



Tecnolab del Lago Maggiore S.r.l.
ISTITUTO DI PROVE, MISURE E RICERCHE, ING. MICHELE SETARO
Via dell'Industria, 20
28924 Verbania Fondotoce (VB) – Italy

TEST REPORT RP001611

EMC test for FCC Certification procedure on
PORT 1.1

31/01/2011

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CUSTOMER
Cliente

Schindler Elettronica SA
Via della Pace, 22
6600 Locarno (CH)
Italy

CONTRACT
Commessa

CO015108- 21/10/2008

TEST REPORT
Rapporto di Prova

RP001611

EMC test for FCC Certification procedure on PORT 1.1

APPLICABLE STANDARDS
Norme di riferimento

➤ **FCC Rules : Code of Federal Regulations (CFR) no. 47 Ch1
(10-1-09 Edition)
PART 15 - RADIO FREQUENCY DEVICES**

31/01/2011

ing. Marco Mai

ing. Danilo Prina

ing. Michele Setaro

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Date

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Redaction

Verifica Tecnica
Technical Check

Autorizzazione
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1. GENERAL REMARKS

1.1 Customer data

Customer:	Schindler Elettronica SA
Address:	Via della Pace, 22 6600 Locarno (CH) Italy

1.2 Identification of equipment and/or subsystem under test (EUT)

EUT (equipment or subsystem) n°:	1
Mark:	Schindler Elettronica SA
Model:	Port 1.1
FCC ID	XFIPORT11VER1
Acceptance code:	AC002809/1
Receiving date:	19/01/2011
Description:	Terminal lift. See Annex 1 and 3 of this test report.

1.3 Identification of auxiliary equipment not under test (AE)

AE (equipment or subsystem) n°:	1
Mark:	Netgear
Model:	ProSafe POE SIRTCH FS108P
Serial number:	1DL18B3D00672
Acceptance code:	AC002809/1
Receiving date:	19/01/2011
Description:	POE. See annex 2 of this test report.

1.4 Identification of connecting cables

Cable nr.:	CV1
Description and length:	AC power input cable. Gold Mark HO5VV-F 3G 0.75mm ² . F-N-PE. Length: 2m.
Cable nr.:	CV2
Description and length:	DC power input cable. LAN Shielded Cable; CAT 5. DAETWWYLER UNINET 5502 flex 4P FRNC/LSOH 523525.01

1.5 Sampling

The results shown in this Technical Report exclusively refer to the sample under test, taken away from the production by Customer. Extension of test results to the whole production is the responsibility of manufacturer/importer.

2. SCOPE

Scope of the test and the measurement is to supply the Customer with useful indications in order to evaluate EUT compliance with Electromagnetic Compatibility Reference Standards; the performed test plan is required from the manufacturer.

3. APPLICABLE DOCUMENTS

FCC Rules	FCC Rules : Code of Federal Regulations (CFR) no. 47 Ch1 (10-1-09 Edition) PART 15 - RADIO FREQUENCY DEVICES
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3.1 Applicability

Applicable parties regarding the certification procedure for intentional radiator operating within the bands 13.553 – 13.567 MHz.

According to the definition 15.3 (o)EUT is an Intentional Radiator operating within the band 13.553 – 13.567 MHz so it shall fulfil provisions of 47CFR part 15 Subpart C – intentional radiators – and section 15.225.

3.2 Definitions and glossary of terms

Applicable IEC 50 IEV Standard definitions.

AE	Auxiliary Equipment
CE	Conducted Emission
EMC	Electromagnetic Compatibility
EUT	Equipment Under Test
RE	Radiated Emission

3.3 Other definitions and abbreviations

GRP	Ground reference plane
BH	Biconical antenna in horizontal polarization
BV	Biconical antenna in vertical polarization
LH	Log-periodic antenna in horizontal polarization
LV	Log-periodic antenna in vertical polarization
Loop F	Loop antenna in frontal position
Loop L	Loop antenna in lateral position
Pass	In compliance with reference Standard
Fail	Not in compliance with reference Standard

4. EUT FUNCTIONAL DESCRIPTION

4.1 EUT description and operating method during tests

The PORT device is used to control domotic systems in a group or not. The system is used to get domotic system call from the user and then it dispatches them to get the most efficient domotic system to the user. It means the system is used to optimize the domotic systems traffic.

The system is also used, together with the domotic system, to give access to the building or building floor. In few words, the PORT is a user interface for the domotic system and access control build in a new technology way that use touch screen, color display and identification over Card reader.

4.2 Test set-up and EUT configuration

EUT is tested in continuous transmission powered with 230Vac/48Vdc POE (AE1).

5. TECHNICAL COMPETENCE

Technicians qualified for the execution of the tests are engineers with at least three months of experience in Measurements and Testing.



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6. TEST PERFORMED

6.1 General

6.1.1 Testing laboratory

Tests were performed at laboratory: Tecnolab del Lago Maggiore S.r.l., Via dell'Industria 20, 28924 Verbania Fondotoce (VB) ITALY.

