TEST DATA

Test Data Number: 100099259MIN-001
Project Number: G100099259

Testing performed on the
Prism Module, 700MHz Upper C-Band
to

47 CFR, Part 27:2009

For
ADC Telecommunications Inc.

Test Performed by:
Intertek Testing Services NA, Inc.
7250 Hudson Blvd., Suite 100
Oakdale, MN 55128

Test Authorized by:
ADC Telecommunications Inc.
PO. BOX 1101
Minneapolis, MN 55440-1101

Prepared by: _____ Date: April 27, 2010
Uri Spector

Reviewed by: _____ Date: April 27, 2010
Norman Shpilsher

TABLE OF CONTENTS

1.0 DESCRIPTION OF THE SAMPLE (EUT)

Model:	Prism Module, 700MHz Upper C-Band, FWP-U416000MOD
Type of EUT:	Indoor / Outdoor Repeater
Serial Number:	N/A
Company:	ADC Telecommunications Inc.
Customer:	Mr. Joshua Wittman
Address:	ADC Telecommunications Inc. PO. Box 1101 Minneapolis, MN 55440-1101
Phone:	952-403-8322
Fax:	
Test Standards:	☐ EN 55022:2006 +A1:2007, Class ☐ EN 55011:2007, Group , Class ☒ 47 CFR, Part 27:2009 ☐ EN 55014-1:2006 ☐ EN 61326-1:2006 ☐ Class for Radiated and Conducted Emissions ☐ EN 60601-1-2:2001 +A1:2006 ☐ Class Radiated and Conducted Emissions ☐ EN 61000-6-3:2007 ☐ EN 61000-6-4:2007 ☐ EN 61000-3-2:2006 ☐ EN 61000-3-3:1995 +A1:2001 +A2:2006 ☐ Other

2.0 TEST SUMMARY

Referring to the performance criteria and the operating mode during the tests specified in this report, the equipment complies with the requirements according to the following standards.

TEST STANDARD	TEST	RESULT
Part 27	Spurious Enclosure Radiated Emissions	Pass

2.1 Statement of the Measurement Uncertainty

Note: The measured result in this report is within the specification limits by more than the measurement uncertainty; the measured result indicates that the product tested complies with the specification limit.

The expanded uncertainty (k = 2) for radiated emissions from 30 to 1000 MHz has been determined to be: ±4 dB at 10m and ±5.4 dB at 3m

The expanded uncertainty (k = 2) for conducted emissions from 150 kHz to 30 MHz has been determined to be:
±2.6 dB

General notes:
1. Test was performed with the EUT tuned to the low frequency (747MHz), middle frequency (751MHz), and upper frequency (755MHz) of the operating band.

2. Testing was performed in frequency range from 30MHz to 8GHz. EUT tuned frequencies 747MHz, 751MHz, and 755MHz were excluded form the table 2.

3. The Spurious Radiated Power limits of -13dBm was correlated with field strength reference level of 82.2dBµV/m during field strength measurements at 3m measurement distance

3.0 TEST RESULTS

Tables 1-2 show detected Radiated Emissions.
Graphs 1 to 18 show the EUT peak Radiated Emissions.
No emissions were chosen for substitution measurements as the maximum emission is more than 20dB below the reference limit.

Radiated Emissions from 30MHz to 1GHz **Date:** 04-27-2010

Company: ADC Telecommunications Inc.
Model: Prism Module, 700MHz Upper C-Band
Test Engineer: Uri Spector
Standard: FCC Part 27
Test Site: 3m Anechoic Chamber, 3m measurement distance
Note: The table shows the worst case radiated emissions
Measurements were taken using a Peak detector

Table # 1

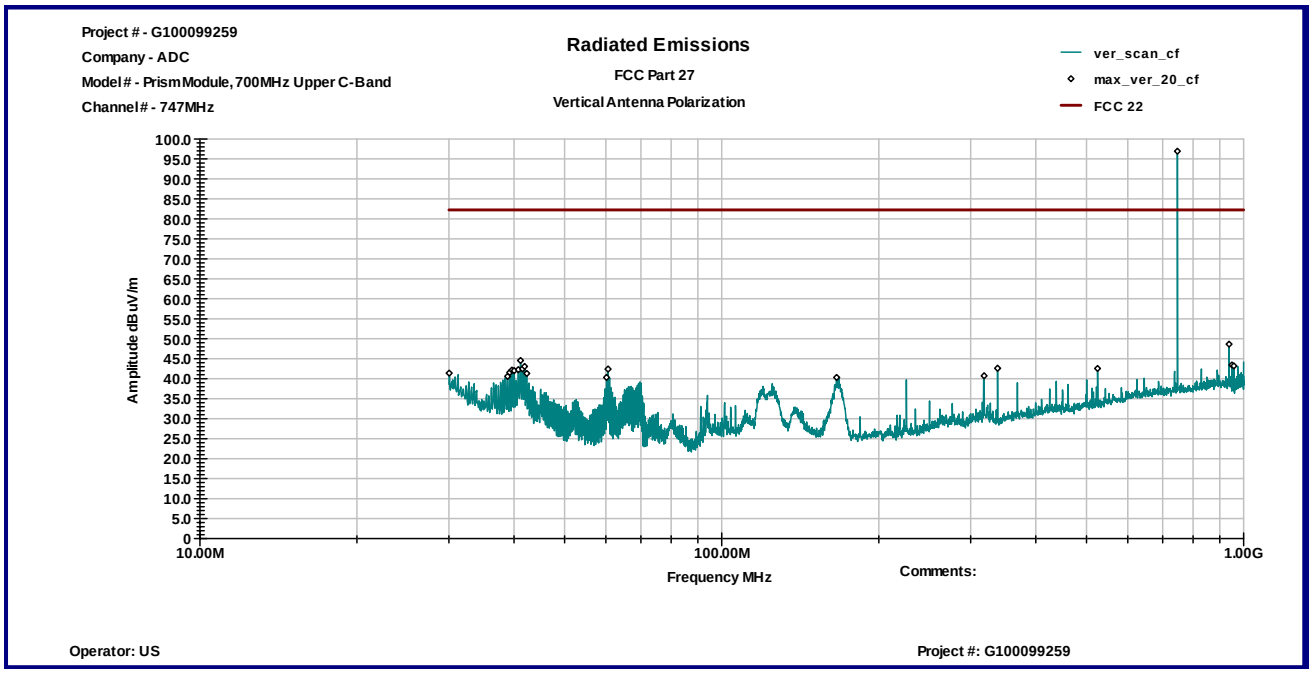
Frequency	Ant. Polarity	Peak Reading dBµV	Ant.Factor dB1/m	Total at 3m dBµV/m	QP Limit dBµV/m	Margin dB
		Operating Frequency 747MHz				
30.047 MHz	V	20.7	20.7	41.4	82.2	-40.8
41.161 MHz	V	29.7	14.9	44.6	82.2	-37.6
337.82 MHz	V	25.9	16.8	42.6	82.2	-39.6
937.89 MHz	V	23.3	25.3	48.6	82.2	-33.6
167.08 MHz	H	34.2	11.5	45.7	82.2	-36.5
437.76 MHz	H	22.6	19.6	42.2	82.2	-40.0
525.08 MHz	H	21.1	20.8	41.9	82.2	-40.3
937.89 MHz	H	18.2	25.3	43.4	82.2	-38.8
		Operating Frequency 751MHz				
30.814 MHz	V	17.6	20.3	37.9	82.2	-44.3
41.199 MHz	V	25.7	14.9	40.6	82.2	-41.6
437.81 MHz	V	19.9	19.6	39.5	82.2	-42.7
937.8 MHz	V	21.0	25.3	46.3	82.2	-35.9
950.02 MHz	V	18.6	25.3	43.9	82.2	-38.3
30.084 MHz	H	15.3	20.7	36.0	82.2	-46.2
166.35 MHz	H	29.8	11.6	41.4	82.2	-40.8
437.81 MHz	H	20.7	19.6	40.3	82.2	-41.9
937.8 MHz	H	17.9	25.3	43.2	82.2	-39.0
		Operating Frequency 755MHz				
30.842 MHz	V	21.1	20.3	41.4	82.2	-40.8
41.171 MHz	V	30.7	14.9	45.6	82.2	-36.6
48.154 MHz	V	33.6	11.2	44.8	82.2	-37.4
937.8 MHz	V	23.4	25.3	48.7	82.2	-33.5
950.02 MHz	V	18.5	25.3	43.8	82.2	-38.4
167.39 MHz	H	34.8	11.5	46.3	82.2	-36.0
525.21 MHz	H	21.0	20.8	41.8	82.2	-40.4
687.45 MHz	H	19.5	23.1	42.6	82.2	-39.6
937.8 MHz	H	18.7	25.3	44.0	82.2	-38.2

Radiated Emissions from 1GHz to 8GHz **Date:** 04-27-2010

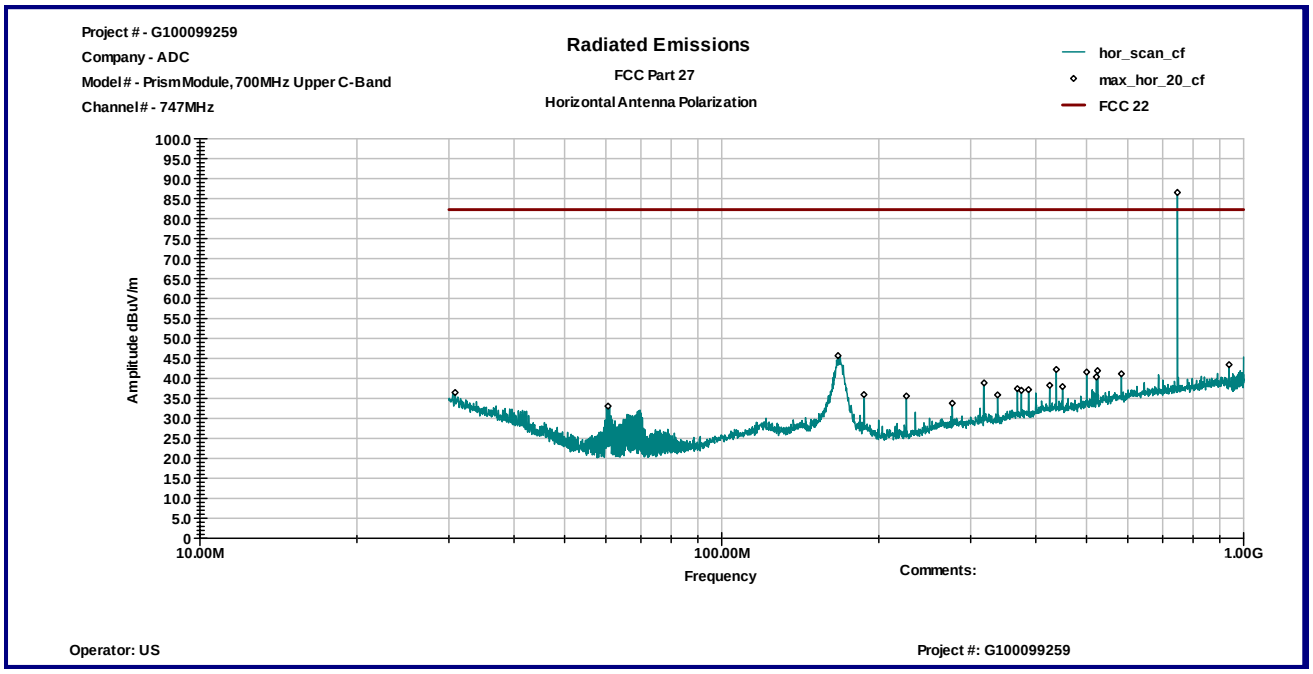
Company: ADC Telecommunications Inc.
Model: Prism Module, 700MHz Upper C-Band
Test Engineer: Uri Spector
Standard: FCC Part 27
Test Site: 3m Anechoic Chamber, 3m measurement distance
Note: The table shows the worst case radiated emissions
All measurements were taken using a Peak detector

Table # 2

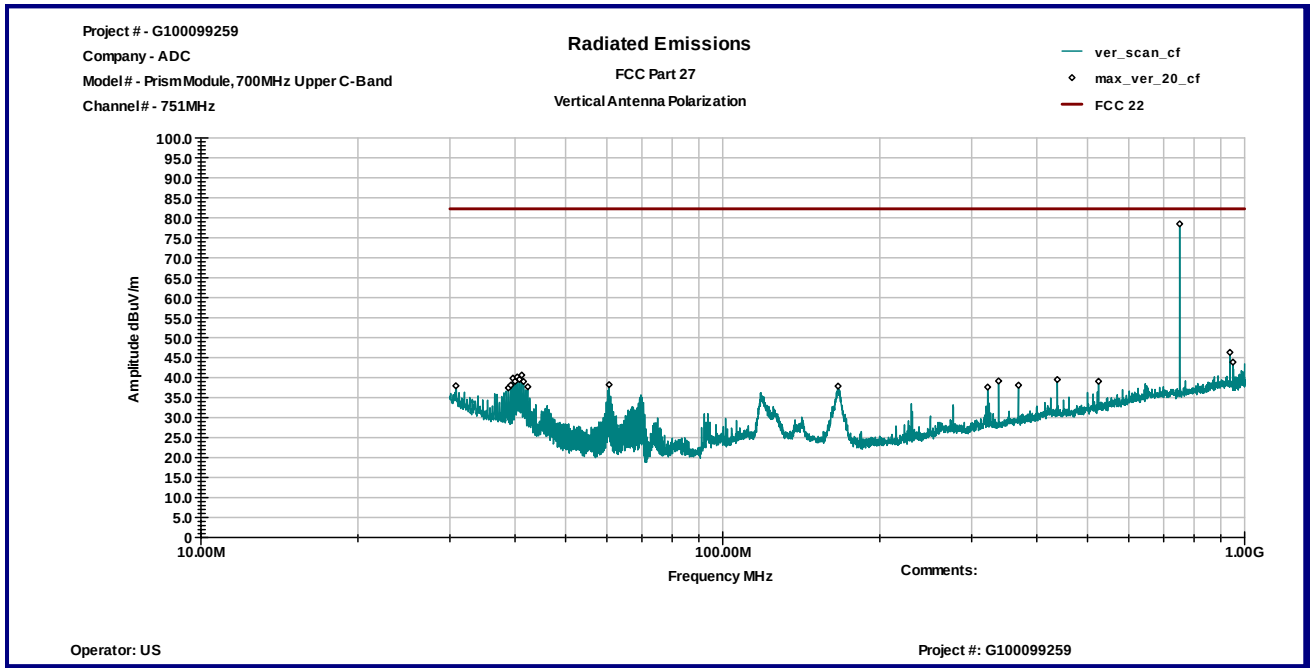
Frequency MHz	Antenna Polarity	Reading dBµV	Total C.F. dB1/m	Pre-Amp. Gain (dB)	Total at 3m dBµV/m	QP Limit dBµV/m	Margin dB
		Operating Frequency 747MHz					
1.2485 GHz	V	65.7	26.9	42.6	50.0	82.2	-32.2
1.4935 GHz	V	71.5	27.9	42.7	56.6	82.2	-25.6
2.2425 GHz	V	66.8	30.7	43.2	54.3	82.2	-27.9
7.349 GHz	V	41.1	42.0	41.2	41.8	82.2	-40.4
1.0735 GHz	H	51.5	26.2	42.5	35.2	82.2	-47.0
1.1855 GHz	H	58.6	26.6	42.5	42.7	82.2	-39.5
1.2485 GHz	H	67.8	26.9	42.6	52.1	82.2	-30.1
1.5005 GHz	H	58.6	27.9	42.7	43.8	82.2	-38.4
2.463 GHz	H	54.2	31.4	43.1	42.5	82.2	-39.7
7.4365 GHz	H	41.1	42.1	41.0	42.1	82.2	-40.1
		Operating Frequency 751MHz					
1.2485 GHz	V	65.9	26.9	42.6	50.2	82.2	-32.0
2.001 GHz	V	53.0	29.8	43.3	39.6	82.2	-42.6
2.2495 GHz	V	50.9	30.7	43.2	38.4	82.2	-43.8
7.349 GHz	V	41.6	42.0	41.2	42.4	82.2	-39.8
1.105 GHz	H	56.7	26.3	42.5	40.5	82.2	-41.7
1.1855 GHz	H	58.9	26.6	42.5	42.9	82.2	-39.3
1.2485 GHz	H	67.9	26.9	42.6	52.2	82.2	-30.0
1.5005 GHz	H	59.1	27.9	42.7	44.3	82.2	-37.9
7.566 GHz	H	40.5	42.2	40.9	41.8	82.2	-40.4
		Operating Frequency 755MHz					
1.2485 GHz	V	66.2	26.9	42.6	50.5	82.2	-31.7
1.511 GHz	V	71.6	27.9	42.7	56.8	82.2	-25.4
2.267 GHz	V	54.0	30.8	43.2	41.6	82.2	-40.7
7.405 GHz	V	41.4	42.0	41.1	42.3	82.2	-39.9
1.1855 GHz	H	58.4	26.6	42.5	42.5	82.2	-39.7
1.2485 GHz	H	67.7	26.9	42.6	52.1	82.2	-30.2
1.5005 GHz	H	58.8	27.9	42.7	44.0	82.2	-38.2
2.6275 GHz	H	52.0	32.0	43.2	40.8	82.2	-41.4
3.8735 GHz	H	47.7	36.2	43.0	40.9	82.2	-41.3
7.6255 GHz	H	40.5	42.2	40.8	41.9	82.2	-40.3



