



HP Restricted

HP Roseville Hardware Test Center
8000 Foothills Blvd.
Roseville, CA 95747-5603
916-785-5509

WORK ORDER NUMBER(S) 030641 Amendment 2 (See history on page 5)

TEST NAME RADIO INTERFERENCE

REGULATION/STANDARD EN55022, CISPR22, ETSI EN 300 386 & CFR47 part 15
Class B
N/A

DATE(S) TEST PERFORMED Aug 07, 2007

PROJECT NAME(S) VX670

REGULATORY MODEL NA

CPL NUMBER(S) M267-512-11-EUC

SERIAL NUMBER(S) 300-231-232, 300-231-228

CLIENT NAME SHERMON HALL

CLIENT DIVISION VERIFONE

CLIENT ADDRESS 3755 Atherthon Road, Rocklin, CA. 95765

TECHNICIAN(S) Jordan Tsang

RECORD AUTHOR Jordan Tsang

APPROVED BY: APPROVED
By David Bernal at 12:33 pm, 10/5/07

Name
RHTC Process Engineer



TEST OBJECTIVE/PURPOSE:

To determine if the EUT meets the radio disturbance levels (emissions) established by EN55022, CISPR22, , ETSI EN 300 386 & CFR47 part 15 Class A.
The EUT was tested at 10 meters.

There were (4) tests performed.

RESULTS :

The EUT(s) **met** the EN55022, CISPR22, ETSI EN 300 386 & CFR47 part 15 Class B requirements.

Tested at 230V/50Hz only as customer requested.

EUT VX670_300-231-232_1 - Radiated Disturbance passed by 4.6 dB
EUT VX670_300-231-228_2 - Radiated Disturbance passed by 9.8 dB
EUT VX670_300-231-228_3 - Radiated Disturbance passed by 8.5 dB
EUT VX670_300-231-228_4 - Radiated Disturbance passed by 8.6 dB

EUT VX670_300-231-232_1 - Conducted Disturbance passed by 12.7 dB
EUT VX670_300-231-228_2 - Conducted Disturbance passed by 27.9 dB
EUT VX670_300-231-228_3 - Conducted Disturbance passed by 29 dB
EUT VX670_300-231-228_4 - Conducted Disturbance passed by 28.6 dB

OPERATIONAL CONDITIONS:

During the product development evaluation phases worst case emission conditions using different card configurations, module location and cable placement are evaluated. Once determined the defined configuration and cable placement is used throughout the testing process.

TEST DESCRIPTION/PROCEDURE:

Conducted disturbance at the mains ports

OVERVIEW: This test uses the spectrum analyzer to measure the interference voltage over the frequency range specified by the regulatory agency on the EUTs supply mains leads. For this test the spectrum analyzer is connected to the Line Impedance Stabilization Network (LISN), which is inserted in the EUTs supply mains leads. The LISN is connected to line voltage for 120/208V 60 Hz testing and an AC Power Source for 230V 50 HZ testing. This test is outlined in detail in the RHTC Test Procedure – “Conducted Emissions”.

TEST Outline:

Scanned LINE and NEUTRAL, performed QP and AVG on highest signals. For table-top products a portable vertical wall is used for measuring emission for CISPR 22 and CNS 13438.

Conducted disturbance Telecommunications ports

OVERVIEW: This test uses the spectrum analyzer to measure the interference voltage/current over the frequency range specified by the regulatory agency on the EUTs signal cables. For this test the spectrum analyzer is connected to the Current clamp or Capacitive Voltage Probe, which is placed around the signal cables individually and as a group. This test is outlined in detail in the RHTC Test Procedure – “Conducted Emissions Telcom”.

TEST Outline:

Scan single unshielded cable using Current Clamp and TLISN configured as an IEC 61000-4-6 CDN (use either the 80/55 or thru adapter), scan single shielded cable with shield terminated with 150 ohms 80 cm from EUT (Ferrite – FCC-945524-CT on AE side), averaged emissions if within 3 dB of limit. For table top products the TLISN/Current clamp is attached to the portable vertical wall which was placed 40 cm from the EUT.

Radiated disturbance

OVERVIEW: This test measures the radiated emissions of products from 30MHz to 1000MHz, as required, using the spectrum analyzer with a broadband receiving antenna and a Double Ridged Waveguide Horn antenna as required.. This test was performed entirely in a 10 M Semi-Anechoic Chamber that meets the Normalized Site Attenuation specifications of ANSI C63.4. The emission levels were measured on 8 sides in vertical and horizontal antenna polarities.

As a minimum, all peak frequency emissions within 6 dB of the limit were maximized using the turntable/antenna positioners then measured using the required detector (QP or AVG).

This test is outlined in detail in the RHTC Test Procedure – “Radiated Emissions – 10m Chamber”.

TEST Outline:

Placed the EUT on the turntable, then performed the prescan and final tests using the Radiated Emissions (RE) software.

CE_FINALTEST_FINAL_N.DAT								
Project Name: VX670, Serial Number: 300-231-232								
Test completed on 07 Aug, 2007 at 09:01:01.								
230 Volts AC @ 50 Hz,1-Phase Power								
N/R Deg C,N/R % RH,N/R kPa								
Measured Corrected Freq (MHz)	Measured Value (dBuV(A)	Correction	Measured Corrected Value (dBuV(A)	Margin (dB)	Detector	Phase	Limit	Notes
14.9232	26.3	11	37.3	12.7	AVG	NTRL	50	
14.3884	25.1	11	36.1	13.9	AVG	NTRL	50	
14.3706	24.9	11	35.9	14.1	AVG	NTRL	50	
9.9131	22.3	10.8	33.1	16.9	AVG	LINE1	50	
14.4419	31.0	11	42.0	18	QP	NTRL	60	
10.5608	20.9	10.9	31.8	18.2	AVG	LINE1	50	
8.9365	19.6	10.7	30.3	19.7	AVG	LINE1	50	
9.6441	19.3	10.8	30.1	19.9	AVG	NTRL	50	
8.9374	19.0	10.7	29.7	20.3	AVG	LINE1	50	
9.9839	28.6	10.8	39.4	20.6	QP	LINE1	60	
8.5702	28.0	10.8	38.8	21.2	QP	LINE1	60	
9.6568	18.0	10.8	28.8	21.2	AVG	LINE1	50	
0.1430	22.4	11.7	34.1	21.9	AVG	LINE1	56	
10.0479	27.0	10.8	37.8	22.2	QP	LINE1	60	
10.5589	27.0	10.8	37.8	22.2	QP	LINE1	60	

CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:01:01.

230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

Measured Corrected Freq (MHz)	Measured Value (dBuV(A))	Correction	Measured Corrected Value (dBuV(A))	Margin (dB)	Detector	Phase	Limit	Notes
6.9222	21.4	10.7	32.1	27.9	AVG	NTRL	60	
7.0119	21.1	10.7	31.8	28.2	AVG	NTRL	60	
7.6595	19.1	10.8	29.9	30.1	AVG	NTRL	60	
6.0489	19.1	10.6	29.7	30.3	AVG	LINE1	60	
8.1486	17.8	10.7	28.5	31.5	AVG	LINE1	60	
0.4767	24.0	10.4	34.4	31.6	AVG	NTRL	66	
6.9681	16.9	10.7	27.6	32.4	AVG	LINE1	60	
6.3922	16.9	10.7	27.6	32.4	AVG	NTRL	60	
7.0131	29.5	10.7	40.2	32.8	QP	NTRL	73	
6.9210	29.4	10.6	40.0	33	QP	NTRL	73	
7.0044	28.8	10.7	39.5	33.5	QP	LINE1	73	
6.2727	28.1	10.7	38.8	34.2	QP	NTRL	73	
7.7284	27.9	10.8	38.7	34.3	QP	NTRL	73	
6.2297	27.9	10.7	38.6	34.4	QP	LINE1	73	
7.8637	27.7	10.7	38.4	34.6	QP	LINE1	73	

CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:31:31.

230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

Measured Corrected Freq (MHz)	Measured Value (dBuV(A))	Correction	Measured Corrected Value (dBuV(A))	Margin (dB)	Detector	Phase	Limit	Notes
7.5566	20.2	10.8	31.0	29	AVG	LINE1	60	
8.1771	20.3	10.7	31.0	29	AVG	LINE1	60	
7.5413	20.1	10.7	30.8	29.2	AVG	LINE1	60	
6.9213	20.0	10.7	30.7	29.3	AVG	NTRL	60	
6.9589	19.9	10.7	30.6	29.4	AVG	LINE1	60	
8.2313	19.3	10.7	30.0	30	AVG	NTRL	60	
7.0558	19.1	10.7	29.8	30.2	AVG	LINE1	60	
7.5728	28.5	10.7	39.2	33.8	QP	LINE1	73	
7.5677	28.4	10.7	39.1	33.9	QP	NTRL	73	
6.9506	28.3	10.7	39.0	34	QP	LINE1	73	
6.9318	28.1	10.7	38.8	34.2	QP	NTRL	73	
6.9045	28.0	10.7	38.7	34.3	QP	LINE1	73	
7.4798	14.8	10.7	25.5	34.5	AVG	NTRL	60	
7.0135	27.5	10.7	38.2	34.8	QP	LINE1	73	
0.1456	19.3	11.6	30.9	35.1	AVG	NTRL	66	

CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 11:14:14.

230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

Measured Corrected Freq (MHz)	Measured Value (dBuV(A))	Correction	Measured Corrected Value (dBuV(A))	Margin (dB)	Detector	Phase	Limit	Notes
7.5592	20.7	10.7	31.4	28.6	AVG	LINE1	60	
6.9191	20.0	10.7	30.7	29.3	AVG	NTRL	60	
7.6481	19.9	10.8	30.7	29.3	AVG	NTRL	60	
6.9638	19.5	10.7	30.2	29.8	AVG	LINE1	60	
8.2299	19.3	10.8	30.1	29.9	AVG	LINE1	60	
8.1728	19.3	10.8	30.1	29.9	AVG	LINE1	60	
7.4926	19.4	10.7	30.1	29.9	AVG	NTRL	60	
8.7388	17.5	10.7	28.2	31.8	AVG	LINE1	60	
7.5575	28.4	10.7	39.1	33.9	QP	NTRL	73	
7.5200	28.3	10.7	39.0	34	QP	LINE1	73	
6.9055	28.0	10.7	38.7	34.3	QP	LINE1	73	
7.6293	27.9	10.7	38.6	34.4	QP	LINE1	73	
7.6643	27.7	10.8	38.5	34.5	QP	NTRL	73	
8.2397	27.6	10.8	38.4	34.6	QP	LINE1	73	
6.9889	27.8	10.6	38.4	34.6	QP	NTRL	73	

AMENDMENT HISTORY: Changed model number from M267-512-11-EUC to M267-562-11-EUC on page 1 & 3 and from Test data to full Test report with signature. Added customer's configuration note below at the EUT Description/System configuration section.

OPINIONS and INTERPRETATIONS: None

MODIFICATIONS: None

EQUIPMENT UNDER TEST DESCRIPTION/SYSTEM CONFIGURATION:

The diagnostic software "EMI Software" forces the unit to print continuously and Tx/Rx on RS232 with a loopback. The Bluetooth radio (EZURIO LTD:BISMS02BI-NA) is continuously on and is not software controlled. By default the radio is on when the power is applied and boots in "Boot Mode 1" (see Ezurio Specification DSH_BT024-00200_1v11 Page 12, section 7.6 "Boot Modes") with the following parameters:

Output Power	Class 1
Frequency	2.400 - 2.485 GHz
Max Transmit Power	+6dBm
Data Transfer rate	Up to 300Kbps

Project Name	VX670
Model Number	M267-562-11-EUC
Serial Number	300-231-232
EUT Description	BLUETOOTH HANDHELD POS
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	SELF CONTAINED PROGRAM
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	230 Volts AC @ 50 Hz,1-Phase Power, 23.3 Deg C,45.0 % RH,99.5 kPa

Project Name	VX670
Model Number	M267-562-11-EUC
Serial Number	300-231-228
EUT Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	230 Volts AC @ 50 Hz,1-Phase Power, 23.3 Deg C,45.0 % RH,99.5 kPa

Project Name	VX670
Model Number	M267-562-11-EUC
Serial Number	300-231-228
EUT Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	230 Volts AC @ 50 Hz,1-Phase Power, 23.3 Deg C,44.0 % RH,99.5 kPa

