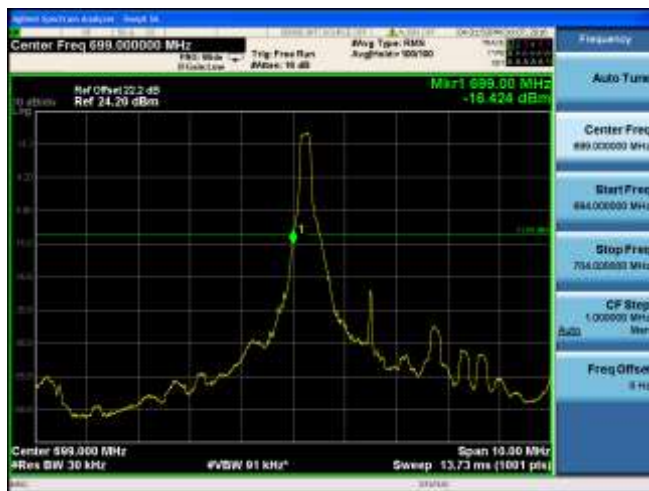
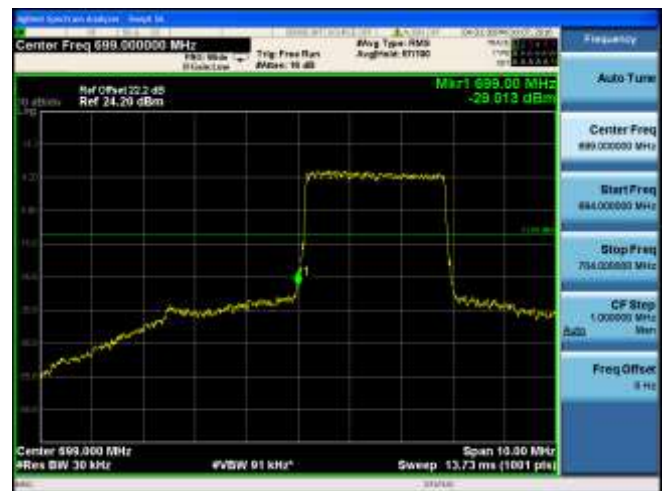
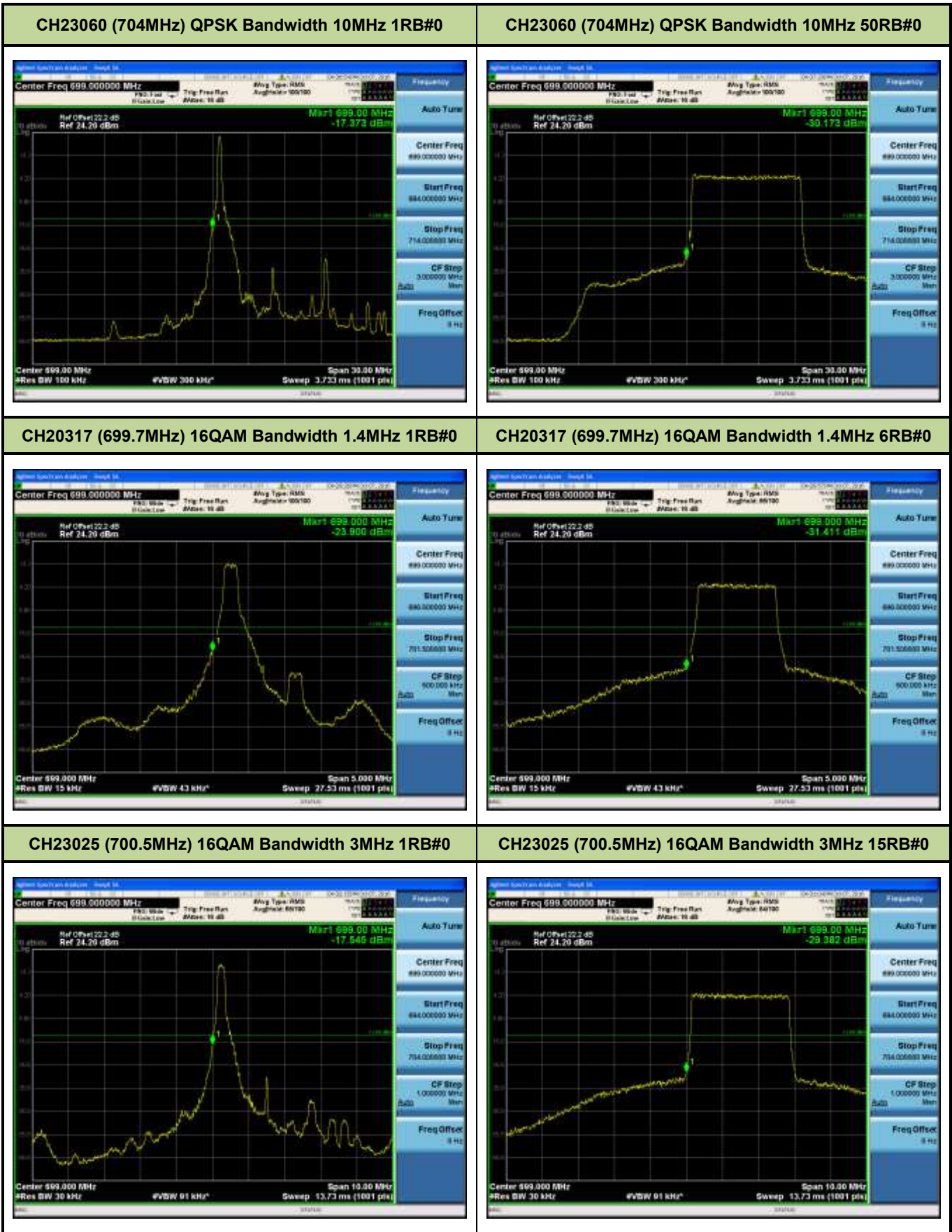


LTE Band 12 (Low Channel)
CH20317 (699.7MHz) QPSK Bandwidth 1.4MHz 1RB#0

CH20317 (699.7MHz) QPSK Bandwidth 1.4MHz 6RB#0

CH23025 (700.5MHz) QPSK Bandwidth 3MHz 1RB#0

CH23025 (700.5MHz) QPSK Bandwidth 3MHz 15RB#0

CH23035 (701.5MHz) QPSK Bandwidth 5MHz 1RB#0

CH23035 (701.5MHz) QPSK Bandwidth 5MHz 25RB#0

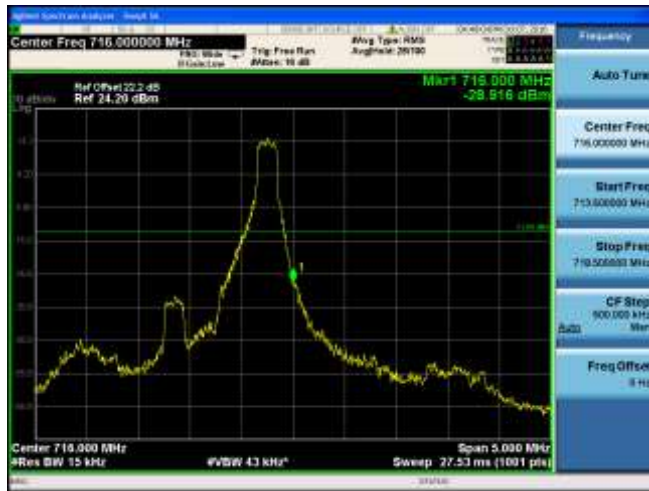
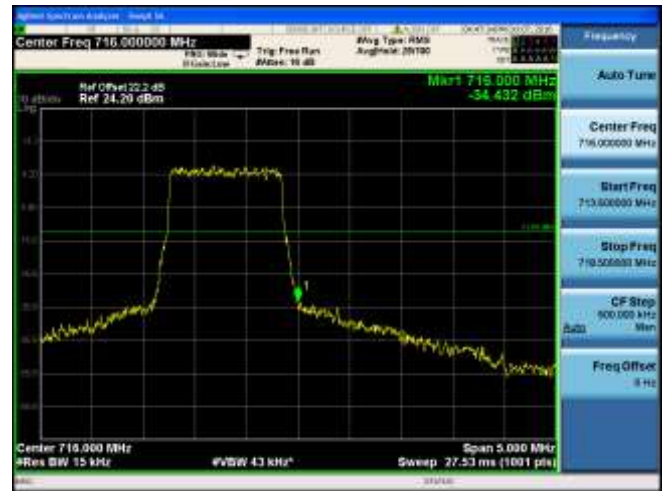



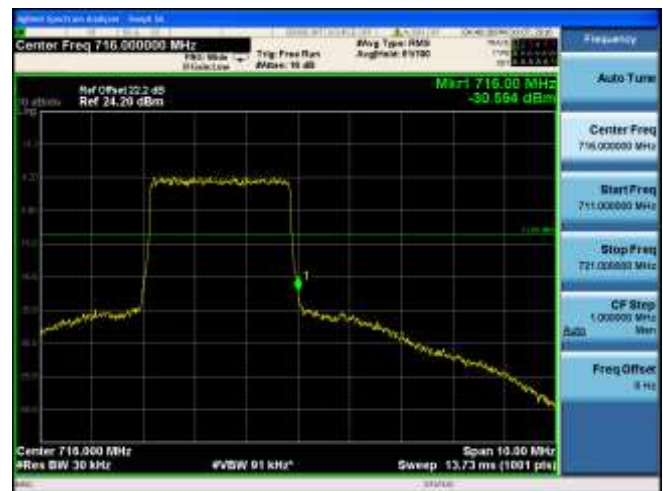
CH23035 (701.5MHz) 16QAM Bandwidth 5MHz 1RB#0

CH23035 (701.5MHz) 16QAM Bandwidth 5MHz 25RB#0

CH23060 (704MHz) 16QAM Bandwidth 10MHz 1RB#0

CH23060 (704MHz) 16QAM Bandwidth 10MHz 50RB#0

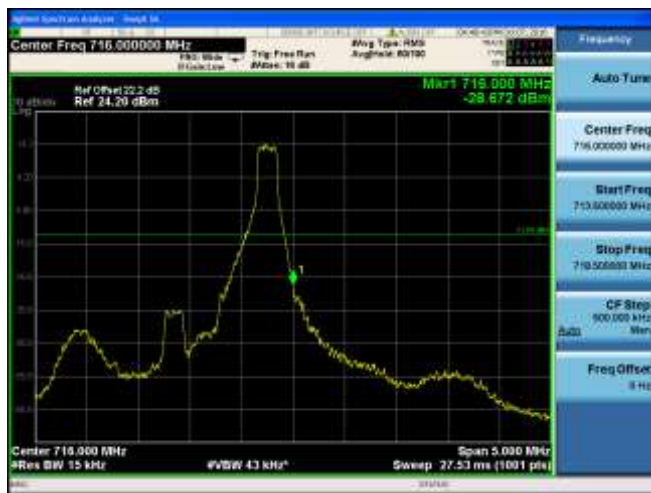
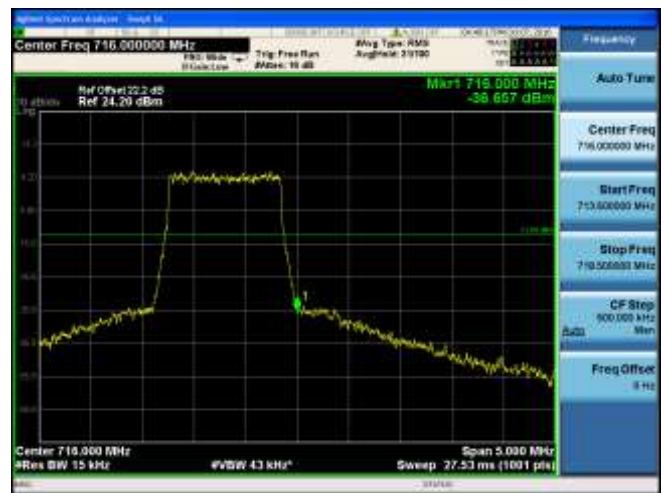

LTE Band 12 (High Channel)
CH23173 (715.3MHz) QPSK Bandwidth 1.4MHz 1RB#5

CH23173 (715.3MHz) QPSK Bandwidth 1.4MHz 6RB#0

CH23165 (714.5MHz) QPSK Bandwidth 3MHz 1RB#14

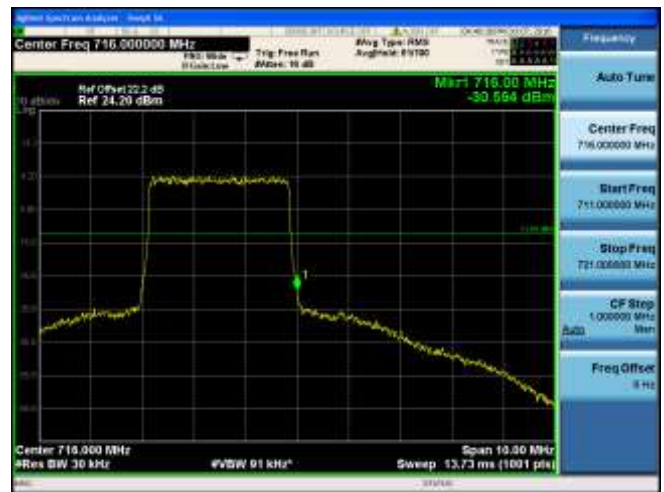
CH23165 (714.5MHz) QPSK Bandwidth 3MHz 15RB#0

CH23155 (713.5MHz) QPSK Bandwidth 5MHz 1RB#24

CH23155 (713.5MHz) QPSK Bandwidth 5MHz 25RB#0


CH23130 (711MHz) QPSK Bandwidth 10MHz 1RB#49

CH23130 (711MHz) QPSK Bandwidth 10MHz 50RB#0

CH23173 (715.3MHz) 16QAM Bandwidth 1.4MHz 1RB#5

CH23173 (715.3MHz) 16QAM Bandwidth 1.4MHz 6RB#0

CH23165 (714.5MHz) 16QAM Bandwidth 3MHz 1RB#14

CH23165 (714.5MHz) 16QAM Bandwidth 3MHz 15RB#0


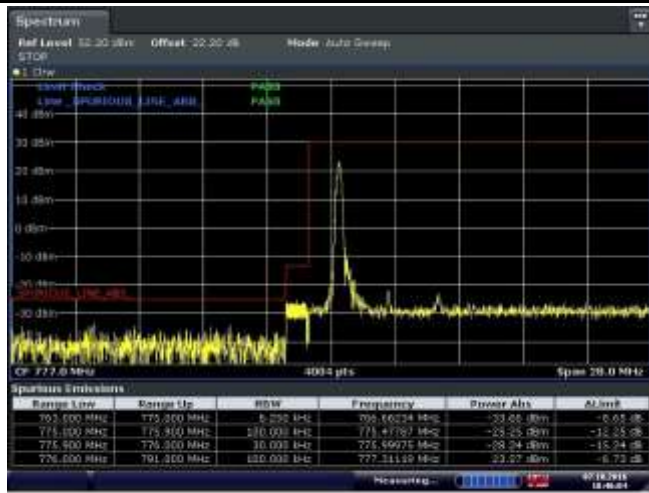
CH23155 (713.5MHz) 16QAM Bandwidth 5MHz 1RB#24

CH23155 (713.5MHz) 16QAM Bandwidth 5MHz 25RB#0

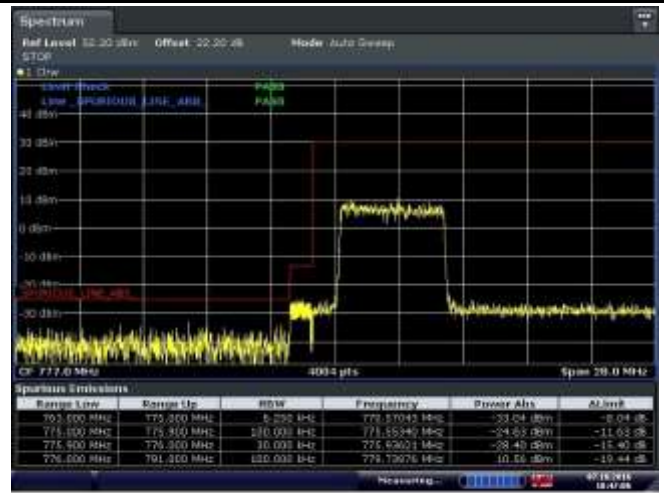
CH23130 (711MHz) 16QAM Bandwidth 10MHz 1RB#49

CH23130 (711MHz) 16QAM Bandwidth 10MHz 50RB#0

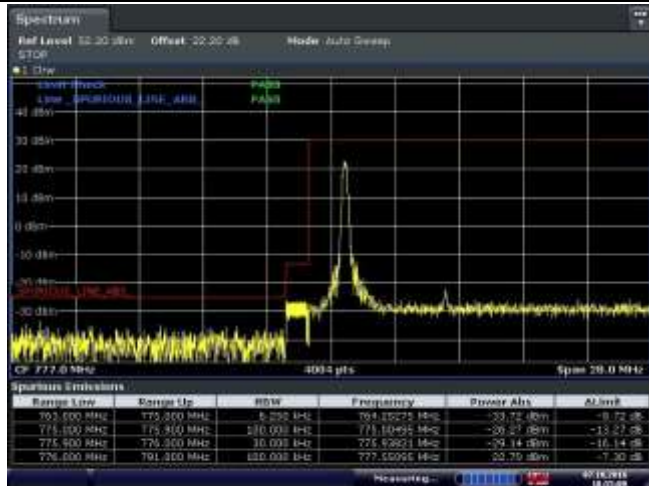

LTE Band 13 (Low Channel)