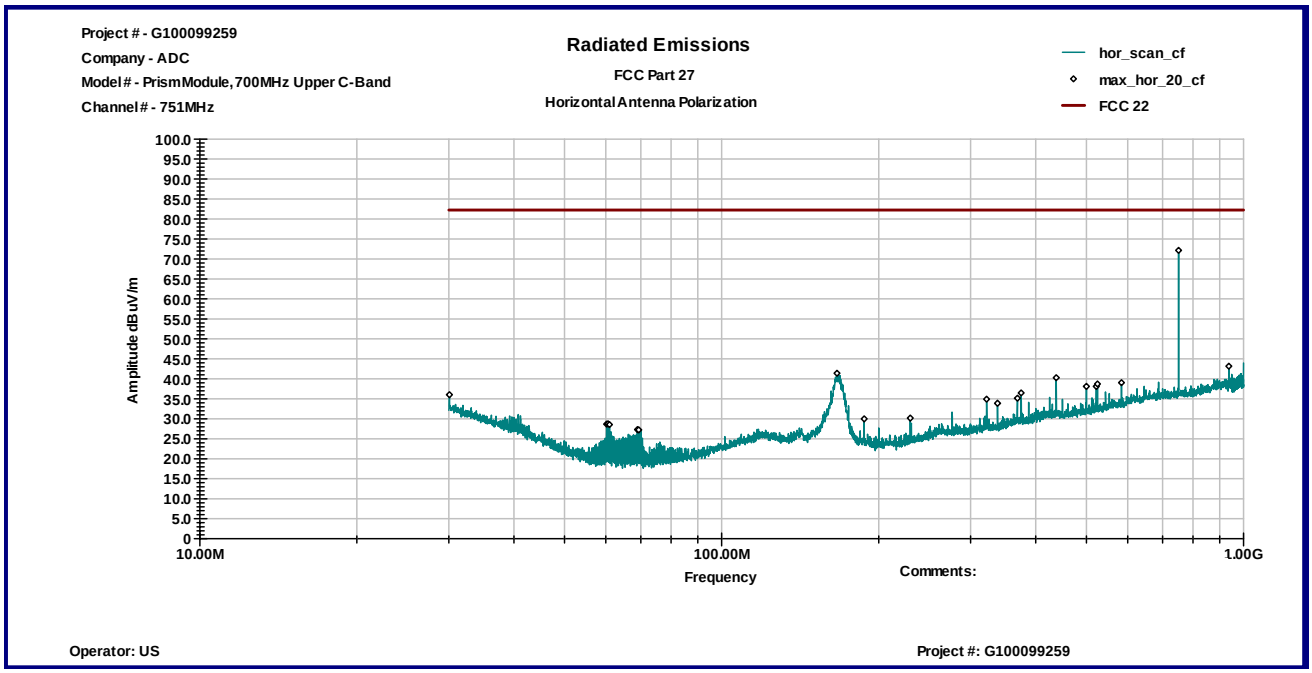
Graph 1



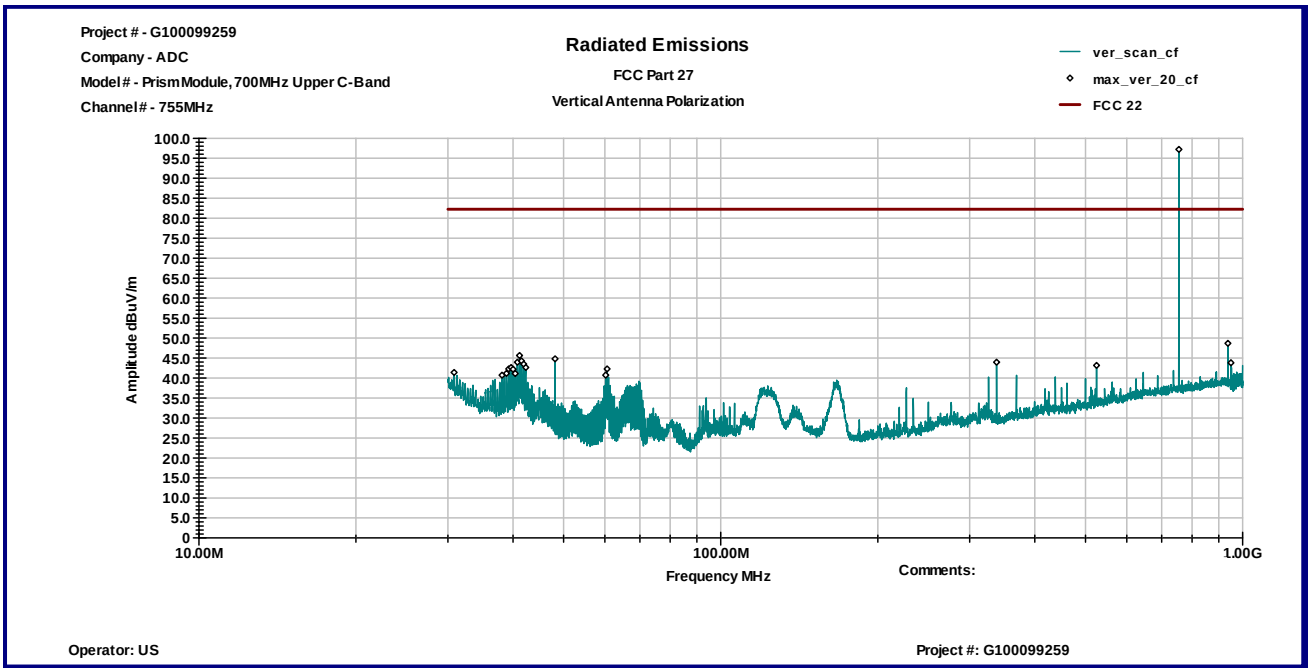
Graph 2



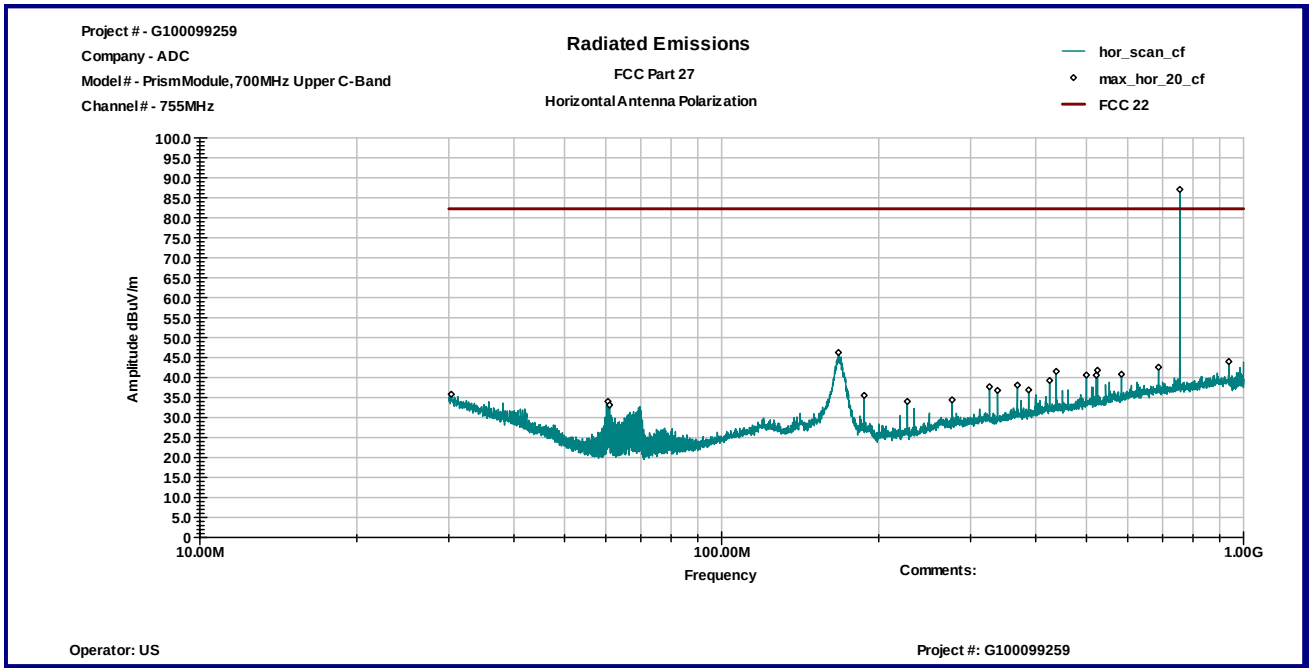
Graph 3



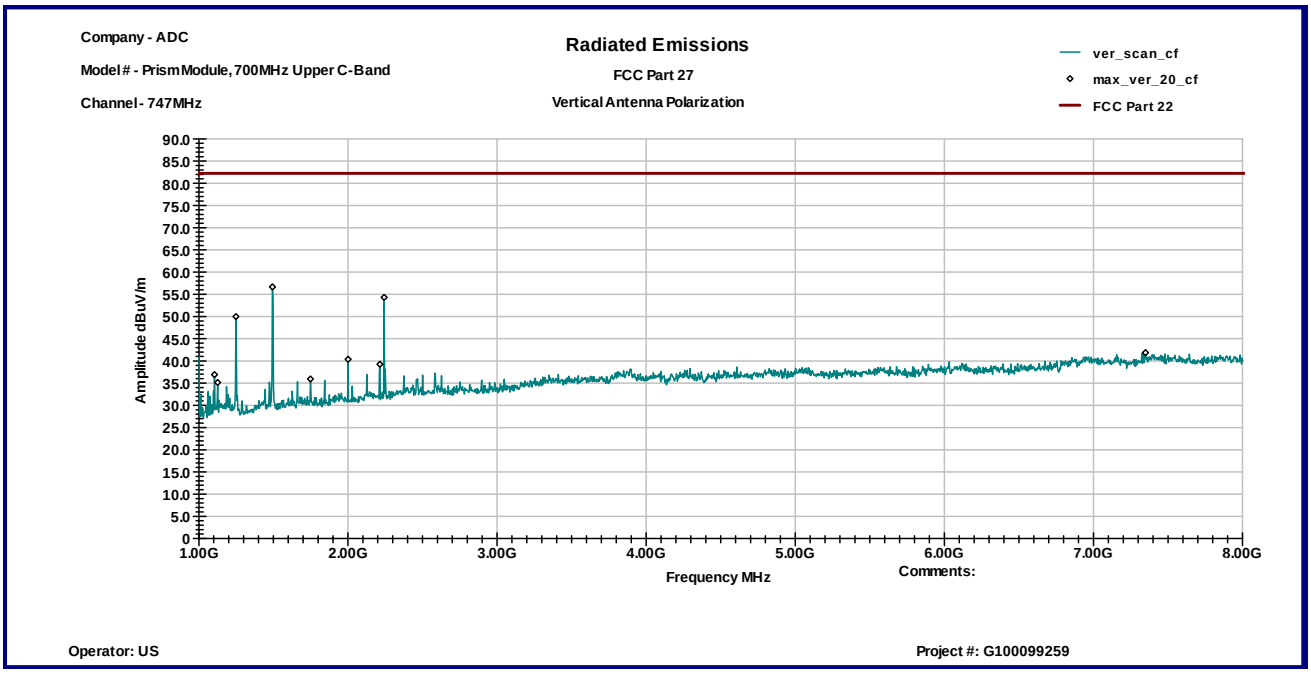
Graph 4



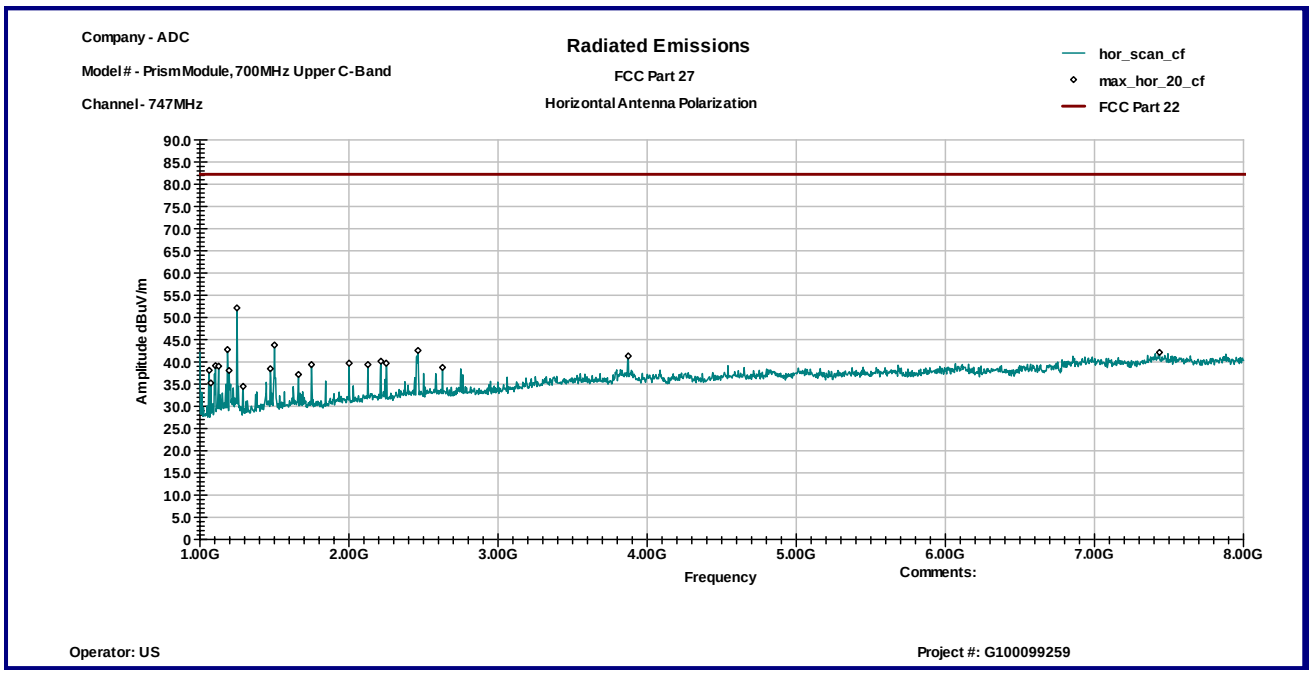
Graph 5



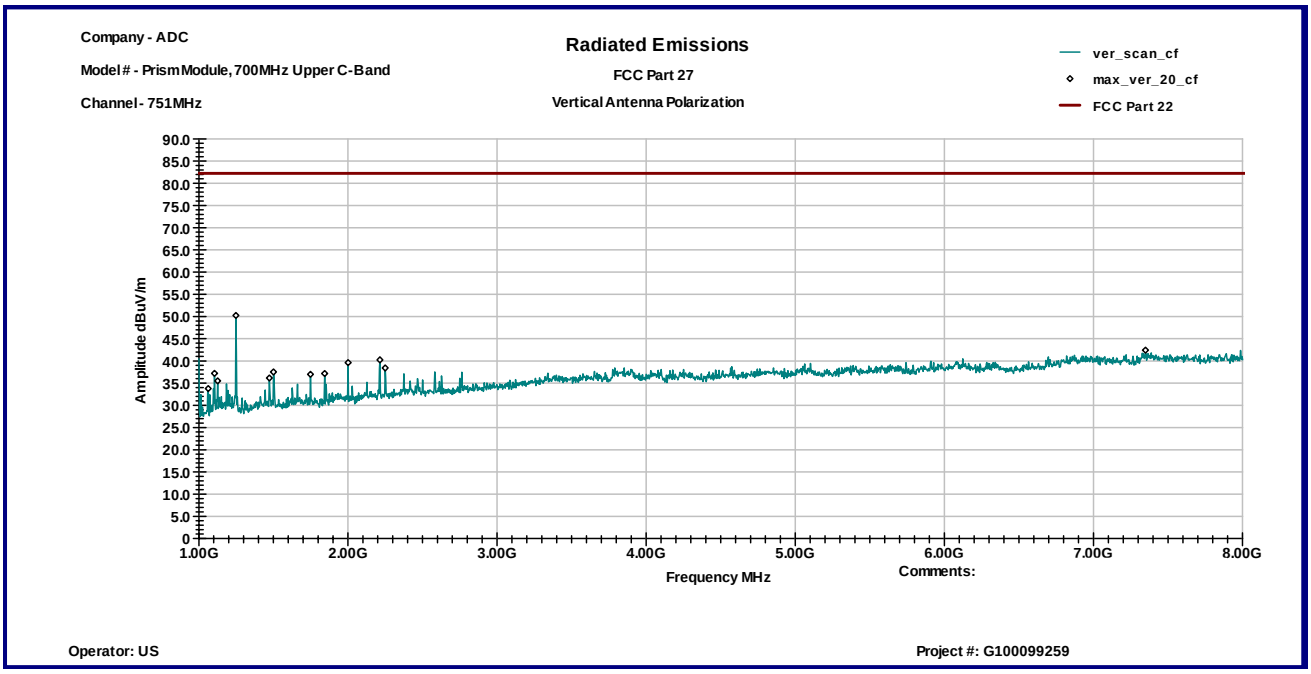
Graph 6



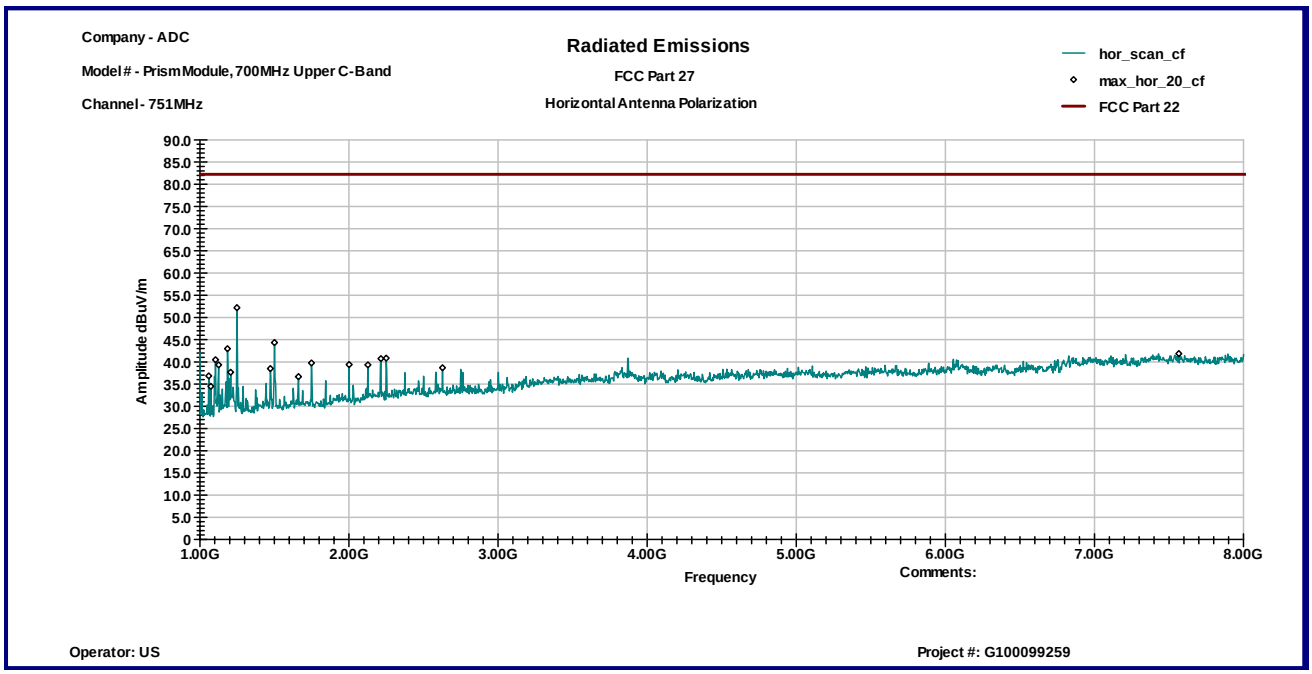
Graph 7



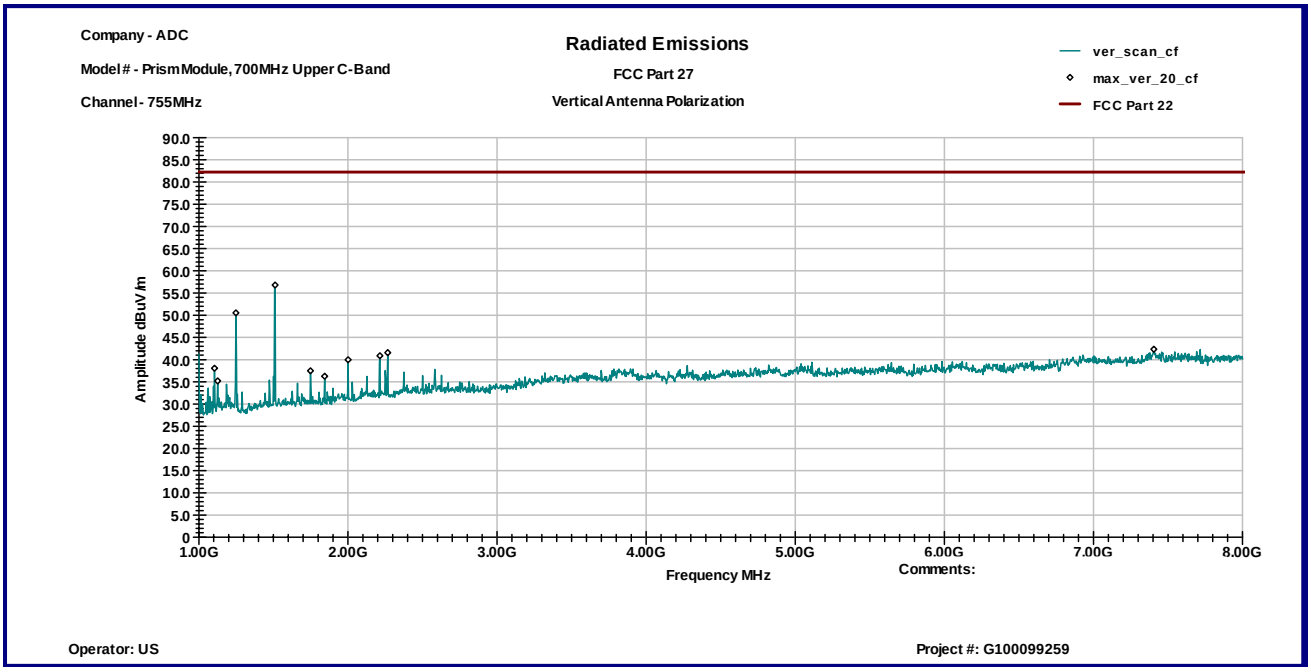
Graph 8



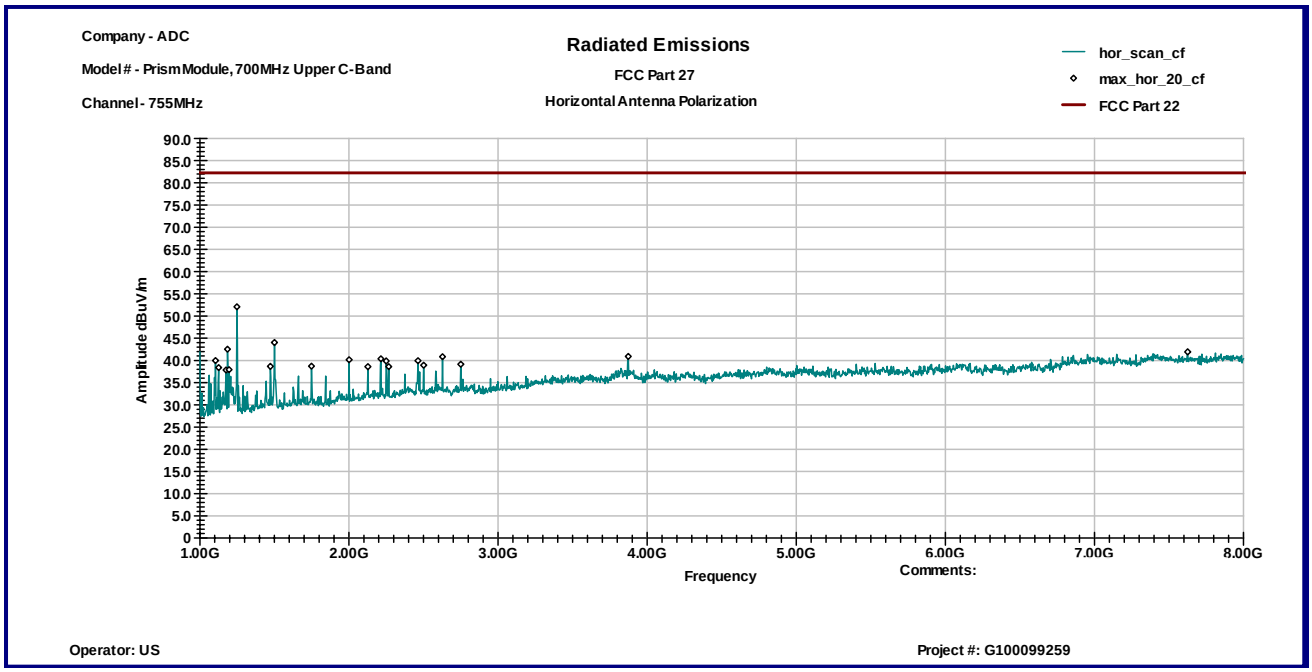
Graph 9



Graph 10



Graph 11



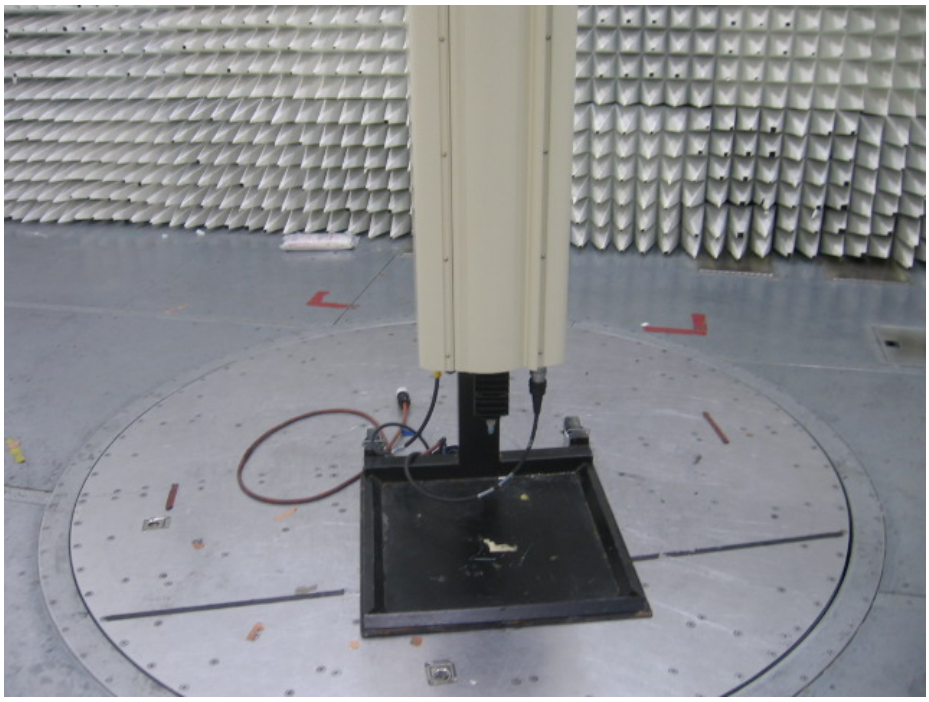
Graph 12

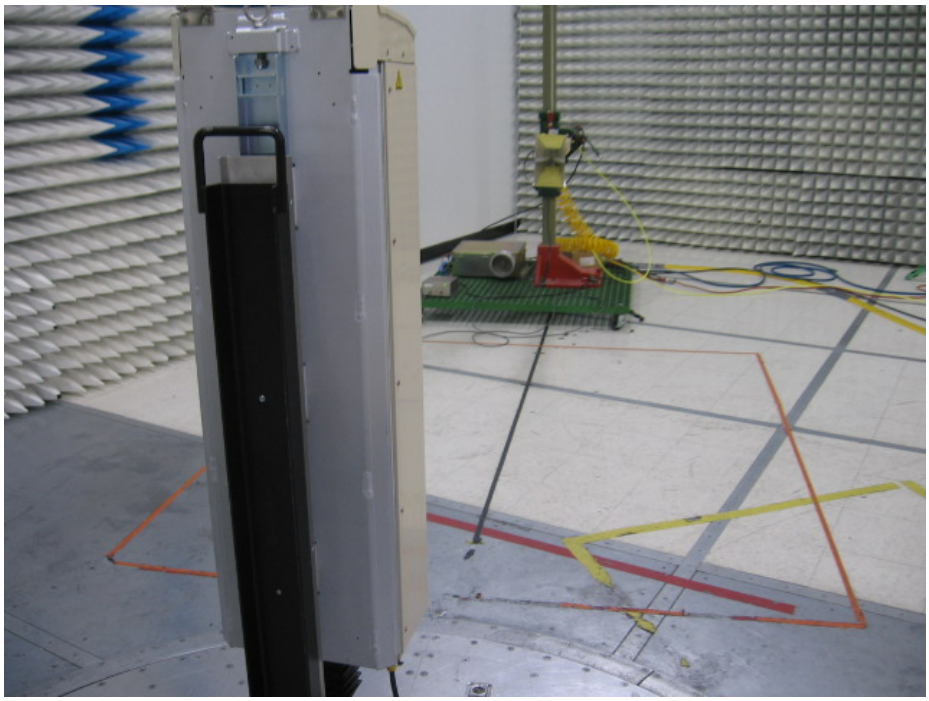
3.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	86-106 kPa

4.0 PHOTOS





5.0 TEST EQUIPMENT

DESCRIPTION	MANUFACTURER	MODEL	SERIAL NO.	INTERTEK ID	CAL DUE	USED
Spectrum Analyzer	R & S	FSP 40	100024	12559	09/10/2010	☒
Spectrum Analyzer	R & S	ESCI	100358	12909	05/18/2010	☒
Bicono-Log Antenna	Schaffner-Chase	CBL 6112 B	2468	14459	09/22/2010	☒
Horn Antenna	EMCO	3115	9507-4513	9936	04/13/2011	☒
Pre-Amplifier	MITEQ	AMF-5D-00501800-28-13P	1402232	172081	08/07/2010	☒
System	TILE! Instrument Control		Ver. 3.4.K.29	15259	VBU	☒

Annex 1: Antenna Conducted Emissions

Table of Contents

1.1 Test Regulations

27.50 Power limits
27.53 Emission limits
27.54 Frequency stability

IC RSS-131 Issue 2 Zone Enhancers for the Land Mobile Service

The emissions tests were performed according to the following regulations:

☐ FCC Part 22

☐ FCC Part 24

■ **FCC Part 27**

1.2 Test Operation Mode

☐ Standby

☐ Test Program

☐ Practice Operation

■ **Max composite in and out**

1.3 Configuration of the Device Under Test:

Normal Operation – AWS - 746 to 756 MHz

1.4 Product Options:

None

1.5 Cables:

Cable Type	Length	From	To
RF	> 3M	Ancillary Equip	EUT
RF	< 3M	EUT	50 Ohm Load
Power	< 3M	Power	Input Power
Fiber	> 3M	Ancillary Equip	EUT

1.6 Support Equipment

Description	Manufacturer	Model #	FCC ID #
Power Meter	HP	EPM-441A	
Signal Generator	Agilent	E4438C	
Attenuator	Aeroflex	86-30-12	

1.7 Deviations from Standard:

Modifications required to pass:

☐ As indicated on the data sheet(s)

■ **None**

Test Specification Deviations; Additions to or Exclusions from:

☐ As indicated in the Test Plan

■ **None**

1.8 General Remarks:

None.

1.9 Summary:

The requirements according to the technical regulations are

■ **met**

☐ not Met

2.0 FCC TEST RESULTS

2.1.1 27.50 RF Power Limits

Test Summary:

- The requirements are: ■ **MET** □ NOT MET
- Minimum margin of compliance is 6.2 dB at 754.5 MHz (3 MHz LTE)

Test Location:

■ Intertek (Oakdale, MN)

Test Distance:

□ 3 Meters

□ 10 Meters

■ **Conducted measurement**

Test Limit:
100 Watts or 50 dBm Limit

Test Data: Below

Date: 28 April, 2010

Conducted Output Power Test

*Note: The EUT is a fixed repeater and not a base station.

This measurement was made as a direct conducted emission measurement. The output from the EUT antenna connector was connected to the power meter. The carrier output, below, was conducted using a single 1.4, 3, 5, and 10 MHz LTE signal. The power meter level was offset to compensate for attenuators and cable loss between the EUT and the power meter.