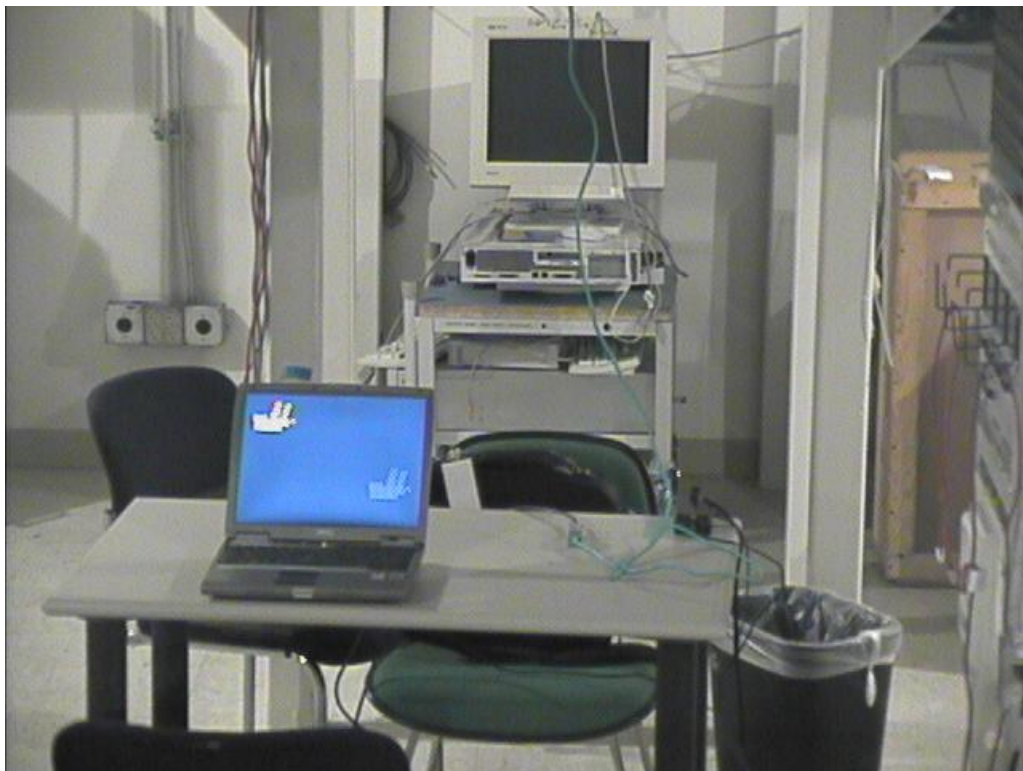
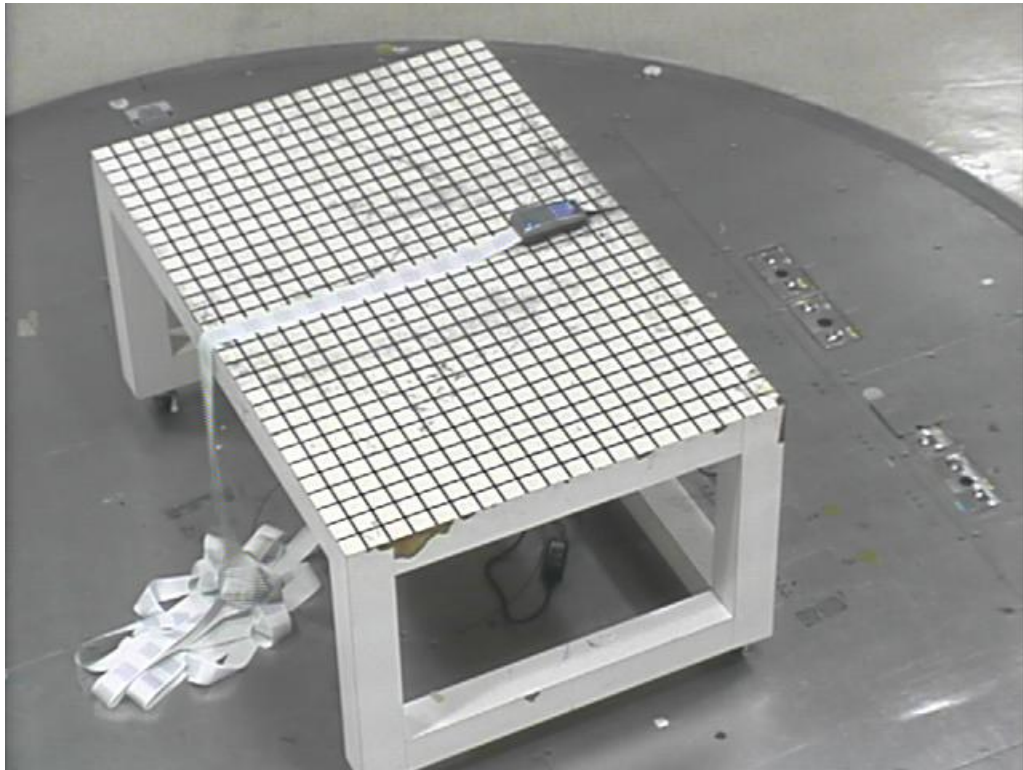
Project Name	VX670
Model Number	M267-562-11-EUC
Serial Number	300-231-228
EUT Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	230 Volts AC @ 50 Hz,1-Phase Power, 22.2 Deg C,44.0 % RH,99.5 kPa

EUT Support Equipment:

Product	Model	Ser. No.	Description
LAPTOP	D600	N/A	DELL PC
VERIFONE	23185-01-R REV A	N/A	MULTI-PORT CABLE
VERIFONE	24224-01-R REV A	N/A	POWER ADAPTOR CABLE
VERIFONE	24799-01-R	001	MULTI-PORT CABLE
VERIFONE	24799-01-R	002	MULTI-PORT CABLE
VERIFONE	CSP11224-3B-R	N/A	MODEL # AU-79A0N POWER BRICK

EUT/System Diagram:
See pictures for details.

EUT/System Pictures Radiated emissions & Conducted emissions without Vertical wall
Front View



RHTC TEST AND MEASUREMENT EQUIPMENT:

RHTC TEST AND MEASUREMENT EQUIPMENT:				
10 M Radiated	Model	Manufacturer	Ser. No.	Cal Due
10 M. Semi-ane. Chamber	None	Lindgren/TDK	None	18 Aug 2007
EMI Receiver	85462A	Hewlett Packard	3325A00115(East)	20Feb 2008
EMI Receiver Filter Section	85460A	Hewlett Packard	3330A00118(East)	20 Feb 2008
EMI Receiver	85462A	Hewlett Packard	3339A00056(West)	20 Feb 2008
EMI Receiver Filter Section	85460A	Hewlett Packard	3704A00397(West)	20 Feb 2008
EMI Receiver	E4446A	Agilent	US42070192	Out for Cal
Antenna array 1 to 40GHz	40G BOM	UL	None	20 Sept 2007
Bi-Log Antenna	CBL6112A	Chase	2171 (East)	12 April 2009
Bi-Log Antenna	CBL6112A	Chase	2311 (West)	12 April 2009
East Horn antenna	3115	EMCO	9906-5817 (East)	7 Feb 2009
West Horn antenna	3115	EMCO	9007-3509 (West)	7 Feb 2009
Environmental sensor	ENV-50HUM	SensorMetrics	1	25 Aug 2007
East path Gain (RED)	Cable Path	Various	N/A	13 Dec 2007
West path Gain (GREEN)	Cable Path	Various	N/A	13 Dec 2007
Antenna Tower	4M East	Sunol	None	PM/CNR
Antenna Tower	6M West	Sunol	None	PM/CNR
Turntable	4M	Sunol	None	PM/CNR
Radiated Software	REM 2.2.6.1	SofTest	None	Cal Not Req
10 M Conducted				
EMI Receiver	85462A	Hewlett Packard	3441A00213	28 Aug 2007
EMI Receiver Filter Section	85460A	Hewlett Packard	3245A00056	28 Aug 2007
LISN 2	50-25-4	Fischer Comm.	9515	25 Aug 2007
LISN 3	50-25-6	Fischer Comm.	9516	25 Aug 2007
Conducted Path	Cable Path	Various	N/A	25 Aug 2007
L1 Conducted Path	Cable Path	Various	N/A	25 Aug 2007
AC Power Source	6813A	HP	3503A00201	Out for cal
Eaton Voltmeter	PanelMate	Eaton	13263/10M9	20 Feb 2008
Conducted Software	CEM 2.0.4.1	SofTest	None	Cal Not Req

RHTC "REM Revision 2.2.6.1 in the Test Executive is the software program used in the 10-Meter semi-anechoic chamber.

RHTC CEM is the software program used conducted emissions measurements

Error of Uncertainty: The application of uncertainty to EMI measurements is based on LAB 34. At the present time measurement uncertainty is included in the test limits. Refer to QSA Uncertainty Records for calculations.

EMI measurement system

Frequency resolution 1 Hz
accuracy +/- (frequency X 5X10⁻⁶)

Radiated disturbance

Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 4.7 dB vertical, +/- 4.7 dB horizontal

Conducted disturbance

Mains - Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 3.6 dB
Unshielded telecommunications ports with CDN/ISN/Current Clamp - Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 3.4 dB
Unshielded telecommunications ports with CVP - Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 6.8 dB
Unshielded telecommunications ports with F35 - Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 3.4 dB

Shielded telecommunications ports with ET CISPR22 C.1.2 - Amplitude accuracy Expanded uncertainty (k=2) for a 95% confidence interval = +/- 3.4 dB

Error of Uncertainty: Environmental ENV-50-HUM

Temperature +/- 1 degree C

Humidity +/- 5 %

Pressure - +/- .1 referenced to local weather station

CONDITION OF EUT(s):

Start of test:	<input type="checkbox"/>	New	<input checked="" type="checkbox"/>	Used	<input type="checkbox"/>	Proto	Other	_____
End of test:	<input type="checkbox"/>	New	<input checked="" type="checkbox"/>	Used	<input type="checkbox"/>	Proto	Other	_____

INITIAL DISTRIBUTION LIST:

SHERMAN HALL

Regulatory or Reliability Engineer

RHTC Archive File

RHTC Test Record File Name: H:\TEST DATA NEW\030641\RE_030641.DOC

ATTACHMENTS: 0 pages

REFERENCES:

CISPR 22: 2005

EN 55022:2006

IECS-003 Issue 4:2004

VCCI V-3/2004.4 (Japan)

GOST 51318.22-99 (Russia)

CNS 13438

ANSI C63.4 (2003)

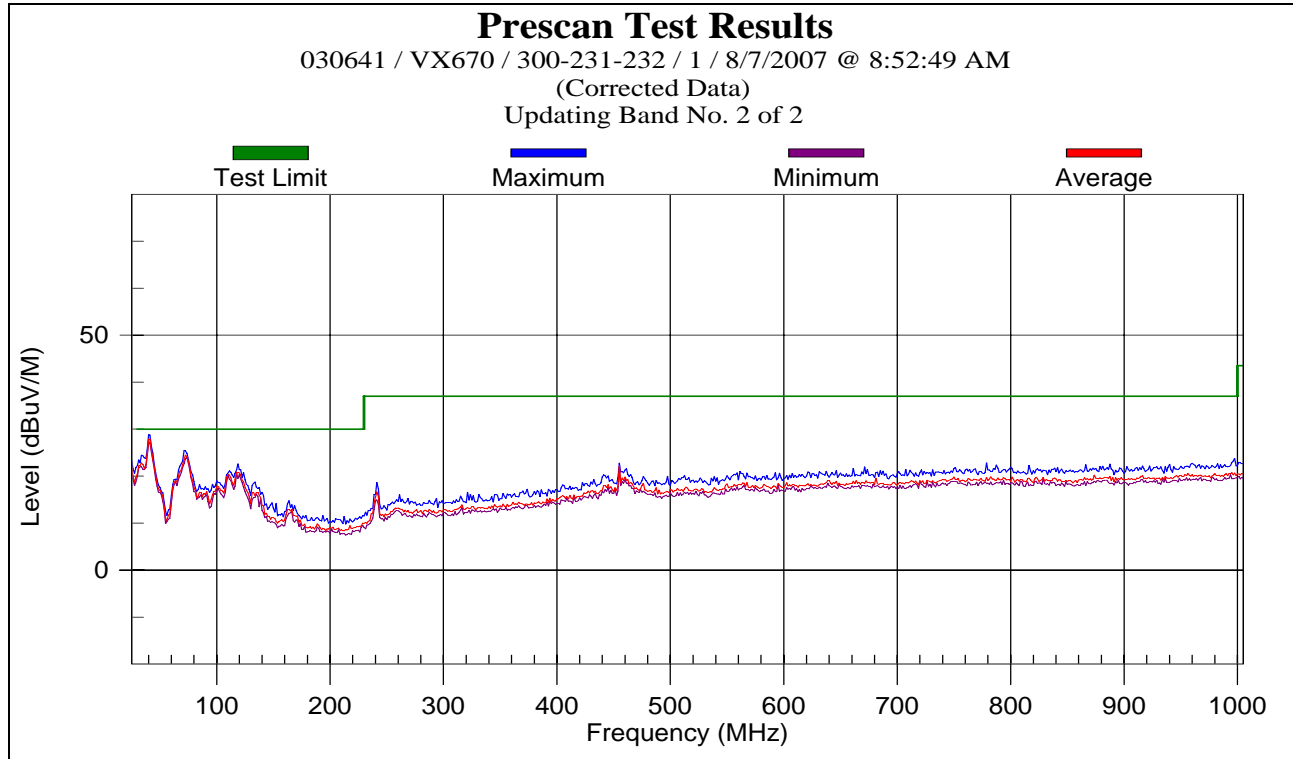
CFR 47 part 15

KN22 (RRL No. 2004-69, September 22, 2004)

