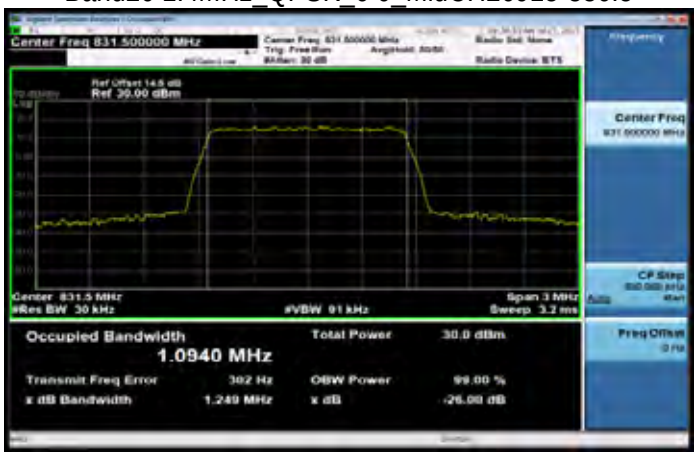
Band26 1.4MHz_QPSK_6 0_LowCH26797-824.7



Band26 1.4MHz_16-QAM_6 0_ LowCH26797-824.7



Band26 1.4MHz_QPSK_6 0_MidCH26915-836.5



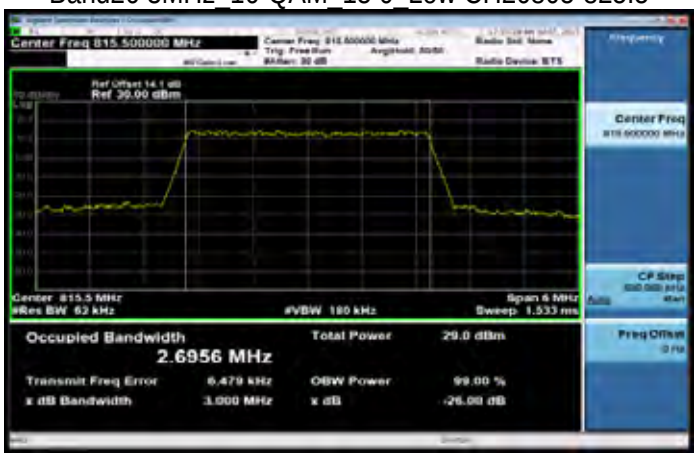
Band26 1.4MHz_16-QAM_6 0_ MidCH26915-836.5

Band26 1.4MHz_QPSK_6 0_HighCH27033-848.3

Band26 1.4MHz_16-QAM_6 0_ HighCH27033-848.3

Band26 3MHz_QPSK_15 0_LowCH26805-825.5

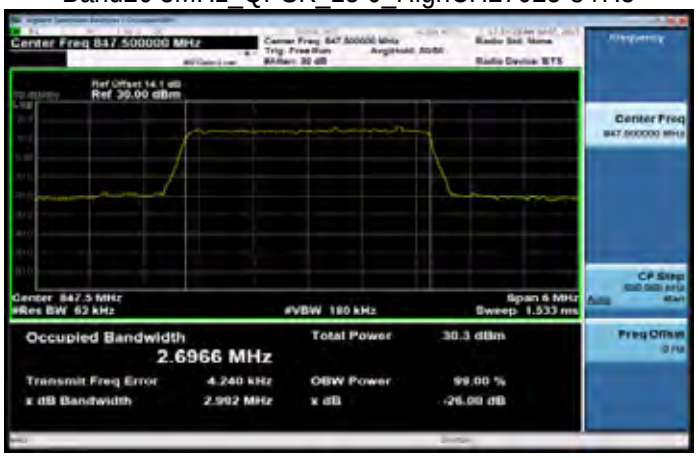
Band26 3MHz_16-QAM_15 0_Low CH26805-825.5



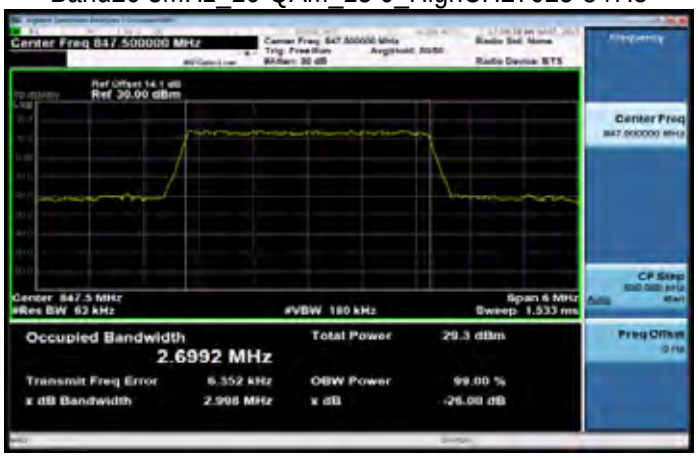
Band26 3MHz_QPSK_15 0_MidCH26915-836.5

Band26 3MHz_16-QAM_15 0_Mid CH26915-836.5

Band26 3MHz_QPSK_15 0_HighCH27025-847.5



Band26 3MHz_16-QAM_15 0_HighCH27025-847.5



Band26 5MHz_QPSK_25 0_LowCH26815-826.5

Band26 5MHz_16-QAM_25 0_LowCH26815-826.5

Band26 5MHz_QPSK_25 0_MidCH26915-836.5

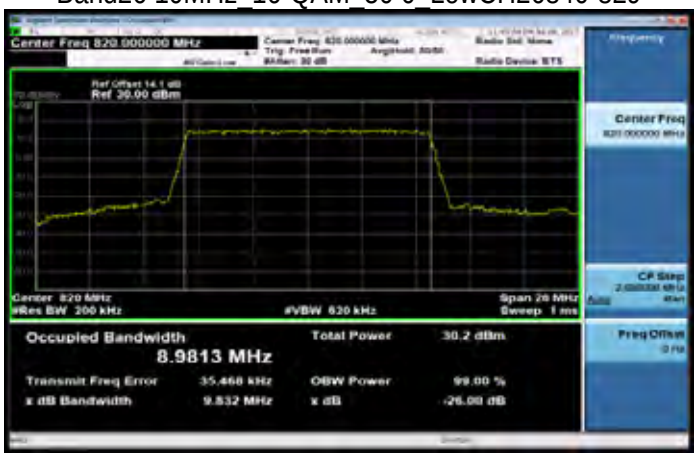
Band26 5MHz_16-QAM_25 0_MidCH26915-836.5

Band26 5MHz_QPSK_25 0_HighCH27015-846.5

Band26 5MHz_16-QAM_25 0_HighCH27015-846.5

Band26 10MHz_QPSK_50 0_LowCH26840-829

Band26 10MHz_16-QAM_50 0_LowCH26840-829



Band26 10MHz_ QPSK_50 0_MidCH26915-831.5

Band26 10MHz_16-QAM_50 0_MidCH26915-831.5

Band26 10MHz_QPSK_50 0_HighCH26990-844

Band26 10MHz_16-QAM_50 0_HighCH26990-844

Band26 15MHz_QPSK_75 0_LowCH26825-822.5

Band26 15MHz_16QAM_75 0_LowCH26825-822.5

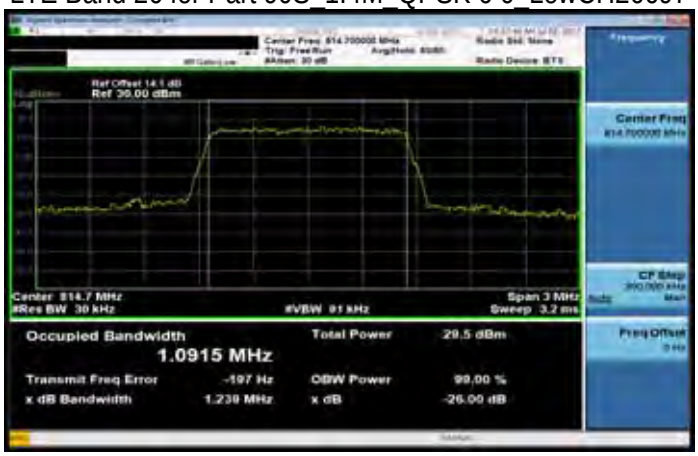
Band26 15MHz_QPSK_75 0_MidCH26865-831.5

Band26 15MHz_16QAM_75 0_MidCH26865-831.5

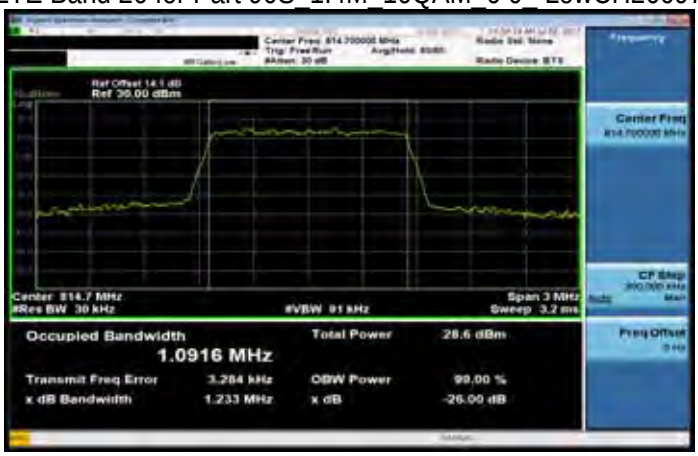
Band26 15MHz_QPSK_75 0_HighCH26965-841.5

Band26 15MHz_16QAM_75 0_HighCH26965-841.5

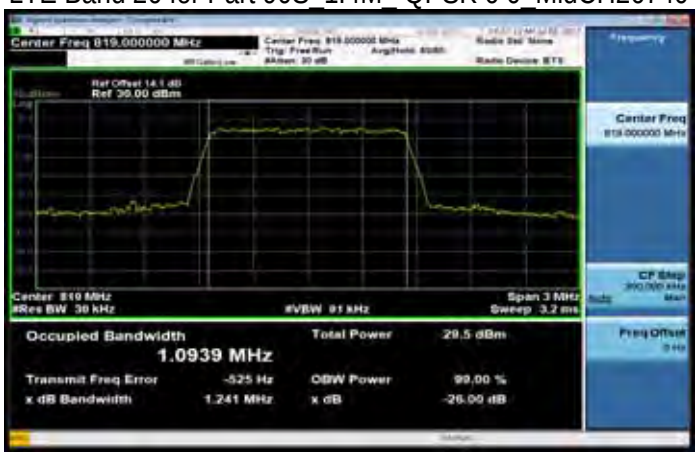
LTE Band 26 for Part 90S_1.4M_QPSK 6 0_LowCH26697



