



Test Report

Product Name : BRS/EBS Transceiver
Model No. : TRX-221
FCC ID. : OUP890200801

Applicant : TRANSYSTEM INC.

Address : No.1-2, Li-Hsin Rd. 1, Science-Based Industrial
Park, Hsinchu, Taiwan R.O.C.

Date of Receipt : 2011/12/07
Issued Date : 2012/01/20
Report No. : 11C179R-RFUSP35V01
Report Version : V2.0

The test results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : 2012/01/20

Report No. : 11C179R-RFUSP35V01



Product Name : BRS/EBS Transceiver
 Applicant : TRANSYSTEM INC.
 Address : No.1-2, Li-Hsin Rd. 1, Science-Based Industrial Park,
 Hsinchu, Taiwan R.O.C.
 Manufacturer : TRANSYSTEM INC.
 Model No. : TRX-221
 FCC ID. : OUP890200801
 EUT Voltage : AC 120V / 60Hz
 Trade Name : TSI
 Applicable Standard : FCC CFR Title 47 Part 2 and Part 27: 2010
 Test Result : Complied

The test results relate only to the samples tested.

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Documented By : Sandy Chuang
 (Sandy Chuang / Adm. Specialist)
 Reviewed By : Ben Huang
 (Ben Huang / Engineer)
 Approved By : Roy Wang
 (Roy Wang / Manager)

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1. General Information

1.1. EUT Description

Product Name	BRS/EBS Transceiver
Trade Name	TSI
Model No.	TRX-221
Frequency Range	2657 - 2690MHz
Modulation Type	QPSK, 16QAM
Antenna Gain	1.97dBi
Channel Control	AUTO
Antenna Type	Dipole

Upstream Symbol Rate (ksps)	QPSK Data Rate (kbps)	16QAM Data Rate (kbps)	Bandwidth Used (kHz)
160	320	640	200
320	640	1280	400
640	1280	2560	800
1280	2560	5120	1600
2560	5120	10240	3200

Note:

1. This device is a BRS/EBS Transceiver included a 2.5GHz receiving function, and 2.6GHz transmitting function which operating in BRS H-block 2657-2673.5 MHz EBS G-block 2673.5-2690 MHz.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 27.
3. Regards to the frequency band operation; the highest rate that was included the lowest 、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 11C179R-RFUSP37V02 under Declaration of Conformity.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were evaluated with the EUT in normal operation, which was shown in this test report and defined as below:

Evaluated Mode (Uplink)		
	Bandwidth(kHz)	Modulation
Mode 1: Transmit	200	QPSK
		16QAM
Mode 2: Transmit	400	QPSK
		16QAM
Mode 3: Transmit	800	QPSK
		16QAM
Mode 4: Transmit	1600	QPSK
		16QAM
Mode 5: Transmit	3200	QPSK
		16QAM

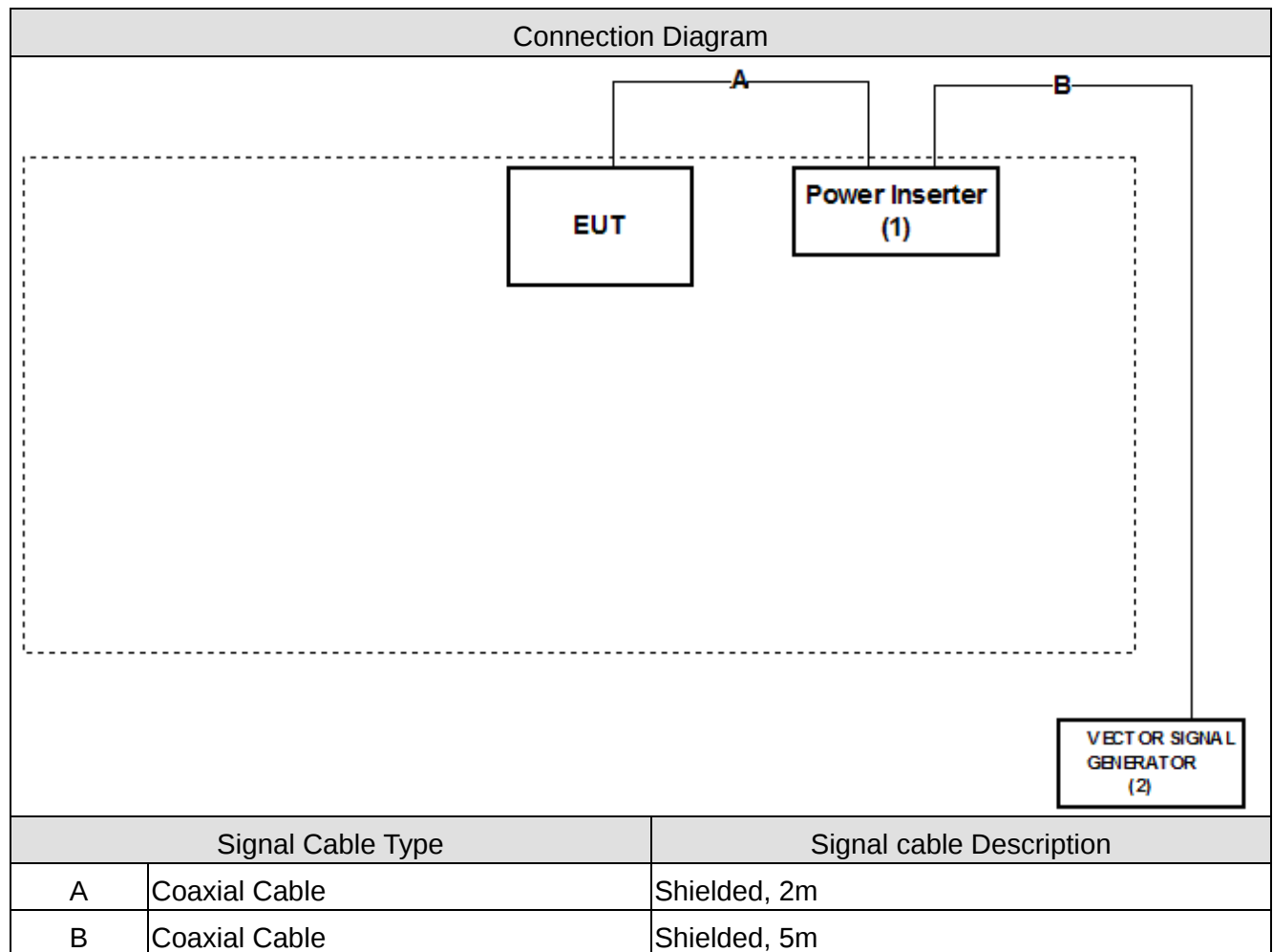
Final Test Mode & Test Item (Uplink)		
Test Item	QPSK	16 QAM
Peak Output Power	MODE 1 、 MODE 5	MODE 1 、 MODE 5
Band Edge	--	MODE 1 、 MODE 5
Occupied Bandwidth	MODE 1 、 MODE 2 MODE 3 、 MODE 4 MODE 5	MODE 1 、 MODE 2 MODE 3 、 MODE 4 MODE 5
Conducted Spurious Emission	--	MODE 1 、 MODE 5
Radiated Spurious Emission	--	MODE 1 、 MODE 5
Frequency Stability Over Temperatures Variation	Carrier Frequency	
Frequency Stability Over Voltage Variation	Carrier Frequency	
AC Conducted Emission	--	MODE 1 、 MODE 5

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1 Power Inserter	TRANSYSTEM INC.	M79102	N/A	DoC	N/A
2 VECTOR SIGNAL GENERATOR	R&S	SMU200A	102168	DoC	Non-Shielded, 1m

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and VSG (Modulation Source) as shown on 1.5.
2	Turn on the power of EUT and VSG.
3	Data will transmit continuously from VSG to EUT.
4	All the peripheral will be retrieved during the test
5	Repeat the above procedure (3) to (4)

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 2.1046 and PART 27.50(i) Peak Output Power	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1049 Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1051 and PART 27.53(m) Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1051 and PART 27.53(m) Conducted Spurious Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1051 and PART 27.53(m) Radiated Spurious Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1055(a)(l) and PART 27.54 Frequency Stability Over Temperature Variation	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 2.1055(d) and PART 27.54 Frequency Stability Over Voltage Variation	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.207 AC Conducted Emission	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description: September 27, 2010 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2013



Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2012



Site Name: Quietek Corporation
Site Address: No. 75-2, 3rd Lin, Wangye Keng, Yonghxing
Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan
TEL : 886-3-5928858 / FAX : 886-3-5928859
E-Mail : service@quietek.com

2. Peak Output Power

2.1. Test Equipment

The following test equipments are used during the test:

Conducted peak power / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/01/16

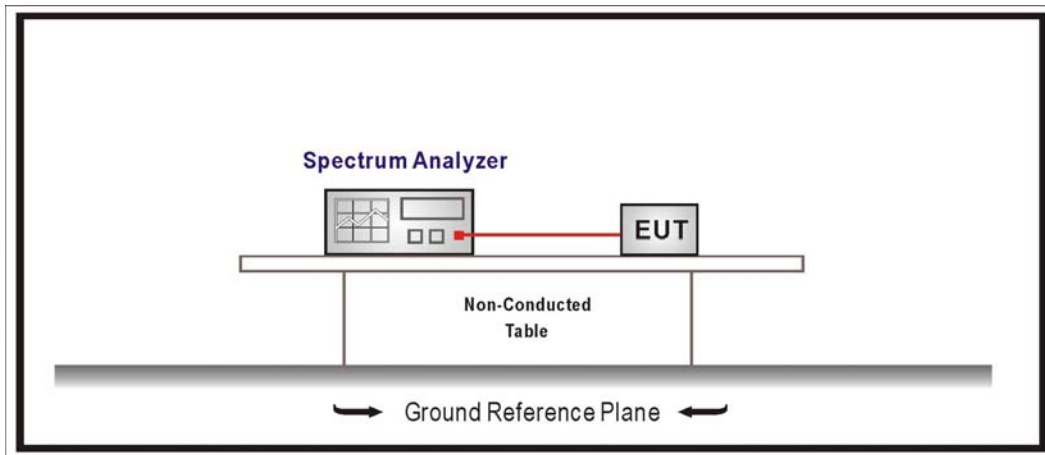
E.I.R.P peak power / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2012/02/24
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/01/08
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/03/21

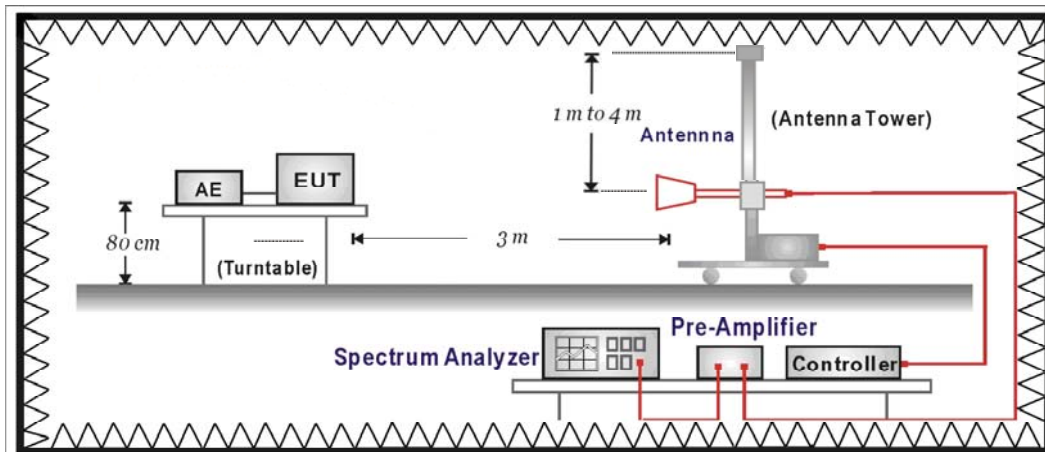
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup

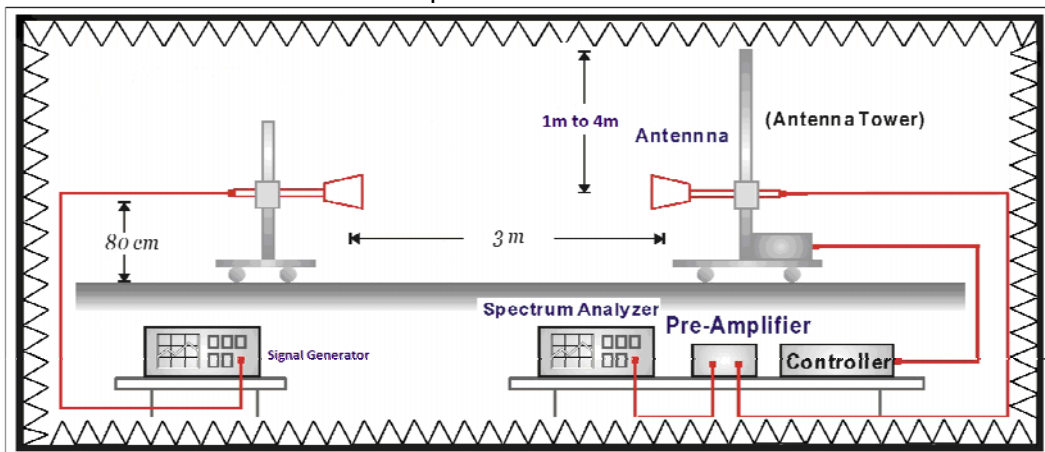
RF Conducted Measurement:



RF Radiated Measurement:



Substitution Measurement Setup:



2.3. Limits

(1) Main, Booster and Base Stations: Maximum E.I.R.P shall not exceed $33 \text{ dBW} + 10\log(X/Y)$ dBW, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.

(2) Mobile and Other User Stations: 2.0 Watts EIRP.

2.4. Test Procedure

The conducted peak output power is measured using R&S Spectrum Analyzer. The EUT was set up for the rated peak power. All measurements were done at 3 channels: low, middle and high operational frequency range.

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

$$\text{E.I.R.P} = \text{Reading Level} + \text{Correct Factor} = \text{S.G.} - \text{Cable Loss} + \text{Antenna Gain}$$

2.5. Uncertainty

The measurement uncertainty is defined as $\pm 1.27 \text{ dB}$

2.6. Test Result

Product	BRS/EBS Transceiver		
Test Item	Conducted Peak Output Power		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

Upstream Symbol Rate (ksps)	Test Mode	QPSK			16QAM		
		2659MHz	2671.5MHz	2687MHz	2659.0MHz	2671.5MHz	2687.0MHz
160	Mode 1	23.86dBm	23.92dBm	23.93dBm	25.04dBm	23.84dBm	23.82dBm
320	Mode 2	23.92dBm	24.00dBm	23.91dBm	24.02dBm	23.73dBm	23.82dBm
640	Mode 3	23.63dBm	23.67dBm	23.58dBm	23.71dBm	23.67dBm	23.66dBm
1280	Mode 4	23.91dBm	23.91dBm	23.90dBm	24.00dBm	23.74dBm	23.81dBm
2560	Mode 5	23.95dBm	24.03dBm	23.93dBm	25.50dBm	23.85dBm	23.84dBm

Test Mode: Mode 1

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 160 ksps



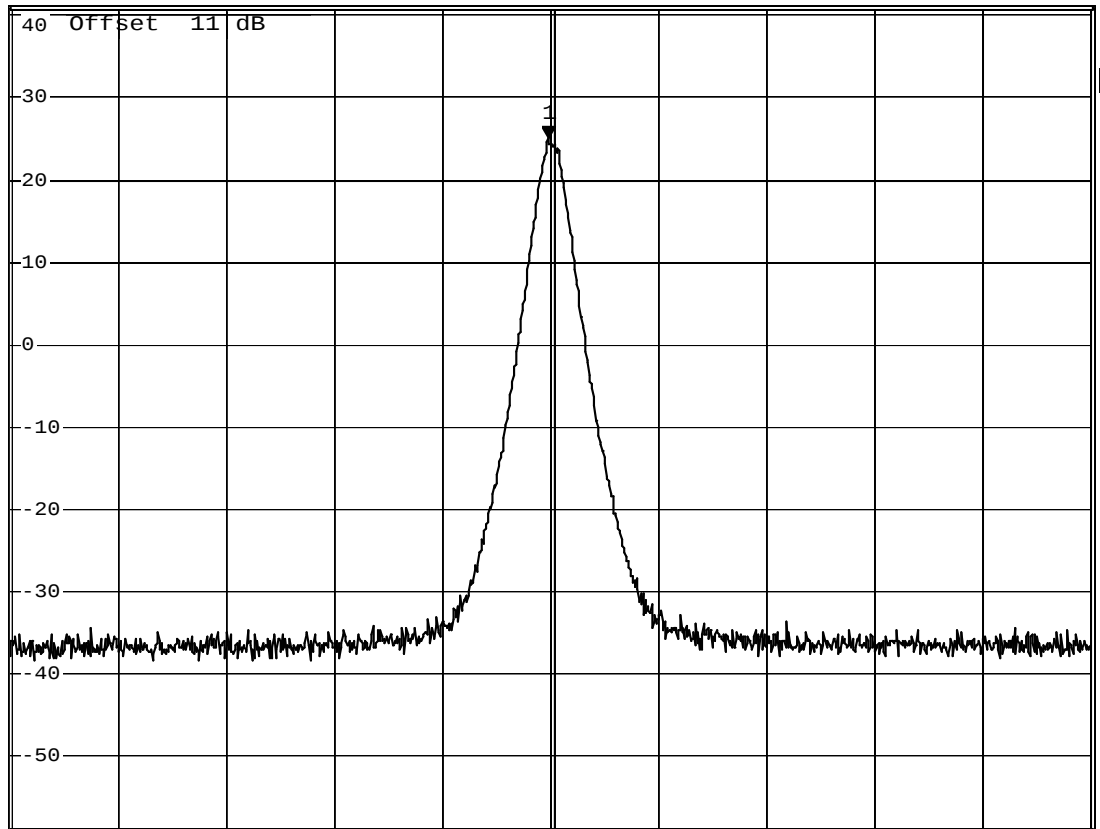
*RBW 300 kHz Marker 1 [T1]

*VBW 1 MHz 25.04 dBm

*SWT 100 ms 2.658960000 GHz

Ref 41 dBm

*Att 40 dB



Center 2.659 GHz

2 MHz/

Span 20 MHz

Comment: A:\2

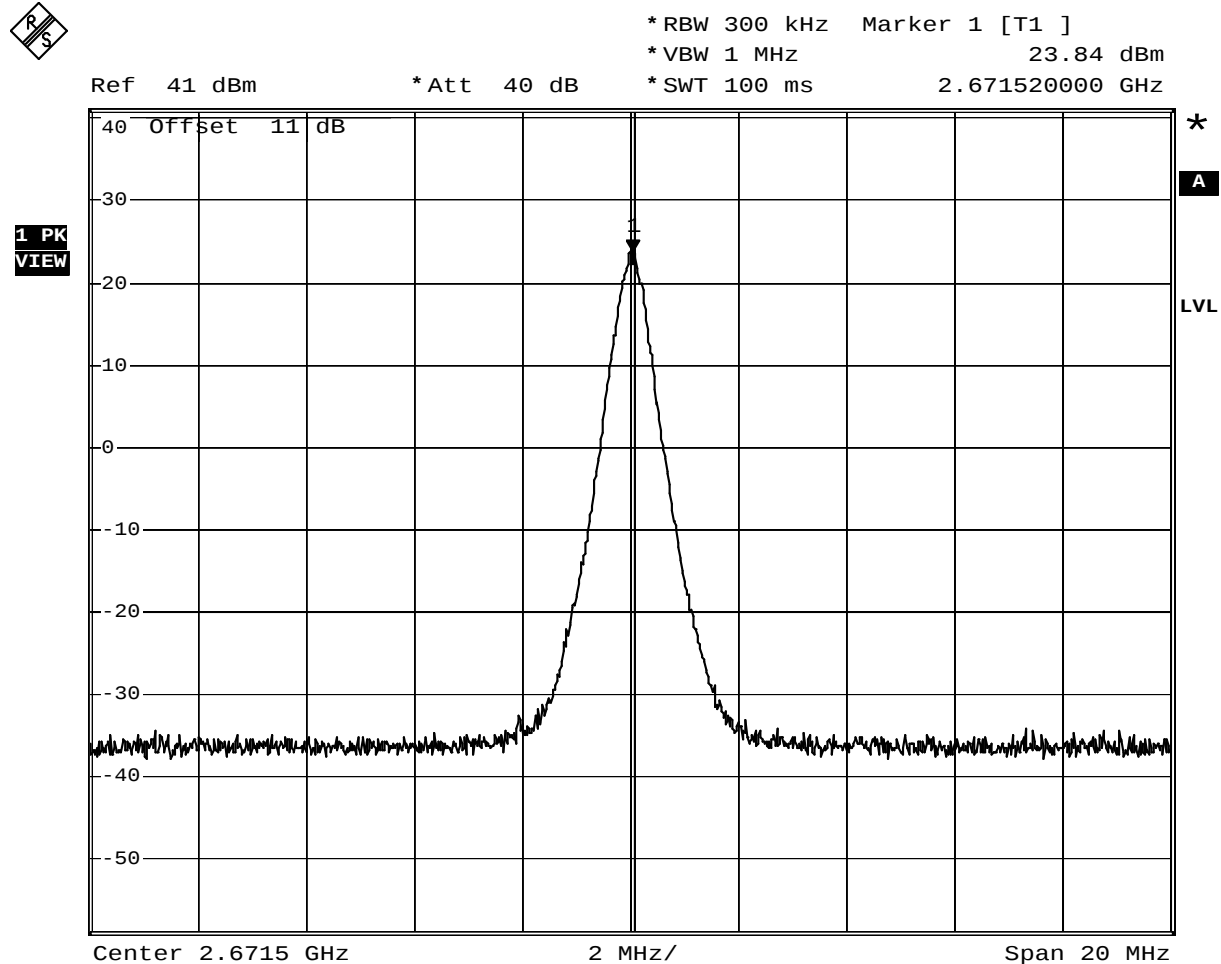
Date: 20.JAN.2012 11:54:16

Test Mode: Mode 1

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 160 ksp/s



Comment: A:\2

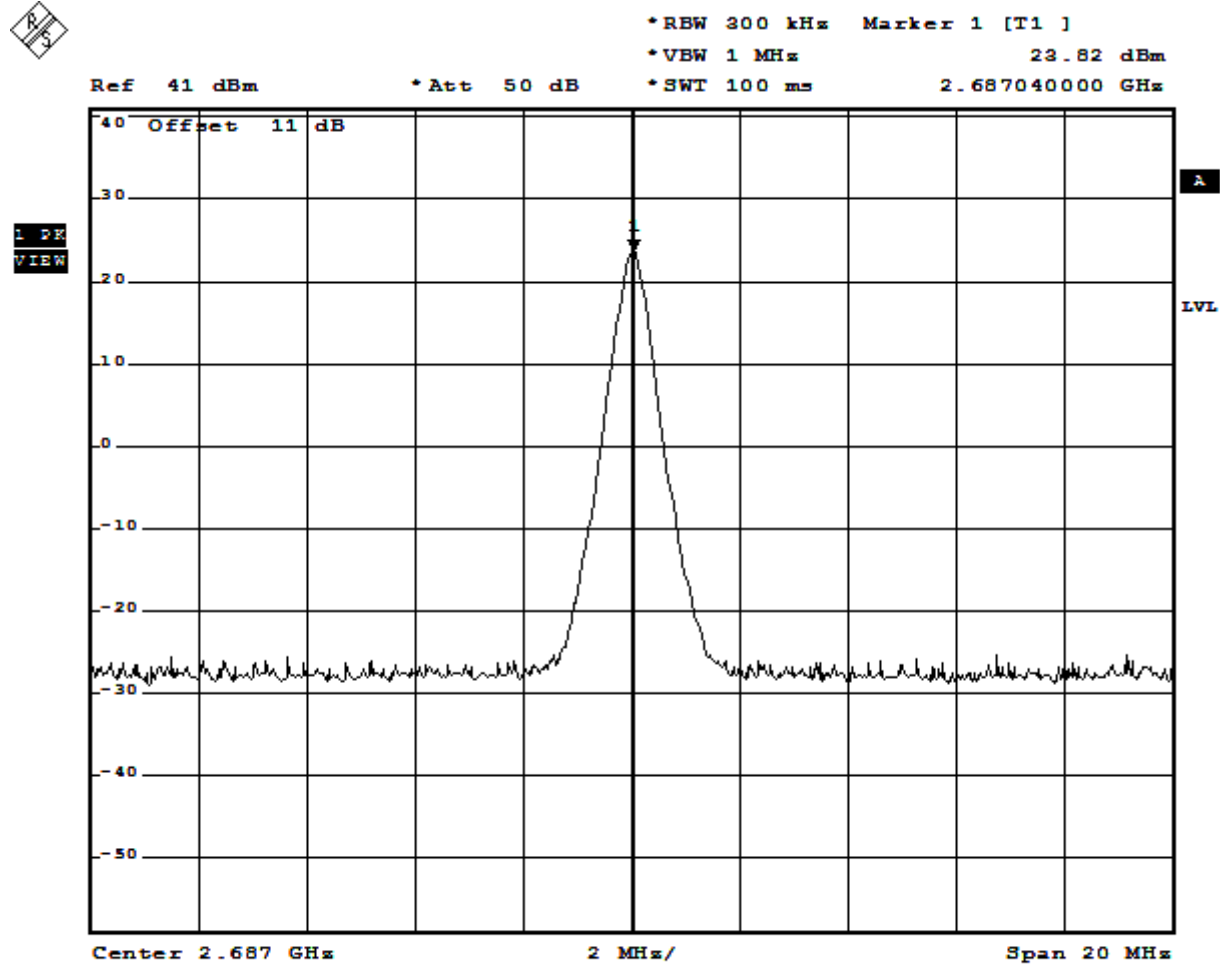
Date: 20.JAN.2012 11:55:31

Test Mode: Mode 1

Modulation Type: 16QAM

2687.0 MHz

Upstream Symbol Rate: 160 kps



Comment: A:\2

Date: 13.DEC.2011 15:51:54

Test Mode: MODE 5

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 2560 ksps



*RBW 10 MHz Marker 1 [T1]
 *VBW 10 MHz 25.50 dBm
 *SWT 100 ms 2.659480000 GHz

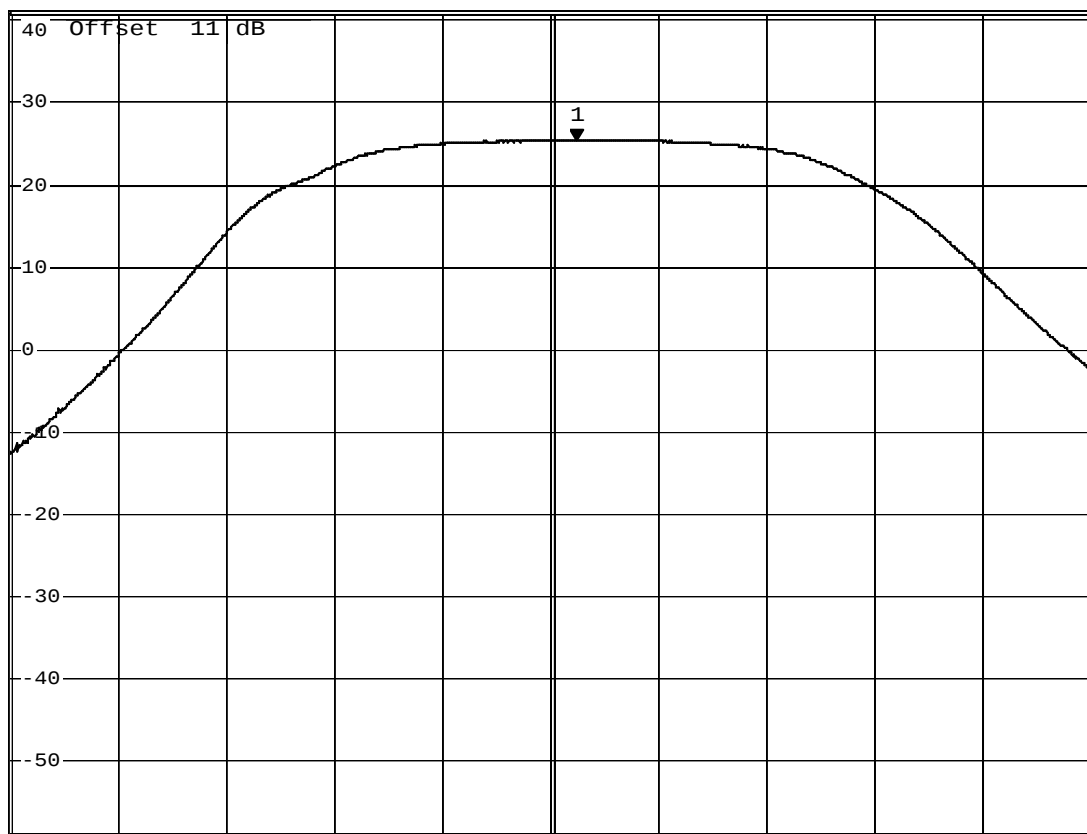
Ref 41 dBm

*Att 40 dB

*SWT 100 ms

2.659480000 GHz

1 PK
VIEW



Center 2.659 GHz

2 MHz/

Span 20 MHz

Comment: A:\2

Date: 20.JAN.2012 11:52:55

Test Mode: MODE 5

Modulation Type: 16QAM

2671.5 MHz

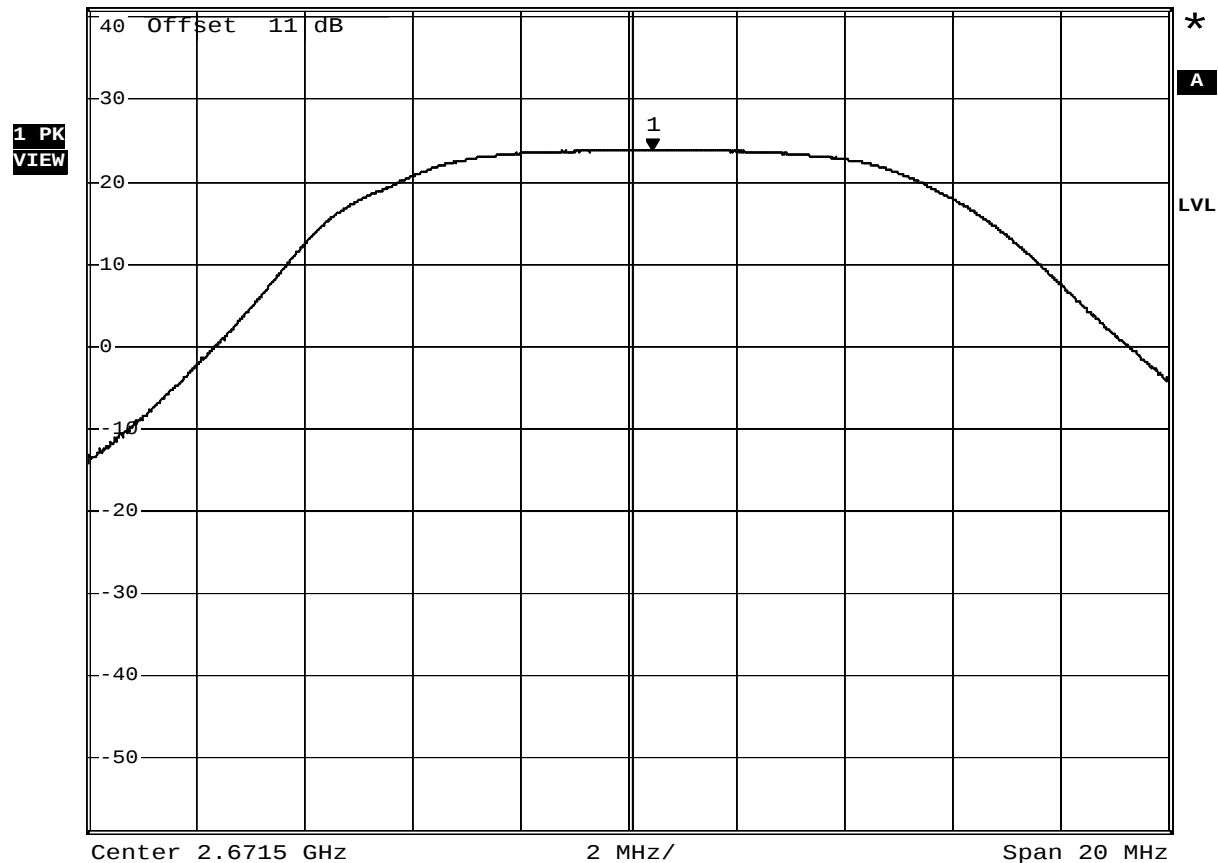
Upstream Symbol Rate: 2560 kps



*RBW 10 MHz Marker 1 [T1]
 *VBW 10 MHz 23.85 dBm
 *SWT 100 ms 2.671940000 GHz

Ref 41 dBm

*Att 40 dB



Comment: A:\2

Date: 20.JAN.2012 11:47:46

Test Mode: MODE 5

Modulation Type: 16QAM

2687.0 MHz

Upstream Symbol Rate: 2560 ksps



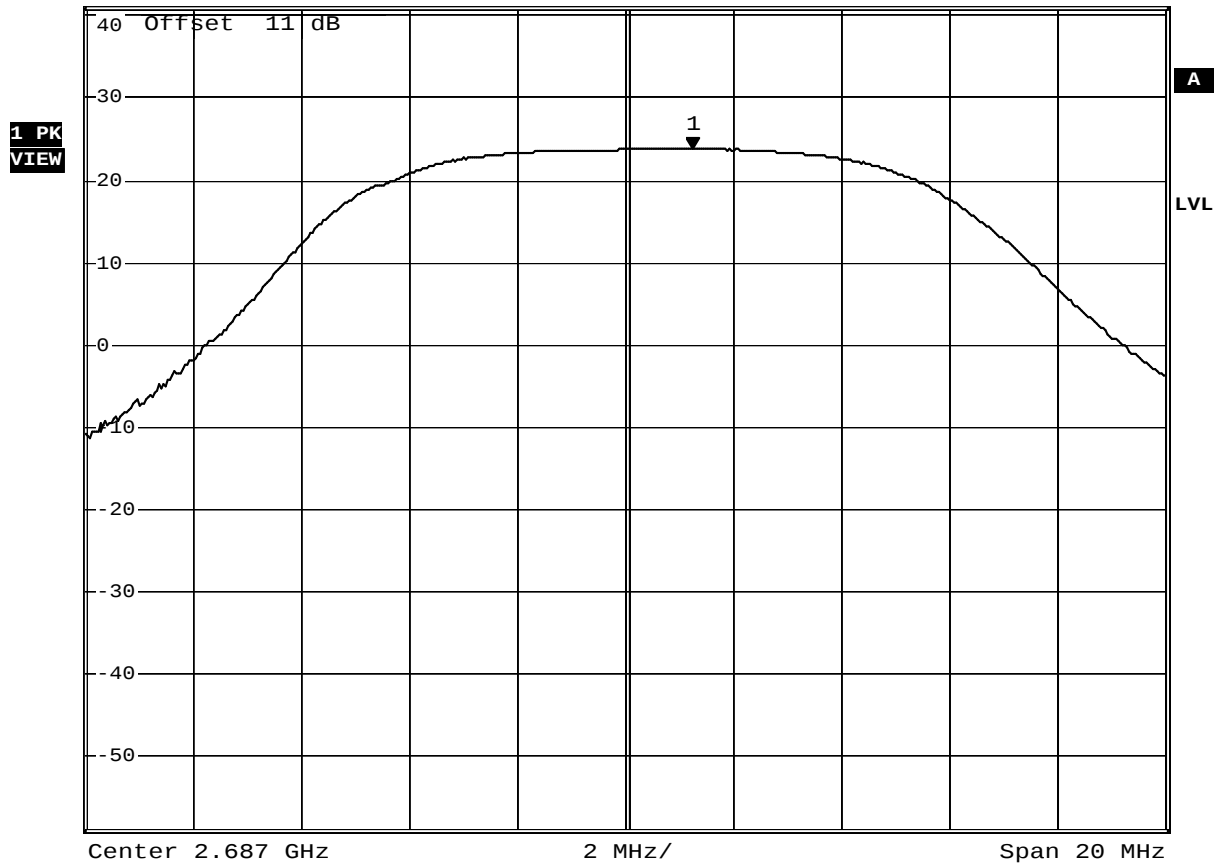
*RBW 10 MHz Marker 1 [T1]
 *VBW 10 MHz 23.84 dBm
 *SWT 100 ms 2.688240000 GHz