CH23205 (779.5MHz) QPSK Bandwidth 5MHz 1RB#0


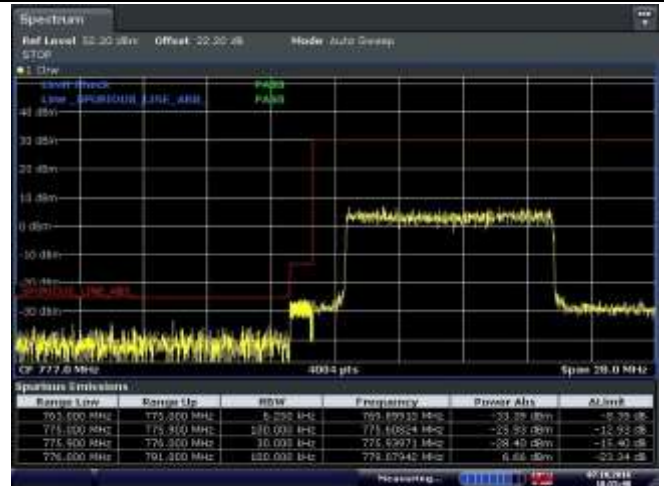
Date: 7.OCT.2016 18:49:04

CH23205 (779.5MHz) QPSK Bandwidth 5MHz 25RB#0


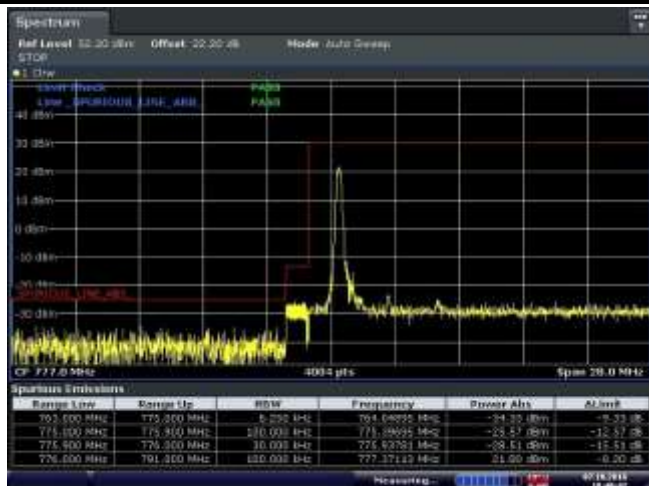
Date: 7.OCT.2016 18:47:07

CH23230 (782MHz) QPSK Bandwidth 10MHz 1RB#0


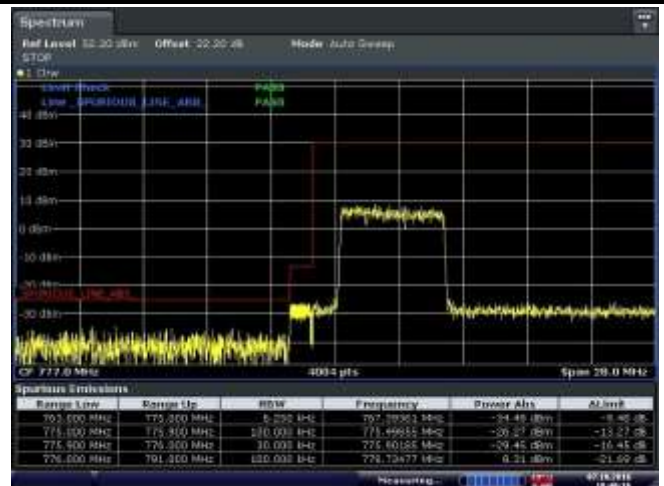
Date: 7.OCT.2016 18:55:01

CH23230 (782MHz) QPSK Bandwidth 10MHz 50RB#0


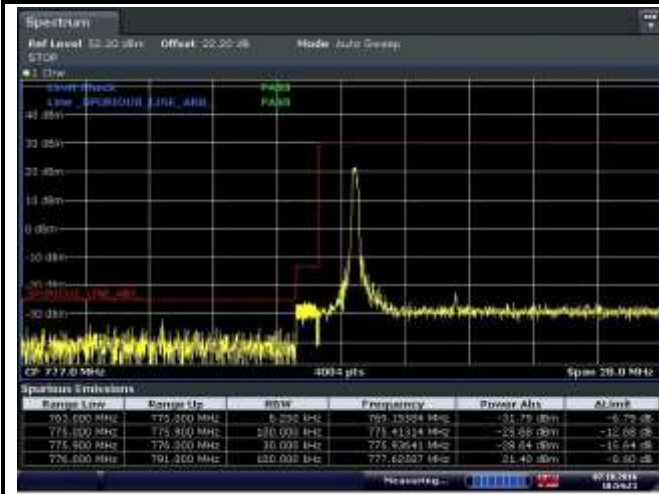
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CH23205 (779.5MHz) 16QAM Bandwidth 5MHz 1RB#0


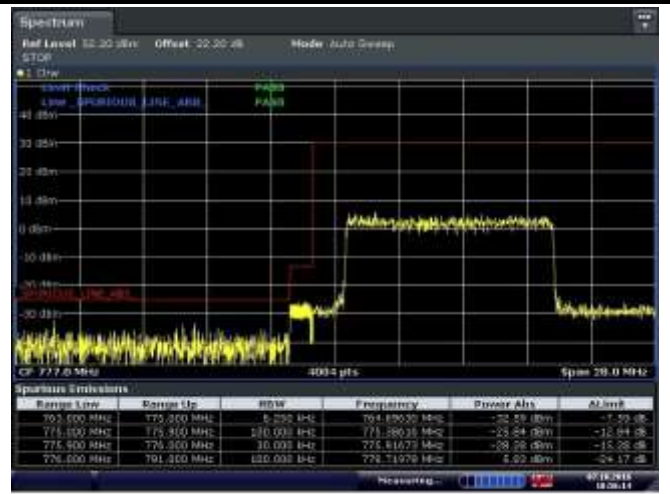
Date: 7.OCT.2016 18:49:47

CH23205 (779.5MHz) 16QAM Bandwidth 5MHz 25RB#0


Date: 7.OCT.2016 18:49:16

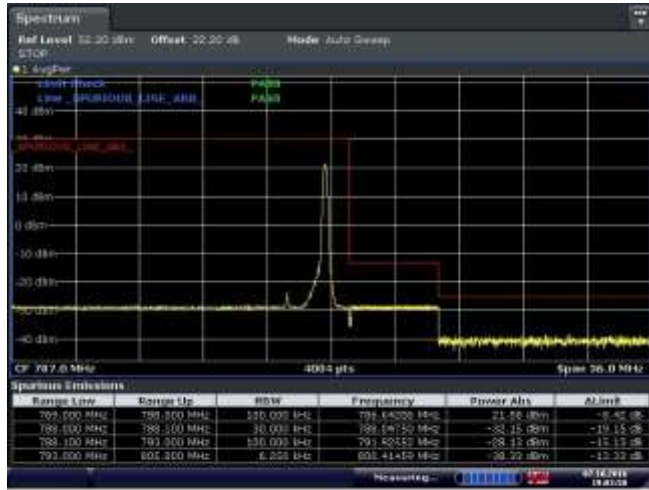
CH23230 (782MHz) 16QAM Bandwidth 10MHz 1RB#0


Date: 7.OCT.2016 18:54:22

CH23230 (782MHz) 16QAM Bandwidth 10MHz 50RB#0


Date: 7.OCT.2016 18:58:15

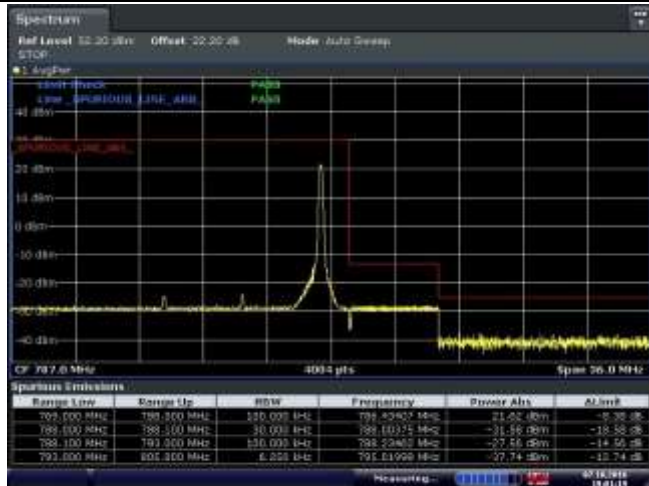
LTE Band 13 (High Channel)

CH23255 (784.5MHz) QPSK Bandwidth 5MHz 1RB#24


Date: 7.OCT.2016 19:03:50

CH23255 (784.5MHz) QPSK Bandwidth 5MHz 25RB#0

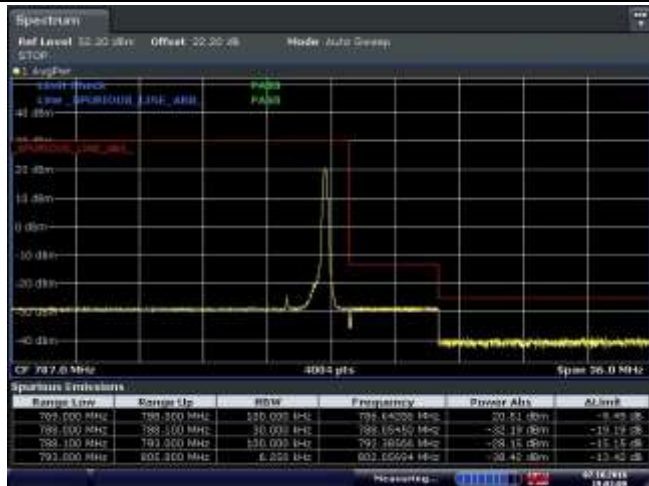

Date: 7.OCT.2016 19:04:27

CH23230 (782MHz) QPSK Bandwidth 10MHz 1RB#49


Date: 7.OCT.2016 19:01:26

CH23230 (782MHz) QPSK Bandwidth 10MHz 50RB#0

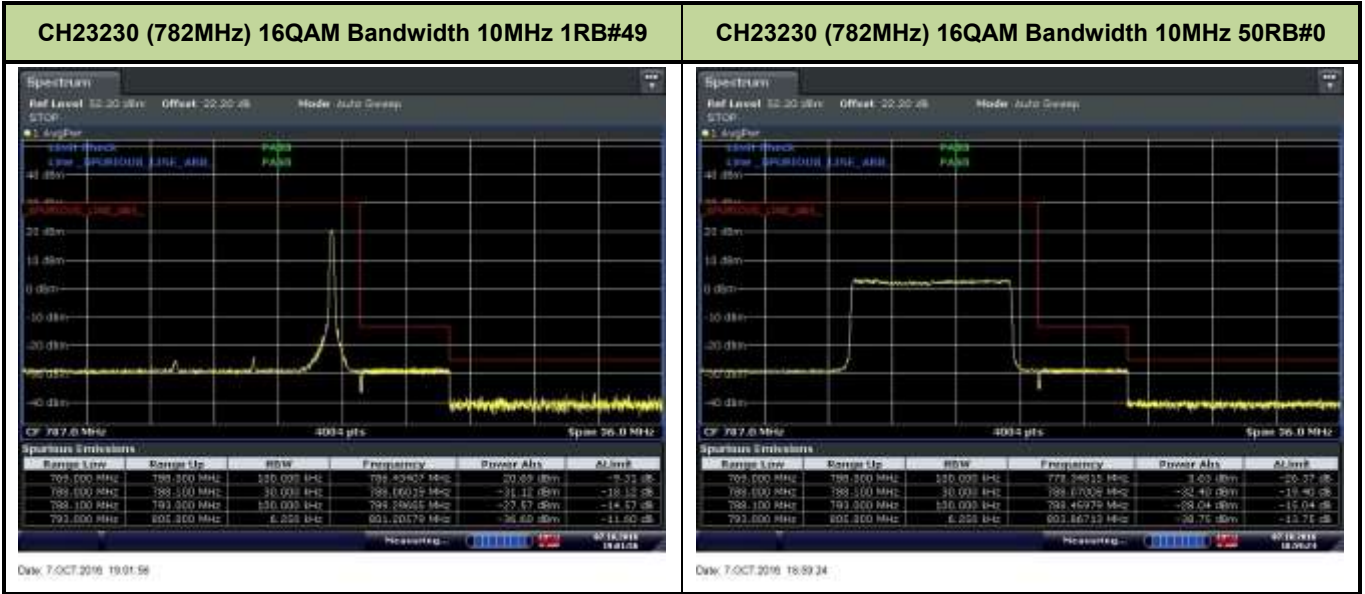

Date: 7.OCT.2016 19:01:28

CH23255 (784.5MHz) 16QAM Bandwidth 5MHz 1RB#24


Date: 7.OCT.2016 19:03:00

CH23255 (784.5MHz) 16QAM Bandwidth 5MHz 25RB#0

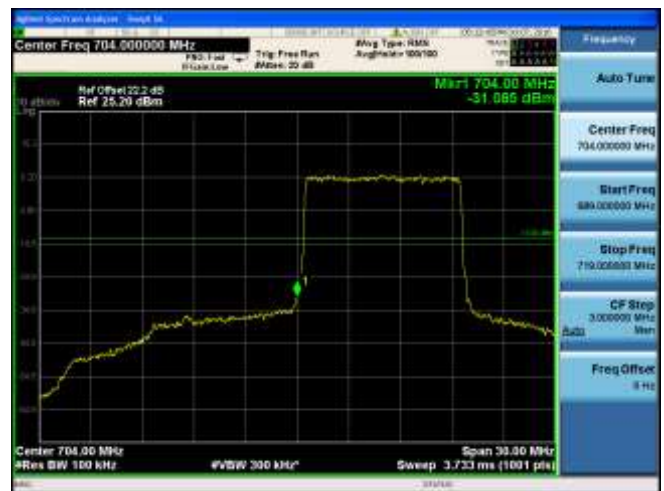

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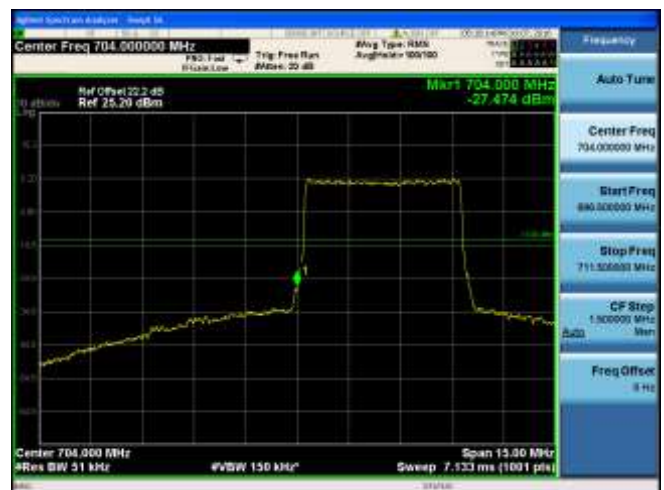


LTE Band 17 (Low Channel)
CH23755 (706.5MHz) QPSK Bandwidth 5MHz 1RB#0

CH23755 (706.5MHz) QPSK Bandwidth 5MHz 25RB#0

CH23780 (709MHz) QPSK Bandwidth 10MHz 1RB#0

CH23780 (709MHz) QPSK Bandwidth 10MHz 50RB#0

CH23755 (706.5MHz) 16QAM Bandwidth 5MHz 1RB#0

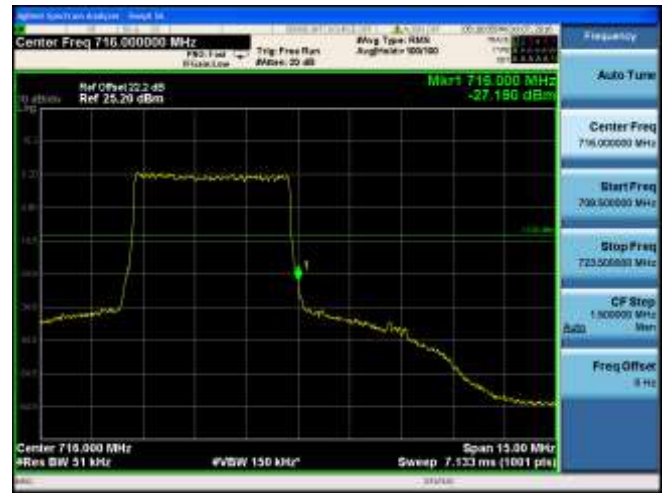
CH23755 (706.5MHz) 16QAM Bandwidth 5MHz 25RB#0


CH23780 (709MHz) 16QAM Bandwidth 10MHz 1RB#0

CH23780 (709MHz) 16QAM Bandwidth 10MHz 50RB#0


LTE Band 17 (High Channel)

CH23825 (713.5MHz) QPSK Bandwidth 5MHz 1RB#24

CH23825 (713.5MHz) QPSK Bandwidth 5MHz 25RB#0

CH23800 (711MHz) QPSK Bandwidth 10MHz 1RB#49

CH23800 (711MHz) QPSK Bandwidth 10MHz 50RB#0

CH23825 (713.5MHz) 16QAM Bandwidth 5MHz 1RB#24

CH23825 (713.5MHz) 16QAM Bandwidth 5MHz 25RB#0




7.5. Power and Radiated Spurious Emissions

7.5.1 Test Limit

Radiated Power

For FCC Part 22.913(a)(2):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(c)/27.50(h):

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

For FCC Part 27.50(b):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 3 Watts.

For FCC Part 27.50(d):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 1 Watts.

Radiated Spurious Emissions

For FCC Part 22.917(a)/24.238(a)/27.53(c)/27.53(f)/27.53(h):

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 $43 + 10\log_{10}(P)$ dB.

For FCC Part 27.53(m):

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 $55 + 10\log_{10}(P)$ dB.

