

Prepared (also subject responsible if other) EWUTHFU	No. 11/0360-FCP 101 3765 Uen		
Approved EWU/PR/HD [Keith Goshia]	Checked	Date 2005-12-01	Rev A

Federal Communications Commission
Authorization & Evaluation Division
7435 Oakland Mills Road
Columbia, Maryland 21046
Attention: Equipment Authorization Branch

1 Test Model 5 Conducted Measurements – 1900MHz

Conducted measurements captured using Test Model 5 (16QAM) per 3GPP TS 25.141 for the 1900MHz RU22 1940.

Test Model 1: 16 DPCH:s at 30 ksps (SF=128)

Test Model 5: 6 DPCH:s at 30 ksps and 2 HSDPA DPCH:s at 240 ksps (SF=128)

The significance of this information is to clarify the operation of the Ericsson Radio's operation. The radio supports either QPSK or 16QAM per the 3GPP standard. Radio performance under either mode is covered by the submittal. This additional information is background information to show equivalent performance under either digital modulation format.

2 Occupied Bandwidth/Band Edge Measurements

Equipment test configuration is per FCC Submittal Ref [1].

16QAM (Test Model 5)

Plot 1 1932.5MHz

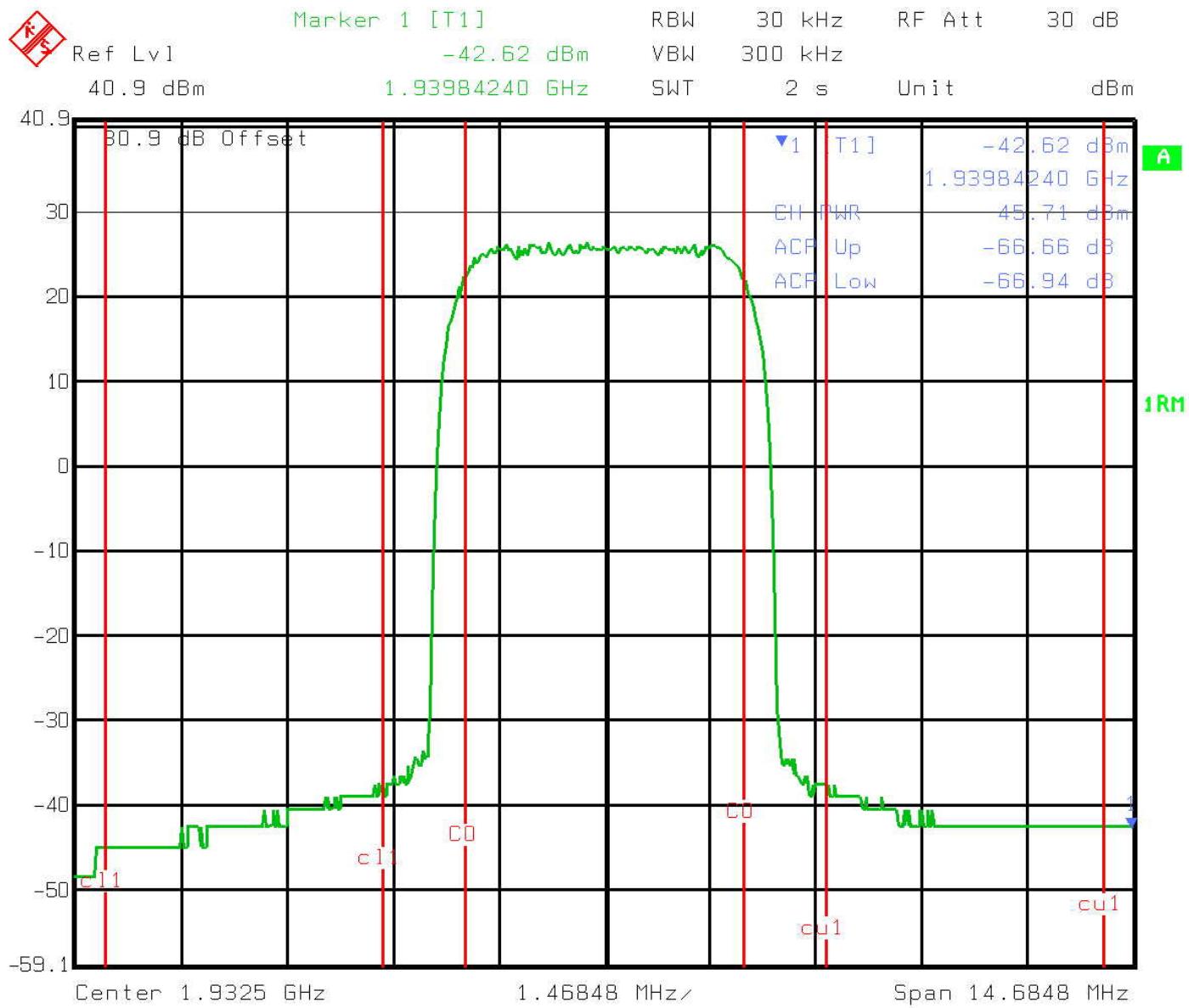
Plot 2 1960MHz

Plot 3 1987.5MHz

16QAM –vs- QPSK: This plot is an overlay of the 16QAM data on top of the QPSK data.

Plot 4 1987.5MHz

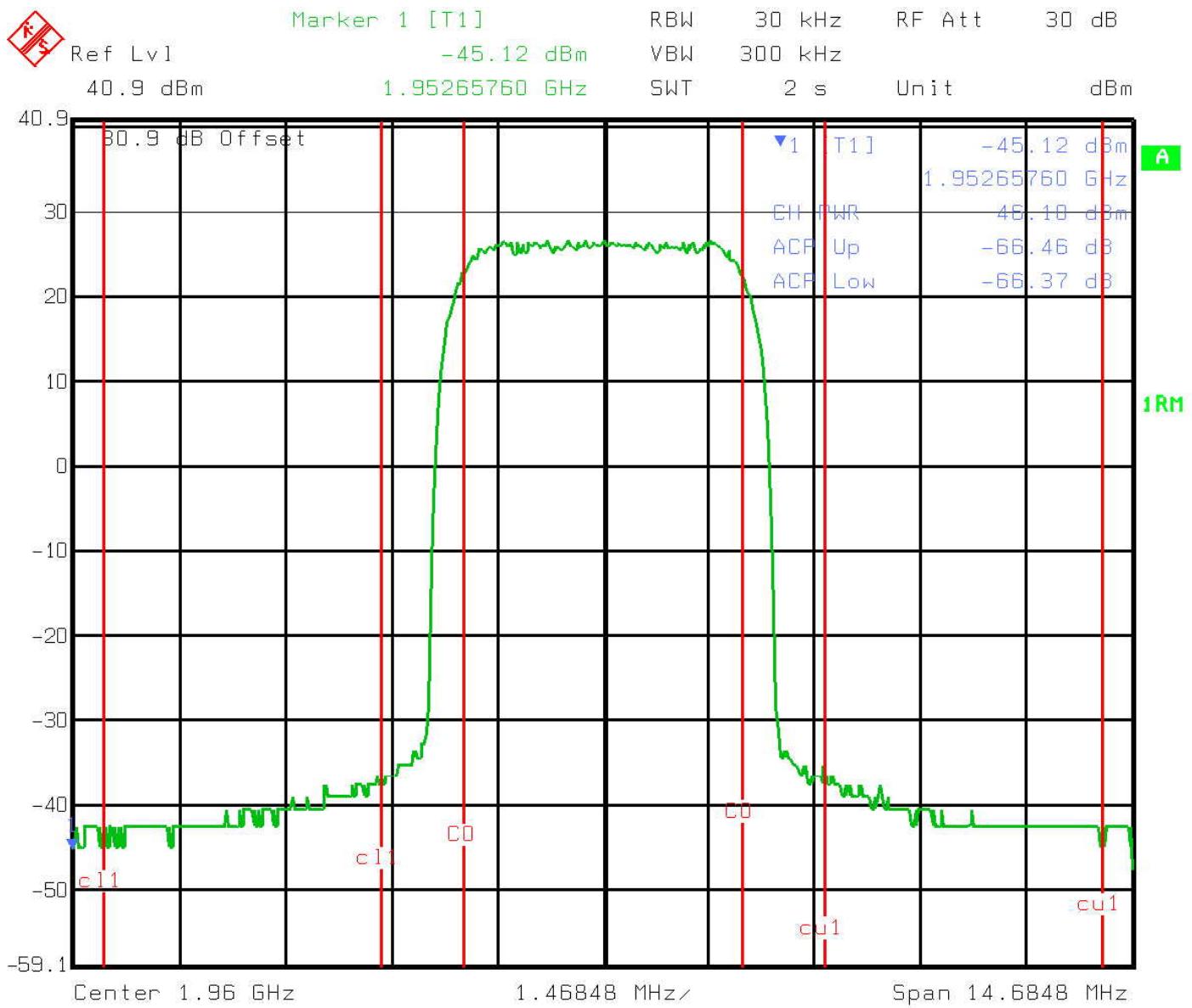
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Plot 1 Measurement with 16QAM at 1932.5MHz