A signal was used at the low, mid and high parts of the selected band. The power meter level was offset by 31.0 dB to compensate for cable loss and attenuator between the EUT and the power meter.

1.4 LTE	**23.17 Watts**
Carrier Frequency	Carrier Output
746.7 MHz	43.30 dBm
751 MHz	43.35 dBm
755.3 MHz	43.65 dBm

3 LTE	**23.99 Watts**
Carrier Frequency	Carrier Output
747.5 MHz	43.44 dBm
751 MHz	43.75 dBm
754.5 MHz	43.80 dBm

5 LTE	**23.44 Watts**
Carrier Frequency	Carrier Output
748.5 MHz	43.53 dBm
751 MHz	43.31 dBm
753.5 MHz	43.70 dBm

10 LTE	**23.88 Watts**
Carrier Frequency	Carrier Output
751 MHz	43.78 dBm

2.1.2 27.54 Frequency Stability

Test Summary:

- The requirements are: ■ **MET** □ NOT MET
- The fundamental emission stays within the limit.
- Frequency measured over a temperature range of –30 to 50º C and an input voltage range of 100 to 240 VAC.

Test Location:

■ Intertek (Oakdale, MN)

Test Distance:

□ 3 Meters

□ 10 Meters

■ **Conducted measurement**

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

Test Data: **Date:** 29 April, 2010
Below

Frequency Tolerance Test

HOST	REMOTE			
Input Voltage	**Input Voltage**	**Carrier Frequency**	**Measured Frequency**	**Meets Requirements?**
21 VDC	100 VAC	746.200MHz	746.200MHz	Yes
48 VDC	170 VAC	746.200MHz	746.200MHz	Yes
60 VDC	240 VAC	746.200MHz	746.200MHz	Yes
21 VDC	100 VAC	751.000 MHz	751.000 MHz	Yes
48 VDC	170 VAC	751.000 MHz	751.000 MHz	Yes
60 VDC	240 VAC	751.000 MHz	751.000 MHz	Yes
21 VDC	100 VAC	755.800MHz	755.800MHz	Yes
48 VDC	170 VAC	755.800MHz	755.800MHz	Yes
60 VDC	240 VAC	755.800MHz	755.800MHz	Yes
Temperature		**Carrier Frequency**	**Measured Frequency**	**Meets Requirements?**
-30 Deg. C		746.200MHz	746.200MHz	Yes
-20 Deg. C		746.200MHz	746.200MHz	Yes
-10 Deg. C		746.200MHz	746.200MHz	Yes
0 Deg. C		746.200MHz	746.200MHz	Yes
10 Deg. C		746.200MHz	746.200MHz	Yes
20 Deg. C		746.200MHz	746.200MHz	Yes
30 Deg. C		746.200MHz	746.200MHz	Yes
40 Deg. C		746.200MHz	746.200MHz	Yes
50 Deg. C		746.200MHz	746.200MHz	Yes
-30 Deg. C		751.000 MHz	751.000 MHz	Yes
-20 Deg. C		751.000 MHz	751.000 MHz	Yes
-10 Deg. C		751.000 MHz	751.000 MHz	Yes
0 Deg. C		751.000 MHz	751.000 MHz	Yes
10 Deg. C		751.000 MHz	751.000 MHz	Yes
20 Deg. C		751.000 MHz	751.000 MHz	Yes
30 Deg. C		751.000 MHz	751.000 MHz	Yes
40 Deg. C		751.000 MHz	751.000 MHz	Yes
50 Deg. C		751.000 MHz	751.000 MHz	Yes
-30 Deg. C		755.800MHz	755.800MHz	Yes
-20 Deg. C		755.800MHz	755.800MHz	Yes
-10 Deg. C		755.800MHz	755.800MHz	Yes
0 Deg. C		755.800MHz	755.800MHz	Yes
10 Deg. C		755.800MHz	755.800MHz	Yes
20 Deg. C		755.800MHz	755.800MHz	Yes
30 Deg. C		755.800MHz	755.800MHz	Yes
40 Deg. C		755.800MHz	755.800MHz	Yes
50 Deg. C		755.800MHz	755.800MHz	Yes

2.1.3 27.53 Emission Limitations

Test Summary:

- The requirements are: ■ **MET** □ NOT MET
- Out of band emissions were less than –13 dBm.
- Outside the emission bandwidth of the carrier, all emissions are attenuated at least 26 dB below the transmitter power.

