

REV	Δ	DESCRIPTION	SHEET EFFECTED	DATE	DRAWN	CHECKED
A				12.06.2012	M. Reuben	S. Cohen
B		Substitution of ERP measurements for Spurious Emissions	11,16	.10.06.2012	M. Reuben	S. Cohen

EMC Laboratory

WipAir X000-4.9 GHz

Part 2

**Manufactured by
WaveIP LTD.**

FCC ID: QQ2-WA6049

EMC Test Report

**According to FCC CFR 47 Part 90 subpart Y
and
RSS-111 Issue 3**

	Fonction/Title	Name	Signature	Date
Prepared by:	Technical Writer	M. Reuben		12.02 2012
Checked by:	Test Engineer	I. Arbitman		20.03.2012
Approved By:	EMC Lab. Manager	S. Cohen		23.04 2012

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1. ADMINISTRATIVE DATA

1.1. Scope

This document describes the measurement procedures and tests for Radiated and conducted emission testing of the WipAir-X000 4.9 GHz manufactured by WaveIP Ltd.

2. GENERAL INFORMATION

2.1. Description of equipment Under Test

Equipment Under Test	WipAir X 000-4.9 GHz
FCCID	QQ2-WA6049
Manufacturer	WaveIP Ltd.
Serial Numbers	0050C2AC7CAC
Mode of Operation	Tranceiver MODE
Receiver operating frequency	4949 MHz – 4990 MHz
Year of Manufacture	2012

2.2. Applicant Information:

Applicant	WaveIP Ltd
Applicant Address	Teradion Industrial park, Misgav 20179, Israel
Telephone	+972-4-9027000
FAX	+972-4-9990324
The testing was observed by	AMIT ARAZI

2.3. Test Performance:

Dates of testing	February 2012
Test Laboratory Location	Elbit Systems Land and C ⁴ I Ltd., EMC LAB, Hashoftim 26 Holon 58102 ISRAEL Tel: 972-3-5574476 Fax: 972-3-5575320
Applicable EMC Specification	Federal Communication Commission (FCC), FCC CFR Part 90 subpart Y and RSS-111 Issue 3

3. TEST SUMMARY AND SIGNATURES.

Elbit Systems Land and C⁴I Ltd., EMC Laboratory has completed testing of E.U.T in accordance with the requirements of the FCC sections 90.205, 90.1215, RSS-111 section 5.3.

The E.U.T was found to comply with the requirements of the FCC Part 15 Regulations given below

Test	Test Description	Section	Pass/Fail
1	Occupied bandwidth	FCC sections 90.209, RSS-Gen section 4.6.1	Pass
2	Maximum output power and Peak power spectral density	FCC sections 90.205, 90.1215, RSS-111 section 5.3, Part 15	Pass
3	Emission mask	FCC sections 90.210(m), RSS-111 section 5.4	Pass
4	Conducted spurious emissions	FCC sections 90.210, RSS-111 section 5.4	Pass
5	Receiver spurious emissions	RSS-111 section 5.5	Pass
6	Radiated spurious emissions	FCC sections 90.210, RSS-111 section 5.4	Pass

3.1. Test performed by:

I. Arbitman



3.2. Test Report prepared by:

M. Reuben



3.3. Test Report Approved by:

Mr. Samuel Cohen EMC Lab. Manager



4. E.U.T INFORMATION

4.1. E.U.T description

WipAir X 000-4.9 GHz is WaveIP's wireless point-to-point and point to multi point broadband wireless communication system. The system uses dual or single radio channels, (defined by software) in the 5GHz bands, utilizing 5, 10, 20 MHz channels, OFDM modulation, and TDD Spectrum Management.

The total conducted output power is up to 1Watt (sum of both channels), with dynamic range of ~ 45 dB.

WipAir-3000 uses single RF channel (SISO)

WipAir-6000 uses two RF ports (MIMO), hence WipAir-6000 was tested.

EUT Technical characteristics

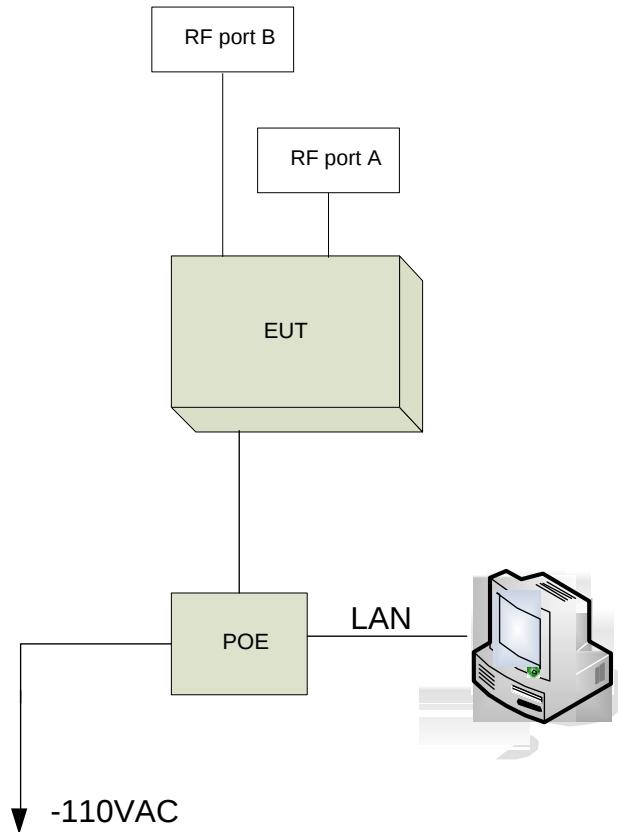
Transmitter characteristics		Notes
Assigned frequency	4940-4990MHZ	
Operating Frequency range	4942.5-4987.5MHZ	5MHz Channel
	4945-4985MHZ	10MHz Channel
	4950-4980MHZ	20MHz Channel
Antenna Ports	TNC	For detached option only
Modulations type	QPSK, 4QAM, 16QAM, 64QAM	
Multiplexing type	OFDM	
Modulating Test Signal	PRBS	

Antenna type

Antenna Type	Model	Gain 4.9 GHz (dBi)	Beam Width	Dimension
Flat panel	DP-5X-230D-010	22	10° x 10°	305*305*15
Dish	DP-5X-285D-005	27	5° X 5°	2ft

4.2. **E.U.T Test Configuration**

E.UT. test configuration is shown in figure below:



4.3. **E.U.T Mode of Operation description**

4940 MHz – 4990 MHz TRANCEIVER

5. RADIATED EMISSION

Equipment Under Test	WipAir X 000-4.9 GHz
Test Method	FCC section 90.210, RSS-111 section 5.4
Date	19.03.2012 & 08.07.2012
Relative Humidity	40%
Ambient Temperature	25 ⁰ C
Air Pressure	1010 hPa
Test Setup	Figure 1

Testing Engineer: I. Arbitman



Date 19.03.2012& 08.07.2012

5.1. Test Results Summary & Conclusions

The E.U.T was found in compliance with 90.210 for Radiated Emission requirements.

No spurious or harmonic emissions found 6dBs below limits.

5.2. Limits of Radiated Interference Field Strength according 90.210

The test unit shall meet the limits of Table 38.

Table 1: Limits For 90.210

Frequency MHz	Attenuation below Carrier dBc	ERP of Spurious, dBm*	Equivalent Field Strength Limit @ 3m dB (μV/m)**
0.009 - 40000	55+10logP	-25	70.23

ERP Spurious = P (dBm) –[55 + 10log P (W)] = -25 dBm,

*: Excluding the band emission within ± 150 % of the authorized bandwidth from the carrier

**: Equivalent field strength limit was calculated from the maximum allowed ERP of spurious as follows:

$E = \sqrt{30 \cdot P \cdot 1.64} / r$, where P is ERP in Watts; 1.64 is the numeric gain of ideal dipole and r is antenna to EUT distance in meters.

5.3. Test Instrumentation and Equipment

Table 2: Test Instrumentation and Equipment

Item	Model	Manufacturer	Next Date Calibration
Spectrum Analyzer	E7405A	Agilent	11.05.2012
Broadband Antenna	BTA-L	FRANKONIA	28.07.2012
Loop Antenna	HFH2-Z2	R&S	26.04.2012
Double Ridge Guide Antenna(1-18GHz)	DRG-118/A	ARA	09.12.2012
Double Ridge Guide Antenna(18-40GHz)	DRG-1840/A	ARA	09.12.2012
Low Noise Amplifier (0-1GHz)	AM-1300-N	MITEQ	14.06.2012
Low Noise Amplifier (1-2GHz)	AMM003N	Avantek	14.06.2012
Low Noise Amplifier (2-18GHz)	PE 2	Planar	04.08.2012
Low Noise Amplifier (18-26GHz)	PTB-33-18G-26G	Planar	12.06.2012
Low Noise Amplifier (26-40GHz)	SLKa-35-4	Spacek	05.07.2012
Preselected RF section 26.5-40GHz	11974A	HP	27.05.2012
Preselect or Power supply	11974-60028	HP	27.05.2012

5.4. Test Procedure

As per 47 CFR, Sections 2.1053 and 90.210 (m); TIA/EIA-603-C, section 2.2.12
Preliminary Test Procedure

- 5.4.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground in a shielded chamber
- 5.4.2. The E.U.T was set 3 meters away from the receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 5.4.3. The Antenna height varied from one meter to 1.8 meters above the ground and the table was rotated 360° to determine the maximum value of the field strength
- 5.4.4. The antenna was set both horizontal and vertical polarization.

Final Test Procedure

- 5.4.5. The EUT was tested at open area for each emission,
- 5.4.6. The test procedure was performed as before but the Antenna height varied from one meter to four meters above the ground

5.5. Final Test Setup

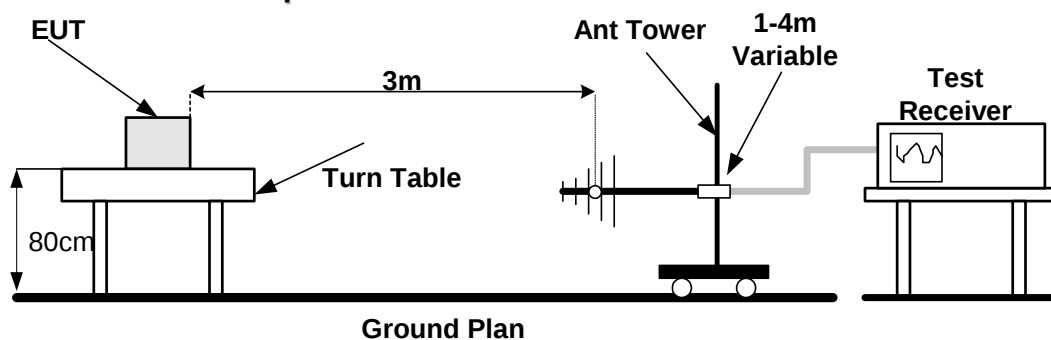


Figure 4: Radiated Emission Test Configuration

5.6. The test procedure for Substitution of ERP measurements for Spurious Emissions

- 5.6.1. The test setup was set to on.
- 5.6.2. The RF signal generator was set to the frequency under investigation for spurious emissions and the RF output was adjusted to the field strength as was measured from the EUT.
- 5.6.3. The test antenna height was swept from 1 to 4 m to find the maximum emission from substitution antenna and RF signal generator output was adjusted to produce the field strength as was measured from the EUT.
- 5.6.4. The above procedure was performed for vertical and horizontal polarizations of the substitution antenna
- 5.6.5. The ERP of spurious emissions was calculated as a sum of signal generator output power in dBm and antenna gain in dBd reduced by cable loss in dB.
- 5.6.6. This procedure was repeated for all the rest of the invested frequencies.
- 5.6.7. The test results are shown in Table 24

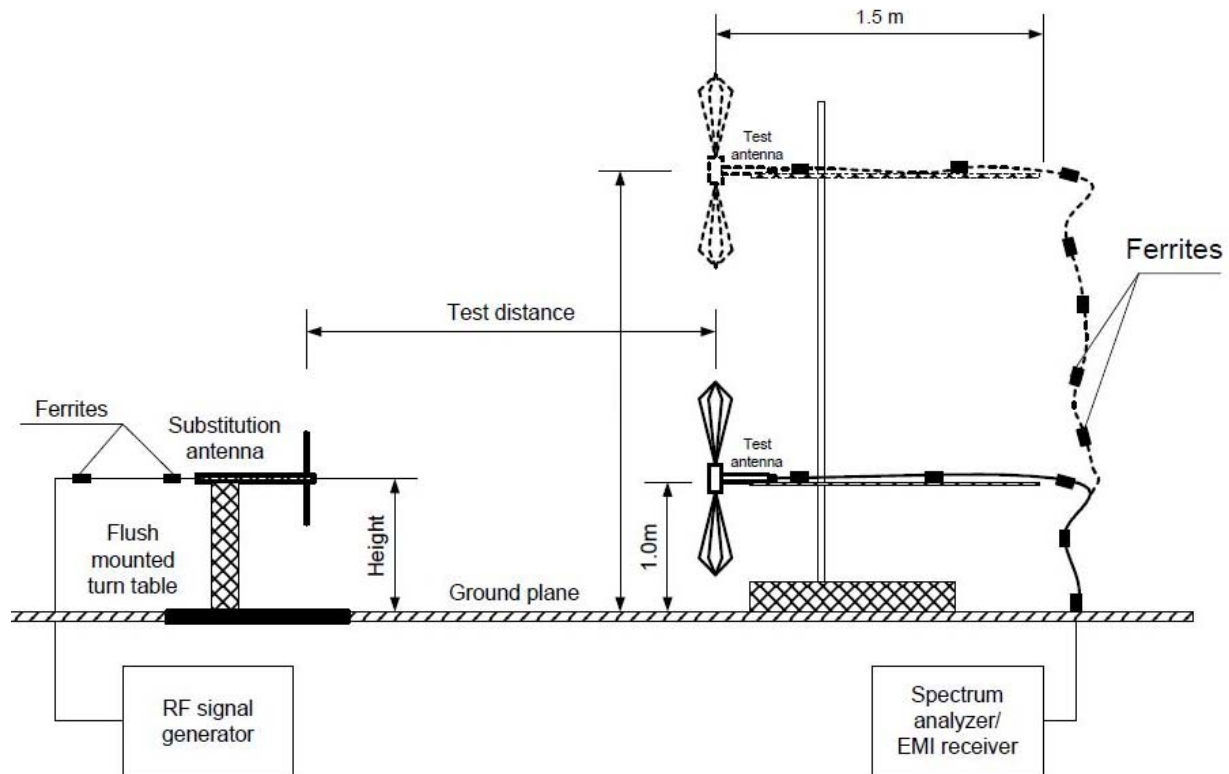


Figure 5: Substitution of ERP measurements for Spurious Emissions Test Setup

5.7. Test Results

5.7.1. 9 kHz – 150 kHz

Table 3: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Vertical	0.2	1	Pass
	Horizontal		2	Pass
Middle - 4963	Vertical		3	Pass
	Horizontal		4	Pass
High - 4987	Vertical		5	Pass
	Horizontal		6	Pass

- 50 Ohm termination for both RF ports

Table 4: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Vertical	0.2	7	Pass
	Horizontal		8	Pass
Middle - 4963	Vertical		9	Pass
	Horizontal		10	Pass
High - 4985	Vertical		11	Pass
	Horizontal		12	Pass

- 50 Ohm termination for both RF ports

Table 5: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Vertical	0.2	13	Pass
	Horizontal		14	Pass
Middle - 4963	Vertical		15	Pass
	Horizontal		16	Pass
High - 4980	Vertical		17	Pass
	Horizontal		18	Pass

- 50 Ohm termination for both RF ports

5.7.2. 150 kHz-30 MHz

Table 6: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Vertical	9	19	Pass
	Horizontal		20	Pass
Middle - 4963	Vertical		21	Pass
	Horizontal		22	Pass
High - 4987	Vertical		23	Pass
	Horizontal		24	Pass

- 50 Ohm termination for both RF ports

Table 7: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Vertical	9	25	Pass
	Horizontal		26	Pass
Middle - 4963	Vertical		27	Pass
	Horizontal		28	Pass
High - 4985	Vertical		29	Pass
	Horizontal		30	Pass

- 50 Ohm termination for both RF ports

Table 8: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Vertical	9	31	Pass
	Horizontal		32	Pass
Middle - 4963	Vertical		33	Pass
	Horizontal		34	Pass
High - 4980	Vertical		35	Pass
	Horizontal		36	Pass

- 50 Ohm termination for both RF ports

5.7.3. 30 MHz-1 GHz

Table 9: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Horizontal & Vertical	120	37	Pass
Middle - 4963			38	Pass
High - 4987			39	Pass

- 50 Ohm termination for both RF ports

Table 10: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Horizontal & Vertical	120	40	Pass
Middle - 4963			41	Pass
High - 4985			42	Pass

- 50 Ohm termination for both RF ports

Table 11: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Horizontal & Vertical	120	43	Pass
Middle - 4963			44	Pass
High - 4980			45	Pass

- 50 Ohm termination for both RF ports

5.7.4. 1-2.9 GHz

Table 12: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Horizontal & Vertical	1000	46	Pass
Middle - 4963			47	Pass
High - 4987			48	Pass

- 50 Ohm termination for both RF ports

Table 13: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Horizontal & Vertical	1000	49	Pass
Middle - 4963			50	Pass
High - 4985			51	Pass

- 50 Ohm termination for both RF ports

Table 14: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Horizontal & Vertical	1000	52	Pass
Middle - 4963			53	Pass
High - 4980			54	Pass

- 50 Ohm termination for both RF ports

5.7.5. 2.9-18 GHz

Table 15: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Horizontal & Vertical	1000	55	Pass
Middle - 4963			56	Pass
High - 4987			57	Pass

- 50 Ohm termination for both RF ports

Table 16: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Horizontal & Vertical	1000	58	Pass
Middle - 4963			59	Pass
High - 4985			60	Pass

- 50 Ohm termination for both RF ports

Table 17: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Horizontal & Vertical	1000	61	Pass
Middle - 4963			62	Pass
High - 4980			63	Pass

- 50 Ohm termination for both RF ports

5.7.6. 18 - 26.5 GHz

Table 18: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Horizontal & Vertical	1000	64	Pass
Middle - 4963			65	Pass
High - 4987			66	Pass

- 50 Ohm termination for both RF ports

Table 19: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Horizontal & Vertical	1000	67	Pass
Middle - 4963			68	Pass
High - 4985			69	Pass

- 50 Ohm termination for both RF ports

Table 20: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Horizontal & Vertical	1000	70	Pass
Middle - 4963			71	Pass
High - 4980			72	Pass

- 50 Ohm termination for both RF ports

5.7.7. 26.5 – 40 GHz

Table 21: 5 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4943	Horizontal & Vertical	1000	73	Pass
Middle - 4963			74	Pass
High - 4987			75	Pass

- 50 Ohm termination for both RF ports

Table 22: 10 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4945	Horizontal & Vertical	1000	76	Pass
Middle - 4963			77	Pass
High - 4985			78	Pass

- 50 Ohm termination for both RF ports

Table 23: 20 MHz Bandwidth Test Result

Frequency (MHz)	Polarization	Res. BW (kHz)	Plot No.	PASS/FAIL
Low - 4950	Horizontal & Vertical	1000	79	Pass
Middle - 4963			80	Pass
High - 4980			81	Pass

- 50 Ohm termination for both RF ports

Table 24: Test Results of Substitution of ERP measurements for Spurious Emissions

EBW	Carrier Freq.	Measured Frequency	Measured Level, db/ μ Vm	Signal Generator Power dBm	Subst. Antenna Gain	Cable loss [dB]	ERP, dBm	Limit dBm	Margin	Pass/Fail
5MHz	4943	4940	51.27	-49.3	11.4	5.2	-43.1	-25.0	-18.1	P
		4990	40.83	-60	11.4	5.2	-53.8	-25.0	-28.8	P
	4963	4940	41.04	-58.9	11.4	5.2	-52.7	-25.0	-27.7	P
		4990	40.05	-59.5	11.4	5.2	-53.3	-25.0	-28.3	P
	4987	4940	41.36	-59.2	11.4	5.2	-53	-25.0	-28.0	P
		4990	49.28	-47.5	11.4	5.2	-41.3	-25.0	-16.3	P
10MHz	4945	4940	46.47	-51.7	11.4	5.2	-45.5	-25.0	-20.5	P
		4990	42.79	-59.6	11.4	5.2	-53.4	-25.0	-28.4	P
	4963	4940	40.71	-59.9	11.4	5.2	-53.7	-25.0	-28.7	P
		4990	39.05	-58.6	11.4	5.2	-52.4	-25.0	-27.4	P
	4985	4940	49.05	-47.3	11.4	5.2	-41.1	-25.0	-16.1	P
		4990	39.67	-58.1	11.4	5.2	-51.9	-25.0	-26.9	P
20MHz	4945	4940	49.45	-47.3	11.4	5.2	-41.1	-25.0	-16.1	P
		4990	42.34	-59.3	11.4	5.2	-53.1	-25.0	-28.1	P
	4963	4940	41.36	-58.6	11.4	5.2	-52.4	-25.0	-27.4	P
		4990	42.66	-59	11.4	5.2	-52.8	-25.0	-27.8	P
	4985	4940	42.17	-58.5	11.4	5.2	-52.3	-25.0	-27.3	P
		4990	46.18	-51.4	11.4	5.2	-45.2	-25.0	-20.2	P



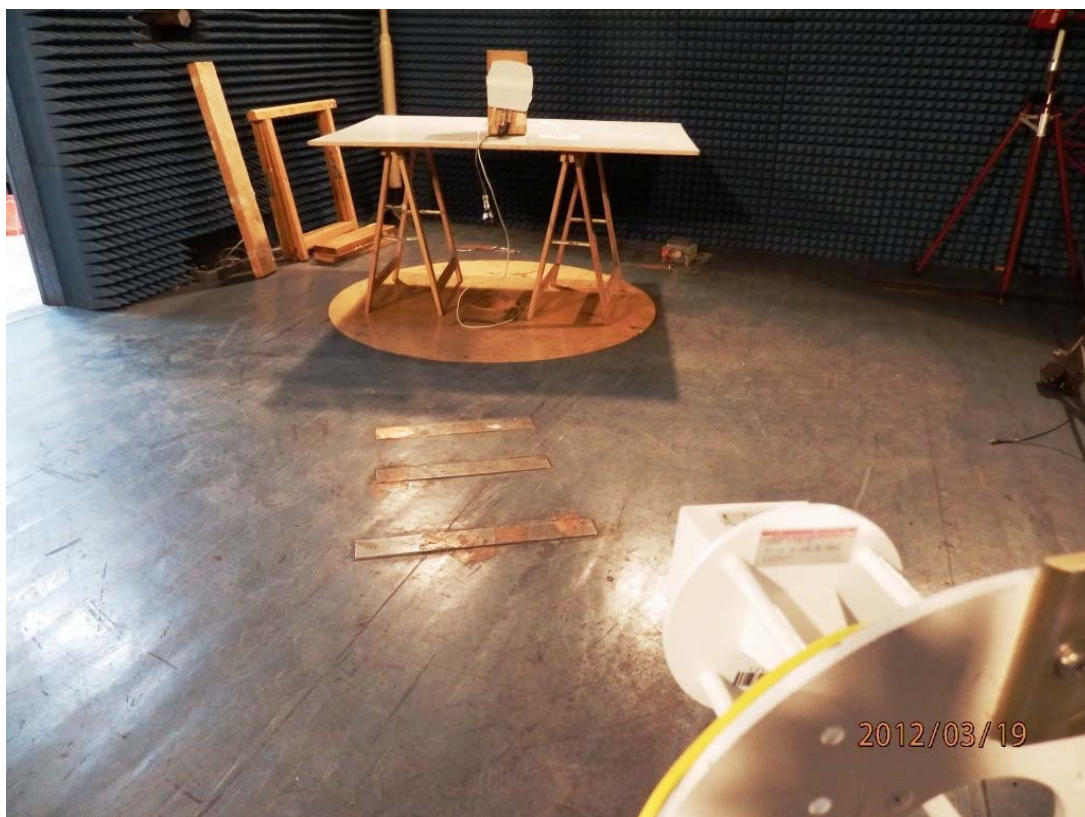
Photograph for Radiated Emission Test Setup/ 1



Photograph for Radiated Emission Test Setup/ 2



Photograph for Radiated Emission Test Setup/ 3



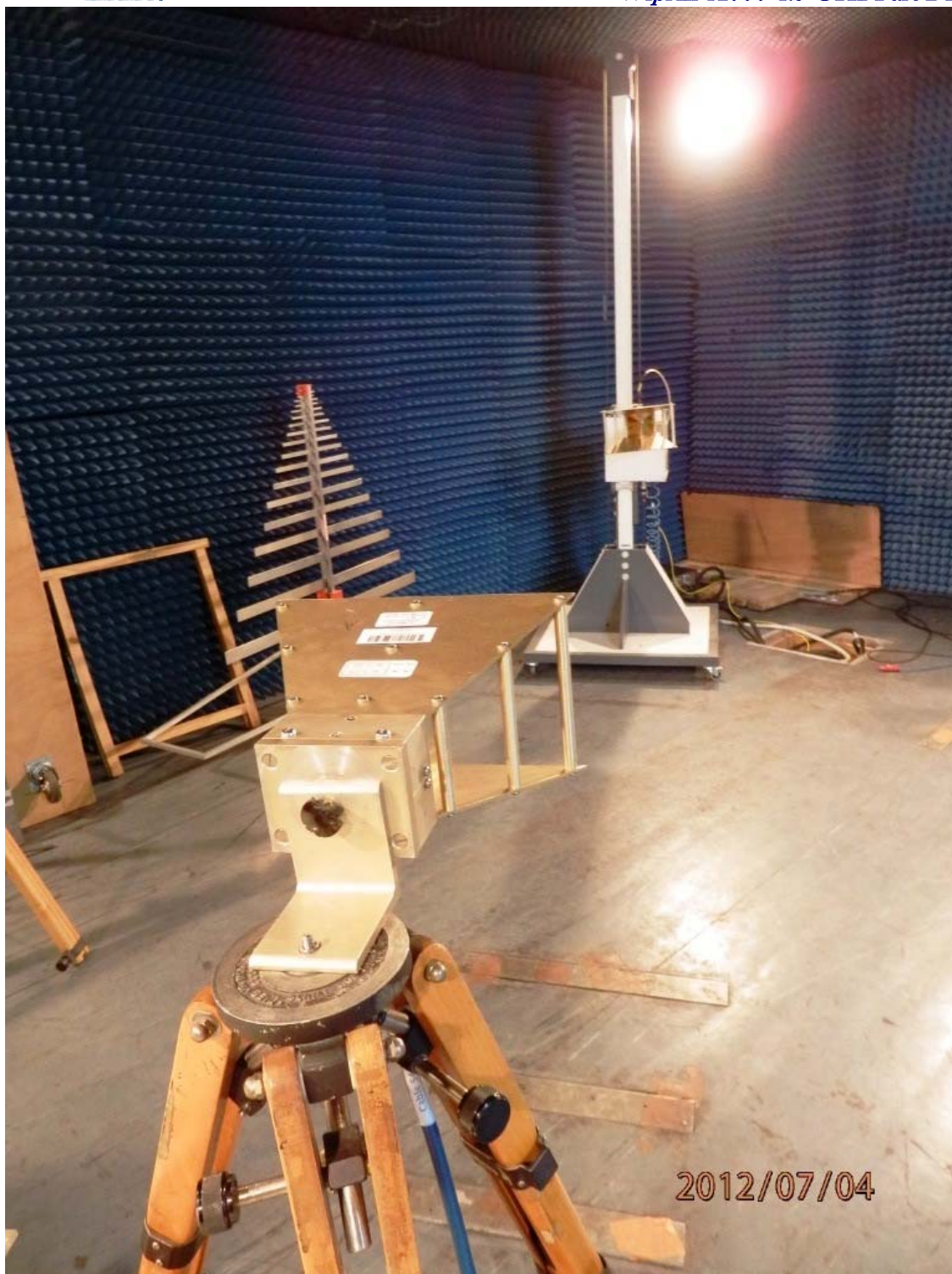
Photograph for Radiated Emission Test Setup/ 4



Photograph for Radiated Emission Test Setup/ 5



Photograph for Substitution of ERP/ 6



Photograph for Substitution of ERP/ 7

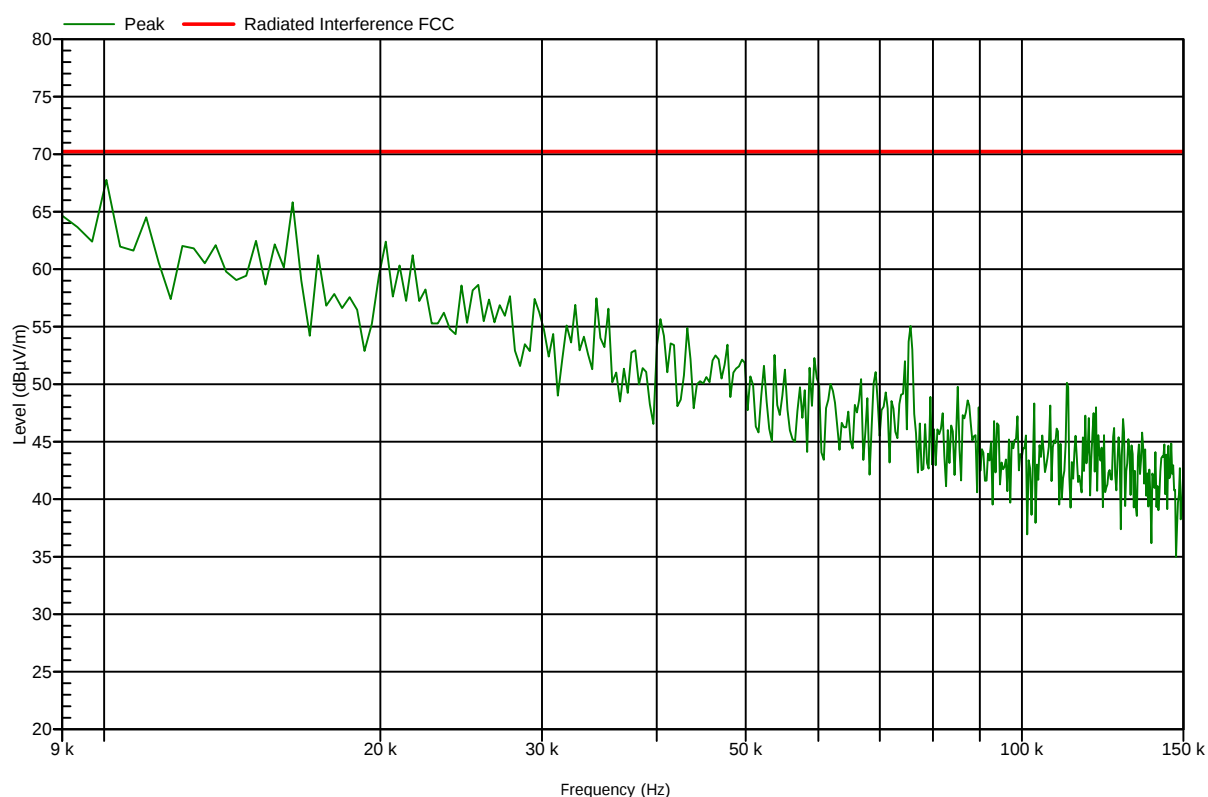
Test Results Plot No 1

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 5 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	64.7	70.2		0	1	H
2	0.01	67.8	70.2		0	1	V
3	0.011	64.5	70.2		0	1	H
4	0.016	65.8	70.2		0	1	H

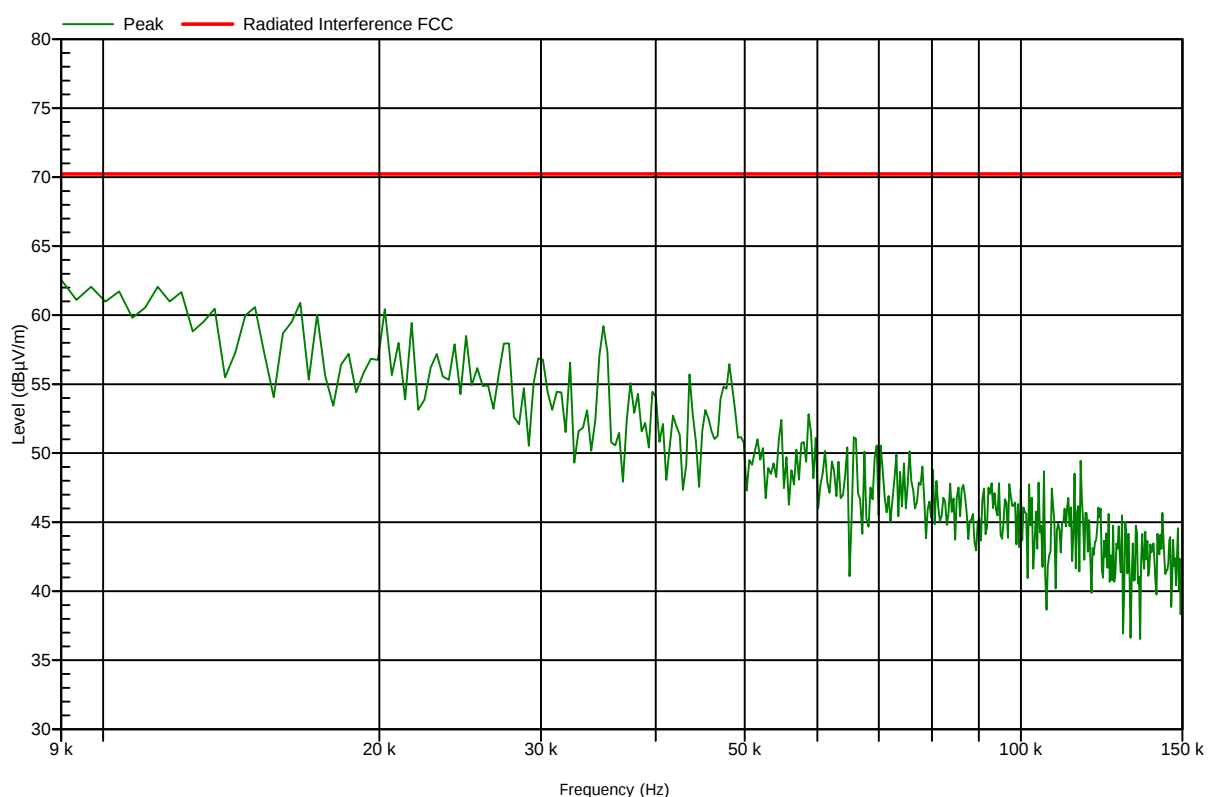
Test Results Plot No 2

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 5 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

