

SGS-CSTC Standards Technical Services Co., Ltd.

1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
Yishan Road, Xuhui District, Shanghai, China

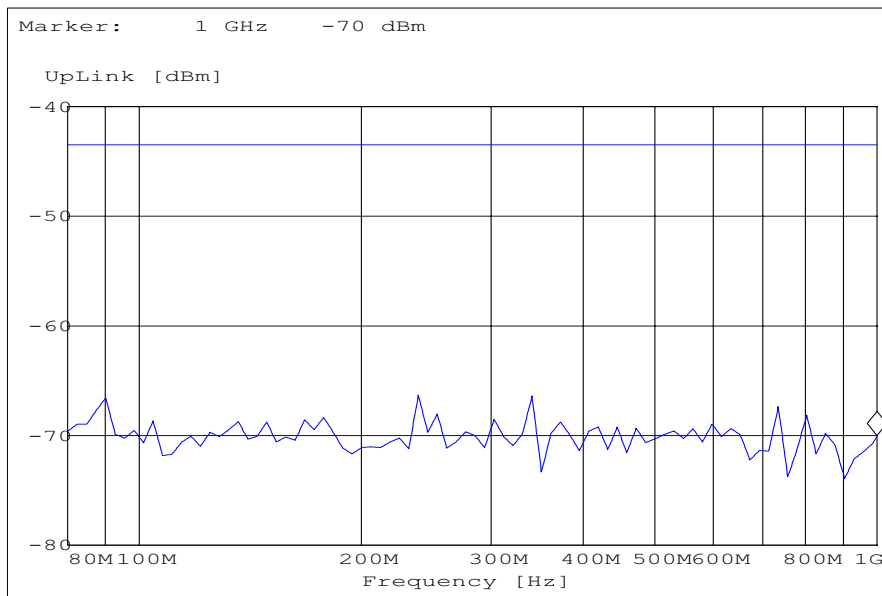
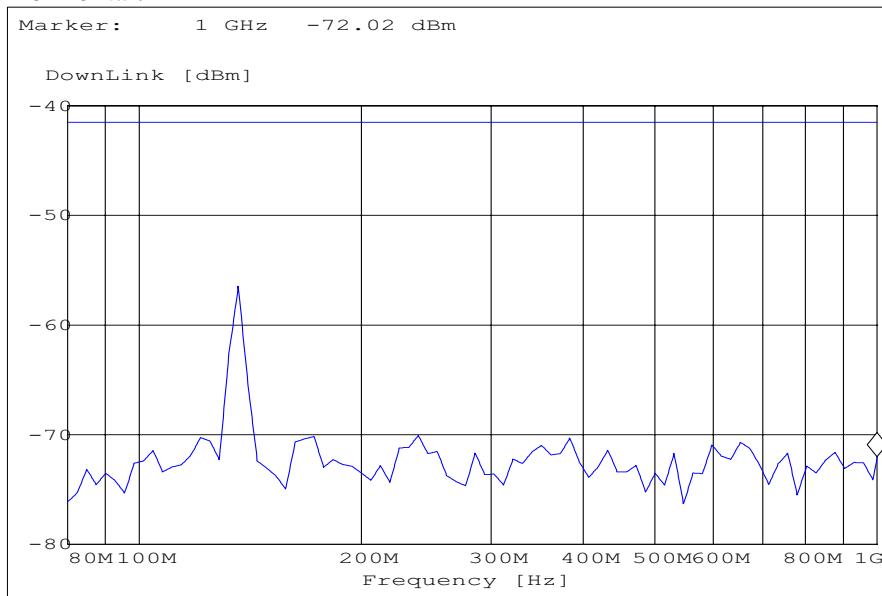
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Tino.Pan@sgs.com

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Power Supply1:

GSM 850 charging with adaptor:

Horizontal:

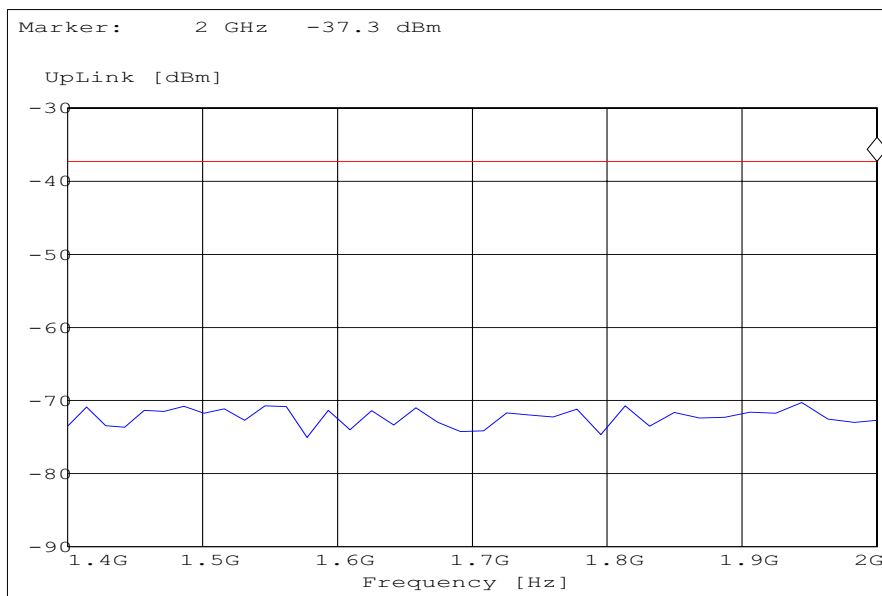
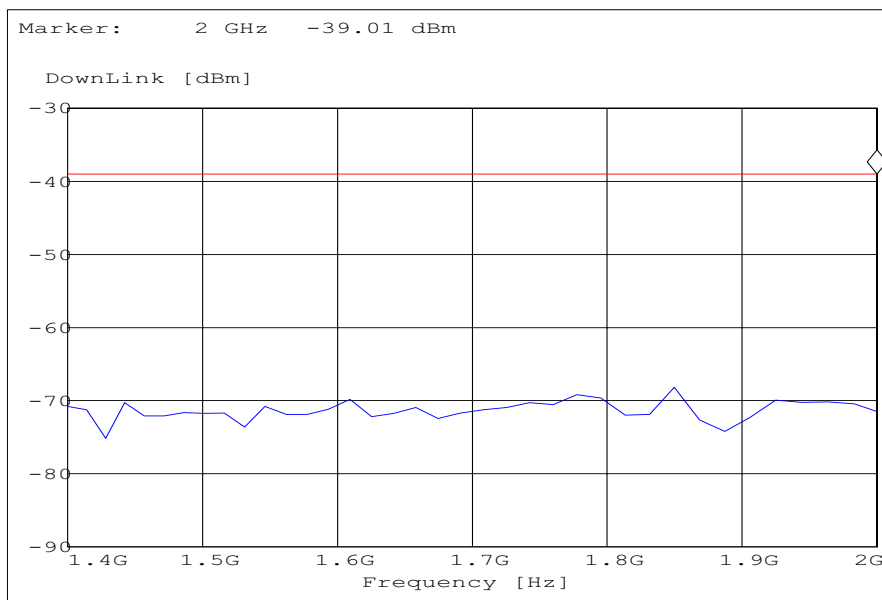


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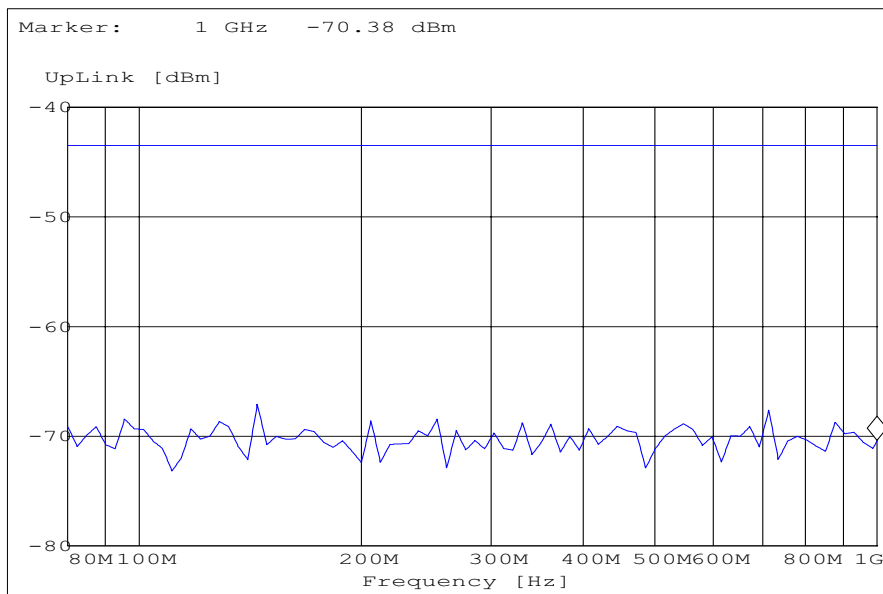
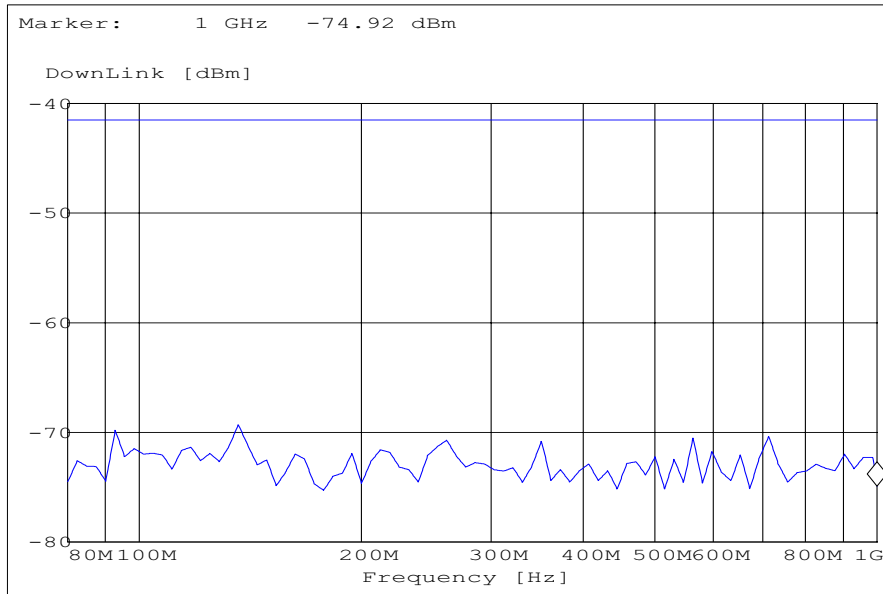
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Vertical:

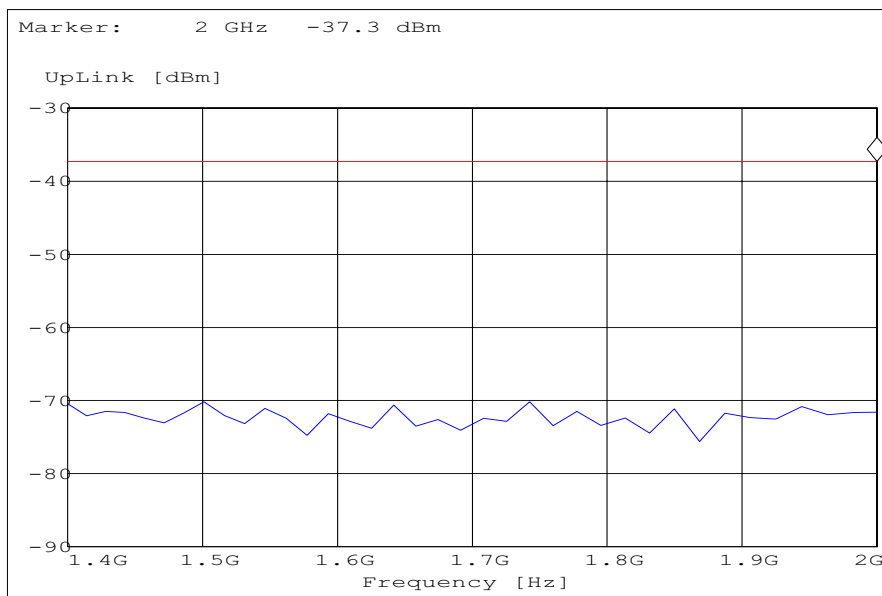
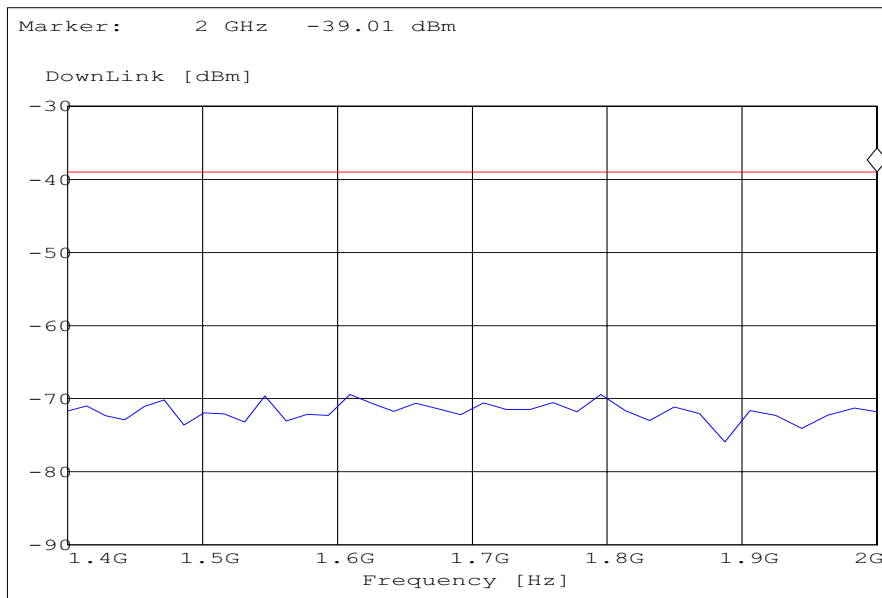


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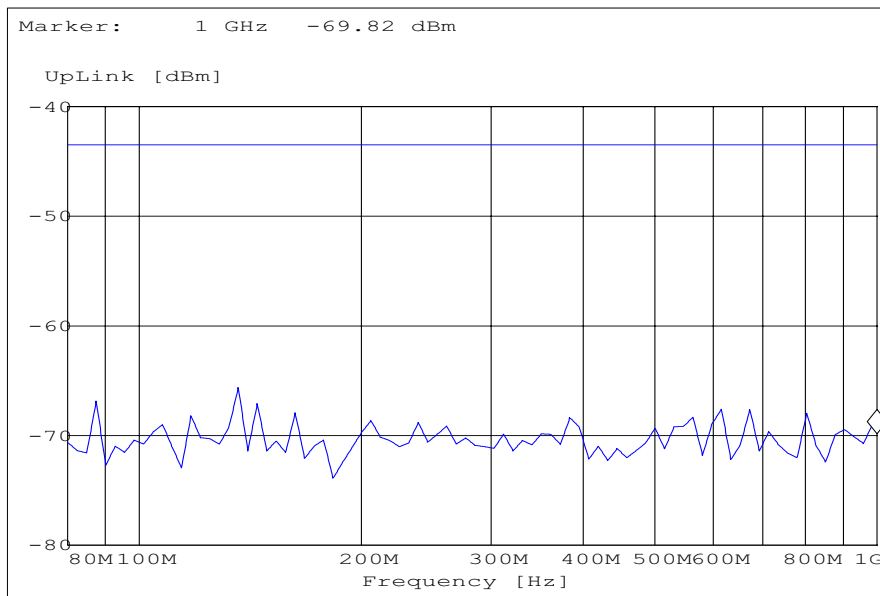
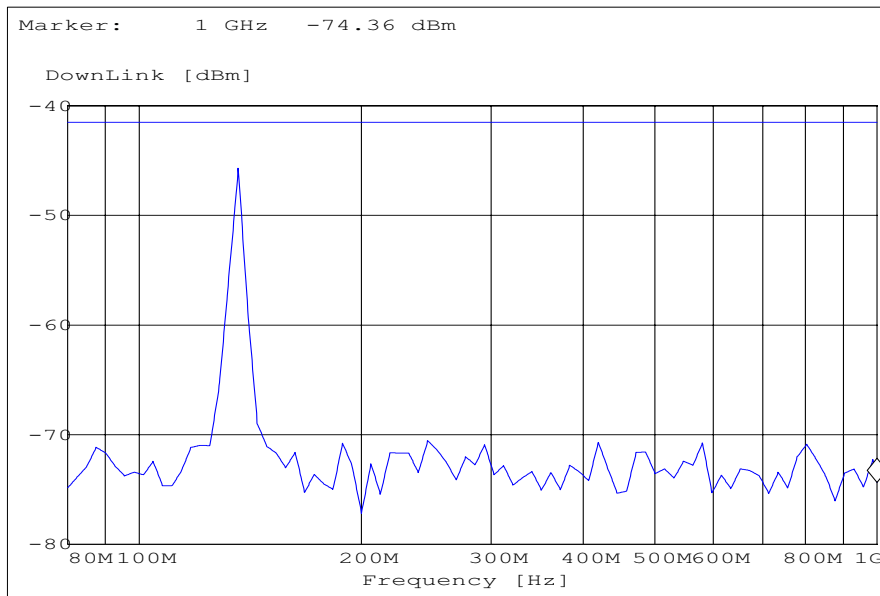
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PCS 1900 charging with adaptor:

Horizontal:

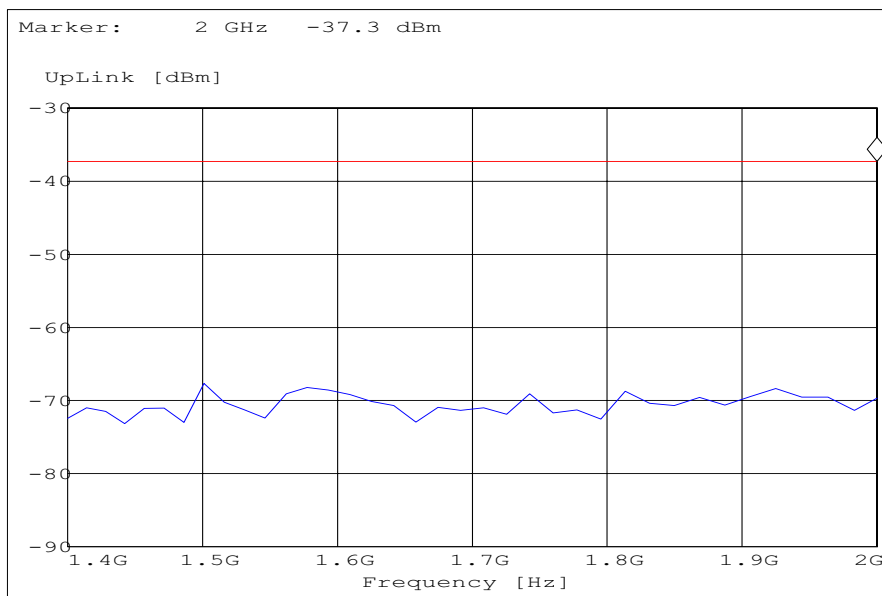
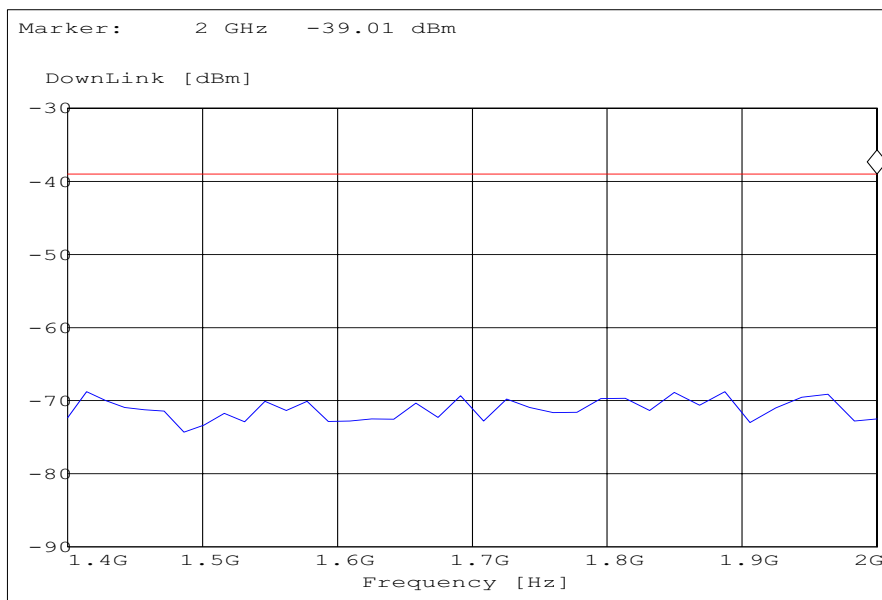


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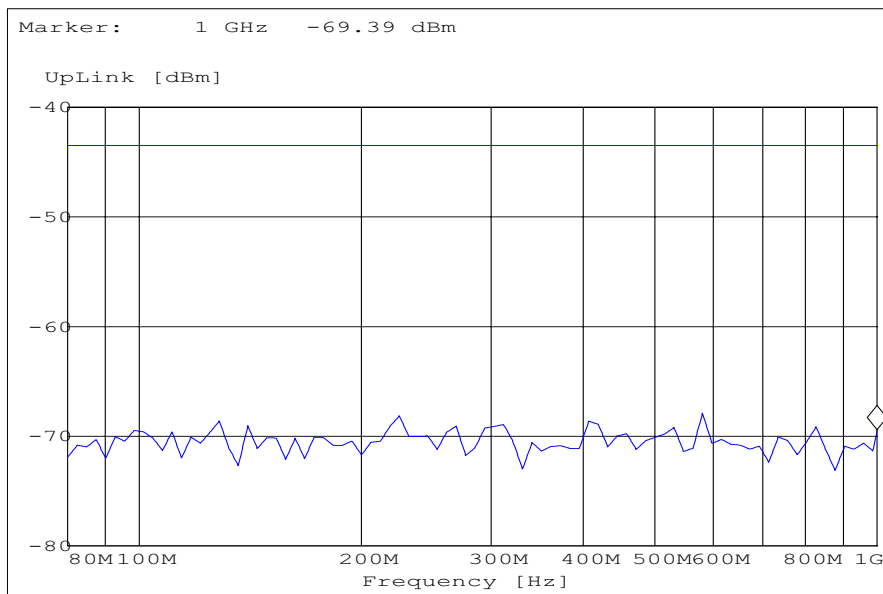
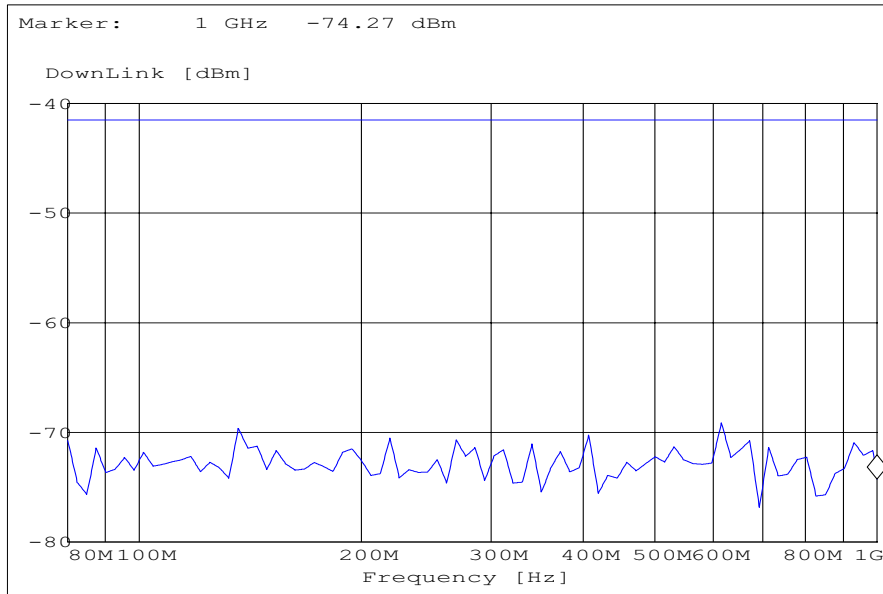
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Vertical:

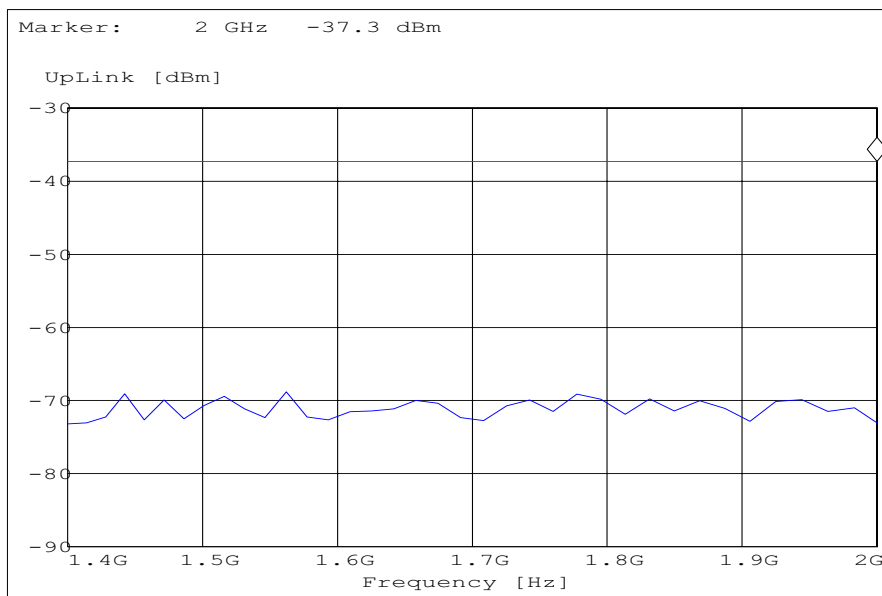
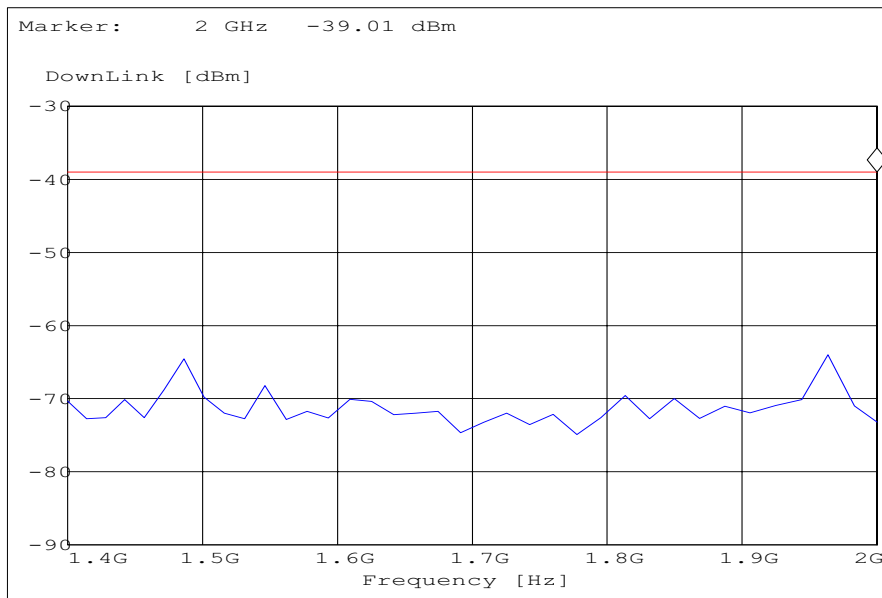


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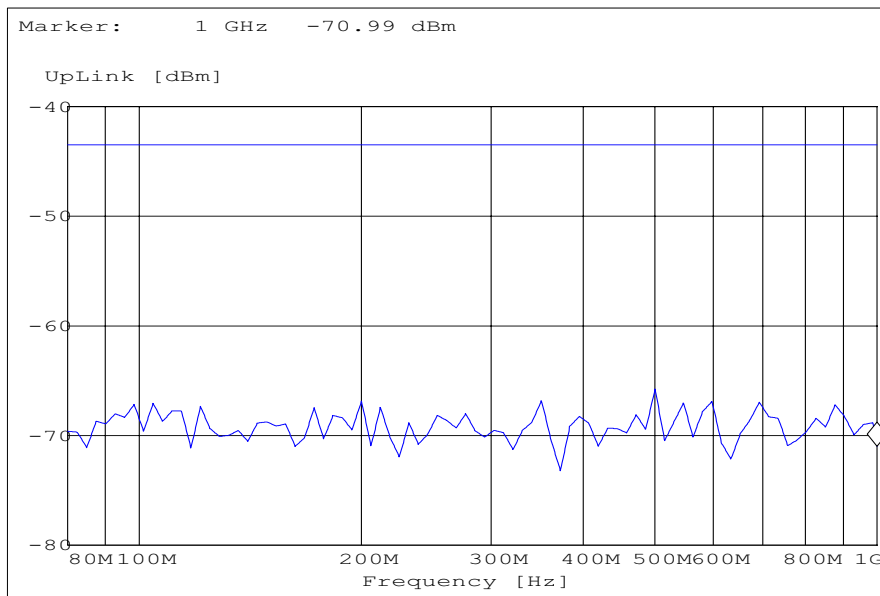
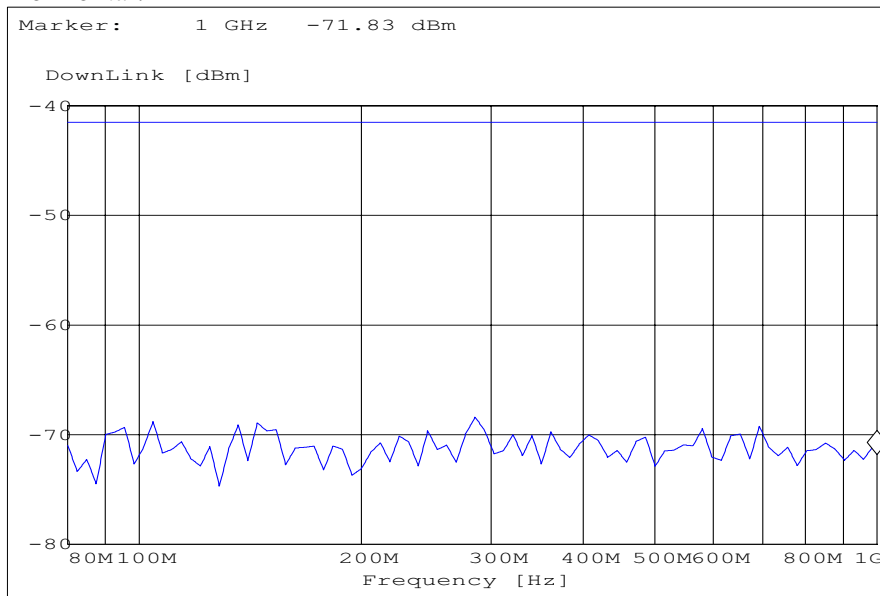
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Power Supply2:

GSM 850 charging with adaptor:

Horizontal:

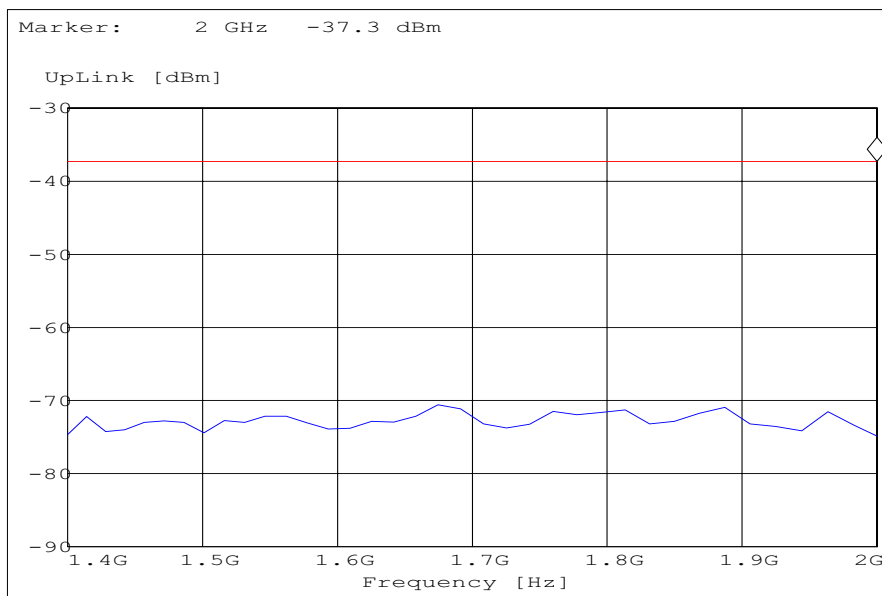
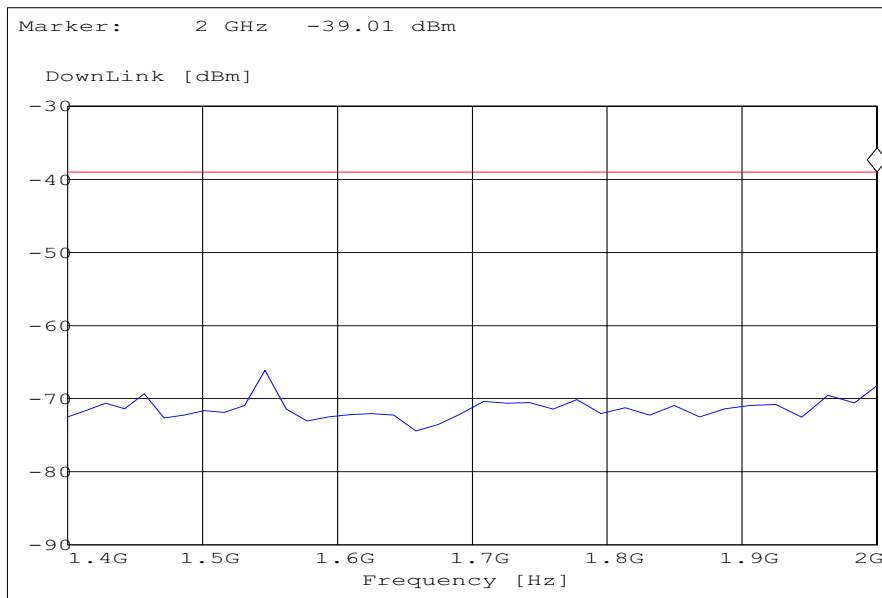


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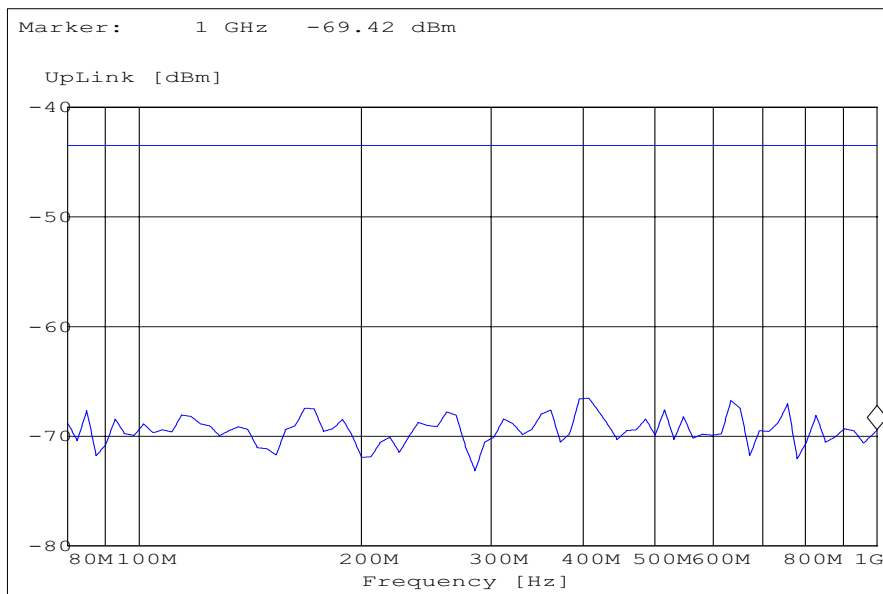
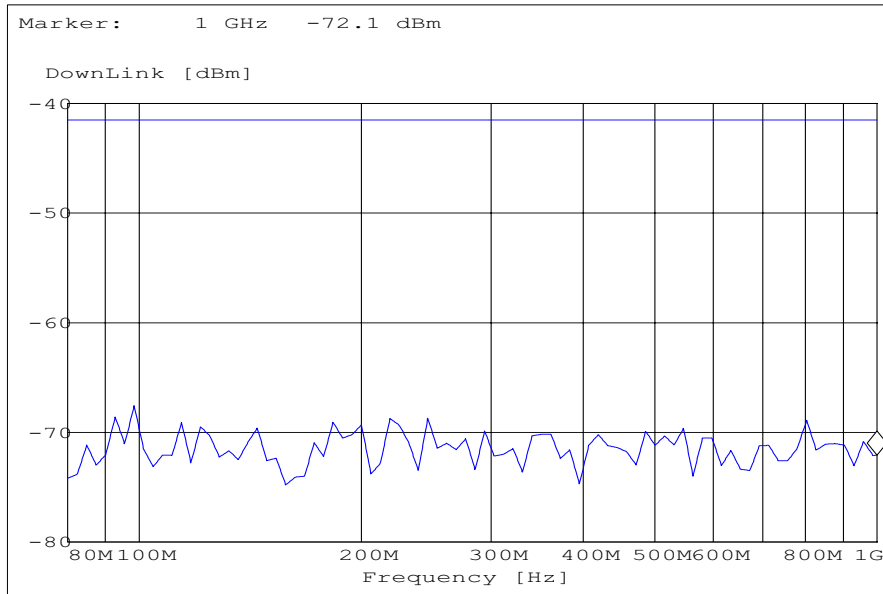
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Vertical:



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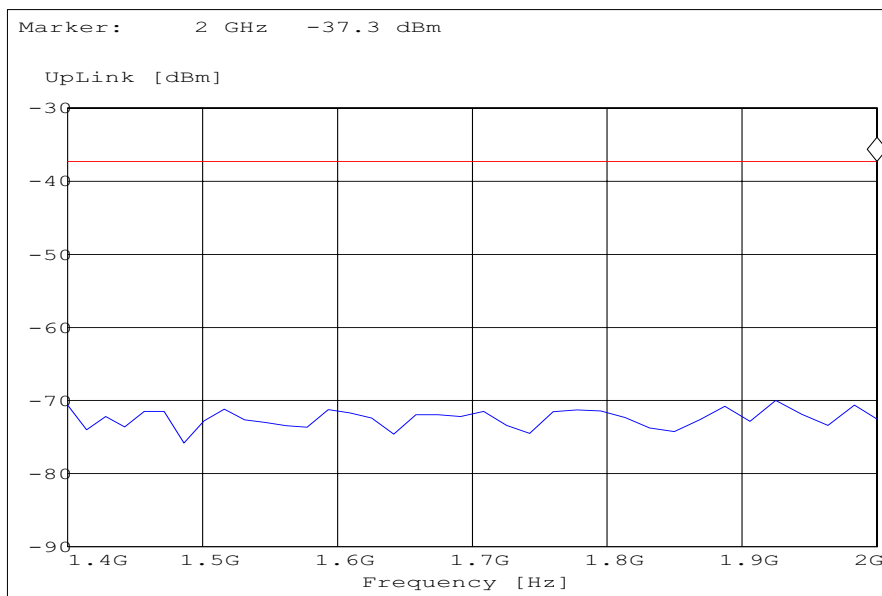
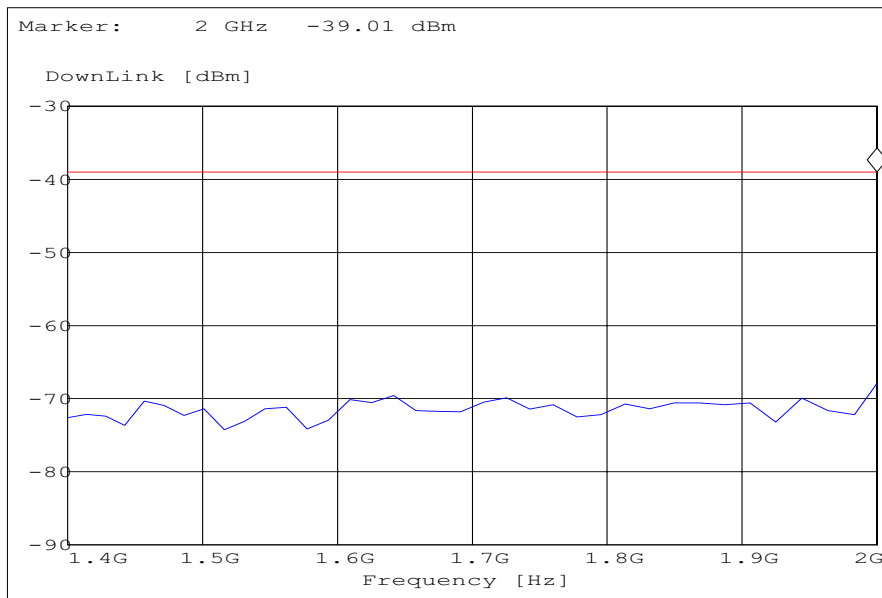
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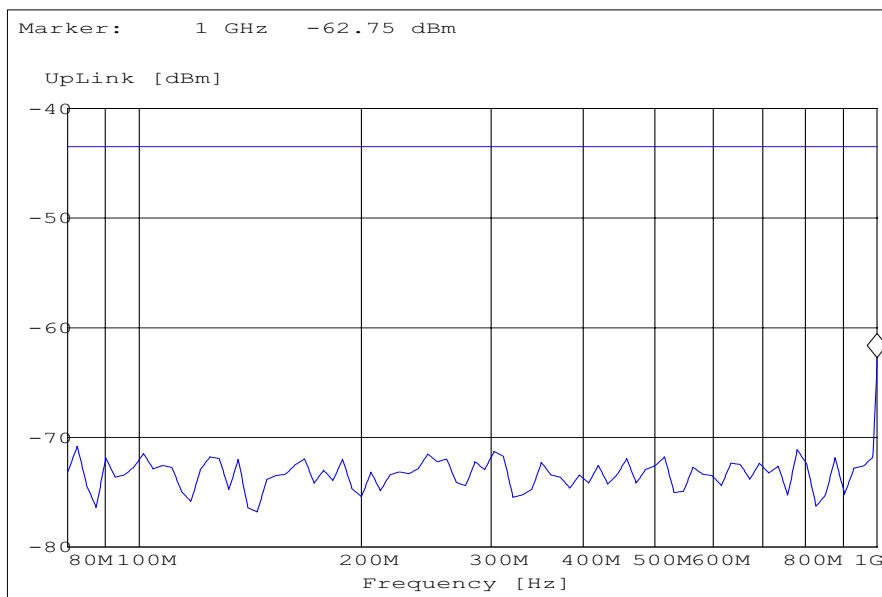
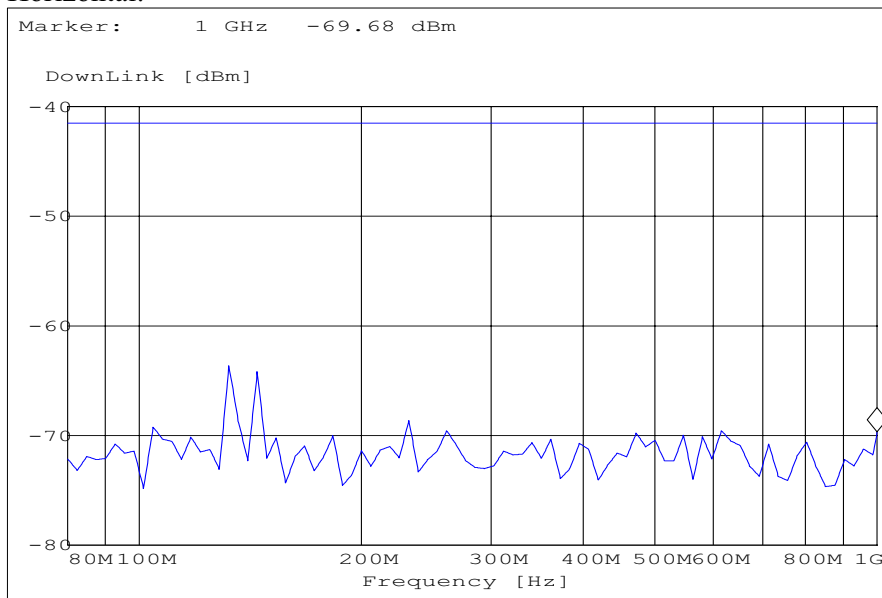
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PCS 1900 charging with adaptor:

Horizontal:

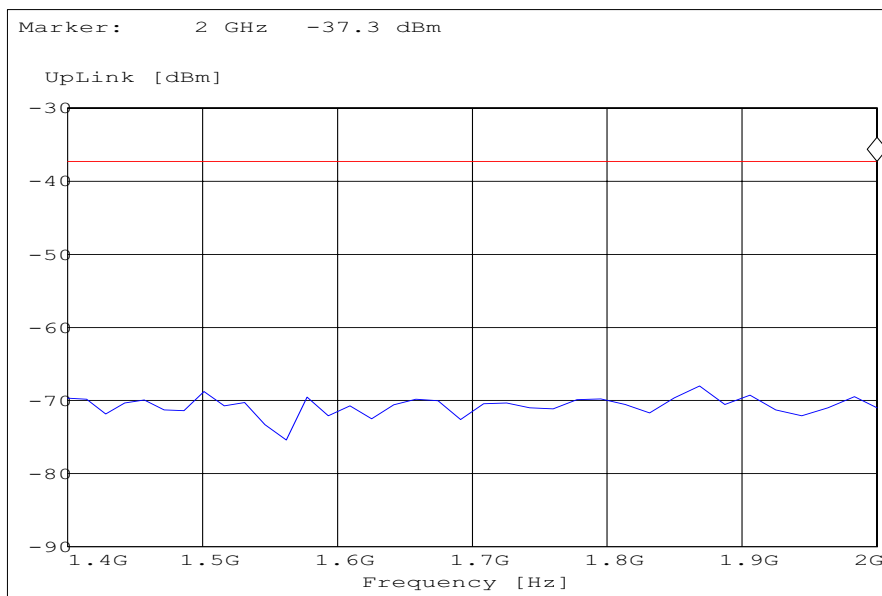
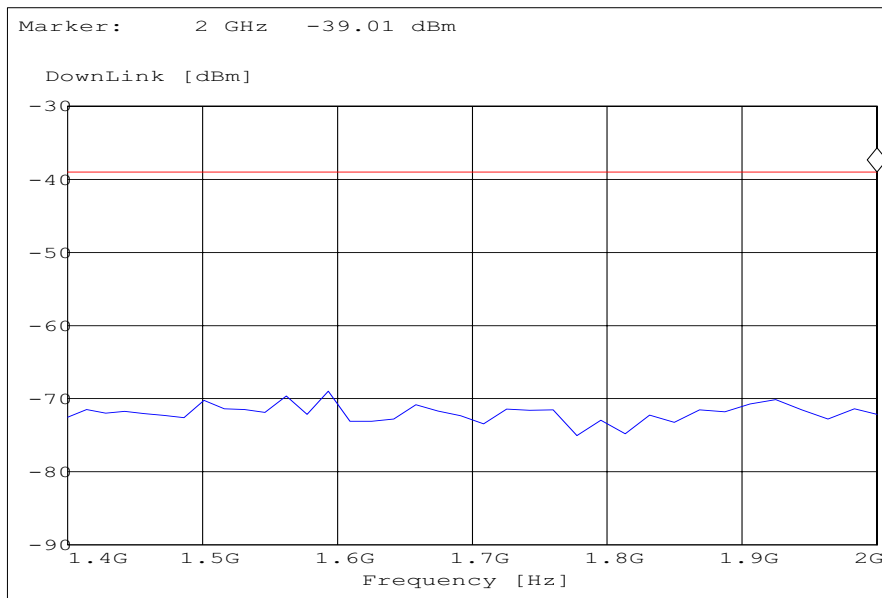


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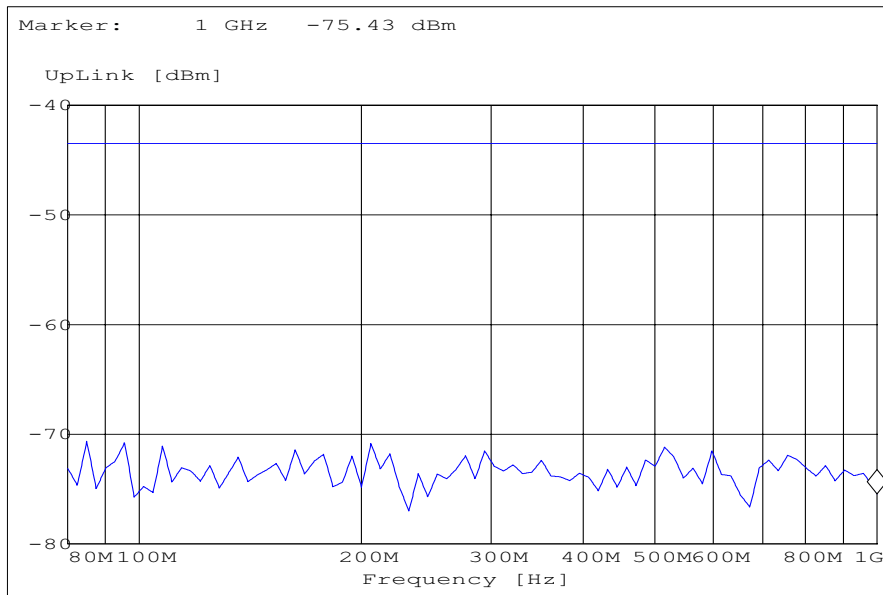
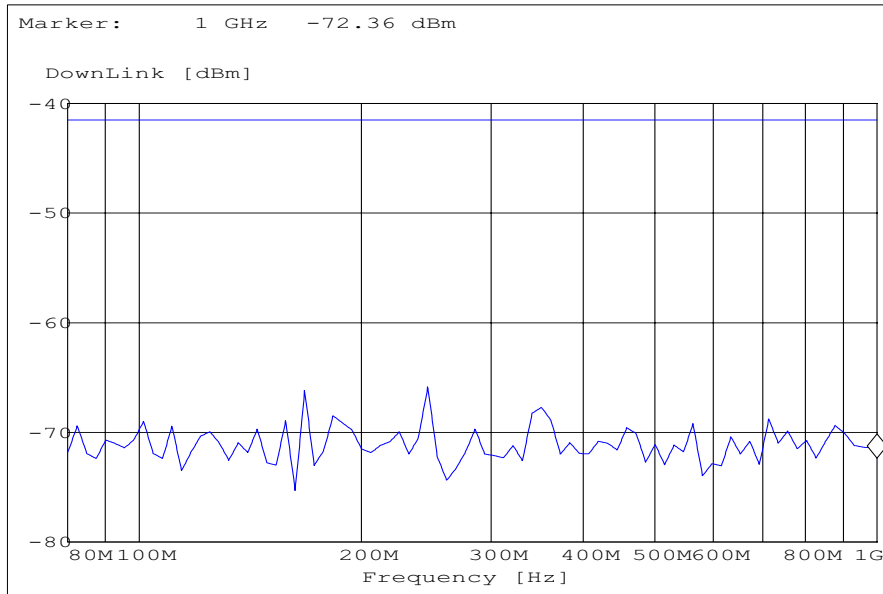
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Vertical:

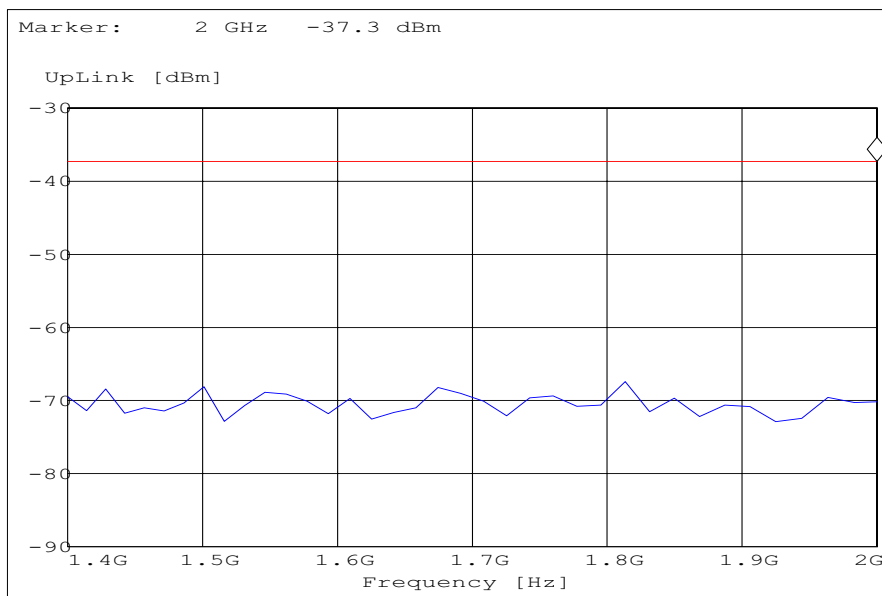
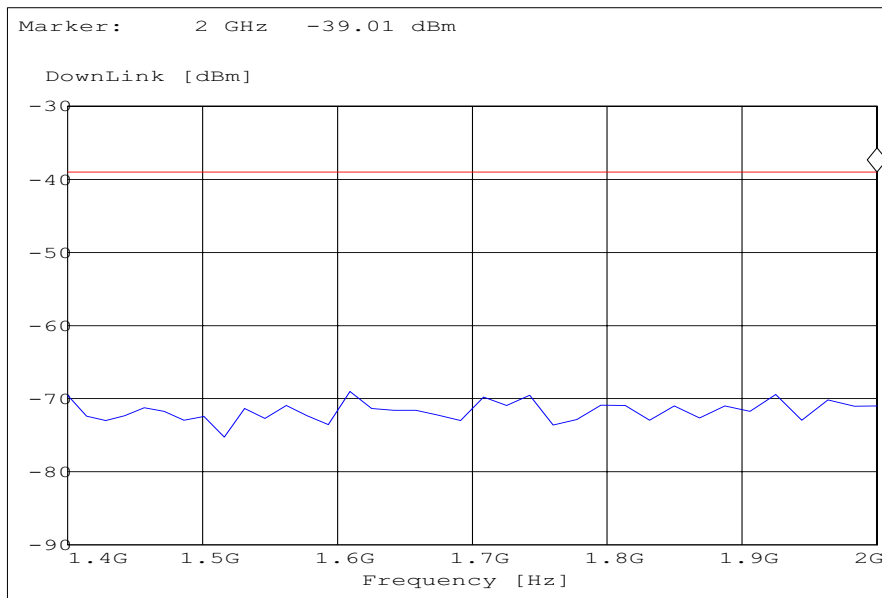


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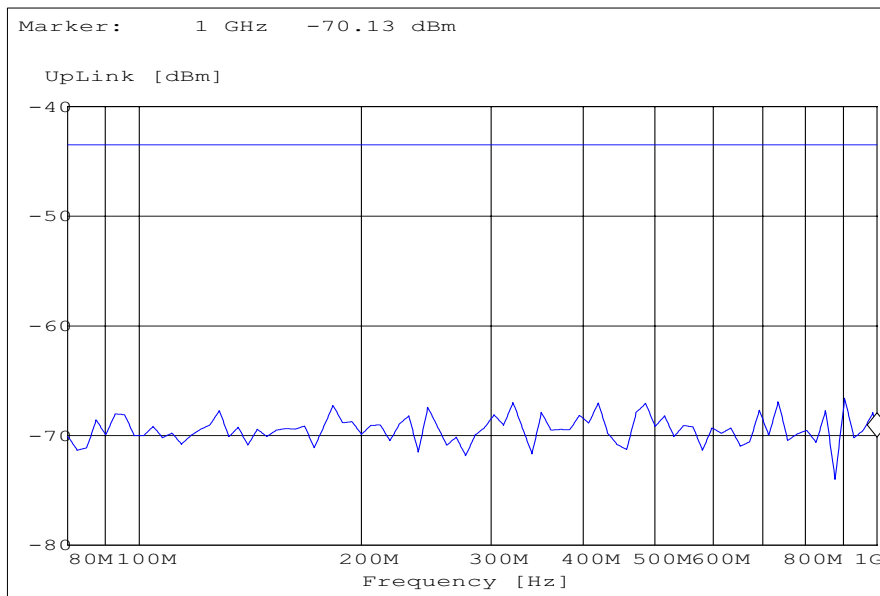
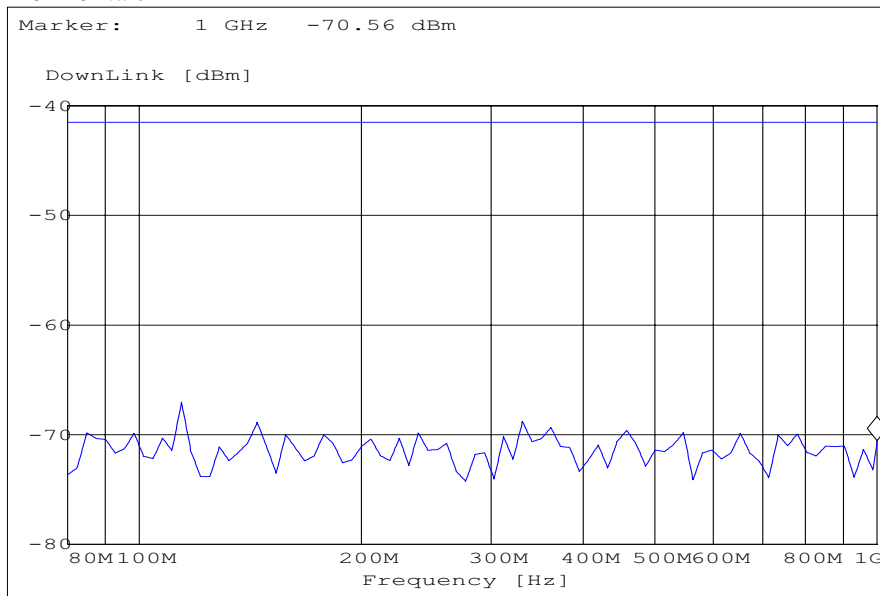
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Power Supply3:

GSM 850 charging with adaptor:

Horizontal:



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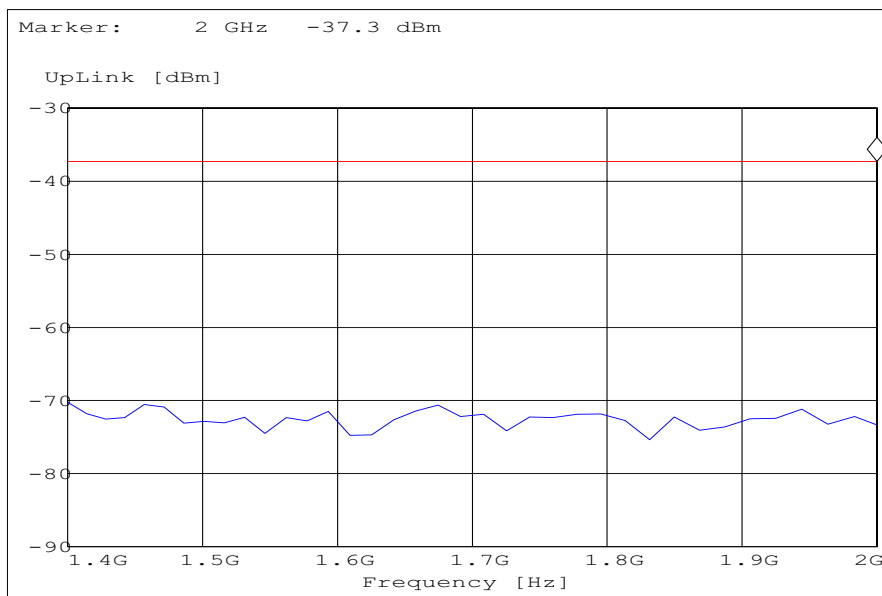
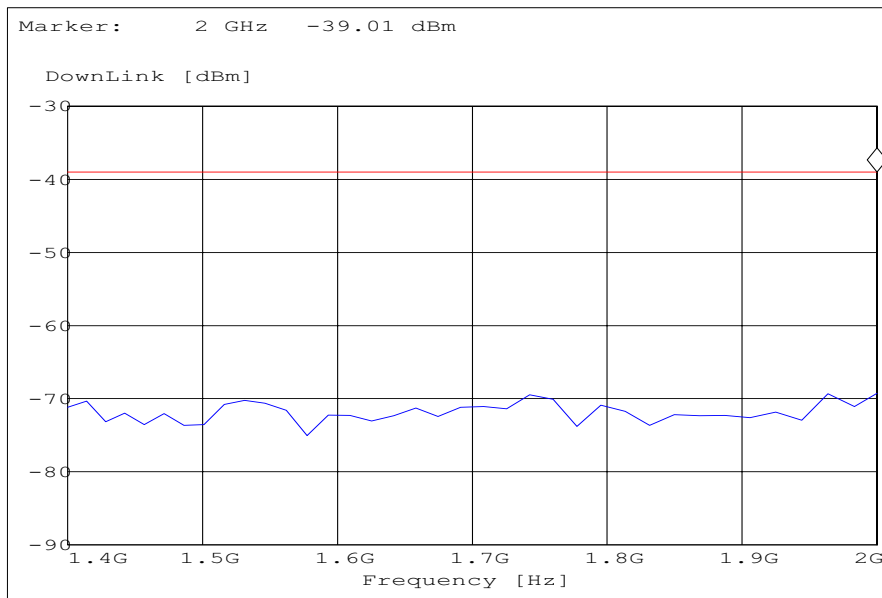
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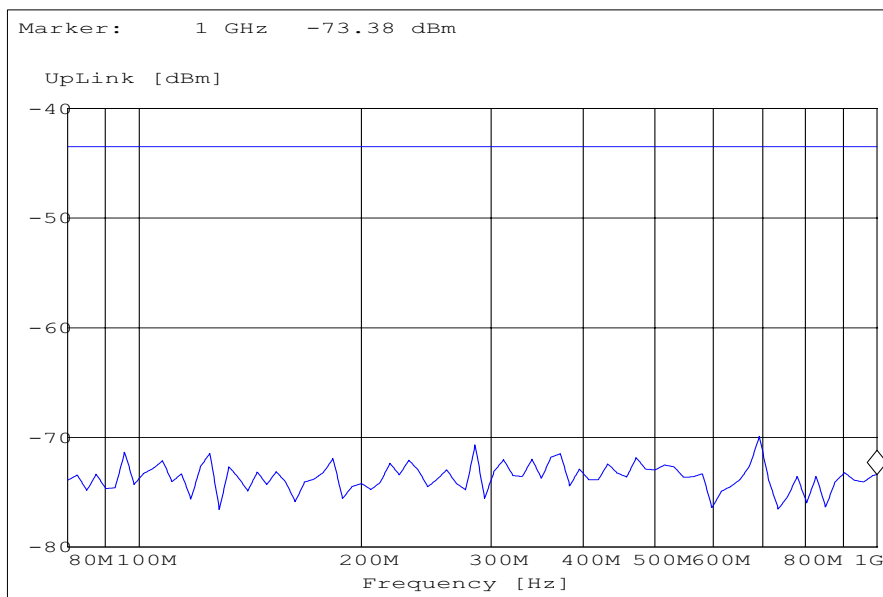
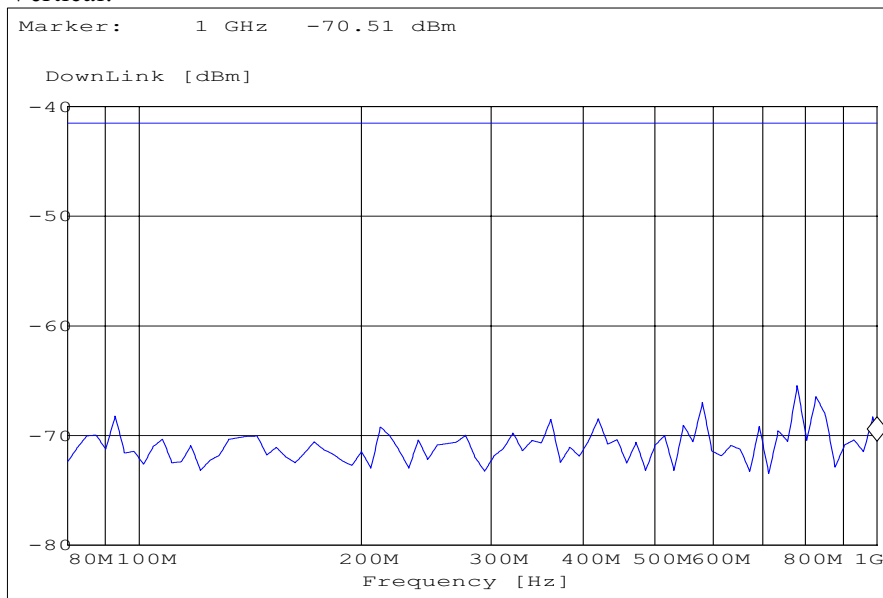
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Vertical:

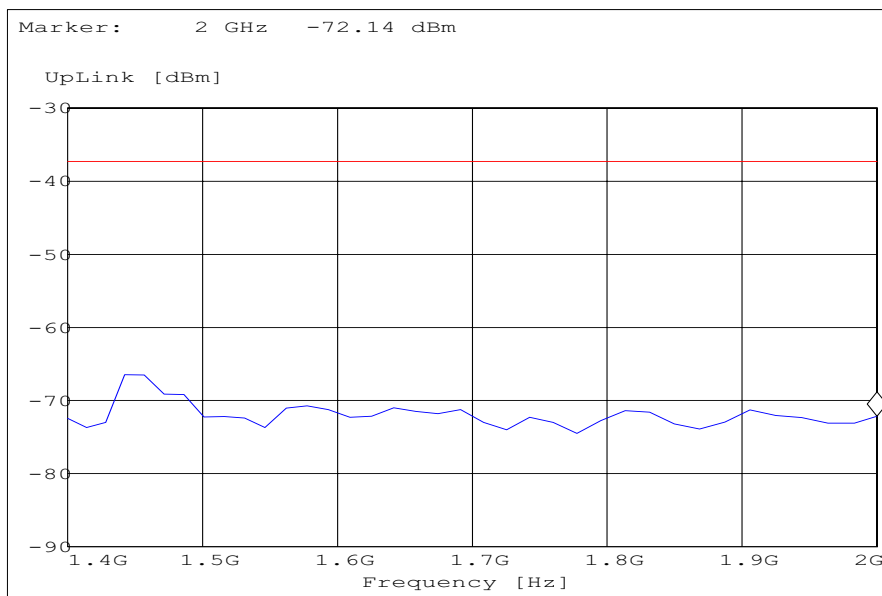
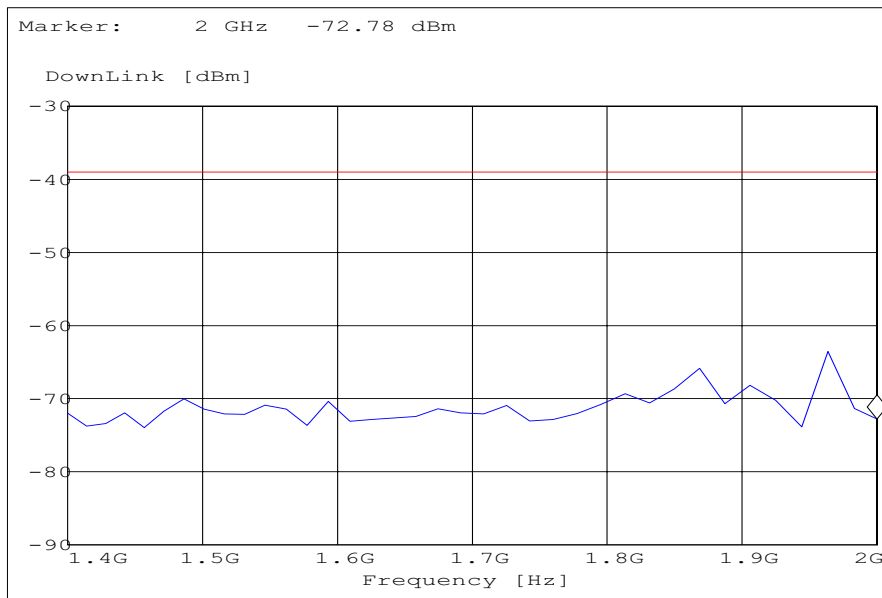


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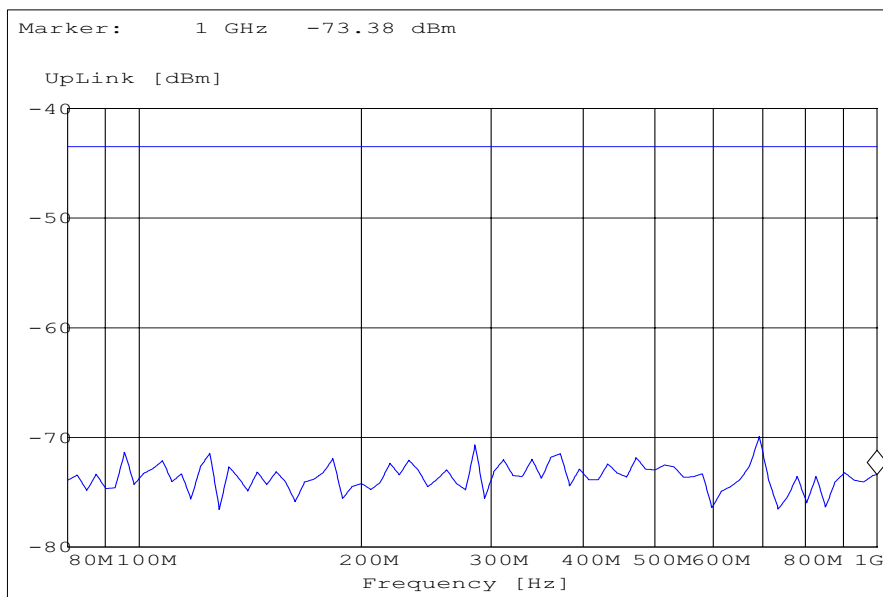
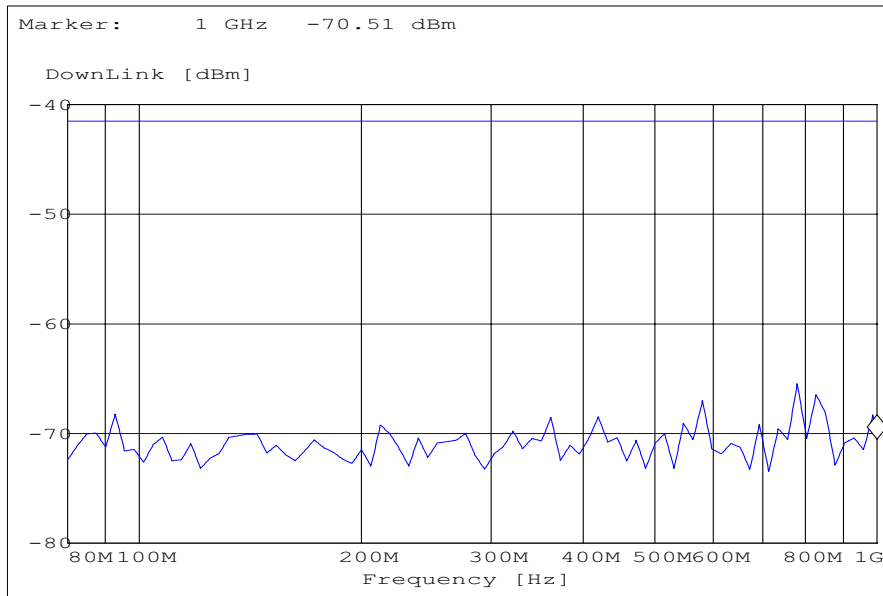
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PCS 1900 charging with adaptor:

Horizontal:

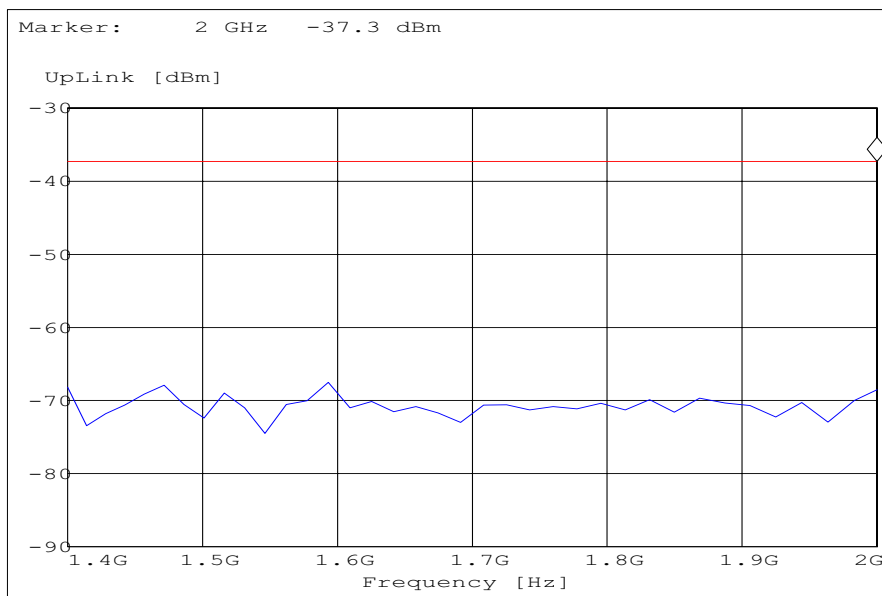
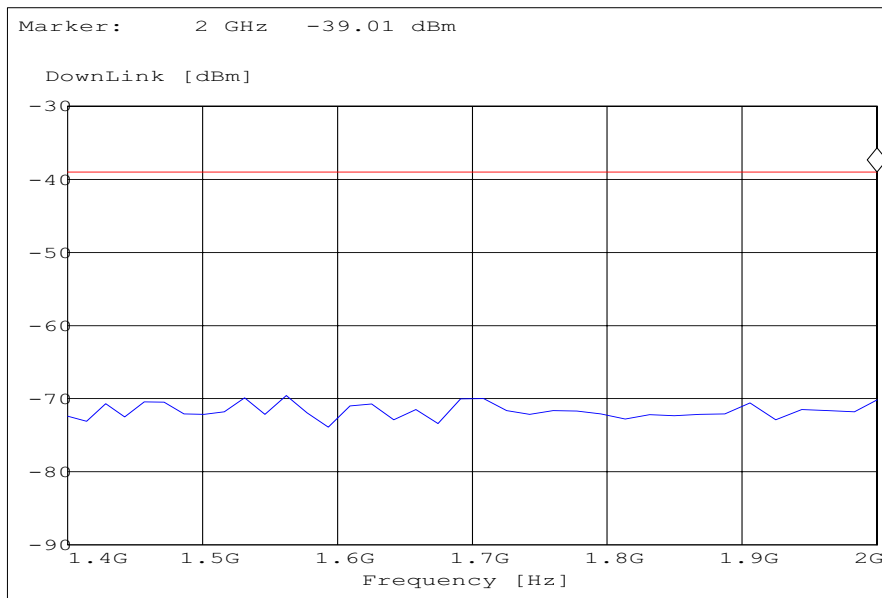


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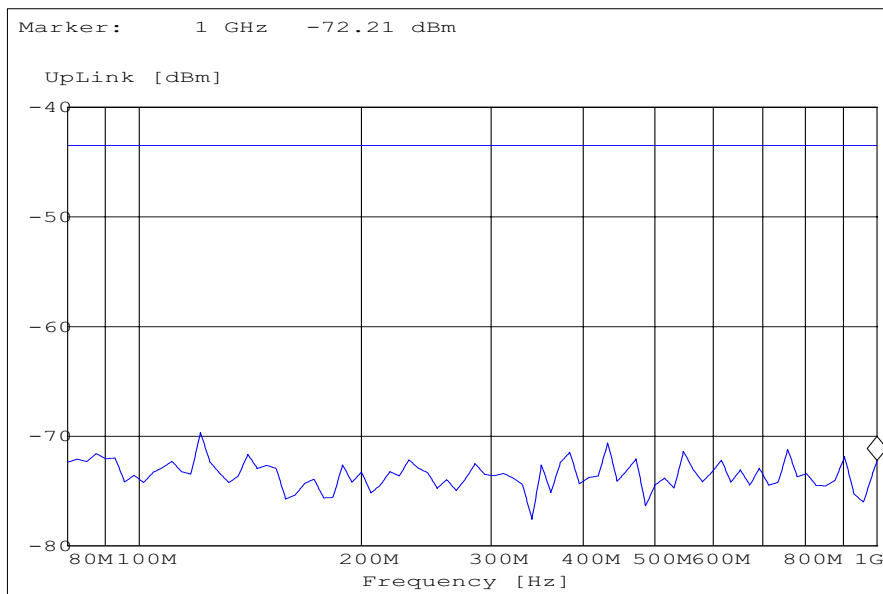
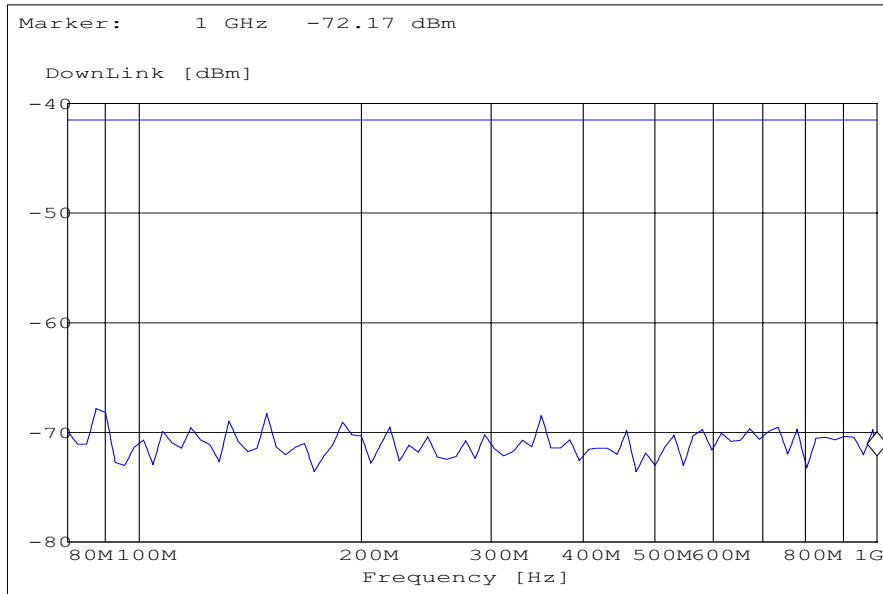
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Vertical:

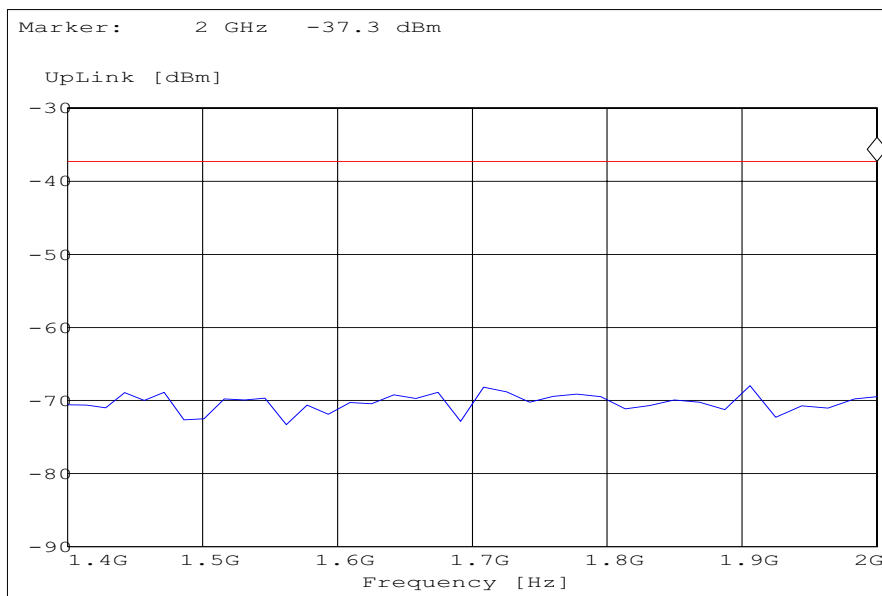
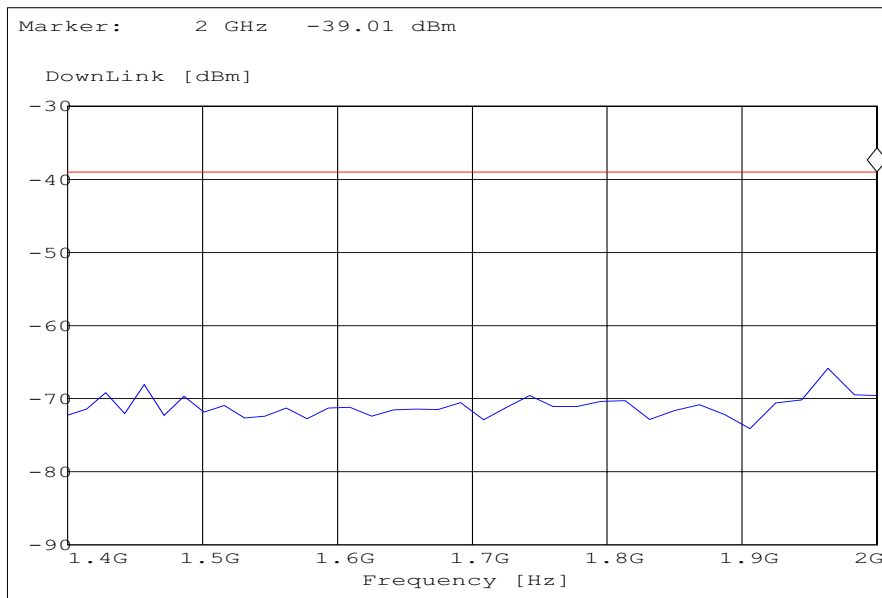


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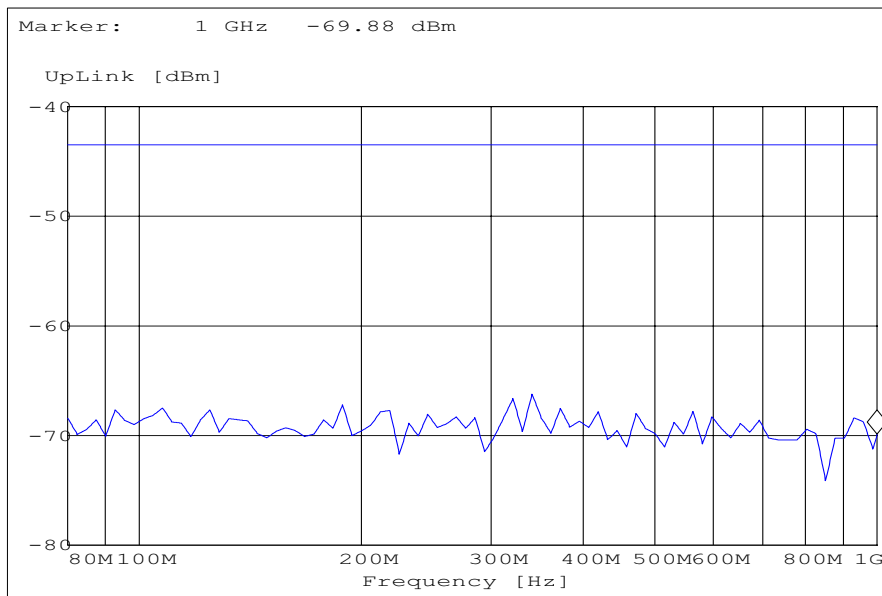
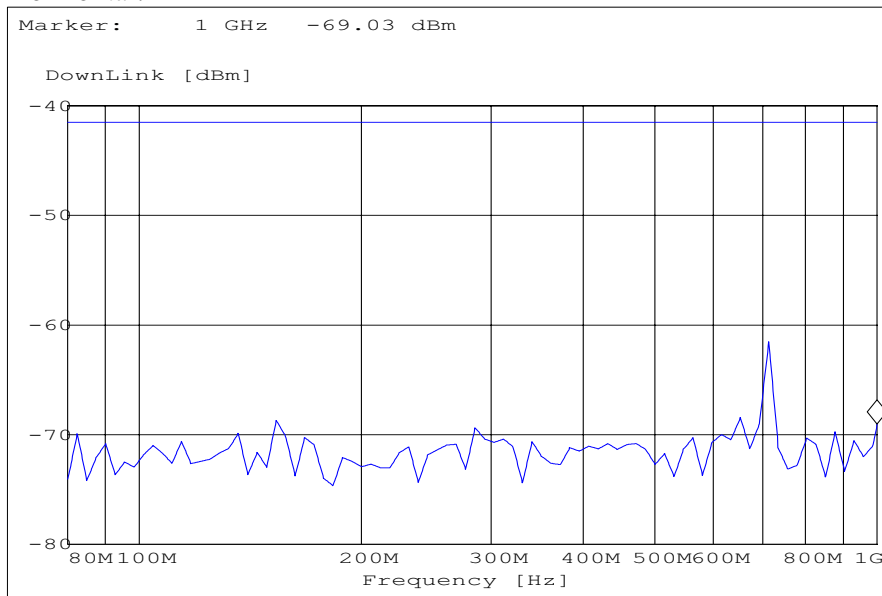
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Power Supply4:

GSM 850 charging with adaptor:

Horizontal:

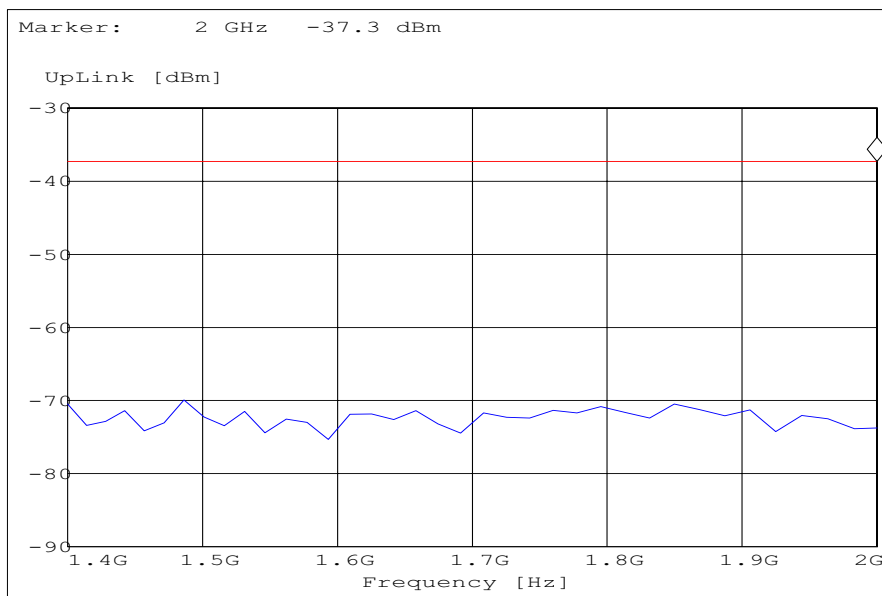
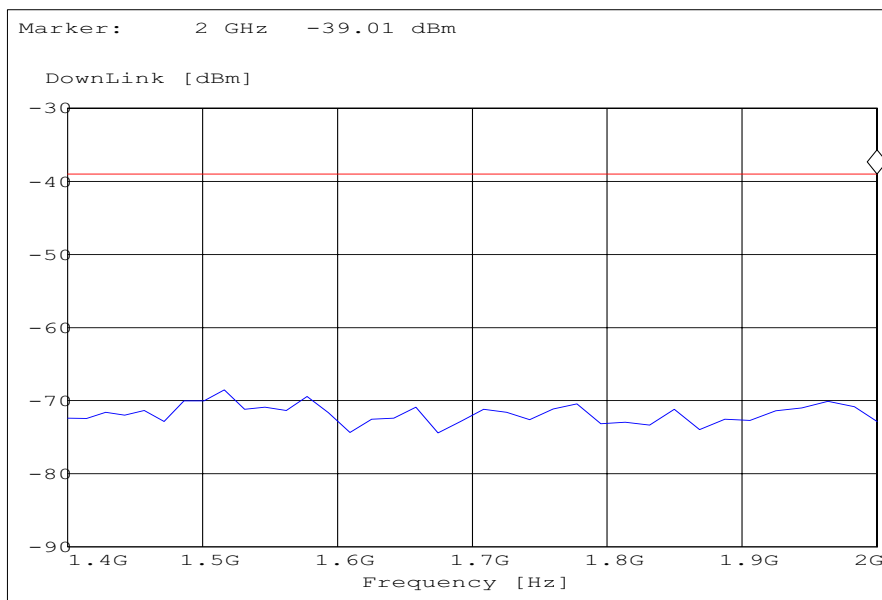


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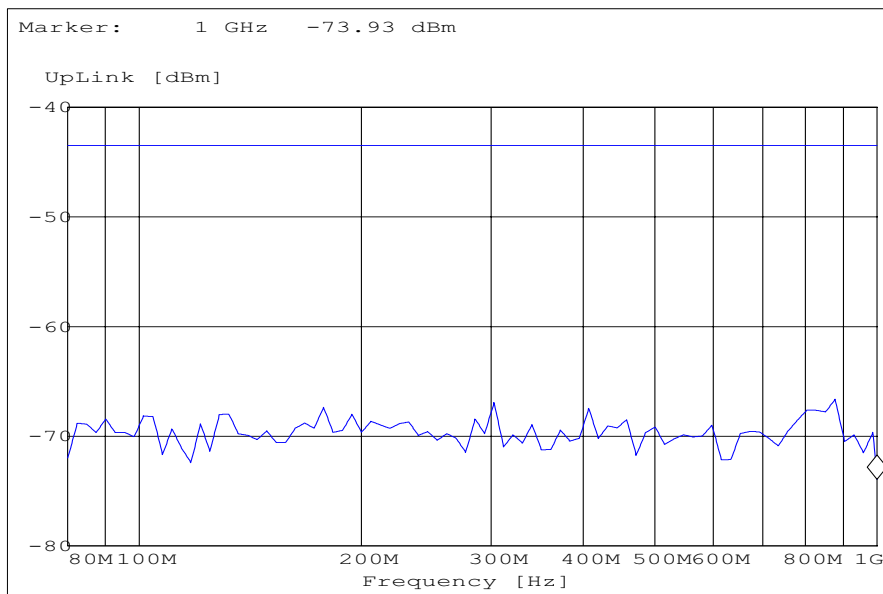
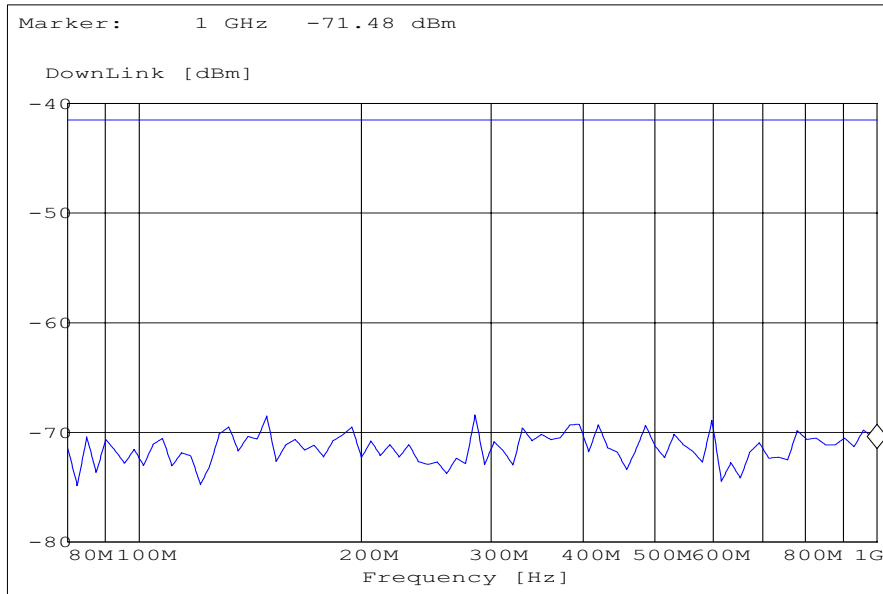
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Vertical:



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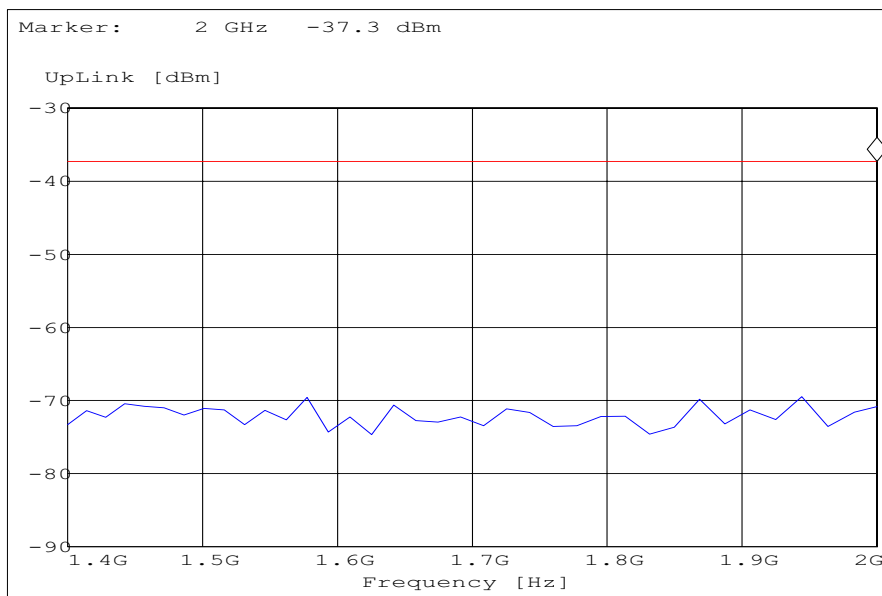
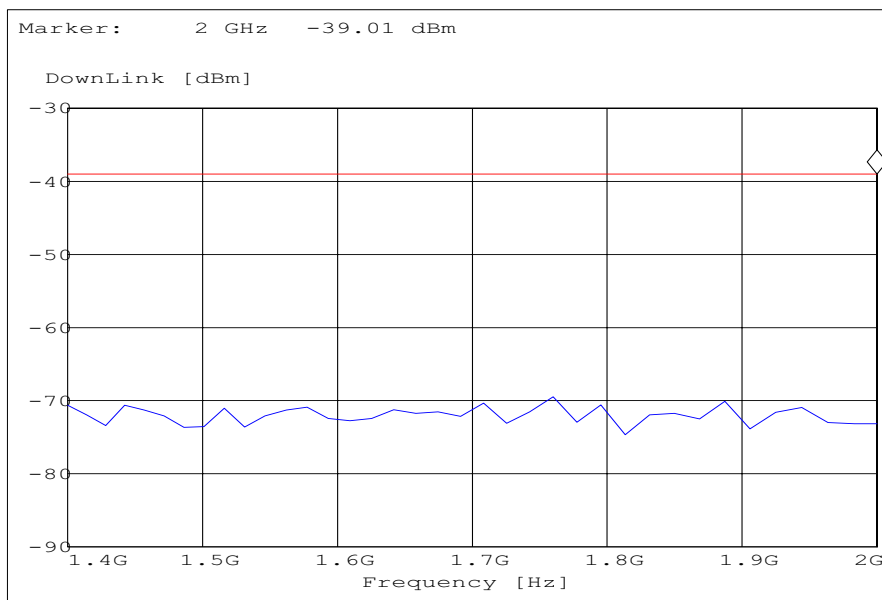
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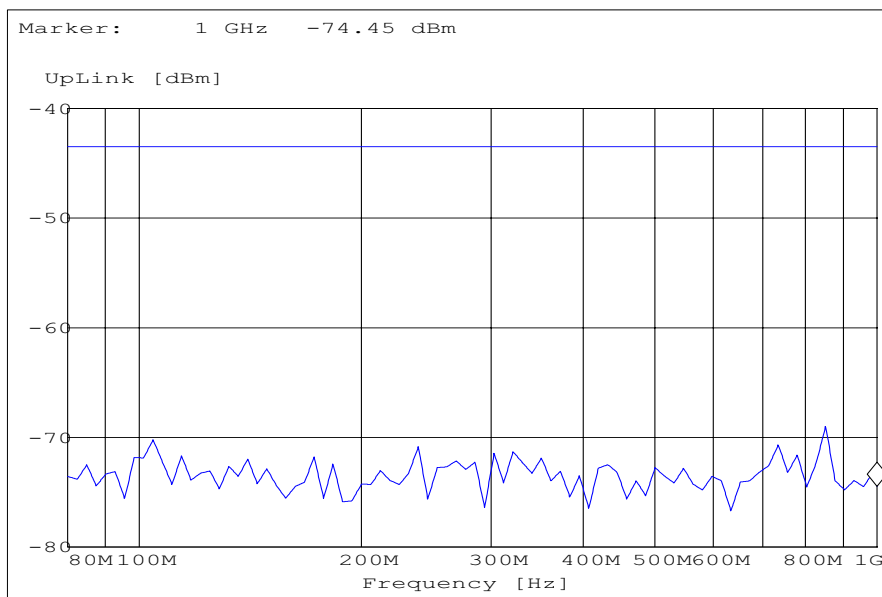
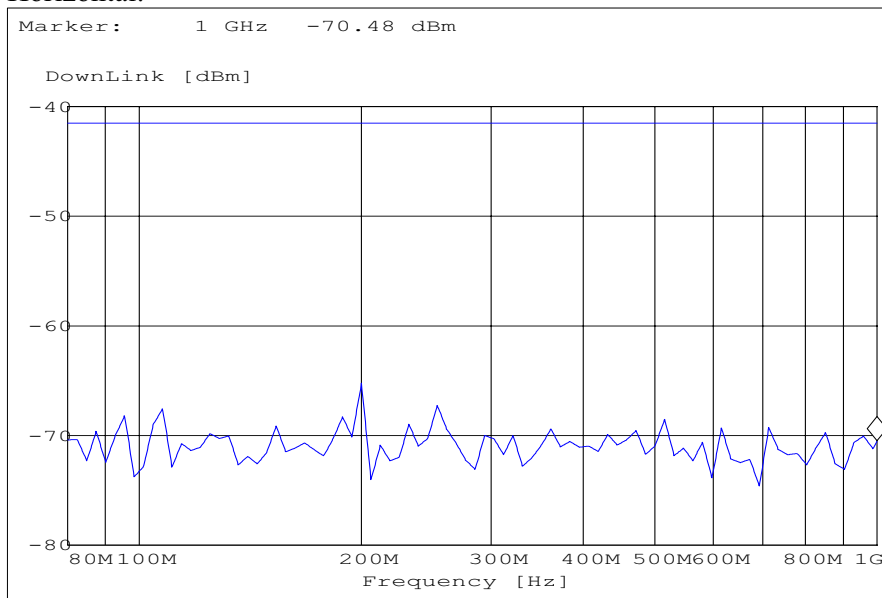
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Telephone: +86 (0) 21 6495 1616
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Tino.Pan@sgs.com

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PCS 1900 charging with adaptor:

Horizontal:

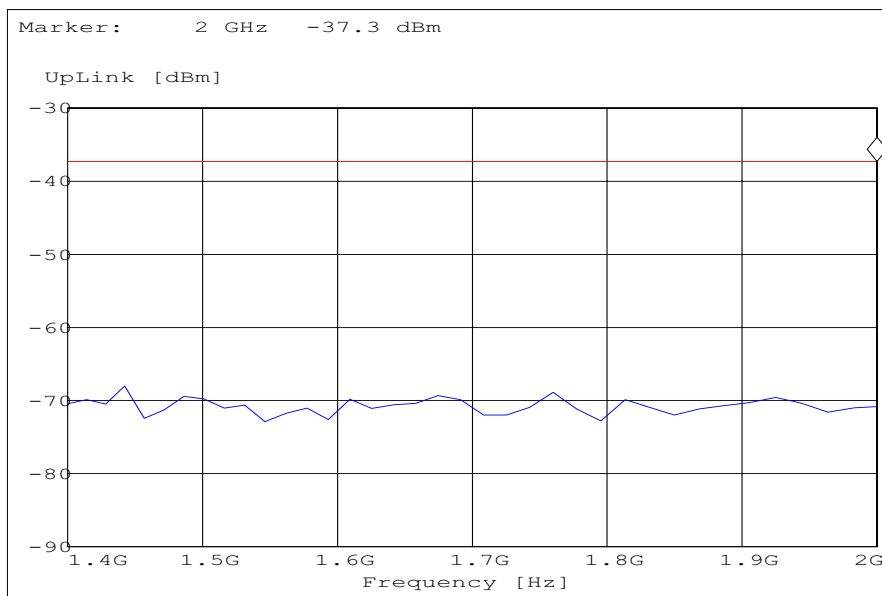
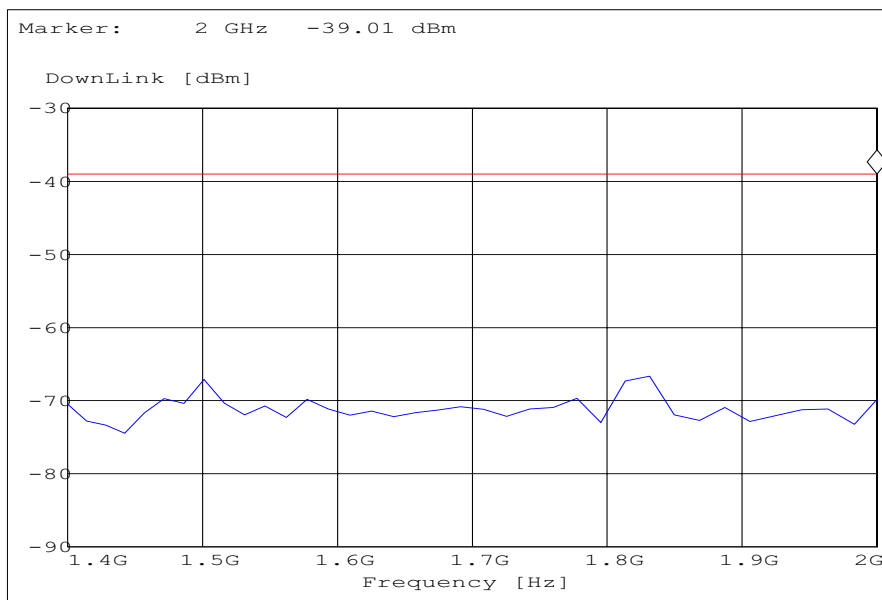


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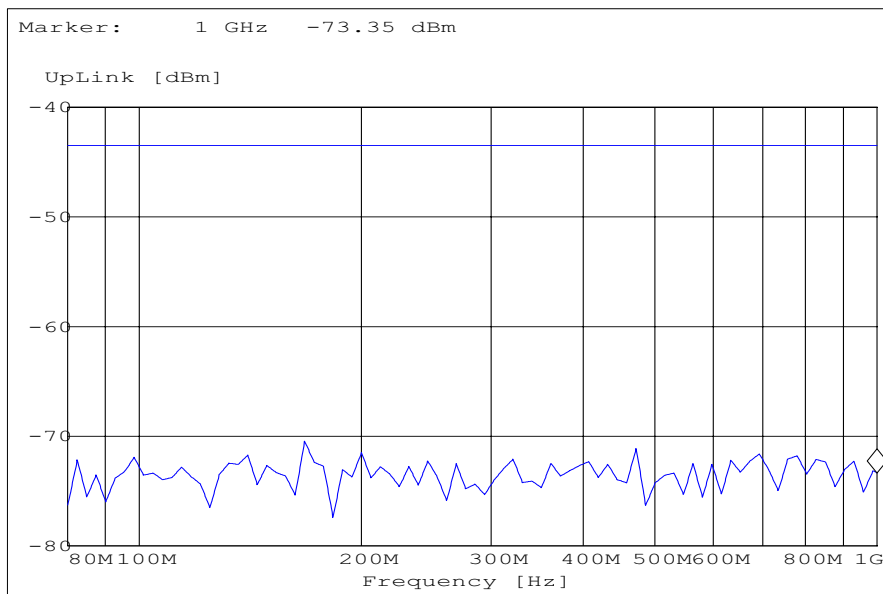
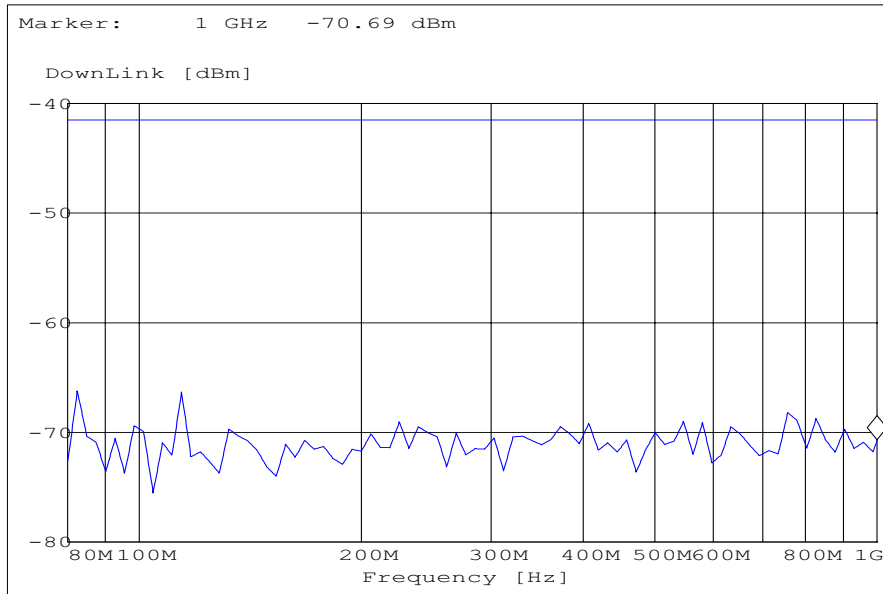
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Vertical:

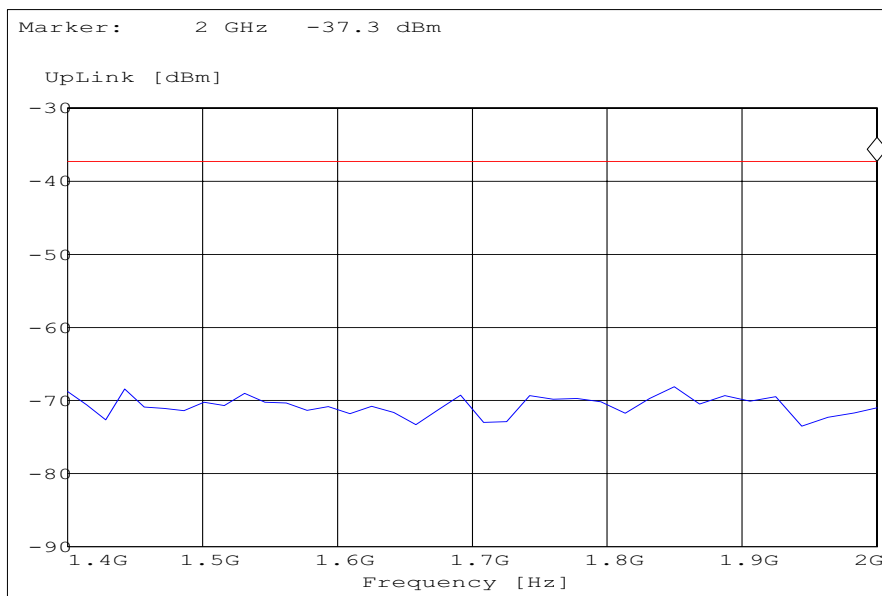
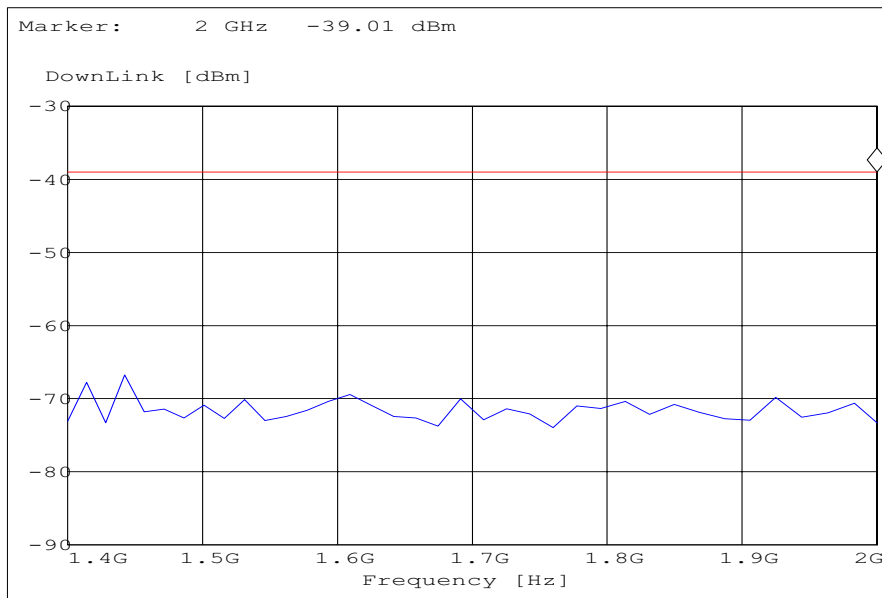


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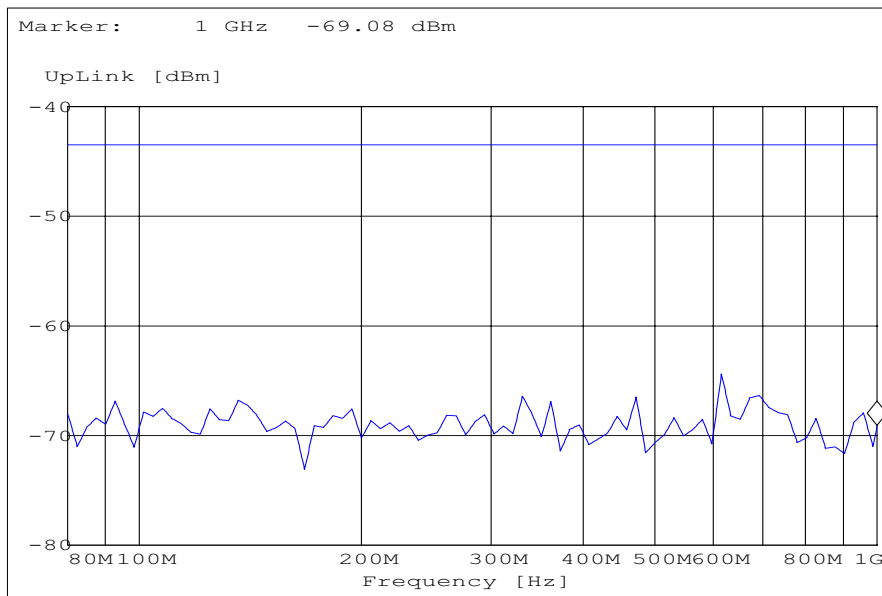
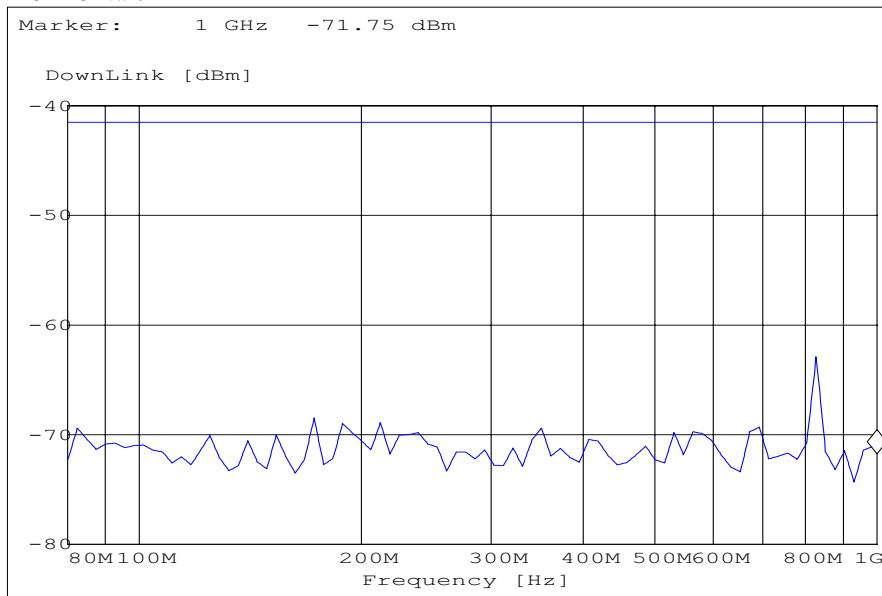
Telephone: +86 (0) 21 6495 1616
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Tino.Pan@sgs.com

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Power Supply5:

GSM 850 charging with adaptor:

Horizontal:

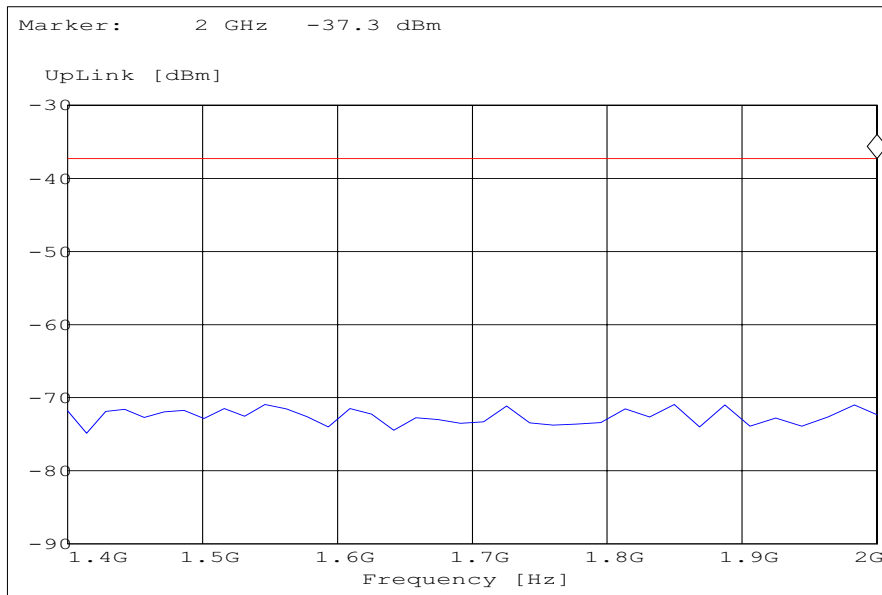
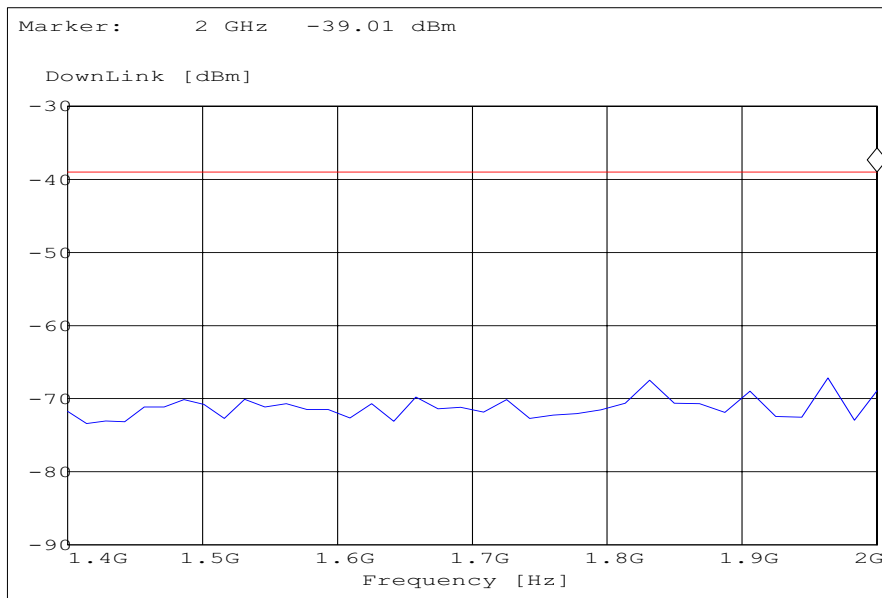


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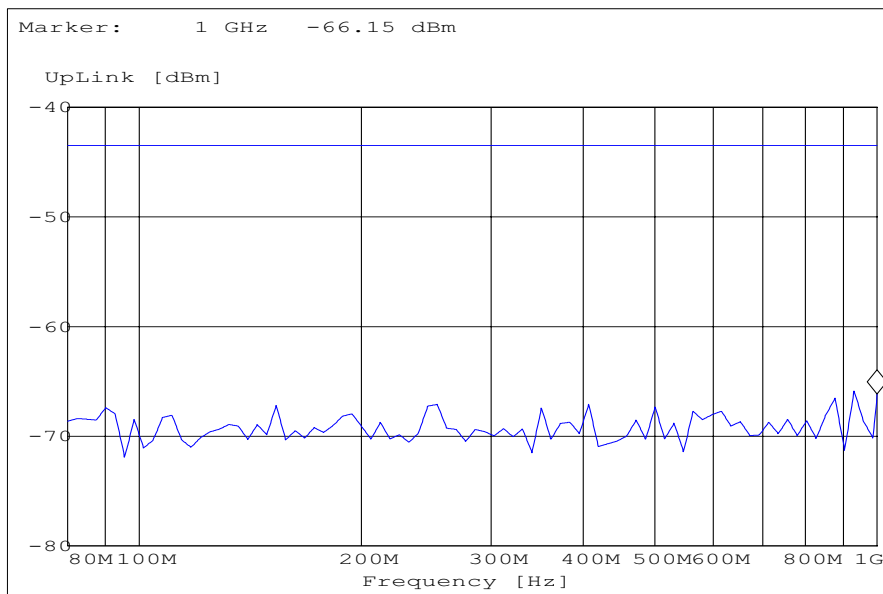
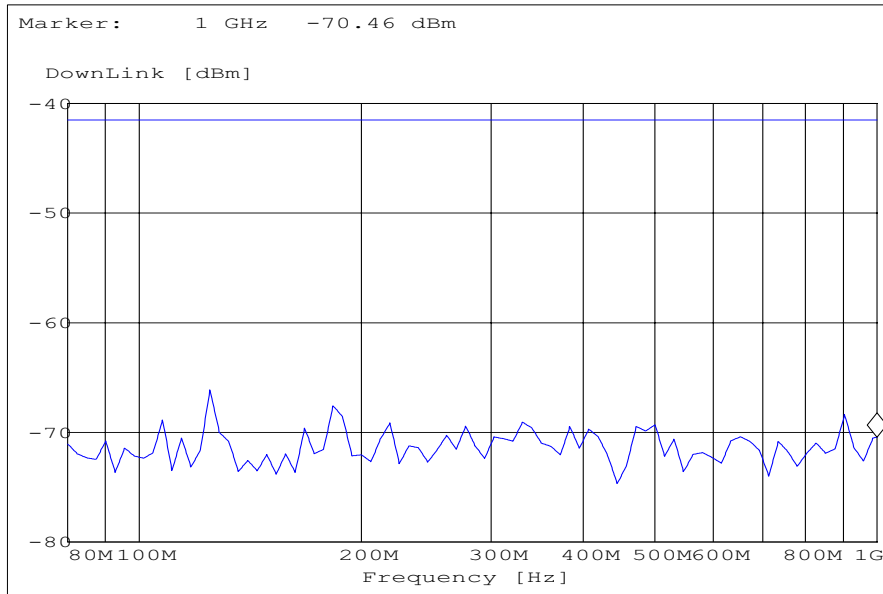
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Vertical:



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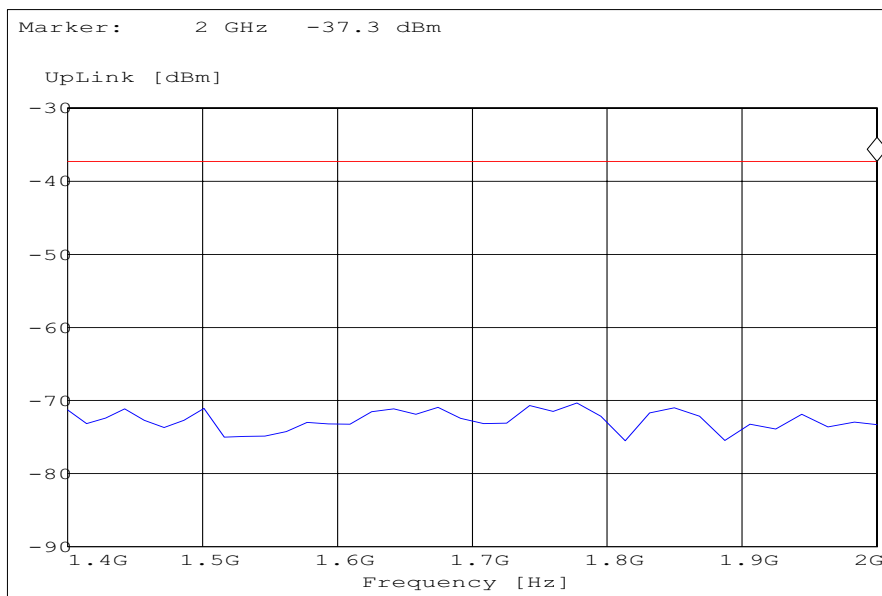
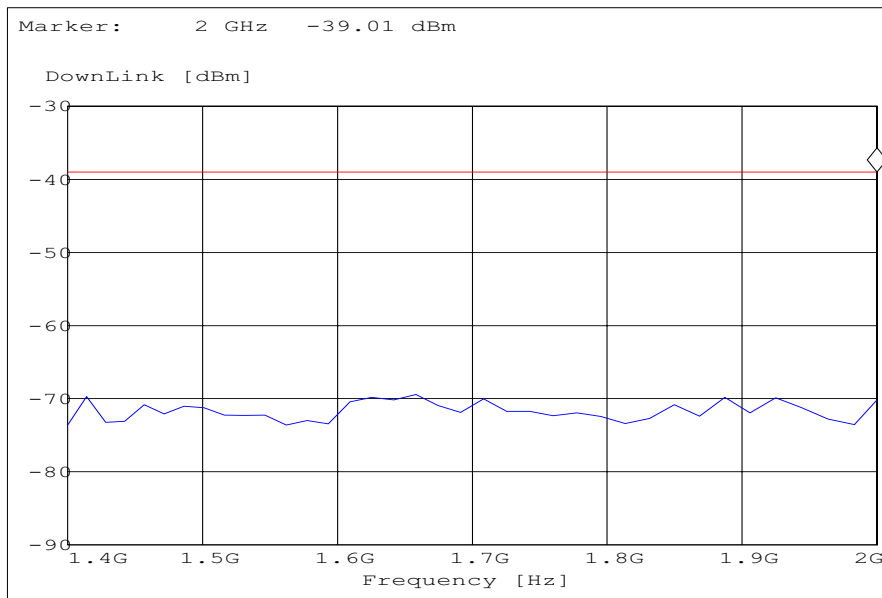
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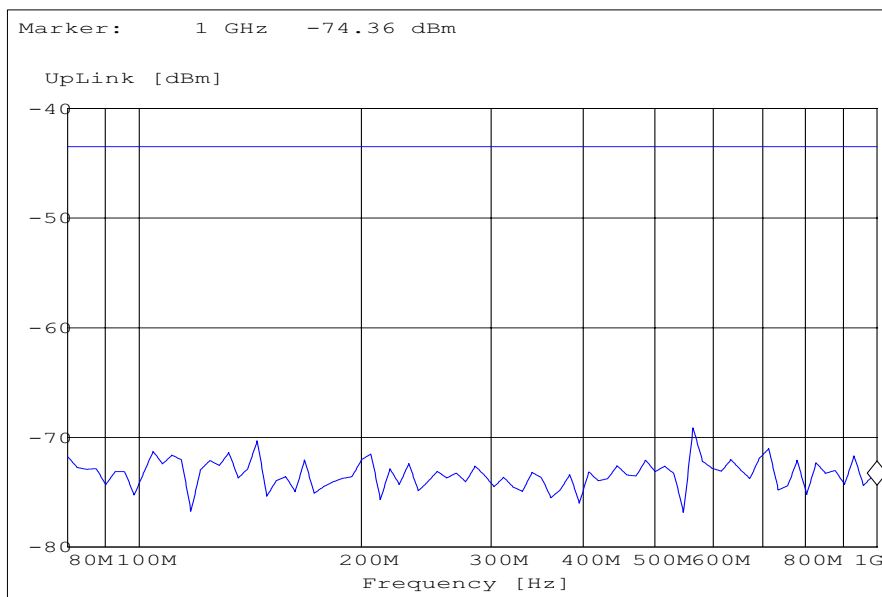
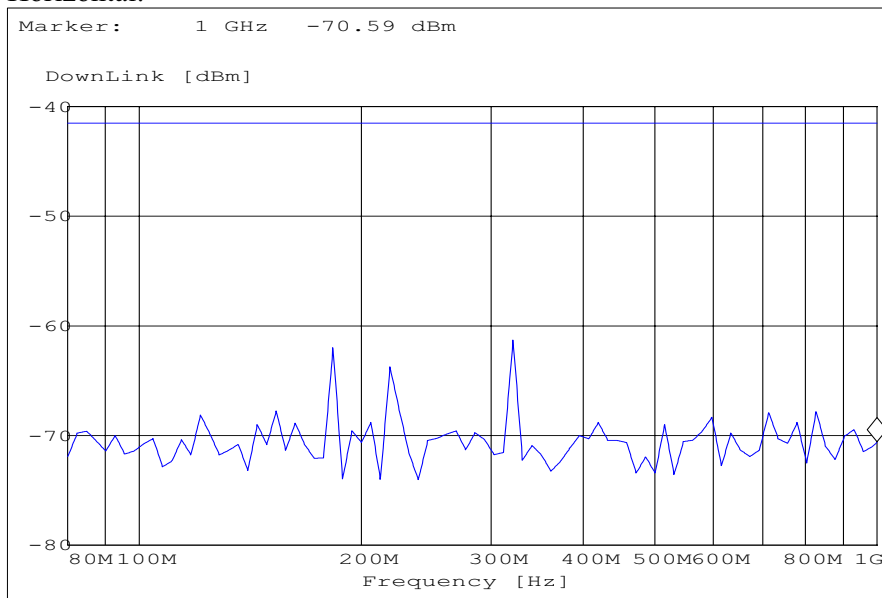
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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PCS 1900 charging with adaptor:

Horizontal:

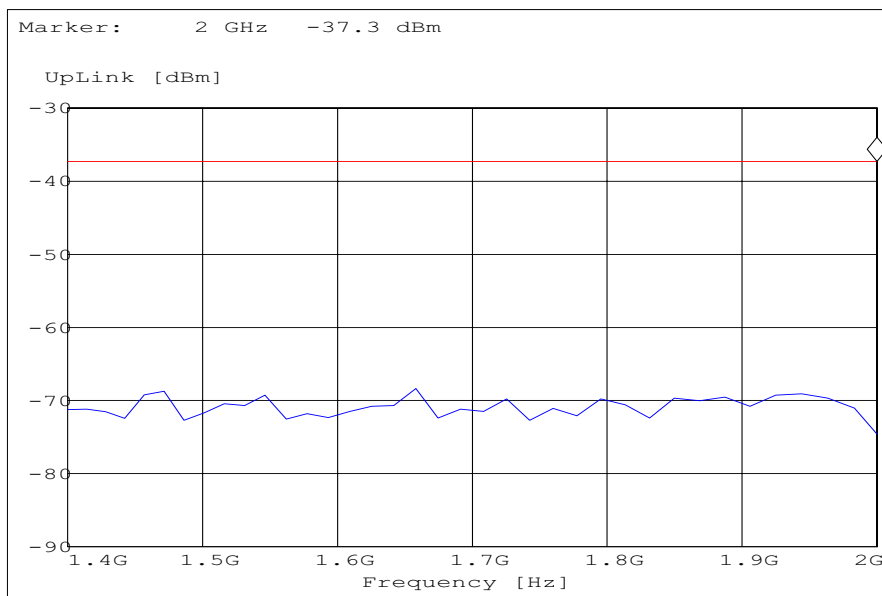
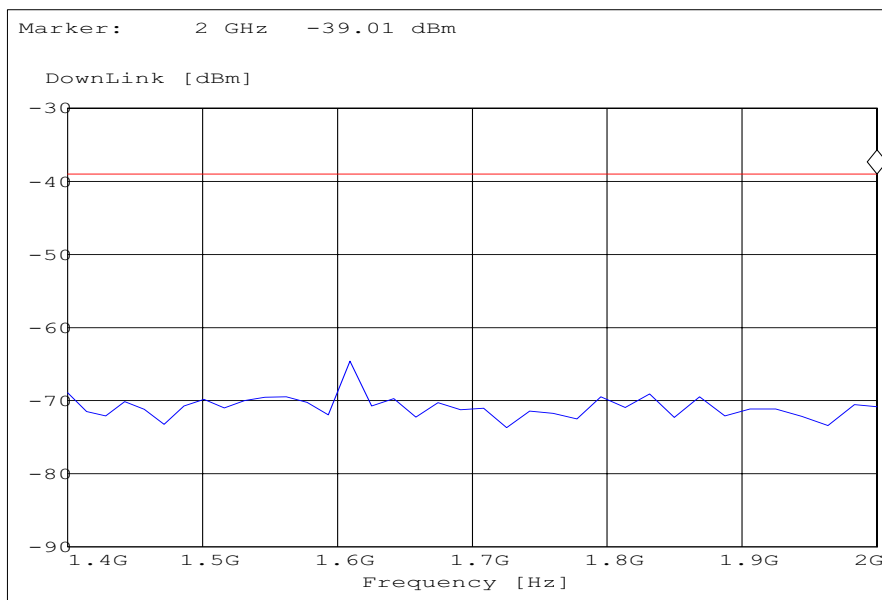


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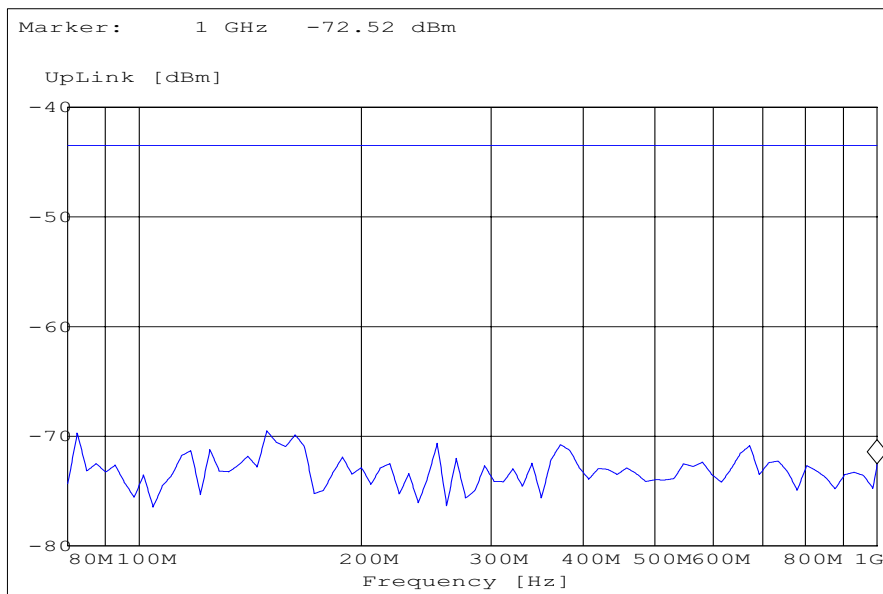
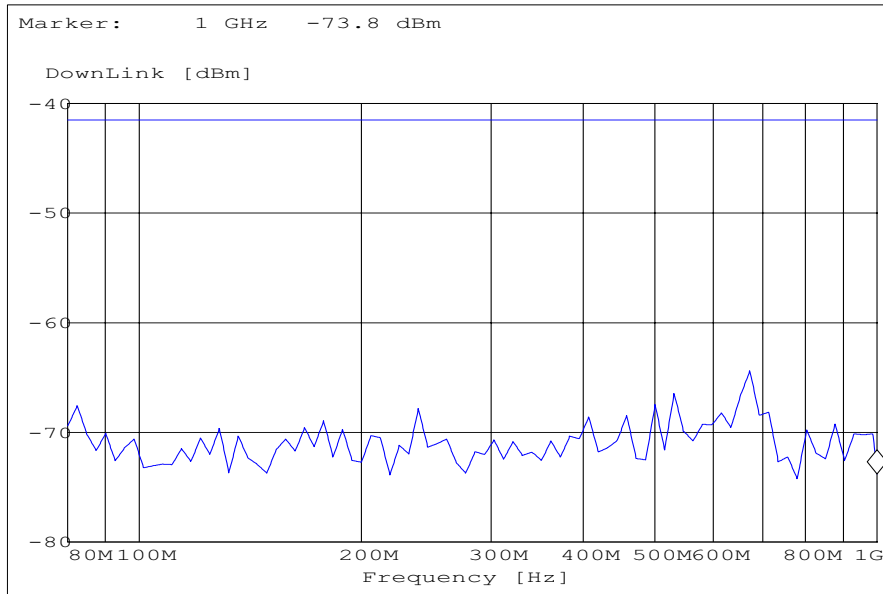
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Vertical:

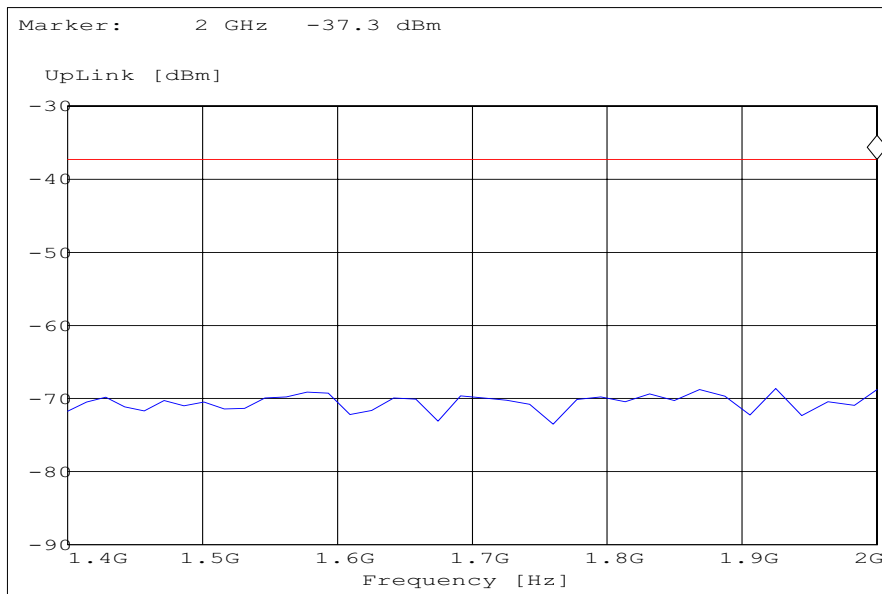
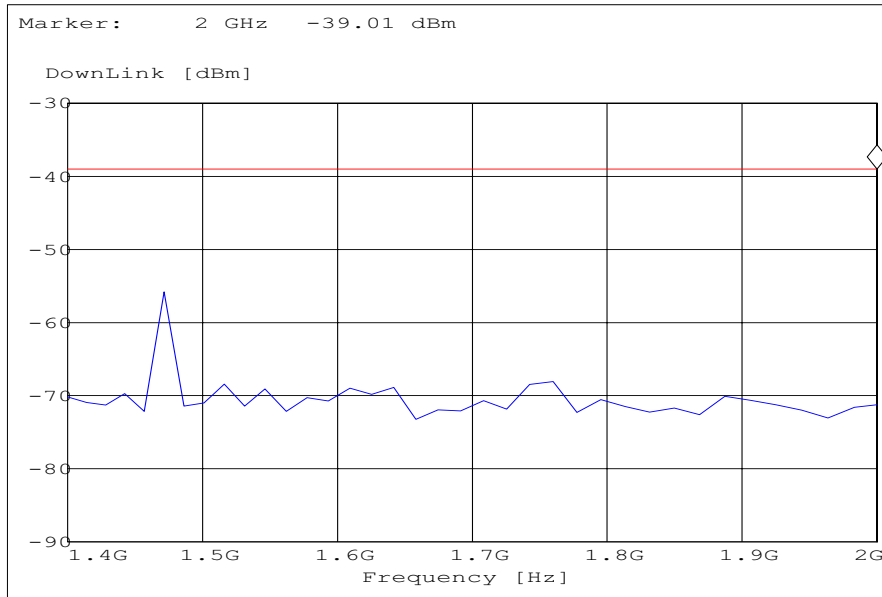


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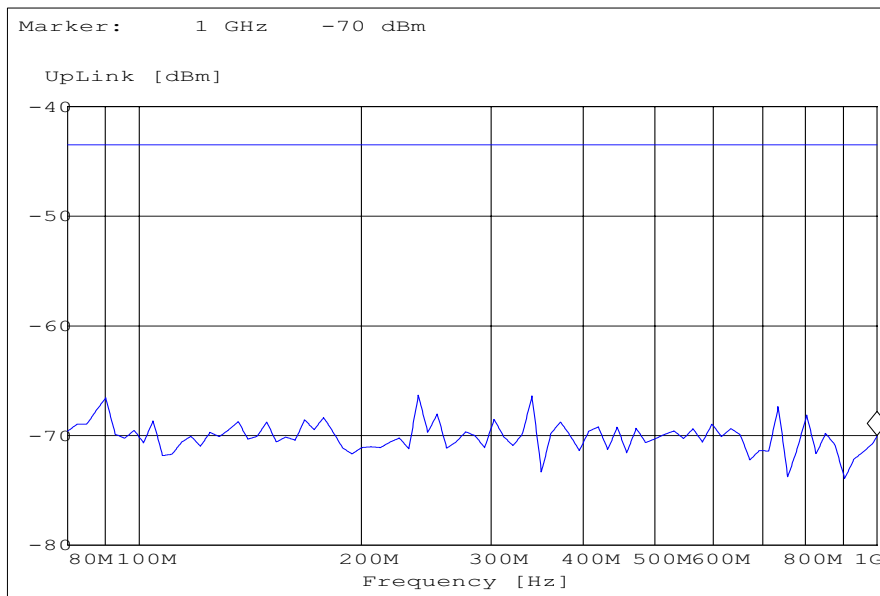
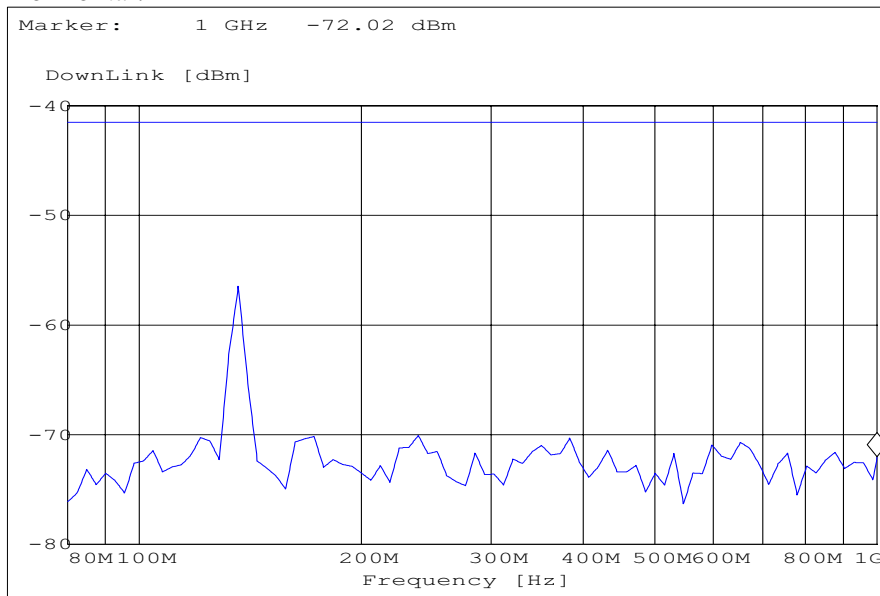
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Connected with headset

GSM 850:

Horizontal:

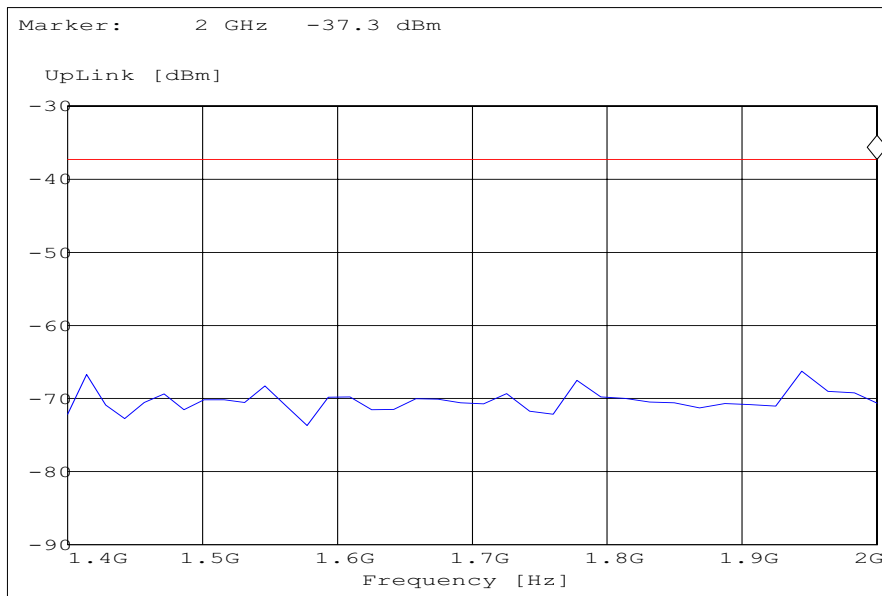
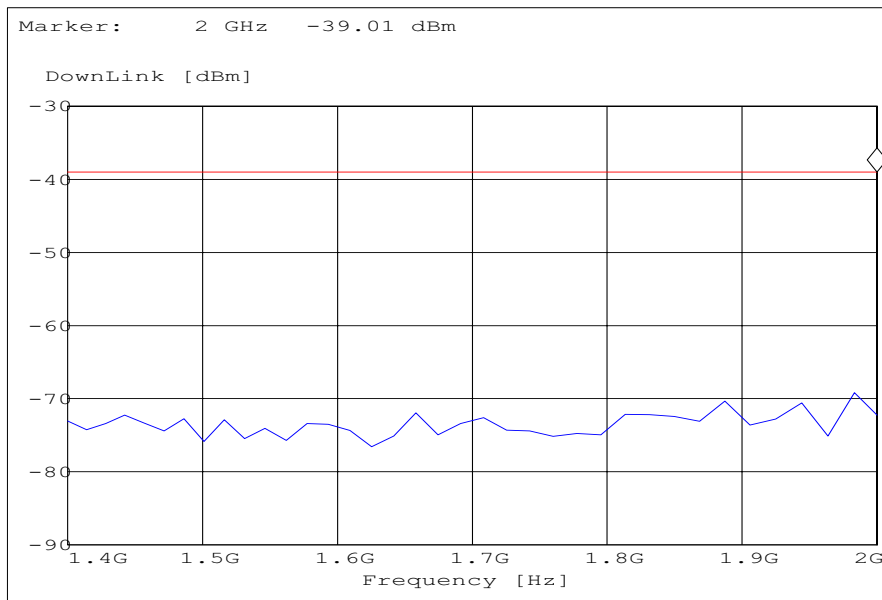


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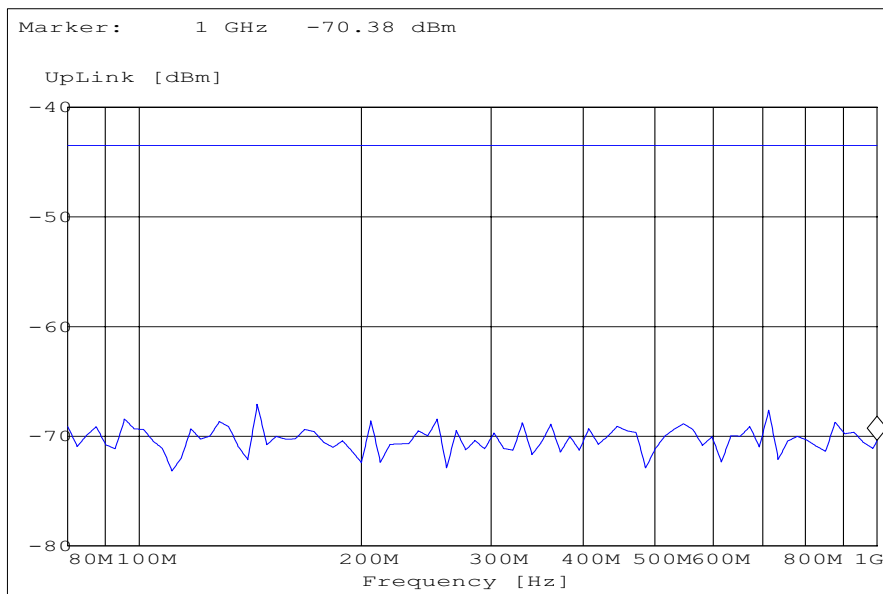
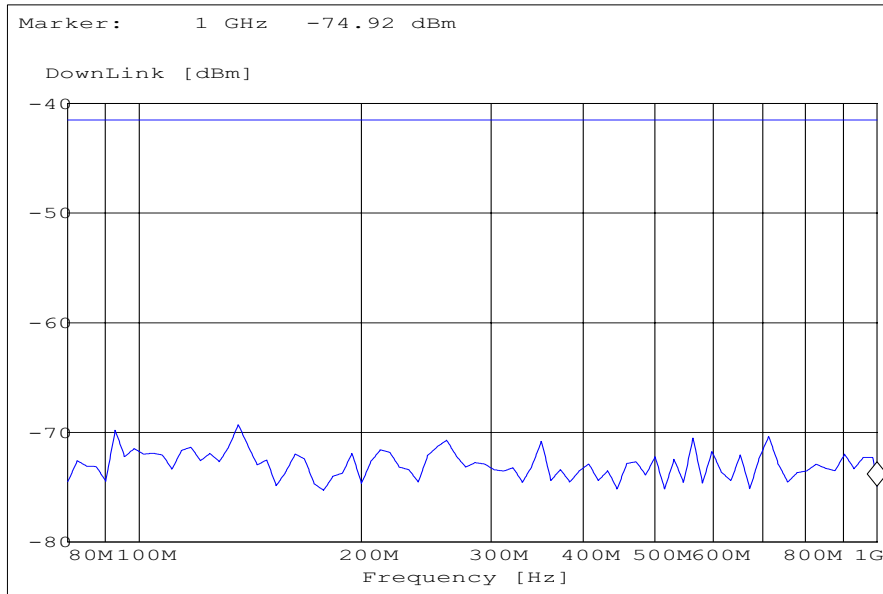
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Vertical:

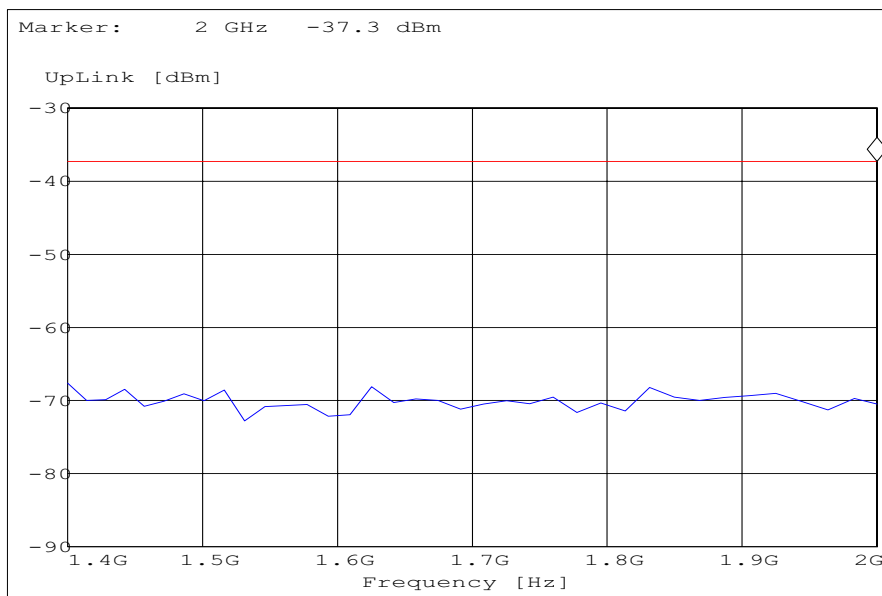
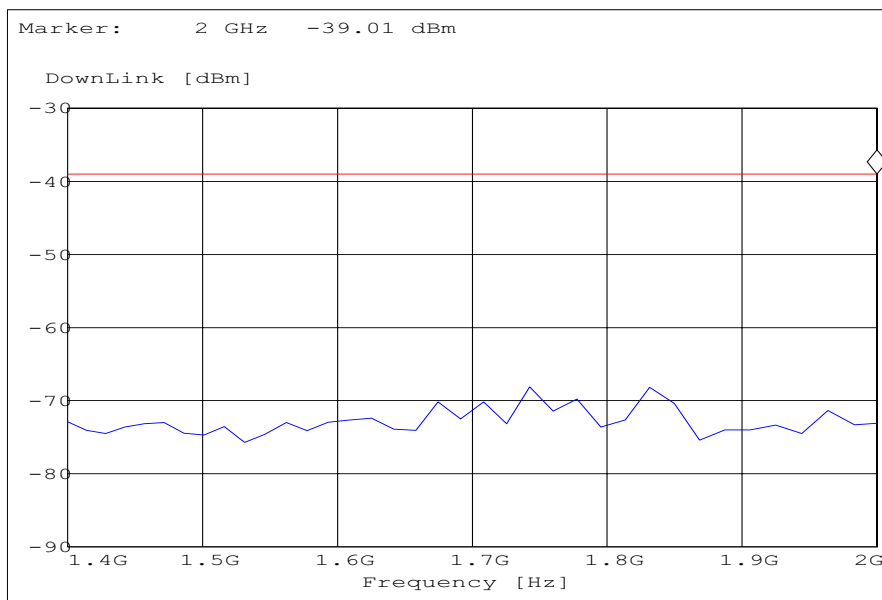


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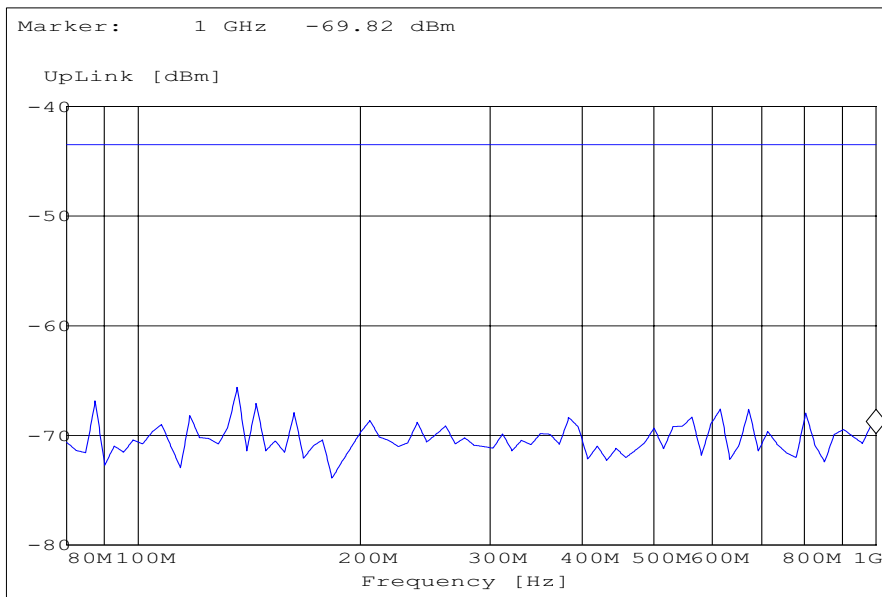
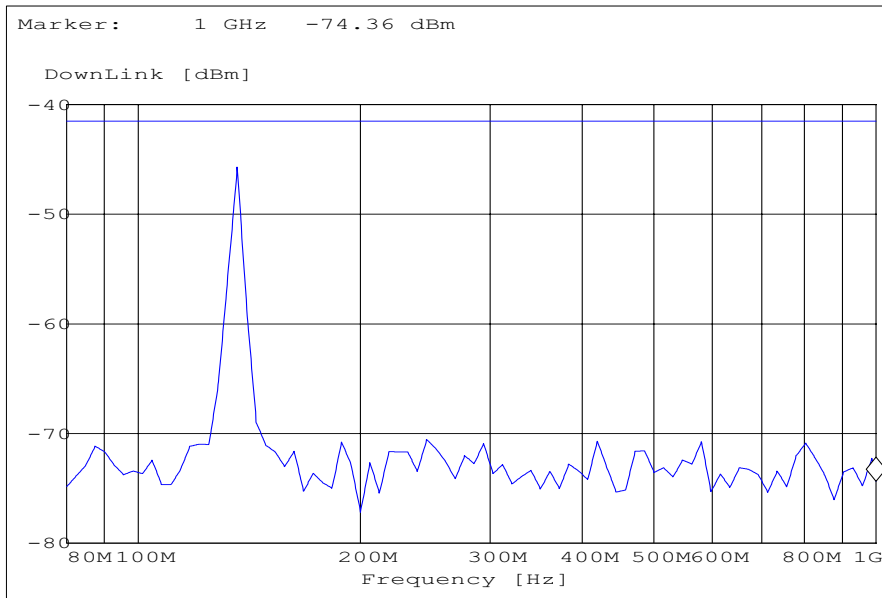
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Tino.Pan@sgs.com

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PCS 1900:

Horizontal:

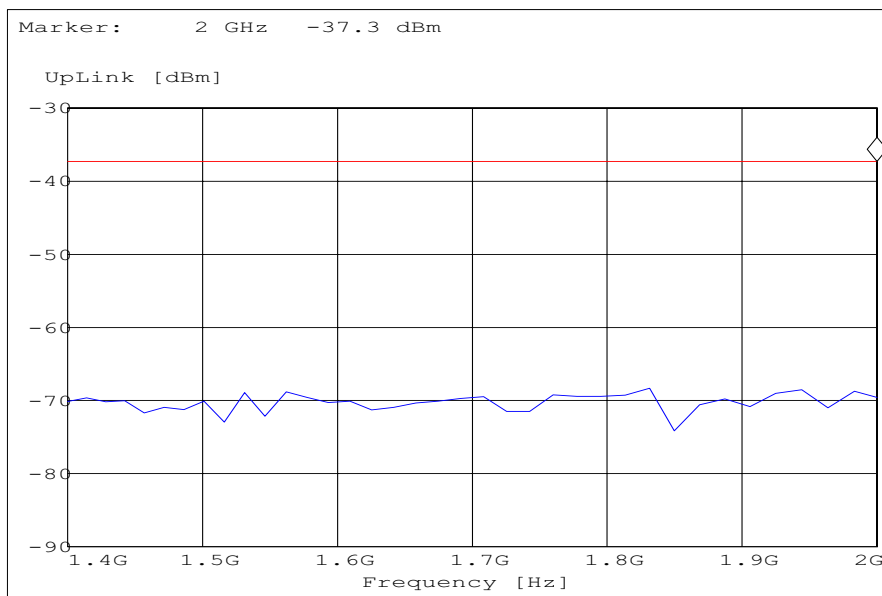
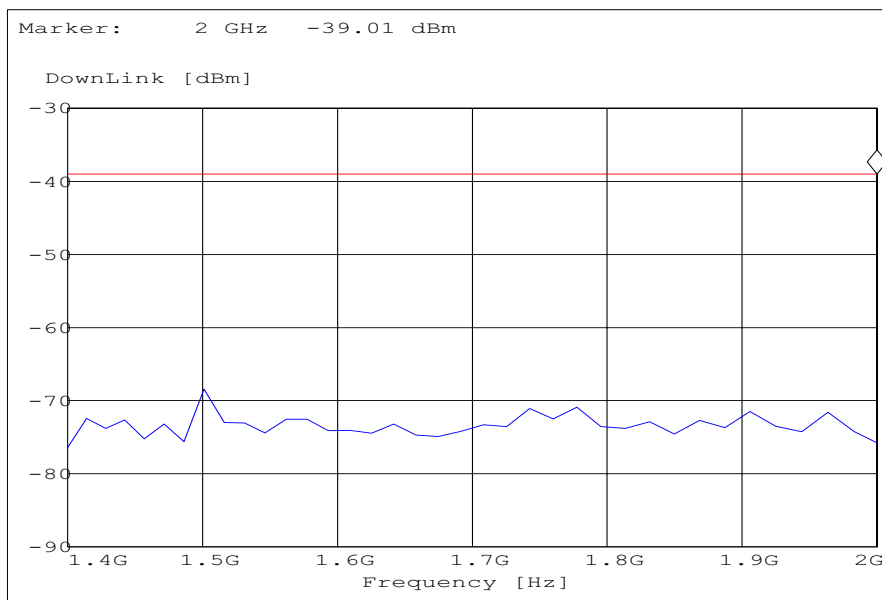


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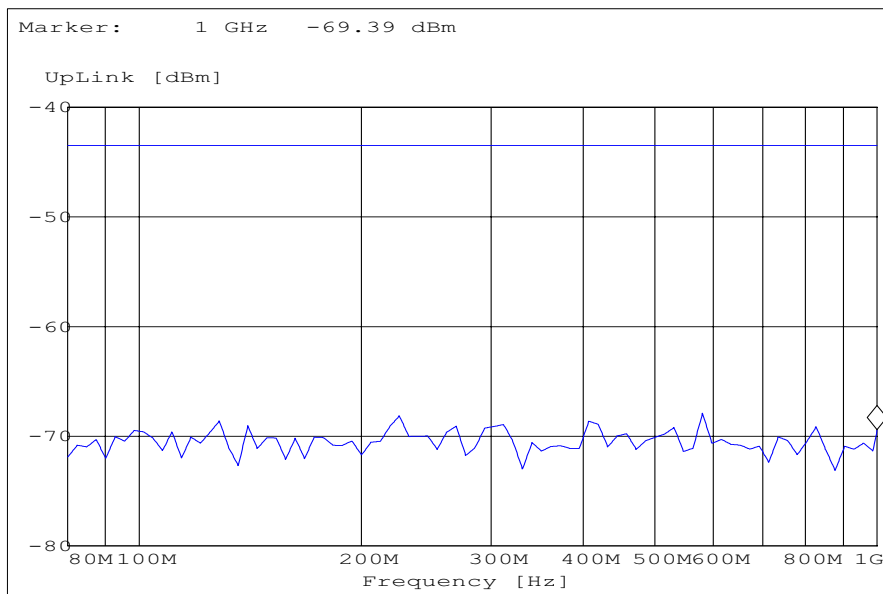
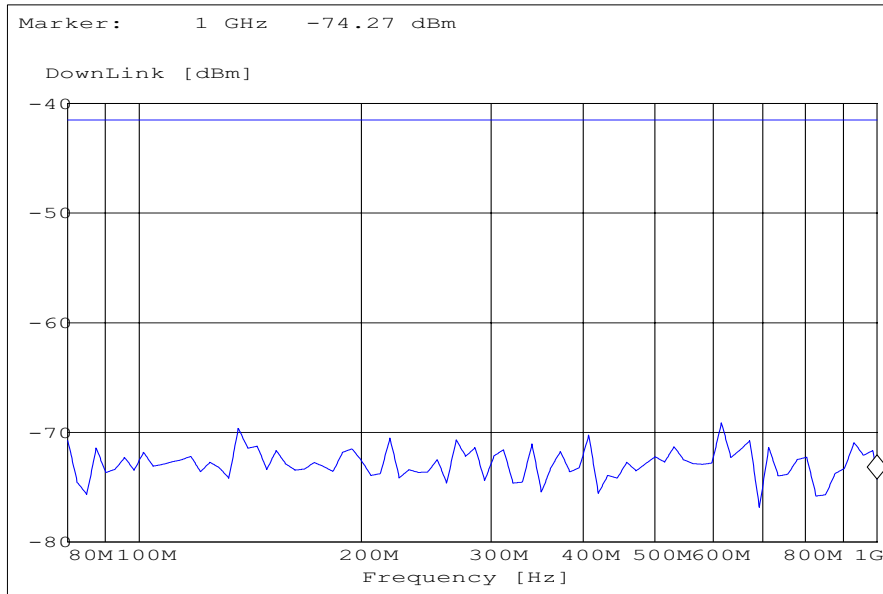
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Vertical:



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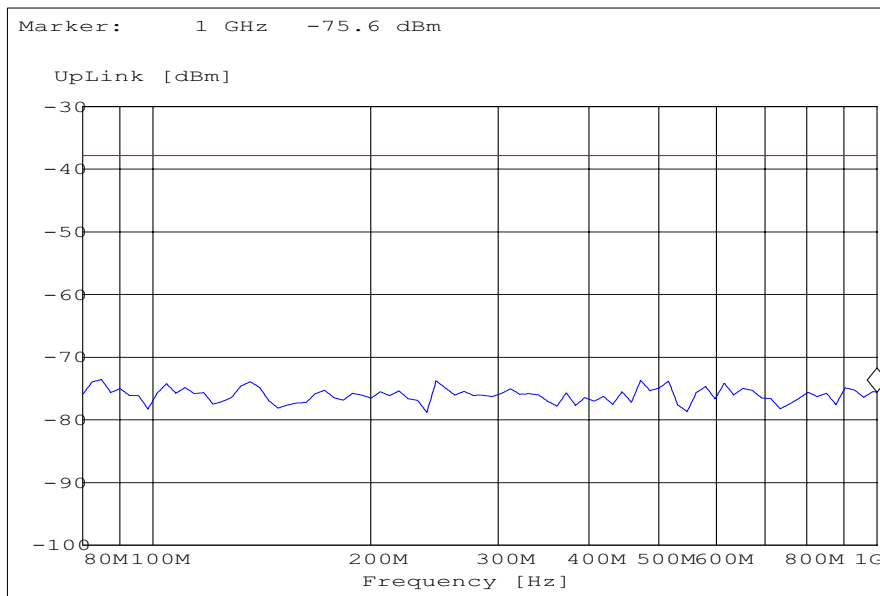
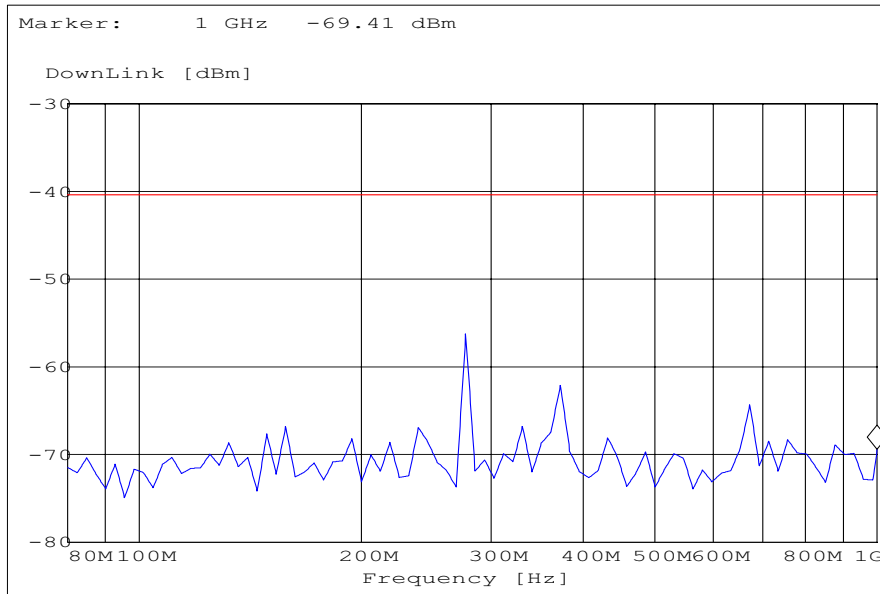
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Power Supply7:

GSM 850 charging with adaptor:

Horizontal:



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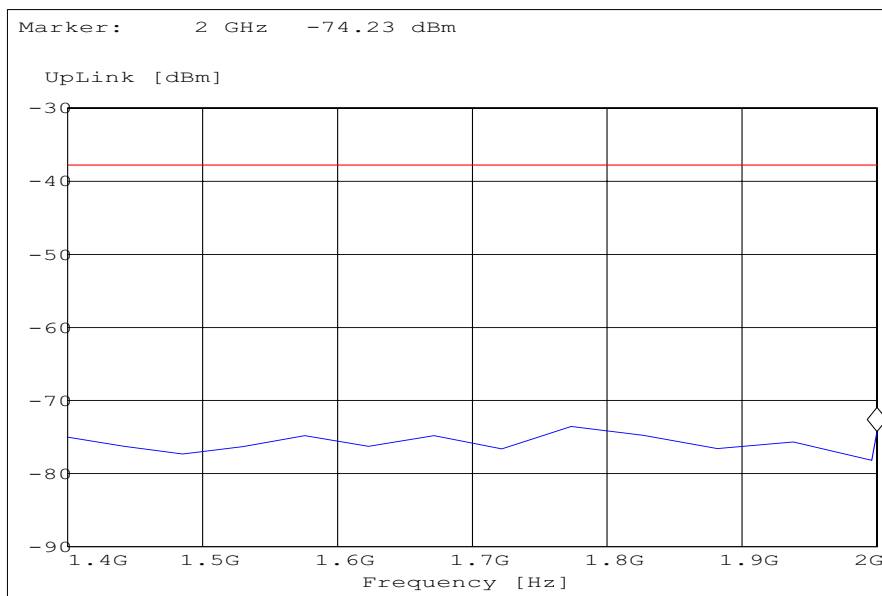
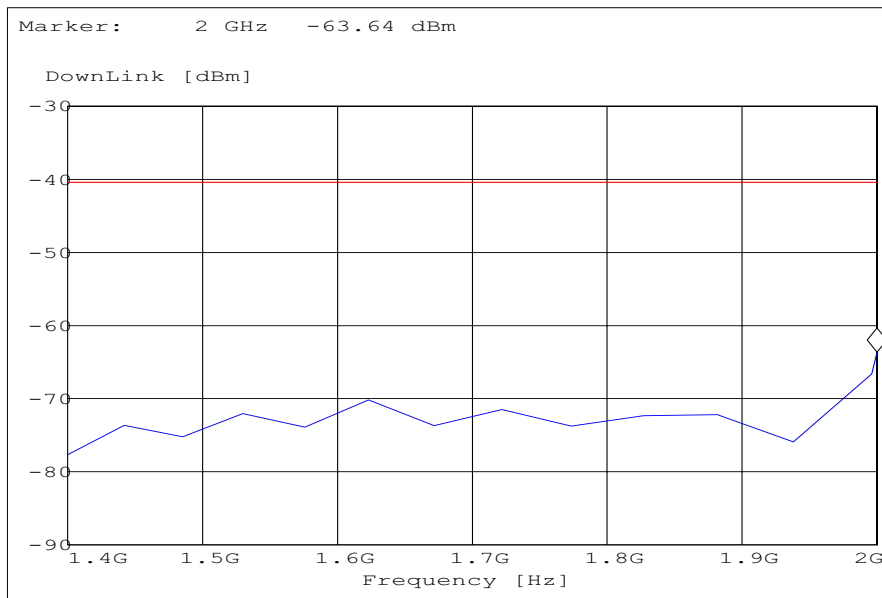
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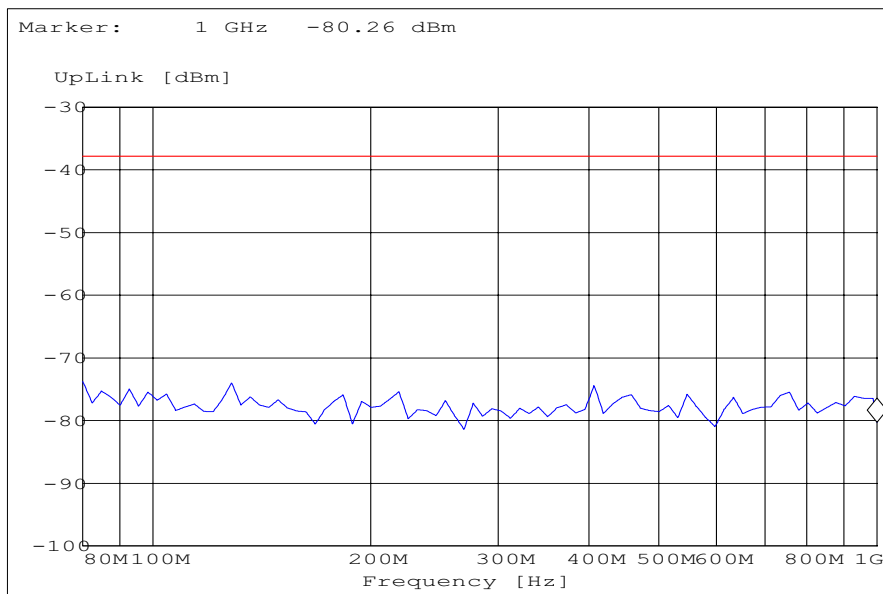
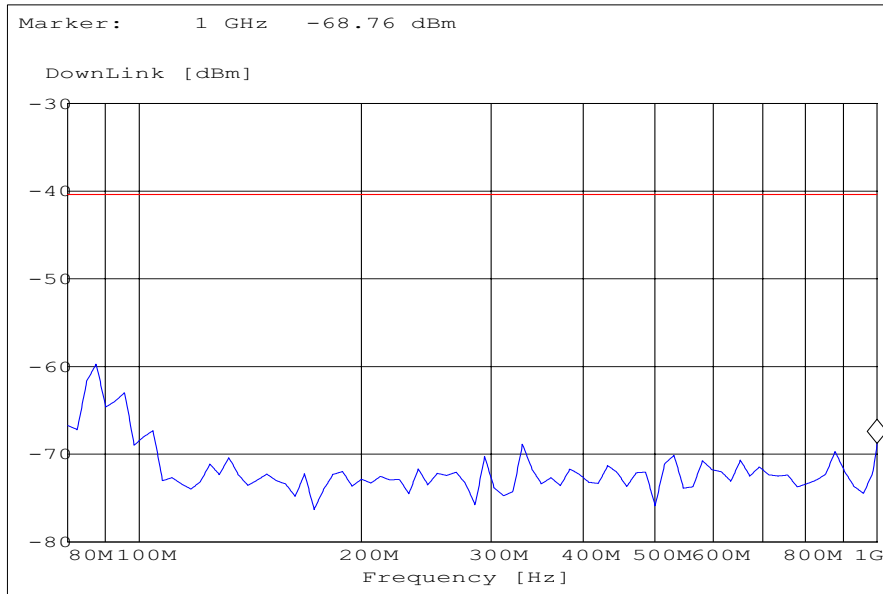
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Vertical:

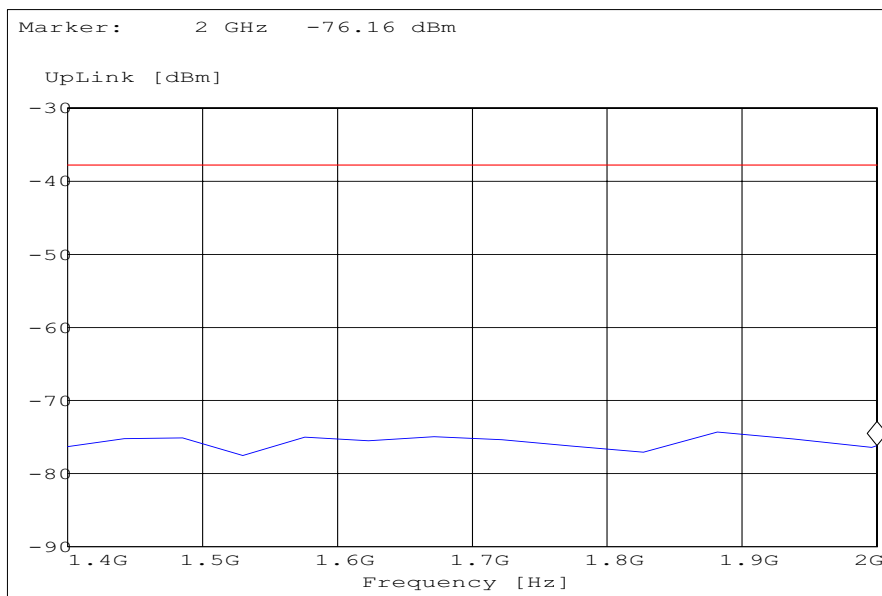
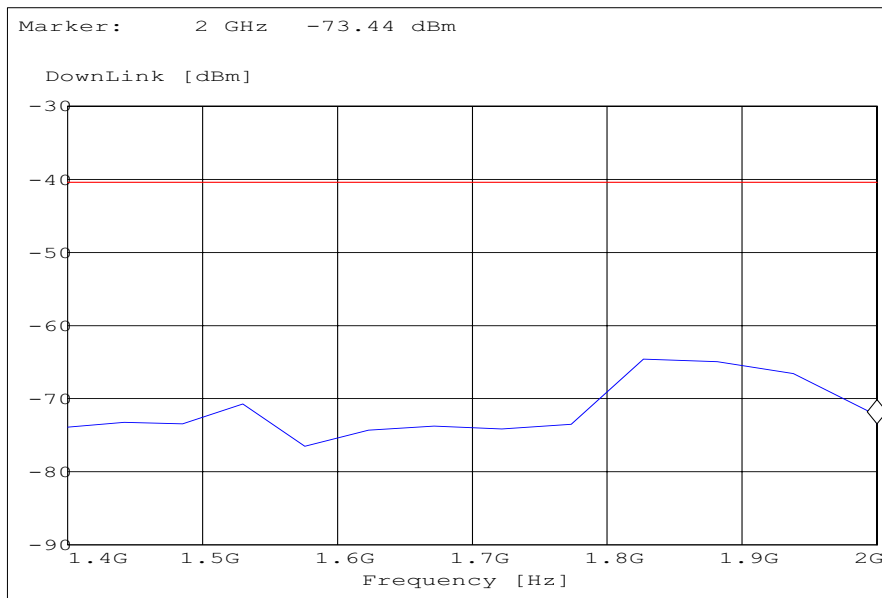


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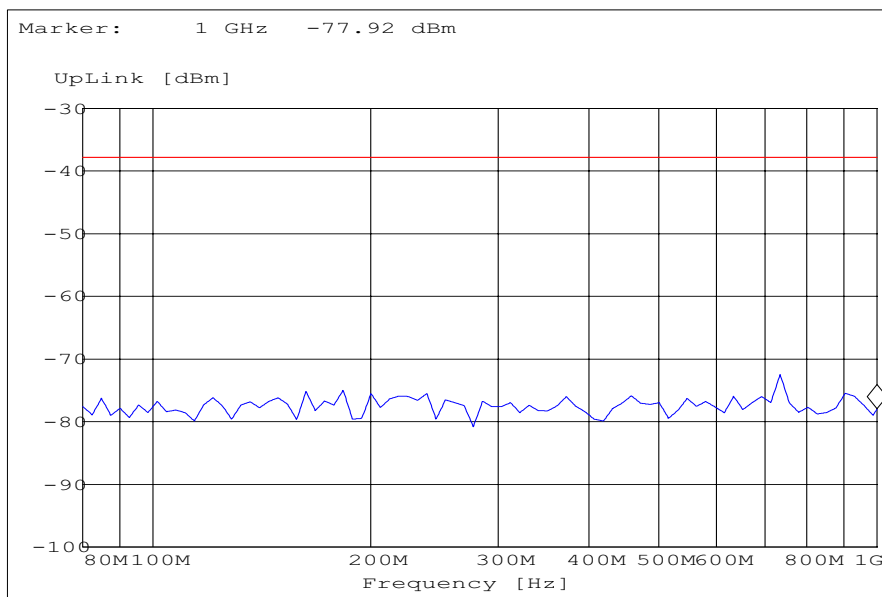
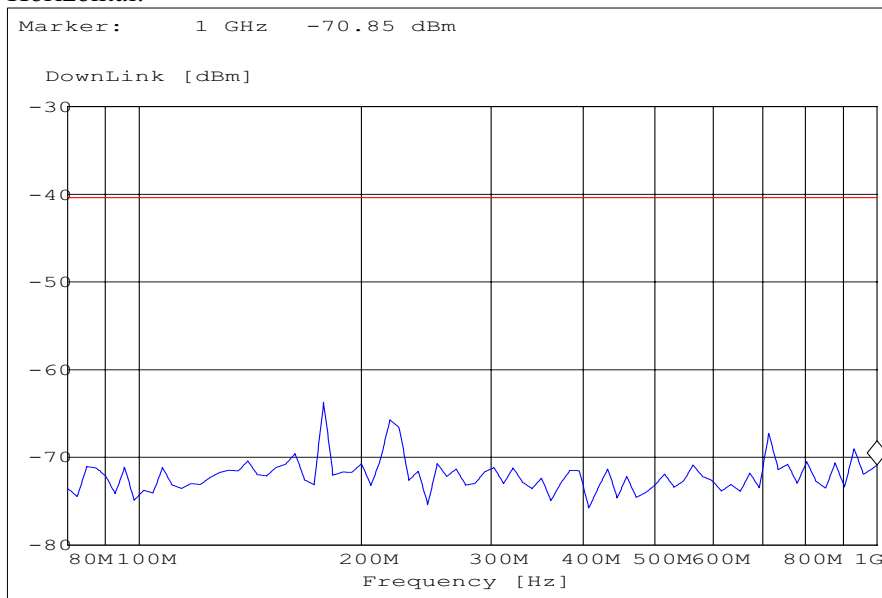
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PCS 1900 charging with adaptor:

Horizontal:

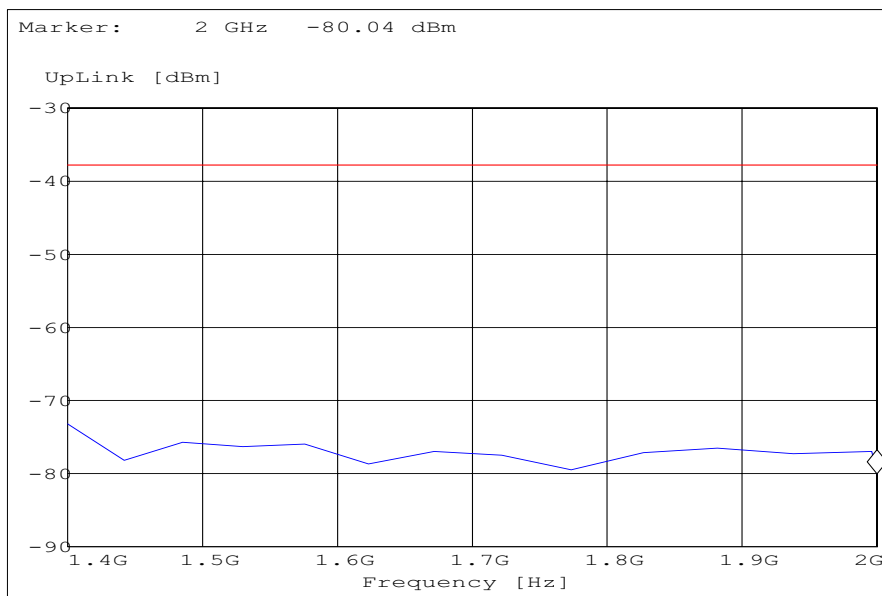
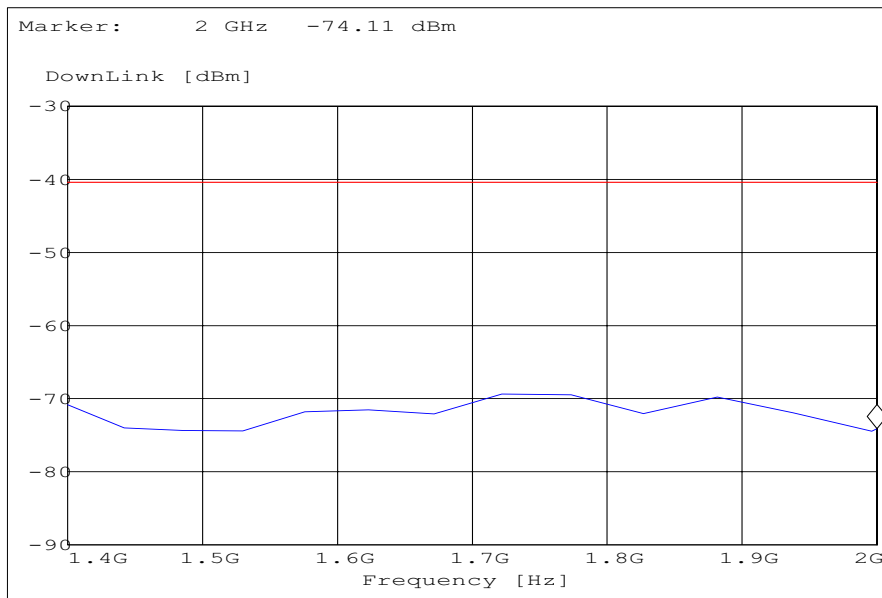


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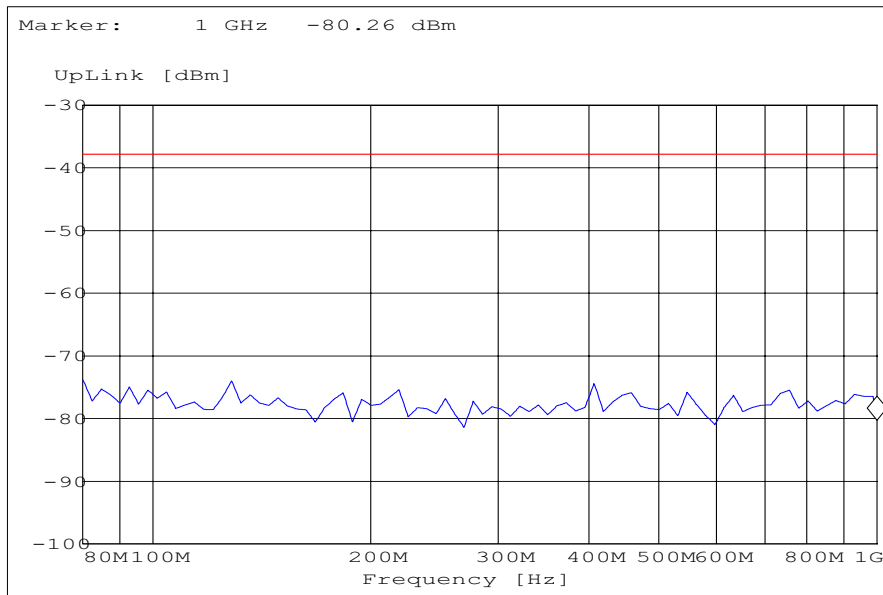
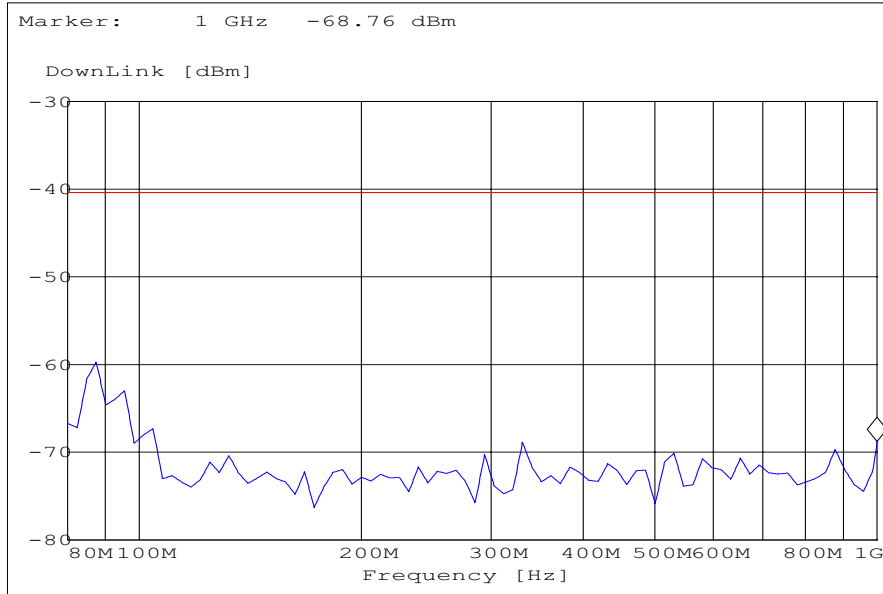
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Tino.Pan@sgs.com

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Vertical:

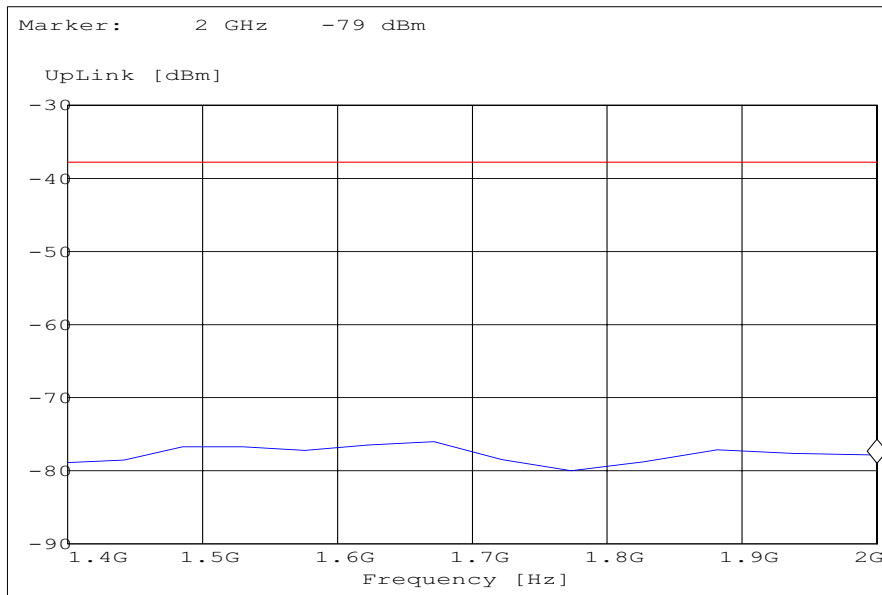
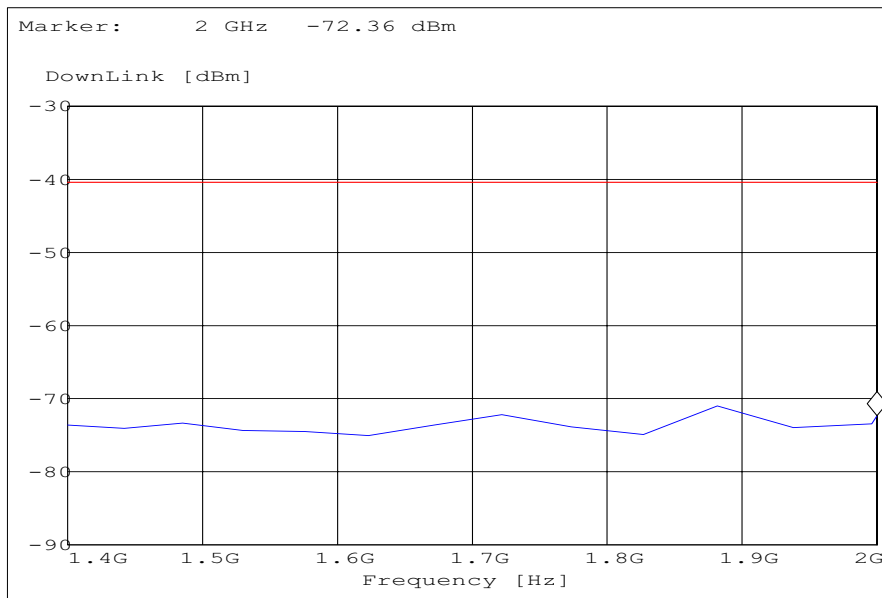


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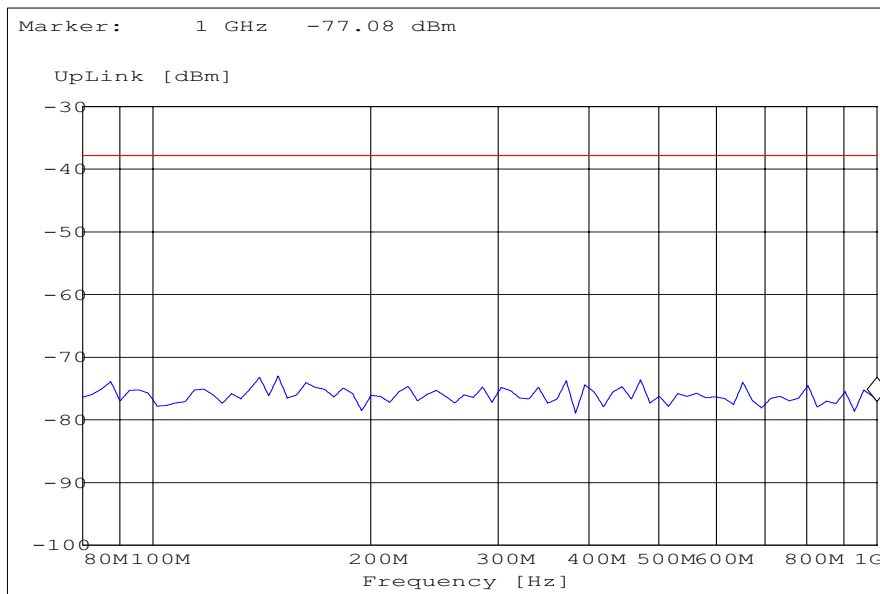
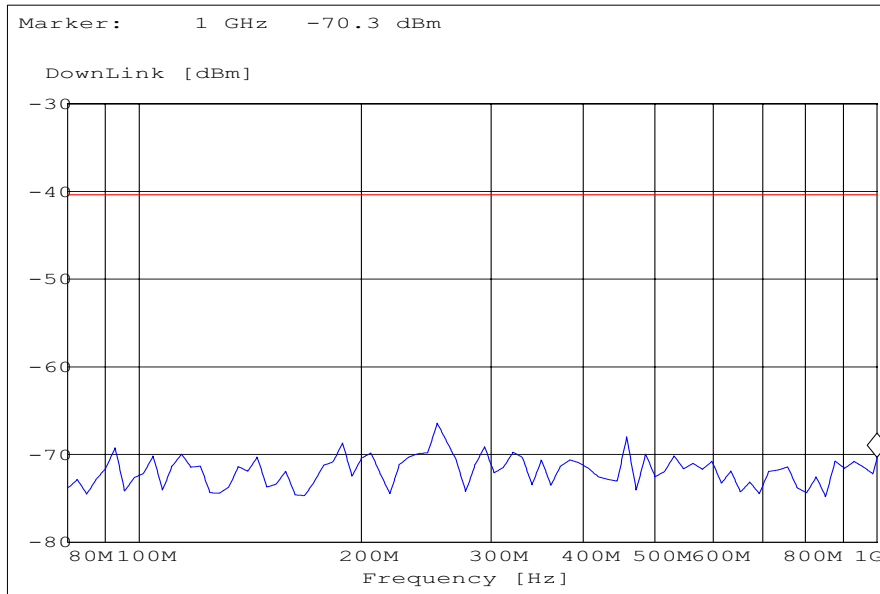
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Tino.Pan@sgs.com

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Power Supply8:

GSM 850 charging with adaptor:

Horizontal:

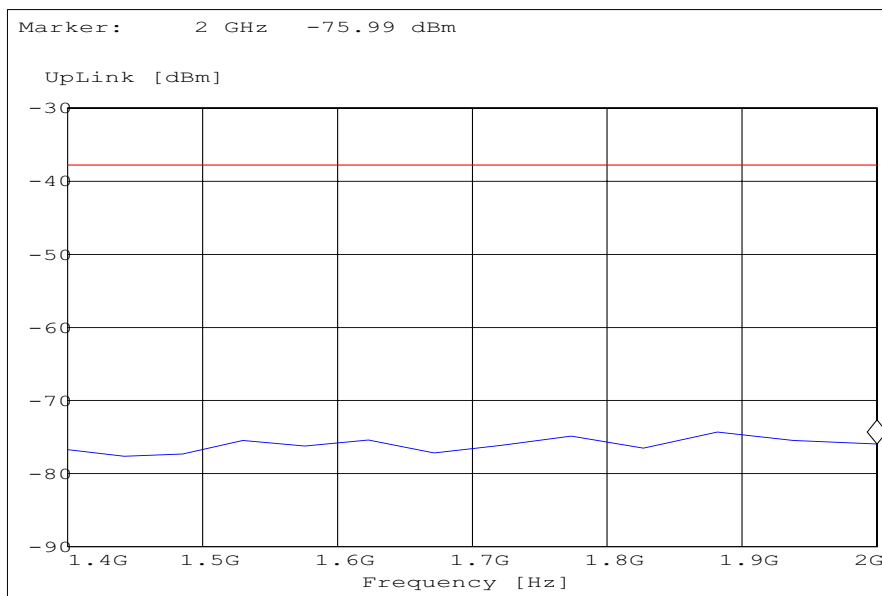
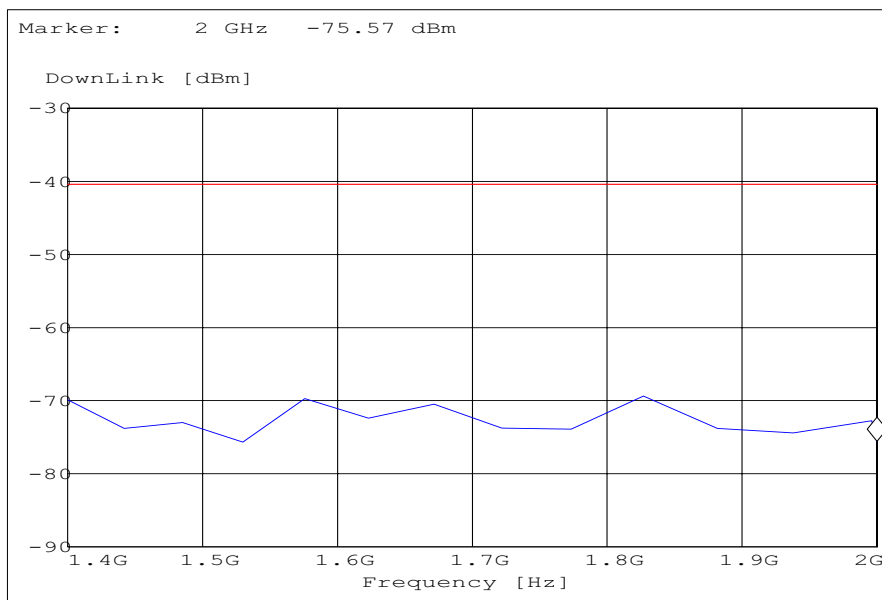


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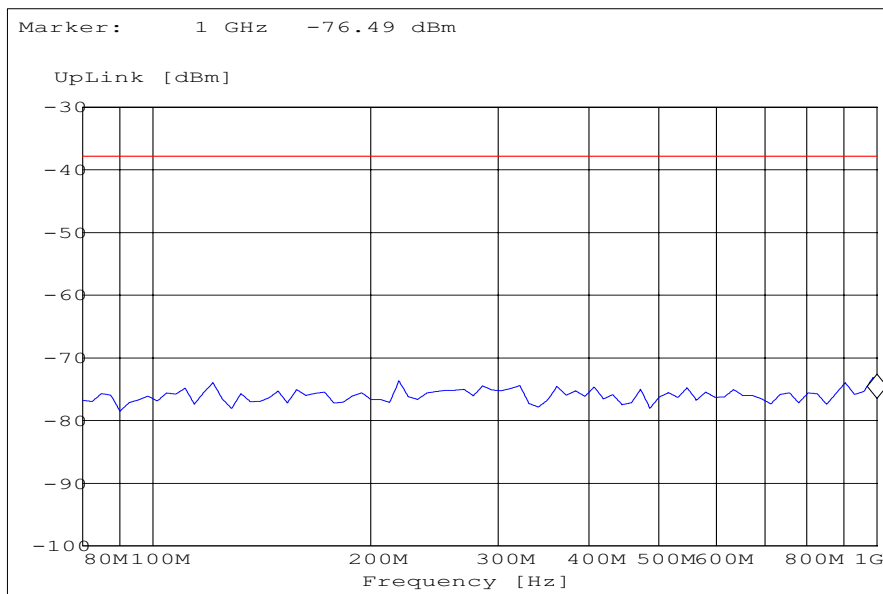
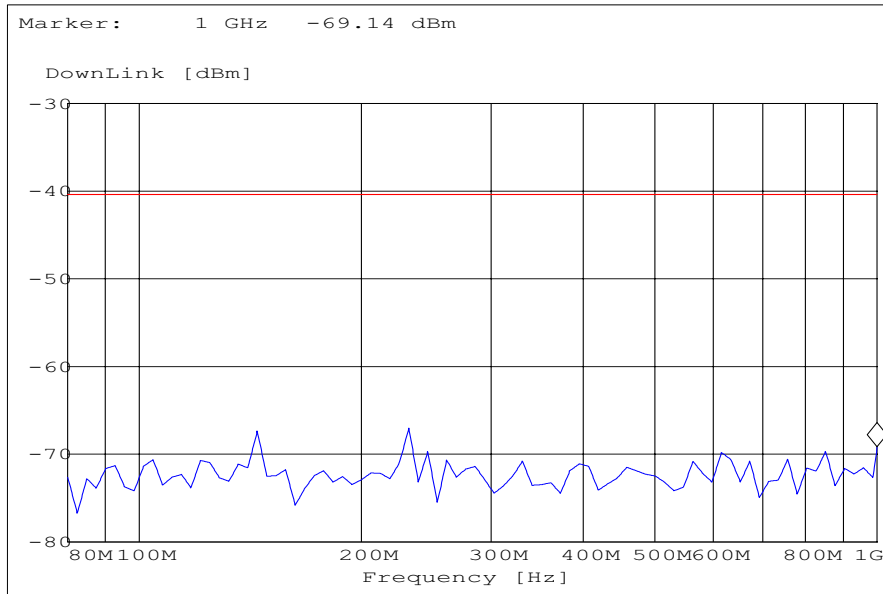
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Vertical:

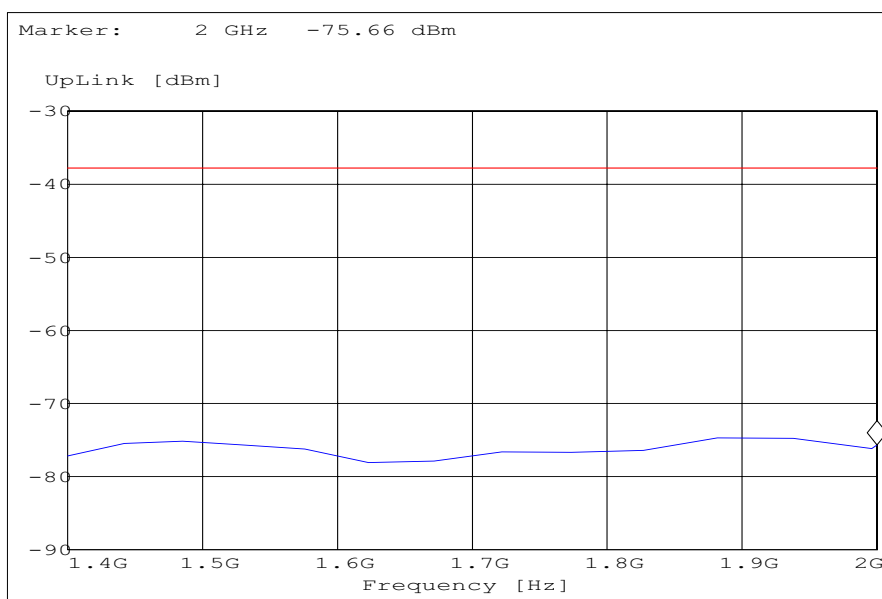
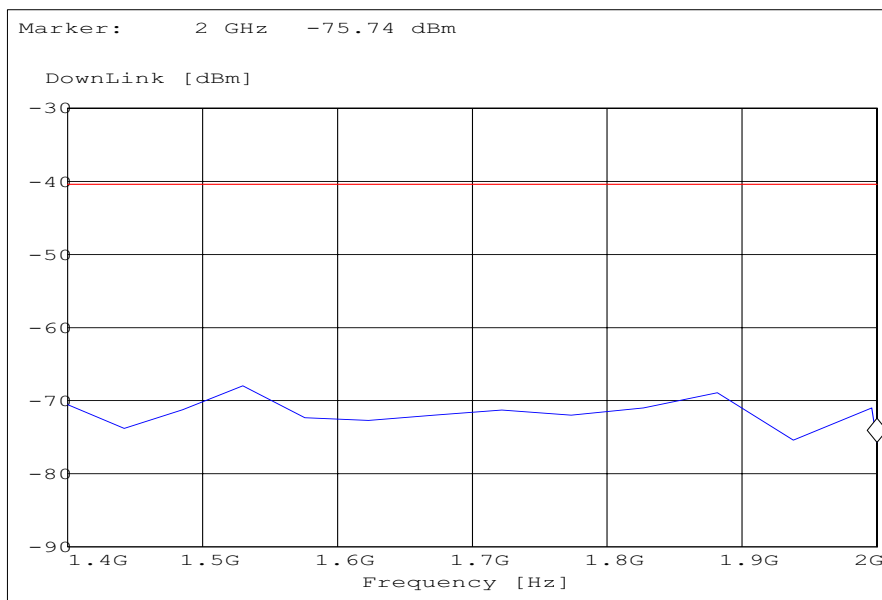


