



Nemko Test Report: 1906RUS1

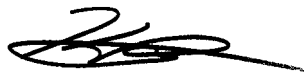
Applicant: Fiber-Span
111 Corporate Blvd, S.
Plainfield, NJ 07080
USA

Equipment Under Test: FS31X-1.9-60-2-RM
(E.U.T.)

In Accordance With: **CFR 47, Part 24, Subpart E**
Broadband PCS Repeaters

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

TESTED BY:  **DATE:** 10 January 2007
David Light, senior Wireless Engineer

APPROVED BY:  **DATE:** 12 January 2007
Kevin Rose, Wireless Engineer

Number of Pages: 71

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EQUIPMENT: FS31X-1.9-60-2-RM

Section 1. Summary of Test Results

Manufacturer Fiber-Span

Model No.: FS31X-1.9-60-2-RM

Serial No.: A1937-5-1

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 47, Part 24, Subpart E.



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".



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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	24.232	100W	Complies
Occupied Bandwidth	2.1049	Input/Output	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	Complies
Frequency Stability	24.235		NA

Footnotes:

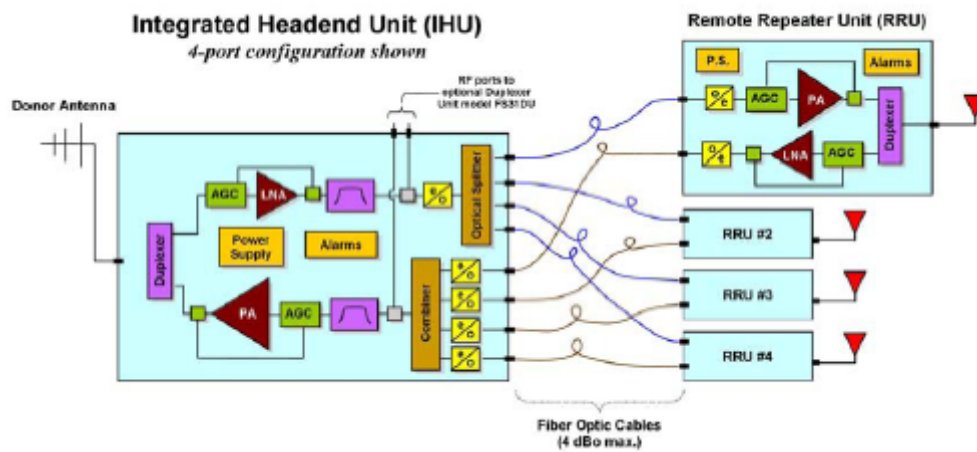
Section 2. General Equipment Specification

Supply Voltage Input:						
Frequency Bands:	Downlink:	☒	Block A :	1930 – 1945 MHz		
		☒	Block D :	1945 – 1950 MHz		
		☒	Block B :	1950 – 1965 MHz		
		☒	Block E :	1965 – 1970 MHz		
		☒	Block F :	1970 – 1975 MHz		
		☒	Block C :	1975 – 1990 MHz		
Frequency Bands:	Uplink:	☒	Block A :	1850 – 1865 MHz		
		☒	Block B :	1865 – 1870 MHz		
		☒	Block C :	1870 – 1885 MHz		
		☒	Block D :	1885 – 1890 MHz		
		☒	Block E :	1890 – 1895 MHz		
		☒	Block F :	1895 – 1910 MHz		
Type of Modulation and Designator:		CDMA (F9W)	GSM (GXW)	NADC (DXW)	W-CDMA (F9W)	EDGE (G7W)
		☒	☒	☒	☒	☒
System Gain:		43 dB				
Output Impedance:		50 ohms				
RF Output (Rated):	Uplink	$\frac{0.750}{28.8} \text{ W}$ $\frac{}{28.8} \text{ dBm}$				
RF Output (Rated):	Downlink	$\frac{0.750}{28.8} \text{ W}$ $\frac{}{28.8} \text{ dBm}$				
Frequency Translation:		F1-F1	F1-F2	N/A		
		☒	☐	☐		
Band Selection:		Software	Duplexer	Fullband		
		☐	☐	☒		

Description of EUT

Fiber optic bi-directional amplifier operating in the 1900 MHz PCS band

System Diagram



Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 24.232
TESTED BY: David Light	DATE: 08 January 2007

Test Results: Complies.**Measurement Data:**

Direction	Modulation	Output per Channel (dBm)	Composite Power (dBm)	Composite Power (W)
Uplink	CDMA	25.3	28.3	0.676
Downlink	CDMA	25.6	28.6	0.724
Uplink	TDMA	25.6	28.6	0.724
Downlink	TDMA	25.8	28.8	0.759
Uplink	EDGE	25.3	28.3	0.676
Downlink	EDGE	25.4	28.4	0.692
Uplink	GSM	25.2	28.2	0.661
Downlink	GSM	25.4	28.4	0.692
Uplink	W-CDMA	25.4	28.4	0.692
Downlink	W-CDMA	25.6	28.6	0.724

Equipment Used: 1036-1082-1469-1604-1064-1082-2071-2072**Measurement Uncertainty:** +/- 1.7 dB**Temperature:** 23 °C**Relative Humidity:** 35 %

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 24.238
TESTED BY: David Light	DATE: 19 December 2006

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1082-1469-1604-1064-1082-1659