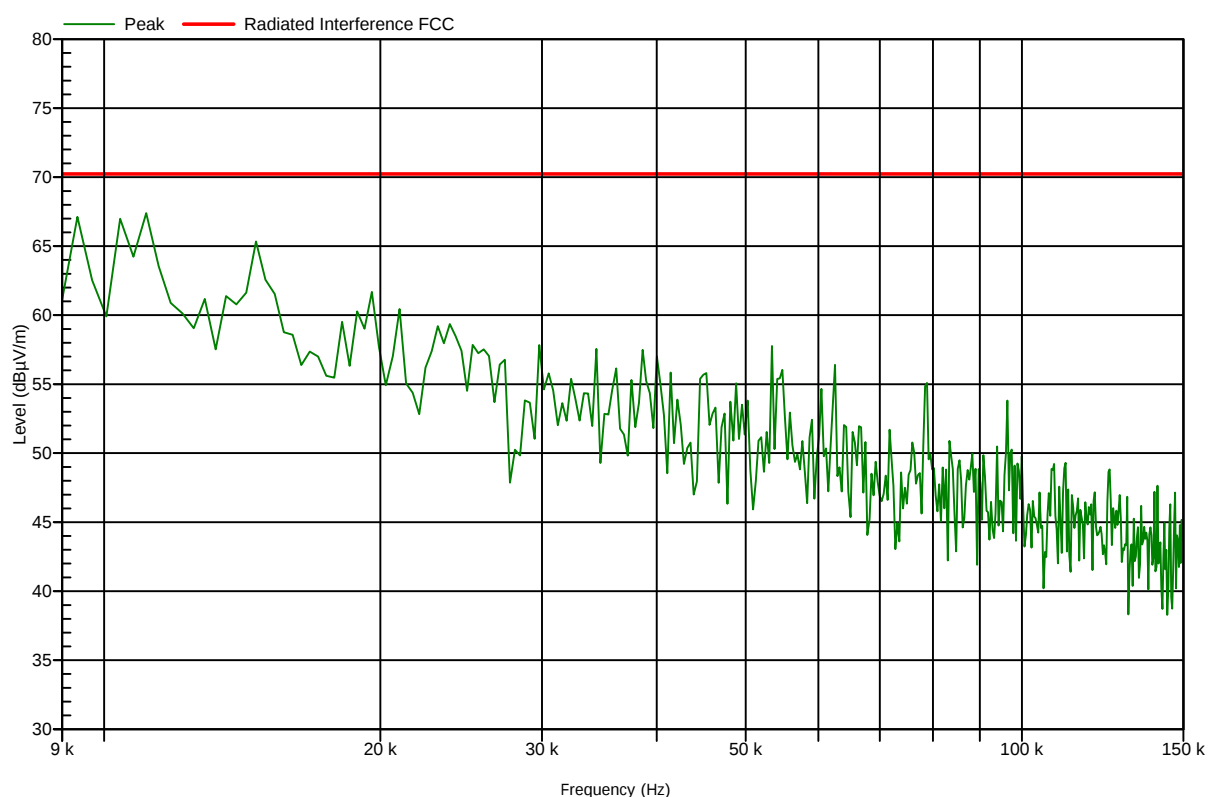
Test Results Plot No 3

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 5 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	67.1	70.2		0	1	H
2	0.01	67	70.2		0	1	H
3	0.011	67.4	70.2		0	1	H
4	0.015	65.3	70.2		0	1	H

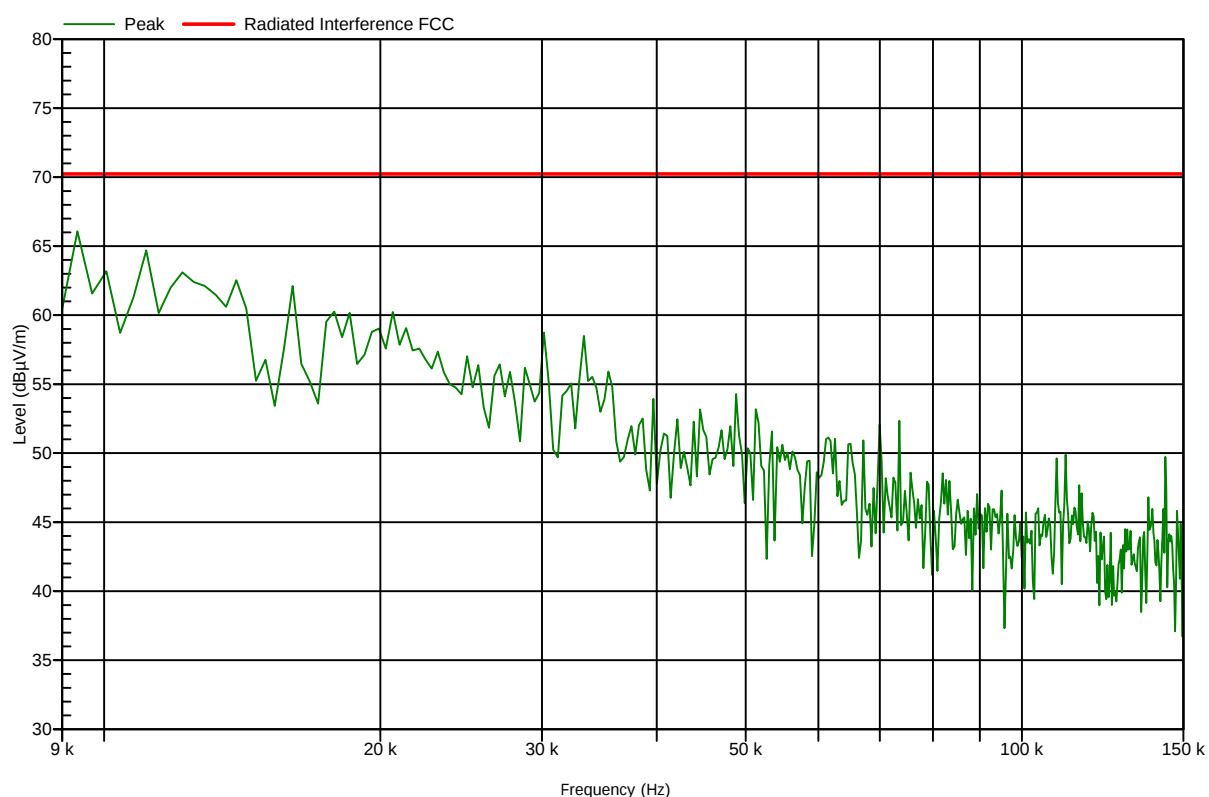
Test Results Plot No 4

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 5 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	66.1	70.2		0	1	V
2	0.011	64.7	70.2		0	1	V

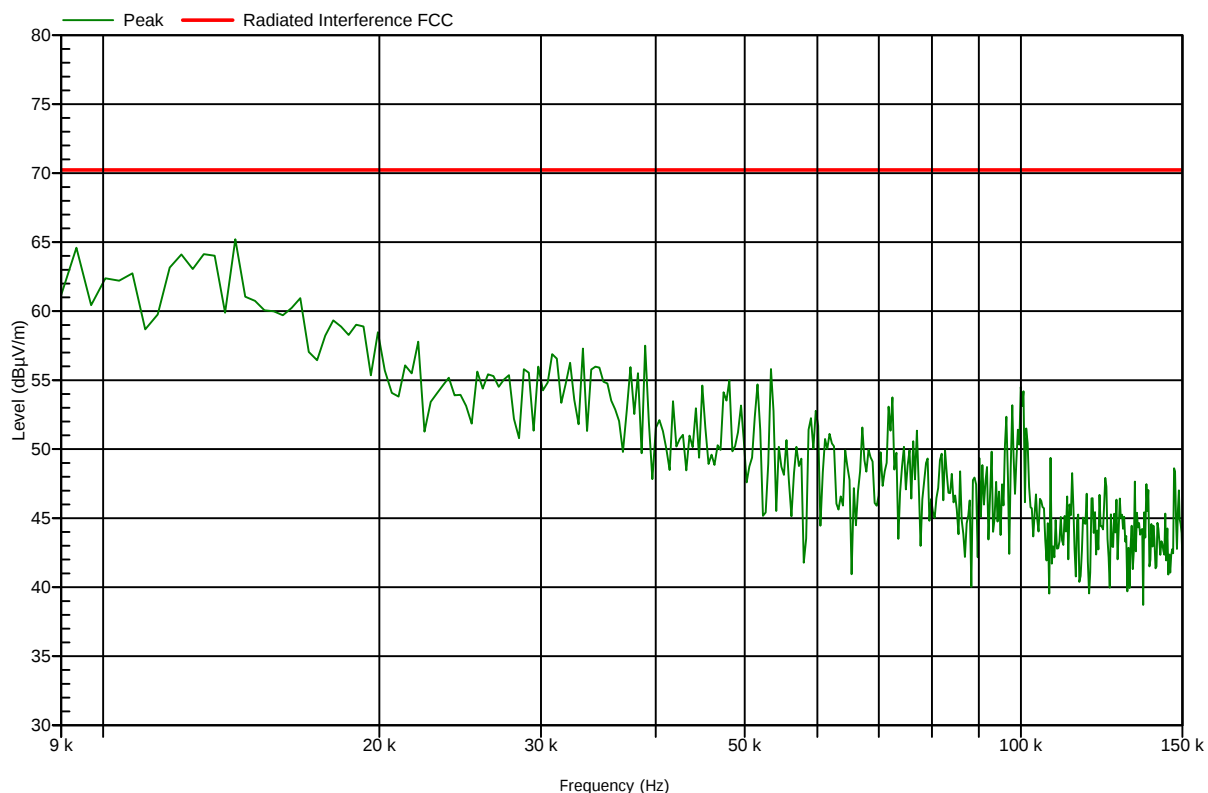
Test Results Plot No 5

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 5 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	64.6	70.2		0	1	V
2	0.014	65.2	70.2		0	1	H

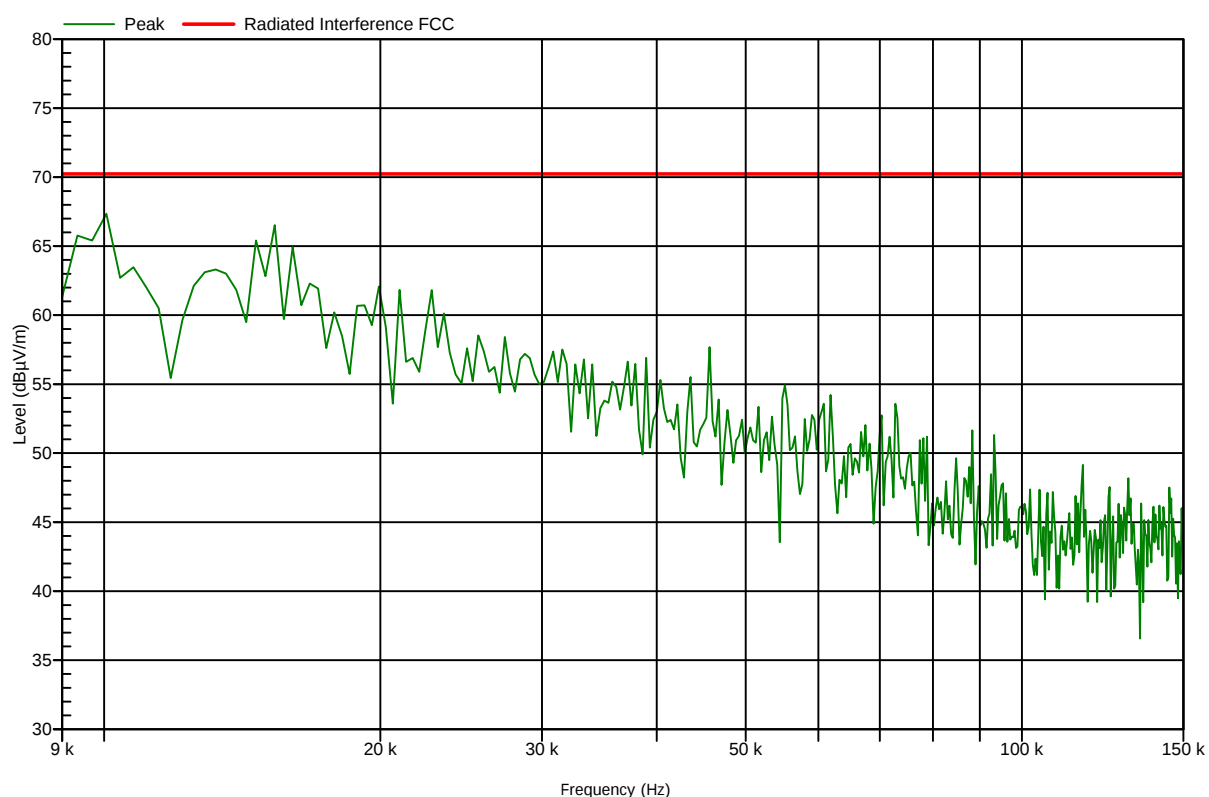
Test Results Plot No 6

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 5 MHz HIGH; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	65.8	70.2		0	1	H
2	0.01	67.3	70.2		0	1	V
3	0.015	65.4	70.2		0	1	V
4	0.015	66.5	70.2		0	1	V
5	0.016	64.9	70.2		0	1	V

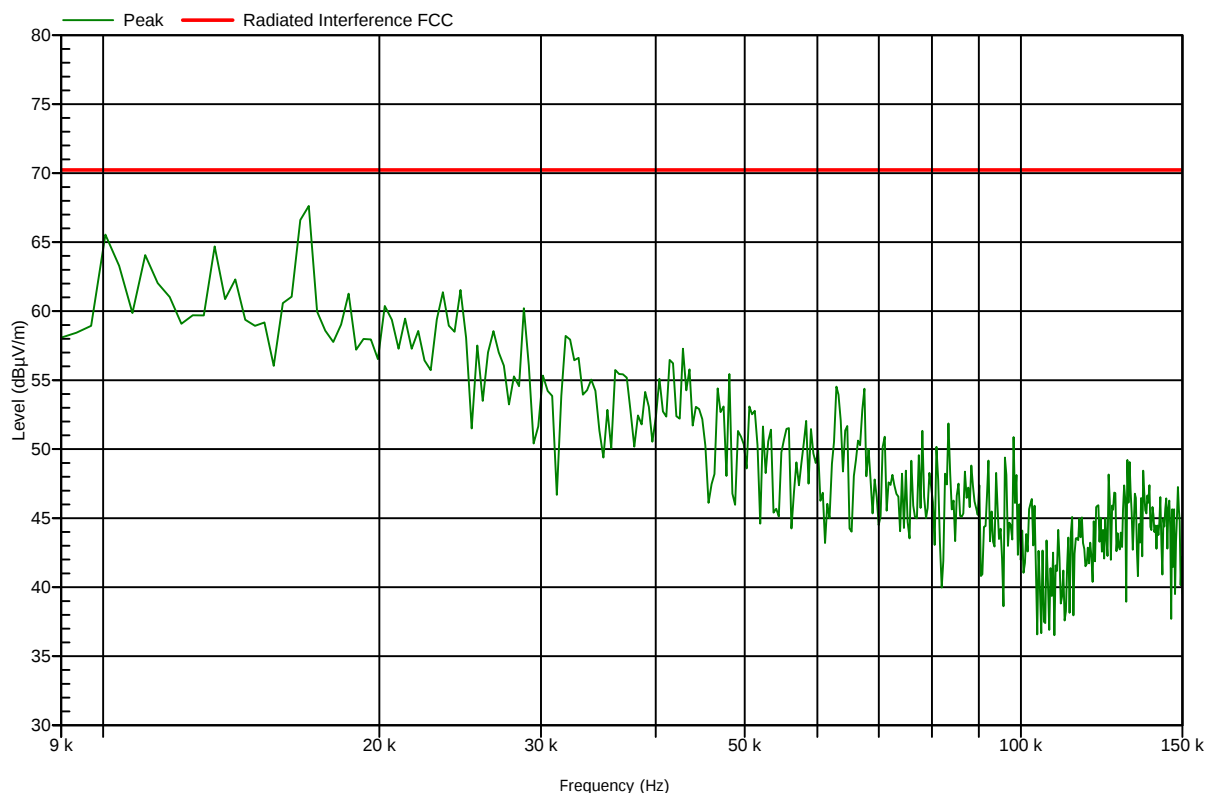
Test Results Plot No 7

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 10 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	65.5	70.2		0	1	V
2	0.013	64.7	70.2		0	1	V
3	0.017	67.6	70.2		0	1	V

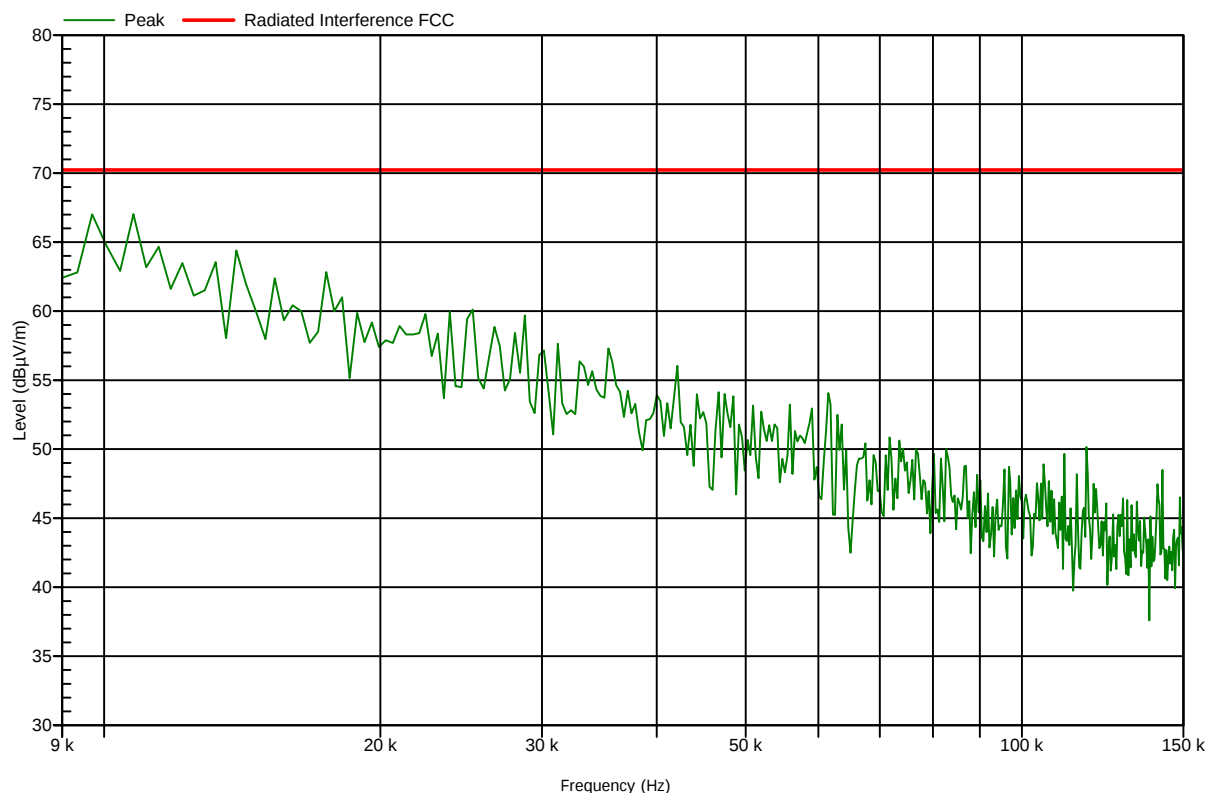
Test Results Plot No 8

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 10 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	67	70.2		0	1	H
2	0.01	64.8	70.2		0	1	V
3	0.011	67	70.2		0	1	H
4	0.011	64.7	70.2		0	1	V
5	0.014	64.4	70.2		0	1	V

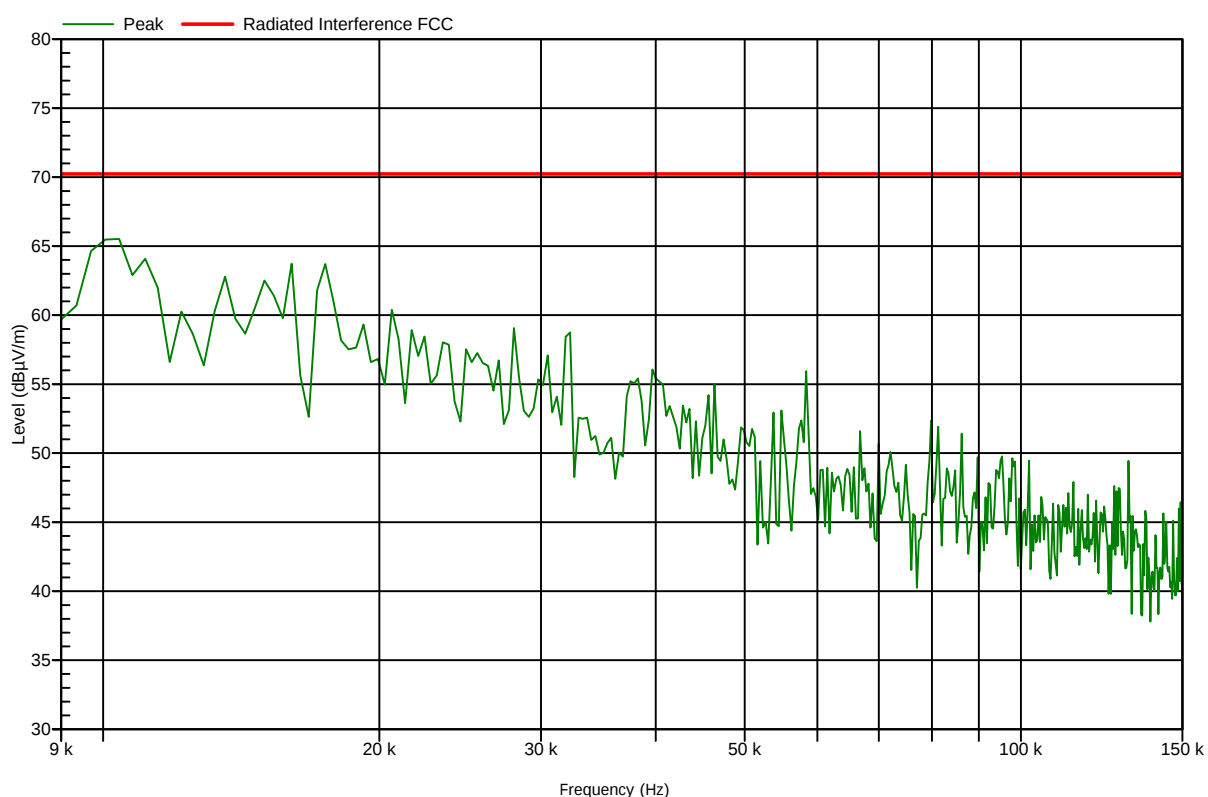
Test Results Plot No 9

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 10 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	65.5	70.2		0	1	V

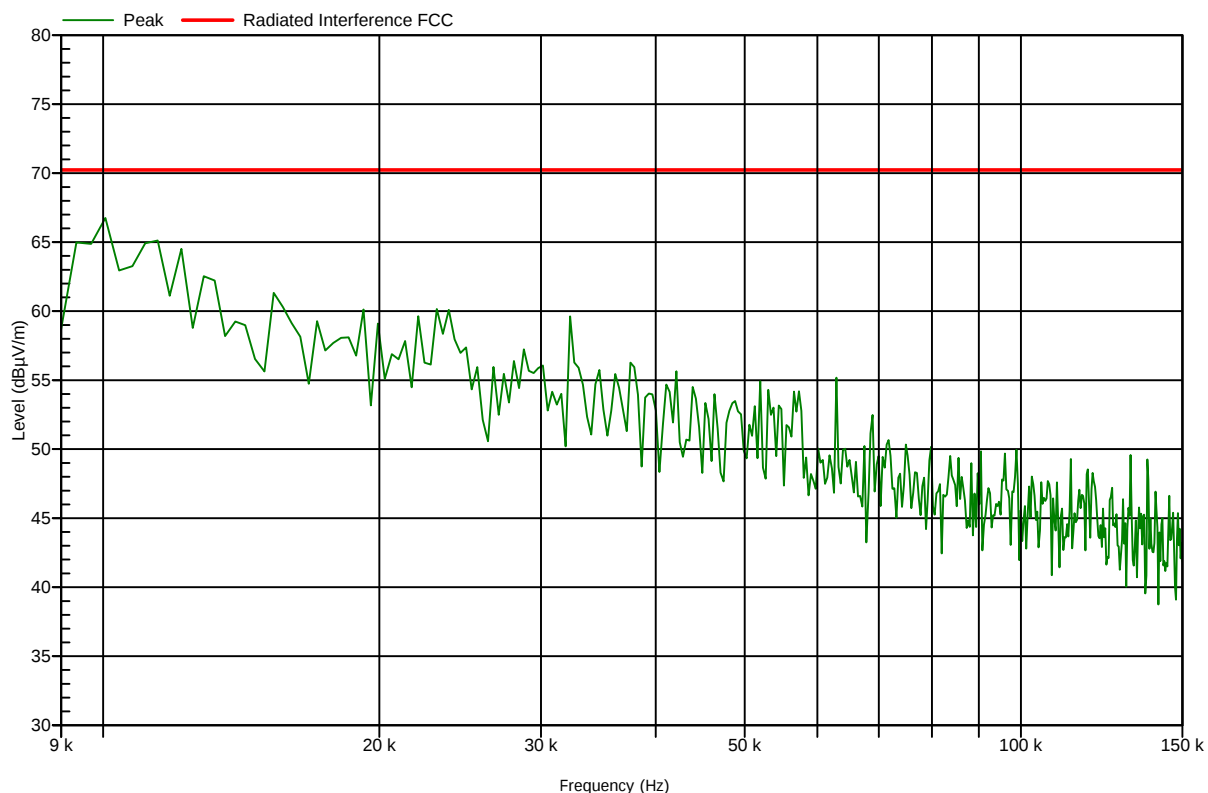
Test Results Plot No 10

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 10 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	65	70.2		0	1	V
2	0.01	66.8	70.2		0	1	H
3	0.011	65.1	70.2		0	1	H
4	0.012	64.5	70.2		0	1	H

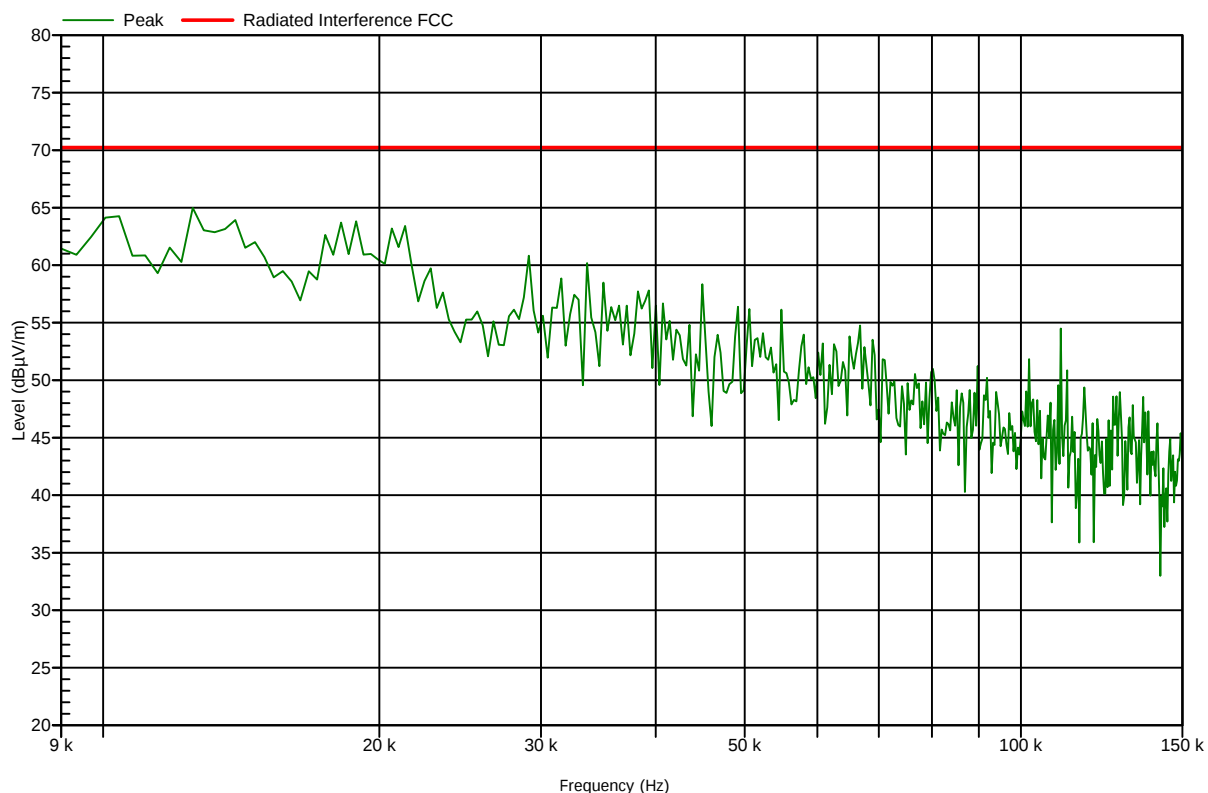
Test Results Plot No 11

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz VERTICAL- 10 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	64.3	70.2		0	1	V
2	0.013	65	70.2		0	1	V

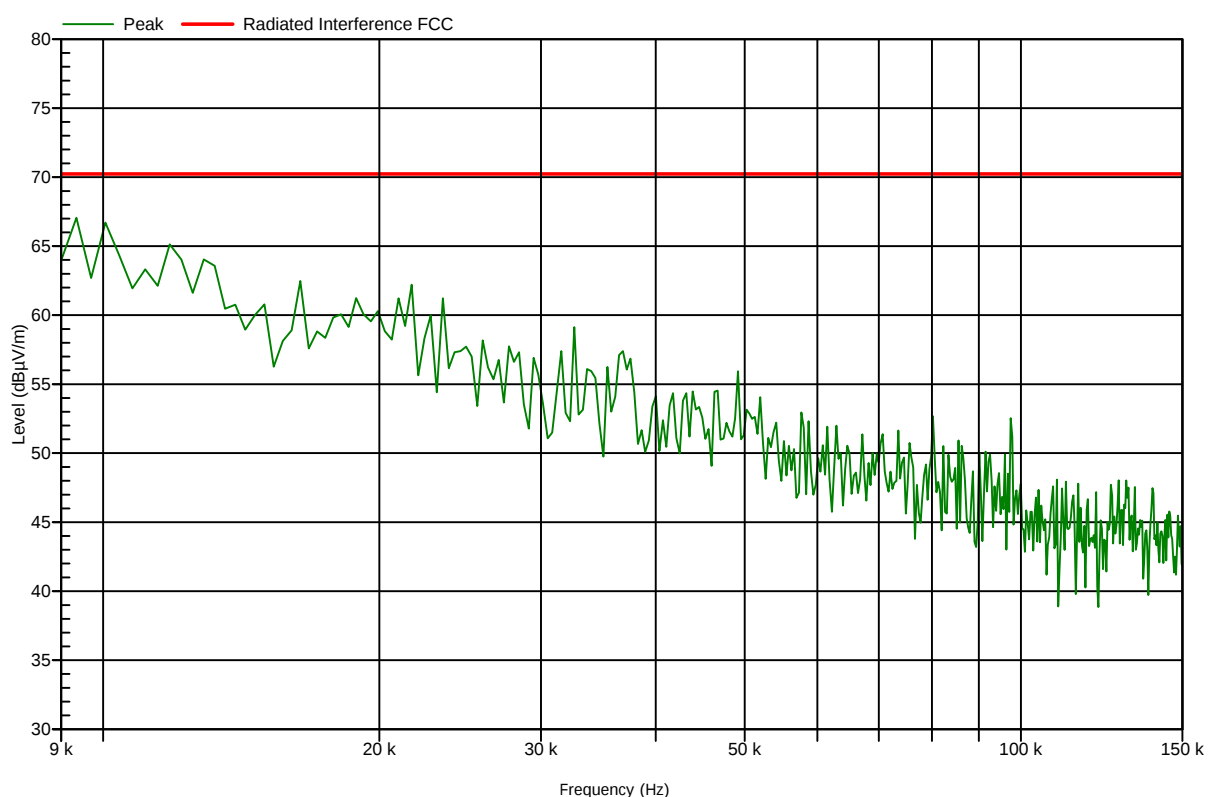
Test Results Plot No 12

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 10 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	67.1	70.2		0	1	V
2	0.01	66.7	70.2		0	1	H
3	0.012	65.1	70.2		0	1	V