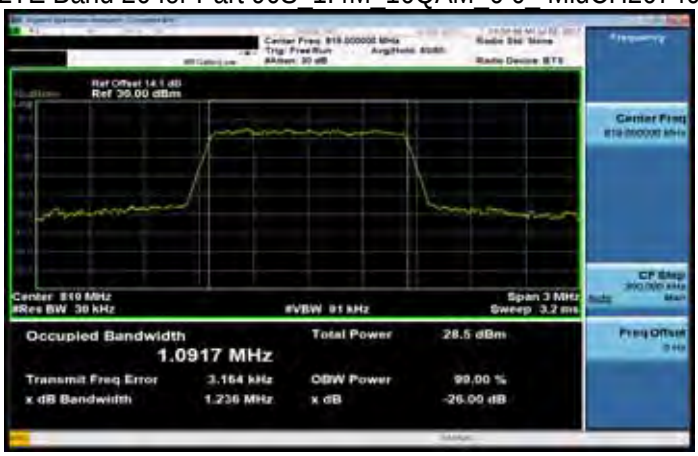
LTE Band 26 for Part 90S_1.4M_16QAM_6 0_LowCH26697



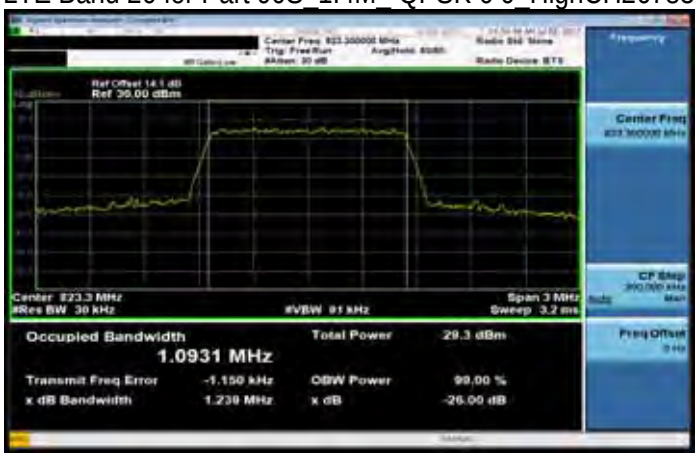
LTE Band 26 for Part 90S_1.4M_QPSK 6 0_MidCH26740



LTE Band 26 for Part 90S_1.4M_16QAM_6 0_MidCH26740



LTE Band 26 for Part 90S_1.4M_QPSK 6 0_HighCH26783



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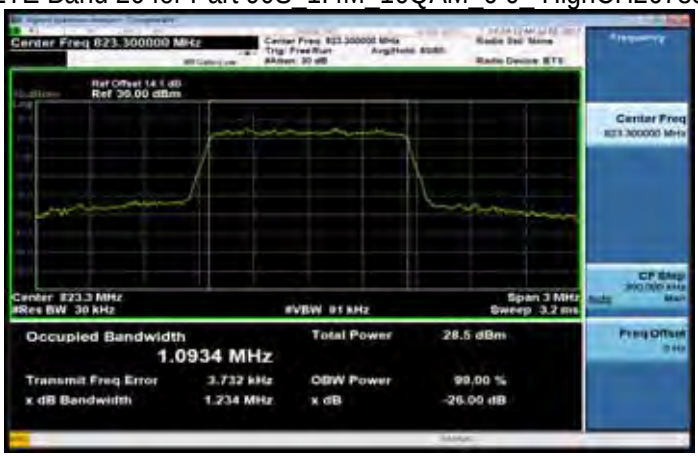
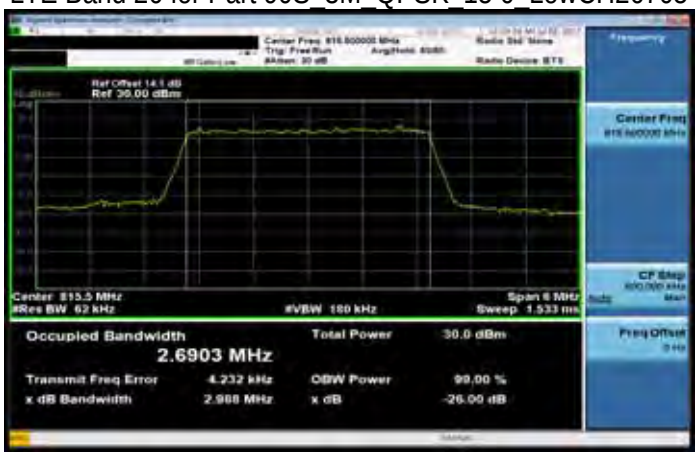
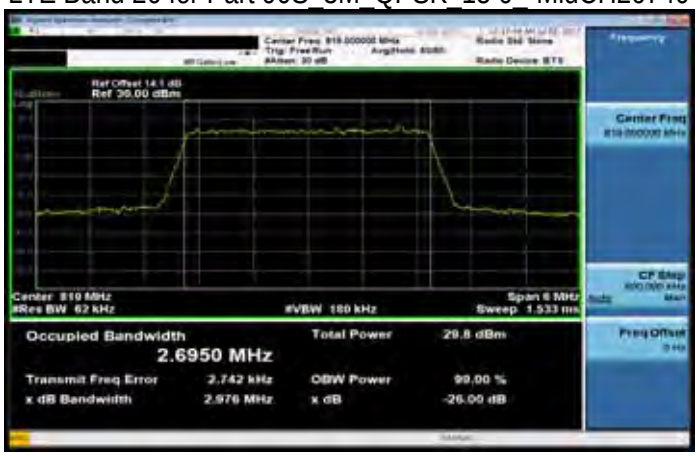


LTE Band 26 for Part 90S_3M_QPSK_15 0_LowCH26705

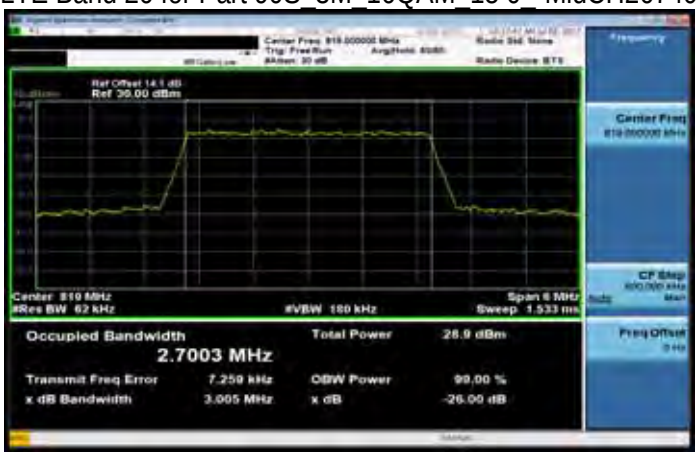


LTE Band 26 for Part 90S_3M_16QAM_15 0_LowCH26705

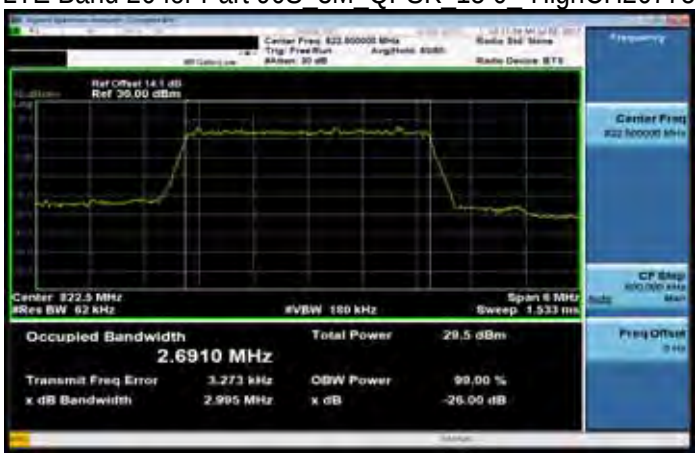
LTE Band 26 for Part 90S_3M_QPSK_15 0_MidCH26740



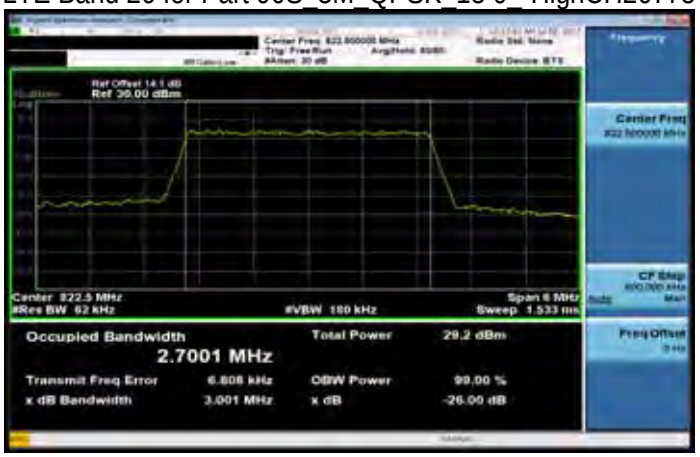
LTE Band 26 for Part 90S_3M_16QAM_15 0_MidCH26740



LTE Band 26 for Part 90S_3M_QPSK_15 0_HighCH26775



LTE Band 26 for Part 90S_3M_QPSK_15 0_HighCH26775



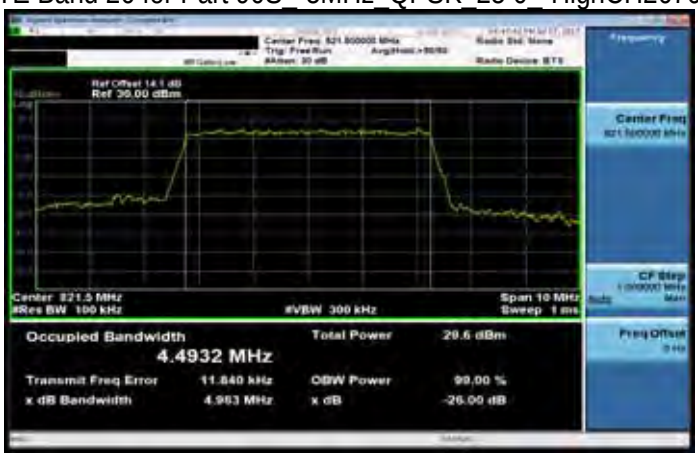
LTE Band 26 for Part 90S_5MHz_QPSK_25 0_LowCH26715