Ref 41 dBm

*Att 50 dB

*SWT 100 ms

2.688240000 GHz



Comment: A:\2

Date: 13.DEC.2011 16:05:00

Product	BRS/EBS Transceiver		
Test Item	E.I.R.P Peak Power		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

Mode1: 16QAM-200kHz

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)	E.I.R.P (mW)
Horizontal					
Low	2659.0	44.004	-16.17	27.834	607.295
Middle	2671.5	44.016	-18.34	25.676	369.488
High	2687.0	44.028	-19.31	24.718	296.347
Vertical					
Low	2659.0	43.214	-24.39	18.824	76.278
Middle	2671.5	43.237	-28.26	14.977	31.456
High	2687.0	43.259	-30.53	12.729	18.746

Mode2: 16QAM-400kHz

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)	E.I.R.P (mW)
Horizontal					
Low	2659.0	44.004	-16.46	27.544	568.068
Middle	2671.5	44.016	-19.24	24.776	300.331
High	2687.0	44.028	-19.41	24.618	289.601
Vertical					
Low	2659.0	43.214	-29.73	13.484	22.305
Middle	2671.5	43.237	-29.13	14.107	25.745
High	2687.0	43.259	-29.78	13.479	22.279

E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

Mode3: 16QAM-800kHz

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)	E.I.R.P (mW)
Horizontal					
Low	2659.0	44.004	-17.18	26.824	481.282
Middle	2671.5	44.016	-19.63	24.386	274.536
High	2687.0	44.028	-19.41	24.618	289.601
Vertical					
Low	2659.0	43.214	-28.91	14.304	26.940
Middle	2671.5	43.237	-29.04	14.197	26.285
High	2687.0	43.259	-29.49	13.769	23.818

Mode4: 16QAM-1600kHz

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)	E.I.R.P (mW)
Horizontal					
Low	2659.0	44.004	-18.21	25.794	379.665
Middle	2671.5	44.016	-20.21	23.806	240.215
High	2687.0	44.028	-19.98	24.048	253.980
Vertical					
Low	2659.0	43.214	-29.63	13.584	22.824
Middle	2671.5	43.237	-29.88	13.357	21.662
High	2687.0	43.259	-30.26	12.999	19.948

Mode5: 16QAM-3200kHz

Channel	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	E.I.R.P (dBm)	E.I.R.P (mW)
Horizontal					
Low	2659.0	44.004	-16.59	27.414	551.315
Middle	2671.5	44.016	-18.28	25.736	374.628
High	2687.0	44.028	-19.02	25.008	316.811
Vertical					
Low	2659.0	43.214	-27.03	16.184	41.534
Middle	2671.5	43.237	-28.53	14.707	29.560
High	2687.0	43.259	-27.99	15.269	33.643

E.I.R.P = Reading Level + Correct Factor = S.G. – Cable Loss + Antenna Gain

3. Occupied Bandwidth

3.1. Test Equipment

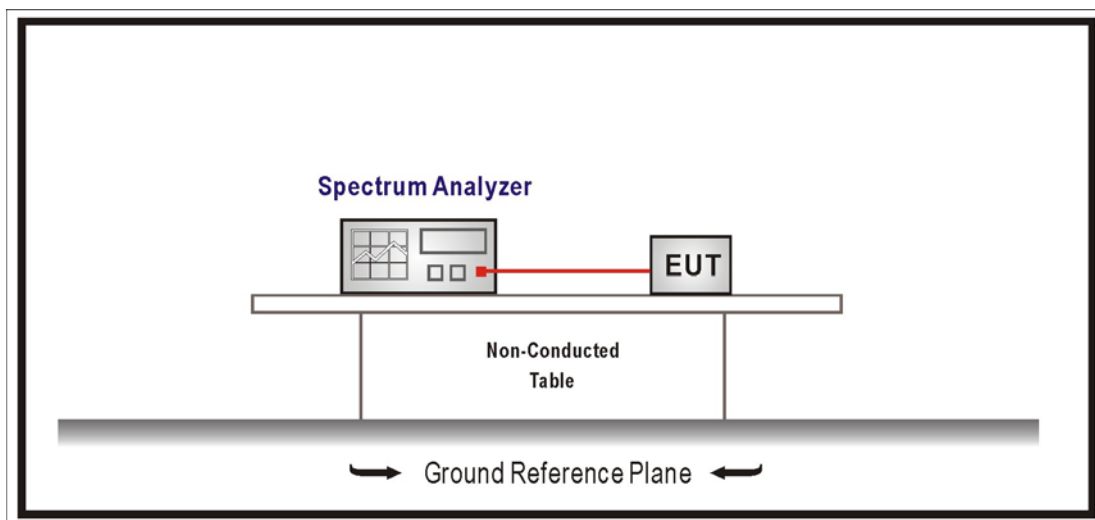
The following test equipments are used during the test:

Occupied Bandwidth/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2012/01/16

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

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.

3.4. Test Procedure

The occupied bandwidth is measured using R&S Spectrum Analyzer with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz. The EUT was set up for the rated peak power under transmission mode and specific channel frequency. The standards required a measurement bandwidth is the fundamental emission below 26dB bandwidth.

3.5. Uncertainty

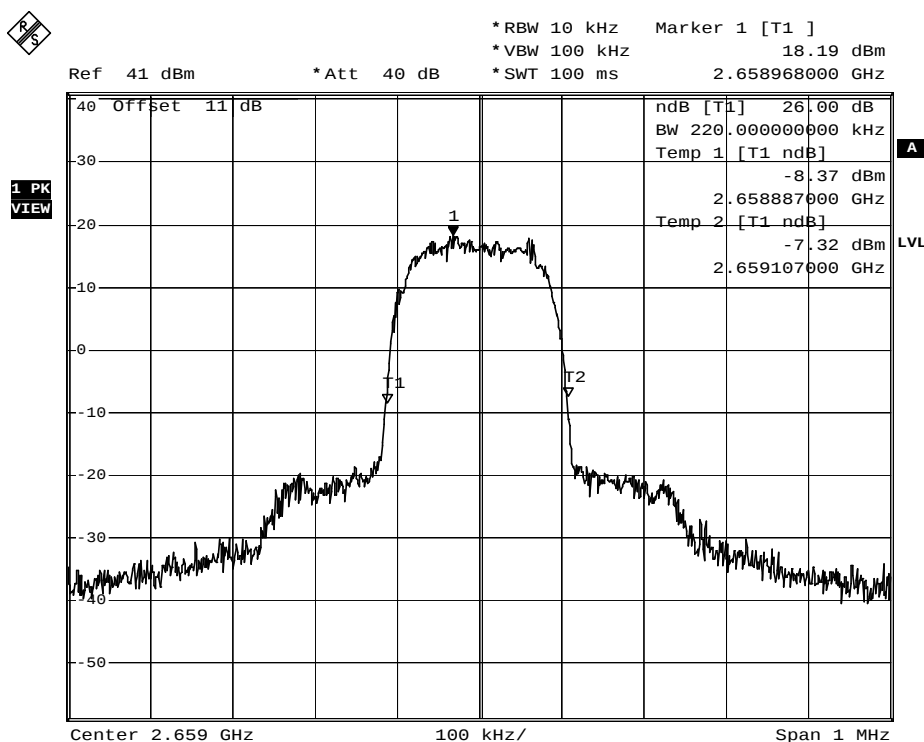
The measurement uncertainty is defined as ± 50 kHz

3.6. Test Result

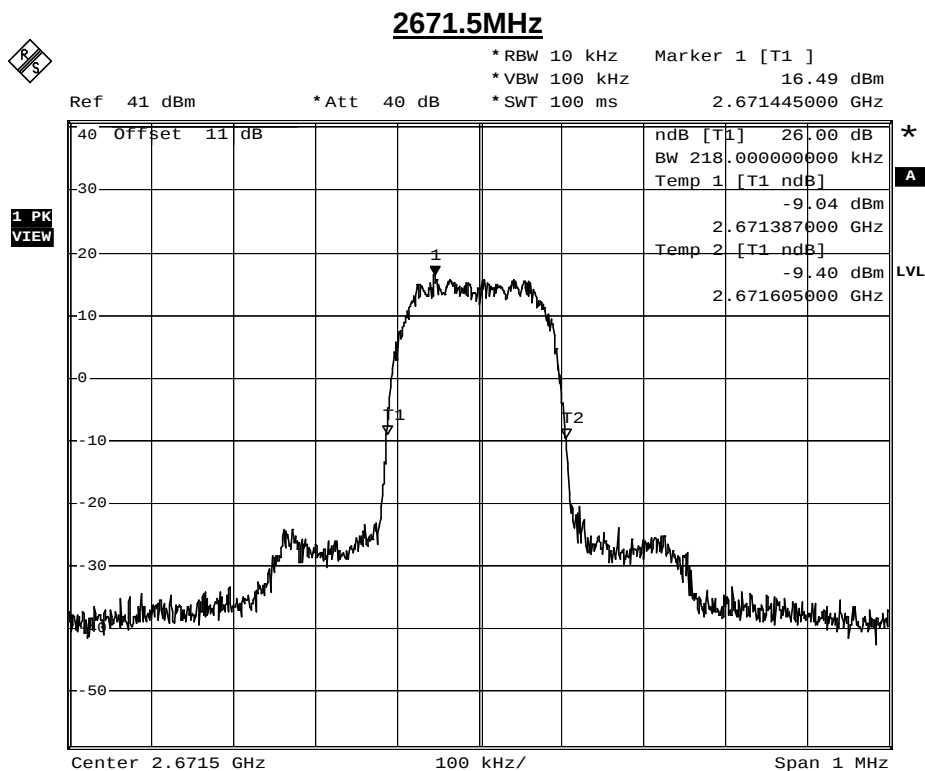
Product	BRS/EBS Transceiver		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

Mode 1: QPSK-200kHz				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.220	--	Pass
Middle	2671.5	0.218	--	Pass
High	2687.0	0.202	--	Pass

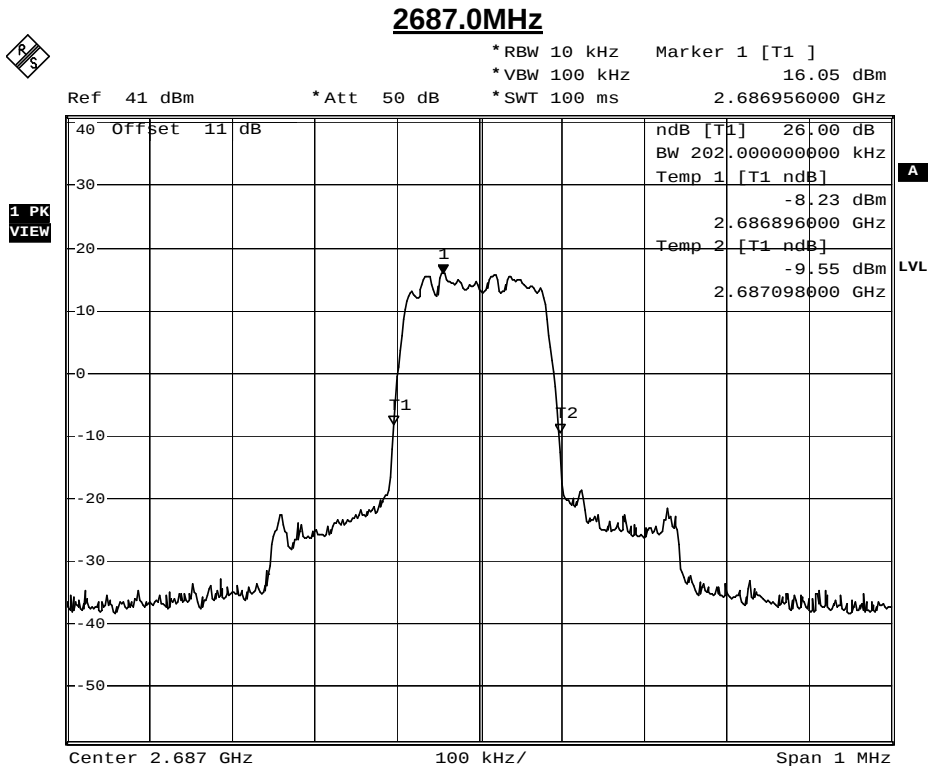
2659.0MHz



Comment: A:\2
Date: 20.JAN.2012 12:00:23



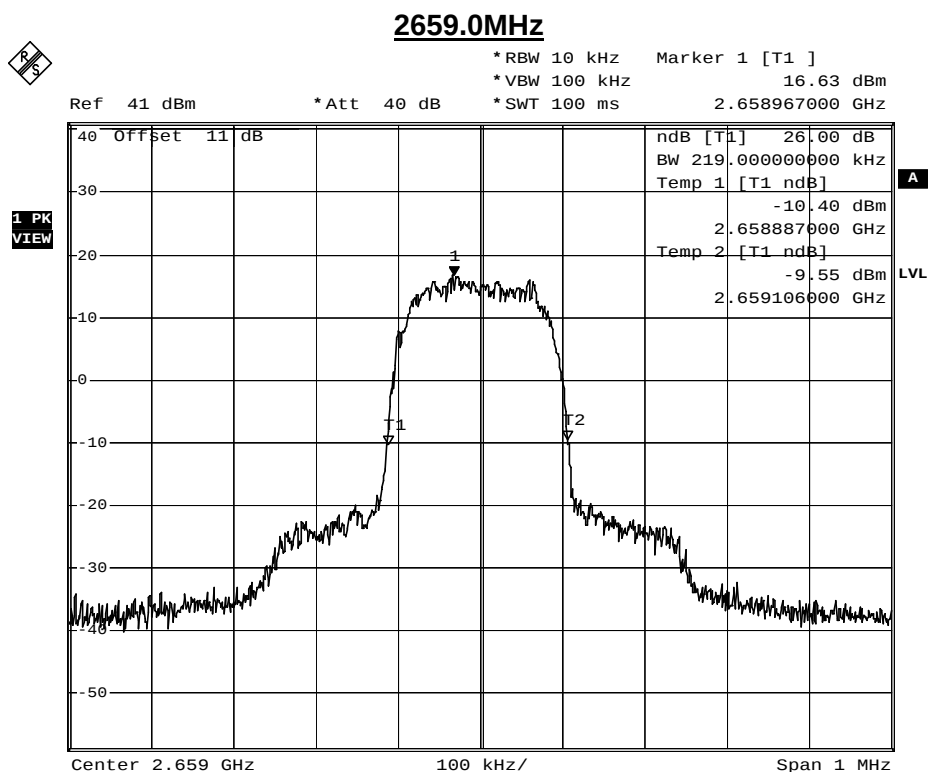
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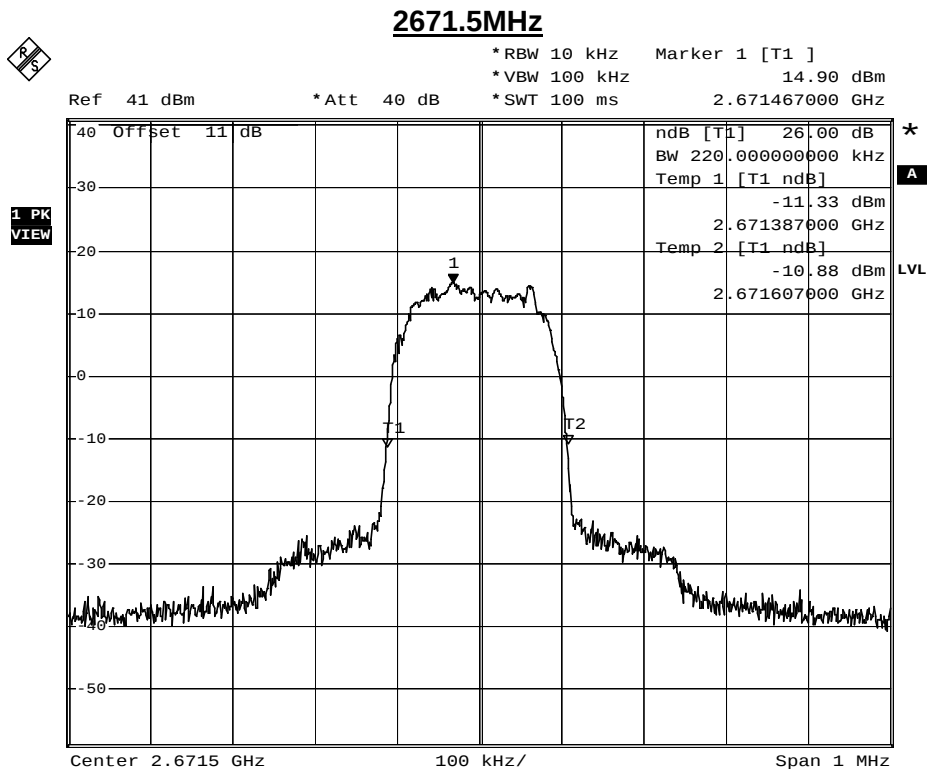
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Date: 13.DEC.2011 22:02:43

Mode 1: 16QAM-200kHz

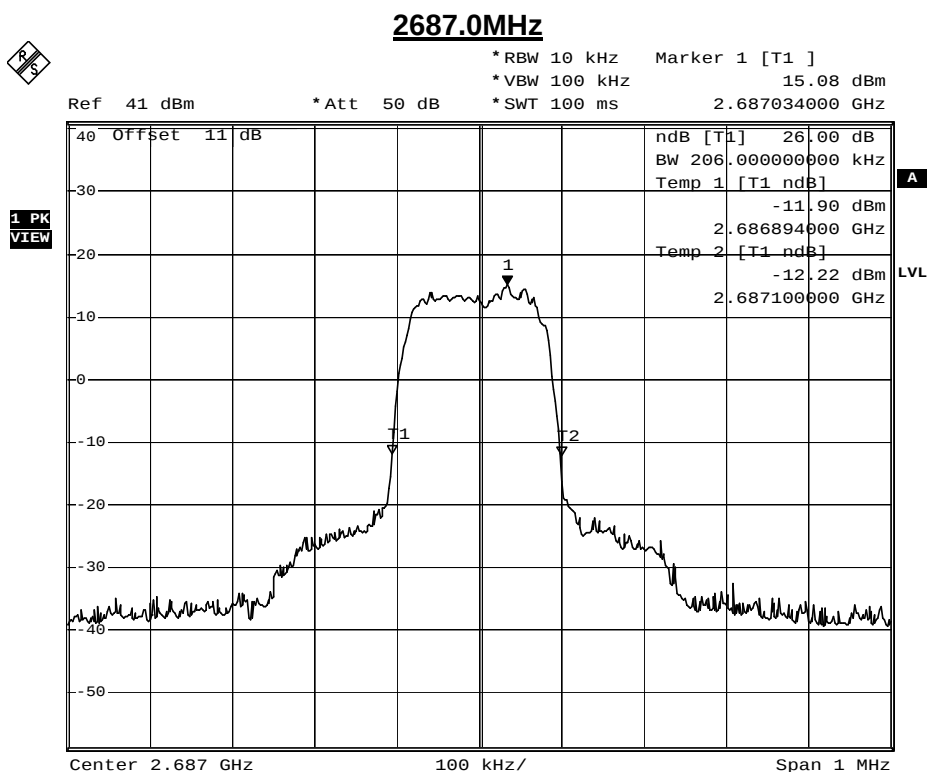
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.219	--	Pass
Middle	2671.5	0.220	--	Pass
High	2687.0	0.206	--	Pass



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Comment: A:\2
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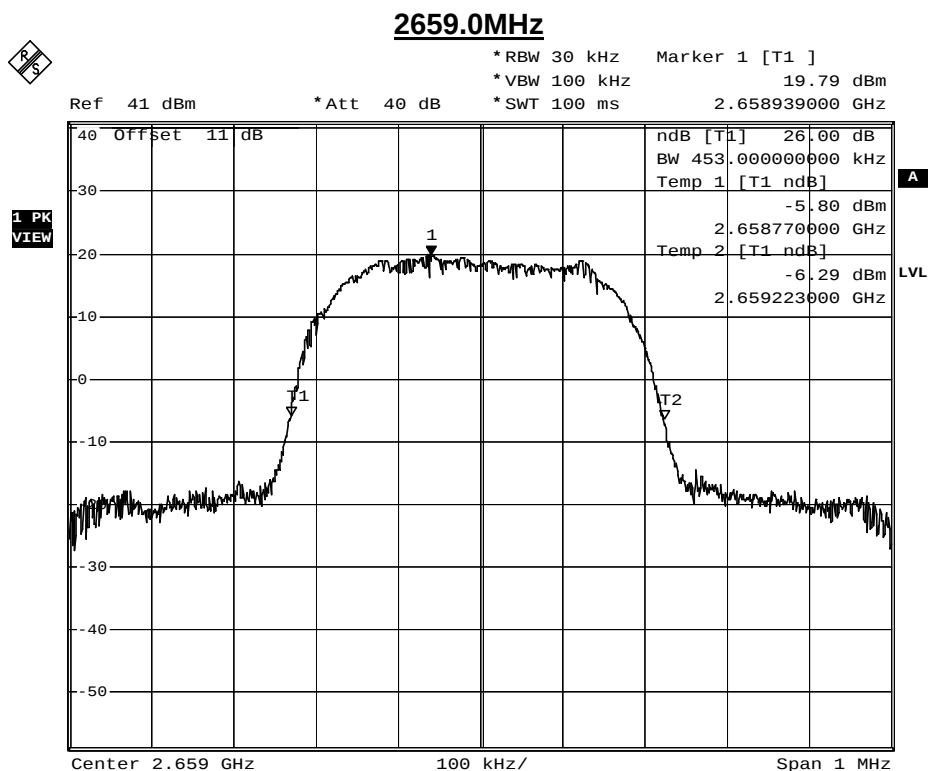


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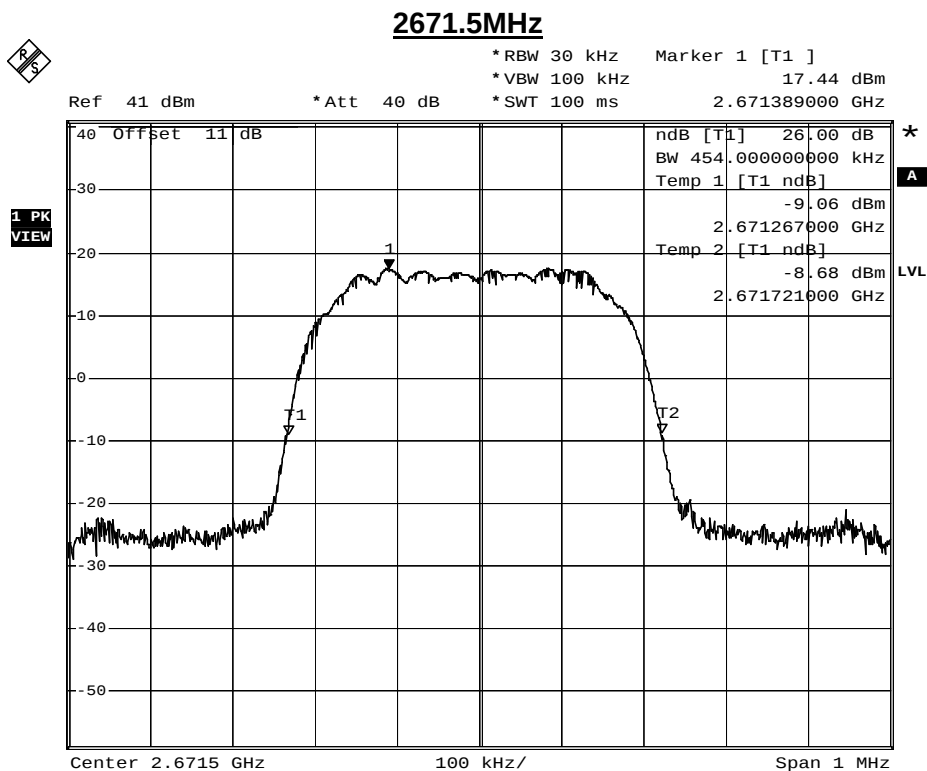
Product	BRS/EBS Transceiver		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

Mode 2: QPSK-400kHz

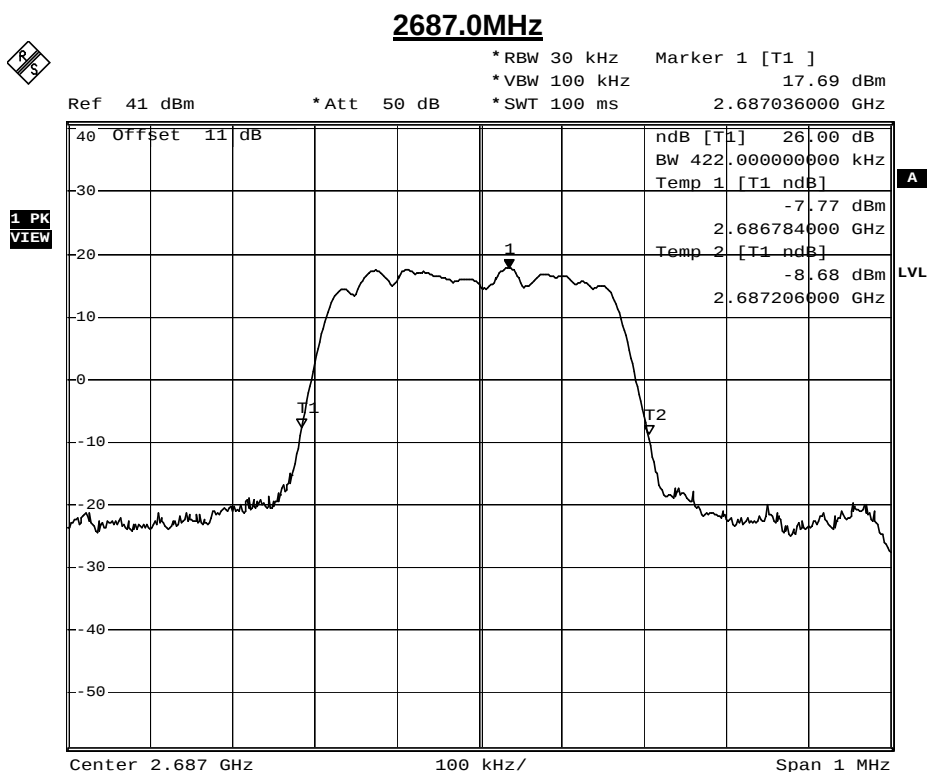
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.453	--	Pass
Middle	2671.5	0.454	--	Pass
High	2687.0	0.422	--	Pass