7.5.2 Test Procedure Used

KDB 971168 D01v03 - Section 7 & ANSI/TIA-603-E-2016

7.5.3 Test Setting

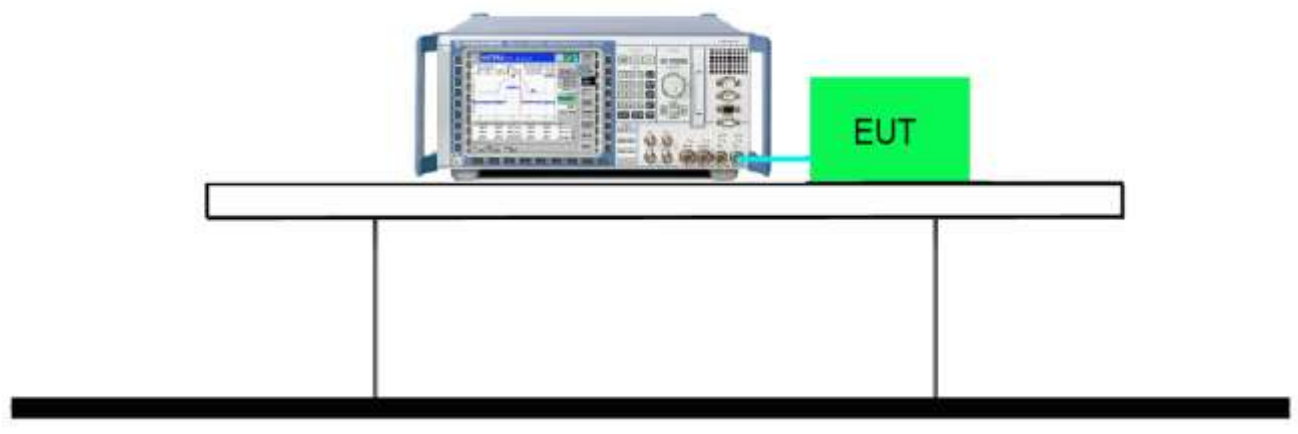
1. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
3. The output of the test antenna shall be connected to the measuring receiver.
4. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
5. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
6. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
7. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
8. The maximum signal level detected by the measuring receiver shall be noted.
9. The transmitter shall be replaced by a substitution antenna.
10. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
14. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the

transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.

15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
16. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
17. Test site anechoic chamber refer to ANSI C63.4: 2014.

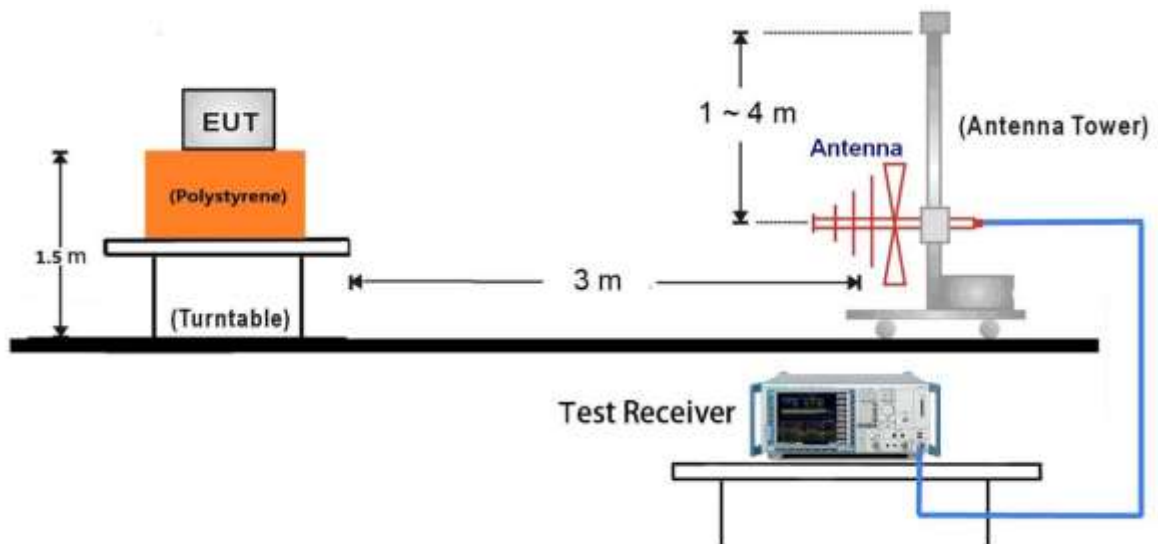
7.5.4 Test Setup

Conducted Power

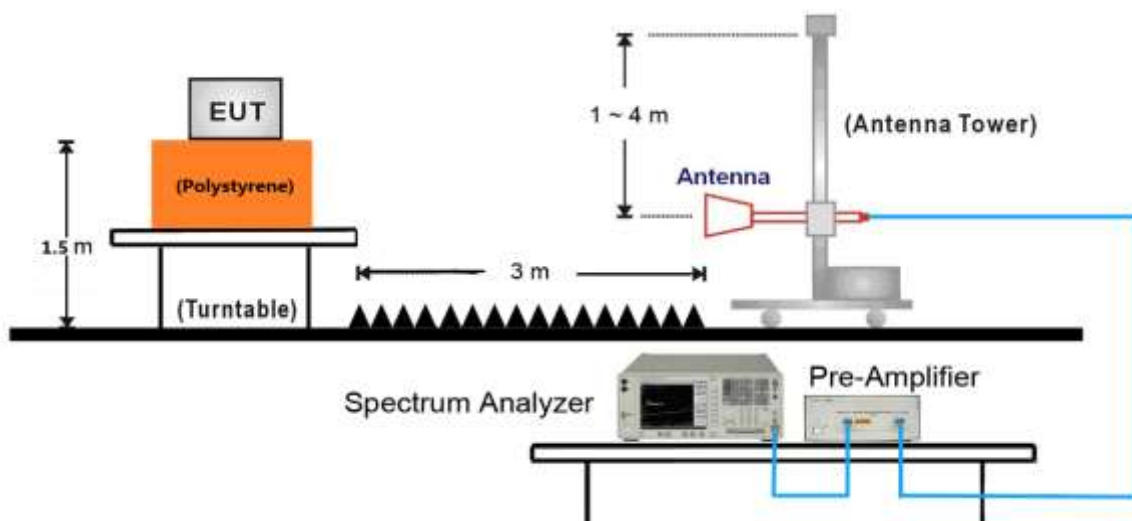


Radiated Power & Radiated Spurious Emissions

30MHz ~ 1GHz Test Setup:



1GHz ~ 10GHz Test Setup:



7.5.5 Test Result
Conducted Power

Band 2		1.4M			3M			5M			10M			15M			20M			MPR
Channel	Modulation	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	
		No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	
		18607 (1850.7MHz)			18615 (1851.5MHz)			18625 (1852.5MHz)			18650 (1855MHz)			18675 (1857.5MHz)			18700 (1860MHz)			
Low	QPSK	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-1
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-1
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-1
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0-1
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0-1
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-2
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-2
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-2
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-2
Mid	QPSK	18900 (1880MHz)			18900 (1880MHz)			18900 (1880MHz)			18900 (1880MHz)			18900 (1880MHz)			18900 (1880MHz)			MPR



		1	#0			1	#0			1	#0			1	#0			1	#0			0		
		1	#2			1	#7			1	#12			1	#25			1	#36			1	#49	0
		1	#5			1	#14			1	#24			1	#49			1	#74			1	#99	0
		3	#0			8	#0			12	#0			25	#0			36	#0			50	#0	0-1
		3	#2			8	#4			12	#6			25	#12			36	#18			50	#24	0-1
		3	#3			8	#7			12	#13			25	#25			36	#37			50	#49	0-1
		6	#0			15	#0			25	#0			50	#0			75	#0			100	#0	0-1
	16QAM	1	#0			1	#0			1	#0			1	#0			1	#0			1	#0	0-1
		1	#2			1	#7			1	#12			1	#25			1	#36			1	#49	0-1
		1	#5			1	#14			1	#24			1	#49			1	#74			1	#99	0-1
		3	#0			8	#0			12	#0			25	#0			36	#0			50	#0	0-2
		3	#2			8	#4			12	#6			25	#12			36	#18			50	#24	0-2
		3	#3			8	#7			12	#13			25	#25			36	#37			50	#49	0-2
		6	#0			15	#0			25	#0			50	#0			75	#0			100	#0	0-2

High	QPSK	19193 (1909.3MHz)		19185 (1908.5MHz)		19175 (1907.5MHz)		19150 (1905MHz)		19125 (1902.5MHz)		19100 (1900MHz)		MPR		
		1	#0			1	#0			1	#0			1	#0	0
		1	#2			1	#7			1	#12			1	#36	0
		1	#5			1	#14			1	#24			1	#74	0
		3	#0			8	#0			12	#0			25	#0	0-1

	3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-1
	3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-1
	6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-1
16QAM	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0-1
	1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0-1
	1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0-1
	3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-2
	3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-2
	3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-2
	6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-2

Band 4		1.4M			3M			5M			10M			15M			20M			MPR
Channel	Modulation	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	RB	RB	Max	
		No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	No.	Offset	Power	
		19957 (1710.7MHz)			19965 (1711.5MHz)			19975 (1712.5MHz)			20000 (1715MHz)			20025 (1717.5MHz)			20050 (1720MHz)			
Low	QPSK	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-1
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-1
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-1
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0-1
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0-1
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-2
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-2
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-2
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-2
Mid	QPSK	20175 (1732.5MHz)			20175 (1732.5MHz)			20175 (1732.5MHz)			20175 (1732.5MHz)			20175 (1732.5MHz)			20175 (1732.5MHz)			MPR
		1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0

	1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0
	3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-1
	3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-1
	3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-1
	6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-1
16QAM	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0-1
	1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0-1
	1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0-1
	3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-2
	3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-2
	3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-2
	6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-2

		20393 (1754.3MHz)			20385 (1753.5MHz)			20375 (1752.5MHz)			20350 (1750MHz)			20325 (1747.5MHz)			20300 (1745MHz)			MPR
		1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		
High	QPSK	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-1
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-1
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-1
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		1	#36		1	#49		0-1
		1	#5		1	#14		1	#24		1	#49		1	#74		1	#99		0-1
		3	#0		8	#0		12	#0		25	#0		36	#0		50	#0		0-2
		3	#2		8	#4		12	#6		25	#12		36	#18		50	#24		0-2
		3	#3		8	#7		12	#13		25	#25		36	#37		50	#49		0-2
		6	#0		15	#0		25	#0		50	#0		75	#0		100	#0		0-2

Band 5		1.4M			3M			5M			10M			MPR	
Channel	Modulation	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power		
		20407 (824.7MHz)			20415 (825.5MHz)			20425 (826.5MHz)			20450 (829MHz)				
Low	QPSK	1	#0	22.22	1	#0	22.09	1	#0	22.17	1	#0	22.18		0
		1	#2	22.25	1	#7	22.30	1	#12	22.17	1	#25	22.27	0	
		1	#5	22.13	1	#14	22.09	1	#24	22.07	1	#49	22.26	0	
		3	#0	22.27	8	#0	21.27	12	#0	21.29	25	#0	21.25	0-1	
		3	#2	22.25	8	#4	21.23	12	#6	21.28	25	#12	21.27	0-1	
		3	#3	22.23	8	#7	21.27	12	#13	21.24	25	#25	21.31	0-1	
		16QAM	6	#0	21.26	15	#0	21.26	25	#0	21.22	50	#0	21.27	0-1
			1	#0	21.42	1	#0	21.28	1	#0	21.26	1	#0	21.36	0-1
			1	#2	21.37	1	#7	21.37	1	#12	21.13	1	#25	21.47	0-1
			1	#5	21.16	1	#14	21.30	1	#24	21.45	1	#49	21.22	0-1
			3	#0	21.26	8	#0	20.36	12	#0	20.36	25	#0	20.32	0-2
			3	#2	21.20	8	#4	20.36	12	#6	20.30	25	#12	20.31	0-2
			3	#3	21.28	8	#7	20.23	12	#13	20.32	25	#25	20.24	0-2
			6	#0	20.43	15	#0	20.31	25	#0	20.28	50	#0	20.27	0-2
Mid	QPSK	20525 (836.5MHz)			20525 (836.5MHz)			20525 (836.5MHz)			20525 (836.5MHz)			MPR	
		1	#0		1	#0		1	#0		1	#0		0	
		1	#2		1	#7		1	#12		1	#25		0	
		1	#5		1	#14		1	#24		1	#49		0	
		3	#0		8	#0		12	#0		25	#0		0-1	
		3	#2		8	#4		12	#6		25	#12		0-1	
		3	#3		8	#7		12	#13		25	#25		0-1	
		6	#0		15	#0		25	#0		50	#0		0-1	
		16QAM	1	#0		1	#0		1	#0		1	#0		0-1

		1	#2		1	#7		1	#12		1	#25		0-1
		1	#5		1	#14		1	#24		1	#49		0-1
		3	#0		8	#0		12	#0		25	#0		0-2
		3	#2		8	#4		12	#6		25	#12		0-2
		3	#3		8	#7		12	#13		25	#25		0-2
		6	#0		15	#0		25	#0		50	#0		0-2

		20643 (848.3MHz)			20635 (847.5MHz)			20625 (846.5MHz)			20600 (844MHz)			MPR
High	QPSK	1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		0
		1	#5		1	#14		1	#24		1	#49		0
		3	#0		8	#0		12	#0		25	#0		0-1
		3	#2		8	#4		12	#6		25	#12		0-1
		3	#3		8	#7		12	#13		25	#25		0-1
		6	#0		15	#0		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		0-1
		1	#5		1	#14		1	#24		1	#49		0-1
		3	#0		8	#0		12	#0		25	#0		0-2
		3	#2		8	#4		12	#6		25	#12		0-2
		3	#3		8	#7		12	#13		25	#25		0-2
		6	#0		15	#0		25	#0		50	#0		0-2

Band 7		5M			10M			15M			20M			MPR
Channel	Modulation	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	
		20775 (2502.5MHz)			20800 (2505MHz)			20825 (2507.5MHz)			20850 (2510MHz)			
Low	QPSK	1	#0		1	#0		1	#0		1	#0		0
		1	#12		1	#25		1	#36		1	#49		0
		1	#24		1	#49		1	#74		1	#99		0
		12	#0		25	#0		36	#0		50	#0		0-1
		12	#6		25	#12		36	#18		50	#24		0-1
		12	#13		25	#25		36	#37		50	#49		0-1
		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#12		1	#25		1	#36		1	#49		0-1
		1	#24		1	#49		1	#74		1	#99		0-1
		12	#0		25	#0		36	#0		50	#0		0-2
		12	#6		25	#12		36	#18		50	#24		0-2
		12	#13		25	#25		36	#37		50	#49		0-2
		25	#0		50	#0		75	#0		100	#0		0-2
Mid	QPSK	21100 (2535MHz)			21100 (2535MHz)			21100 (2535MHz)			21100 (2535MHz)			MPR
		1	#0		1	#0		1	#0		1	#0		0
		1	#12		1	#25		1	#36		1	#49		0

		1	#24		1	#49		1	#74		1	#99		0
		12	#0		25	#0		36	#0		50	#0		0-1
		12	#6		25	#12		36	#18		50	#24		0-1
		12	#13		25	#25		36	#37		50	#49		0-1
		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#12		1	#25		1	#36		1	#49		0-1
		1	#24		1	#49		1	#74		1	#99		0-1
		12	#0		25	#0		36	#0		50	#0		0-2
		12	#6		25	#12		36	#18		50	#24		0-2
		12	#13		25	#25		36	#37		50	#49		0-2
		25	#0		50	#0		75	#0		100	#0		0-2

		21425 (2567.5MHz)			21400 (2565MHz)			21375 (2562.5MHz)			21350 (2560MHz)			MPR
High	QPSK	1	#0		1	#0		1	#0		1	#0		0
		1	#12		1	#25		1	#36		1	#49		0
		1	#24		1	#49		1	#74		1	#99		0
		12	#0		25	#0		36	#0		50	#0		0-1
		12	#6		25	#12		36	#18		50	#24		0-1
		12	#13		25	#25		36	#37		50	#49		0-1
		25	#0		50	#0		75	#0		100	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#12		1	#25		1	#36		1	#49		0-1
		1	#24		1	#49		1	#74		1	#99		0-1
		12	#0		25	#0		36	#0		50	#0		0-2
		12	#6		25	#12		36	#18		50	#24		0-2
		12	#13		25	#25		36	#37		50	#49		0-2
		25	#0		50	#0		75	#0		100	#0		0-2

Band 12		1.4M			3M			5M			10M			MPR
Channel	Modulation	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	
		23017 (699.7MHz)			23025 (700.5MHz)			23035 (701.5MHz)			23060 (704MHz)			
Low	QPSK	1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		0
		1	#5		1	#14		1	#24		1	#49		0
		3	#0		8	#0		12	#0		25	#0		0-1
		3	#2		8	#4		12	#6		25	#12		0-1
		3	#3		8	#7		12	#13		25	#25		0-1
		6	#0		15	#0		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		0-1
		1	#5		1	#14		1	#24		1	#49		0-1
		3	#0		8	#0		12	#0		25	#0		0-2
		3	#2		8	#4		12	#6		25	#12		0-2
		3	#3		8	#7		12	#13		25	#25		0-2
		6	#0		15	#0		25	#0		50	#0		0-2
Mid	QPSK	23095 (707.5MHz)			23095 (707.5MHz)			23095 (707.5MHz)			23095 (707.5MHz)			MPR
		1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		0

		1	#5		1	#14		1	#24		1	#49		0
		3	#0		8	#0		12	#0		25	#0		0-1
		3	#2		8	#4		12	#6		25	#12		0-1
		3	#3		8	#7		12	#13		25	#25		0-1
		6	#0		15	#0		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		0-1
		1	#5		1	#14		1	#24		1	#49		0-1
		3	#0		8	#0		12	#0		25	#0		0-2
		3	#2		8	#4		12	#6		25	#12		0-2
		3	#3		8	#7		12	#13		25	#25		0-2
		6	#0		15	#0		25	#0		50	#0		0-2