6.1.2 List and description of tests

Test	Applicable Standard	Port	Paragraph of this test report	Result
Antenna requirement	47 CFR 15.203 /15.204	/	/	Use of permanently attached antenna shall be considered sufficient to comply the provisions of this section.
Conducted emissions measurements	47 CFR 15.207 (a)	AC Power port	6.2	Pass
Radiated emissions measurements	47 CFR 15.205 47 CFR 15.209	Enclosure port	6.3	Pass
Field strength (Operation outside the band 13.110-14.010 MHz)	47 CFR 15.225 (d)	Enclosure port	6.3	Pass
Field strength within assigned band	47 CFR 15.225 (a)	Enclosure port	6.4	Pass
Frequency stability	47 CFR 15.225 (e)	Enclosure port	6.5	Pass

6.1.3 Measurements uncertainty

The measurement uncertainties stated in this document are expressed as expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $K = 2$ corresponds to a confidence level of about 95%.

6.2 Conducted Emission measurements

Date:	28/01/2011																	
Enviromental condition:	Temperature=18-25°C – Humidity= 30-50%																	
Applicable Standard:	47 CFR 15.207 (a)																	
Test levels/Limits:	The reference limits for intentional radiators are: <table><tr><td>Frequency range</td><td>Limits (detector)</td></tr><tr><td>0.15 - 0.5 MHz</td><td>66-56 dBμV (QP)</td></tr><tr><td>"</td><td>56-46 dBμV (AVG)</td></tr><tr><td>0.5 - 5 MHz</td><td>56 dBμV (QP)</td></tr><tr><td>"</td><td>46 dBμV (AVG)</td></tr><tr><td>5 - 30 MHz</td><td>60 dBμV (QP)</td></tr><tr><td>"</td><td>50 dBμV (AVG)</td></tr></table>				Frequency range	Limits (detector)	0.15 - 0.5 MHz	66-56 dB μ V (QP)	"	56-46 dB μ V (AVG)	0.5 - 5 MHz	56 dB μ V (QP)	"	46 dB μ V (AVG)	5 - 30 MHz	60 dB μ V (QP)	"	50 dB μ V (AVG)
Frequency range	Limits (detector)																	
0.15 - 0.5 MHz	66-56 dB μ V (QP)																	
"	56-46 dB μ V (AVG)																	
0.5 - 5 MHz	56 dB μ V (QP)																	
"	46 dB μ V (AVG)																	
5 - 30 MHz	60 dB μ V (QP)																	
"	50 dB μ V (AVG)																	
Test procedure:	Test is performed on each wires (L1,L2) of the cable CV1 in the configuration of the top-table equipments with EUT1 48Vdc powered via AE1 and LISN.																	
Test set-up:	ANSI C63.4 See par. 4.2 and annex 4 of this test report.																	
Meas. Uncertainty:	3,48 dB																	
Test results:	PASS The emissions from the EUT conducted with PK detector are over the AVG limits; investigations with AVG detectors are necessary. The measurements performed are showed in following annexes: 5. L1: measurement with PK detector in the range 0.15-30 MHz; 6. L1: measurement with QP/AVG detector in the range 7.2- 7.5MHz; 7. L1: measurement with QP/AVG detector in the range 13.53-13.60MHz; 8. L2: measurement with PK detector in the range 0.15-30 MHz; 9. L2: measurement with QP/AVG detector in the range 13.53-13.59MHz; 10. L2: measurement with QP/AVG detector in the range 7.2- 7.5MHz;																	
Test instrumentation:																		
code	type	mark	model	Calibration until														
STRIC001	EMI receiver	Hewlett-Packard	8542E	29/03/2012														
STRET003	LISN 10 A	EMCO	3810/2	10/11/2012														
STATT001	transient limiter	Hewlett-Packard	11947A	13/11/2011														
STCAM001	semi-anechoic chamber	Panashield-TDK-Protecno	-	-														