Comment: A:\2
Date: 20.JAN.2012 12:01:32



Comment: A:\2
Date: 20.JAN.2012 12:07:20

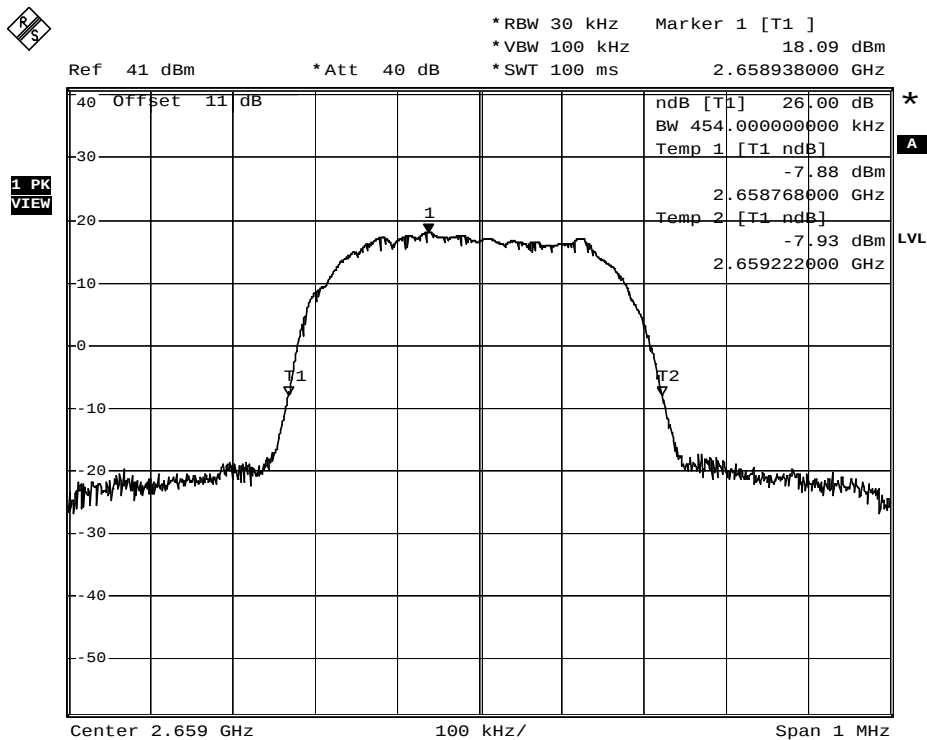


Comment: A:\2
Date: 13.DEC.2011 22:08:40

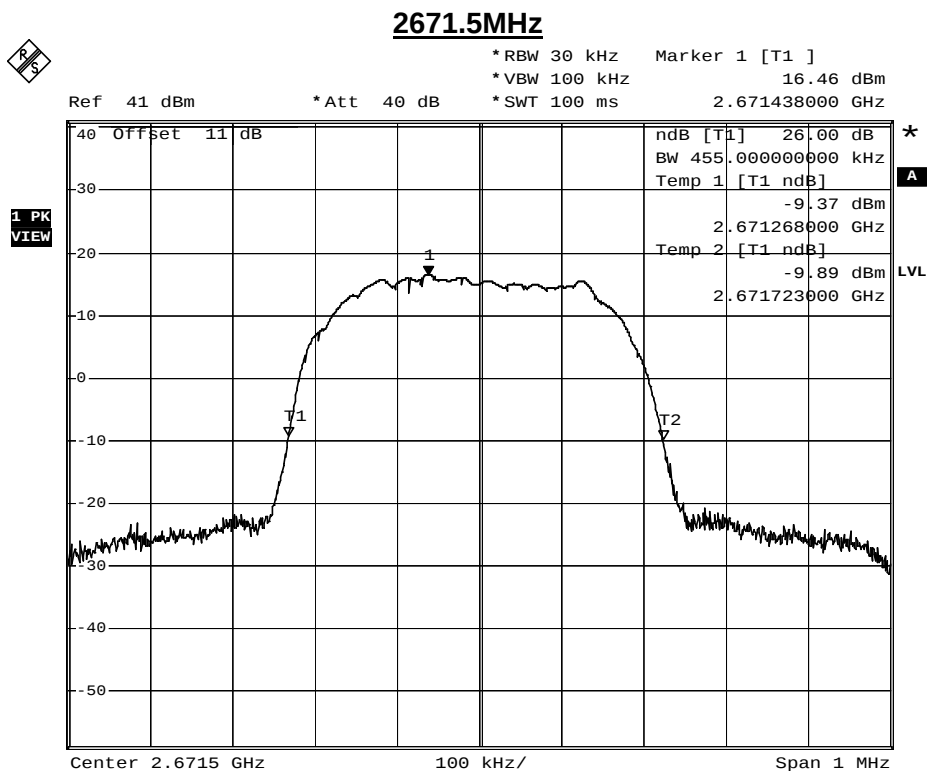
Mode 2: 16QAM-400kHz

Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.454	--	Pass
Middle	2671.5	0.455	--	Pass
High	2687.0	0.426	--	Pass

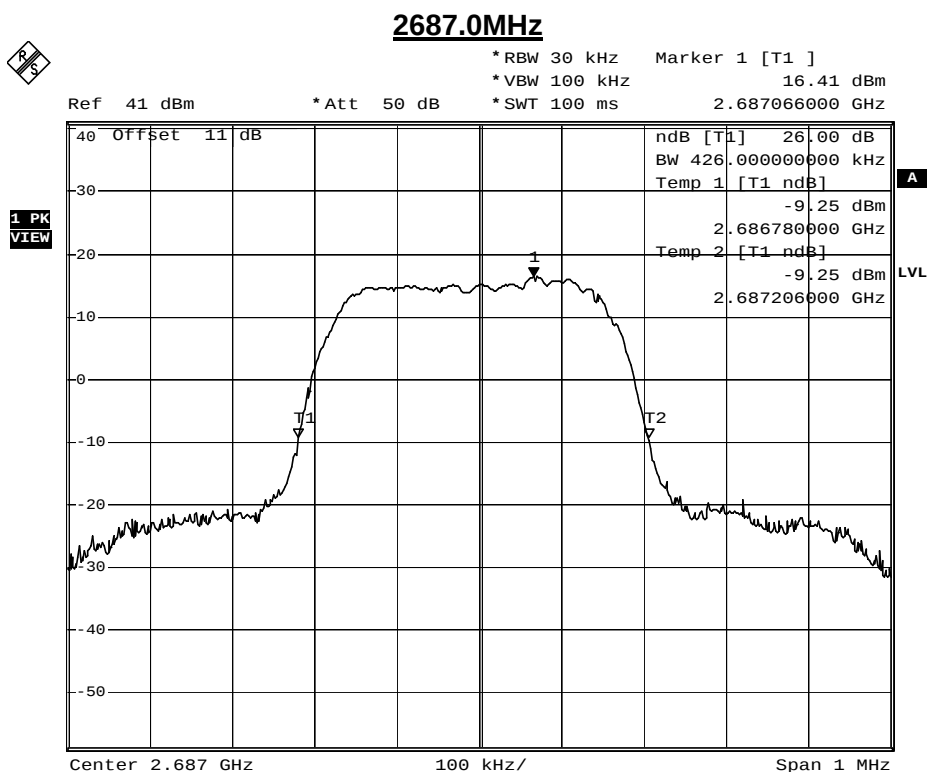
2659.0MHz



Comment: A:\2
 Date: 20.JAN.2012 12:37:09



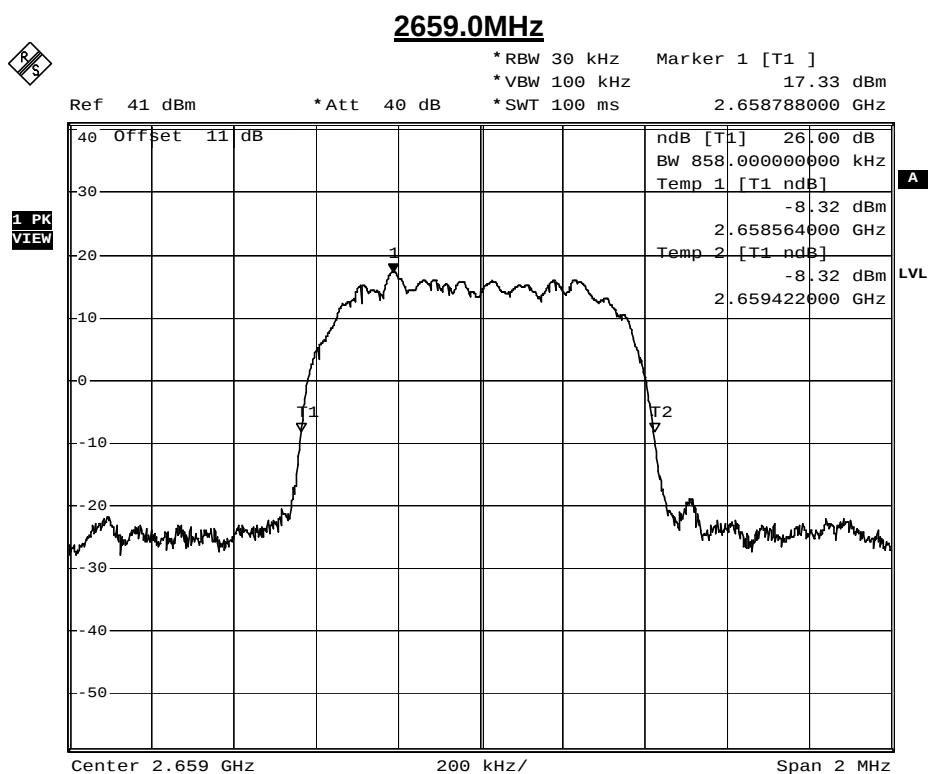
Comment: A:\2
 Date: 20.JAN.2012 12:42:16



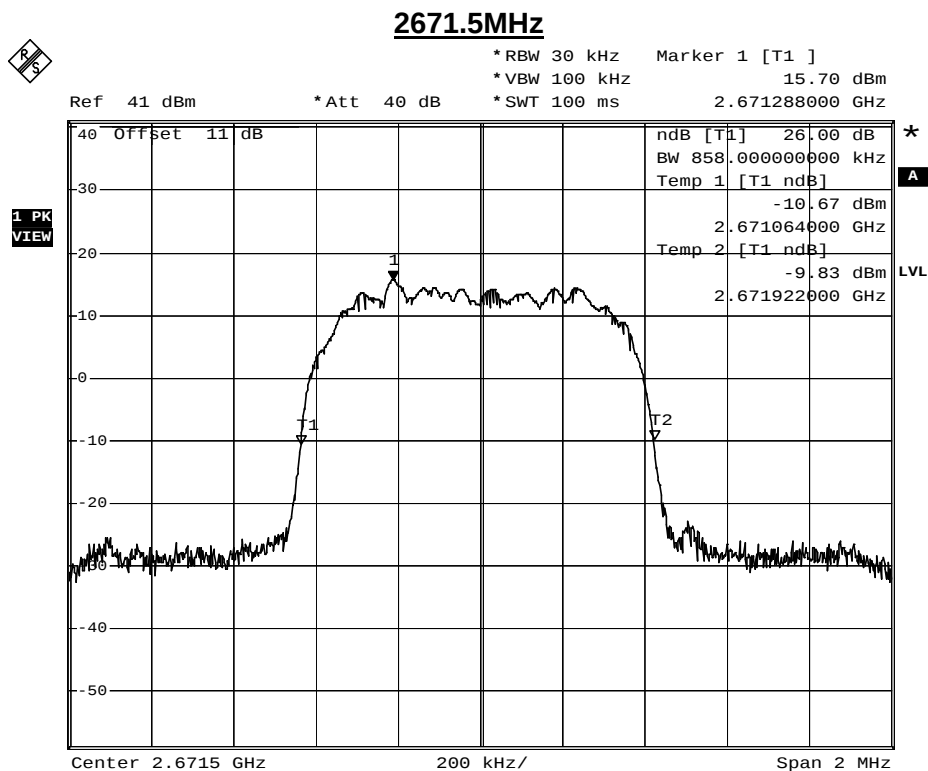
Comment: A:\2
 Date: 13.DEC.2011 22:23:01

Product	BRS/EBS Transceiver		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

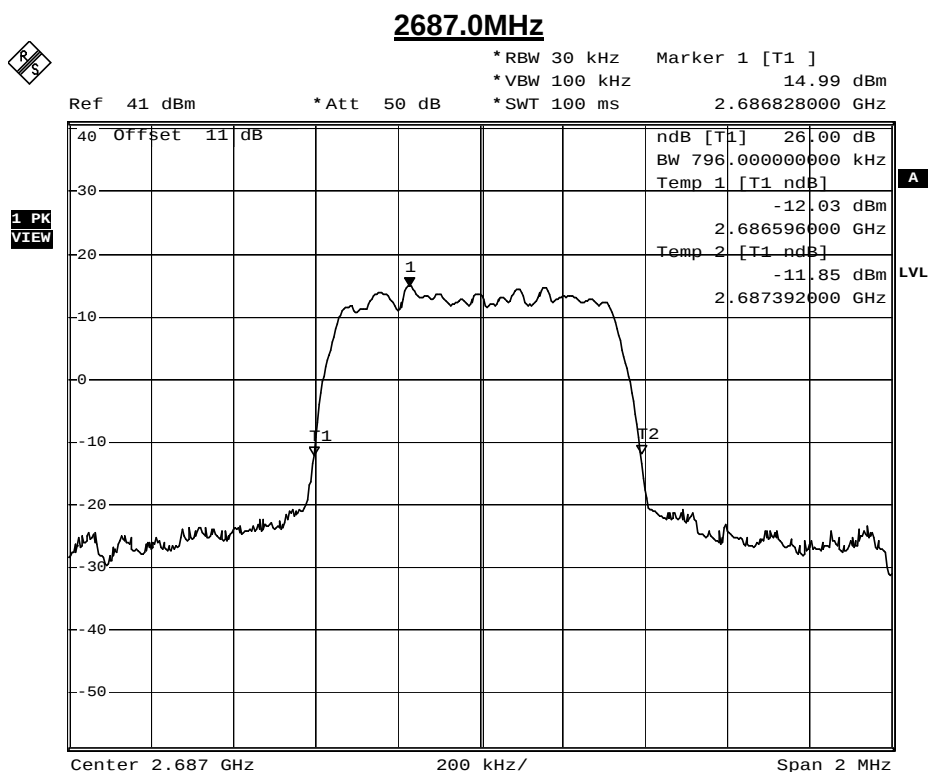
Mode 3: QPSK-800kHz				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.858	--	Pass
Middle	2671.5	0.858	--	Pass
High	2687.0	0.796	--	Pass



Comment: A:\2
 Date: 20.JAN.2012 12:02:44



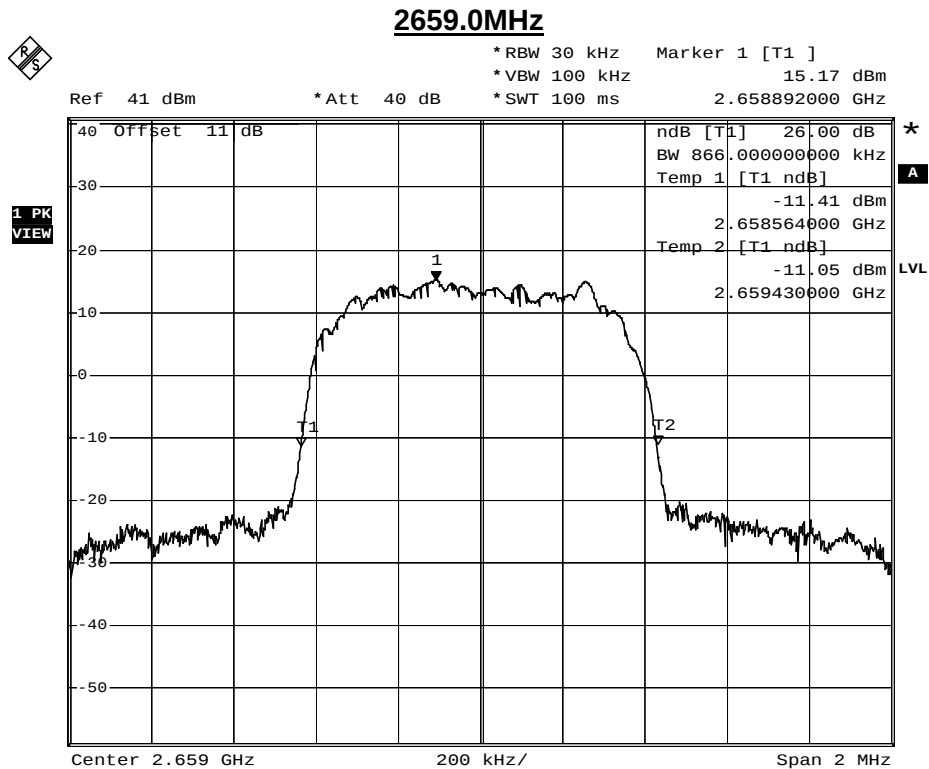
Comment: A:\2
Date: 20.JAN.2012 12:06:40



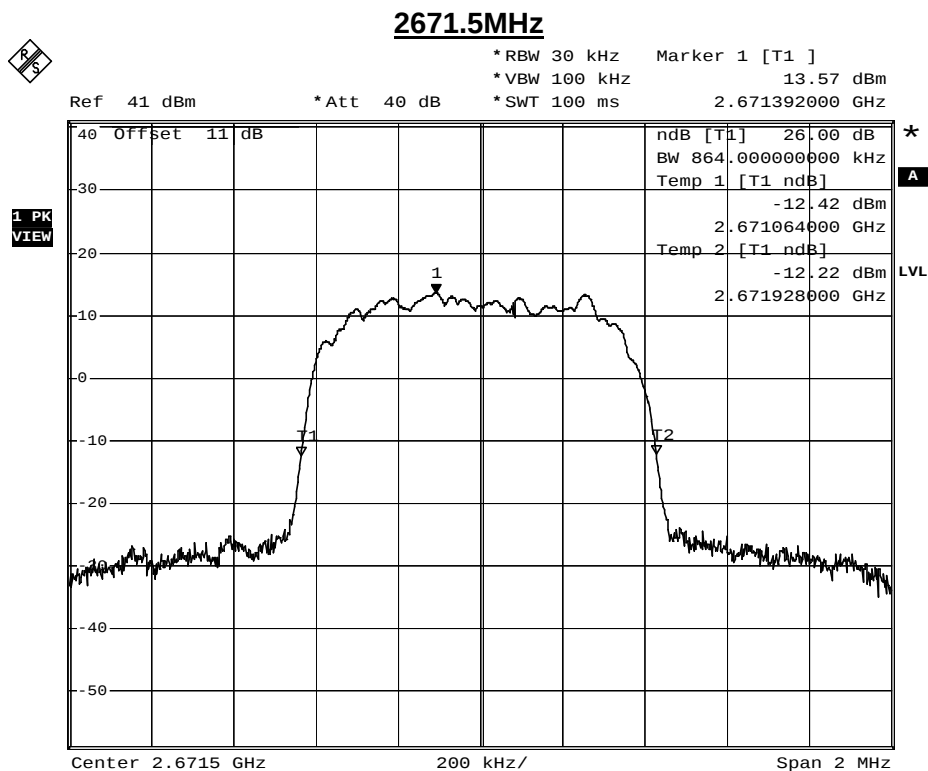
Comment: A:\2
Date: 13.DEC.2011 22:10:15

Mode 3: 16QAM-800kHz

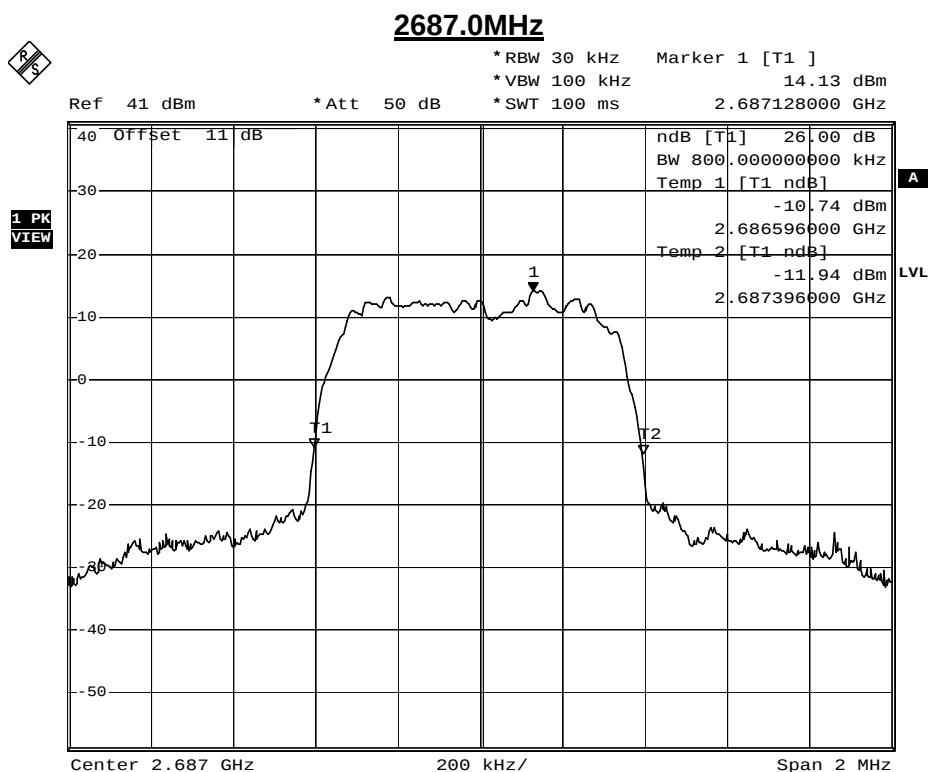
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	0.866	--	Pass
Middle	2671.5	0.864	--	Pass
High	2687.0	0.80	--	Pass



Comment: A:\2
 Date: 20.JAN.2012 12:37:41



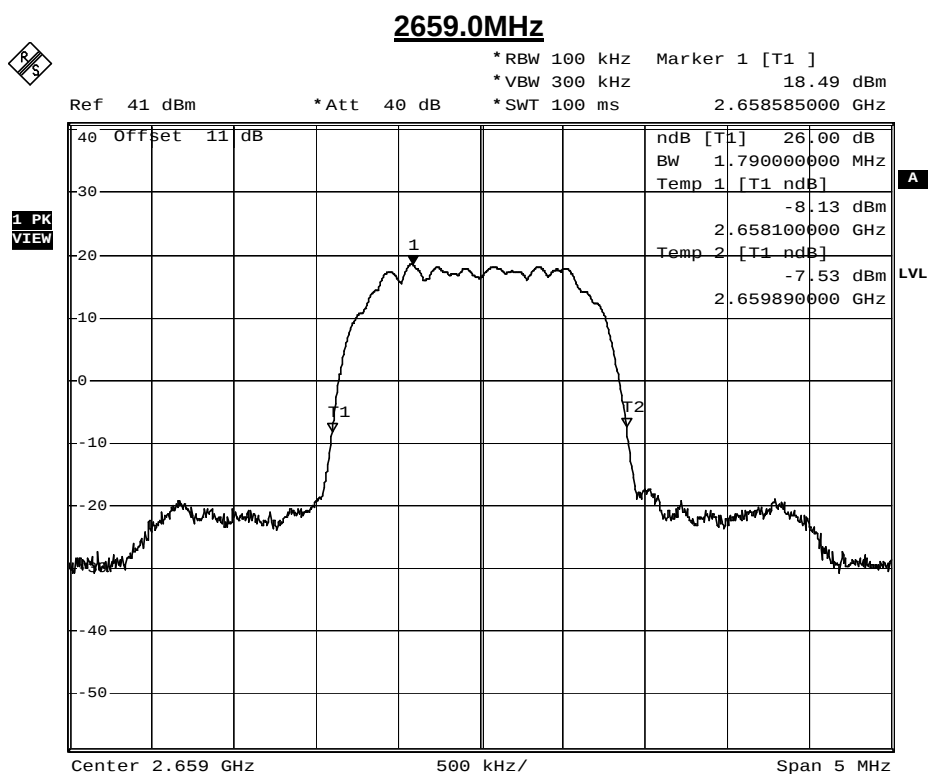
Comment: A:\2
Date: 20.JAN.2012 12:41:41



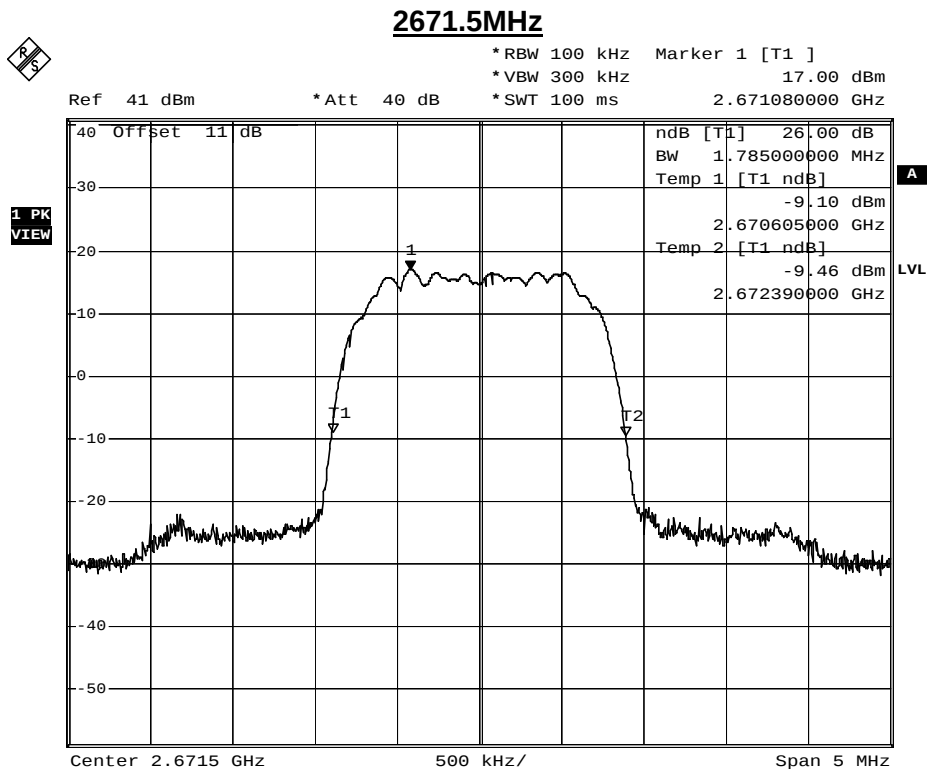
Comment: A:\2
Date: 13.DEC.2011 22:23:42

Product	BRS/EBS Transceiver		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

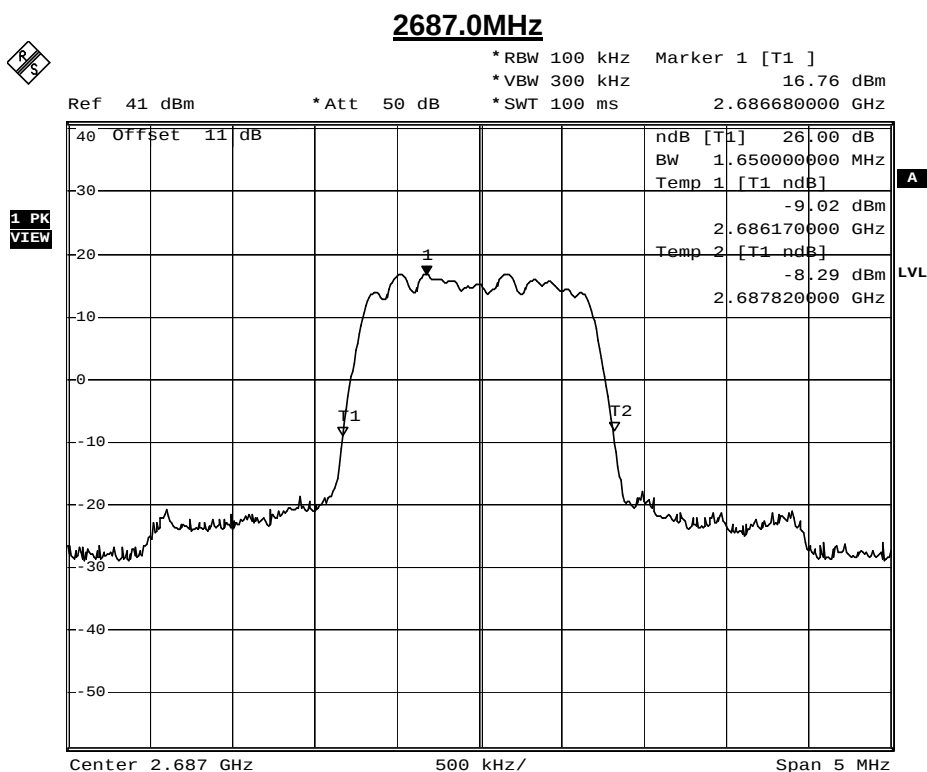
Mode 4: QPSK-1600kHz				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	1.79	--	Pass
Middle	2671.5	1.79	--	Pass
High	2687.0	1.65	--	Pass



Comment: A:\2
 Date: 20.JAN.2012 12:03:35



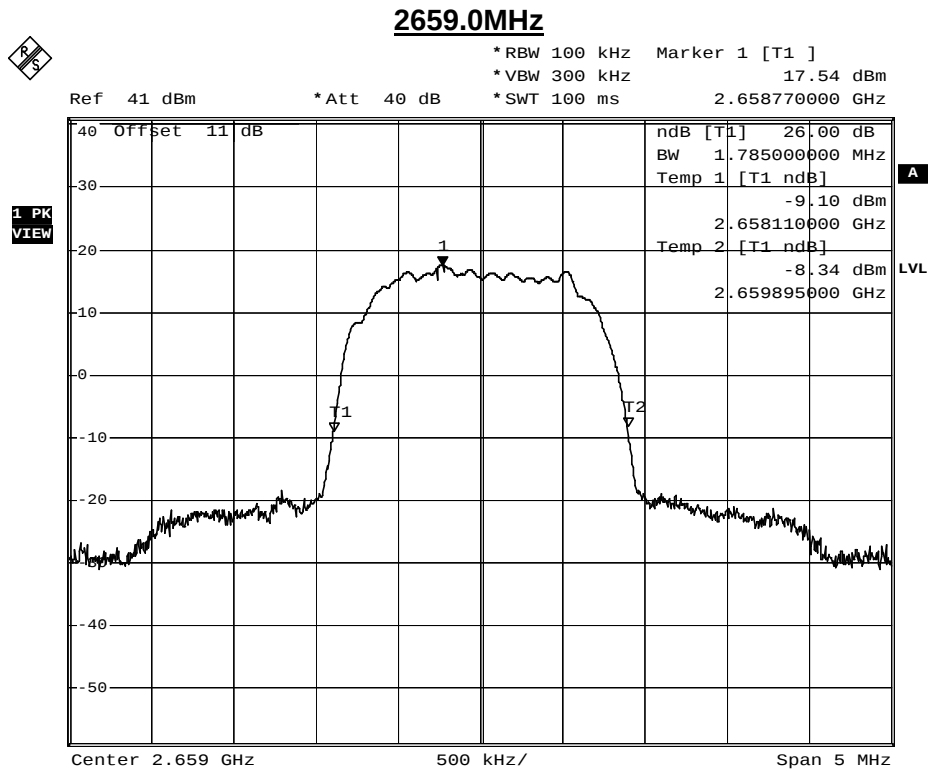
Comment: A:\2
Date: 20.JAN.2012 12:06:05



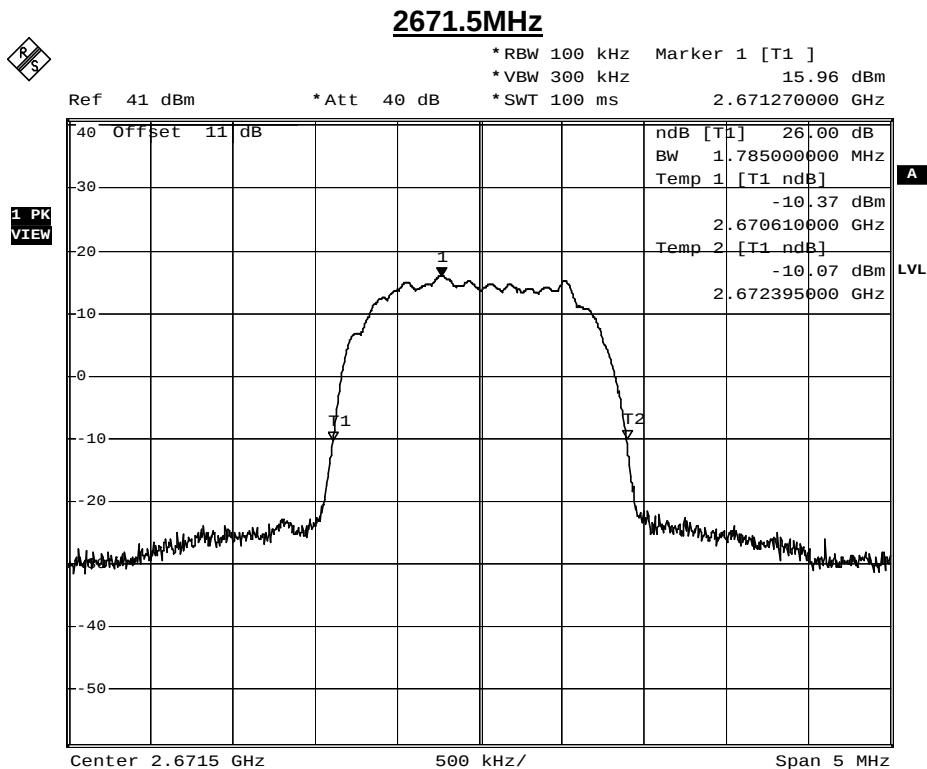
Comment: A:\2
Date: 13.DEC.2011 22:13:12