Test Location:

■ Intertek (Oakdale, MN)

Test Distance:

□ 3 Meters

□ 10 Meters

■ **Conducted measurement**

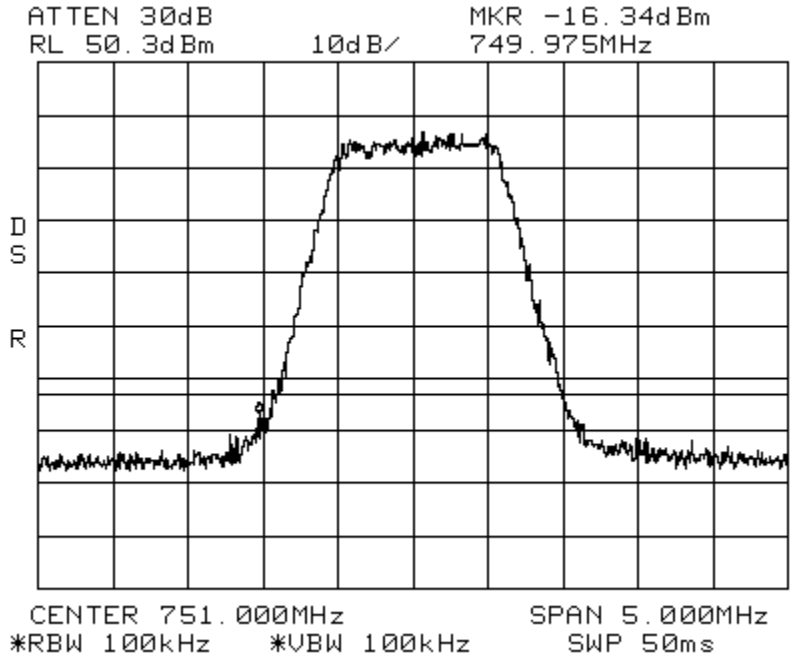
Test Limit:
Out of band emissions:
Attenuated below the transmitting power (P) by a factor of at least 43 + 10log(P) dB, or –13 dBm.

Outside of the carrier emissions bandwidth:
26 dB below the transmitter power

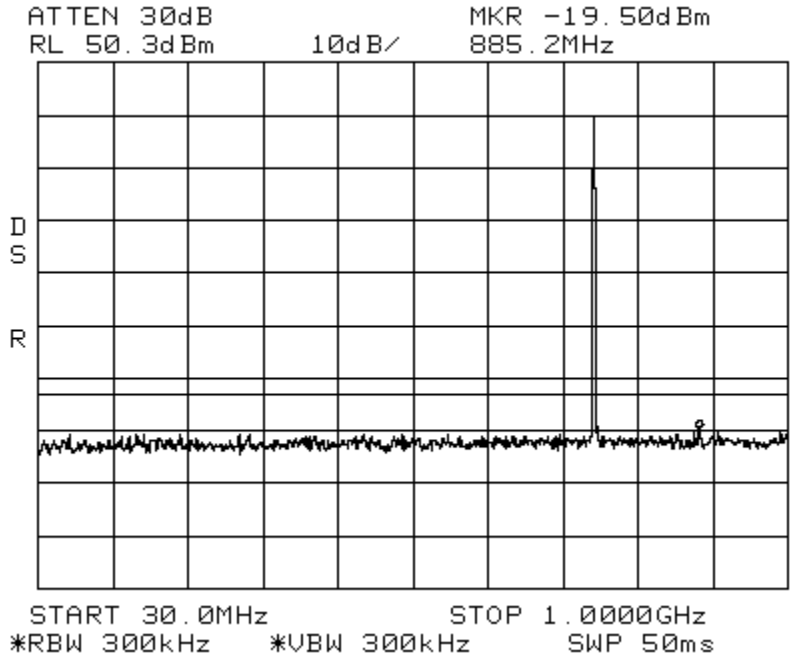
Test Data: **Date:** 28 April, 2010
Conducted Emissions
Intermodulation Test
Occupied Bandwidth
Band Edge

Below

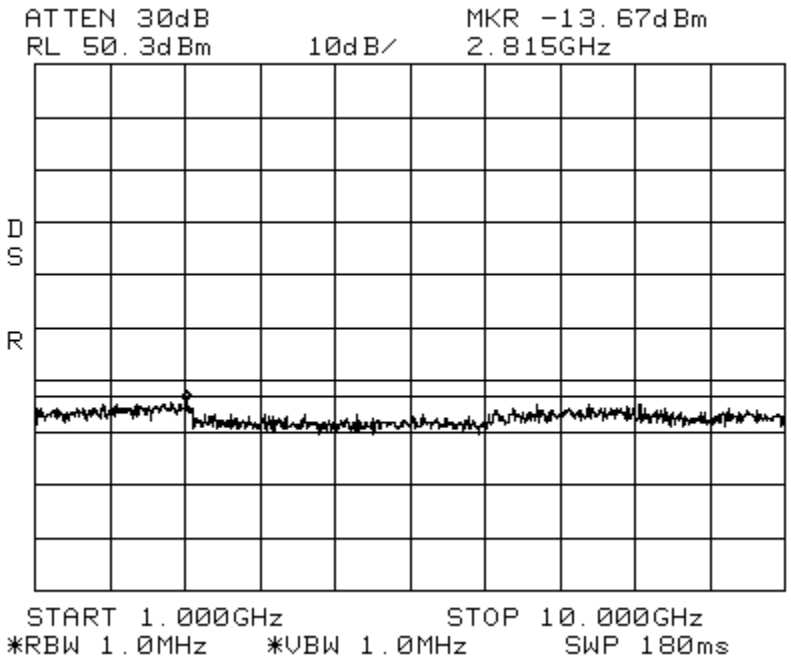
Conducted Emissions LTE 1.4 MHz Channel Bandwidth 700UpperC
Center: 751 MHz Span: 5 MHz RBW/VBW: 100 kHz



Conducted Emissions LTE 1.4 MHz Channel Bandwidth 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

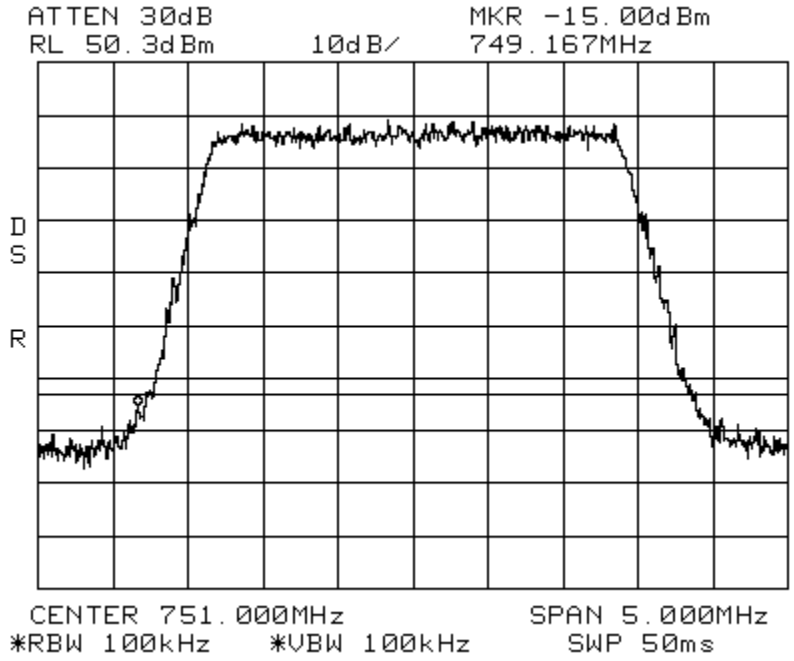


Conducted Emissions LTE 1.4 MHz Channel Bandwidth 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



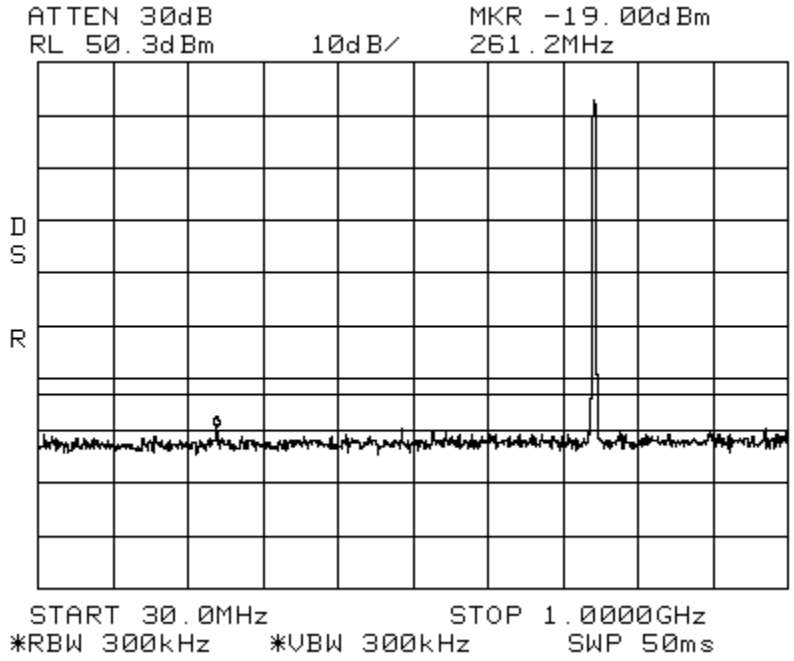
Conducted Emissions 700UpperC

Center: 751 MHz Span: 5 MHz RBW/VBW: 100 kHz

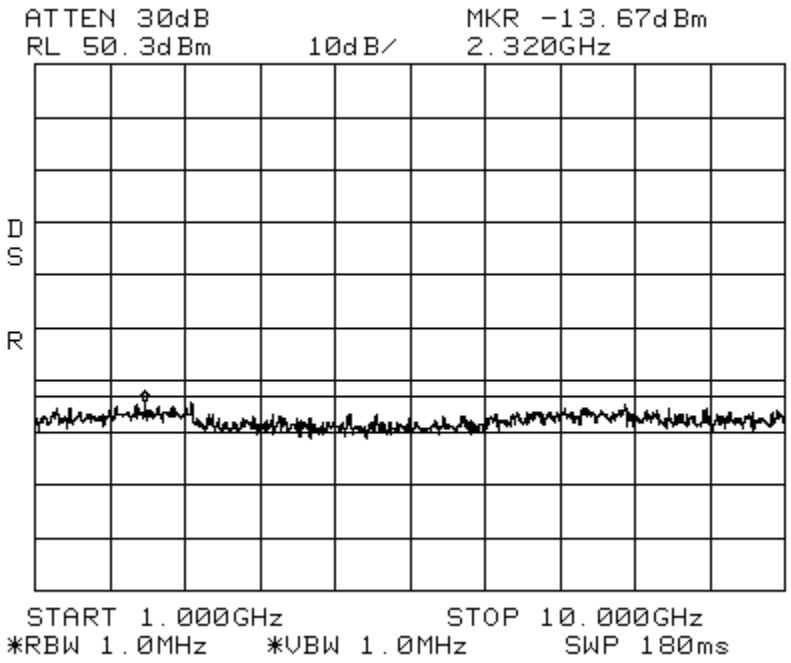


Conducted Emissions LTE 3 MHz Channel Bandwidth 700UpperC

Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

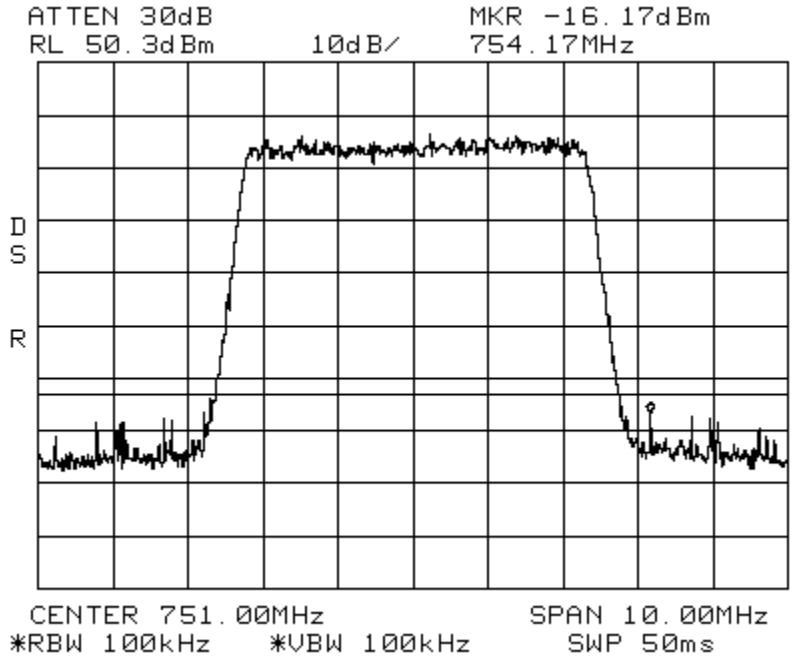


Conducted Emissions LTE 3 MHz Channel Bandwidth 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



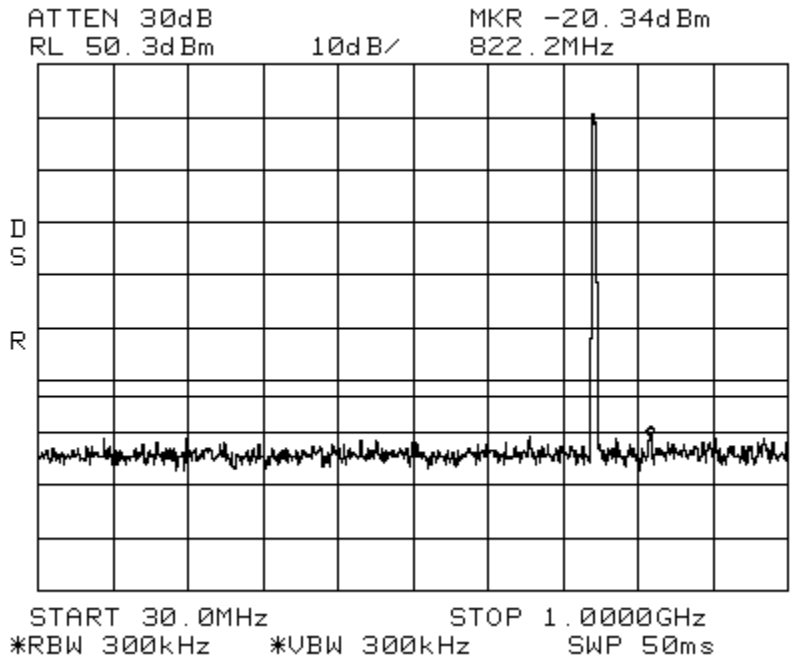
Conducted Emissions 700UpperC

Center: 751 MHz Span: 10 MHz RBW/VBW: 100 kHz

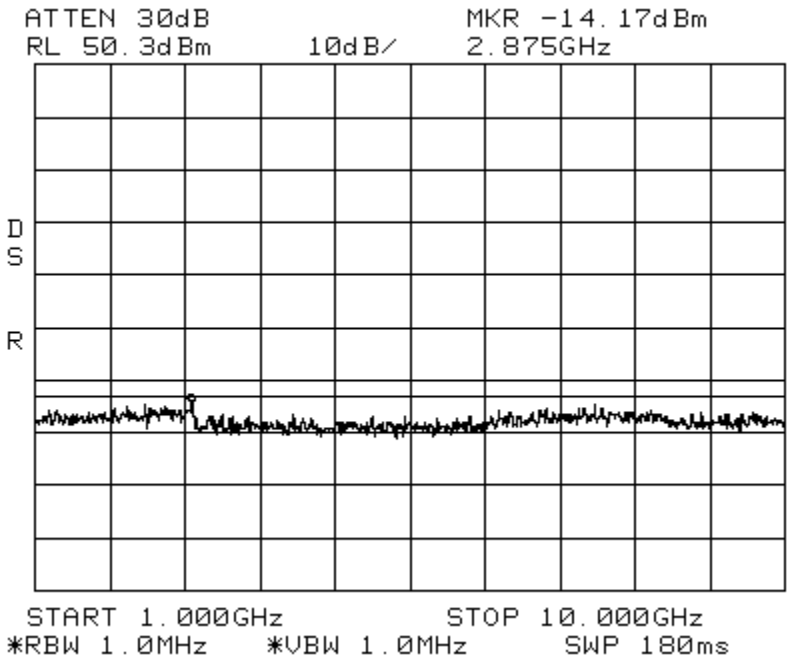


Conducted Emissions LTE 5 MHz Channel Bandwidth 700UpperC

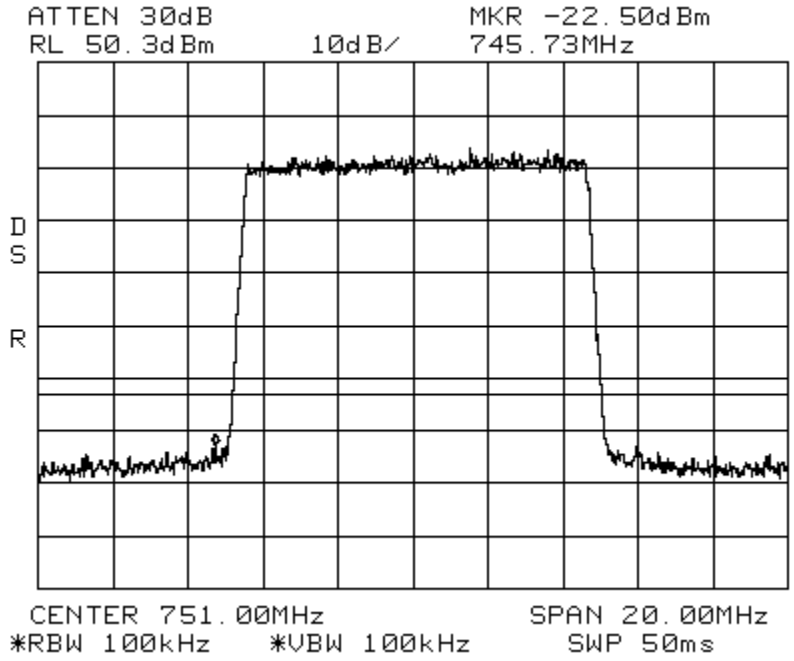
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz



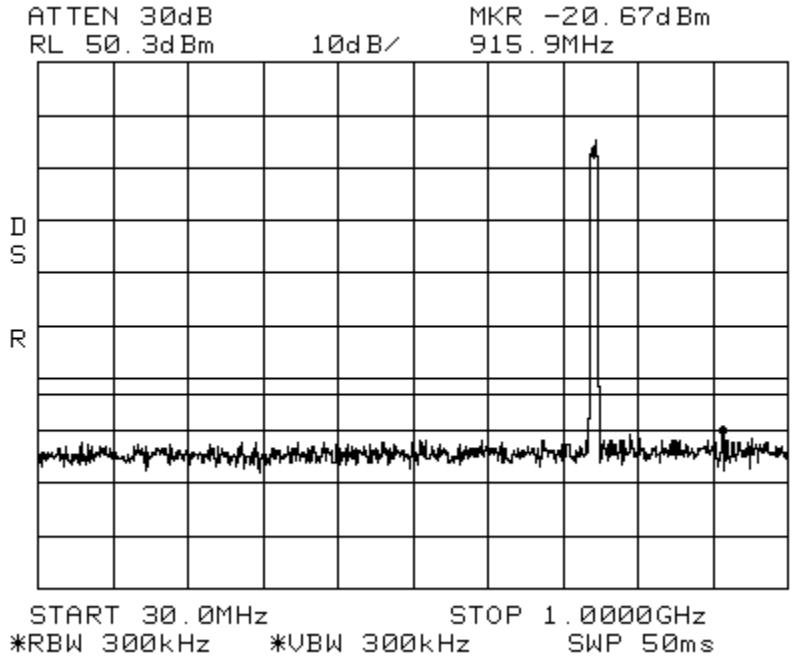
Conducted Emissions LTE 5 MHz Channel Bandwidth 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



Conducted Emissions 700UpperC
Center: 751 MHz Span: 20MHz RBW/VBW: 100 kHz

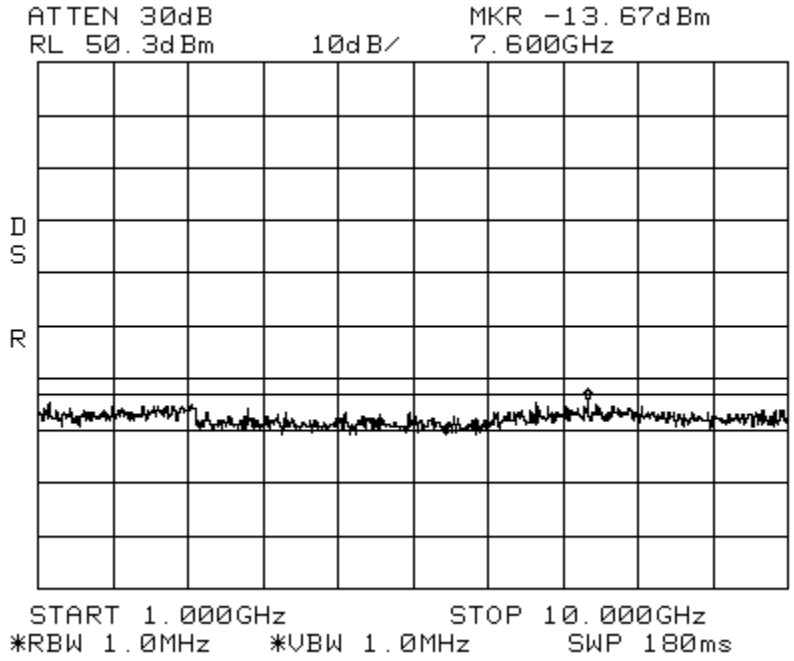


Conducted Emissions LTE 10 MHz Channel Bandwidth 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

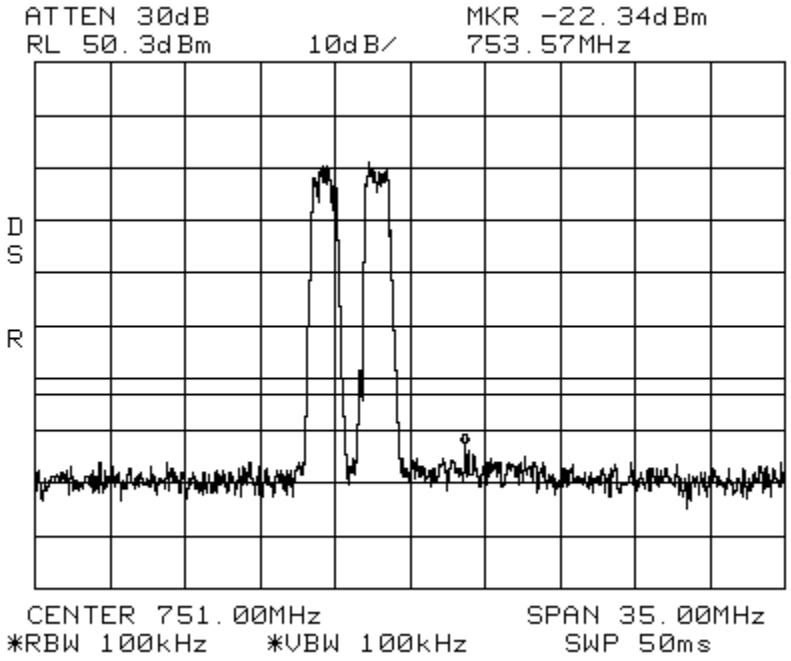


Conducted Emissions LTE 10 MHz Channel Bandwidth 700UpperC

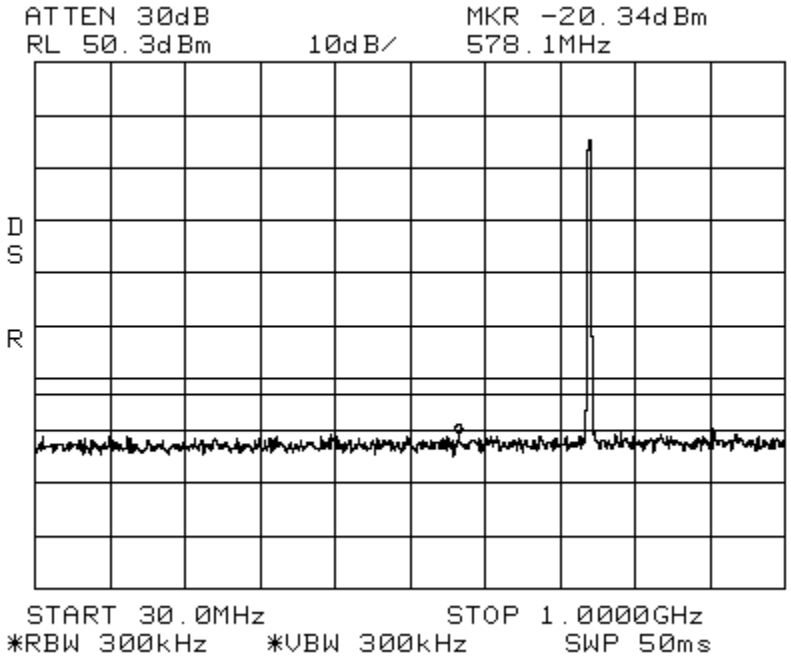
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



Intermodulation LTE 1.4 MHz Channel Bandwidth_**Low** 700UpperC
Center: 751 MHz Span: 35 MHz RBW/VBW: 100 kHz

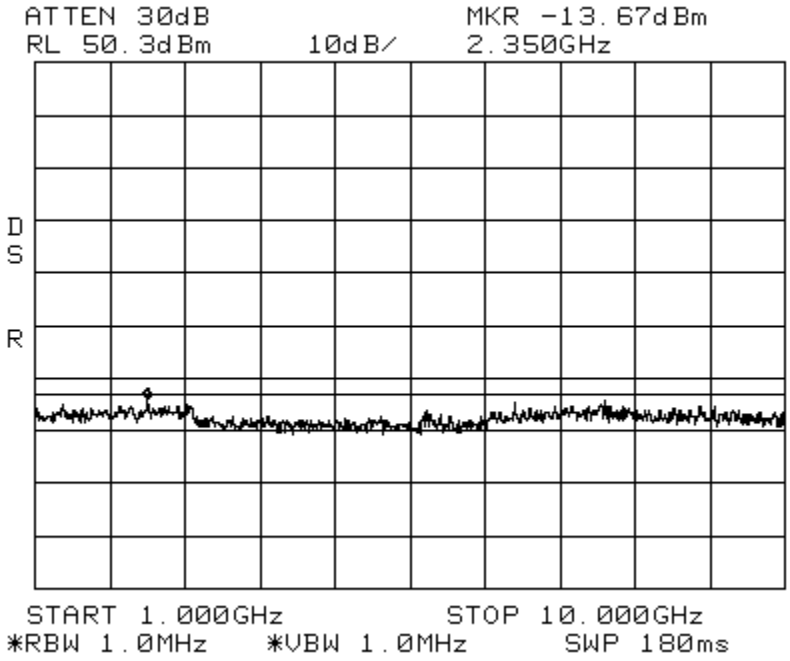


Intermodulation LTE 1.4 MHz Channel Bandwidth _Low 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

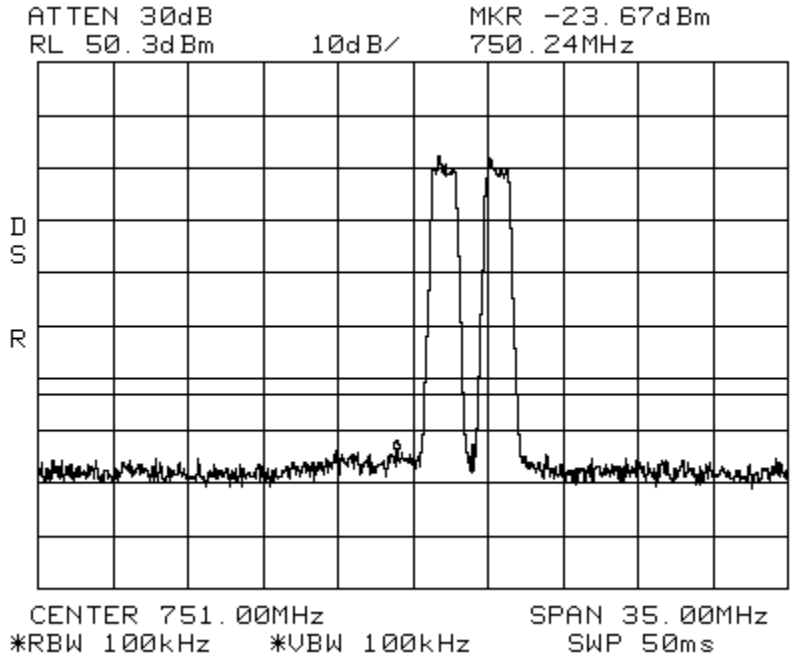


Intermodulation LTE 1.4 MHz Channel Bandwidth _Low 700UpperC

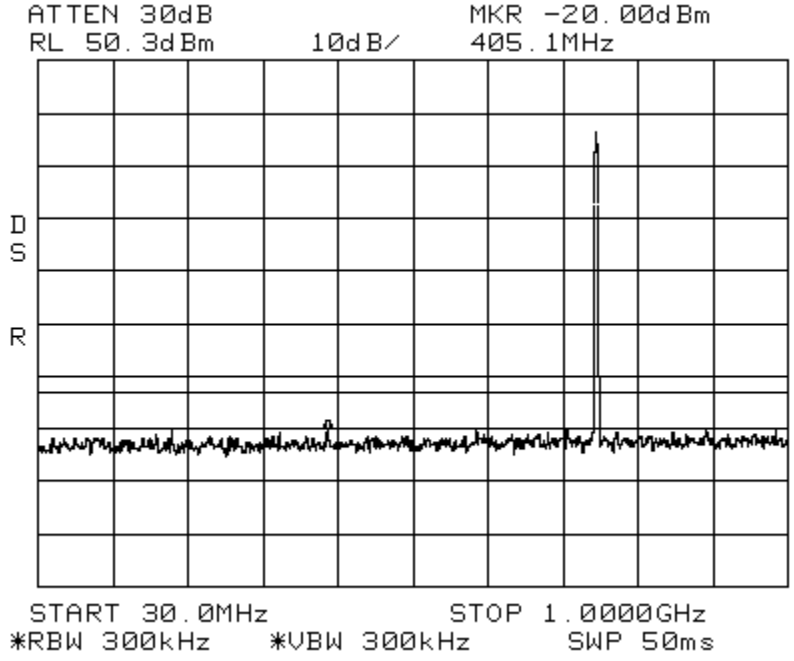
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



Intermodulation LTE 1.4 MHz Channel Bandwidth _High 700UpperC
Center: 751 MHz Span: 35 MHz RBW/VBW: 100 kHz

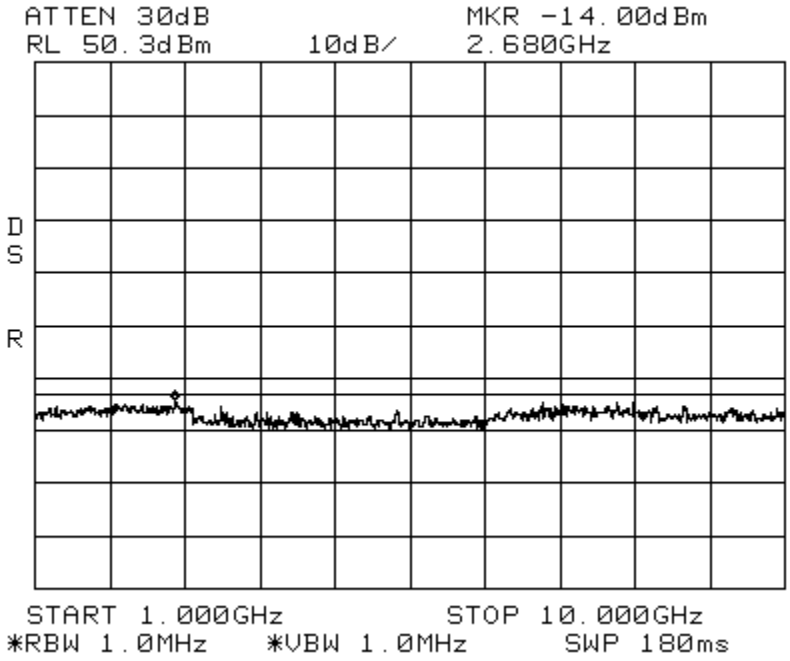


Intermodulation LTE 1.4 MHz Channel Bandwidth _High 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

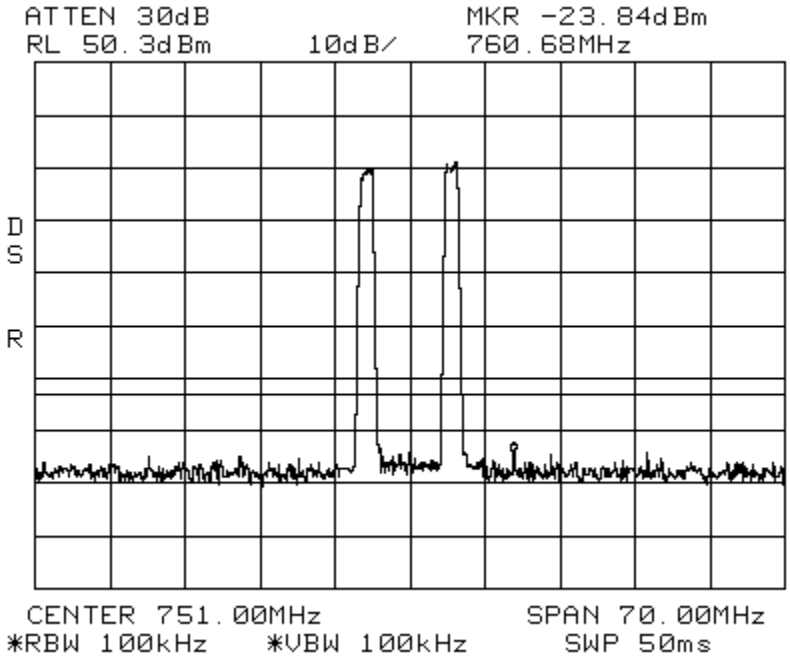


Intermodulation LTE 1.4 MHz Channel Bandwidth _High 700UpperC

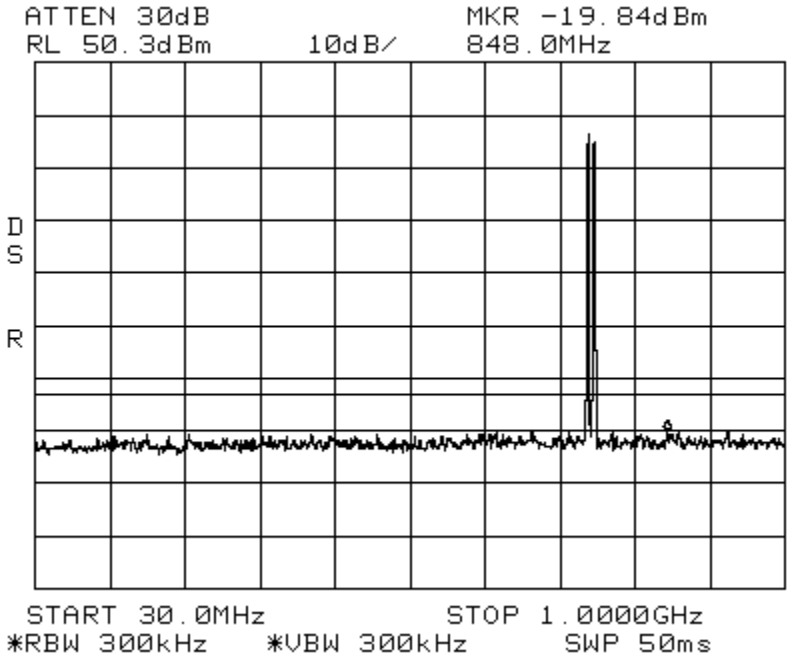
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