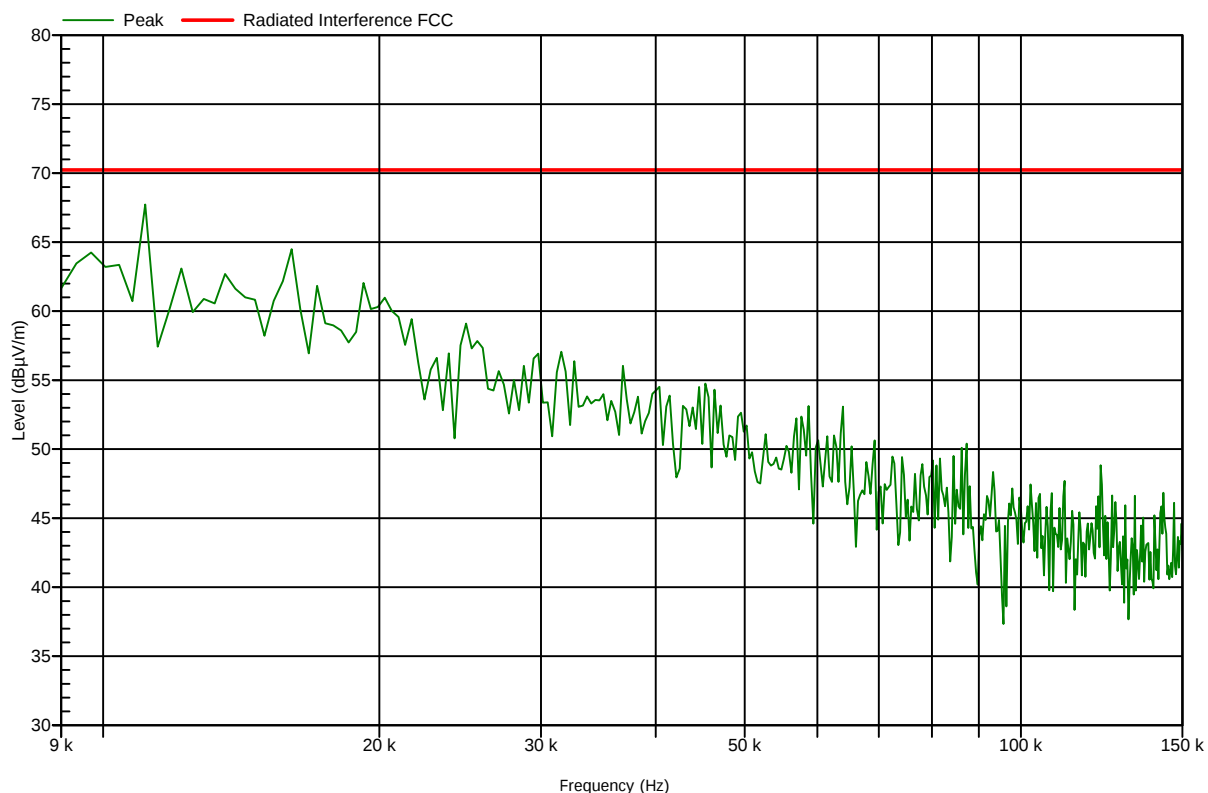
Test Results Plot No 13

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz vertical- 20 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	64.2	70.2		0	1	H
2	0.011	67.7	70.2		0	1	V
3	0.016	64.5	70.2		0	1	V

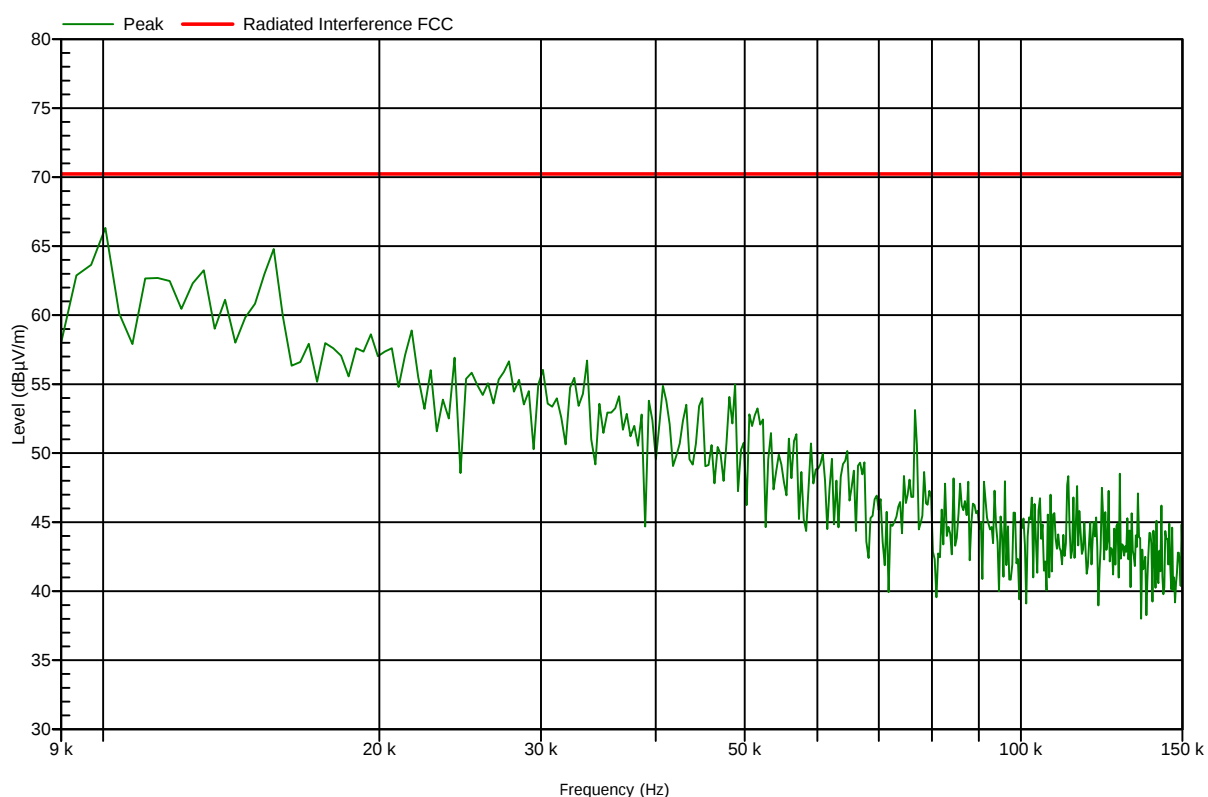
Test Results Plot No 14

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 20 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	66.3	70.2		0	1	V
2	0.015	64.8	70.2		0	1	H

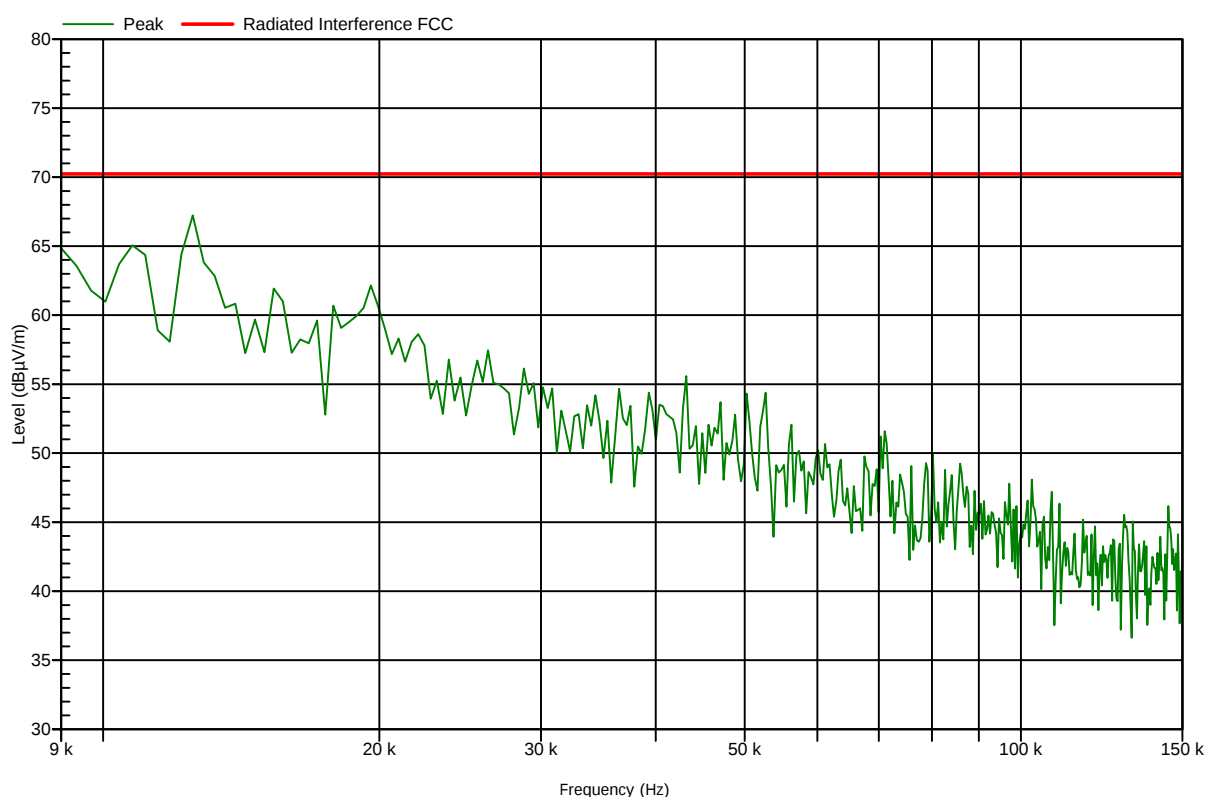
Test Results Plot No 15

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz vertical- 20 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	64.9	70.2		0	1	H
2	0.011	65.1	70.2		0	1	H
3	0.011	64.4	70.2		0	1	V
4	0.013	67.2	70.2		0	1	V

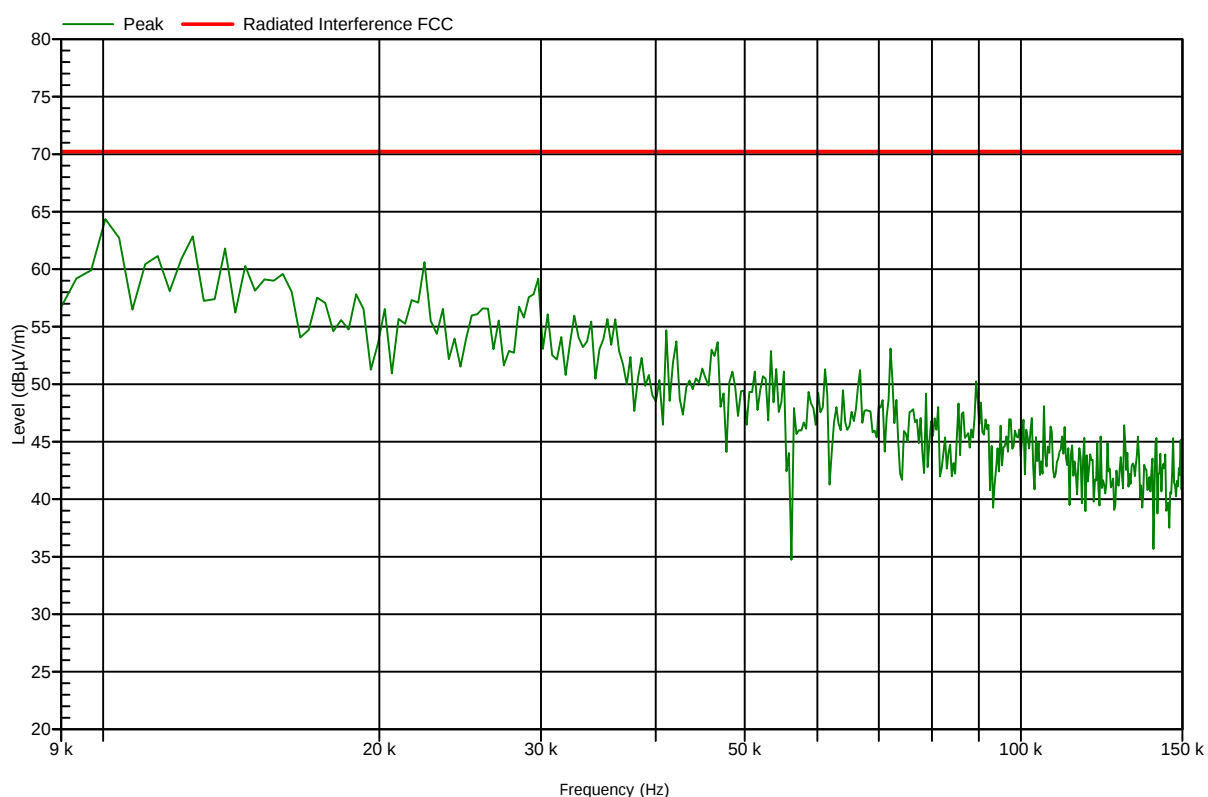
Test Results Plot No 16

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 20 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.01	64.4	70.2		0	1	V

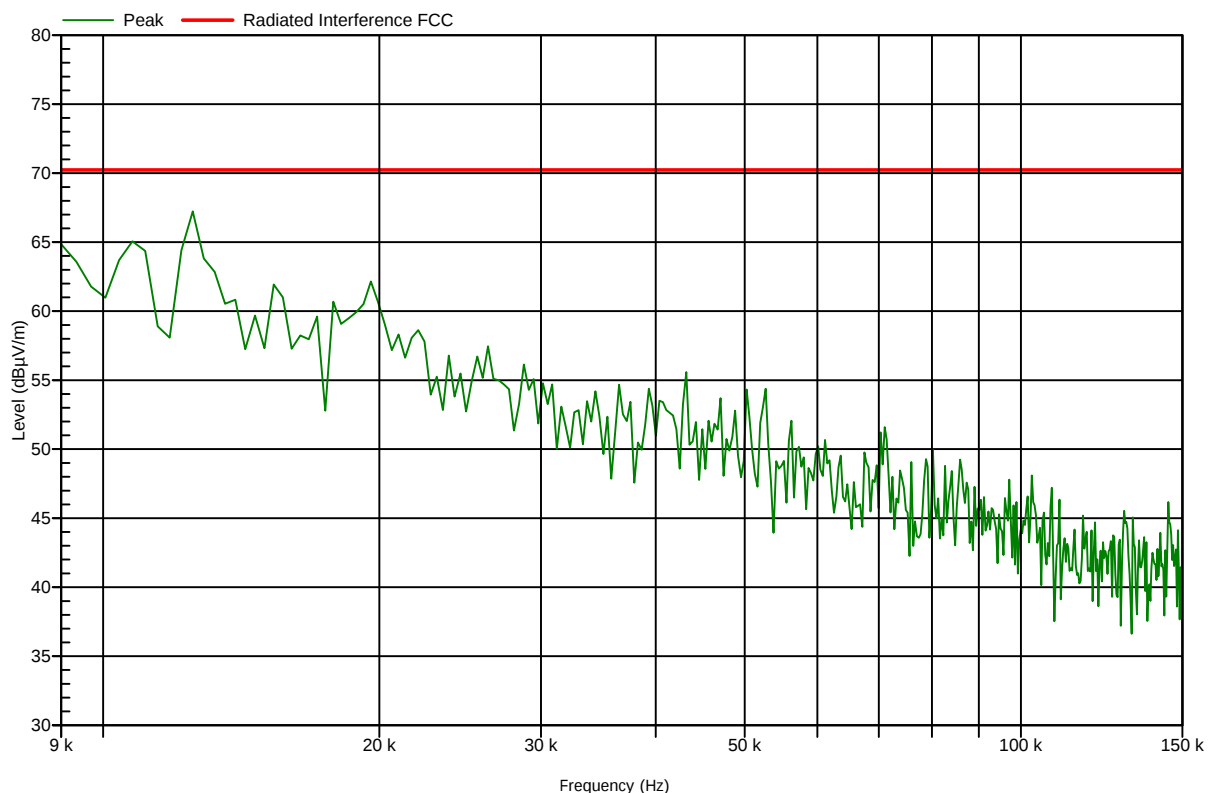
Test Results Plot No 17

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz vertical- 20 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	0.009	64.9	70.2		0	1	H
2	0.011	65.1	70.2		0	1	H

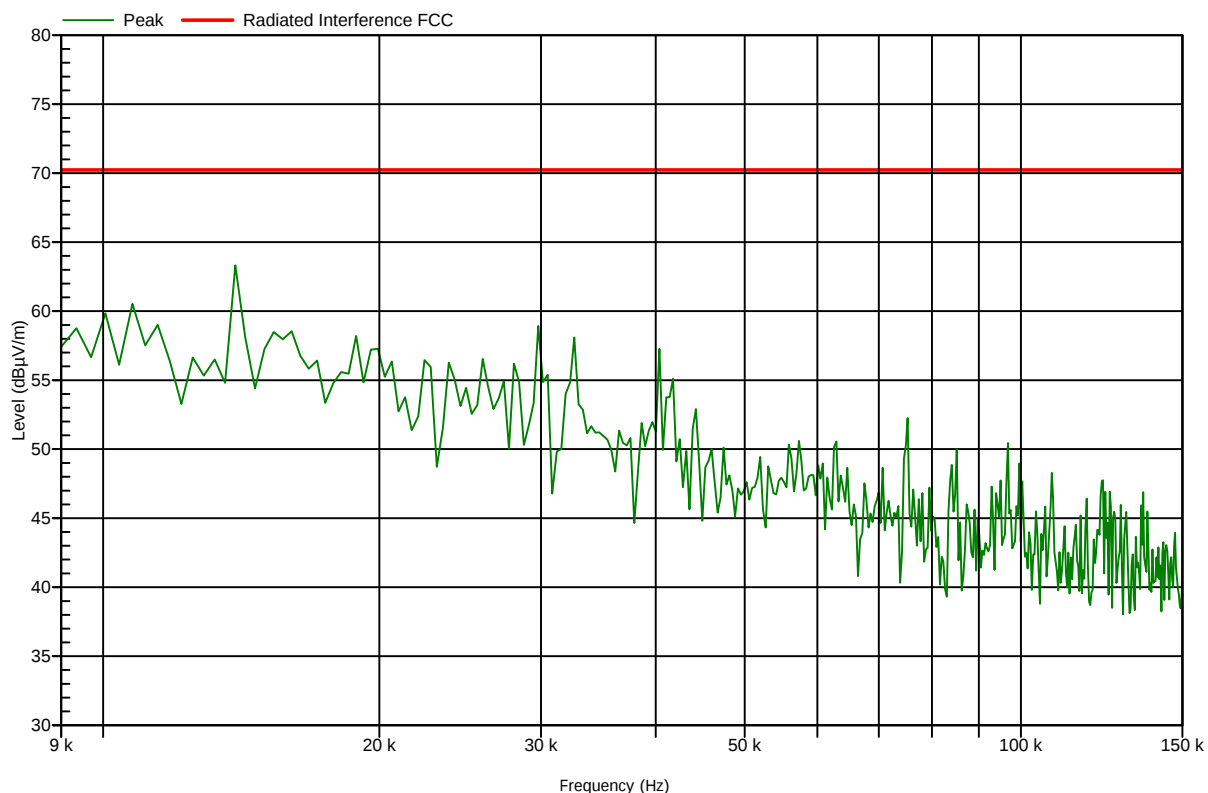
Test Results Plot No 18

9 kHz-150 kHz Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	200 Hz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [12.69 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

9-150 KHz HORIZONTAL- 20 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

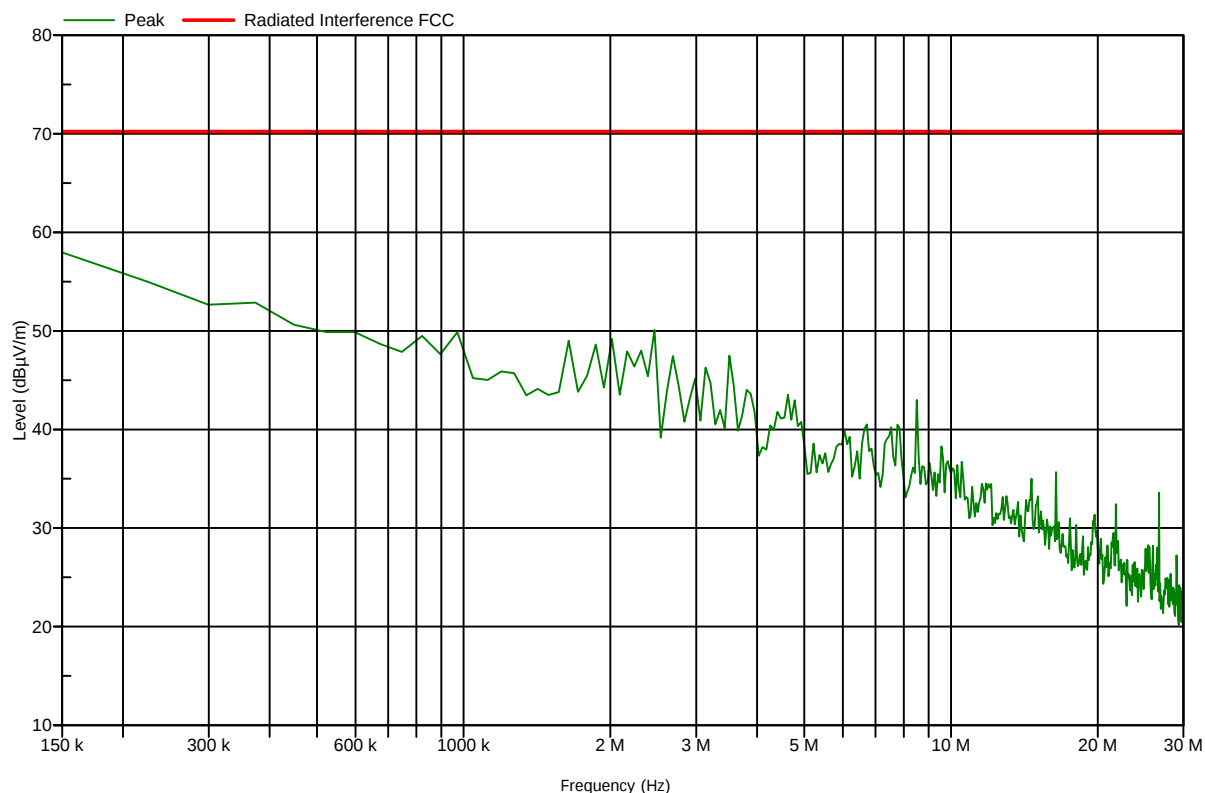
Test Results Plot No 19

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 5 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

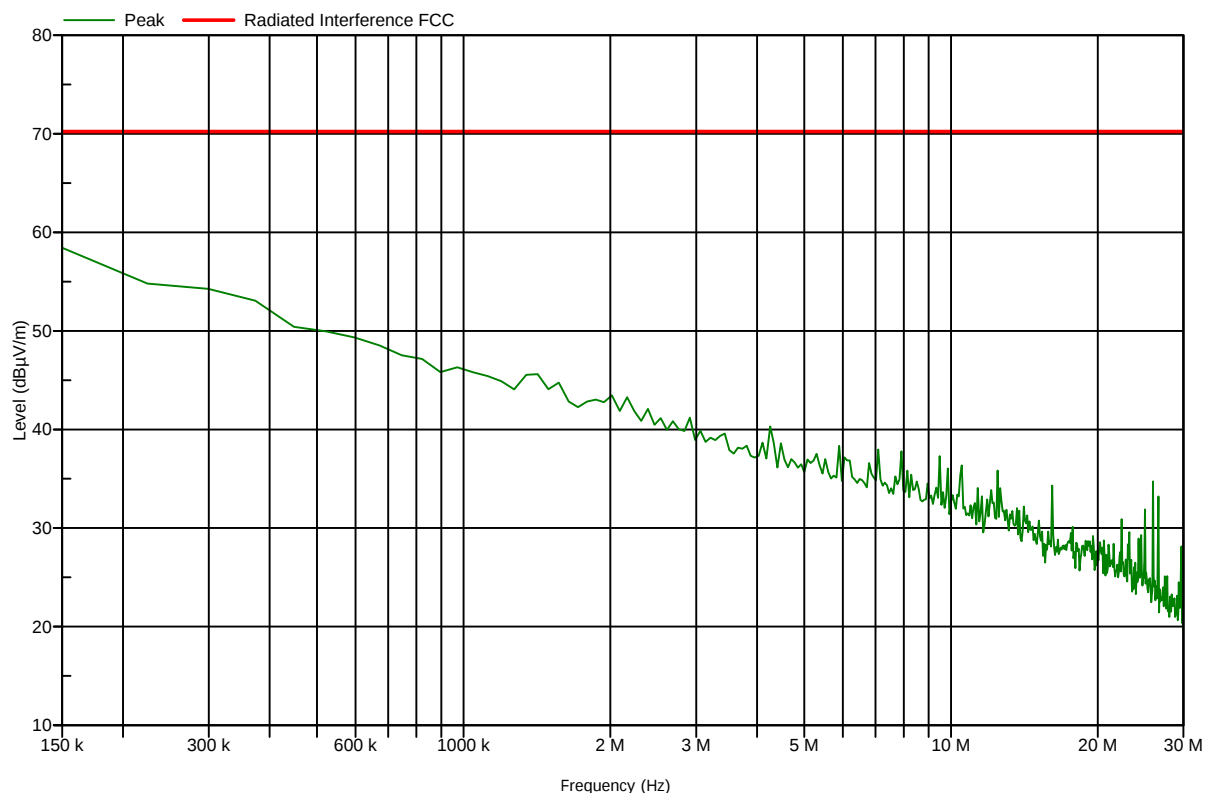
Test Results Plot No 20

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 5 MHz LOW; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

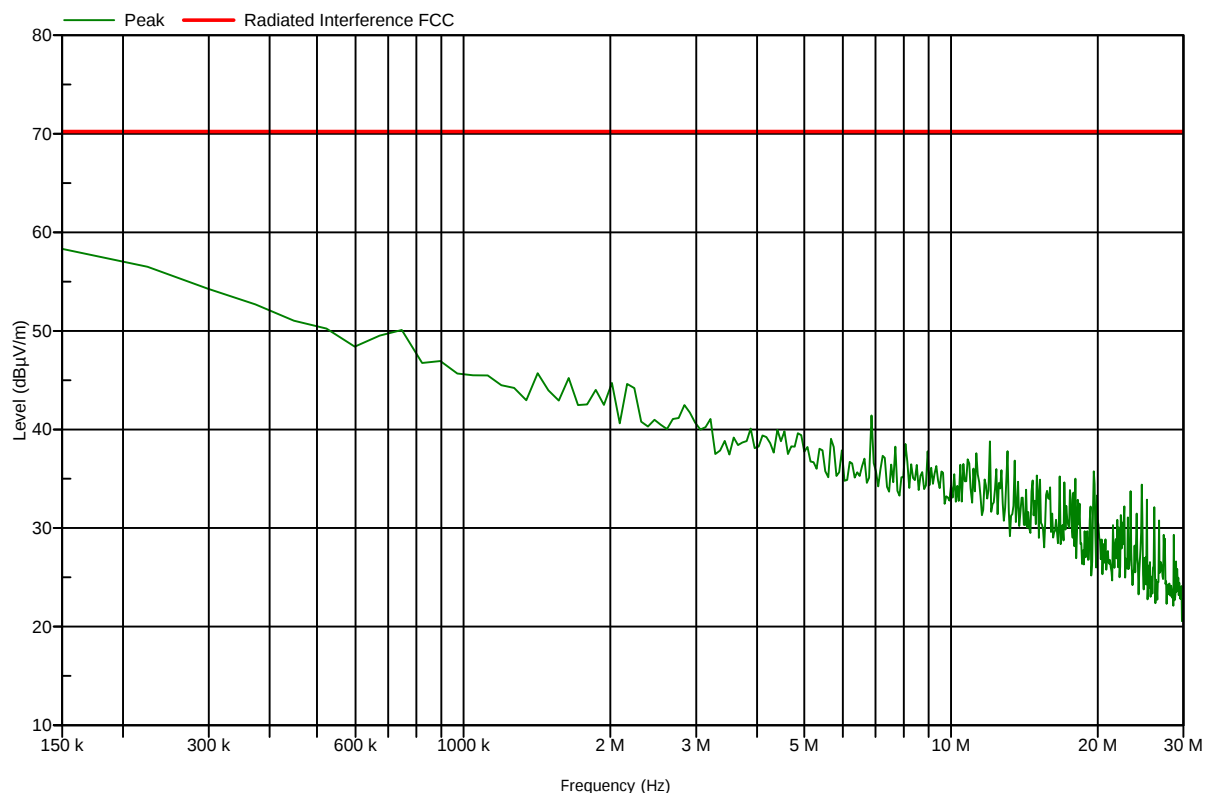
Test Results Plot No 21

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 5 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

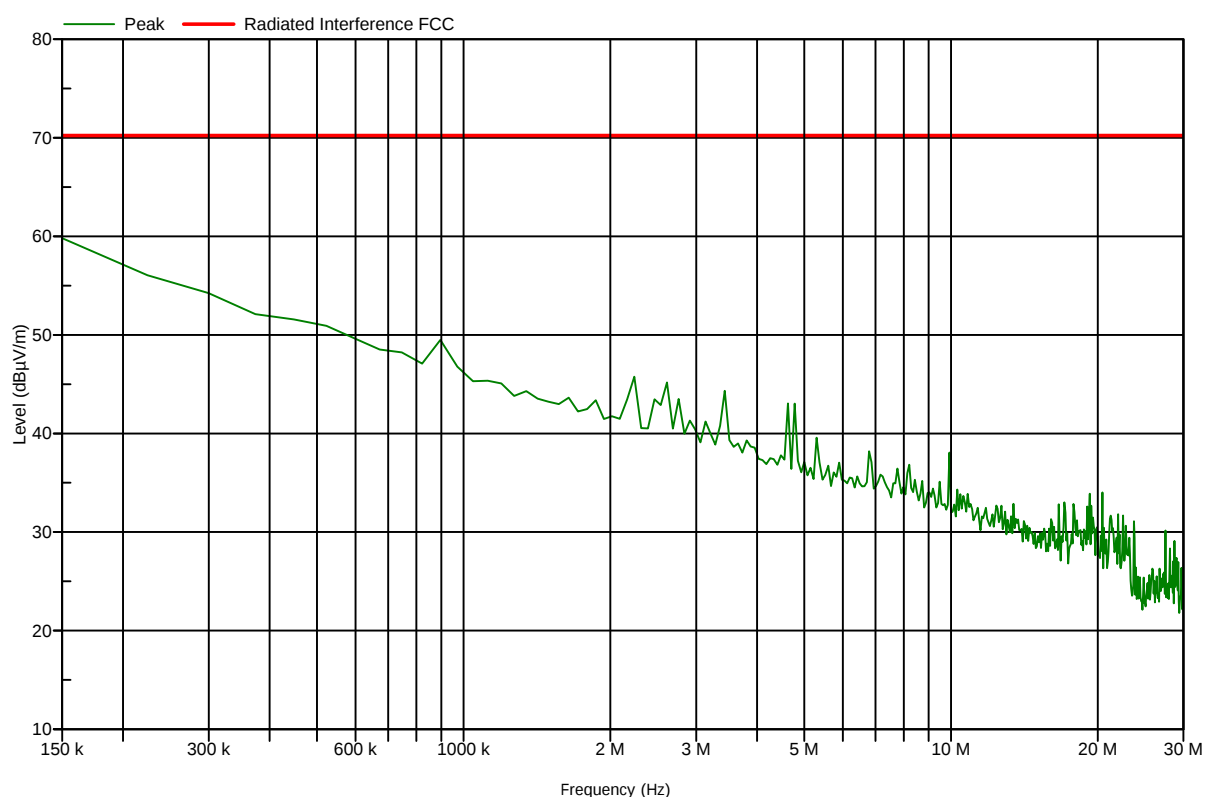
Test Results Plot No 22

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 5 MHz MID; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

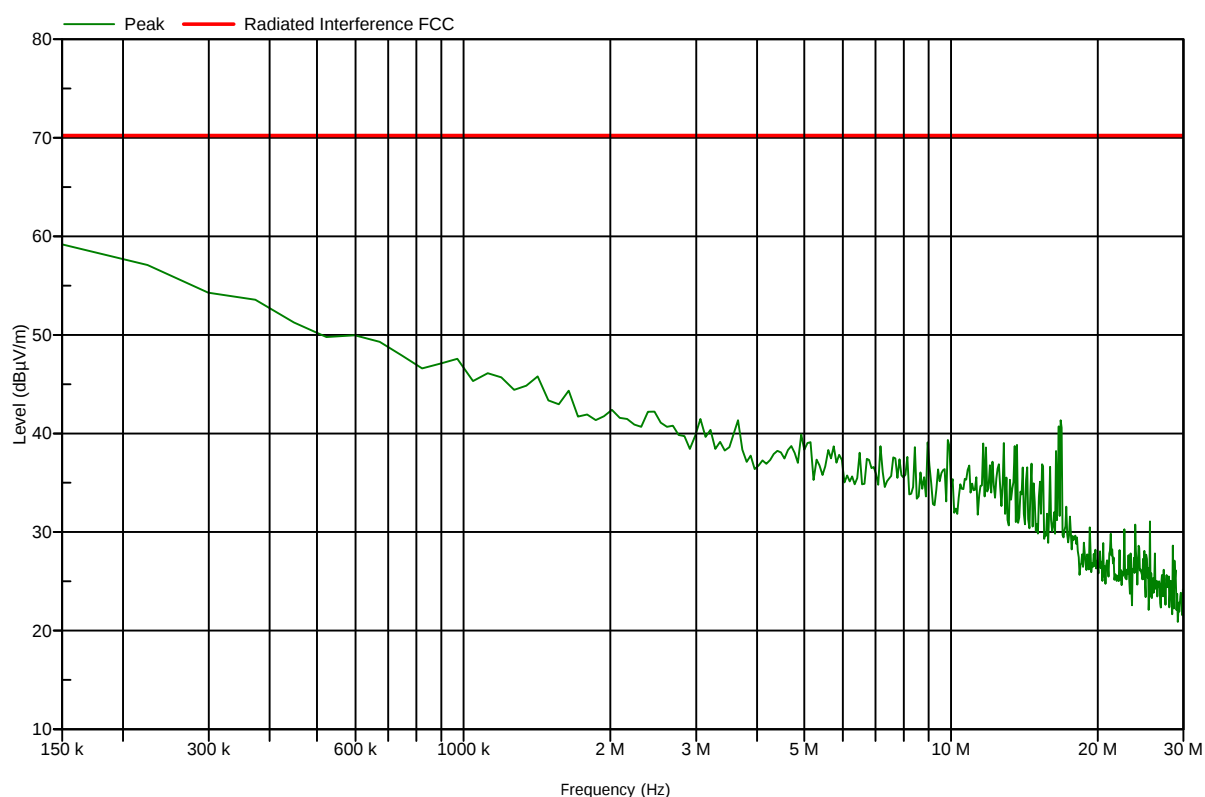
Test Results Plot No 23

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 5 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

