



Nemko Test Report: 60865RUS3

Applicant: Andrew Corporation
620 N. Greenfield Parkway
Garner, NC 27529
USA

**Equipment Under Test:
(E.U.T.)** TFAH-US7B

FCC Identifier: BCR-TFAHR4E

In Accordance With: **CFR 47 Part 90, Subpart I**
Private Land Mobile Repeater

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, TX 75057-3136

TESTED BY:

A handwritten signature in black ink, appearing to read 'David Light'.

David Light, Senior Wireless Engineer

DATE: 27 September 2010

APPROVED BY:

A handwritten signature in black ink, appearing to read 'Tom Tidwell'.

Tom Tidwell, Telecom Direct

DATE: 11 November 2010

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Section 1. Summary of Test Results

Manufacturer: Andrew Corporation

Model No.: TFAH-US7B

Serial No.: 3

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with CFR Part 90, Subpart I.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.
See " Summary of Test Data".



NVLAP Lab Code 100426-0

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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	90.635	1 kW ERP	Complies
Occupied Bandwidth	90.210	Input/Output	Complies
Spurious Emissions at Antenna Terminals	90.210	Plots	Complies
Field Strength of Spurious Emissions	90.210	-20 dBm 50 + 10logP(W)	Complies
Frequency Stability	90.213	1 ppm	NA

Footnotes For N/A's:

- (1) Since the E.U.T. does not contain modulation circuitry modulation testing was not performed.
- (2) Since the E.U.T. is not a keyed carrier system, Transient Frequency Behavior was not performed.

NOTE: Some of the data in this report is more than one year old. It has been confirmed that the device has not been changed in any way that would affect the rf performance since the original testing was done and the test results continue to be representative of the device as manufactured.

Section 2. General Equipment Specification**Transmitter**

Supply Voltage Input: 120 Vac

Frequency Range: Downlink: 769 – 775 MHz
851 to 869 MHz
935 to 940 MHz

Uplink: NA

Tunable Bands:**Type(s) of Modulation:**

F9W (CQPSK)	F1D (C4FM)	D7W (iDEN)	GXW ()
☒	☒	☒	☒

LMR 700 (F9W, GXW), LMR800/900 (F9W, F1D, D7W)

Output Impedance: 50 ohms

RF Power Output (rated): 31.0 dBm (1.25 W)

Operator Selection of Operating Frequency: Full band coverage

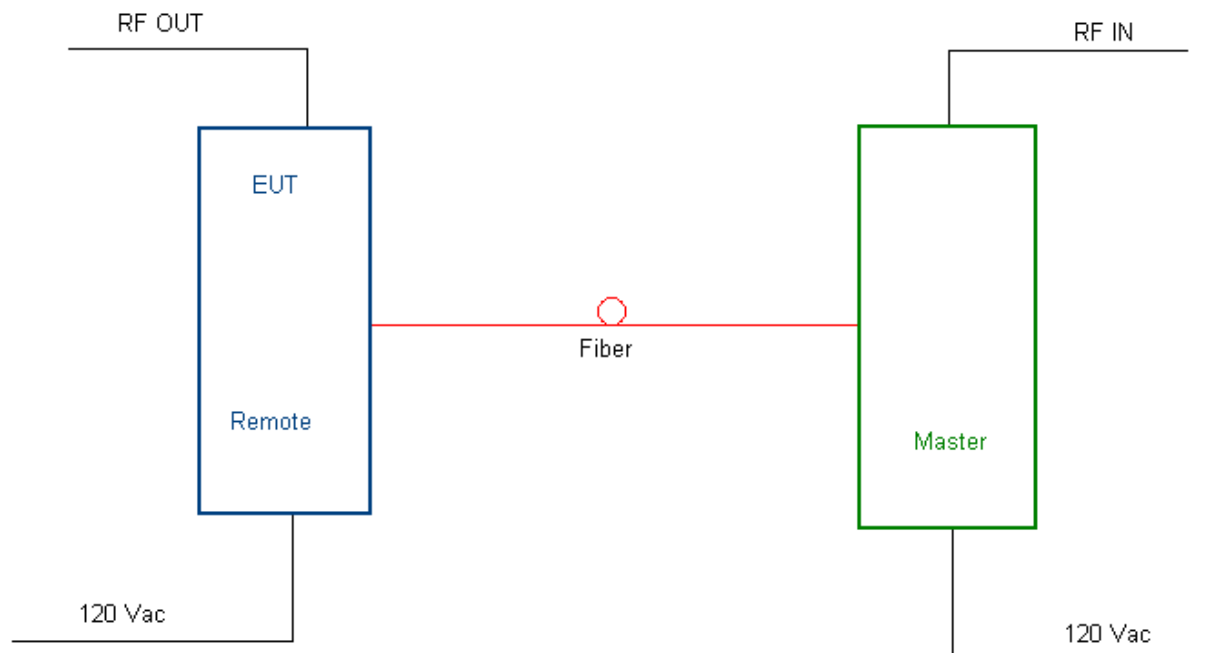
Power Output Adjustment Capability: Software

Frequency Translation:	F1-F1	F1-F2	N/A
	☒	☐	☐

Band Selection:	Software	Duplexer Change	Fullband Coverage
	☐	☐	☒

Description of EUT

The TFAH-US7B is a seven band high power remote unit designed to distribute LMR700, LMR800, Cell850, LMR900, AWS, Extended PCS1900, and WiMax band signals along the same fiber. The device is classified as a signal booster with non-radiating host unit according to the EAB Reminder document on Amplifiers, Boosters, and Repeater Devices.

System Diagram

Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.985
TESTED BY: David Light	DATE(s): 26 August 2009 and 23 September 2010

Test Results: Complies.

Measurement Data:

Band	Modulation	Output per Channel (dBm)	Composite Power (dBm)	Composite Power (W)
700 LMR	APCO CQPSK	28.0	31.0	1.25
700 LMR	LTE	28.0	31.0	1.25
800 LMR	C4FM	28.0	31.0	1.25
800 LMR	iDEN	28.0	31.0	1.25
900 LMR	C4FM	28.0	31.0	1.25
900 LMR	CQPSK	28.0	31.0	1.25
900 LMR	iDEN	28.0	31.0	1.25

Equipment Used: 1036-1469-1082-1472

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.989
TESTED BY: David Light	DATE: 26 August 2009 and 23 September 2010