Date: 30.NOV.2005 12:01:08

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Plot 2 Measurement with 16QAM at 1960MHz



Date: 30.NOV.2005 11:49:25

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2005-12-01

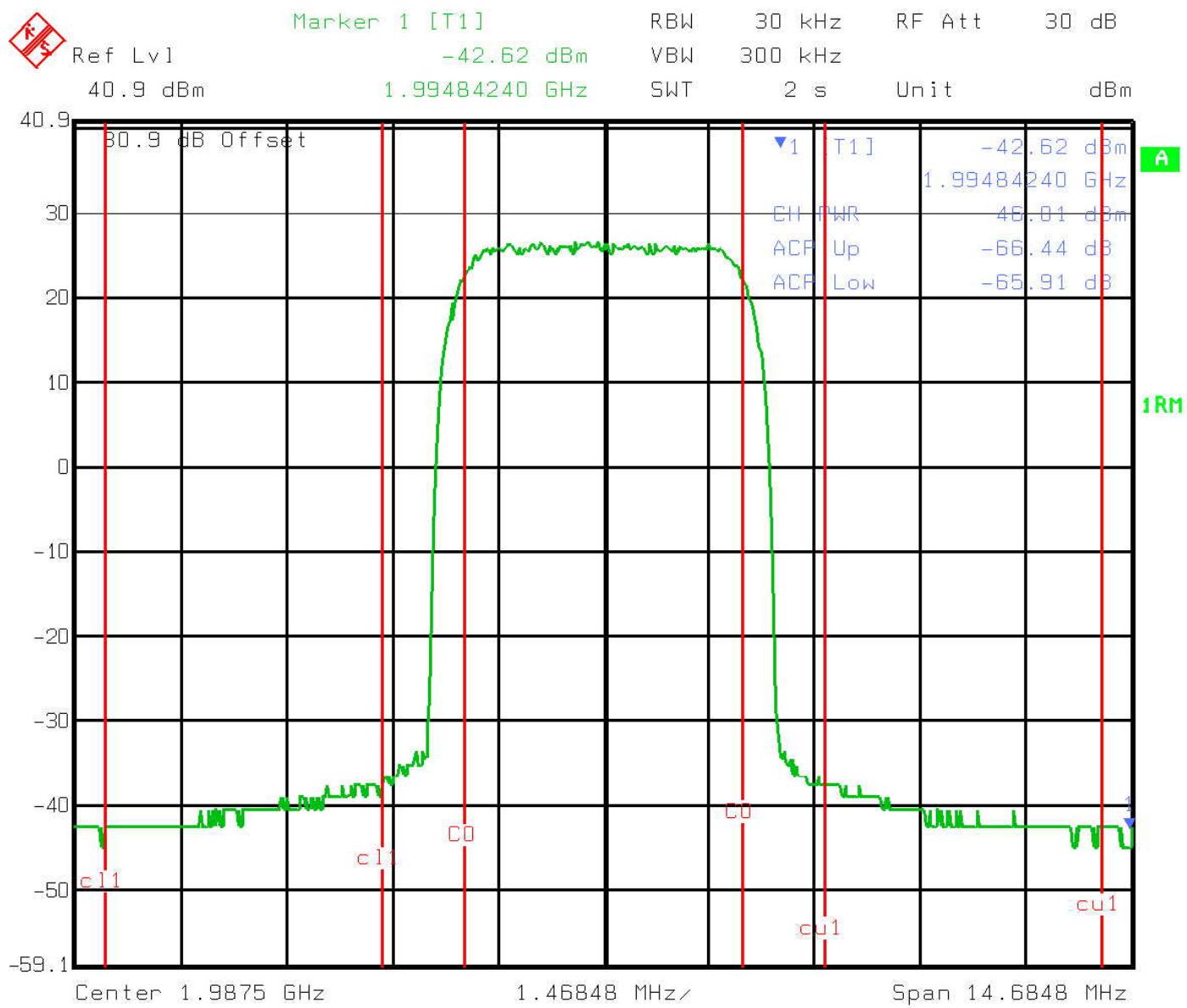
Rev

A

Reference

TA8AKRC11819-1

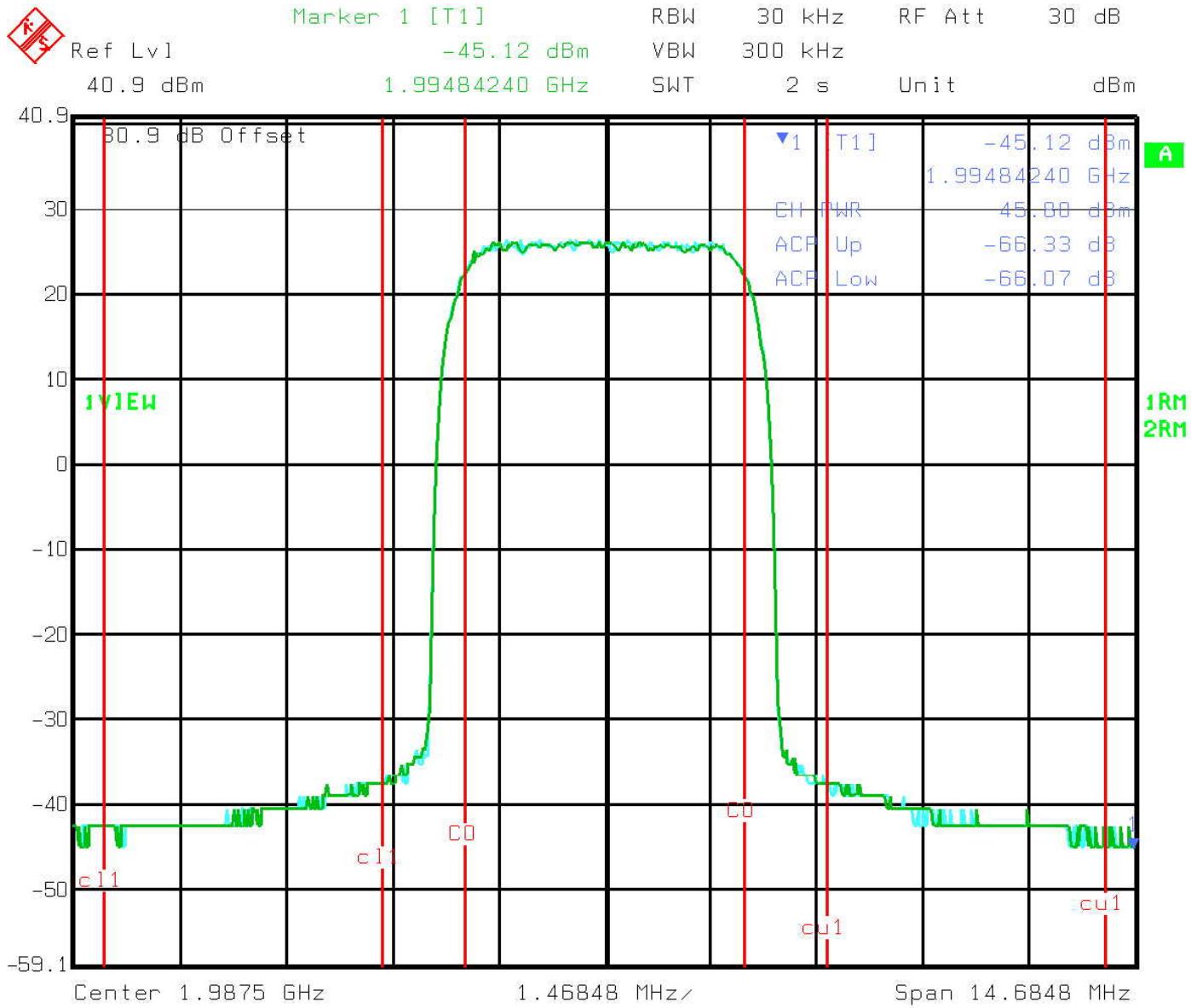
Plot 3 Measurement with 16QAM at 1987.5MHz



Date: 30.NOV.2005 11:27:26

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Plot 4 Overlay of 16QAM (Blue) and QPSK (Green)



Date: 29.NOV.2005 17:48:22

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3 Conducted Spurious Emissions

Equipment test configuration is per FCC Submittal Ref [1].