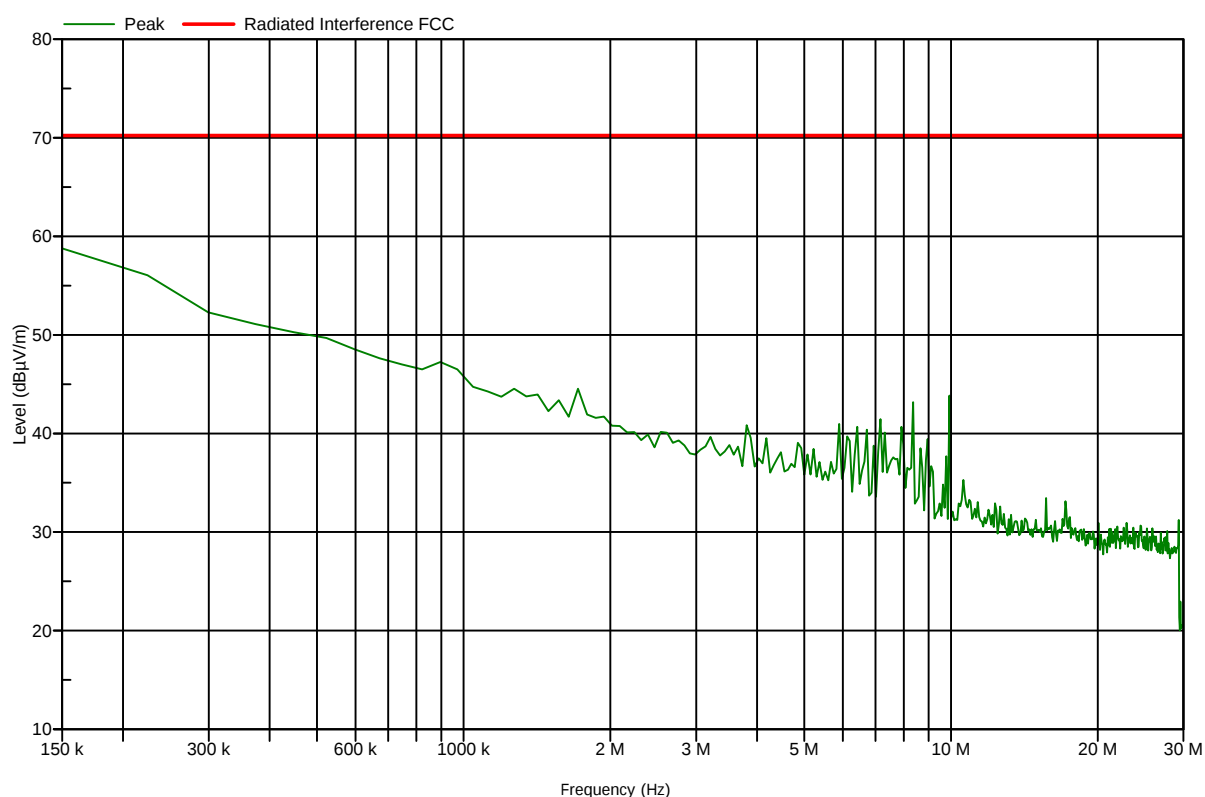
Test Results Plot No 24

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 5 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

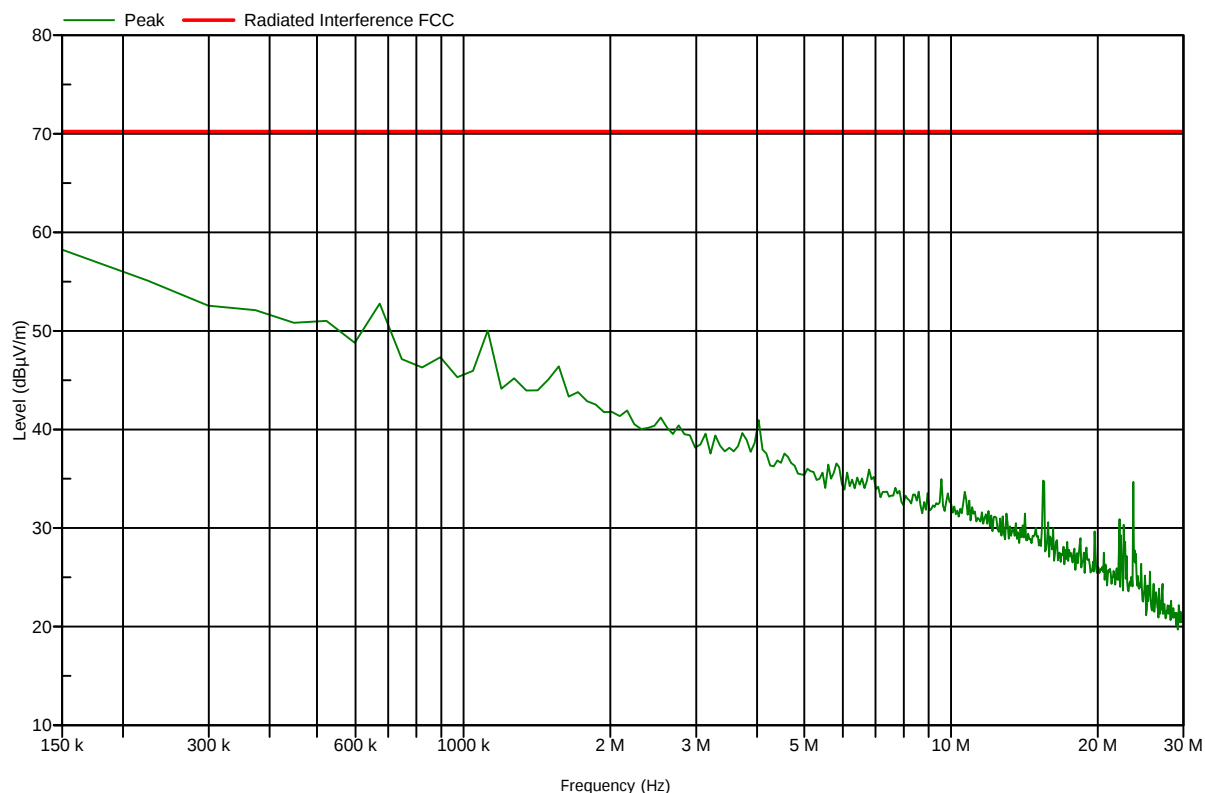
Test Results Plot No 25

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 10 MHz LOW; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

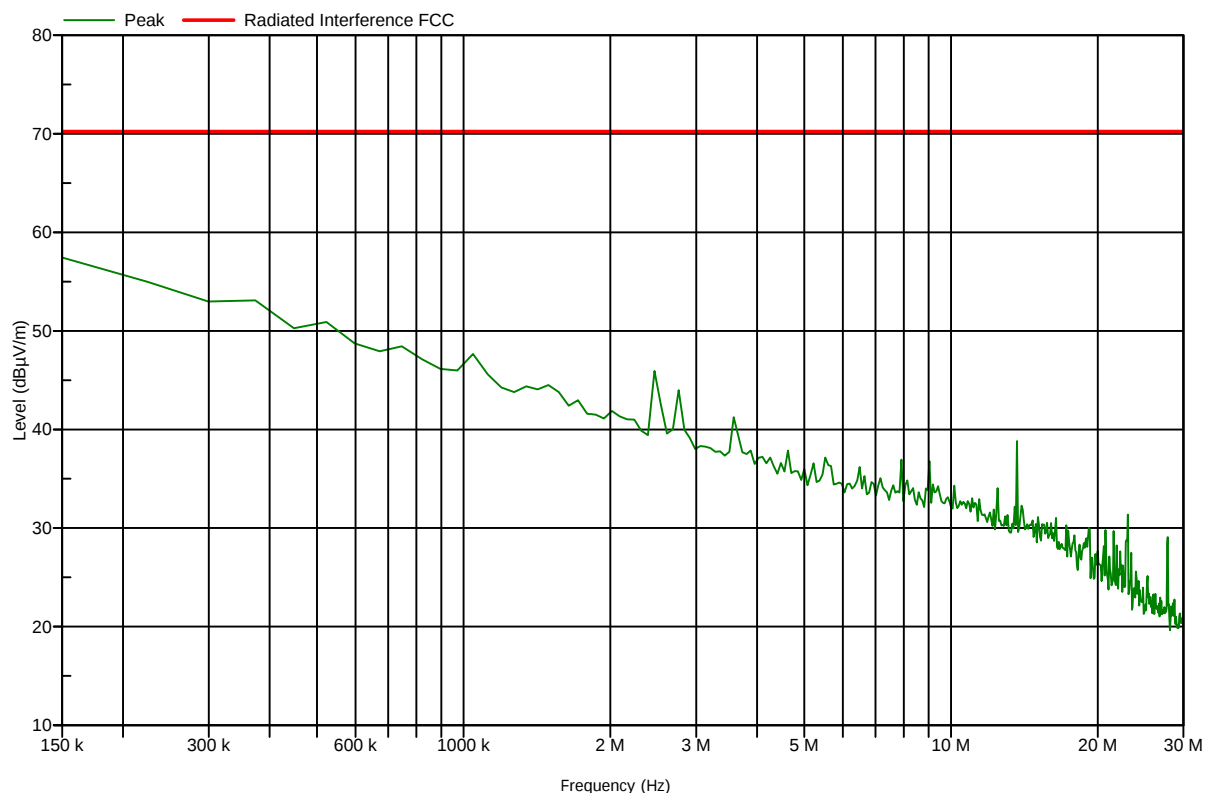
Test Results Plot No 26

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 10 MHz LOW; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

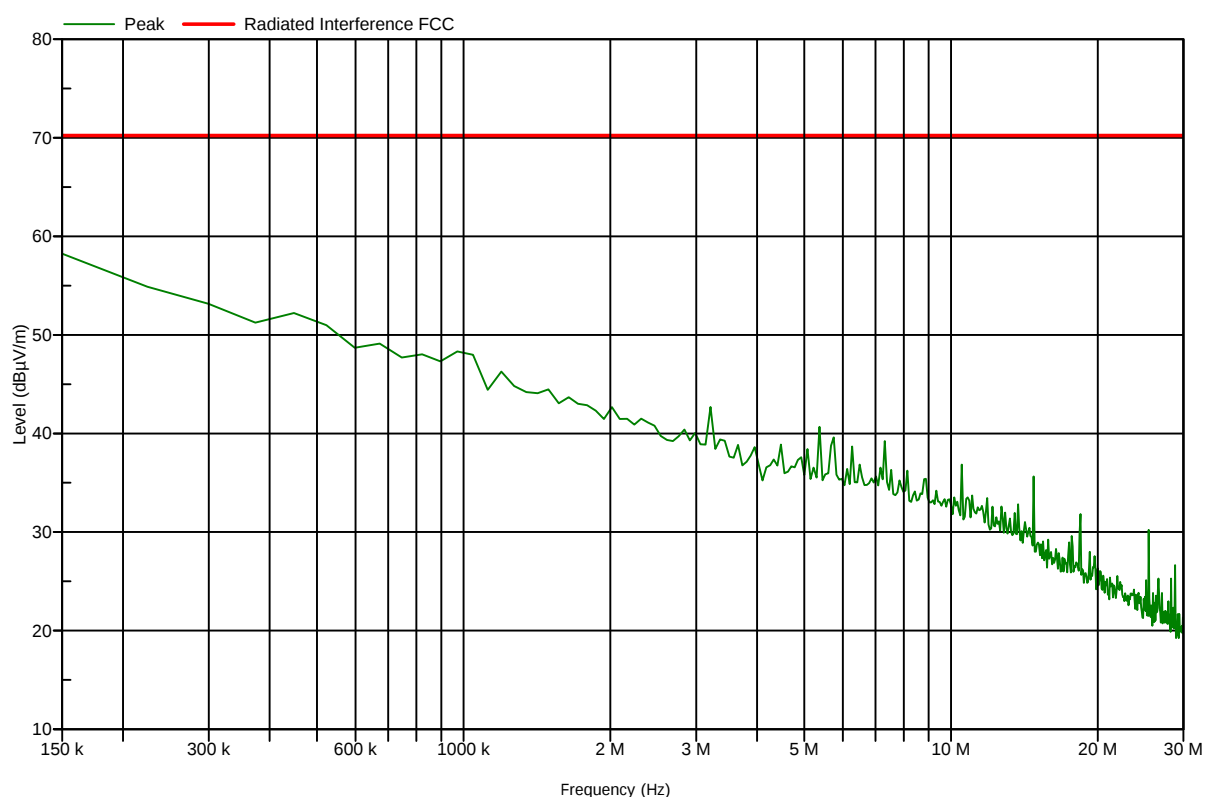
Test Results Plot No 27

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 10 MHz MID; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

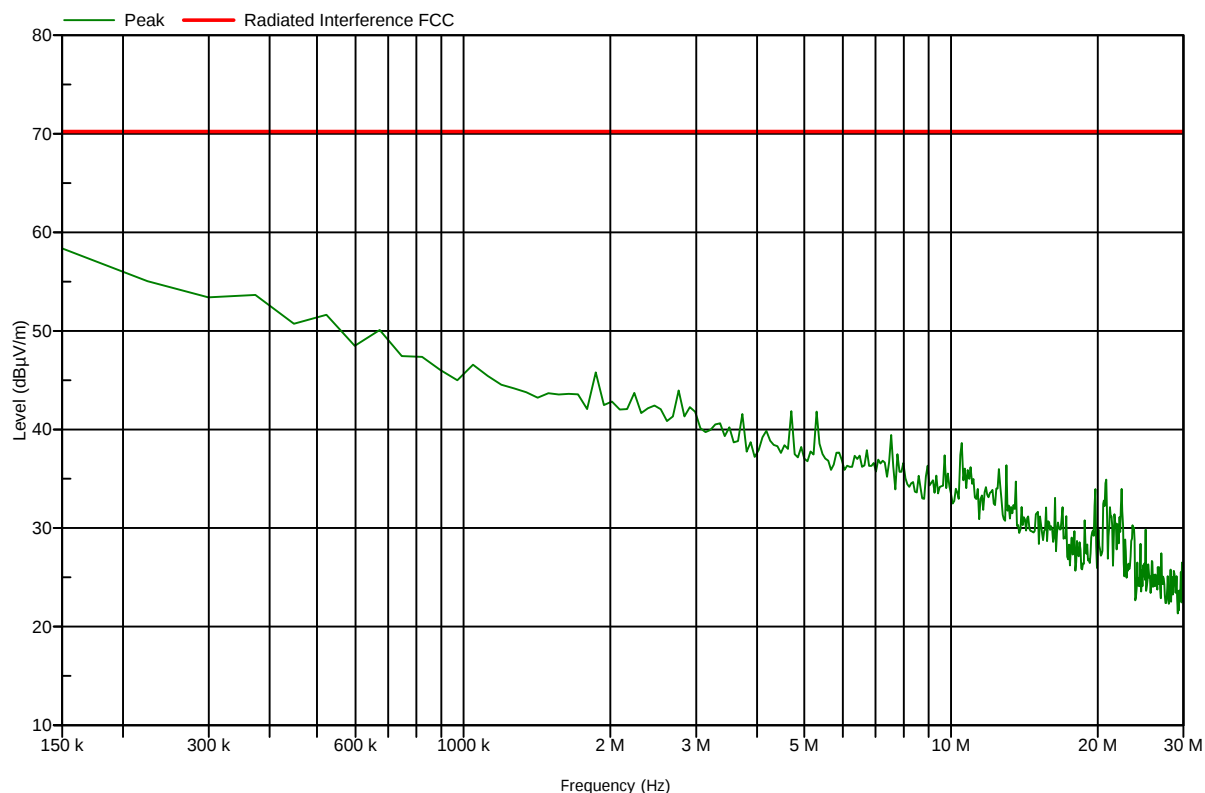
Test Results Plot No 28

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 10 MHz MID; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

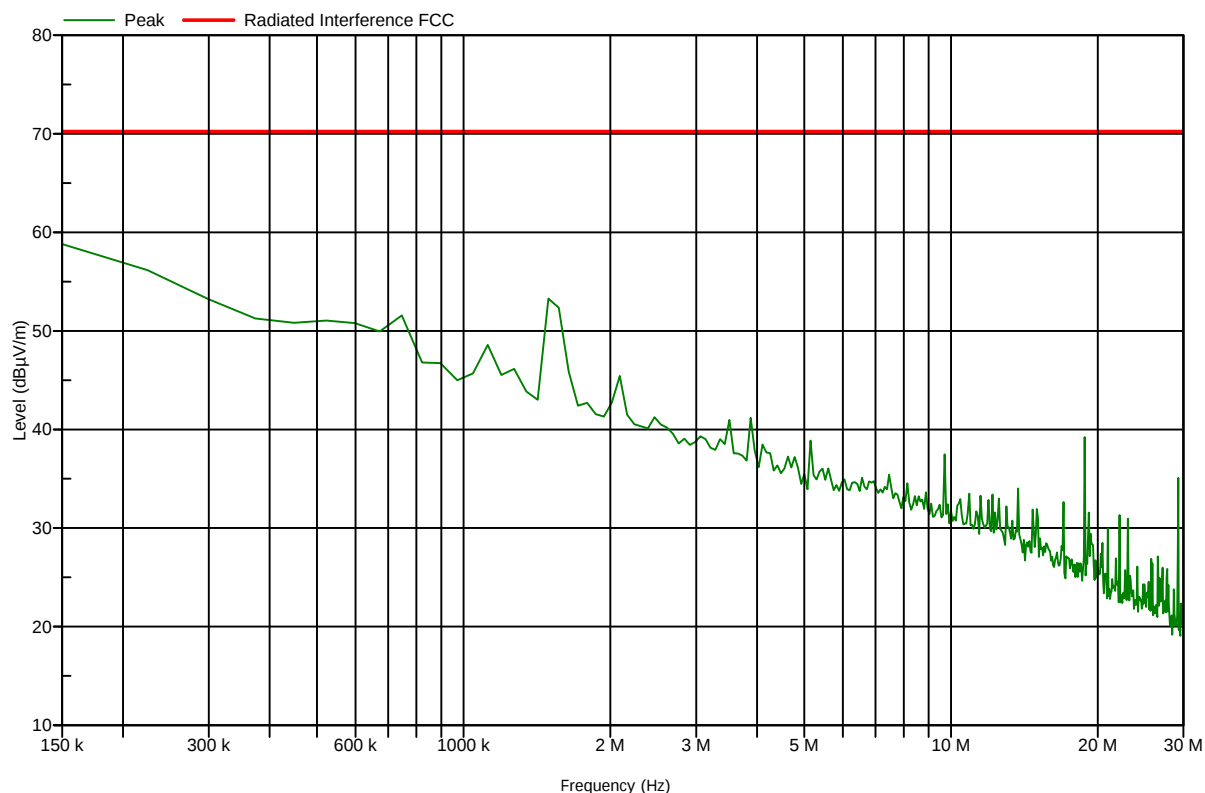
Test Results Plot No 29

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 10 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

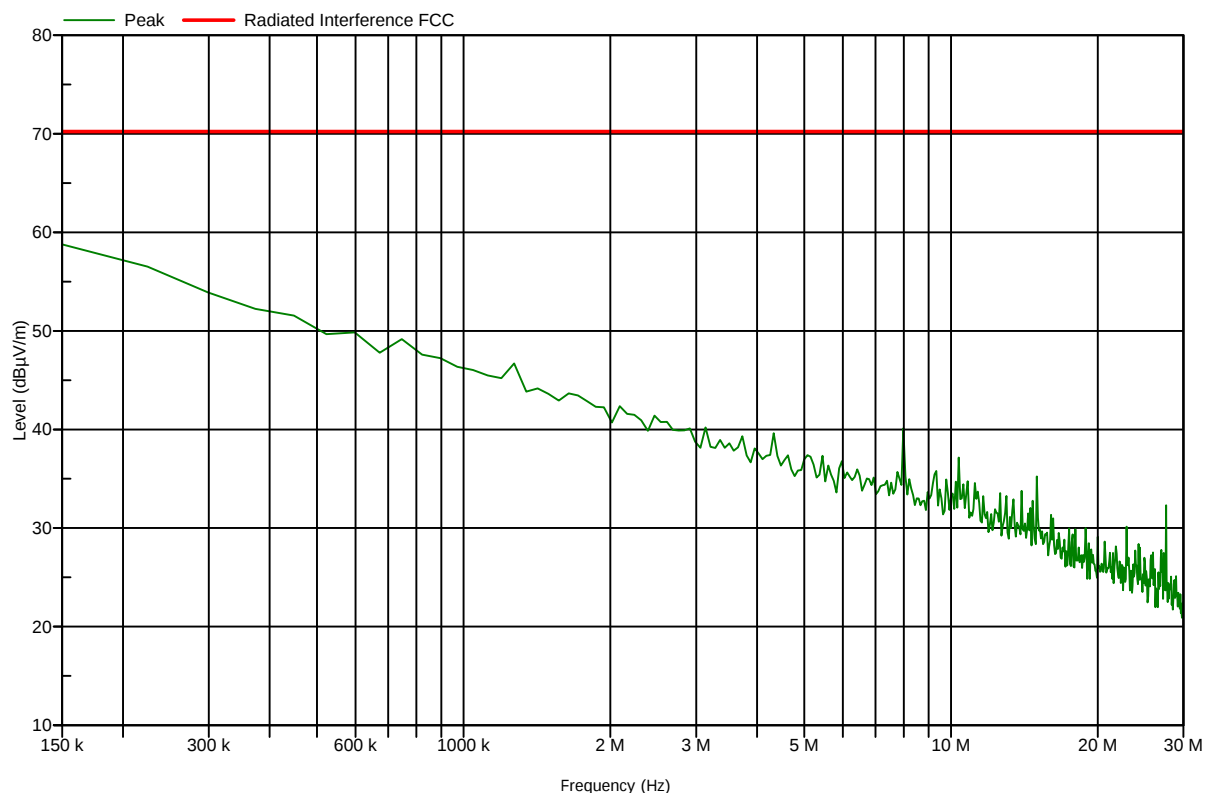
Test Results Plot No 30

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 10 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

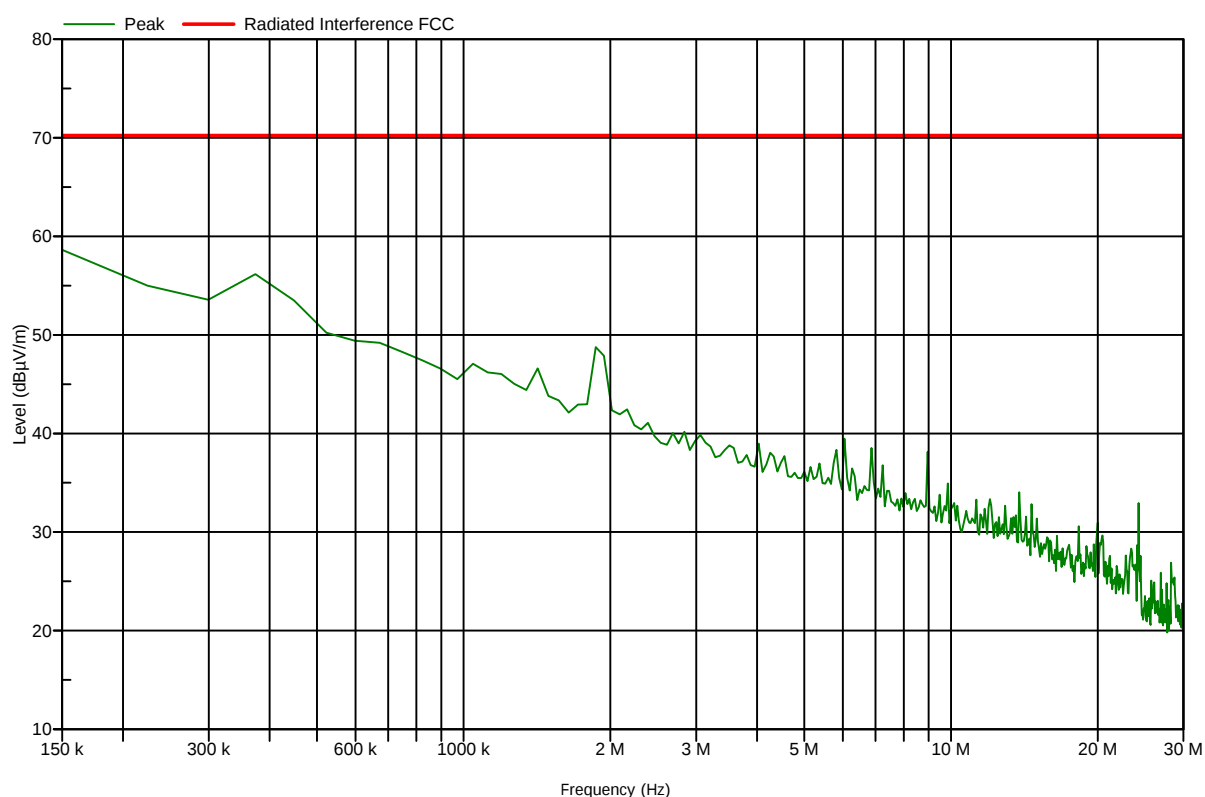
Test Results Plot No 31

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 20 MHz LOW; 50 Ohm termination for both RF port


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

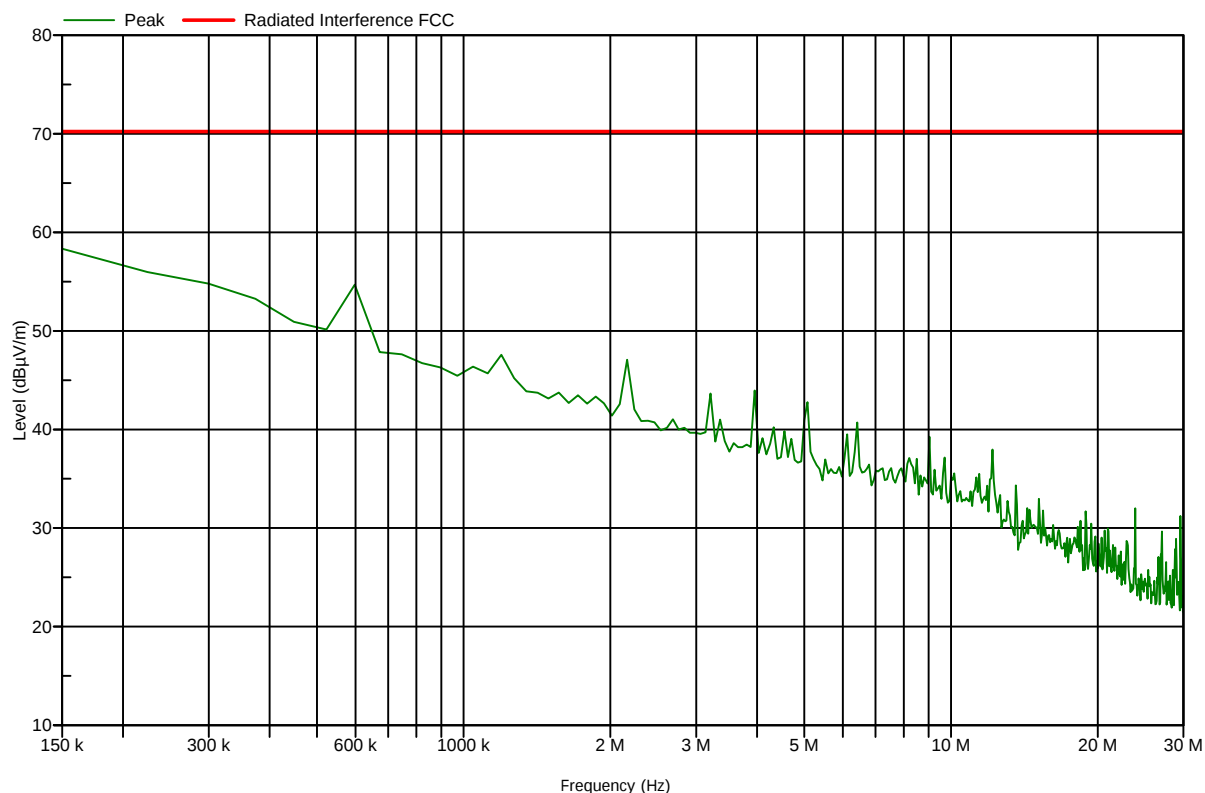
Test Results Plot No 32

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 20 MHz LOW; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

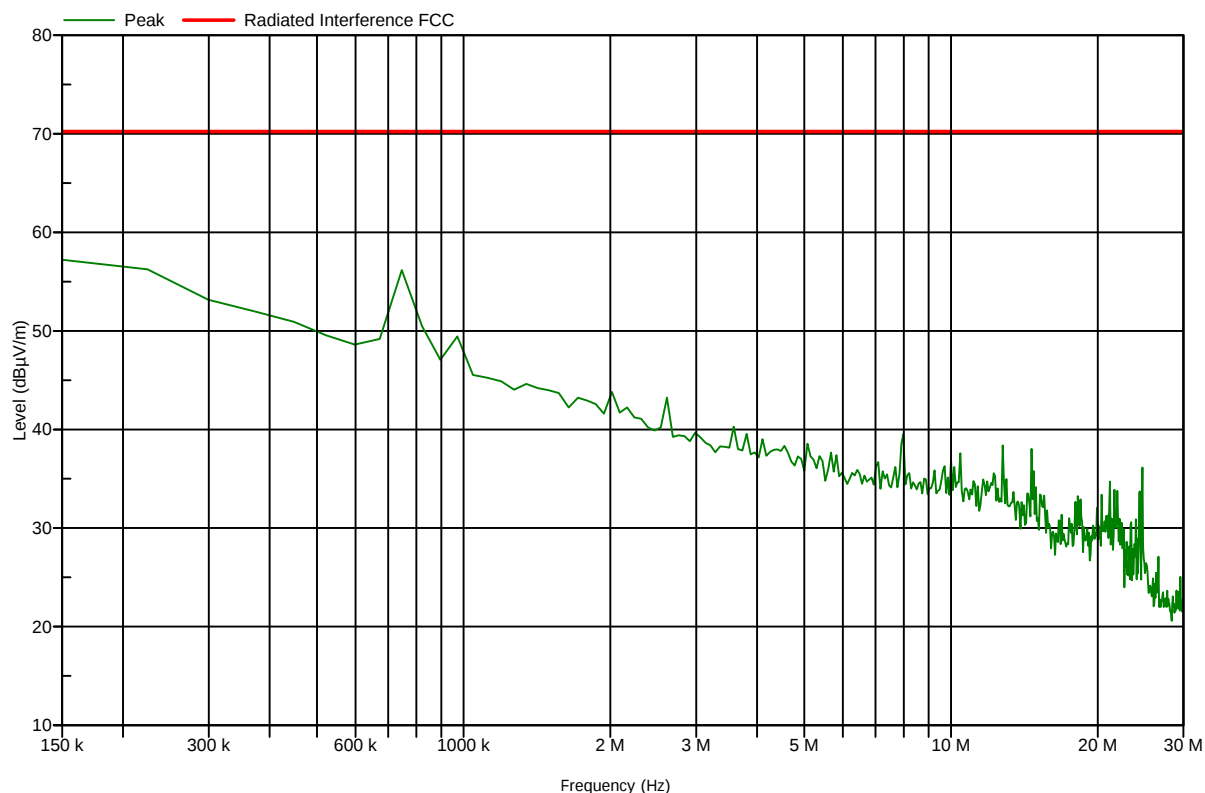
Test Results Plot No 33

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 20 MHz MID; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

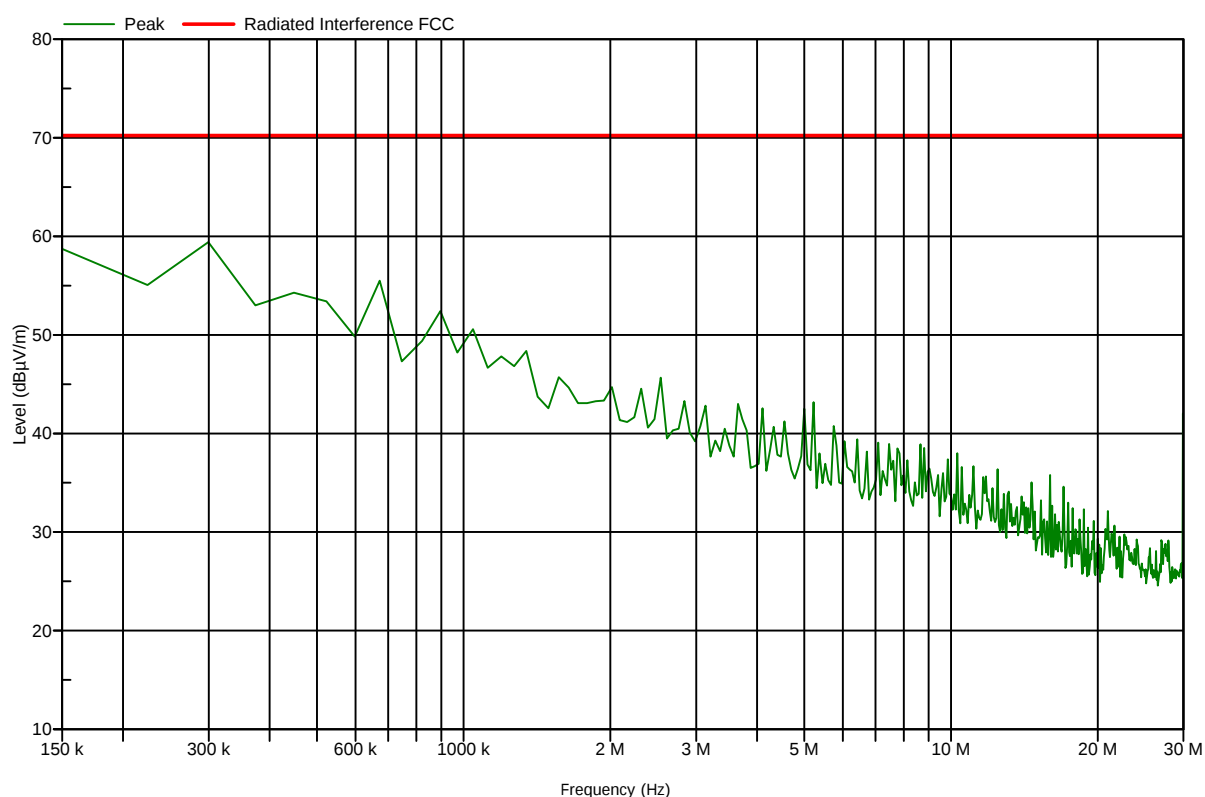
Test Results Plot No 34

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL- 20 MHz MID; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