6.3 Radiated Emission measurements

Date:	26-27/11/2010															
Enviromental condition:	Temperature= 18-25 °C – Humidity= 30-50%															
Applicable Standard:	47 CFR 15.205 / 47 CFR 15.209 / 47 CFR 15.225 (d)															
Test levels/Limits:	<p>The electric field radiated emissions is measured at a distance of 3 m from the EUT. The reference limits at 3 m are:</p> <table><tr><td>Frequency range</td><td>Limits (detector)</td></tr><tr><td>5-30 MHz</td><td>69.5 dBμV/m (QP)</td></tr><tr><td>30-88 MHz</td><td>40 dBμV/m (QP)</td></tr><tr><td>88-216 MHz</td><td>43.5 dBμV/m (QP)</td></tr><tr><td>216-960 MHz</td><td>46 dBμV/m (QP)</td></tr><tr><td>960-1000 MHz</td><td>54 dBμV/m (QP)</td></tr></table> <p>In accordance with part 15.31 (f) 2, where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performer at a separation distance. The applied formula for limits at 30 meter is : Extrapolation (dB)= 40log (300 meter/30 meter) = +80dB Extrapolation (dB)= 40log (30 meter/30 meter) = +40dB</p>				Frequency range	Limits (detector)	5-30 MHz	69.5 dB μ V/m (QP)	30-88 MHz	40 dB μ V/m (QP)	88-216 MHz	43.5 dB μ V/m (QP)	216-960 MHz	46 dB μ V/m (QP)	960-1000 MHz	54 dB μ V/m (QP)
Frequency range	Limits (detector)															
5-30 MHz	69.5 dB μ V/m (QP)															
30-88 MHz	40 dB μ V/m (QP)															
88-216 MHz	43.5 dB μ V/m (QP)															
216-960 MHz	46 dB μ V/m (QP)															
960-1000 MHz	54 dB μ V/m (QP)															
Test procedure:	<p>Measurements are performed with horizontal and vertical polarization of Loop, biconical and log-periodic antennas. The antenna was positioned between 1 and 4 meters high. EUT1 was located on a turntable, the turntable was rotated fully from 0° to 360°.</p> <p>It was recorded the highest level of the electromagnetic radiation disturbance at each frequency.</p>															
Test set-up:	<p>ANSI C63.4 See par. 4.2 and annex 11 of this test report.</p>															
Measurement Uncertainty:	5.2 dB.															
Test results:	<p>PASS</p> <p>The radiated emissions from the EUT was conducted with PK detector. Because some measurements were over the limits, it was not necessary an investigations with QP detector. The performed measurements are showed in the annexes:</p> <ul style="list-style-type: none">12. BH: measurement with PK detector in the range 30-216MHz;13. BV: measurement with PK detector in the range 30-216MHz;14. LH measurement with PK detector in the range 216-1000 MHz;15. LH measurement with QP detector in the range 724-726 MHz;16. LH measurement with QP detector in the range 726-730 MHz;17. LV measurement with PK detector in the range 216-1000 MHz;18. Loop F measurement with PK detector in the range 5-30 MHz;19. Loop L measurement with PK detector in the range 5-30 MHz. <p>The radiated emissions are under reference limits.</p>															
Test instrumentation:																
code	type	mark	model	Calibration until												
STRIC001	EMI receiver	Hewlett-Packard	8542E	29/03/2012												
STANT019	log-periodic antenna	Emco	3148	04/01/2013												
STANT020	biconical antenna	Emco	3110B	09/02/2011												
STANT009	Loop Antenna	EMCO	6507	19/10/2013												
STCAM001	semi-anechoic chamber	Panashield-TDK-Protecto	-	-												

6.4 Field strength within assigned band

Date:	28/03/2011			
Enviromental condition:	Temperature= 18-25 °C – Humidity= 30-50%			
Applicable Standard:	47 CFR 15.225 (a)			
Test levels/Limits:	Frequency: 13.5600 MHz. 15848 μV/m at 30m 84 dBμV/m at 30m 124 dBμV/m at 3m			
Test procedure:	Measured performed at 3m.			
Test set-up:	ANSI C63.4			
Measurement Uncertainty:	<1.5 dB.			
Test results:	<p>The performed measure is shown in annex: 20. Loop: measurement with PK detector in the range 13.06-14.06 MHz;</p> <p>In accordance with part 15.31 (f) 2, where the measurement distance was specified to be 30 or 300 meters, a correction factor was applied in order to permit measurement to be performer at a separation distance. The applied formula for limits at 30 meter is : Extrapolation (dB)= 40log (300 meter/30 meter) = +80dB Extrapolation (dB)= 40log (30 meter/30 meter) = +40dB</p> <p>PASS</p>			
Test instrumentation:				
code	type	mark	model	Calibration until
STRIC016	EMC Analyzer	Hewlett-Packard	E7405A	11/11/2013
STANT009	Loop Antenna	EMCO	6507	19/10/2013
STCAM001	Semi-anechoic chamber	Panashield-TDK-Protecno	-	-