Measurement Uncertainty: 1X10⁻⁷ ppm

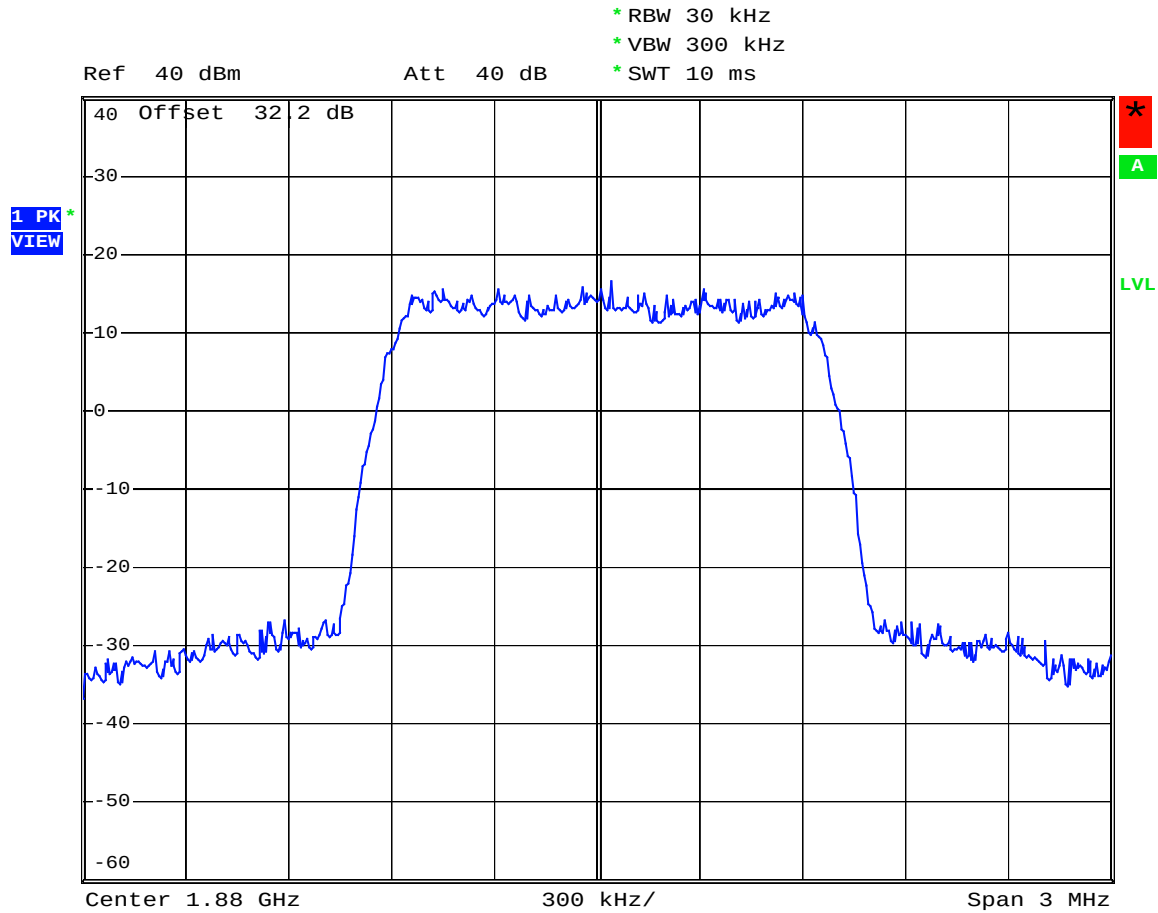
Temperature: 23 °C

Relative Humidity: 35 %

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

CDMA - Output

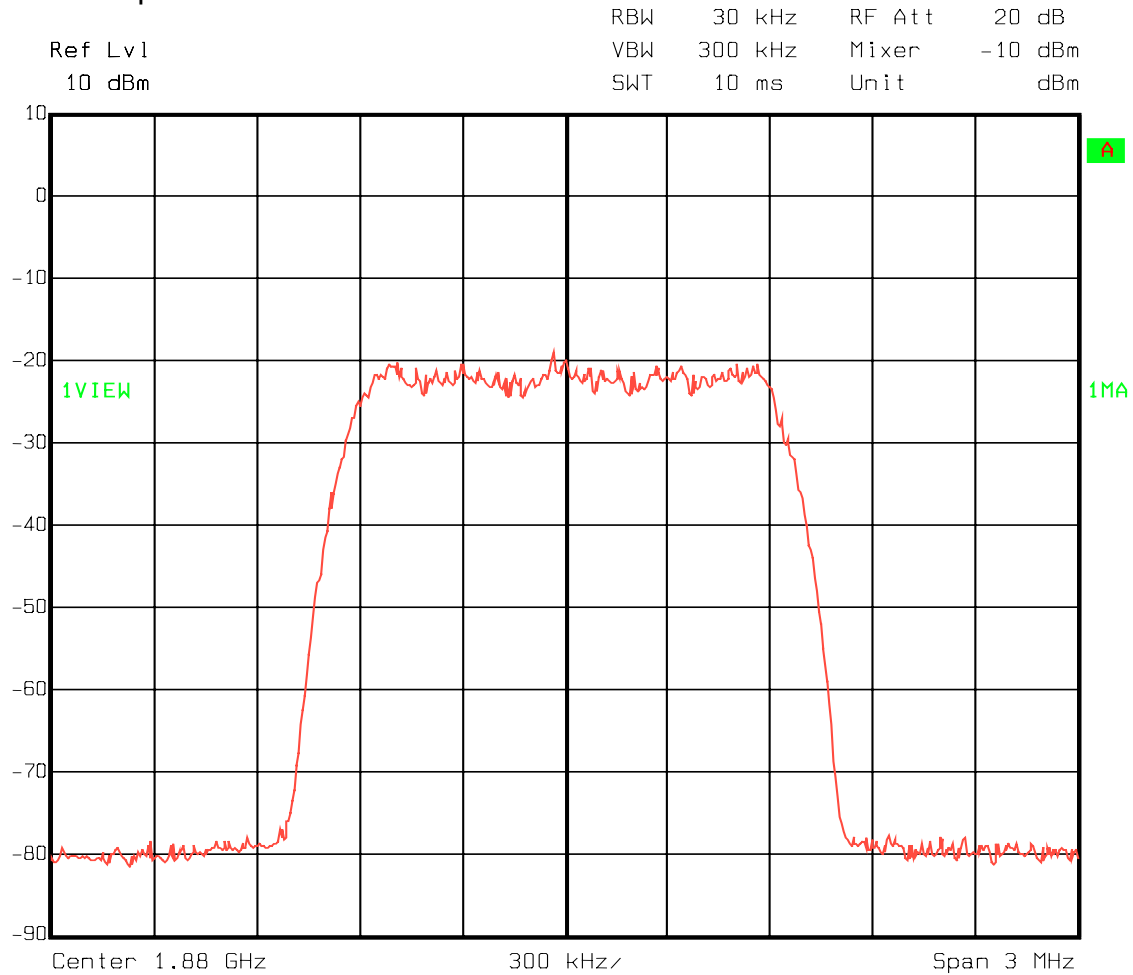


Date: 19.DEC.2006 15:17:34

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

CDMA - Input

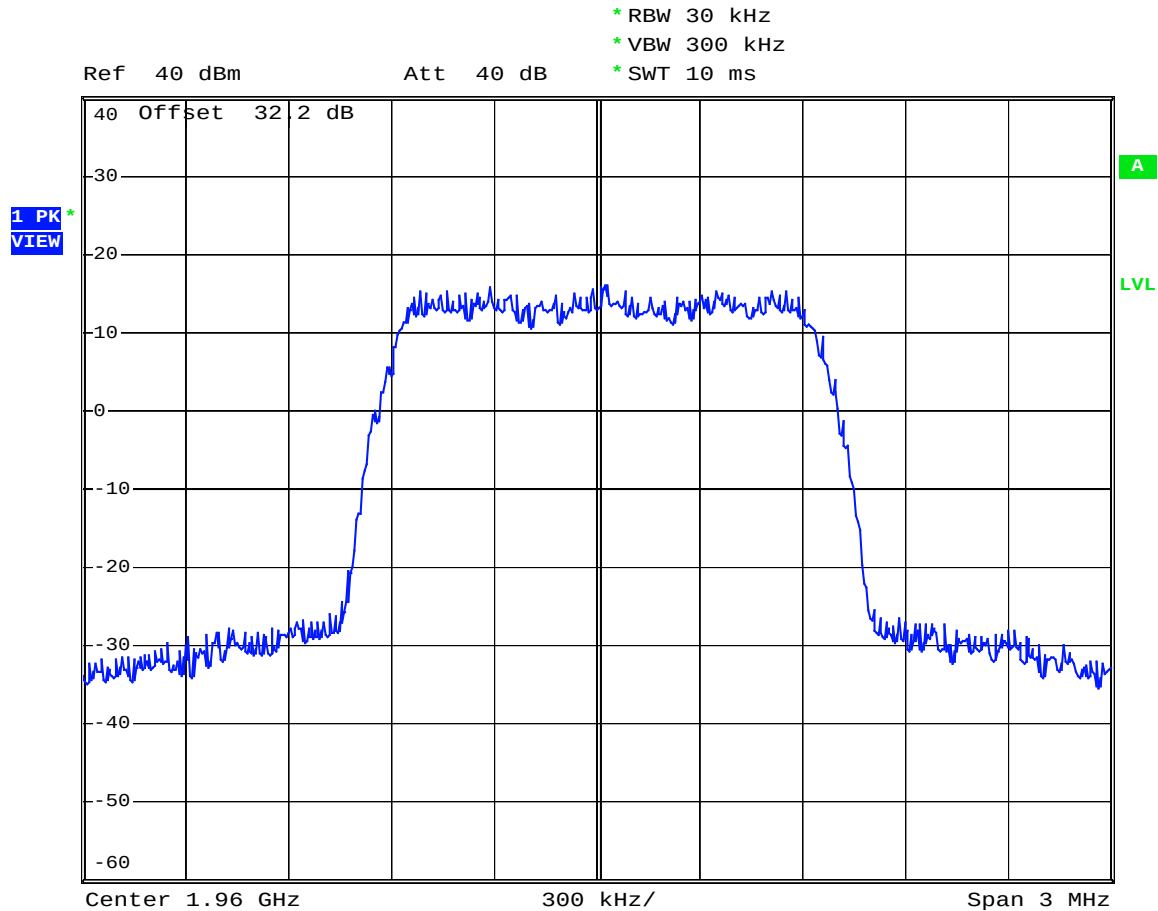


Date: 19.DEC.2006 16:08:37

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

CDMA - Output

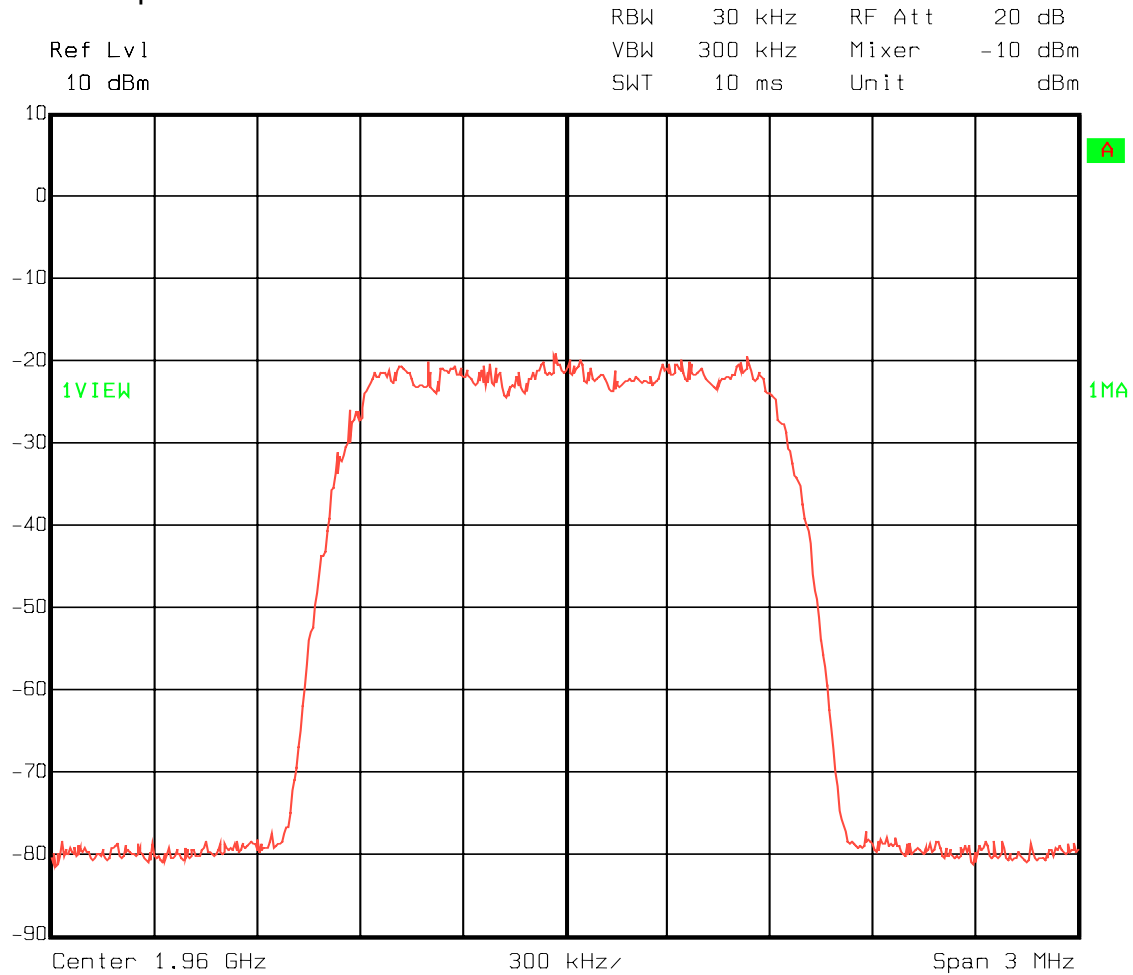


Date: 19.DEC.2006 15:21:27

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

CDMA - Input

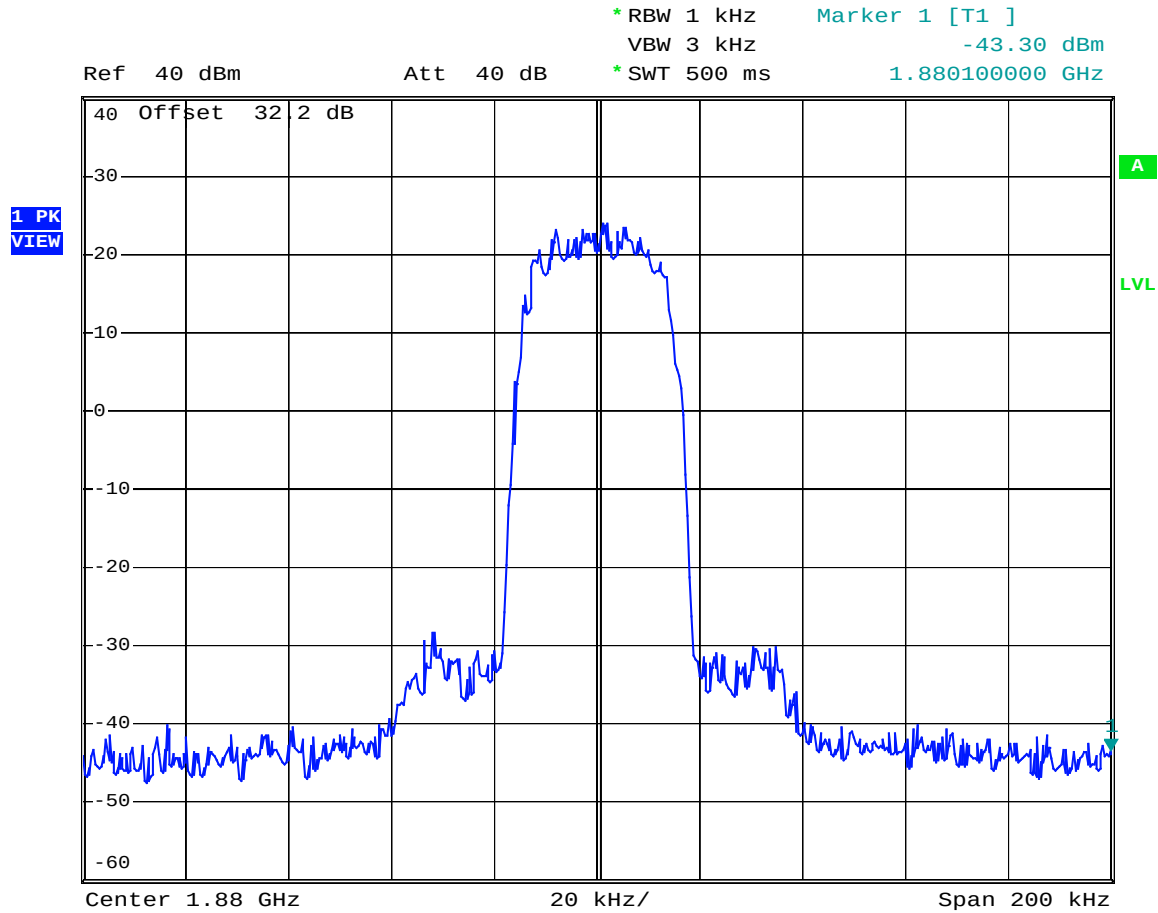


Date: 19.DEC.2006 16:10:33

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

TDMA - Output

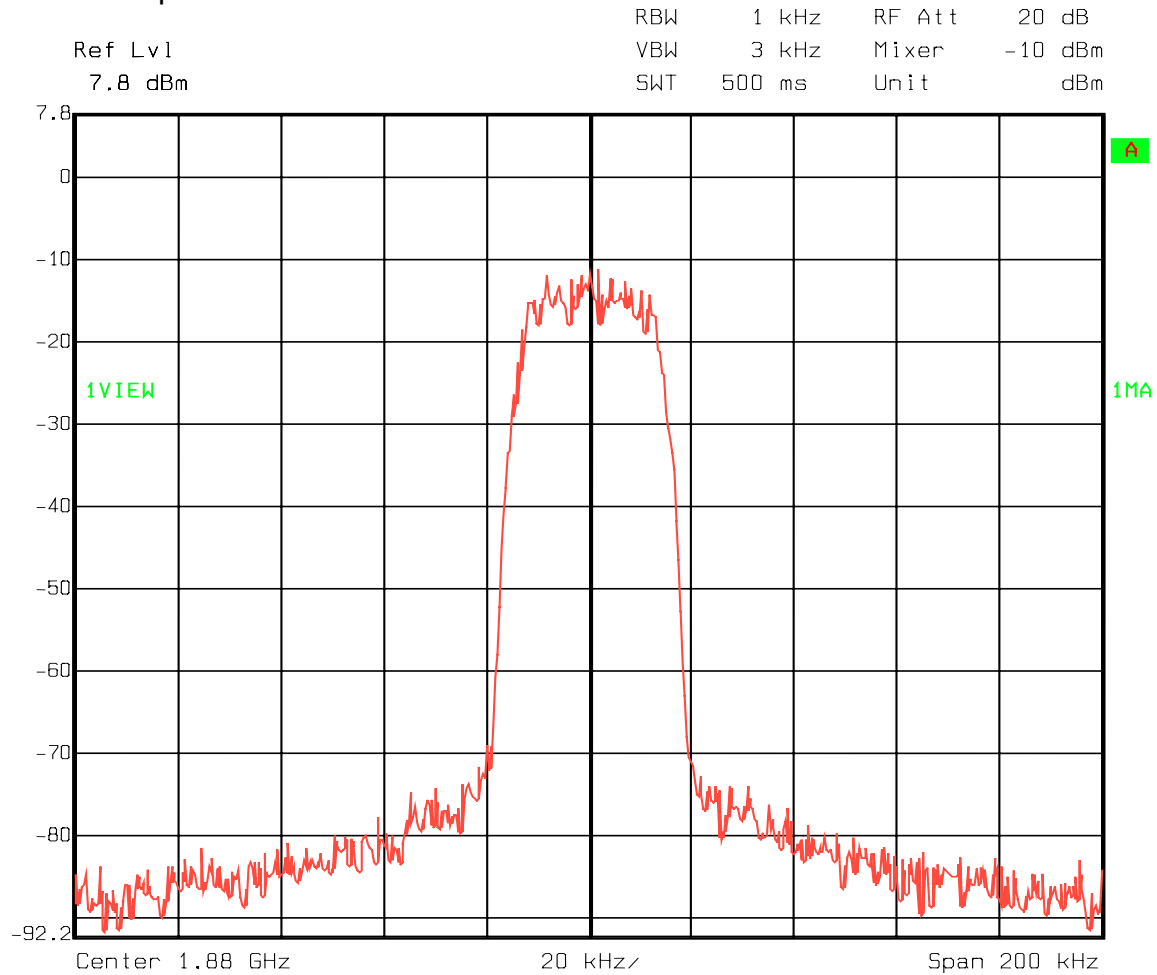


Date: 20.DEC.2006 09:24:09

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

TDMA - Input

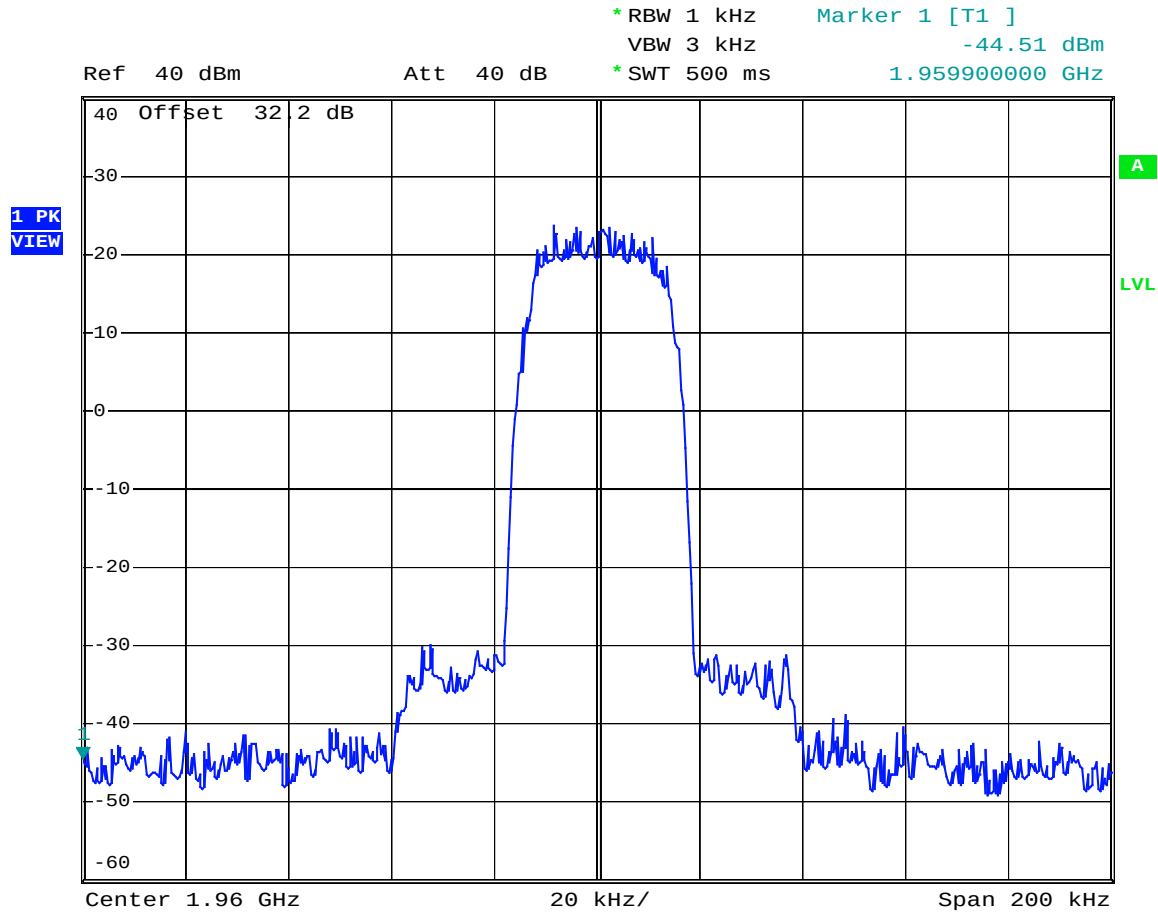


Date: 20.DEC.2006 10:13:51

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

TDMA - Output

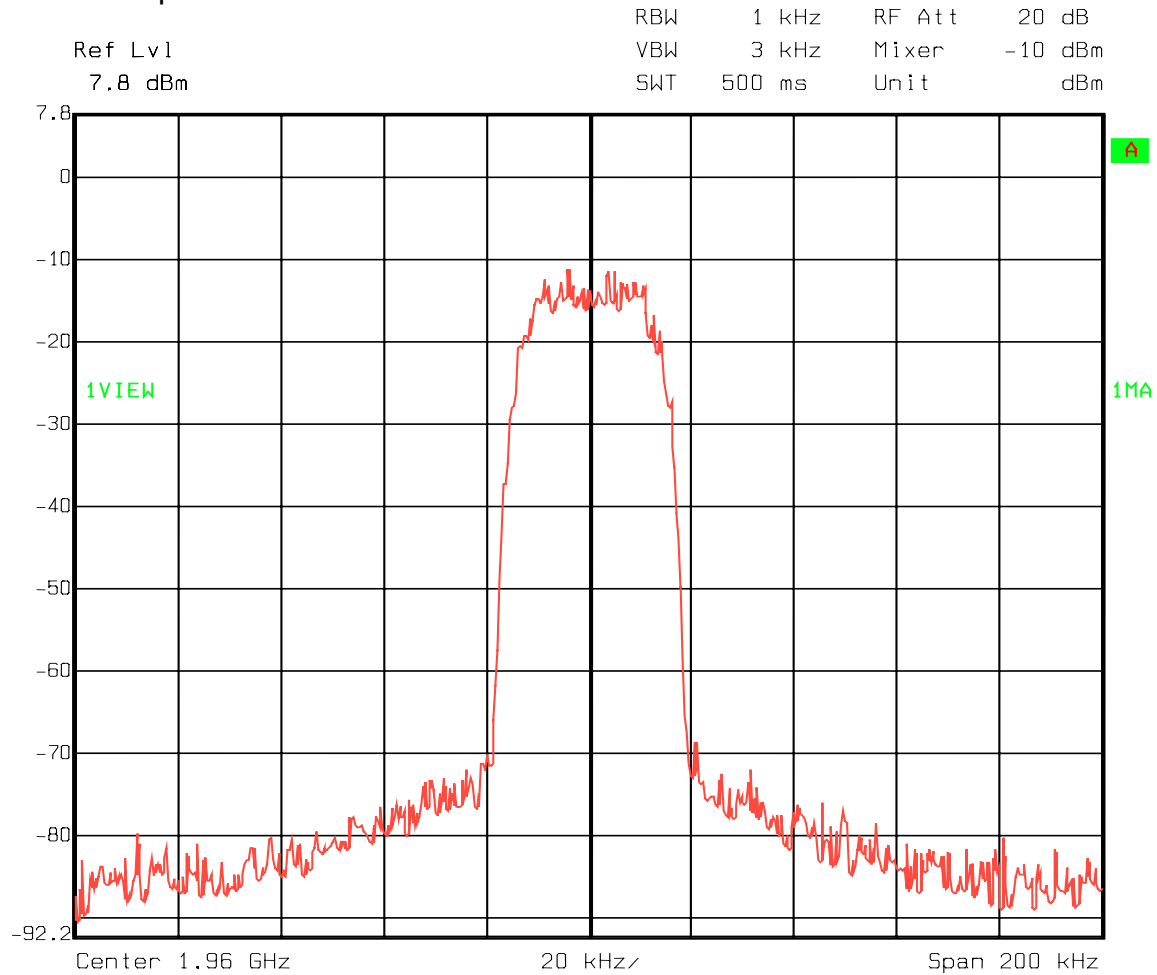


Date: 20.DEC.2006 09:26:41

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

TDMA - Input

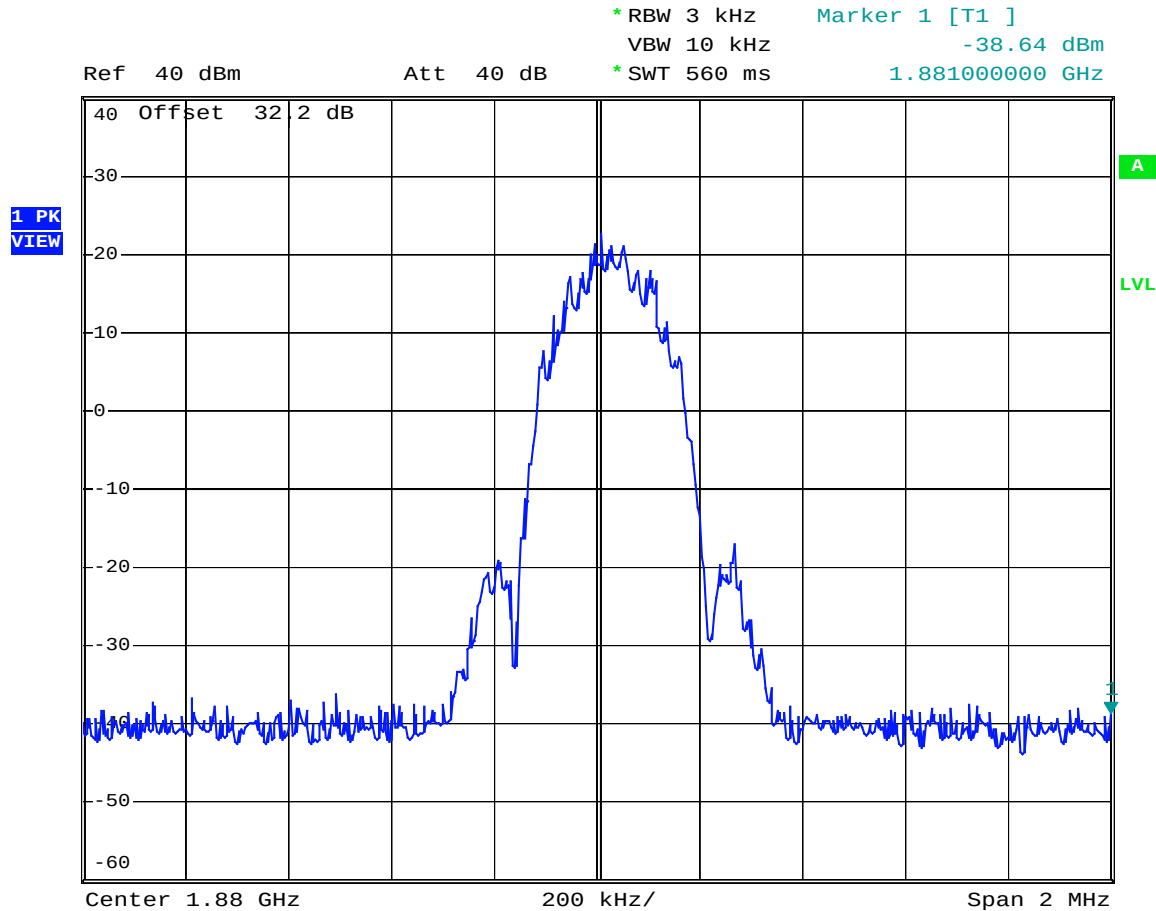


Date: 20.DEC.2006 10:15:45