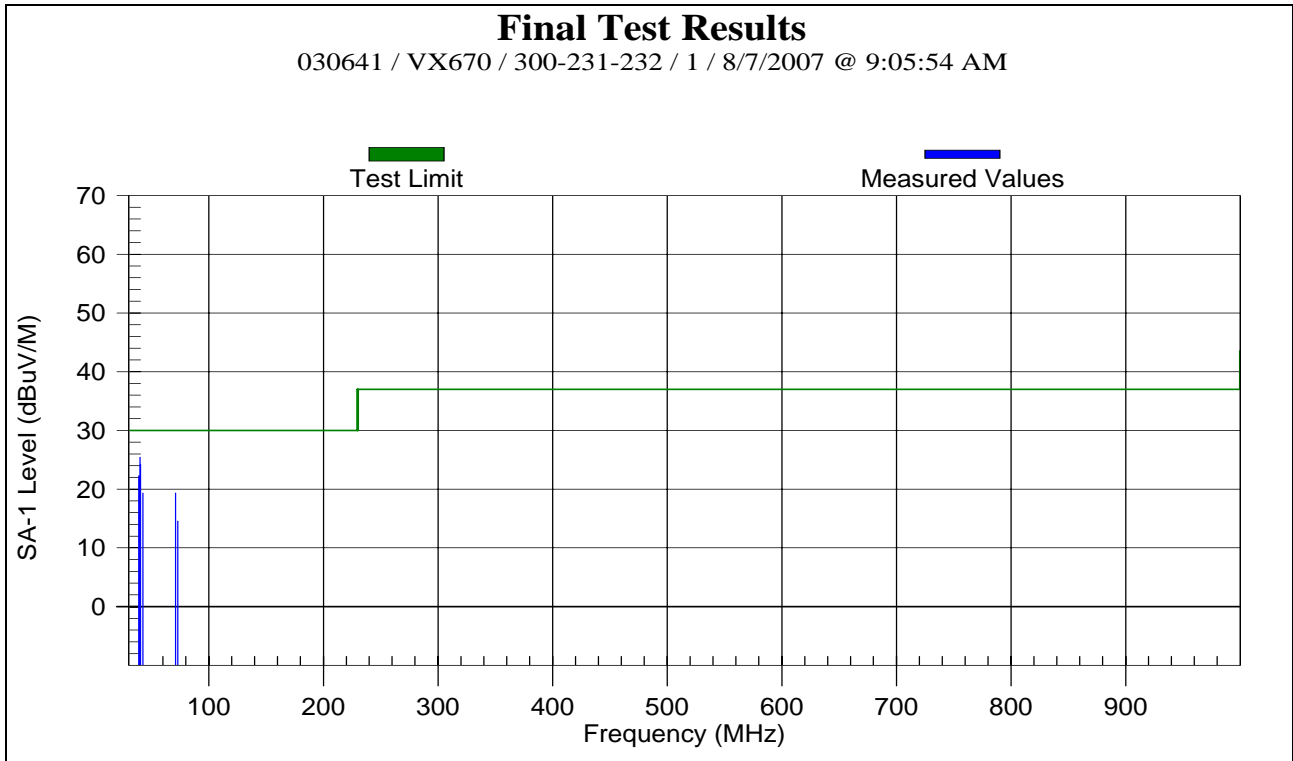
ETSI EN 300 386 V1.3.2

***THE RESULTS OF THIS REPORT ARE INCLUSIVE TO THE UNITS TESTED ONLY.
THIS REPORT MAY NOT BE REPRODUCED IN PART WITHOUT THE EXPRESSED
WRITTEN CONSENT OF THE ROSEVILLE HARDWARE TEST CENTER.***

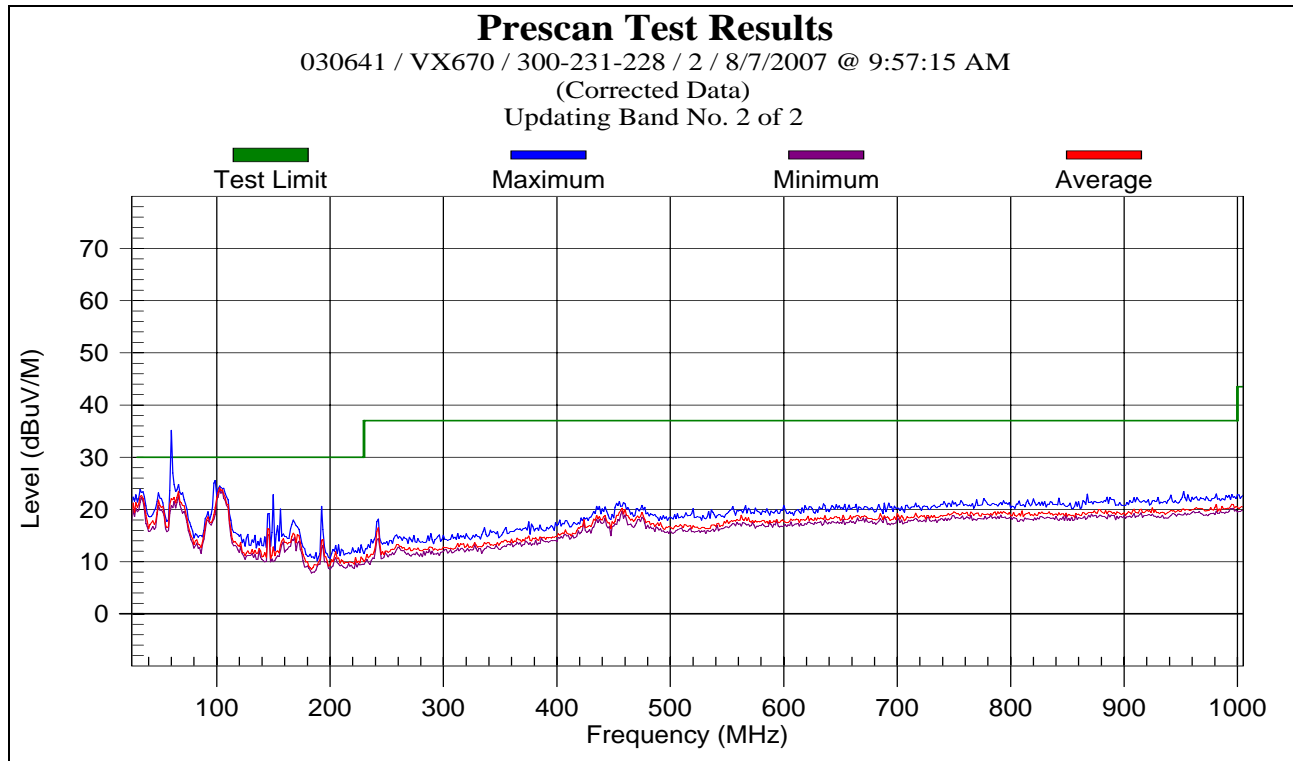
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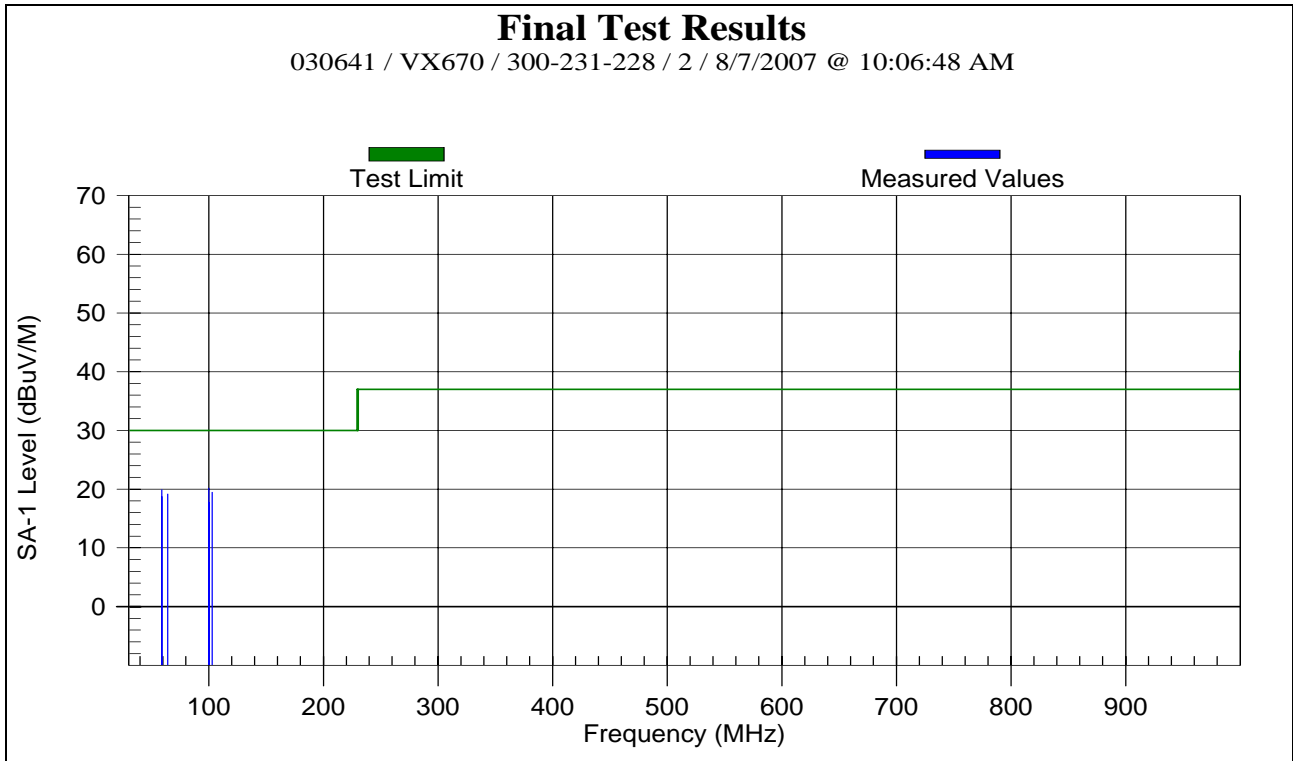
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230 Volts AC @ 50 Hz1-Phase Power															
23.3 Deg C, 45.0 % RH, 99.5 kPa															
PreScan Test Data					Final Test Data										
	Freq MHz	Limit dBuV/m	Max Corr Lvl dBuV/m	Margin dB	Pol	Ht cm.	Azm Deg.	Corr Freq MHz	Value dBuV	Corr Value dBuV/m	Cor Mar	RBW	Det	Method	Note
P	33.75	30.0	24.5	5.5	V	100	180	39.90	59.1	25.4	4.6	120	Qpk	Normal	""
P	40.00	30.0	28.8	1.2	V	150	135	40.38	58.1	24.2	5.8	120	Qpk	Normal	""
P	38.75	30.0	25.6	4.4	V	100	225	38.75	55.3	22.3	7.7	120	Qpk	Normal	""
P	42.50	30.0	26.2	3.8	V	100	179	42.40	54.2	19.3	10.7	120	Qpk	Normal	""
P	71.25	30.0	25.5	4.5	V	150	135	70.83	58.9	19.3	10.7	120	Qpk	Normal	""
P	73.75	30.0	24.8	5.2	V	150	135	72.92	54.1	14.6	15.4	120	Qpk	Normal	""



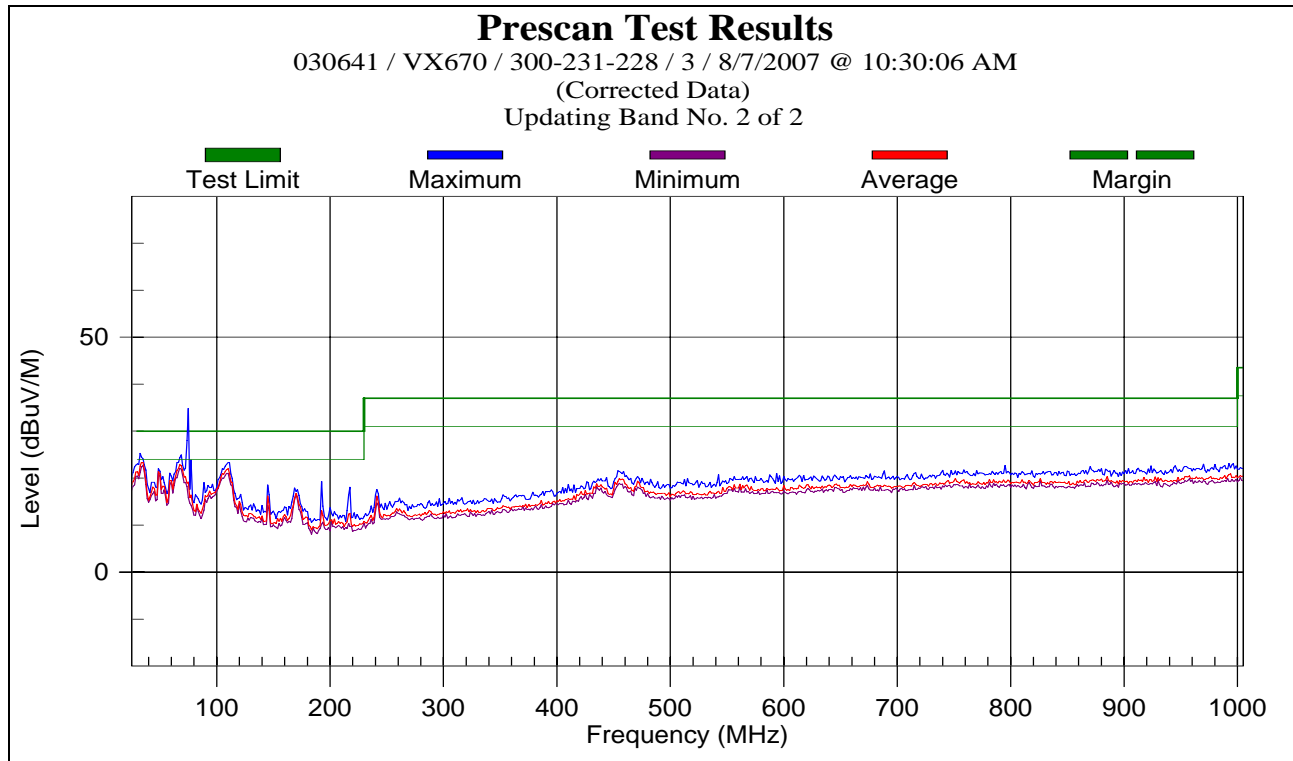
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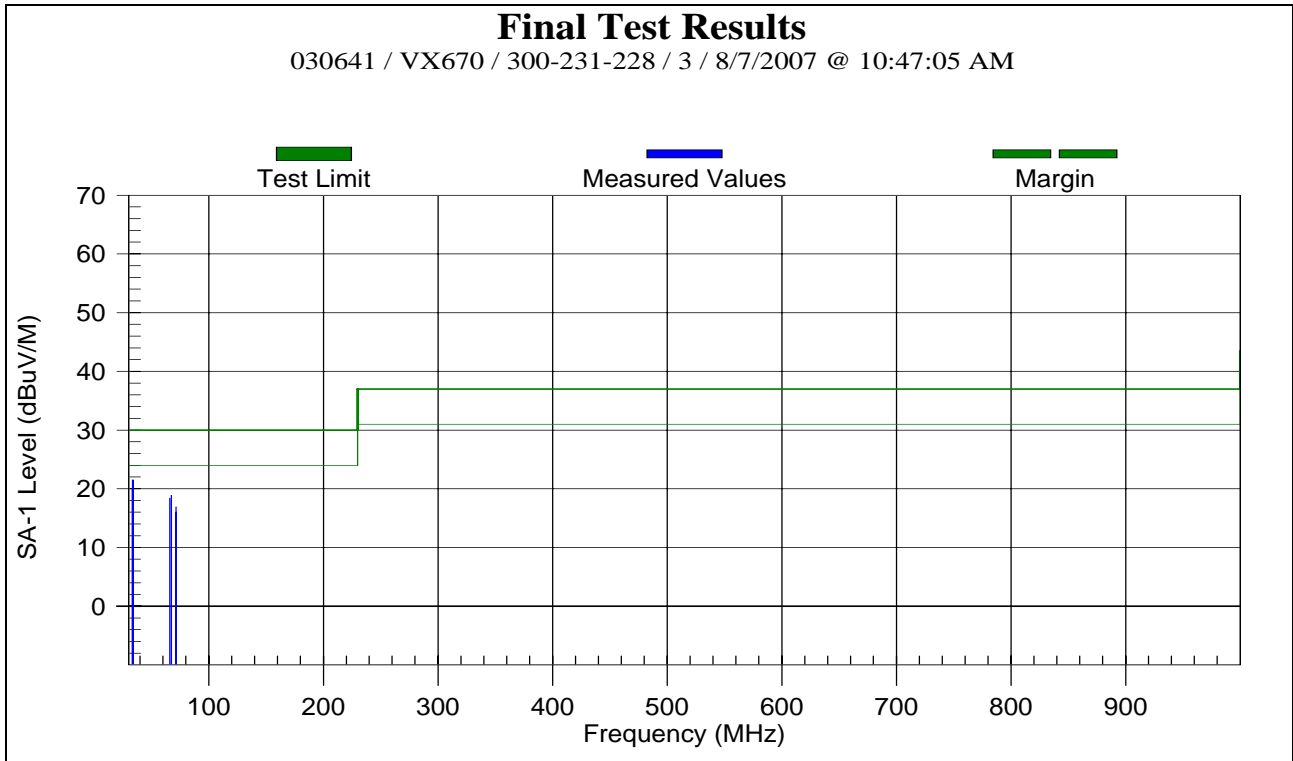
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230 Volts AC @ 50 Hz 1-Phase Power															
23.3 Deg C, 45.0 % RH, 99.5 kPa															
PreScan Test Data					Final Test Data										
	Freq MHz	Limit dBuV/m	Max Corr Lvl dBuV/m	Margin dB	Pol	Ht cm	Azm Deg	Corr Freq MHz	Value dBuV	Corr Value dBuV/m	Cor Mar	RBW	Det	Method	Note
P	102.50	30.0	24.5	5.5	V	100	270	100.09	55.0	20.2	9.8	120	Qpk	Normal	""
P	62.50	30.0	24.8	5.2	V	350	0	59.00	59.6	19.9	10.1	120	Qpk	Normal	""
P	106.25	30.0	24.1	5.9	V	150	0	102.93	53.9	19.5	10.5	120	Qpk	Normal	""
P	66.25	30.0	24.8	5.2	V	200	180	64.12	58.9	19.2	10.8	120	Qpk	Normal	""
P	60.00	30.0	35.2	-5.2	V	100	225	59.12	58.4	18.7	11.3	120	Qpk	Normal	""
P	98.75	30.0	25.6	4.4	V	250	90	100.25	52.6	17.8	12.2	120	Qpk	Normal	""