LTE Band 26 for Part 90S_5MHz_16QAM_25 0_LowCH26715

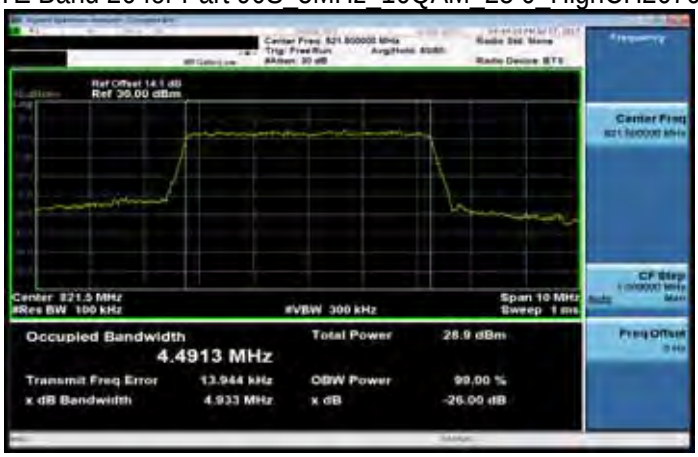
LTE Band 26 for Part 90S_5MHz_QPSK_25 0_MidCH26740

LTE Band 26 for Part 90S_5MHz_16QAM_25 0_MidCH26740

LTE Band 26 for Part 90S_5MHz_QPSK_25 0_HighCH26765

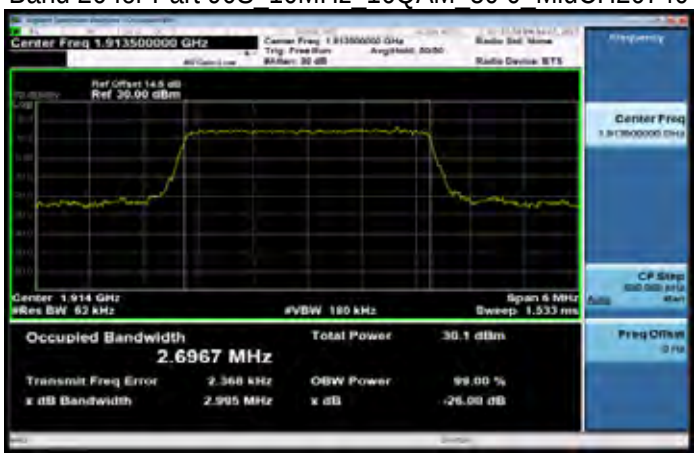


LTE Band 26 for Part 90S_5MHz_16QAM_25 0_HighCH26765

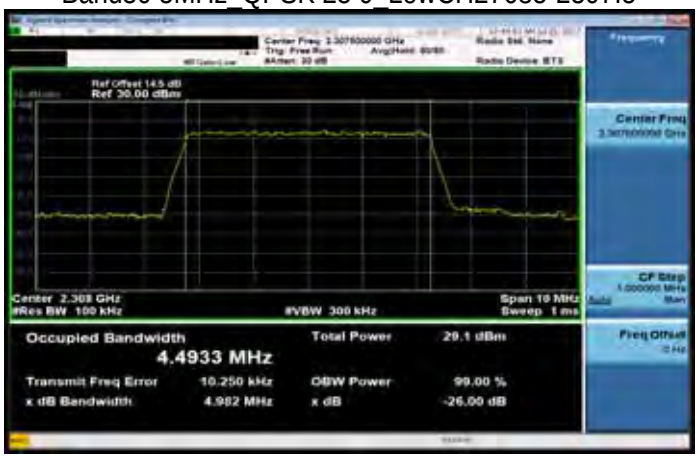


LTE Band 26 for Part 90S_10MHz_QPSK_50 0_ MidCH26740

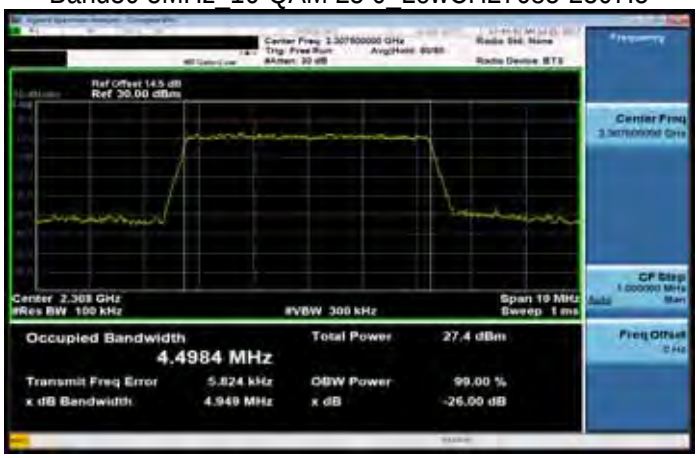
Band 26 for Part 90S_10MHz_16QAM_50 0_MidCH26740



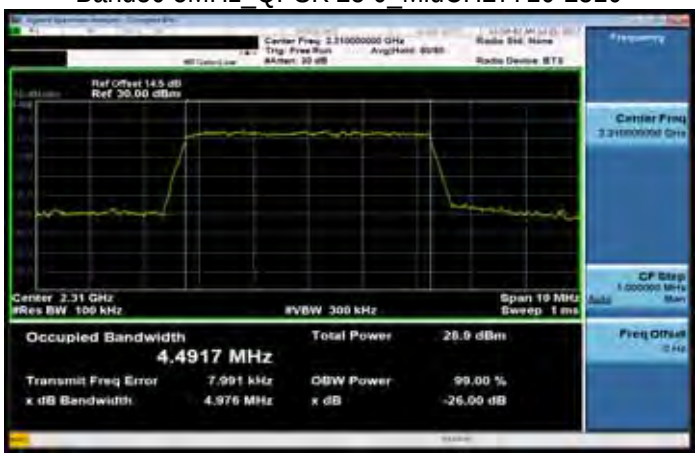
Band30 5MHz_QPSK 25 0_LowCH27685-2307.5



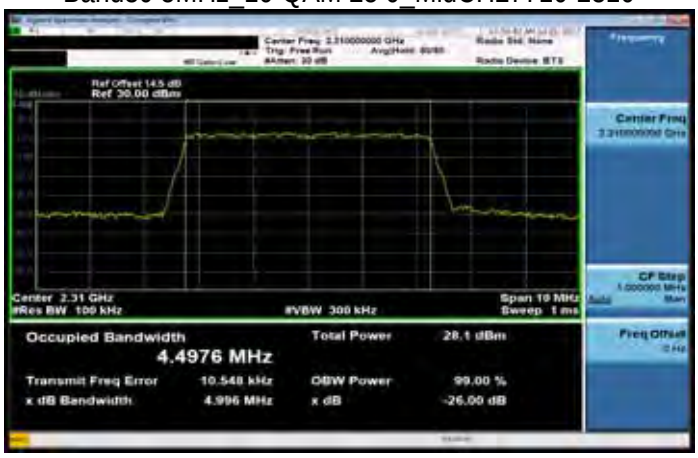
Band30 5MHz_16-QAM 25 0_LowCH27685-2307.5