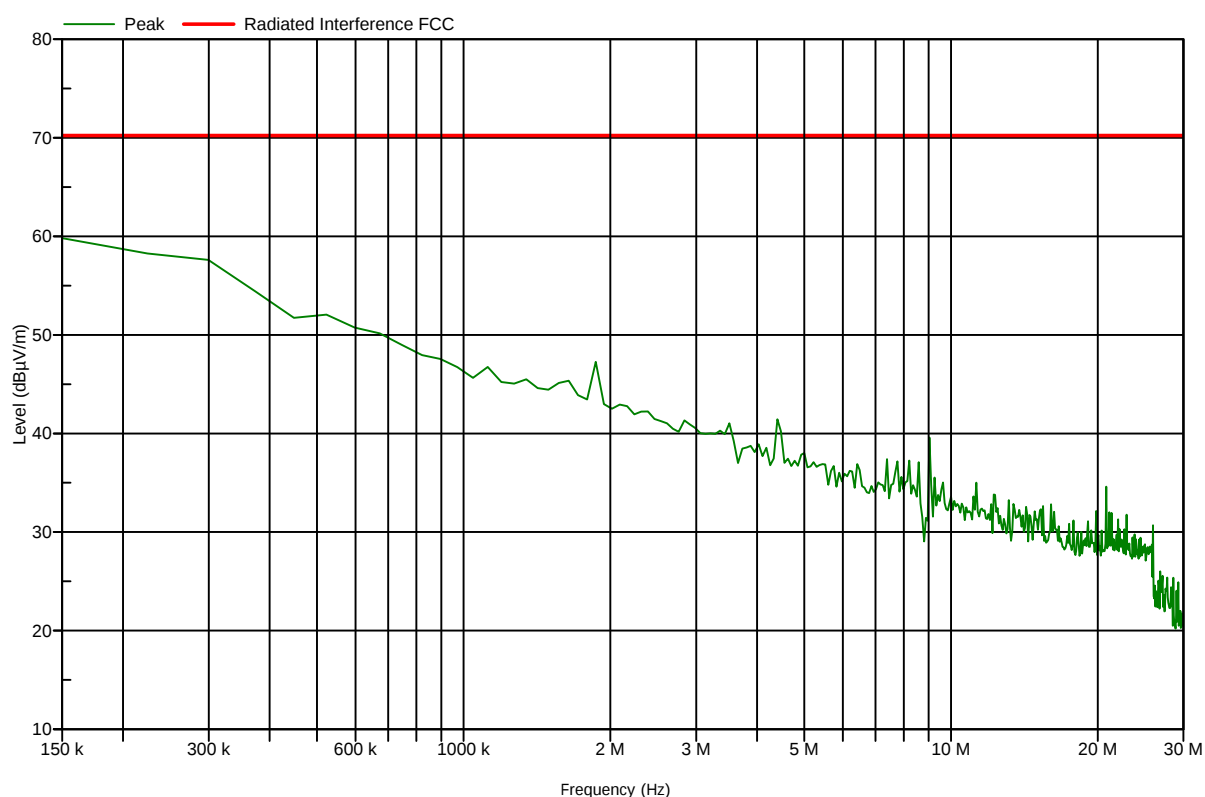
Test Results Plot No 35

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz VERTICAL- 20 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

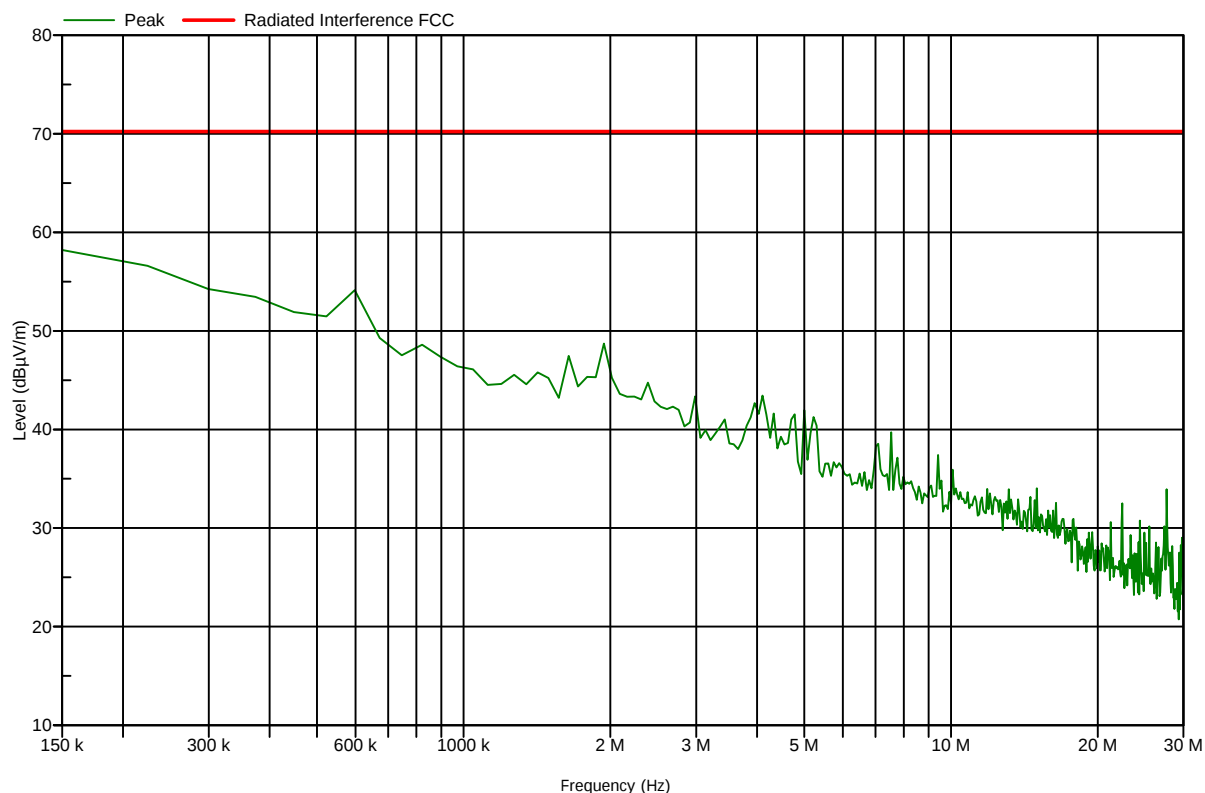
Test Results Plot No 36

FCC 90.210 0.15-30 MHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	80 dB μ V
Date of Test:	19.03.2012	RBW:	9 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 Hz
Antenna:	E-FIELD R&S 9K-30M ANTENNA	Sweep Time:	Auto [13.5 s]
Polarization:	Horizontal	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

0.15-30 MHz HORIZONTAL – 20 MHz HIGH; 50 Ohm termination for both RF port



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

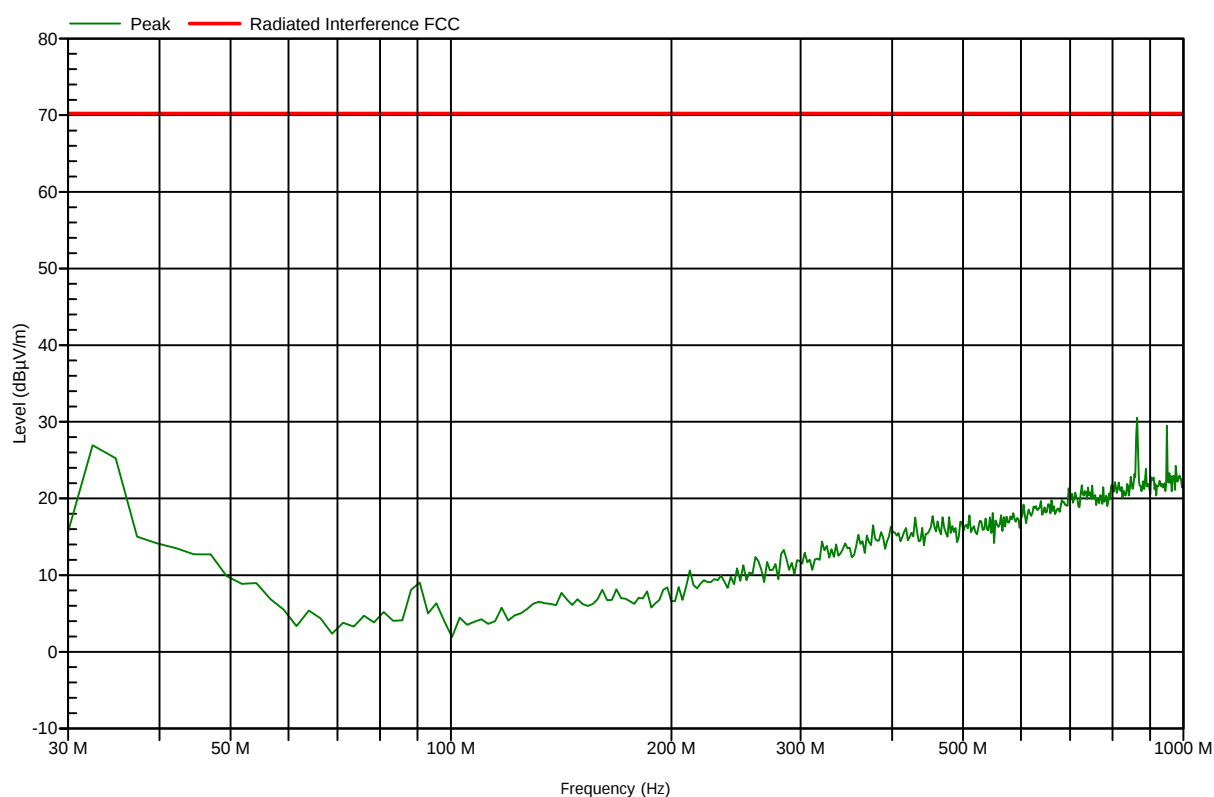
Test Results Plot No 37

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 5 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

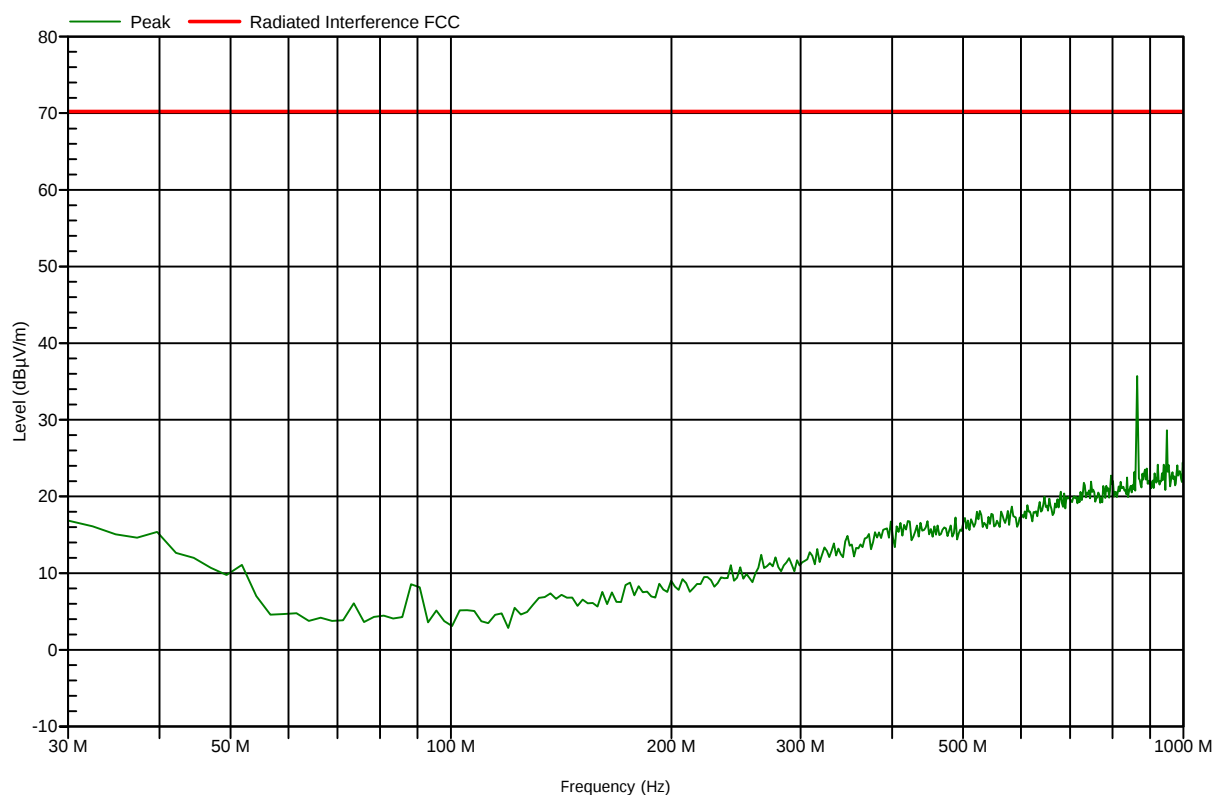
Test Results Plot No 38

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 5 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

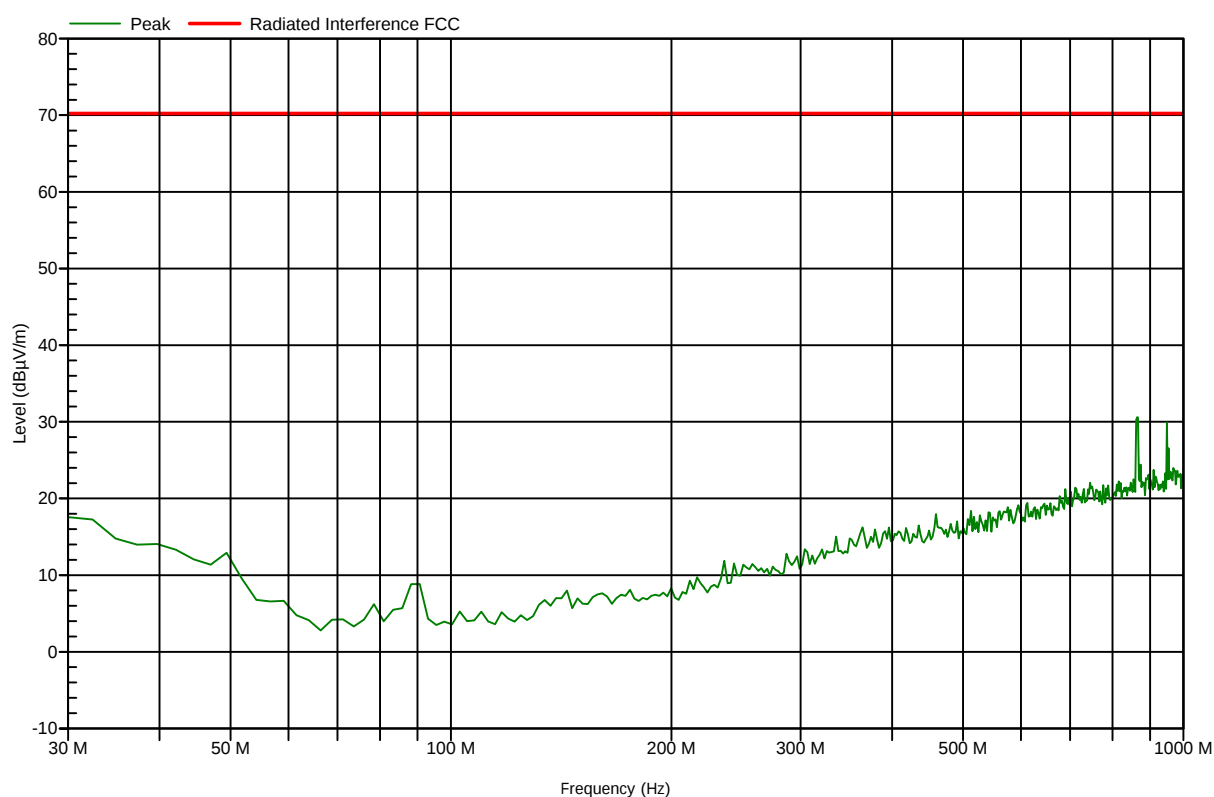
Test Results Plot No 39

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 5 MHz High; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

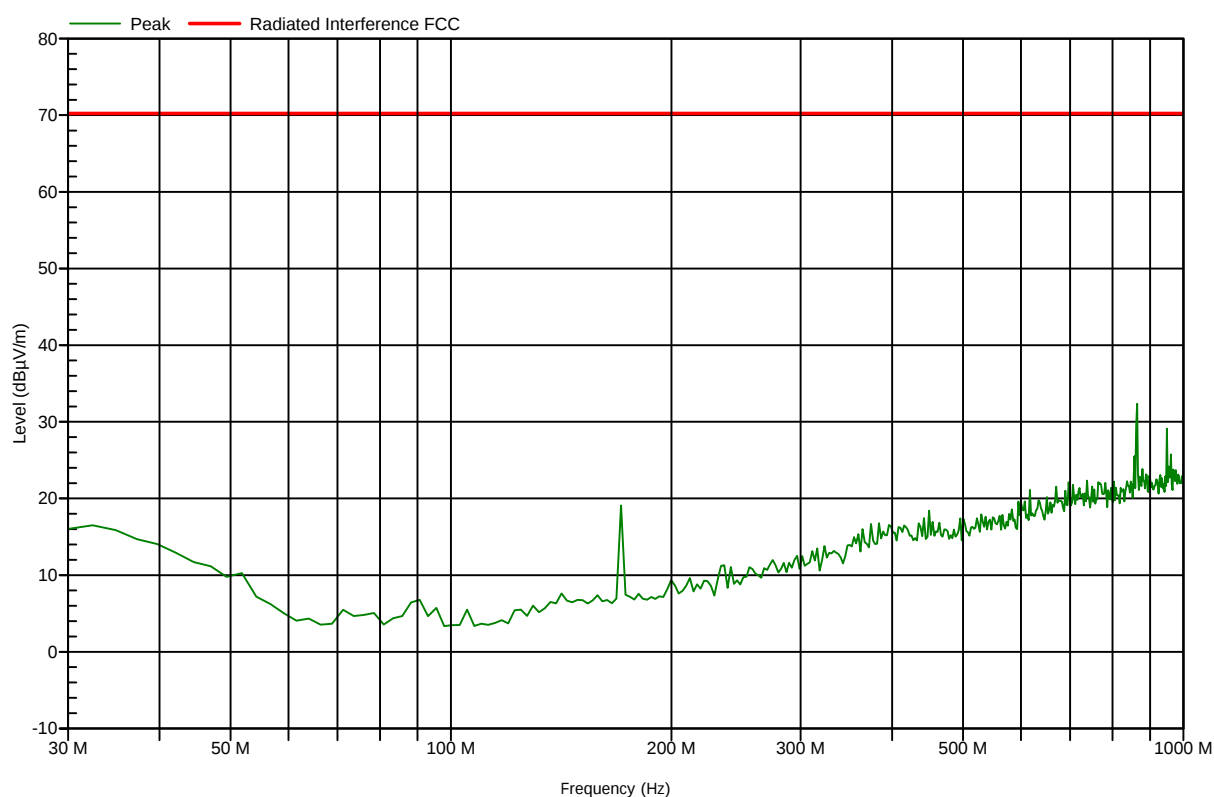
Test Results Plot No 40

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 10 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

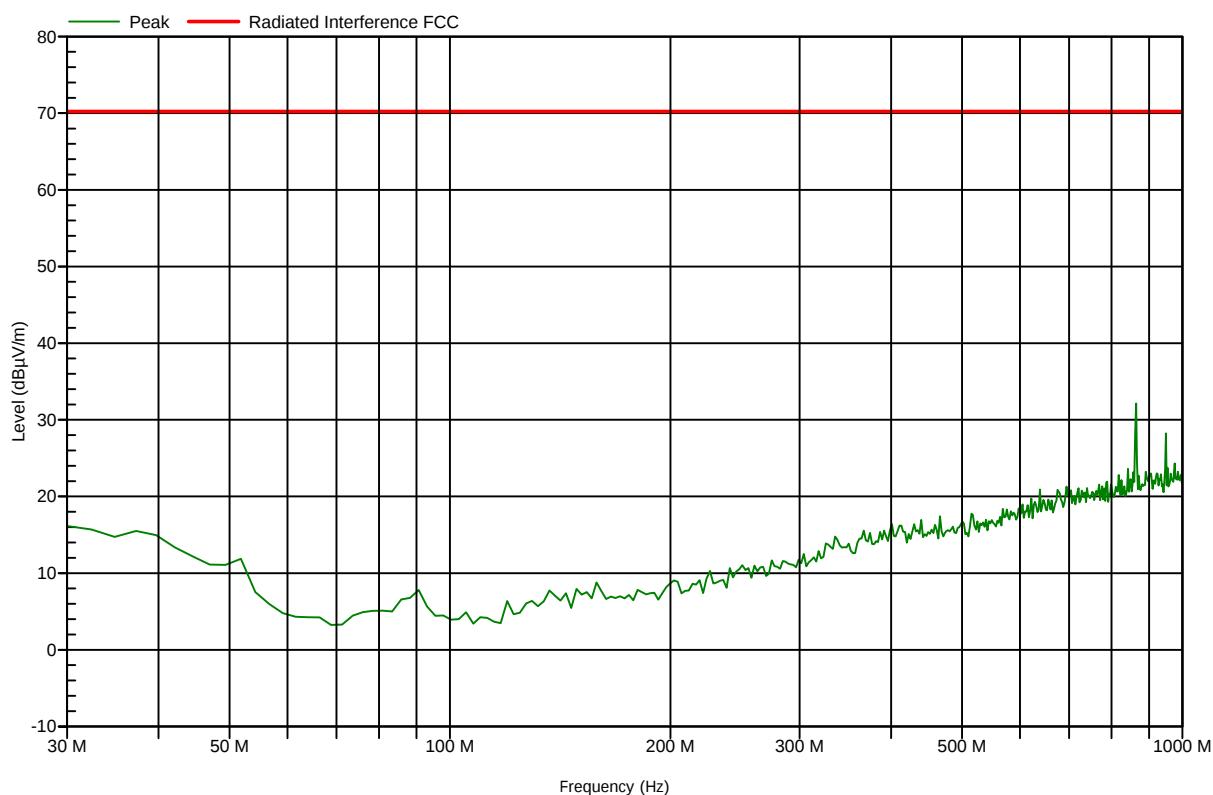
Test Results Plot No 41

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 10 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

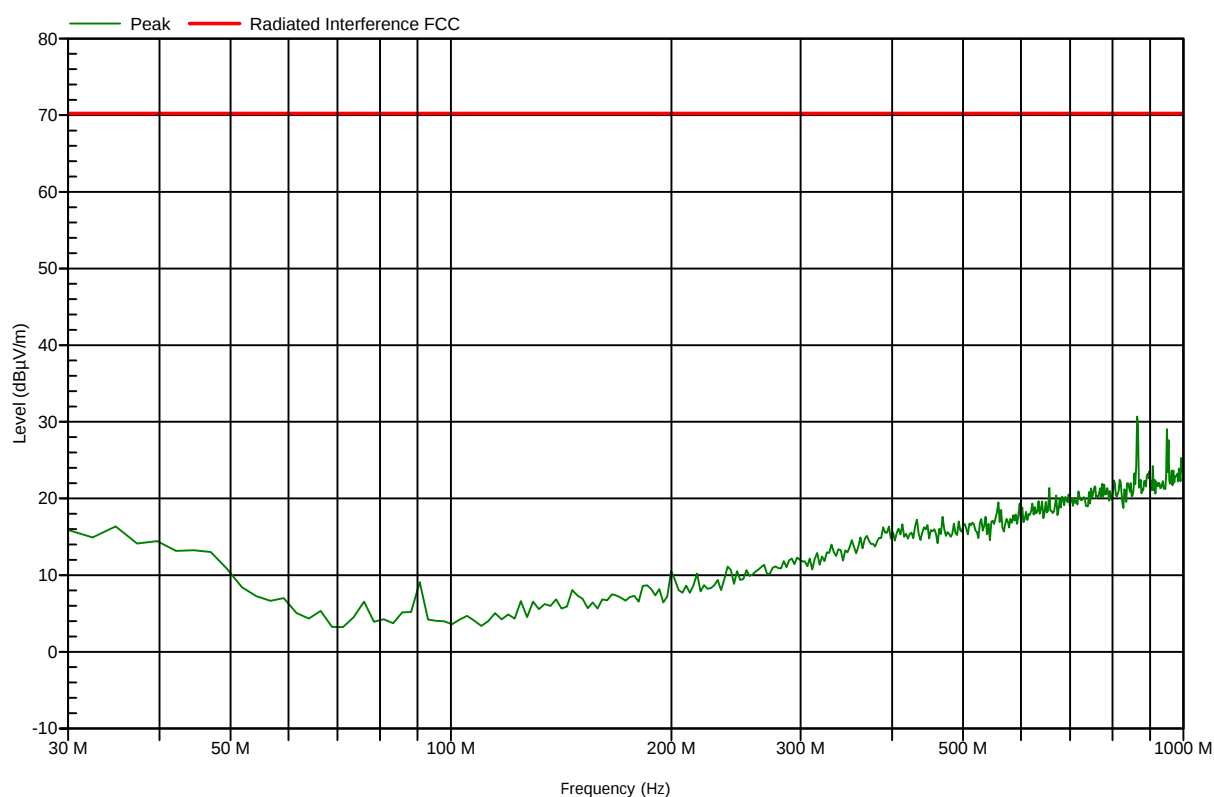
Test Results Plot No 42

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 10 MHz High; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

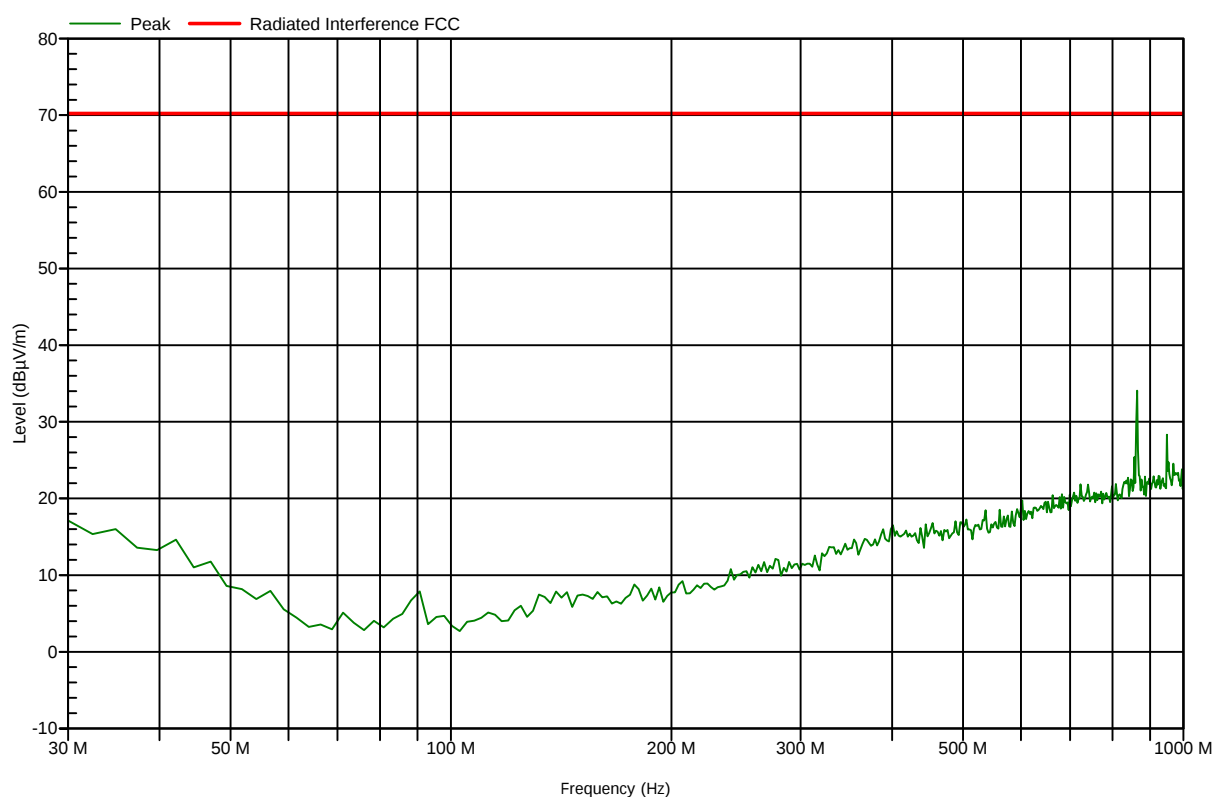
Test Results Plot No 43

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 20 MHz LOW



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

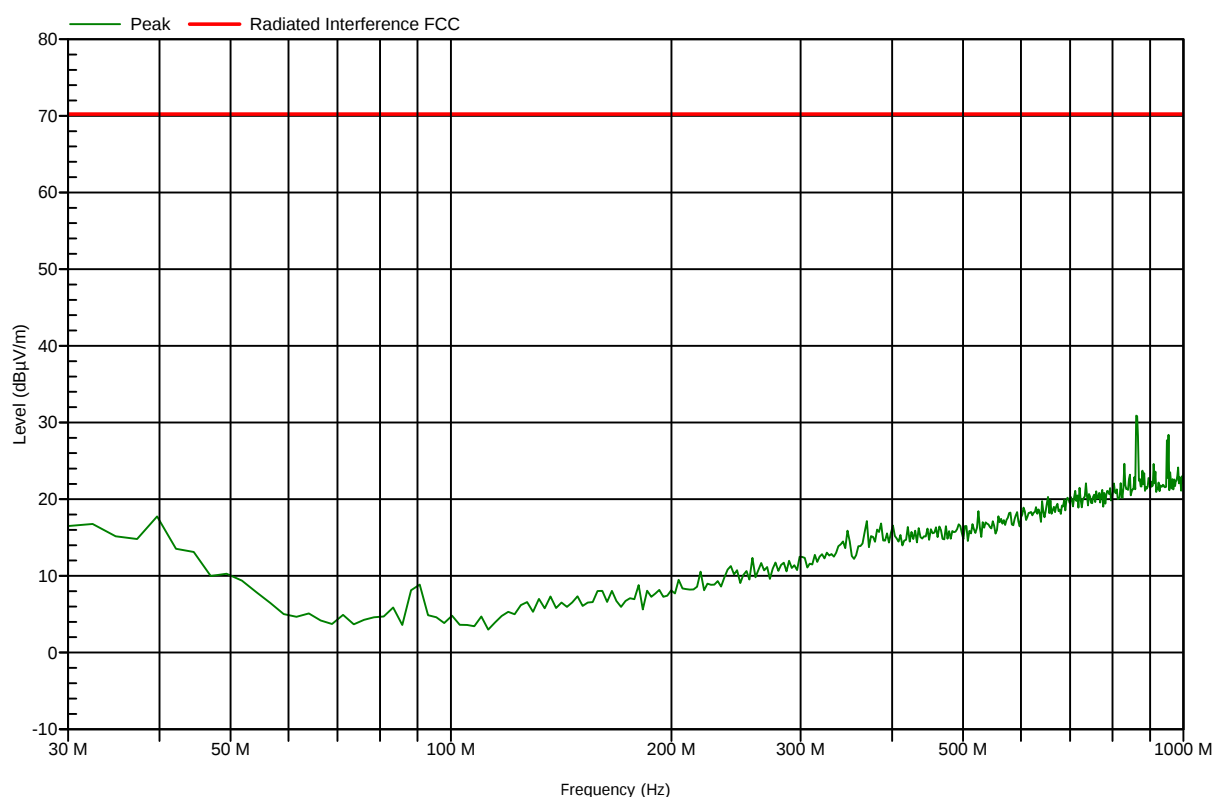
Test Results Plot No 44

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 20 MHz MID



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

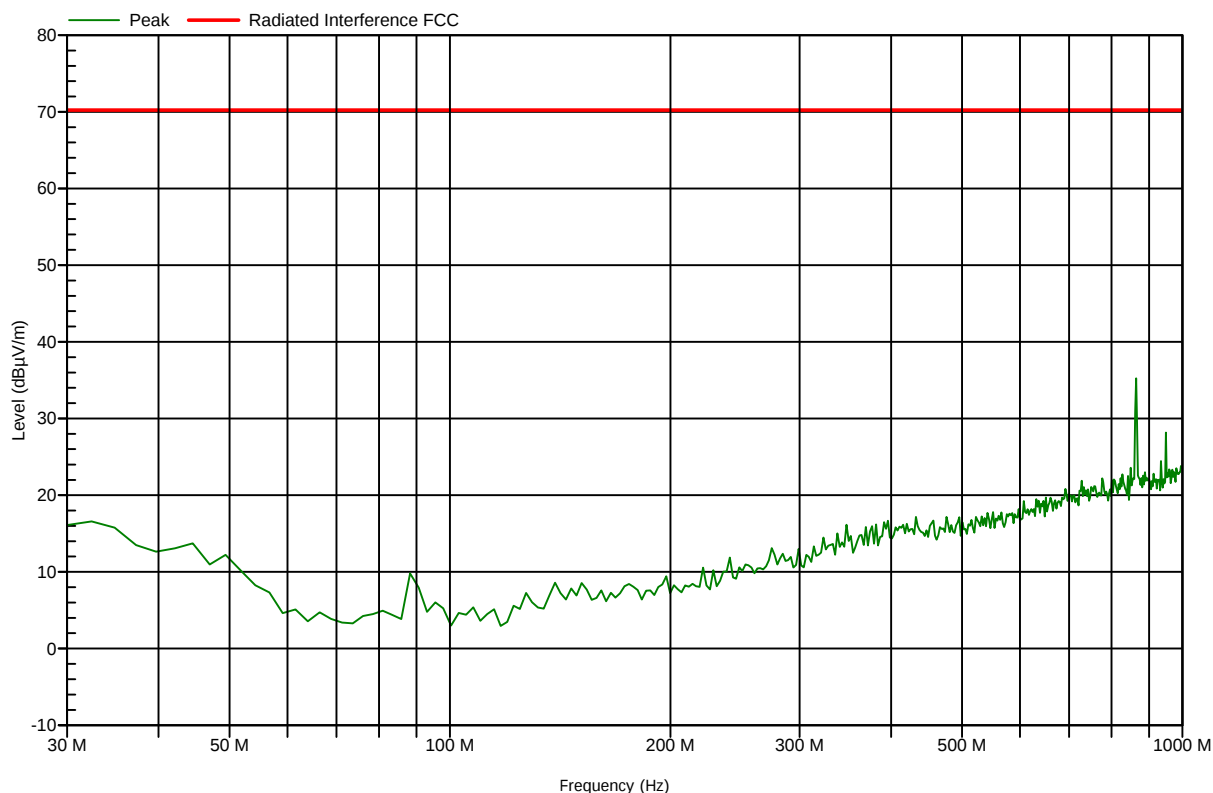
Test Results Plot No 45

30 MHz-1 GHz Quasi_Peak Spurious Emission

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405A DC Coupling
S/N:	0050C2AC7CAC	Ref. Level:	70 dB μ V
Date of Test:	19.03.2012	RBW:	120 kHz
Test Engineer:	Ilya Arbitman	VBW:	300 kHz
Antenna:	Frankonia gray BTA-L_B 3m	Sweep Time:	Auto [155.08 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	LNA MITEQ 0.01-1GHz No-2