16QAM (Test Model 5)

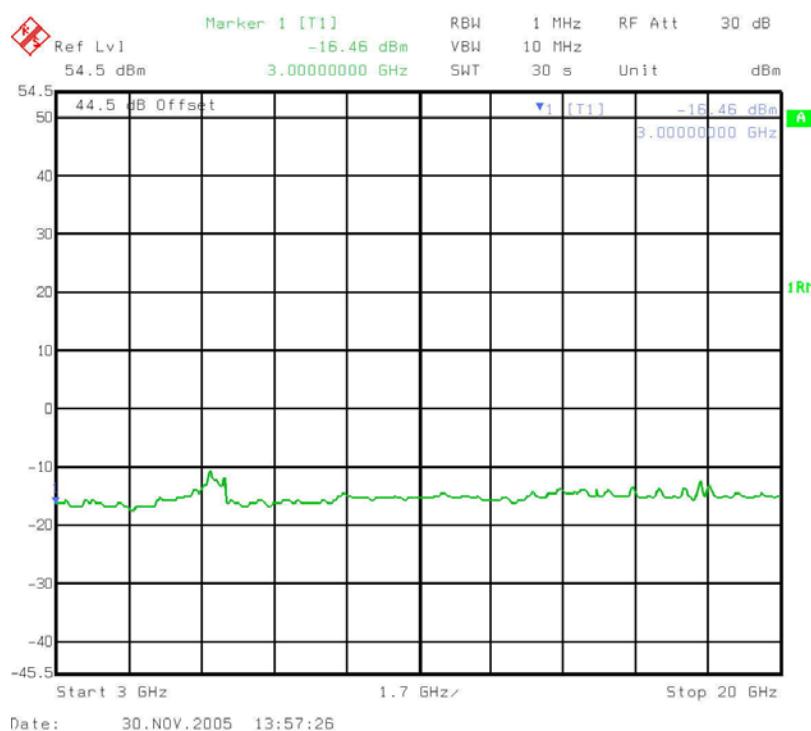
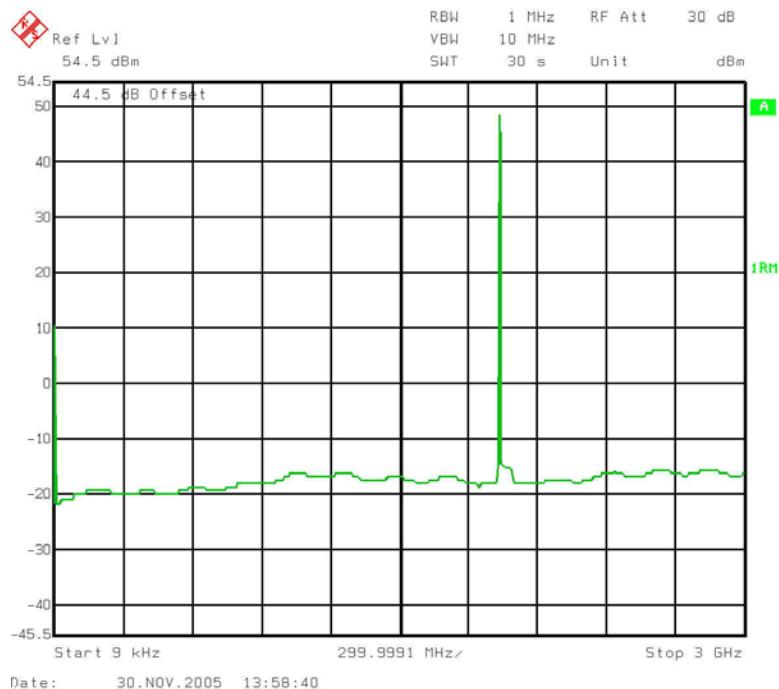
Plot 5 1932.5MHz z