		23173 (715.3MHz)			23165 (714.5MHz)			23155 (713.5MHz)			23130 (711MHz)			MPR
High	QPSK	1	#0		1	#0		1	#0		1	#0		0
		1	#2		1	#7		1	#12		1	#25		0
		1	#5		1	#14		1	#24		1	#49		0
		3	#0		8	#0		12	#0		25	#0		0-1
		3	#2		8	#4		12	#6		25	#12		0-1
		3	#3		8	#7		12	#13		25	#25		0-1
		6	#0		15	#0		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		1	#0		1	#0		0-1
		1	#2		1	#7		1	#12		1	#25		0-1
		1	#5		1	#14		1	#24		1	#49		0-1
		3	#0		8	#0		12	#0		25	#0		0-2
		3	#2		8	#4		12	#6		25	#12		0-2
		3	#3		8	#7		12	#13		25	#25		0-2
		6	#0		15	#0		25	#0		50	#0		0-2

Band 13		5M			10M			MPR
Channel	Modulation	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	
		23205 (779.5MHz)			23230 (782MHz)			
Low	QPSK	1	#0		N/A	N/A	N/A	0
		1	#12		N/A	N/A	N/A	0
		1	#24		N/A	N/A	N/A	0
		12	#0		N/A	N/A	N/A	0-1
		12	#6		N/A	N/A	N/A	0-1
		12	#13		N/A	N/A	N/A	0-1
		25	#0		N/A	N/A	N/A	0-1
	16QAM	1	#0		N/A	N/A	N/A	0-1
		1	#12		N/A	N/A	N/A	0-1
		1	#24		N/A	N/A	N/A	0-1
		12	#0		N/A	N/A	N/A	0-2
		12	#6		N/A	N/A	N/A	0-2
		12	#13		N/A	N/A	N/A	0-2
		25	#0		N/A	N/A	N/A	0-2
Mid	QPSK	23230 (782MHz)			23230 (782MHz)			MPR
		1	#0		1	#0		0
		1	#12		1	#25		0
		1	#24		1	#49		0
		12	#0		25	#0		0-1
		12	#6		25	#12		0-1
		12	#13		25	#25		0-1
	25	#0		50	#0		0-1	
	16QAM	1	#0		1	#0		0-1
		1	#12		1	#25		0-1
		1	#24		1	#49		0-1
		12	#0		25	#0		0-2
		12	#6		25	#12		0-2
		12	#13		25	#25		0-2
25		#0		50	#0		0-2	

		23255 (784.5MHz)			23230 (782MHz)			MPR
High	QPSK	1	#0		N/A	N/A	N/A	0
		1	#12		N/A	N/A	N/A	0
		1	#24		N/A	N/A	N/A	0
		12	#0		N/A	N/A	N/A	0-1
		12	#6		N/A	N/A	N/A	0-1
		12	#13		N/A	N/A	N/A	0-1
		25	#0		N/A	N/A	N/A	0-1
	16QAM	1	#0		N/A	N/A	N/A	0-1
		1	#12		N/A	N/A	N/A	0-1
		1	#24		N/A	N/A	N/A	0-1
		12	#0		N/A	N/A	N/A	0-2
		12	#6		N/A	N/A	N/A	0-2
		12	#13		N/A	N/A	N/A	0-2
		25	#0		N/A	N/A	N/A	0-2

Band 17		5M			10M			MPR
Channel	Modulation	RB No.	RB Offset	Max Power	RB No.	RB Offset	Max Power	
		23755 (706.5MHz)			23780 (709MHz)			
Low	QPSK	1	#0		1	#0		0
		1	#12		1	#25		0
		1	#24		1	#49		0
		12	#0		25	#0		0-1
		12	#6		25	#12		0-1
		12	#13		25	#25		0-1
		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		0-1
		1	#12		1	#25		0-1
		1	#24		1	#49		0-1
		12	#0		25	#0		0-2
		12	#6		25	#12		0-2
		12	#13		25	#25		0-2
		25	#0		50	#0		0-2
Mid	QPSK	23790 (710MHz)			23790 (710MHz)			MPR
		1	#0		1	#0		0
		1	#12		1	#25		0
		1	#24		1	#49		0
		12	#0		25	#0		0-1
		12	#6		25	#12		0-1
		12	#13		25	#25		0-1
	25	#0		50	#0		0-1	
	16QAM	1	#0		1	#0		0-1
		1	#12		1	#25		0-1
		1	#24		1	#49		0-1
		12	#0		25	#0		0-2
		12	#6		25	#12		0-2
		12	#13		25	#25		0-2
25		#0		50	#0		0-2	

		23825 (713.5MHz)			23800 (711MHz)			MPR
High	QPSK	1	#0		1	#0		0
		1	#12		1	#25		0
		1	#24		1	#49		0
		12	#0		25	#0		0-1
		12	#6		25	#12		0-1
		12	#13		25	#25		0-1
		25	#0		50	#0		0-1
	16QAM	1	#0		1	#0		0-1
		1	#12		1	#25		0-1
		1	#24		1	#49		0-1
		12	#0		25	#0		0-2
		12	#6		25	#12		0-2
		12	#13		25	#25		0-2
		25	#0		50	#0		0-2

Radiated Power

Band 2-1.4M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18607							
1850.7	H	13.11	1.71	10.04	21.44	33.00	-11.56
1850.7	V	9.30	1.71	10.04	17.63	33.00	-15.37
CH 18900							
1880	H	14.05	1.71	10.04	22.38	33.00	-10.62
1880	V	10.07	1.71	10.04	18.4	33.00	-14.6
CH 19193							
1909.3	H	14.40	1.71	10.04	22.73	33.00	-10.27
1909.3	V	10.35	1.71	10.04	18.68	33.00	-14.32

Band 2-1.4M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18607							
1850.7	H	12.50	1.71	10.04	20.83	33.00	-12.17
1850.7	V	8.59	1.71	10.04	16.92	33.00	-16.08
CH 18900							
1880	H	13.04	1.71	10.04	21.37	33.00	-11.63
1880	V	9.26	1.71	10.04	17.59	33.00	-15.41
CH 19193							
1909.3	H	13.69	1.71	10.04	22.02	33.00	-10.98
1909.3	V	9.54	1.71	10.04	17.87	33.00	-15.13

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 2-3M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18615							
1851.5	H	12.99	1.71	10.04	21.32	33.00	-11.68
1851.5	V	10.03	1.71	10.04	18.36	33.00	-14.64
CH 18900							
1880	H	12.29	1.71	10.04	20.62	33.00	-12.38
1880	V	8.17	1.71	10.04	16.50	33.00	-16.50
CH 19185							
1908.75	H	13.55	1.71	10.04	21.88	33.00	-11.12
1908.75	V	10.14	1.71	10.04	18.47	33.00	-14.53

Band 2-3M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18615							
1851.5	H	12.53	1.71	10.04	20.86	33.00	-12.14
1851.5	V	9.47	1.71	10.04	17.80	33.00	-15.20
CH 18900							
1880	H	11.43	1.71	10.04	19.76	33.00	-13.24
1880	V	7.51	1.71	10.04	15.84	33.00	-17.16
CH 19185							
1908.75	H	12.99	1.71	10.04	21.32	33.00	-11.68
1908.75	V	9.48	1.71	10.04	17.81	33.00	-15.19

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 2-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18625							
1852.5	H	12.17	1.71	10.04	20.5	33.00	-12.50
1852.5	V	9.42	1.71	10.04	17.75	33.00	-15.25
CH 18900							
1880	H	12.72	1.71	10.04	21.05	33.00	-11.95
1880	V	9.52	1.71	10.04	17.85	33.00	-15.15
CH 19175							
1907.5	H	14.90	1.71	10.04	23.23	33.00	-9.77
1907.5	V	10.21	1.71	10.04	18.54	33.00	-14.46

Band 2-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18625							
1852.5	H	11.71	1.71	10.04	20.04	33.00	-12.96
1852.5	V	8.86	1.71	10.04	17.19	33.00	-15.81
CH 18900							
1880	H	11.86	1.71	10.04	20.19	33.00	-12.81
1880	V	8.86	1.71	10.04	17.19	33.00	-15.81
CH 19175							
1907.5	H	14.34	1.71	10.04	22.67	33.00	-10.33
1907.5	V	9.55	1.71	10.04	17.88	33.00	-15.12

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 2-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18650							
1855	H	12.86	1.71	10.04	21.19	33.00	-11.81
1855	V	7.99	1.71	10.04	16.32	33.00	-16.68
CH 18900							
1880	H	13.73	1.71	10.04	22.06	33.00	-10.94
1880	V	9.62	1.71	10.04	17.95	33.00	-15.05
CH 19150							
1902.5	H	14.63	1.71	10.04	22.96	33.00	-10.04
1902.5	V	10.2	1.71	10.04	18.53	33.00	-14.47

Band 2-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18650							
1855	H	12.30	1.71	10.04	20.63	33.00	-12.37
1855	V	7.33	1.71	10.04	15.66	33.00	-17.34
CH 18900							
1880	H	12.77	1.71	10.04	21.10	33.00	-11.90
1880	V	8.86	1.71	10.04	17.19	33.00	-15.81
CH 19150							
1902.5	H	13.97	1.71	10.04	22.30	33.00	-10.70
1902.5	V	9.44	1.71	10.04	17.77	33.00	-15.23

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 2-15M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18675							
1857.5	H	13.80	1.71	10.04	22.13	33.00	-10.87
1857.5	V	9.44	1.71	10.04	17.77	33.00	-15.23
CH 18900							
1880	H	14.05	1.71	10.04	22.38	33.00	-10.62
1880	V	10.17	1.71	10.04	18.5	33.00	-14.5
CH 19125							
1902.5	H	14.53	1.71	10.04	22.86	33.00	-10.14
1902.5	V	9.82	1.71	10.04	18.15	33.00	-14.85

Band 2-15M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18675							
1857.5	H	12.52	1.71	10.04	20.85	33.00	-12.15
1857.5	V	8.06	1.71	10.04	16.39	33.00	-16.61
CH 18900							
1880	H	12.37	1.71	10.04	20.70	33.00	-12.30
1880	V	8.69	1.71	10.04	17.02	33.00	-15.98
CH 19125							
1902.5	H	13.15	1.71	10.04	21.48	33.00	-11.52
1902.5	V	8.34	1.71	10.04	16.67	33.00	-16.33

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 2-20M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18700							
1860	H	13.47	1.71	10.04	21.80	33.00	-11.20
1855	V	9.92	1.71	10.04	18.25	33.00	-14.75
CH 18900							
1880	H	13.17	1.71	10.04	21.5	33.00	-11.50
1880	V	8.80	1.71	10.04	17.13	33.00	-15.87
CH 19100							
1900	H	13.81	1.71	10.04	22.14	33.00	-10.86
1900	V	9.61	1.71	10.04	17.94	33.00	-15.06

Band 2-20M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18700							
1860	H	12.49	1.71	10.04	20.82	33.00	-12.18
1855	V	8.84	1.71	10.04	17.17	33.00	-15.83
CH 18900							
1880	H	11.79	1.71	10.04	20.12	33.00	-12.88
1880	V	7.62	1.71	10.04	15.95	33.00	-17.05
CH 19100							
1900	H	12.73	1.71	10.04	21.06	33.00	-11.94
1900	V	8.43	1.71	10.04	16.76	33.00	-16.24

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-1.4M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19957							
1710.7	H	8	1.63	9.95	16.32	30.00	-13.68
1710.7	V	2.17	1.63	9.95	10.49	30.00	-19.51
CH 20175							
1732.5	H	8.01	1.63	9.95	16.33	30.00	-13.67
1732.5	V	0.5	1.63	9.95	8.82	30.00	-21.18
CH 20393							
1754.3	H	8.88	1.63	9.95	17.2	30.00	-12.8
1754.3	V	2.15	1.63	9.95	10.47	30.00	-19.53

Band 4-1.4M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19957							
1710.7	H	7.52	1.63	9.95	15.84	30.00	-14.16
1710.7	V	1.59	1.63	9.95	9.91	30.00	-20.09
CH 20175							
1732.5	H	7.13	1.63	9.95	15.45	30.00	-14.55
1732.5	V	-0.18	1.63	9.95	8.14	30.00	-21.86
CH 20393							
1754.3	H	8.30	1.63	9.95	16.62	30.00	-13.38
1754.3	V	1.47	1.63	9.95	9.79	30.00	-20.21

NOTES:

- ERP (dBm) / EIRP (dBm)=
 $SG \text{ (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd/dBi)}$
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-3M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19965							
1711.5	H	8.05	1.63	9.95	16.37	30	-13.63
1711.5	V	2.16	1.63	9.95	10.48	30	-19.52
CH 20175							
1732.5	H	8.72	1.63	9.95	17.04	30	-12.96
1732.5	V	1.64	1.63	9.95	9.96	30	-20.04
CH 20385							
1753.5	H	8.19	1.63	9.95	16.51	30	-13.49
1753.5	V	1.93	1.63	9.95	10.25	30	-19.75

Band 4-3M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19965							
1711.5	H	7.43	1.63	9.95	15.75	30.00	-14.25
1711.5	V	1.44	1.63	9.95	9.76	30.00	-20.24
CH 20175							
1732.5	H	7.70	1.63	9.95	16.02	30.00	-13.98
1732.5	V	0.82	1.63	9.95	9.14	30.00	-20.86
CH 20385							
1753.5	H	7.47	1.63	9.95	15.79	30.00	-14.21
1753.5	V	1.11	1.63	9.95	9.43	30.00	-20.57

NOTES:

- ERP (dBm) / EIRP (dBm)=
 $SG \text{ (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd/dBi)}$
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19975							
1712.5	H	7.99	1.63	9.95	16.31	30	-13.69
1712.5	V	3.1	1.63	9.95	11.42	30	-18.58
CH 20175							
1732.5	H	8.82	1.63	9.95	17.14	30	-12.86
1732.5	V	1.26	1.63	9.95	9.58	30	-20.42
CH 20375							
1752.5	H	8.91	1.63	9.95	17.23	30	-12.77
1752.5	V	1.63	1.63	9.95	9.95	30	-20.05

Band 4-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 19975							
1712.5	H	7.44	1.63	9.95	15.76	30.00	-14.24
1712.5	V	2.45	1.63	9.95	10.77	30.00	-19.23
CH 20175							
1732.5	H	7.87	1.63	9.95	16.19	30.00	-13.81
1732.5	V	0.51	1.63	9.95	8.83	30.00	-21.17
CH 20375							
1752.5	H	8.26	1.63	9.95	16.58	30.00	-13.42
1752.5	V	0.88	1.63	9.95	9.20	30.00	-20.80

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20000							
1715	H	8.82	1.63	9.95	17.14	30	-12.86
1715	V	3.57	1.63	9.95	11.89	30	-18.11
CH 20175							
1732.5	H	8.66	1.63	9.95	16.98	30	-13.02
1732.5	V	1.11	1.63	9.95	9.43	30	-20.57
CH 20350							
1750	H	8.67	1.63	9.95	16.99	30	-13.01
1750	V	2.7	1.63	9.95	11.02	30	-18.98

Band 4-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20000							
1715	H	8.39	1.63	9.95	16.71	30.00	-13.29
1715	V	3.04	1.63	9.95	11.36	30.00	-18.64
CH 20175							
1732.5	H	7.83	1.63	9.95	16.15	30.00	-13.85
1732.5	V	0.48	1.63	9.95	8.80	30.00	-21.20
CH 20350							
1750	H	8.14	1.63	9.95	16.46	30.00	-13.54
1750	V	2.07	1.63	9.95	10.39	30.00	-19.61

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-15M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20025							
1717.5	H	9	1.63	9.95	17.32	30	-12.68
1717.5	V	4.42	1.63	9.95	12.74	30	-17.26
CH 20175							
1732.5	H	8.85	1.63	9.95	17.17	30	-12.83
1732.5	V	3.7	1.63	9.95	12.02	30	-17.98
CH 20325							
1747.5	H	8.87	1.63	9.95	17.19	30	-12.81
1747.5	V	3.8	1.63	9.95	12.12	30	-17.88

Band 4-15M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20025							
1717.5	H	8.61	1.63	9.95	16.93	30.00	-13.07
1717.5	V	3.93	1.63	9.95	12.25	30.00	-17.75
CH 20175							
1732.5	H	8.06	1.63	9.95	16.38	30.00	-13.62
1732.5	V	3.11	1.63	9.95	11.43	30.00	-18.57
CH 20325							
1747.5	H	8.38	1.63	9.95	16.70	30.00	-13.30
1747.5	V	3.21	1.63	9.95	11.53	30.00	-18.47

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 4-20M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20050							
1720	H	8.98	1.63	9.95	17.3	30	-12.7
1720	V	1.57	1.63	9.95	9.89	30	-20.11
CH 20175							
1732.5	H	8.69	1.63	9.95	17.01	30	-12.99
1732.5	V	1.8	1.63	9.95	10.12	30	-19.88
CH 20300							
1745	H	8.93	1.63	9.95	17.25	30	-12.75
1745	V	0.73	1.63	9.95	9.05	30	-20.95

Band 4-20M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20050							
1720	H	8.30	1.63	9.95	16.62	30.00	-13.38
1720	V	0.79	1.63	9.95	9.11	30.00	-20.89
CH 20175							
1732.5	H	7.61	1.63	9.95	15.93	30.00	-14.07
1732.5	V	0.92	1.63	9.95	9.24	30.00	-20.76
CH 20300							
1745	H	8.15	1.63	9.95	16.47	30.00	-13.53
1745	V	-0.15	1.63	9.95	8.17	30.00	-21.83

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 5-1.4M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20487							
824.7	H	13.4	0.87	0.68	13.21	38.50	-25.29
824.7	V	10.24	0.87	0.68	10.05	38.50	-28.45
CH 20525							
836.5	H	14.5	0.87	0.68	14.31	38.50	-24.19
836.5	V	11.08	0.87	0.68	10.89	38.50	-27.61
CH 20643							
848.3	H	13.4	0.88	0.68	13.2	38.50	-25.3
848.3	V	10.76	0.88	0.68	10.56	38.50	-27.94

Band 5-1.4M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20487							
824.7	H	12.69	0.87	0.68	12.50	38.50	-26.00
824.7	V	9.43	0.87	0.68	9.24	38.50	-29.26
CH 20525							
836.5	H	13.39	0.87	0.68	13.20	38.50	-25.30
836.5	V	10.17	0.87	0.68	9.98	38.50	-28.52
CH 20643							
848.3	H	12.58	0.87	0.68	12.39	38.50	-26.11
848.3	V	9.84	0.87	0.68	9.65	38.50	-28.85