6.5 Frequency stability

Date:	28/03/2011																																																																																													
Enviromental condition:	Temperature= 18-25 °C – Humidity= 30-50%																																																																																													
Applicable Standard:	47 CFR 15.225 (c)																																																																																													
Test levels/Limits:	± 0.01% of operating frequency. Frequency drift limits: ± 1.3560 kHz																																																																																													
Test procedure:	Frequency range: 13.553 – 13.567 MHz Power supply: external power supply source Power supply variation: form 85% to 110% of the rated supply voltage. Modulation state: ON Frequency of work: 13.5600 MHz																																																																																													
Test set-up:	ANSI C63.4																																																																																													
Test results:	<table><tr><th colspan="2">Test condition</th><th rowspan="2">Measured frequency (MHz)</th><th rowspan="2">Frequency drift (kHz)</th></tr><tr><th>Power supply voltage</th><th>Temperature</th></tr><tr><td>48 V</td><td>- 20 °C</td><td>13560.345</td><td>+0.34</td></tr><tr><td>48 V</td><td>-10 °C</td><td>13560.331</td><td>+0.33</td></tr><tr><td>48 V</td><td>0 °C</td><td>13560.386</td><td>+0.39</td></tr><tr><td>48 V</td><td>10 °C</td><td>13560.352</td><td>+0.35</td></tr><tr><td>48 V</td><td>20 °C</td><td>13560.293</td><td>+0.29</td></tr><tr><td>48 V</td><td>30 °C</td><td>13560.321</td><td>+0.32</td></tr><tr><td>48 V</td><td>40 °C</td><td>13560.412</td><td>+0.41</td></tr><tr><td>48 V</td><td>50°C</td><td>13560.396</td><td>+0.40</td></tr></table> <table><tr><th colspan="2">Test condition</th><th rowspan="2">Measured frequency (MHz)</th><th rowspan="2">Frequency drift (kHz)</th></tr><tr><th>Power supply voltage</th><th>Temperature</th></tr><tr><td>24 V</td><td>- 20 °C</td><td>13560.441</td><td>+0.44</td></tr><tr><td>24 V</td><td>-10 °C</td><td>13560.364</td><td>+0.36</td></tr><tr><td>24 V</td><td>0 °C</td><td>13560.432</td><td>+0.43</td></tr><tr><td>24 V</td><td>10 °C</td><td>13560.365</td><td>+0.37</td></tr><tr><td>24 V</td><td>20 °C</td><td>13560.397</td><td>+0.40</td></tr><tr><td>24 V</td><td>30 °C</td><td>13560.433</td><td>+0.43</td></tr><tr><td>24 V</td><td>40 °C</td><td>13560.415</td><td>+0.41</td></tr><tr><td>24 V</td><td>50°C</td><td>13560.311</td><td>+0.31</td></tr></table> <table><tr><th colspan="2">Test condition</th><th rowspan="2">Measured frequency (MHz)</th><th rowspan="2">Frequency drift (kHz)</th></tr><tr><th>Power supply voltage</th><th>Temperature</th></tr><tr><td>21.6 V</td><td>20 °C</td><td>13560.339</td><td>+0.40</td></tr><tr><td>55.2 V</td><td>20 °C</td><td>13560.411</td><td>+0.41</td></tr></table>				Test condition		Measured frequency (MHz)	Frequency drift (kHz)	Power supply voltage	Temperature	48 V	- 20 °C	13560.345	+0.34	48 V	-10 °C	13560.331	+0.33	48 V	0 °C	13560.386	+0.39	48 V	10 °C	13560.352	+0.35	48 V	20 °C	13560.293	+0.29	48 V	30 °C	13560.321	+0.32	48 V	40 °C	13560.412	+0.41	48 V	50°C	13560.396	+0.40	Test condition		Measured frequency (MHz)	Frequency drift (kHz)	Power supply voltage	Temperature	24 V	- 20 °C	13560.441	+0.44	24 V	-10 °C	13560.364	+0.36	24 V	0 °C	13560.432	+0.43	24 V	10 °C	13560.365	+0.37	24 V	20 °C	13560.397	+0.40	24 V	30 °C	13560.433	+0.43	24 V	40 °C	13560.415	+0.41	24 V	50°C	13560.311	+0.31	Test condition		Measured frequency (MHz)	Frequency drift (kHz)	Power supply voltage	Temperature	21.6 V	20 °C	13560.339	+0.40	55.2 V	20 °C	13560.411	+0.41
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STSCA005	Climatic chamber	ANGELANTONI Industrie S.p.A.	HYGROS 1200	23/10/2012																																																																																										
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7. MODIFICATION EXECUTED BY CLIENT