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1469-1082-1472

Measurement Uncertainty: 1X10⁻⁷ ppm

Temperature: 22 °C

Relative Humidity: 35 %

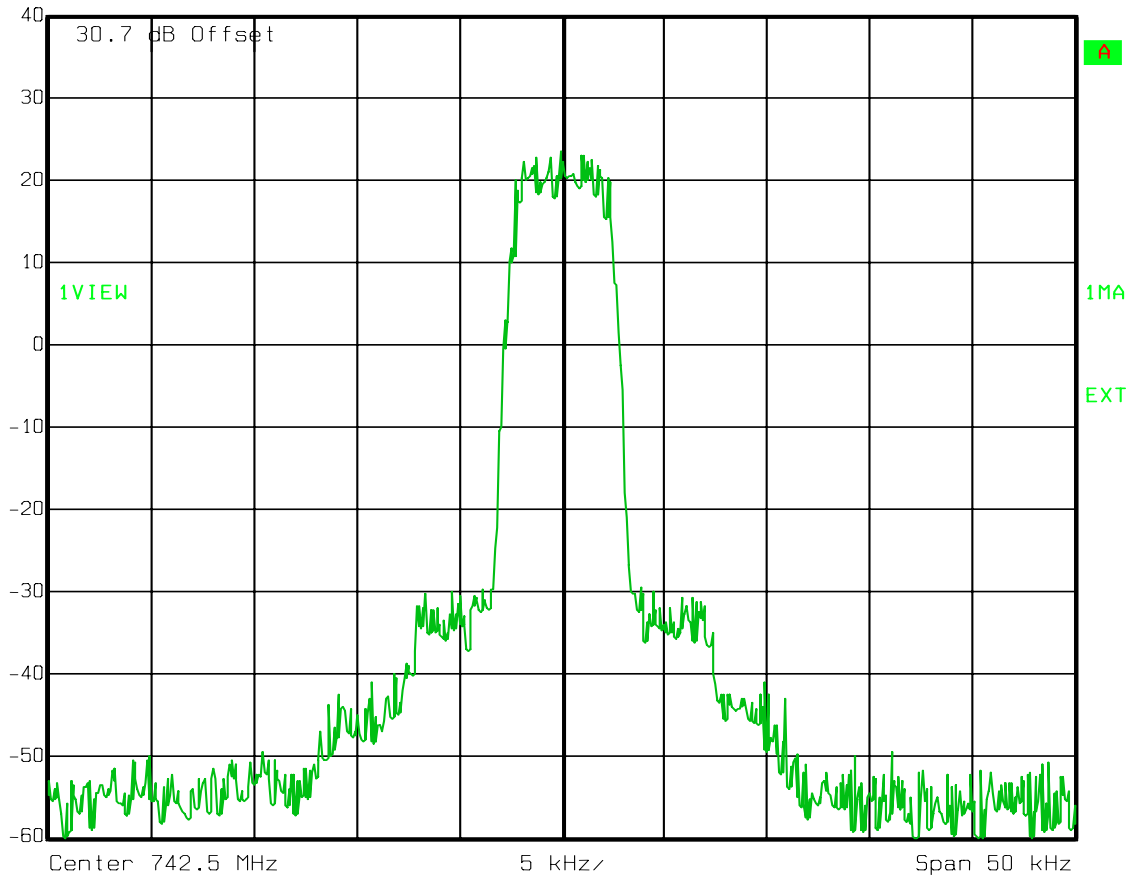
Test Data – Occupied Bandwidth

700 LMR
APCO CQPSK
Output



Ref Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	2.8 s	Unit	dBm



Date: 27.SEP.2010 15:09:45

Test Data – Occupied Bandwidth

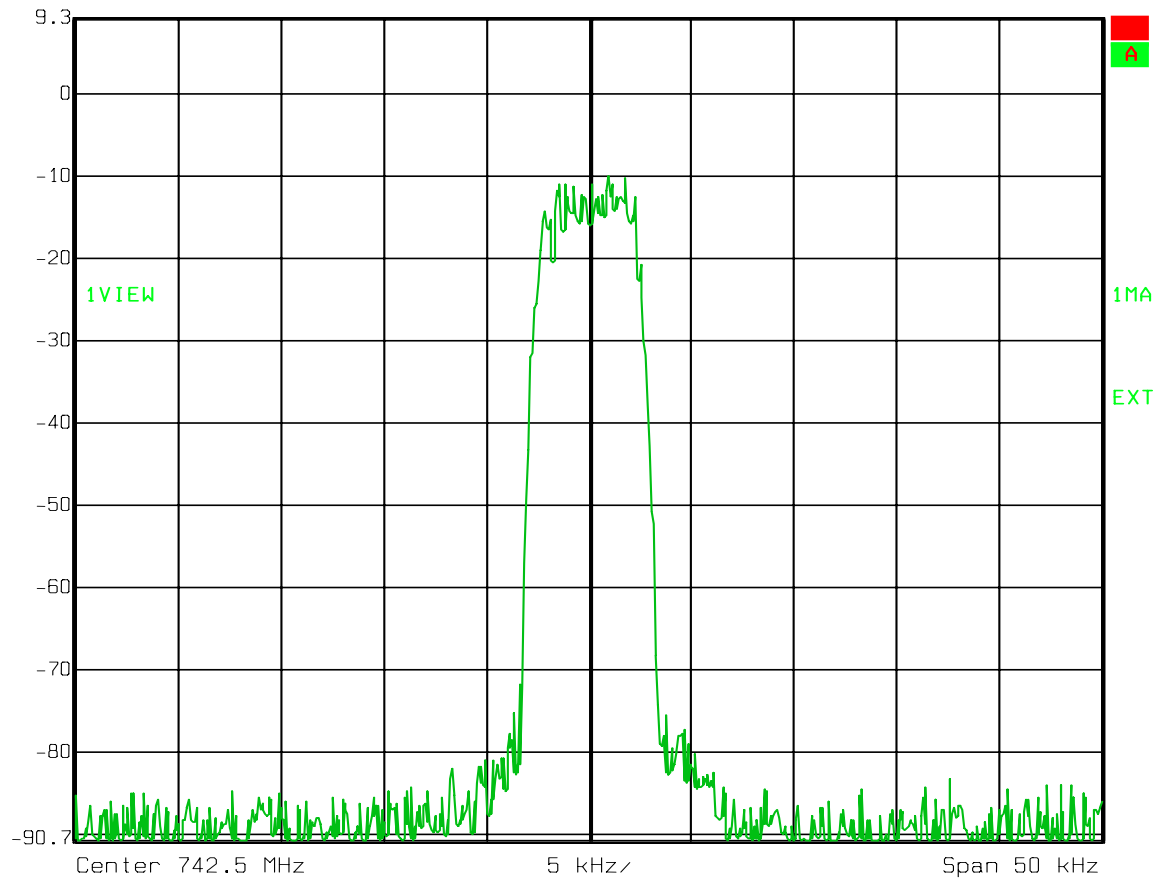
APCO CQPSK

Input



Ref Lvl
9.3 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	2.8 s	Unit	dBm



Date: 27.SEP.2010 15:10:40

Test Data – Occupied Bandwidth

LTE

Output



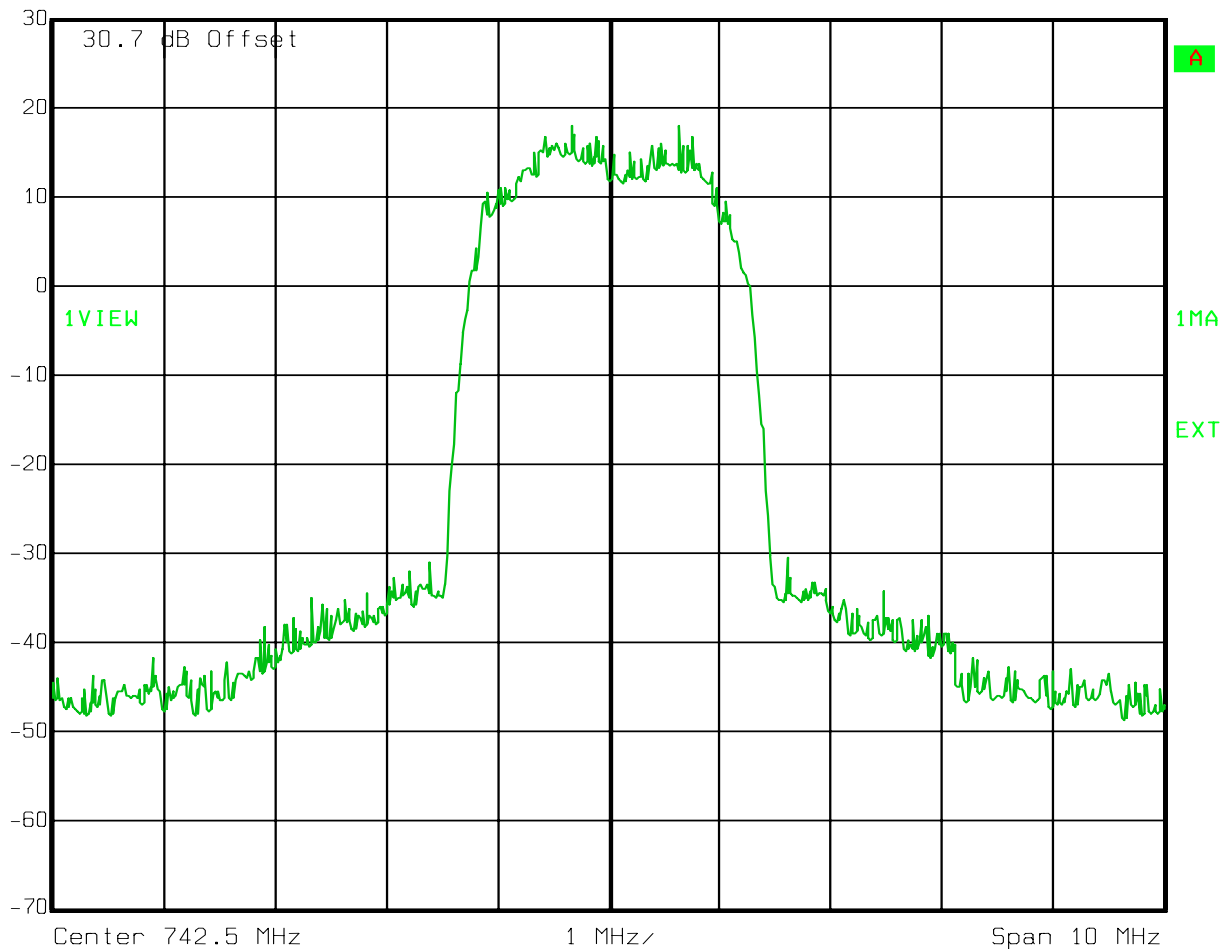
Ref Lvl

30 dBm

RBW 30 kHz RF Att 20 dB

VBW 30 kHz

SWT 28 ms Unit dBm



Date: 13.OCT.2010 13:25:39

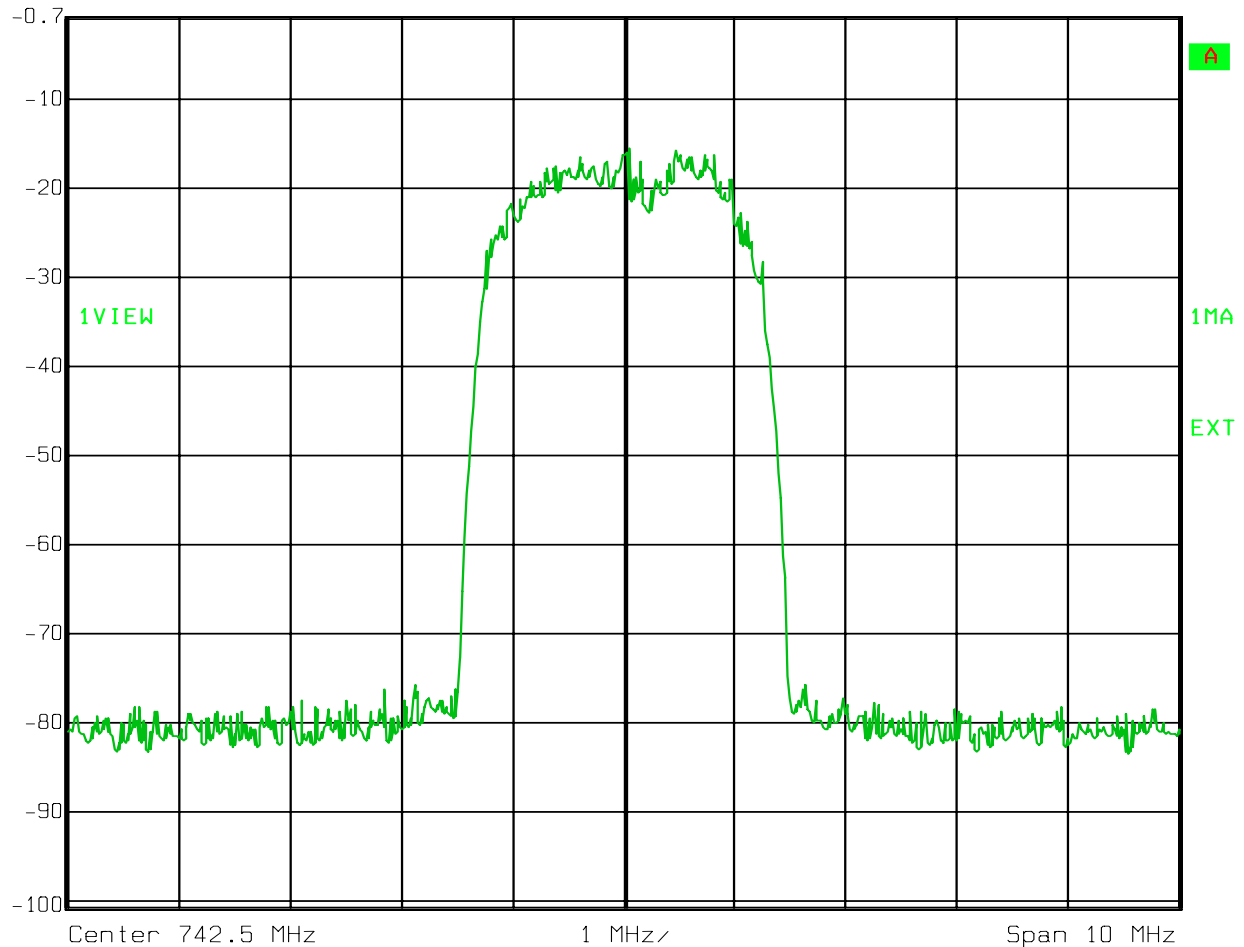
Test Data – Occupied Bandwidth

LTE
Input



Ref Lvl
-0.7 dBm

RBW	30 kHz	RF Att	20 dB
VBW	30 kHz		
SWT	28 ms	Unit	dBm



Date: 13.OCT.2010 13:26:34

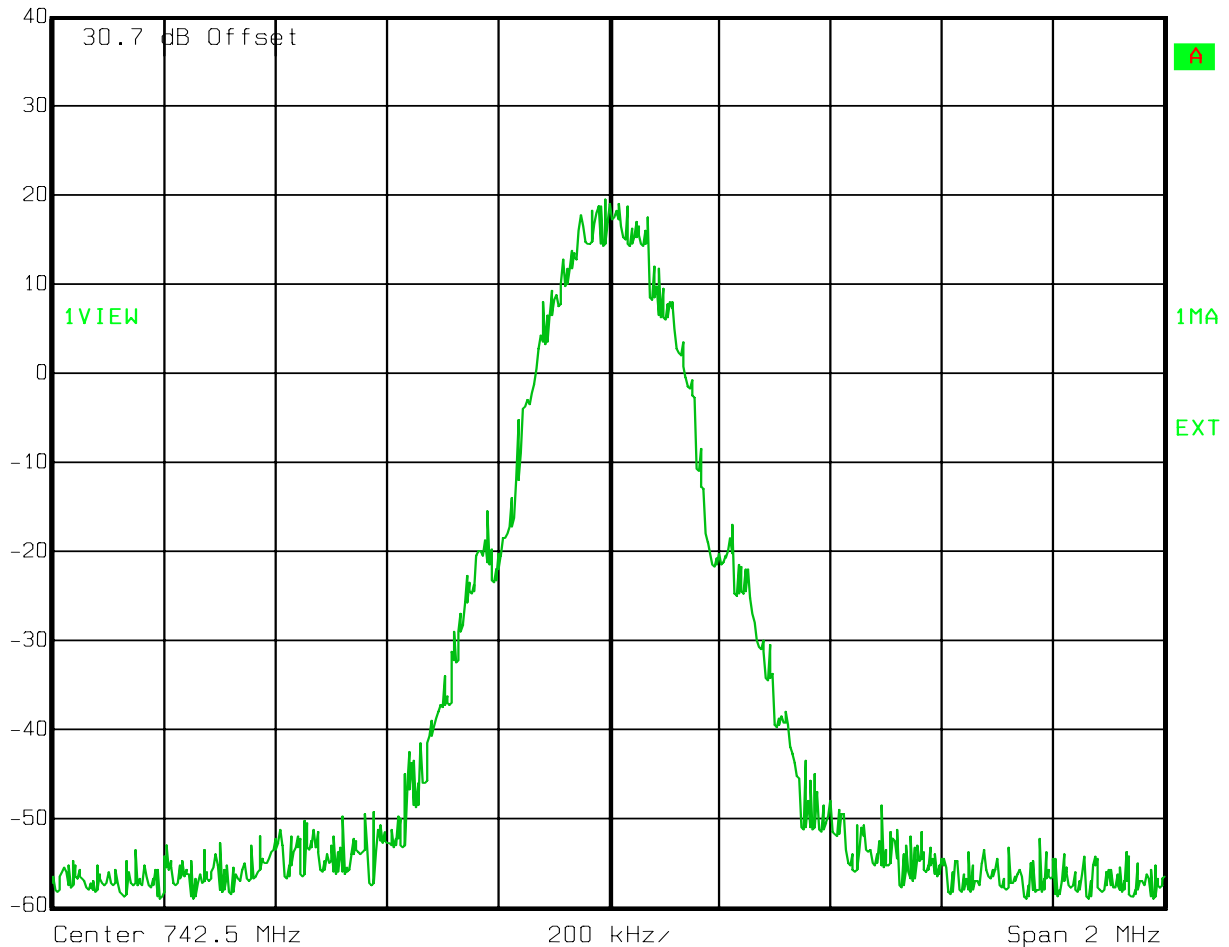
Test Data – Occupied Bandwidth

GSM
Output



Ref Lvl
40 dBm

RBW	3 kHz	RF Att	20 dB
VBW	3 kHz		
SWT	560 ms	Unit	dBm



Date: 13.OCT.2010 13:44:44

Test Data – Occupied Bandwidth

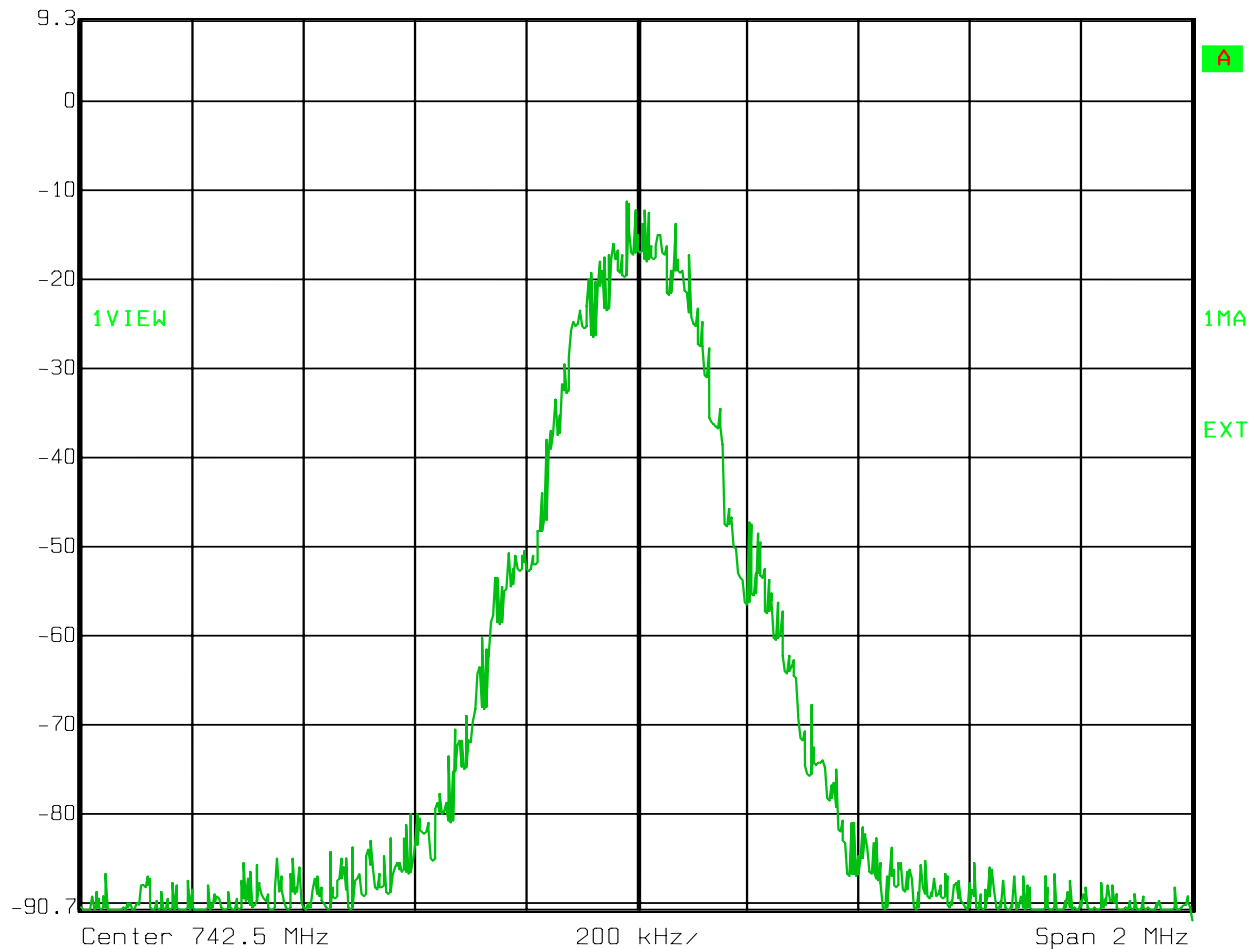
GSM

Input



Ref Lvl
9.3 dBm

RBW	3 kHz	RF Att	20 dB
VBW	3 kHz		
SWT	560 ms	Unit	dBm



Date: 13.OCT.2010 13:45:40

EQUIPMENT: TFAH-US7B

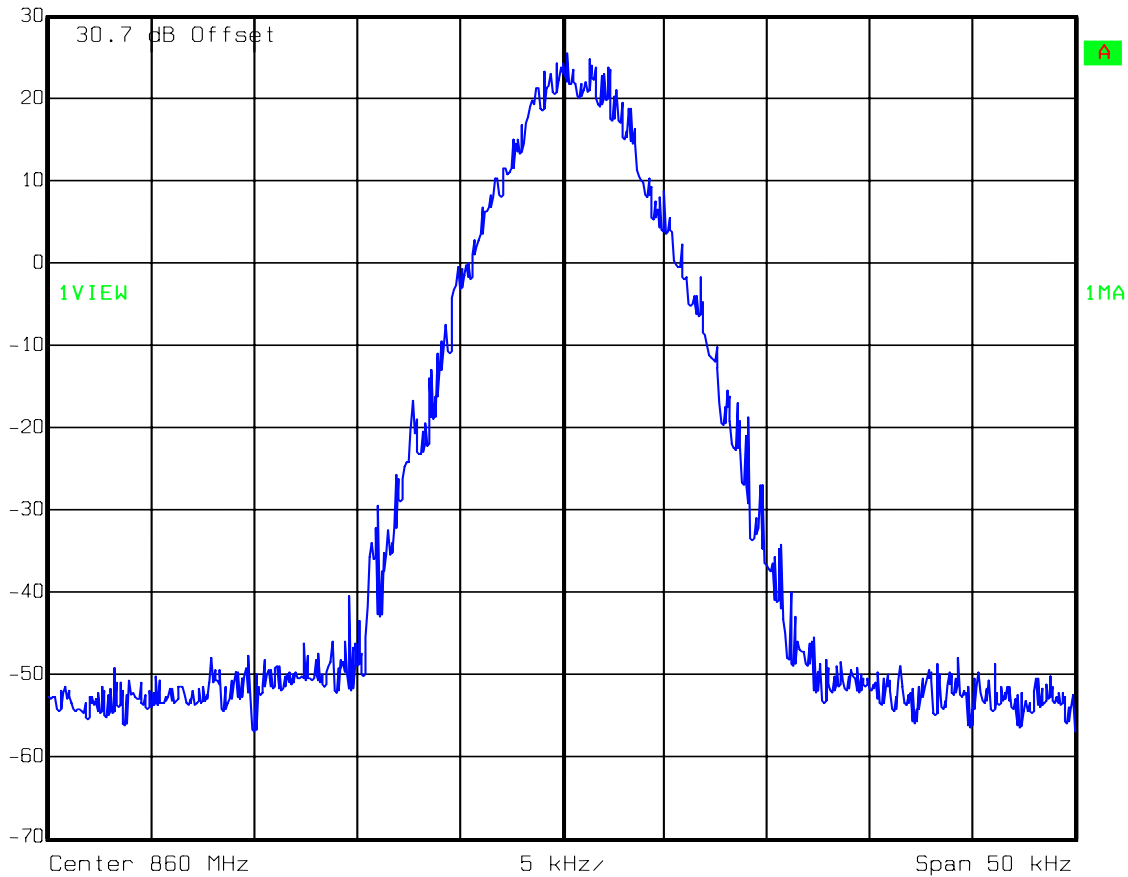
PROJECT NO.: 60865RUS3

800 LMR
Output
C4FM



Ref Lvl
30 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz		
SWT	2.8 s	Unit	dBm



Date: 26.AUG.2009 14:15:03

Test Data – Occupied Bandwidth

800 LMR

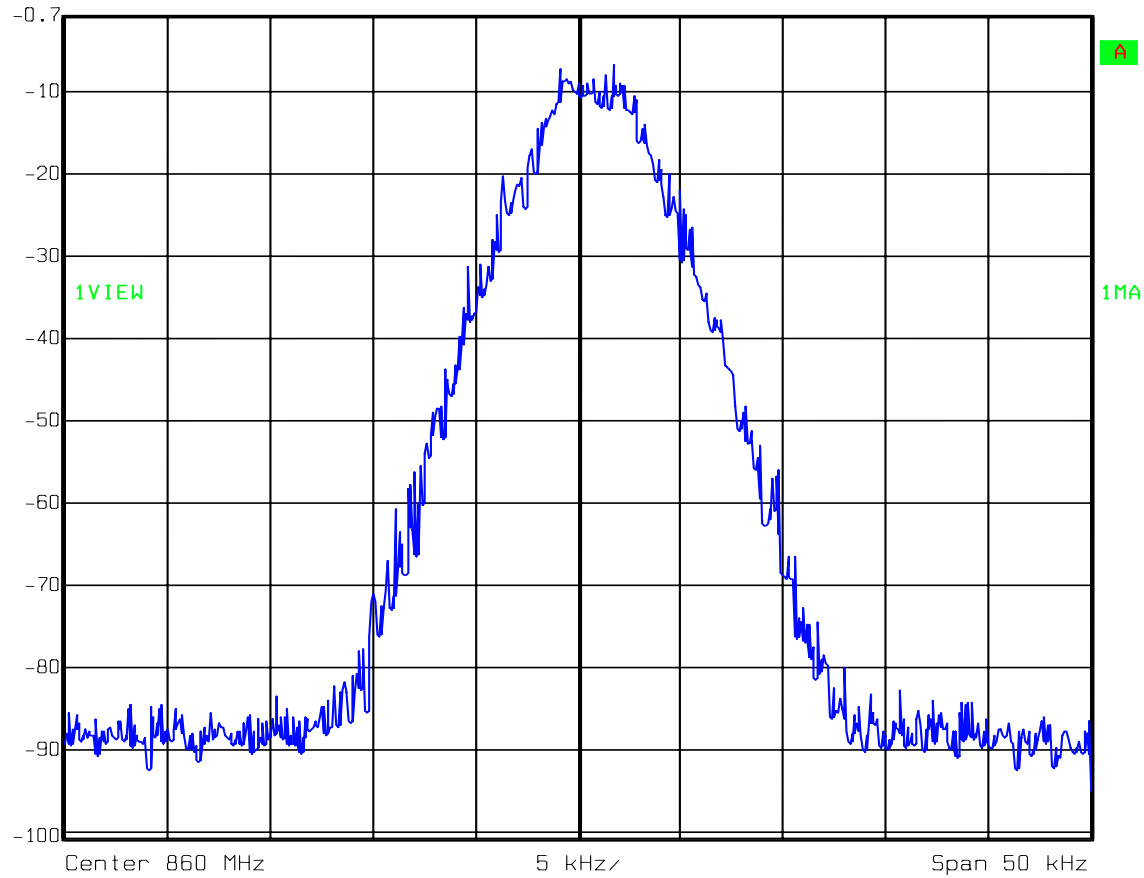
Input

C4FM



Ref Lvl
-0.7 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz		
SWT	2.8 s	Unit	dBm



Date: 26.AUG.2009 14:16:08

Test Data – Occupied Bandwidth

800 LMR

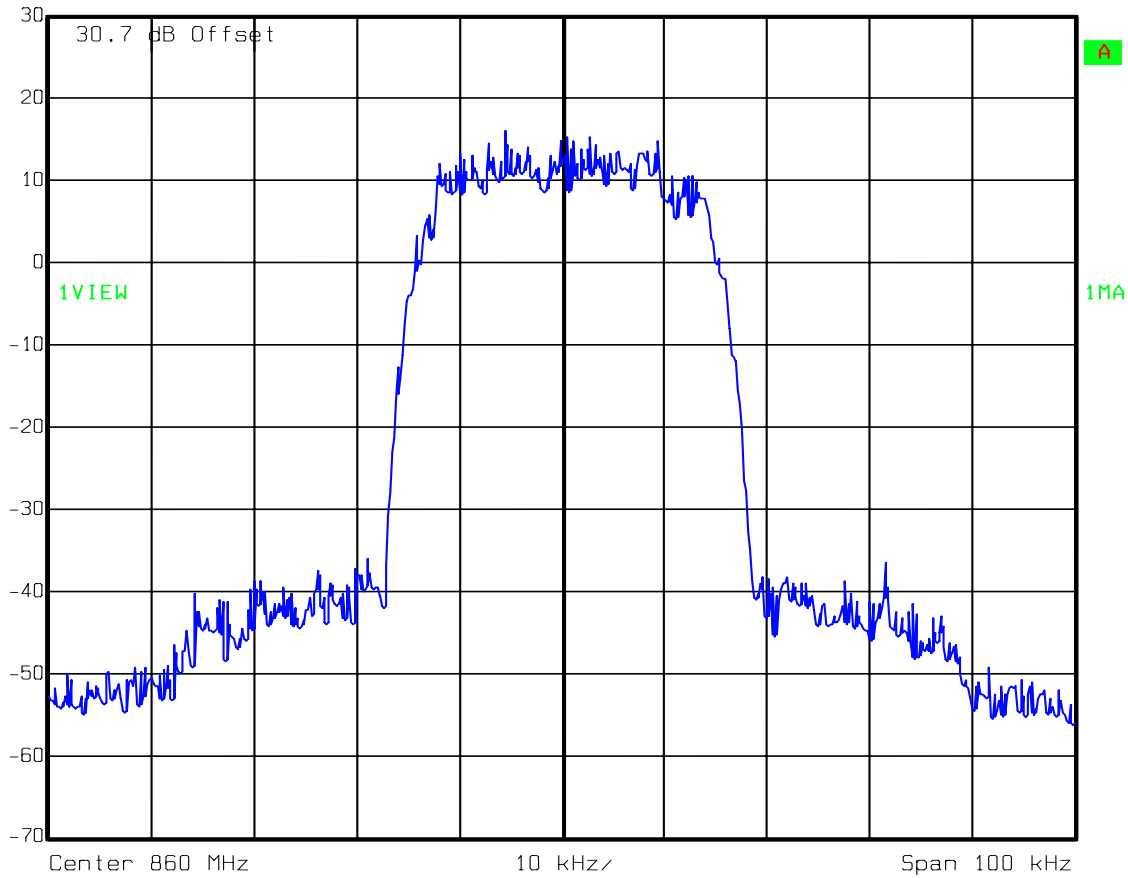
Output

iDEN



Ref Lvl
30 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz		
SWT	5.6 s	Unit	dBm



Date: 26.AUG.2009 14:25:21

Test Data – Occupied Bandwidth

800 LMR

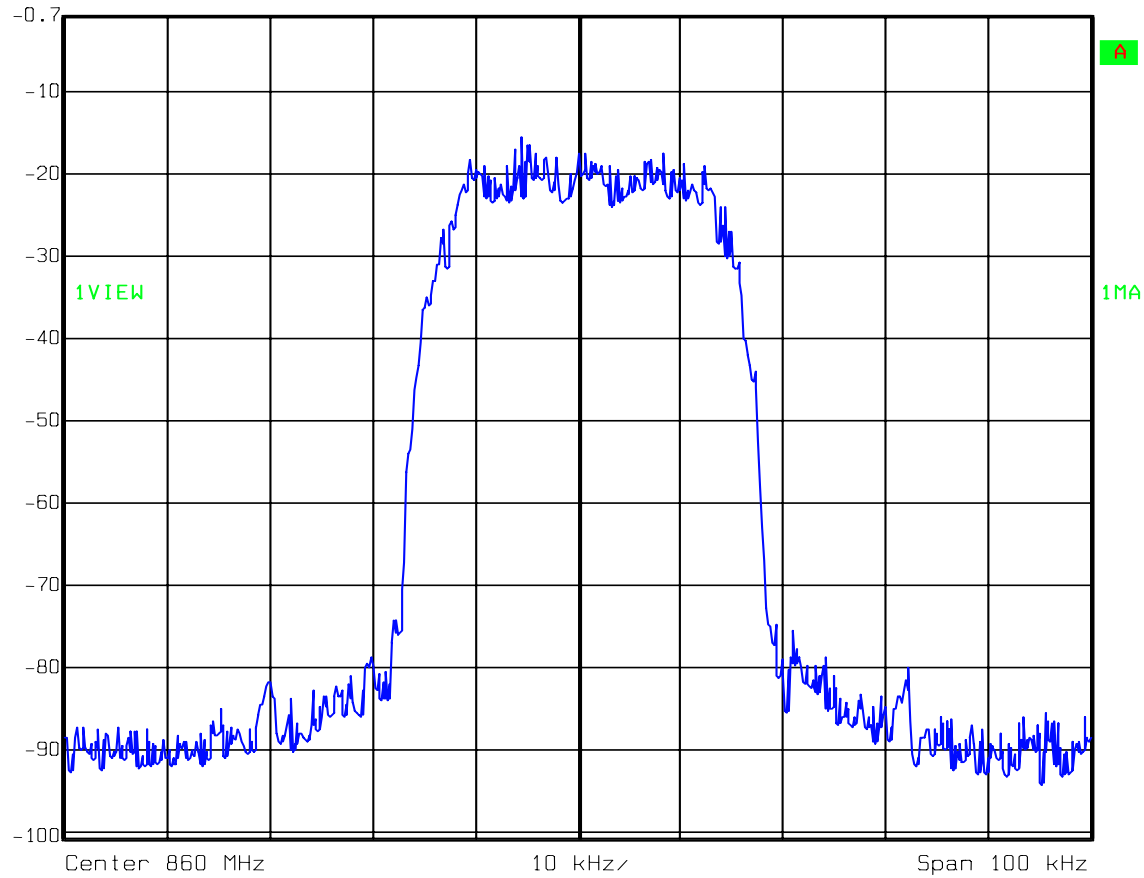
Input

iDEN



Ref Lvl
-0.7 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz		
SWT	5.6 s	Unit	dBm