TEST REMARKS: Monday, March 19, 2012

30 M-1 G, 20 MHz High


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

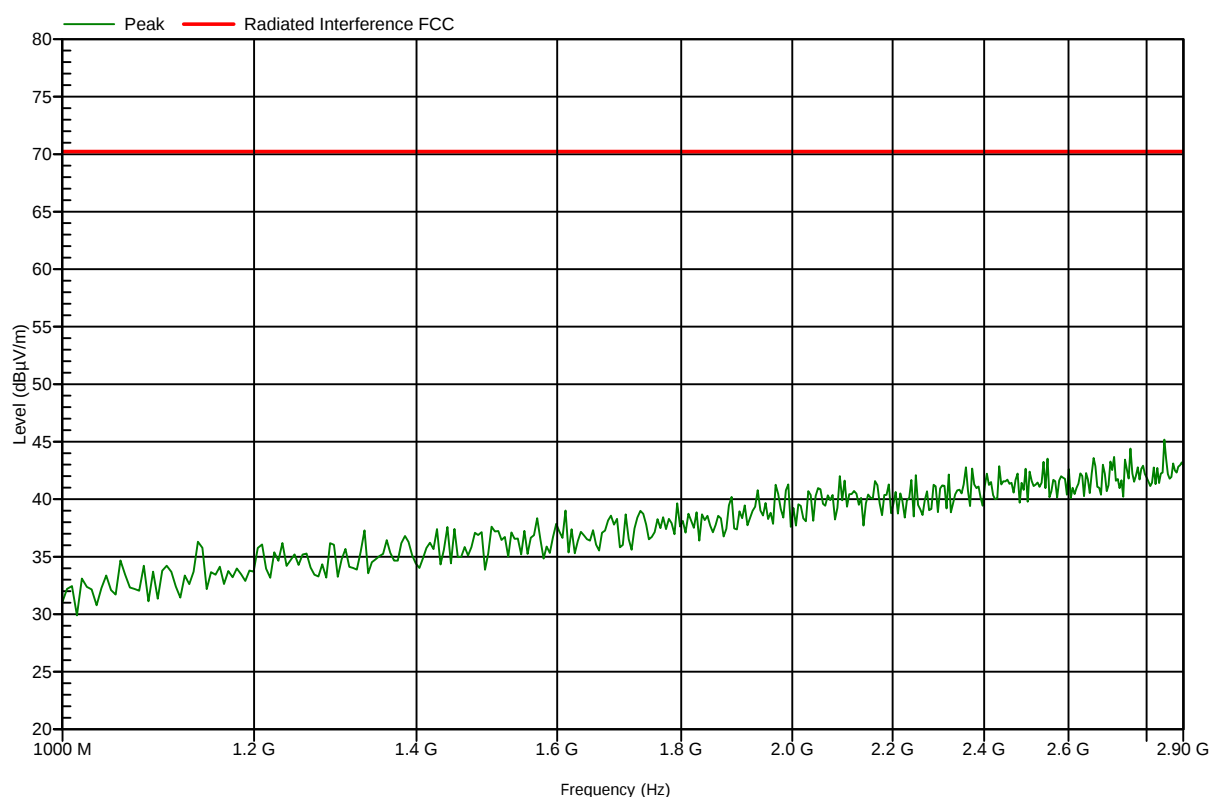
Test Results Plot No 46

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 5 MHz low; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

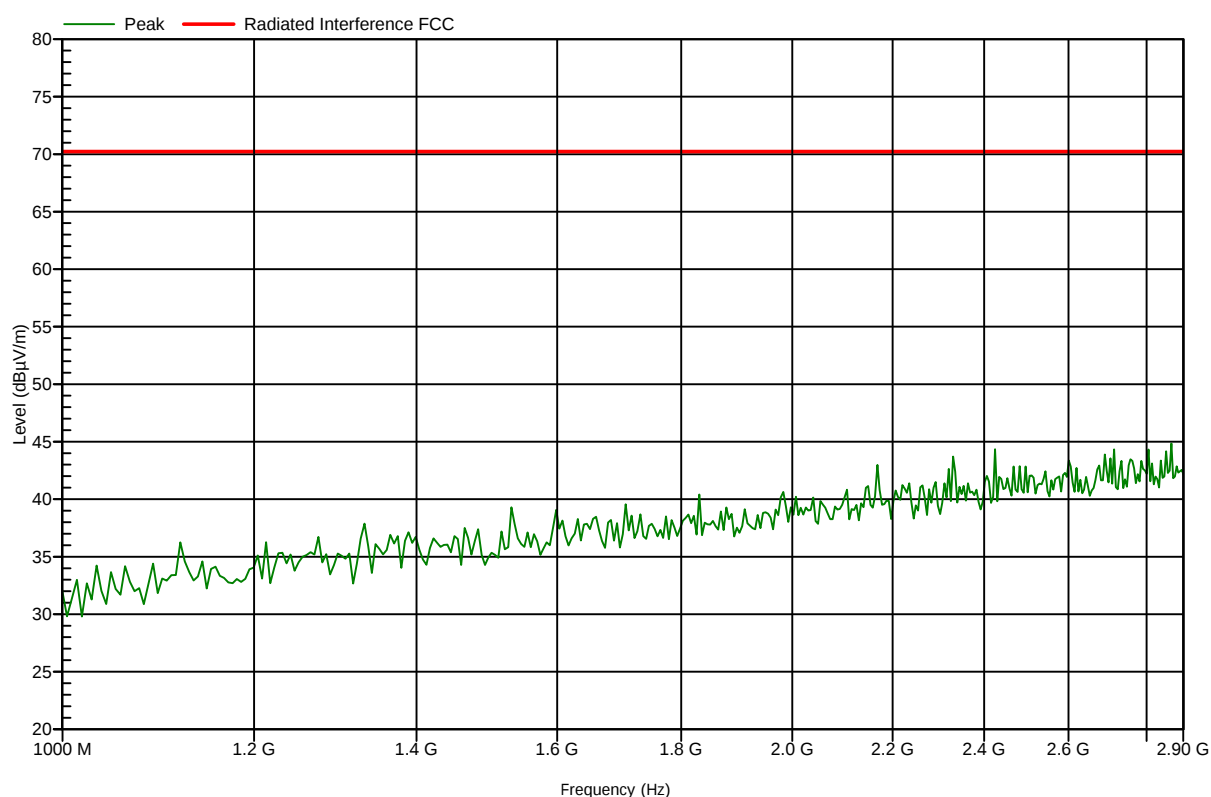
Test Results Plot No 47

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 5 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

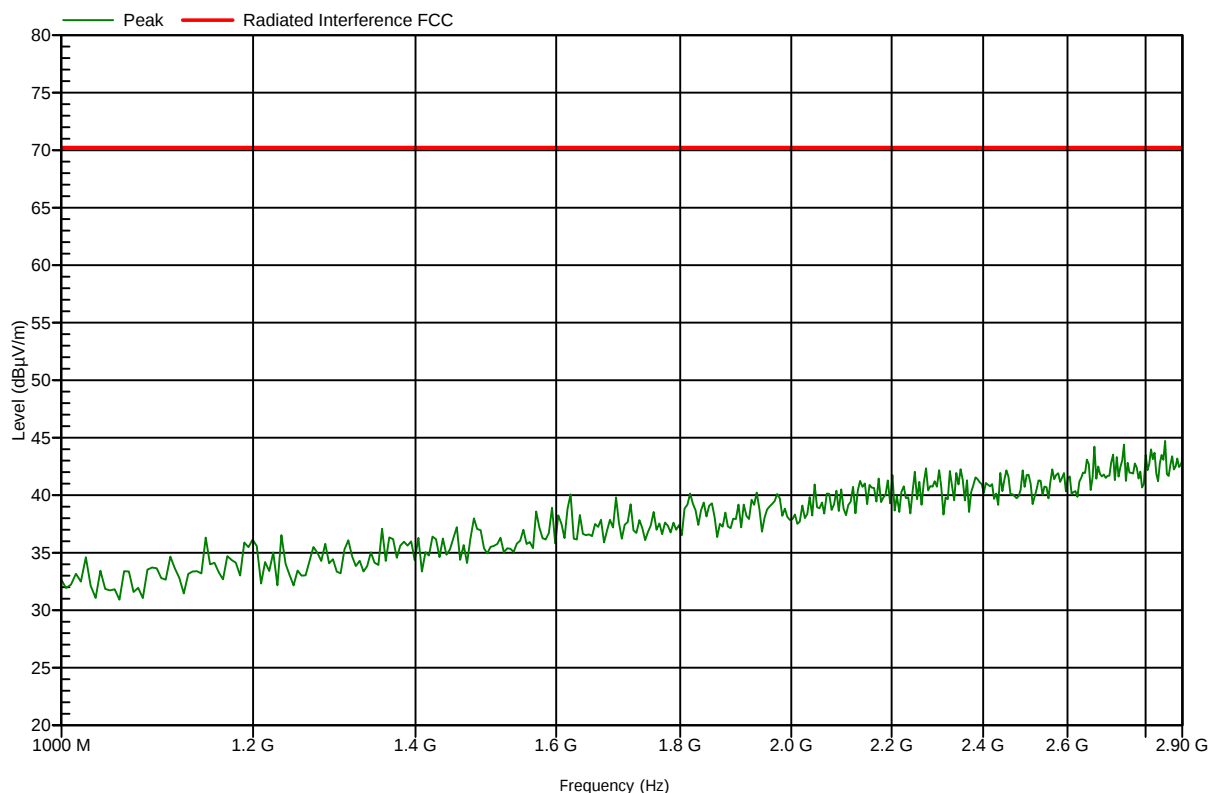
Test Results Plot No 48

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz-, 5 MHz High; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

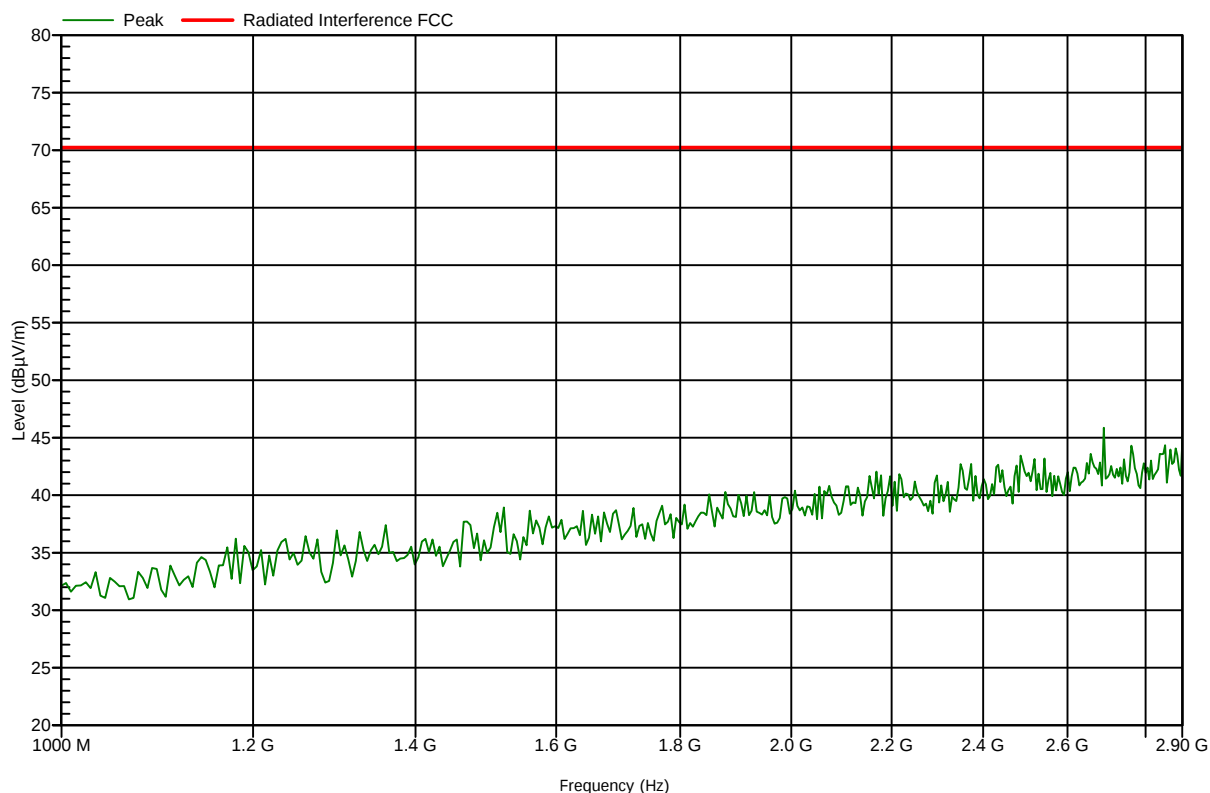
Test Results Plot No 49

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz-10 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

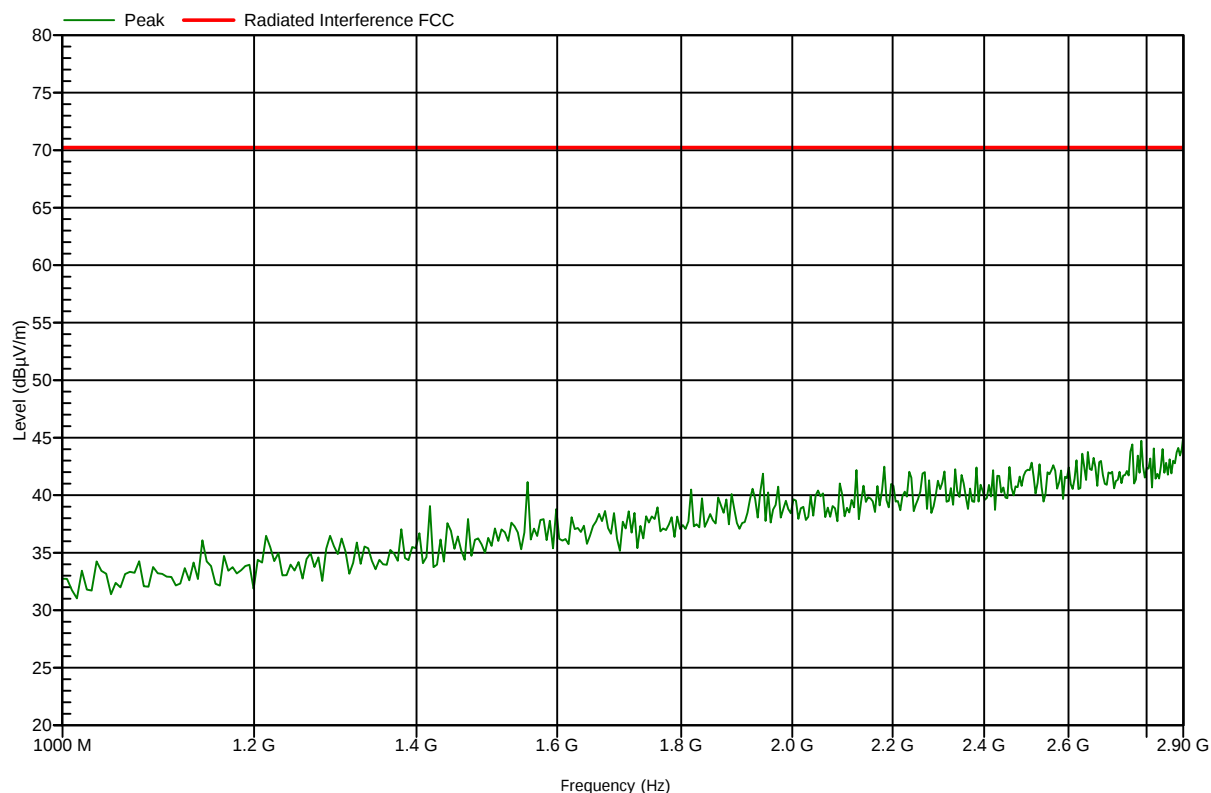
Test Results Plot No 50

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 10 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

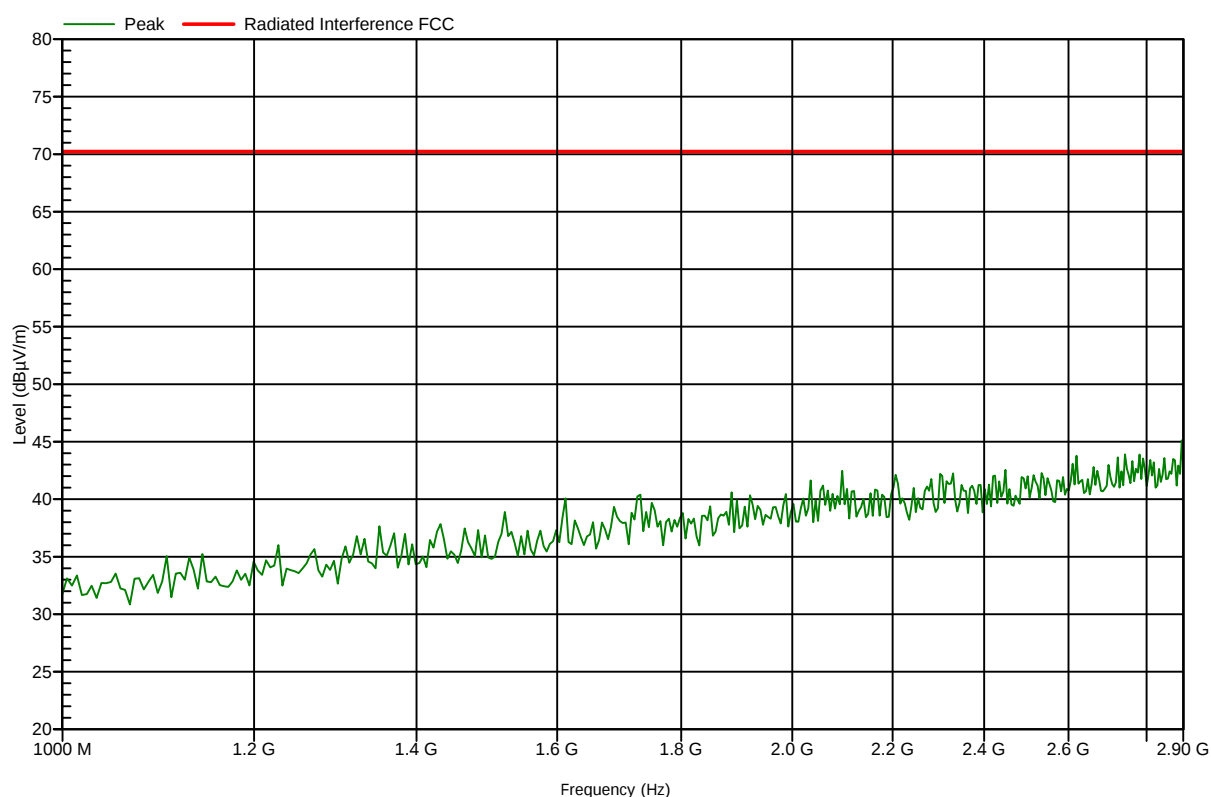
Test Results Plot No 51

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz-10 MHz High; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

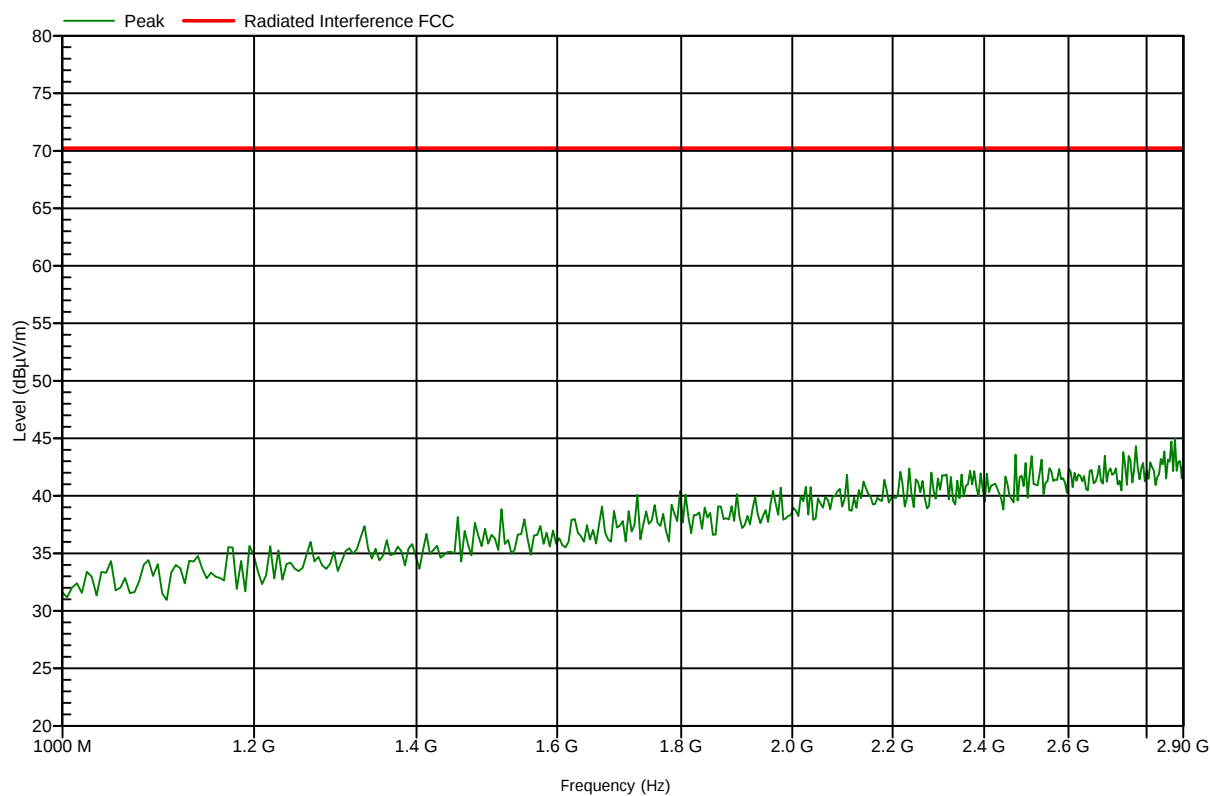
Test Results Plot No 52

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 20 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

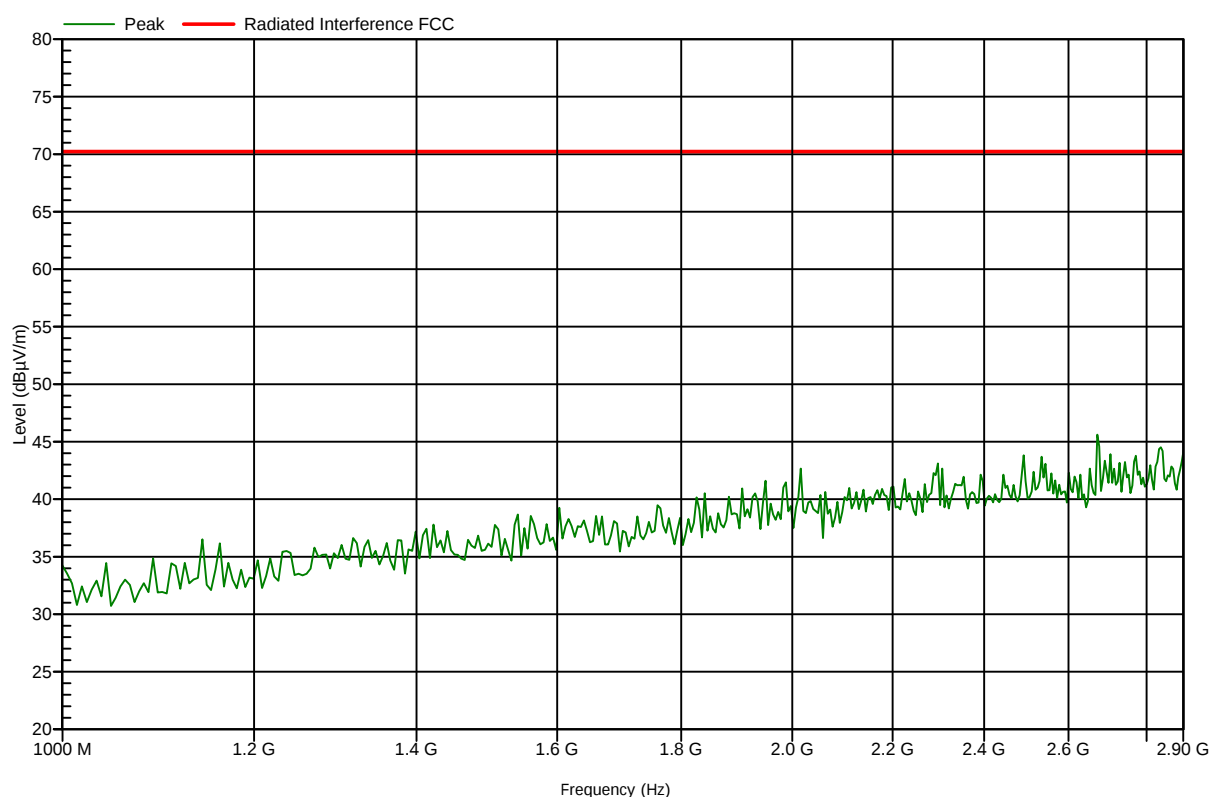
Test Results Plot No 53

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 20 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

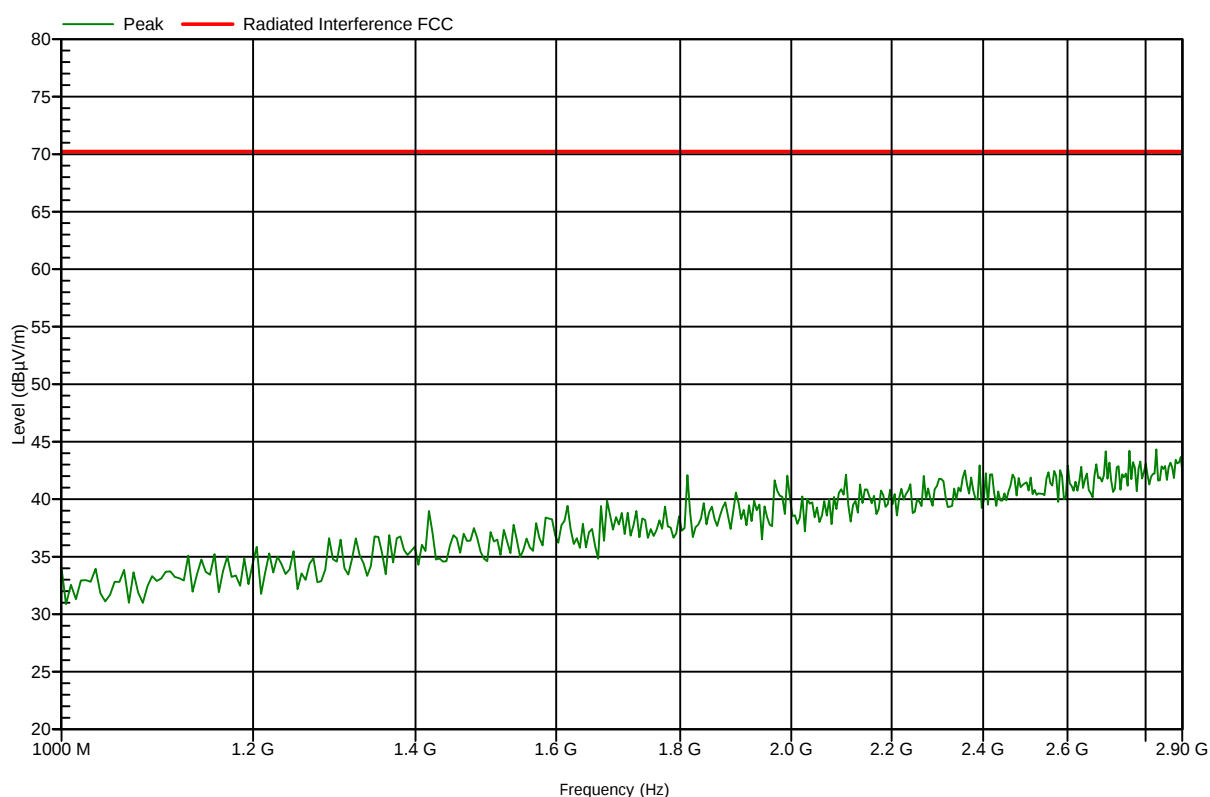
Test Results Plot No 54

FCC 90.210 1-2.9 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [10 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	pre amp 1GHz-4GHz

TEST REMARKS: Monday, March 19, 2012

1-2.9 GHz- 20 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

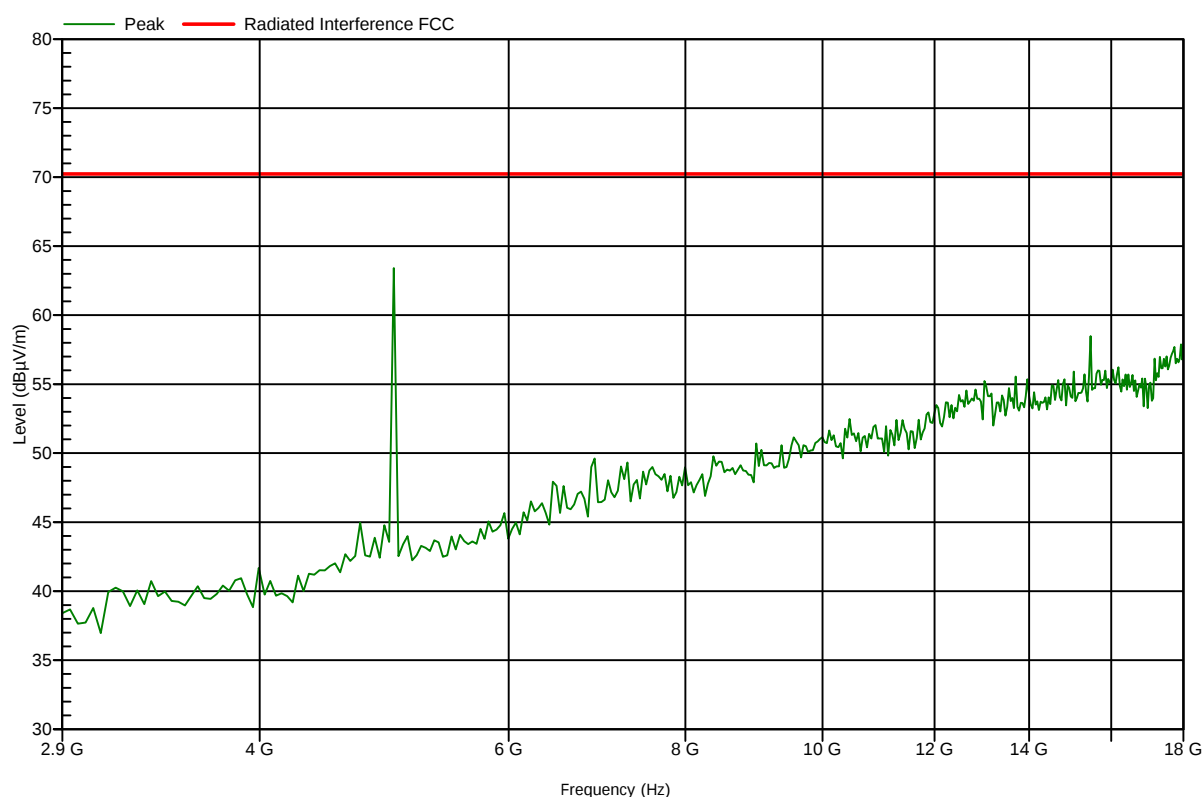
Test Results Plot No 55

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 5 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

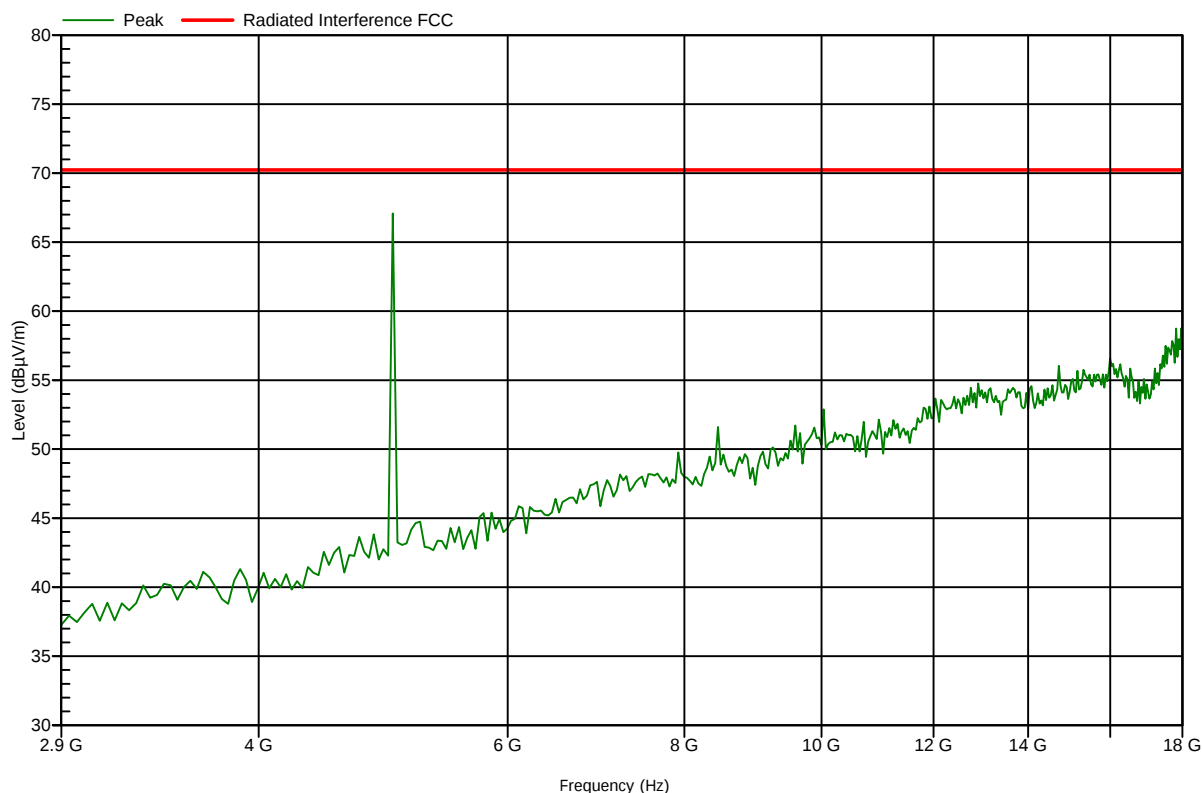
Test Results Plot No 56

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 5 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	4976.25	67.1	70.2		0	1	H