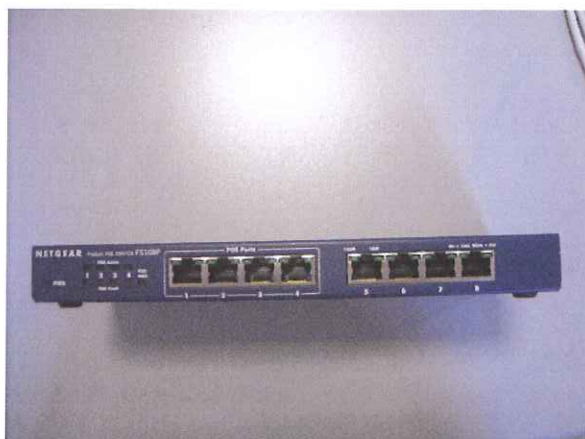
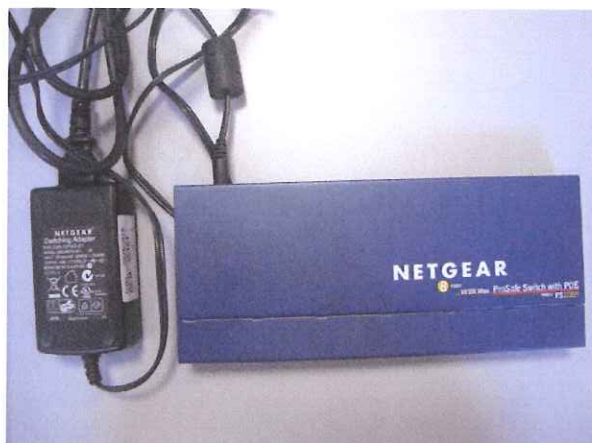
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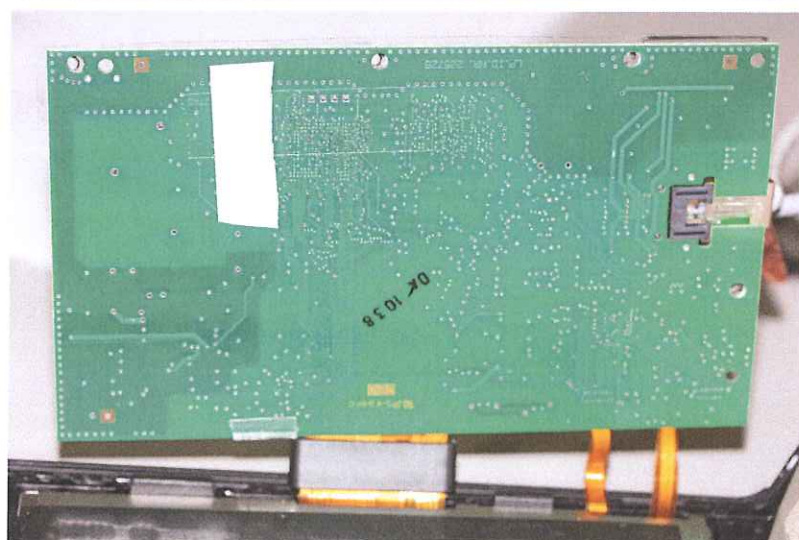
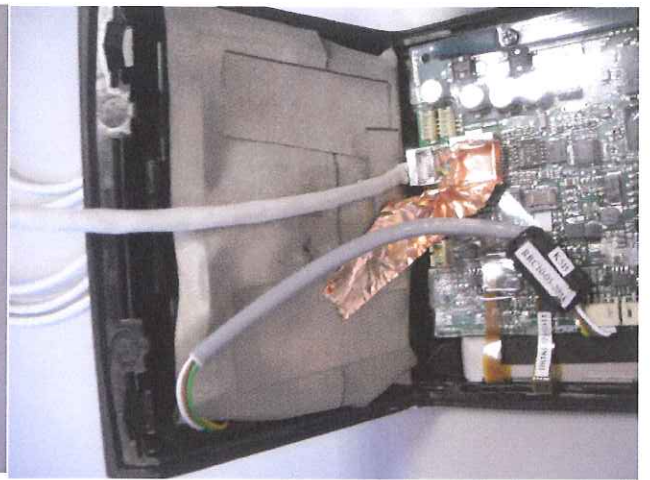
- Adding a ferrite on USB cable. Type: Richco K5B RRC10-05-20
- Adding a ferrite on flat display cable. Type: Richco A5 RFS2-27-12
- Shielded ethernet cable: CAT 5
- Shielding panel on card-reader board connected to Ethernet connector.

8. ANNEXES


Nr.	Description
1	External view description
2	POE (Power External Ethernet)
3	Internal view description
4	Conducted emissions set-up
5-10	Conducted emissions results
11	Radiated emission set-up
12-19	Radiated emission results
20	Field strength within assigned band results
21	Labelling position





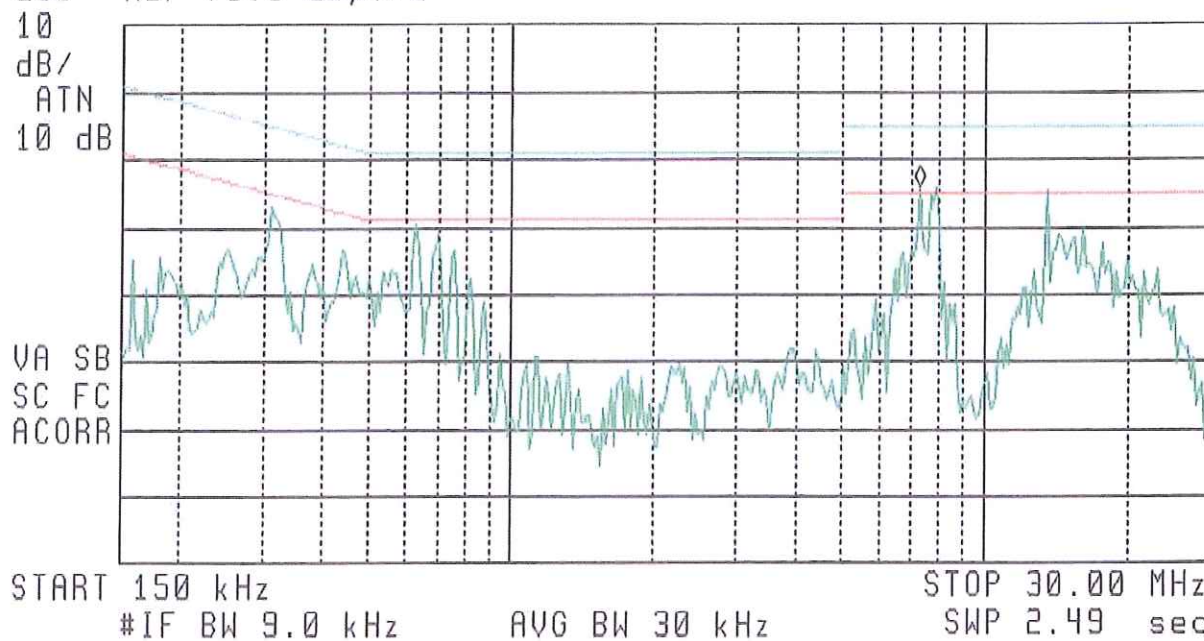




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ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 7.29 MHz
51.21 dB μ V/m