Date: 26.AUG.2009 14:26:31

Test Data – Occupied Bandwidth

900 LMR

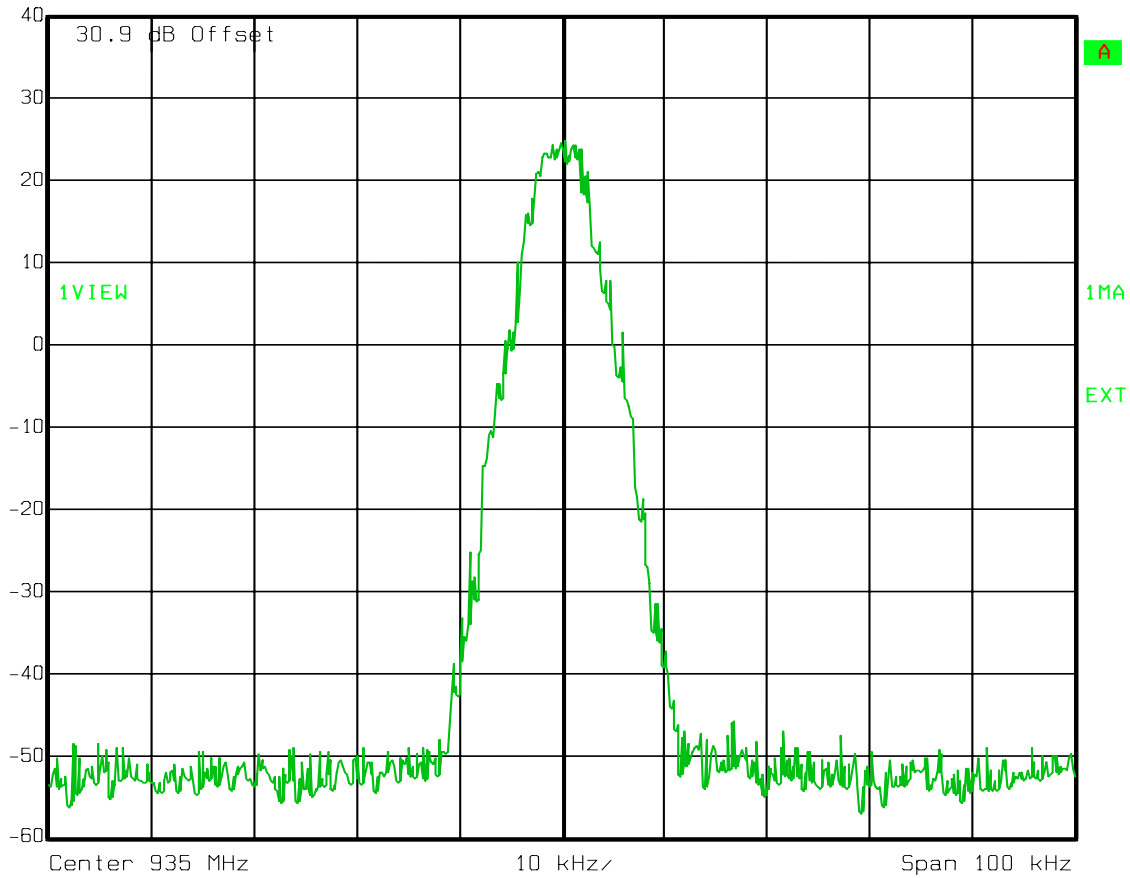
Output

C4FM



Ref Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 27.SEP.2010 15:28:45

Test Data – Occupied Bandwidth

900 LMR

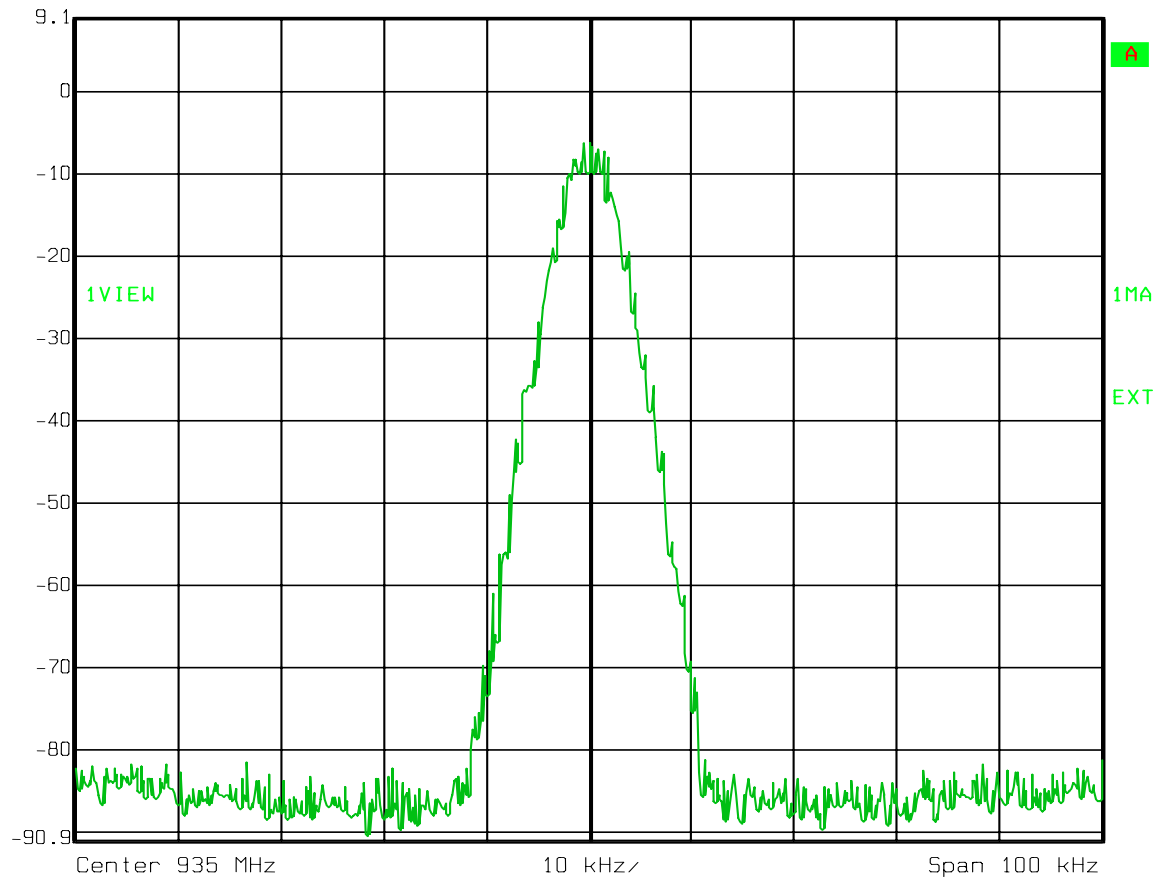
Input

C4FM/



Ref Lvl
9.1 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 27.SEP.2010 15:27:38

Test Data – Occupied Bandwidth

900 LMR

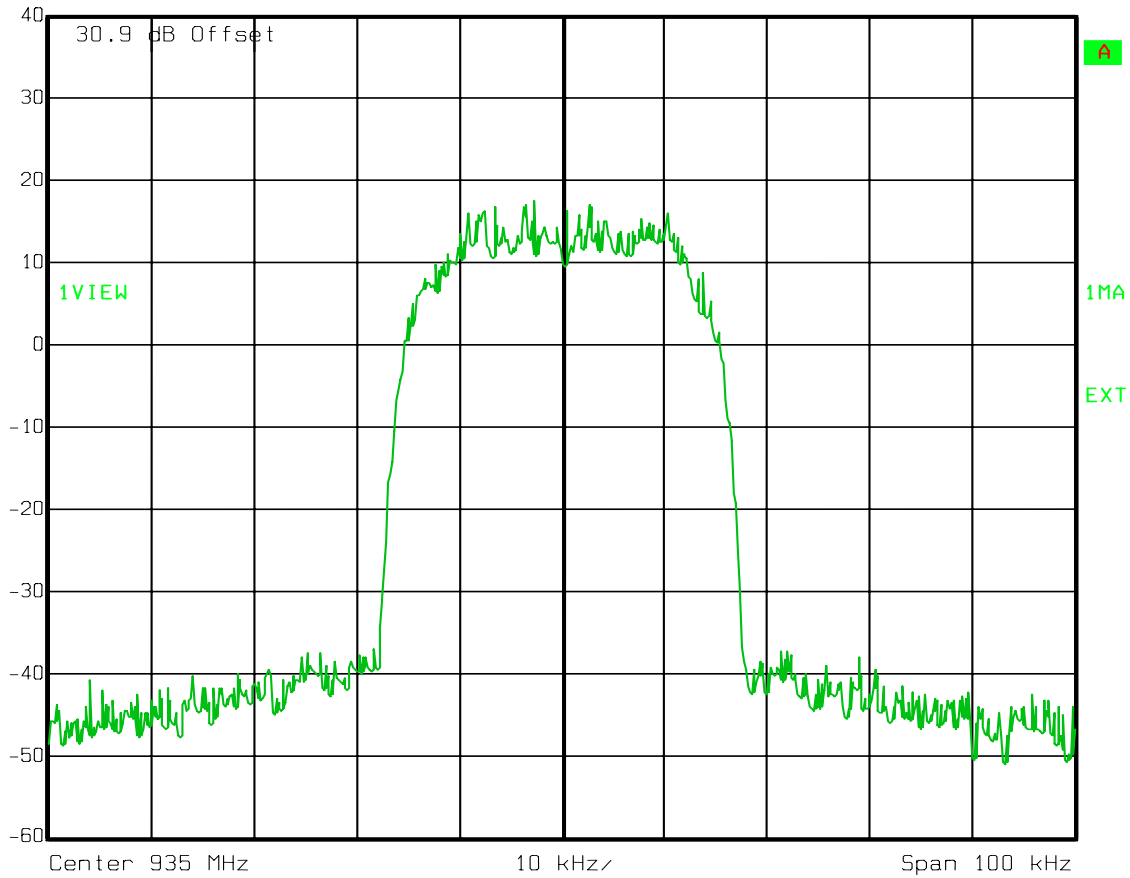
Output

iDEN



Ref Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 23.SEP.2010 12:49:34

Test Data – Occupied Bandwidth

900 LMR

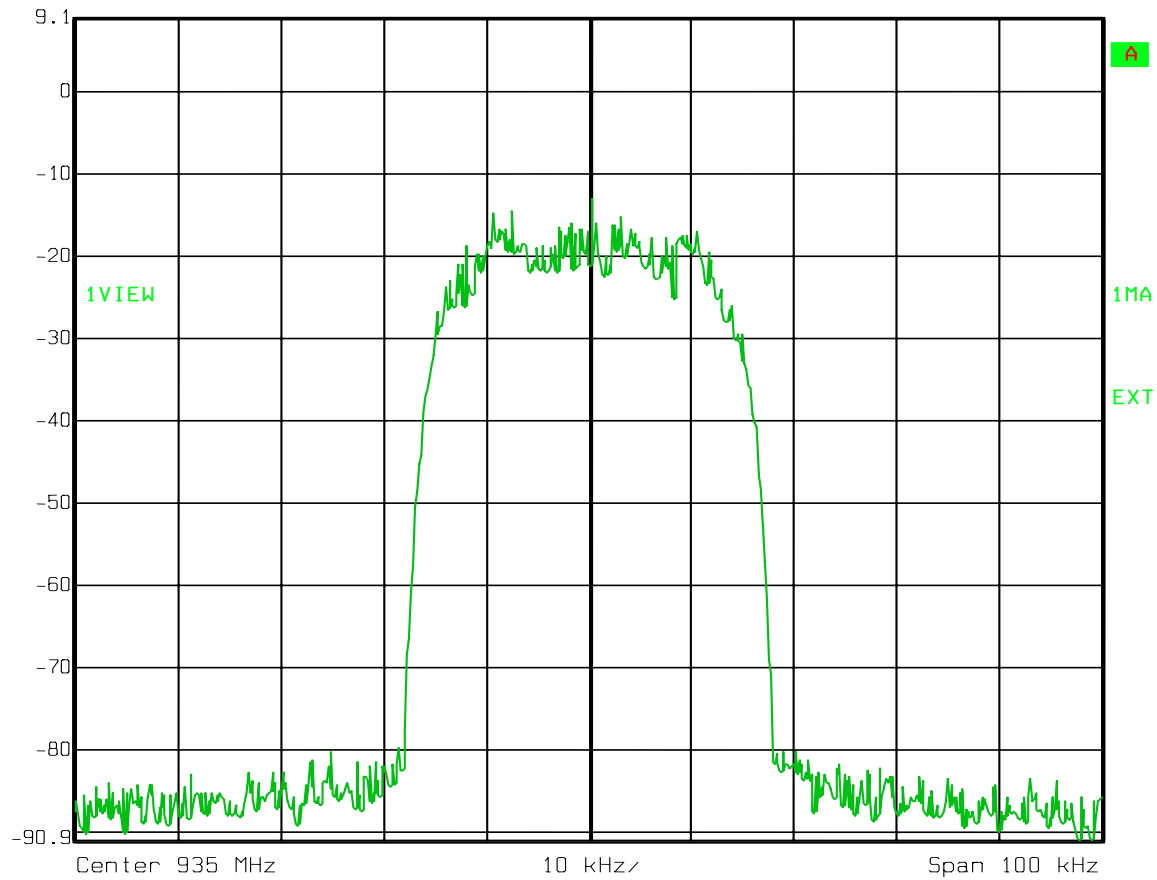
Input

iDEN



Ref Lvl
9.1 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 23.SEP.2010 12:50:49

Test Data – Occupied Bandwidth

900 LMR

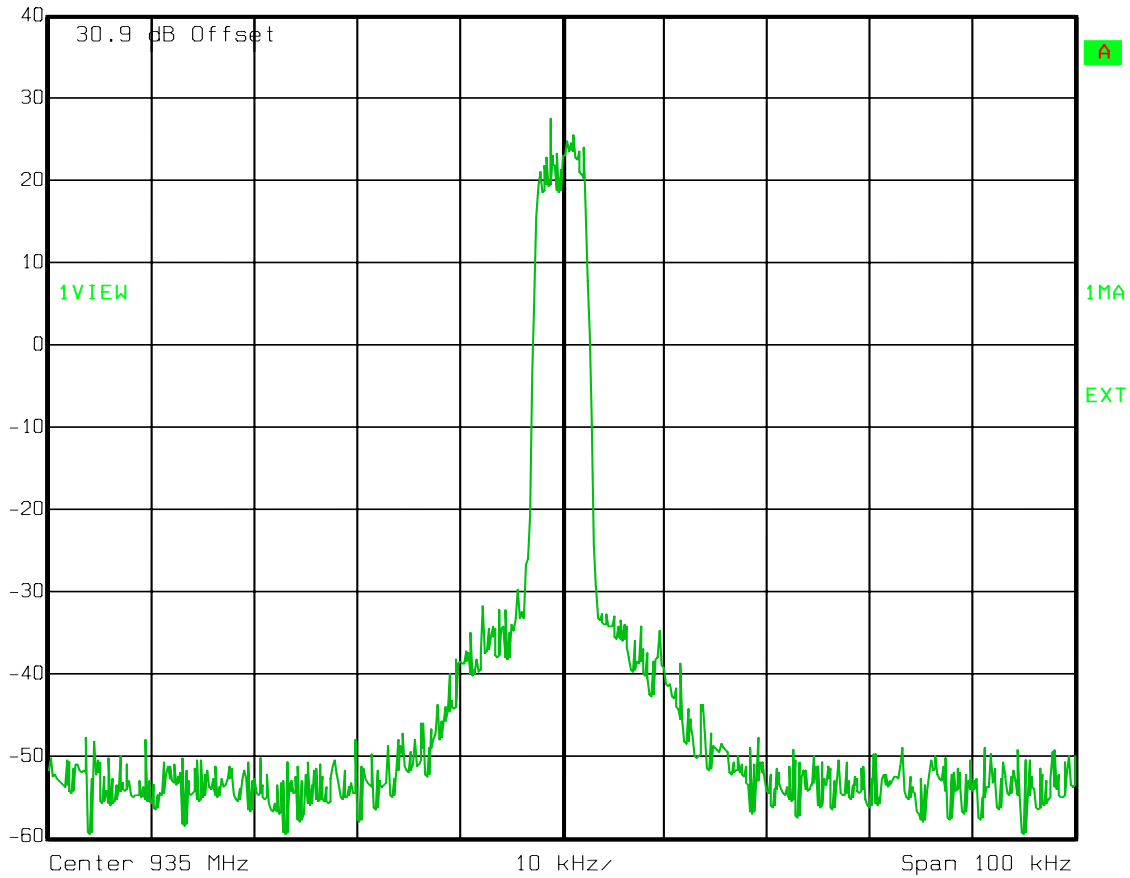
CQPSK

Output



Ref Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 27.SEP.2010 15:23:47

Test Data – Occupied Bandwidth

900 LMR

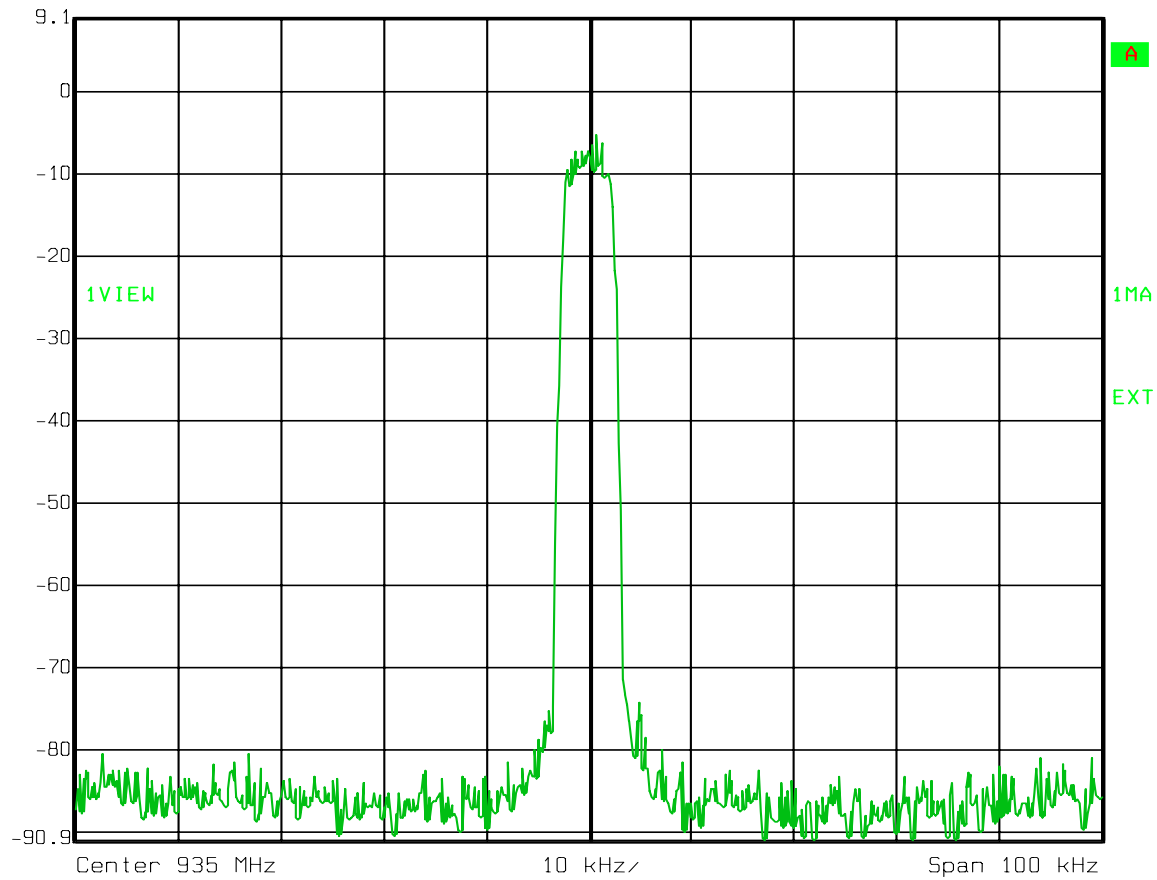
CQPSK

Input



Ref Lvl
9.1 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	5.6 s	Unit	dBm



Date: 27.SEP.2010 15:24:53

Section 5. Conducted Spurious Emissions

NAME OF TEST: Conducted Spurious Emissions	PARA. NO.: 2.991
TESTED BY: David Light	DATE: 26 August 2009 and 23 September 2010