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

EDGE - Output

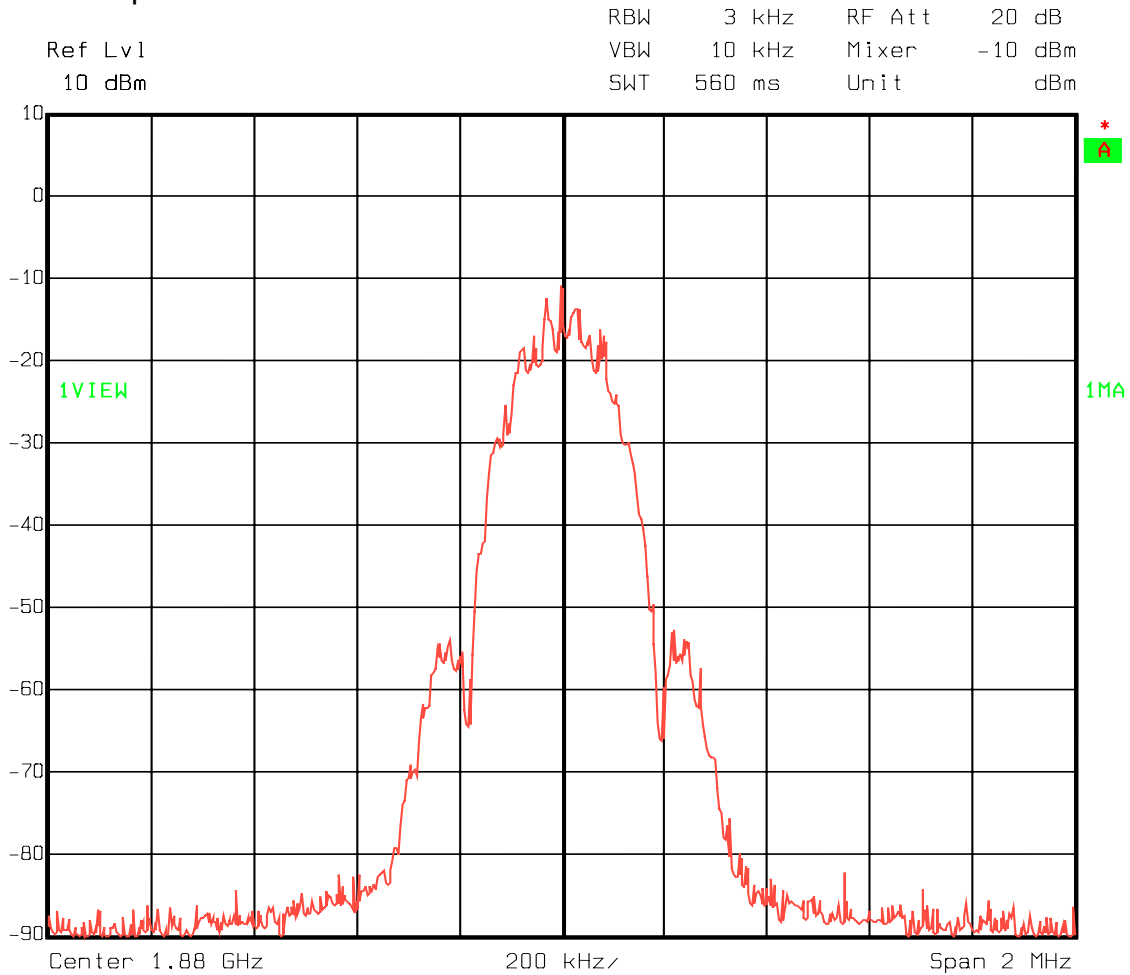


Date: 19.DEC.2006 16:44:14

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

EDGE - Input

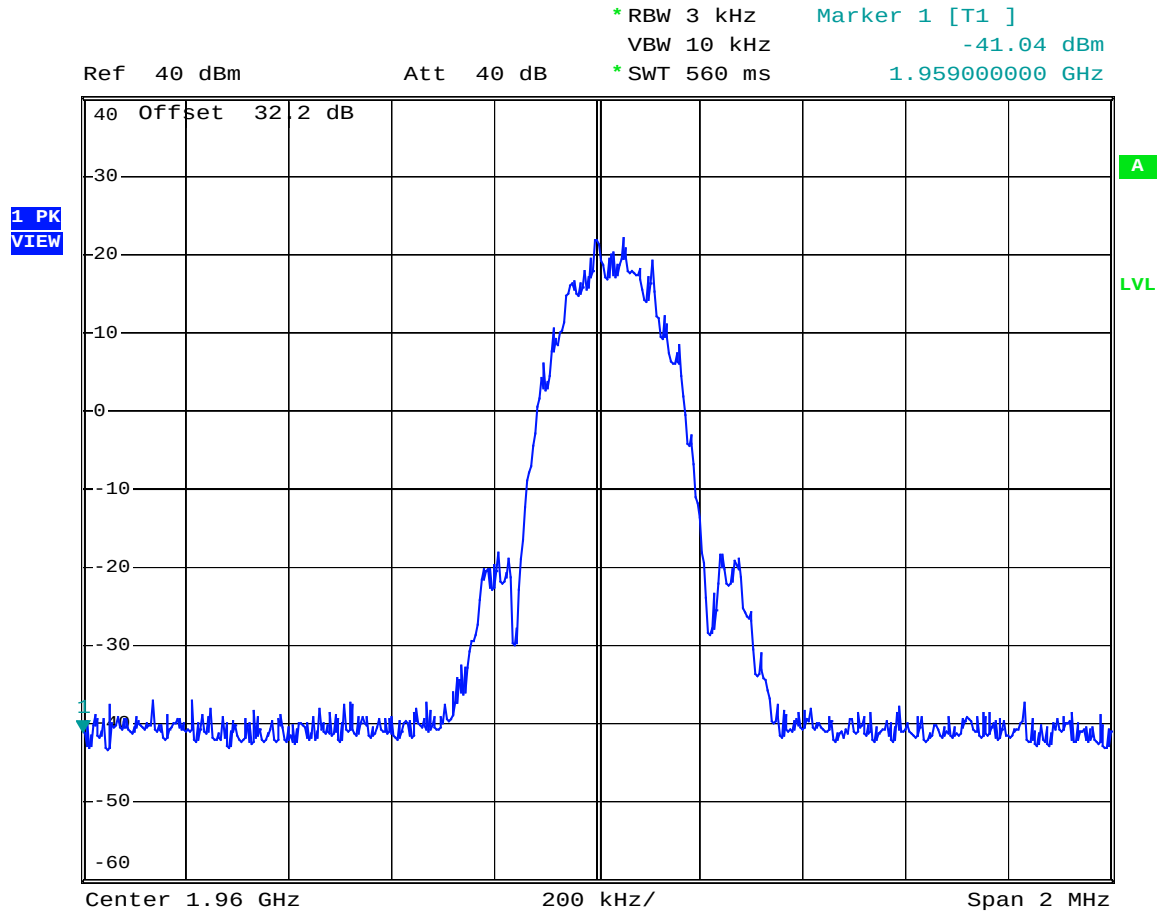


Date: 19.DEC.2006 17:33:53

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

EDGE - Output

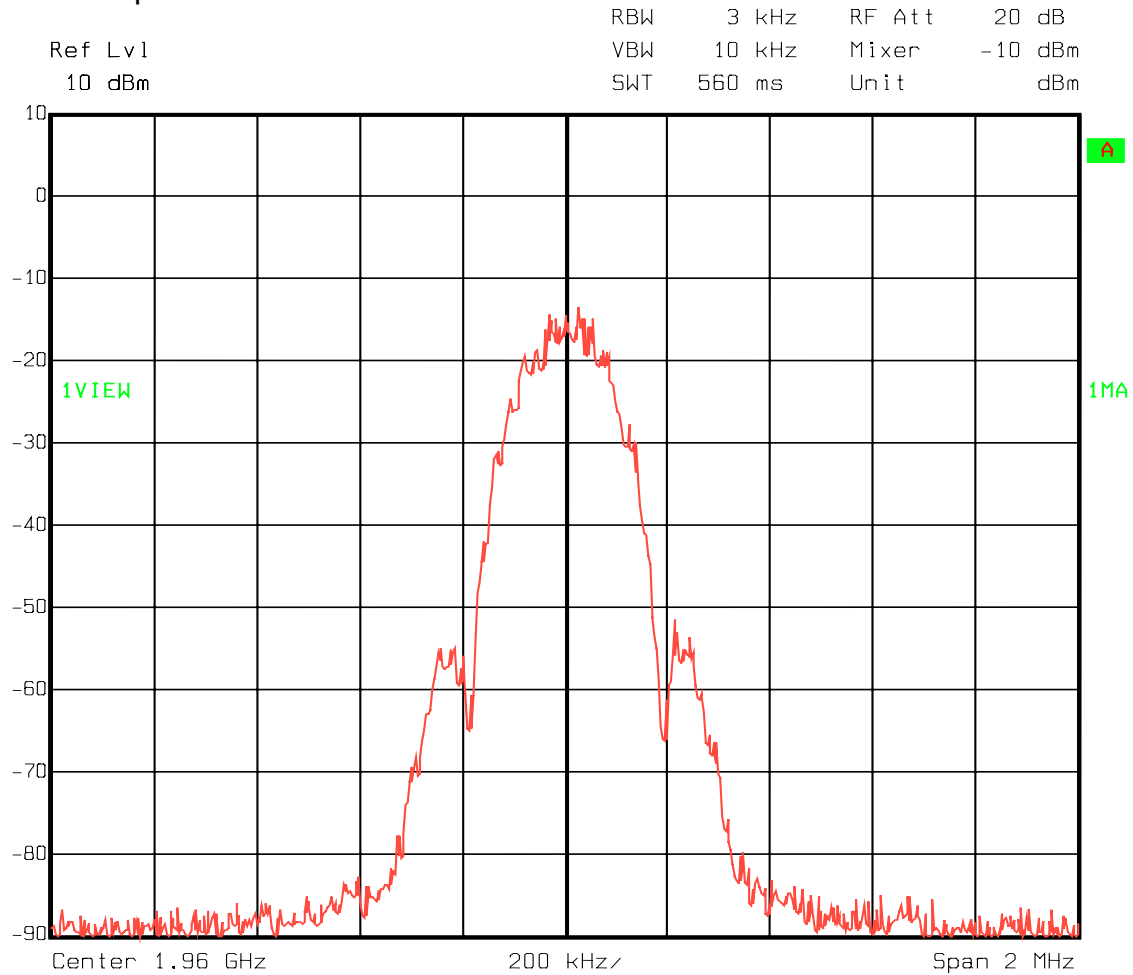


Date: 19.DEC.2006 16:45:44

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

EDGE - Input

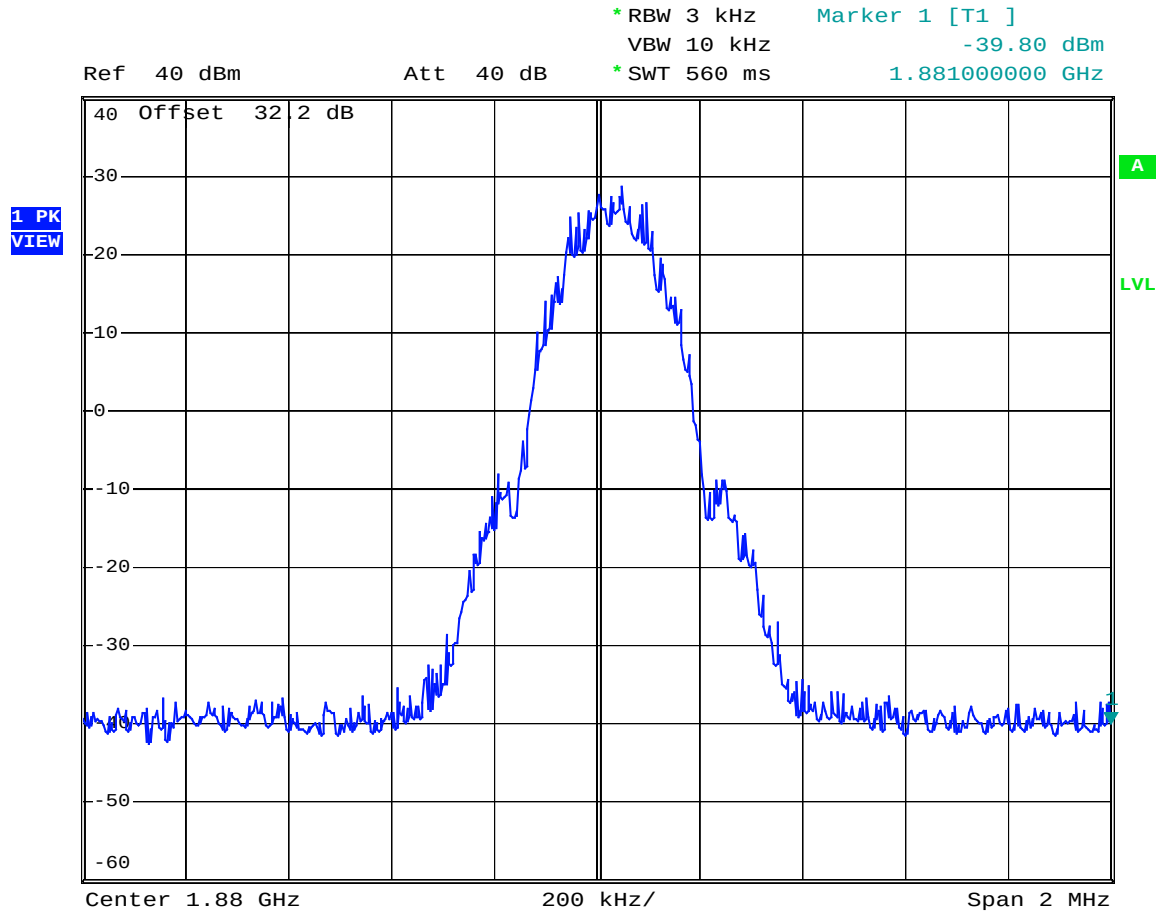


Date: 19.DEC.2006 17:34:56

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

GSM - Output

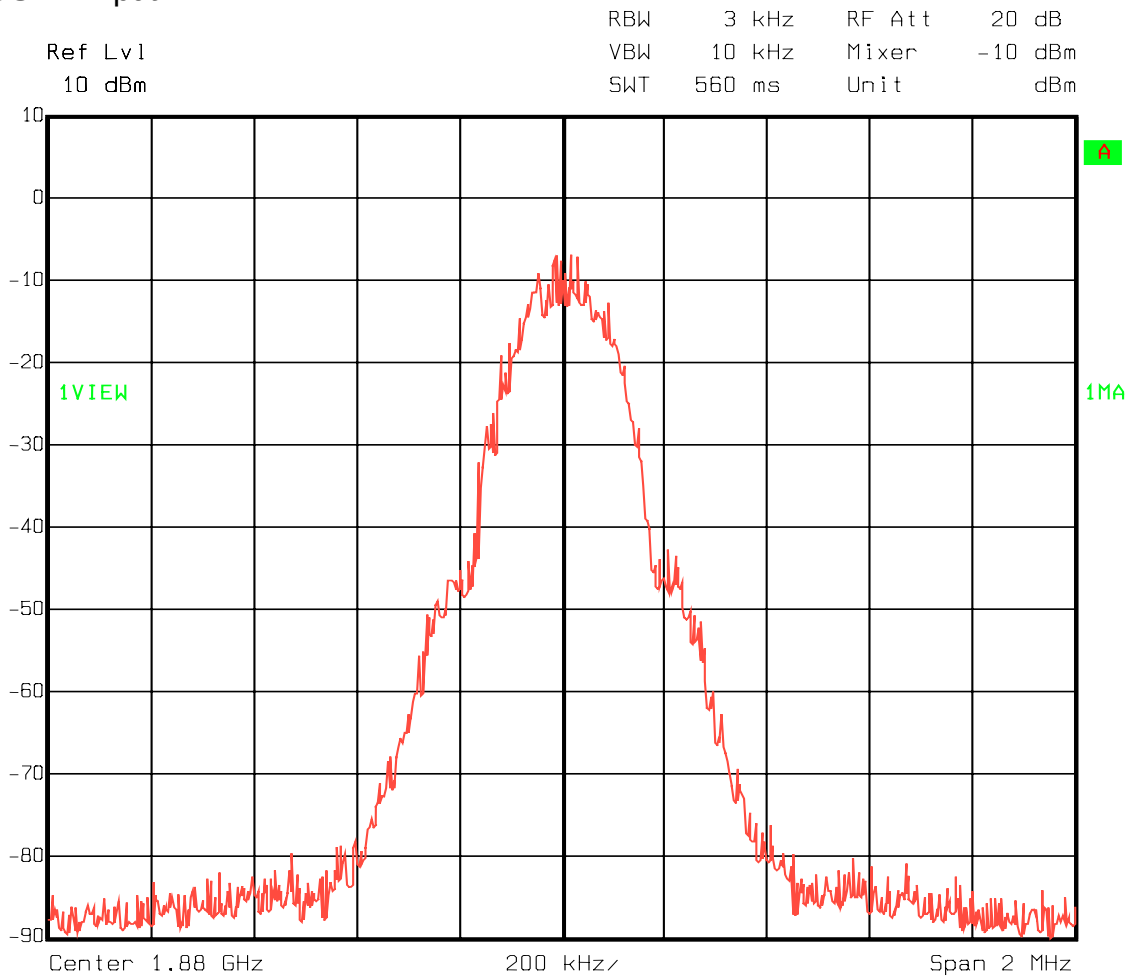


Date: 19.DEC.2006 15:57:52

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

GSM - Input

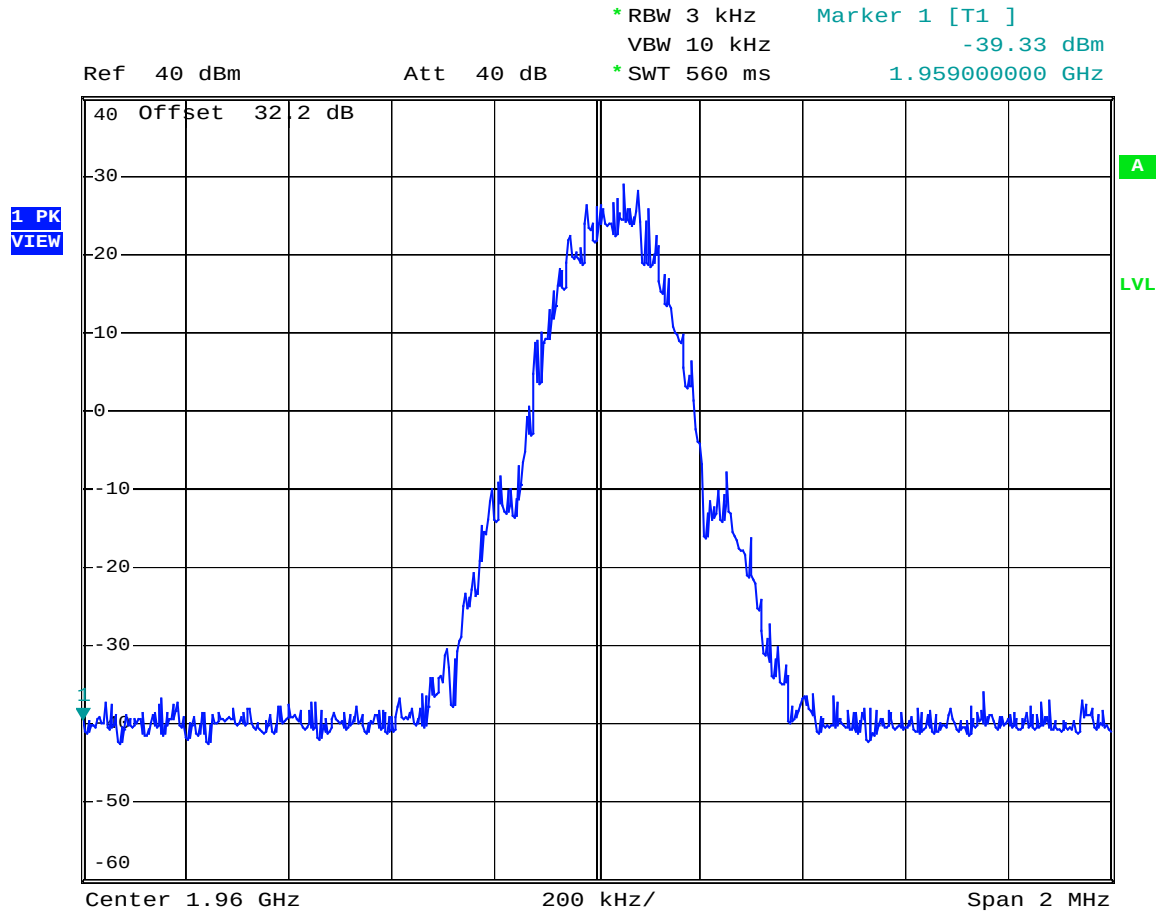


Date: 19.DEC.2006 16:46:49

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

GSM - Output

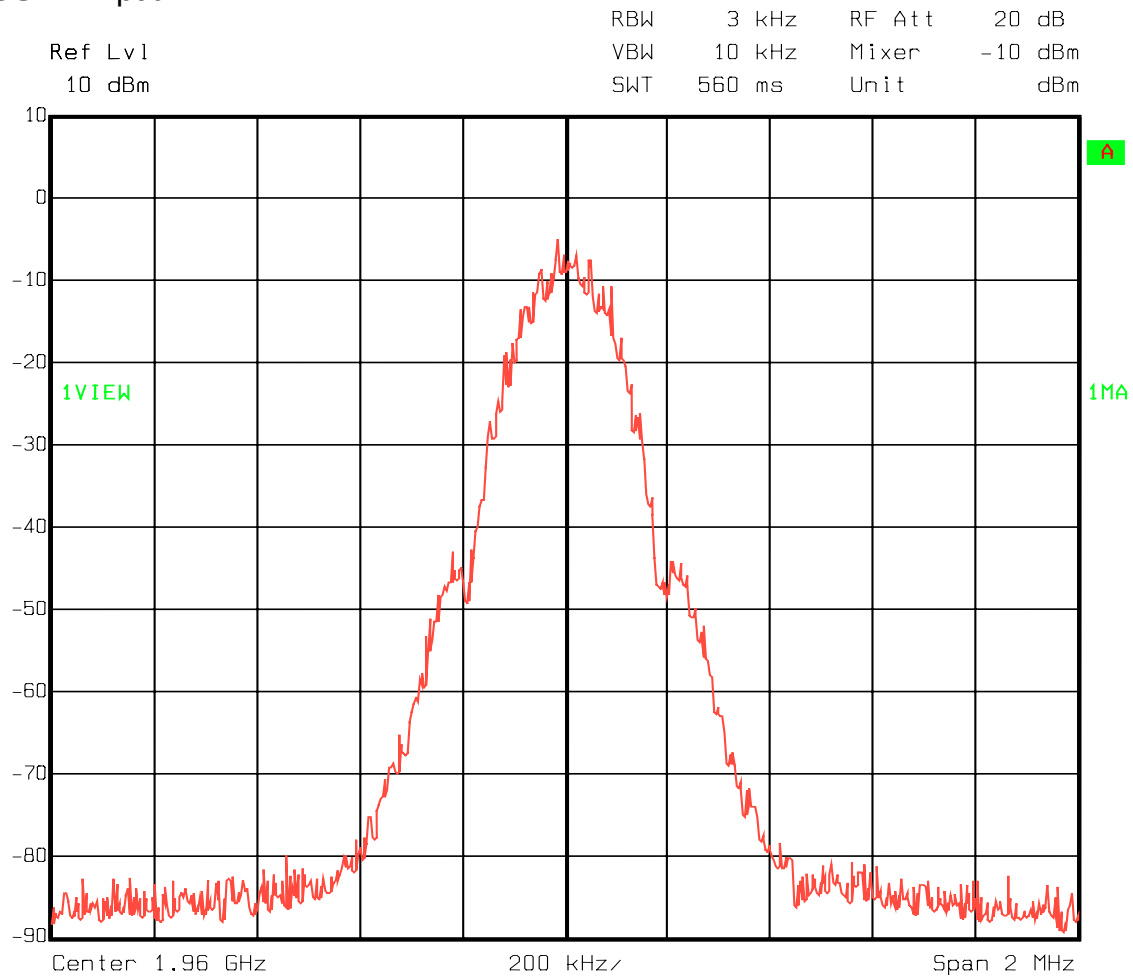


Date: 19.DEC.2006 16:01:12

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

GSM - Input

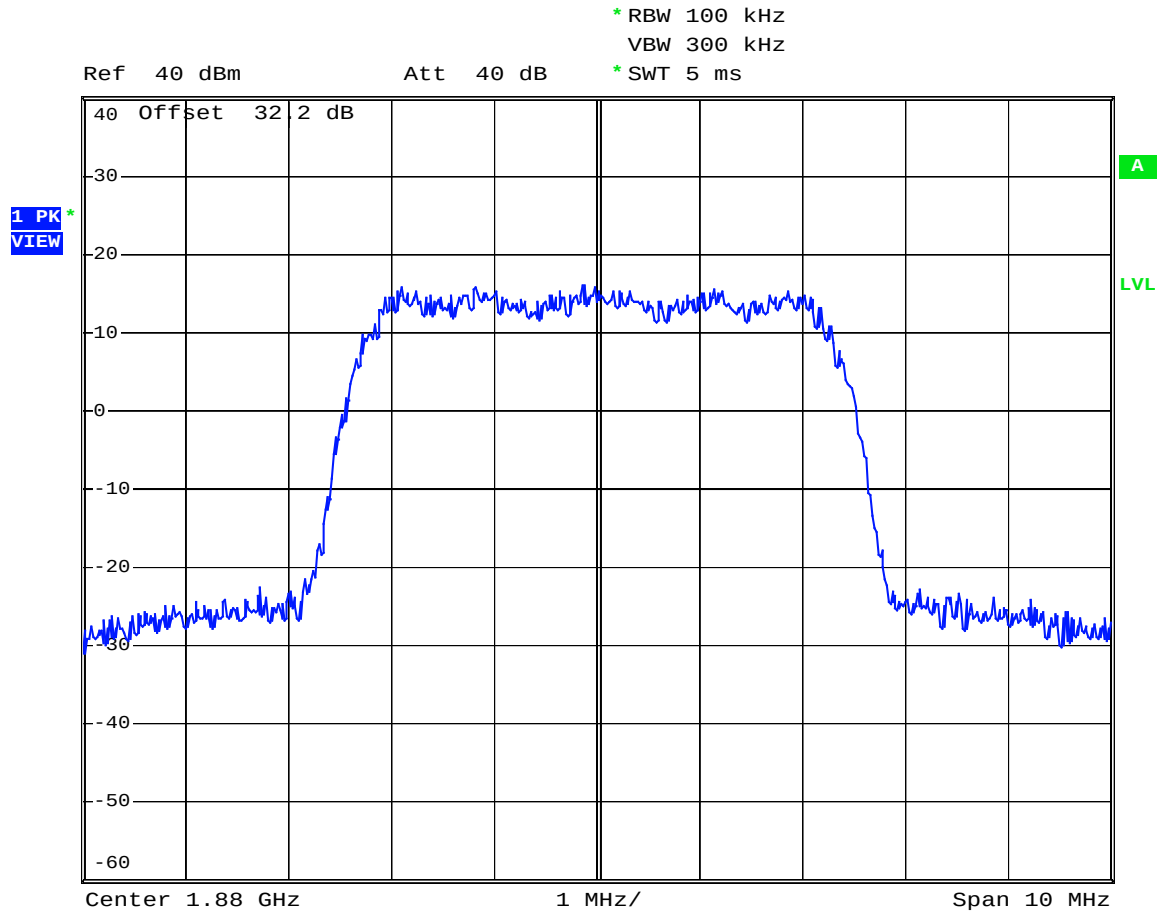


Date: 19.DEC.2006 16:50:56

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

W-CDMA - Output

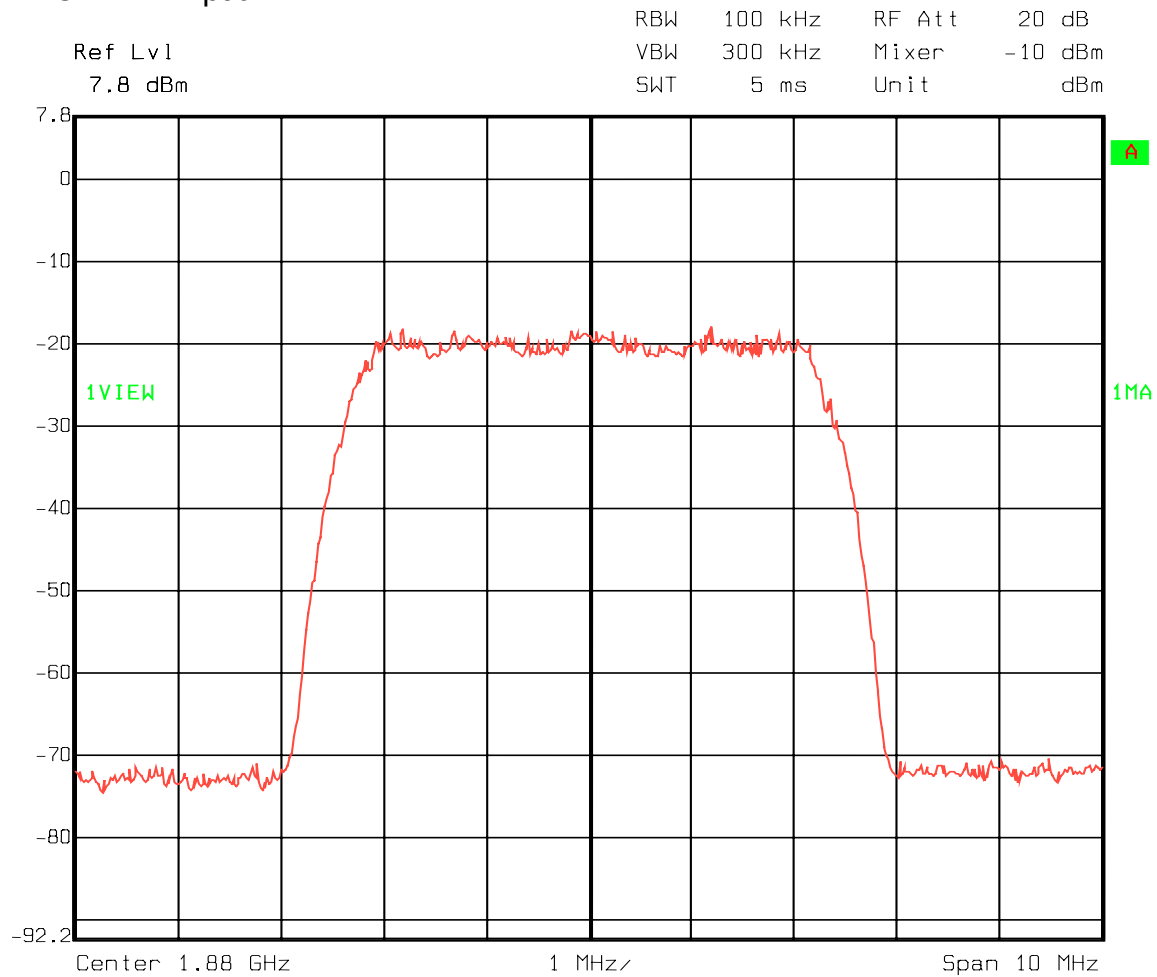