LOG REF 75.0 dB μ V/m



 12:23:11 JAN 28, 2011 PORT 1.1 L1 F02

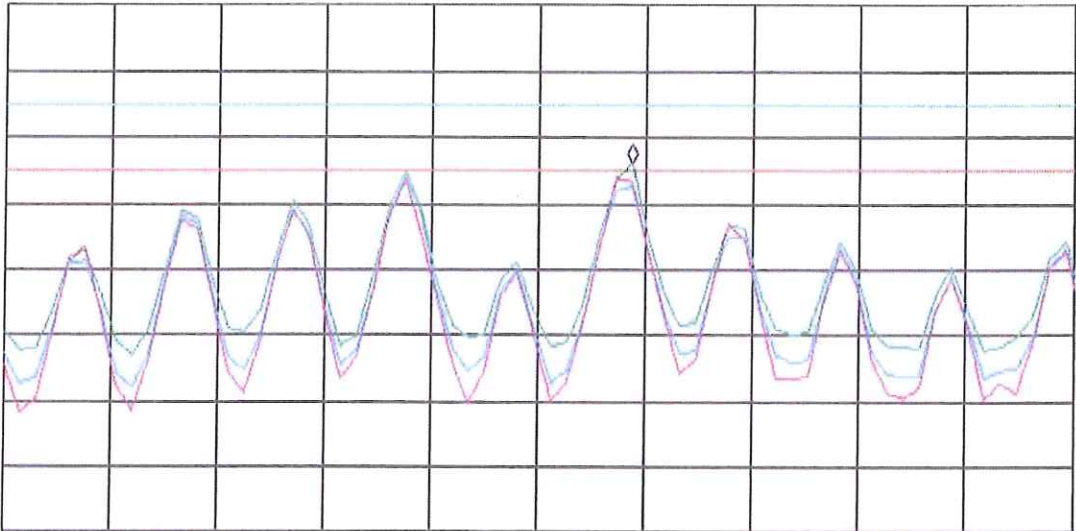
MARKER

FREQ	7.376 MHz
PEAK	51.1 dB μ V/m
QP	47.5 dB μ V/m
AVG	48.3 dB μ V/m


LOG REF 75.0 dB μ V/m

10
dB/
ATN
10 dB

VA VB
VC FC
ACORR



START 7.2000 MHz STOP 7.5000 MHz
#IF BW 9.0 kHz AVG BW 30 kHz SWP 50.0 msec

 12:10:45 JAN 28, 2011 PORT 1.1 L1 F03

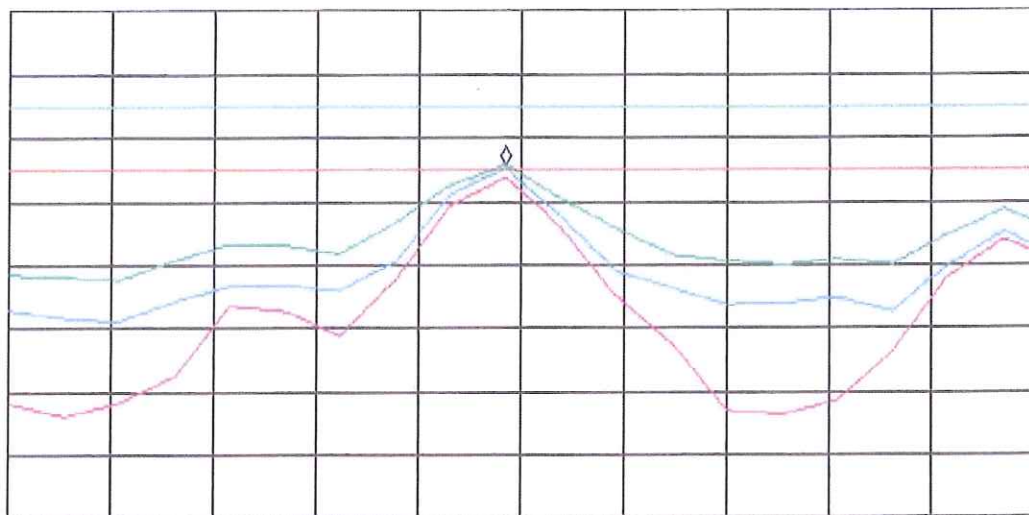
MARKER

FREQ	13.56 MHz
PEAK	50.7 dB μ V/m
QP	50.2 dB μ V/m
AVG	48.7 dB μ V/m

LOG REF 75.0 dB μ V/m

10
dB/
ATN
10 dB

VA VB