Mode 4: 16QAM-1600kHz

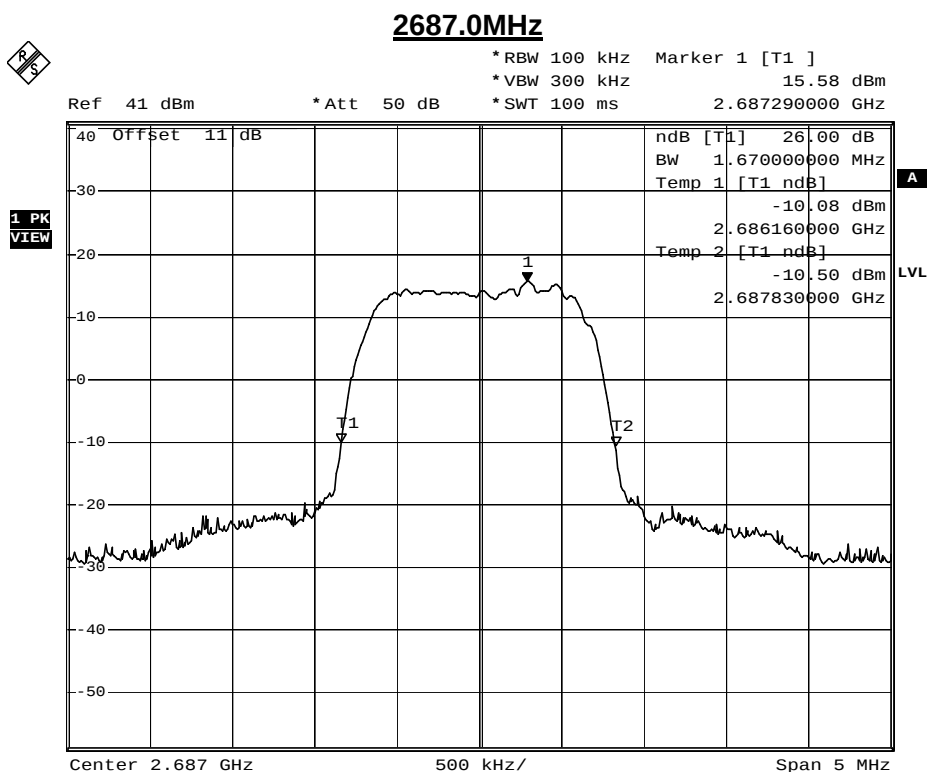
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	1.79	--	Pass
Middle	2671.5	1.79	--	Pass
High	2687.0	1.67	--	Pass



Comment: A:\2
 Date: 20.JAN.2012 12:38:33



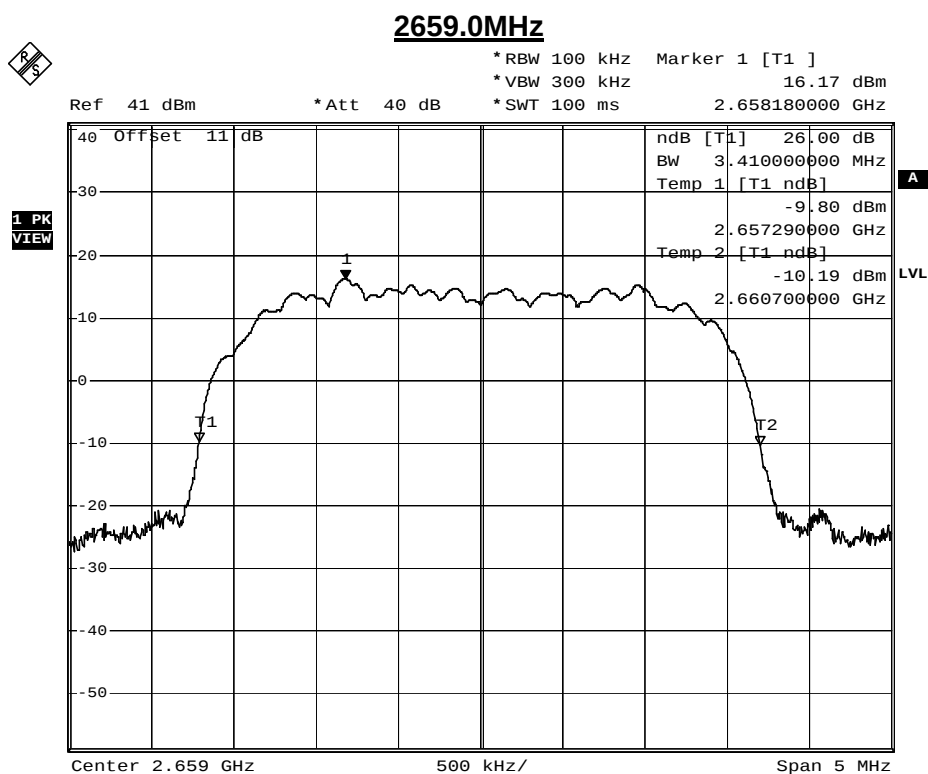
Comment: A:\2
Date: 20.JAN.2012 12:41:13



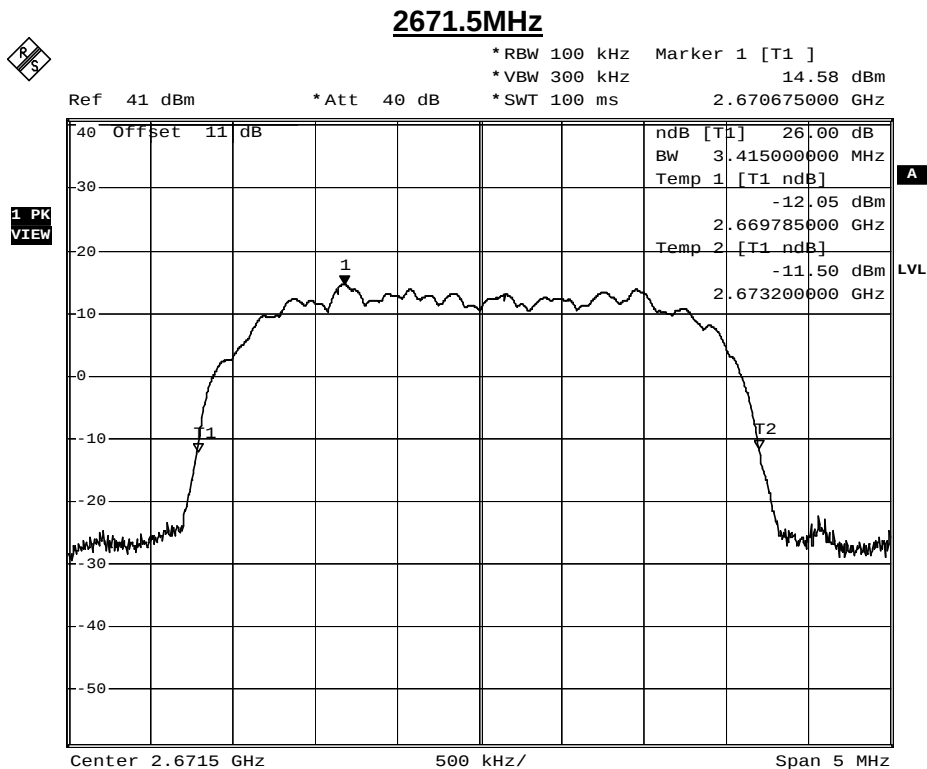
Comment: A:\2
Date: 13.DEC.2011 22:26:56

Product	BRS/EBS Transceiver		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

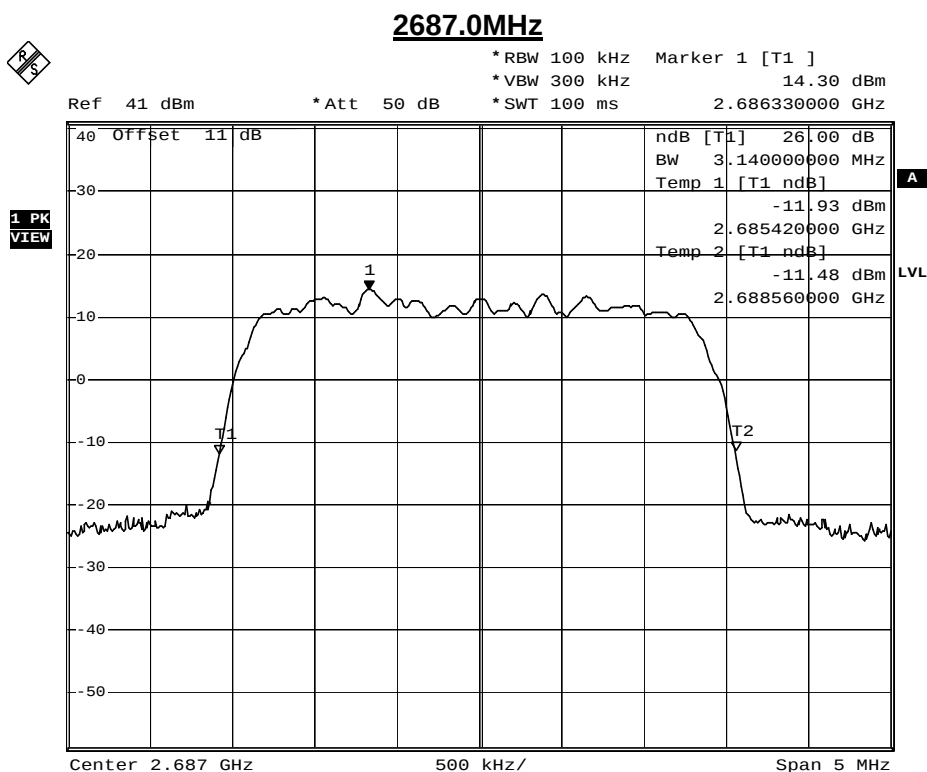
Mode 5: QPSK-3200kHz				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	3.41	--	Pass
Middle	2671.5	3.41	--	Pass
High	2687.0	3.14	--	Pass



Comment: A:\2
 Date: 20.JAN.2012 12:04:00



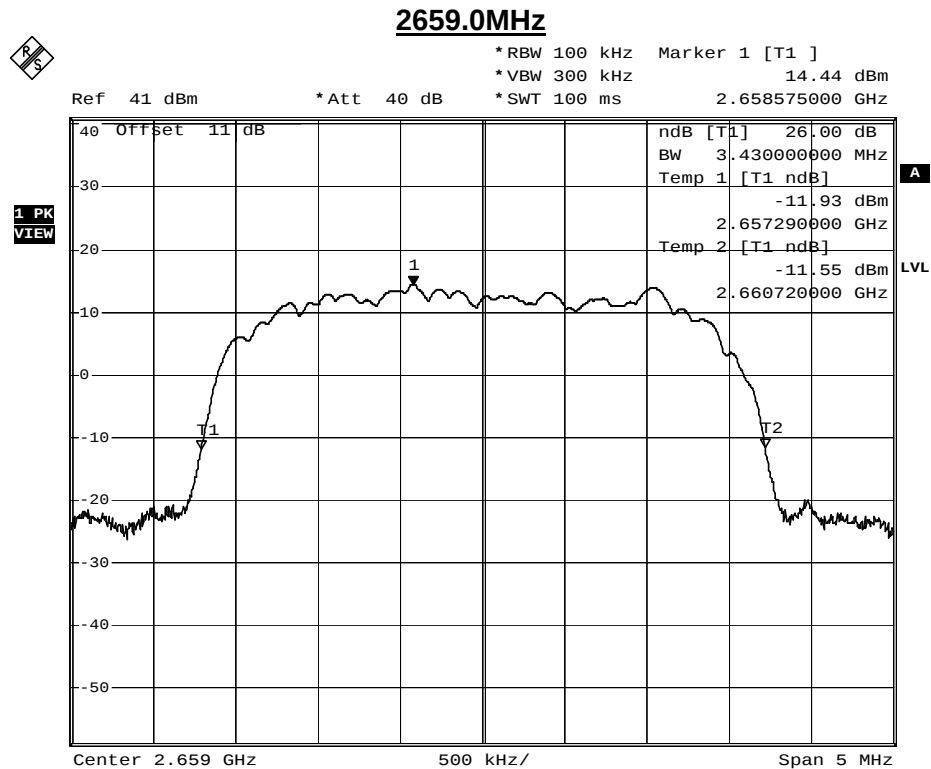
Comment: A:\2
Date: 20.JAN.2012 12:05:18



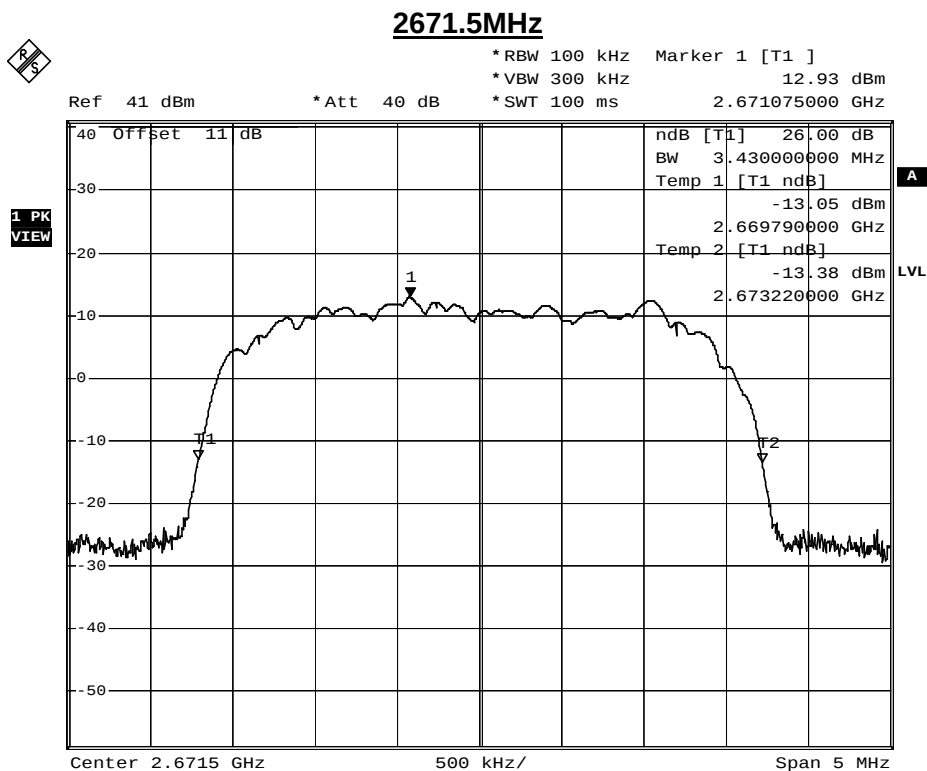
Comment: A:\2
Date: 13.DEC.2011 22:04:25

Mode 5: 16QAM-3200kHz

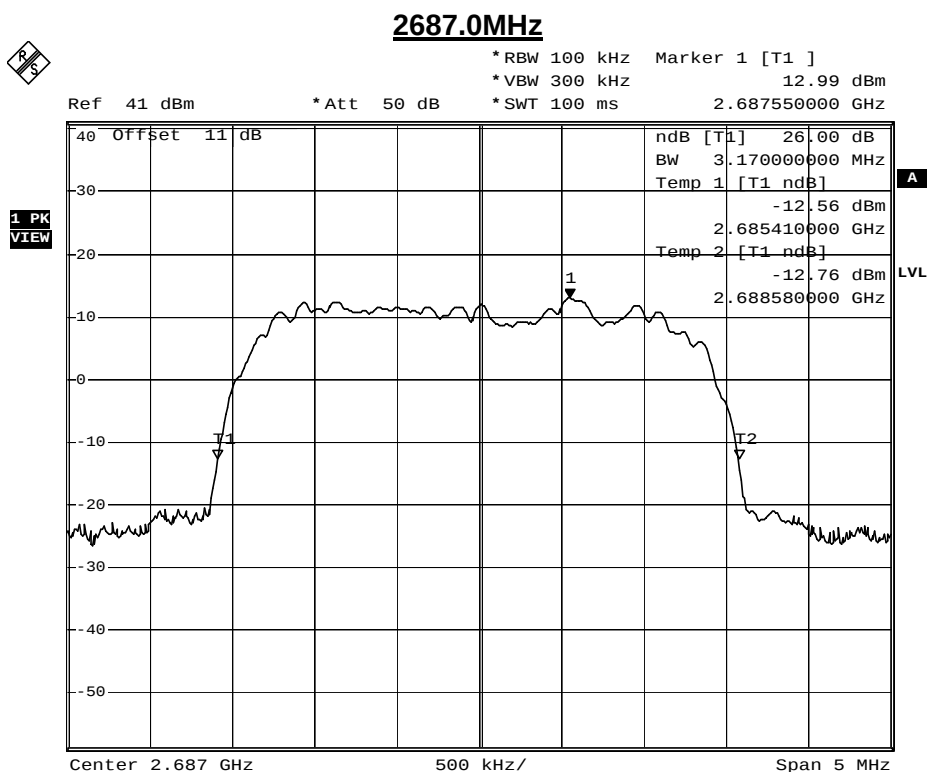
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
Low	2659.0	3.43	--	Pass
Middle	2671.5	3.43	--	Pass
High	2687.0	3.17	--	Pass



Comment: A:\2
Date: 20.JAN.2012 12:39:06



Comment: A:\2
Date: 20.JAN.2012 12:40:27



Comment: A:\2
Date: 13.DEC.2011 22:19:38

4. Band Edge

4.1. Test Equipment

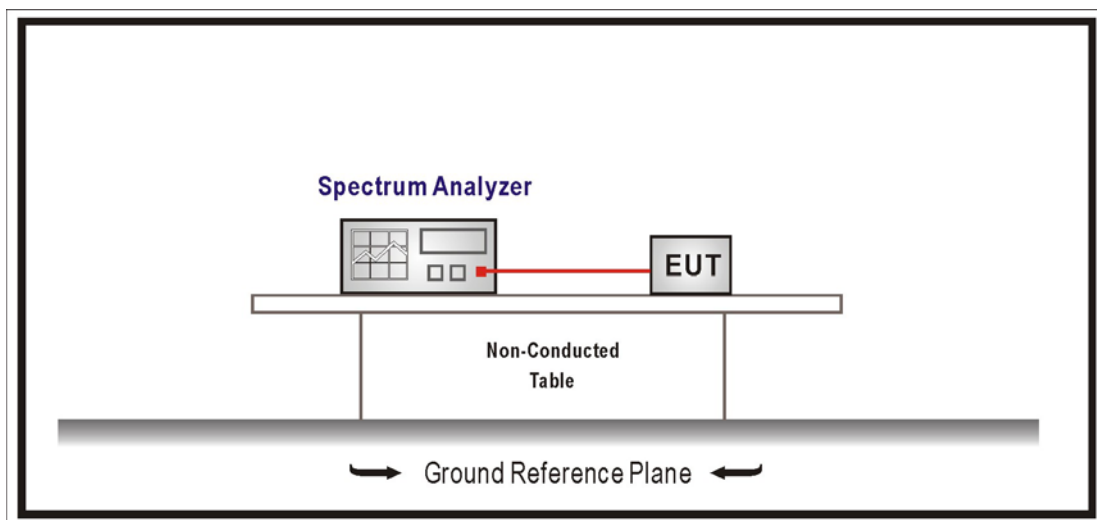
The following test equipments are used during the test:

Band edge/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/01/16

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges

Sample Calculation:

Assume the EUT Output Power is 2 W = 33 dBm

$$43 + \log (P) \text{ dB}$$

$$43 + \log (2) = 46 \text{ dB}$$

$$33 \text{ dBm} - 46 \text{ dB} = -13 \text{ dBm}$$

$$55 + \log (2) = 58 \text{ dB}$$

$$33 \text{ dBm} - 58 \text{ dB} = -25 \text{ dBm}$$

4.4. Test Procedure

The EUT was set up for the rated peak power. The band edge was measured with Spectrum Analyzer with a resolution bandwidth of 100 kHz and video bandwidth of 300 kHz. All measurements were done at 2 channels: low and high operational frequency range.

The center frequency of spectrum is the band edge frequency. The resolution bandwidth of spectrum is 100 kHz and video bandwidth of spectrum is 300 kHz.

Record the max trace plot into the test report.

4.5. Uncertainty

The measurement uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

Radiated is defined as $\pm 3.9\text{dB}$

4.6. Test Result

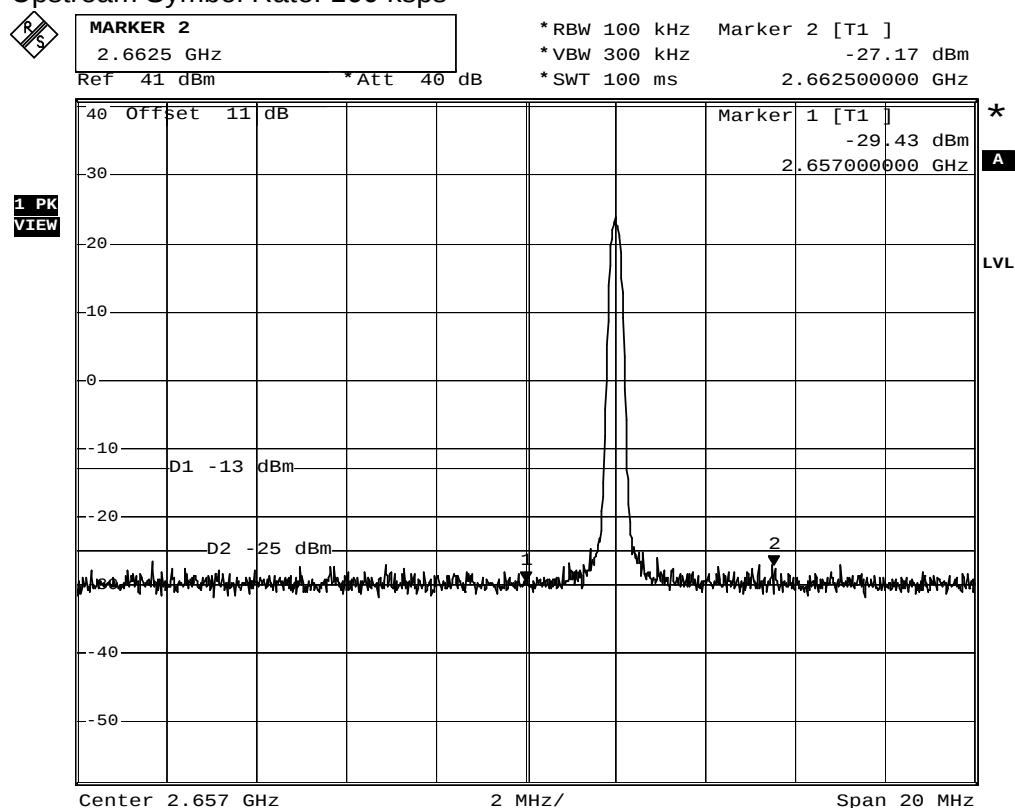
Product	BRS/EBS Transceiver		
Test Item	Band Edge		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