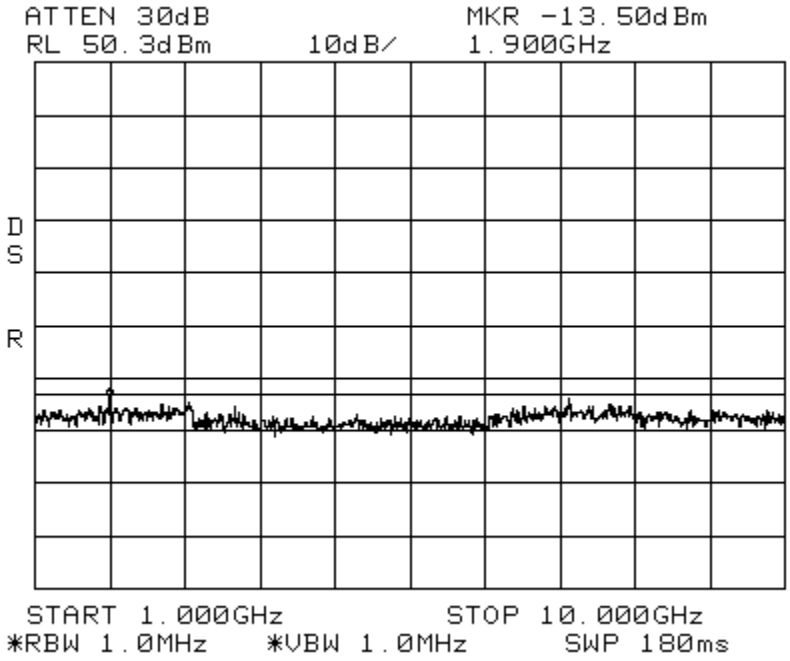
Intermodulation LTE 1.4 MHz Channel Bandwidth _Apart 700UpperC
Center: 751 MHz Span: 70 MHz RBW/VBW: 100 kHz



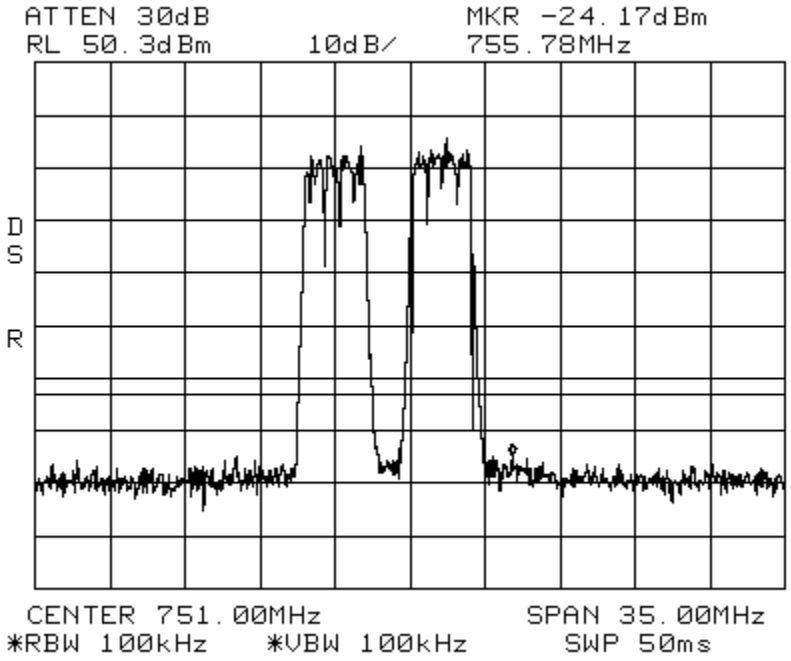
Intermodulation LTE 1.4 MHz Channel Bandwidth _Apart 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz



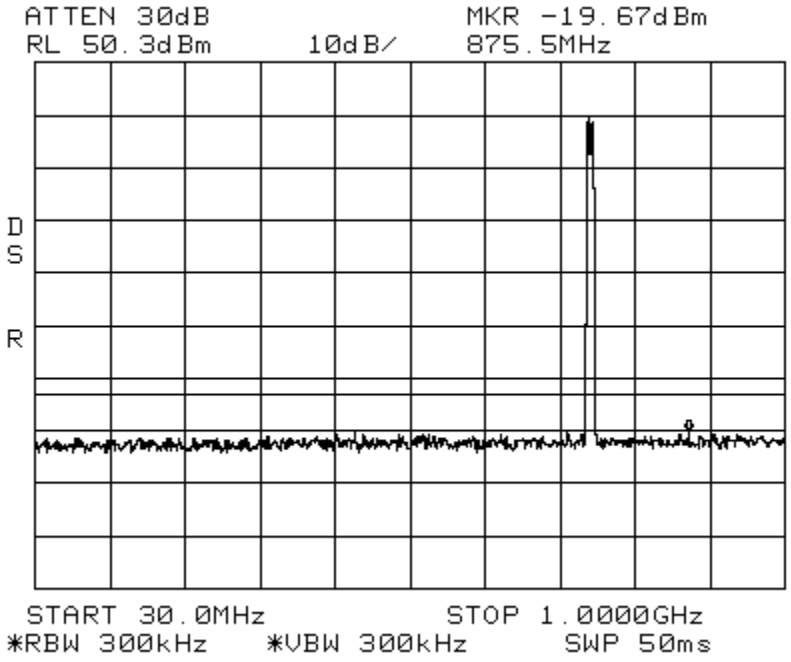
Intermodulation LTE 1.4 MHz Channel Bandwidth _Apart 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



Intermodulation LTE 3 MHz Channel Bandwidth_**Low** 700UpperC
Center: 751 MHz Span: 35 MHz RBW/VBW: 100 kHz

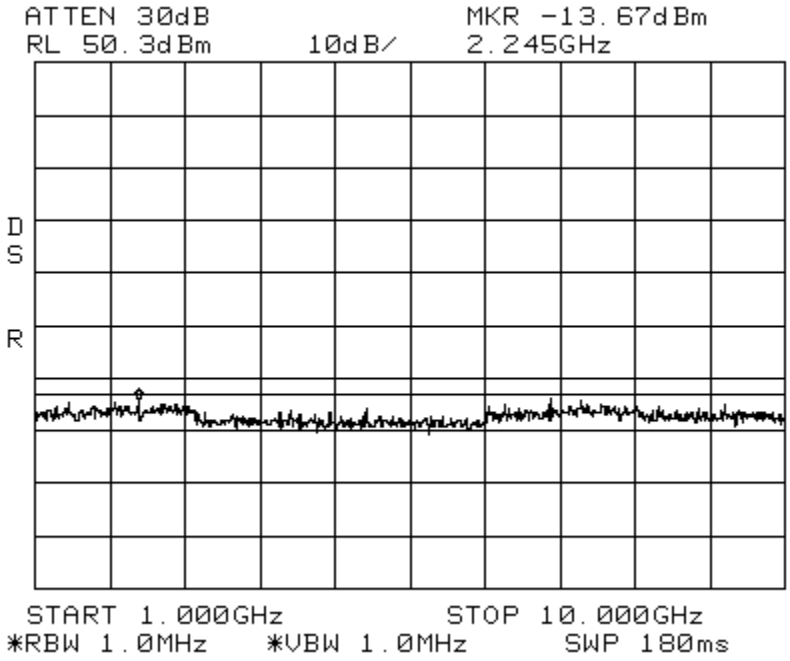


Intermodulation LTE 3MHz Channel Bandwidth _Low700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

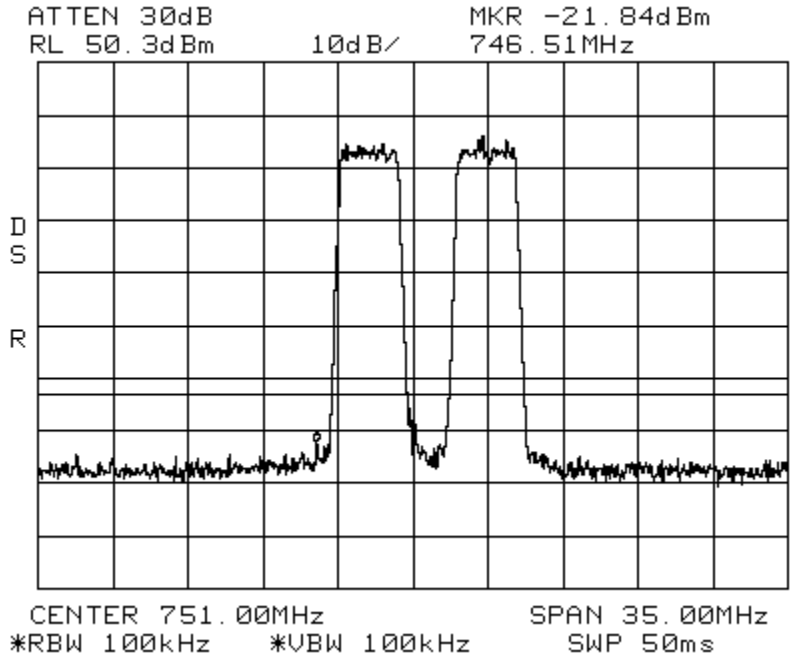


Intermodulation LTE 3 MHz Channel Bandwidth _Low 700UpperC

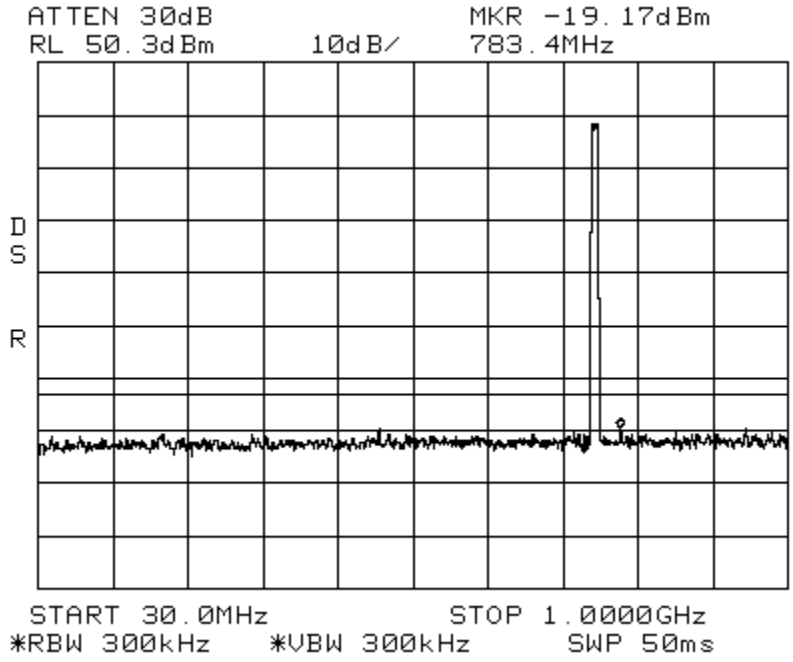
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



Intermodulation LTE 3 MHz Channel Bandwidth _High 700UpperC
Center: 751 MHz Span: 35 MHz RBW/VBW: 100 kHz

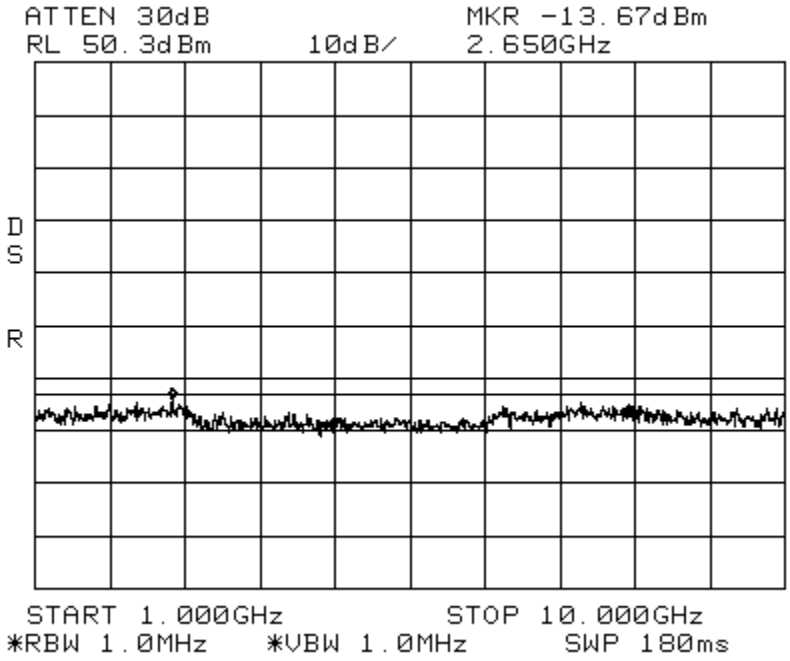


Intermodulation LTE 3 MHz Channel Bandwidth _High 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

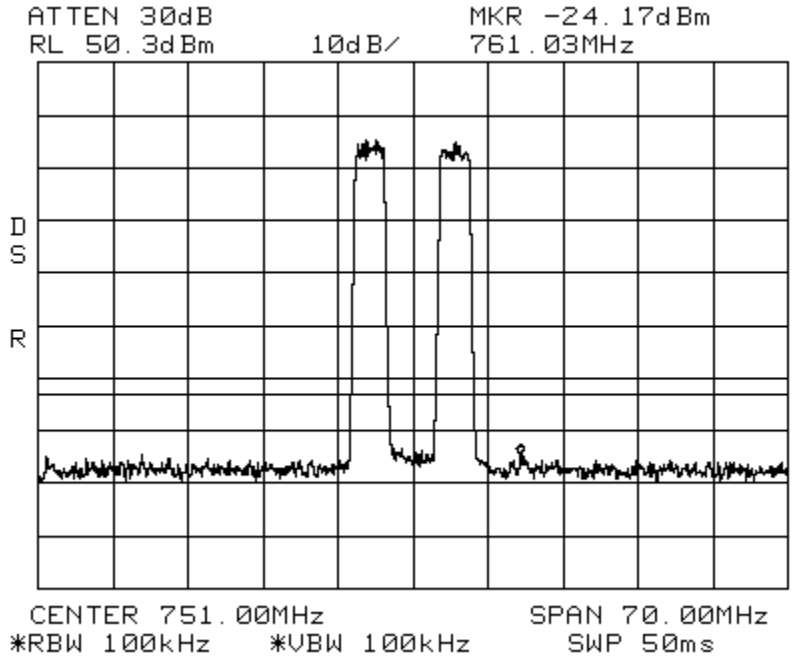


Intermodulation LTE 3 MHz Channel Bandwidth _High 700UpperC

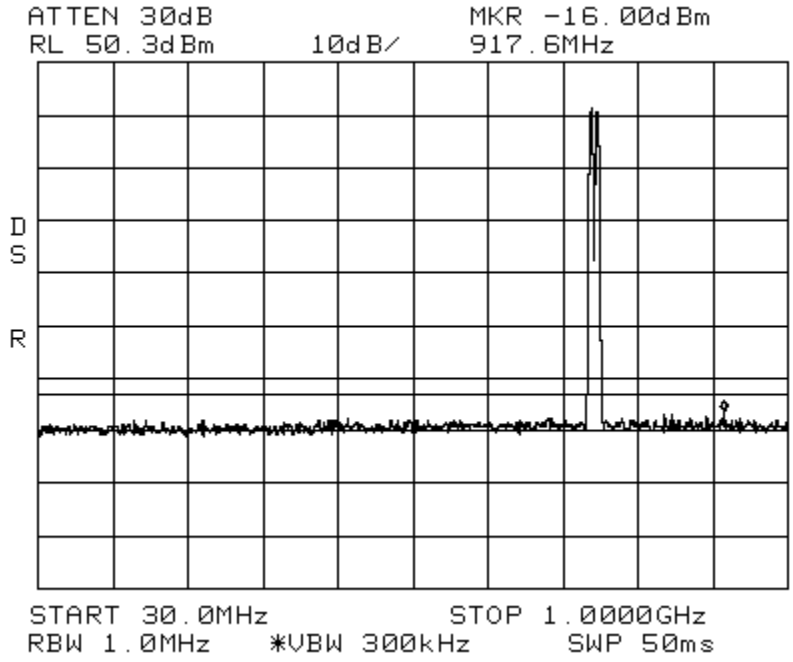
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



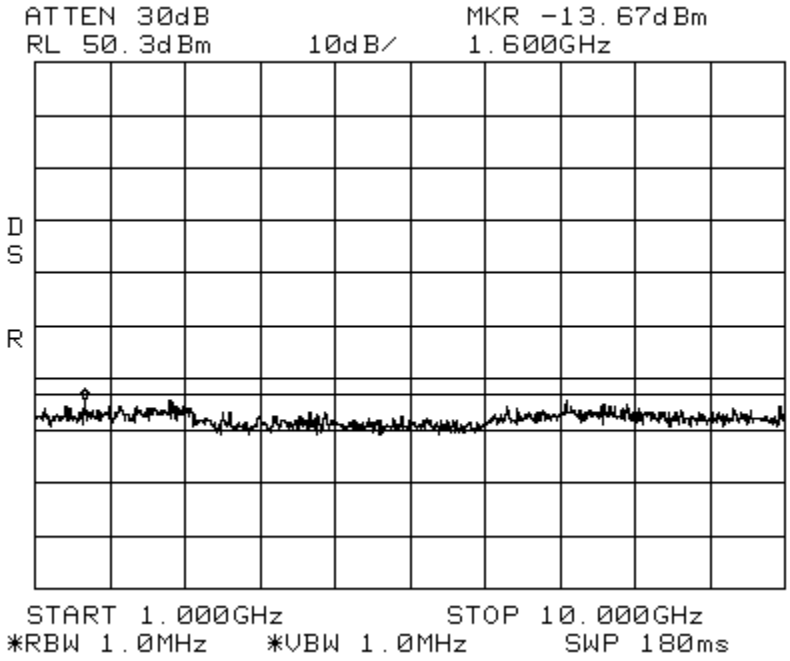
Intermodulation LTE 3 MHz Channel Bandwidth _Apart 700UpperC
Center: 751 MHz Span: 70 MHz RBW/VBW: 100 kHz