Date: 20.DEC.2006 10:15:38

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

W-CDMA - Input

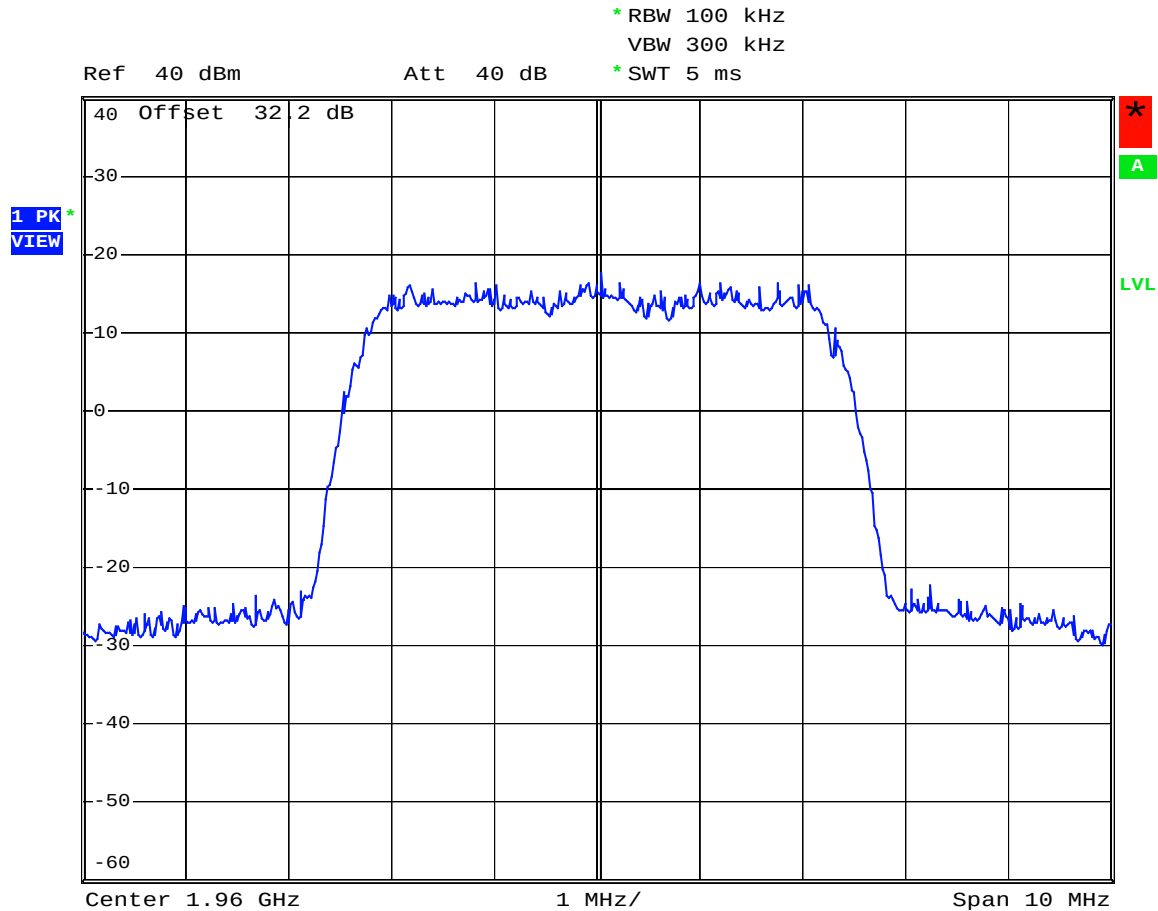


Date: 20.DEC.2006 11:04:45

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

W-CDMA - Output

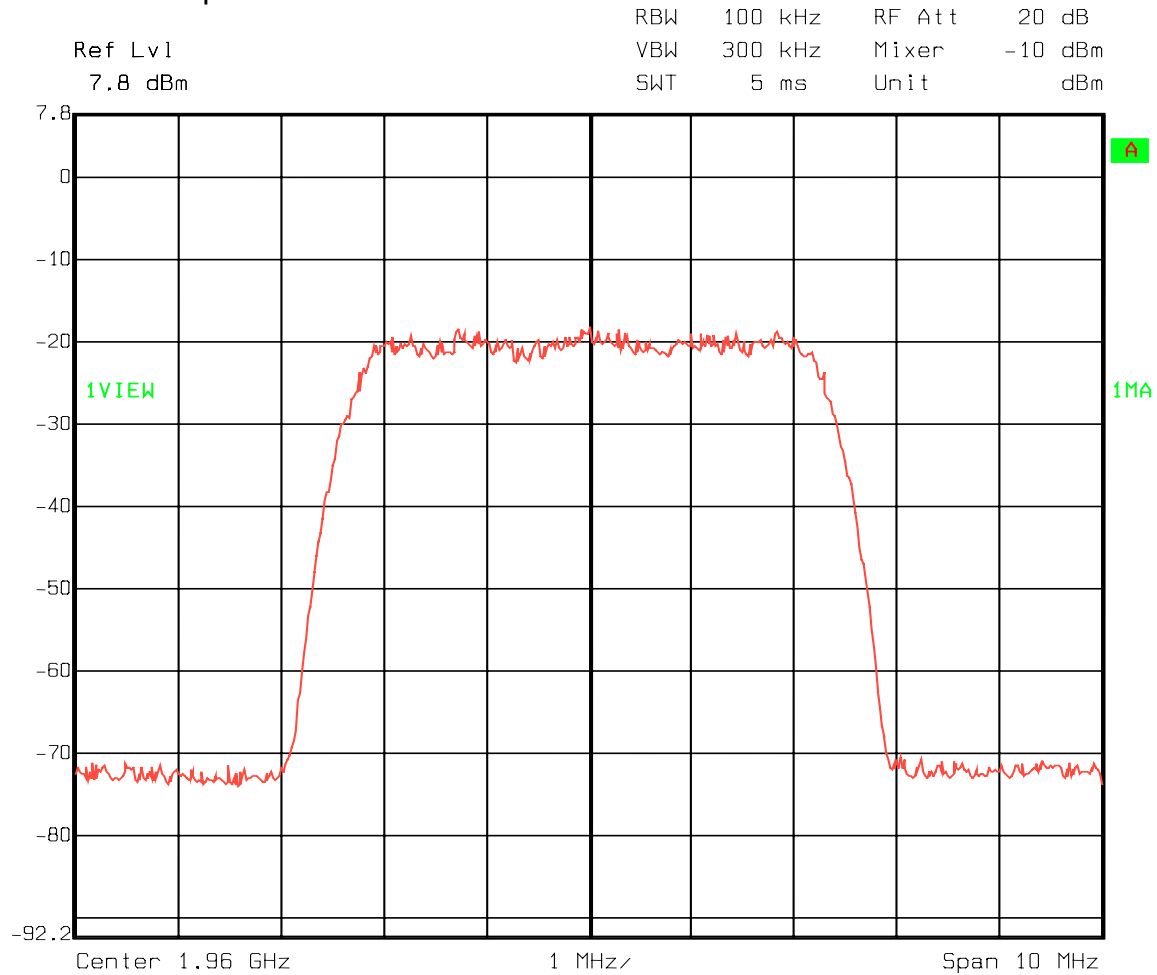


Date: 20.DEC.2006 10:16:33

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Occupied Bandwidth

W-CDMA - Input



Date: 20.DEC.2006 11:06:08

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 24.238
TESTED BY: David Light	DATE: 19 Dec. 2006

Test Results: Complies.

Test Data: See attached plot(s).

Equipment Used: 1036-1082-1469-1604-1064-1082-1659

Measurement Uncertainty: +/- 1.7 dB

Temperature: 23 °C

Relative Humidity: 35 %

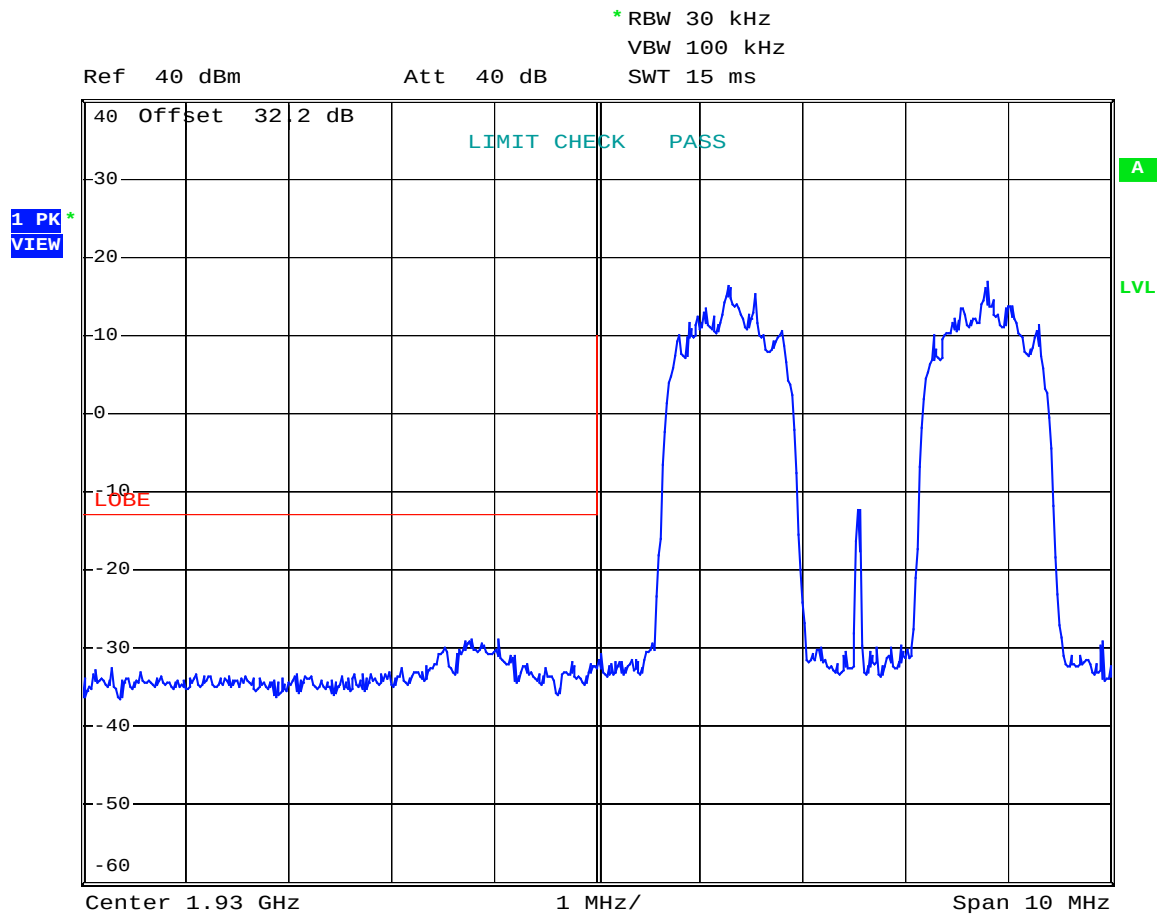
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

CDMA

Downlink



Date: 19.DEC.2006 15:35:03

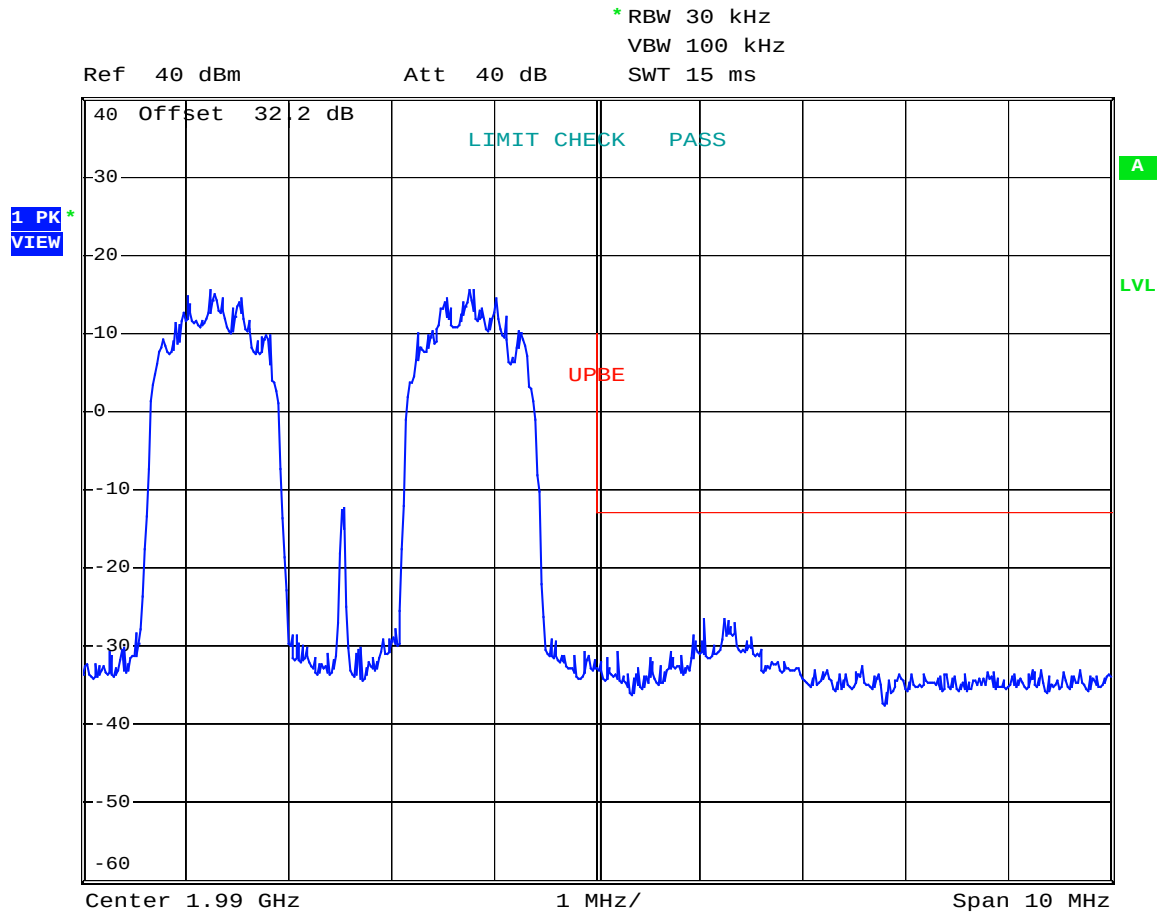
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

CDMA

Downlink



Date: 19.DEC.2006 15:34:18

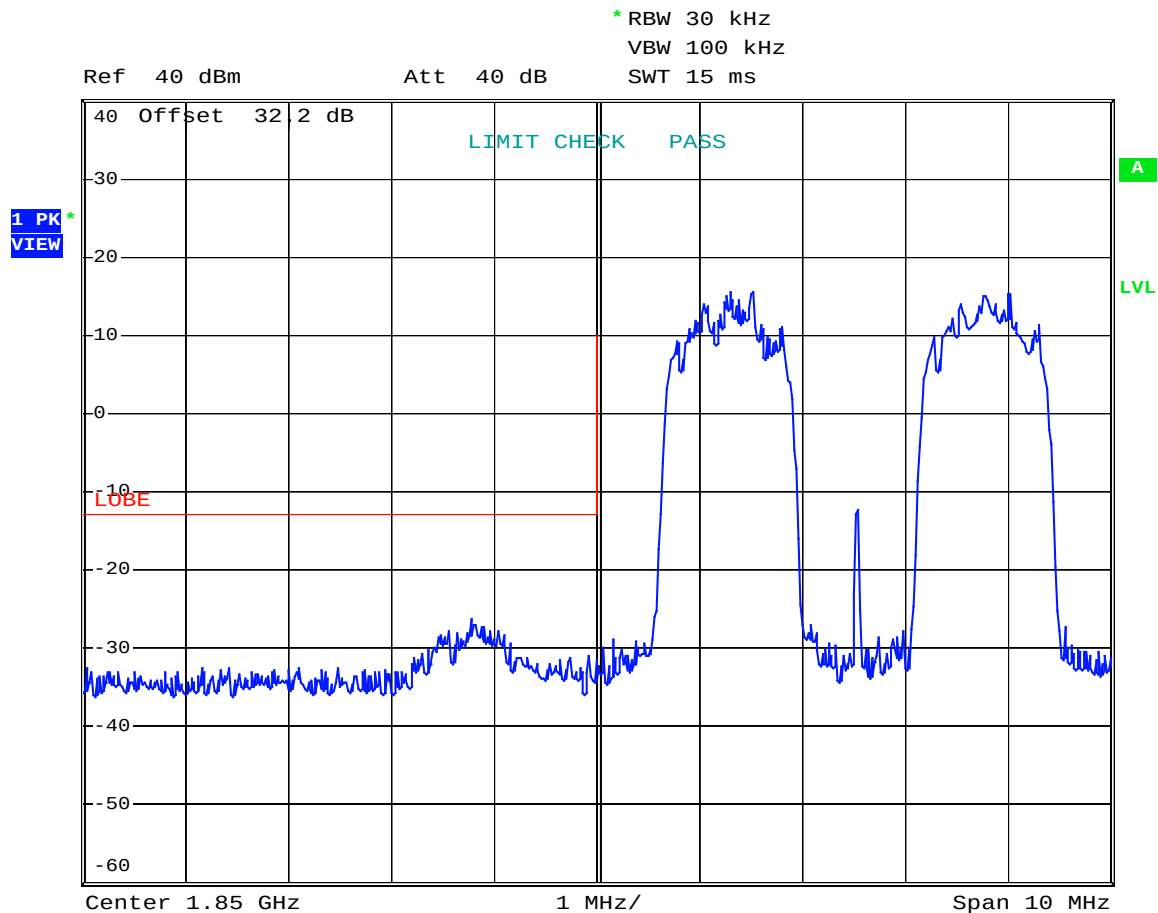
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

CDMA

Uplink



Date: 19.DEC.2006 15:31:36

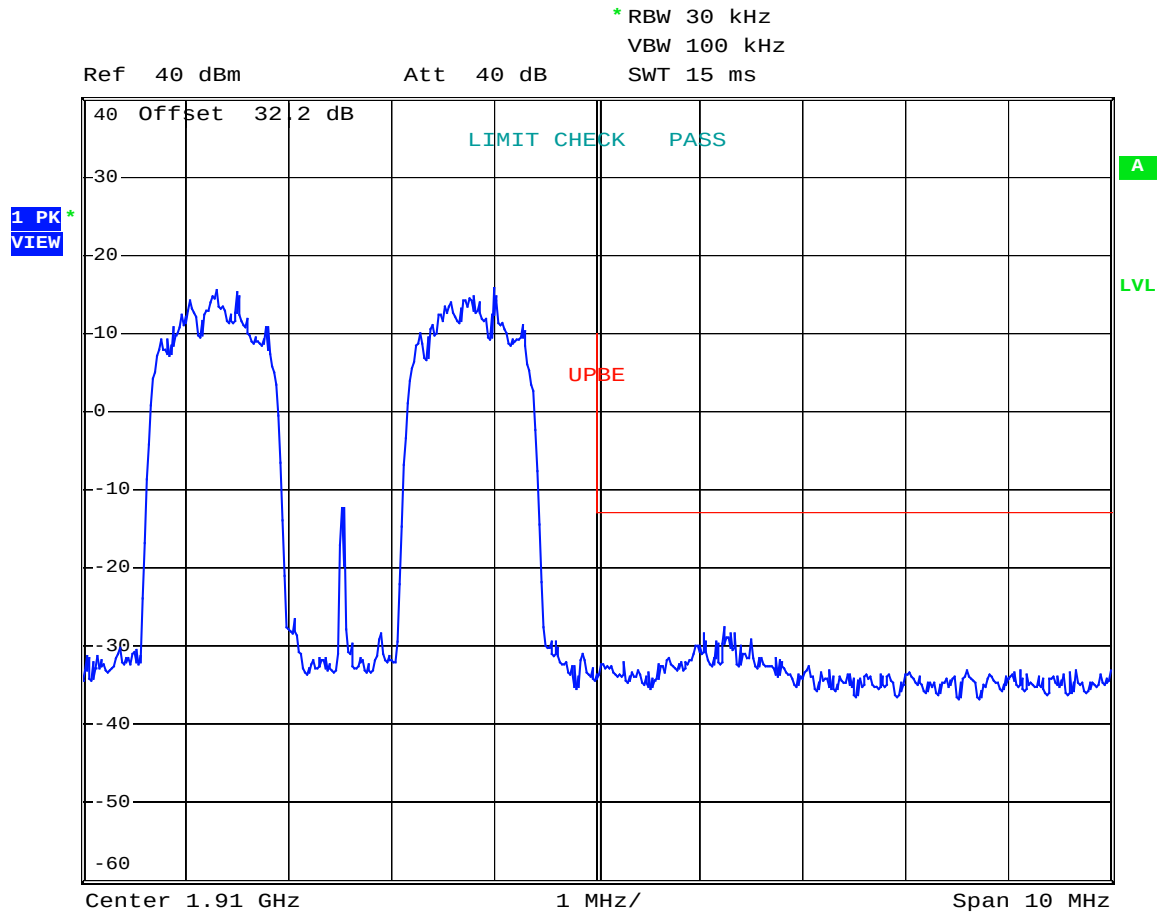
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