Plot 6 1987.5MHz

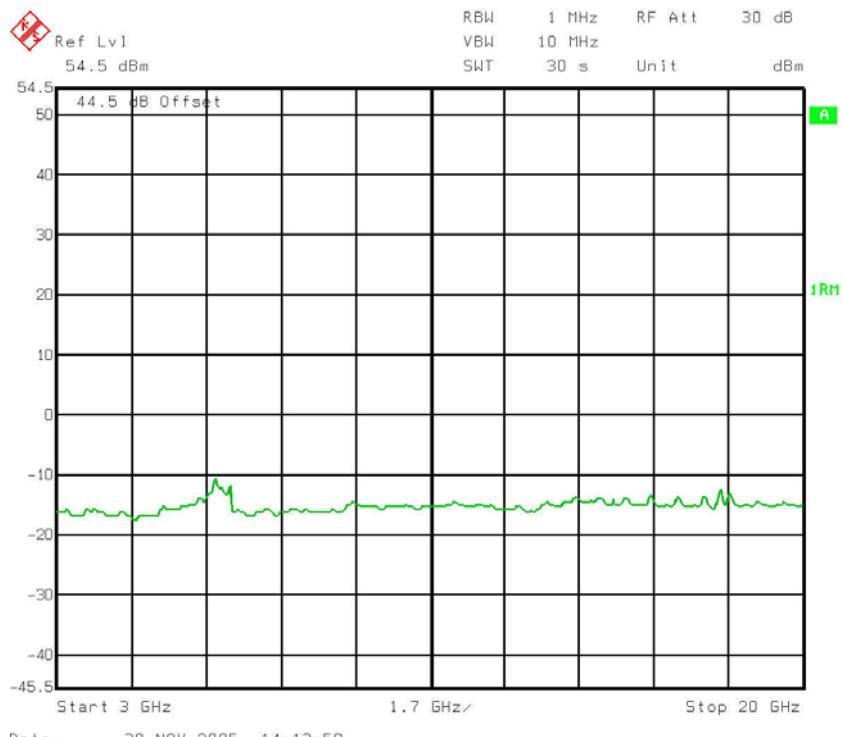
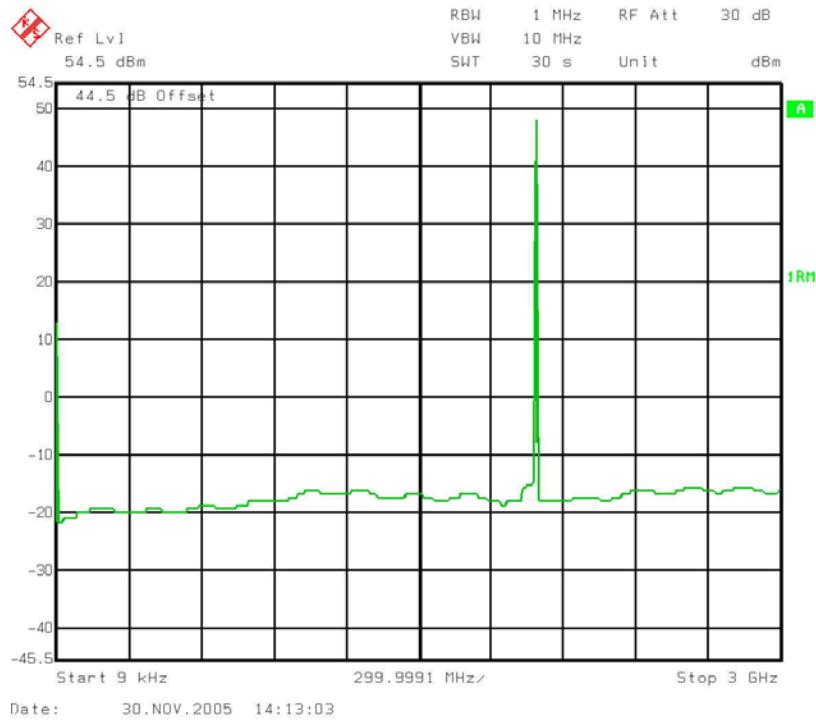
16QAM –vs- QPSK: This plot is an overlay of the 16QAM data on top of the QPSK data.