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1082-1469-1472

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

Test Data – Spurious Emissions at Antenna Terminals

700 LMR

Low edge

APCO CQPSK

Ref Lvl
40 dBm

Marker 1 [T1]

-28.20 dBm

RBW 1 kHz

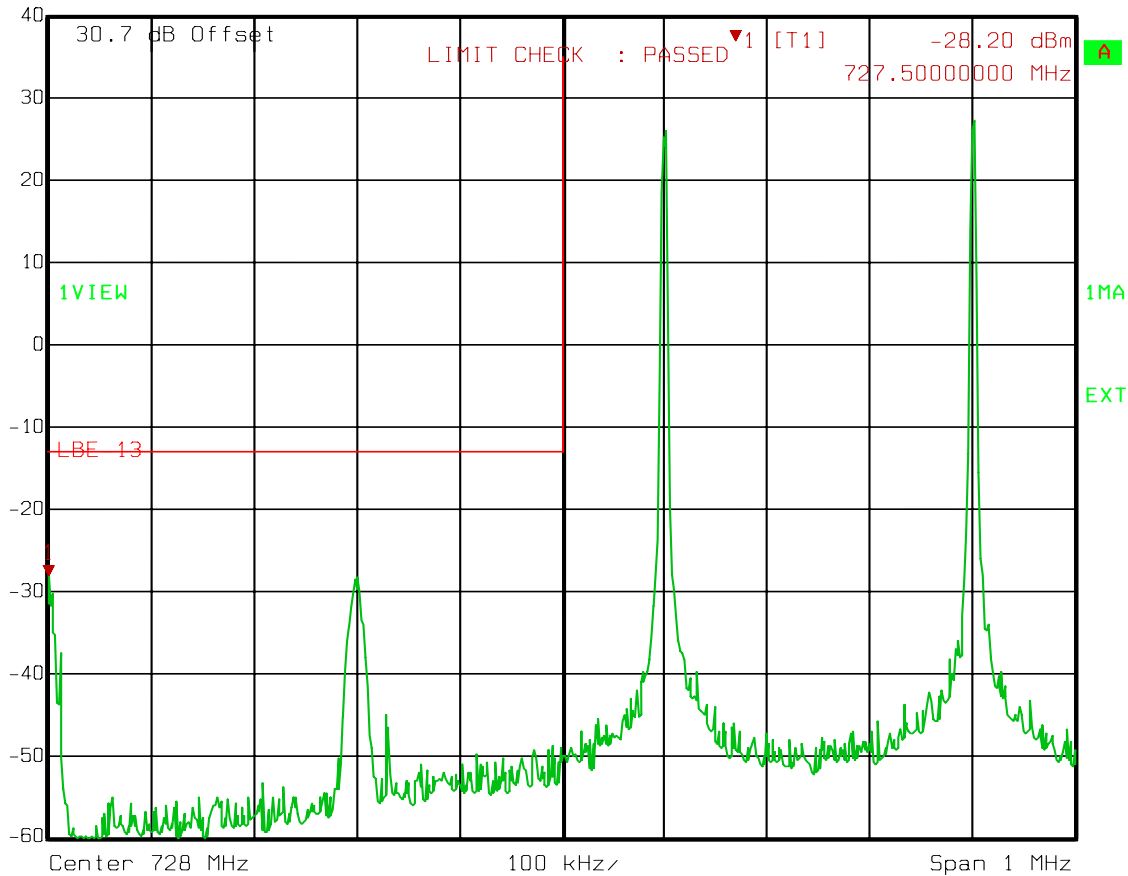
RF Att 20 dB

VBW 1 kHz

Mixer -10 dBm

SWT 2.5 s

Unit dBm



Date: 27.SEP.2010 15:13:24

Test Data – Spurious Emissions at Antenna Terminals

700 band

Upper Band edge

APCO CQPSK

Ref Lvl
40 dBm

Marker 1 [T1]

-28.77 dBm

RBW 1 kHz

RF Att 20 dB

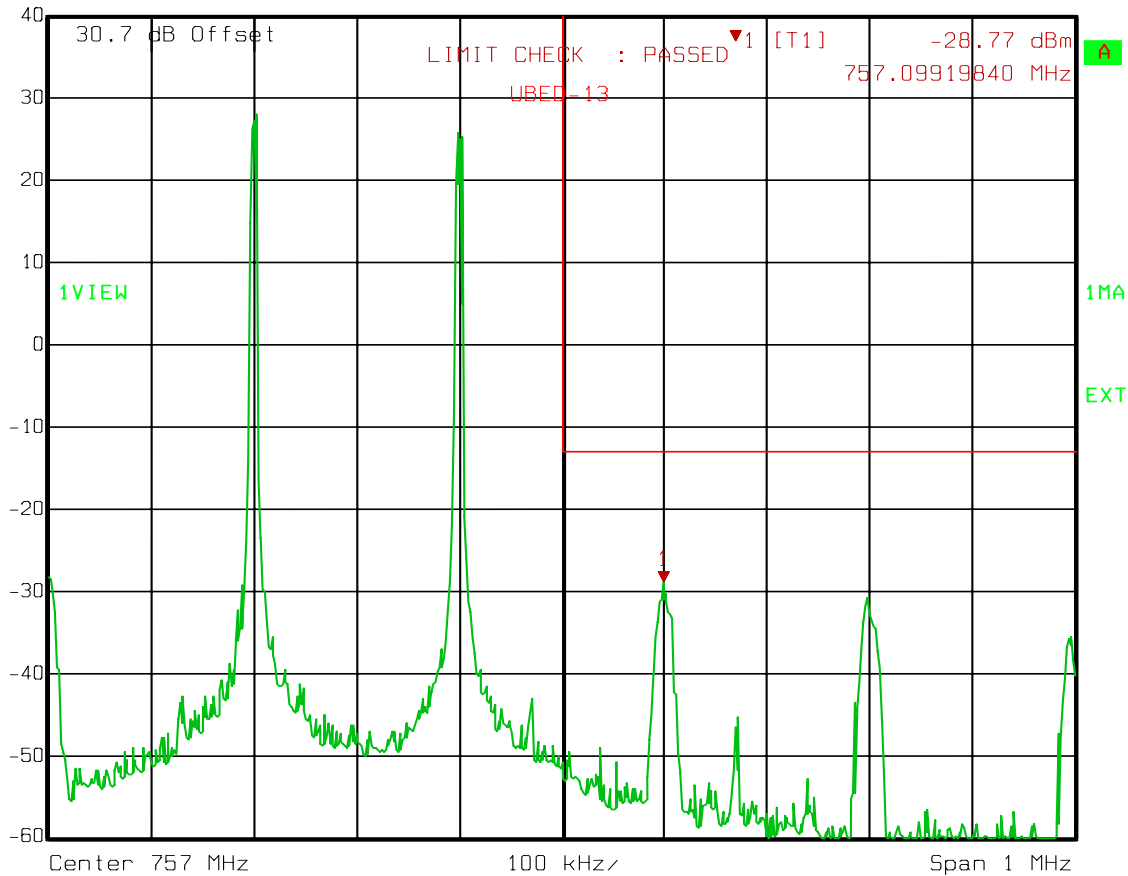
VBW 1 kHz

Mixer -10 dBm

SWT 2.5 s

Unit dBm

757.09919840 MHz



Date: 27.SEP.2010 15:14:22

Test Data – Spurious Emissions at Antenna Terminals

700 band

Spurious

APCO CQPSK

Ref Lvl
30 dBm

Marker 1 [T1]

-33.19 dBm

RBW 1 MHz

RF Att 10 dB

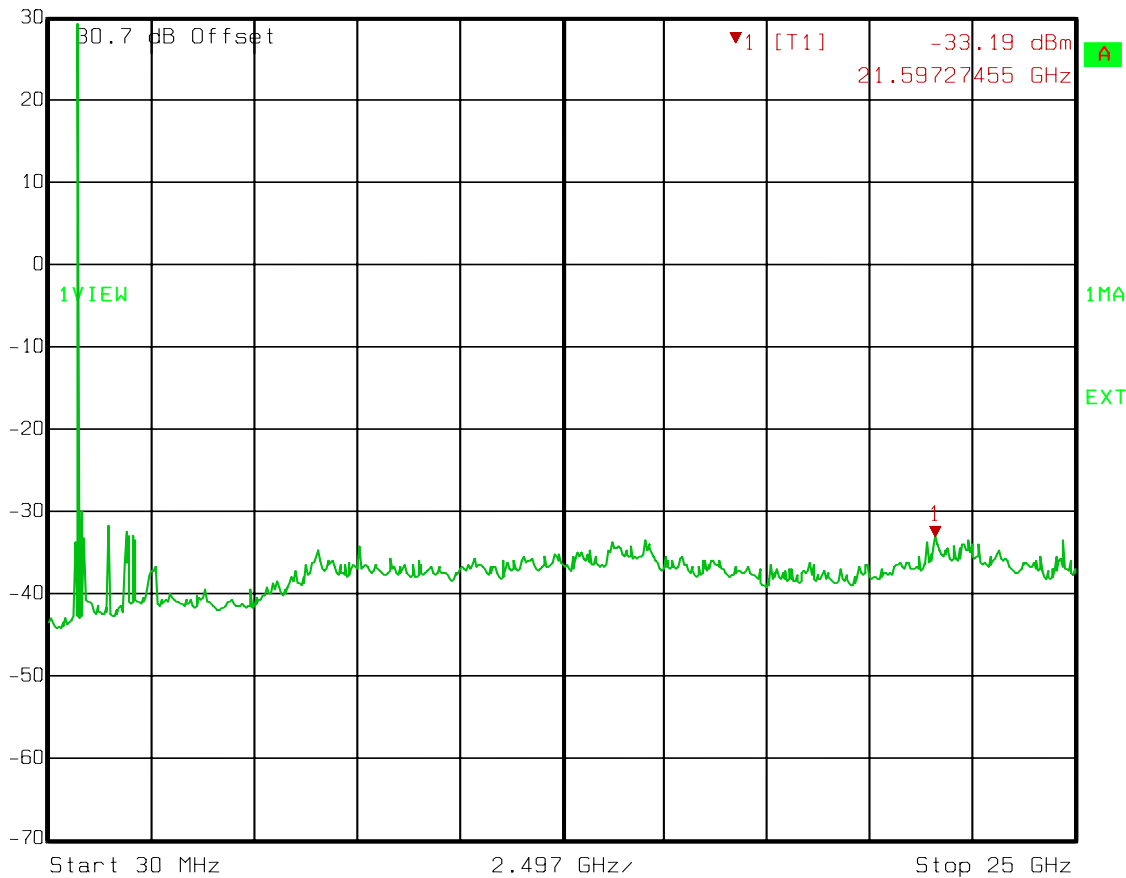
VBW 1 MHz

Mixer -10 dBm

SWT 250 ms

Unit dBm

21.59727455 GHz



Date: 27.SEP.2010 15:11:46

Test Data – Spurious Emissions at Antenna Terminals

Lower band edge

LTE

700 band



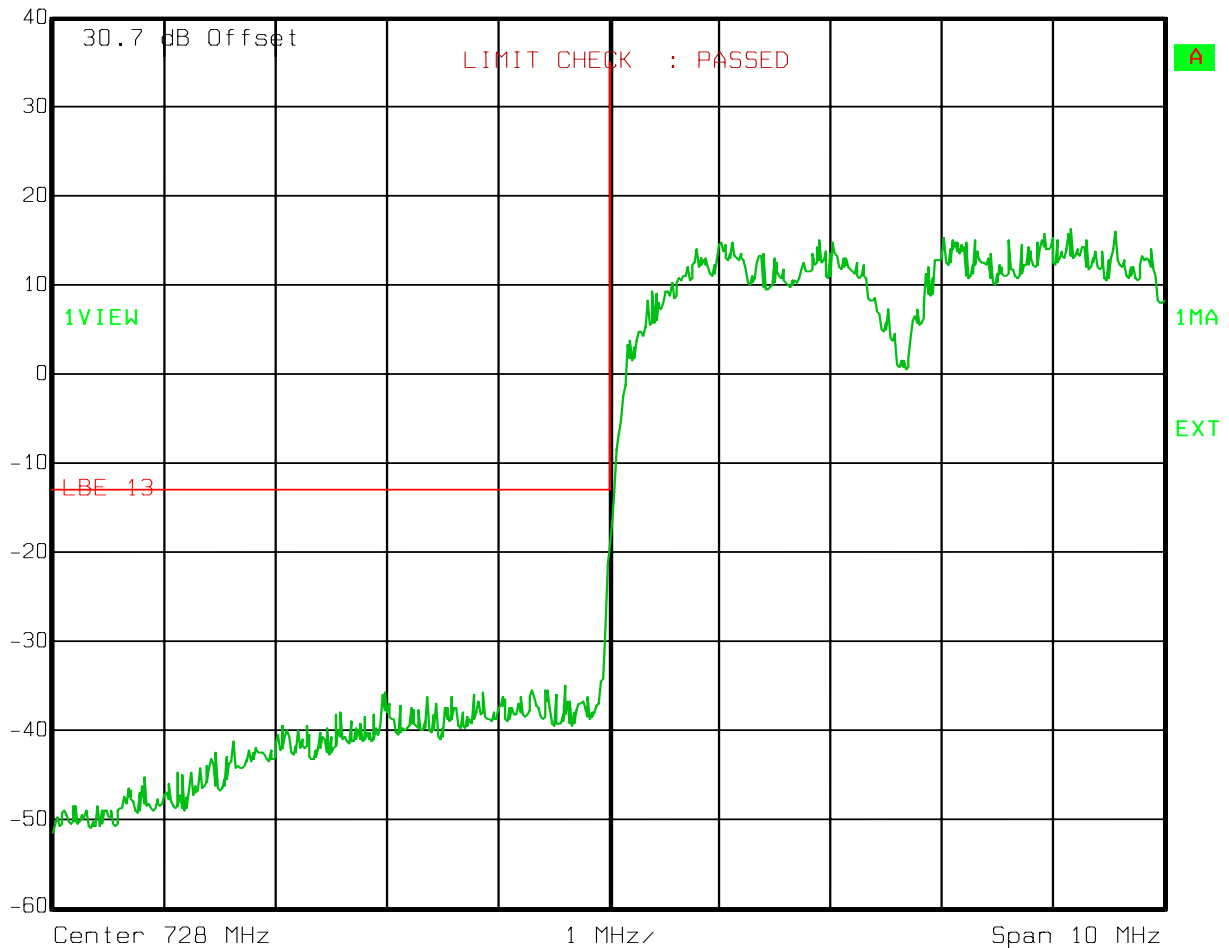
Ref Lvl

40 dBm

RBW 30 kHz RF Att 20 dB

VBW 30 kHz

SWT 28 ms Unit dBm



Date: 13.OCT.2010 13:36:35

Test Data – Spurious Emissions at Antenna Terminals

Upper band edge

LTE

700 band



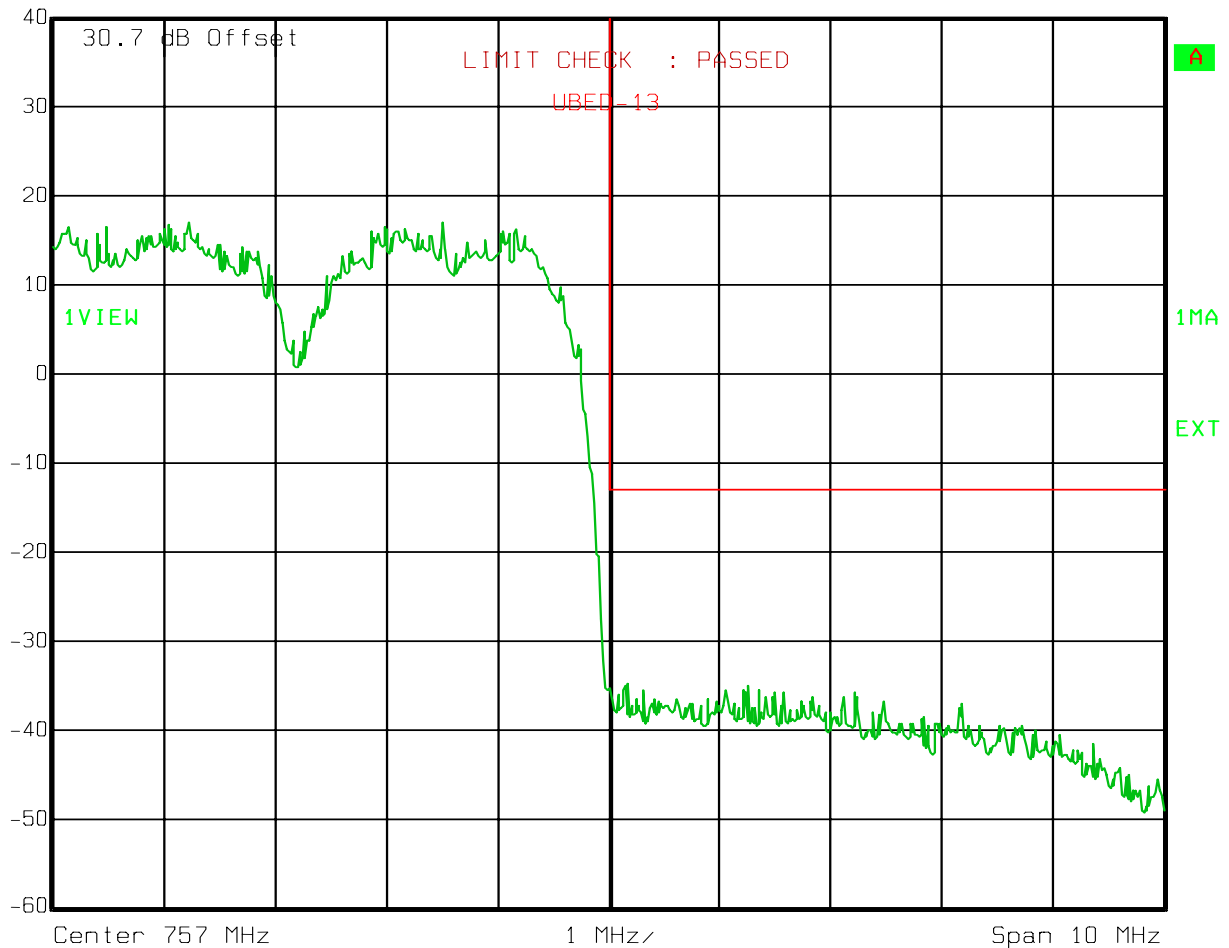
Ref Lvl

40 dBm

RBW 30 kHz RF Att 20 dB

VBW 30 kHz

SWT 28 ms Unit dBm



Date: 13.OCT.2010 13:38:01

Test Data – Spurious Emissions at Antenna Terminals

Spurious Emissions

LTE

700 band



Ref Lvl
40 dBm

Marker 1 [T1]