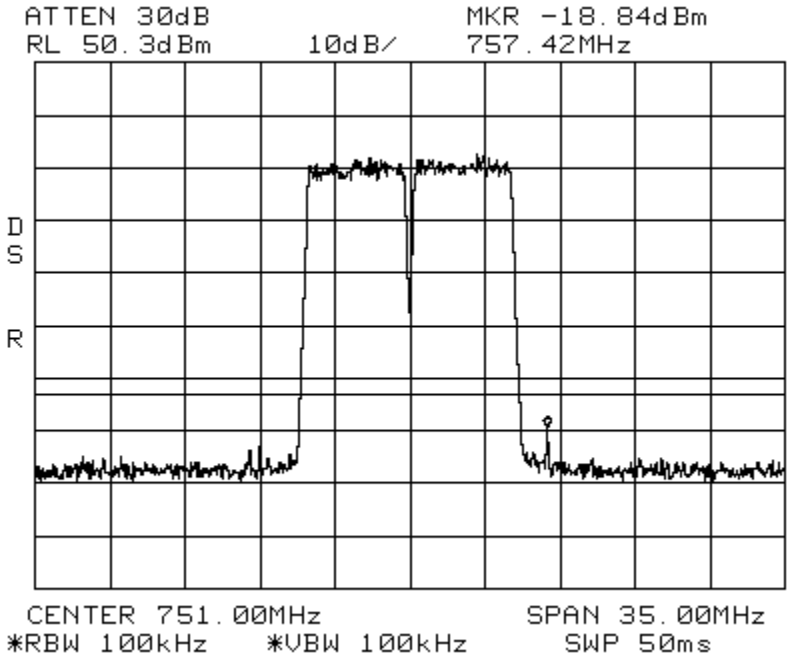
Intermodulation LTE 3 MHz Channel Bandwidth _Apart 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz



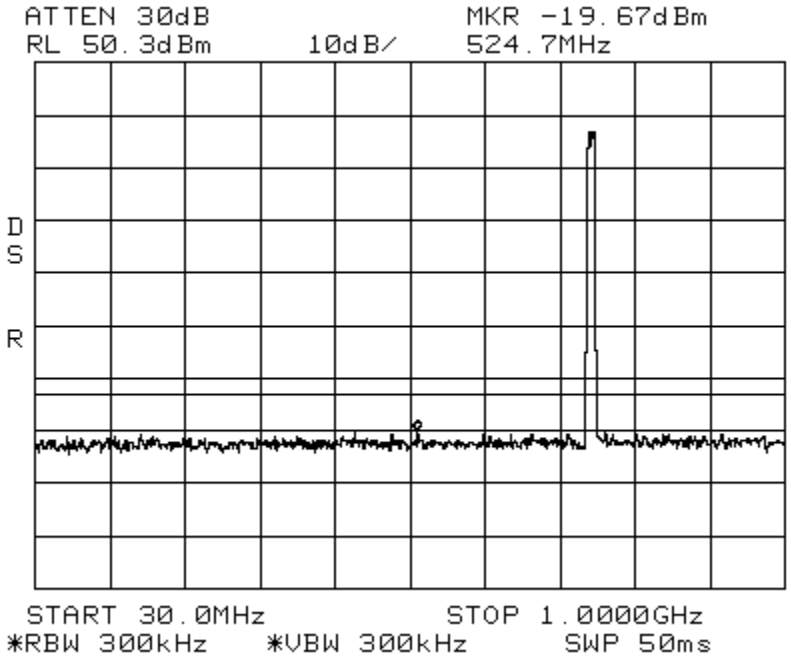
Intermodulation LTE 3 MHz Channel Bandwidth _Apart 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



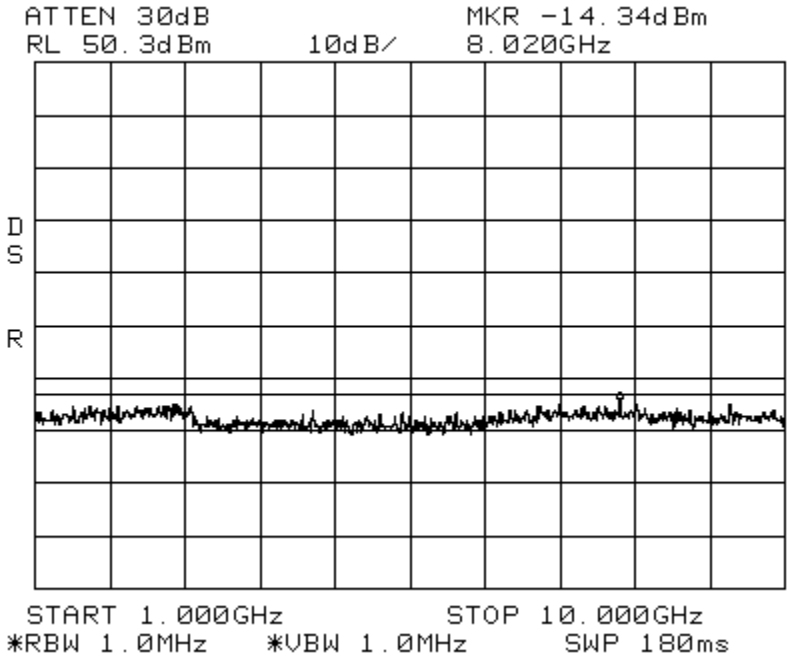
Intermodulation LTE 5 MHz Channel Bandwidth_**Low** 700UpperC
Center: 751 MHz Span: 35 MHz RBW/VBW: 100 kHz



Intermodulation LTE 5 MHz Channel Bandwidth _Low 700UpperC
Span: 30 MHz to 1 GHz RBW/VBW: 300 kHz

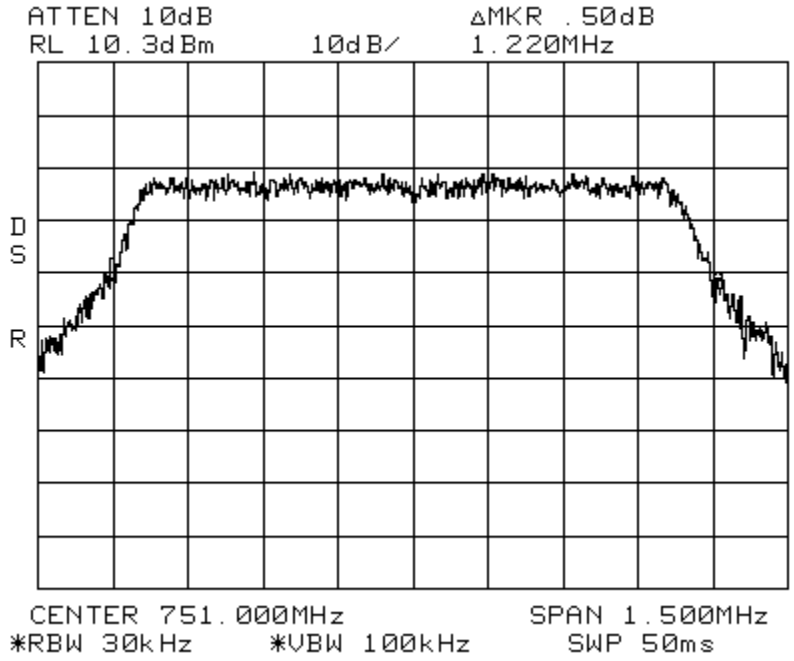


Intermodulation LTE 5 MHz Channel Bandwidth _Low 700UpperC
Span: 1 GHz to 10 GHz RBW/VBW: 1 MHz



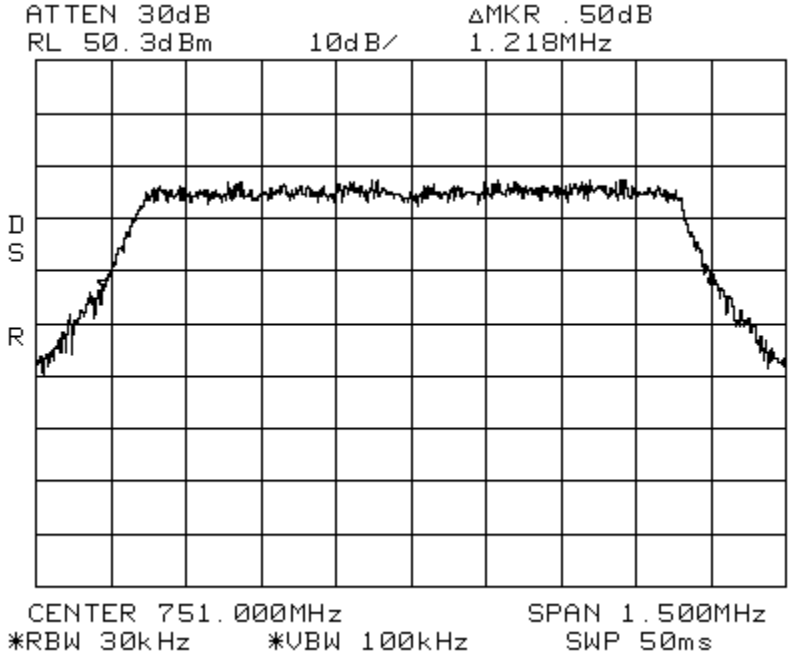
Occupied Bandwidth LTE 1.4 MHz Channel Bandwidth_Signal_In 700UpperC

Span: 1.50 MHz RBW: 30 kHz VBW: 100 kHz



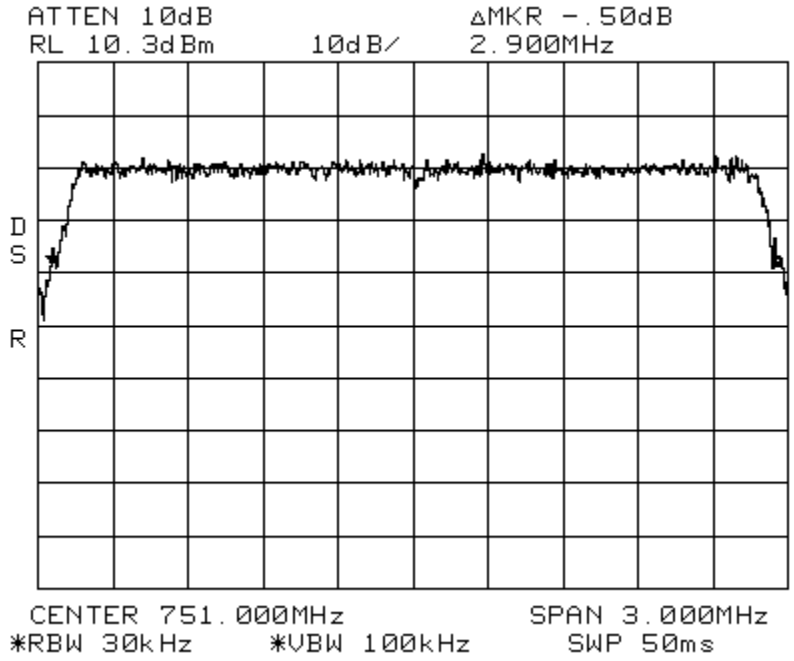
Occupied Bandwidth LTE 1.4 MHz Channel Bandwidth _Signal_Out 700UpperC

Span: 1.50 MHz RBW: 30 kHz VBW: 100 kHz



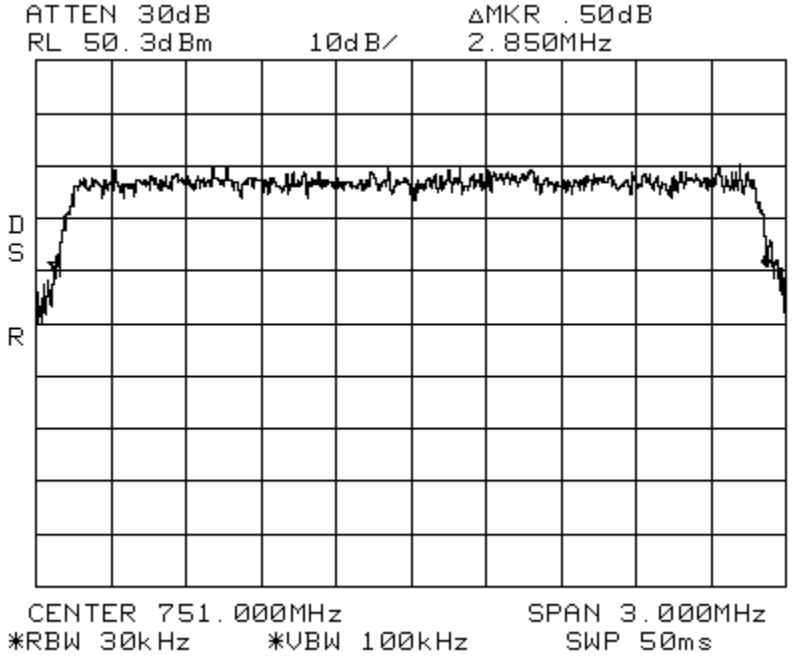
Occupied Bandwidth LTE 3 MHz Channel Bandwidth_Signal_In 700UpperC

Span: 3 MHz RBW: 30kHz VBW: 100 kHz



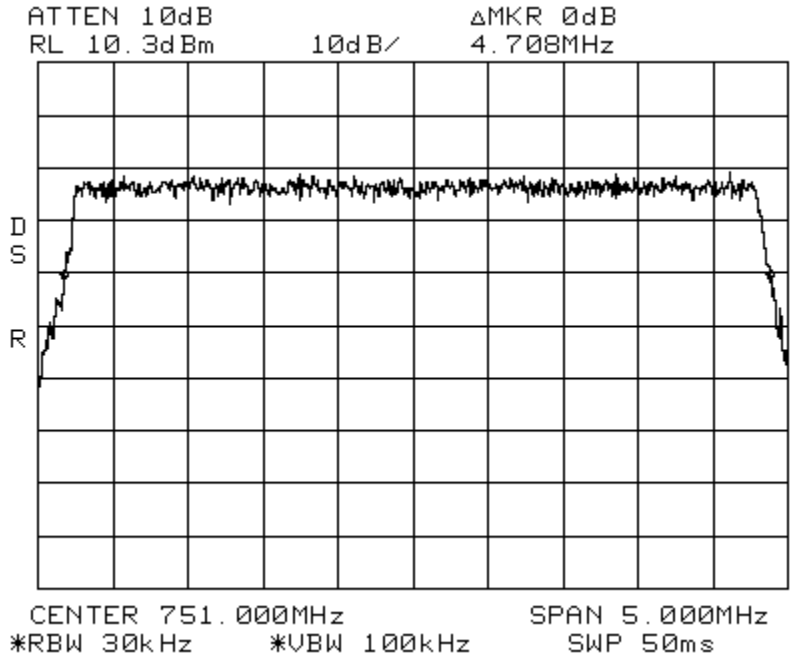
Occupied Bandwidth LTE 3 MHz Channel Bandwidth _Signal_Out 700UpperC

Span: 3 MHz RBW: 30 kHz VBW: 100 kHz



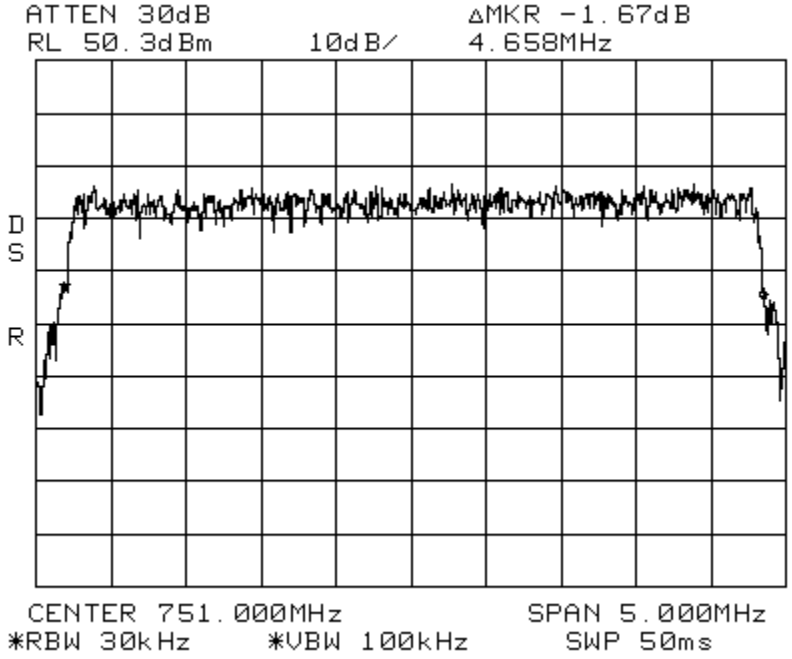
Occupied Bandwidth LTE 5 MHz Channel Bandwidth_Signal_In 700UpperC

Span: 5 MHz RBW: 30 kHz VBW: 100 kHz



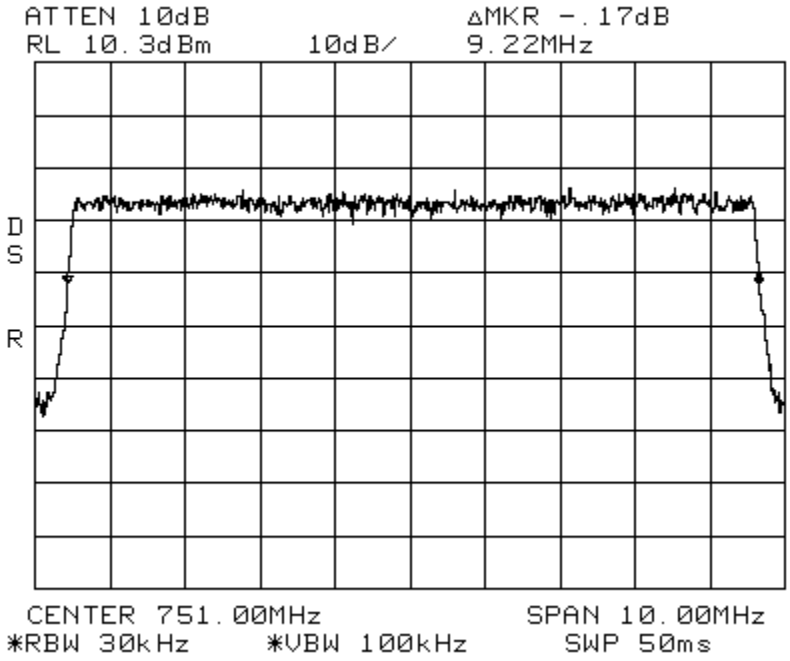
Occupied Bandwidth LTE 5 MHz Channel Bandwidth _Signal_Out 700UpperC