Band30 5MHz_QPSK 25 0_MidCH27710-2310



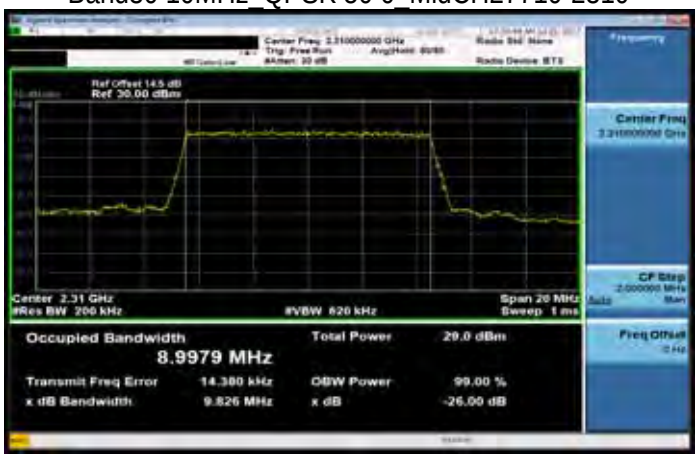
Band30 5MHz_16-QAM 25 0_MidCH27710-2310



Band30 5MHz_QPSK 25 0_HighCH27735-2312.5

Band30 5MHz_16-QAM 25 0__HighCH27735-2312.5

Band30 10MHz_QPSK 50 0_MidCH27710-2310



Band30 10MHz_16-QAM 50 0_MidCH27710-2310

Band41 5MHz_QPSK_25 0_ LowCH39675

Band41 5MHz_16-QAM_25 0_ LowCH39675

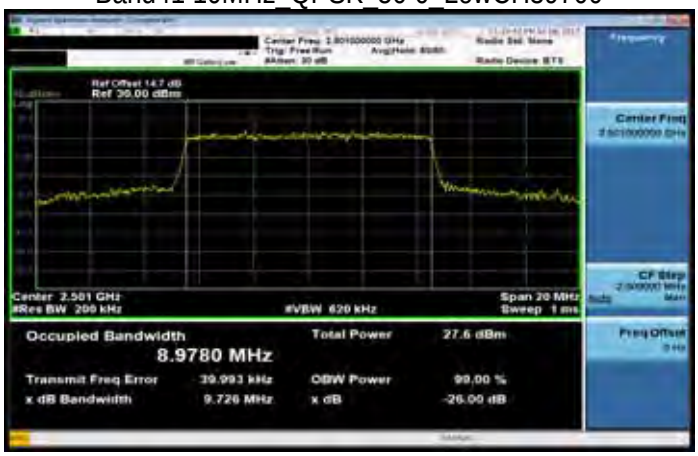
Band41 5MHz_QPSK_25 0_ MidCH40620

Band41 5MHz_16-QAM_25 0_ MidCH40620

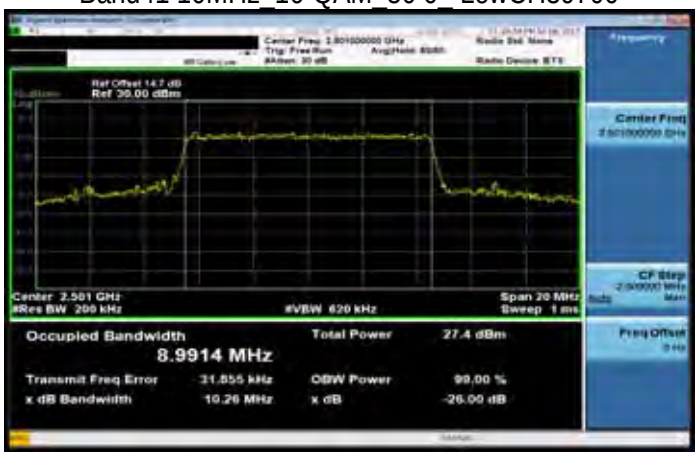
Band41 5MHz_QPSK_25 0_ HighCH41565

Band41 5MHz_16-QAM_25 0_ HighCH41565

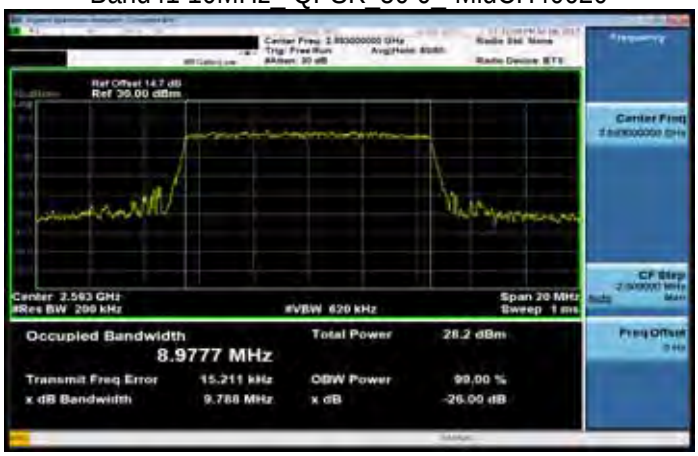
Band41 10MHz_QPSK_50 0_LowCH39700



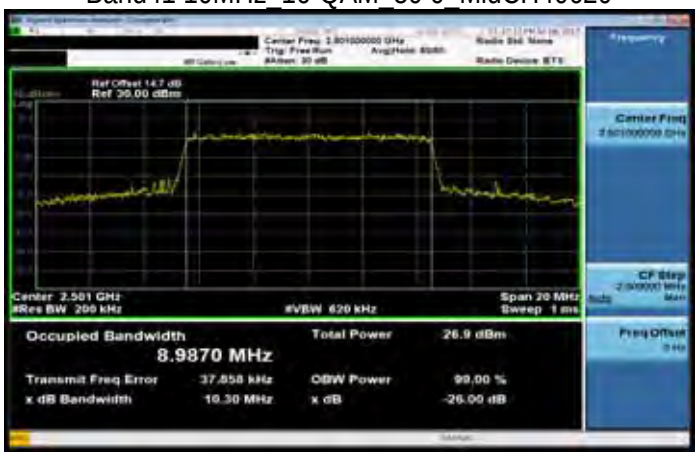
Band41 10MHz_16-QAM_50 0_LowCH39700



Band41 10MHz_QPSK_50 0_MidCH40620

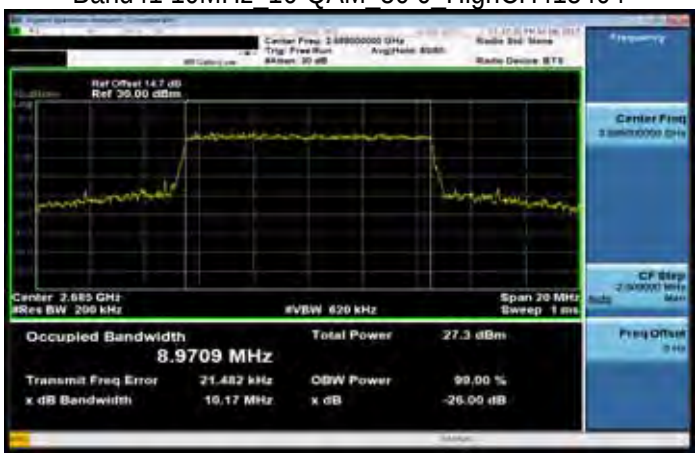


Band41 10MHz_16-QAM_50 0_MidCH40620



Band41 10MHz_QPSK_50 0_HighCH41540

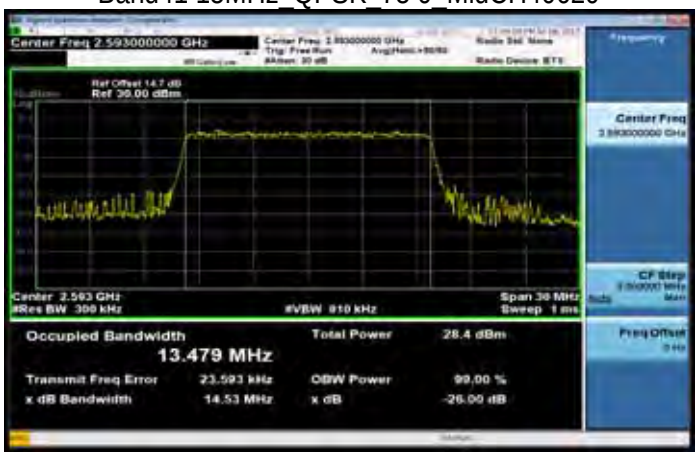
Band41 10MHz_16-QAM_50 0_HighCH415404



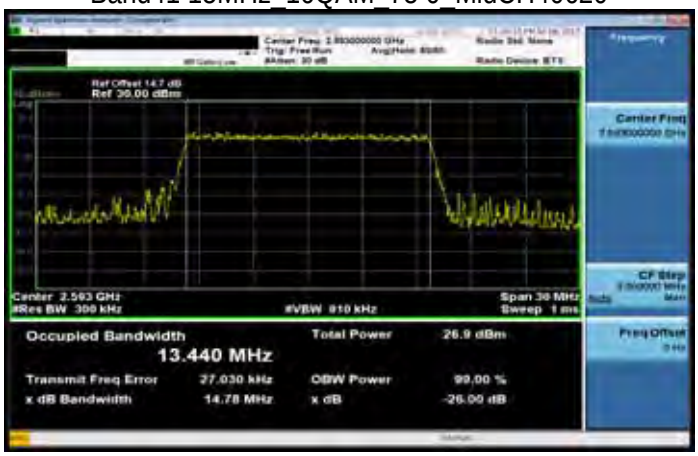
Band41 15MHz_QPSK_75 0_LowCH39725

Band41 15MHz_16QAM_75 0_LowCH39725

Band41 15MHz_QPSK_75 0_MidCH40620