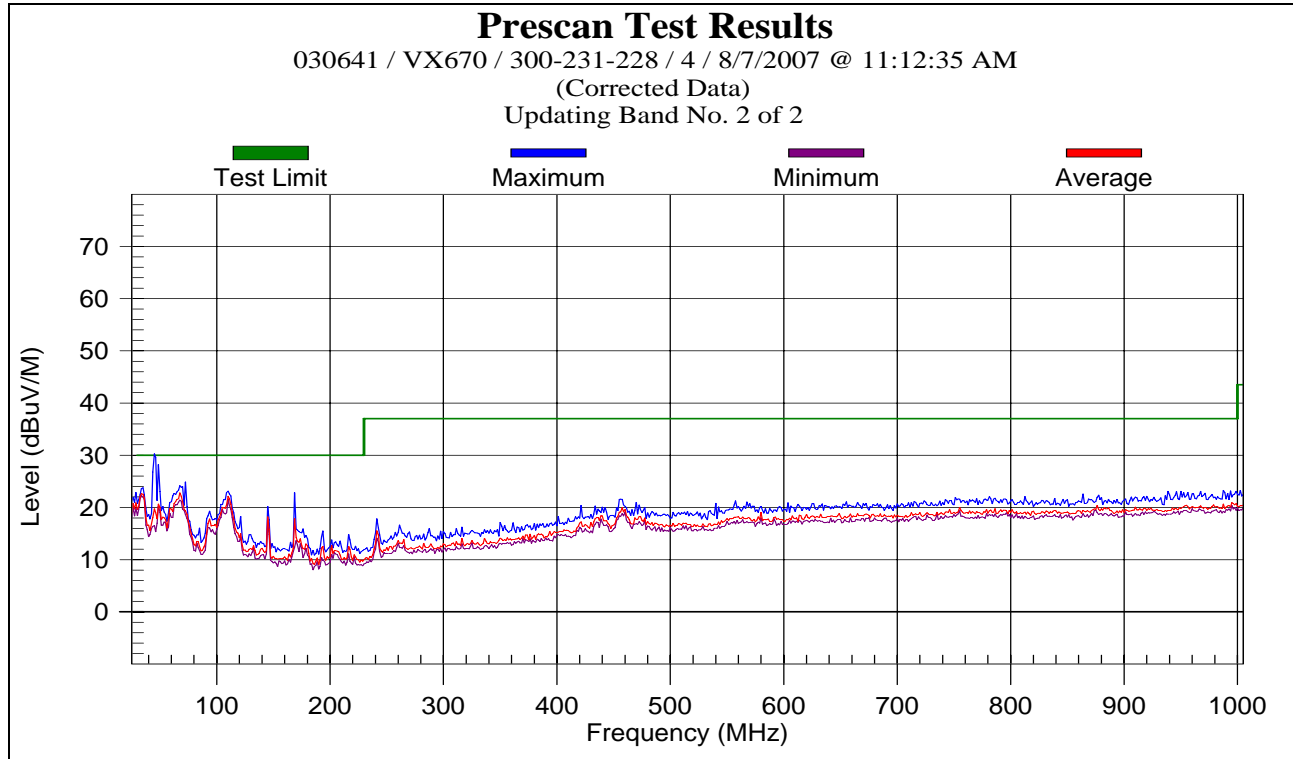
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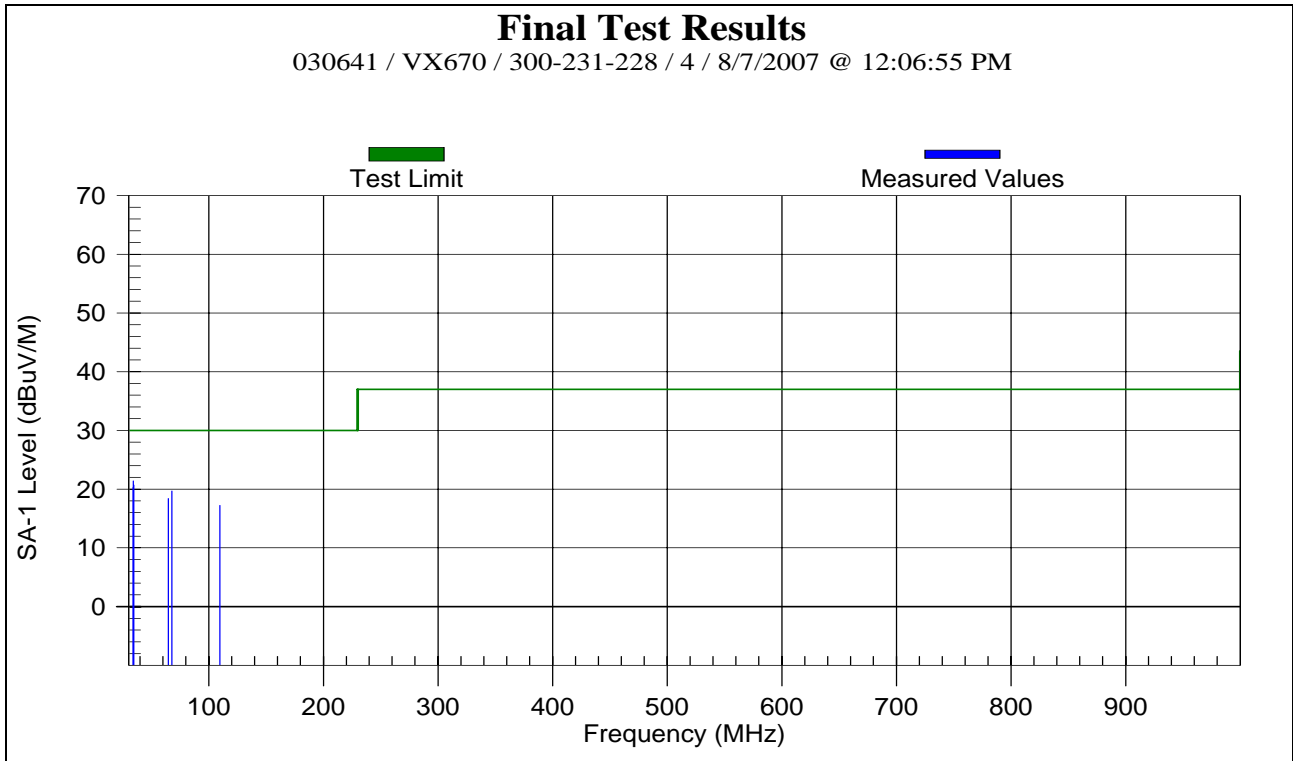
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Work Order=030641,Project=VX670,EUT M/N=M267-512-11-EUC,EUT S/N=300-231-228,Operator=Tsang,Jordan															
230 Volts AC @ 50 Hz 1-Phase Power															
23.3 Deg C, 44.0 % RH, 99.5 kPa															
PreScan Test Data					Final Test Data										
	Freq MHz	Limit dBuV/m	Max Corr Lvl dBuV/m	Margin dB	Pol	Ht cm.	Azm Deg.	Corr Freq MHz	Value dBuV	Corr Value dBuV/m	Cor Mar	RBW	Det	Method	Note
P	35.00	30.0	24.1	5.9	V	100	180	34.15	51.7	21.5	8.5	120	Qpk	Normal	""
P	33.75	30.0	24.5	5.5	V	100	135	33.43	51.2	21.5	8.5	120	Qpk	Normal	""
P	32.50	30.0	25.3	4.7	V	150	225	33.36	49.6	19.9	10.1	120	Qpk	Normal	""
P	68.75	30.0	24.9	5.1	V	350	180	67.44	58.6	18.9	11.1	120	Qpk	Normal	""
P	67.50	30.0	24.4	5.6	V	100	225	65.90	58.1	18.4	11.6	120	Qpk	Normal	""
P	73.75	30.0	28.0	2.0	V	300	135	71.33	56.5	16.9	13.1	120	Qpk	Normal	""
P	75.00	30.0	34.9	-4.9	V	300	135	71.66	55.6	16.0	14.0	120	Qpk	Normal	""



Data for: VX670, Unit: 300-231-228



File: H:\TEST DATA NEW\030641\RE_VX670_300-231-228_4\FINALTEST_FINAL.DAT															
Work Order=030641,Project=VX670,EUT M/N=M267-512-11-EUC,EUT S/N=300-231-228,Operator=Tsang,Jordan															
230 Volts AC @ 50 Hz1-Phase Power															
22.2 Deg C, 44.0 % RH, 99.5 kPa															
PreScan Test Data					Final Test Data										
	Freq MHz	Limit dBuV/m	Max Corr Lvl dBuV/m	Margin dB	Pol	Ht cm.	Azm Deg.	Corr Freq MHz	Value dBuV	Corr Value dBuV/m	Cor Mar	RBW	Det	Method	Note
P	35.00	30.0	22.5	7.5	V	100	180	34.09	51.5	21.4	8.6	120	Qpk	Normal	""
P	32.50	30.0	22.1	7.9	V	100	135	34.68	51.2	20.7	9.3	120	Qpk	Normal	""
P	33.75	30.0	22.7	7.3	V	200	135	34.06	50.4	20.3	9.7	120	Qpk	Normal	""
P	68.75	30.0	22.2	7.8	V	250	180	67.69	59.3	19.7	10.3	120	Qpk	Normal	""
P	67.50	30.0	22.8	7.2	V	150	135	64.59	58.1	18.4	11.6	120	Qpk	Normal	""
P	110.00	30.0	22.2	7.8	V	100	225	109.71	50.9	17.2	12.8	120	Qpk	Normal	""