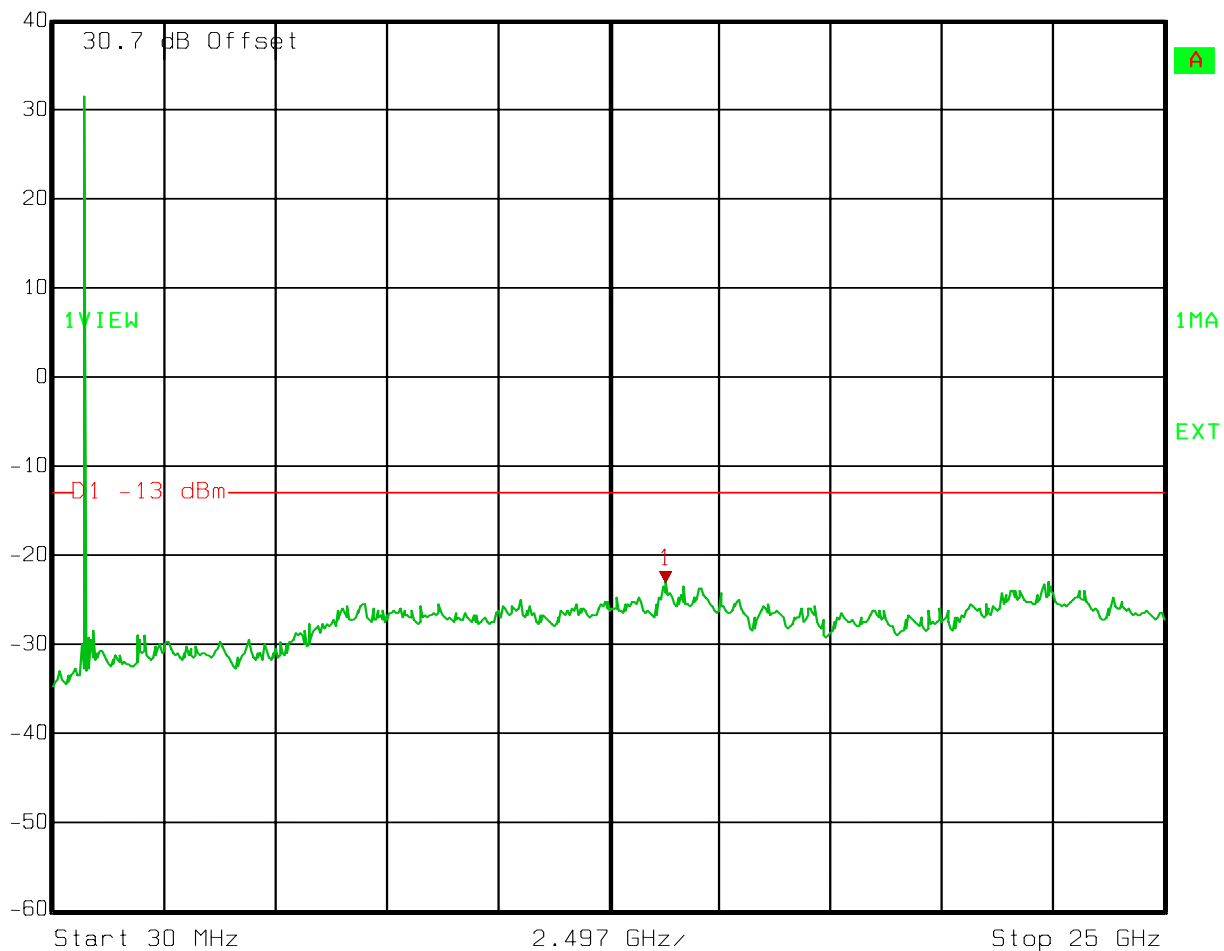
-23.12 dBm

13.79102204 GHz

RBW 1 MHz RF Att 20 dB

VBW 1 MHz

SWT 250 ms Unit dBm



Date: 13.OCT.2010 13:33:44

Test Data – Spurious Emissions at Antenna Terminals

Low edge

700 band

GSM



Ref Lvl

40 dBm

Marker 1 [T1]

-58.65 dBm

727.00000000 MHz

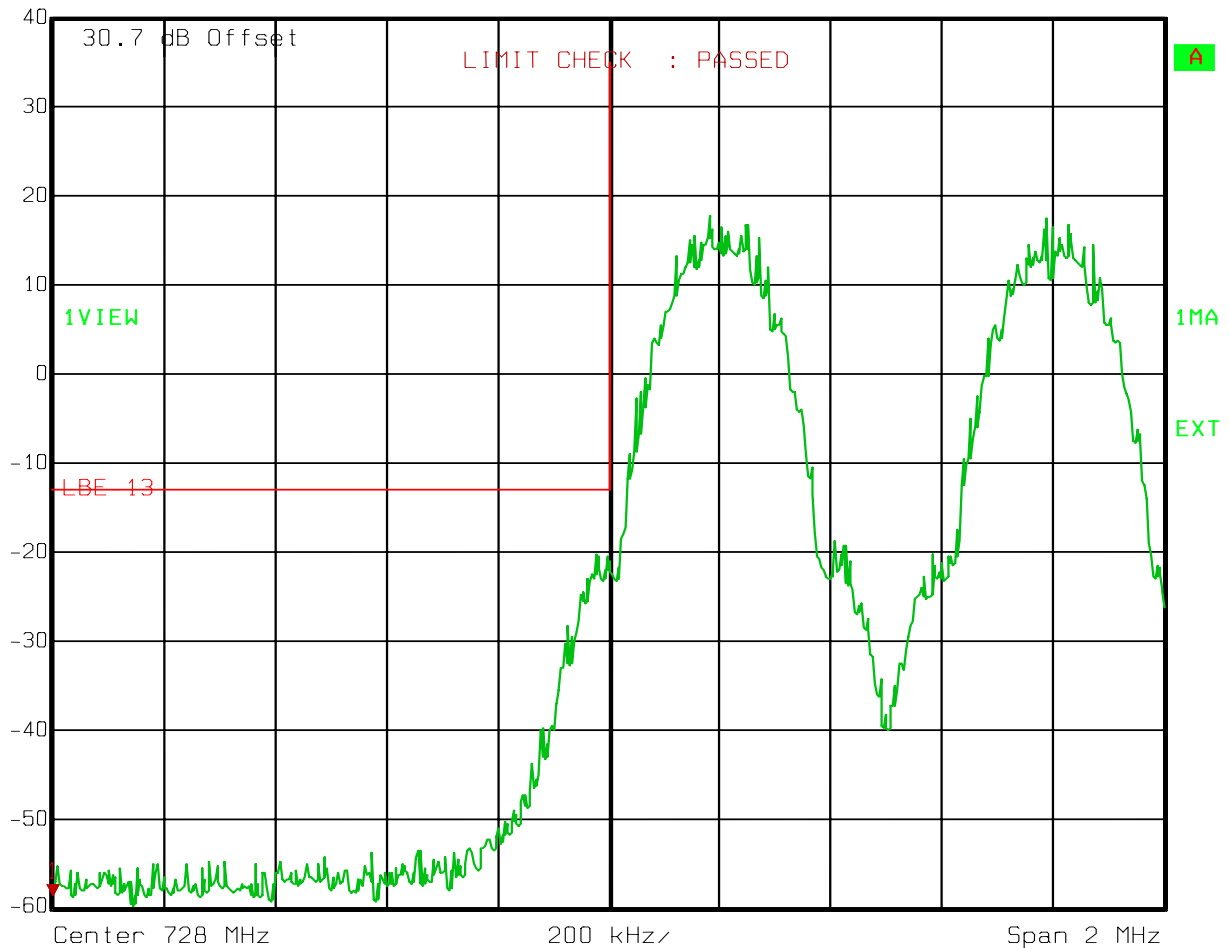
RBW 3 kHz

VBW 3 kHz

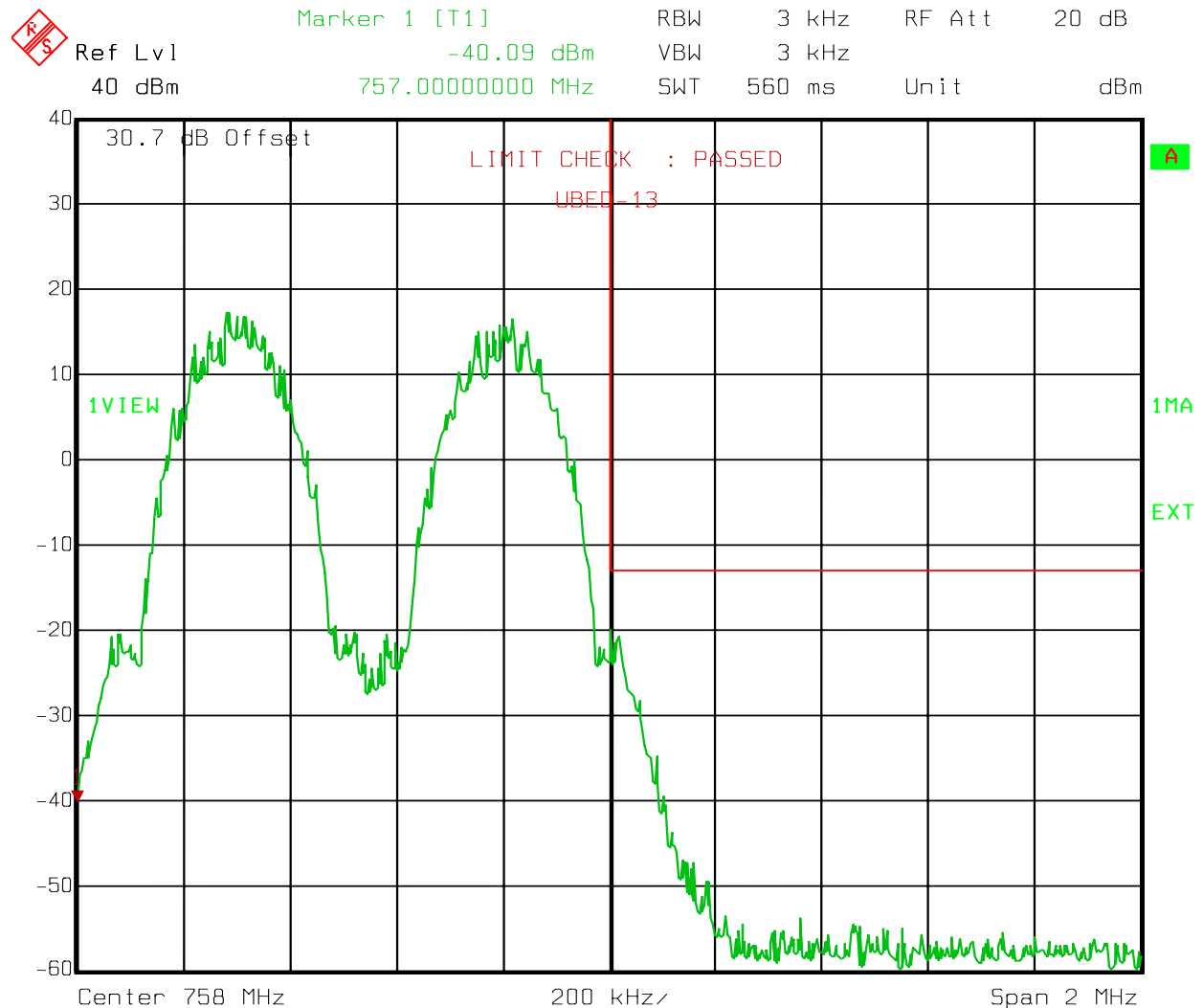
SWT 560 ms

RF Att 20 dB

Unit dBm



Date: 13.OCT.2010 13:50:01

Test Data – Spurious Emissions at Antenna TerminalsUpper edge
700 band
GSM

Date: 13.OCT.2010 13:52:24

Test Data – Spurious Emissions at Antenna TerminalsSpurious
GSM
700 bandRef Lvl
40 dBm

Marker 1 [T1]

-22.36 dBm

21.64731463 GHz

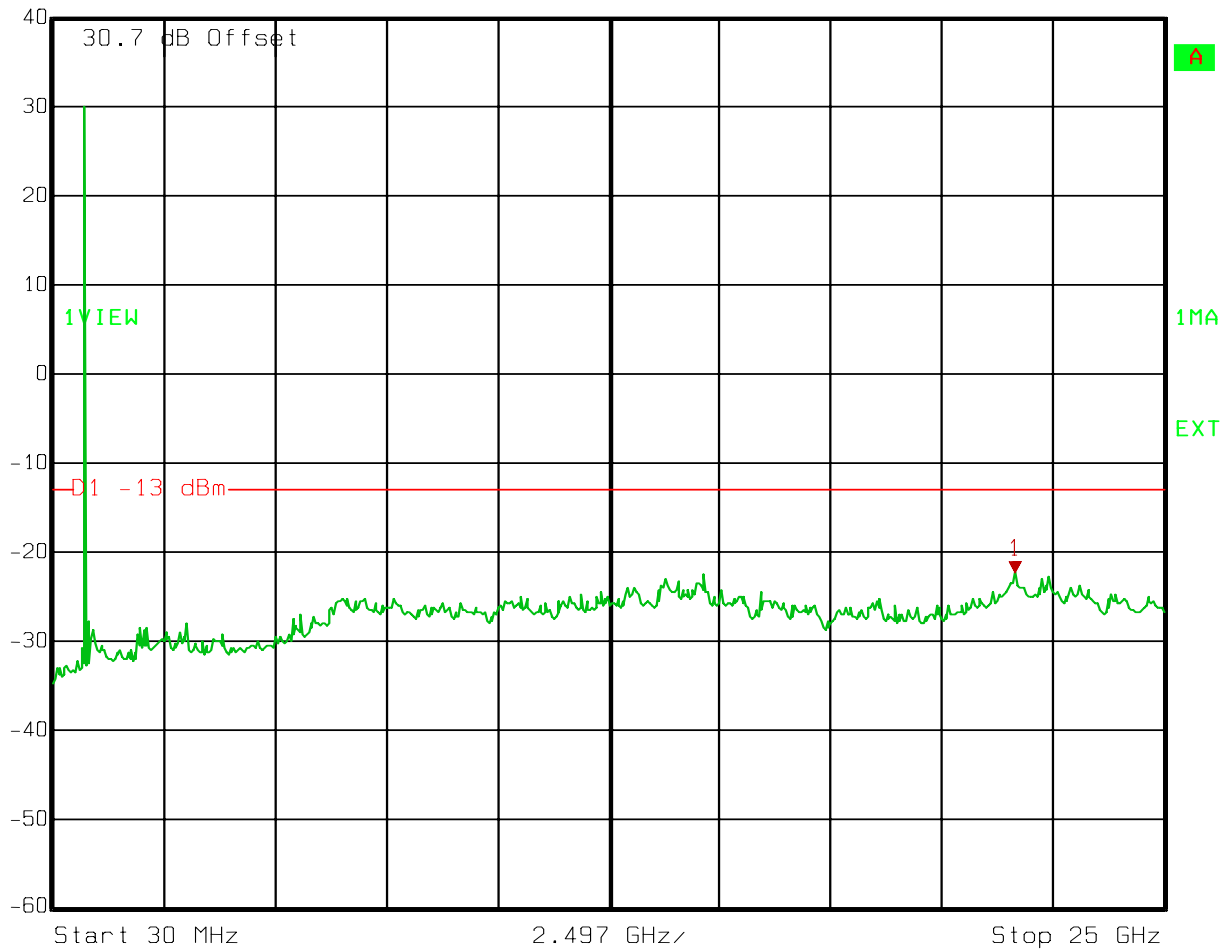
RBW 1 MHz

VBW 1 MHz

SWT 250 ms

RF Att 20 dB

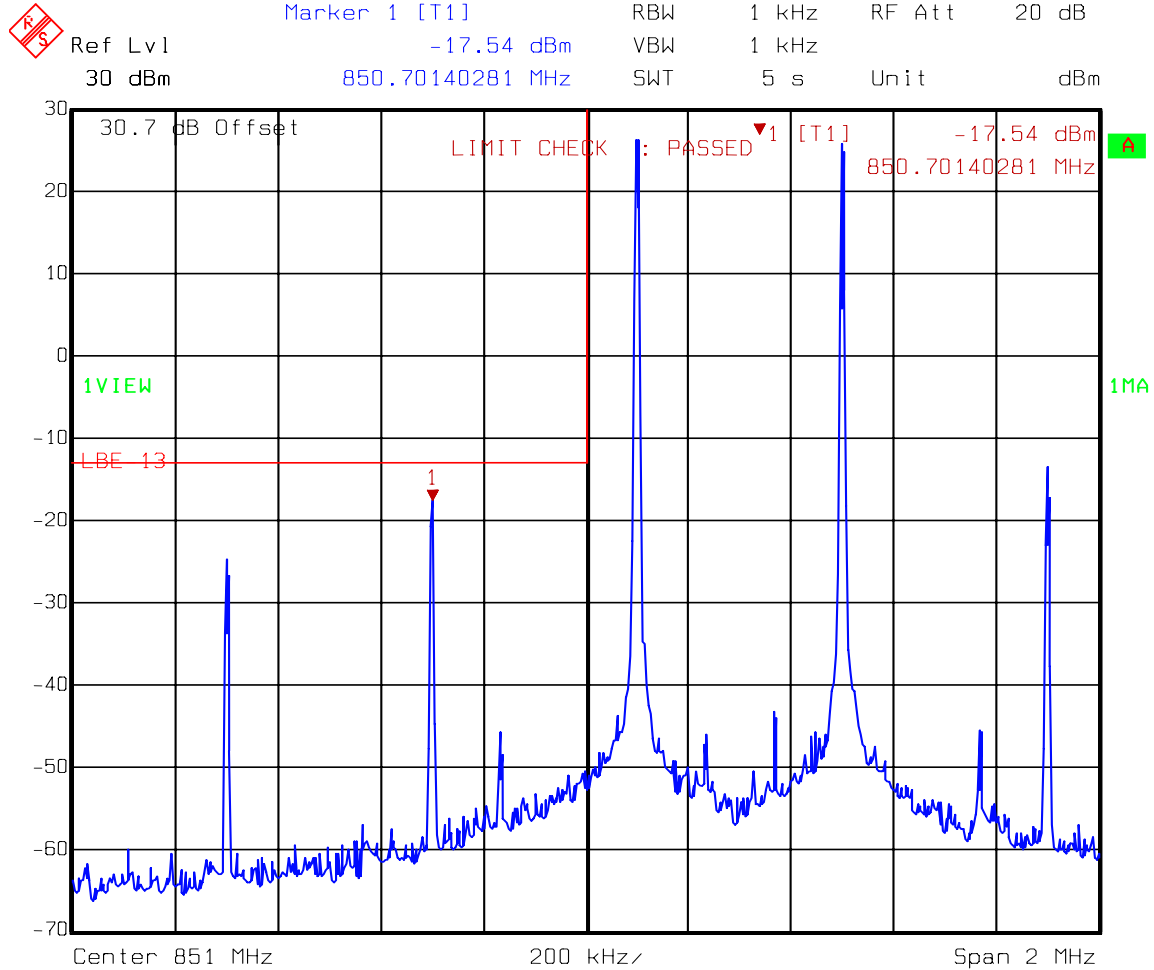
Unit dBm



Date: 13.OCT.2010 13:47:11

EQUIPMENT: TFAH-US7B

PROJECT NO.: 60865RUS3

800 LMR
Low Edge
C4FM

Date: 26.AUG.2009 14:11:23

Test Data – Spurious Emissions at Antenna Terminals

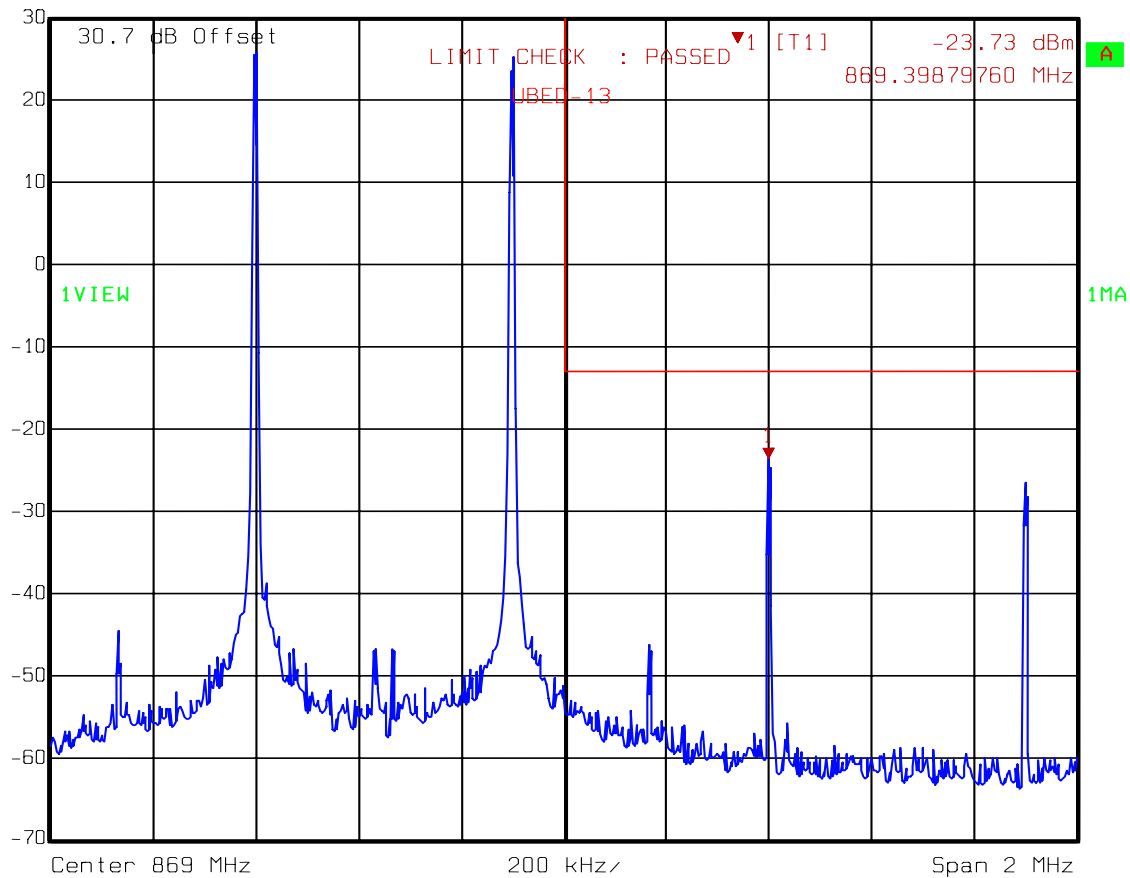
800 LMR

Upper Band Edge

C4FM



Marker 1 [T1] RBW 1 kHz RF Att 20 dB
Ref Lvl -23.73 dBm VBW 1 kHz
30 dBm 869.39879760 MHz SWT 5 s Unit dBm