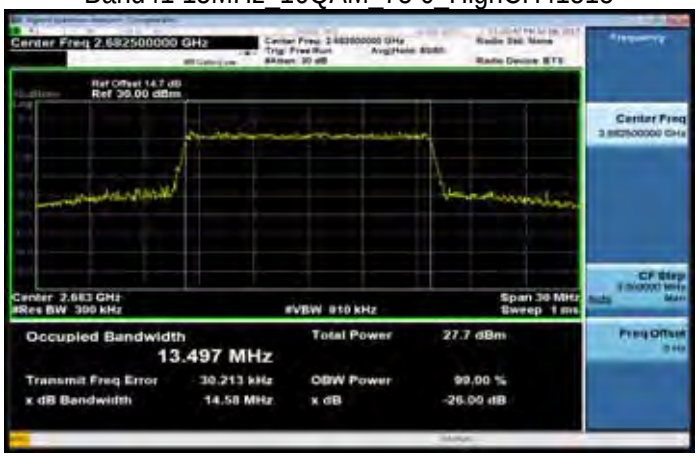


Band41 15MHz_16QAM_75 0_MidCH40620

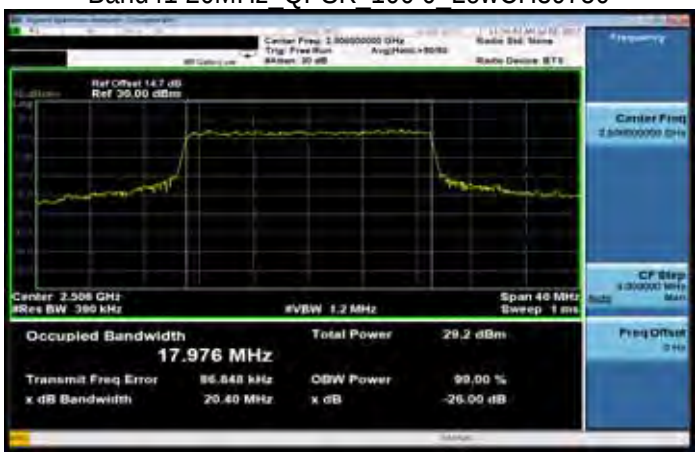


Band41 15MHz_QPSK_75 0_HighCH41515

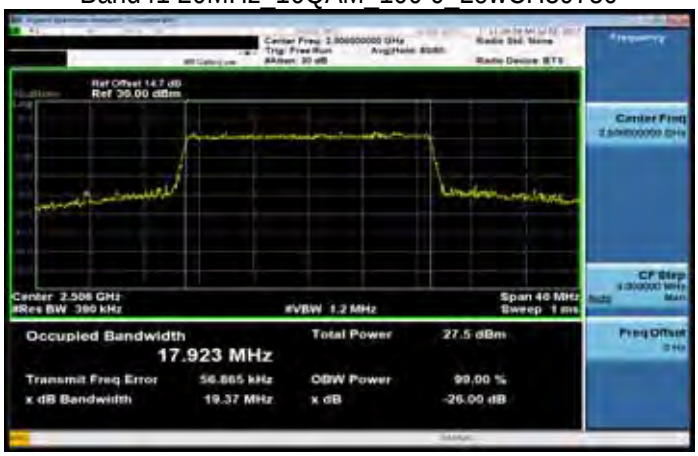
Band41 15MHz_16QAM_75 0_HighCH41515



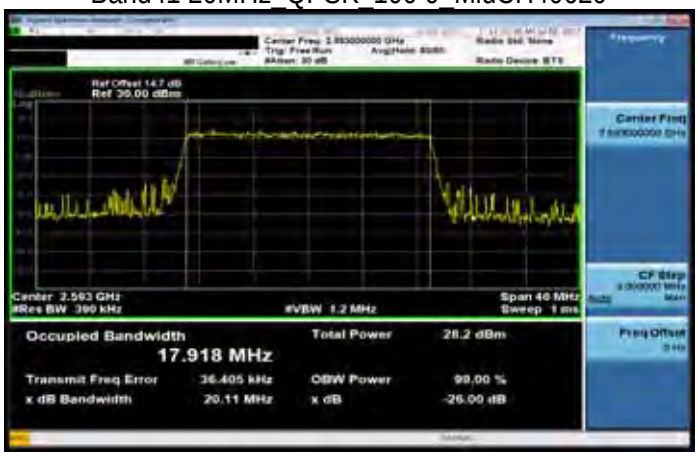
Band41 20MHz_QPSK_100 0_LowCH39750



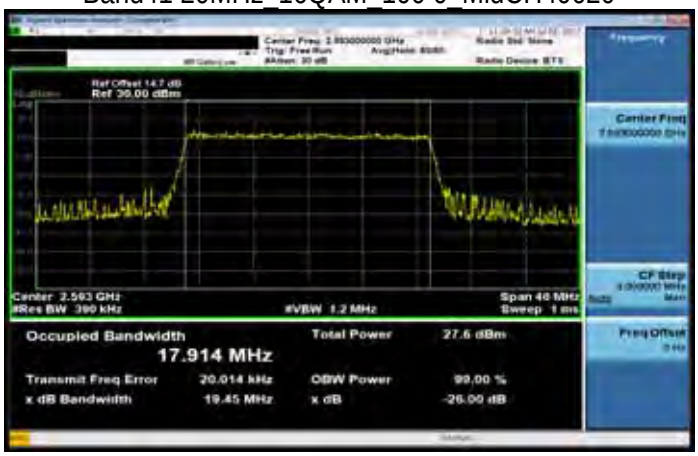
Band41 20MHz_16QAM_100 0_LowCH39750



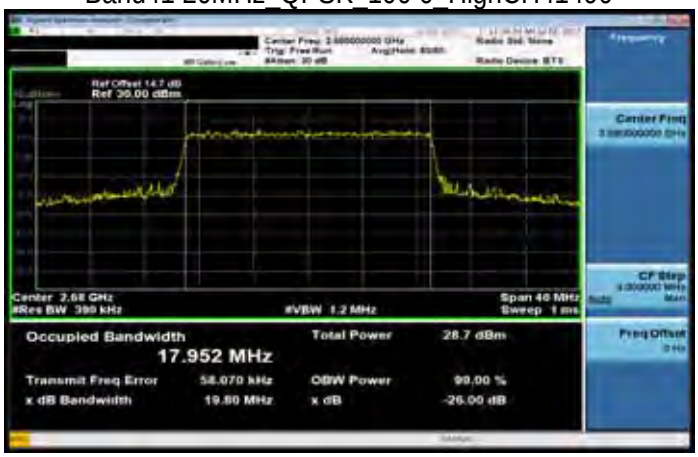
Band41 20MHz_QPSK_100 0_MidCH40620



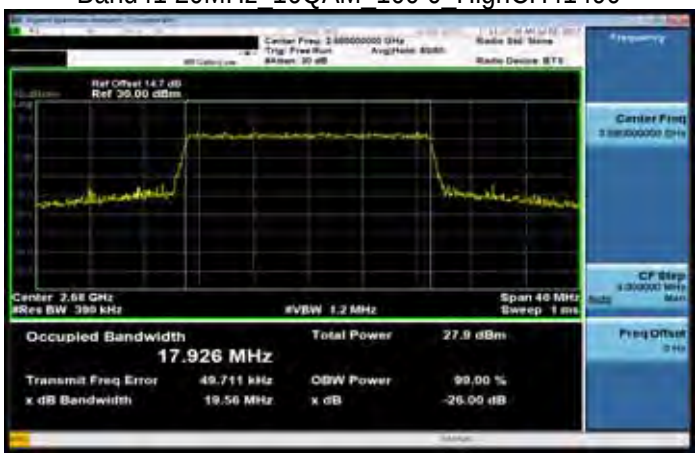
Band41 20MHz_16QAM_100 0_MidCH40620



Band41 20MHz_QPSK_100 0_HighCH41490



Band41 20MHz_16QAM_100 0_HighCH41490



9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h),Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §27.53(c)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

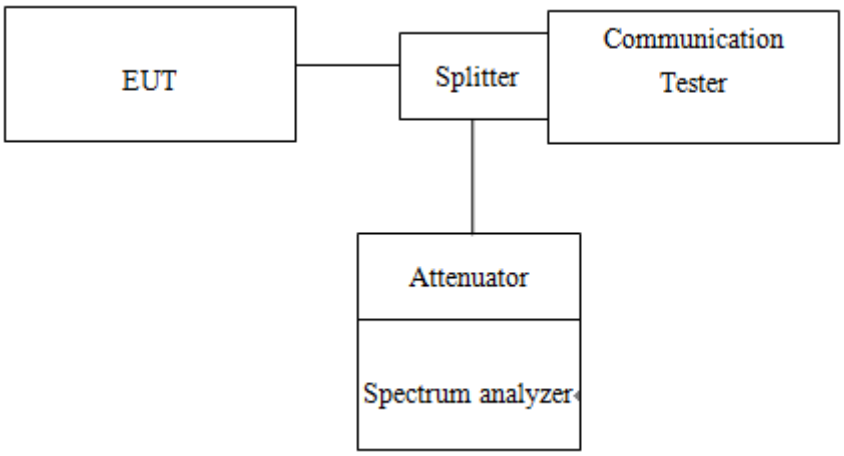
Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

§90.691 Emission mask requirements for EA-based systems.
(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

9.5. Measurement Result:

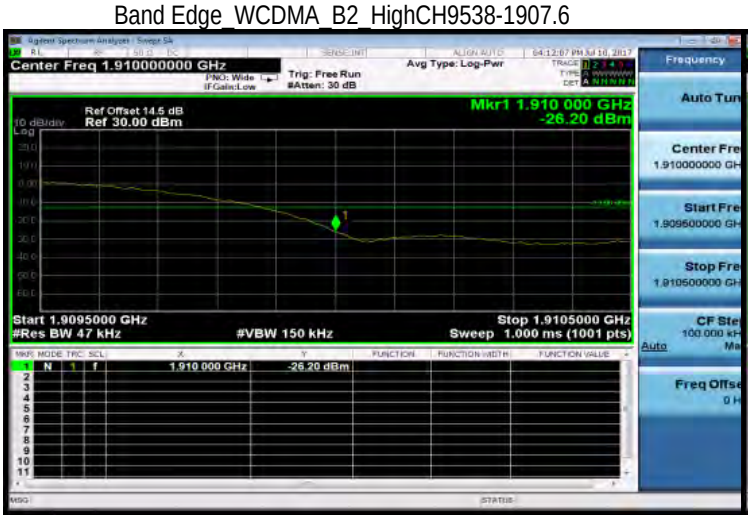
Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