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 5-3M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20415							
825.5	H	13.71	0.87	0.68	13.52	38.50	-24.98
825.5	V	10.43	0.87	0.68	10.24	38.50	-28.26
CH 20525							
836.5	H	14.2	0.87	0.68	14.01	38.50	-24.49
836.5	V	10.61	0.87	0.68	10.42	38.50	-28.08
CH 20635							
847.5	H	13.65	0.88	0.68	13.45	38.50	-25.05
847.5	V	10.33	0.88	0.68	10.13	38.50	-28.37

Band 5-3M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20415							
825.5	H	13.01	0.87	0.68	12.82	38.50	-25.68
825.5	V	9.63	0.87	0.68	9.44	38.50	-29.06
CH 20525							
836.5	H	13.10	0.87	0.68	12.91	38.50	-25.59
836.5	V	9.71	0.87	0.68	9.52	38.50	-28.98
CH 20635							
847.5	H	12.84	0.87	0.68	12.65	38.50	-25.85
847.5	V	9.42	0.87	0.68	9.23	38.50	-29.27

NOTES:

4. ERP (dBm) / EIRP (dBm)=
 $SG \text{ (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd/dBi)}$
5. This unit was tested with its standard adapter.
6. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 5-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20425							
826.5	H	12.62	0.87	0.68	12.43	38.50	-26.07
826.5	V	9.53	0.87	0.68	9.34	38.50	-29.16
CH 20525							
836.5	H	14.08	0.87	0.68	13.89	38.50	-24.61
836.5	V	10.13	0.87	0.68	9.94	38.50	-28.56
CH 20635							
847.5	H	14.22	0.88	0.68	14.02	38.50	-24.48
847.5	V	9.19	0.88	0.68	8.99	38.50	-29.51

Band 5-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20425							
826.5	H	11.92	0.87	0.68	11.73	38.50	-26.77
826.5	V	8.73	0.87	0.68	8.54	38.50	-29.96
CH 20525							
836.5	H	12.98	0.87	0.68	12.79	38.50	-25.71
836.5	V	9.23	0.87	0.68	9.04	38.50	-29.46
CH 20635							
847.5	H	13.41	0.87	0.68	13.22	38.50	-25.28
847.5	V	8.28	0.87	0.68	8.09	38.50	-30.41

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 5-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20450							
829	H	14.13	0.87	0.68	13.94	38.50	-24.56
829	V	10.32	0.87	0.68	10.13	38.50	-28.37
CH 20525							
836.5	H	14.23	0.87	0.68	14.04	38.50	-24.46
836.5	V	10.52	0.87	0.68	10.33	38.50	-28.17
CH 20600							
844	H	15.44	0.88	0.68	15.24	38.50	-23.26
844	V	9.51	0.88	0.68	9.31	38.50	-29.19

Band 5-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 20450							
829	H	13.46	0.87	0.68	13.27	38.50	-25.23
829	V	9.55	0.87	0.68	9.36	38.50	-29.14
CH 20525							
836.5	H	13.16	0.87	0.68	12.97	38.50	-25.53
836.5	V	9.65	0.87	0.68	9.46	38.50	-29.04
CH 20600							
844	H	14.66	0.87	0.68	14.47	38.50	-24.03
844	V	8.63	0.87	0.68	8.44	38.50	-30.06

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 7-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20775							
2502.5	H	5.09	2.34	10.73	13.48	33.00	-19.52
2502.5	V	4.03	2.34	10.73	12.42	33.00	-20.58
CH 21100							
2535	H	4.79	2.34	10.73	13.18	33.00	-19.82
2535	V	4.35	2.34	10.73	12.74	33.00	-20.26
CH 21425							
2567.5	H	6.14	2.34	10.73	14.53	33.00	-18.47
2567.5	V	3.96	2.34	10.73	12.35	33.00	-20.65

Band 7-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20775							
2502.5	H	4.31	2.34	10.73	12.70	33.00	-20.30
2502.5	V	3.15	2.34	10.73	11.54	33.00	-21.46
CH 21100							
2535	H	3.61	2.34	10.73	12.00	33.00	-21.00
2535	V	3.37	2.34	10.73	11.76	33.00	-21.24
CH 21425							
2567.5	H	5.26	2.34	10.73	13.65	33.00	-19.35
2567.5	V	2.98	2.34	10.73	11.37	33.00	-21.63

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 7-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20800							
2505	H	5.99	2.34	10.73	14.38	33.00	-18.62
2505	V	4.84	2.34	10.73	13.23	33.00	-19.77
CH 21100							
2535	H	5.63	2.34	10.73	14.02	33.00	-18.98
2535	V	4.60	2.34	10.73	12.99	33.00	-20.01
CH 21400							
2565	H	5.50	2.34	10.73	13.89	33.00	-19.11
2565	V	4.06	2.34	10.73	12.45	33.00	-20.55

Band 7-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20800							
2505	H	5.26	2.34	10.73	13.65	33.00	-19.35
2505	V	4.01	2.34	10.73	12.40	33.00	-20.60
CH 21100							
2535	H	4.50	2.34	10.73	12.89	33.00	-20.11
2535	V	3.67	2.34	10.73	12.06	33.00	-20.94
CH 21400							
2565	H	4.67	2.34	10.73	13.06	33.00	-19.94
2565	V	3.13	2.34	10.73	11.52	33.00	-21.48

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 7-15M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20825							
2507.5	H	5.19	2.34	10.73	13.58	33.00	-19.42
2507.5	V	3.92	2.34	10.73	12.31	33.00	-20.69
CH 21100							
2535	H	5.6	2.34	10.73	13.99	33.00	-19.01
2535	V	4.59	2.34	10.73	12.98	33.00	-20.02
CH 21375							
2562.5	H	5.62	2.34	10.73	14.01	33.00	-18.99
2562.5	V	4.45	2.34	10.73	12.84	33.00	-20.16

Band 7-15M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20825							
2507.5	H	4.41	2.34	10.73	12.80	33.00	-20.20
2507.5	V	3.04	2.34	10.73	11.43	33.00	-21.57
CH 21100							
2535	H	4.42	2.34	10.73	12.81	33.00	-20.19
2535	V	3.61	2.34	10.73	12.00	33.00	-21.00
CH 21375							
2562.5	H	4.74	2.34	10.73	13.13	33.00	-19.87
2562.5	V	3.47	2.34	10.73	11.86	33.00	-21.14

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 7-20M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20850							
2510	H	5.65	2.34	10.73	14.04	33.00	-18.96
2510	V	5.19	2.34	10.73	13.58	33.00	-19.42
CH 21100							
2535	H	5.46	2.34	10.73	13.85	33.00	-19.15
2535	V	3.94	2.34	10.73	12.33	33.00	-20.67
CH 21350							
2560	H	5.39	2.34	10.73	13.78	33.00	-19.22
2560	V	4.25	2.34	10.73	12.64	33.00	-20.36

Band 7-20M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20850							
2510	H	4.94	2.34	10.73	13.33	33.00	-19.67
2510	V	4.38	2.34	10.73	12.77	33.00	-20.23
CH 21100							
2535	H	4.35	2.34	10.73	12.74	33.00	-20.26
2535	V	3.03	2.34	10.73	11.42	33.00	-21.58
CH 21350							
2560	H	4.58	2.34	10.73	12.97	33.00	-20.03
2560	V	3.34	2.34	10.73	11.73	33.00	-21.27

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 12-1.4M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23017							
699.7	H	16.27	0.8	0.51	15.98	34.77	-18.79
699.7	V	12.64	0.8	0.51	12.35	34.77	-22.42
CH 23095							
707.5	H	18.36	0.8	0.51	18.07	34.77	-16.70
707.5	V	14.11	0.8	0.51	13.82	34.77	-20.95
CH 23173							
715.3	H	19.25	0.8	0.51	18.96	34.77	-15.81
715.3	V	15.07	0.8	0.51	14.78	34.77	-19.99

Band 12-1.4M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23017							
699.7	H	15.84	0.8	0.51	15.55	34.77	-19.22
699.7	V	12.11	0.8	0.51	11.82	34.77	-22.95
CH 23095							
707.5	H	17.53	0.8	0.51	17.24	34.77	-17.53
707.5	V	13.48	0.8	0.51	13.19	34.77	-21.58
CH 23173							
715.3	H	18.72	0.8	0.51	18.43	34.77	-16.34
715.3	V	14.44	0.8	0.51	14.15	34.77	-20.62

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 12-3M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23025							
700.5	H	16.92	0.8	0.51	16.63	34.77	-18.14
700.5	V	12.74	0.8	0.51	12.45	34.77	-22.32
CH 23095							
707.5	H	17.03	0.8	0.51	16.74	34.77	-18.03
707.5	V	14.14	0.8	0.51	13.85	34.77	-20.92
CH 23165							
714.5	H	17.78	0.8	0.51	17.49	34.77	-17.28
714.5	V	14.20	0.8	0.51	13.91	34.77	-20.86

Band 12-3M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23025							
700.5	H	16.50	0.8	0.51	16.21	34.77	-18.56
700.5	V	12.22	0.8	0.51	11.93	34.77	-22.84
CH 23095							
707.5	H	16.21	0.8	0.51	15.92	34.77	-18.85
707.5	V	13.52	0.8	0.51	13.23	34.77	-21.54
CH 23165							
714.5	H	17.26	0.8	0.51	16.97	34.77	-17.80
714.5	V	13.58	0.8	0.51	13.29	34.77	-21.48

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 12-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23035							
701.5	H	16.99	0.8	0.51	16.70	34.77	-18.07
701.5	V	12.85	0.8	0.51	12.56	34.77	-22.21
CH 23095							
707.5	H	17.22	0.8	0.51	16.93	34.77	-17.84
707.5	V	13.31	0.8	0.51	13.02	34.77	-21.75
CH 23155							
713.5	H	17.30	0.8	0.51	17.01	34.77	-17.76
713.5	V	13.27	0.8	0.51	12.98	34.77	-21.79

Band 12-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23035							
701.5	H	16.59	0.8	0.51	16.30	34.77	-18.47
701.5	V	12.35	0.8	0.51	12.06	34.77	-22.71
CH 23095							
707.5	H	16.42	0.8	0.51	16.13	34.77	-18.64
707.5	V	12.71	0.8	0.51	12.42	34.77	-22.35
CH 23155							
713.5	H	16.80	0.8	0.51	16.51	34.77	-18.26
713.5	V	12.67	0.8	0.51	12.38	34.77	-22.39

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 12-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23060							
704	H	17.31	0.8	0.51	17.02	34.77	-17.75
704	V	13.23	0.8	0.51	12.94	34.77	-21.83
CH 23095							
707.5	H	16.88	0.8	0.51	16.59	34.77	-18.18
707.5	V	13.3	0.8	0.51	13.01	34.77	-21.76
CH 23130							
711	H	18.18	0.8	0.51	17.89	34.77	-16.88
711	V	13.07	0.8	0.51	12.78	34.77	-21.99

Band 12-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23060							
704	H	16.85	0.8	0.51	16.56	34.77	-18.21
704	V	12.67	0.8	0.51	12.38	34.77	-22.39
CH 23095							
707.5	H	16.02	0.8	0.51	15.73	34.77	-19.04
707.5	V	12.64	0.8	0.51	12.35	34.77	-22.42
CH 23130							
711	H	17.62	0.8	0.51	17.33	34.77	-17.44
711	V	12.41	0.8	0.51	12.12	34.77	-22.65

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 13-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23205							
779.5	H	18.09	0.87	0.68	17.9	34.77	-16.87
779.5	V	12.25	0.87	0.68	12.06	34.77	-22.71
CH 23230							
782	H	18.99	0.87	0.68	18.8	34.77	-15.97
782	V	13.31	0.87	0.68	13.12	34.77	-21.65
CH 23255							
784.5	H	19.54	0.88	0.68	19.34	34.77	-15.43
784.5	V	13.77	0.88	0.68	13.57	34.77	-21.2

Band 13-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23205							
779.5	H	17.36	0.88	0.68	17.16	34.77	-17.61
779.5	V	11.42	0.88	0.68	11.22	34.77	-23.55
CH 23230							
782	H	17.86	0.88	0.68	17.66	34.77	-17.11
782	V	12.38	0.88	0.68	12.18	34.77	-22.59
CH 23255							
784.5	H	18.70	0.88	0.68	18.50	34.77	-16.27
784.5	V	12.83	0.88	0.68	12.63	34.77	-22.14

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 13-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23230							
782	H	19.31	0.87	0.68	19.12	34.77	-15.65
782	V	14.08	0.87	0.68	13.89	34.77	-20.88

Band 13-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23230							
782	H	18.49	0.87	0.68	18.30	34.77	-16.47
782	V	13.16	0.87	0.68	12.97	34.77	-21.80

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 17-5M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23755							
706.5	H	15.85	0.8	0.51	15.56	34.77	-19.21
706.5	V	15.26	0.8	0.51	14.97	34.77	-19.8
CH 23790							
710	H	17.03	0.8	0.51	16.74	34.77	-18.03
710	V	15.47	0.8	0.51	15.18	34.77	-19.59
CH 23825							
713.5	H	17.42	0.8	0.51	17.13	34.77	-17.64
713.5	V	13.94	0.8	0.51	13.65	34.77	-21.12

Band 17-5M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23755							
706.5	H	14.97	0.8	0.51	14.68	34.77	-20.09
706.5	V	14.28	0.8	0.51	13.99	34.77	-20.78
CH 23790							
710	H	15.75	0.8	0.51	15.46	34.77	-19.31
710	V	14.39	0.8	0.51	14.10	34.77	-20.67
CH 23825							
713.5	H	16.44	0.8	0.51	16.15	34.77	-18.62
713.5	V	12.86	0.8	0.51	12.57	34.77	-22.20

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Band 17-10M(QPSK)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23780							
709	H	15.67	0.8	0.51	15.38	34.77	-19.39
709	V	15.32	0.8	0.51	15.03	34.77	-19.74
CH 23790							
710	H	16.87	0.8	0.51	16.58	34.77	-18.19
710	V	15.27	0.8	0.51	14.98	34.77	-19.79
CH 23800							
711	H	16.71	0.8	0.51	16.42	34.77	-18.35
711	V	13.73	0.8	0.51	13.44	34.77	-21.33

Band 17-10M(16QAM)

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
CH 23780							
709	H	15.25	0.8	0.51	14.96	34.77	-19.81
709	V	14.80	0.8	0.51	14.51	34.77	-20.26
CH 23790							
710	H	16.05	0.8	0.51	15.76	34.77	-19.01
710	V	14.65	0.8	0.51	14.36	34.77	-20.41
CH 23800							
711	H	16.19	0.8	0.51	15.90	34.77	-18.87
711	V	13.11	0.8	0.51	12.82	34.77	-21.95

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Radiated Spurious Emission

Band 2-20M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 18700							
3720	H	-49.47	3.05	12.32	-40.2	-13	-27.2
5580	H	-59.66	4.02	13.02	-50.66	-13	-37.66
3720	H	-55.09	3.05	12.32	-45.82	-13	-32.82
5580	V	-59.14	4.02	13.02	-50.14	-13	-37.14
CH 18900							
3760	H	-49.27	3.05	12.32	-40	-13	-27
5640	H	-59.45	4.02	13.02	-50.45	-13	-37.45
3760	H	-55.02	3.05	12.32	-45.75	-13	-32.75
5640	V	-59.01	4.02	13.02	-50.01	-13	-37.01
CH 19100							
3800	H	-49.41	3.05	12.32	-40.14	-13	-27.14
5700	H	-59.41	4.02	13.02	-50.41	-13	-37.41
3800	H	-54.96	3.05	12.32	-45.69	-13	-32.69
5700	V	-58.51	4.02	13.02	-49.51	-13	-36.51

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 4-20M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20050							
3440	H	-56.34	3.05	12.32	-47.07	-13	-34.07
5160	H	-47.88	4.02	13.02	-38.88	-13	-25.88
3440	V	-57.07	3.05	12.32	-47.8	-13	-34.8
5160	V	-47.2	4.02	13.02	-38.2	-13	-25.2
CH 20175							
3465	H	-55.99	3.05	12.32	-46.72	-13	-33.72
5197.5	H	-47.57	4.02	13.02	-38.57	-13	-25.57
3465	V	-56.71	3.05	12.32	-47.44	-13	-34.44
5197.5	V	-47.02	4.02	13.02	-38.02	-13	-25.02
CH 20300							
3490	H	-55.58	3.05	12.32	-46.31	-13	-33.31
5235	H	-48.15	4.02	13.02	-39.15	-13	-26.15
3490	V	-56.72	3.05	12.32	-47.45	-13	-34.45
5235	V	-47.61	4.02	13.02	-38.61	-13	-25.61

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 5-10M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20450							
4145	H	-61.55	3.3	12.45	-52.4	-13	-39.4
4974	H	-45.36	3.7	12.43	-36.63	-13	-23.63
5803	H	-47.8	4.12	13	-38.92	-13	-25.92
4145	V	-60.51	3.3	12.45	-51.36	-13	-38.36
4974	V	-41.02	3.7	12.43	-32.29	-13	-19.29
5803	V	-55.97	4.12	13	-47.09	-13	-34.09
CH 20525							
4182.5	H	-61.91	3.3	12.45	-52.76	-13	-39.76
5019	H	-46.31	3.7	12.43	-37.58	-13	-24.58
5855.5	H	-48.84	4.12	13	-39.96	-13	-26.96
4182.5	V	-60.9	3.3	12.45	-51.75	-13	-38.75
5019	V	-41.55	3.7	12.43	-32.82	-13	-19.82
5855.5	V	-56.18	4.12	13	-47.3	-13	-34.3
CH 20600							
4220	H	-60.59	3.3	12.45	-51.44	-13	-38.44
5064	H	-45.04	3.7	12.43	-36.31	-13	-23.31
5908	H	-47.81	4.12	13	-38.93	-13	-25.93
4220	V	-60.16	3.3	12.45	-51.01	-13	-38.01
5064	V	-40.89	3.7	12.43	-32.16	-13	-19.16
5908	V	-55.07	4.12	13	-46.19	-13	-33.19