CDMA

Uplink

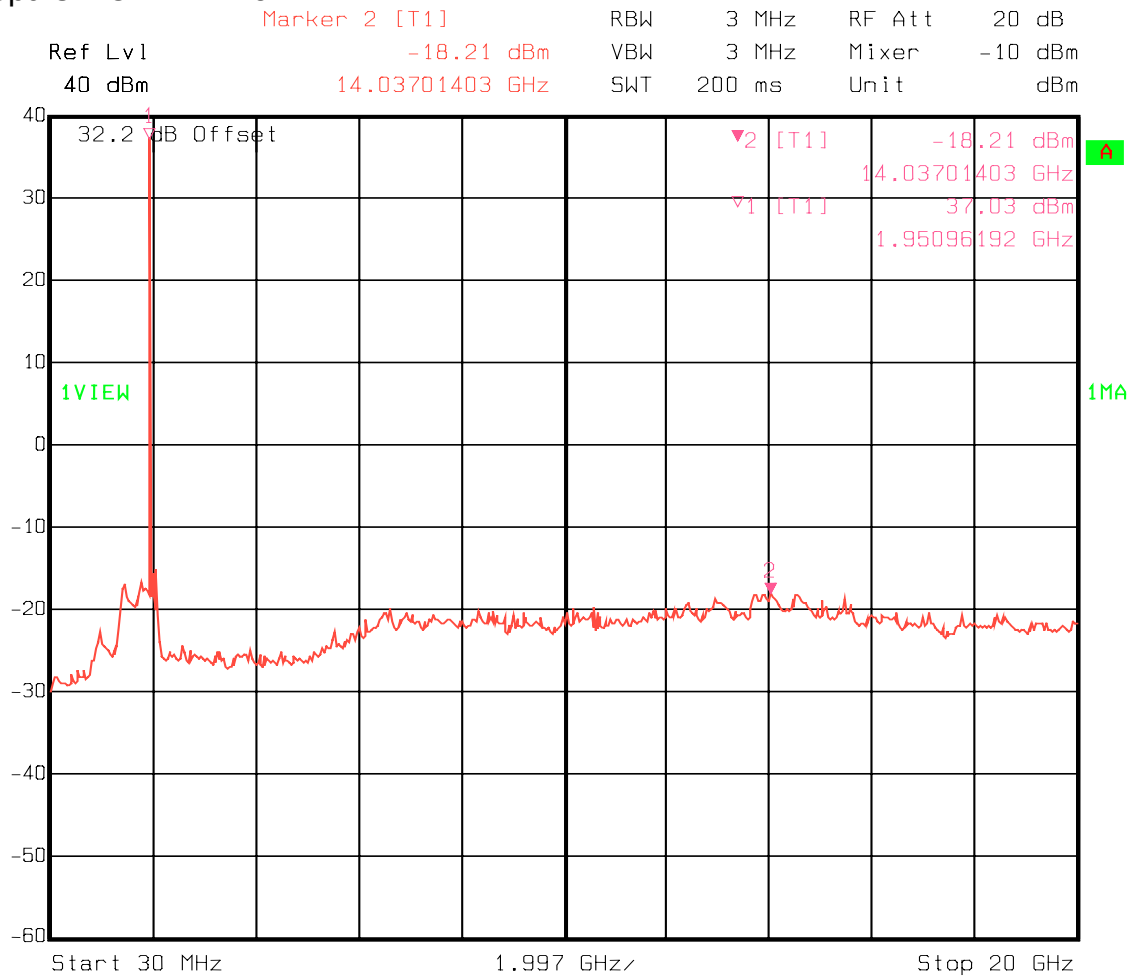


Date: 19.DEC.2006 15:33:00

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – CDMA - Downlink

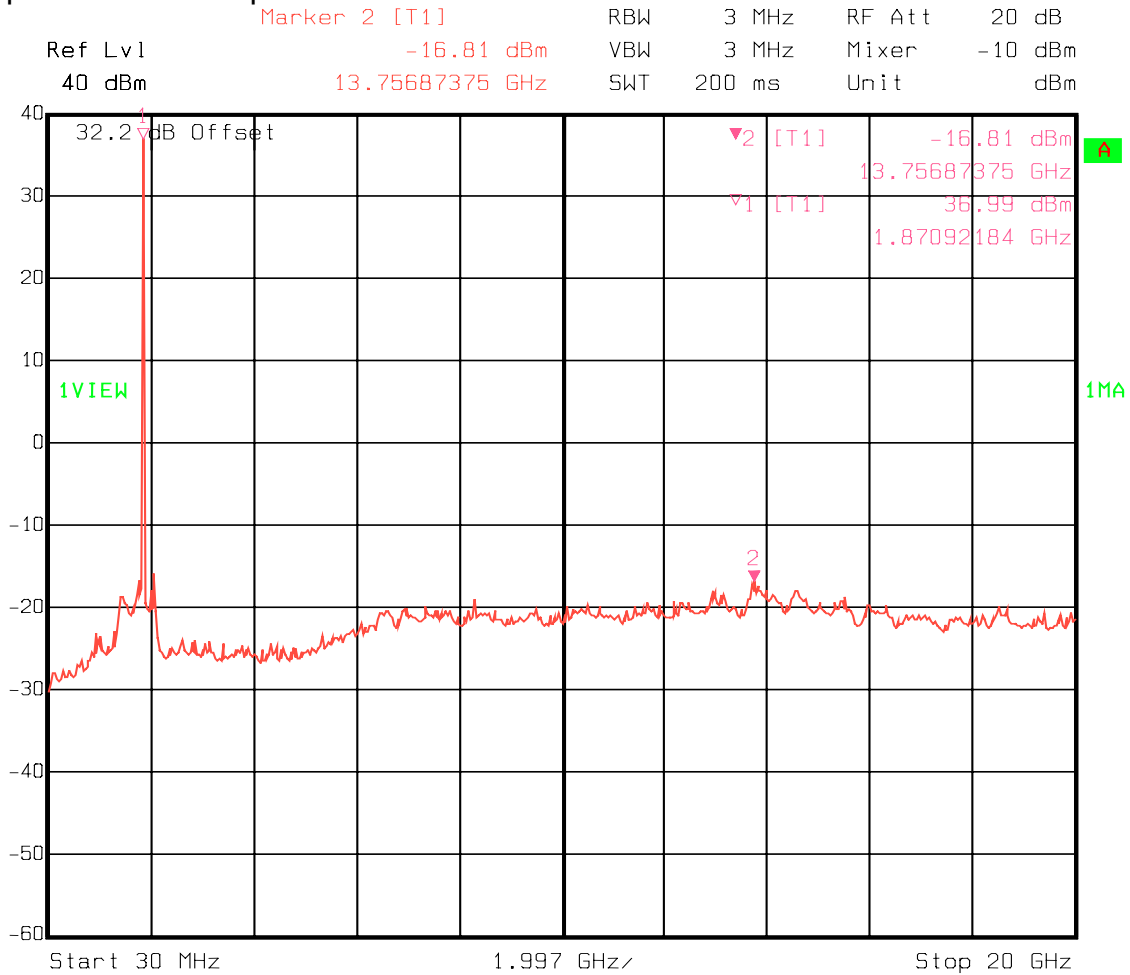


Date: 19.DEC.2006 16:30:34

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – CDMA - Uplink



Date: 19.DEC.2006 16:31:15

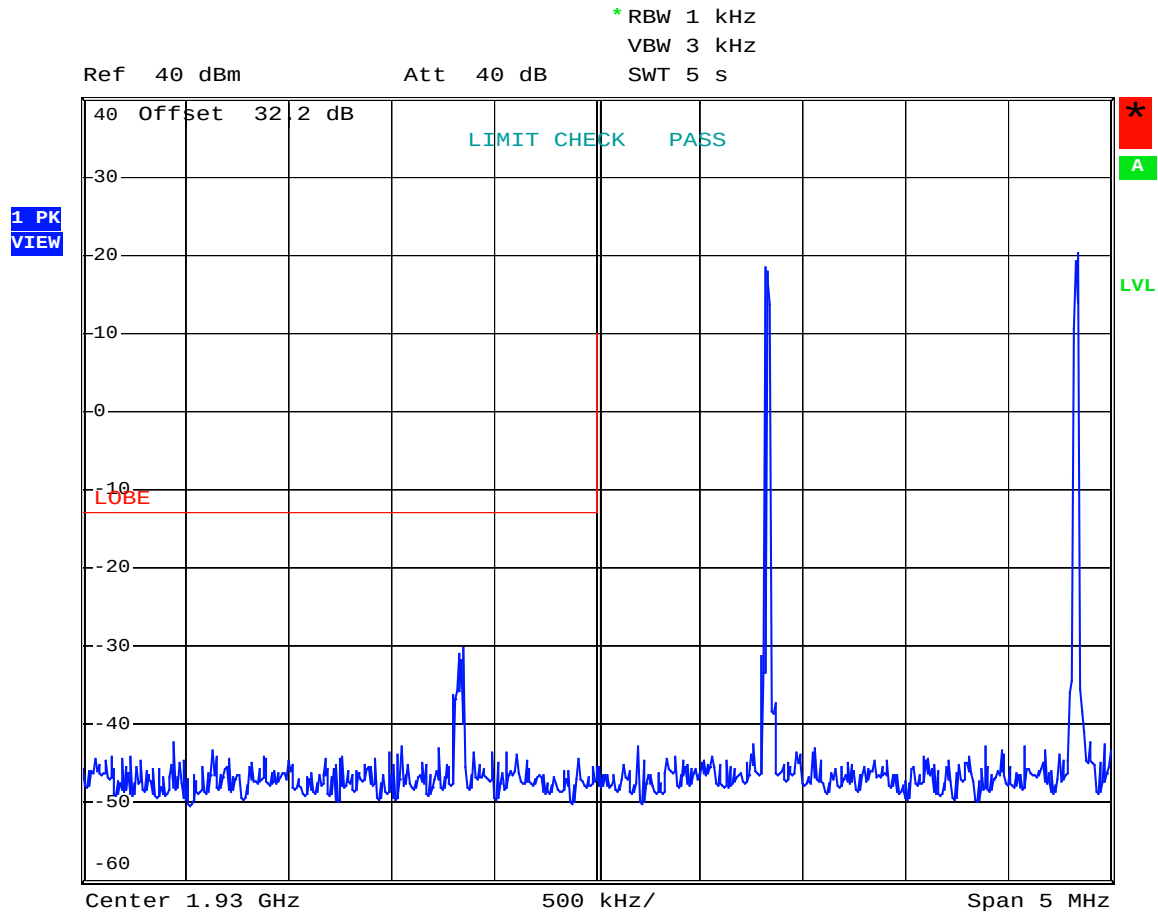
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

TDMA

Downlink



Date: 20.DEC.2006 09:51:03

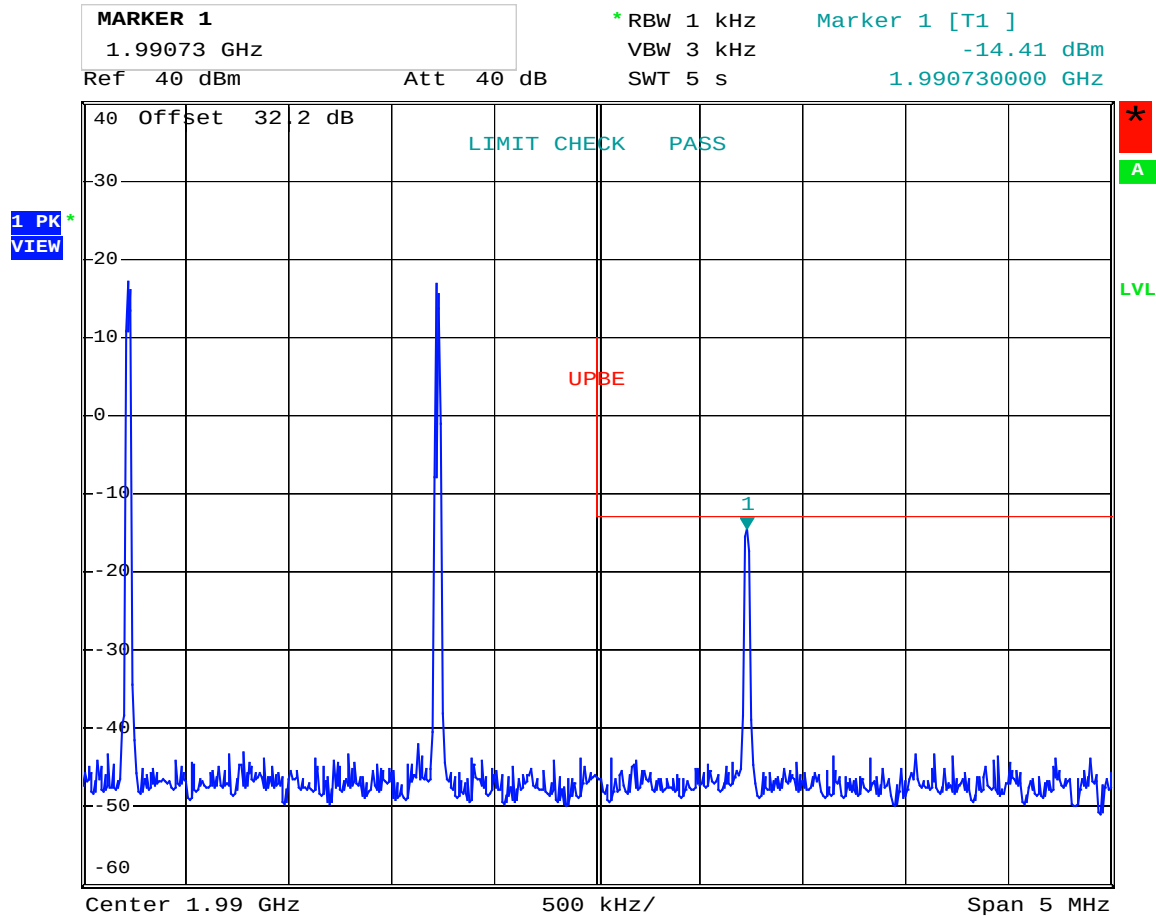
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

TDMA

Downlink



Date: 20.DEC.2006 09:54:05

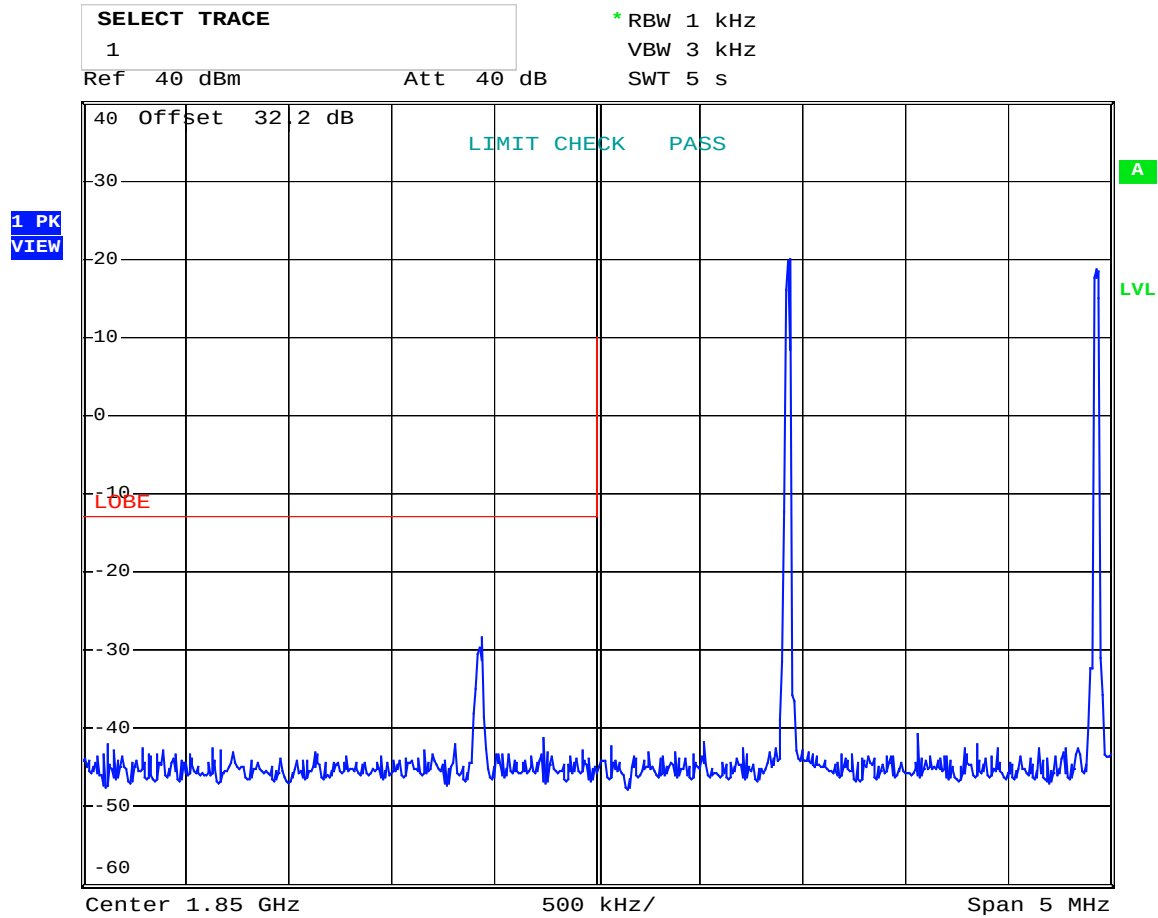
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

TDMA

Uplink



Date: 20.DEC.2006 09:44:50

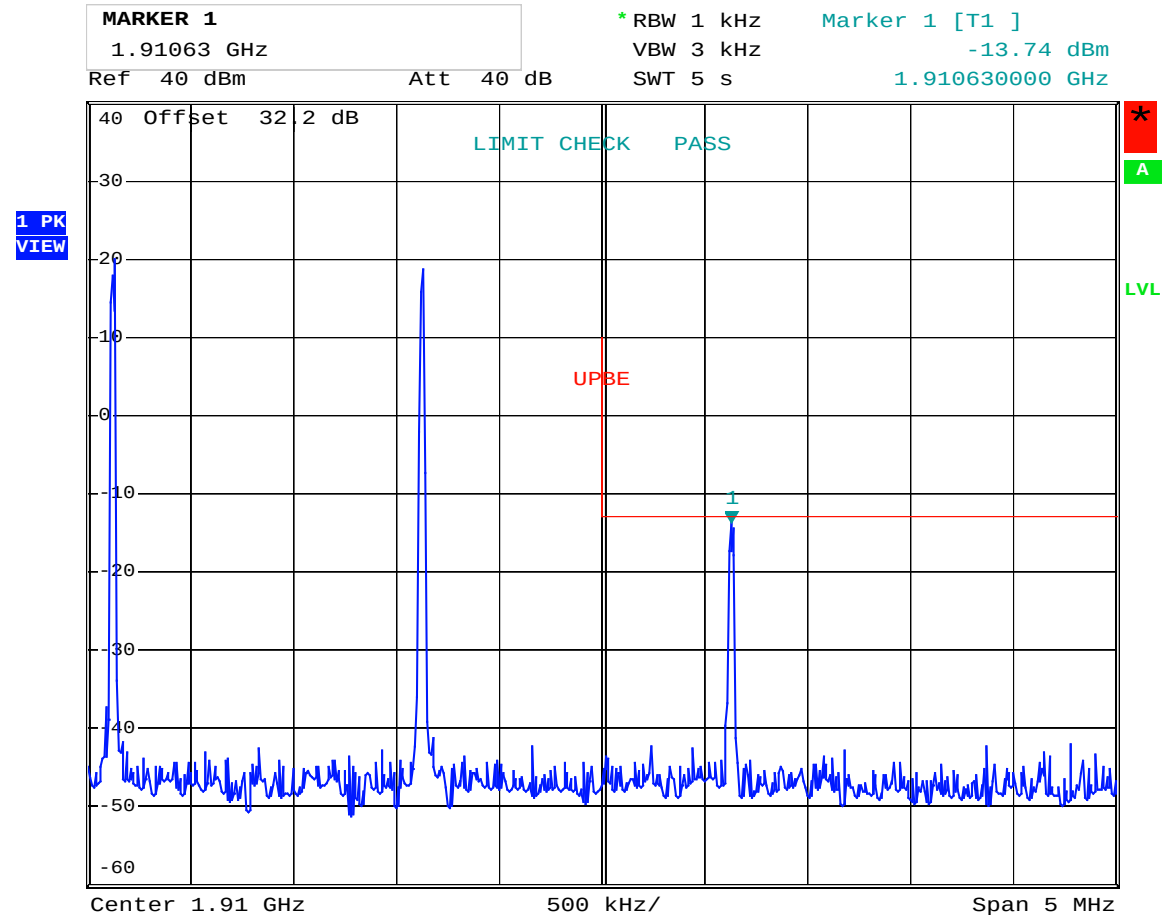
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

TDMA

Uplink

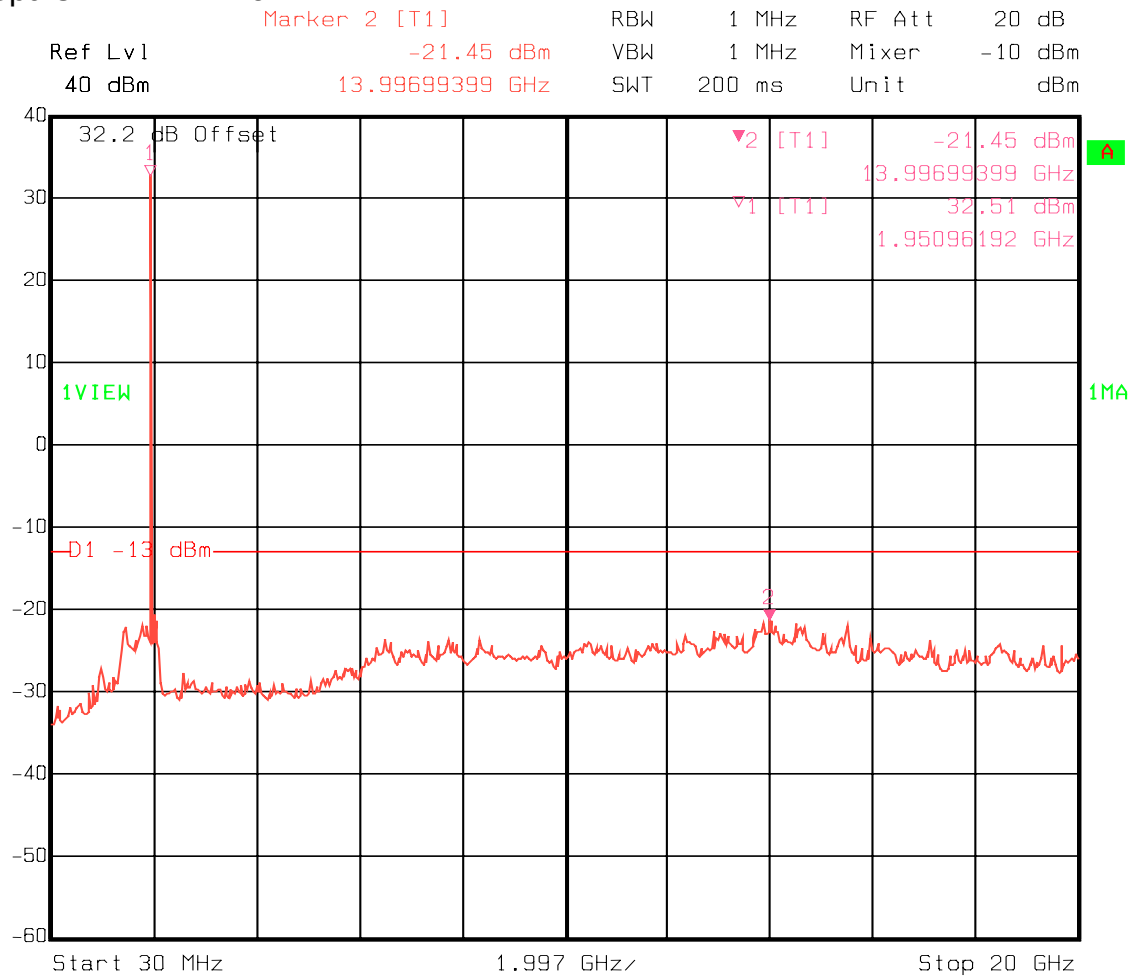


Date: 20.DEC.2006 09:49:05

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – TDMA - Downlink

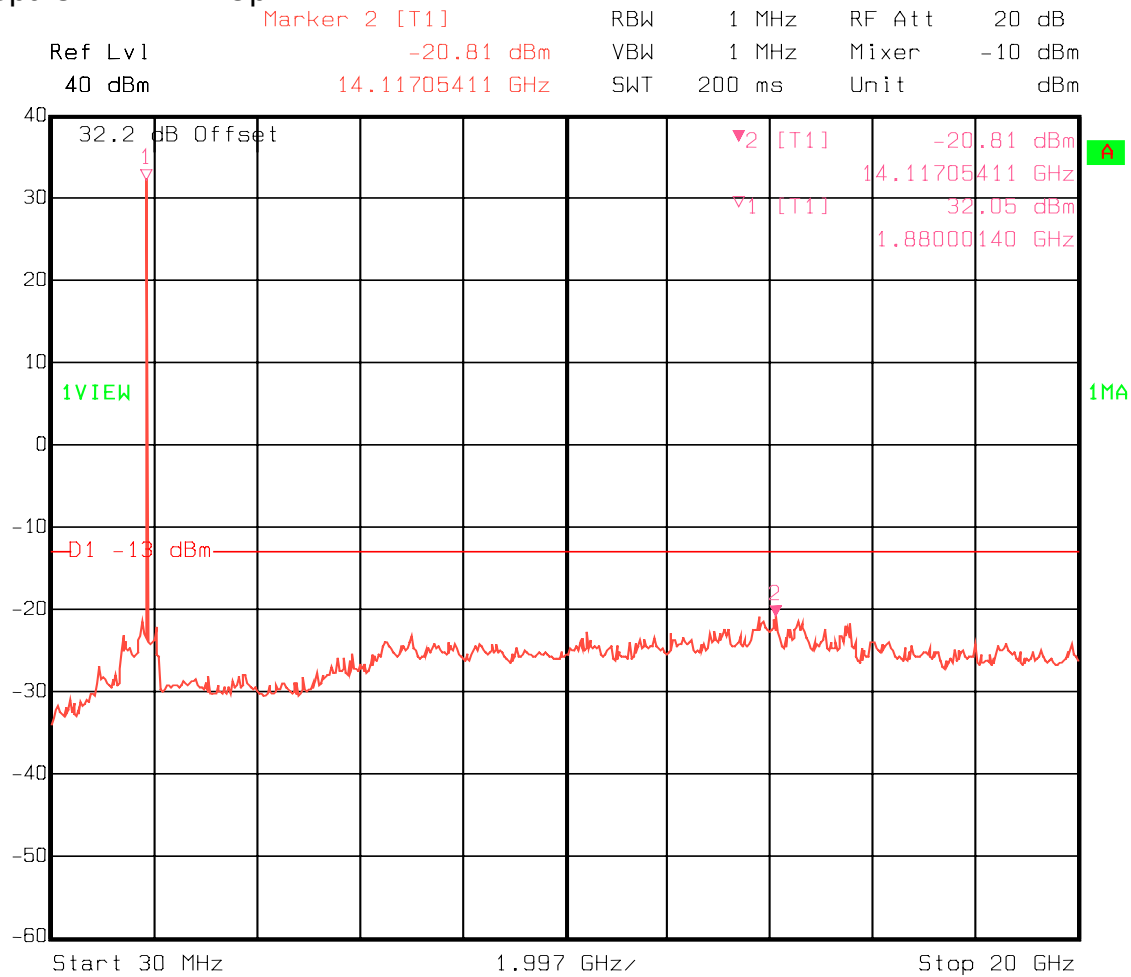


Date: 20.DEC.2006 10:46:39

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – TDMA - Uplink



Date: 20.DEC.2006 10:46:04

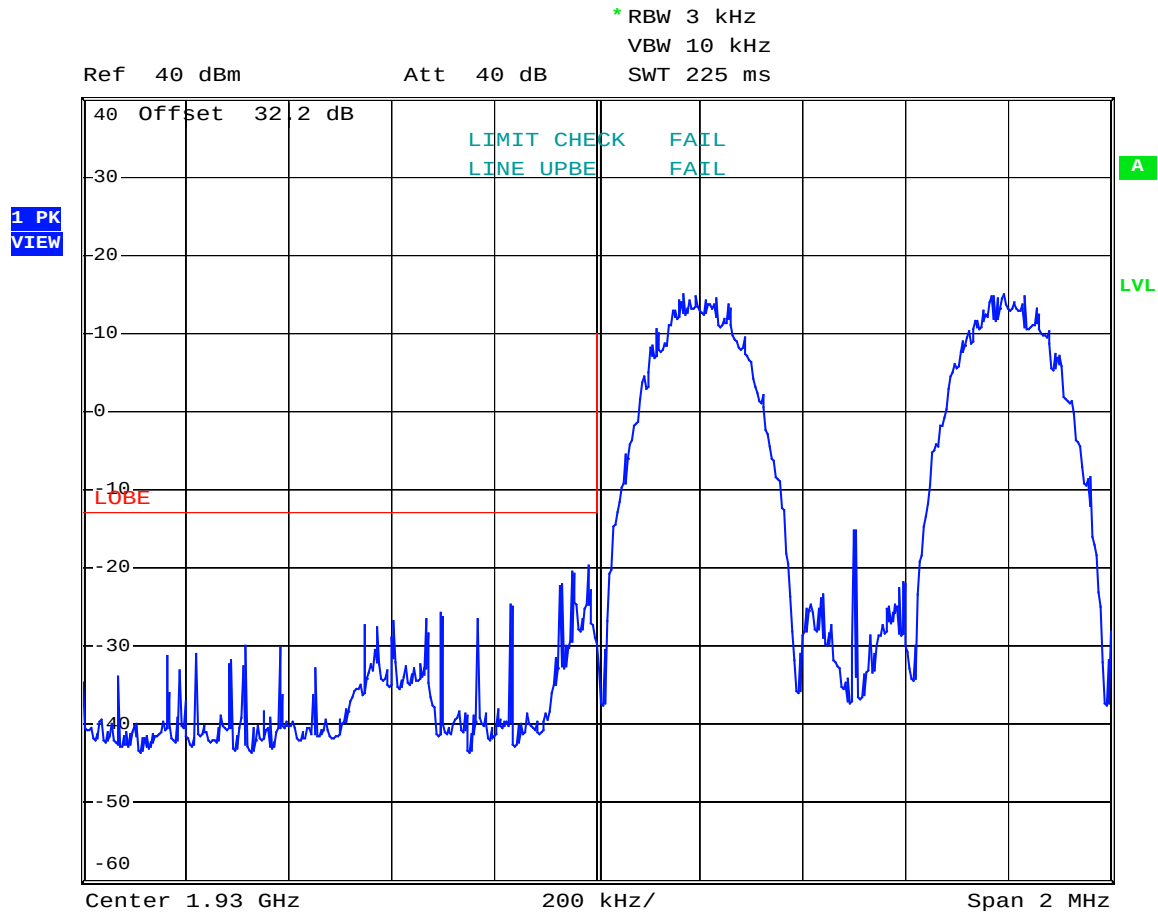
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