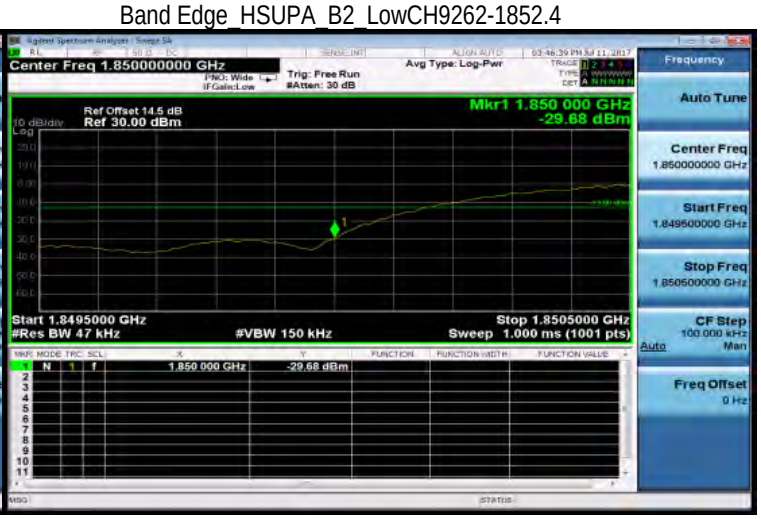
Band Edge_WCDMA_B2_LowCH9262-1852.4

Band Edge_HSDPA_B2_HighCH9538-1907.6

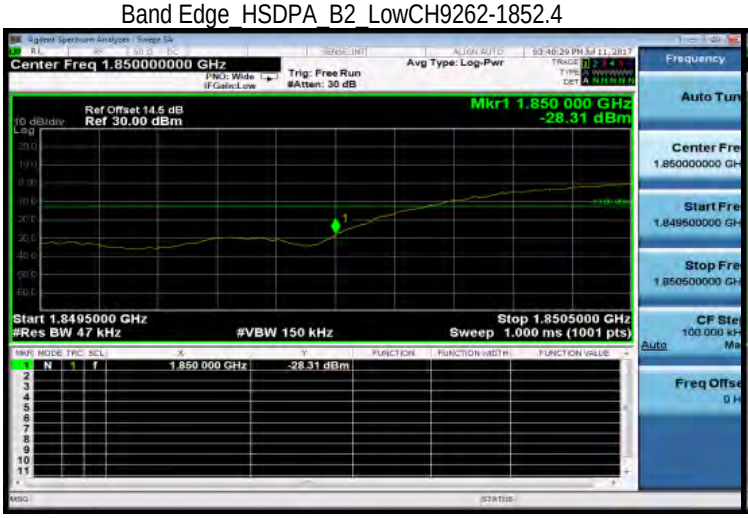
Band Edge_WCDMA_B2_HighCH9538-1907.6



Band Edge_HSUPA_B2_LowCH9262-1852.4



Band Edge_HSDPA_B2_LowCH9262-1852.4

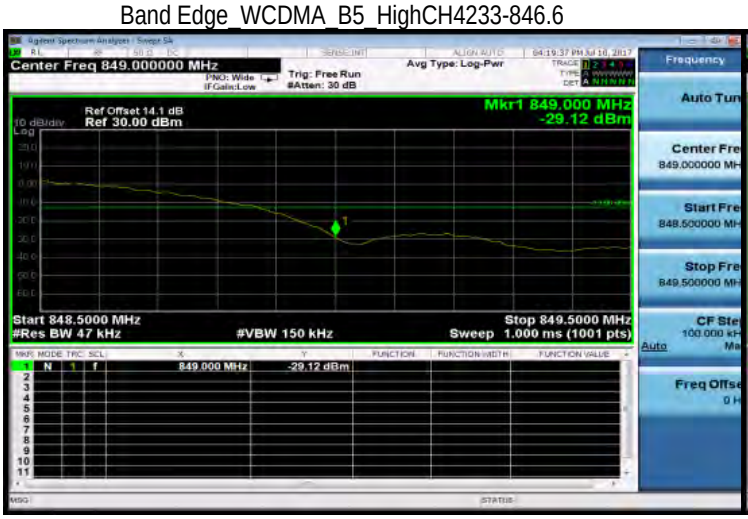


Band Edge_HSUPA_B2_HighCH9538-1907.6

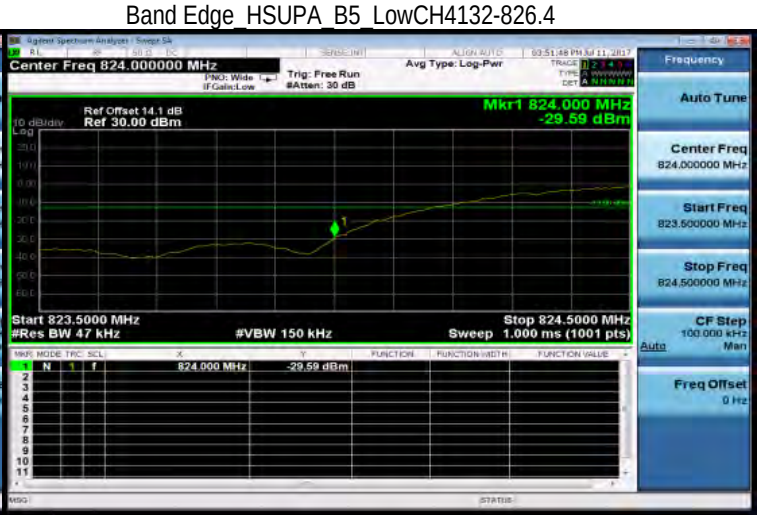
Band Edge_WCDMA_B5_LowCH4132-826.4

Band Edge_HSDPA_B5_HighCH4233-846.6

Band Edge_WCDMA_B5_HighCH4233-846.6



Band Edge_HSUPA_B5_LowCH4132-826.4



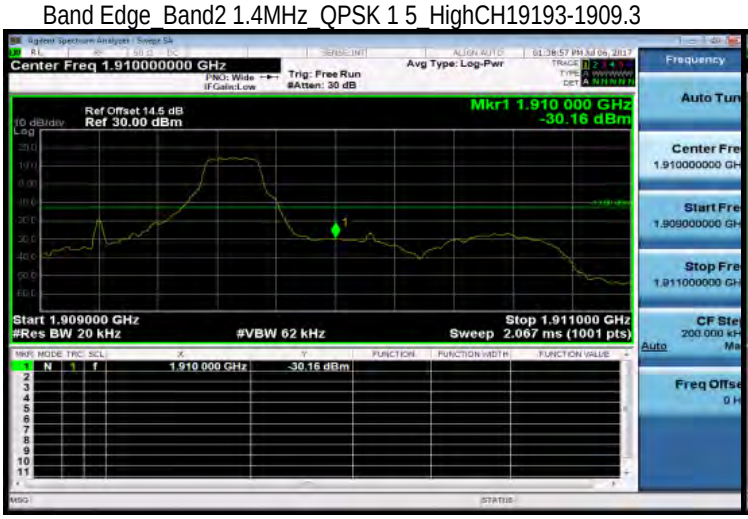
Band Edge_HSDPA_B5_LowCH4132-826.4

Band Edge_HSUPA_B5_HighCH4233-846.6

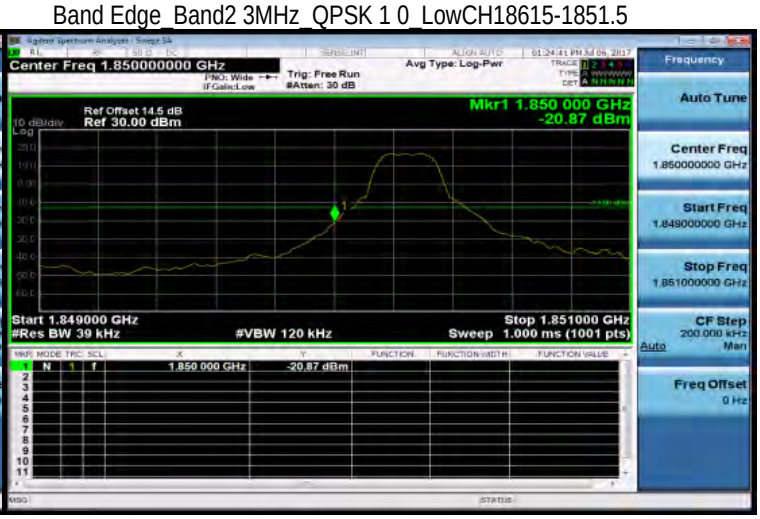
Band Edge_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7

Band Edge_Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3

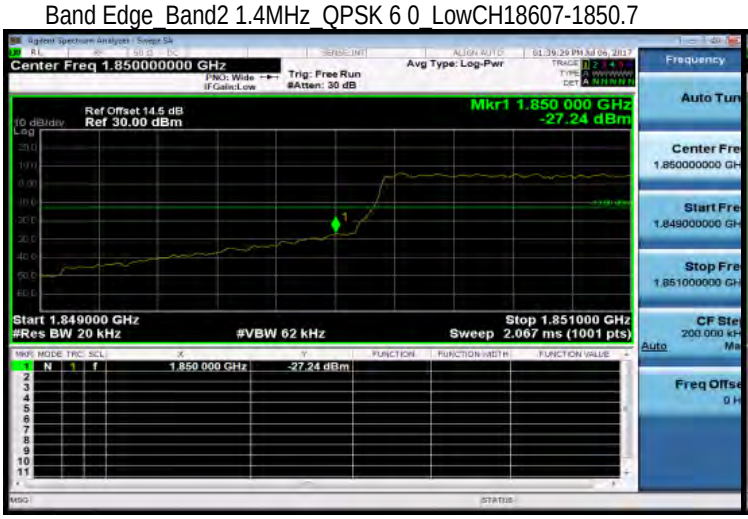
Band Edge_Band2 1.4MHz_QPSK 1 5_HighCH19193-1909.3



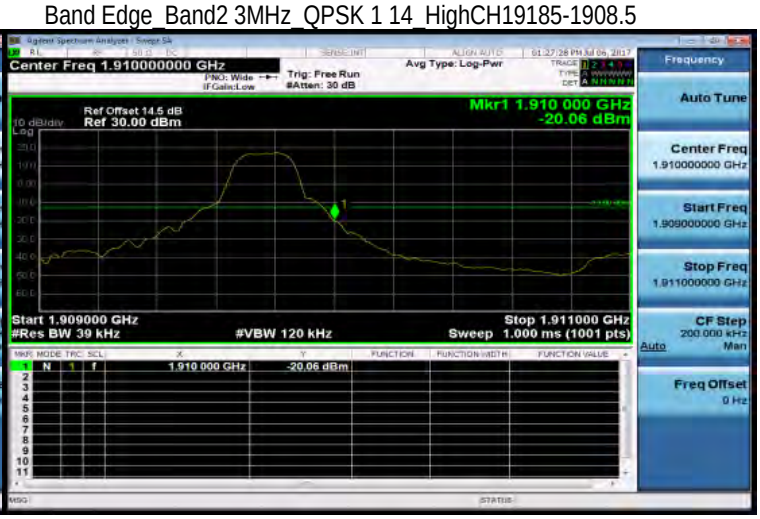
Band Edge_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



Band Edge_Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7



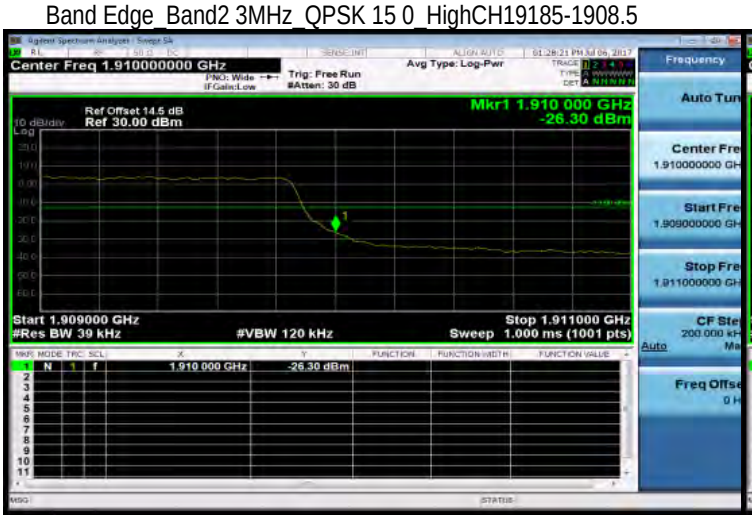
Band Edge_Band2 3MHz_QPSK 1 14_HighCH19185-1908.5



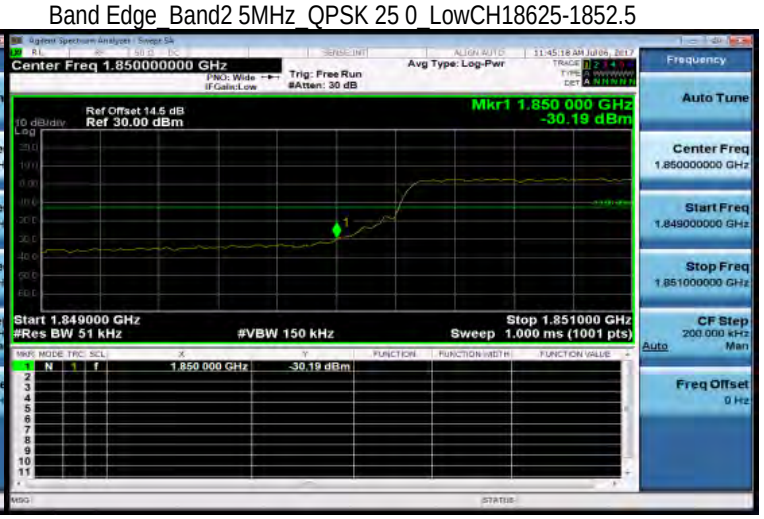
Band Edge_Band2 3MHz_QPSK 15 0_LowCH18615-1851.5

Band Edge_Band2 5MHz_QPSK 1 24_HighCH19175-1907.5

Band Edge_Band2 3MHz_QPSK 15 0_HighCH19185-1908.5



Band Edge_Band2 5MHz_QPSK 25 0_LowCH18625-1852.5



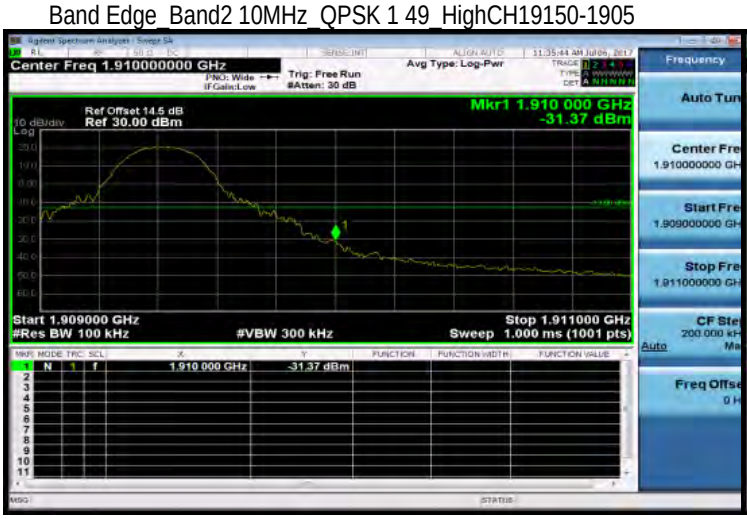
Band Edge_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