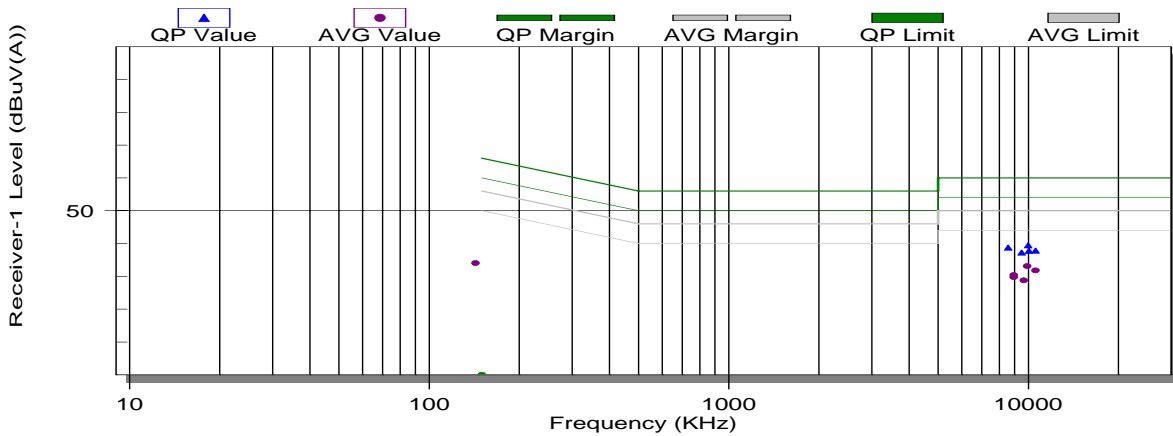
Test Data for VX670 300-231-232 1

Project Name	VX670
Model Number	M267-512-11-EUC
Serial Number	300-231-232
Description	BLUETOOTH HANDHELD POS
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	SELF CONTAINED PROGRAM
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	

CE_FINALTEST_FINAL_L1.DAT												
Project Name: VX670, Serial Number: 300-231-232												
Test completed on 07 Aug, 2007 at 08:50:50.												
230 Volts AC @ 50 Hz, 1-Phase Power												
N/R Deg C, N/R % RH, N/R kPa												
X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1437	0.0	55.6	0.4	0.1413				0.1430	22.4	34.1	21.9
P	8.5750	50.0	54.1	-4.1	8.5702	28.0	38.8	21.2	8.9374	19.0	29.7	20.3
P	9.1487	50.0	54.4	-4.4	9.5006	26.5	37.3	22.7	8.9365	19.6	30.3	19.7
P	9.6587	50.0	54.4	-4.4	9.9839	28.6	39.4	20.6	9.6568	18.0	28.8	21.2
P	10.0412	50.0	54.4	-4.4	10.0479	27.0	37.8	22.2	9.9131	22.3	33.1	16.9
P	10.5512	50.0	54.2	-4.2	10.5589	27.0	37.8	22.2	10.5608	20.9	31.8	18.2

Lisn 3 Line

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 8:50:07 AM



CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-232

Test completed on 07 Aug, 2007 at 09:01:01.

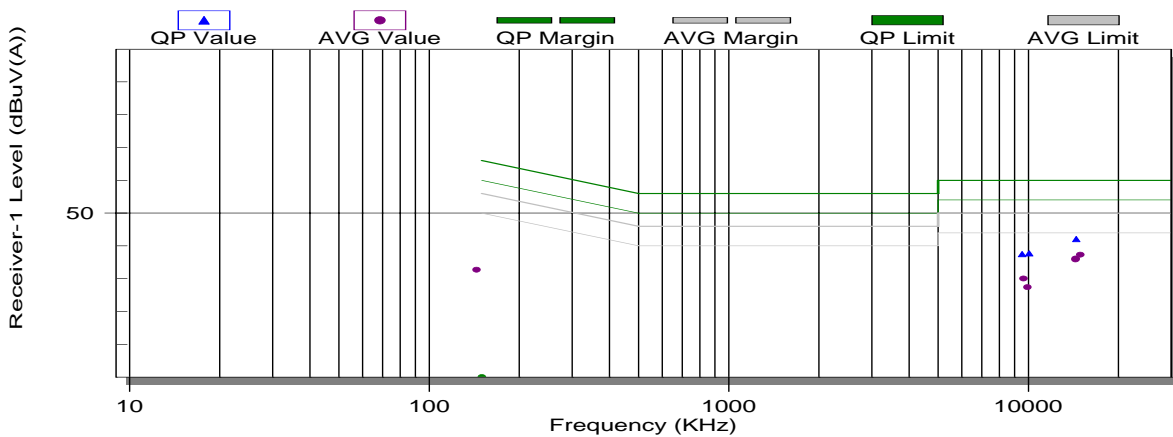
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	56.0	57.9	-1.9	0.1436				0.1441	21.1	32.7	23.3
P	9.5313	50.0	54.0	-4.0	10.0573	26.9	37.7	22.3	9.6441	19.3	30.1	19.9
P	9.5950	50.0	54.0	-4.0	9.5366	26.7	37.5	22.5	9.9364	16.6	27.4	22.6
P	14.4400	50.0	55.0	-5.0	14.4419	31.0	42.0	18.0	14.3884	25.1	36.1	13.9
P	14.5675	50.0	55.0	-5.0	14.3829				14.3706	24.9	35.9	14.1
P	14.9500	50.0	55.7	-5.7	14.8535				14.9232	26.3	37.3	12.7

Lisn 3 Neutral

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 9:01:52 AM



CE_FINALTEST_L1_1.DAT

Project Name: VX670, Serial Number: 300-231-232

Test completed on 07 Aug, 2007 at 08:50:50.

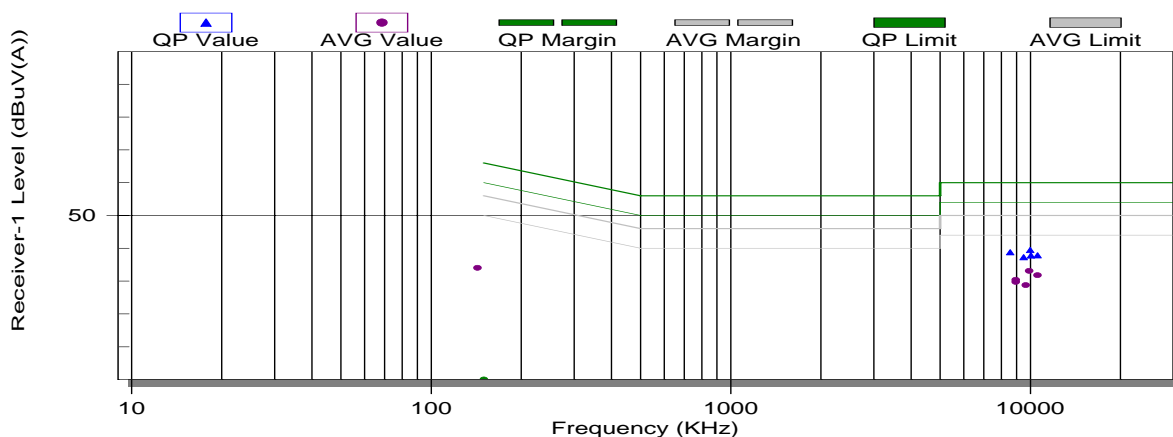
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1437	0.0	55.6	0.4	0.1413				0.1430	22.4	34.1	21.9
P	8.5750	50.0	54.1	-4.1	8.5702	28.0	38.8	21.2	8.9374	19.0	29.7	20.3
P	9.1487	50.0	54.4	-4.4	9.5006	26.5	37.3	22.7	8.9365	19.6	30.3	19.7
P	9.6587	50.0	54.4	-4.4	9.9839	28.6	39.4	20.6	9.6568	18.0	28.8	21.2
P	10.0412	50.0	54.4	-4.4	10.0479	27.0	37.8	22.2	9.9131	22.3	33.1	16.9
P	10.5512	50.0	54.2	-4.2	10.5589	27.0	37.8	22.2	10.5608	20.9	31.8	18.2

Lisn 3 Line

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 8:50:05 AM



CE_FINALTEST_N_1.DAT

Project Name: VX670, Serial Number: 300-231-232

Test completed on 07 Aug, 2007 at 09:13:13.

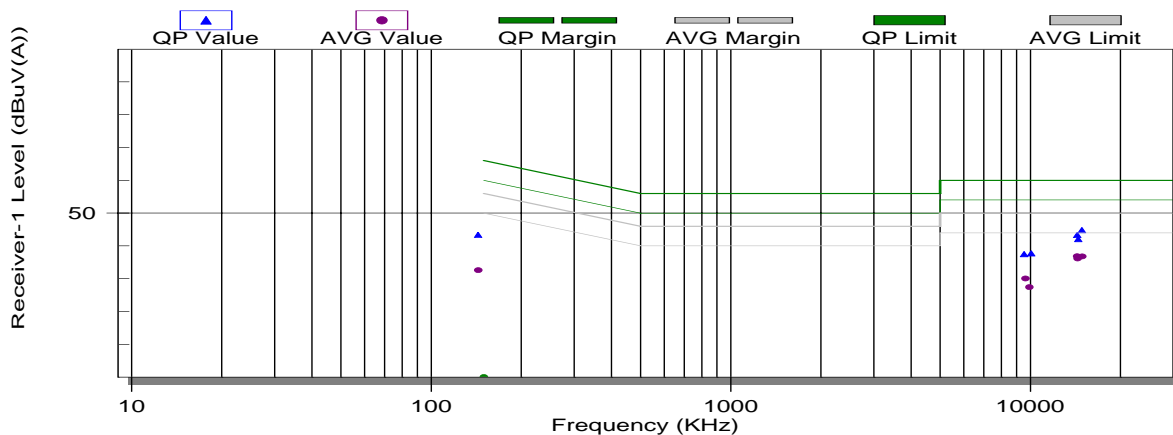
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	56.0	57.9	-1.9	0.1435	31.7	43.4	22.6	0.1436	20.9	32.6	23.4
P	9.5313	50.0	54.0	-4.0	10.0573	26.9	37.7	22.3	9.6441	19.3	30.1	19.9
P	9.5950	50.0	54.0	-4.0	9.5366	26.7	37.5	22.5	9.9364	16.6	27.4	22.6
P	14.4400	50.0	55.0	-5.0	14.4419	31.0	42.0	18.0	14.3884	25.1	36.1	13.9
P	14.5675	50.0	55.0	-5.0	14.3467	32.3	43.3	16.7	14.3476	25.8	36.8	13.2
P	14.9500	50.0	55.7	-5.7	14.8601	33.8	44.8	15.2	14.9271	25.7	36.8	13.2

Lisn 3 Neutral

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 9:13:13 AM

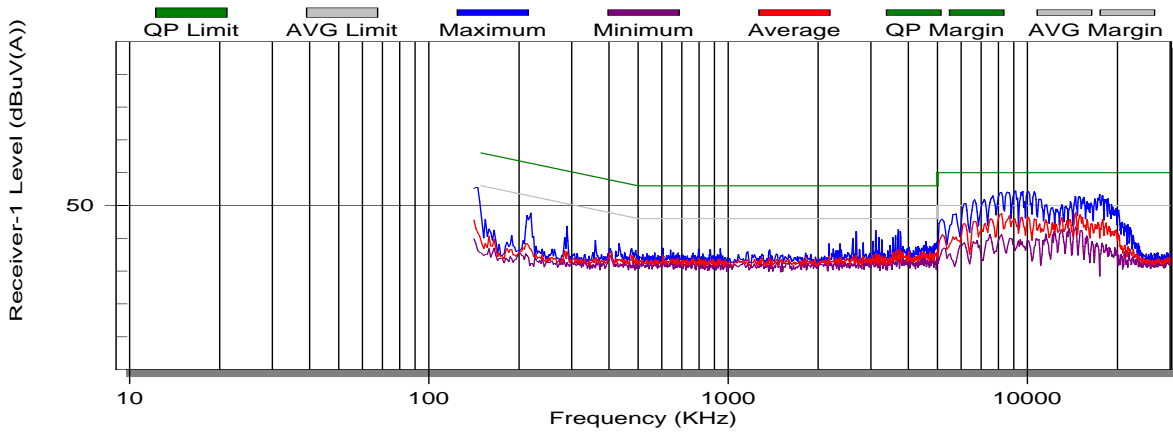


Lisn 3 Line

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 8:40:38 AM

(Corrected Data)

Updating Band No. 3 of 3

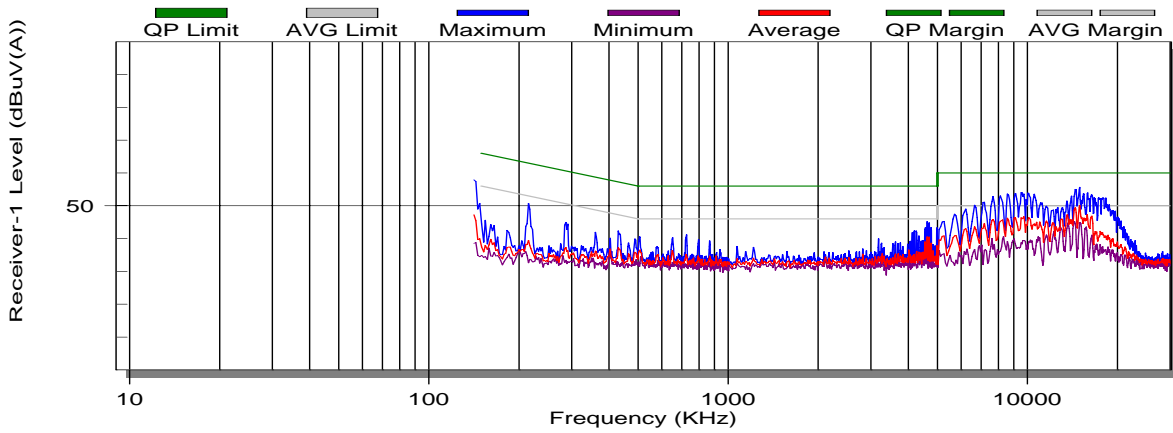


Lisn 3 Neutral

030641 / VX670 / 300-231-232 / 1 / 8/7/2007 @ 8:51:20 AM

(Corrected Data)