VC FC
ACORR



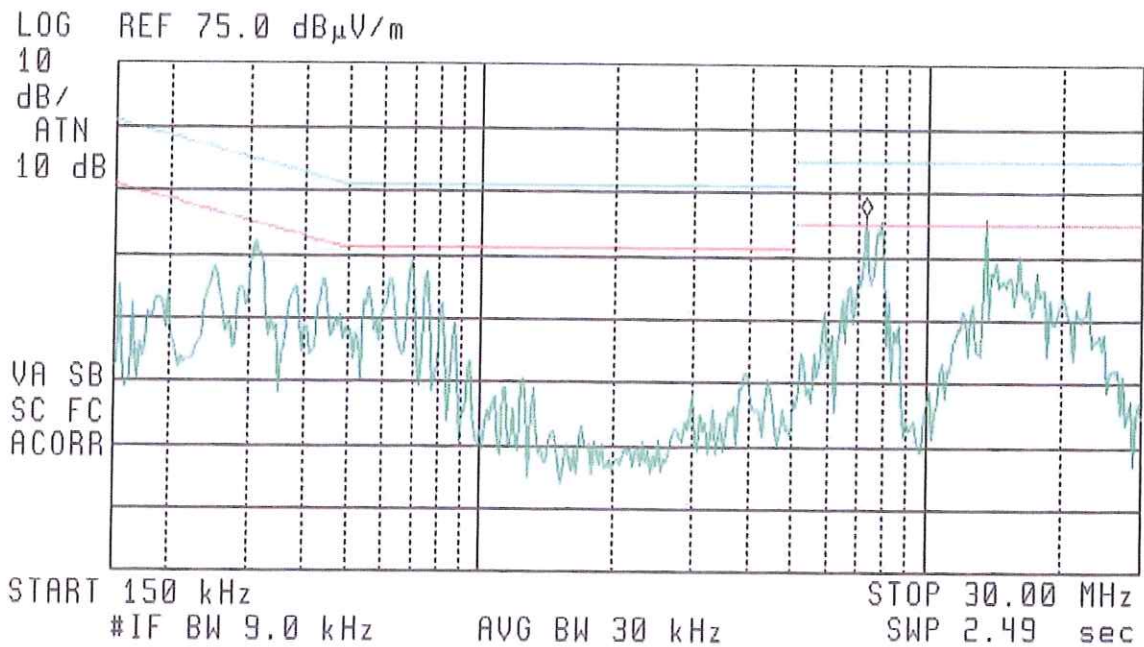
START 13.52084 MHz
#IF BW 9.0 kHz

AVG BW 30 kHz

STOP 13.60459 MHz
SWP 50.0 msec

 12:53:16 JAN 28, 2011 PORT 1.1 L2 F04

ACTU DET: PEAK
MEAS DET: PEAK QP AVG
MKR 7.29 MHz
51.30 dB μ V/m



 12:59:00 JAN 20, 2011 PORT 1.1 L2 F05

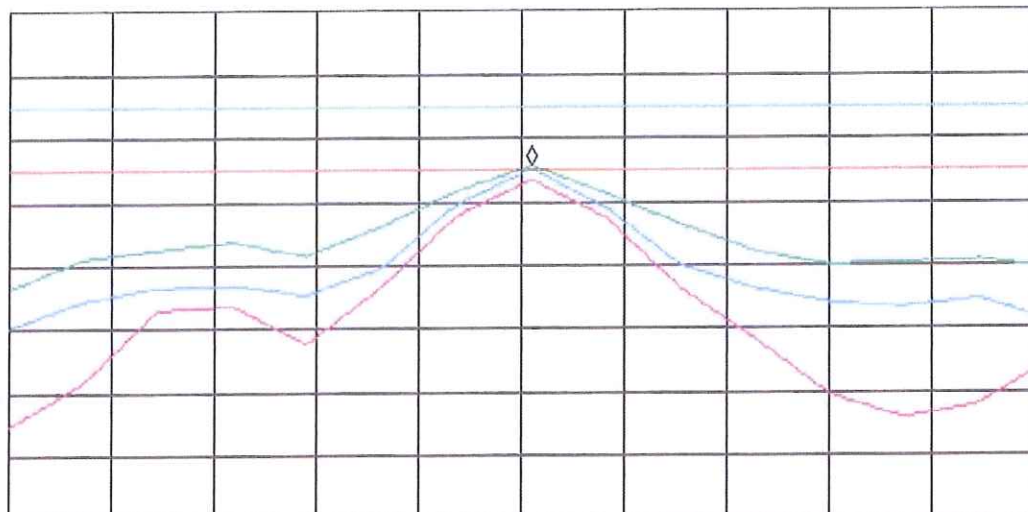
MARKER

FREQ	13.56 MHz
PEAK	50.6 dB μ V/m
QP	50.1 dB μ V/m
AVG	48.4 dB μ V/m

LOG REF 75.0 dB μ V/m

10
dB/
ATN
10 dB

VA VB
VC FC
ACORR



START 13.52929 MHz

#IF BW 9.0 kHz

AVG BW 30 kHz

STOP 13.59132 MHz