Band Edge_Band2 5MHz_QPSK 25 0_HighCH19175-1907.5

Band Edge_Band2 10MHz_QPSK 1 0_LowCH18650-1855

Band Edge_Band2 10MHz_QPSK 50 0_HighCH19150-1905

Band Edge_Band2 10MHz_QPSK 1 49_HighCH19150-1905



Band Edge_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5

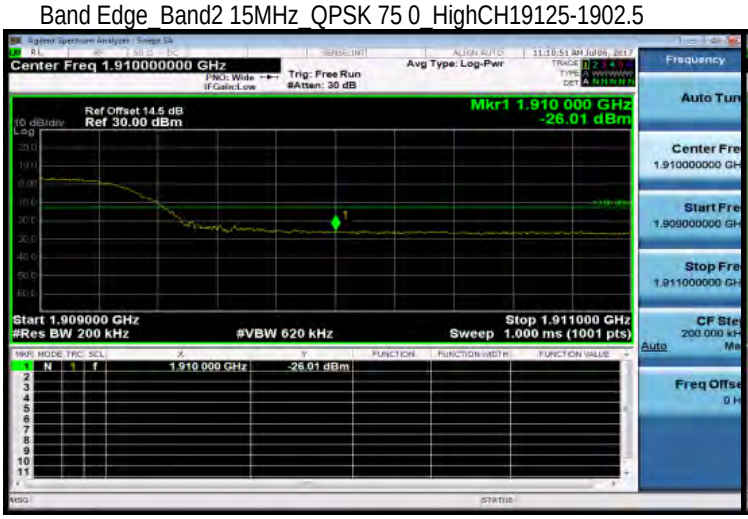
Band Edge_Band2 10MHz_QPSK 50 0_LowCH18650-1855

Band Edge_Band2 15MHz_QPSK 1 74_HighCH19125-1902.5

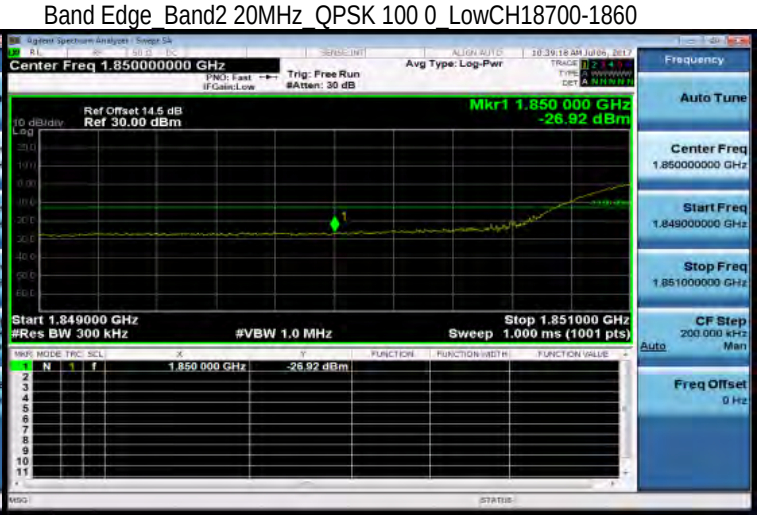
Band Edge_Band2 15MHz_QPSK 75 0_LowCH18675-1857.5

Band Edge_Band2 20MHz_QPSK 1 99_HighCH19100-1900

Band Edge_Band2 15MHz_QPSK 75 0_HighCH19125-1902.5

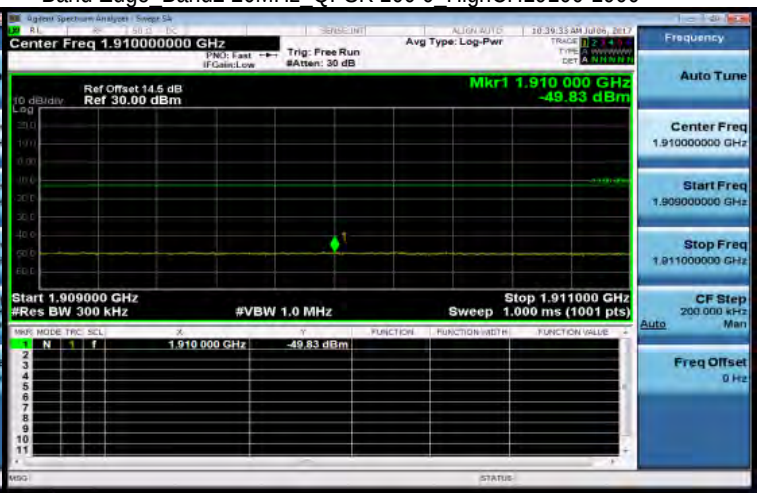


Band Edge_Band2 20MHz_QPSK 100 0_LowCH18700-1860



Band Edge_Band2 20MHz_QPSK 1 0_LowCH18700-1860

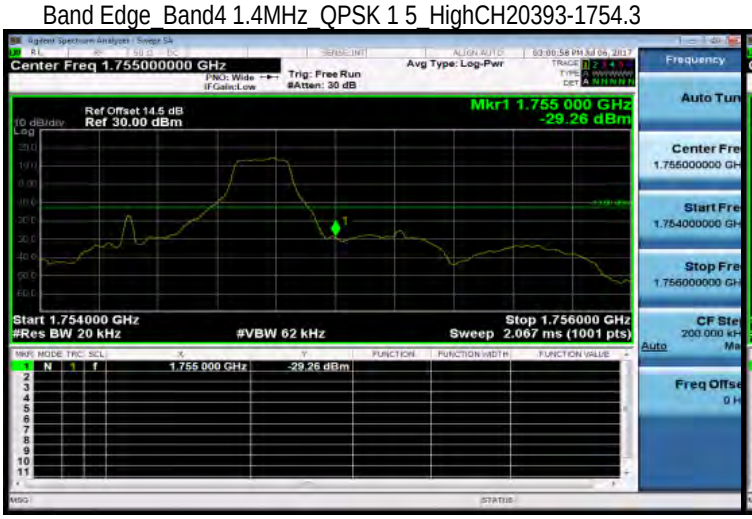
Band Edge_Band2 20MHz_QPSK 100 0_HighCH19100-1900



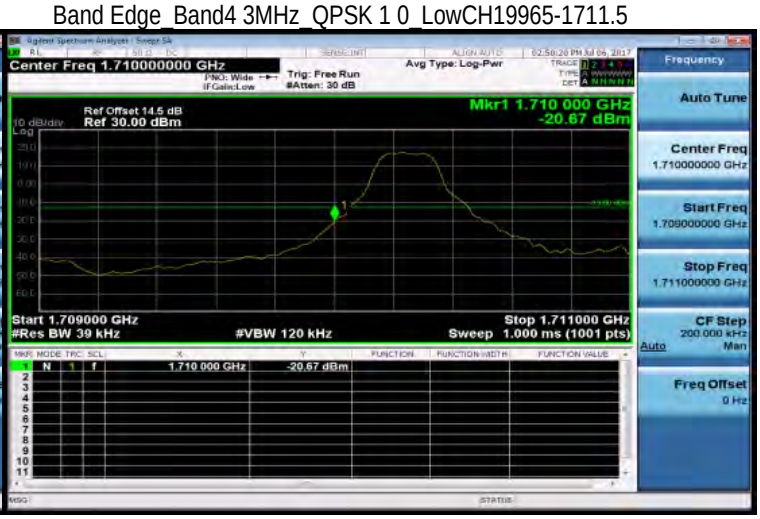
Band Edge_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7

Band Edge_Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3

Band Edge_Band4 1.4MHz_QPSK 1 5_HighCH20393-1754.3



Band Edge_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5



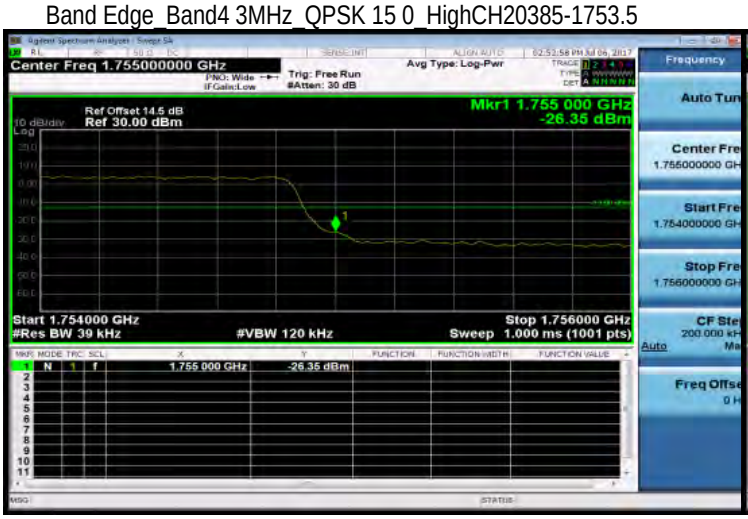
Band Edge_Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7

Band Edge_Band4 3MHz_QPSK 1 14_HighCH20385-1753.5

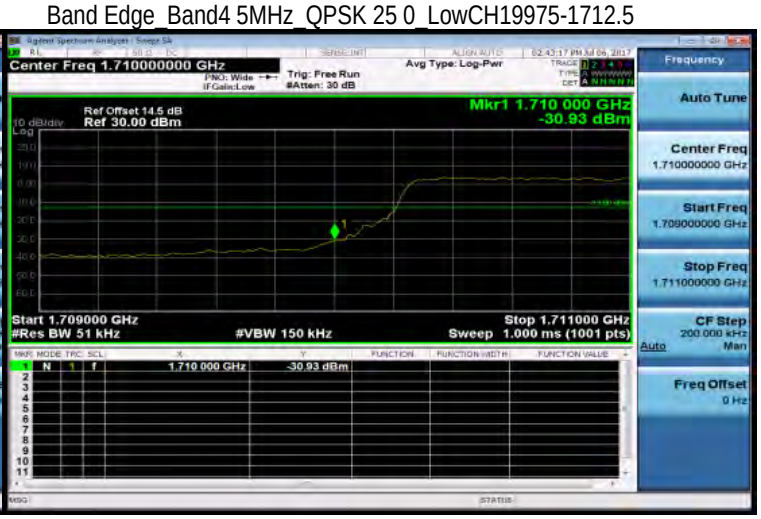
Band Edge_Band4 3MHz_QPSK 15 0_LowCH19965-1711.5

Band Edge_Band4 5MHz_QPSK 1 24_HighCH20375-1752.5

Band Edge_Band4 3MHz_QPSK 15 0_HighCH20385-1753.5



Band Edge_Band4 5MHz_QPSK 25 0_LowCH19975-1712.5



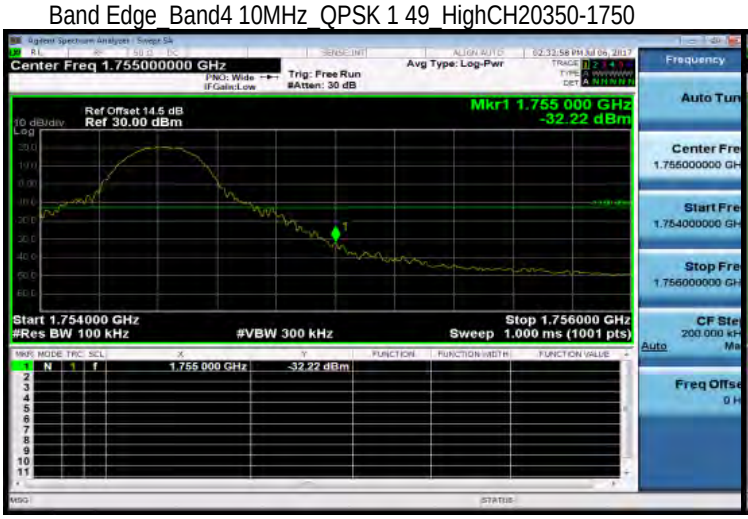
Band Edge_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