Test Mode: Mode 1

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 160 ksps



Comment: A:\2

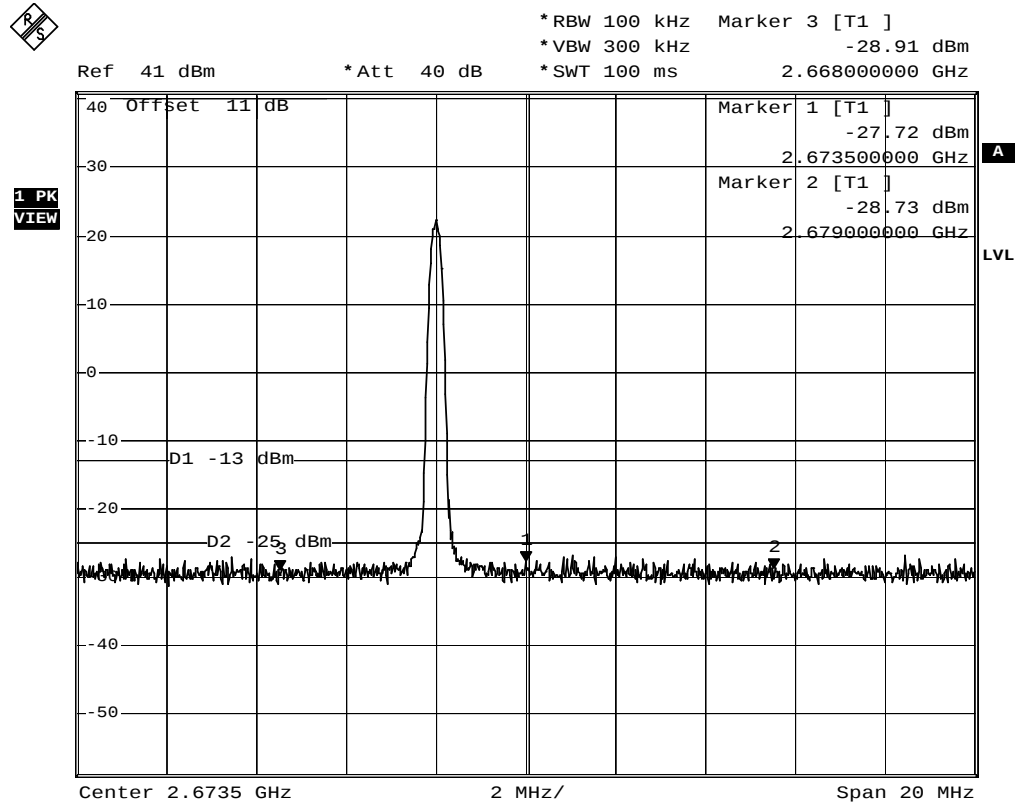
Date: 20.JAN.2012 12:56:15

Test Mode: Mode 1

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 160 ksps



Comment: A:\2

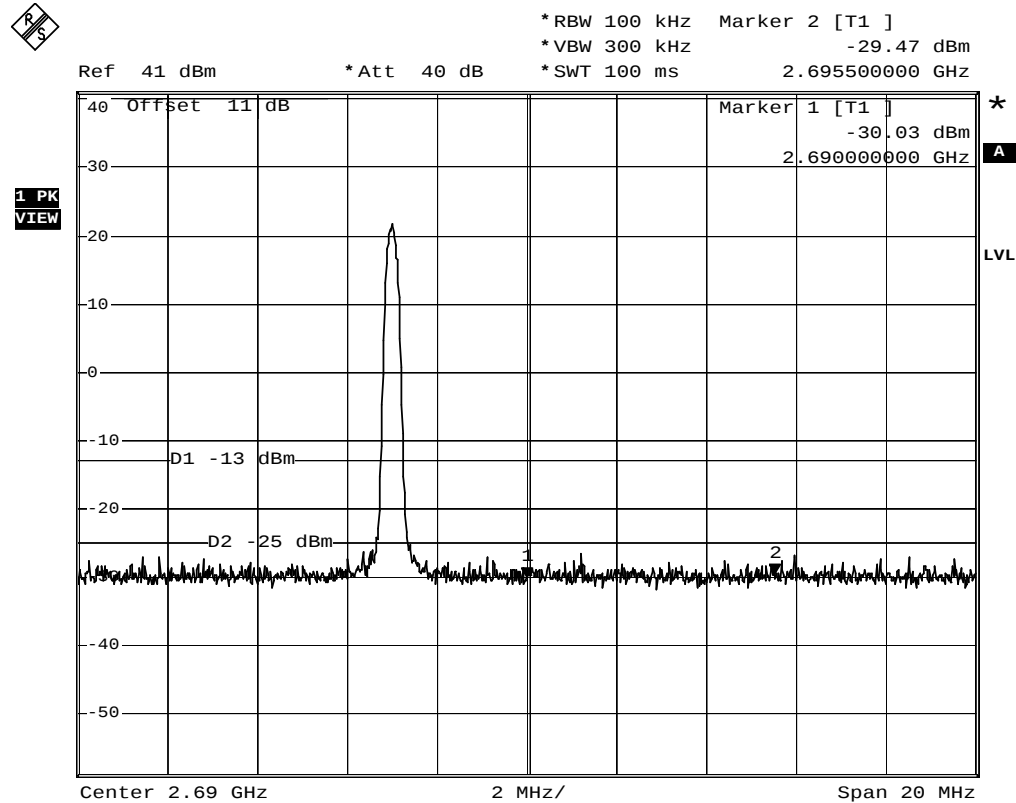
Date: 20.JAN.2012 12:54:57

Test Mode: Mode 1

Modulation Type: 16QAM

2687.0 MHz

Upstream Symbol Rate: 160 ksps



Comment: A:\2

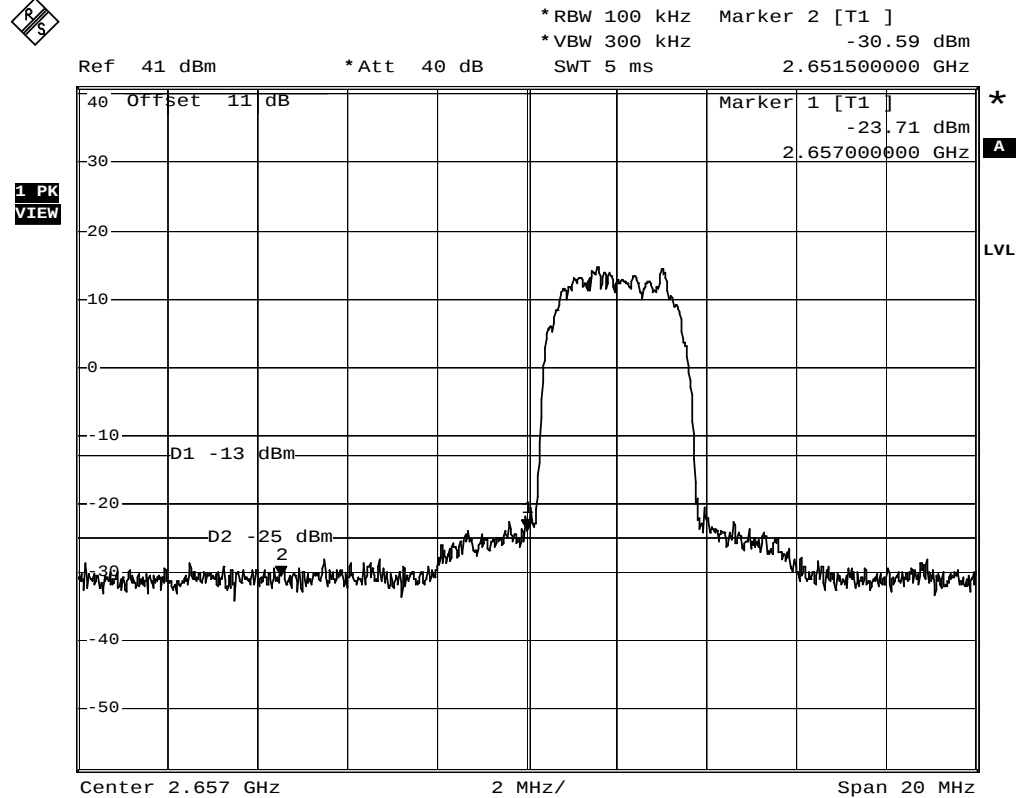
Date: 20.JAN.2012 13:00:46

Test Mode: Mode 5

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 2560 kps



Comment: A:\2

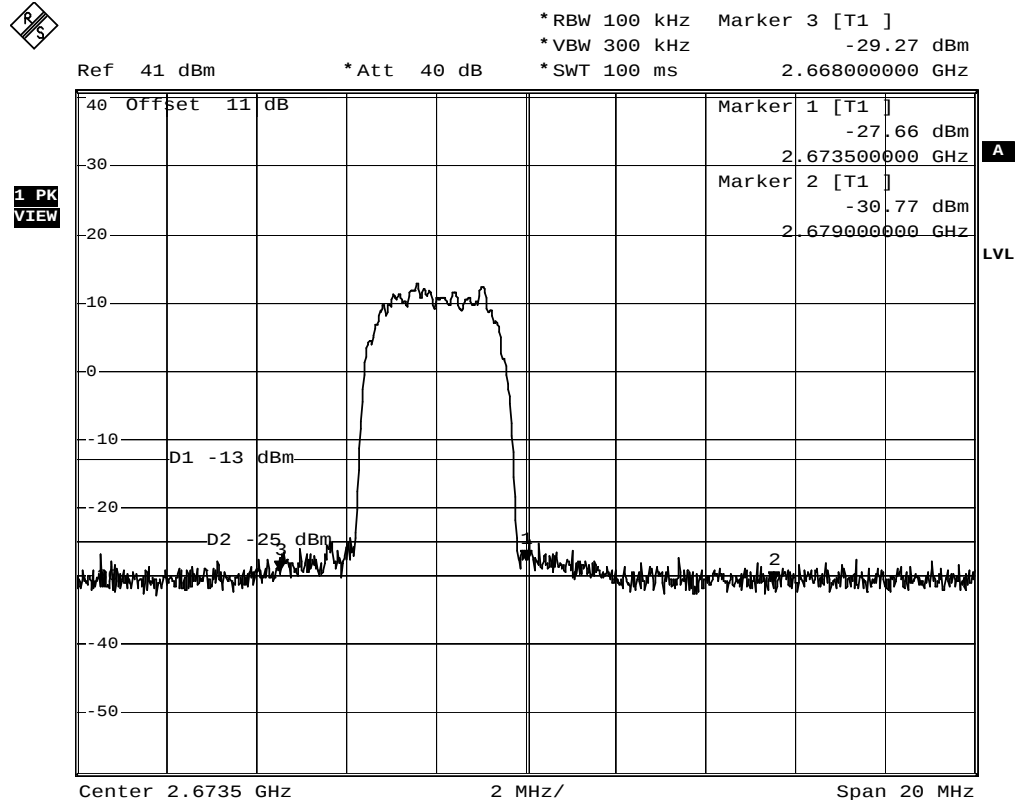
Date: 20.JAN.2012 11:15:10

Test Mode: Mode 5

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 2560 kps



Comment: A:\2

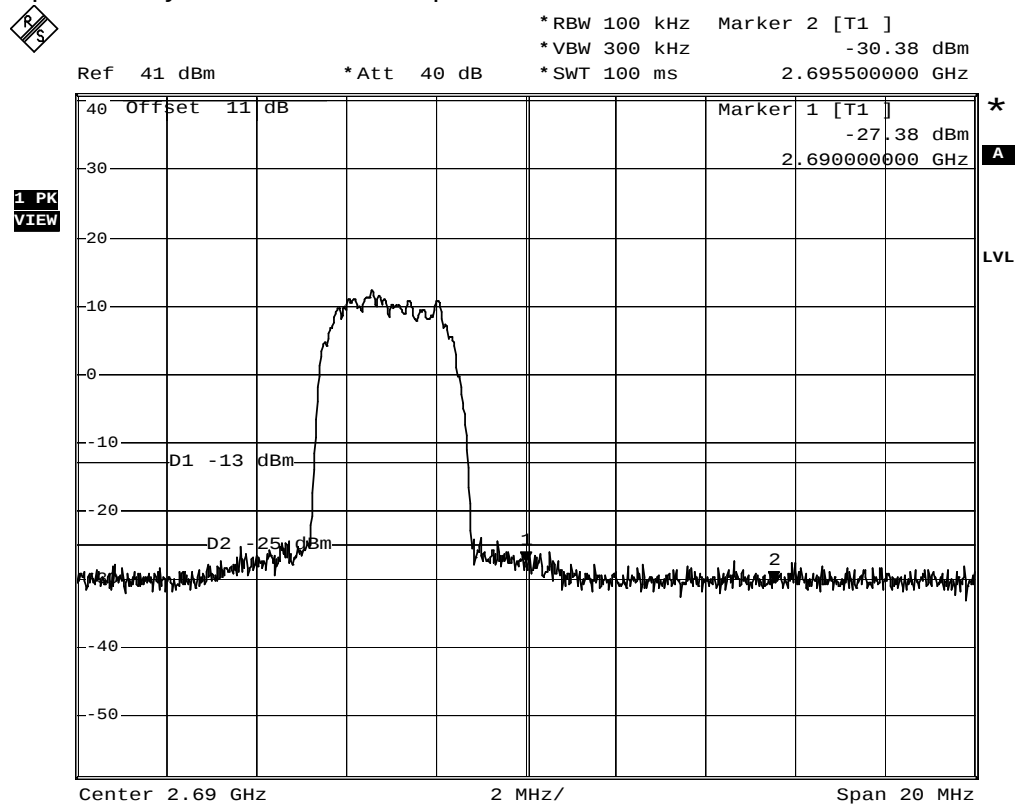
Date: 20.JAN.2012 12:54:28

Test Mode: MODE 5

Modulation Type: 16QAM

2687.0 MHz

Upstream Symbol Rate: 2560 kps



Comment: A:\2

Date: 20.JAN.2012 13:00:18

5. Conducted Spurious Emission

5.1. Test Equipment

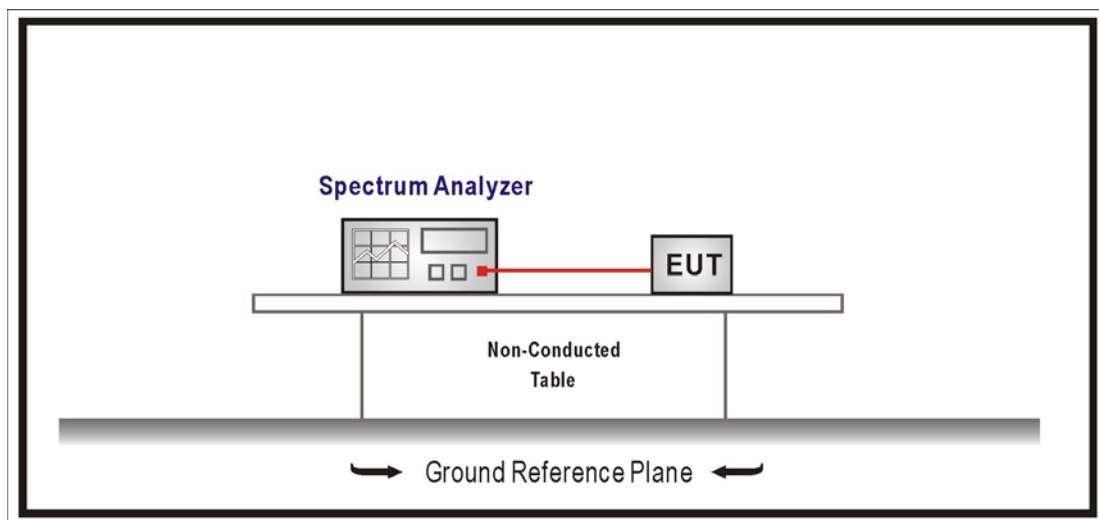
The following test equipments are used during the test:

Conducted Spurious Emission/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/01/16

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges

Sample Calculation:

Assume the EUT Output Power is 2 W = 33 dBm

$$43 + \log (P) \text{ dB}$$

$$43 + \log (2) = 46 \text{ dB}$$

$$33 \text{ dBm} - 46 \text{ dB} = -13 \text{ dBm}$$

$$55 + \log (2) = 58 \text{ dB}$$

$$33 \text{ dBm} - 58 \text{ dB} = -25 \text{ dBm}$$

5.4. Test Procedure

The EUT was set up for the rated peak power. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels: low, middle and high operational frequency range.

When the spectrum scanned from 30MHz to 27GHz, it connected to the 10dB attenuator to the carried frequency. The spectrum set RBW = 1MHz, VBW = 3MHz. and using peak detection mode.

5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

Product	BRS/EBS Transceiver		
Test Item	Conducted Spurious Emission		
Test Mode	Transmit		
Date of Test	2012/1/20	Test Site	SR7

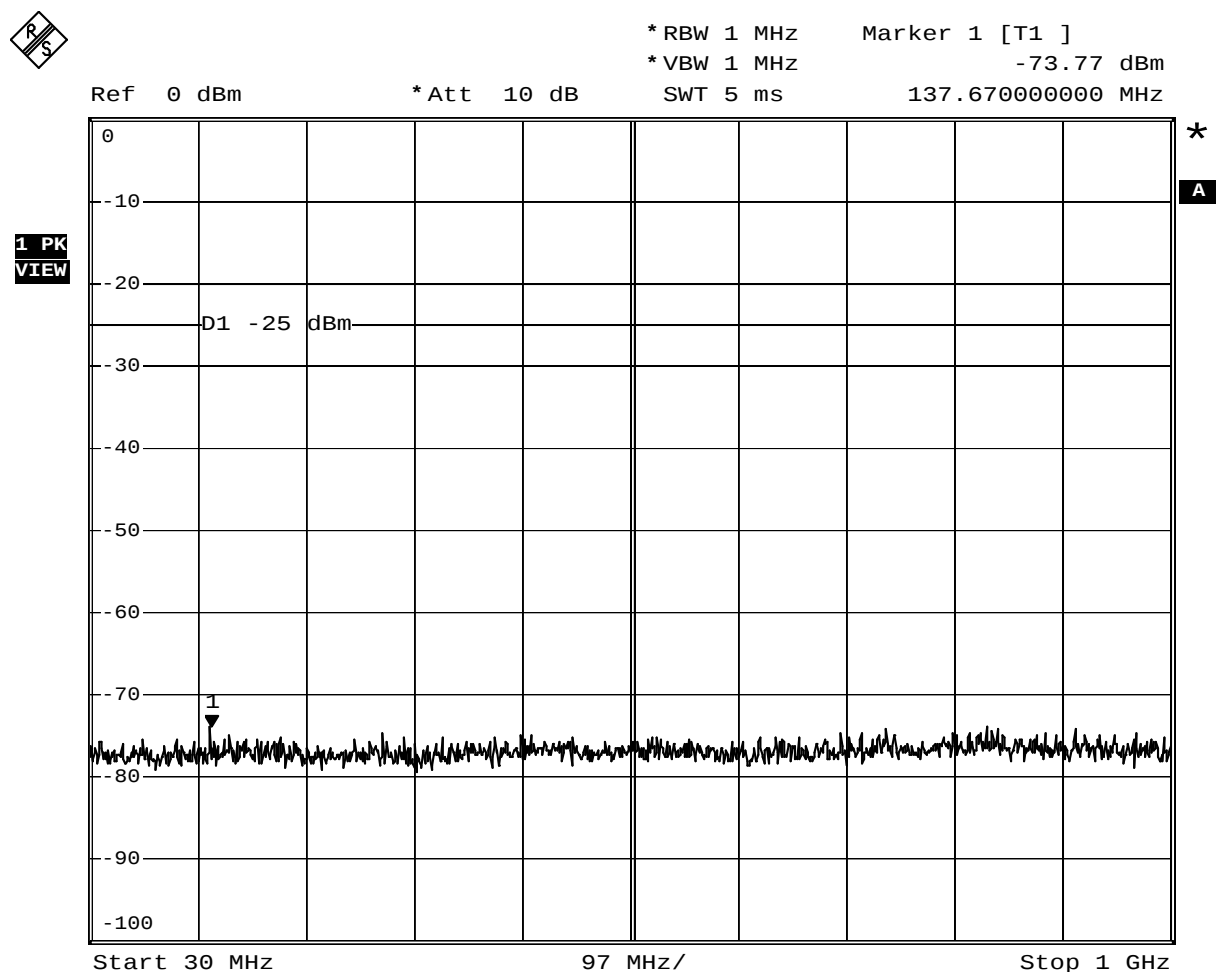
Test Mode: Mode 1

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 160 ksps

30MHz-1000MHz



Comment: A:\2

Date: 20.JAN.2012 13:13:05

Test Mode: Mode 1

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 160 ksps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-65.92 dBm

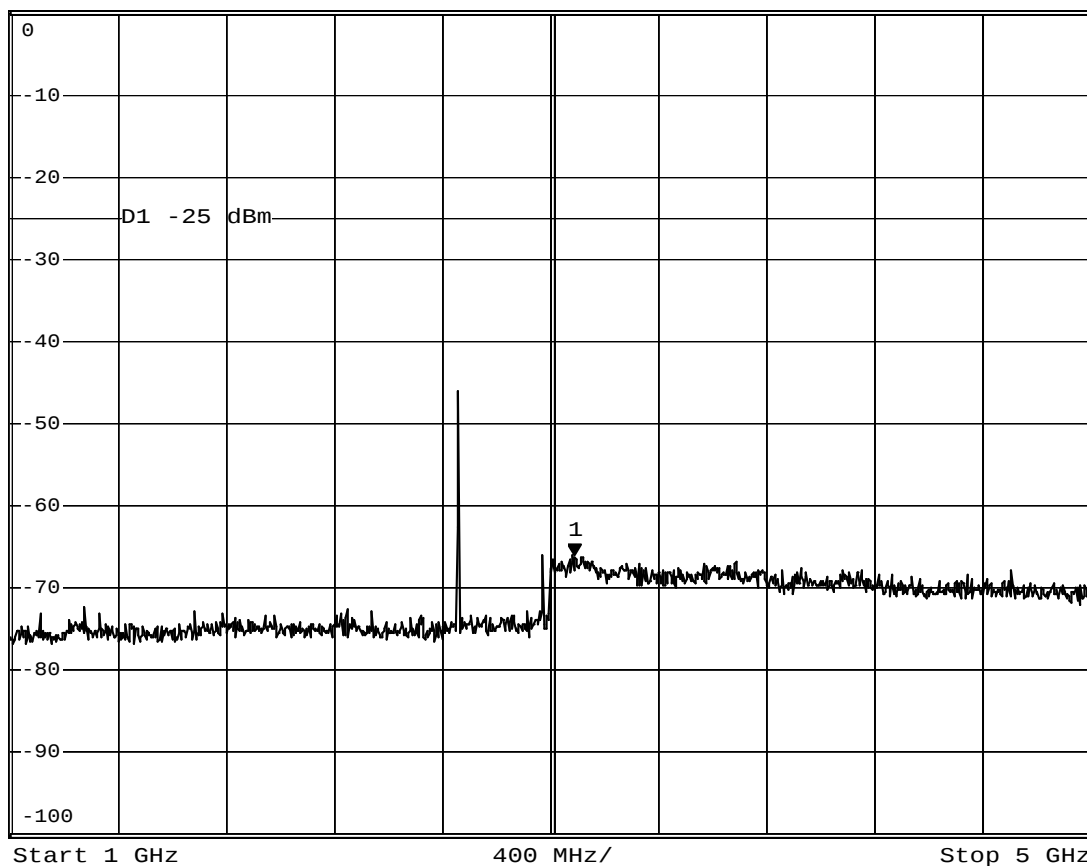
Ref 0 dBm

*Att 10 dB

SWT 80 ms

3.084000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:13:35

Test Mode: Mode 1

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 160 ksps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -45.32 dBm
 SWT 440 ms 10.632000000 GHz

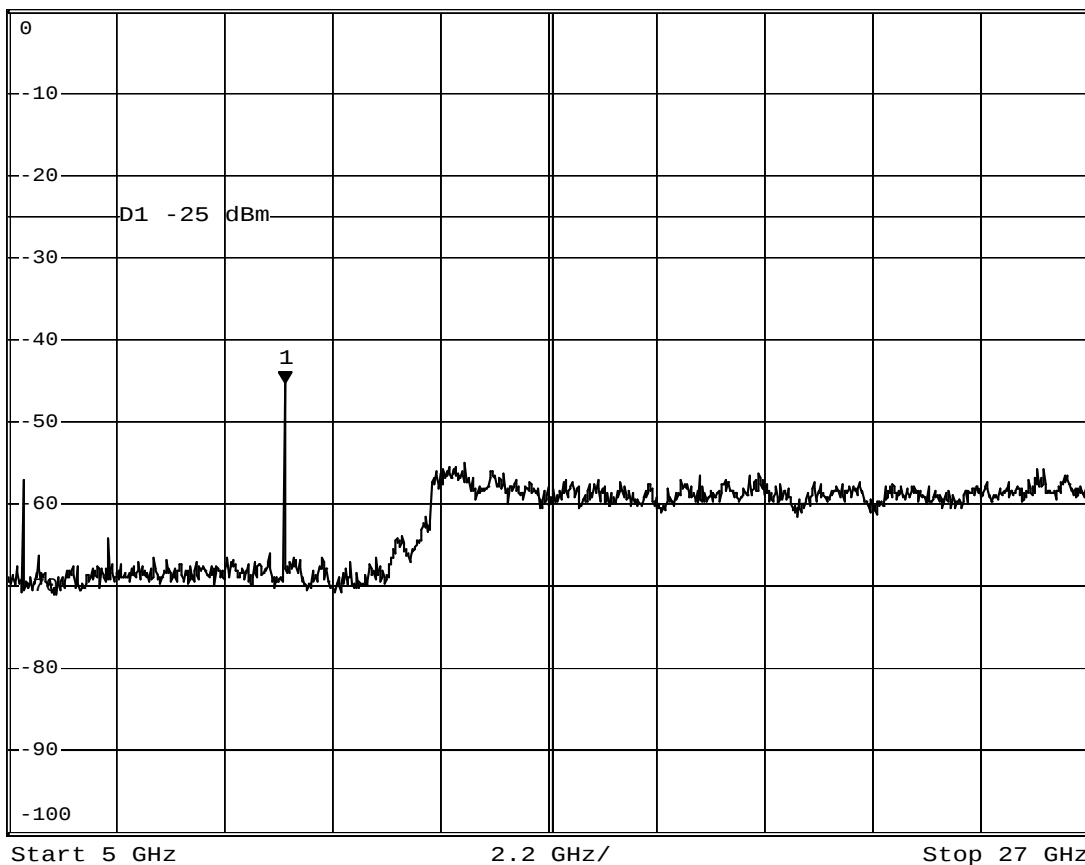
Ref 0 dBm

*Att 10 dB

SWT 440 ms

10.632000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:16:34

Test Mode: Mode 1

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 160 ksps

30MHz-1000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-73.37 dBm

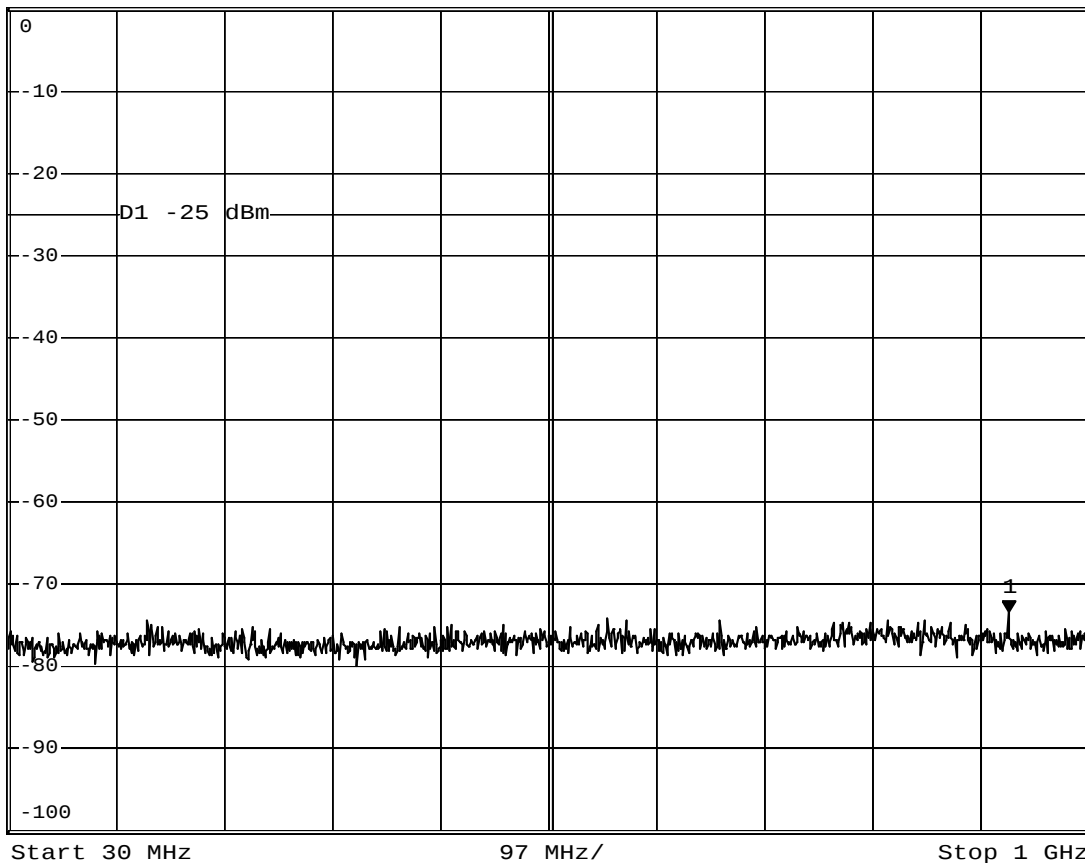
Ref 0 dBm

*Att 10 dB

SWT 5 ms

928.220000000 MHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:19:34

Test Mode: Mode 1

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 160 ksps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-47.55 dBm

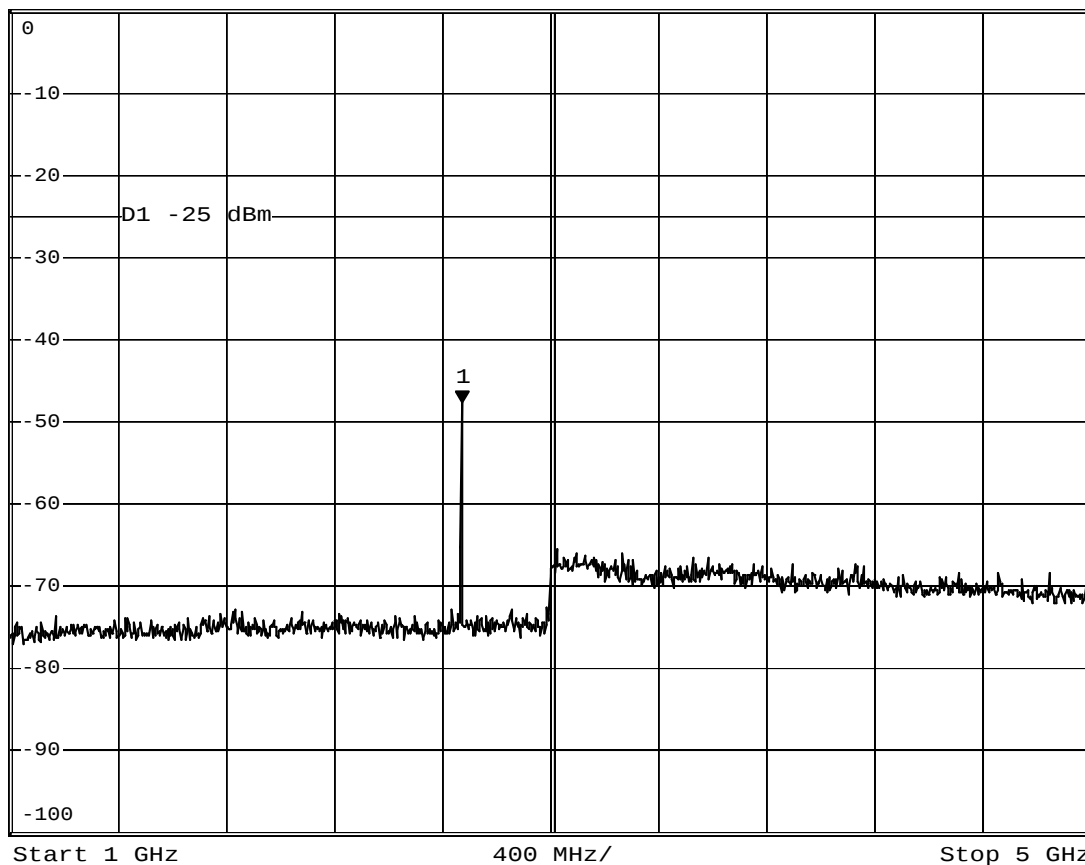
Ref 0 dBm

*Att 10 dB

SWT 80 ms

2.672000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:19:08

Test Mode: Mode 1

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 160 ksps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -54.42 dBm
 SWT 440 ms 14.900000000 GHz

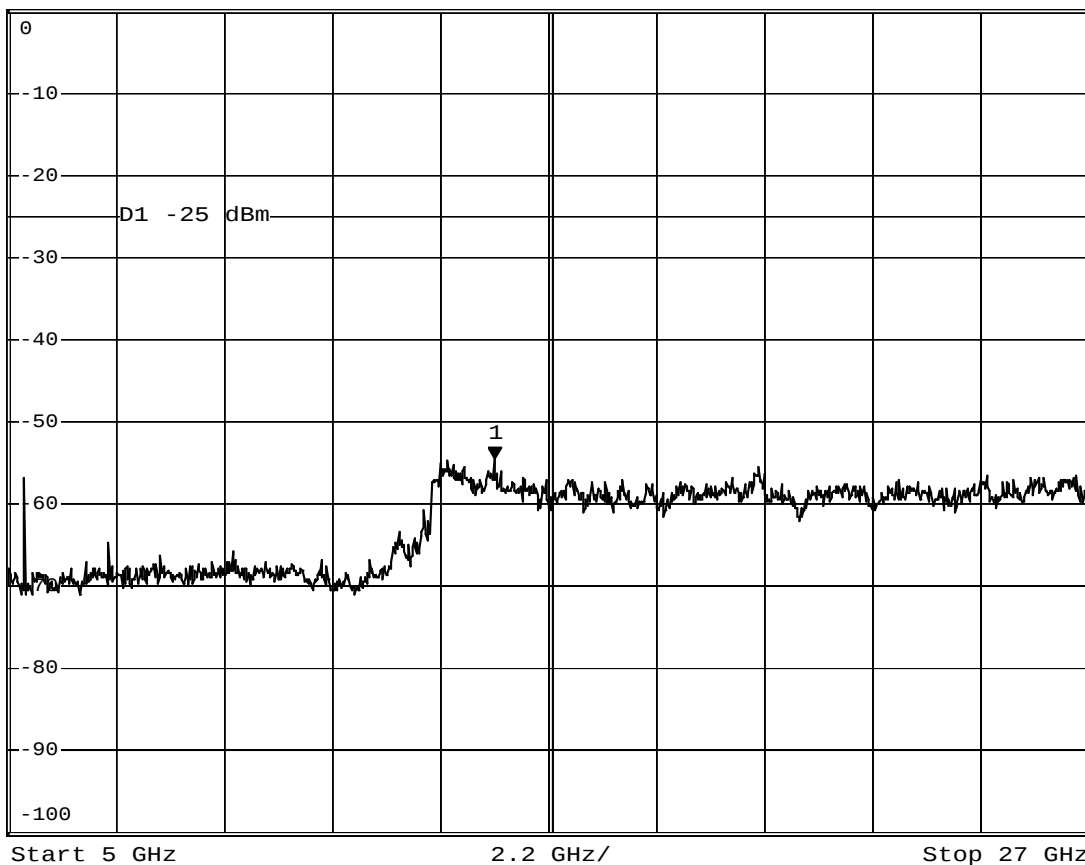
Ref 0 dBm

*Att 10 dB

SWT 440 ms

14.900000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:17:51

Test Mode: Mode 1

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 160 ksp/s

30MHz-1000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-74.43 dBm

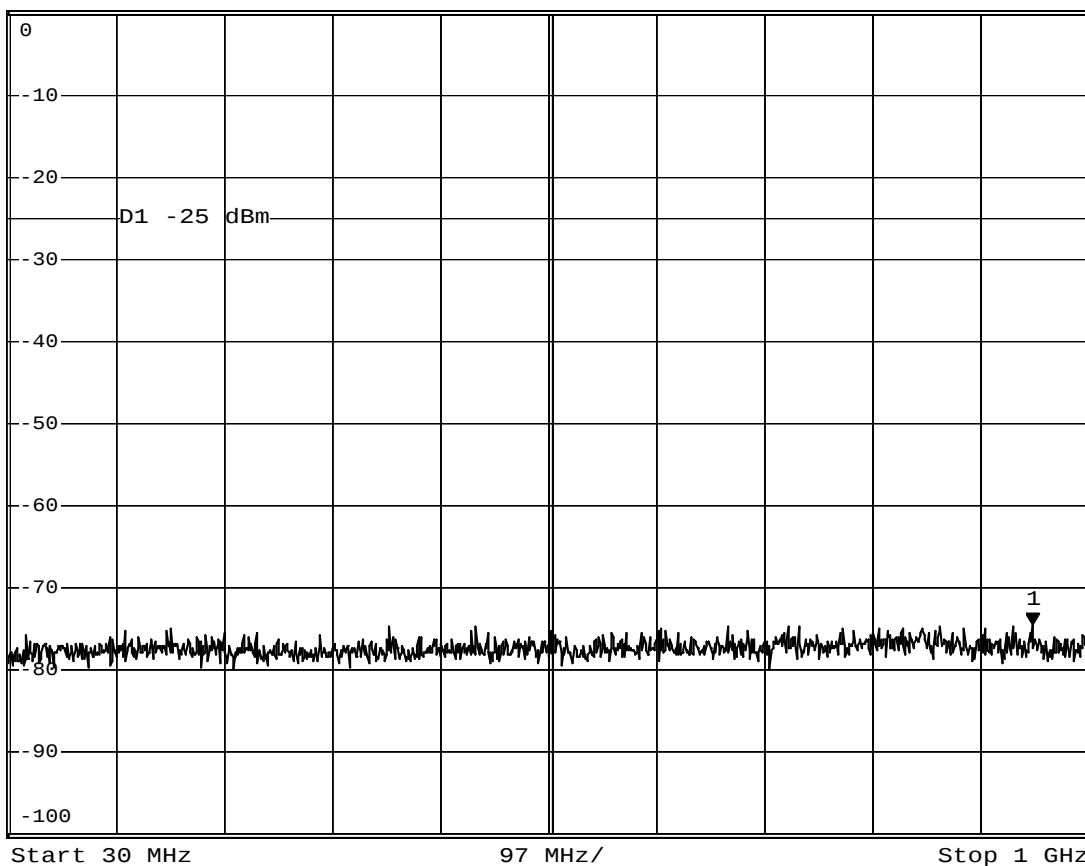
SWT 5 ms

949.560000000 MHz

Ref 0 dBm

*Att 10 dB

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:21:01

Test Mode: Mode 1

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 160 ksps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-61.88 dBm