Updating Band No. 3 of 3



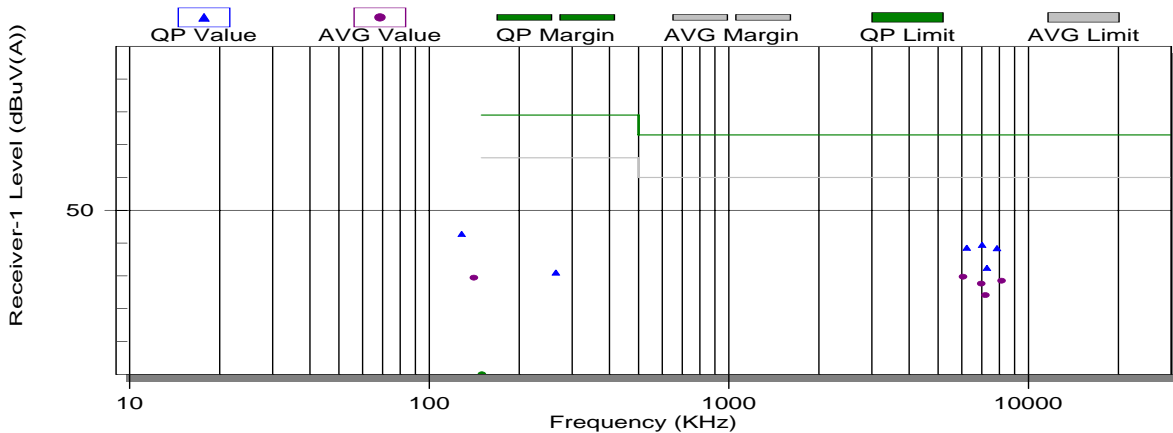
Test Data for VX670 300-231-228 2

Project Name	VX670
Model Number	M267-512-11-EUC
Serial Number	300-231-228
Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	

CE_FINALTEST_FINAL_L1.DAT Project Name: VX670, Serial Number: 300-231-228 Test completed on 07 Aug, 2007 at 09:53:53. 230 Volts AC @ 50 Hz, 1-Phase Power N/R Deg C, N/R % RH, N/R kPa												
X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	44.4	21.6	0.1285	30.7	42.8	36.2	0.1410	17.7	29.5	36.5
P	0.2672	66.0	43.0	23.0	0.2650	20.3	31.0	48.0	0.2596			
P	6.4075	60.0	41.8	18.2	6.2297	27.9	38.6	34.4	6.0489	19.1	29.7	30.3
P	6.9813	60.0	41.9	18.1	7.2691	21.8	32.5	40.5	7.1897	13.4	24.1	35.9
P	7.1087	60.0	41.5	18.5	7.0044	28.8	39.5	33.5	6.9681	16.9	27.6	32.4
P	7.6188	60.0	42.5	17.5	7.8637	27.7	38.4	34.6	8.1486	17.8	28.5	31.5

Lisn 3 Line

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 9:53:03 AM

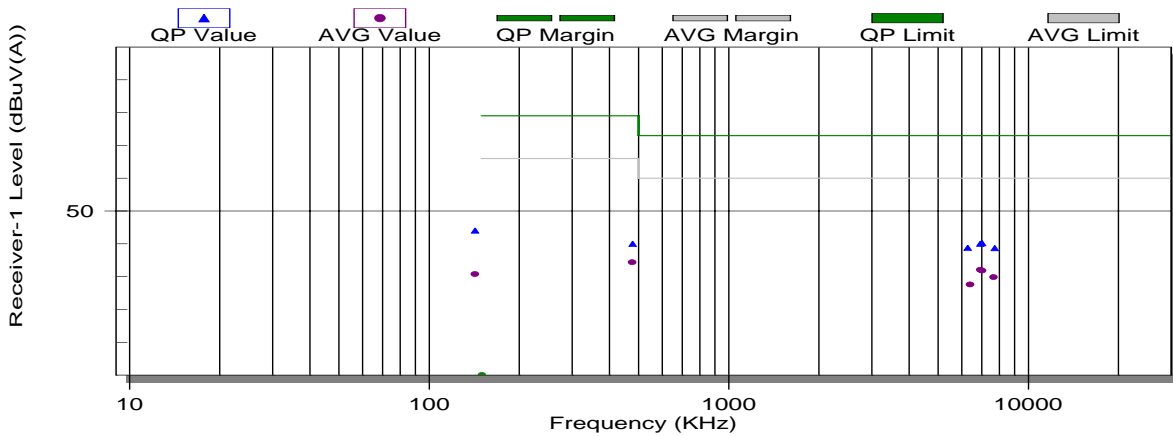


CE_FINALTEST_FINAL_N.DAT Project Name: VX670, Serial Number: 300-231-228 Test completed on 07 Aug, 2007 at 10:01:01. 230 Volts AC @ 50 Hz, 1-Phase Power N/R Deg C, N/R % RH, N/R kPa	
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X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	46.6	19.4	0.1424	32.3	44.0	35.0	0.1421	19.0	30.7	35.3
P	0.4775	66.0	41.8	24.2	0.4776	29.6	40.0	39.0	0.4767	24.0	34.4	31.6
P	6.4075	60.0	41.7	18.3	6.2727	28.1	38.8	34.2	6.3922	16.9	27.6	32.4
P	6.9813	60.0	41.7	18.3	6.9210	29.4	40.0	33.0	7.0119	21.1	31.8	28.2
P	7.1087	60.0	42.6	17.4	7.0131	29.5	40.2	32.8	6.9222	21.4	32.1	27.9
P	7.6825	60.0	42.5	17.5	7.7284	27.9	38.7	34.3	7.6595	19.1	29.9	30.1

Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 10:01:50 AM

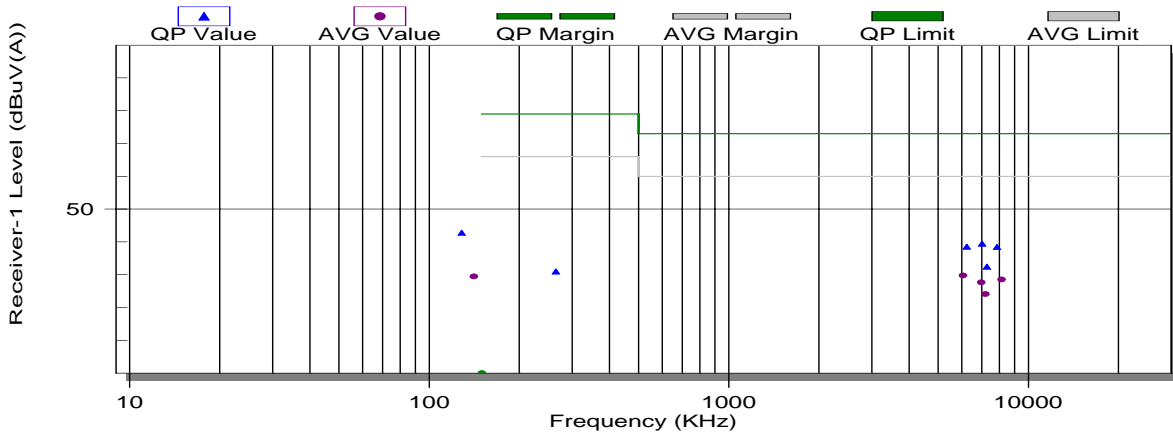


CE_FINALTEST_L1_1.DAT
Project Name: VX670, Serial Number: 300-231-228
Test completed on 07 Aug, 2007 at 09:53:53.
230 Volts AC @ 50 Hz, 1-Phase Power
N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	44.4	21.6	0.1285	30.7	42.8	36.2	0.1410	17.7	29.5	36.5
P	0.2672	66.0	43.0	23.0	0.2650	20.3	31.0	48.0	0.2596			
P	6.4075	60.0	41.8	18.2	6.2297	27.9	38.6	34.4	6.0489	19.1	29.7	30.3
P	6.9813	60.0	41.9	18.1	7.2691	21.8	32.5	40.5	7.1897	13.4	24.1	35.9
P	7.1087	60.0	41.5	18.5	7.0044	28.8	39.5	33.5	6.9681	16.9	27.6	32.4
P	7.6188	60.0	42.5	17.5	7.8637	27.7	38.4	34.6	8.1486	17.8	28.5	31.5

Lisn 3 Line

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 9:53:02 AM



CE_FINALTEST_N_1.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:01:01.

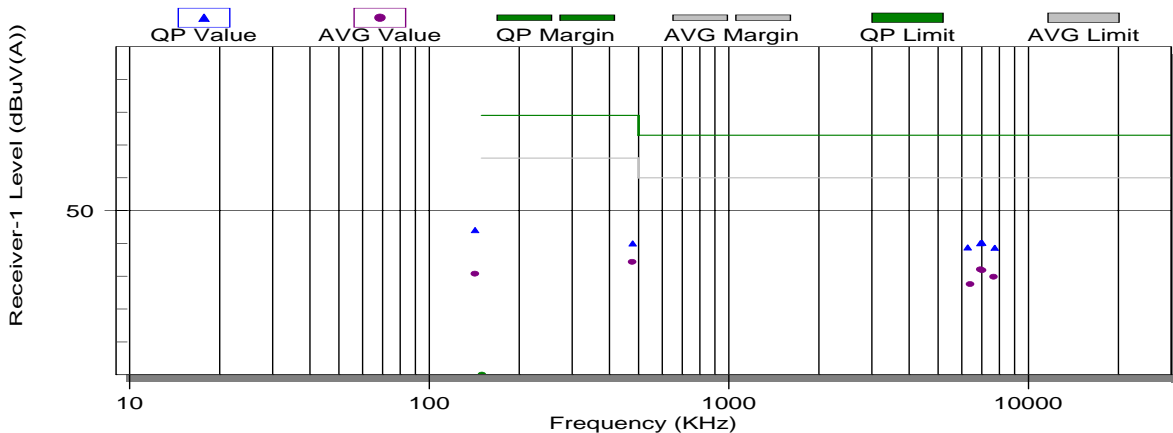
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	46.6	19.4	0.1424	32.3	44.0	35.0	0.1421	19.0	30.7	35.3
P	0.4775	66.0	41.8	24.2	0.4776	29.6	40.0	39.0	0.4767	24.0	34.4	31.6
P	6.4075	60.0	41.7	18.3	6.2727	28.1	38.8	34.2	6.3922	16.9	27.6	32.4
P	6.9813	60.0	41.7	18.3	6.9210	29.4	40.0	33.0	7.0119	21.1	31.8	28.2
P	7.1087	60.0	42.6	17.4	7.0131	29.5	40.2	32.8	6.9222	21.4	32.1	27.9
P	7.6825	60.0	42.5	17.5	7.7284	27.9	38.7	34.3	7.6595	19.1	29.9	30.1

Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 10:01:48 AM

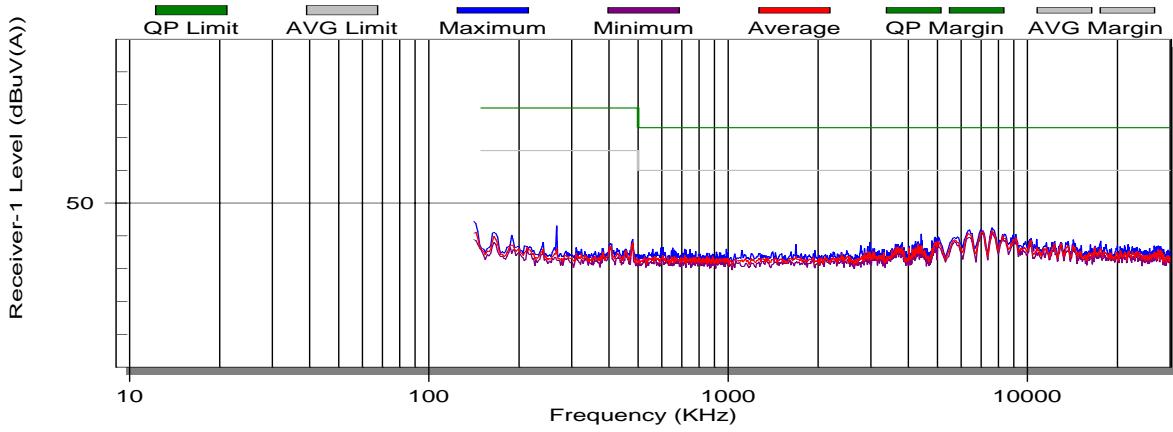


Lisn 3 Line

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 9:44:41 AM

(Corrected Data)

Updating Band No. 3 of 3

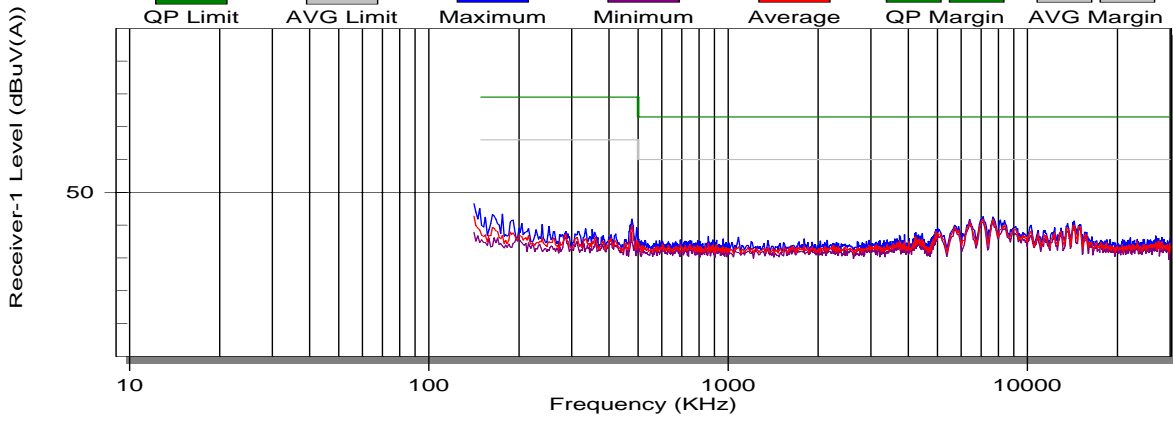


Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 2 / 8/7/2007 @ 9:54:17 AM

(Corrected Data)