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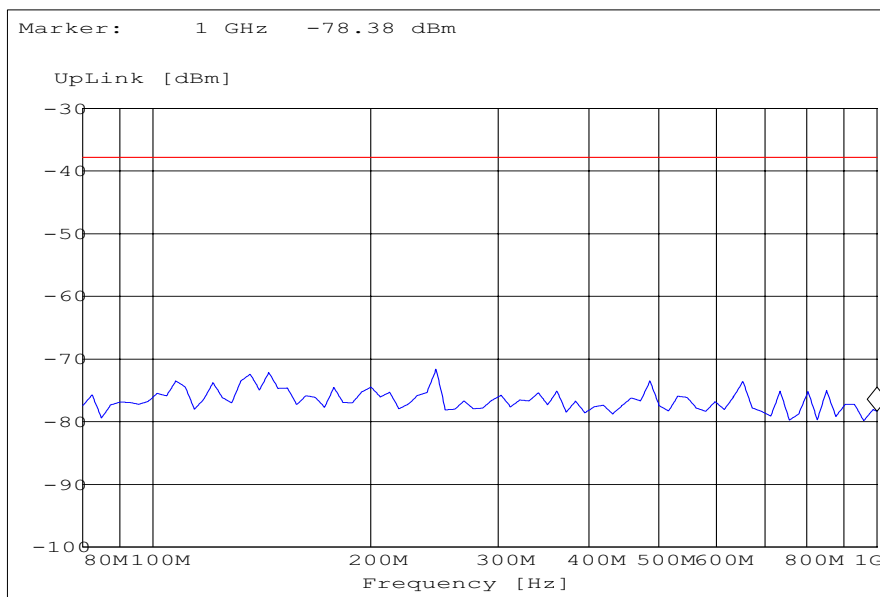
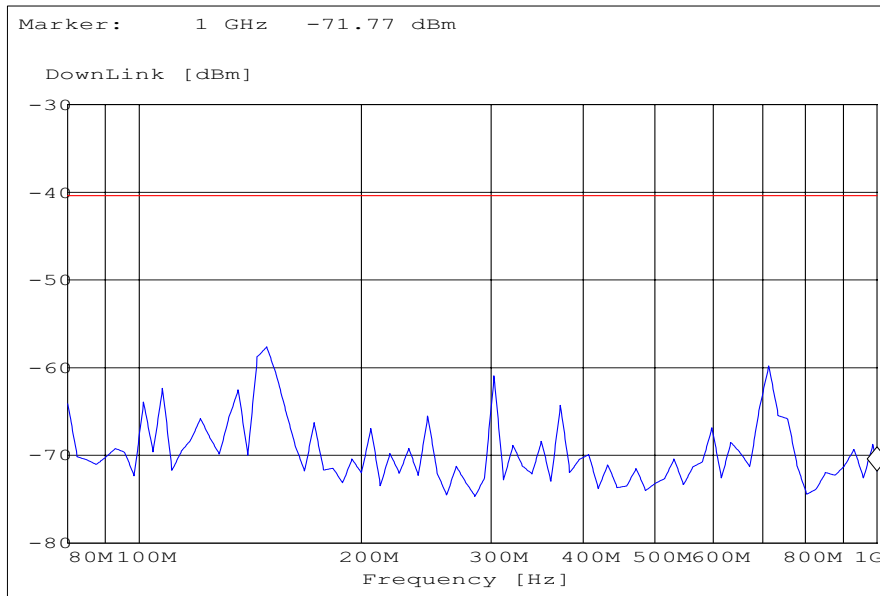
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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PCS 1900 charging with adaptor:

Horizontal:



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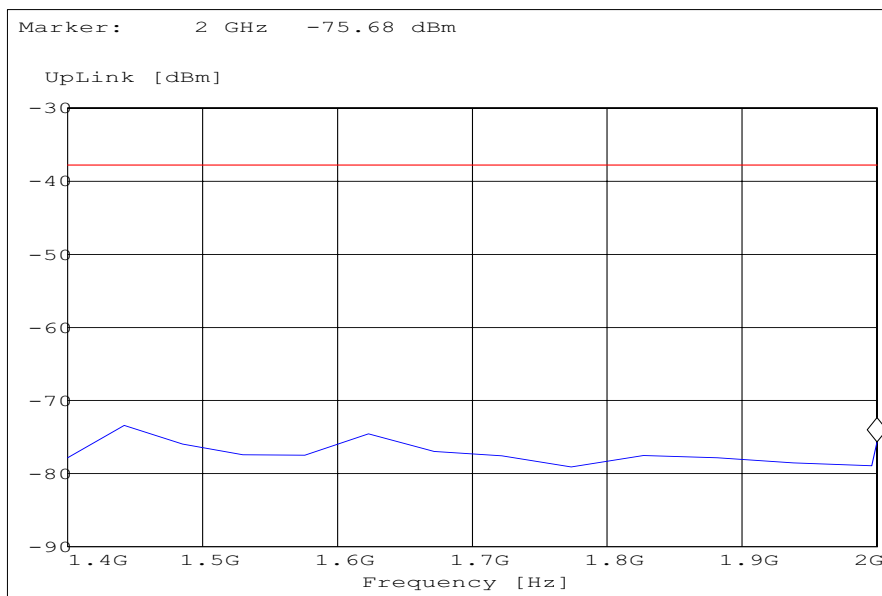
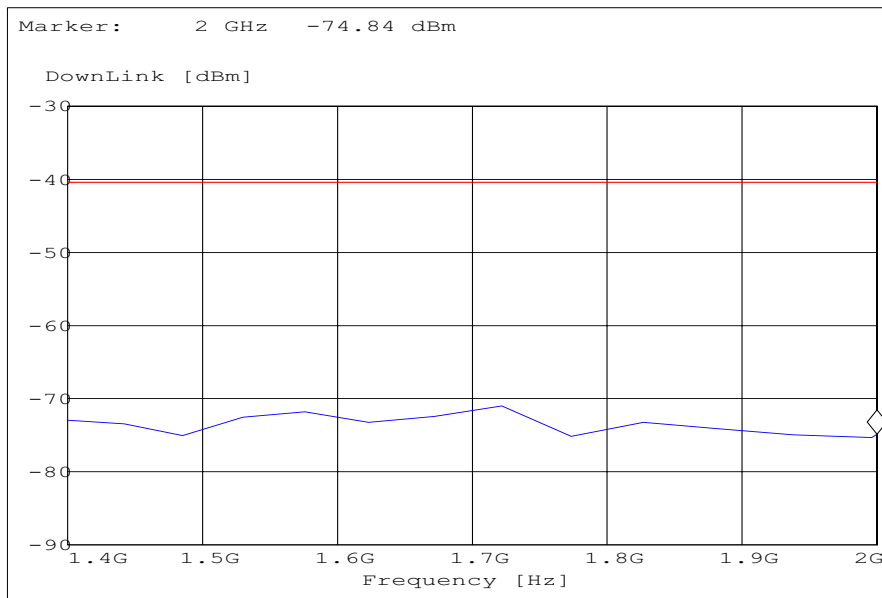
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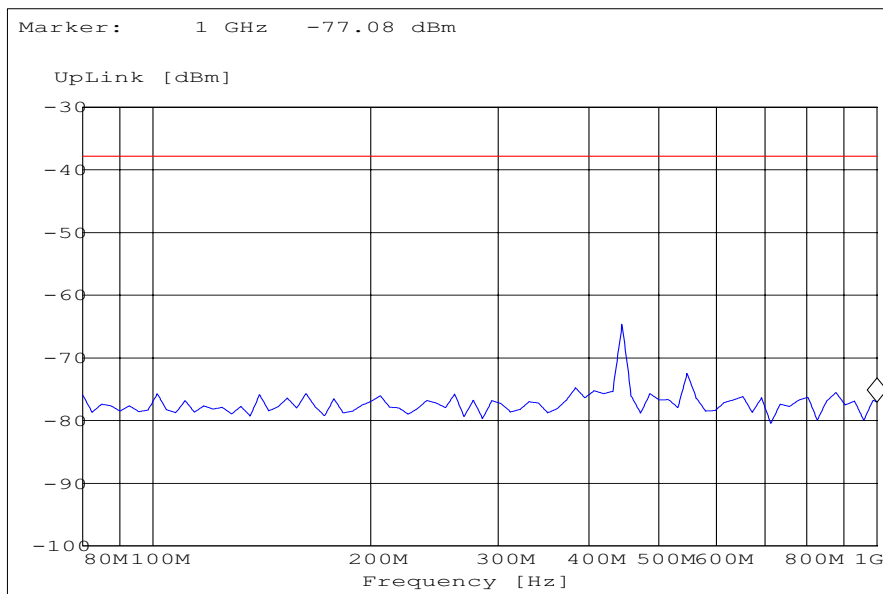
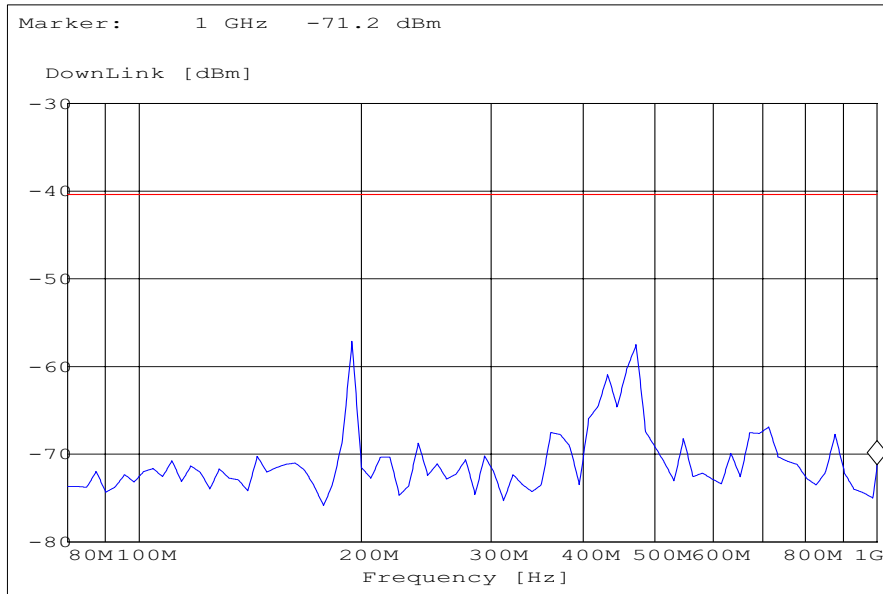
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Vertical:

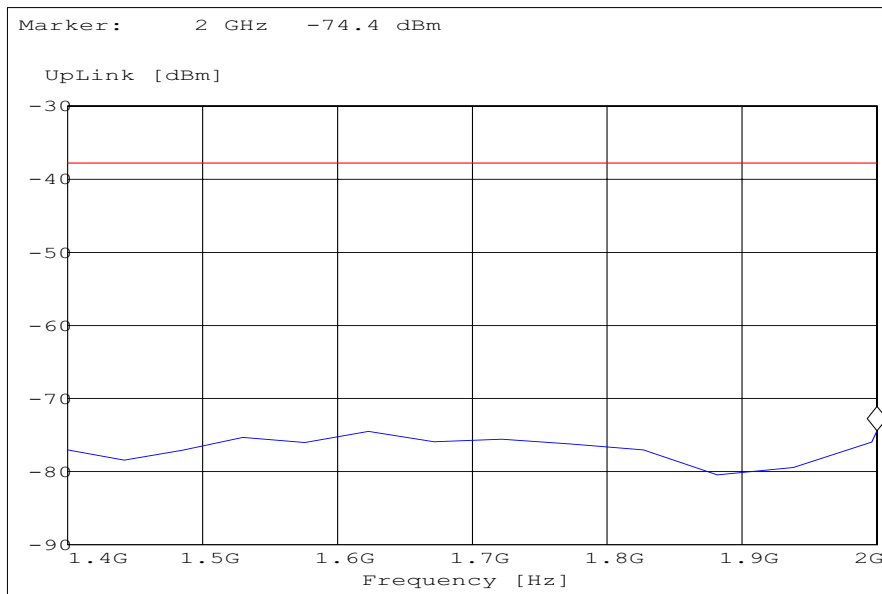
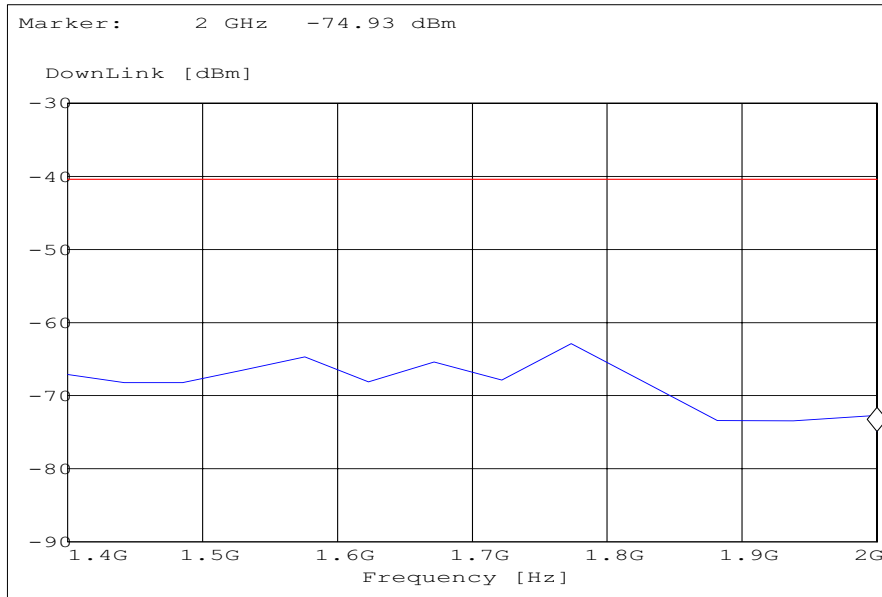


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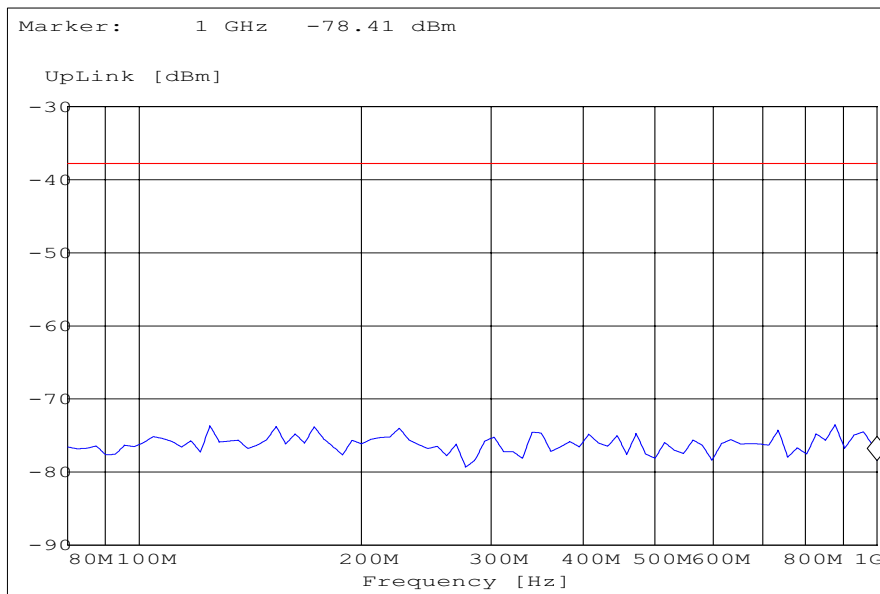
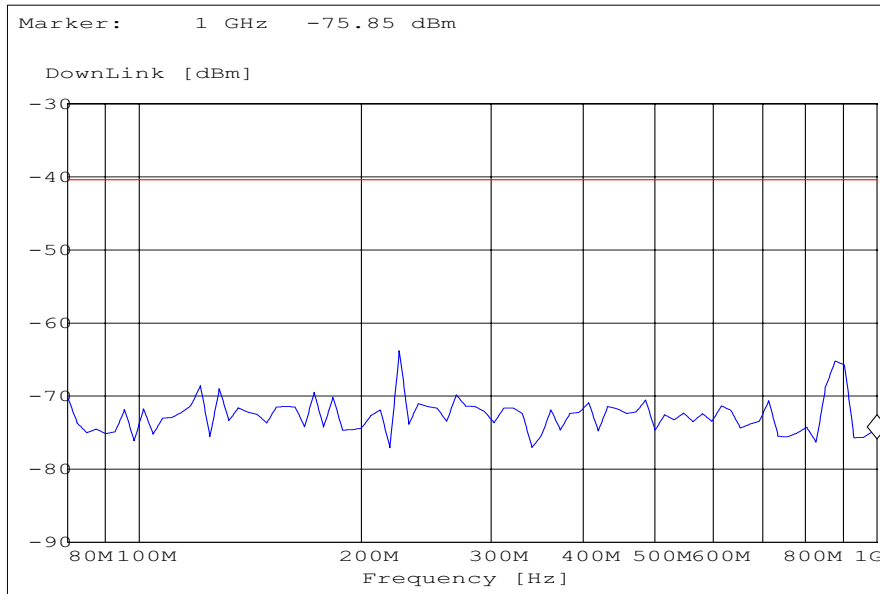
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Power Supply9:

GSM 850 charging with adaptor:

Horizontal:

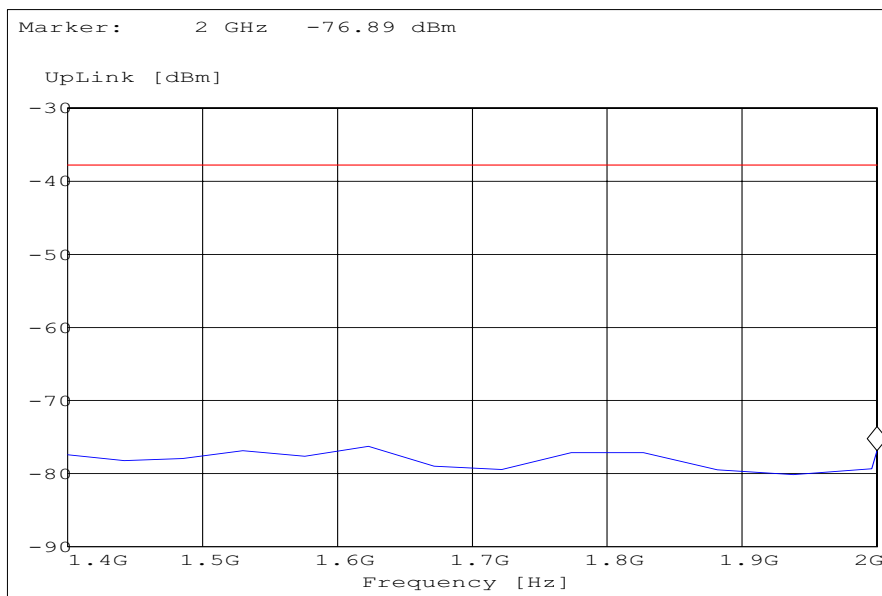
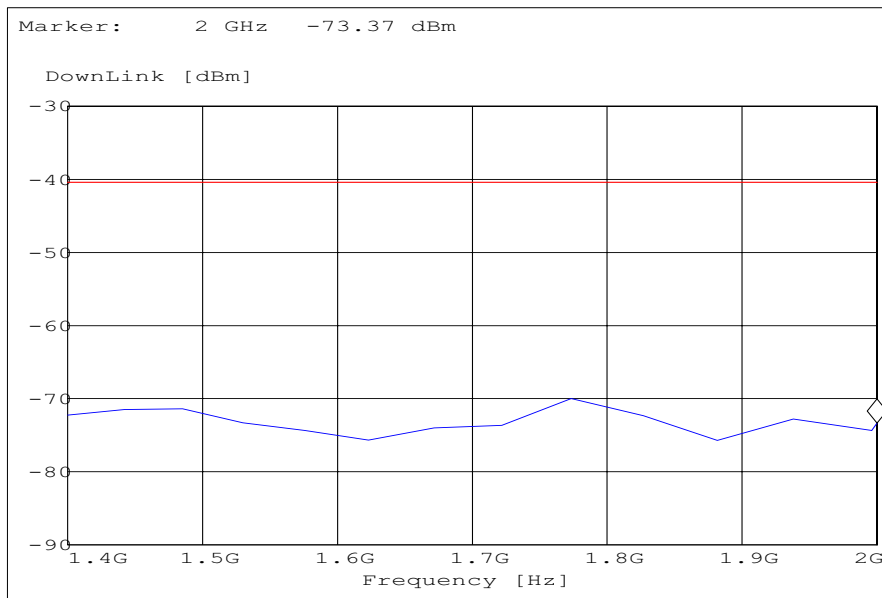


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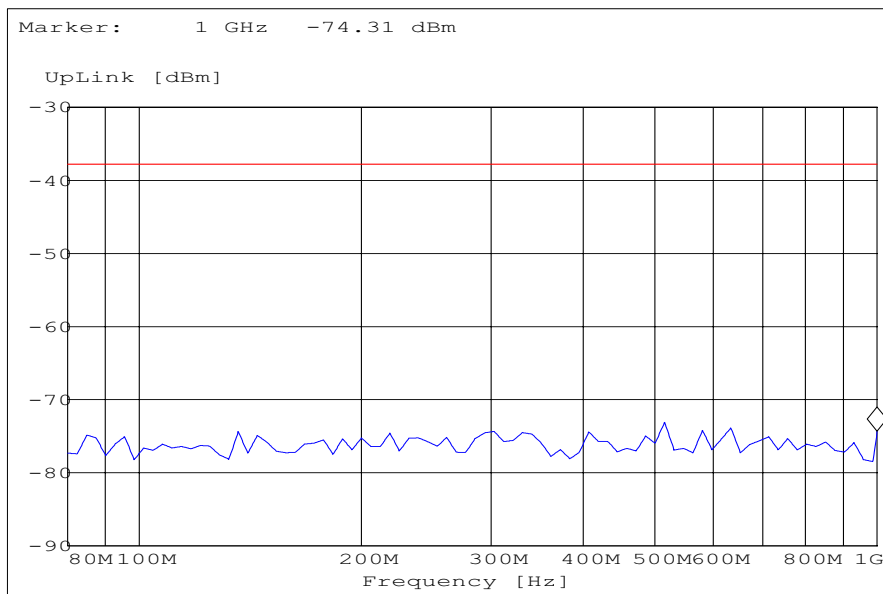
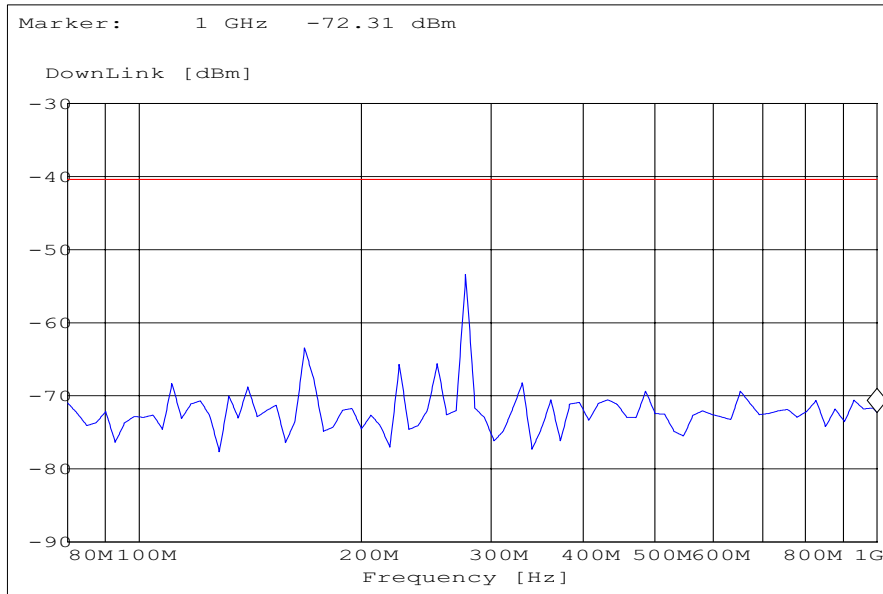
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Vertical:

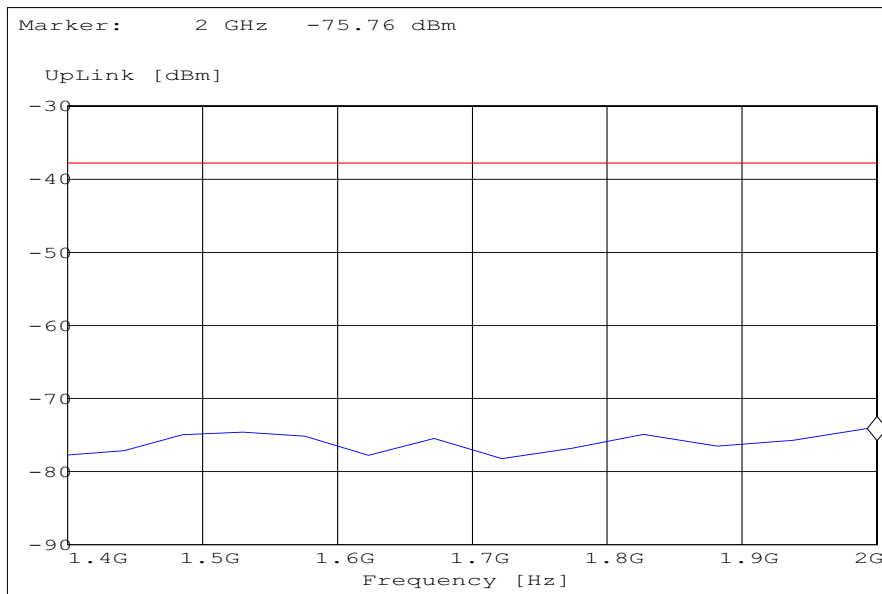
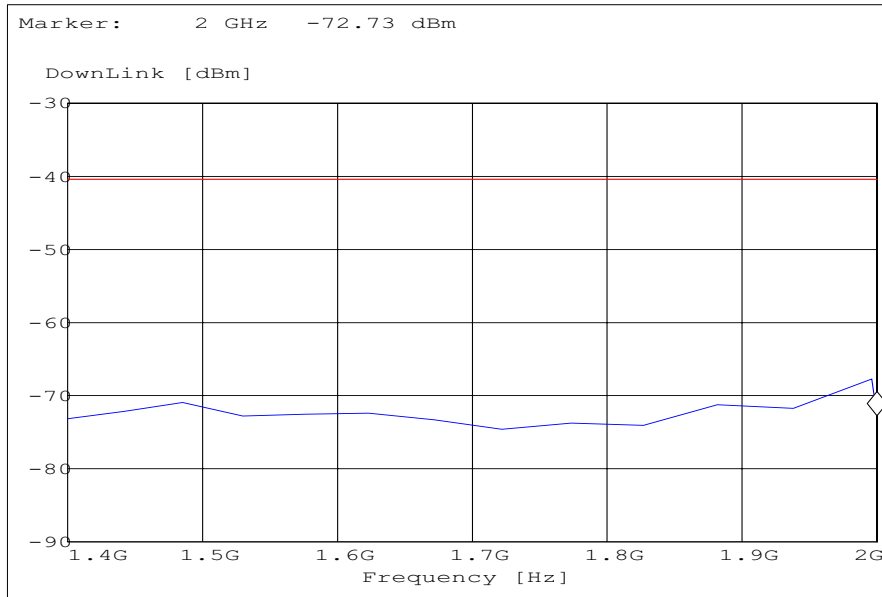


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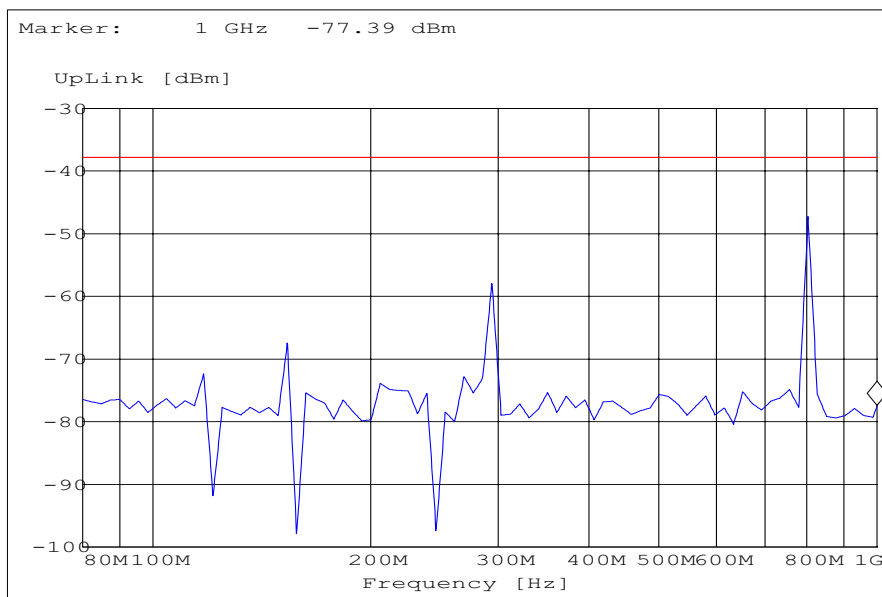
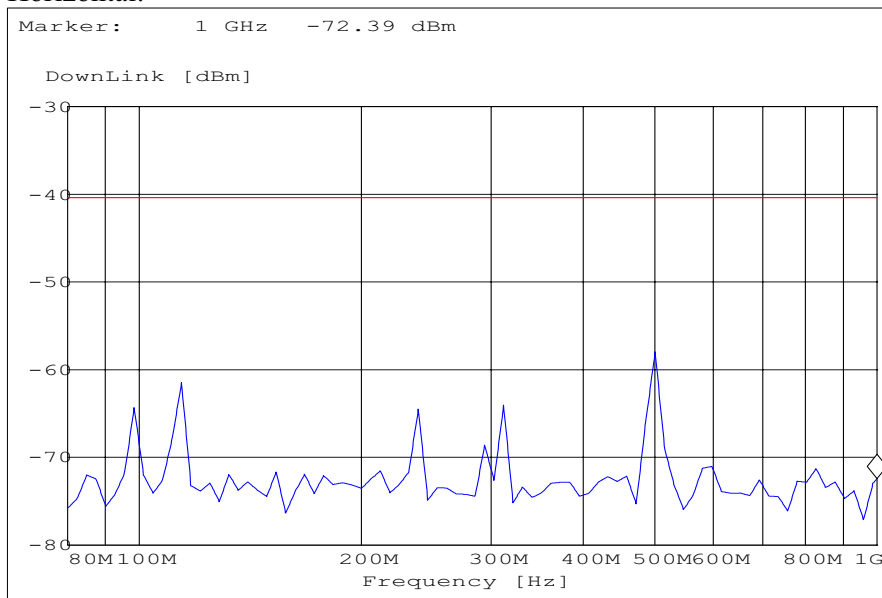
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PCS 1900 charging with adaptor:

Horizontal:

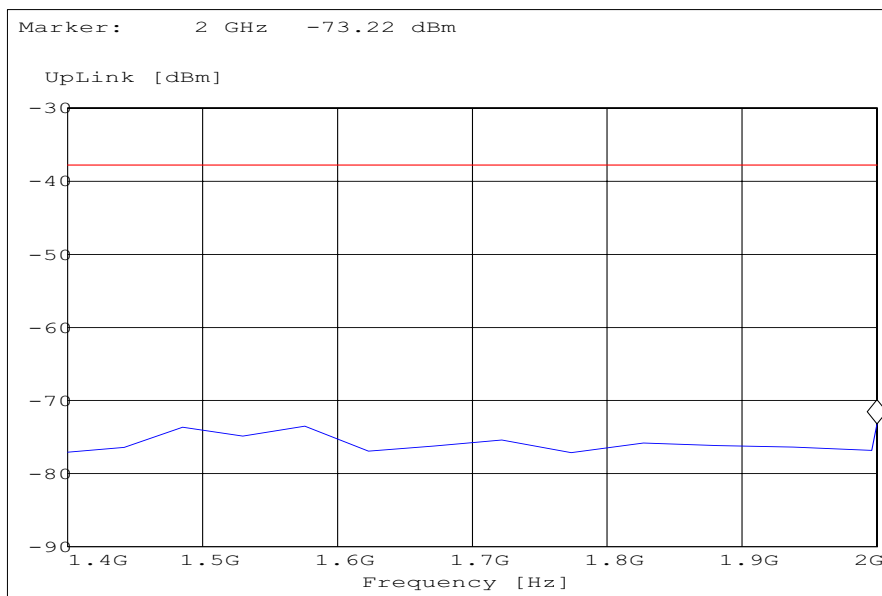
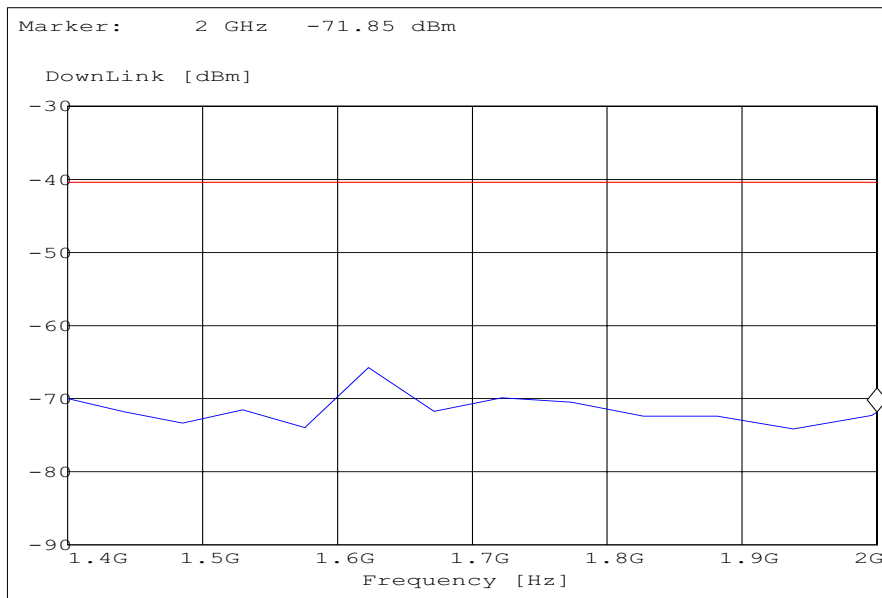


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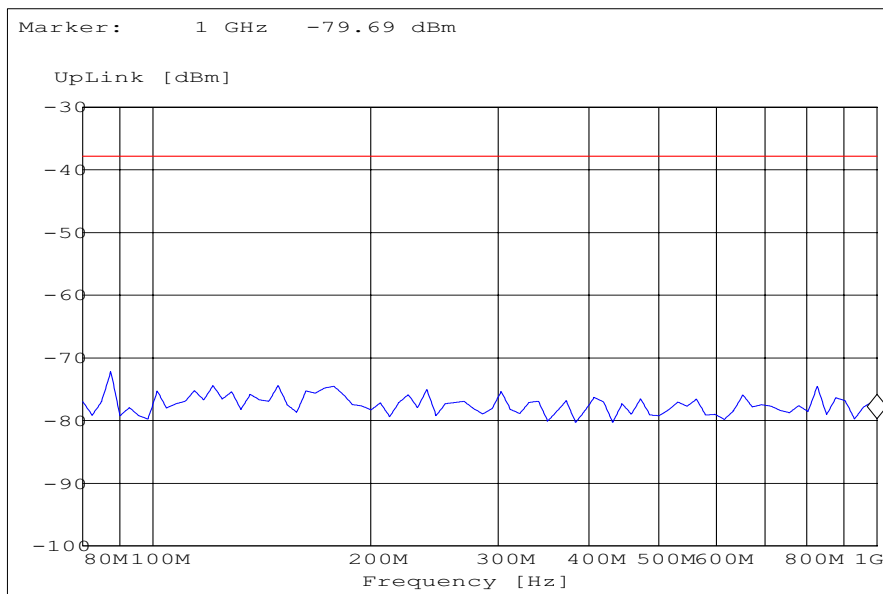
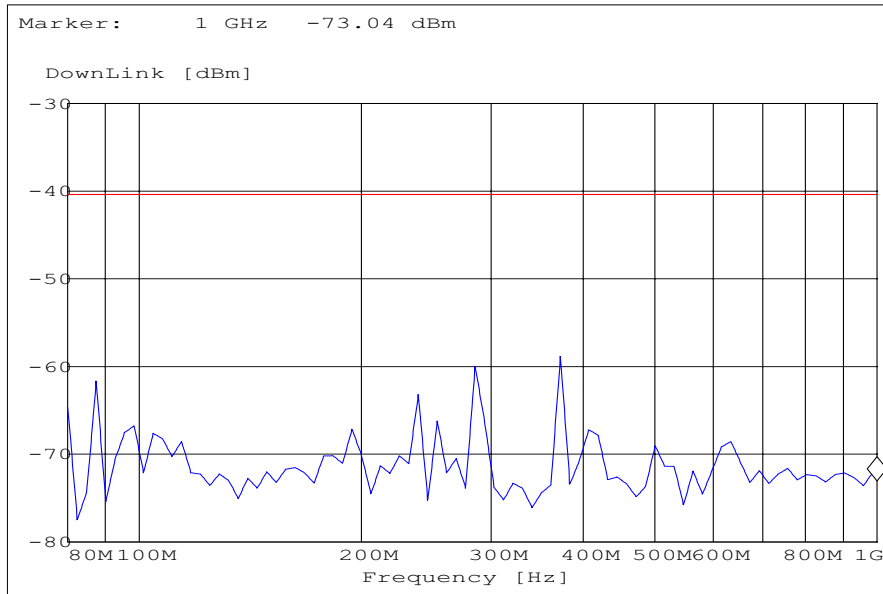
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Vertical:

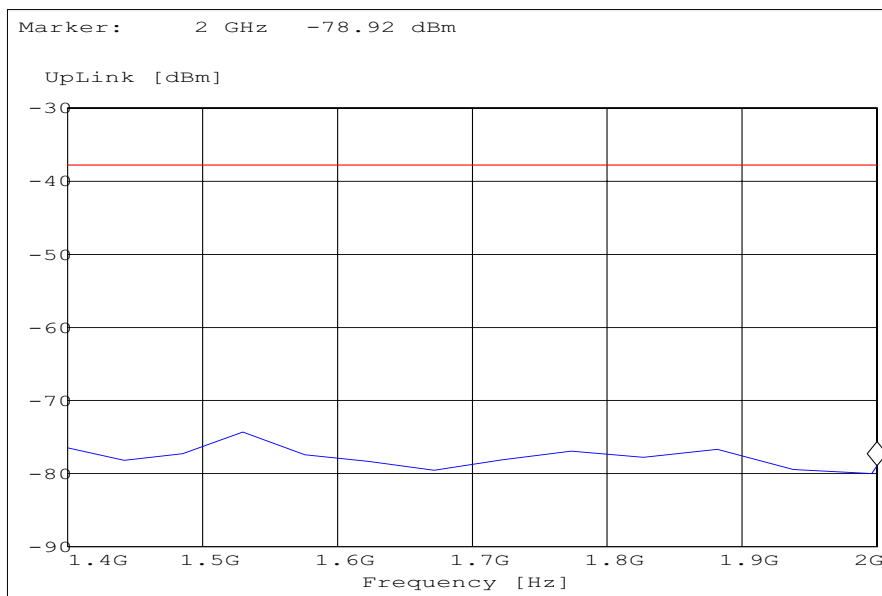
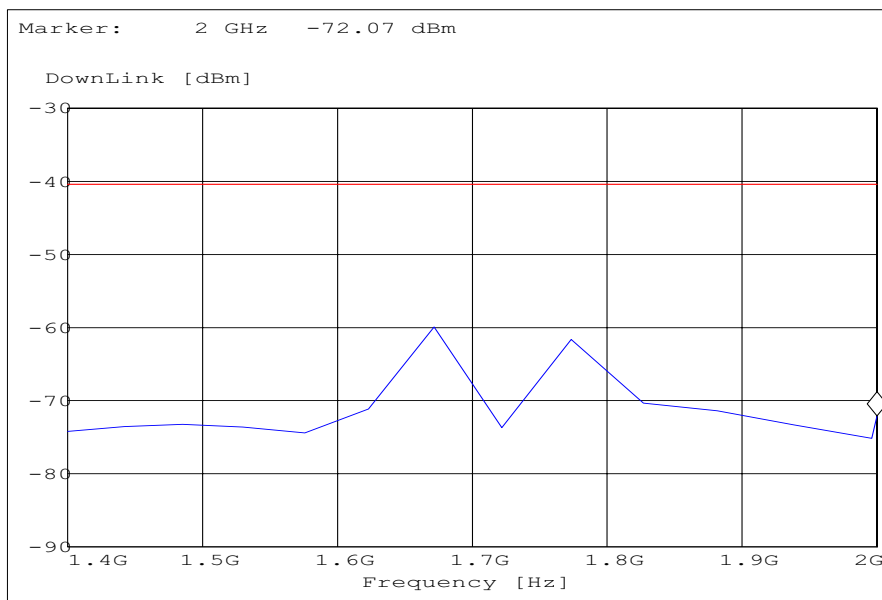


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5.3 ESD

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.3		
Test Method:	EN61000-4-2		
Test Date:	December 26, 2005		
Discharge Impedance:	330 Ω / 150 pF		
Discharge Voltage:	Air Discharge:	$\pm 2, \pm 4, \pm 8$ kV	
	Contact Discharge:	$\pm 2, \pm 4$ kV	
Polarity:	Positive & Negative		
Number of Discharge:	Minimum 10 times at each test point		
Discharge Mode:	Single Discharge		
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4		
Discharge Period:	1 second minimum		

5.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

EUT Test EUT is the in the allocated channel mode 850/1900MHz with headset

Operation: or charging with adaptor or connected with PC by USB.