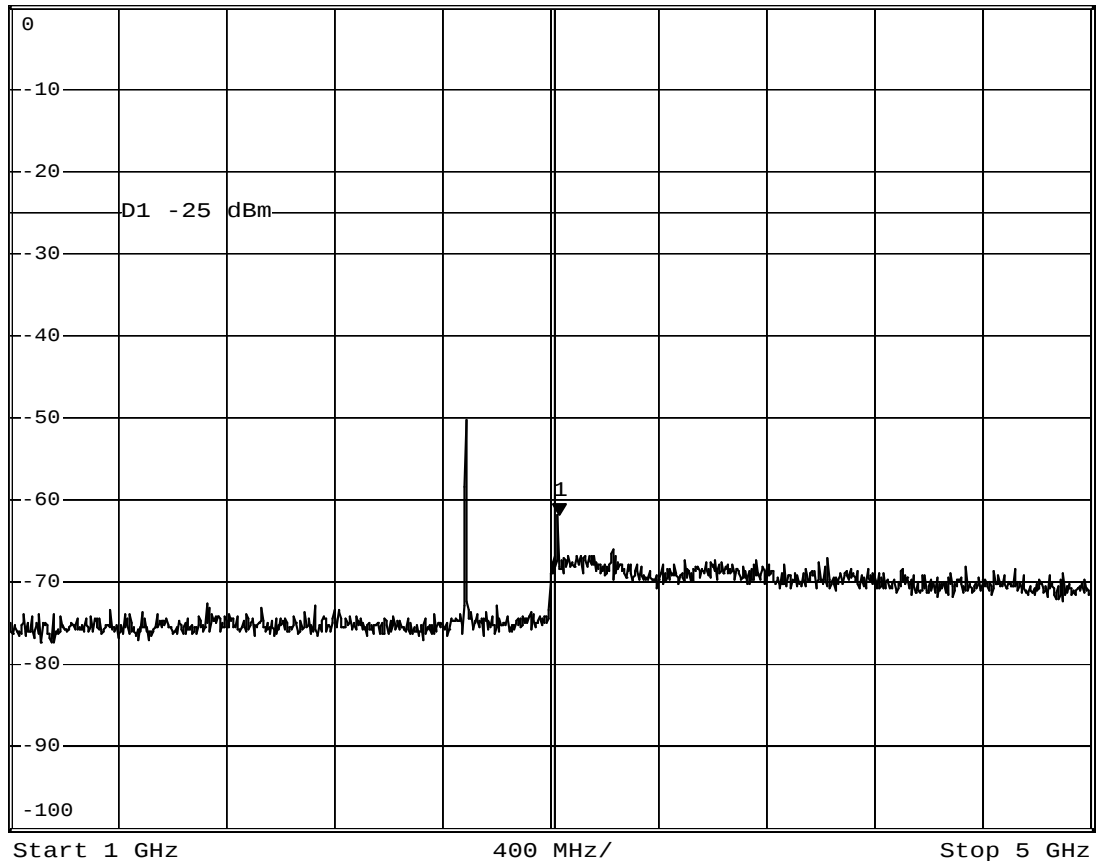
Ref 0 dBm

*Att 10 dB

SWT 80 ms

3.028000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:21:30

Test Mode: Mode 1

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 160 ksps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.35 dBm
 SWT 440 ms 10.742000000 GHz

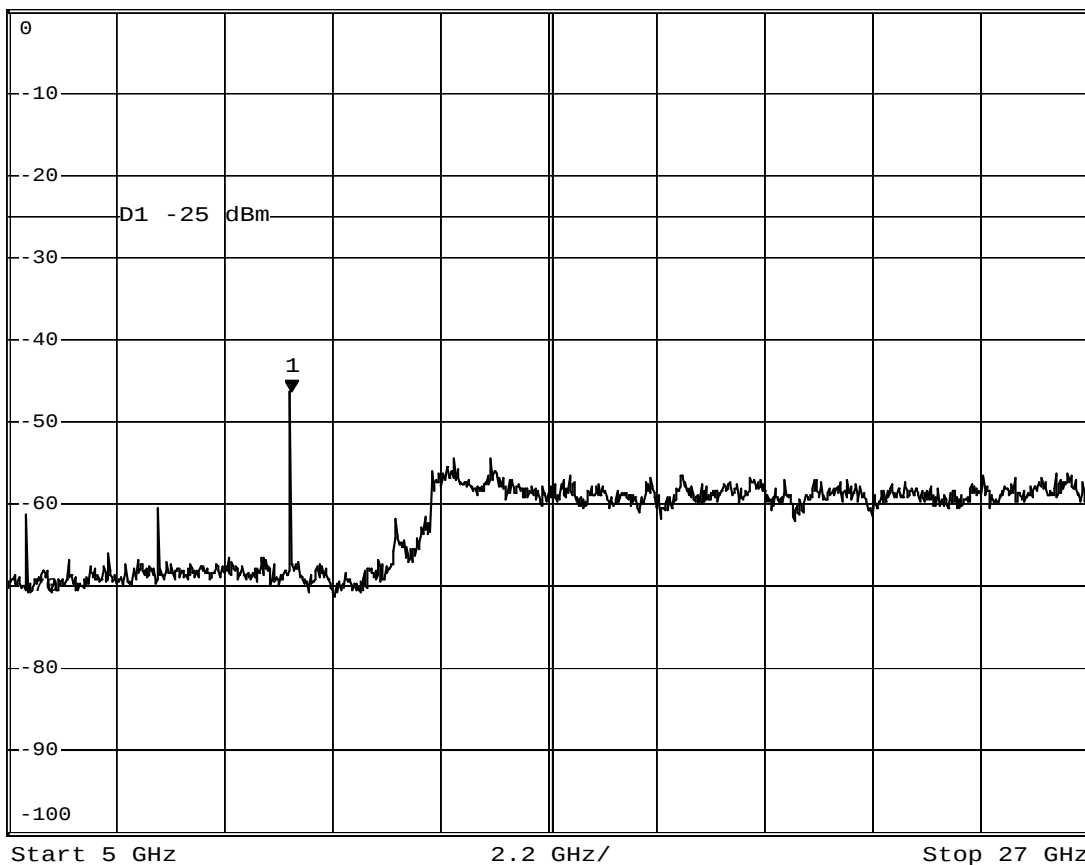
Ref 0 dBm

*Att 10 dB

SWT 440 ms

10.742000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:22:32

Test Mode: Mode 5

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 2560 ksps

30MHz-1000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-73.65 dBm

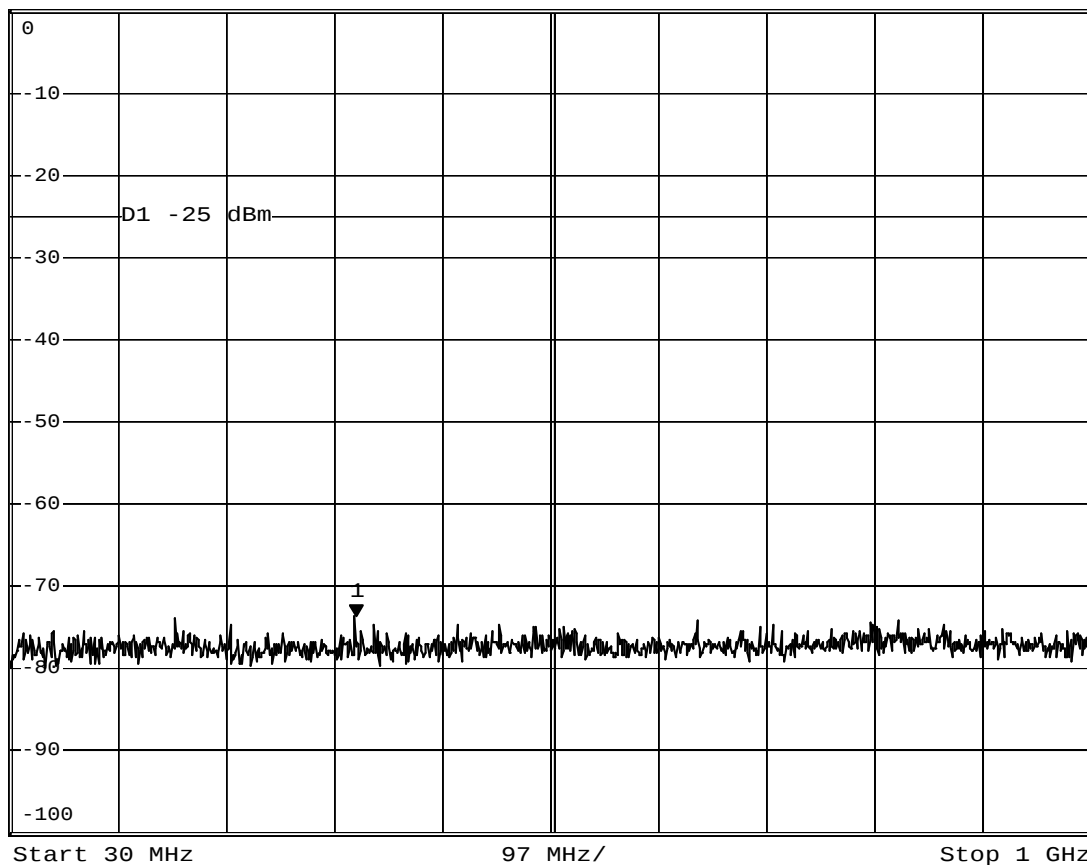
Ref 0 dBm

*Att 10 dB

SWT 5 ms

339.430000000 MHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:12:45

Test Mode: Mode 5

Modulation Type: 16QAM

2659.0 MHz

Upstream Symbol Rate: 2560 ksps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-65.96 dBm

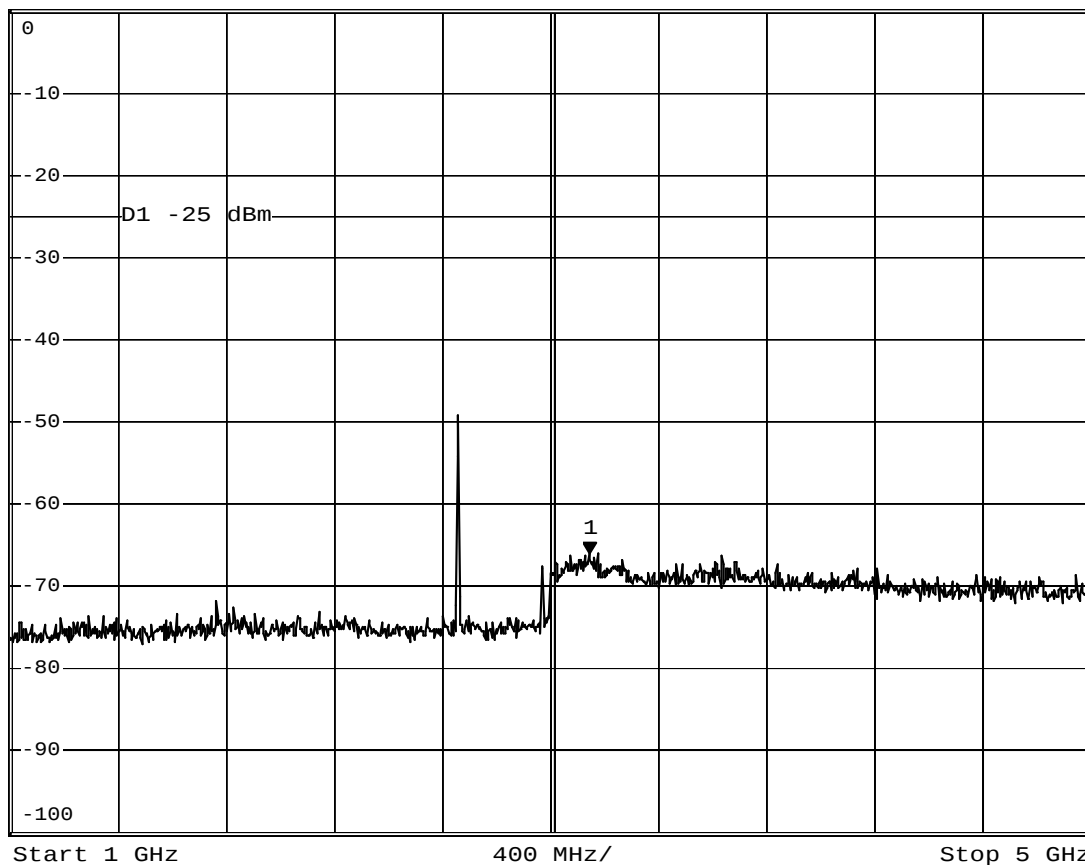
Ref 0 dBm

*Att 10 dB

SWT 80 ms

3.144000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:14:05

Test Mode: Mode 5

Modulation Type: 16QAM

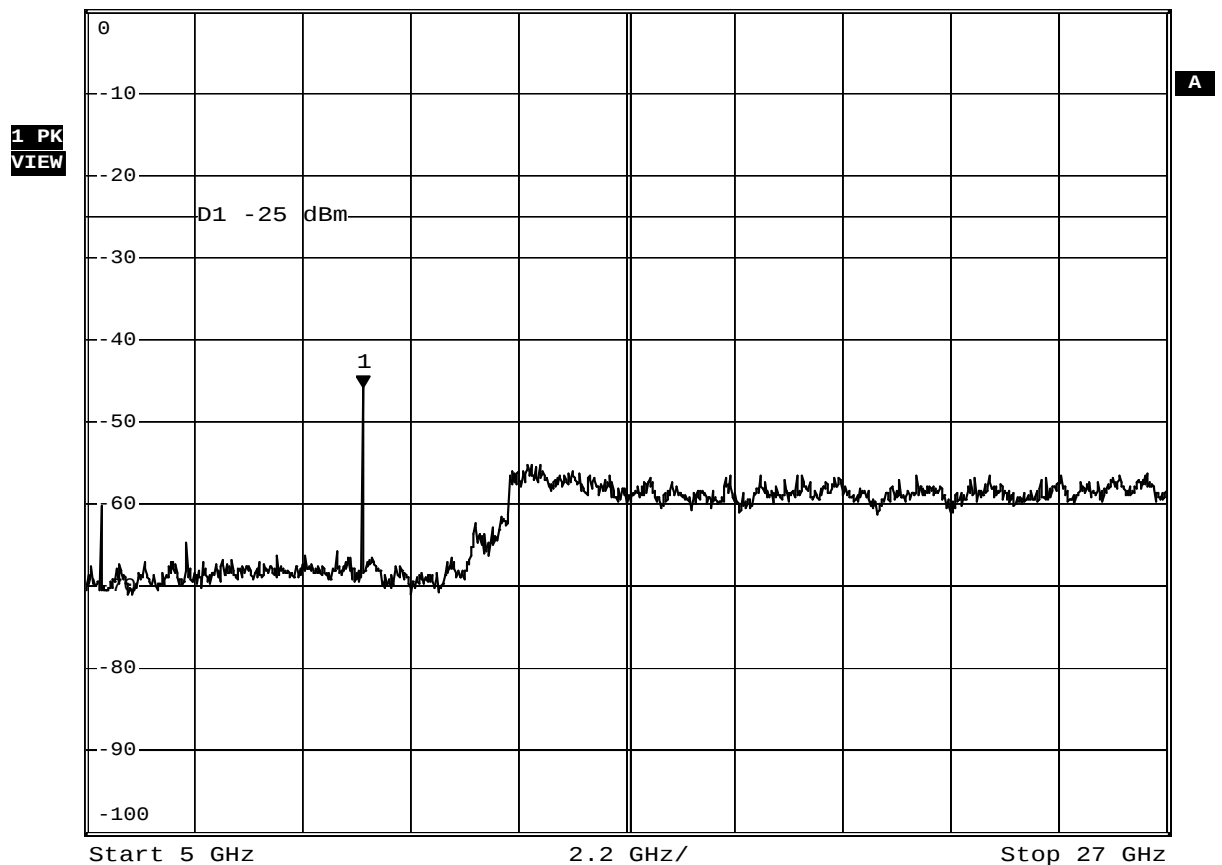
2659.0 MHz

Upstream Symbol Rate: 2560 kps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -45.88 dBm
 Ref 0 dBm *Att 10 dB SWT 440 ms 10.632000000 GHz



Comment: A:\2

Date: 20.JAN.2012 13:16:13

Test Mode: Mode 5

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 2560 ksps

30MHz-1000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -74.10 dBm
 SWT 5 ms 828.310000000 MHz

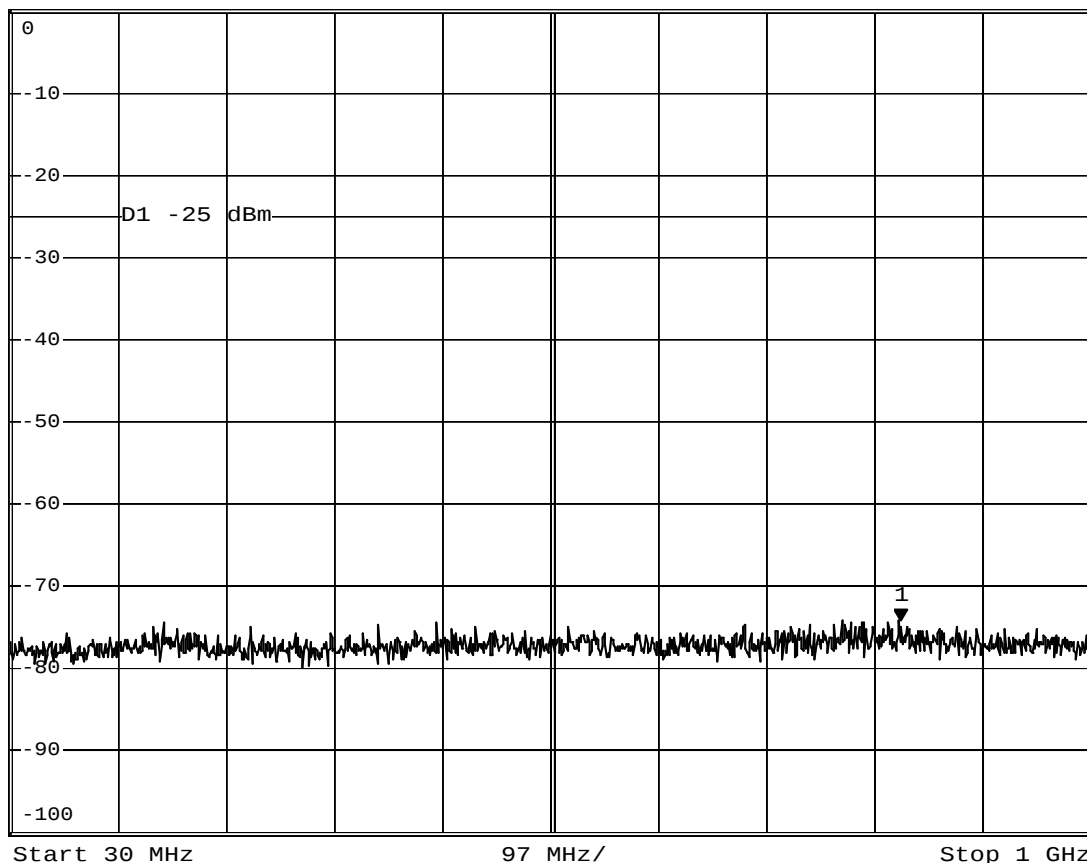
Ref 0 dBm

*Att 10 dB

SWT 5 ms

828.310000000 MHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:19:56

Test Mode: Mode 5

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 2560 ksps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

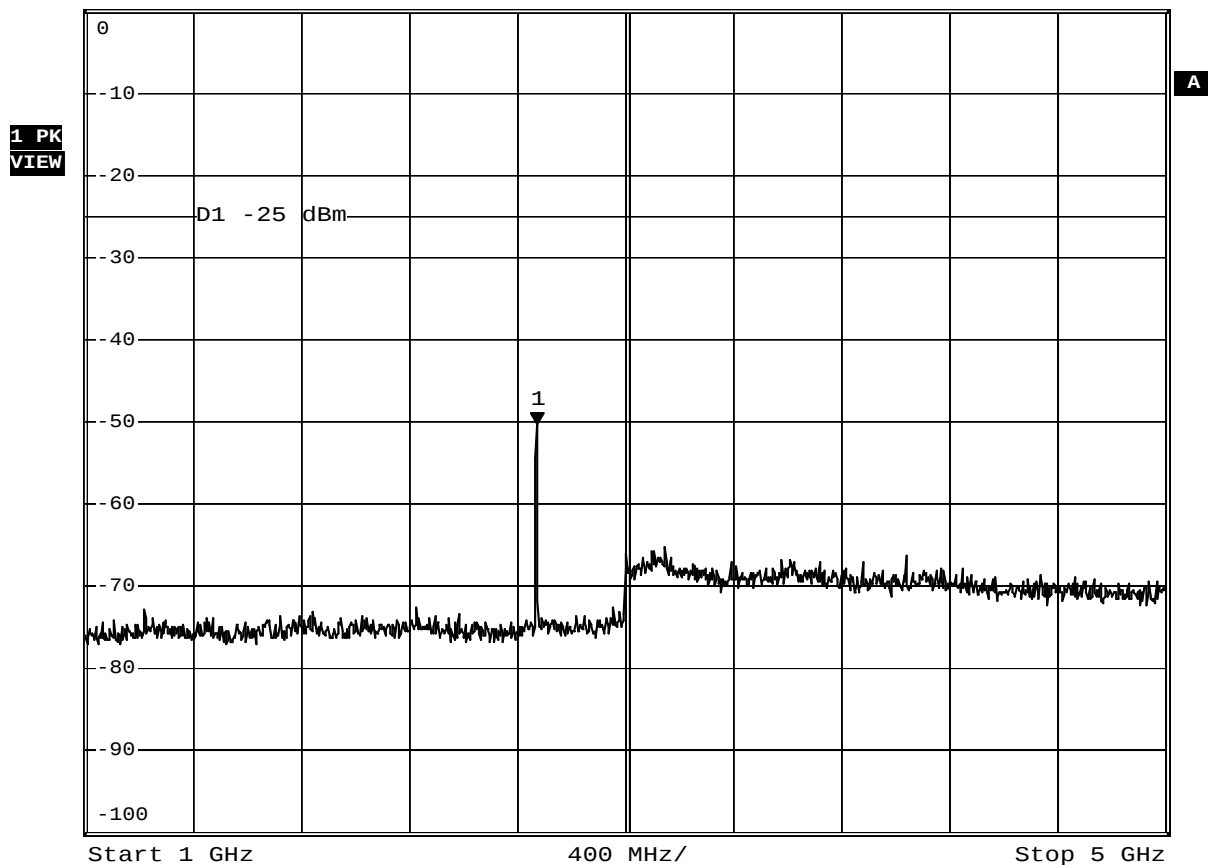
-50.28 dBm

Ref 0 dBm

*Att 10 dB

SWT 80 ms

2.672000000 GHz



Comment: A:\2

Date: 20.JAN.2012 13:18:47

Test Mode: Mode 5

Modulation Type: 16QAM

2671.5 MHz

Upstream Symbol Rate: 2560 ksps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -55.35 dBm
 SWT 440 ms 13.844000000 GHz

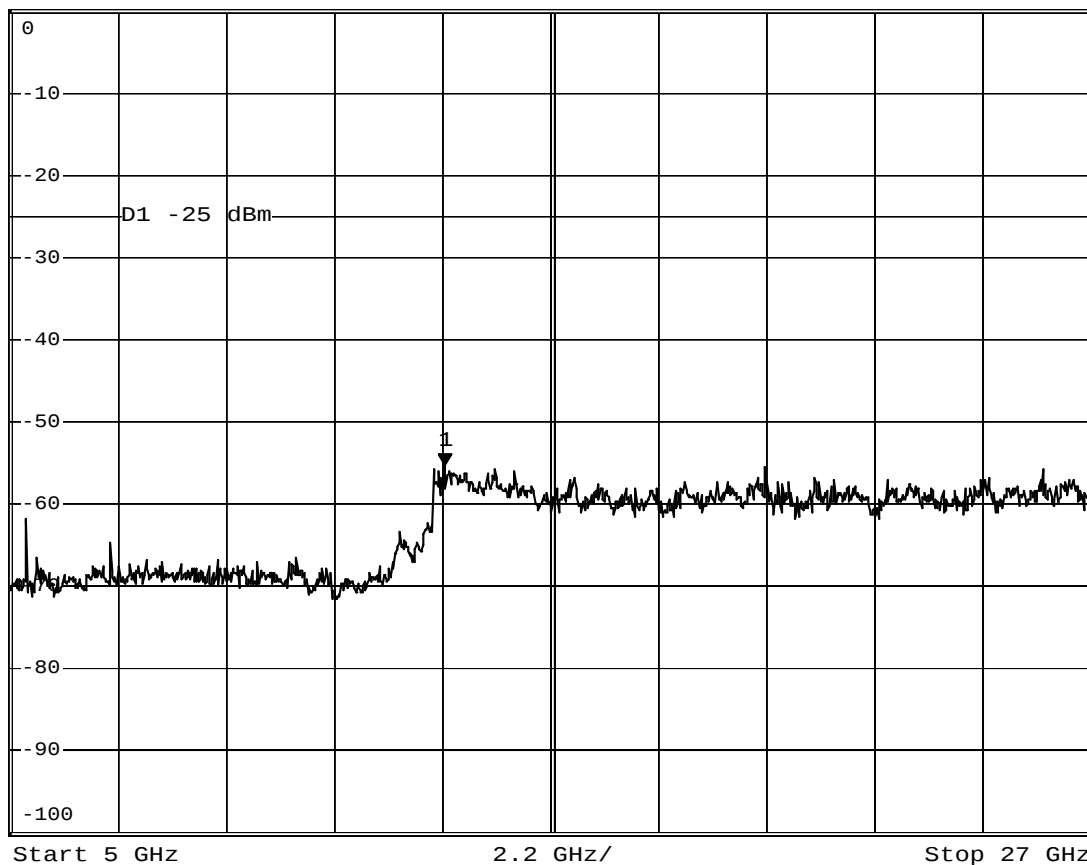
Ref 0 dBm

*Att 10 dB

SWT 440 ms

13.844000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:18:21

Test Mode: Mode 5

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 2560 ksps

30MHz-1000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-72.79 dBm

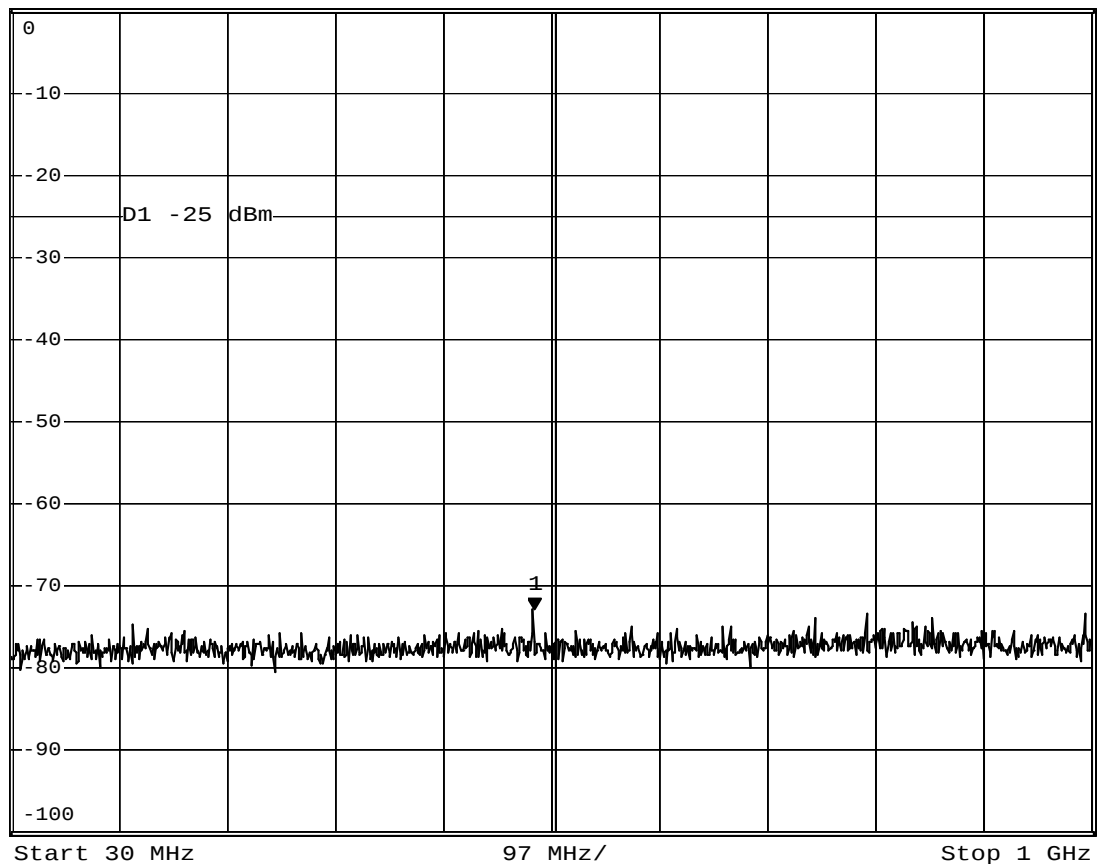
SWT 5 ms

498.510000000 MHz

Ref 0 dBm

*Att 10 dB

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:20:34

Test Mode: Mode 5

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 2560 kps

1000MHz-5000MHz



*RBW 1 MHz

Marker 1 [T1]

*VBW 1 MHz

-63.83 dBm

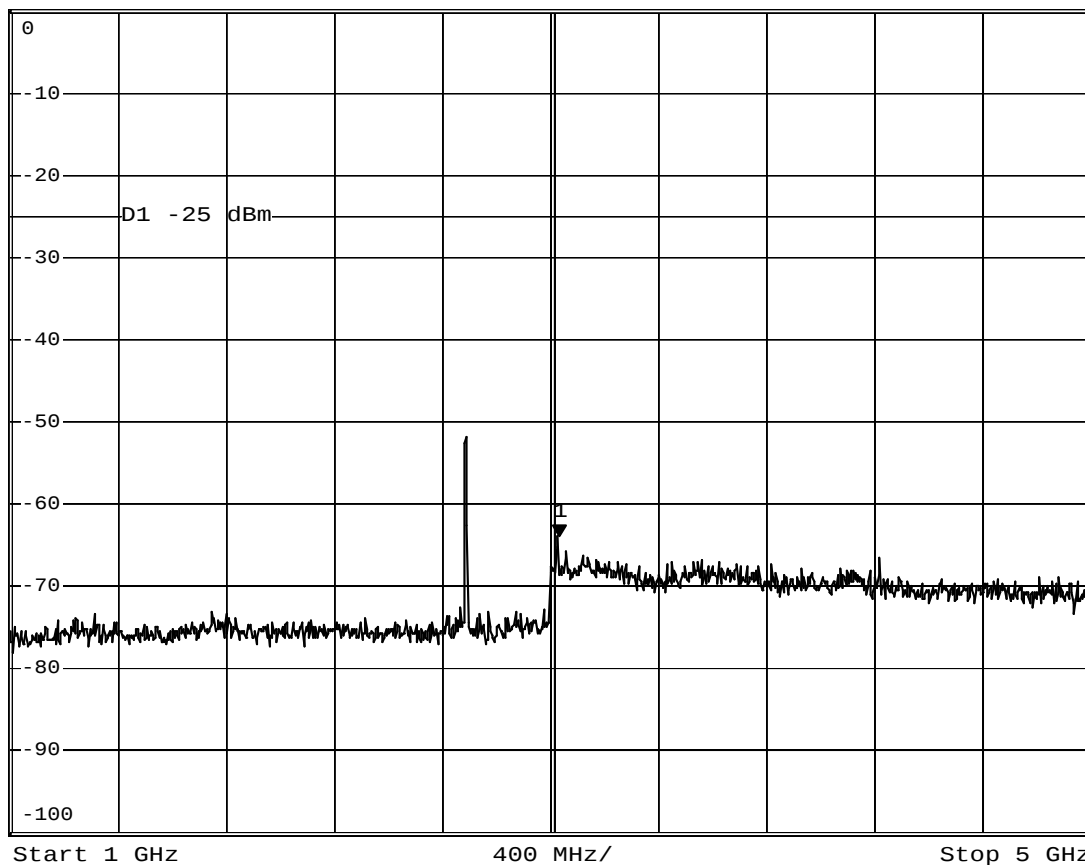
Ref 0 dBm

*Att 10 dB

SWT 80 ms

3.028000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:21:48

Test Mode: Mode 5

Modulation Type: 16QAM

2687.0MHz

Upstream Symbol Rate: 2560 ksps

5000MHz-27000MHz



*RBW 1 MHz Marker 1 [T1]
 *VBW 1 MHz -46.63 dBm
 SWT 440 ms 10.742000000 GHz

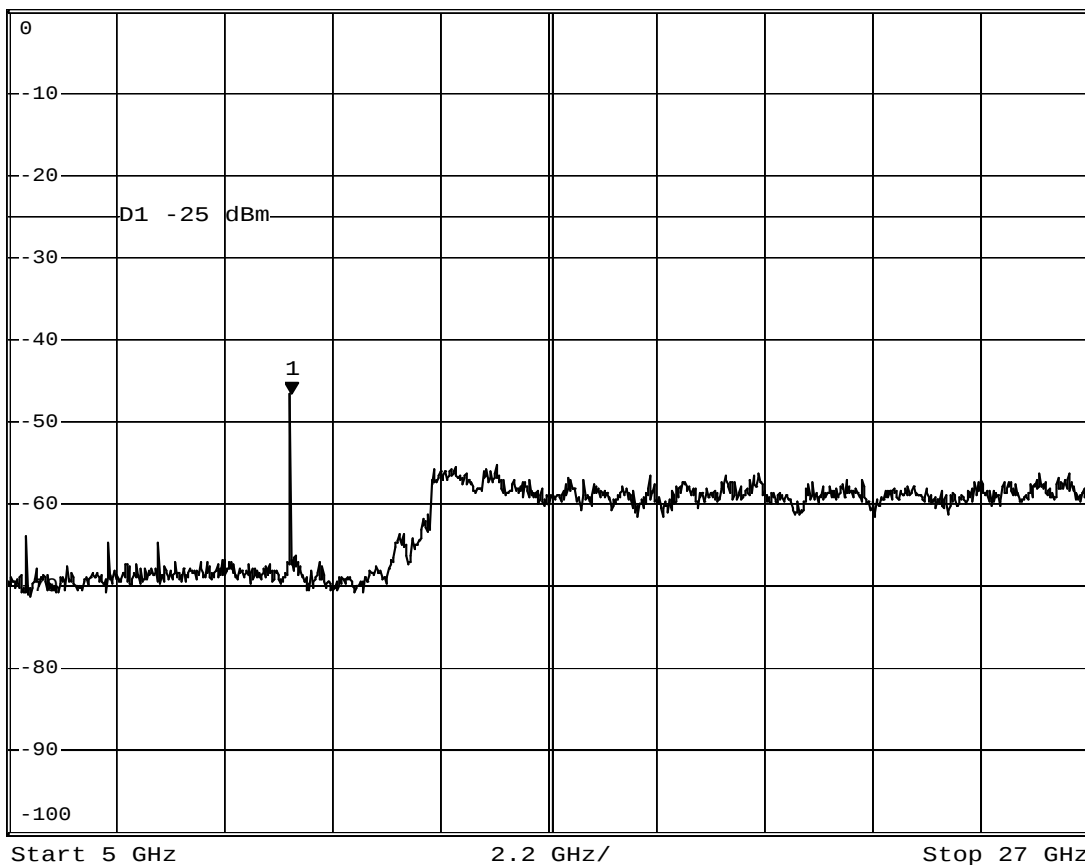
Ref 0 dBm

*Att 10 dB

SWT 440 ms

10.742000000 GHz

1 PK
VIEW



Comment: A:\2

Date: 20.JAN.2012 13:22:08

6. Radiated Spurious Emission

6.1. Test Equipment

The following test equipments are used during the test:

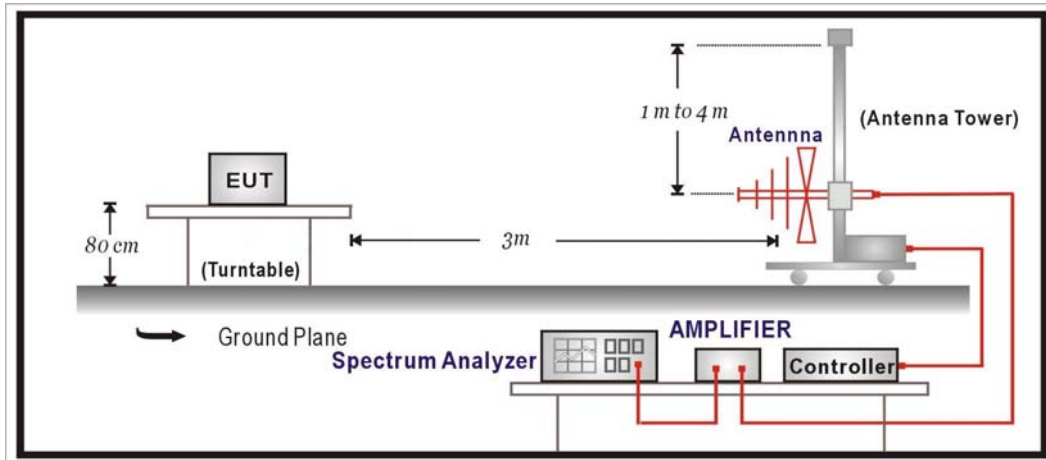
Radiated Spurious Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2012/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2012/02/24
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2012/03/10
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/01/08
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2012/03/21

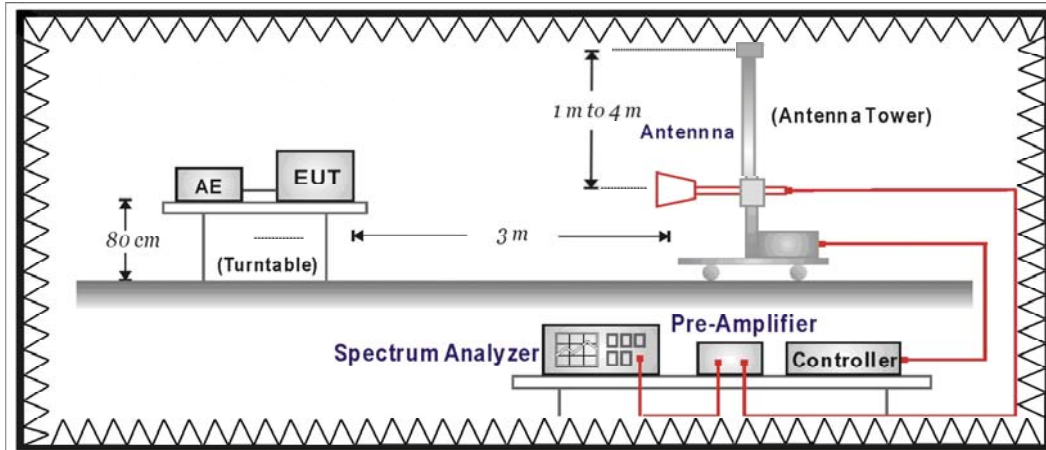
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

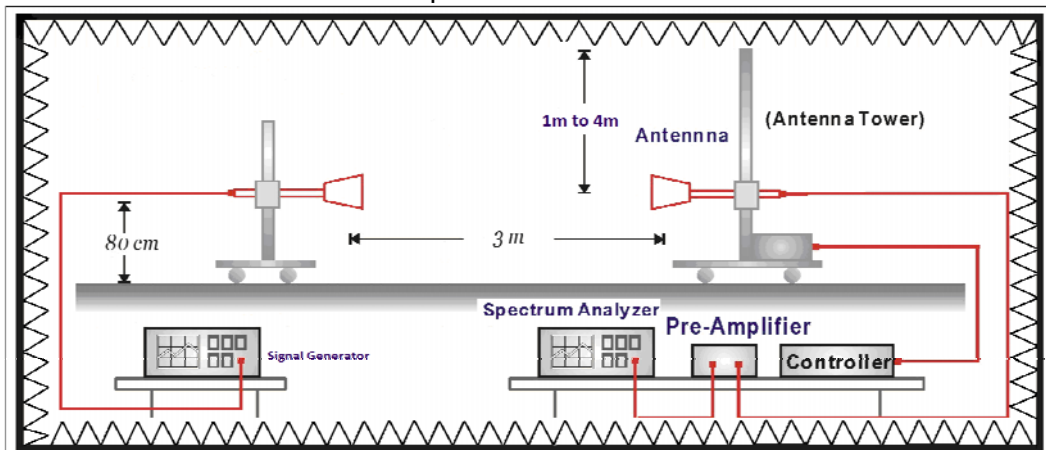
Under 1GHz Test Setup:



Above 1GHz Test Setup: RF Radiated Measurement:



Substitution Measurement Setup:



Measure Level = Signal Generator-Cable Loss + Antenna Gain

6.3. Limits

- (1) Fixed and Temporary Fixed Digital Stations: not less than $43 + \log (P)$ dB.
- (2) Mobile Digital Stations: not less than $43 + \log (P)$ dB at the channel edge and $55 + \log (P)$ dB at 5.5 MHz from the channel edges.

Sample Calculation:

Assume the EUT Output Power is $2 \text{ W} = 33 \text{ dBm}$

$43 + \log (P) \text{ dB}$

$43 + \log (2) = 46 \text{ dB}$

$33 \text{ dBm} - 46 \text{ dB} = -13 \text{ dBm}$

$55 + \log (2) = 58 \text{ dB}$

$33 \text{ dBm} - 58 \text{ dB} = -25 \text{ dBm}$

6.4. Test Procedure

For measuring E.I.R.P peak power, EUT was placed on the turn-table which was rotated around 360 degrees to search the maximum radiation power and receiver antenna was rotated vertical and horizontal polarization to find the maximum polarization radiated power.

The EUT is replaced by a horn antenna connected to a signal generator tuned to the frequency of emission and level of signal generator adjusted to same level of emission. Both horizontal and vertical polarization of the antenna are set on measurement.

On any frequency, the limits shown are based on measuring equipment employing a peak detector function. The resolution bandwidth of spectrum analyzer is 1MHz. and video bandwidth is 3MHz.

The radiated E.I.R.P power was calculated via the Correct factor, Reading Level, and Antenna gain as follows:

$$\text{E.I.R.P} = \text{Reading Level} + \text{Correct Factor} = \text{S.G.} - \text{Cable Loss} + \text{Antenna Gain}$$

6.5. Uncertainty

The measurement uncertainty

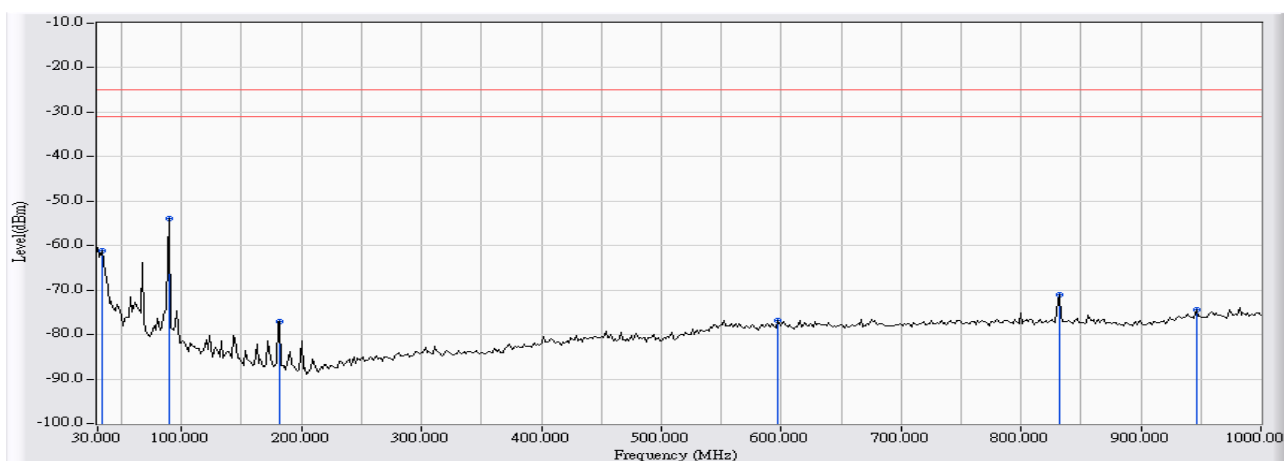
30MHz~1GHz as $\pm 3.19 \text{ dB}$

1GHz~27GHz as $\pm 3.9 \text{ dB}$

6.6. Test Result

30 MHz – 1 GHz Spurious:

Site : CB1	Time : 2012/01/20 - 13:10
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:Transmit

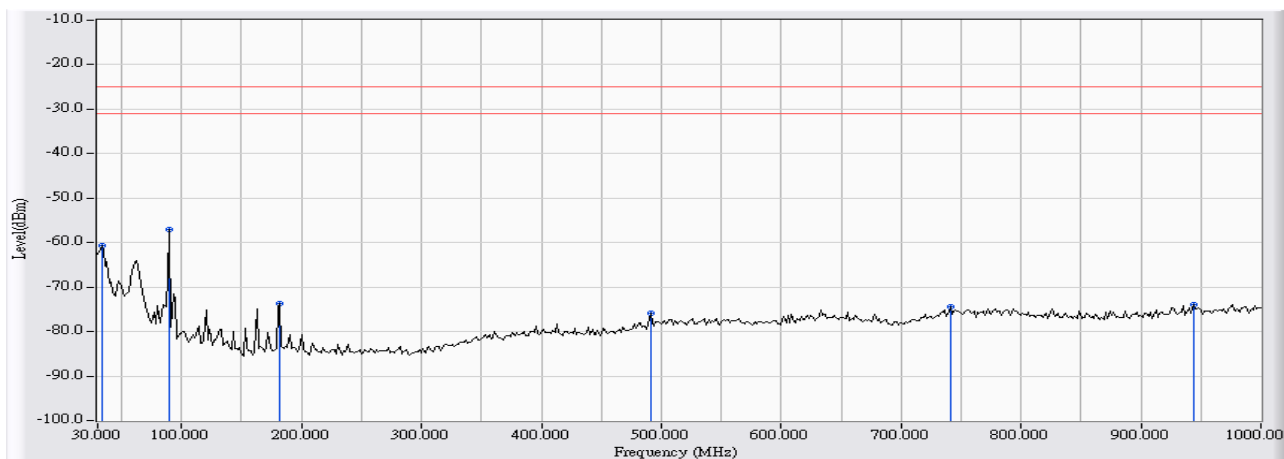


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		33.233	11.647	-72.804	-61.157	-36.157	-25.000	PEAK
2	*	89.817	2.552	-56.390	-53.838	-28.838	-25.000	PEAK
3		181.967	-2.299	-74.790	-77.089	-52.089	-25.000	PEAK
4		597.450	6.748	-83.571	-76.822	-51.822	-25.000	PEAK
5		831.867	8.353	-79.435	-71.082	-46.082	-25.000	PEAK
6		946.650	9.624	-83.983	-74.359	-49.359	-25.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	Time : 2012/01/20 - 13:07
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:Transmit

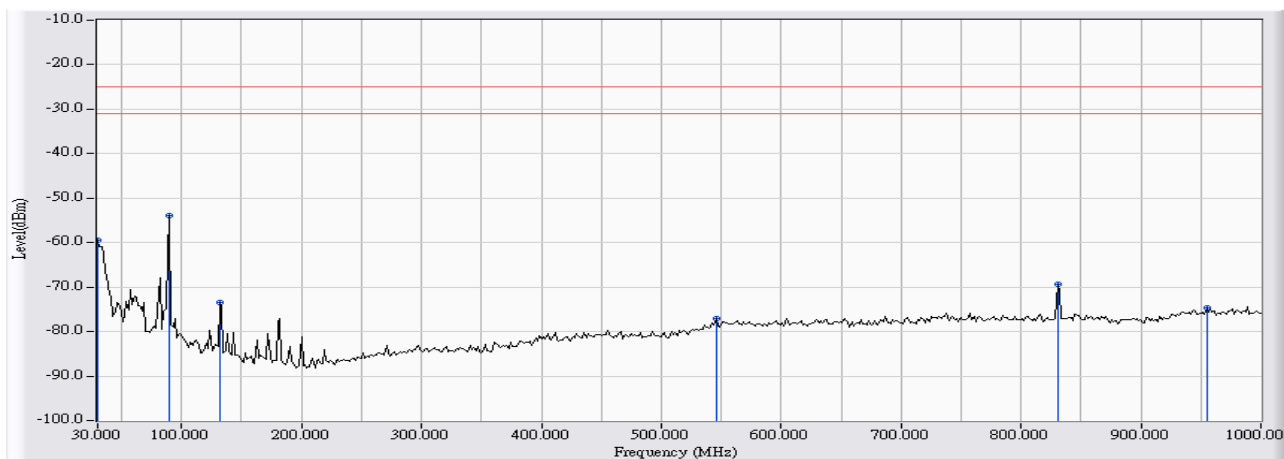


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		33.233	4.771	-65.468	-60.697	-35.697	-25.000	PEAK
2	*	89.817	2.793	-59.759	-56.965	-31.965	-25.000	PEAK
3		181.967	0.795	-74.602	-73.806	-48.806	-25.000	PEAK
4		490.750	6.609	-82.500	-75.892	-50.892	-25.000	PEAK
5		741.333	9.240	-83.753	-74.514	-49.514	-25.000	PEAK
6		943.417	9.975	-83.872	-73.897	-48.897	-25.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	Time : 2012/01/20 - 13:13
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode2:Transmit

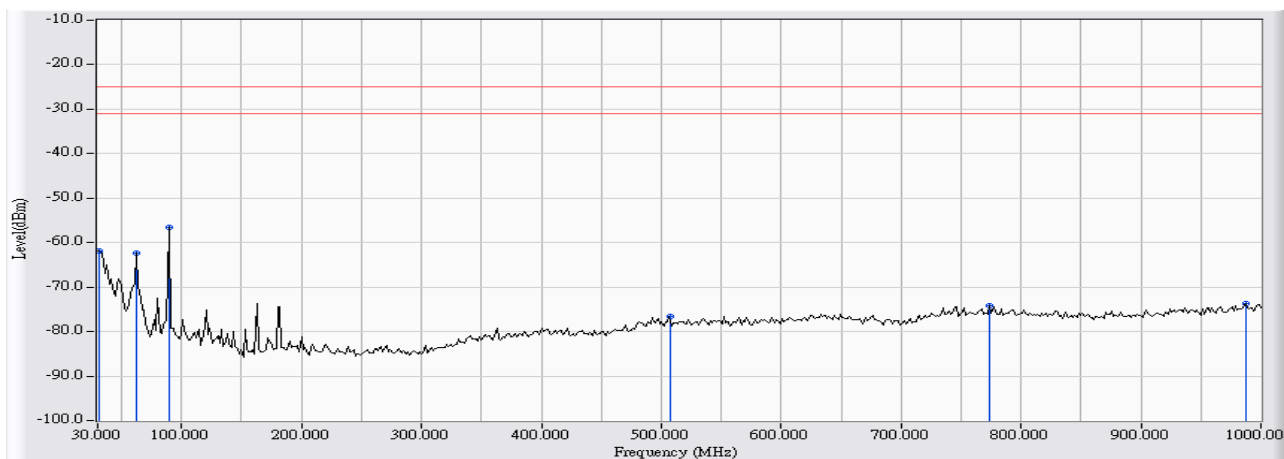


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		30.000	12.280	-71.783	-59.503	-34.503	-25.000	PEAK
2	*	89.817	2.552	-56.529	-53.977	-28.977	-25.000	PEAK
3		131.850	-0.631	-72.778	-73.410	-48.410	-25.000	PEAK
4		545.717	6.515	-83.665	-77.151	-52.151	-25.000	PEAK
5		830.250	8.338	-77.701	-69.362	-44.362	-25.000	PEAK
6		954.733	9.771	-84.548	-74.777	-49.777	-25.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	Time : 2012/01/20 - 13:18
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_30-1G-1_0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode2:Transmit



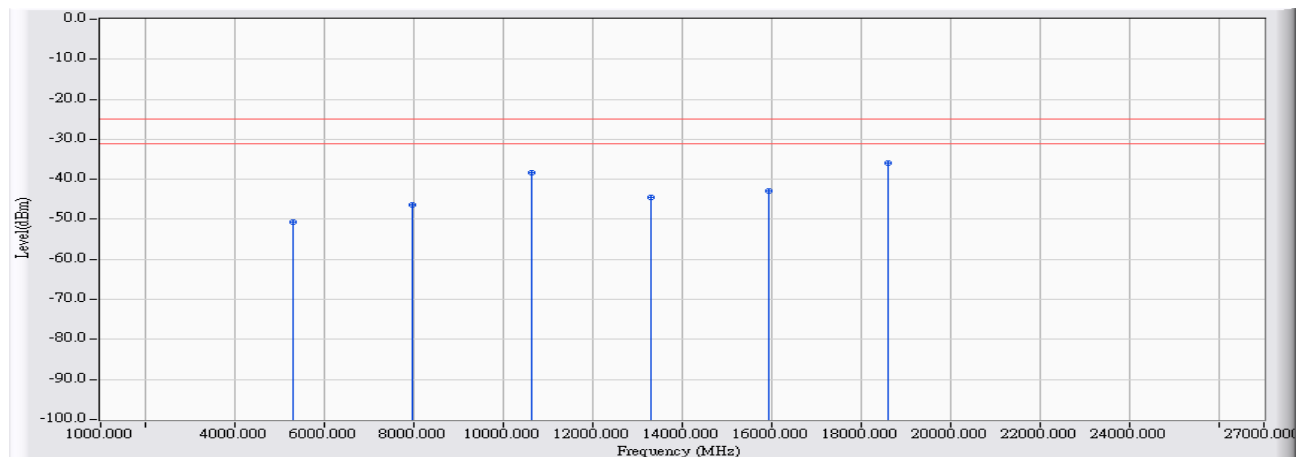
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		31.617	4.665	-66.658	-61.993	-36.993	-25.000	PEAK
2		62.333	3.190	-65.556	-62.365	-37.365	-25.000	PEAK
3	*	89.817	2.793	-59.359	-56.565	-31.565	-25.000	PEAK
4		506.917	7.037	-83.750	-76.713	-51.713	-25.000	PEAK
5		773.667	9.534	-83.758	-74.224	-49.224	-25.000	PEAK
6		987.067	10.730	-84.502	-73.772	-48.772	-25.000	PEAK

Note:

1. All Reading Levels are Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

1 GHz – 26 GHz Spurious:

Site : CB1	Time : 2012/01/20 - 13:23
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2659MHz)

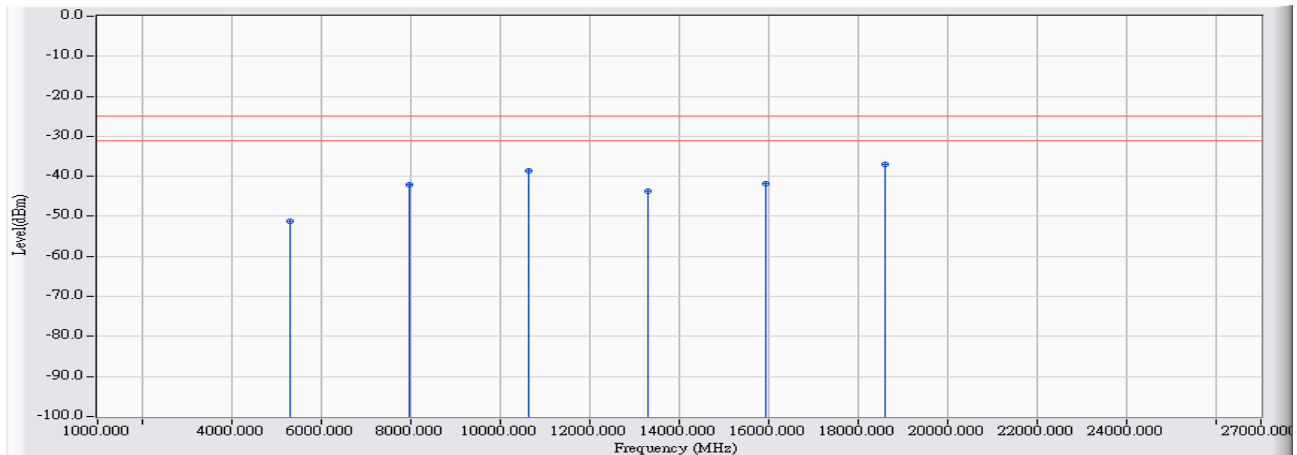


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5313.783	14.778	-65.320	-50.542	-25.542	-25.000	PEAK
2		7970.917	22.273	-68.750	-46.477	-21.477	-25.000	PEAK
3		10628.133	22.064	-60.340	-38.276	-13.276	-25.000	PEAK
4		13285.133	26.517	-70.940	-44.422	-19.422	-25.000	PEAK
5		15941.700	28.599	-71.430	-42.830	-17.830	-25.000	PEAK
6	*	18598.967	36.690	-72.660	-35.970	-10.970	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 13:35
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2659MHz)

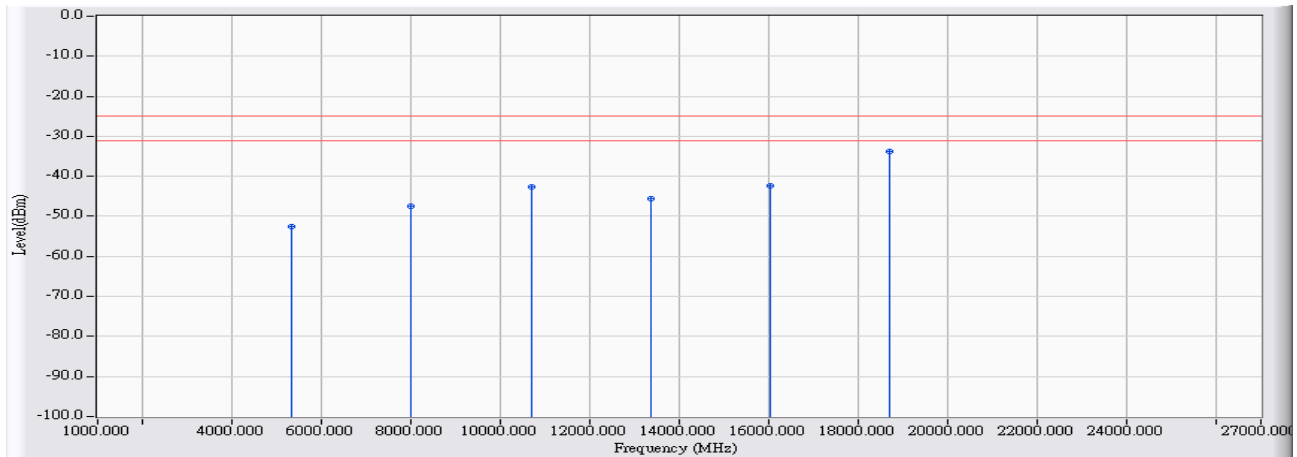


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5313.933	14.546	-65.650	-51.104	-26.104	-25.000	PEAK
2		7970.967	21.583	-63.740	-42.157	-17.157	-25.000	PEAK
3		10628.100	21.137	-59.730	-38.592	-13.592	-25.000	PEAK
4		13284.933	27.969	-71.570	-43.600	-18.600	-25.000	PEAK
5		15942.583	28.308	-70.160	-41.853	-16.853	-25.000	PEAK
6	*	18598.668	36.650	-73.560	-36.910	-11.910	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 13:48
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2671.5MHz)

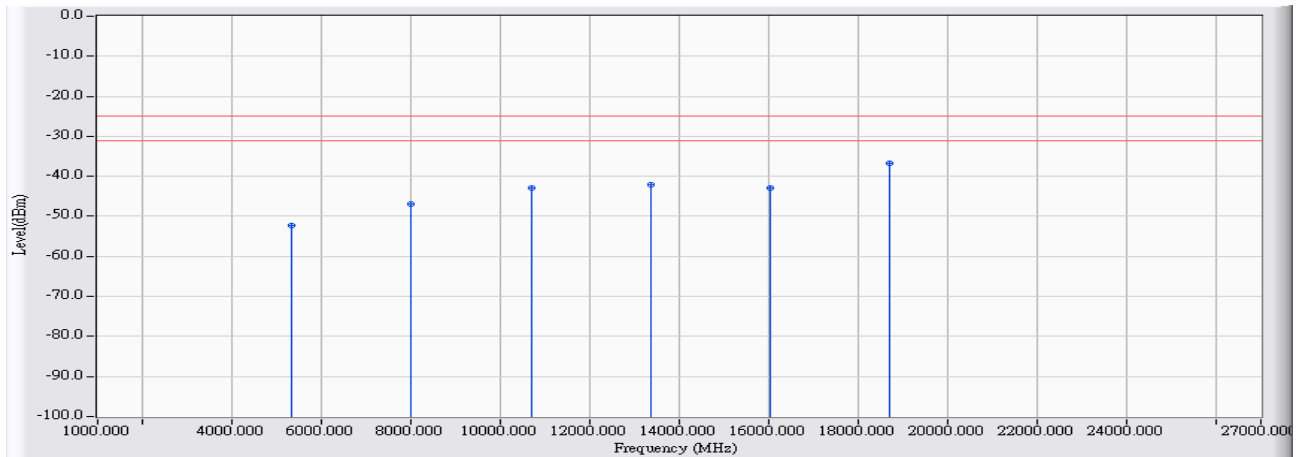


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5343.933	14.786	-67.300	-52.514	-27.514	-25.000	PEAK
2		8016.133	22.313	-69.890	-47.577	-22.577	-25.000	PEAK
3		10688.000	22.146	-64.760	-42.614	-17.614	-25.000	PEAK
4		13359.900	26.589	-72.180	-45.592	-20.592	-25.000	PEAK
5		16032.167	28.877	-71.300	-42.422	-17.422	-25.000	PEAK
6	*	18703.418	36.690	-70.590	-33.900	-8.900	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 13:59
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2671.5MHz)

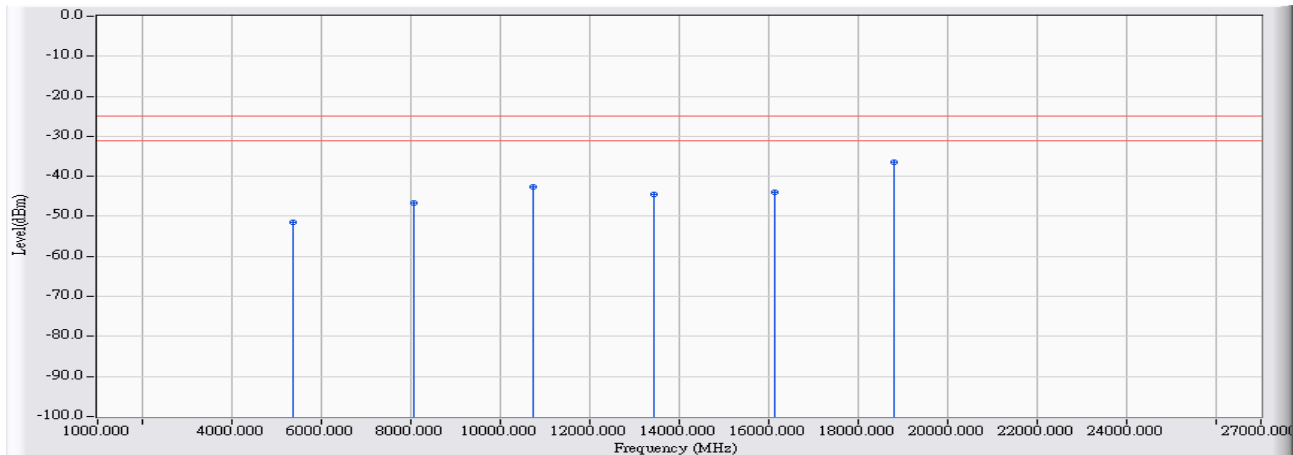


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5344.167	14.567	-66.870	-52.302	-27.302	-25.000	PEAK
2		8016.083	21.597	-68.590	-46.994	-21.994	-25.000	PEAK
3		10688.067	21.141	-64.160	-43.019	-18.019	-25.000	PEAK
4		13360.433	28.121	-70.340	-42.219	-17.219	-25.000	PEAK
5		16032.100	28.511	-71.460	-42.949	-17.949	-25.000	PEAK
6	*	18704.367	36.650	-73.360	-36.710	-11.710	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:11
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2687MHz)

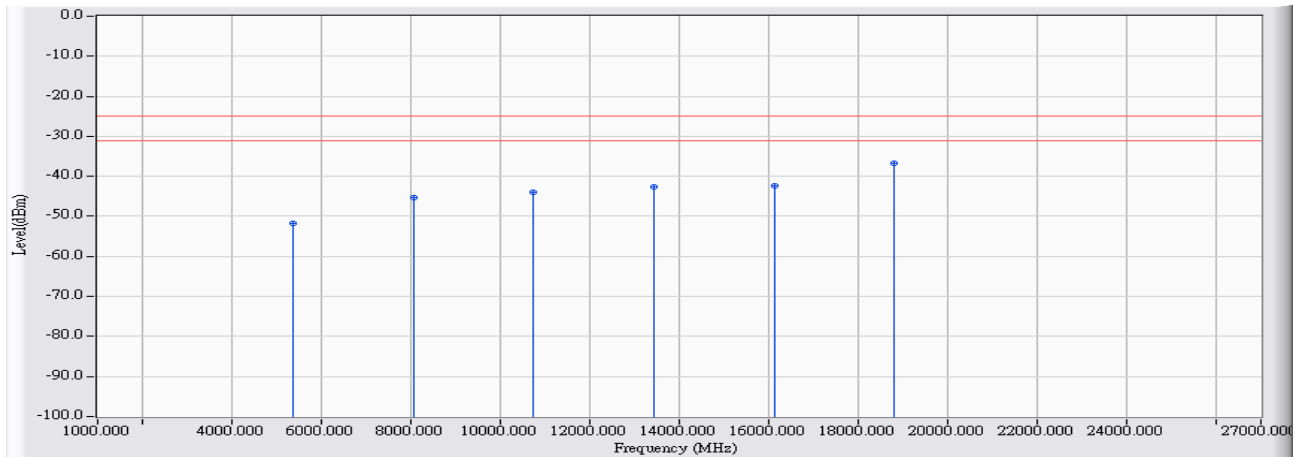


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5374.200	14.795	-66.150	-51.355	-26.355	-25.000	PEAK
2		8061.167	22.208	-68.990	-46.782	-21.782	-25.000	PEAK
3		10747.850	22.227	-64.880	-42.653	-17.653	-25.000	PEAK
4		13434.983	26.659	-71.110	-44.451	-19.451	-25.000	PEAK
5		16121.983	29.569	-73.650	-44.081	-19.081	-25.000	PEAK
6	*	18809.184	36.690	-73.040	-36.350	-11.350	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:23
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode1:16-QAM(2687MHz)