Updating Band No. 3 of 3



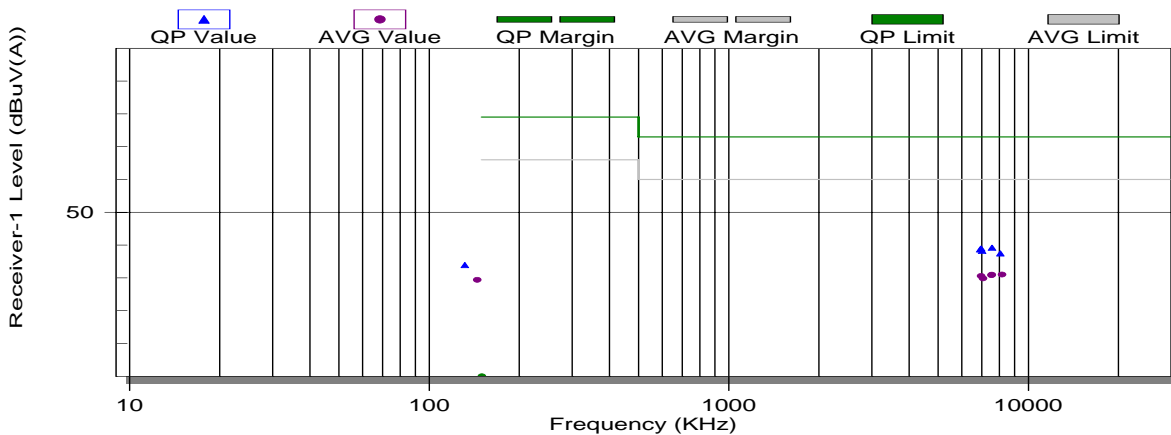
Test Data for VX670 300-231-228 3

Project Name	VX670
Model Number	M267-512-11-EUC
Serial Number	300-231-228
Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	

CE_FINALTEST_FINAL_L1.DAT Project Name: VX670, Serial Number: 300-231-228 Test completed on 07 Aug, 2007 at 10:22:22. 230 Volts AC @ 50 Hz, 1-Phase Power N/R Deg C, N/R % RH, N/R kPa												
X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1458	66.0	44.4	21.6	0.1316	21.9	33.9	45.1	0.1447	17.7	29.4	36.6
P	6.6625	60.0	42.3	17.7	6.9045	28.0	38.7	34.3	6.9589	19.9	30.6	29.4
P	7.1725	60.0	42.0	18.0	6.9506	28.3	39.0	34.0	7.0558	19.1	29.8	30.2
P	7.2363	60.0	42.7	17.3	7.0135	27.5	38.2	34.8	7.5566	20.2	31.0	29.0
P	7.8100	60.0	42.4	17.6	7.5728	28.5	39.2	33.8	7.5413	20.1	30.8	29.2
P	8.3837	60.0	42.5	17.5	8.0662	26.7	37.5	35.5	8.1771	20.3	31.0	29.0

Lisn 3 Line

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:22:51 AM



CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:31:31.

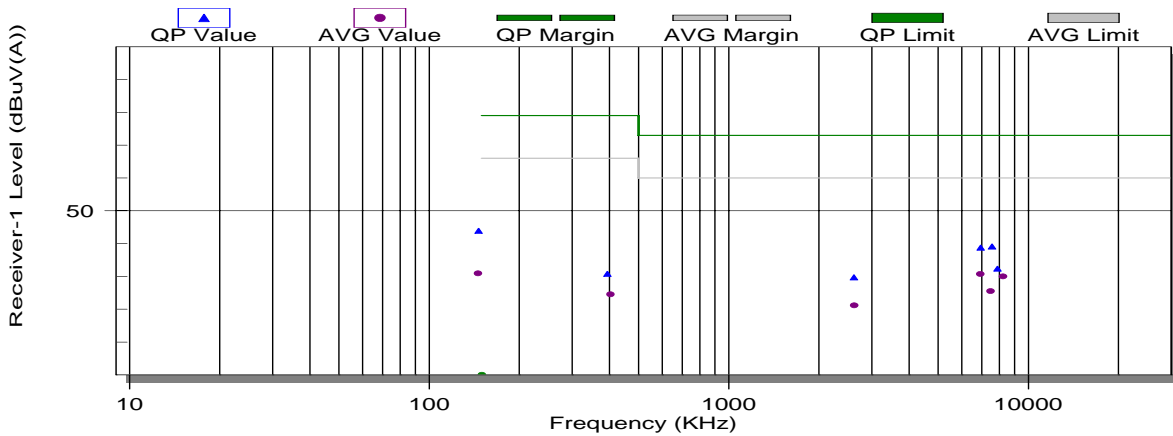
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	46.0	20.0	0.1461	32.3	43.9	35.1	0.1456	19.3	30.9	35.1
P	0.3886	66.0	42.0	24.0	0.3936	20.3	30.7	48.3	0.4030	14.1	24.5	41.5
P	2.6736	60.0	41.8	18.2	2.6179	19.3	29.7	43.3	2.6225	10.7	21.1	38.9
P	7.1087	60.0	41.8	18.2	6.9318	28.1	38.8	34.2	6.9213	20.0	30.7	29.3
P	7.6825	60.0	42.4	17.6	7.5677	28.4	39.1	33.9	7.4798	14.8	25.5	34.5
P	8.2562	60.0	42.2	17.8	7.8900	21.6	32.4	40.6	8.2313	19.3	30.0	30.0

Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:31:56 AM



CE_FINALTEST_L1_1.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:22:22.

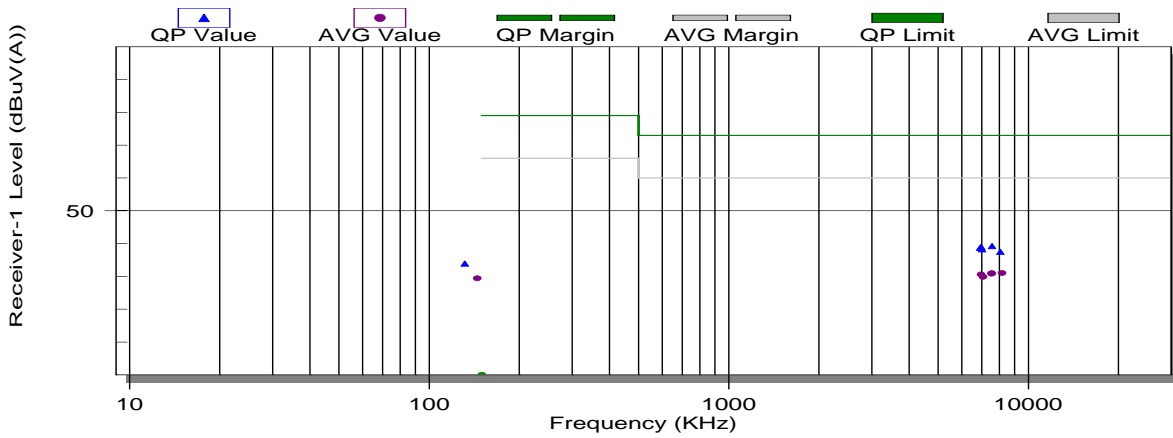
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1458	66.0	44.4	21.6	0.1316	21.9	33.9	45.1	0.1447	17.7	29.4	36.6
P	6.6625	60.0	42.3	17.7	6.9045	28.0	38.7	34.3	6.9589	19.9	30.6	29.4
P	7.1725	60.0	42.0	18.0	6.9506	28.3	39.0	34.0	7.0558	19.1	29.8	30.2
P	7.2363	60.0	42.7	17.3	7.0135	27.5	38.2	34.8	7.5566	20.2	31.0	29.0
P	7.8100	60.0	42.4	17.6	7.5728	28.5	39.2	33.8	7.5413	20.1	30.8	29.2
P	8.3837	60.0	42.5	17.5	8.0662	26.7	37.5	35.5	8.1771	20.3	31.0	29.0

Lisn 3 Line

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:22:50 AM



CE_FINALTEST_N_1.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 10:31:31.

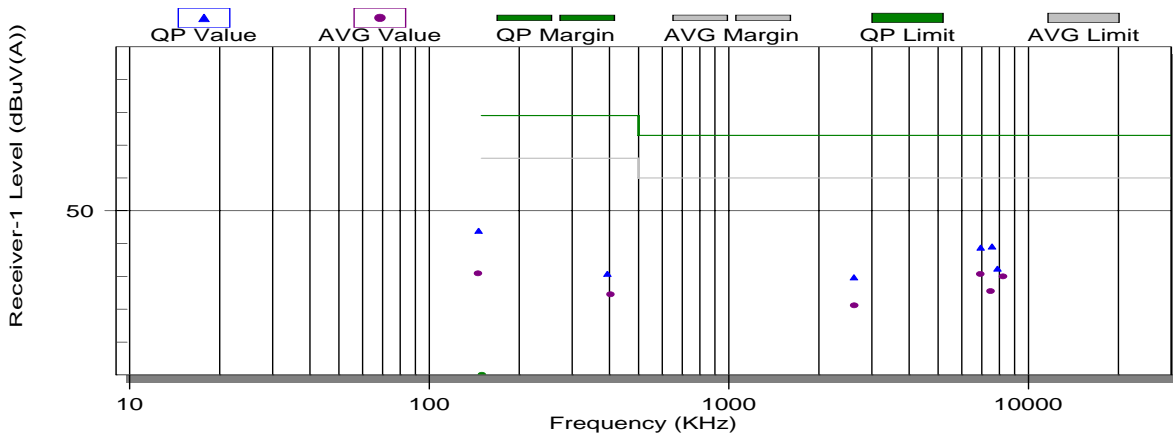
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1415	66.0	46.0	20.0	0.1461	32.3	43.9	35.1	0.1456	19.3	30.9	35.1
P	0.3886	66.0	42.0	24.0	0.3936	20.3	30.7	48.3	0.4030	14.1	24.5	41.5
P	2.6736	60.0	41.8	18.2	2.6179	19.3	29.7	43.3	2.6225	10.7	21.1	38.9
P	7.1087	60.0	41.8	18.2	6.9318	28.1	38.8	34.2	6.9213	20.0	30.7	29.3
P	7.6825	60.0	42.4	17.6	7.5677	28.4	39.1	33.9	7.4798	14.8	25.5	34.5
P	8.2562	60.0	42.2	17.8	7.8900	21.6	32.4	40.6	8.2313	19.3	30.0	30.0

Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:31:55 AM

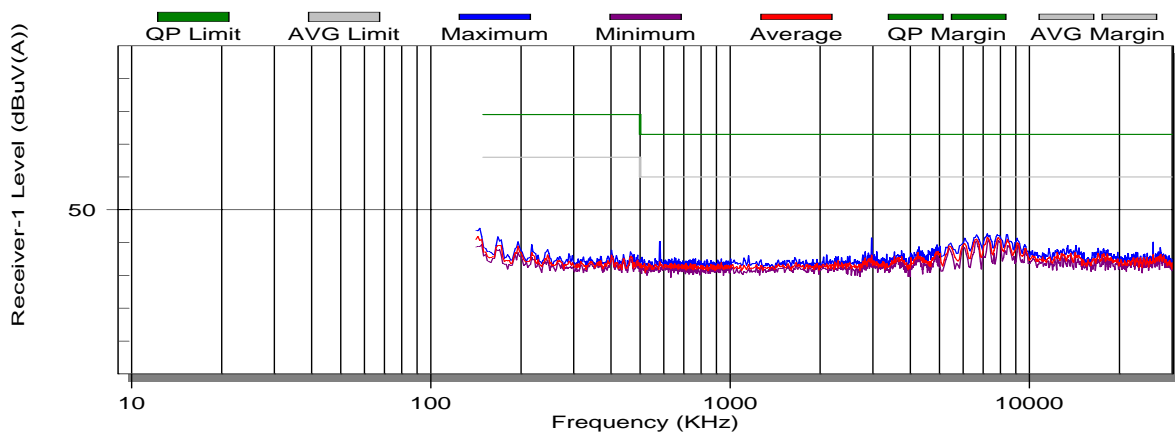


Lisn 3 Line

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:15:02 AM

(Corrected Data)

Updating Band No. 3 of 3

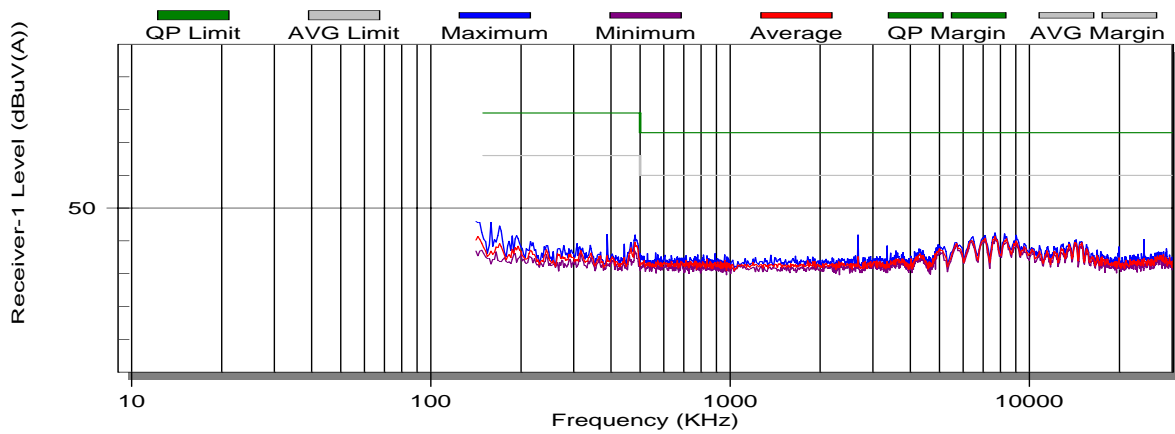


Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 3 / 8/7/2007 @ 10:24:02 AM

(Corrected Data)