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 7-20M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 20850							
5020	H	-49.27	3.78	12.47	-40.58	-25	-15.58
7530	H	-49.51	5.22	11.12	-43.61	-25	-18.61
5020	V	-46.15	3.78	12.47	-37.46	-25	-12.46
7530	V	-51.59	5.22	11.12	-45.69	-25	-20.69
CH 21100							
5070	H	-47.32	3.78	12.47	-38.63	-25	-13.63
7605	H	-45.91	5.22	11.12	-40.01	-25	-15.01
5070	V	-47.27	3.78	12.47	-38.58	-25	-13.58
7605	V	-48.33	5.22	11.12	-42.43	-25	-17.43
CH 21350							
5120	H	-55.38	3.78	12.47	-46.69	-25	-21.69
7680	H	-49.92	5.22	11.12	-44.02	-25	-19.02
5120	V	-53.87	3.78	12.47	-45.18	-25	-20.18
7680	V	-52.26	5.22	11.12	-46.36	-25	-21.36

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 12-10M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 23060							
4224	H	-59.59	3.3	12.45	-50.44	-13	-37.44
4928	H	-44.87	3.7	12.43	-36.14	-13	-23.14
5632	H	-50.7	4.12	13	-41.82	-13	-28.82
4224	V	-60.79	3.3	12.45	-51.64	-13	-38.64
4928	V	-41.99	3.7	12.43	-33.26	-13	-20.26
5632	V	-53.72	4.12	13	-44.84	-13	-31.84
CH 23095							
4245	H	-64.26	3.3	12.45	-55.11	-13	-42.11
4952.5	H	-49.38	3.7	12.43	-40.65	-13	-27.65
5660	H	-55.52	4.12	13	-46.64	-13	-33.64
4245	V	-63.78	3.3	12.45	-54.63	-13	-41.63
4952.5	V	-46.59	3.7	12.43	-37.86	-13	-24.86
5660	V	-57.69	4.12	13	-48.81	-13	-35.81
CH 23130							
4266	H	-58.71	3.3	12.45	-49.56	-13	-36.56
4977	H	-45.12	3.7	12.43	-36.39	-13	-23.39
5688	H	-50.52	4.12	13	-41.64	-13	-28.64
4266	V	-60.22	3.3	12.45	-51.07	-13	-38.07
4977	V	-41.75	3.7	12.43	-33.02	-13	-20.02
5688	V	-54.07	4.12	13	-45.19	-13	-32.19

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 13-5M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 23205							
3897.5	H	-64.3	3.05	12.32	-55.03	-13	-42.03
4677	H	-47.14	3.61	12.4	-38.35	-13	-25.35
5456.5	H	-46.92	4.02	13.02	-37.92	-13	-24.92
3897.5	V	-66.16	3.05	12.32	-56.89	-13	-43.89
4677	V	-49.42	3.61	12.4	-40.63	-13	-27.63
5456.5	V	-47.65	4.02	13.02	-38.65	-13	-25.65
CH 23230							
3910	H	-65.53	3.05	12.32	-56.26	-13	-43.26
4692	H	-48.38	3.61	12.4	-39.59	-13	-26.59
5474	H	-47.05	4.02	13.02	-38.05	-13	-25.05
3910	V	-66.36	3.05	12.32	-57.09	-13	-44.09
4692	V	-49.13	3.61	12.4	-40.34	-13	-27.34
5474	V	-51.69	4.02	13.02	-42.69	-13	-29.69
CH 23255							
3922.5	H	-65.53	3.05	12.32	-56.26	-13	-43.26
4707	H	-48.24	3.61	12.4	-39.45	-13	-26.45
5491.5	H	-47.34	4.02	13.02	-38.34	-13	-25.34
3922.5	V	-67.94	3.05	12.32	-58.67	-13	-45.67
4707	V	-49.28	3.61	12.4	-40.49	-13	-27.49
5491.5	V	-51.92	4.02	13.02	-42.92	-13	-29.92

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

Band 17-10M

Frequency (MHz)	Ant. Pol. (H/V)	SA Reading (dBm)	Cable Loss (dB)	Substitute Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CH 23780							
4254	H	-59.09	3.3	12.45	-49.94	-13	-36.94
4963	H	-45.04	3.7	12.43	-36.31	-13	-23.31
5672	H	-51.38	4.12	13	-42.5	-13	-29.5
4254	V	-60.73	3.3	12.45	-51.58	-13	-38.58
4963	V	-42.09	3.7	12.43	-33.36	-13	-20.36
5672	V	-55.77	4.12	13	-46.89	-13	-33.89
CH 23790							
4260	H	-60.36	3.3	12.45	-51.21	-13	-38.21
4970	H	-46.6	3.7	12.43	-37.87	-13	-24.87
5680	H	-52.09	4.12	13	-43.21	-13	-30.21
4260	V	-61.98	3.3	12.45	-52.83	-13	-39.83
4970	V	-43.55	3.7	12.43	-34.82	-13	-21.82
5680	V	-56.88	4.12	13	-48	-13	-35
CH 23800							
4266	H	-60.6	3.3	12.45	-51.45	-13	-38.45
4977	H	-45.44	3.7	12.43	-36.71	-13	-23.71
5688	H	-51.44	4.12	13	-42.56	-13	-29.56
4266	V	-61.59	3.3	12.45	-52.44	-13	-39.44
4977	V	-42.7	3.7	12.43	-33.97	-13	-20.97
5688	V	-56.26	4.12	13	-47.38	-13	-34.38

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP (dBm) = SG (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBi)$

7.6. Peak-Average Ratio

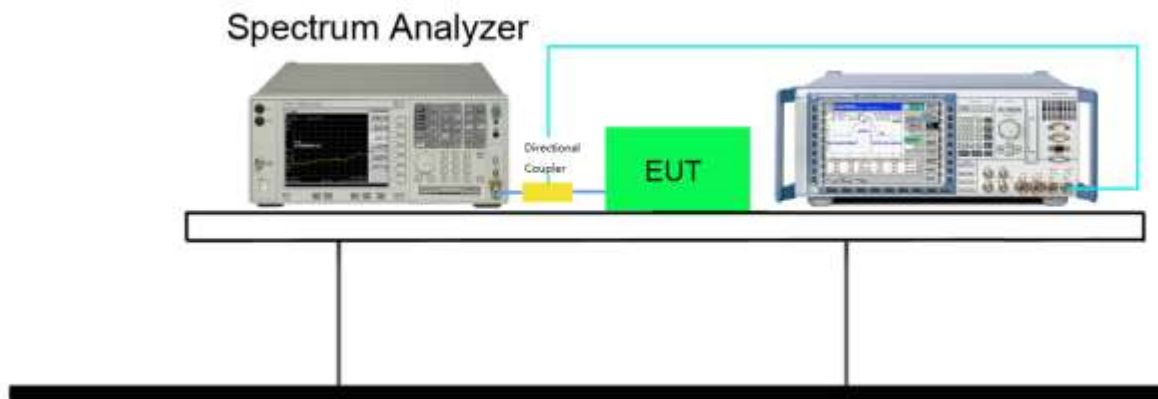
7.6.1 Test Limit

The transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

7.6.2 Test Procedure

KDB 971168 D01v03 - Section 5.7 & ANSI/TIA-603-E-2016

7.6.3 Test Setup



7.6.4 Test Result

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 2 (Middle Channel)	QPSK	18900/1880	1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS
	16QAM		1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 4 (Middle Channel)	QPSK	20175 /1732.5	1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS
	16QAM		1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS

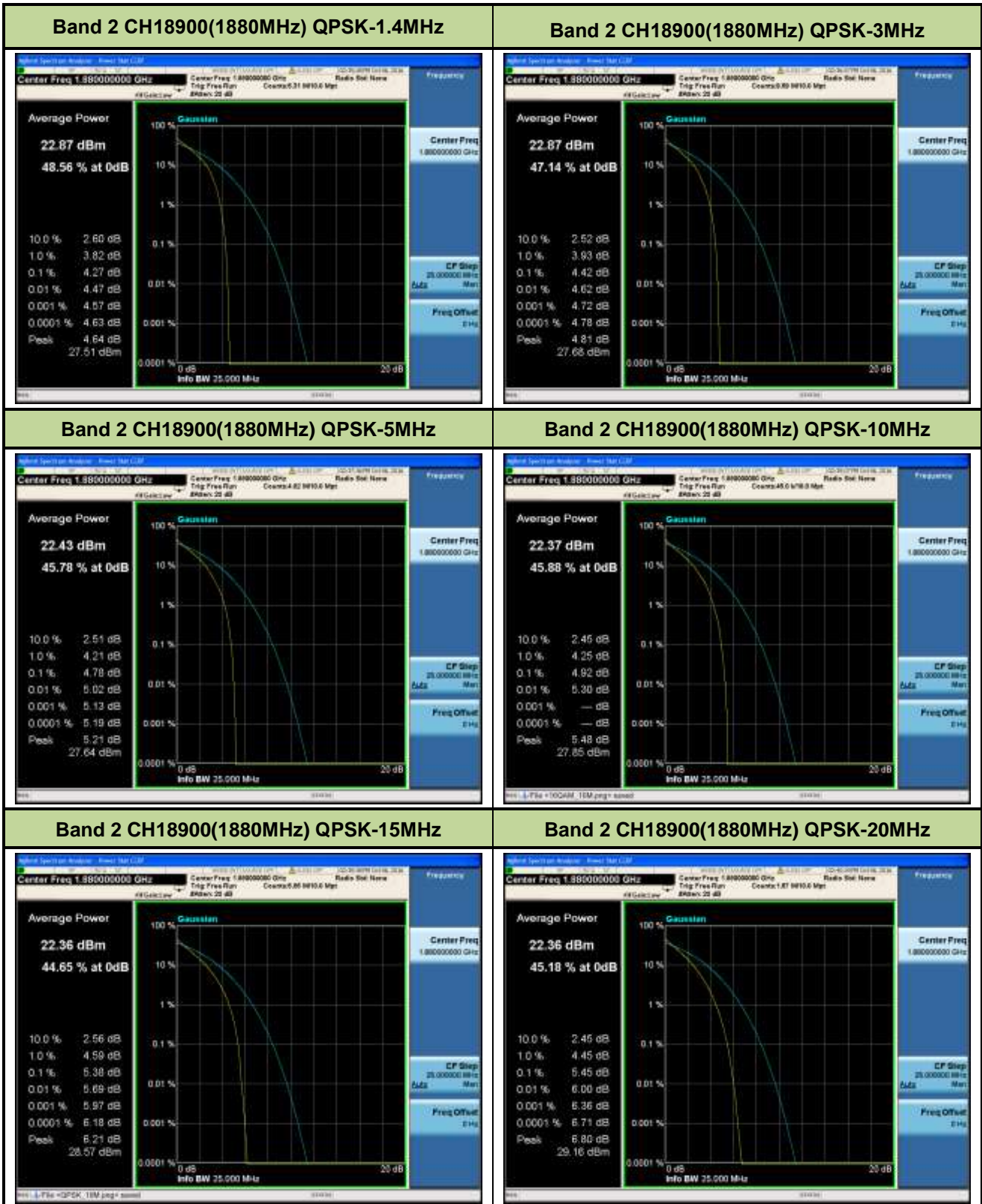
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 5 (Middle Channel)	QPSK	20525/836.5	1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
	16QAM		1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS

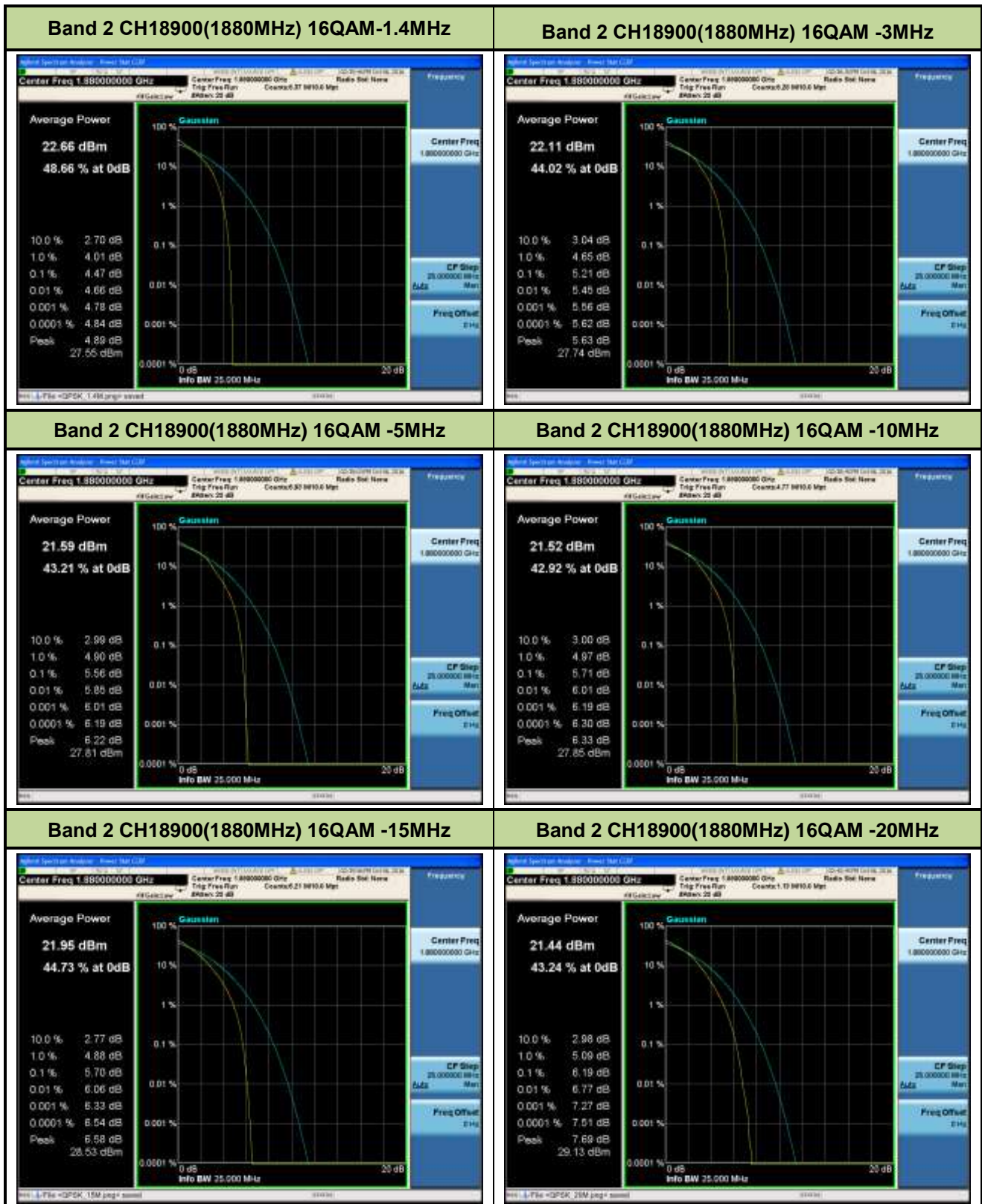
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 7 (Middle Channel)	QPSK	21100/2535	5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS
	16QAM		5	1	12	13	PASS
			10	1	25	13	PASS
			15	1	36	13	PASS
			20	1	49	13	PASS