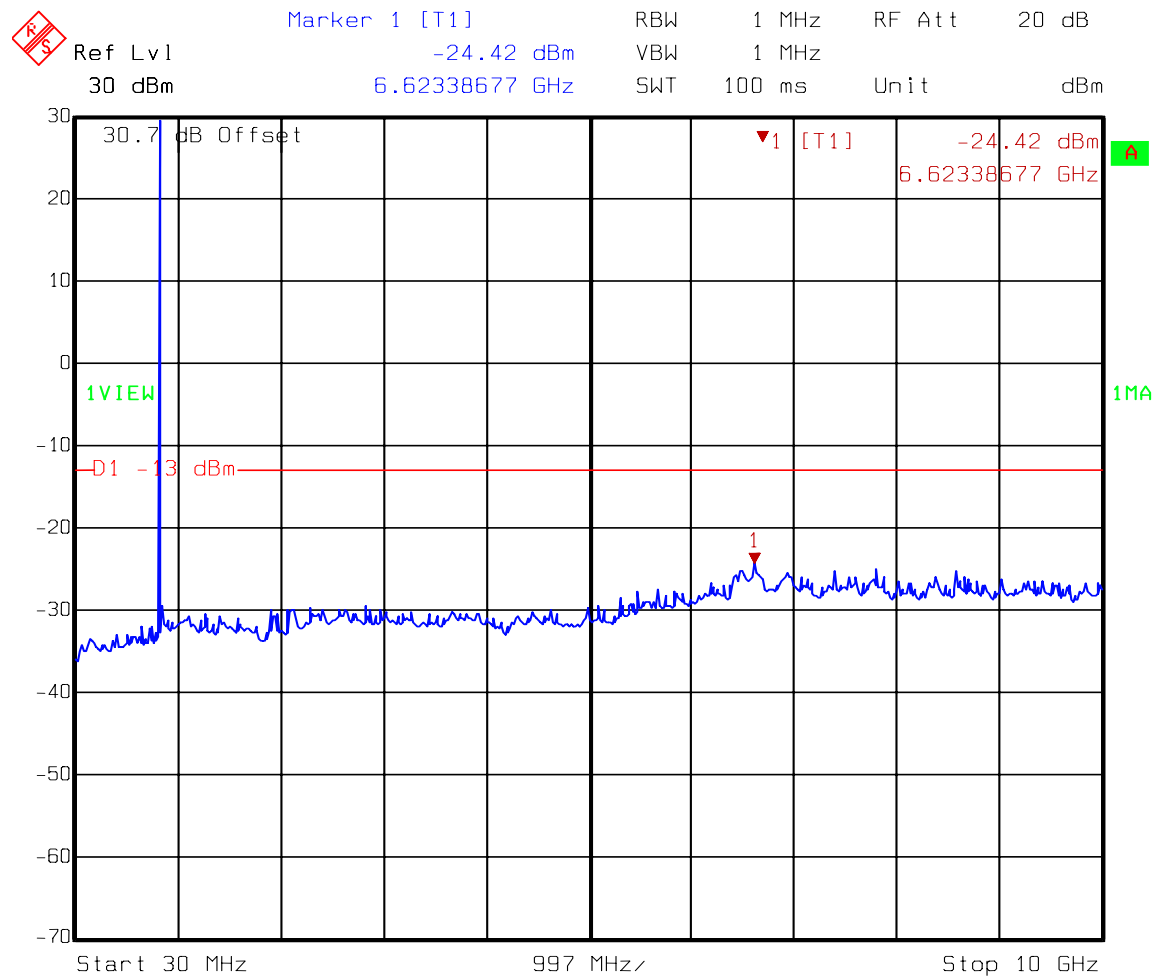
Date: 26.AUG.2009 14:13:51

Test Data – Spurious Emissions at Antenna Terminals

800 LMR

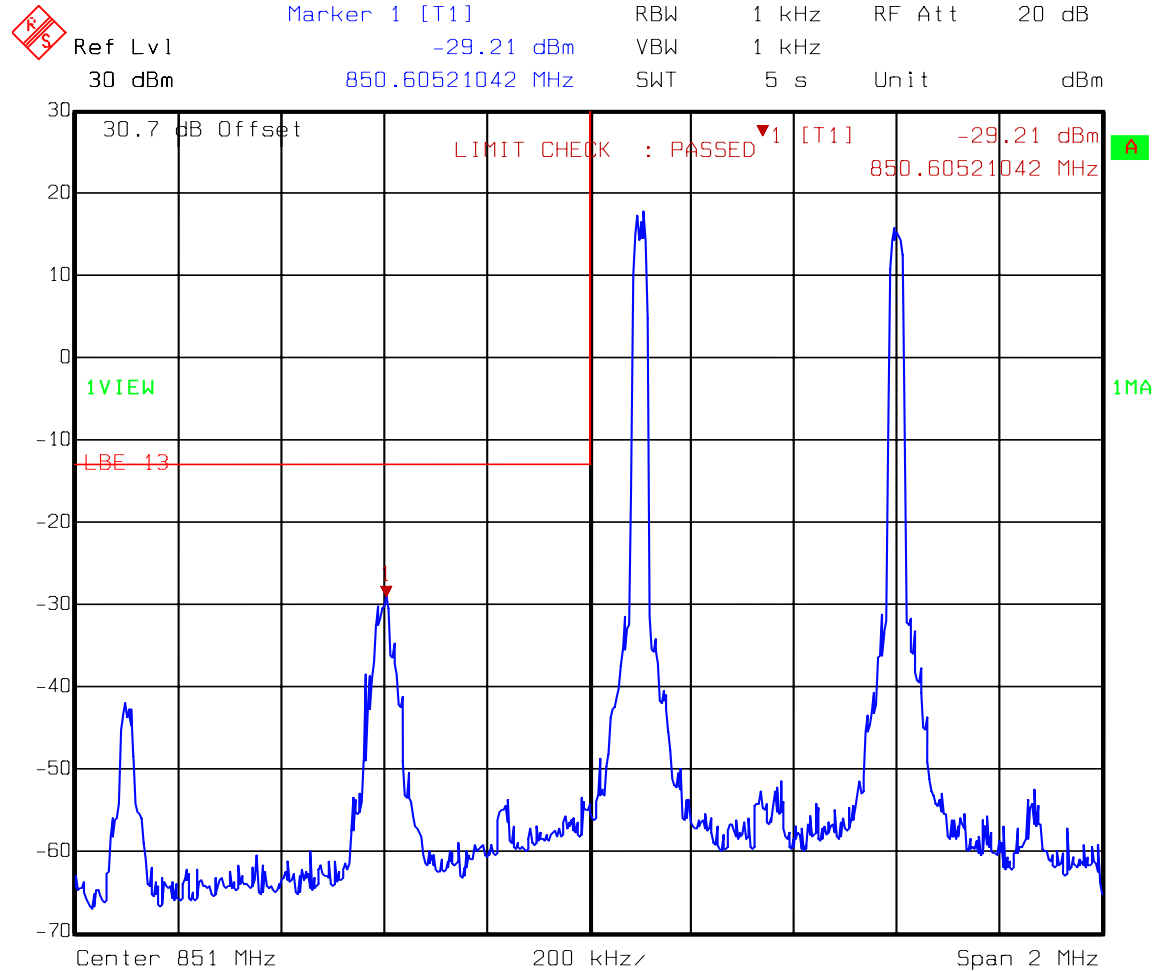
Spurs

C4FM



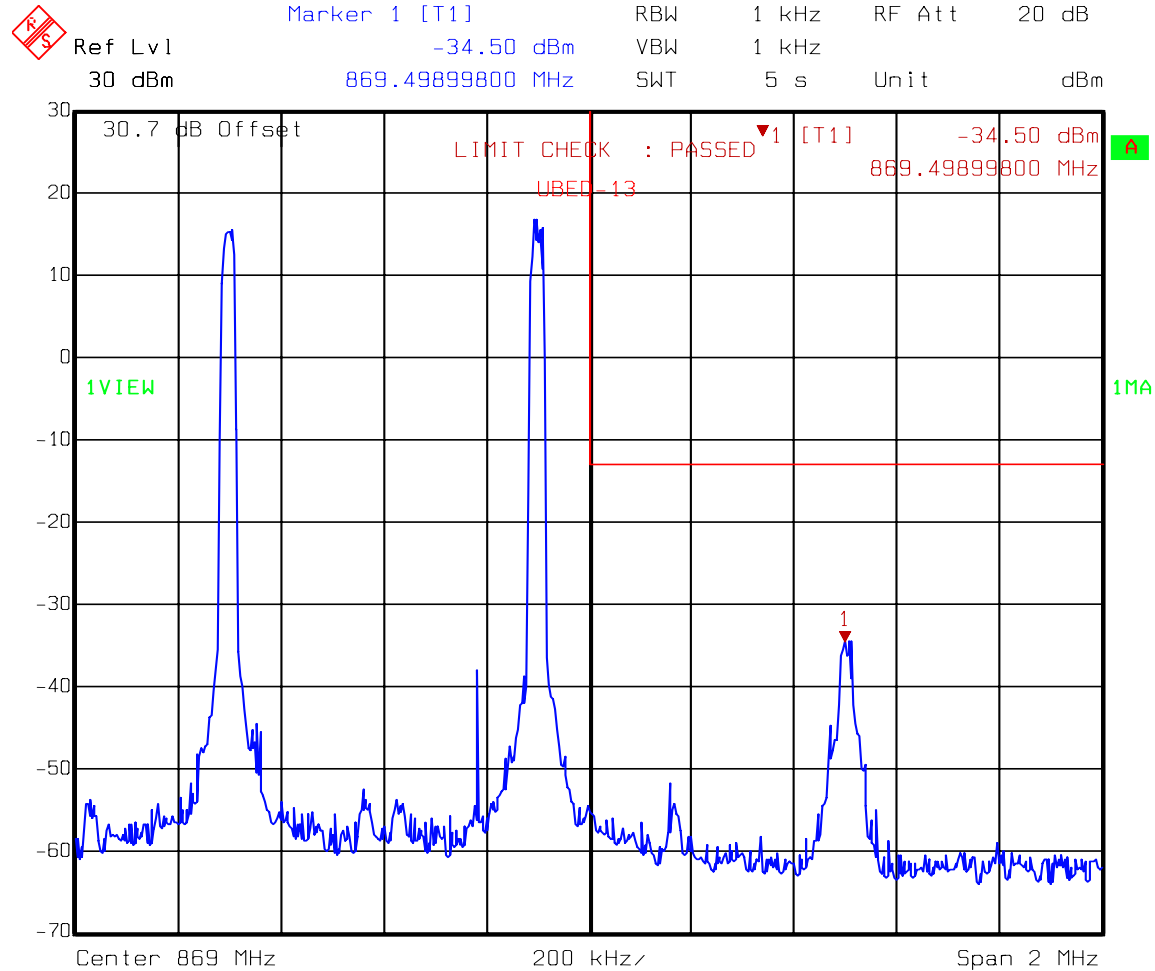
Date: 26.AUG.2009 14:17:16

Test Data – Spurious Emissions at Antenna Terminals

800 LMR
Low Edge
iDEN

Date: 26.AUG.2009 14:20:36

Test Data – Spurious Emissions at Antenna Terminals

800 LMR
Upper Edge
iDEN

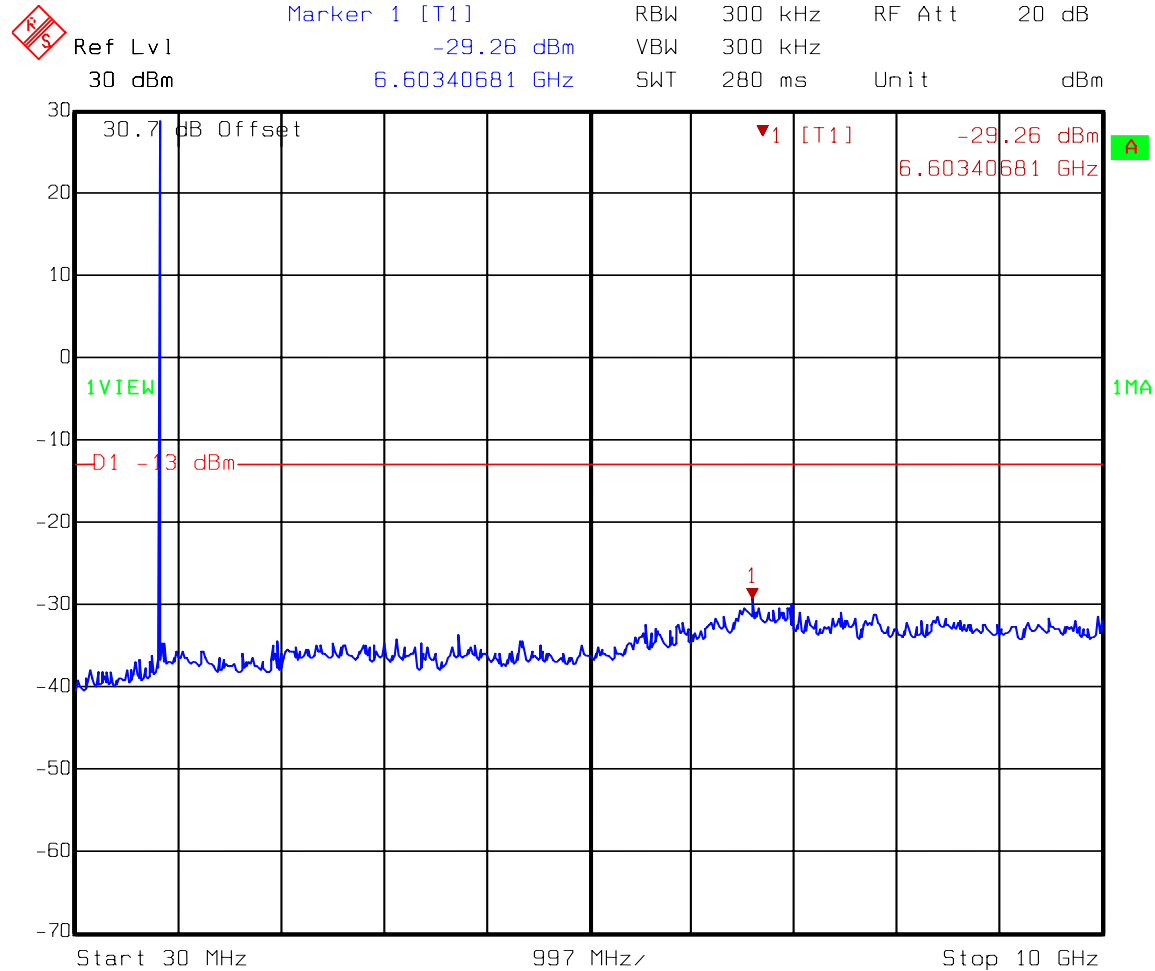
Date: 26.AUG.2009 14:23:09

Test Data – Spurious Emissions at Antenna Terminals

800 LMR

Spurs

iDEN



Date: 26.AUG.2009 14:24:25

Test Data – Spurious Emissions at Antenna Terminals

900 LMR

Low edge

APCO C4FM

Ref Lvl
40 dBm

Marker 1 [T1]

-26.15 dBm

928.69639279 MHz

RBW 1 kHz

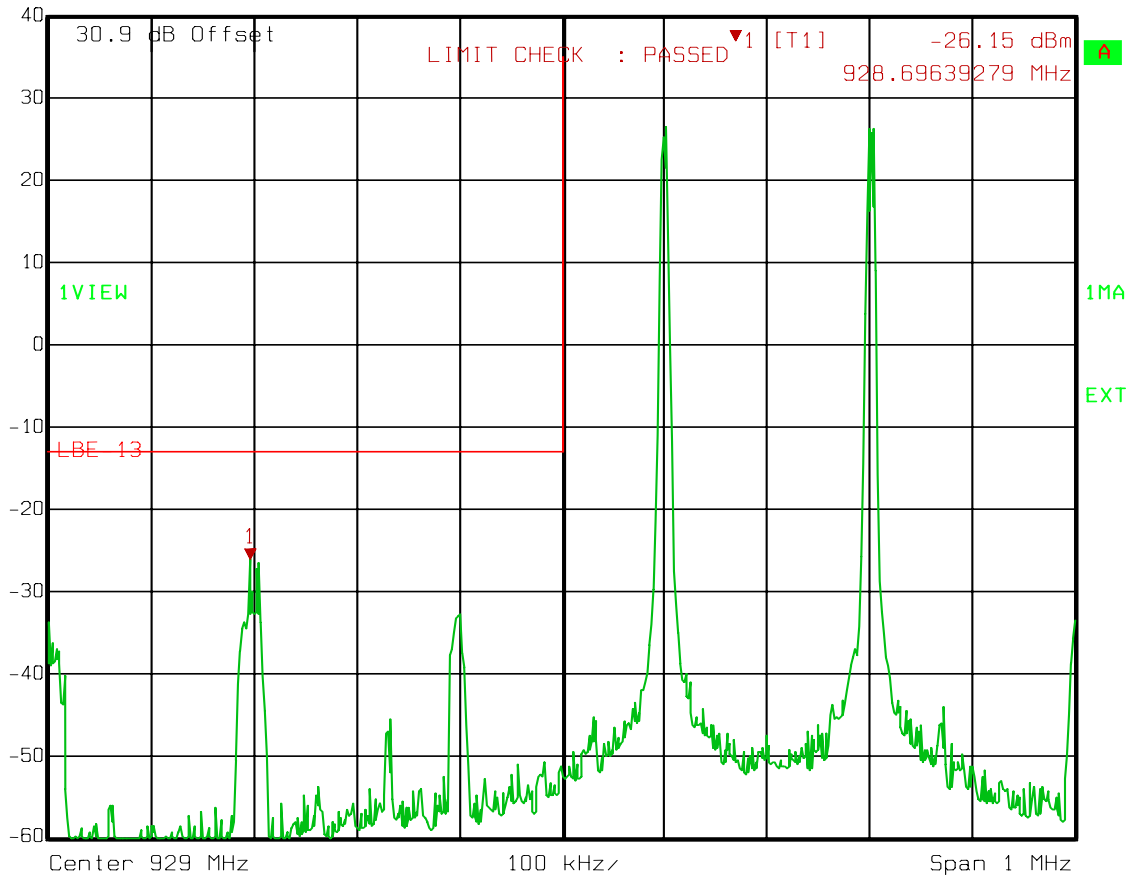
VBW 1 kHz

SWT 2.5 s

RF Att 20 dB

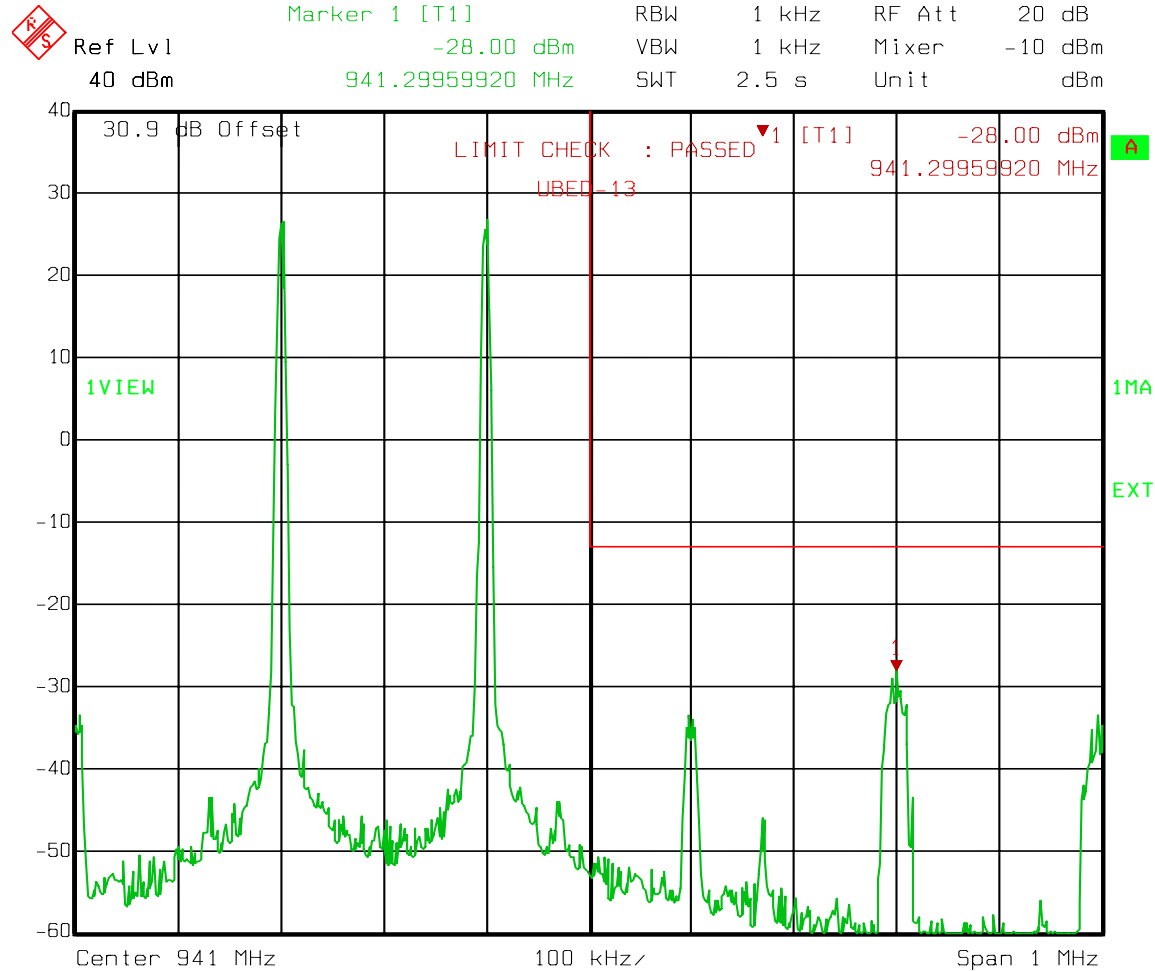
Mixer -10 dBm

Unit dBm



Date: 27.SEP.2010 15:31:45

Test Data – Spurious Emissions at Antenna Terminals

900 LMR
Upper Band edge
APCO C4FM

Test Data – Spurious Emissions at Antenna Terminals

900 LMR
Spurious
APCO C4FMRef Lvl
30 dBm

Marker 1 [T1]