Updating Band No. 3 of 3



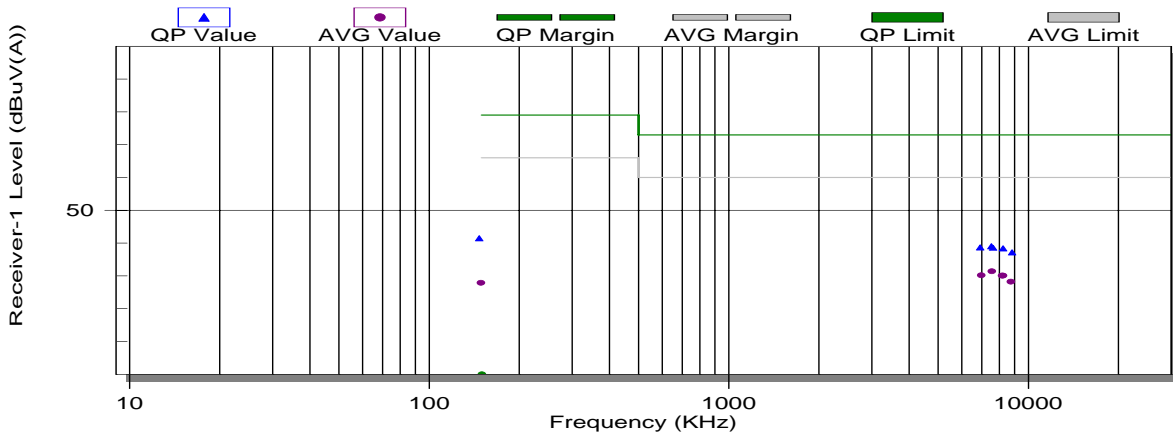
Test Data for VX670 300-231-228 4

Project Name	VX670
Model Number	M267-512-11-EUC
Serial Number	300-231-228
Description	BLUETOOTH HANDHELD POS. NOTEBOOK SOFTWARE
System Configuration	BLUETOOTH TERMINAL PLACED ON FULL FEATURED STAND ALONE.
Software/Firmware	EXTERNAL NOTEBOOK SOFTWARE
Verification Method	MONITOR LOOPBACK TESTS ON LAPTOPS AND SCROLLING TERMINAL DISPLAY
Test Parameters	

CE_FINALTEST_FINAL_L1.DAT Project Name: VX670, Serial Number: 300-231-228 Test completed on 07 Aug, 2007 at 11:05:05. 230 Volts AC @ 50 Hz, 1-Phase Power N/R Deg C, N/R % RH, N/R kPa												
X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1458	66.0	42.9	23.1	0.1468	29.9	41.5	37.5	0.1490	16.4	27.9	38.1
P	7.2363	60.0	42.0	18.0	6.9055	28.0	38.7	34.3	6.9638	19.5	30.2	29.8
P	7.8738	60.0	43.2	16.8	7.5200	28.3	39.0	34.0	7.5592	20.7	31.4	28.6
P	8.0013	60.0	42.0	18.0	7.6293	27.9	38.6	34.4	8.2299	19.3	30.1	29.9
P	8.5113	60.0	42.4	17.6	8.2397	27.6	38.4	34.6	8.1728	19.3	30.1	29.9
P	9.0850	60.0	42.1	17.9	8.8230	26.4	37.2	35.8	8.7388	17.5	28.2	31.8

Lisn 3 Line

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 11:05:27 AM



CE_FINALTEST_FINAL_N.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 11:14:14.

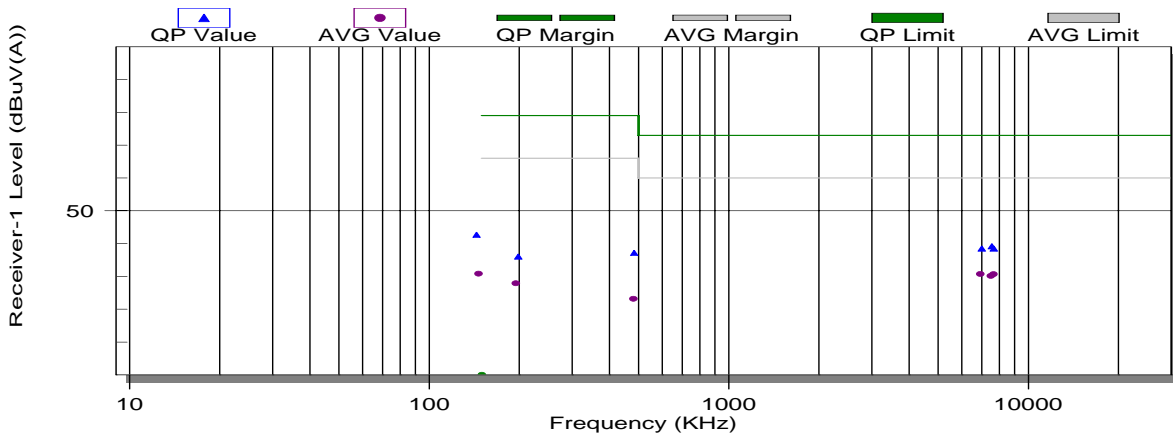
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1437	66.0	45.9	20.1	0.1441	31.0	42.7	36.3	0.1461	19.2	30.8	35.2
P	0.1935	66.0	42.8	23.2	0.1985	25.1	36.1	42.9	0.1947	16.9	27.9	38.1
P	0.4775	66.0	41.3	24.8	0.4834	26.8	37.2	41.8	0.4803	12.8	23.2	42.8
P	7.1725	60.0	41.8	18.2	6.9889	27.8	38.4	34.6	6.9191	20.0	30.7	29.3
P	7.6825	60.0	42.0	18.0	7.6643	27.7	38.5	34.5	7.6481	19.9	30.7	29.3
P	7.8100	60.0	42.3	17.7	7.5575	28.4	39.1	33.9	7.4926	19.4	30.1	29.9

Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 11:14:17 AM



CE_FINALTEST_L1_1.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 11:05:05.

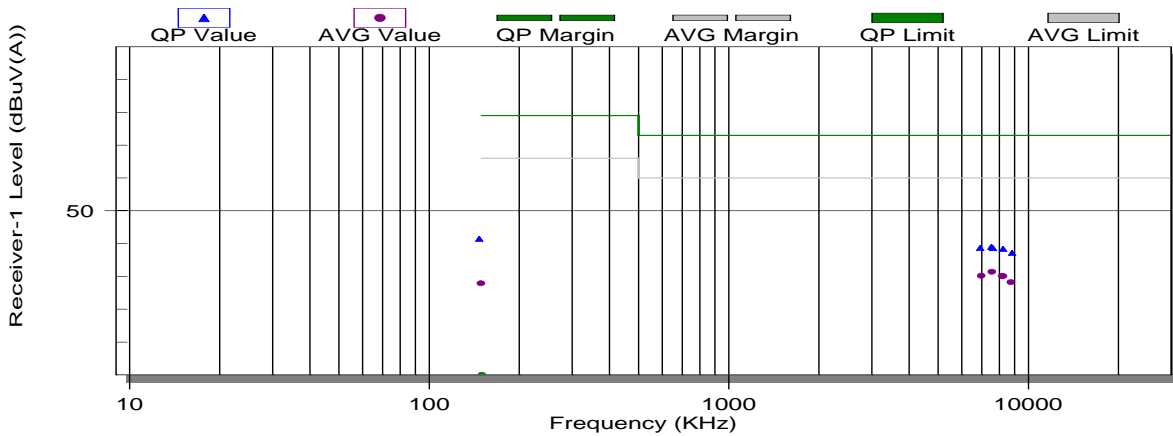
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1458	66.0	42.9	23.1	0.1468	29.9	41.5	37.5	0.1490	16.4	27.9	38.1
P	7.2363	60.0	42.0	18.0	6.9055	28.0	38.7	34.3	6.9638	19.5	30.2	29.8
P	7.8738	60.0	43.2	16.8	7.5200	28.3	39.0	34.0	7.5592	20.7	31.4	28.6
P	8.0013	60.0	42.0	18.0	7.6293	27.9	38.6	34.4	8.2299	19.3	30.1	29.9
P	8.5113	60.0	42.4	17.6	8.2397	27.6	38.4	34.6	8.1728	19.3	30.1	29.9
P	9.0850	60.0	42.1	17.9	8.8230	26.4	37.2	35.8	8.7388	17.5	28.2	31.8

Lisn 3 Line

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 11:05:26 AM



CE_FINALTEST_N_1.DAT

Project Name: VX670, Serial Number: 300-231-228

Test completed on 07 Aug, 2007 at 11:14:14.

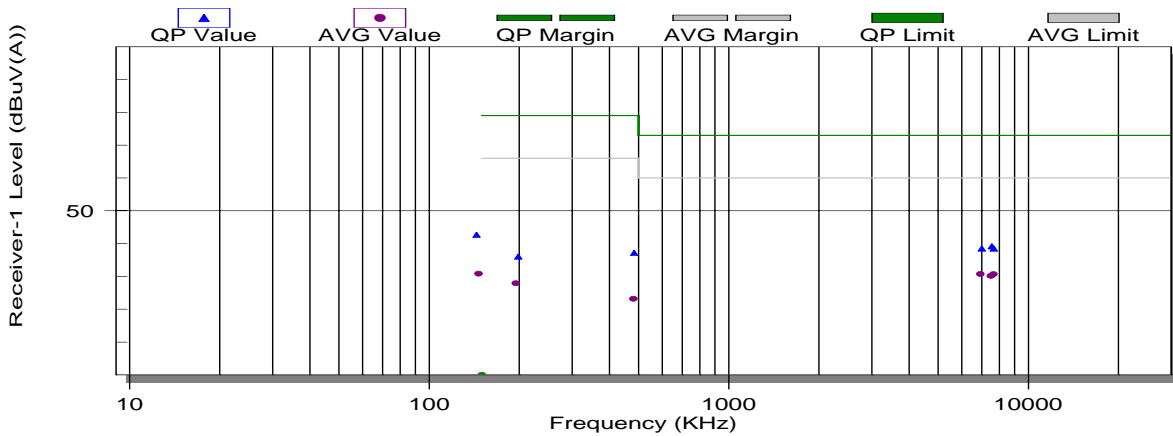
230 Volts AC @ 50 Hz, 1-Phase Power

N/R Deg C, N/R % RH, N/R kPa

X	Prescan Freq. (MHz)	Limit (dBuV) (A)	Max. Cor. Level (dBuV) (A)	Mar. (dB)	QPD Cor. Freq. (MHz)	QPD Value (dBuV) (A)	QPD Cor. Value (dBuV) (A)	QPD Mar. (dB)	Avg. D. Cor. Freq. (MHz)	Avg. D. Value (dBuV) (A)	Avg. D. Corr. Value (dBuV) (A)	Avg. D. Mar. (dB)
P	0.1437	66.0	45.9	20.1	0.1441	31.0	42.7	36.3	0.1461	19.2	30.8	35.2
P	0.1935	66.0	42.8	23.2	0.1985	25.1	36.1	42.9	0.1947	16.9	27.9	38.1
P	0.4775	66.0	41.3	24.8	0.4834	26.8	37.2	41.8	0.4803	12.8	23.2	42.8
P	7.1725	60.0	41.8	18.2	6.9889	27.8	38.4	34.6	6.9191	20.0	30.7	29.3
P	7.6825	60.0	42.0	18.0	7.6643	27.7	38.5	34.5	7.6481	19.9	30.7	29.3
P	7.8100	60.0	42.3	17.7	7.5575	28.4	39.1	33.9	7.4926	19.4	30.1	29.9

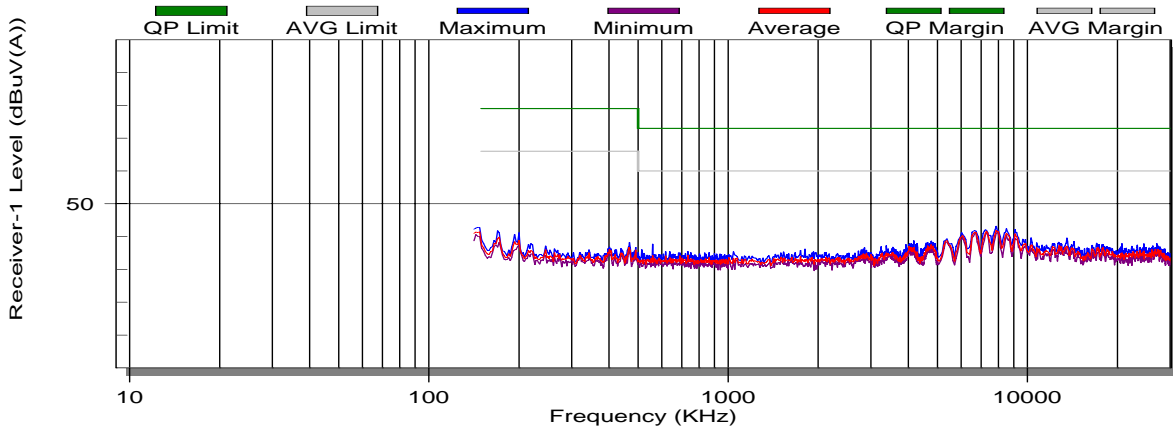
Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 11:14:15 AM



Lisn 3 Line

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 10:57:53 AM
(Corrected Data)
Updating Band No. 3 of 3



Lisn 3 Neutral

030641 / VX670 / 300-231-228 / 4 / 8/7/2007 @ 11:06:40 AM
(Corrected Data)
Updating Band No. 3 of 3