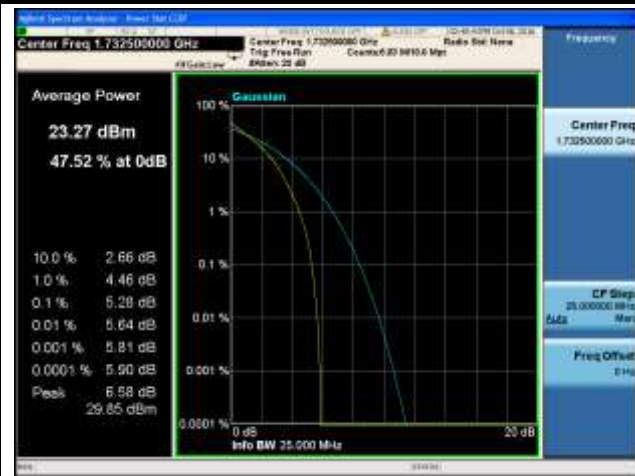
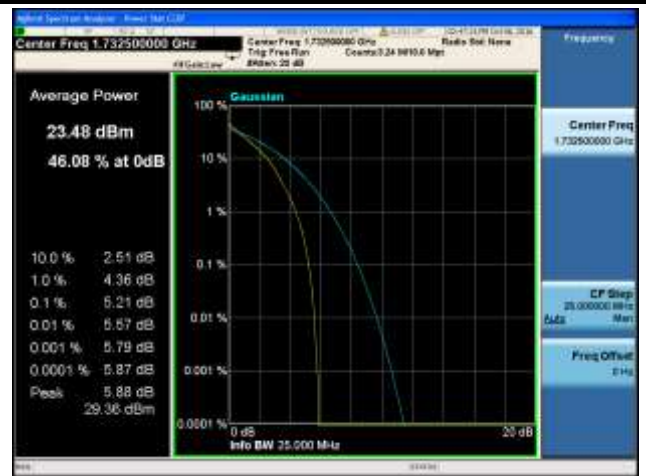
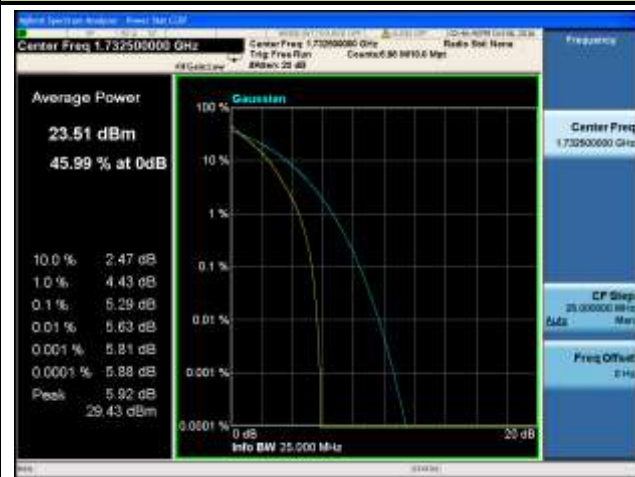
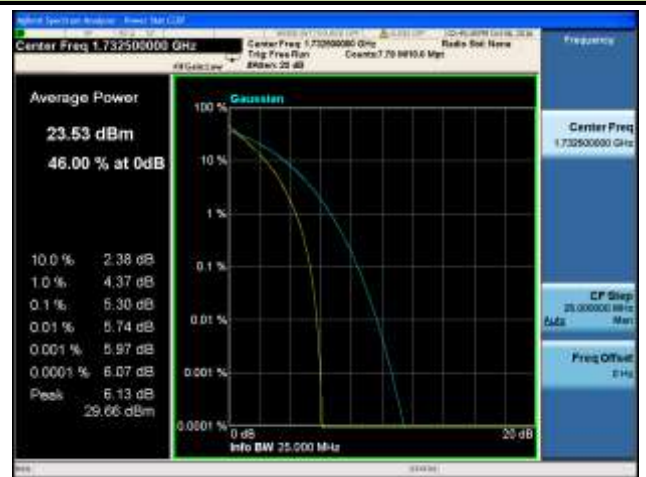
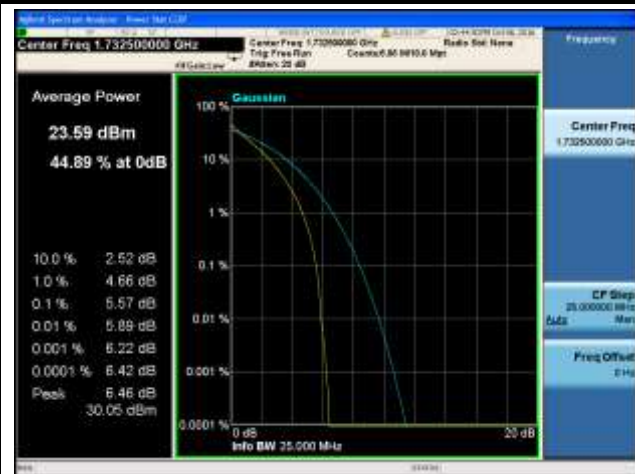
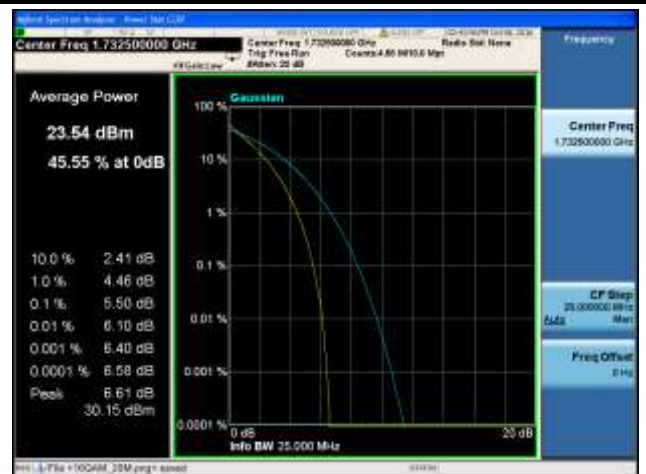
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 12 (Middle Channel)	QPSK	23095/707.5	1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS
	16QAM		1.4	1	2	13	PASS
			3	1	7	13	PASS
			5	1	12	13	PASS
			10	1	25	13	PASS

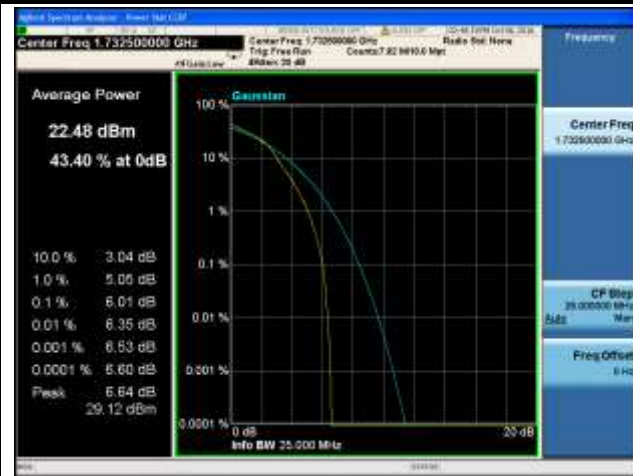
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 13 (Middle Channel)	QPSK	23230/782	5	1	12	13	PASS
			10	1	25	13	PASS
	16QAM		5	1	12	13	PASS
			10	1	25	13	PASS

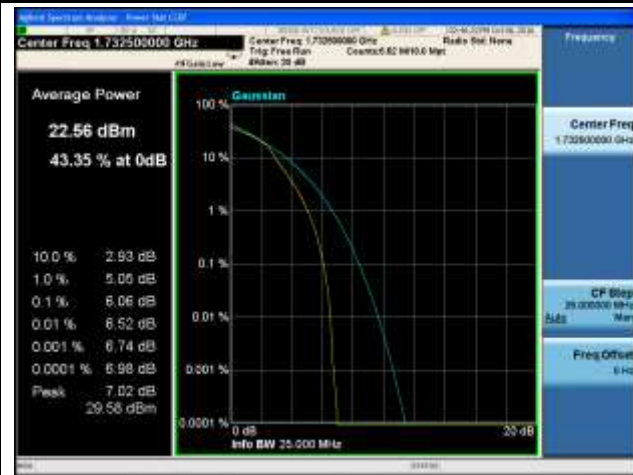
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Limit (dBm)	Result
LTE Band 17 (Middle Channel)	QPSK	23790/710	5	1	12	13	PASS
			10	1	25	13	PASS
	16QAM		5	1	12	13	PASS
			10	1	25	13	PASS

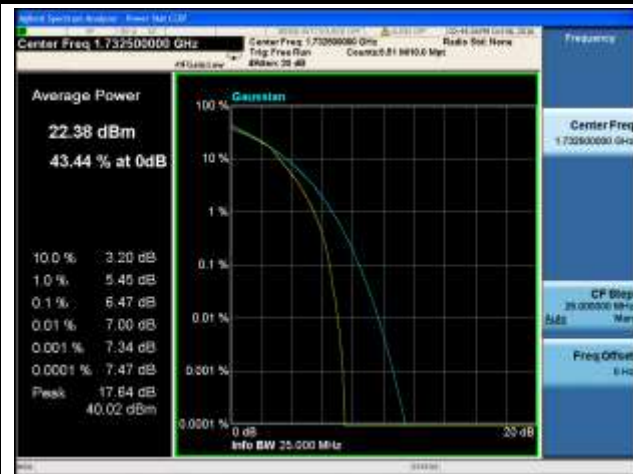
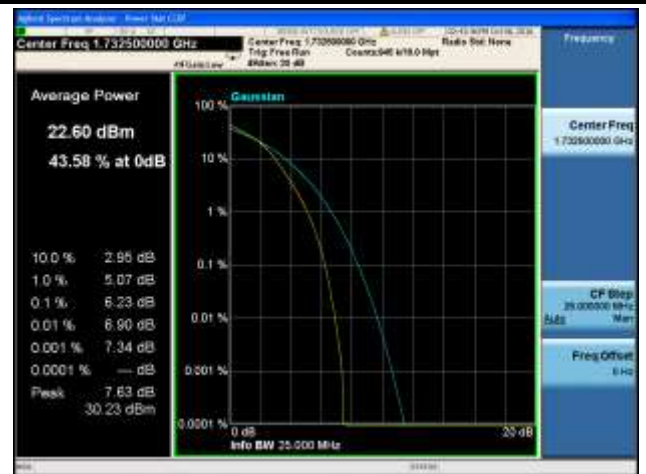




Band 4 CH20175(1732.5MHz) QPSK-1.4MHz

Band 4 CH20175(1732.5MHz) QPSK-3MHz

Band 4 CH20175(1732.5MHz) QPSK-5MHz

Band 4 CH20175(1732.5MHz) QPSK-10MHz

Band 4 CH20175(1732.5MHz) QPSK-15MHz

Band 4 CH20175(1732.5MHz) QPSK-20MHz


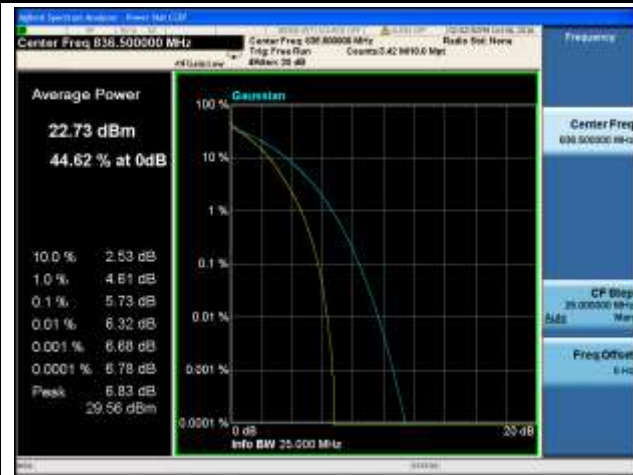
Band 4 CH20175(1732.5MHz) 16QAM-1.4MHz

Band 4 CH20175(1732.5MHz) 16QAM -3MHz

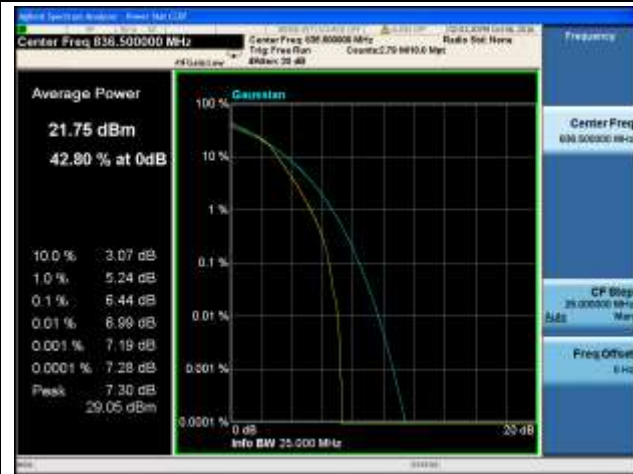
Band 4 CH20175(1732.5MHz) 16QAM -5MHz

Band 4 CH20175(1732.5MHz) 16QAM -10MHz

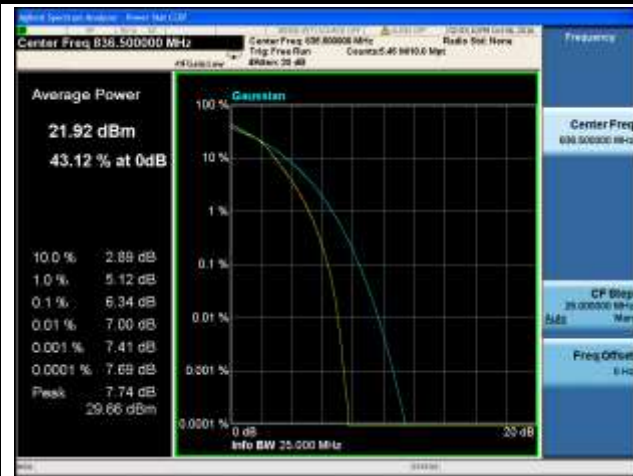
Band 4 CH20175(1732.5MHz) 16QAM -15MHz

Band 4 CH20175(1732.5MHz) 16QAM -20MHz


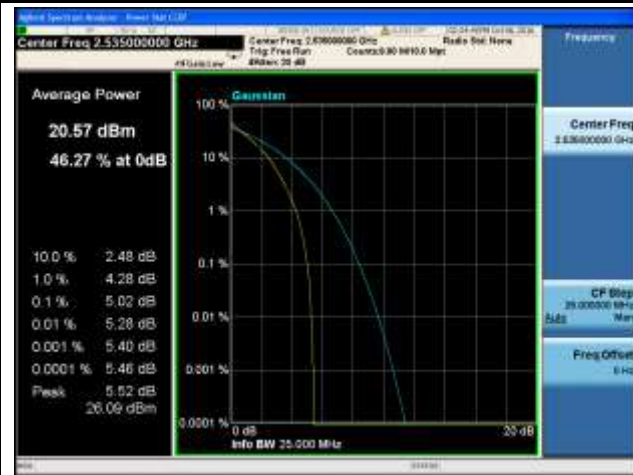
Band 5 CH20525(836.5MHz) QPSK-1.4MHz

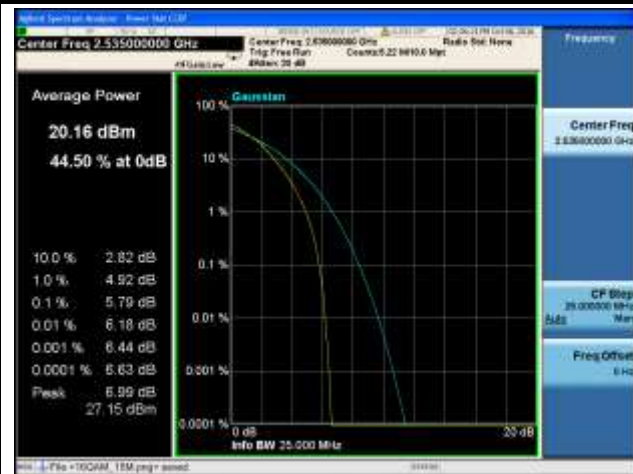
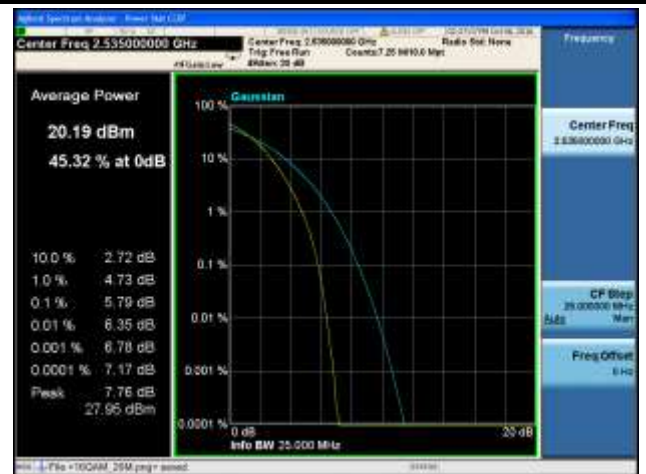
Band 5 CH20525(836.5MHz) QPSK-3MHz