Band Edge_Band4 5MHz_QPSK 25 0_HighCH20375-1752.5

Band Edge_Band4 10MHz_QPSK 1 0_LowCH20000-1715

Band Edge_Band4 10MHz_QPSK 50 0_HighCH20350-1750

Band Edge_Band4 10MHz_QPSK 1 49_HighCH20350-1750



Band Edge_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5

Band Edge_Band4 10MHz_QPSK 50 0_LowCH20000-1715

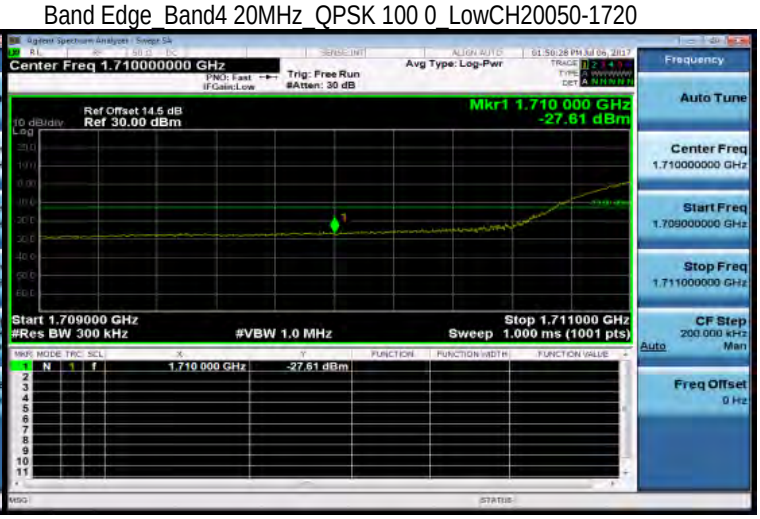
Band Edge_Band4 15MHz_QPSK 1 74_HighCH20325-1747.5

Band Edge_Band4 15MHz_QPSK 75 0_LowCH20025-1717.5

Band Edge_Band4 20MHz_QPSK 1 99_HighCH20300-1745

Band Edge_Band4 15MHz_QPSK 75 0_HighCH20325-1747.5

Band Edge_Band4 20MHz_QPSK 100 0_LowCH20050-1720



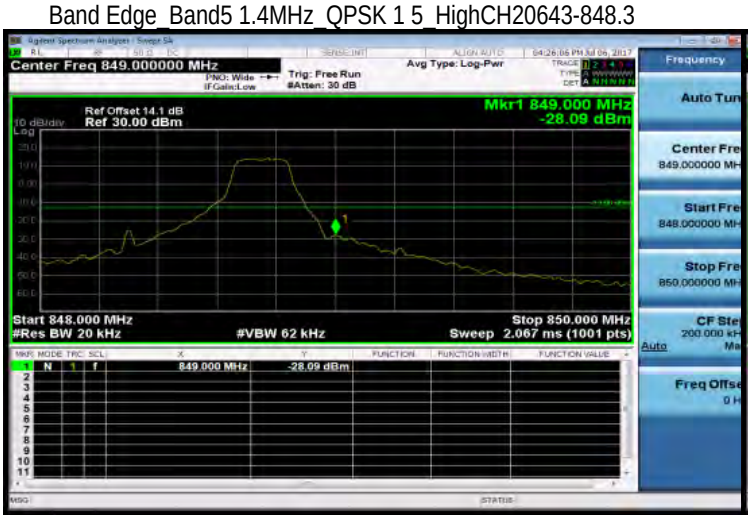
Band Edge_Band4 20MHz_QPSK 1 0_LowCH20050-1720

Band Edge_Band4 20MHz_QPSK 100 0_HighCH20300-1745

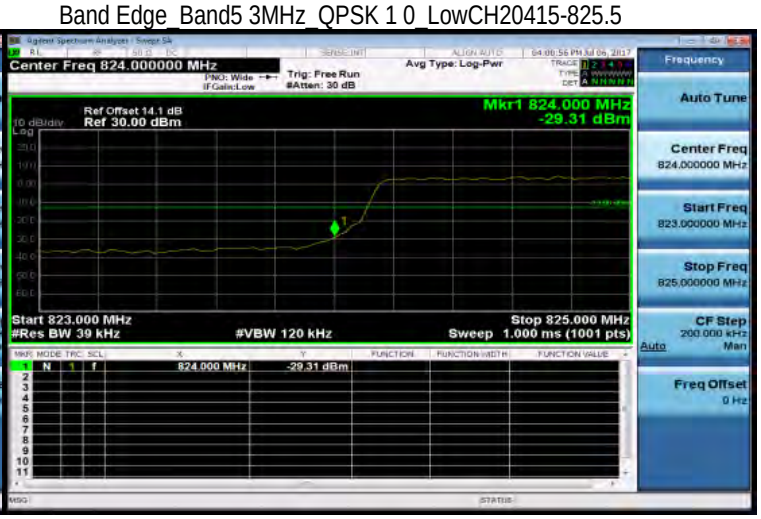
Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7

Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3

Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3



Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



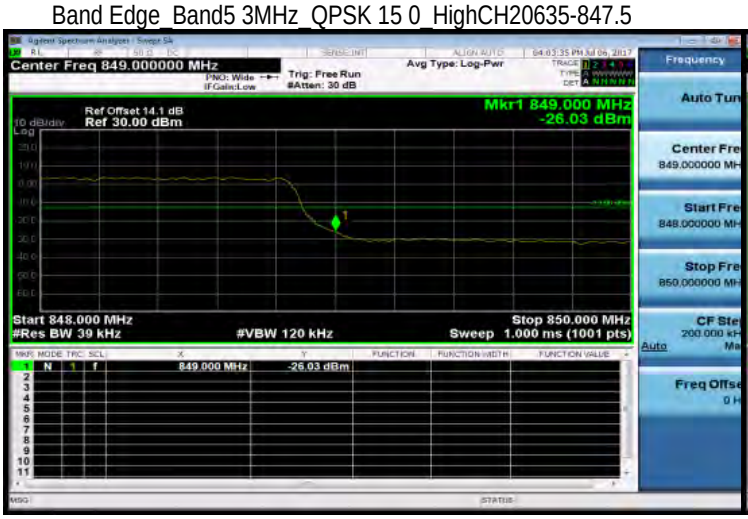
Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7

Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5

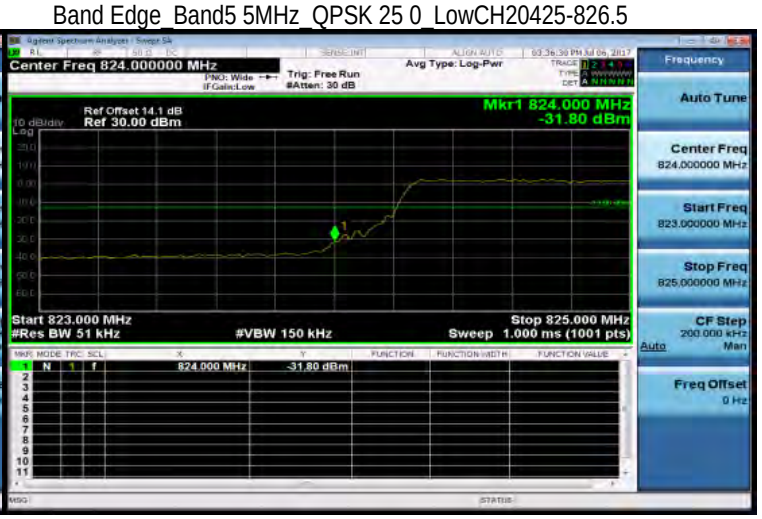
Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5

Band Edge_Band5 5MHz_QPSK 1 24_HighCH20625-846.5

Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5



Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5



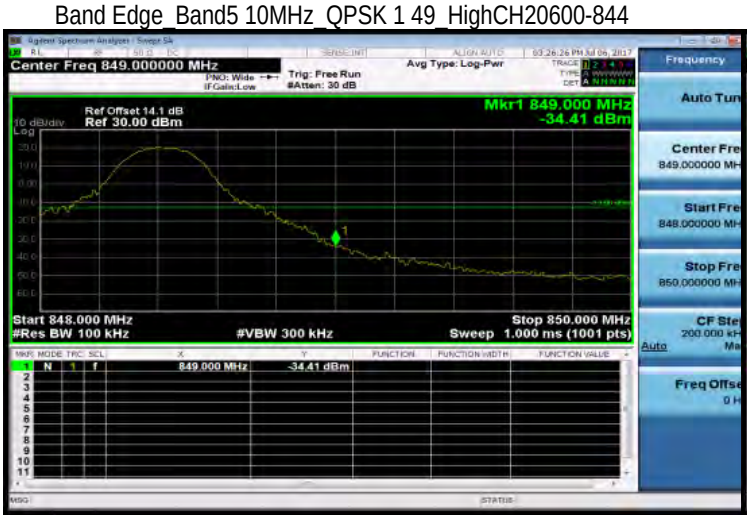
Band Edge_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 25 0_HighCH20625-846.5

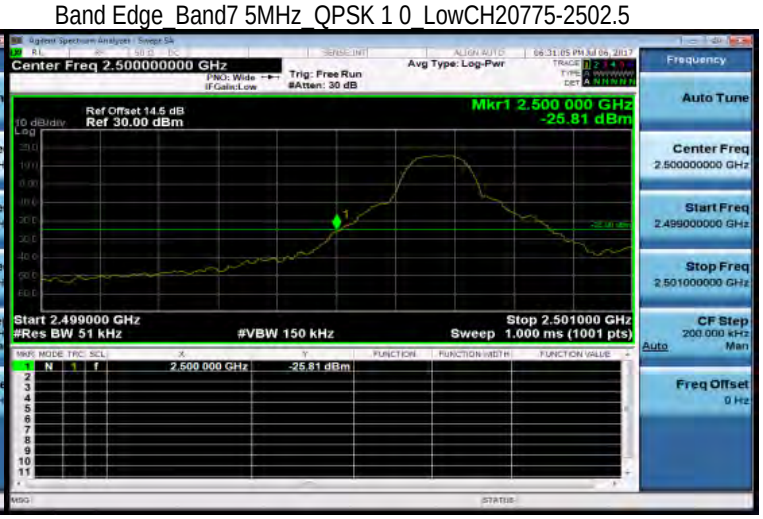
Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829

Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844

Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844



Band Edge_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829

Band Edge_Band7 5MHz_QPSK 1 24_HighCH21425-2567.5