EDGE

Downlink



Date: 19.DEC.2006 16:51:37

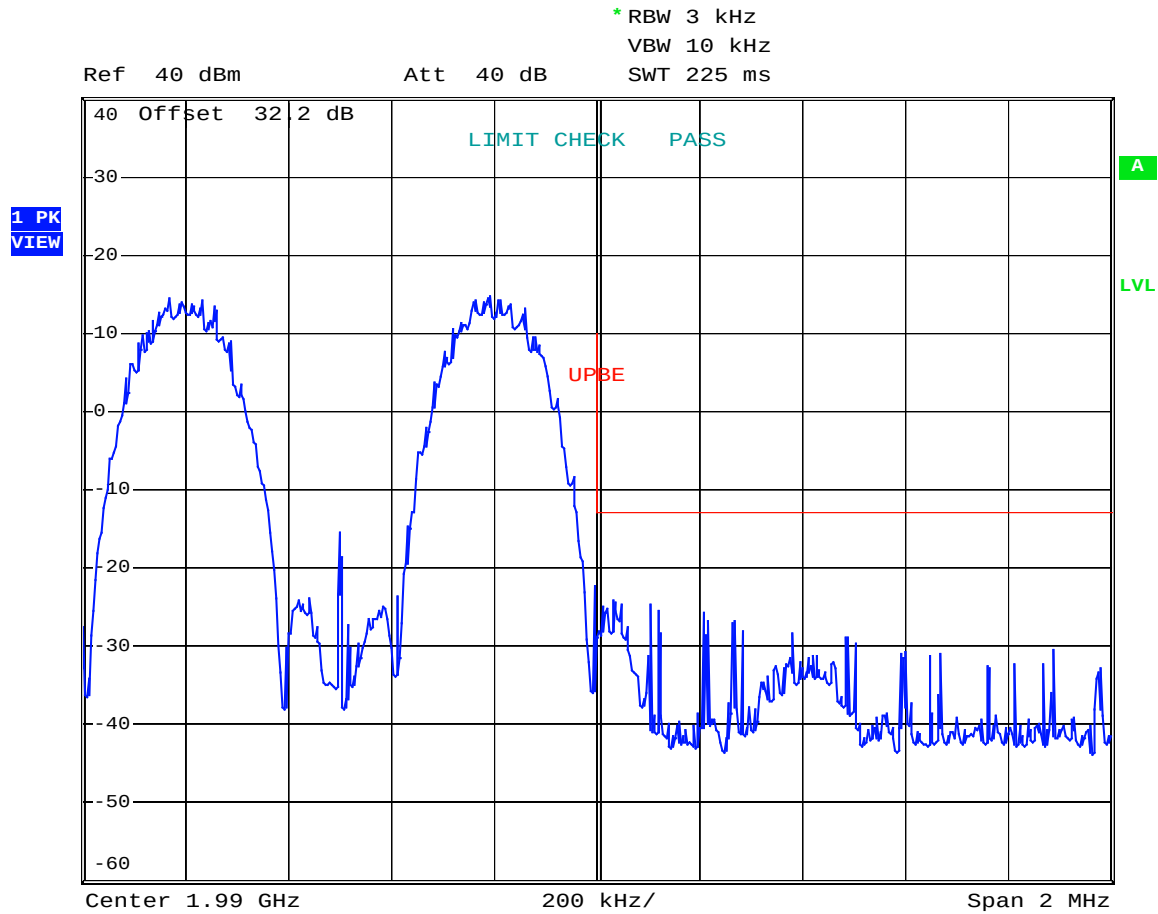
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

EDGE

Downlink



Date: 19.DEC.2006 16:50:56

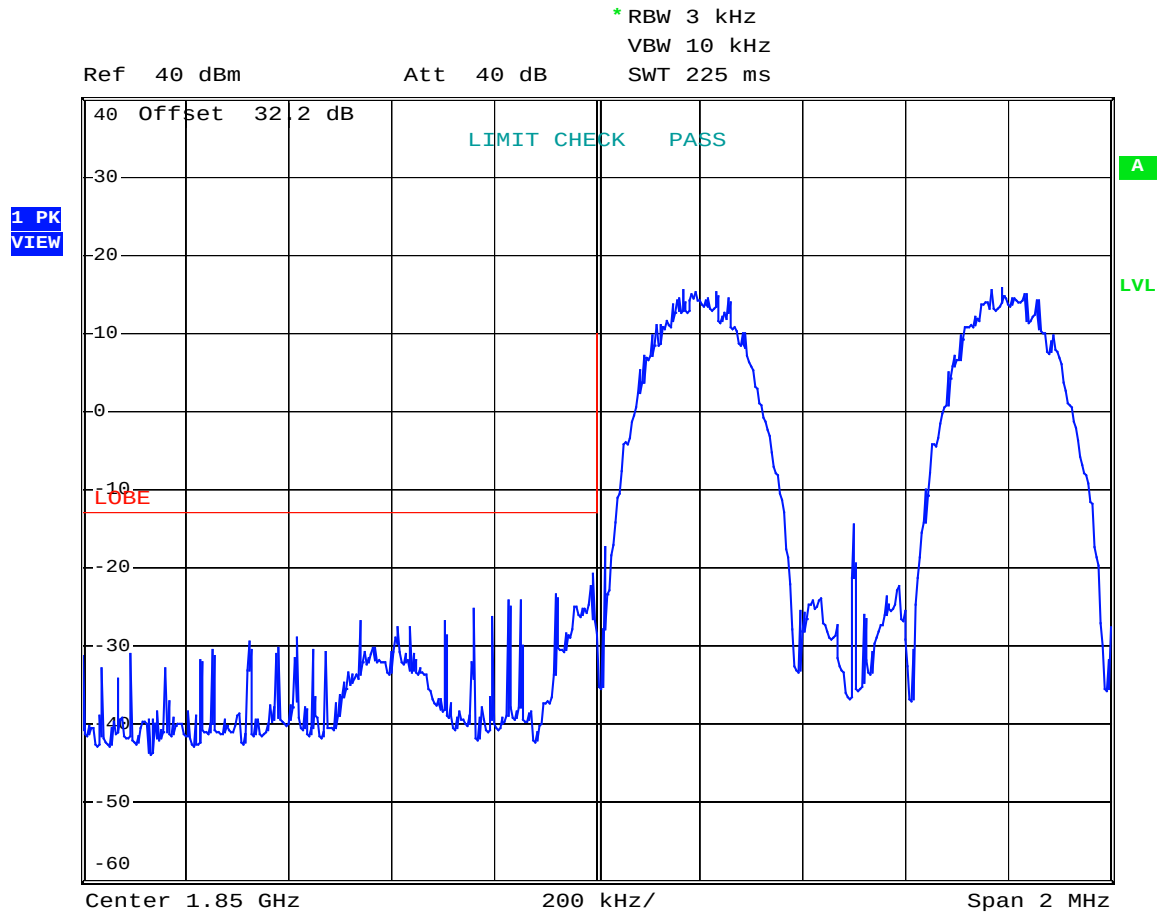
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

EDGE

Uplink



Date: 19.DEC.2006 16:48:58

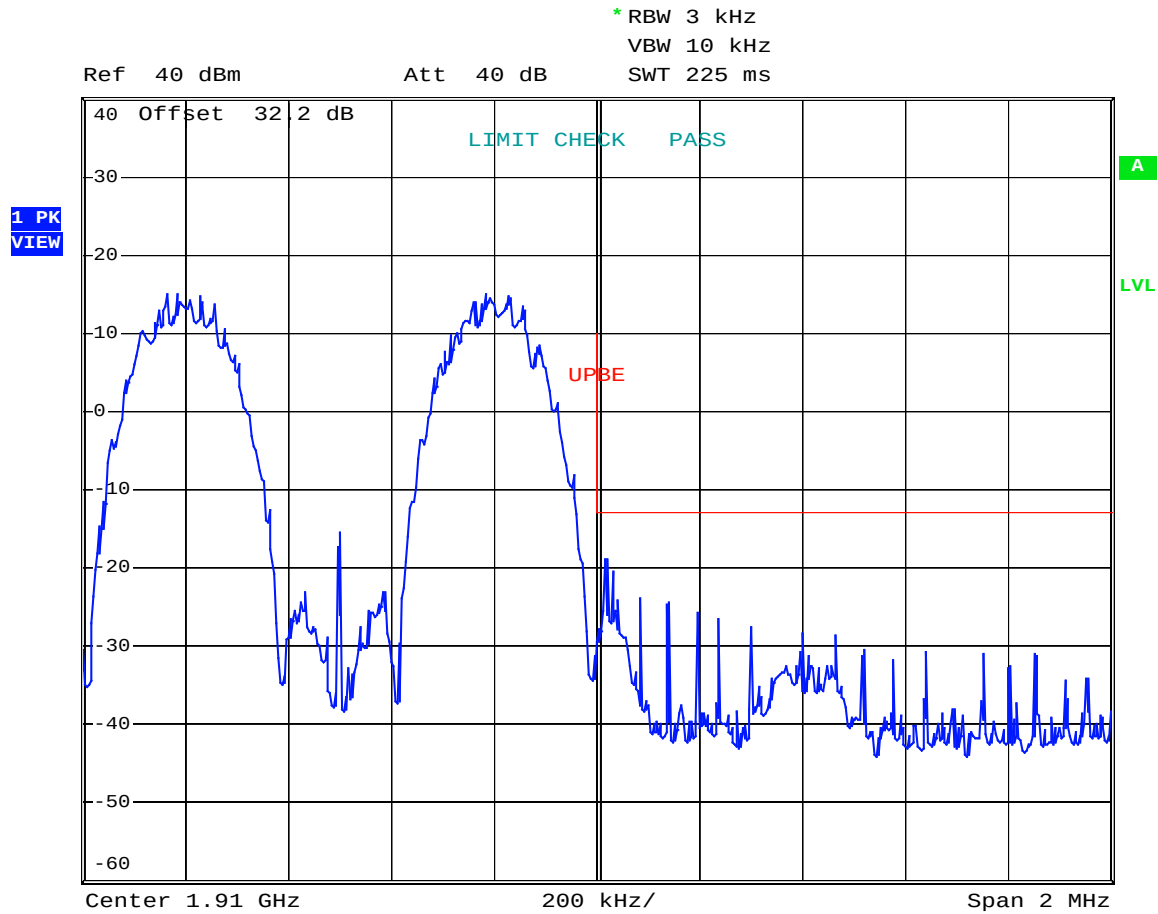
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

EDGE

Uplink

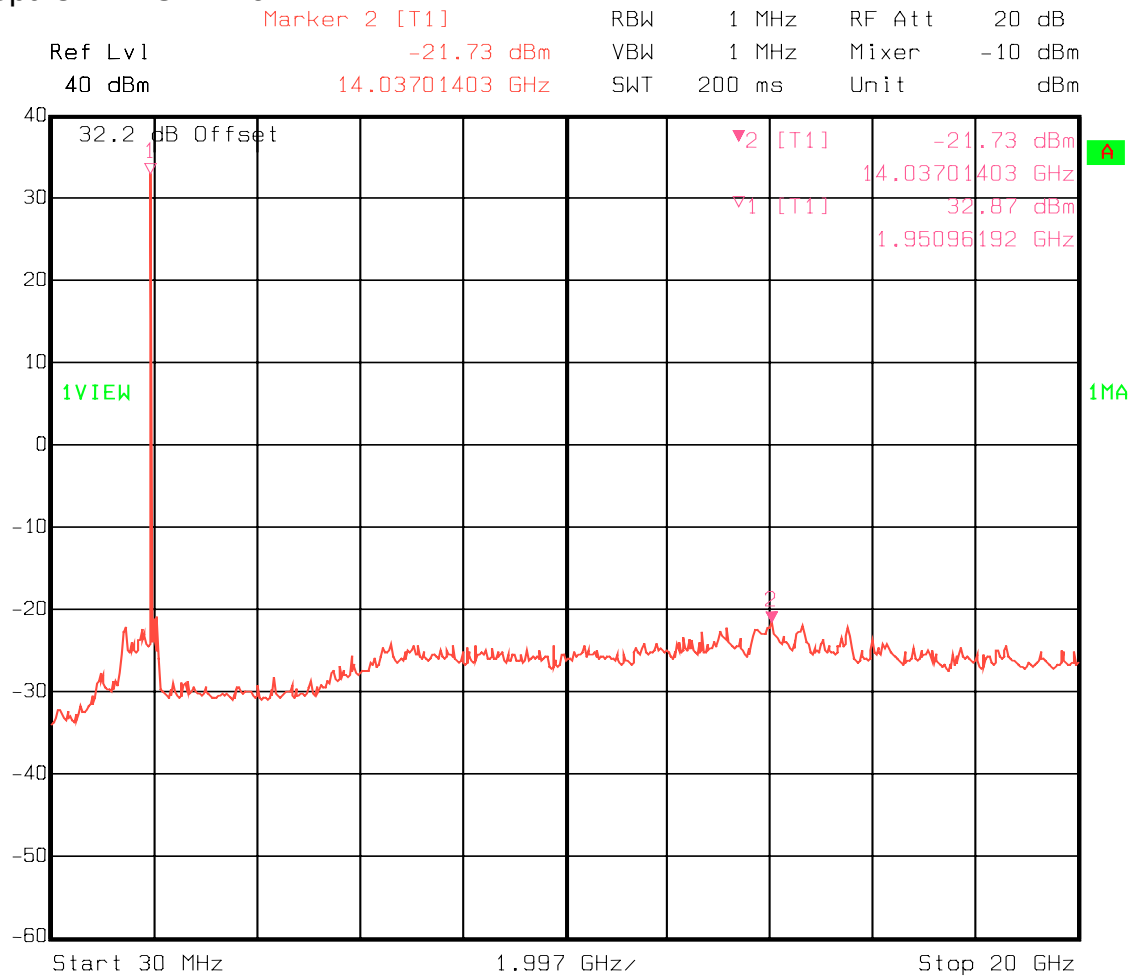


Date: 19.DEC.2006 16:50:02

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – EDGE - Downlink

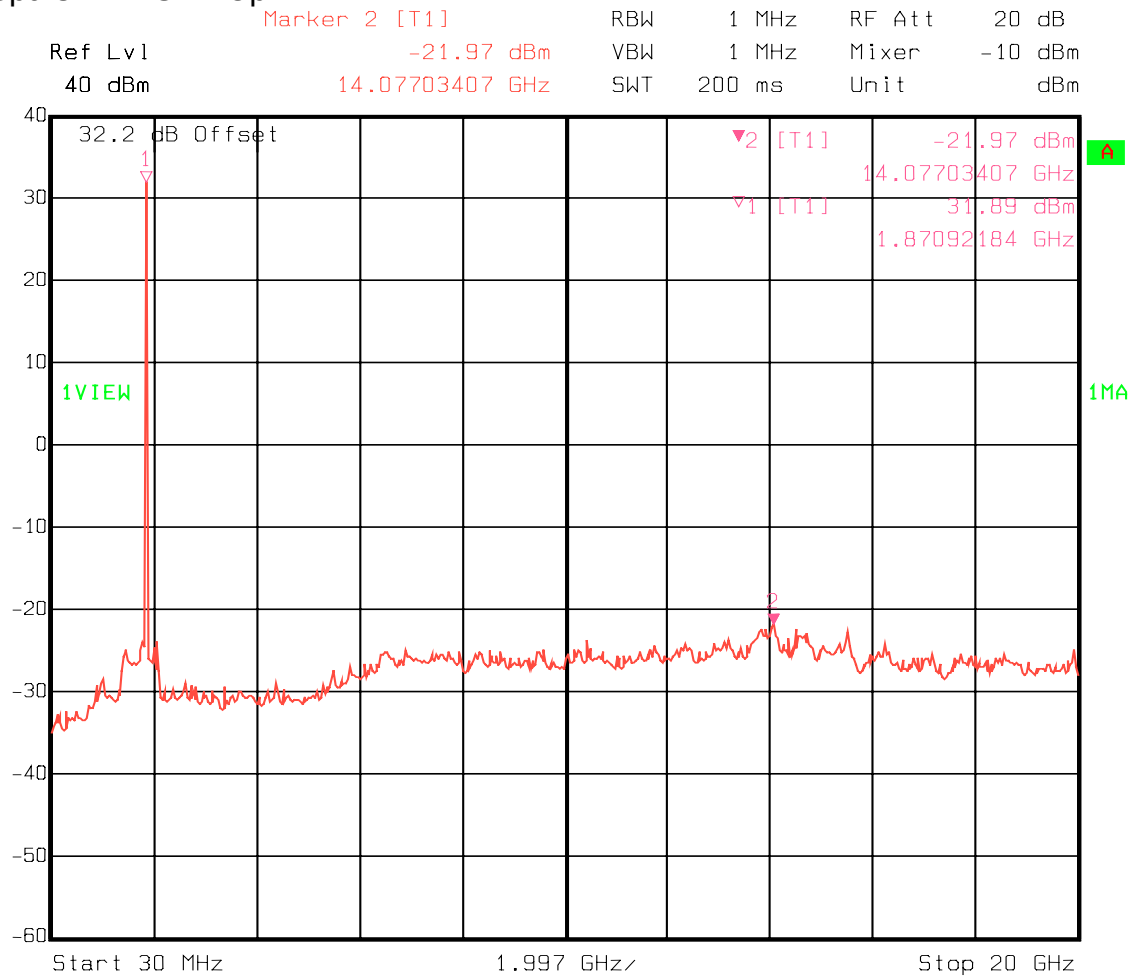


Date: 19.DEC.2006 17:44:00

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – EDGE - Uplink



Date: 19.DEC.2006 17:43:11

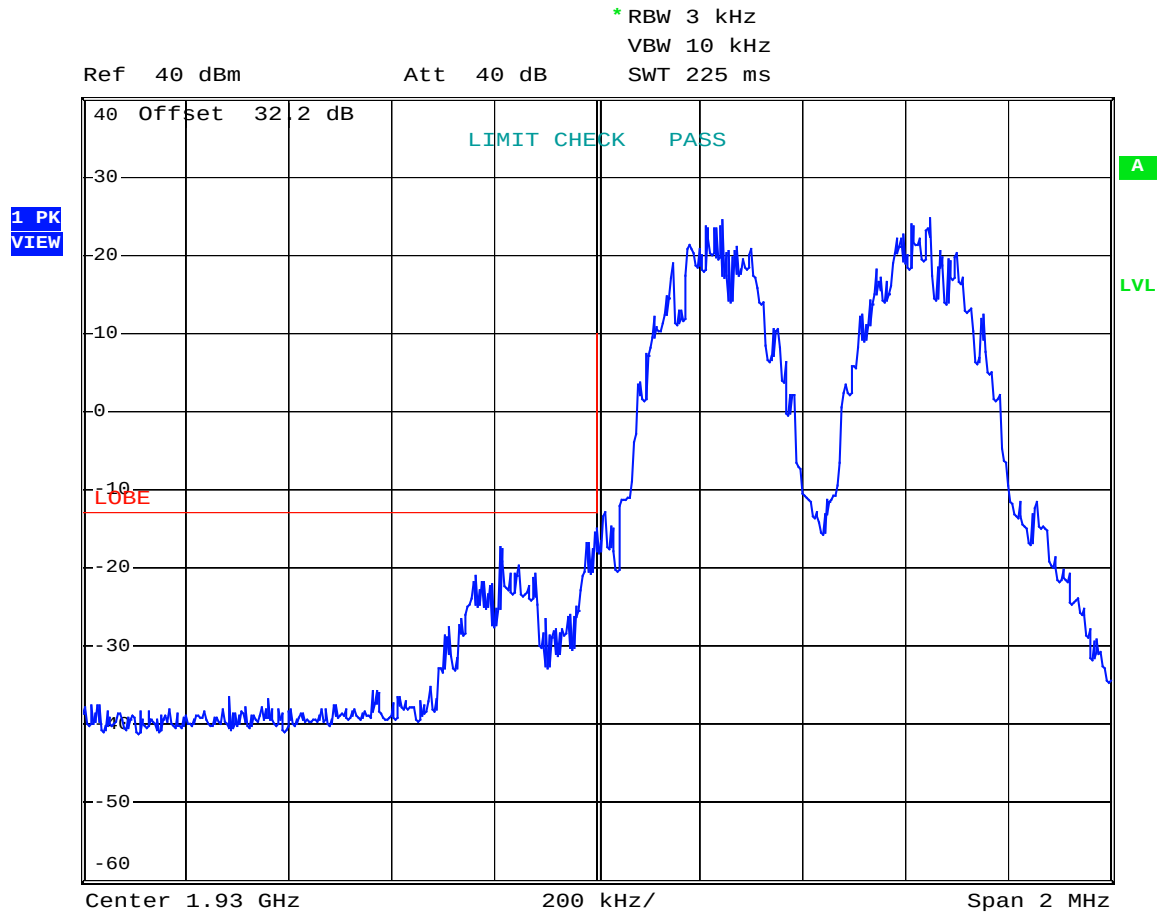
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