Span: 5 MHz RBW: 30 kHz VBW: 100 kHz



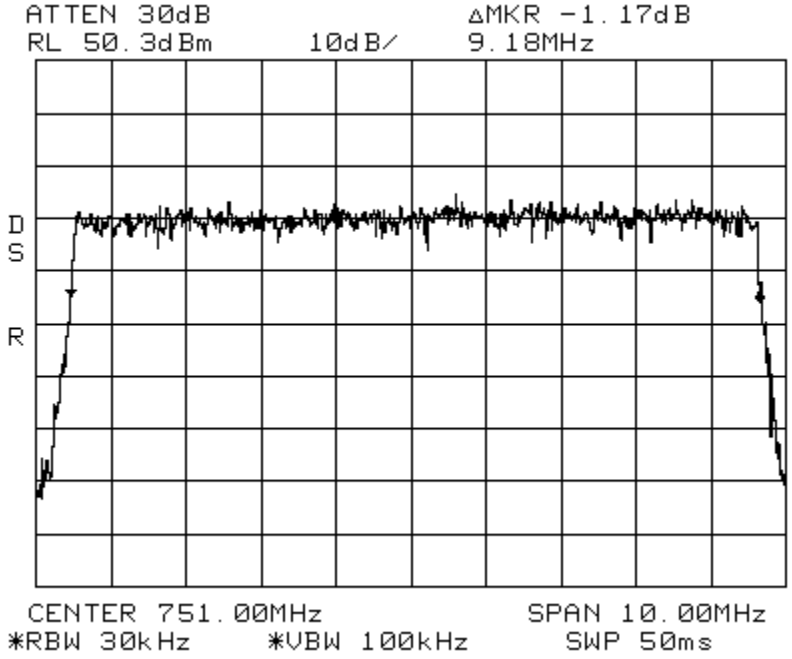
Occupied Bandwidth LTE 10 MHz Channel Bandwidth_Signal_In 700UpperC

Span: 10 MHz RBW: 30 kHz VBW: 100 kHz



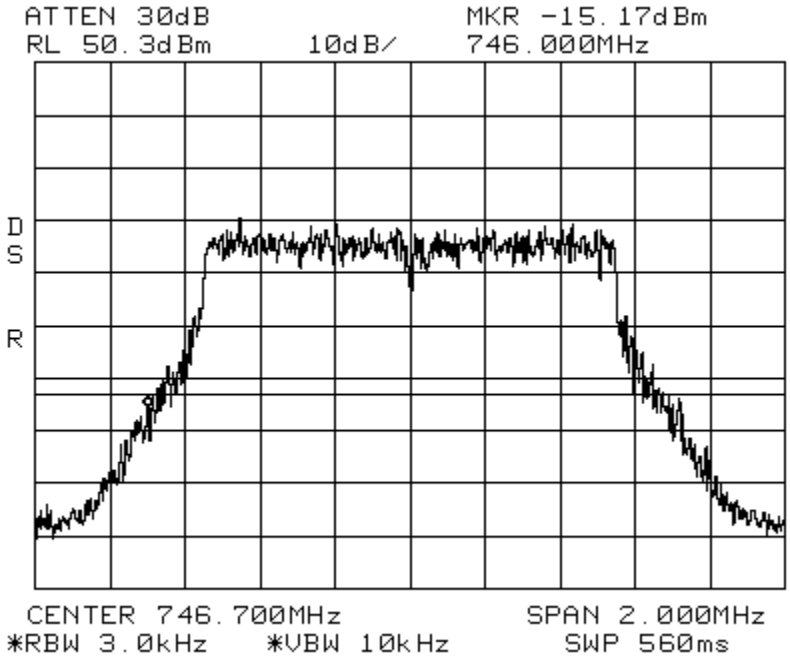
Occupied Bandwidth LTE 10 MHz Channel Bandwidth _Signal_Out 700UpperC

Span: 10 MHz RBW: 30 kHz VBW: 100 kHz



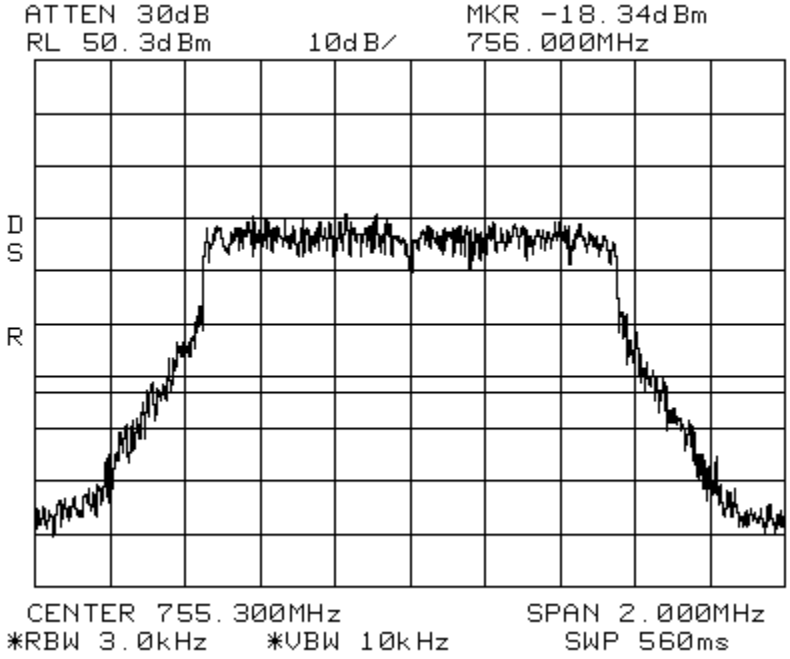
Band_Edge LTE 1.4 MHz Channel Bandwidth 700UpperC

Center: 746.7 MHz Span: 2 MHz RBW: 3 kHz VBW: 10 kHz



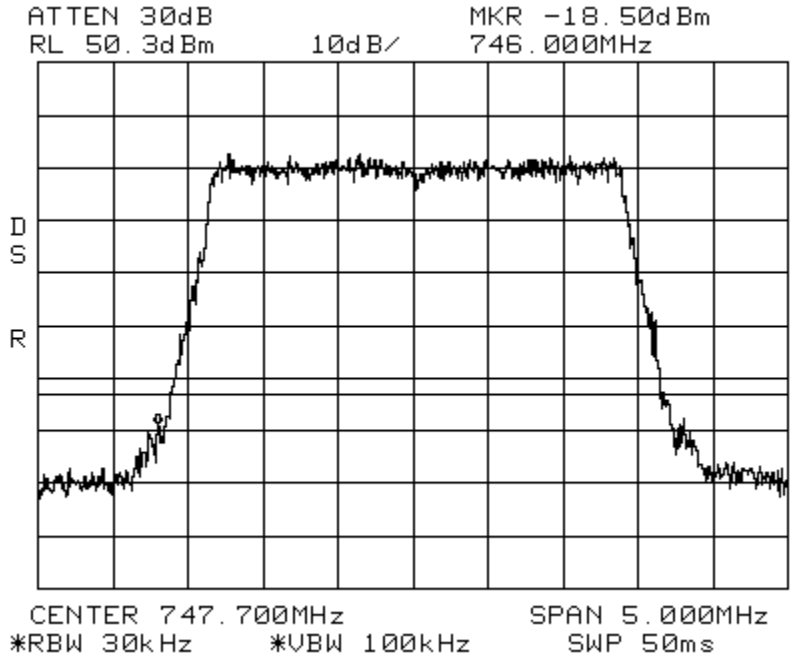
Band_Edge LTE 1.4 MHz Channel Bandwidth 700UpperC

Center: 755.3 MHz Span: 2 MHz RBW: 3 kHz VBW: 10 kHz



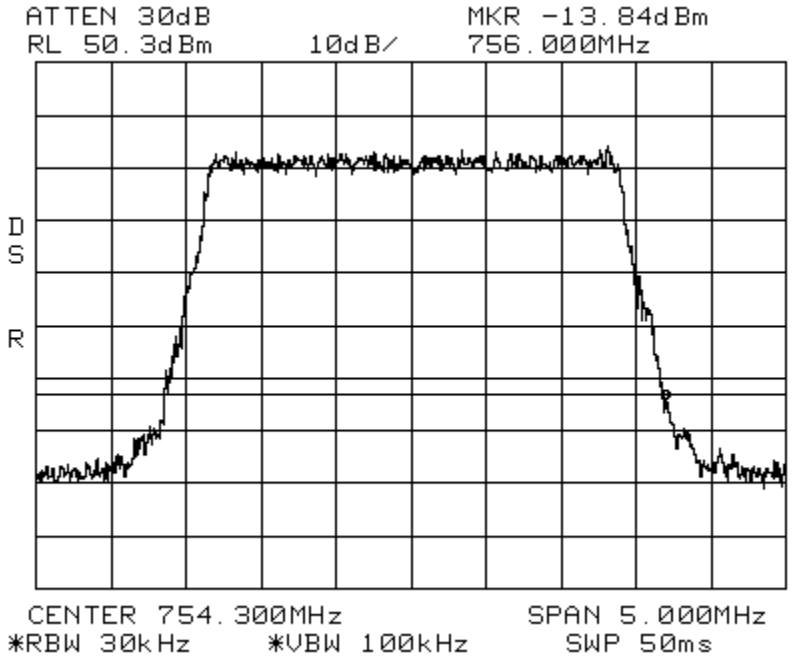
Band_Edge LTE 3 MHz Channel Bandwidth 700UpperC

Center: 747.7 MHz Span: 5 MHz RBW: 30 kHz VBW: 100 kHz



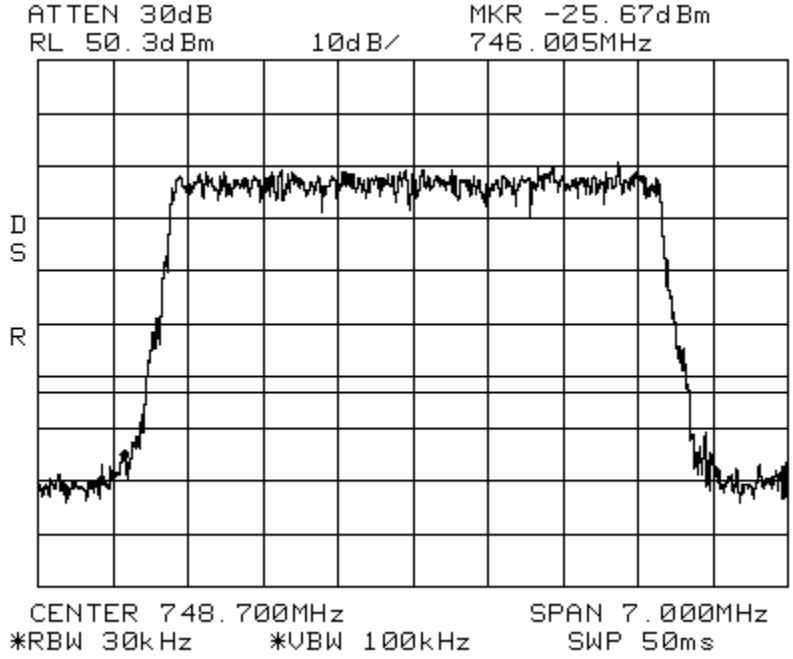
Band_Edge LTE 3MHz Channel Bandwidth 700UpperC

Center: 754.3 MHz Span: 5 MHz RBW: 30 kHz VBW: 100 kHz



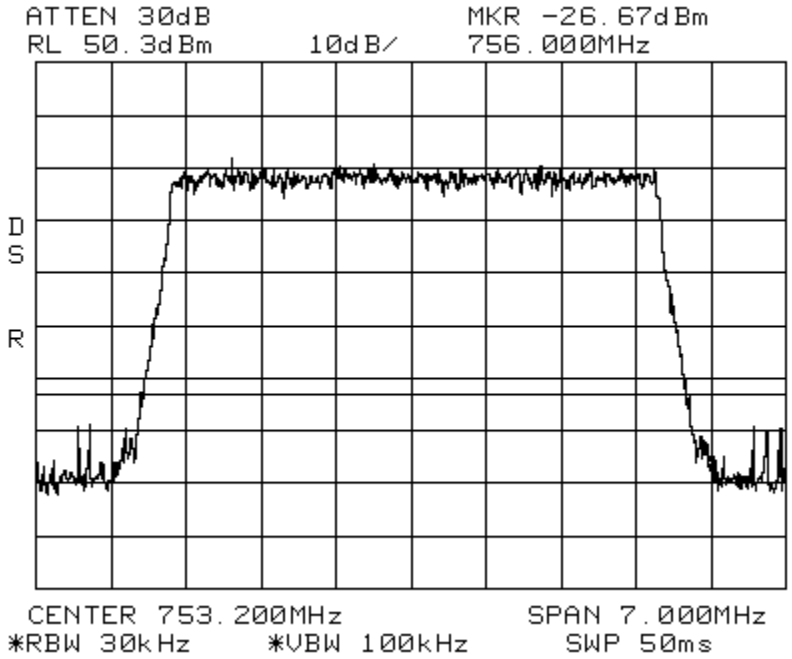
Band_Edge LTE 5 MHz Channel Bandwidth 700UpperC

Center: 748.7 MHz Span: 7 MHz RBW: 30 kHz VBW: 100 kHz

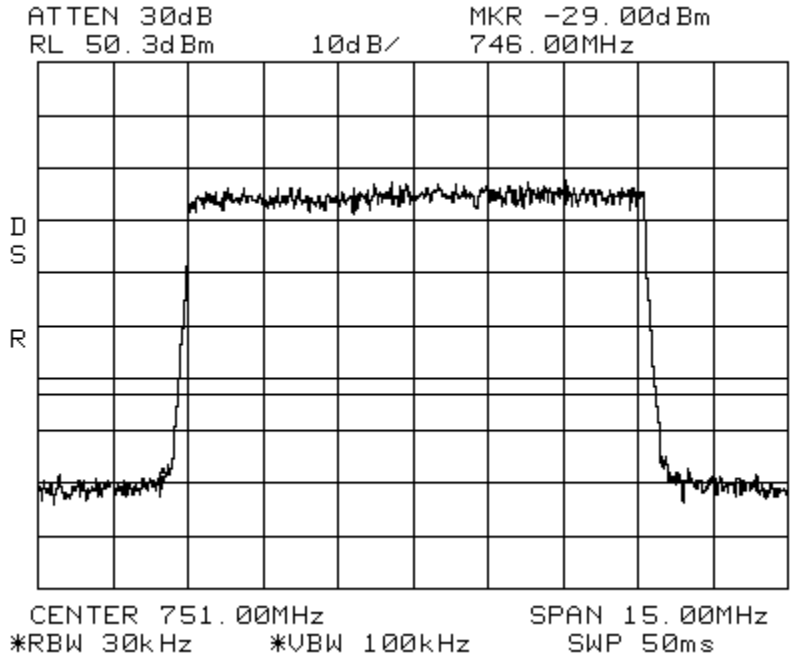


Band_Edge LTE 5 MHz Channel Bandwidth 700UpperC

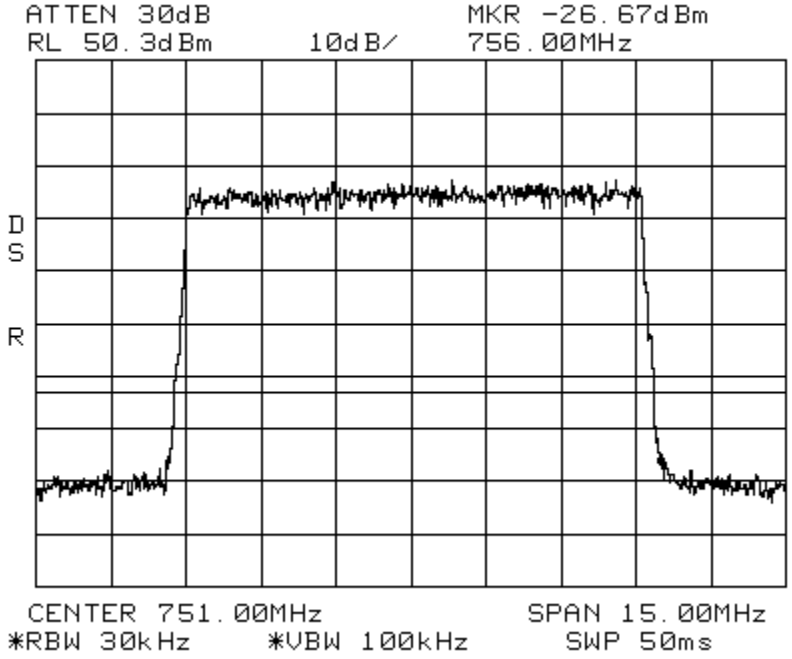
Center: 753.2 MHz Span: 7 MHz RBW: 30 kHz VBW: 100 kHz



Band_Edge LTE 10 MHz Channel Bandwidth 700UpperC
Center: 751 MHz Span: 15 MHz RBW: 30 kHz VBW: 100 kHz



Band_Edge LTE 10 MHz Channel Bandwidth 700UpperC
Center: 751 MHz Span: 15 MHz RBW: 30 kHz VBW: 100 kHz



3.0 TEST EQUIPMENT

Number	Description	Manufacturer	Model	ADC Serial Number	Cal Due	Used
1	Spectrum Analyzer	HP	8563E	MC27690	12-23-10	☒
2	Power Meter	HP	437B	MC27754	5-29-10	☒
3	Multimeter	Fluke	79	MC18758	6-15-11	☒
4	Frequency Counter	HP	5347A	MC27548	5-19-10	☒
5	Temperature Chamber	Thermotron	ESPEC PSL-4G	MC10075	7-22-10	☒
6	Signal Generator	Aeroflex	3413	MC57343	5-21-10	☒
7	Signal Generator	Aeroflex	3414	NA	1-16-11	☒
8	RF Power Sensor	Agilent	8482H	MC27519	7-14-10	☒
9	Variable Auto Transformer	Staco	1520CT	MC44655	CNR	☒
10	Attenuator	Aeroflex	86-30-12	369	CNR	☒

Equipment with a Calibration Not Required (CNR) listing is verified and compensated for with NIST traceable calibrated equipment.