5.3.2 Test Results

Pass

The communication link maintained and EUT operated as intended with no loss of user control functions or stored data, as declared by the manufacturer.

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5.4 Fast transients common mode

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.4
Test Method: EN61000-4-4
Test Date: December 26, 2005
Port open Voltage(line-line): Voltage 1kV
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period: 12 minute and 5 second minimum

5.4.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: adaptor.

5.4.2 Test result

Pass

No degradation in the performance of the EUT was observed

Test Procedure			IEC 61000-4- : Part 4		
Test setup:					
U:	1000	V			
f:	5	kHz			
td:	15	ms			
tr:	300	ms			
Mode:			Asynchron		
Polarity:			Alternate		
Coupling:			L, N, L+N		
Test duration:	2	minute	Time between Tests:	1	s

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5.5 Radio frequency common mode

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.5
Test Method:	EN61000-4-6
Test Date:	December 21, 2005
Frequency	150 kHz to 80 MHz
Amplitude	3 V rms unmodulated
Modulation:	80%, 1kHz Amplitude Modulation
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.1&6.3

5.5.1 E.U.T. Operation

Operating Environment:

Temperature: 2400°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with

Operation: adaptor.

5.5.2 Test Results:

Pass

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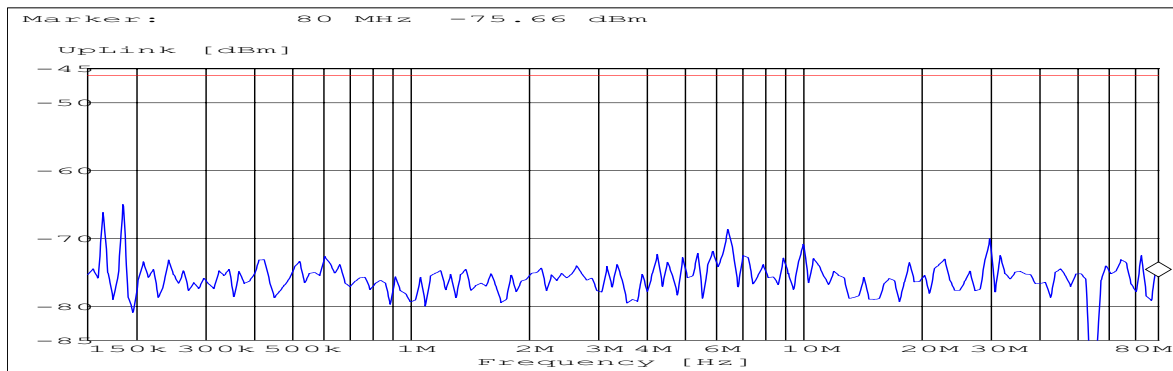
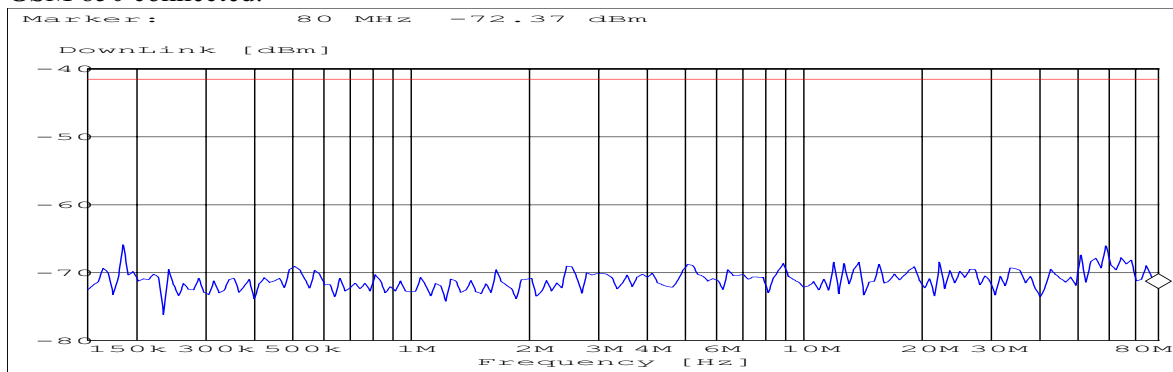
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Power Supply1:

GSM 850 connected:



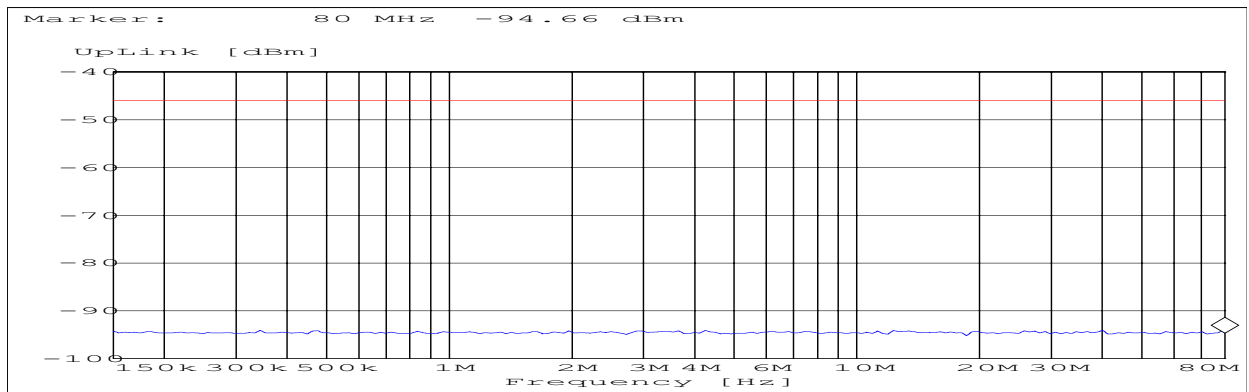
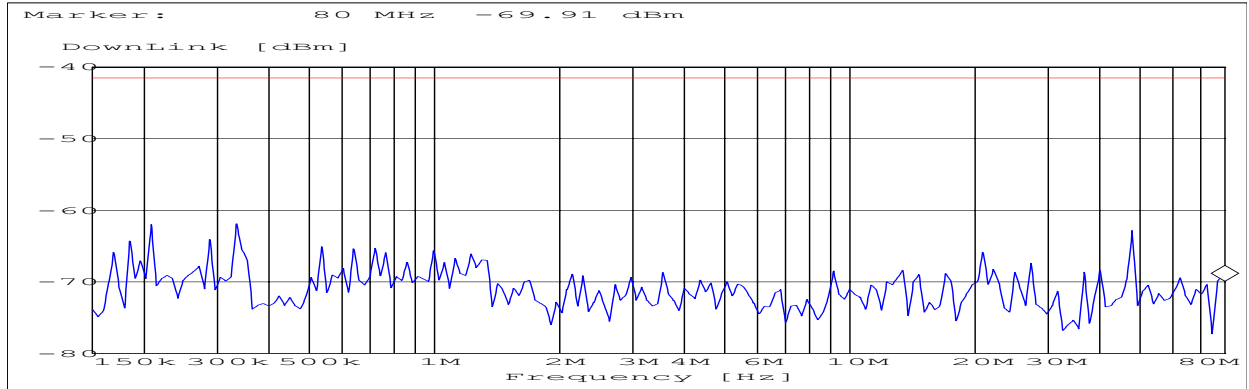
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PCS 1900 connected:



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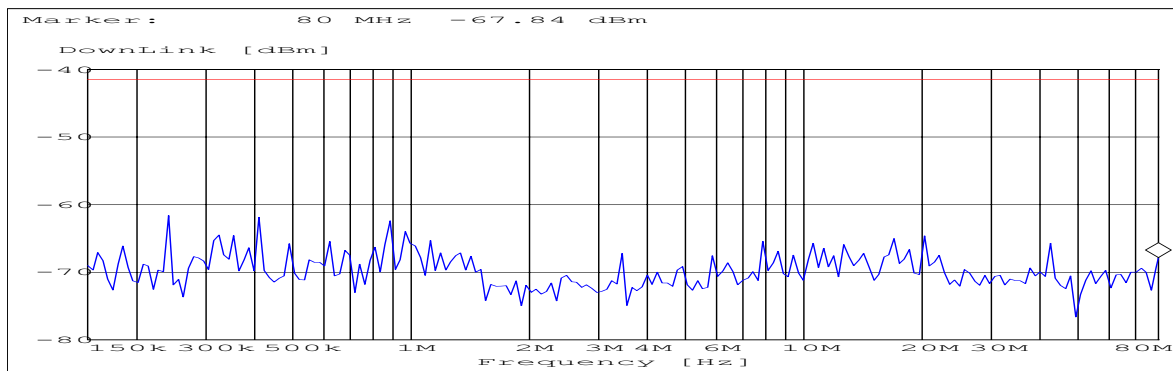
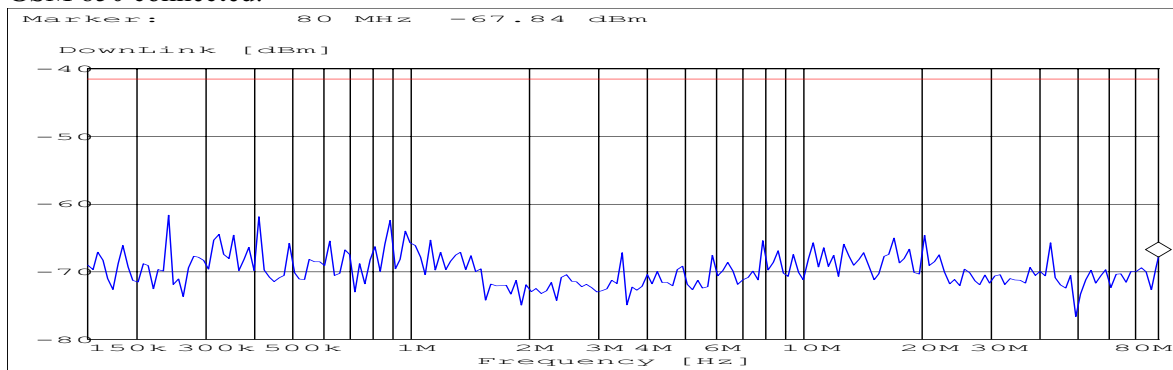
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Power Supply2:

GSM 850 connected:



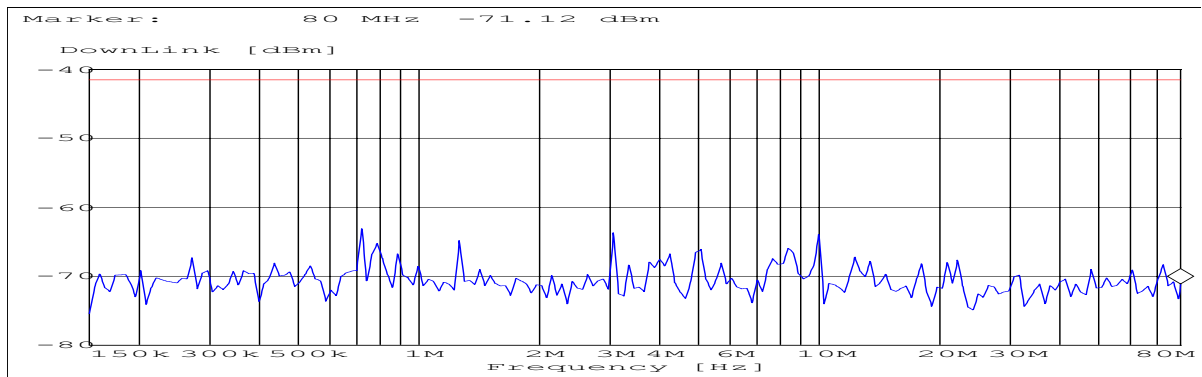
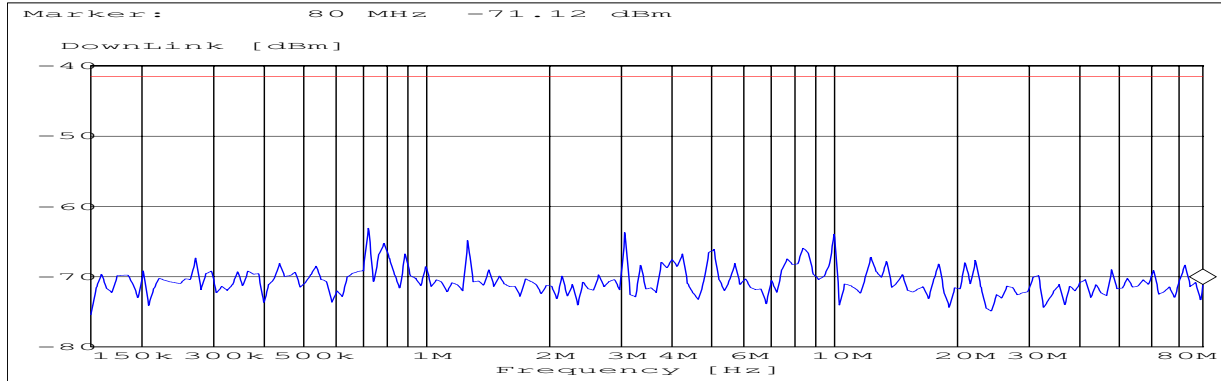
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PCS 1900 connected:



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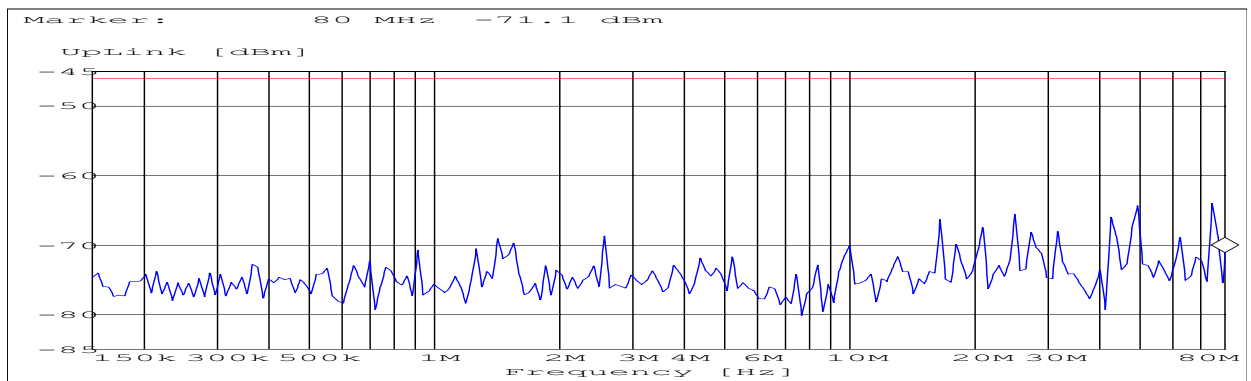
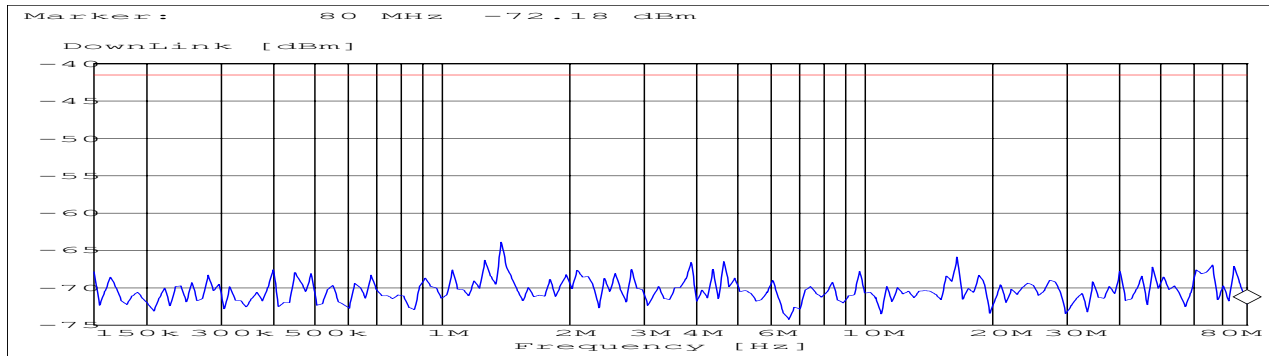
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Power Supply3:

GSM 850 connected:



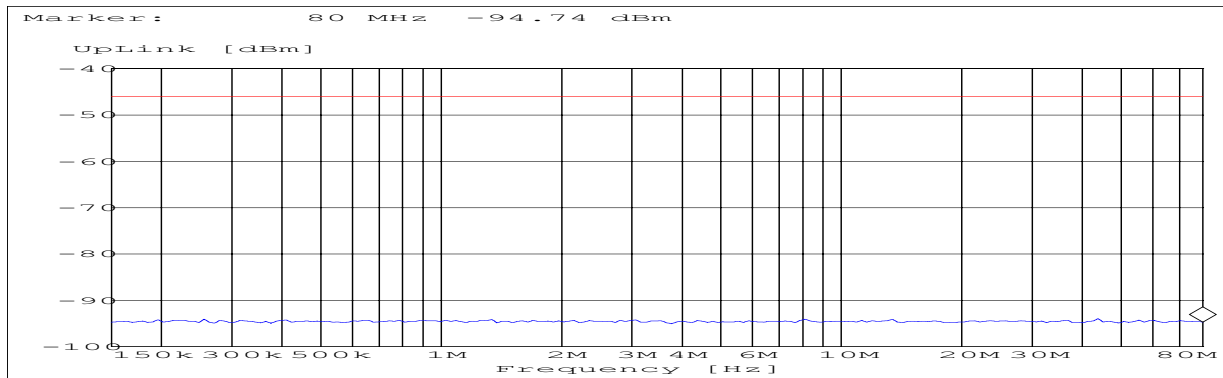
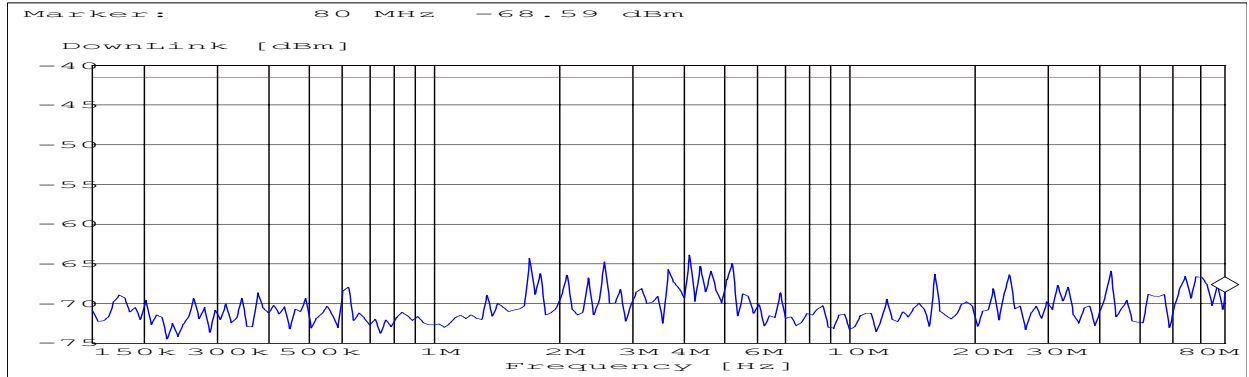
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PCS 1900 connected:



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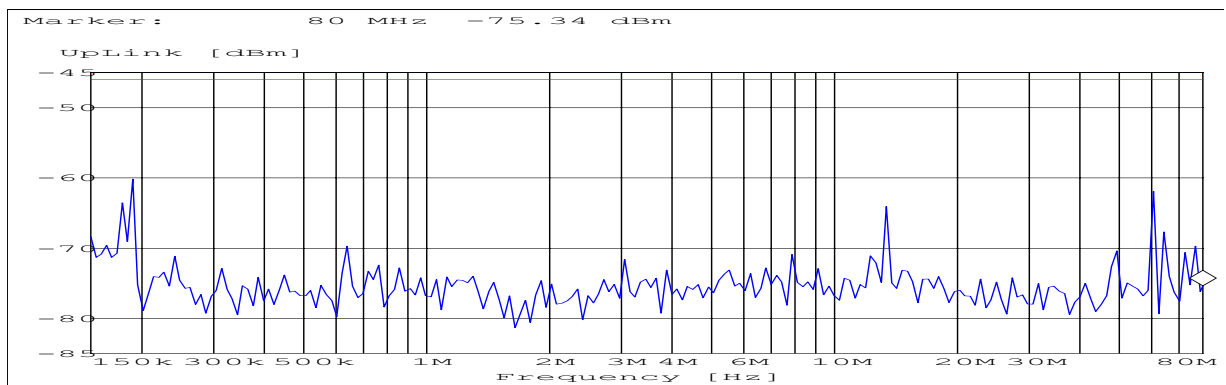
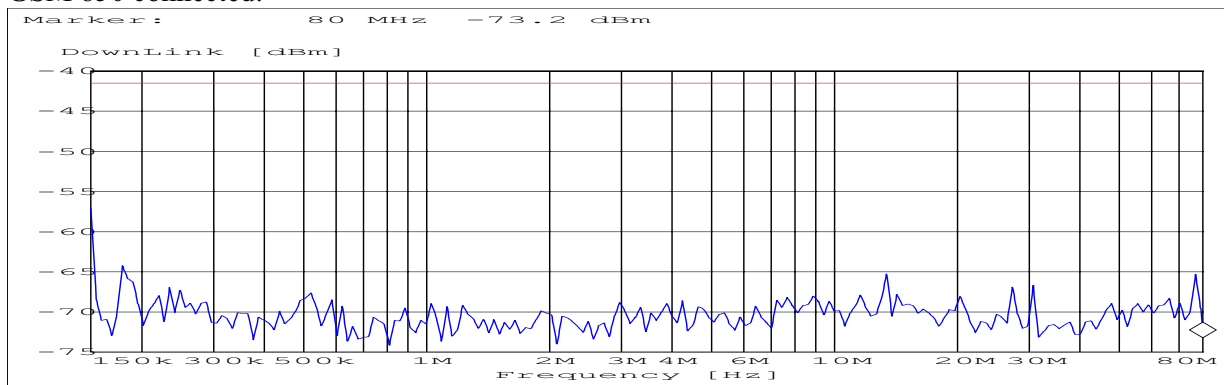
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Power Supply4:

GSM 850 connected:



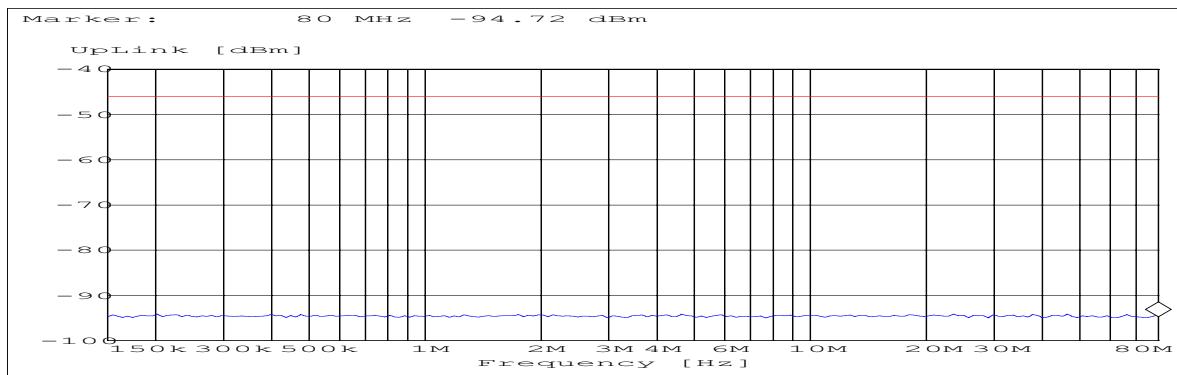
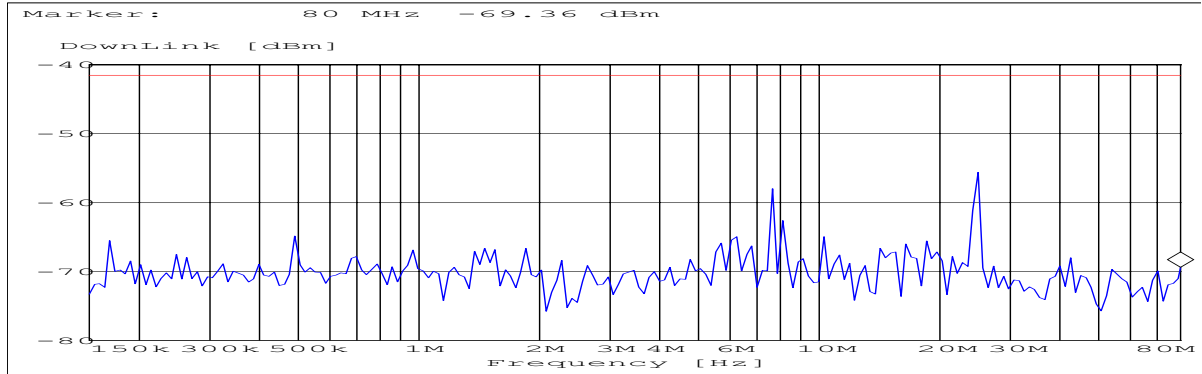
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PCS 1900 connected:



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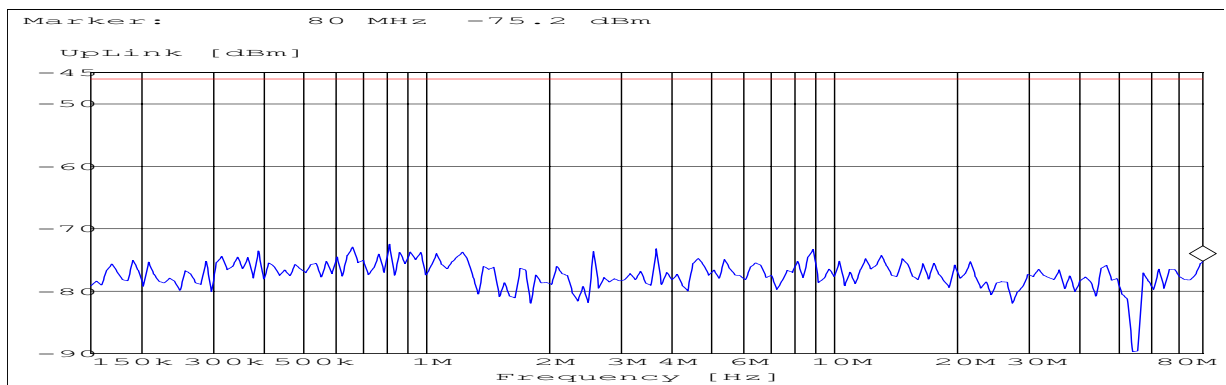
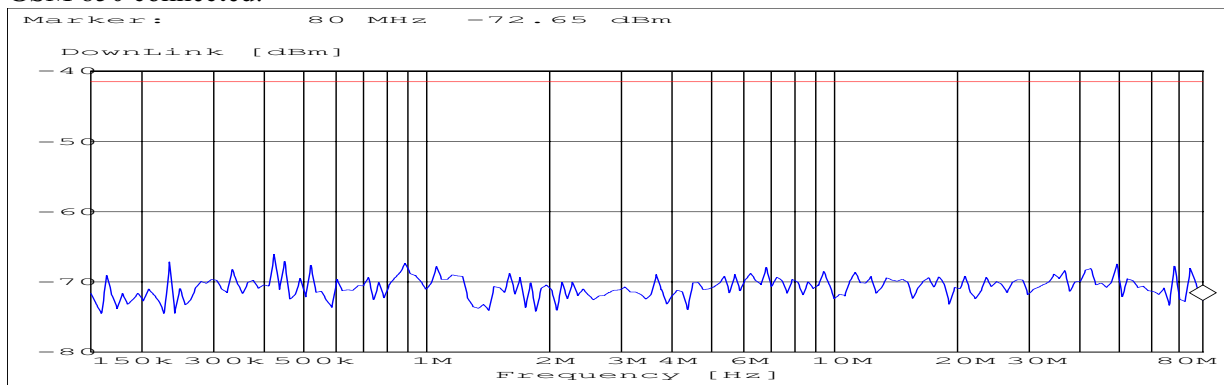
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Power Supply5:

GSM 850 connected:



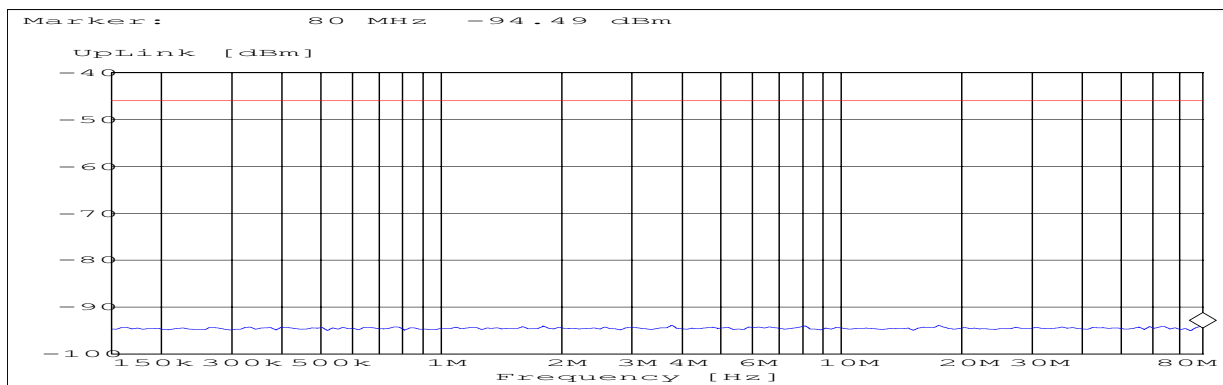
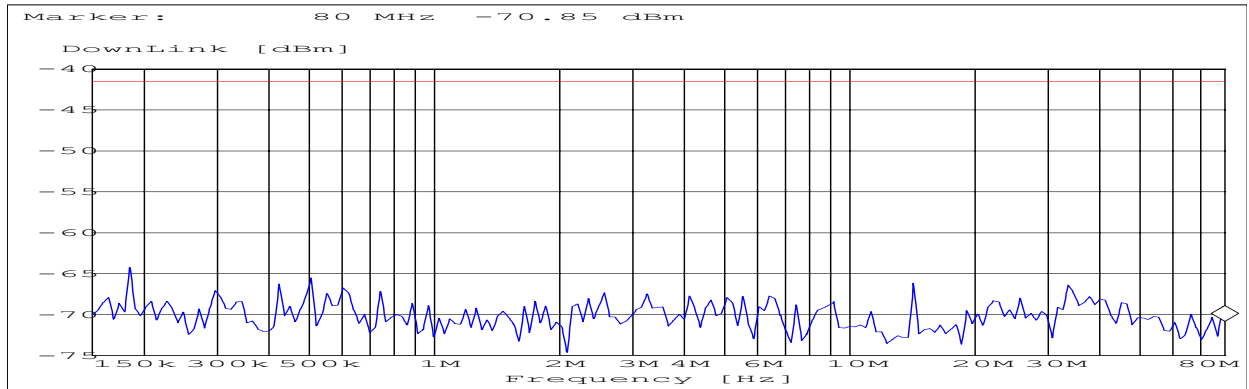
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PCS 1900 connected:



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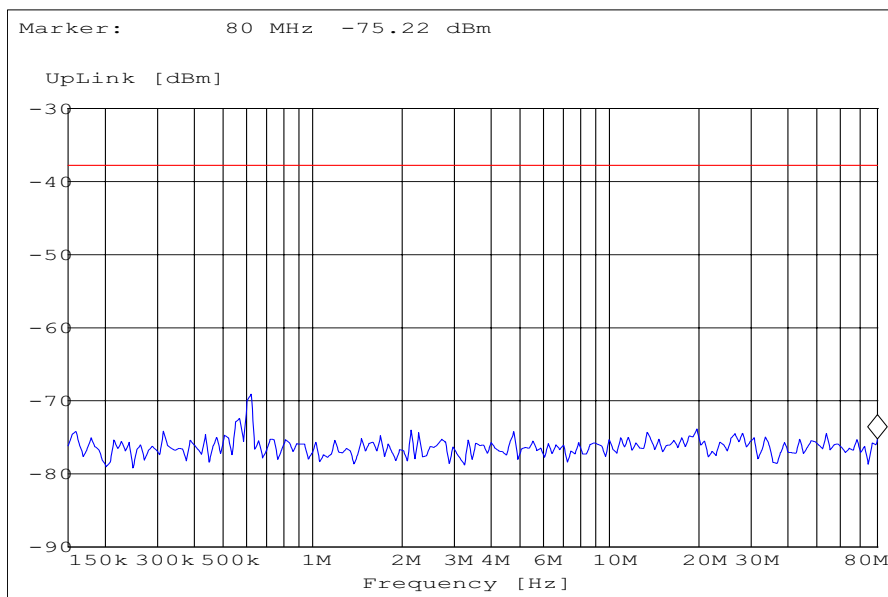
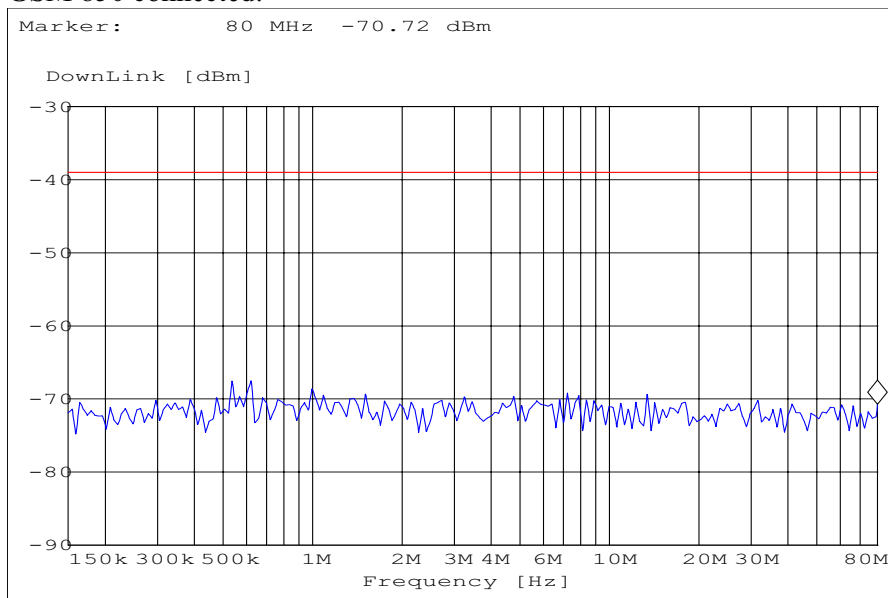
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Power Supply7:

GSM 850 connected:



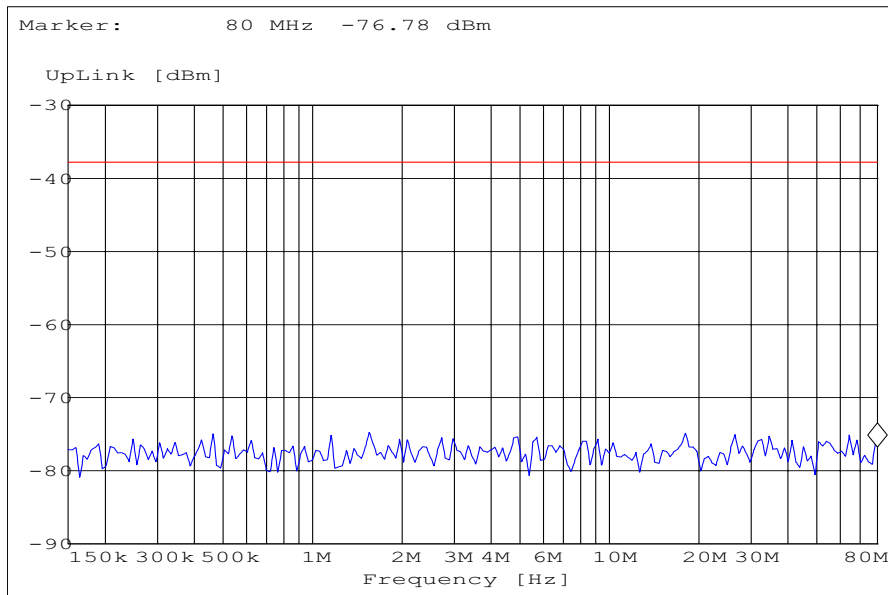
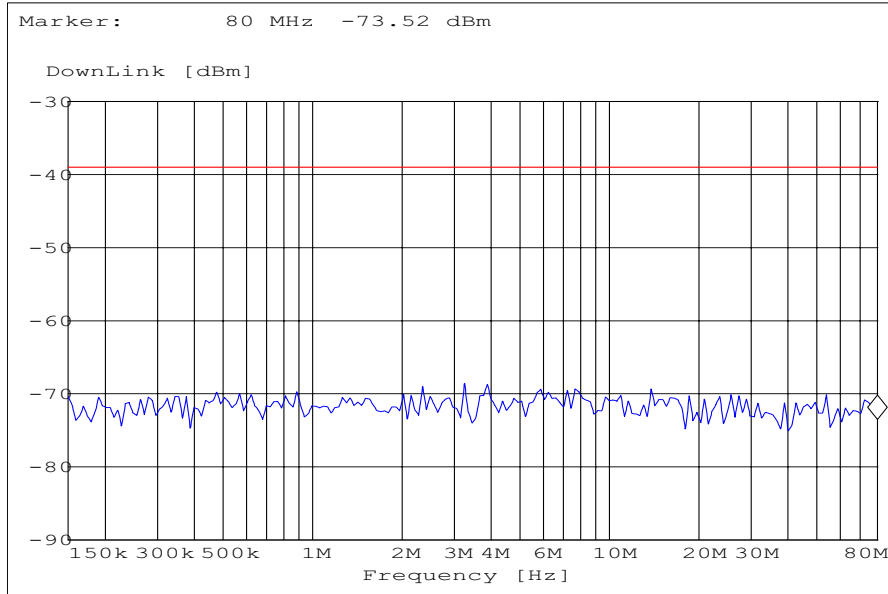
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PCS 1900 connected:



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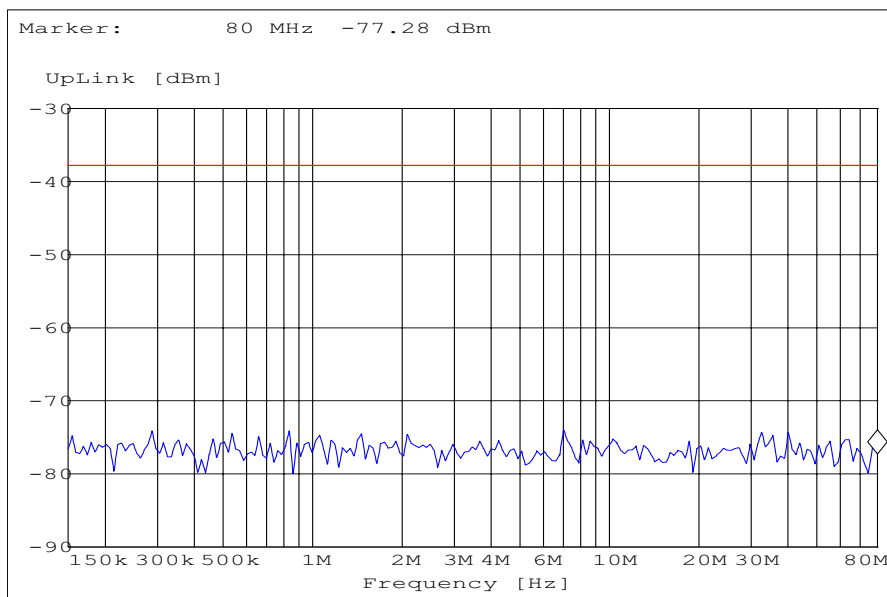
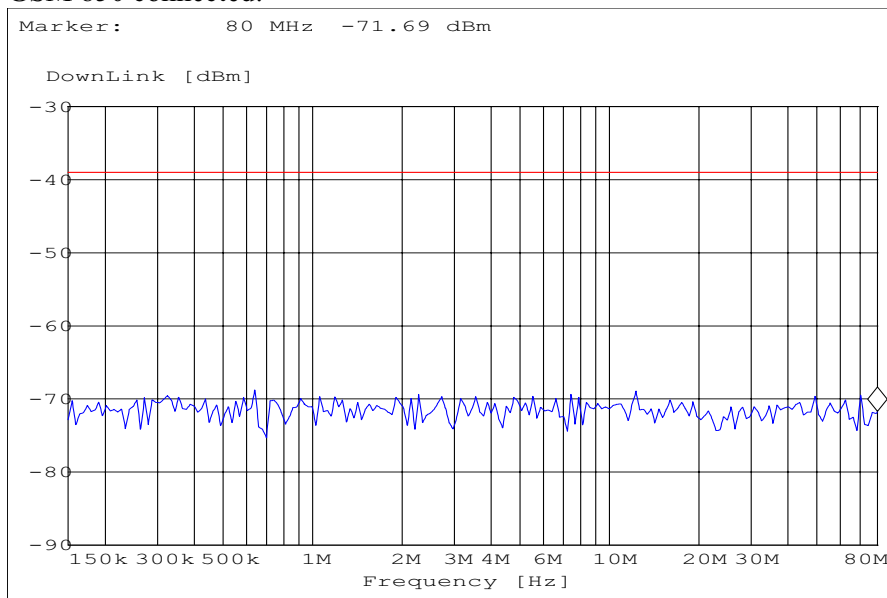
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Power Supply8:

GSM 850 connected:



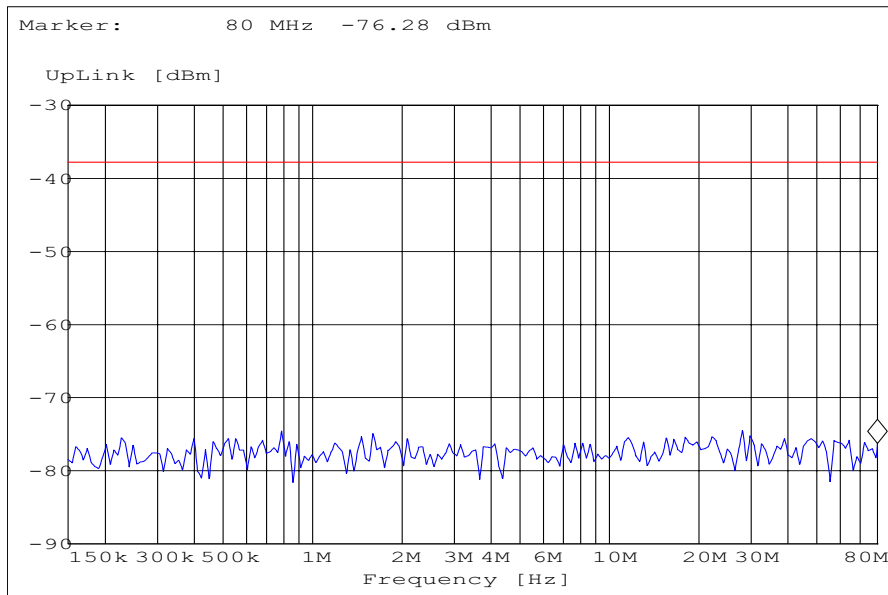
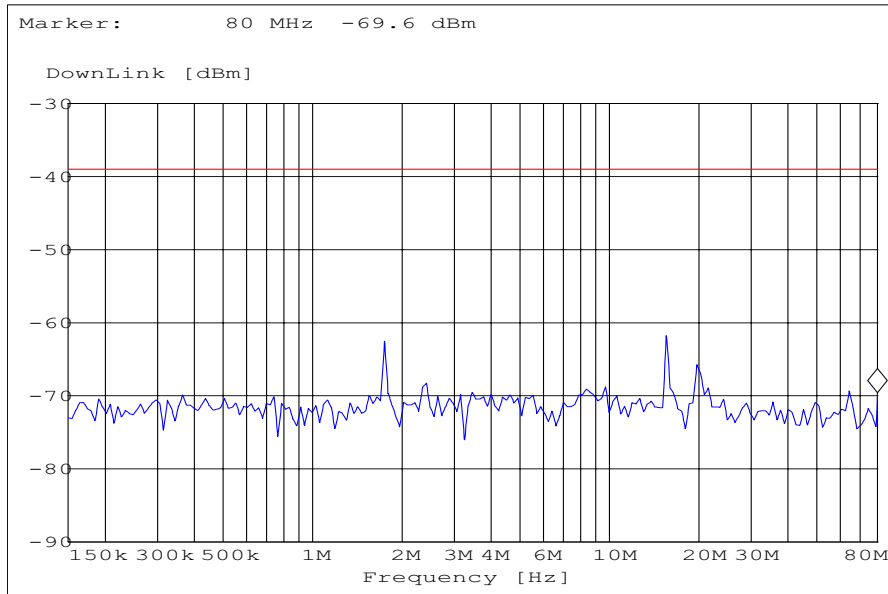
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PCS 1900 connected:



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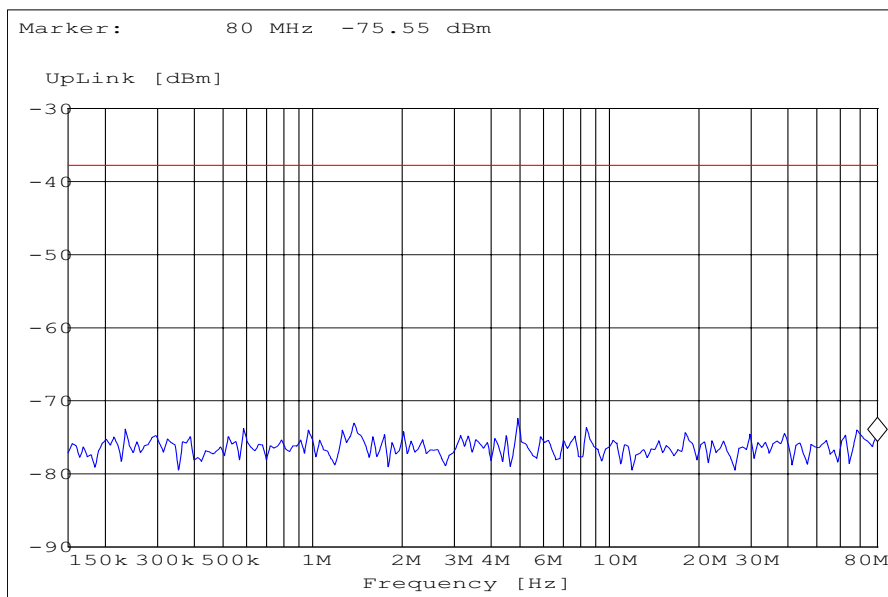
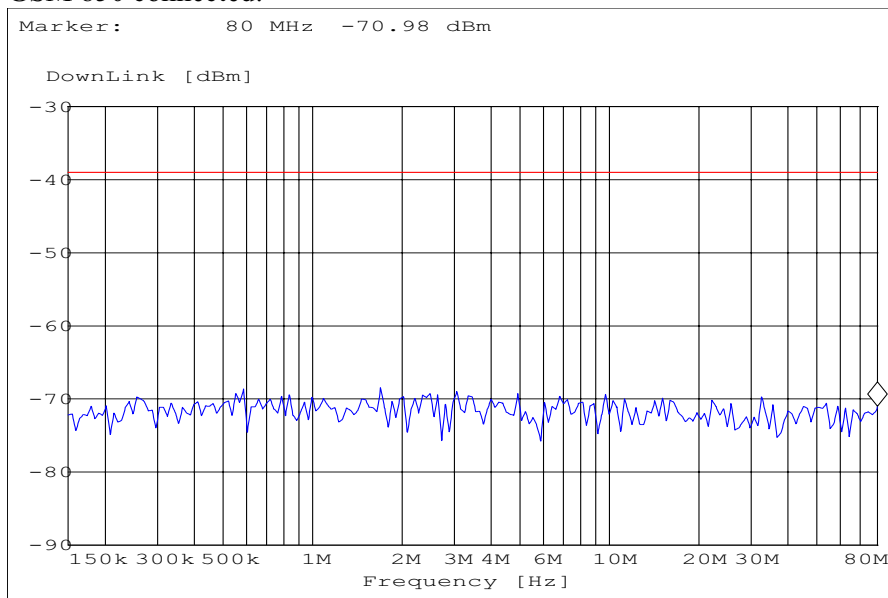
1/F, 6/F,7/F, 9/F, 10/F, the 3rd Building No. 889,
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Power Supply9:

GSM 850 connected:



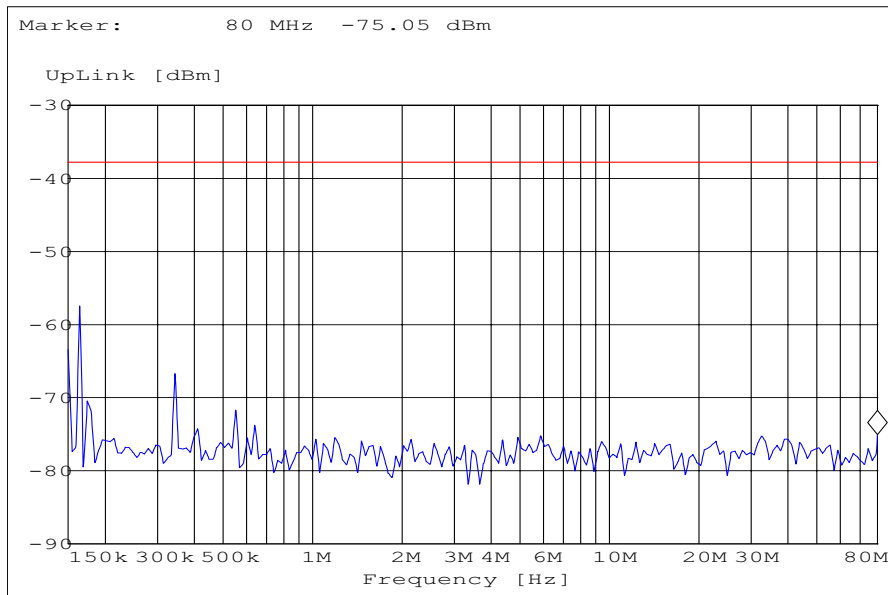
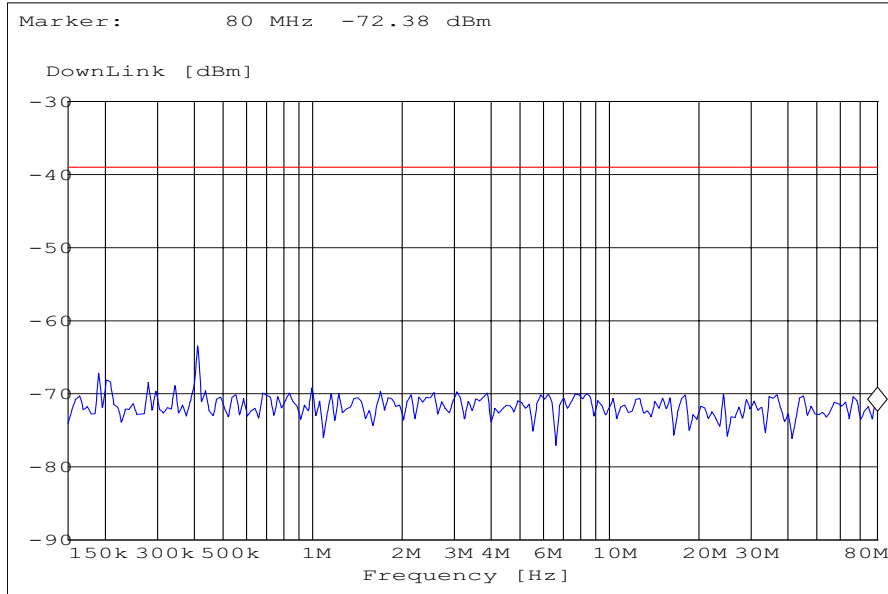
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PCS 1900 connected:



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5.6 Voltage dips and interruptions

Test Requirement:	ETSI EN 301 489-1 V1.4.1 (2002-08) 9.7
Test Method:	EN61000-4-11
Test Date:	December 26, 2005
Voltage dip1	30 % for 10 ms
Voltage dip2	60 % for 100 ms
Voltage interruption	Greater than 95 % for 5 000 ms
Criteria	ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period	Half a hour minimum

5.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

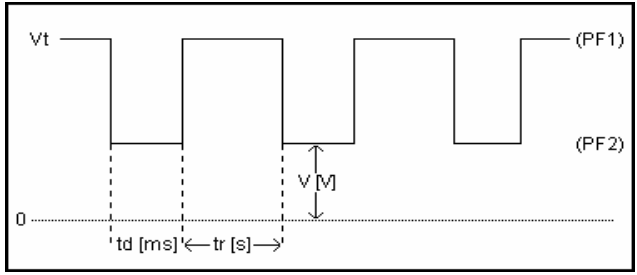
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with

Operation: adaptor.

5.6.2 Test Results:

Pass

No obvious degradation in the performance of the EUT was observed

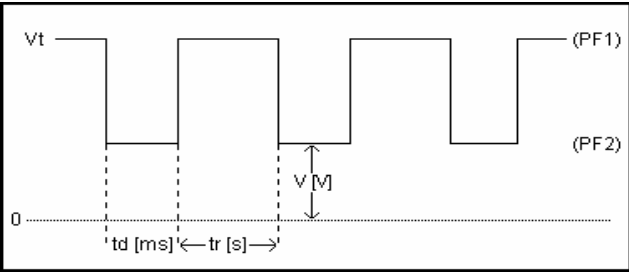
Test Procedure			IEC 61000-4- : Part 11		
Test setup:					
V:	154	V			
td:	10	ms			
tr:	10	s			
Mode:		Asynchron			
Test Type:		Dips			
Events:	5	Time between Tests:		10	s

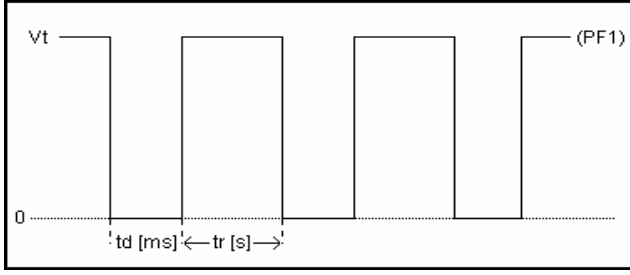
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Test Procedure			IEC 61000-4- : Part 11
Test setup:			
V:	88	V	
td:	100	ms	
tr:	10	s	
Mode:	Asynchron		
Test Type:	Dips		
Events:	5	Time between Tests:	10 s

Test Procedure			IEC 61000-4- : Part 11
Test setup:			
td:	5000	ms	
tr:	10	s	
Mode:	Asynchron		
Test Type:	PF1		
Events:	5	Time between Tests:	10 s

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5.7 Surges

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.8
Test Method: EN61000-4-5
Test Date: December 26, 2005
Line to Line voltage 0.5 kV
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.2&6.4
Period 45 minute minimum

5.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar

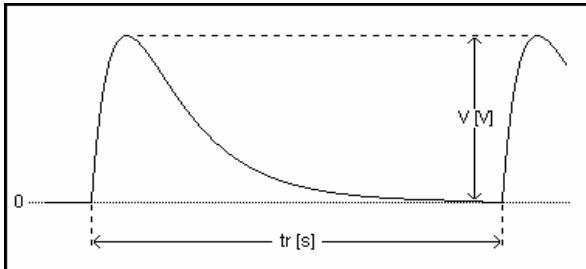
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with

Operation: adaptor.

5.7.2 Test Results:

Pass

No obvious degradation in the performance of the EUT was observed

Test Procedure			IEC 61000-4- : Part 5	
Pulse (Open circuit)	1.2/50 us		Pulse (Short circuit)	8/20 us
Test setup:				
V:	500	V		
tr:	60	s		
Angle (Start):	0	°		
Angle (Stop):	270	°		
Angle (Step):	90	°		
Mode:		Synchron		
Polarity:		Alternate		
Coupling:		L-N		
Events:	5			

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5.8 Transients and surges in the vehicular environment

Test Requirement: ETSI EN 301 489-1 V1.4.1 (2002-08) 9.6
Test Method: ETSI EN301 489-1 clause 9.6.2 (ISO 7637-1 [14])
ETSI EN301 489-1 clause 9.6.2 (ISO 7637-2 [15])
Test Date: December 26, 2005
Criteria ETSI EN 301 489-7 V1.2.1 (2002-08) 6.1&6.2&6.3&6.4

5.8.1 E.U.T. Operation

Operating Environment:
Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 1012 mbar
EUT Test EUT is the in the allocated channel mode 850/1900MHz charging with
Operation: DC adaptor.

5.8.2 Test Results:

ETSI EN301 489-1 clause 9.6.2.1 (ISO 7637-1 [14]) for 12VDC power equipment	
Requirements	Observation (Performance Criterion)
Pulse 3a and 3b, level II, with the test time reduced to 5 min for each	No Loss of Function (A)
Pulse 4, level II, 5 pulses, with the characteristics as follows: $V_s = -5\text{ V}$; $V_a = -2,5\text{ V}$; $t_6 = 25\text{ ms}$; $t_7 = 50\text{ ms}$; $t_8 = 5\text{ s}$; $t_f = 5\text{ ms}$; pulse cycle time: 60 s	No Loss of Function (A)
Pulse 1, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)
Pulse 2, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)
Pulse 7, level II: 5 pulses	No Loss of Function (A)

ETSI EN301 489-1 clause 9.6.2.2 (ISO 7637-2 [15]) for 24VDC power equipment	
Requirements	Observation (Performance Criterion)
Pulse 3a and 3b, level II, with the test time reduced to 5 min for each	No Loss of Function (A)
Pulse 4, level II, 5 pulses, with the characteristics as follows: $V_s = -10\text{ V}$; $V_a = -5\text{ V}$; $t_6 = 25\text{ ms}$; $t_7 = 50\text{ ms}$; $t_8 = 5\text{ s}$; $t_f = 10\text{ ms}$; pulse cycle time: 60 s	No Loss of Function (A)
Pulse 1a, level II: $t_1 = 2,5\text{ s}$; $R_i = 25\Omega$; 10 pulses	No Loss of Function (A)
Pulse 1b, level II: $t_1 = 2,5\text{ s}$; $R_i = 100\Omega$; 10 pulses	No Loss of Function (A)
Pulse 2, level II: $t_1 = 2,5\text{ s}$; 10 pulses	No Loss of Function (A)

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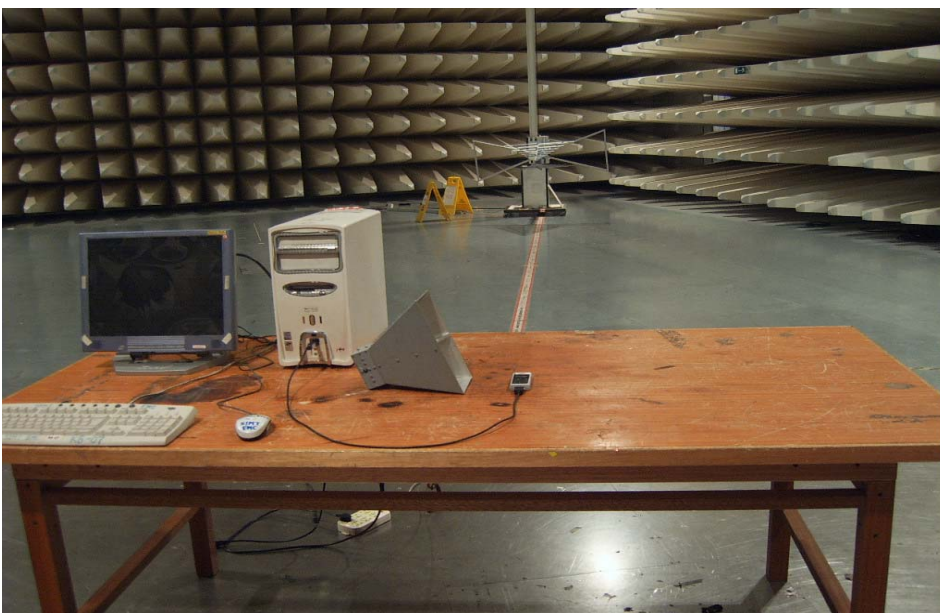
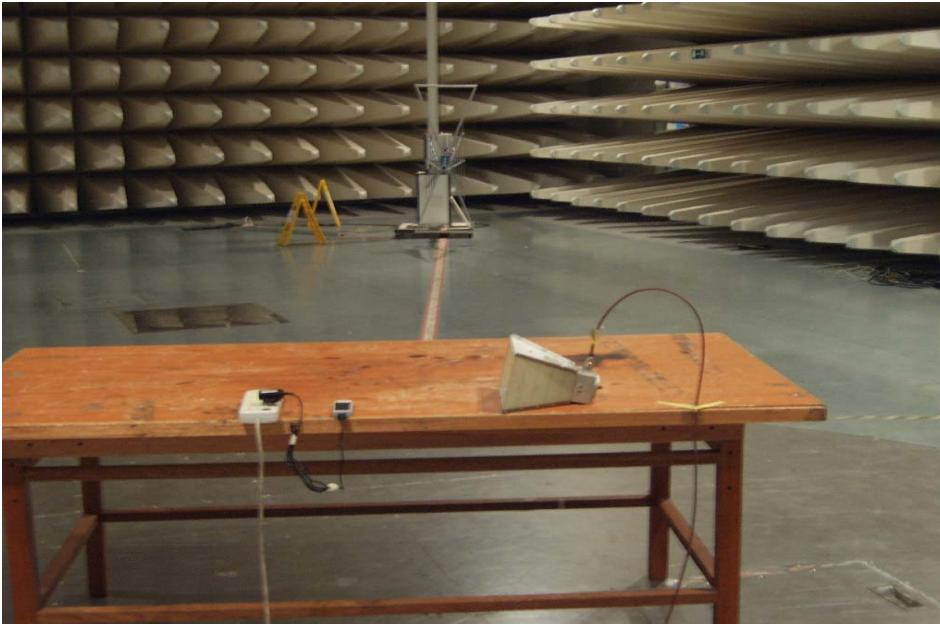
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6 EQUIPMENT UNDER TEST PICTURES

6.1.1 Radiated Emission Test Setup



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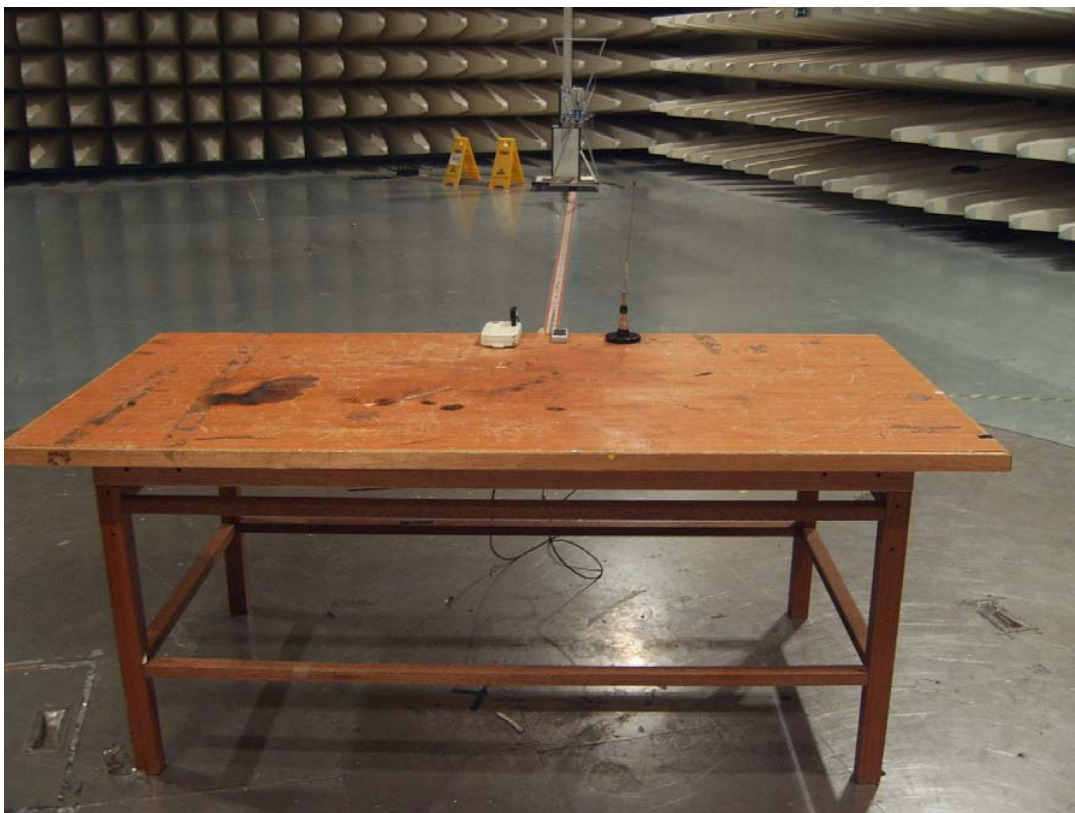
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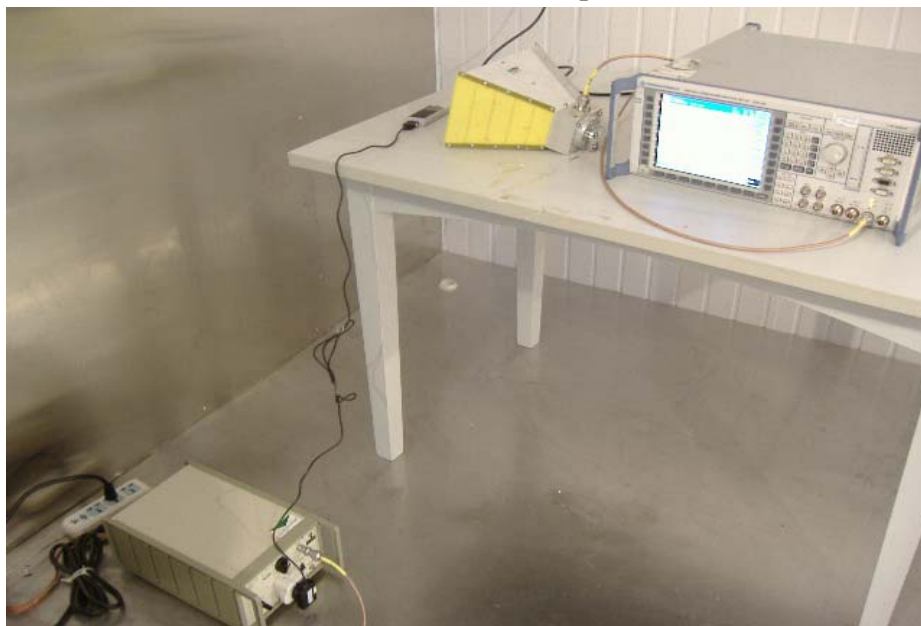
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6.1.2 Conducted Emission Test Setup



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6.1.3 ESD Test Setup



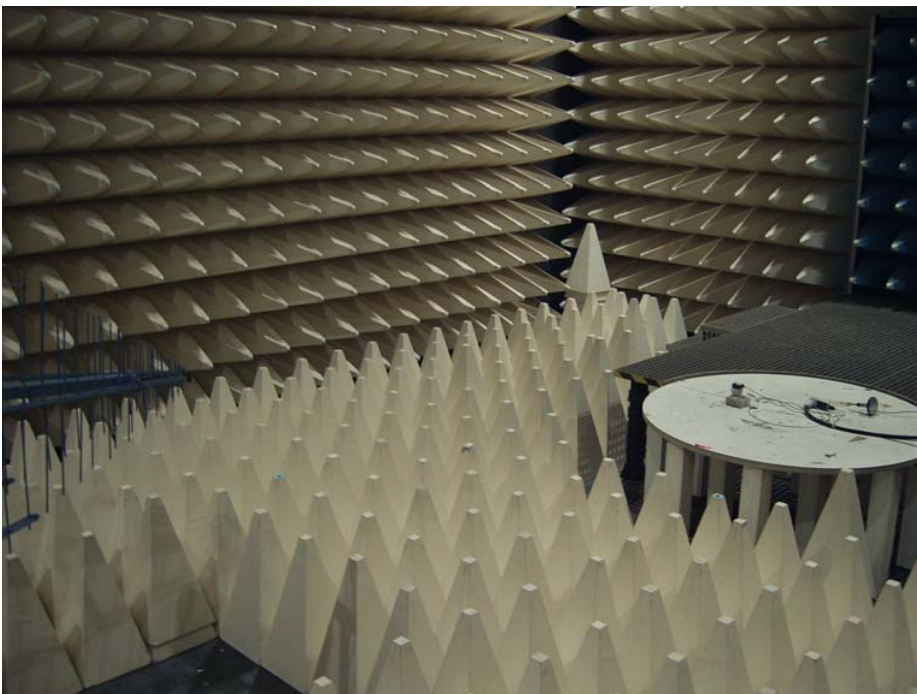
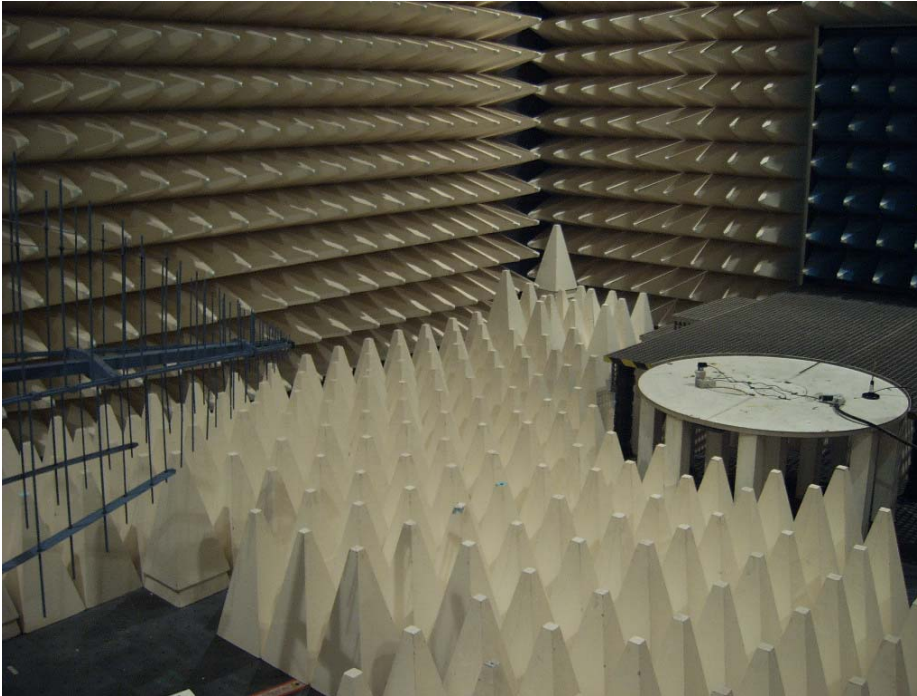
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6.1.4 Radiated Immunity Test Setup



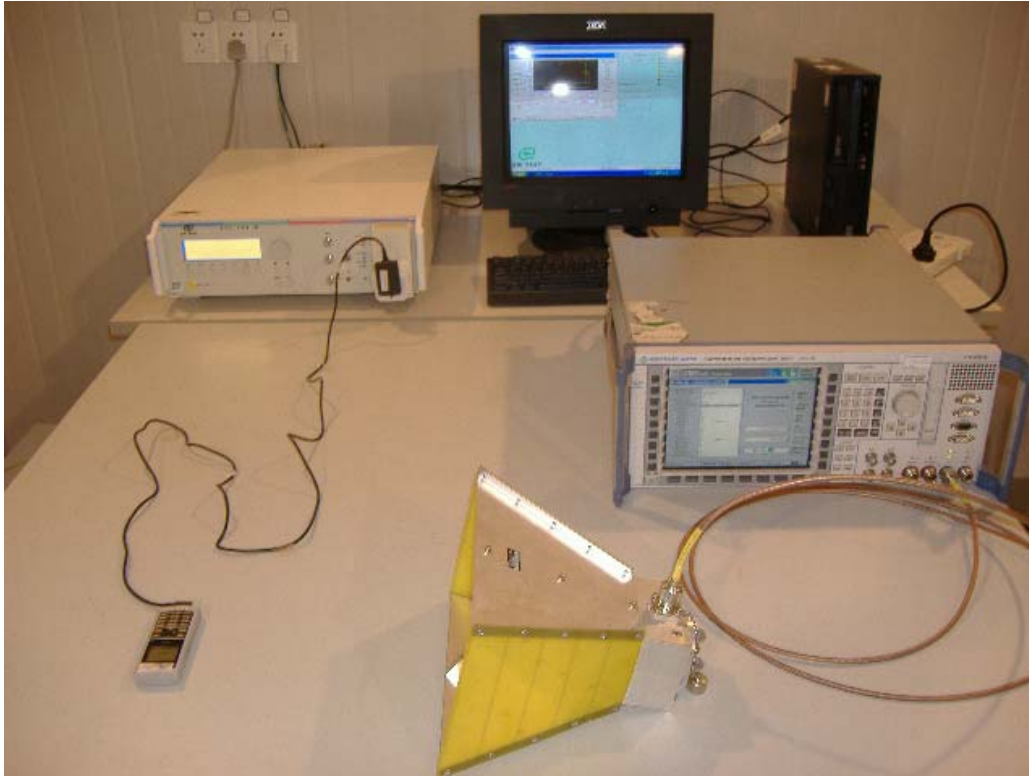
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6.1.6 Surges/EFT/Dips Test Setup



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6.1.7 Surges and Transients in the vehicular environment Test Setup



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7 EUT Constructional Details



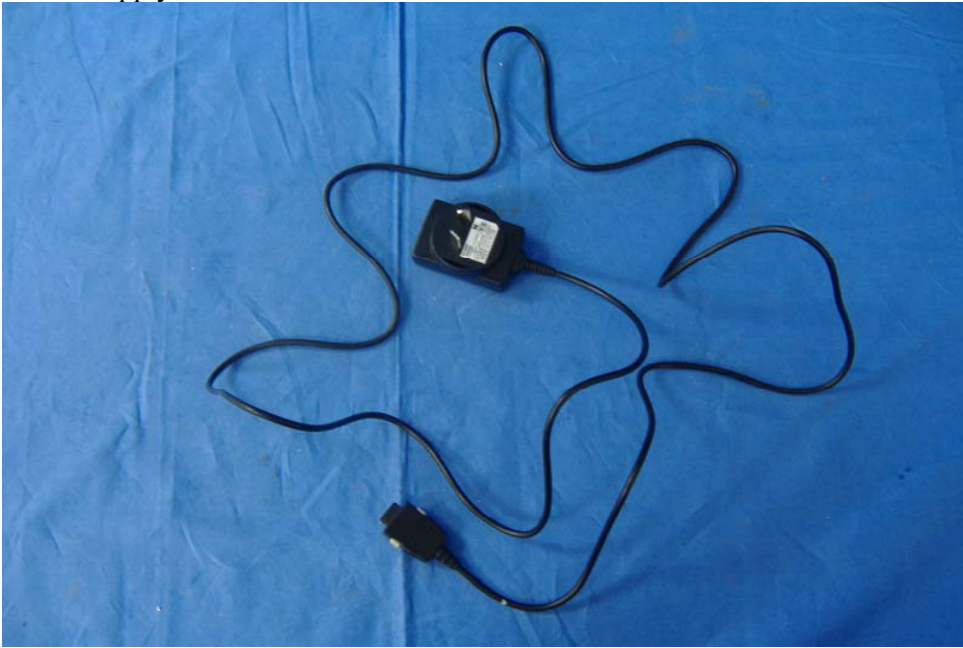
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Power Supply1:



Power Supply2:



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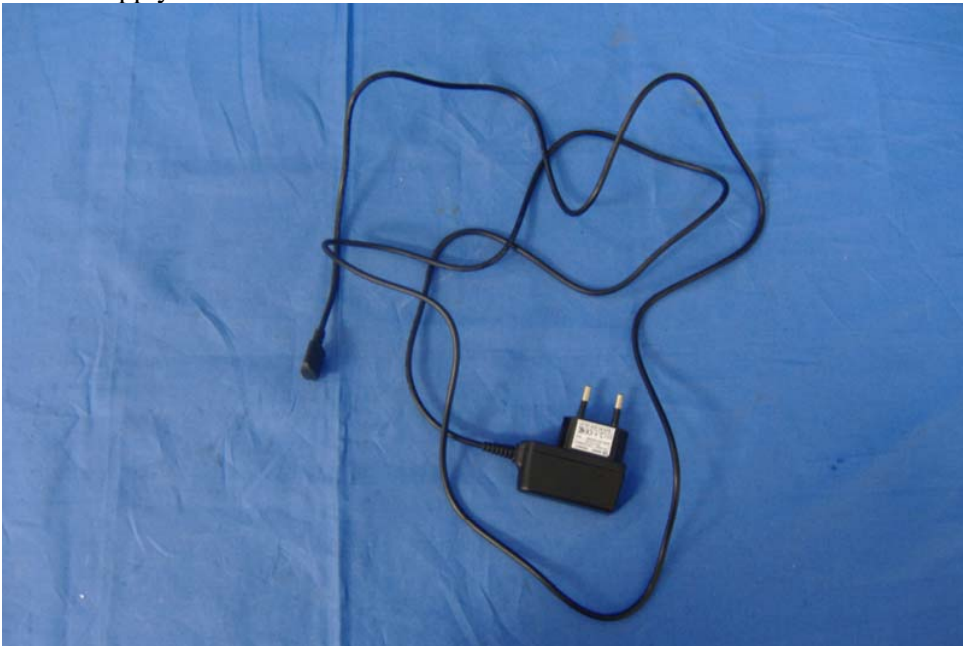
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Power Supply3:



Power Supply4:



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Power Supply5:



Power Supply6:



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Power Supply7:



Power Supply8:



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Power Supply9:



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