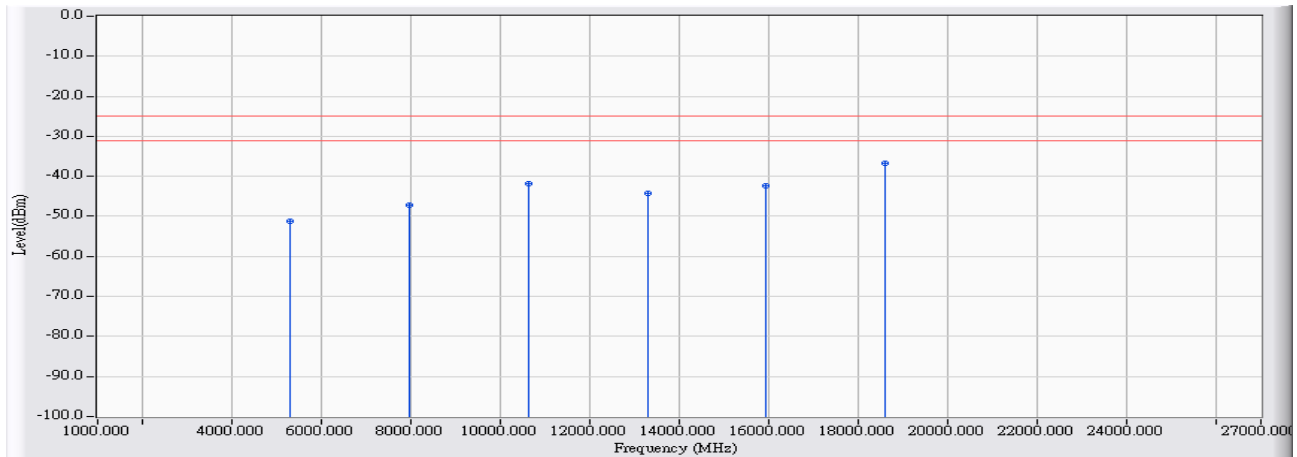


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5372.533	14.589	-66.420	-51.832	-26.832	-25.000	PEAK
2		8061.133	21.558	-67.000	-45.441	-20.441	-25.000	PEAK
3		10747.817	21.145	-65.020	-43.875	-18.875	-25.000	PEAK
4		13434.650	28.269	-71.010	-42.741	-17.741	-25.000	PEAK
5		16121.567	29.406	-71.670	-42.264	-17.264	-25.000	PEAK
6	*	18808.934	36.650	-73.510	-36.860	-11.860	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:29
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2659MHz)

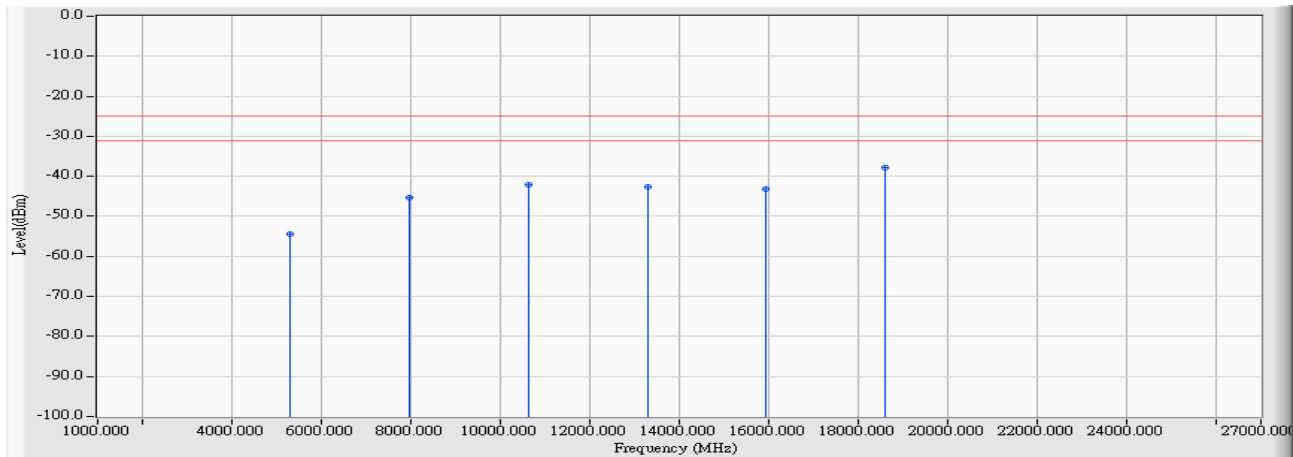


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5313.867	14.778	-66.070	-51.292	-26.292	-25.000	PEAK
2	7970.550	22.272	-69.500	-47.228	-22.228	-25.000	PEAK
3	10629.117	22.066	-63.930	-41.864	-16.864	-25.000	PEAK
4	13285.150	26.517	-70.670	-44.152	-19.152	-25.000	PEAK
5	15942.670	28.601	-70.890	-42.290	-17.290	-25.000	PEAK
6	* 18599.100	36.690	-73.300	-36.610	-11.610	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:37
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2659MHz)

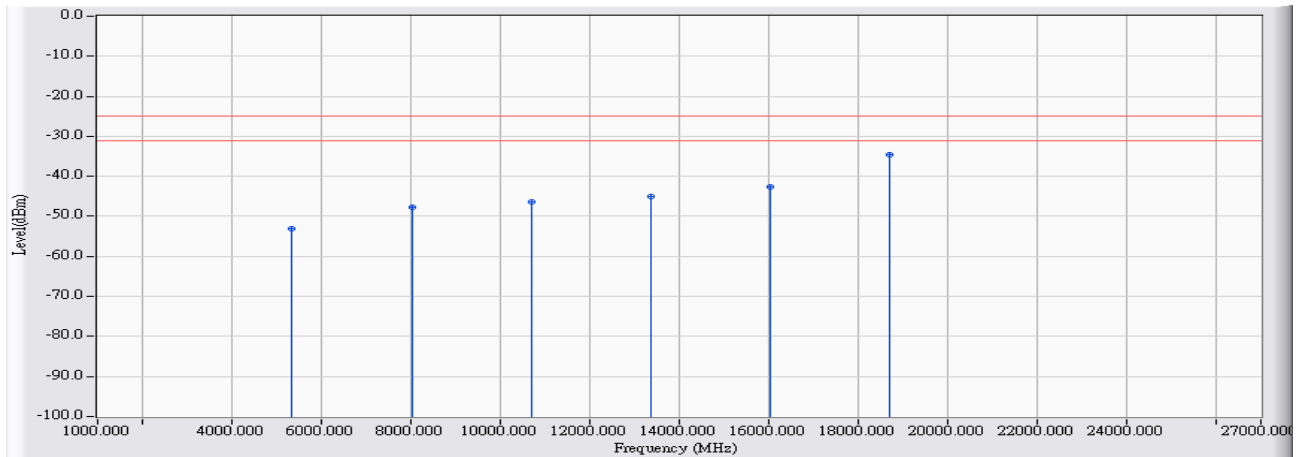


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5313.833	14.546	-68.850	-54.304	-29.304	-25.000	PEAK
2	7970.550	21.582	-67.020	-45.438	-20.438	-25.000	PEAK
3	10630.767	21.138	-63.310	-42.172	-17.172	-25.000	PEAK
4	13284.917	27.969	-70.470	-42.500	-17.500	-25.000	PEAK
5	15942.283	28.308	-71.400	-43.092	-18.092	-25.000	PEAK
6	* 18599.367	36.650	-74.500	-37.850	-12.850	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:49
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2671.5MHz)

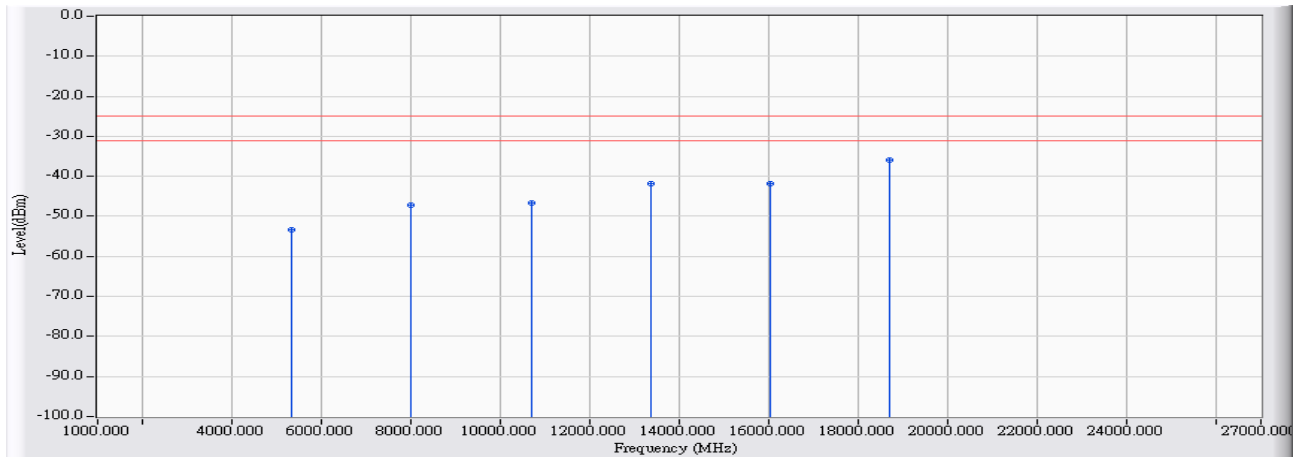


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5343.117	14.786	-67.910	-53.124	-28.124	-25.000	PEAK
2		8016.817	22.311	-69.960	-47.649	-22.649	-25.000	PEAK
3		10687.900	22.146	-68.480	-46.334	-21.334	-25.000	PEAK
4		13360.267	26.589	-71.570	-44.981	-19.981	-25.000	PEAK
5		16031.567	28.873	-71.510	-42.637	-17.637	-25.000	PEAK
6	*	18704.268	36.690	-71.380	-34.690	-9.690	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 14:55
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2671.5MHz)

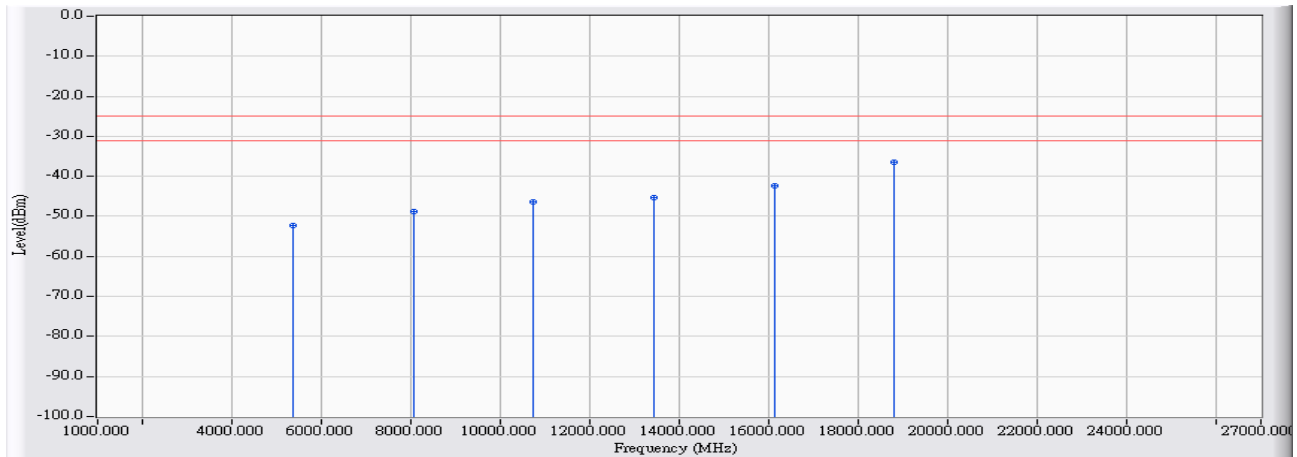


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5343.917	14.567	-67.820	-53.252	-28.252	-25.000	PEAK
2		8016.267	21.597	-68.690	-47.094	-22.094	-25.000	PEAK
3		10686.683	21.141	-67.910	-46.769	-21.769	-25.000	PEAK
4		13359.630	28.120	-70.050	-41.931	-16.931	-25.000	PEAK
5		16032.850	28.518	-70.210	-41.691	-16.691	-25.000	PEAK
6	*	18703.801	36.650	-72.600	-35.950	-10.950	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 15:12
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - HORIZONTAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2687MHz)

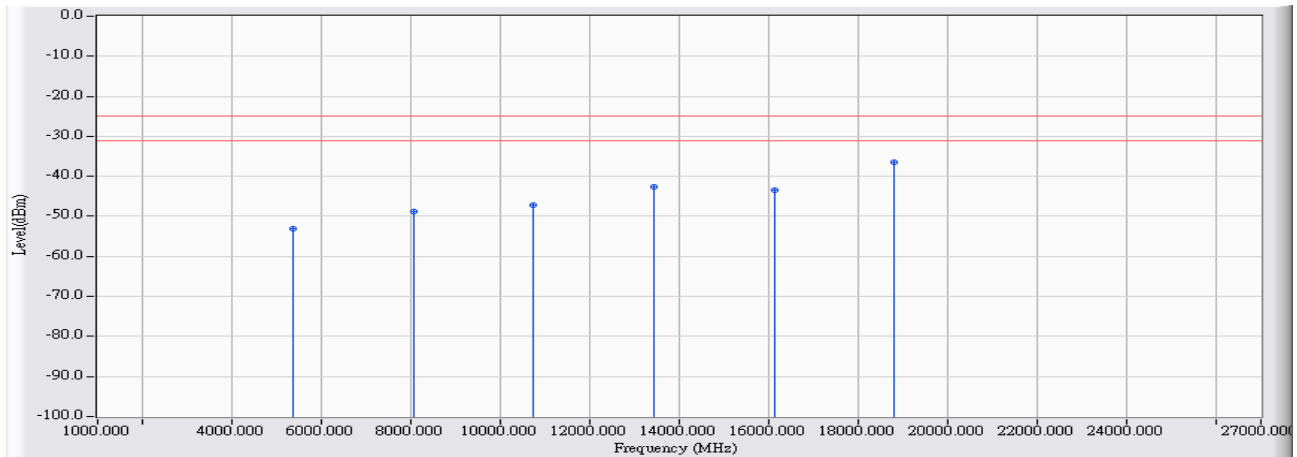


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		5374.233	14.796	-67.170	-52.375	-27.375	-25.000	PEAK
2		8060.850	22.208	-70.890	-48.681	-23.681	-25.000	PEAK
3		10748.167	22.227	-68.640	-46.413	-21.413	-25.000	PEAK
4		13435.167	26.659	-72.030	-45.371	-20.371	-25.000	PEAK
5		16122.067	29.570	-71.800	-42.230	-17.230	-25.000	PEAK
6	*	18809.184	36.690	-73.150	-36.460	-11.460	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2012/01/20 - 15:25
Limit : PART27/PLMN09(Mobile_station)_00M_PK	Margin : 6
Probe : CB1_CE_Sub_1-18G-1-0901 - VERTICAL	Power : AC 120V/60Hz
BRS/EBS Transceiver	Note : Mode5:16-QAM(2687MHz)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	5374.583	14.590	-67.770	-53.180	-28.180	-25.000	PEAK
2	8061.033	21.558	-70.250	-48.691	-23.691	-25.000	PEAK
3	10748.267	21.145	-68.300	-47.155	-22.155	-25.000	PEAK
4	13435.267	28.271	-70.850	-42.579	-17.579	-25.000	PEAK
5	16122.233	29.412	-72.880	-43.468	-18.468	-25.000	PEAK
6	* 18808.467	36.650	-73.140	-36.490	-11.490	-25.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

7. Frequency Stability Over Temperatures Variation

7.1. Test Equipment

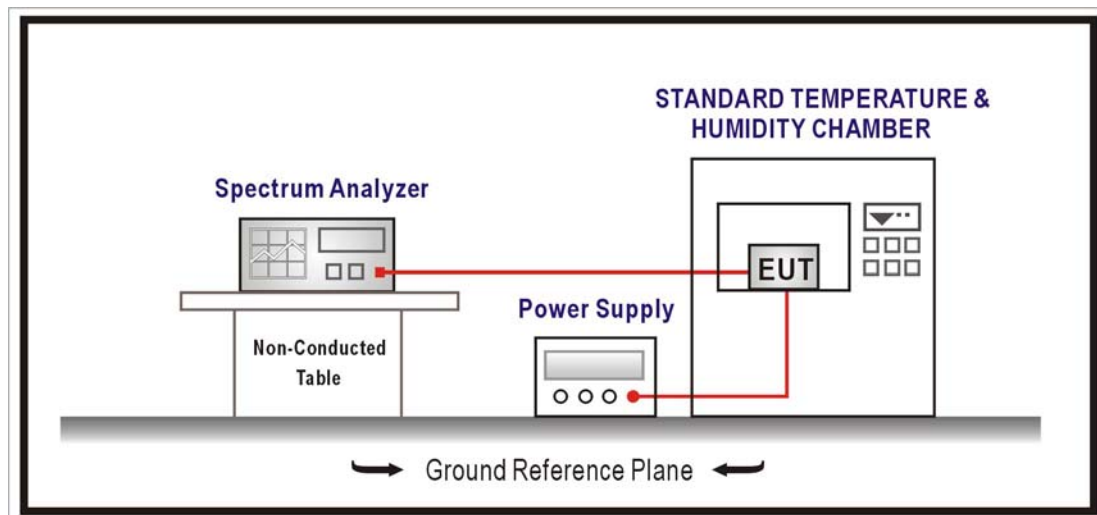
The following test equipments are used during the test:

Frequency Stability Over Temperatures Variation/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/01/16
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2012/01/30

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

The frequency stability shall be measured with variation of ambient temperature as follows: From -30° to +50° centigrade for all equipment. Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range.

7.4. Test Procedure

Power must be turned off when changing from one temperature to another. Power warm up is at least 15 min and power applied should perform before recording frequency error. The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

7.5. Uncertainty

The measurement uncertainty is defined as $\pm 100\text{KHz}$

7.6. Test Result

Product	BRS/EBS Transceiver		
Test Item	Frequency Stability Over Temperatures Variation		
Test Mode	Carrier Signal		
Date of Test	2012/1/19	Test Site	SR7

Carrier Signal		
2659.0MHz		
Frequency Error Over Temperatures		
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
50	2658.9971	-1.091
40	2658.9970	-1.129
30	2658.9971	-1.091
25	2658.9970	-1.129
20	2658.9970	-1.129
10	2658.9970	-1.129
0	2658.9971	-1.091
-10	2658.9971	-1.091
-20	2658.9971	-1.091

2671.5MHz		
Frequency Error Over Temperatures		
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
50	2671.4971	-1.086
40	2671.4972	-1.048
30	2671.4972	-1.048
25	2671.4970	-1.123
20	2671.4970	-1.123
10	2671.4970	-1.123
0	2671.4971	-1.086
-10	2671.4971	-1.086
-20	2671.4972	-1.048

2687.0MHz		
Frequency Error Over Temperatures		
Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
50	2656.9971	-1.091
40	2656.9970	-1.129
30	2656.9971	-1.091
25	2656.9970	-1.129
20	2656.9970	-1.129
10	2656.9970	-1.129
0	2656.9971	-1.091
-10	2656.9971	-1.091
-20	2656.9971	-1.091

8. Frequency Stability Over Voltage Variation

8.1. Test Equipment

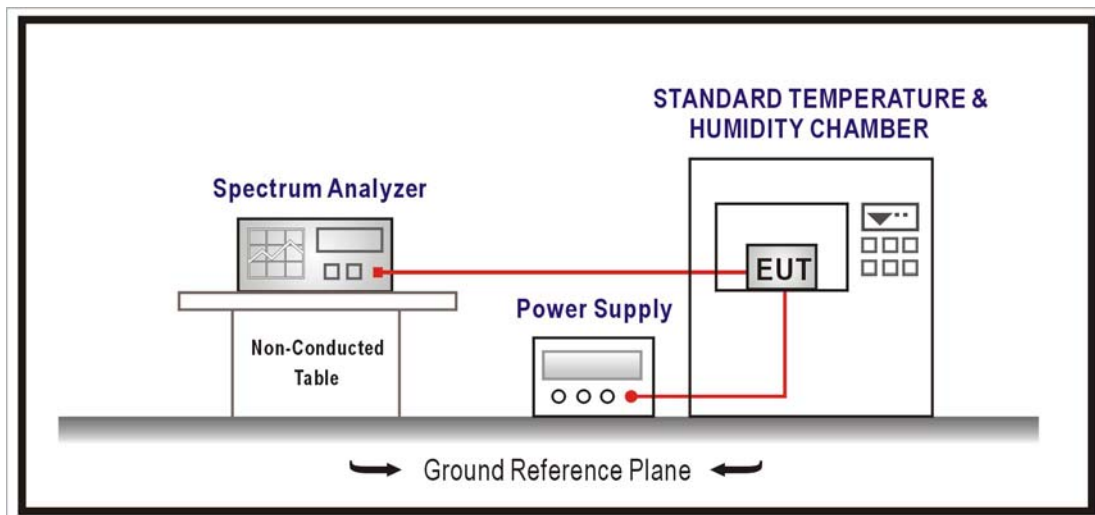
The following test equipments are used during the test:

Frequency Stability Over Temperatures Variation/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/01/16
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2012/01/30

Note: 1. all equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

8.4. Test Procedure

Power must be removed when changing from one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.

EUT is connected the external power supply to control the DC input power. The various Volts set from the minimum 4.5 Volts to 5.5 Volts. Each step shall be record the frequency error rate.

8.5. Uncertainty

The measurement uncertainty is defined as $\pm 100\text{KHz}$.

8.6. Test Result

Product	BRS/EBS Transceiver		
Test Item	Frequency Stability Over Voltage Variation		
Test Mode	Carrier Signal		
Date of Test	2012/1/19	Test Site	No.7 Shielding Room

Carrier Signal		
2659.0MHz		
Frequency Error Over Voltage		
Voltage	Frequency (MHz)	Frequency Error (ppm)
138	2658.997	-1.129
120	2658.997	-1.129
102	2658.997	-1.129

2671.5MHz		
Frequency Error Over Voltage		
Voltage	Frequency (MHz)	Frequency Error (ppm)
138	2671.497	-1.123
120	2671.497	-1.123
102	2671.497	-1.123

2687.0MHz		
Frequency Error Over Voltage		
Voltage	Frequency (MHz)	Frequency Error (ppm)
138	2686.9960	-1.489
120	2686.9970	-1.116
102	2686.9970	-1.116

9. AC Conducted Emission

9.1. Test Equipment

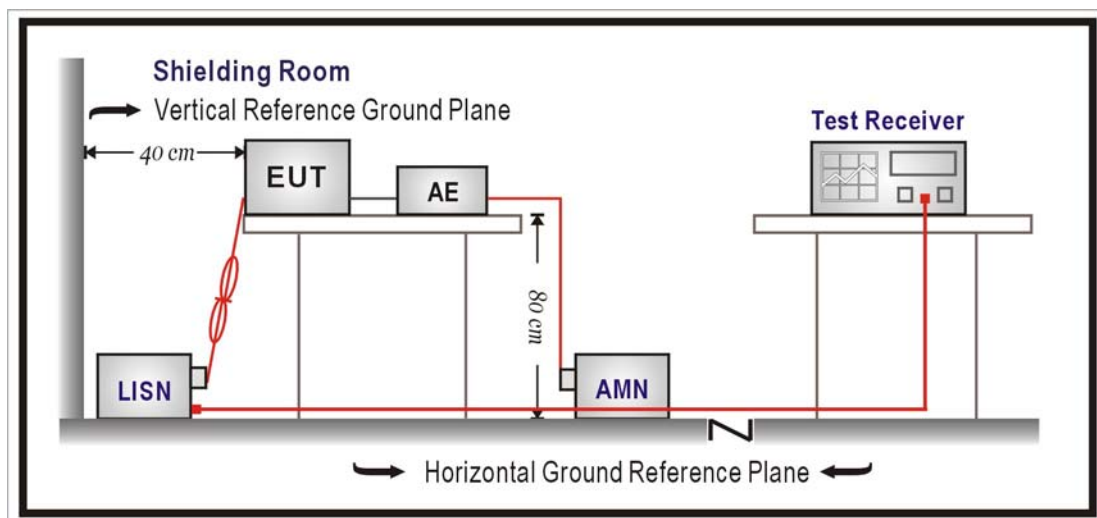
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2012/09/06
LISN	R&S	ESH3-Z5	836679/022	2012/02/10
Test Receiver	R&S	ESCS 30	825442/017	2012/01/16

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

9.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.

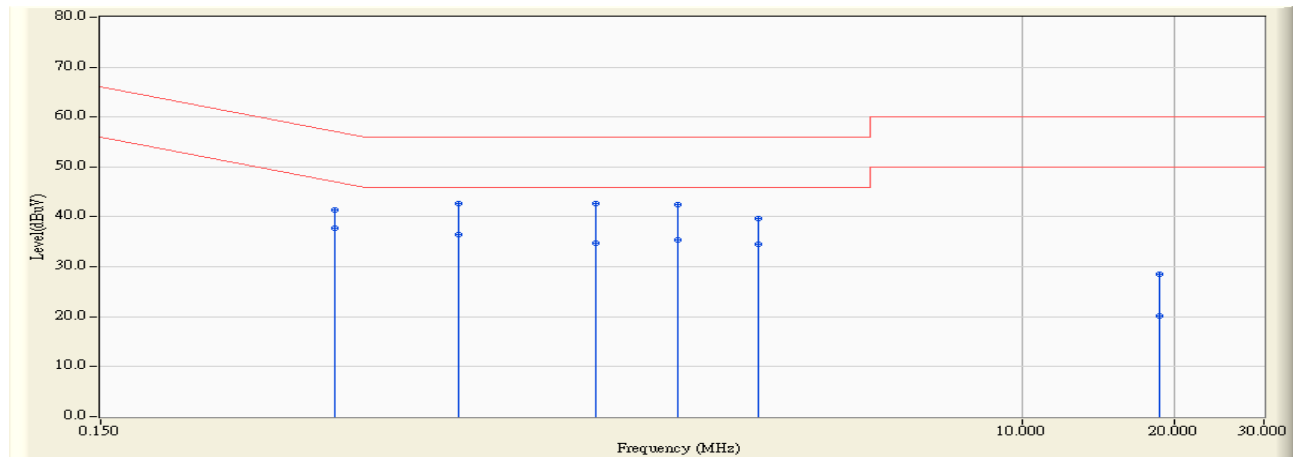
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

9.5. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB

9.6. Test Result

Site : SR3	Time : 2011/12/13 - 11:24
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line1	Power : AC 120V/60Hz
EUT : BRS/EBS Transceiver	Note : Mode5:16-QAM(Transmit)

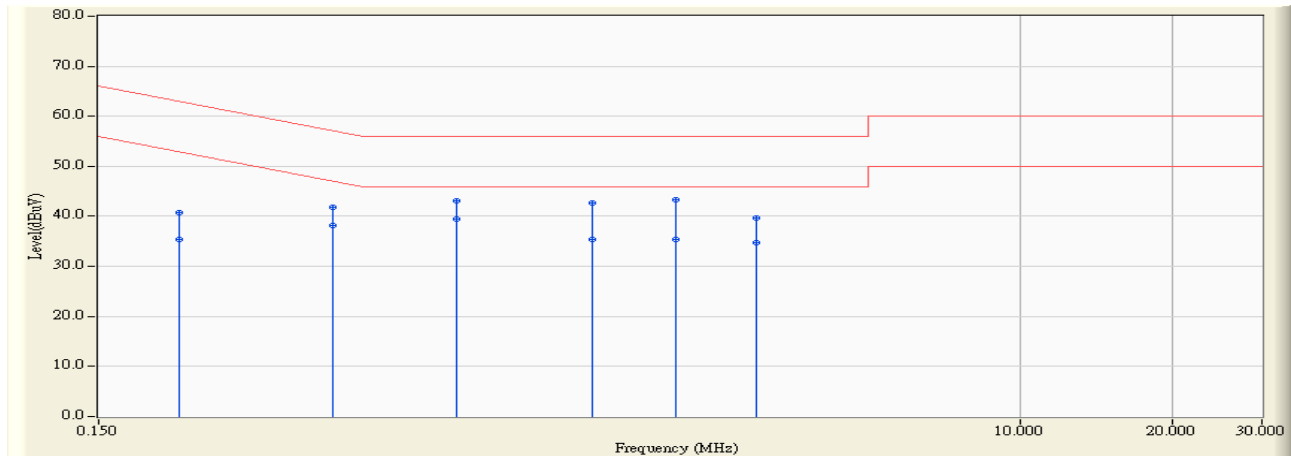


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.435	9.692	31.760	41.451	-15.703	57.154	QUASIPeAK
2	0.435	9.692	27.960	37.651	-9.503	47.154	AVERAGE
3	0.763	9.743	32.840	42.583	-13.417	56.000	QUASIPeAK
4	*	0.763	26.810	36.553	-9.447	46.000	AVERAGE
5	1.427	9.844	32.750	42.594	-13.406	56.000	QUASIPeAK
6	1.427	9.844	25.000	34.844	-11.156	46.000	AVERAGE
7	2.072	9.933	32.510	42.443	-13.557	56.000	QUASIPeAK
8	2.072	9.933	25.360	35.293	-10.707	46.000	AVERAGE
9	3.009	9.972	29.660	39.632	-16.368	56.000	QUASIPeAK
10	3.009	9.972	24.540	34.512	-11.488	46.000	AVERAGE
11	18.627	10.289	18.180	28.469	-31.531	60.000	QUASIPeAK
12	18.627	10.289	9.840	20.129	-29.871	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR3	Time : 2011/12/13 - 11:27
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR3_LISN(16A)-1_0907 - Line2	Power : AC 120V/60Hz
EUT : BRS/EBS Transceiver	Note : Mode5:16-QAM(Transmit)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.216	9.669	31.000	40.669	-22.286	62.956	QUASIPeAK
2		0.216	9.669	25.630	35.299	-17.656	52.956	AVERAGE
3		0.435	9.701	32.120	41.821	-15.333	57.154	QUASIPeAK
4		0.435	9.701	28.370	38.071	-9.083	47.154	AVERAGE
5		0.767	9.747	33.380	43.127	-12.873	56.000	QUASIPeAK
6	*	0.767	9.747	29.640	39.387	-6.613	46.000	AVERAGE
7		1.420	9.843	32.750	42.593	-13.407	56.000	QUASIPeAK
8		1.420	9.843	25.440	35.283	-10.717	46.000	AVERAGE
9		2.076	9.934	33.370	43.304	-12.696	56.000	QUASIPeAK
10		2.076	9.934	25.490	35.424	-10.576	46.000	AVERAGE
11		3.009	9.982	29.680	39.662	-16.338	56.000	QUASIPeAK
12		3.009	9.982	24.670	34.652	-11.348	46.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.