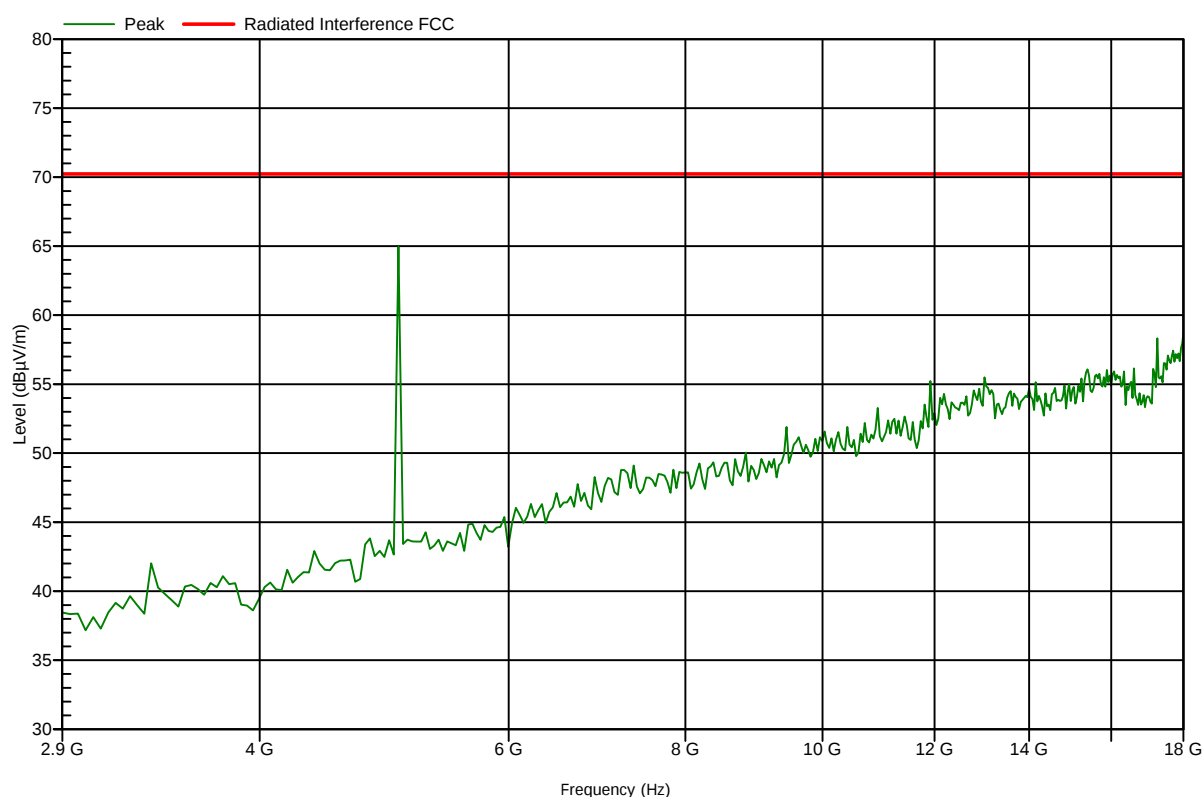
Test Results Plot No 57

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 5 MHz HIGH; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

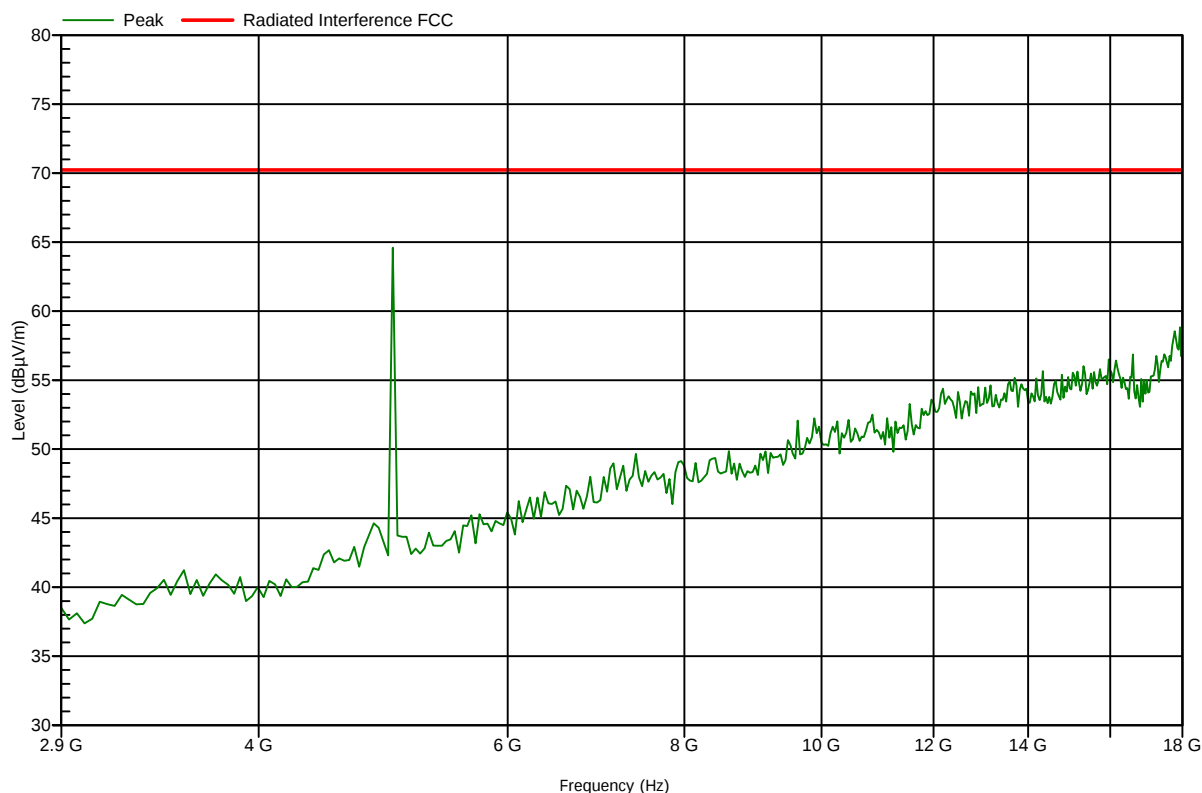
Test Results Plot No 58

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 10 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

Nr	Frequency (MHz)	PK MaxHold (dB μ V/m)	PK Limit (dB μ V/m)	Result	Angle (degrees)	Height (m)	H/V
1	4976.25	64.6	70.2		0	1	H

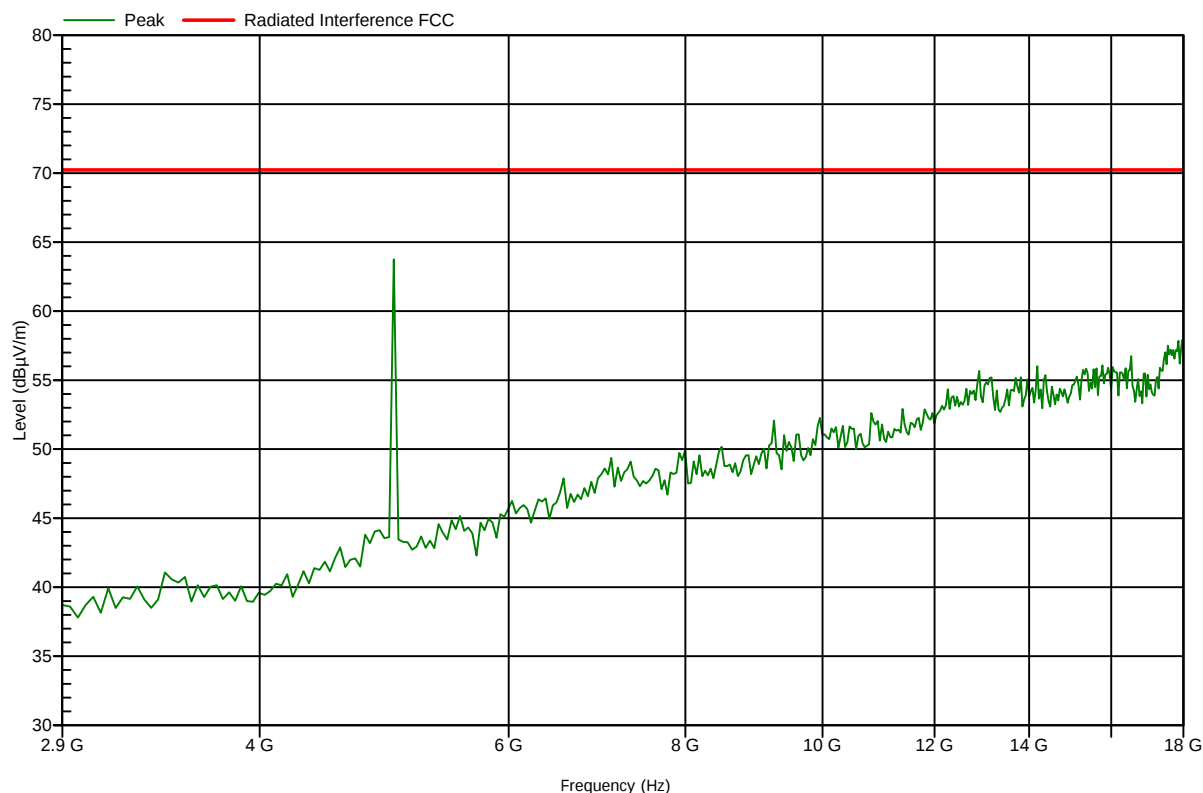
Test Results Plot No 59

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 10 MHz Mid; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

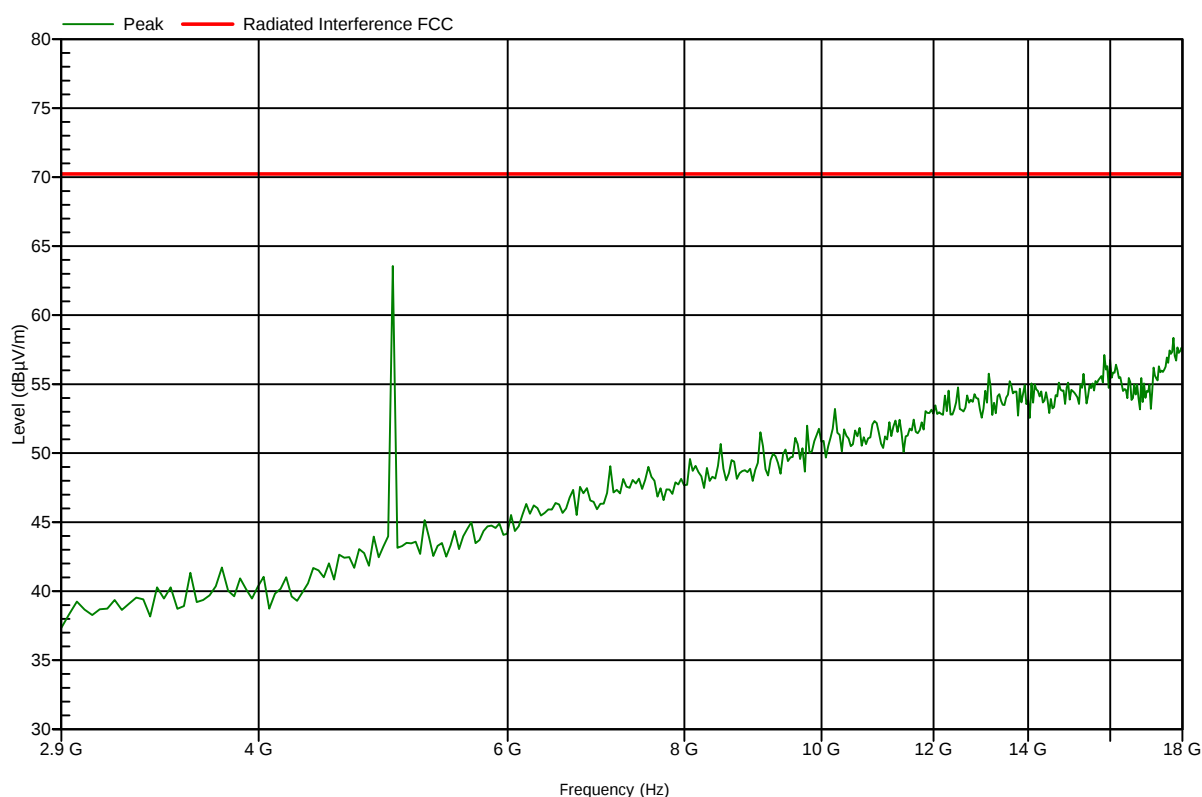
Test Results Plot No 60

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 10 MHz High; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

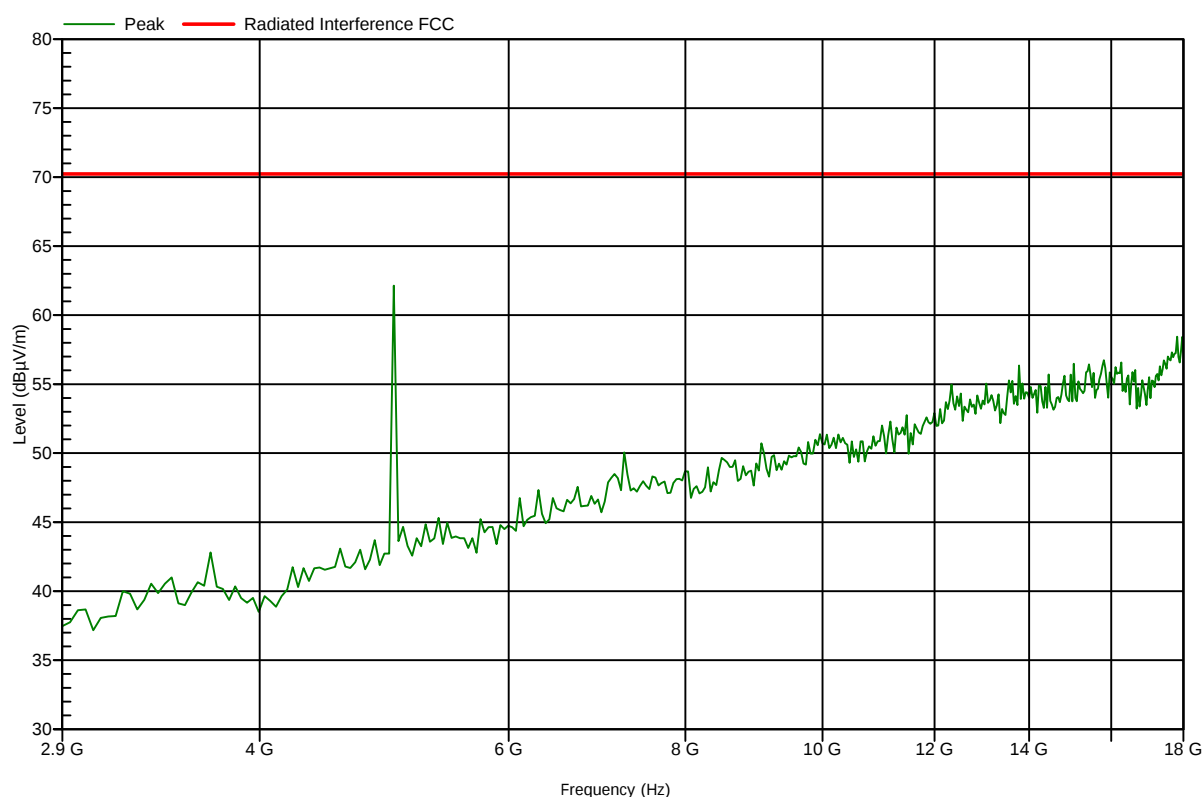
Test Results Plot No 61

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 20 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

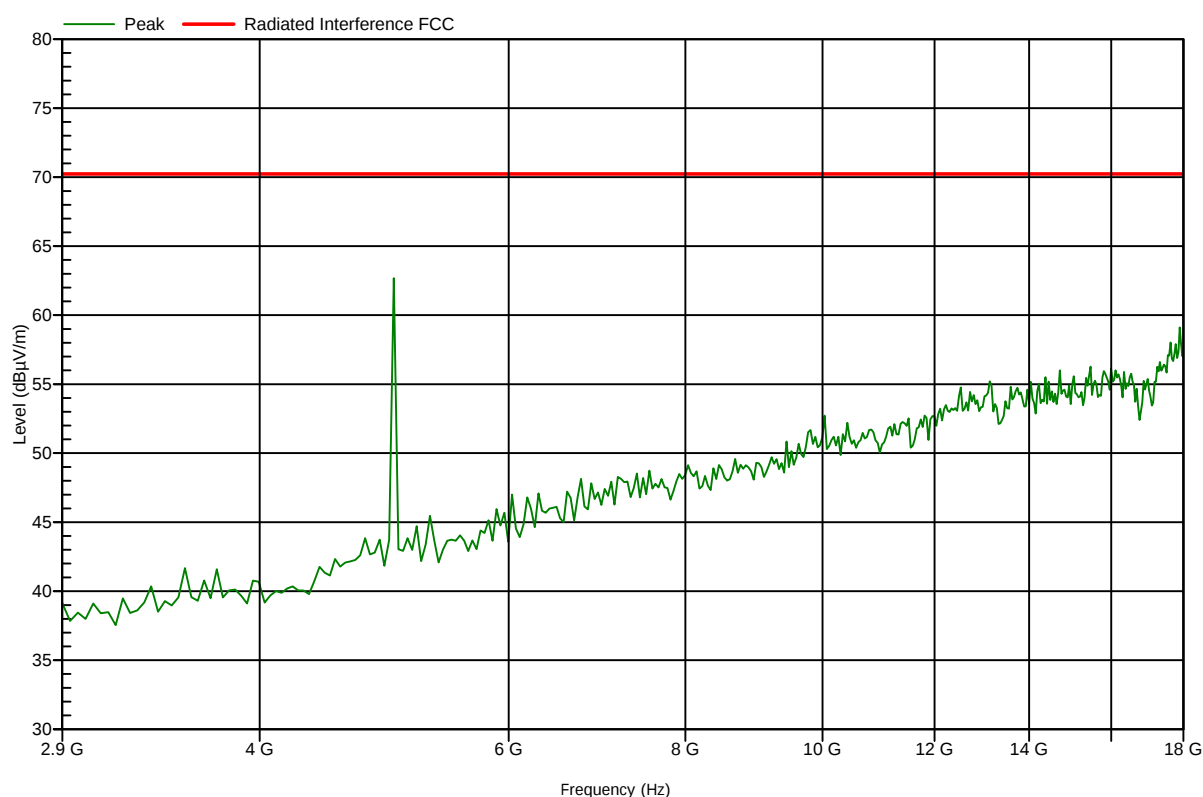
Test Results Plot No 62

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 20 MHz Mid; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

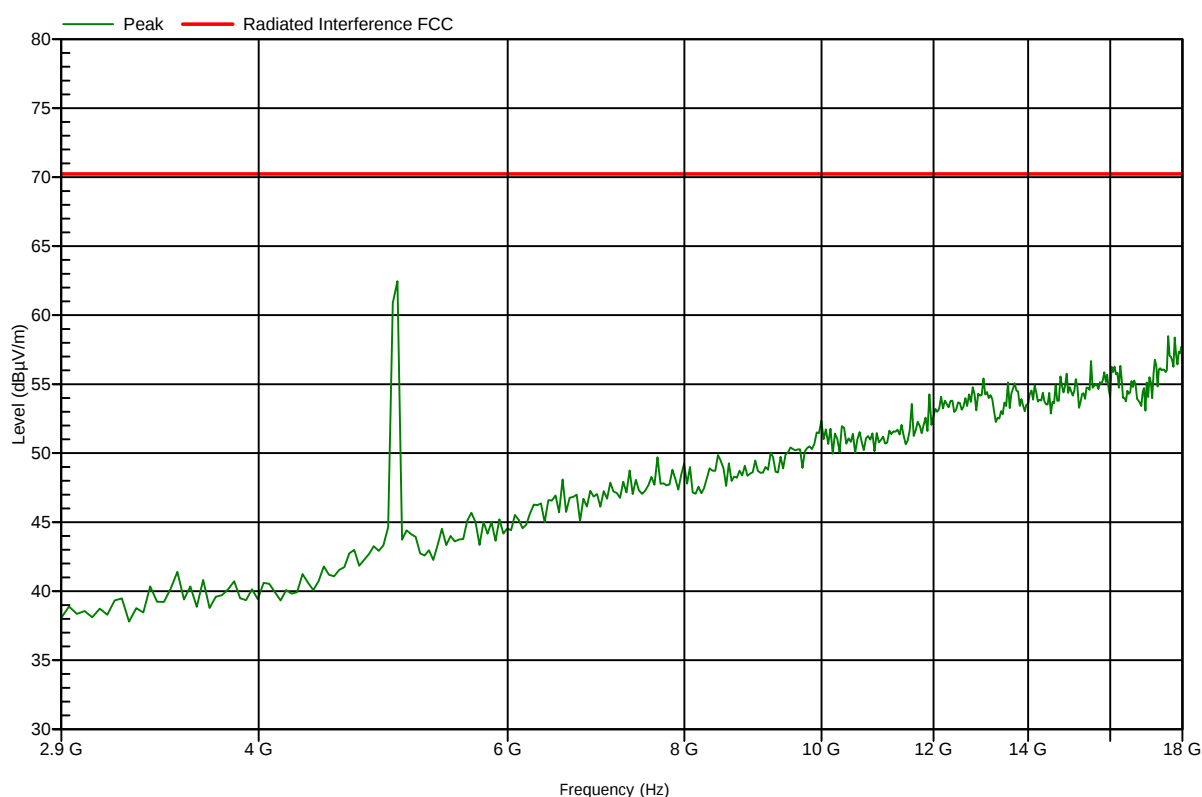
Test Results Plot No 63

FCC 90.210 2.9-18 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [75.5 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

2.9-18 GHz- 20 MHz HIGH; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

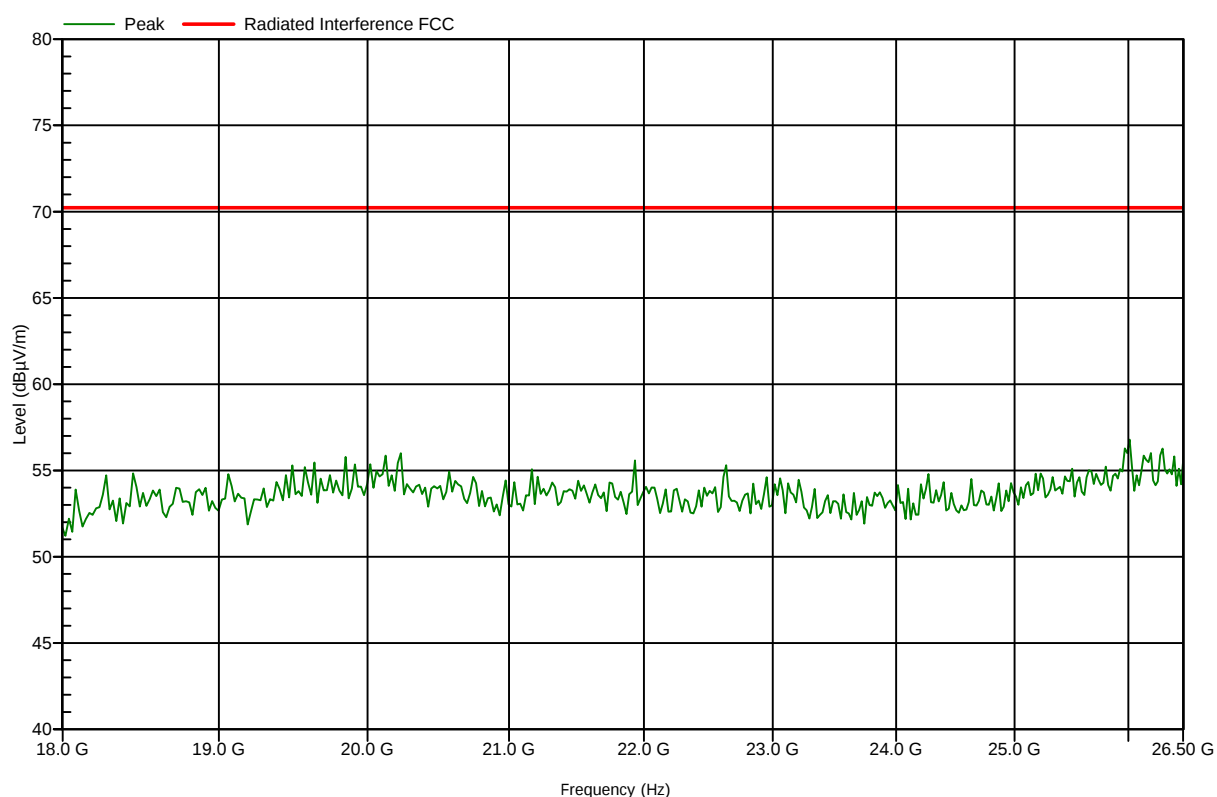
Test Results Plot No 64

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 5 MHz LOW; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

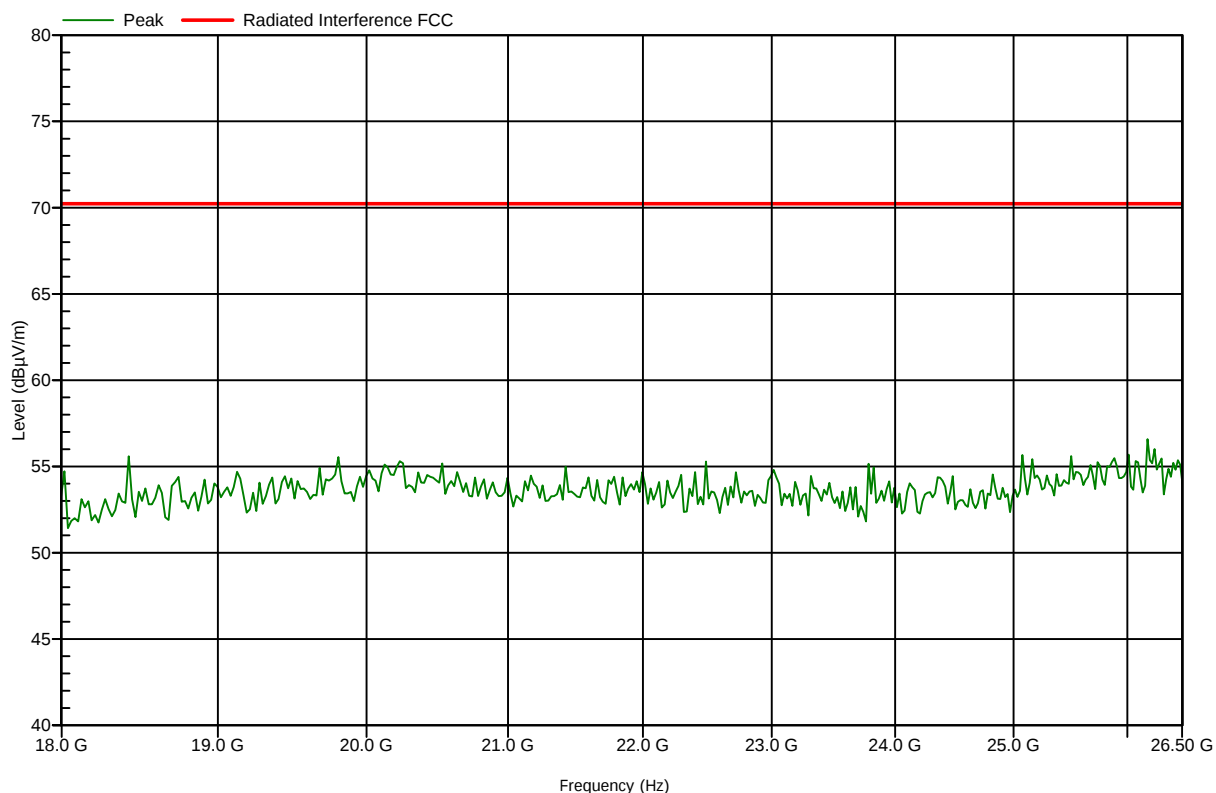
Test Results Plot No 65

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 5 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

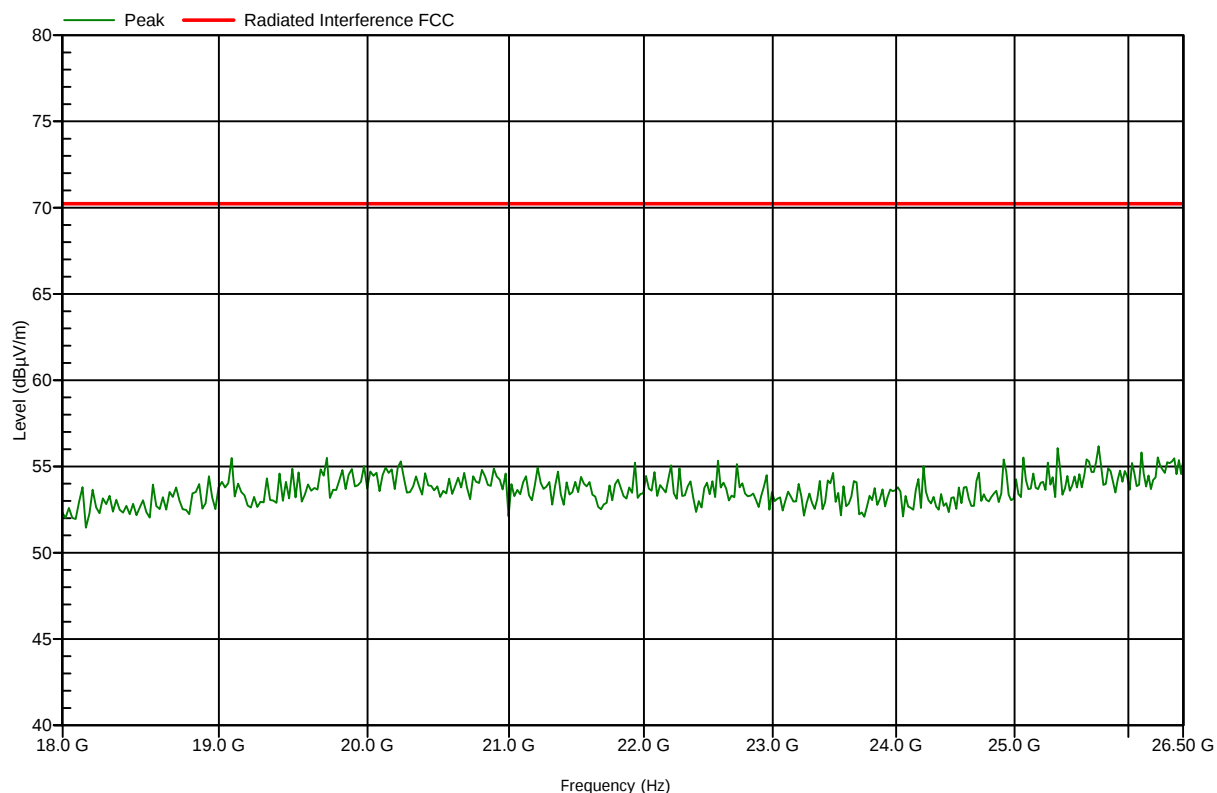
Test Results Plot No 66

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 5 MHz HIGH; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

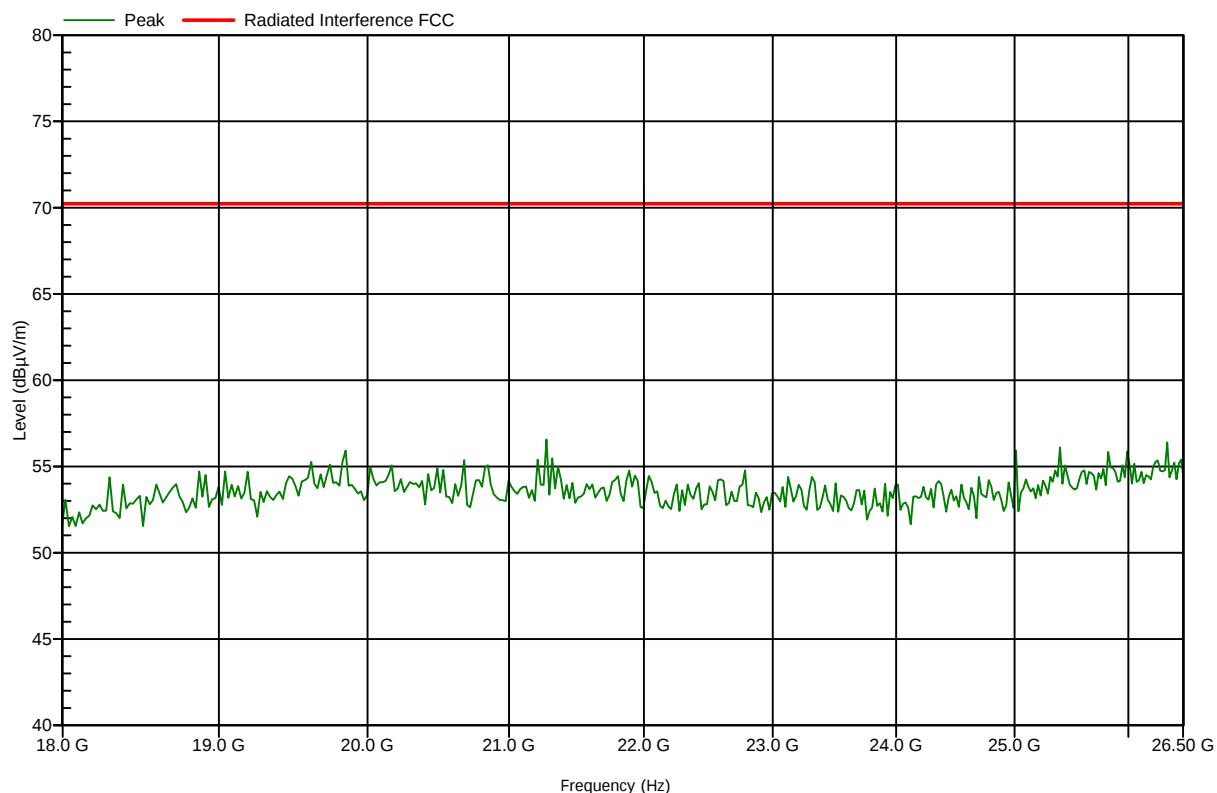
Test Results Plot No 67

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 10 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