Plot 7 1987.5MHz

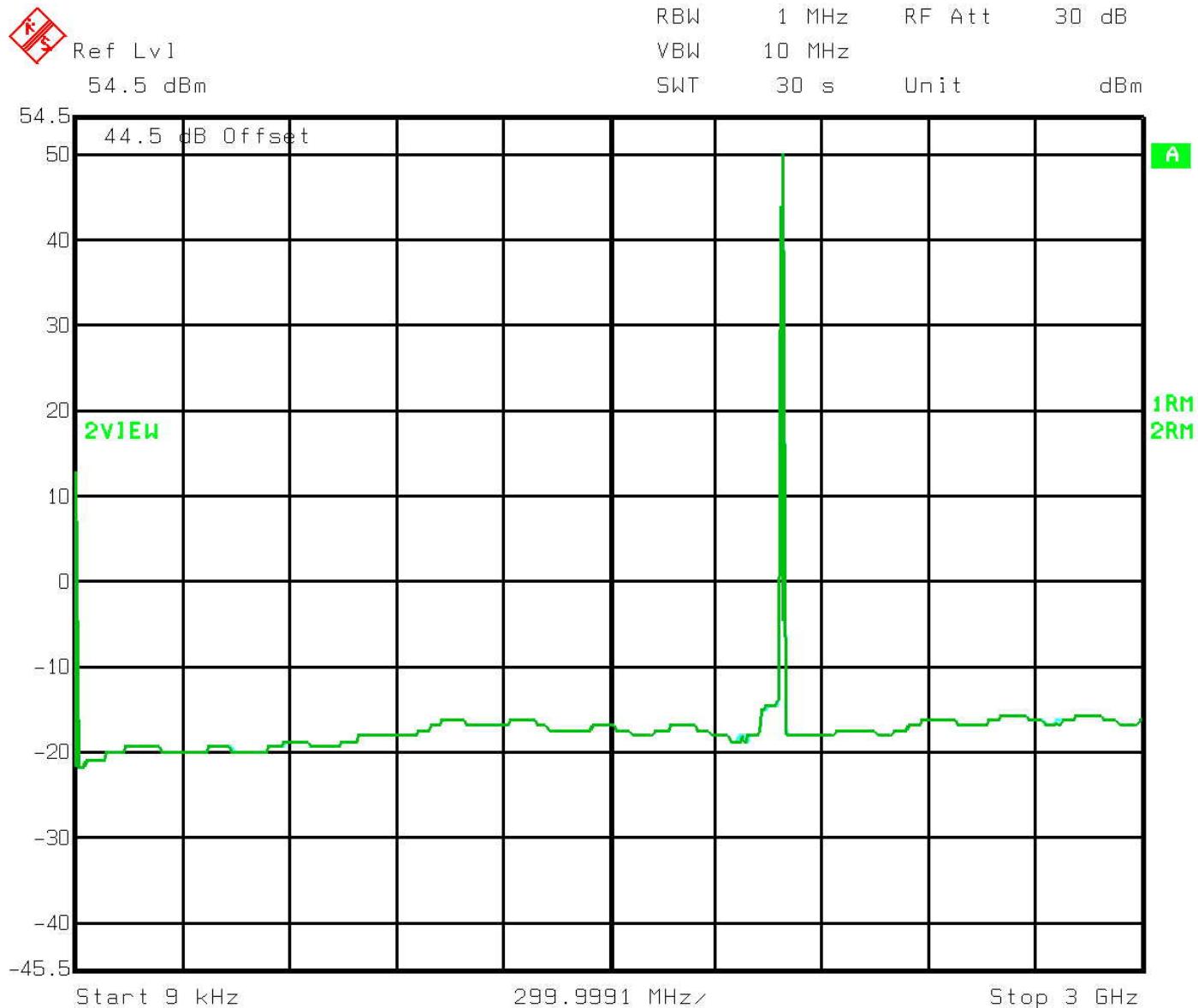
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Plot 5 Measurement with 16QAM at 1932.5MHz

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Plot 6 Measurement with 16QAM at 1987.5MHz

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Plot 7 Overlay of 16QAM (Blue) and QPSK (Green)

Date: 30.NOV.2005 14:23:29

Reference

[1] 3/0360-FCP 101 3765 FCC 24 Exhibit 9 - TA8AKRC11819-1 Test Report RU22 1940