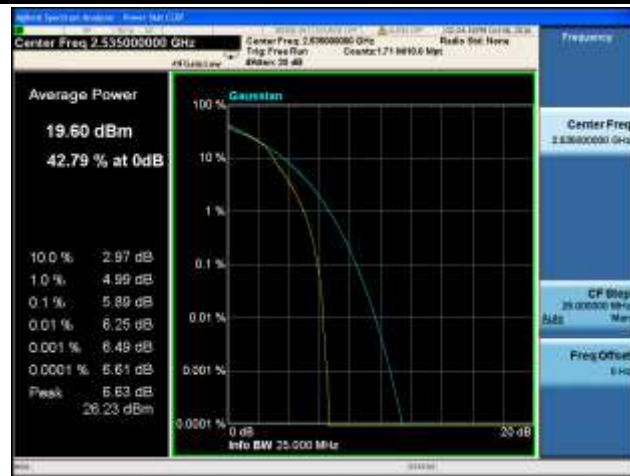
Band 5 CH20525(836.5MHz) QPSK-5MHz

Band 5 CH20525(836.5MHz) QPSK-10MHz

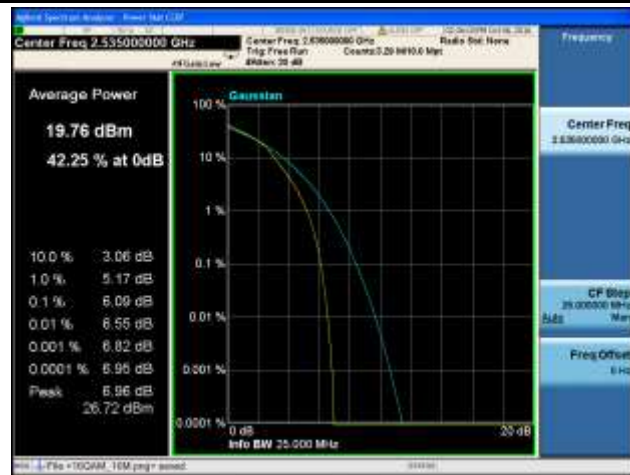
Band 5 CH20525(836.5MHz) 16QAM-1.4MHz

Band 5 CH20525(836.5MHz) 16QAM-3MHz


Band 5 CH20525(836.5MHz) 16QAM-5MHz

Band 5 CH20525(836.5MHz) 16QAM-10MHz

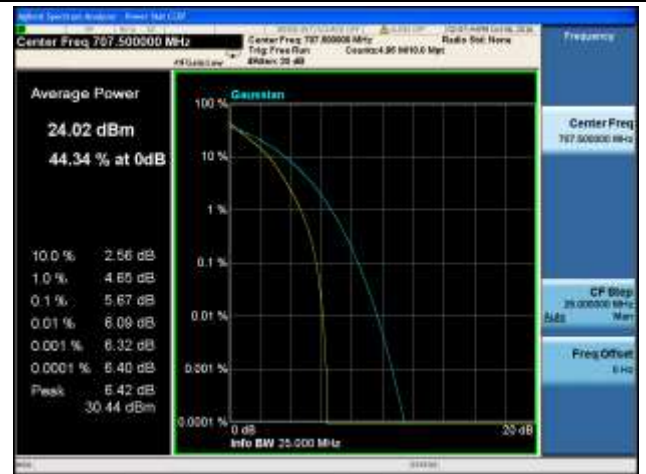
Band 7 CH21100(2535MHz) QPSK-5MHz

Band 7 CH21100(2535MHz) QPSK-10MHz

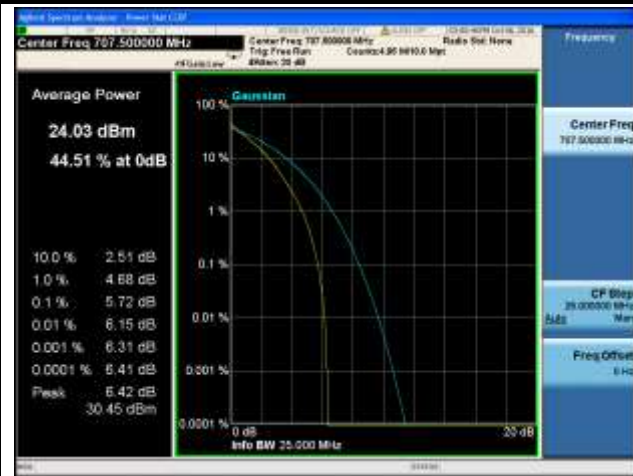
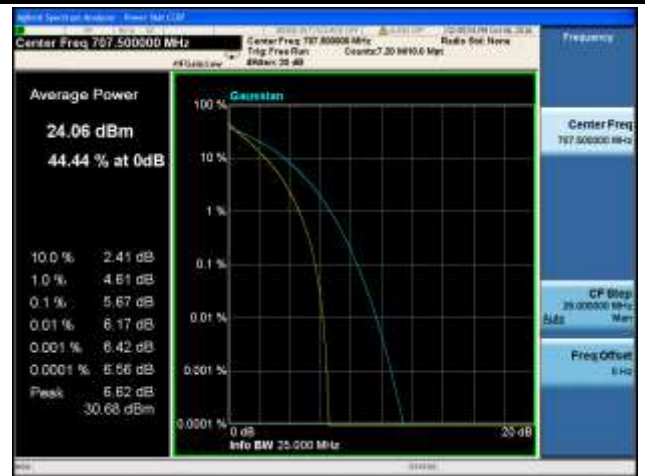
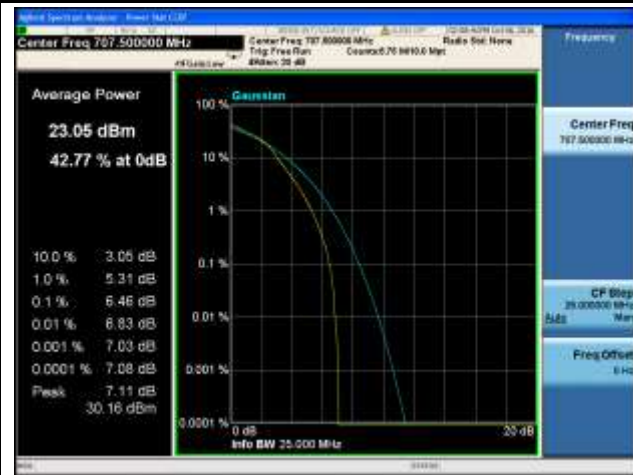
Band 7 CH21100(2535MHz) QPSK-15MHz

Band 7 CH21100(2535MHz) QPSK-20MHz


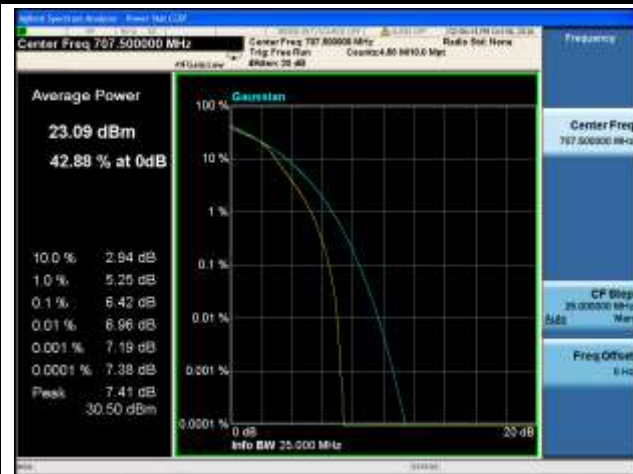
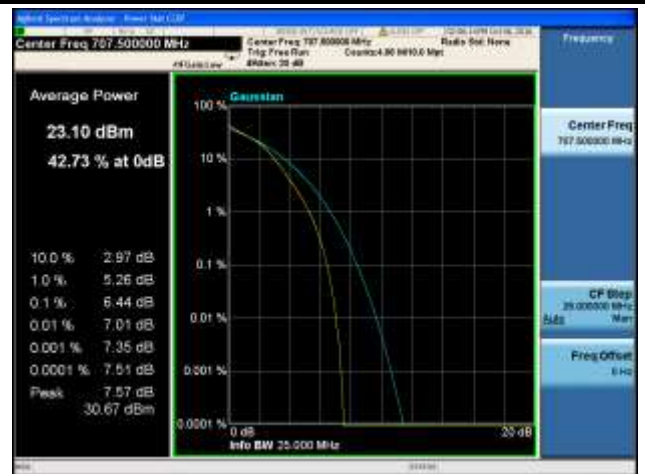
Band 7 CH21100(2535MHz) 16QAM-5MHz

Band 7 CH21100(2535MHz) 16QAM-10MHz

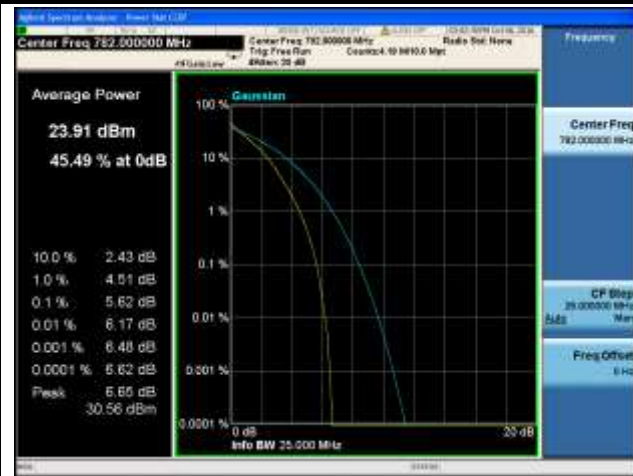
Band 7 CH21100(2535MHz) 16QAM-15MHz

Band 7 CH21100(2535MHz) 16QAM-20MHz

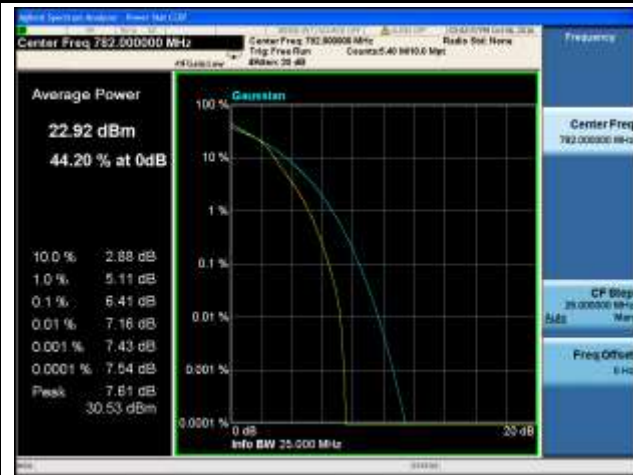
Band 12 CH23095(707.5MHz) QPSK-1.4MHz

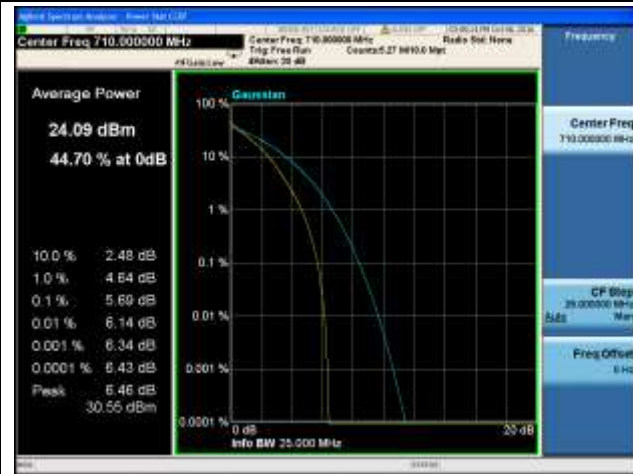
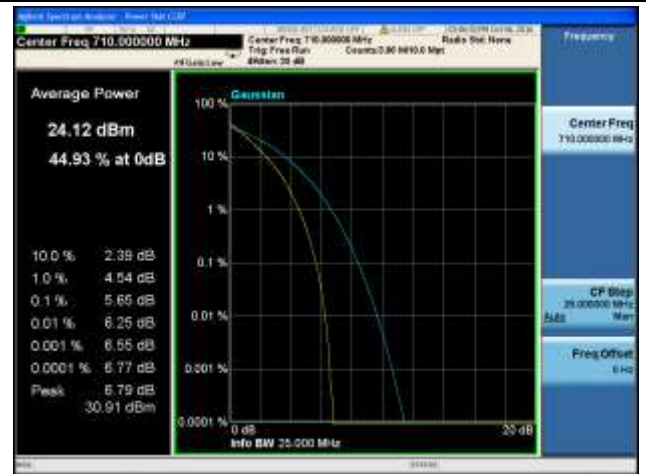
Band 12 CH23095(707.5MHz) QPSK-3MHz


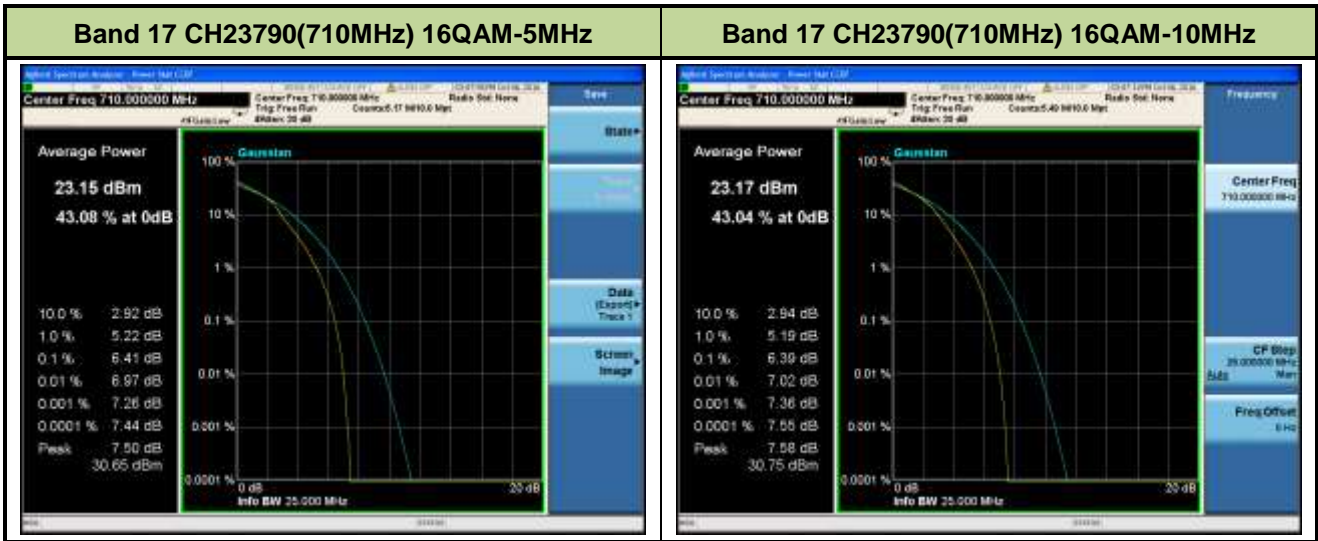
Band 12 CH23095(707.5MHz) QPSK-5MHz

Band 12 CH23095(707.5MHz) QPSK-10MHz

Band 12 CH23095(707.5MHz) 16QAM-1.4MHz

Band 12 CH23095(707.5MHz) 16QAM -3MHz

Band 12 CH23095(707.5MHz) 16QAM-5MHz

Band 12 CH23095(707.5MHz) 16QAM -10MHz


Band 13 CH23230(782MHz) QPSK-5MHz

Band 13 CH23230(782MHz) QPSK-10MHz

Band 13 CH23230(782MHz) 16QAM-5MHz

Band 13 CH23230(782MHz) 16QAM-10MHz

Band 17 CH23790(710MHz) QPSK-5MHz

Band 17 CH23790(710MHz) QPSK-10MHz




7.7. Frequency Stability Under Temperature & Voltage Variations

7.7.1 Test Limit

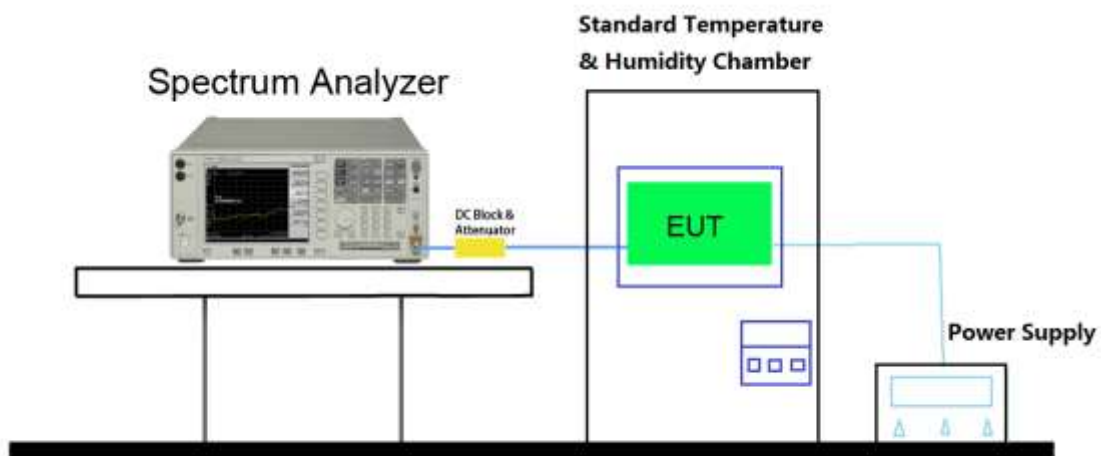
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit	$< \pm 2.5$ ppm
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7.7.2 Test Procedure

KDB 971168 D01v03 - Section 9 & ANSI/TIA-603-E-2016

7.7.3 Test Setup



7.7.4 Test Result

Operating Frequency	1880MHz
Channel	18900
Test Mode	Band 2
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0021	4.7
100%		40	0.0013	4.7
100%		30	0.0044	4.7
100%		20	0.0076	4.7
100%		10	0.0023	4.7
100%		0	0.0053	4.7
100%		-10	0.0045	4.7
100%		-20	0.0053	4.7
100%		-30	0.0077	4.7
115%		4.26	30	0.0012
End Point	3.40	30	0.0053	4.7

Operating Frequency	1732.5MHz
Channel	20175
Test Mode	Band 4
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0023	4.3
100%		40	0.0053	4.3
100%		30	0.0058	4.3
100%		20	0.0053	4.3
100%		10	0.0013	4.3
100%		0	0.0066	4.3
100%		-10	0.0023	4.3
100%		-20	0.0065	4.3
100%		-30	0.0013	4.3
115%		4.26	30	0.0053
End Point	3.40	30	0.0064	4.3

Operating Frequency	836.5MHz
Channel	20525
Test Mode	Band 5
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0035	2.09
100%		40	0.0022	2.09
100%		30	0.0082	2.09
100%		20	0.0028	2.09
100%		10	0.0058	2.09
100%		0	0.0014	2.09
100%		-10	0.0048	2.09
100%		-20	0.0013	2.09
100%		-30	0.0053	2.09
115%		4.26	30	0.0024
End Point	3.40	30	0.0055	2.09

Operating Frequency	2535MHz
Channel	21100
Test Mode	Band 7
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0022	6.33
100%		40	0.0053	6.33
100%		30	0.0058	6.33
100%		20	0.0084	6.33
100%		10	0.0013	6.33
100%		0	0.0045	6.33
100%		-10	0.0085	6.33
100%		-20	0.0028	6.33
100%		-30	0.0054	6.33
115%		4.26	30	0.0058
End Point	3.40	30	0.0022	6.33

Operating Frequency	707.5MHz
Channel	23095
Test Mode	Band 12
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0025	1.76
100%		40	0.0037	1.76
100%		30	0.0055	1.76
100%		20	0.0059	1.76
100%		10	0.0082	1.76
100%		0	0.0044	1.76
100%		-10	0.0018	1.76
100%		-20	0.0053	1.76
100%		-30	0.0032	1.76
115%		4.26	30	0.0055
End Point	3.40	30	0.0038	1.76

Operating Frequency	782MHz
Channel	23230
Test Mode	Band 13
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0034	1.95
100%		40	0.0083	1.95
100%		30	0.0082	1.95
100%		20	0.0038	1.95
100%		10	0.0048	1.95
100%		0	0.0016	1.95
100%		-10	0.0044	1.95
100%		-20	0.0084	1.95
100%		-30	0.0028	1.95
115%		4.26	30	0.0024
End Point	3.40	30	0.0082	1.95

Operating Frequency	710MHz
Channel	23790
Test Mode	Band 17
Reference Voltage	DC 3.7V

Voltage (%)	Power (DC)	TEMP (°C)	Freq. Dev. (kHz)	Limit (kHz)
100%	3.7V	50	0.0058	1.77
100%		40	0.0067	1.77
100%		30	0.0024	1.77
100%		20	0.0095	1.77
100%		10	0.0082	1.77
100%		0	0.0058	1.77
100%		-10	0.0053	1.77
100%		-20	0.0018	1.77
100%		-30	0.0025	1.77
115%		4.26	30	0.0035
End Point	3.40	30	0.0052	1.77

————— The End —————