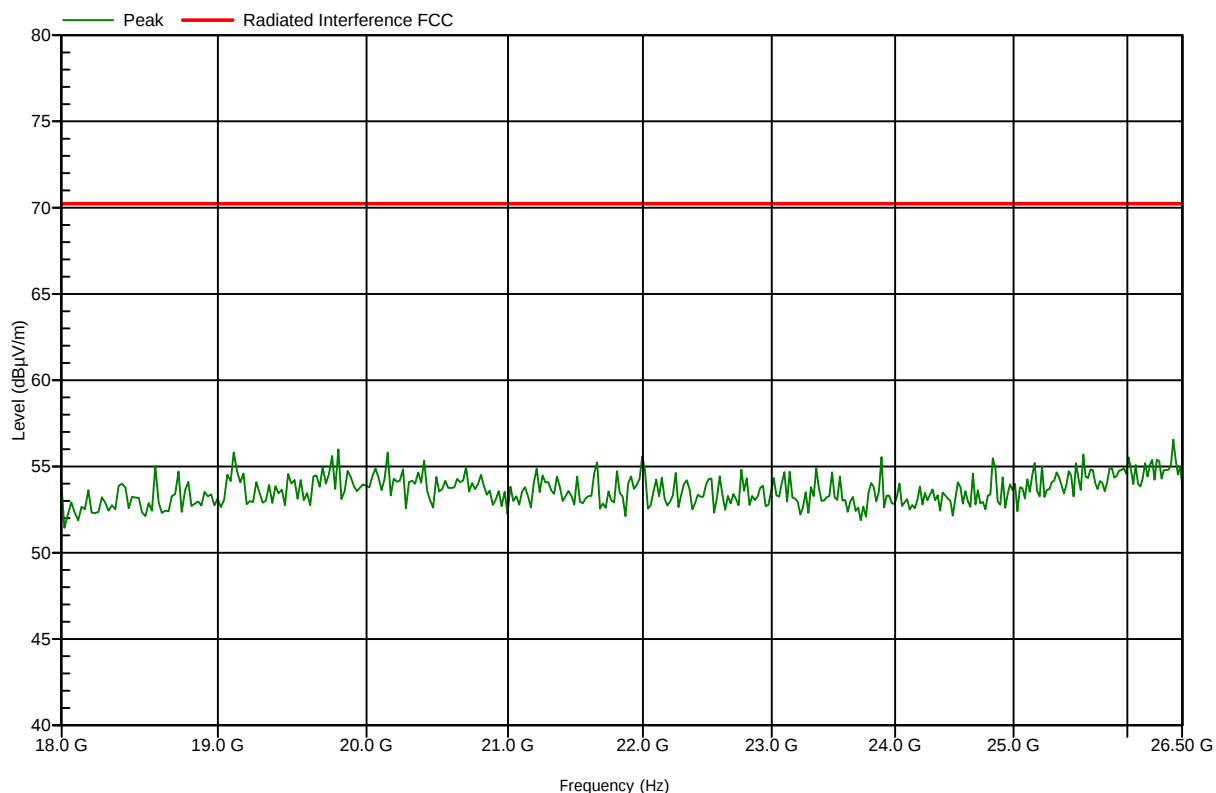
Test Results Plot No 68

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 10 MHz MID; 50 Ohm termination for both RF ports


MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

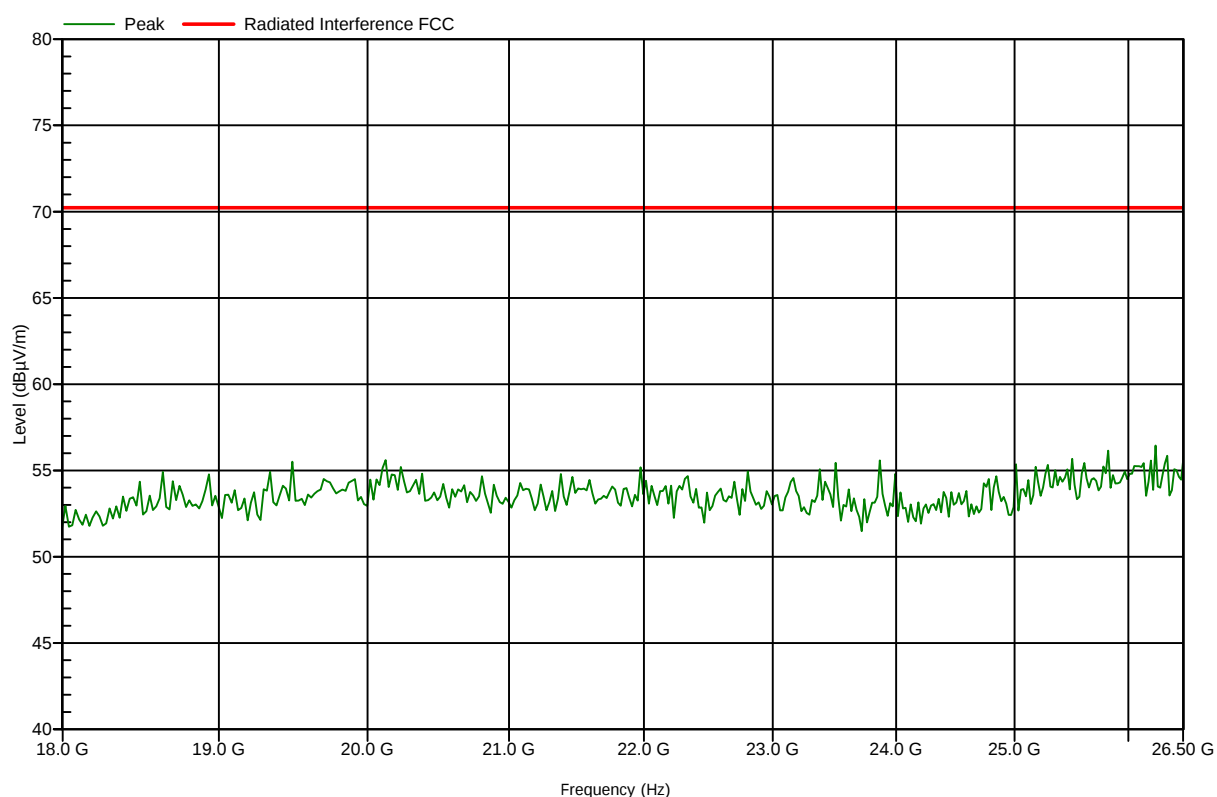
Test Results Plot No 69

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 10 MHz HIGH; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

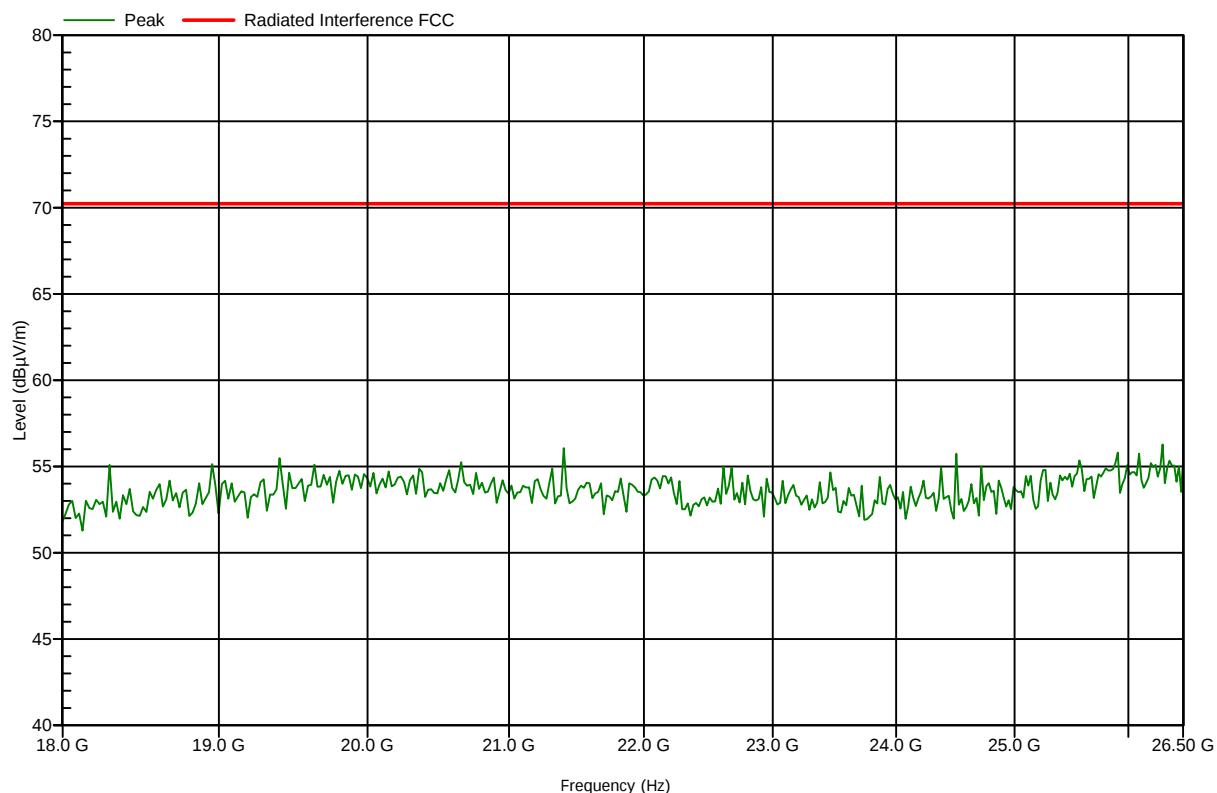
Test Results Plot No 70

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 20 MHz LOW; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

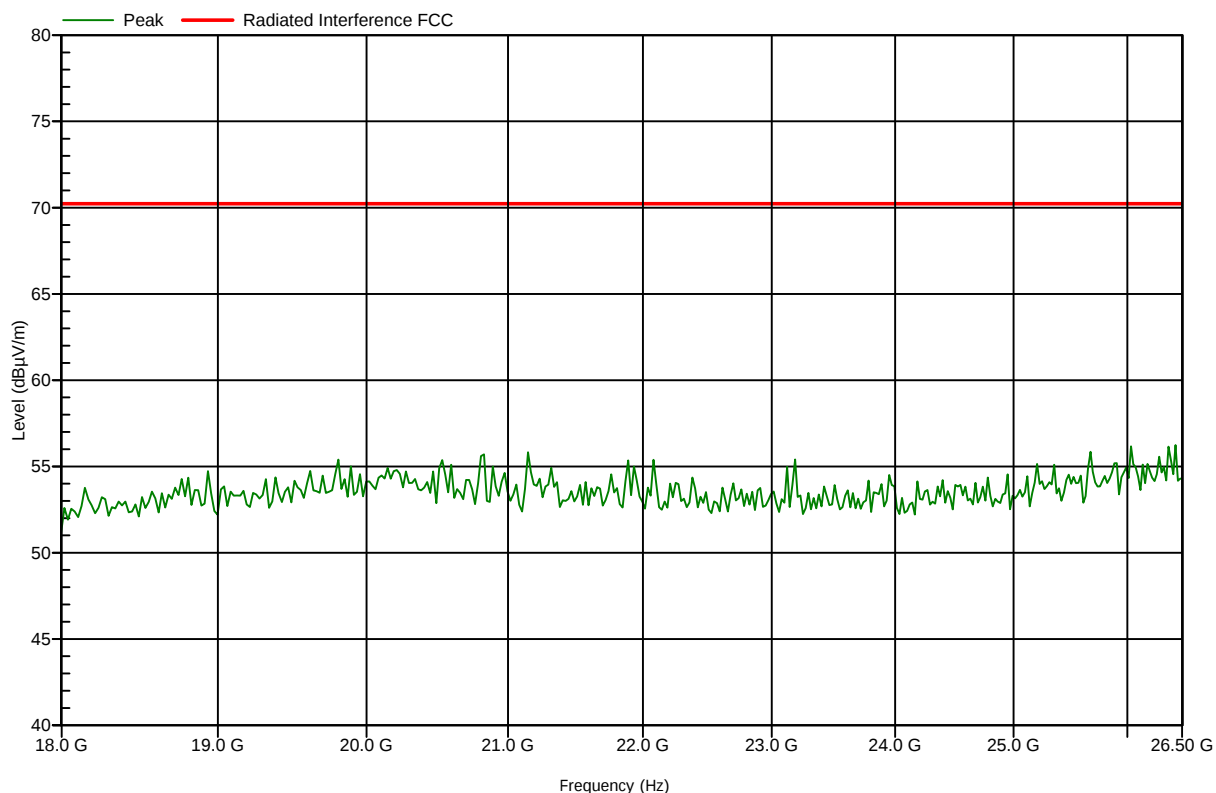
Test Results Plot No 71

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

18-26.5 GHz- 20 MHz MID; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None

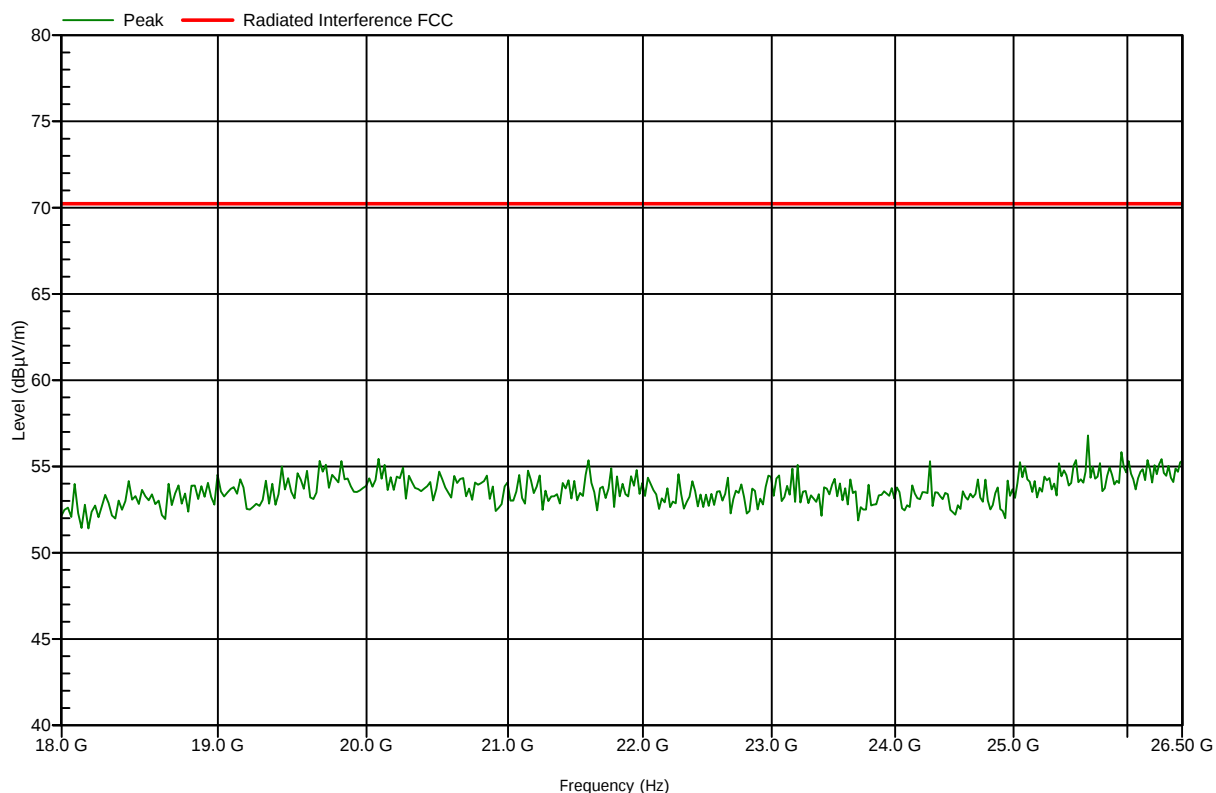
Test Results Plot No 72

FCC 90.210 18-26 GHz

Test & EUT General Information		Receiver Setting	
EUT Name:	WipAir – X 000-4.9 GHz	Spect Analyzer	Hewlett Packard 7405 AC coupling
S/N:	0050C2AC7CAC	Ref. Level:	90 dB μ V
Date of Test:	19.03.2012	RBW:	1000 kHz
Test Engineer:	Ilya Arbitman	VBW:	3 MHz
Antenna:	ARA DRG-118/A 1-18GHz 1319	Sweep Time:	Auto [85 ms]
Polarization:	Horizontal and Vertical	Pre Amplifier	PLANAR 2-18 GHz 40dB

TEST REMARKS: Monday, March 19, 2012

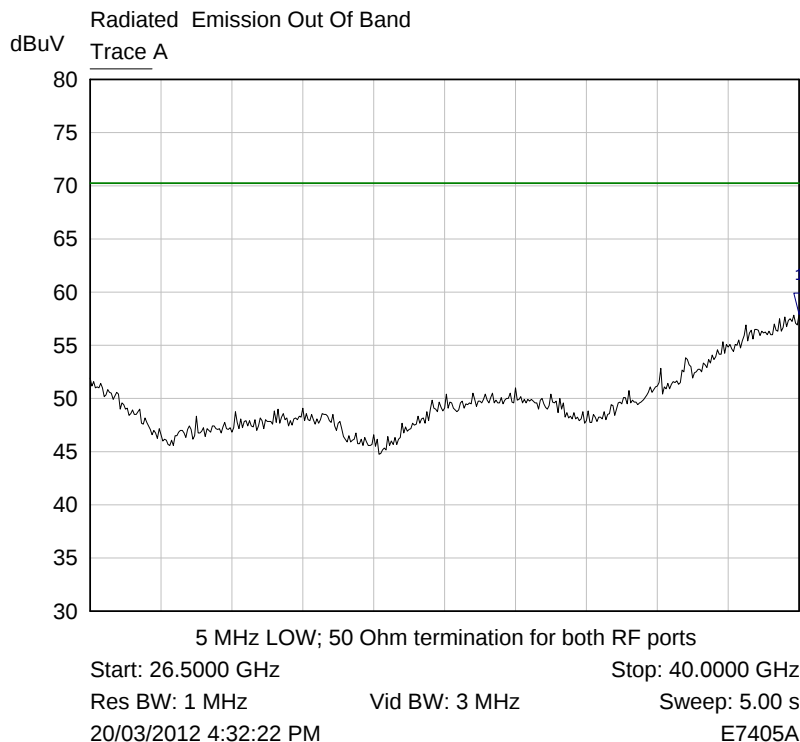
18-26.5 GHz- 20 MHz HIGH; 50 Ohm termination for both RF ports



MAXIMUM RESULT DEVIATION:

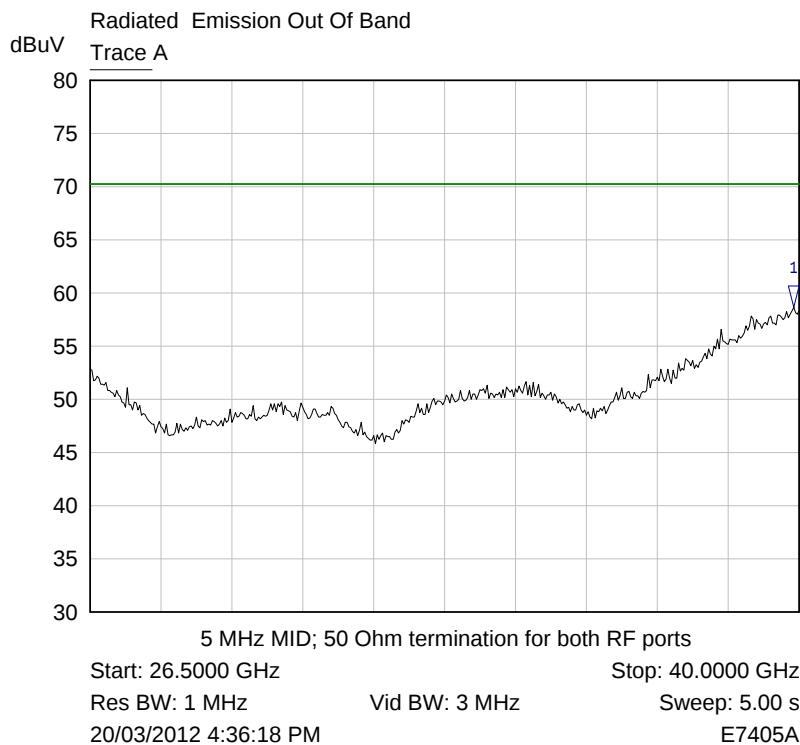
Detect all peaks above 6 dB below the limit line with a maximum of 6 peaks.

None



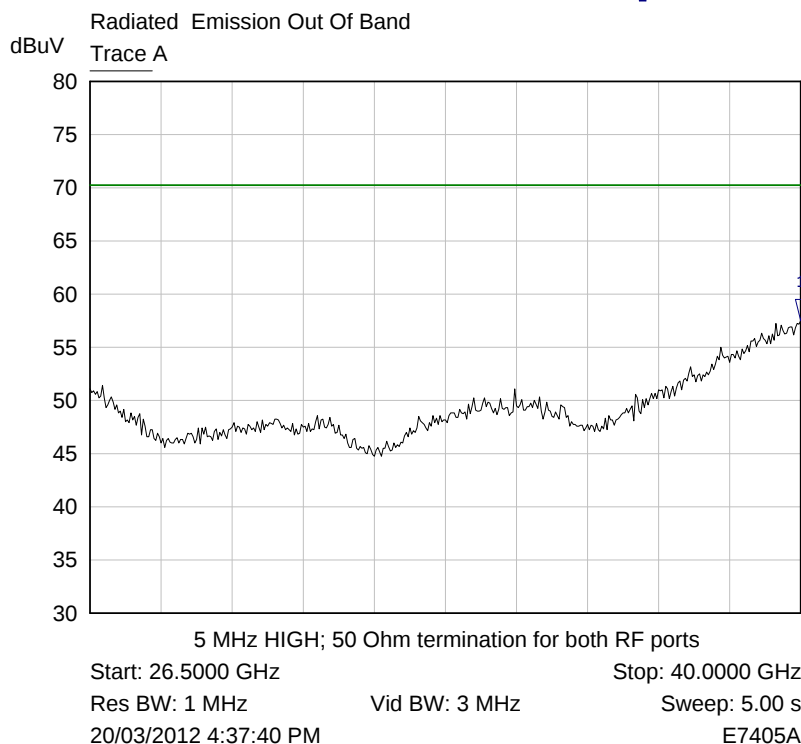
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.91 dBuV	Peak -V and H pol'

Test Results Plot No 73



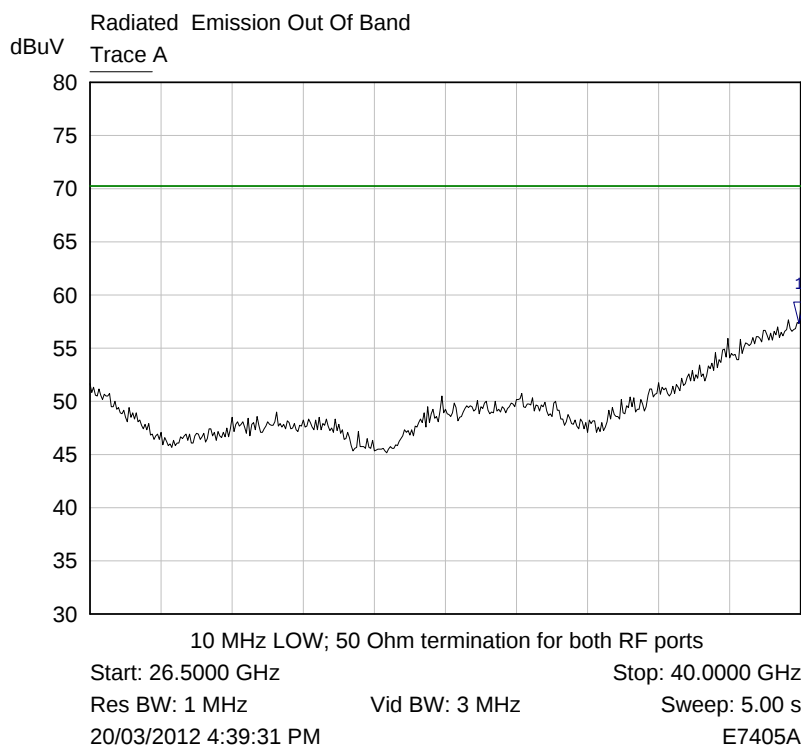
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8988 GHz	58.67 dBuV	Peak -V and H pol'

Test Results Plot No 74



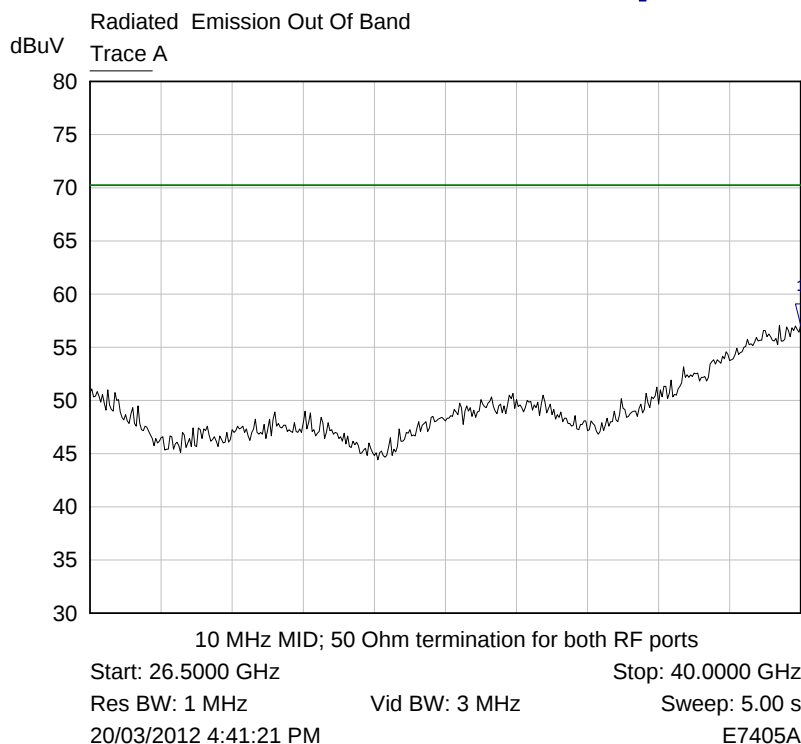
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.49 dBuV	Peak -V and H pol'

Test Results Plot No 75



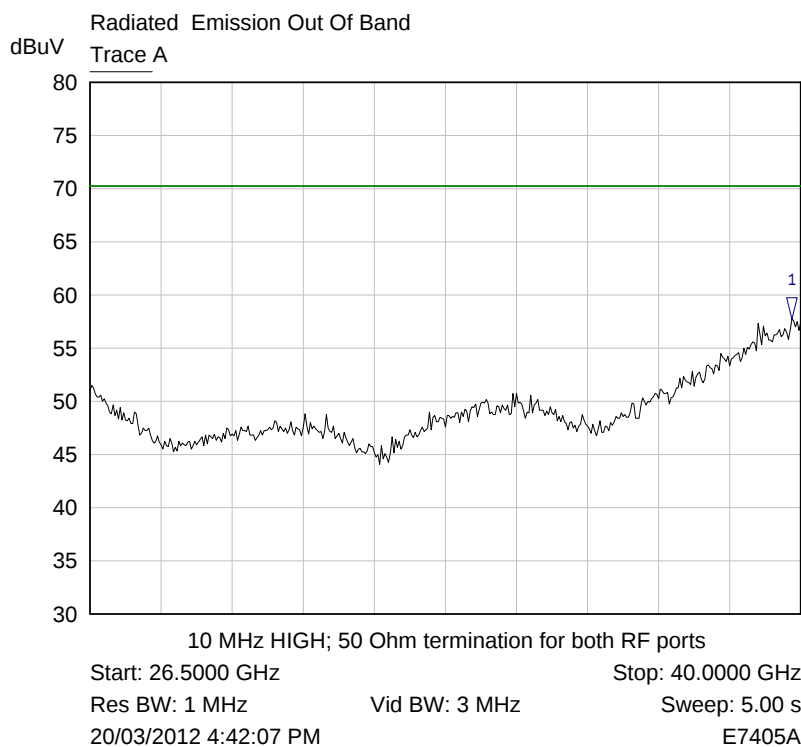
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.9663 GHz	57.31 dBuV	Peak -V and H pol'

Test Results Plot No 76



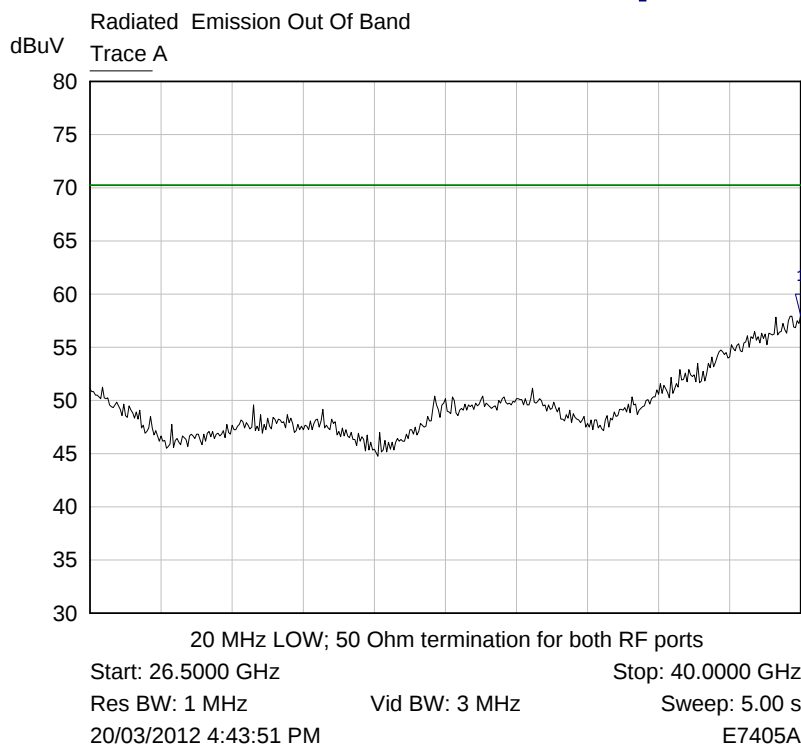
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	57.08 dBuV	Peak -V and H pol'

Test Results Plot No 77



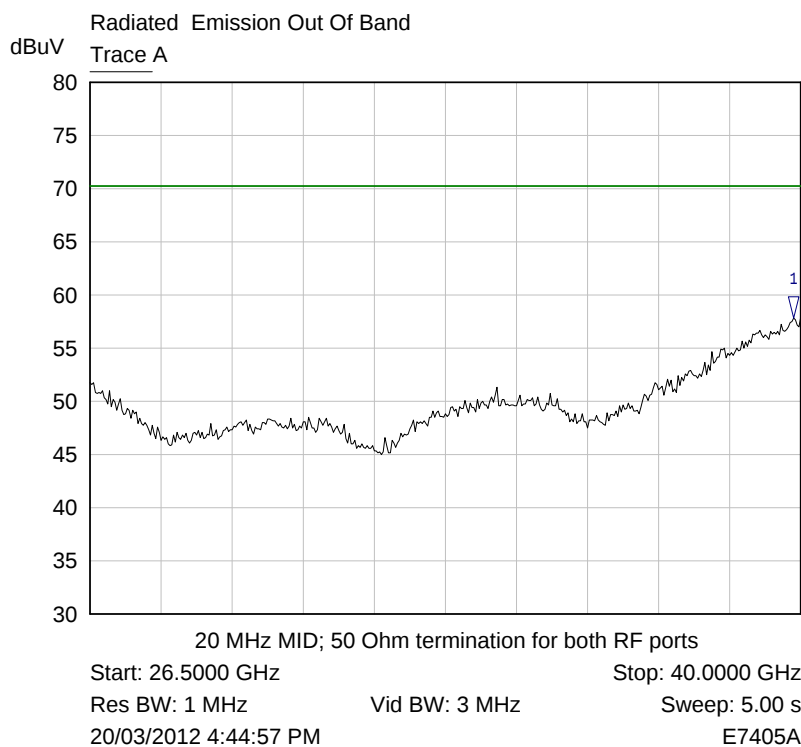
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	57.76 dBuV	Peak -V and H pol'

Test Results Plot No 78



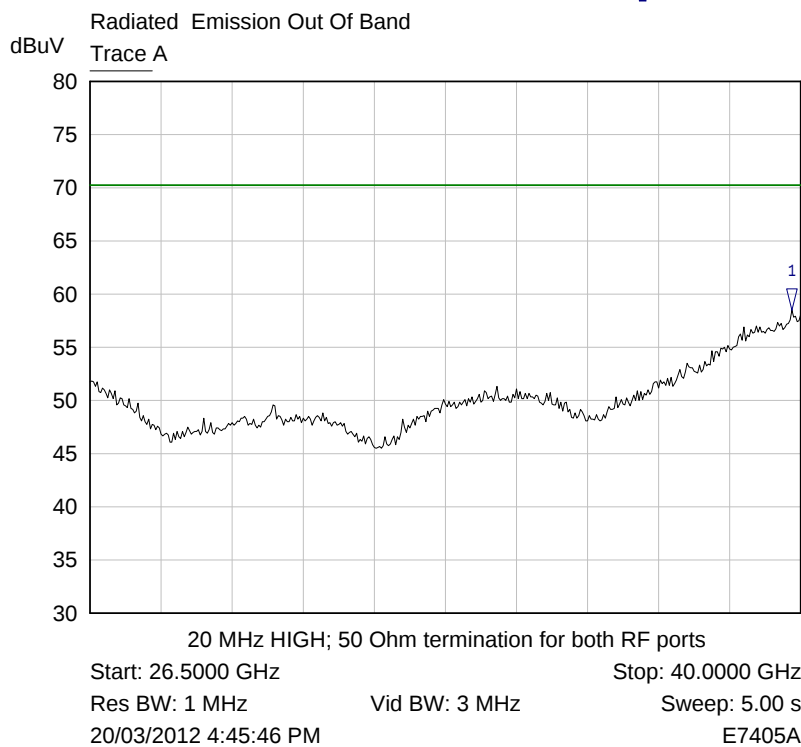
Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	40.0000 GHz	58.00 dBuV	Peak -V and H pol'

Test Results Plot No 79



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8650 GHz	57.81 dBuV	Peak -V and H pol'

Test Results Plot No 80



Mkr	Trace	X-Axis	Value	Notes
1 ▽	Trace A	39.8313 GHz	58.49 dBuV	Peak -V and H pol'

Test Results Plot No 81