-32.68 dBm

22.34787575 GHz

RBW 1 MHz

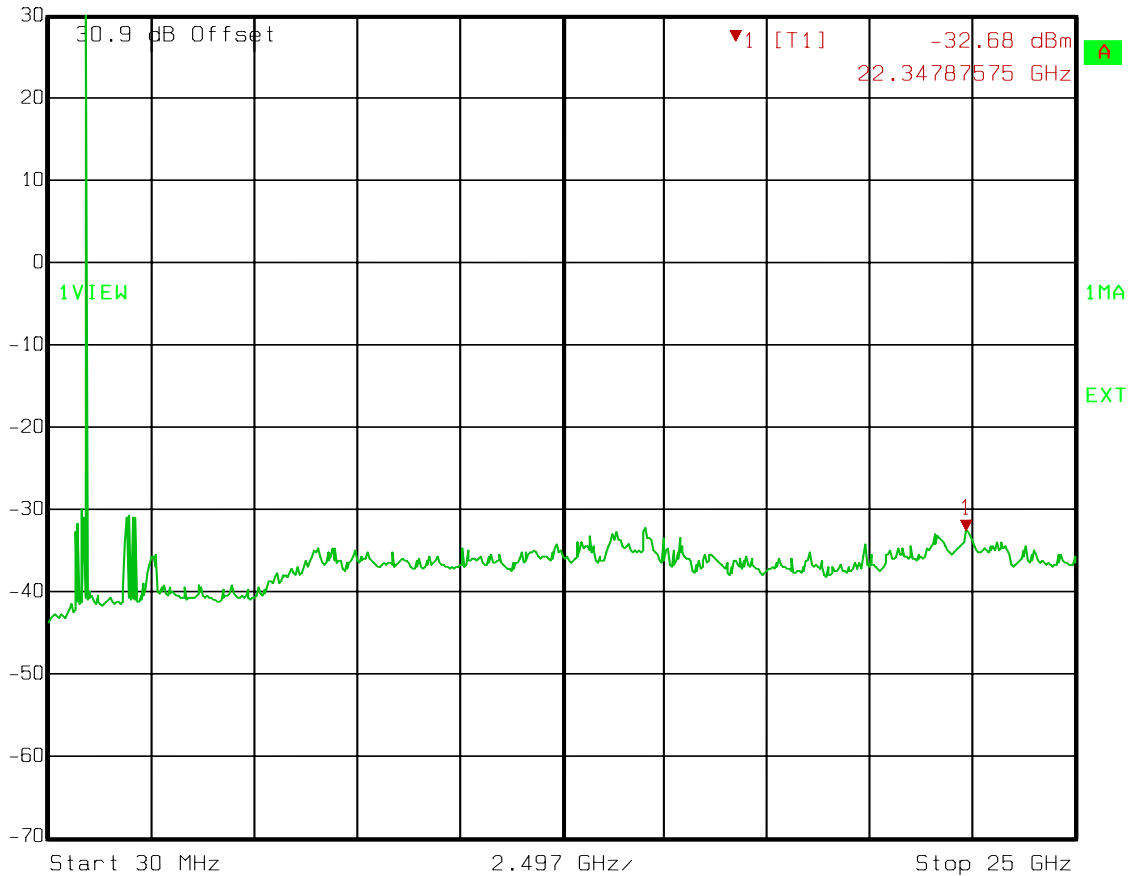
VBW 1 MHz

SWT 250 ms

RF Att 10 dB

Mixer -10 dBm

Unit dBm



Date: 27.SEP.2010 15:29:19

Test Data – Spurious Emissions at Antenna Terminals

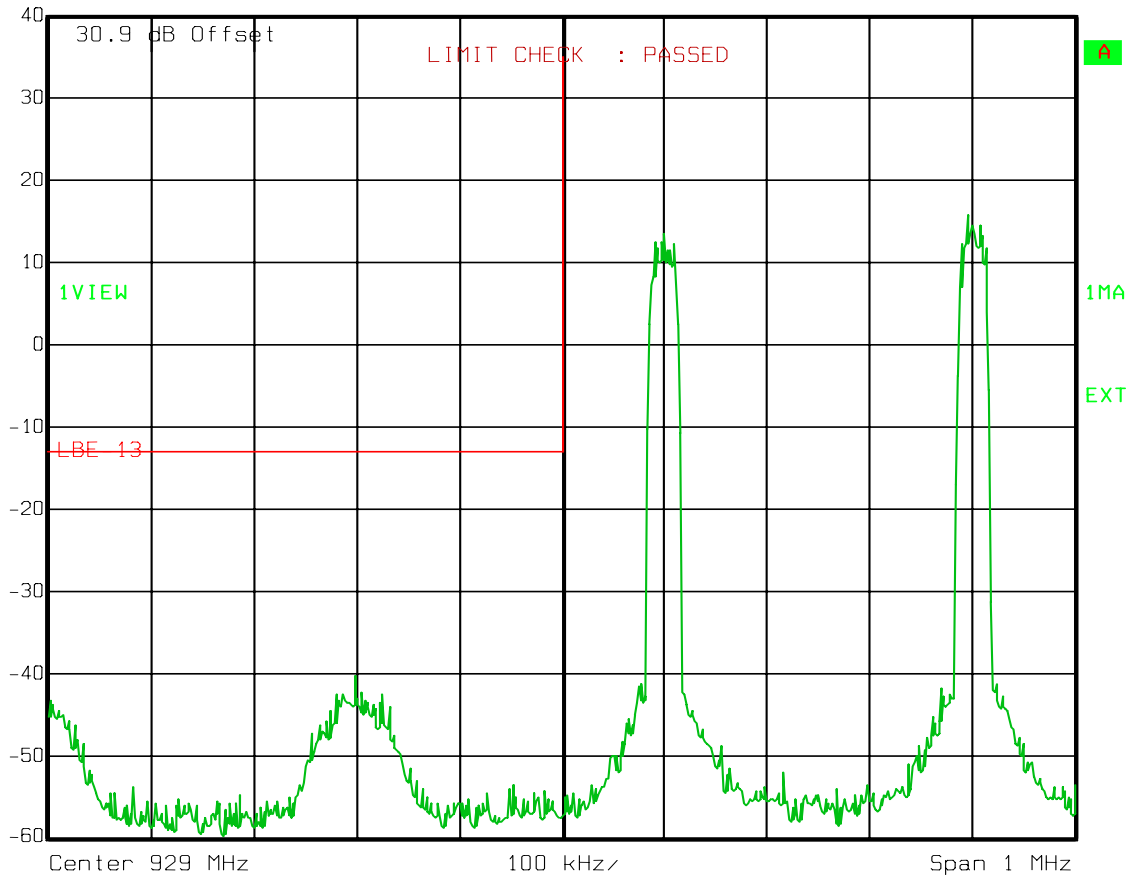
900 LMR

Low Edge

iDEN

Ref Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	56 s	Unit	dBm

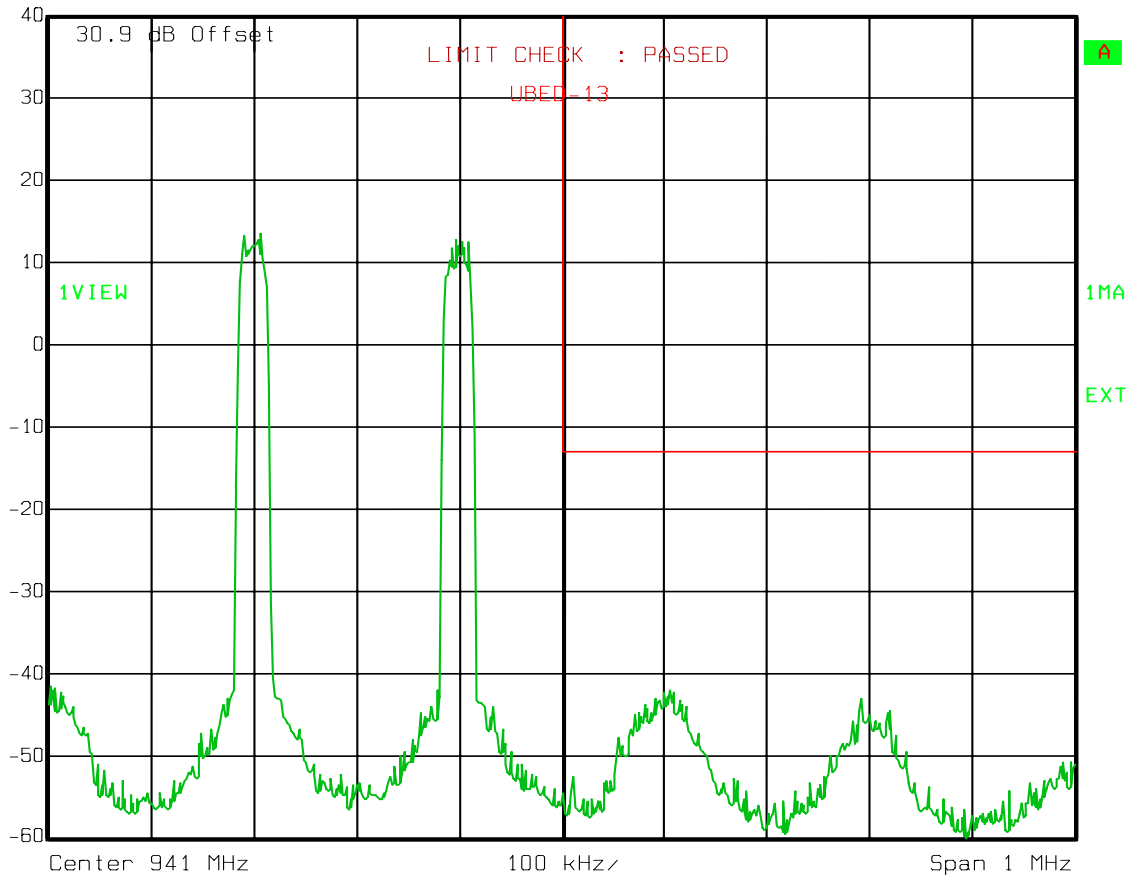


Date: 23.SEP.2010 12:54:30

Test Data – Spurious Emissions at Antenna Terminals

900 LMR
Upper Edge
iDENRef Lvl
40 dBm

RBW	300 Hz	RF Att	20 dB
VBW	300 Hz	Mixer	-10 dBm
SWT	56 s	Unit	dBm



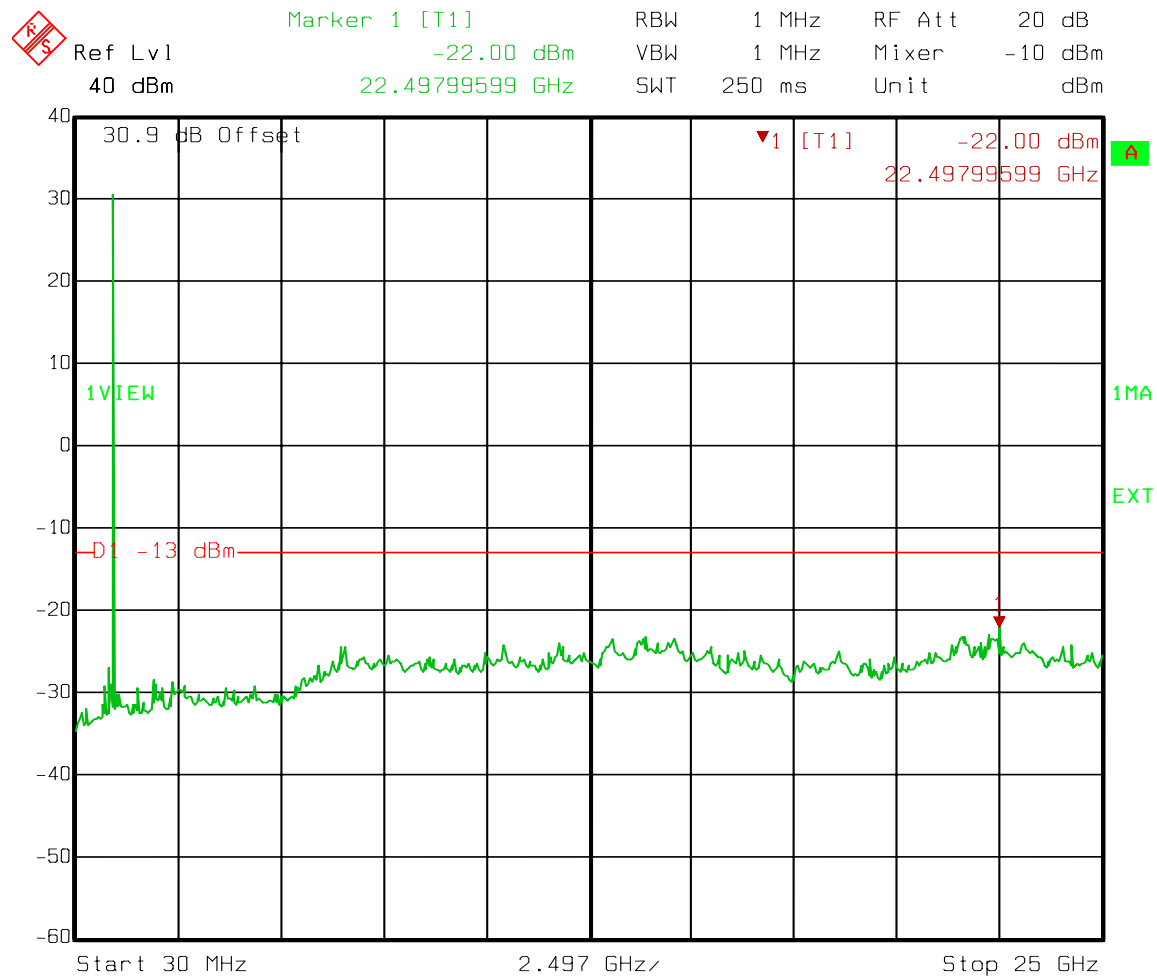
Date: 23.SEP.2010 12:56:27

Test Data – Spurious Emissions at Antenna Terminals

900 LMR

Spurs

iDEN



Date: 23.SEP.2010 12:52:16

Test Data – Spurious Emissions at Antenna Terminals

900 LMR

Low edge

APCO CQPSK

Ref Lvl
40 dBm

Marker 1 [T1]

-23.47 dBm

RBW 1 kHz

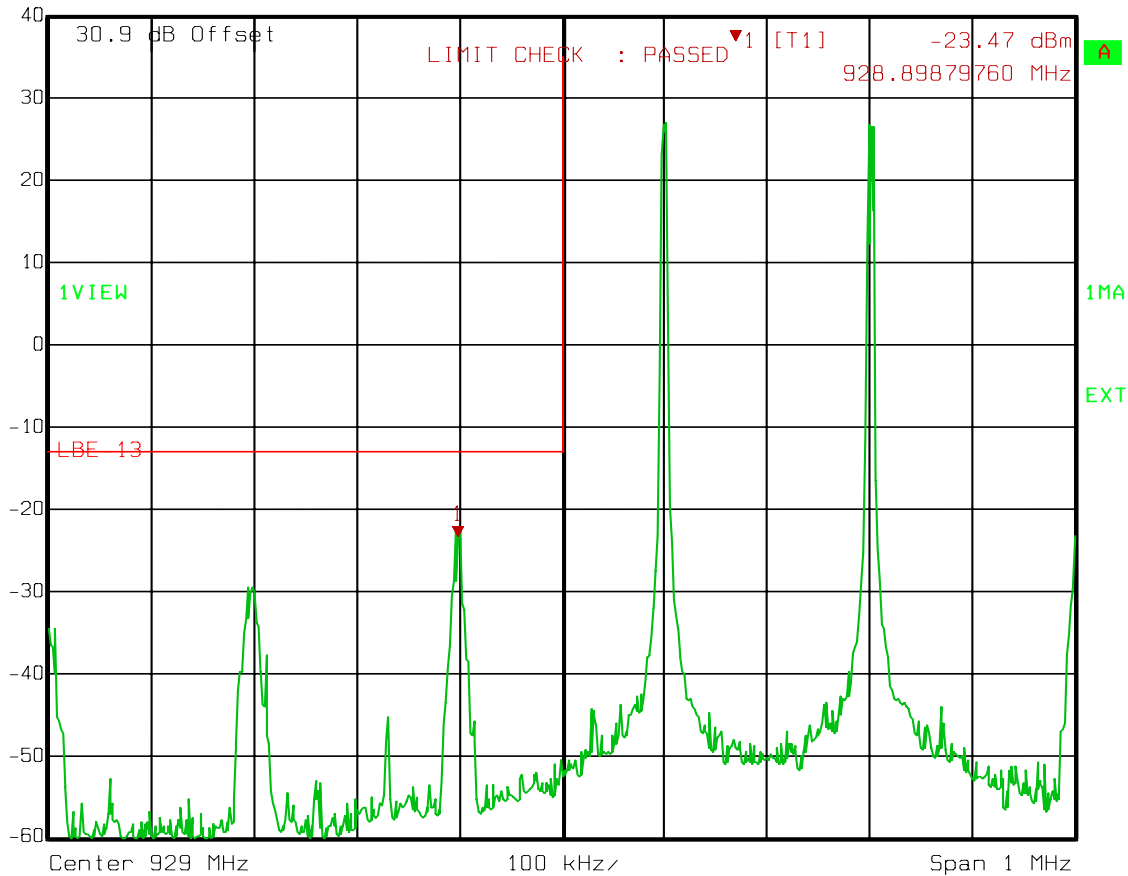
RF Att 20 dB

VBW 1 kHz

Mixer -10 dBm

SWT 2.5 s

Unit dBm



Date: 27.SEP.2010 15:20:35

Test Data – Spurious Emissions at Antenna Terminals

900 LMR

Upper Band edge

APCO CQPSK

Ref Lvl
40 dBm

Marker 1 [T1]