GSM

Downlink



Date: 19.DEC.2006 16:18:57

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

GSM

Downlink



Date: 19.DEC.2006 16:17:53

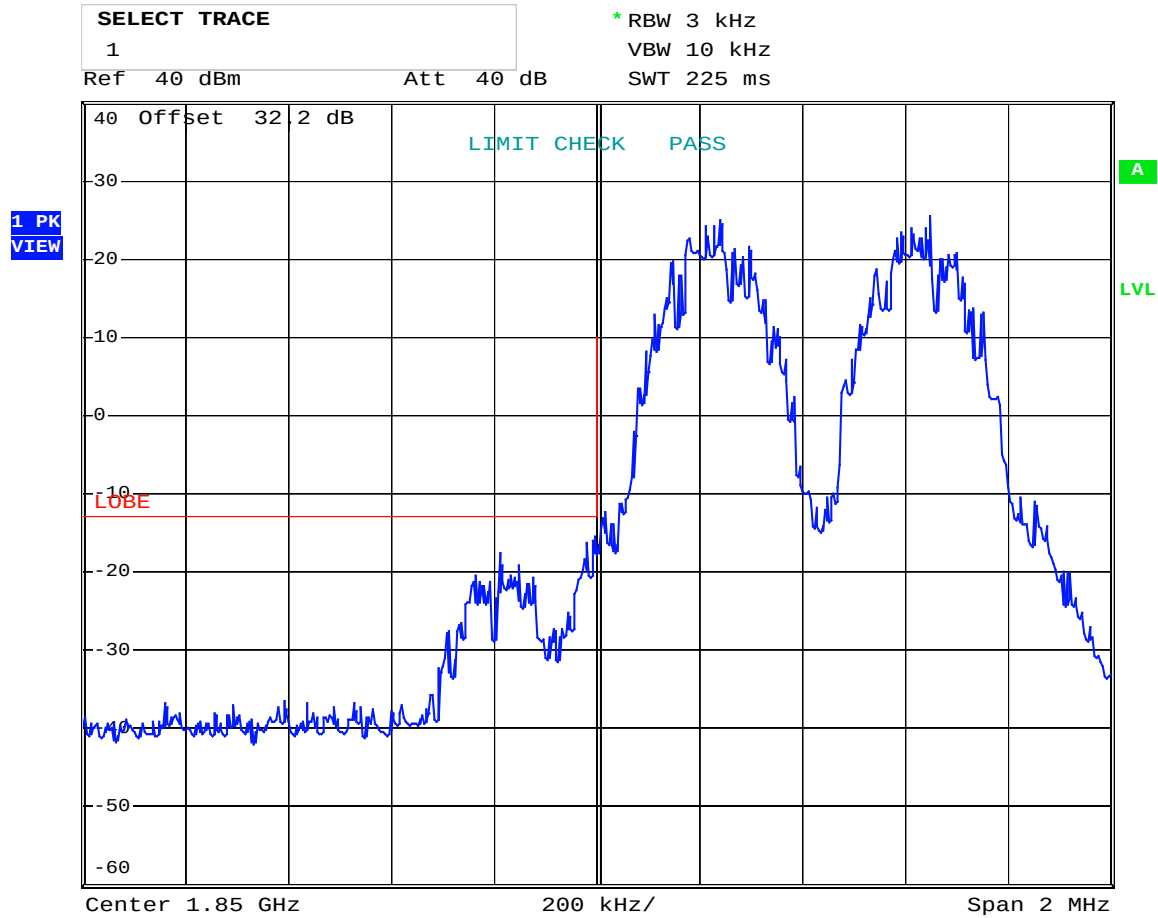
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

GSM

Uplink



Date: 19.DEC.2006 16:15:09

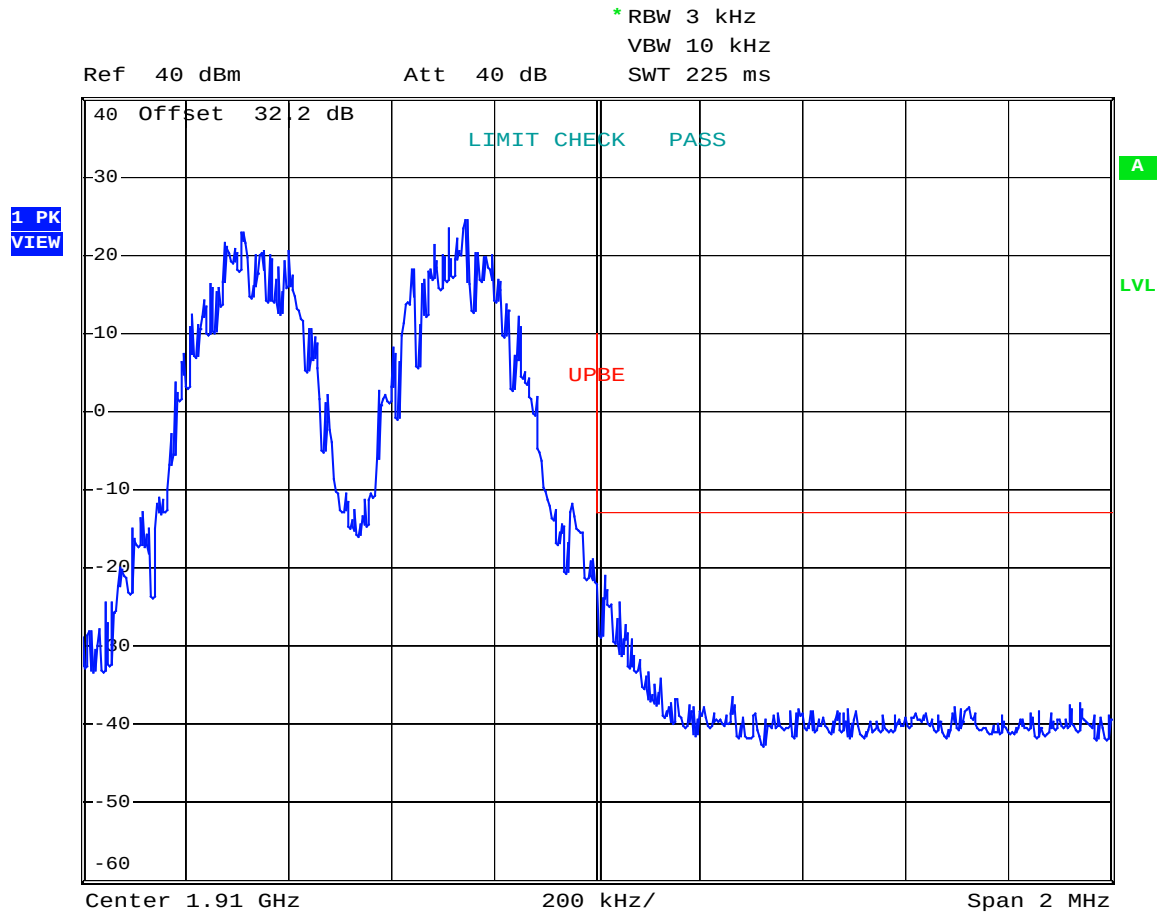
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

GSM

Uplink

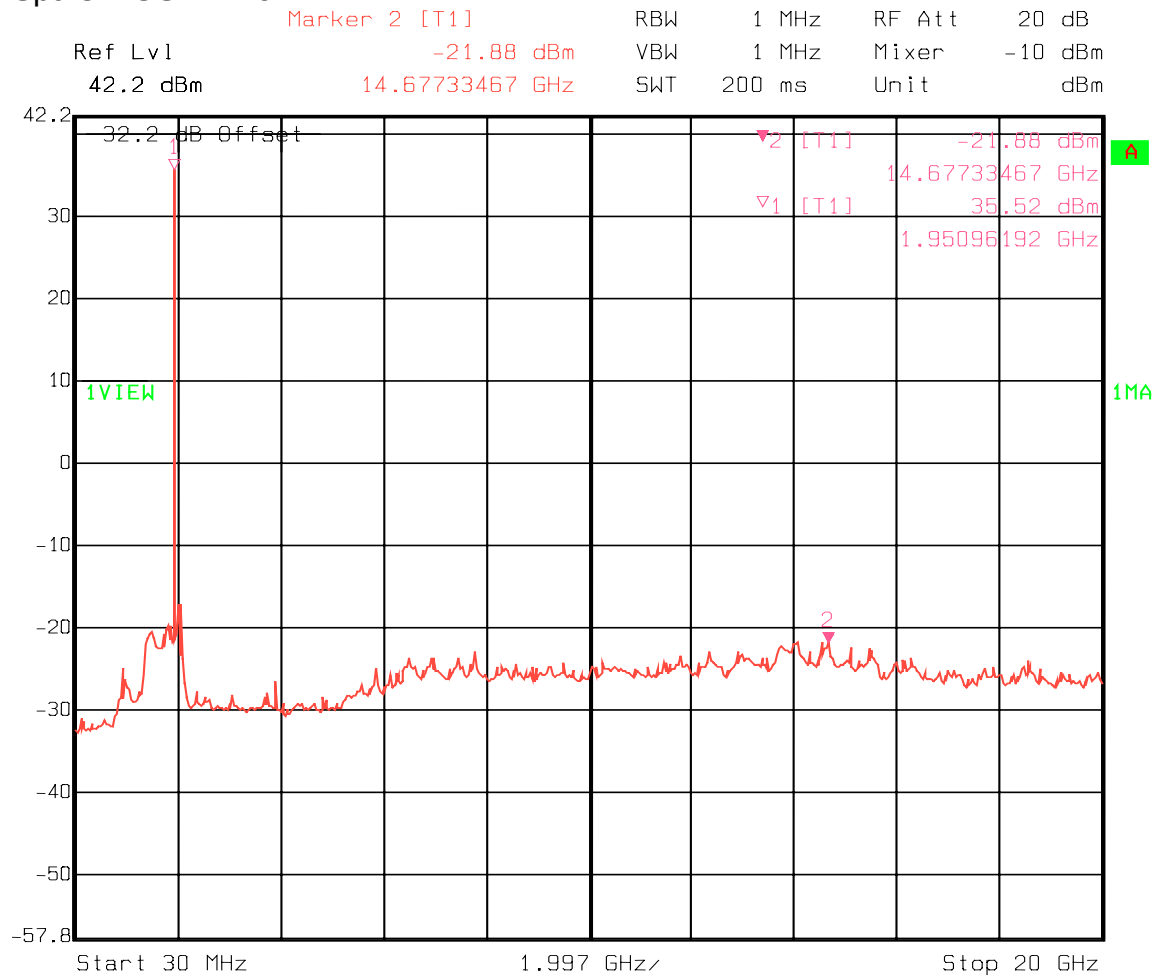


Date: 19.DEC.2006 16:16:29

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – GSM - Downlink

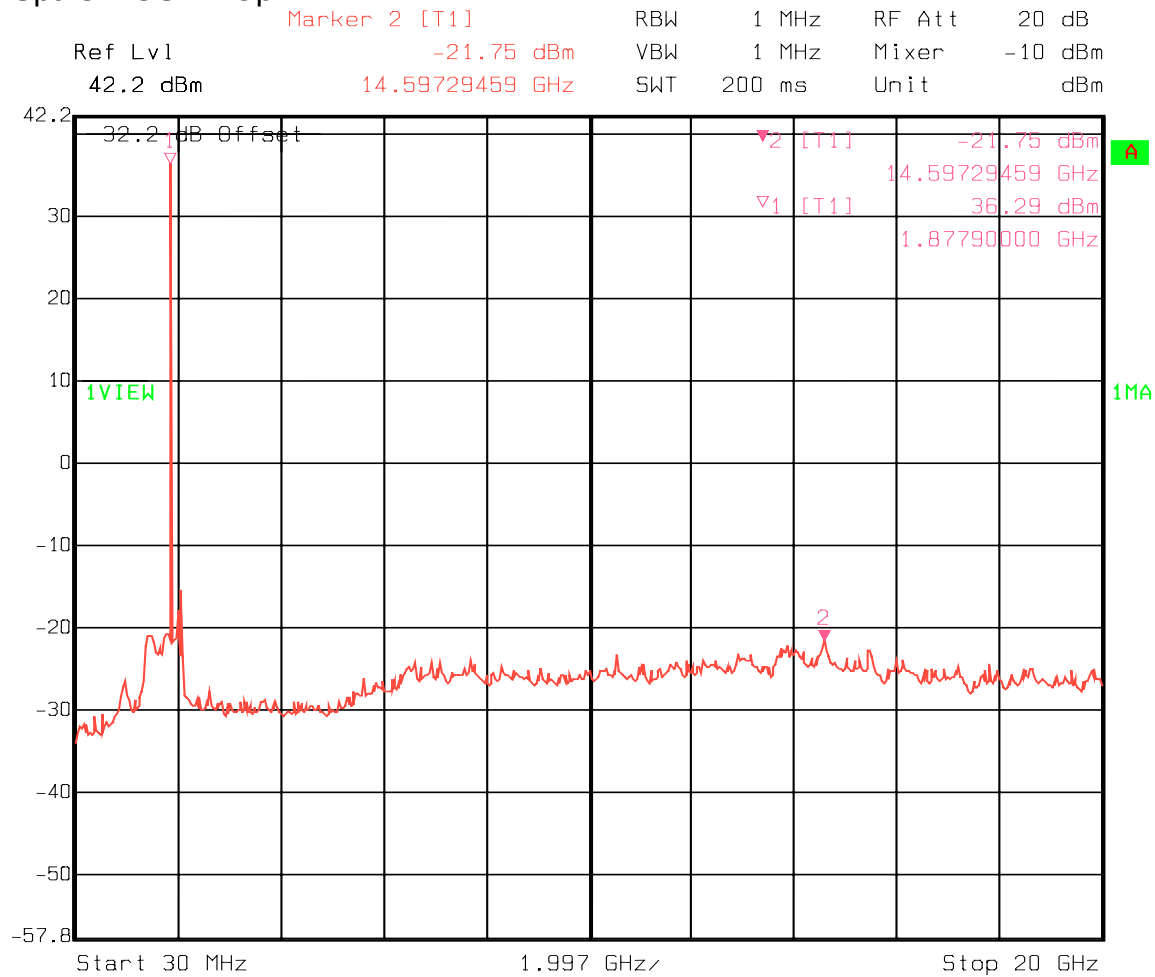


Date: 19.DEC.2006 17:11:41

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – GSM - Uplink



Date: 19.DEC.2006 17:11:01

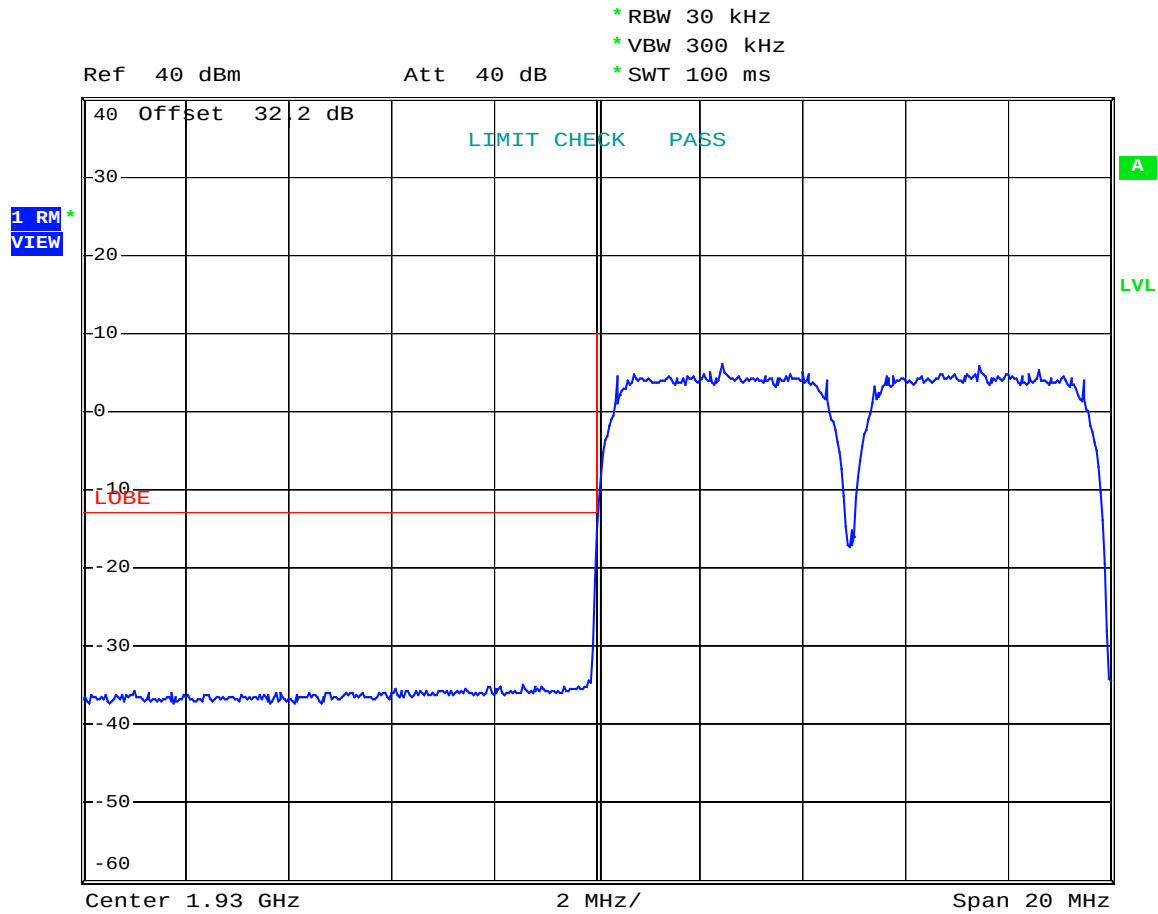
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

W-CDMA

Downlink



Date: 20.DEC.2006 11:21:53

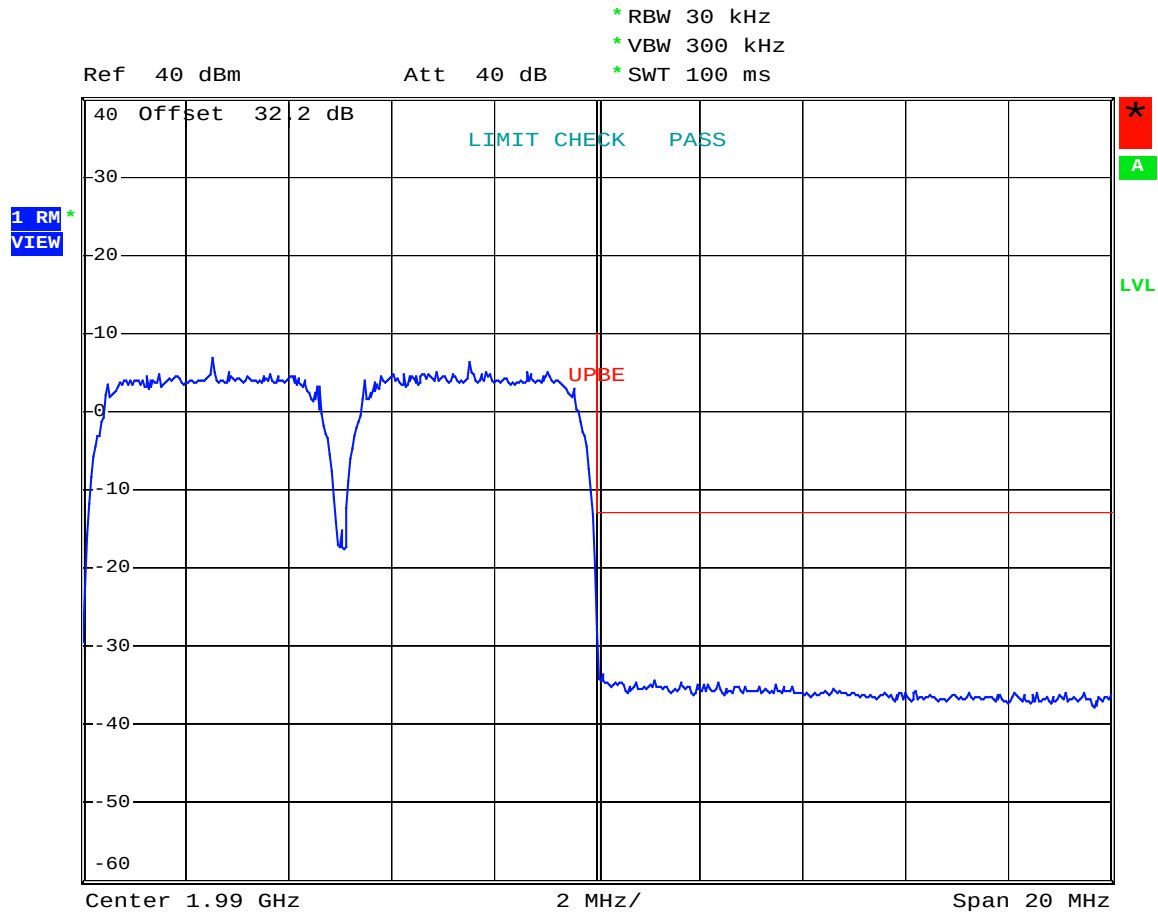
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

W-CDMA

Downlink



Date: 20.DEC.2006 11:23:03

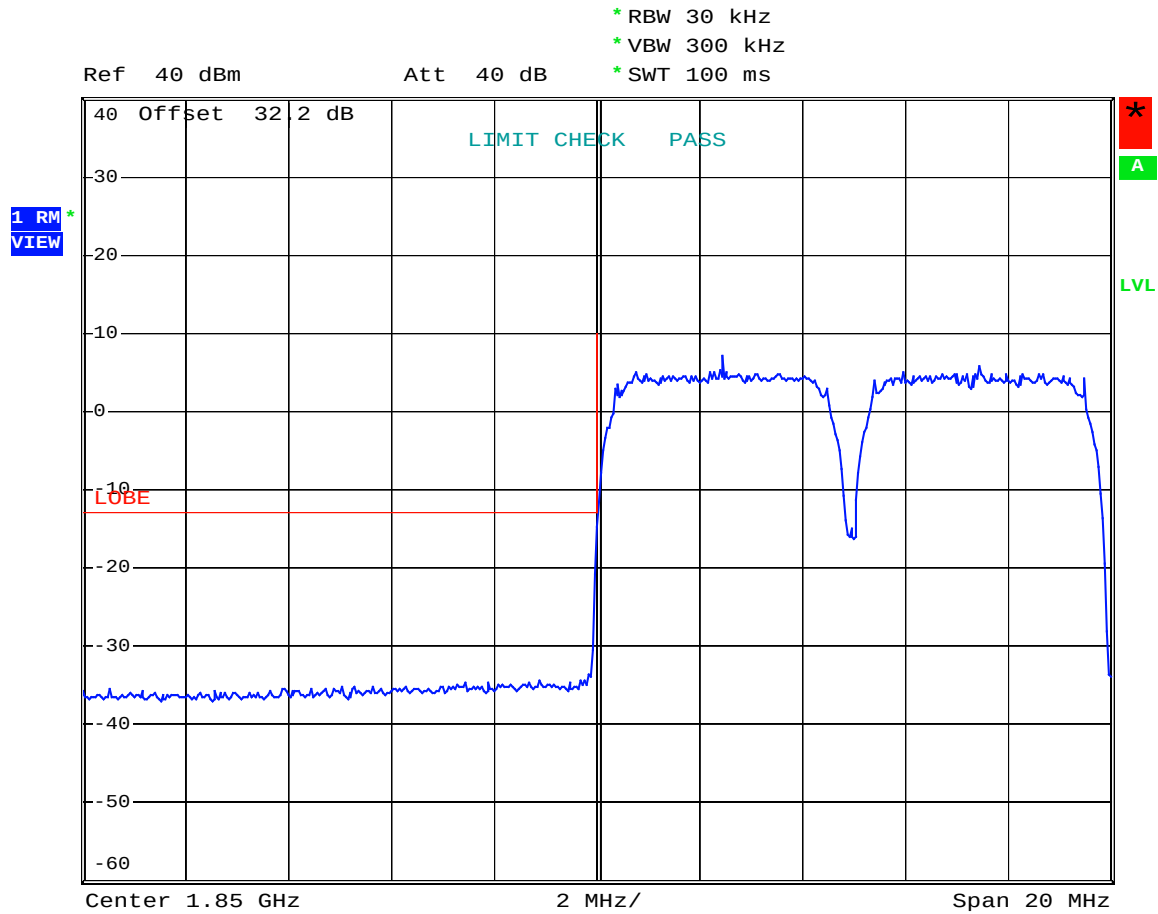
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Lower Bandedge Intermodulation