-21.66 dBm

941.09919840 MHz

RBW 1 kHz

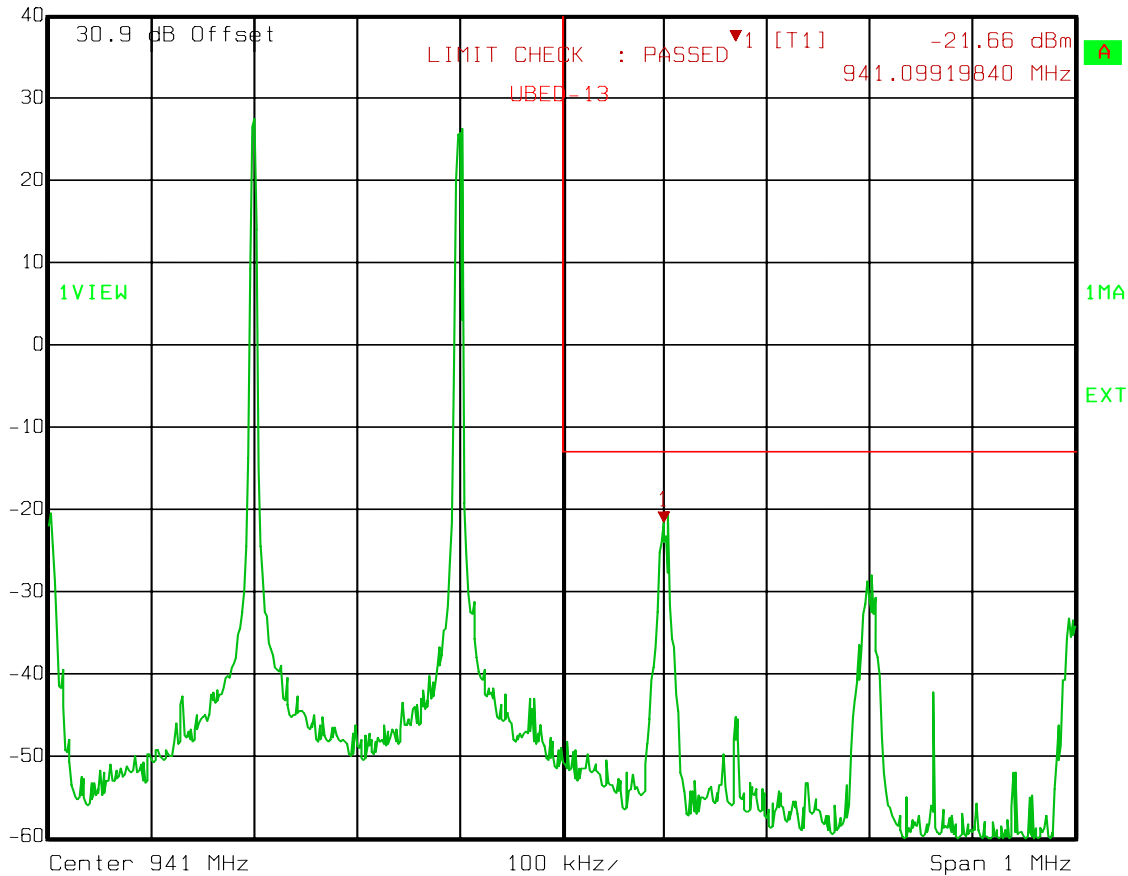
VBW 1 kHz

SWT 2.5 s

RF Att 20 dB

Mixer -10 dBm

Unit dBm



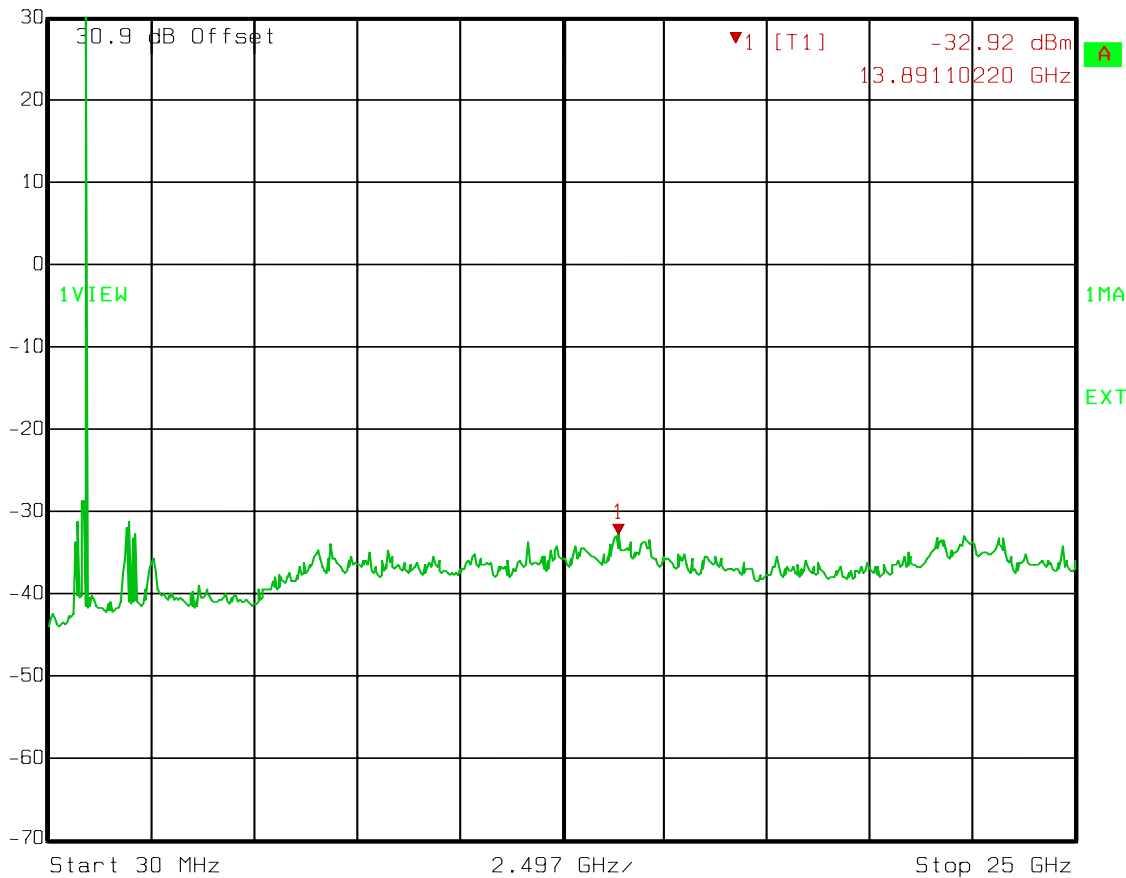
Date: 27.SEP.2010 15:21:46

Test Data – Spurious Emissions at Antenna Terminals

900 LMR
Spurious
APCO CQPSK



Ref Lvl 30 dBm
Marker 1 [T1] 13.89110220 GHz
RBW 1 MHz
VBW 1 MHz
SWT 250 ms
RF Att 10 dB
Mixer -10 dBm
Unit dBm



Date: 27.SEP.2010 15:23:08

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.993
TESTED BY: David Light	DATE: 26 August 2009 and 23 September 2010

Test Results: Complies.

Test Data: The spectrum was searched from 30 MHz to the tenth harmonic of the carrier. There were no emissions detected above the noise floor, which was at least 20 dB below the specification limit of -20 dBm.

Spectrum analyzer setting:

RBW/VBW: 100 kHz/100 kHz(30 MHz – 1 GHz), 1MHz/1MHz(Above 1 GHz)
Detector: Peak

Equipment Used: 1464-1484-1485-1016-993-791-1763

Measurement Uncertainty: +/-1.7 dB

Temperature: 22 °C

Relative Humidity: 35 %

Section 7. Test Equipment List**Test equipment used 26 August 2009**

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	01/19/09	01/20/11
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	CBU	N/A
1472	20db Attenuator DC 18 Ghz	Omni Spectra 20600-20db	NONE	CBU	N/A
1469	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/27/09	02/28/11
1484	Cable	Storm PR90-010-072	N/A	06/23/09	06/23/10
1485	Cable	Storm PR90-010-216	N/A	06/23/09	06/23/10
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	06/23/09	06/23/10
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	05/28/09	05/28/10
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/31/07	08/31/09
1763	Bilog Antenna	Schaffner CBL 6111D	22926	11/04/08	11/04/09

Test equipment used 23 September 2010

Asset Tag	Description	Manufacturer	Model	Serial #	Last Cal	Next Cal
993	Antenna, Horn	A.H. Systems	SAS-200/571	162	09-Sep-2009	09-Sep-2011
1016	Preamplifier	Hewlett Packard	8449A	2749A00159	19-Jun-2010	19-Jun-2011
1036	Spectrum Analyzer	Rohde & Schwartz	FSEK30	830844/006	19-Jan-2009	19-Jan-2011
1082	Cable, 2m	Astrolab	32027-2- 29094-72TC		N/R	
1464	Spectrum Analyzer	Hewlett Packard	8563E	3551A04428	27-Feb-2009	27-Feb-2011
1469	Attenuator, 10 db, DC 18 Ghz	MCL Inc.	BW-S10W2 10db-2WDC		N/R	
1472	Attenuator, 20dB, DC 18 Ghz	Omni Spectra	20600-20db		N/R	
1484	Cable	Storm	PR90-010-072		19-Jun-2010	19-Jun-2011
1485	Cable	Storm	PR90-010-216		19-Jun-2010	19-Jun-2011
1763	Antenna, Bilog	Schaffner	CBL 6111D	22926	28-Jan-2010	28-Jan-2011
791	PreAmp	Nemko, USA			08-Mar-2010	08-Mar-2011

ANNEX A - TEST METHODOLOGIES

NAME OF TEST: RF Power Output	PARA. NO.: 2.985
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Minimum Standard: Para. No. 90.205(a). The maximum allowable station ERP is dependent upon the stations HAAT and required service area and will be authorized in accordance with Table 1 of 90.205(d).

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to an isotropic radiator. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic radiator.

**NAME OF TEST: Spurious Emissions at Antenna
Terminals**
PARA. NO.: 2.991
Minimum Standard:

90.210, Table 1

Table 1

Frequency Band (MHz)	Mask for equipment with Low Pass Filter	Mask for equipment without Low Pass Filter
Below 25	A or B	A or C
25 - 50	B	C
72 - 76	B	C
150 - 174	B, D or E	C, D or E
150 Paging only	B	C
220 - 222	F	F
421 - 512	B, D or E	C, D or E
450 paging only	B	H
806 - 821/ 851 - 866	B	G
821 - 824/ 866 - 869	B	H
896 - 901/ 935 - 940	I	J
902 - 928	K	K
929 - 930	B	G
Above 940	B	C
All other bands	B	C

MASK	Spurious Limit	FS Limit Below 1 GHz	FS Limit Above 1 GHz
A,B,C,G,H,I	-13dBm	84.4 dB μ V/m@3m	82.2 dB μ V/m@3m
D,J	-20dBm	77.4 dB μ V/m@3m	75.2 dB μ V/m@3m
E,F,K	-25dBm	72.4 dB μ V/m@3m	70.2 dB μ V/m@3m

Test Method:

 RBW: 1% of emission bandwidth in the 0 - 1 GHz range.
 1 MHz at frequencies above 1 GHz.
 VBW: $\geq$ RBW

The spectrum is searched up to 10 times the fundamental frequency.

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.989
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Minimum Standard: Not defined. Input/Output

Method Of Measurement:

Analog

Spectrum analyzer settings:

RBW=VBW=300 Hz

Span: 100 kHz

Sweep: Auto

iDEN

RBW=VBW= 300 Hz

Span: 100 kHz

Sweep: Auto

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.993
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Minimum Standard: Para. No. 90.210, see table 1 for applicable mask.

Method Of Measurement: ANSI/TIA -603-C-2004

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to an isotropic radiator. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic radiator.

NAME OF TEST: Frequency Stability**PARA. NO.: 2.995**

Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain

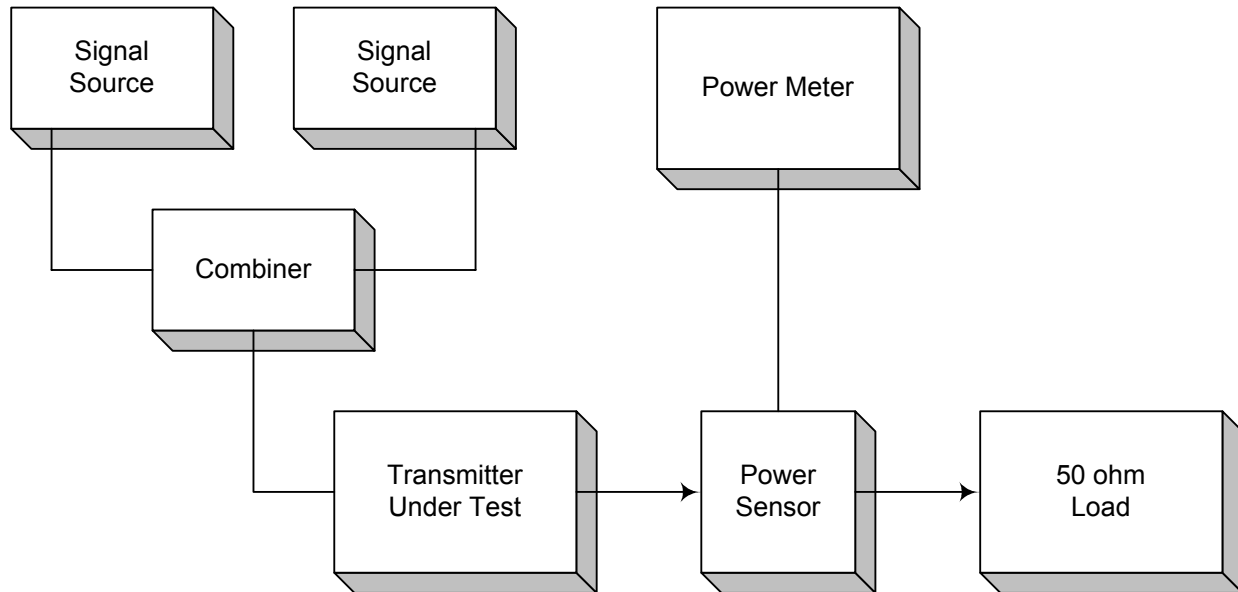
within the assigned frequency below in ppm.

Table 2

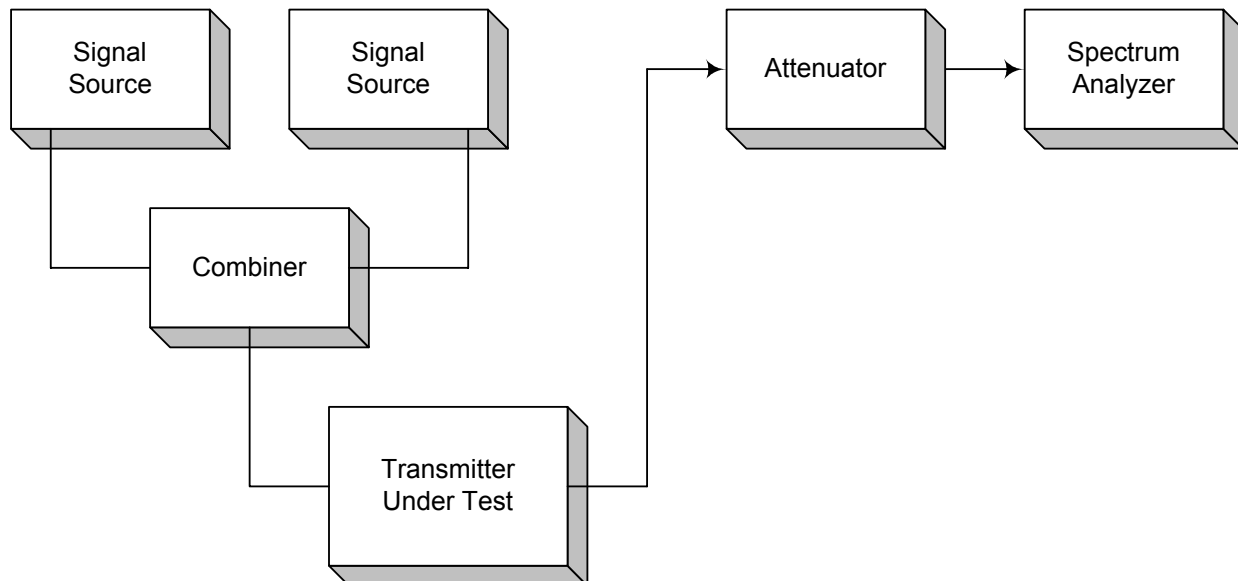
Frequency Band (MHz)	Fixed And Base Stations	Mobile Stations	
		> 2 Watts o/p pwr	< 2 Watts o/p pwr
Below 25	100	100	200
25 - 50	20	20	50
72 - 76	5	-	50
150 - 174	5	5	5
220 - 222	0.1	1.5	1.5
421 - 512	2.5	5	5
806 - 821	1.5	2.5	2.5
821 - 824	1.0	1.5	15
851 - 866	1.5	2.5	2.5
866 - 869	1.0	1.5	1.5
869 - 901	0.1	1.5	1.5
902 - 928	2.5	2.5	2.5
929 - 930	1.5	-	-
935 - 940	0.1	1.5	1.5
1427 - 1435	300	300	300
Above 2450	-	-	-

ANNEX B - TEST DIAGRAMS

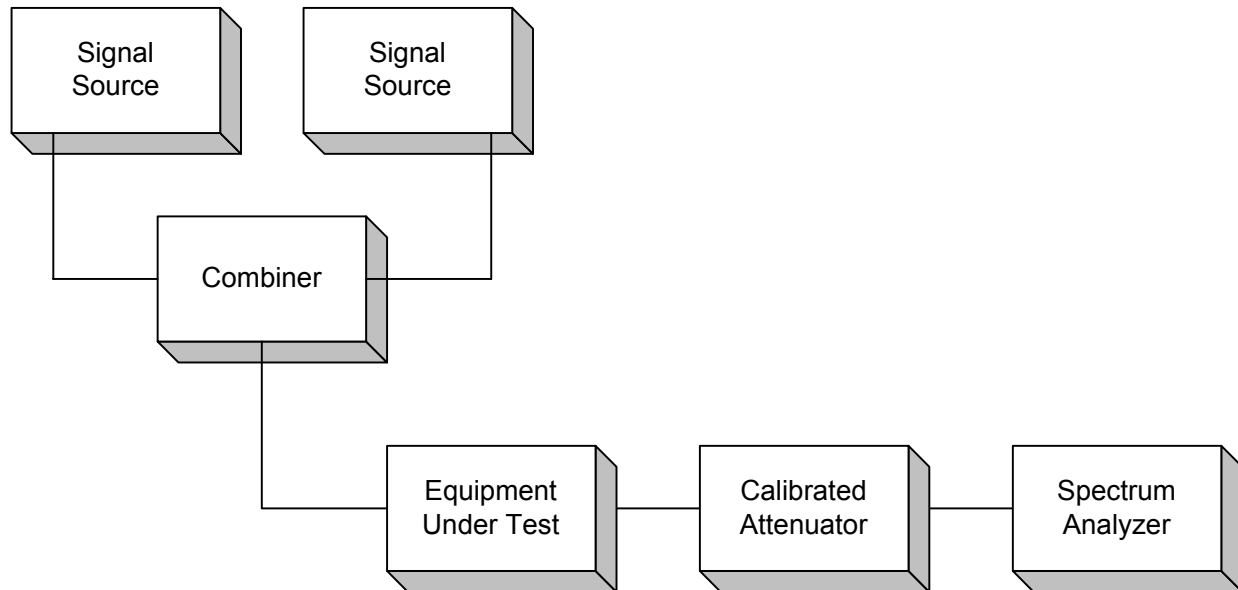
Para. No. 2.985 - R.F. Power Output



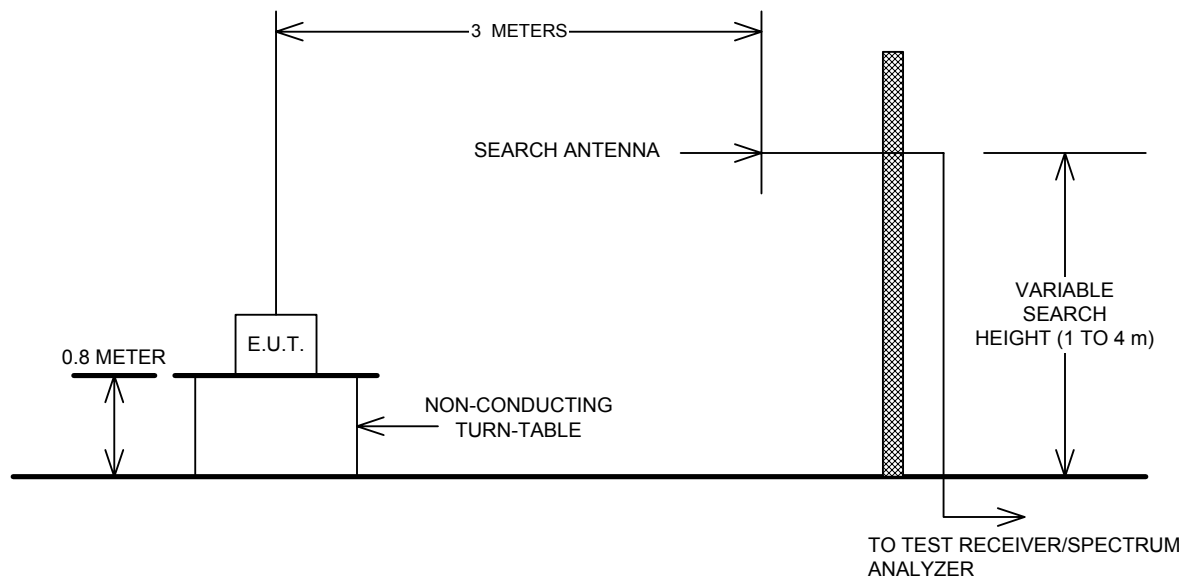
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