W-CDMA

Uplink



Date: 20.DEC.2006 11:19:59

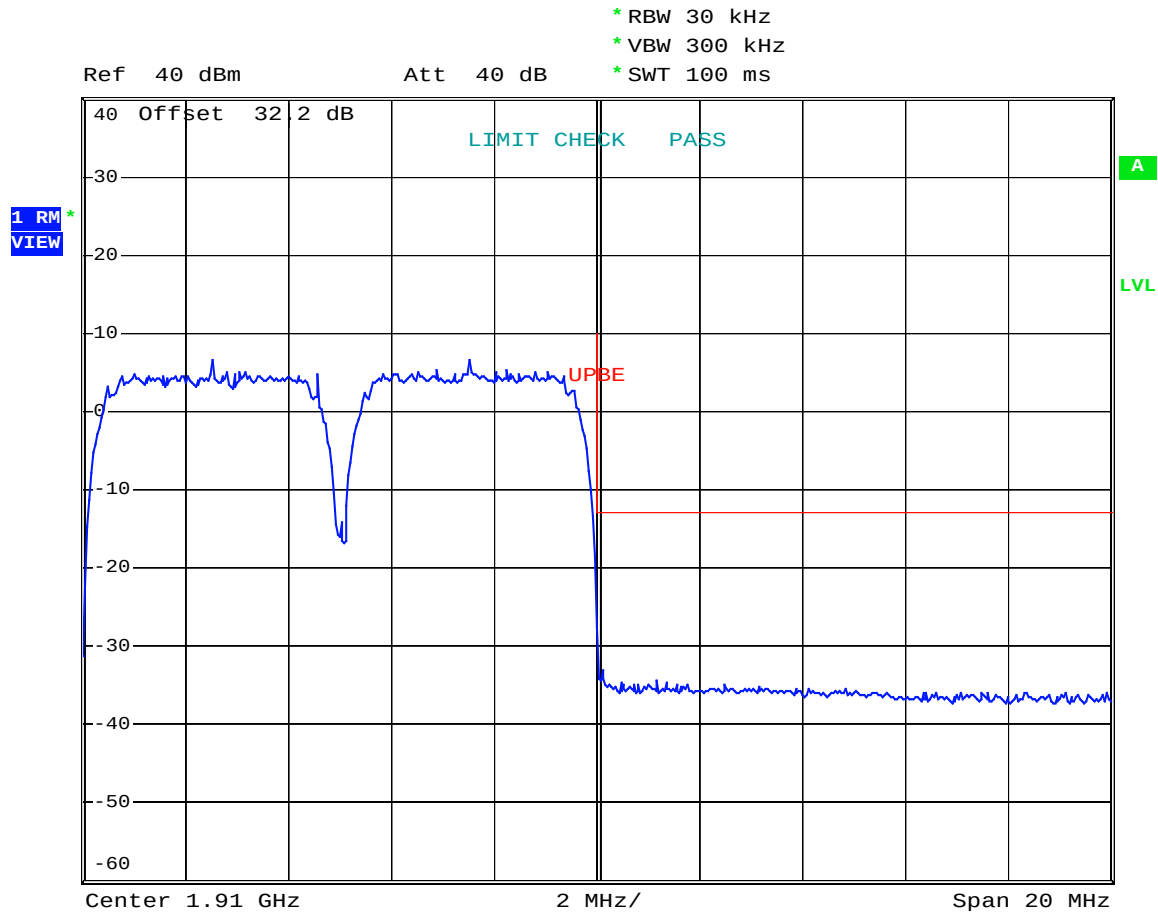
EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Upper Bandedge Intermodulation

W-CDMA

Uplink

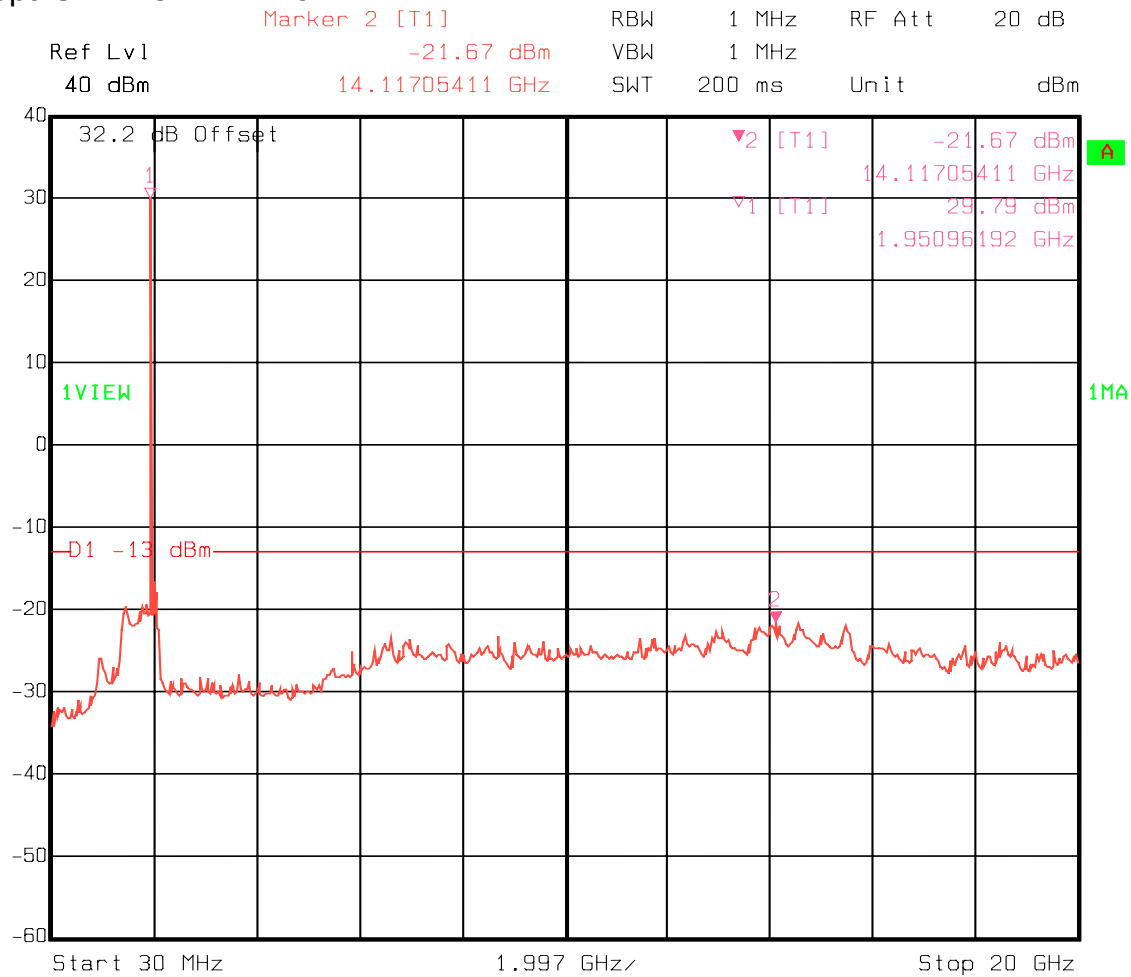


Date: 20.DEC.2006 11:18:49

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – W-CDMA - Downlink

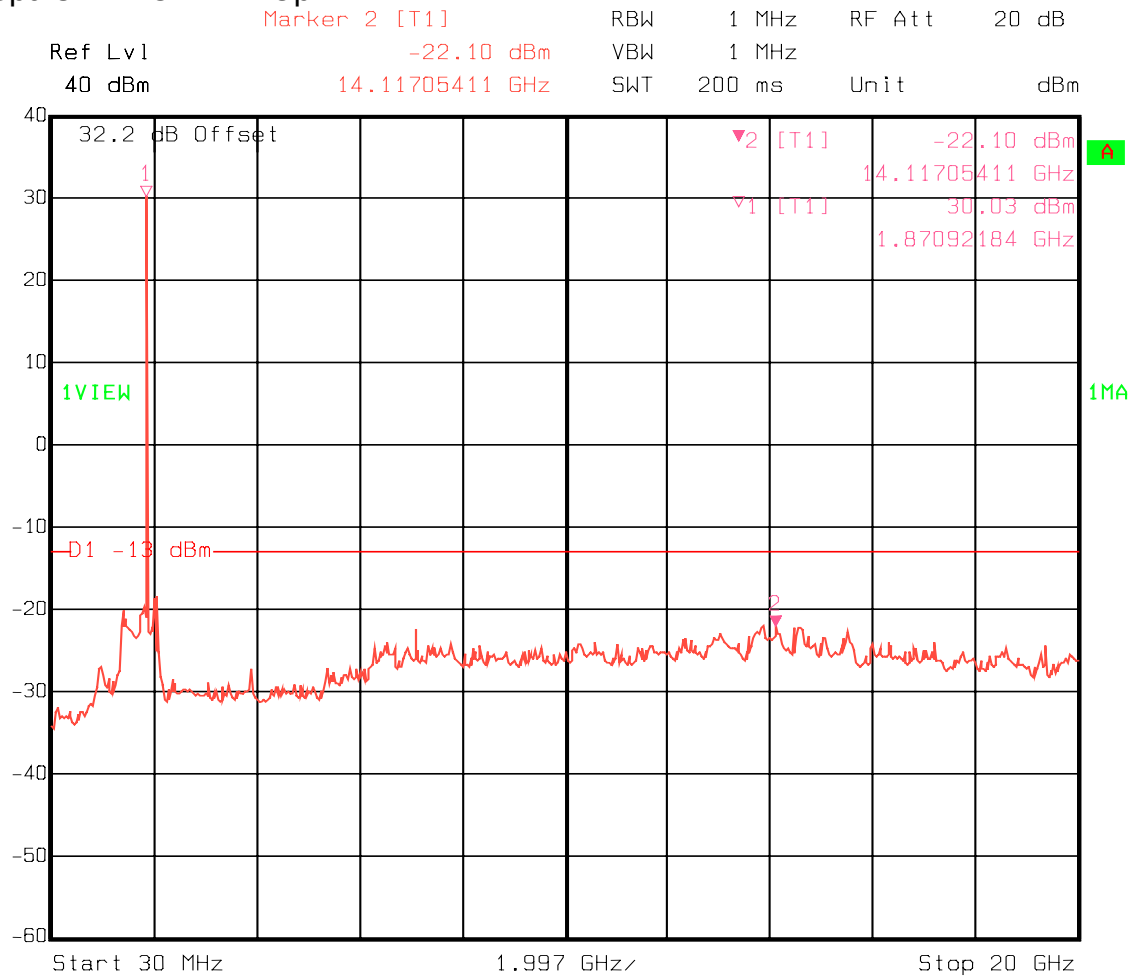


Date: 20.DEC.2006 12:18:56

EQUIPMENT: FS31X-1.9-60-2-RM

Test Data – Spurious Emissions at Antenna Terminals

Spurs – W-CDMA - Uplink



Date: 20.DEC.2006 12:19:52

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 24.238
TESTED BY: David Light	DATE: 05 January 2007

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.RBW=VBW=100 kHz below 1000 MHz
RBW=VBW=1 MHz above 1000 MHz**Equipment Used:** 759-1195-791-1464-993-1016-1484-1485**Measurement Uncertainty:** +/-1.7 dB**Temperature:** 24 °C**Relative Humidity:** 39 %

EQUIPMENT: FS31X-1.9-60-2-RM

Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	05/26/06	05/26/08
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	CBU	N/A
1469	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1604	ATTENUATOR	NARDA 776B-20	NONE	N/A	N/A
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
2071	Power Sensor	Agilent E9304A	MY41495174	11/14/06	11/14/07
2072	Power Meter	HP E4418B	GB39401848	11/13/06	11/13/07
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	02/13/06	02/13/07
1195	ANTENNA,BICONICAL	A.H. SYSTEMS SAS-200/542	235	02/10/06	02/10/07
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	04/20/06	04/20/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	04/20/06	04/20/07
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1484	Cable	Storm PR90-010-072	N/A	10/02/06	10/02/07
1485	Cable	Storm PR90-010-216	N/A	10/02/06	10/02/07
1659	Spectrum Analyzer	Rhode & Schwarz FSP	973353	01/10/06	01/10/07

ANNEX A - TEST DETAILS

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter or spectrum analyzer. 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: Occupied Bandwidth

PARA. NO.: 2.1049

Minimum Standard: Input/Output

Method Of Measurement:

CDMA

Spectrum analyzer settings:

RBW=VBW=30 kHz

Span: 5 MHz

Sweep: Auto

GSM / EDGE

RBW=VBW= 3 kHz

Span: 1 MHz

Sweep: Auto

TDMA

RBW=VBW= 1 kHz

Span: 1 MHz

Sweep: Auto

W-CDMA

RBW=VBW= 100 kHz

Span: 10 MHz

Sweep: Auto

NAME OF TEST: Spurious Emission at Antenna Terminals PARA. NO.: 24.238**Minimum Standard:**

Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P)$ dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 30 kHz (< 1MHz from Band Edge)
VBW: $\geq$ RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM / EDGE

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: $\geq$ RBW
Sweep: Auto
Video Avg: Disabled

TDMA

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: $\geq$ RBW
Sweep: Auto
Video Avg: Disabled

W-CDMA

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 100 kHz (< 1MHz from Band Edge)
VBW: $\geq$ RBW
Sweep: Auto
Video Avg: 6 Sweeps

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

NAME OF TEST: Field Strength of Spurious Radiation	PARA. NO.: 24.238
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Minimum Standard:

Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P)$ dB.

Method of Measurement

TIA/EIA-603-1992

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.: 2.1055

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement:

Frequency Stability With Voltage Variation

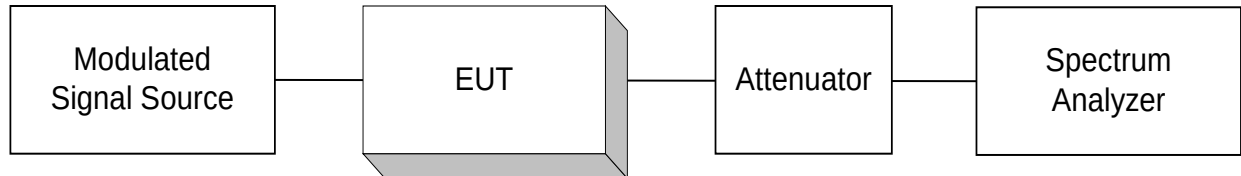
The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation

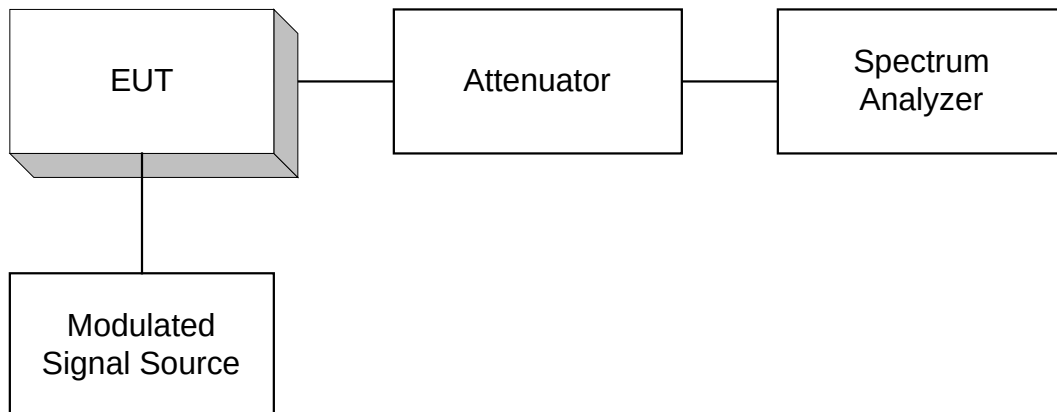
The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

ANNEX B - TEST DIAGRAMS

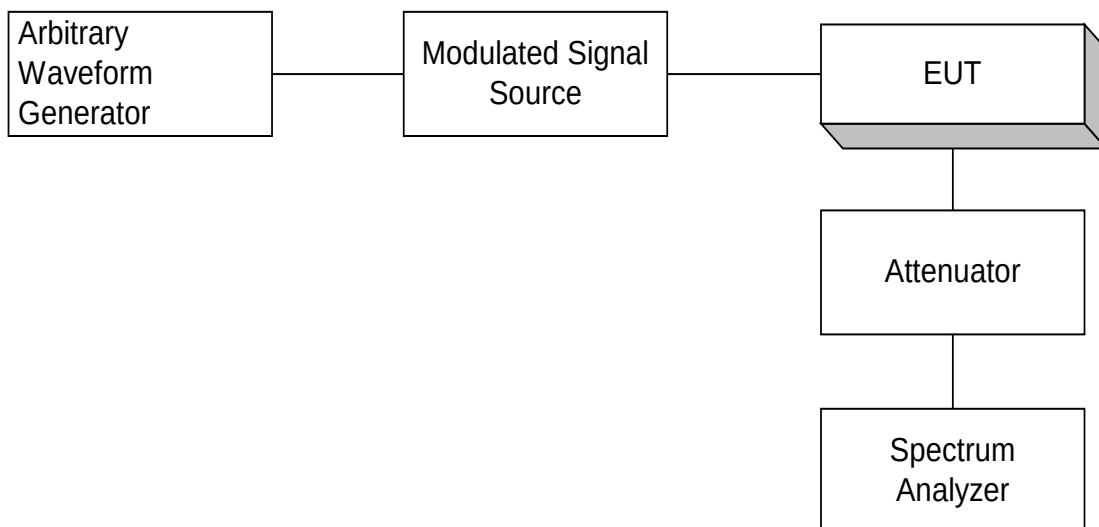
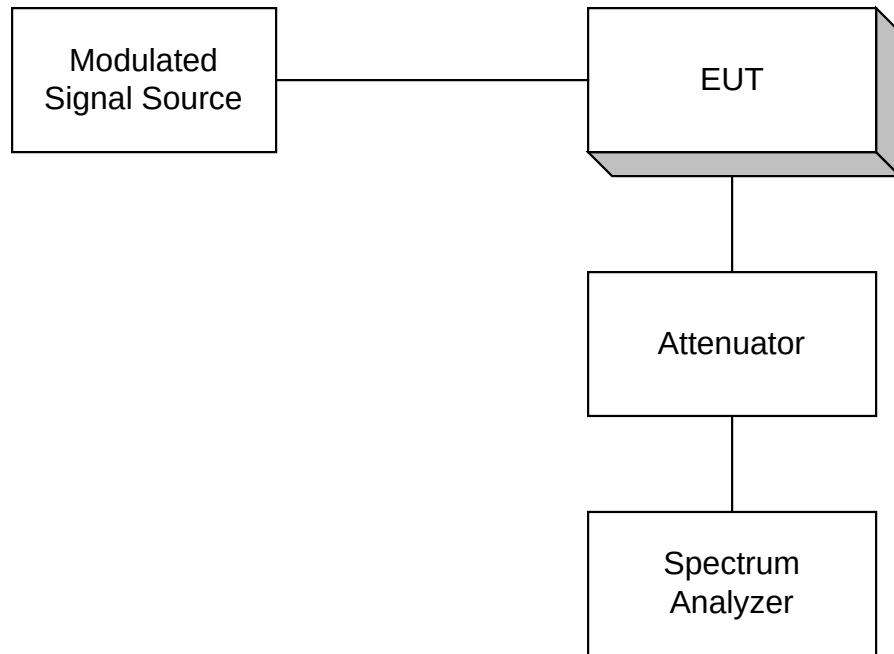
Para. No. 2.1046 - R.F. Power Output



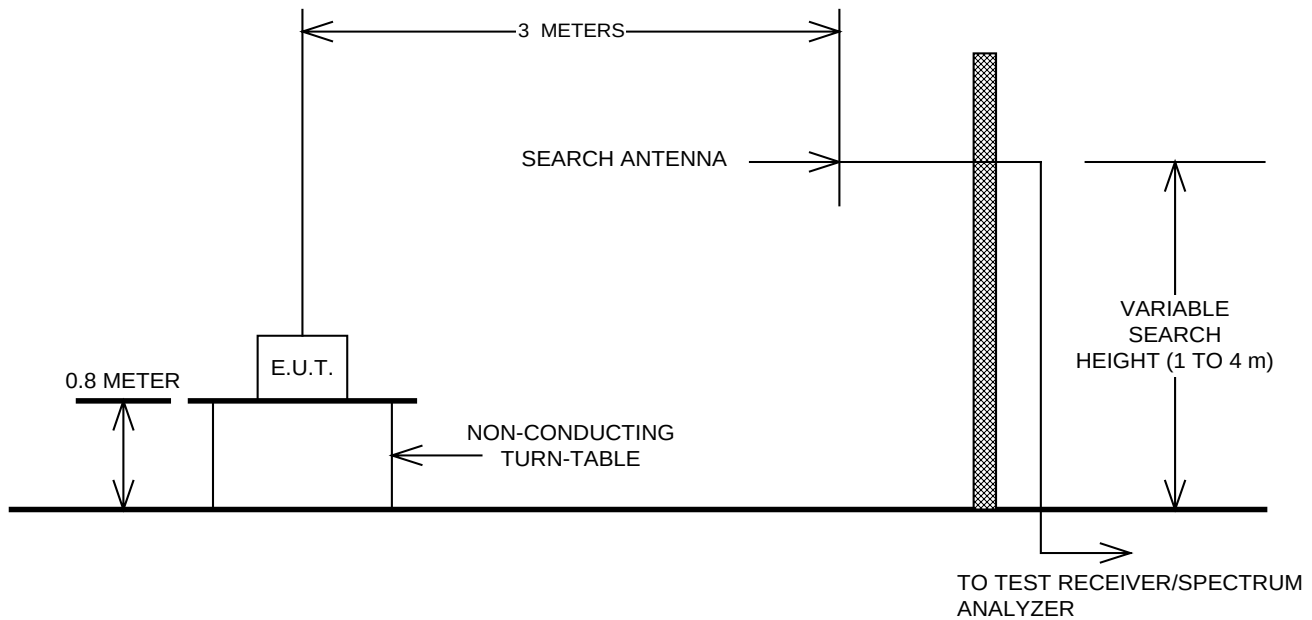
Para. No. 2.1049 - Occupied Bandwidth



Para. No. 2.1051 Spurious Emissions at Antenna Terminals



Para. No. 2.1053 - Field Strength of Spurious Radiation



Para. No. 2.1055 - Frequency Stability