SWP 50.0 msec

 13:14:19 JAN 20, 2011 PORT 1.1 L2 F06

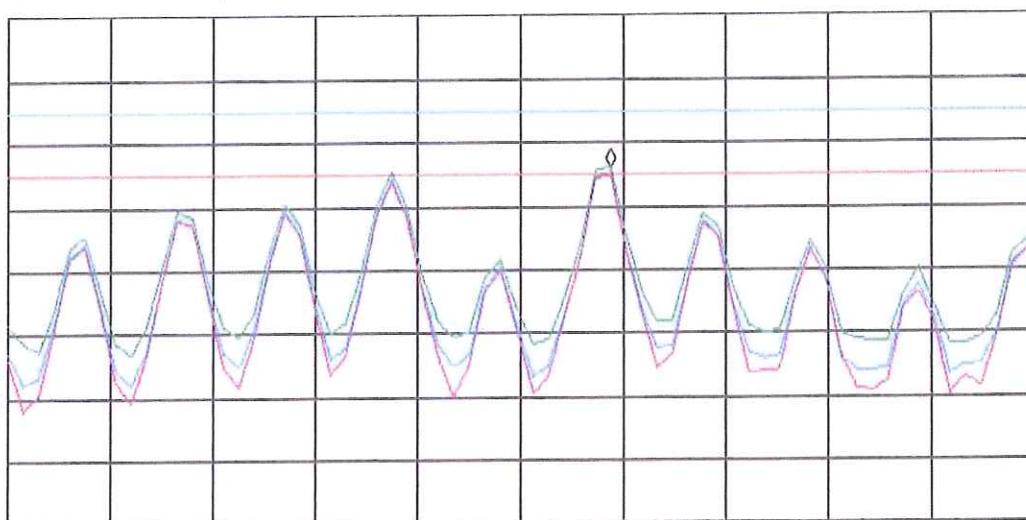
MARKER

FREQ	7.376 MHz
PEAK	51.1 dB μ V/m
QP	50.3 dB μ V/m
AVG	49.8 dB μ V/m

LOG REF 75.0 dB μ V/m

10
dB/
ATN
10 dB

VA VB
VC FC
ACORR



START 7.2000 MHz

#IF BW 9.0 kHz

AVG BW 30 kHz

STOP 7.5000 MHz

SWP 50.0 msec



5-30 MHz



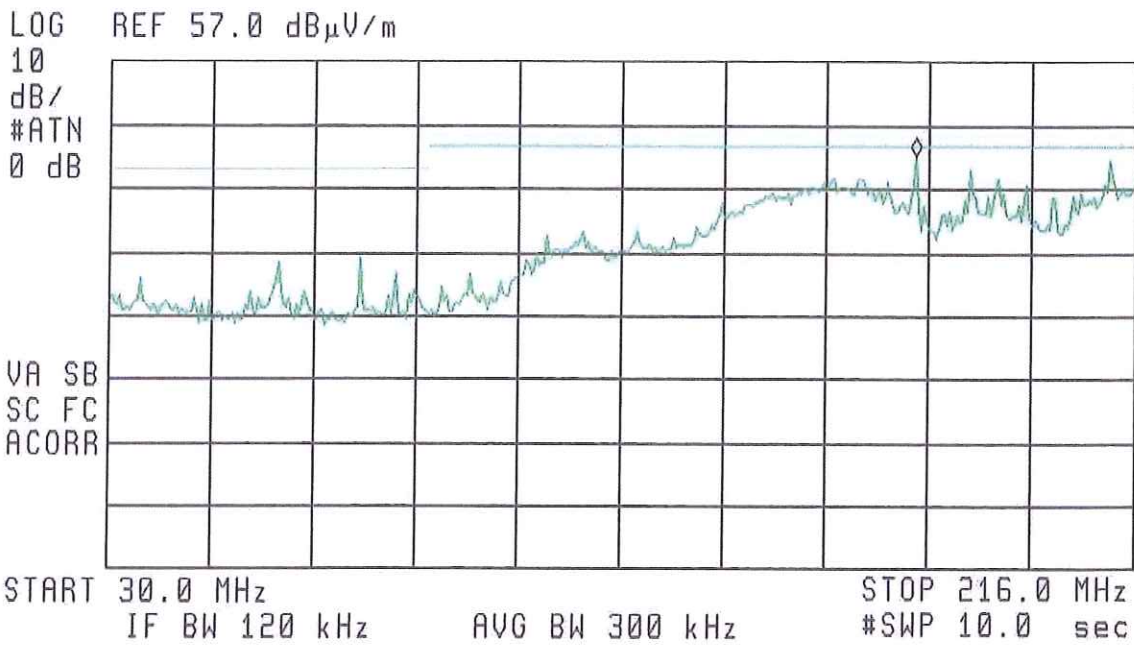
30-216 MHz




216-1000 MHz

 13:23:15 JAN 26, 2011 PORT 1.1 1m H F01

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 176.5 MHz
42.24 dB μ V/m

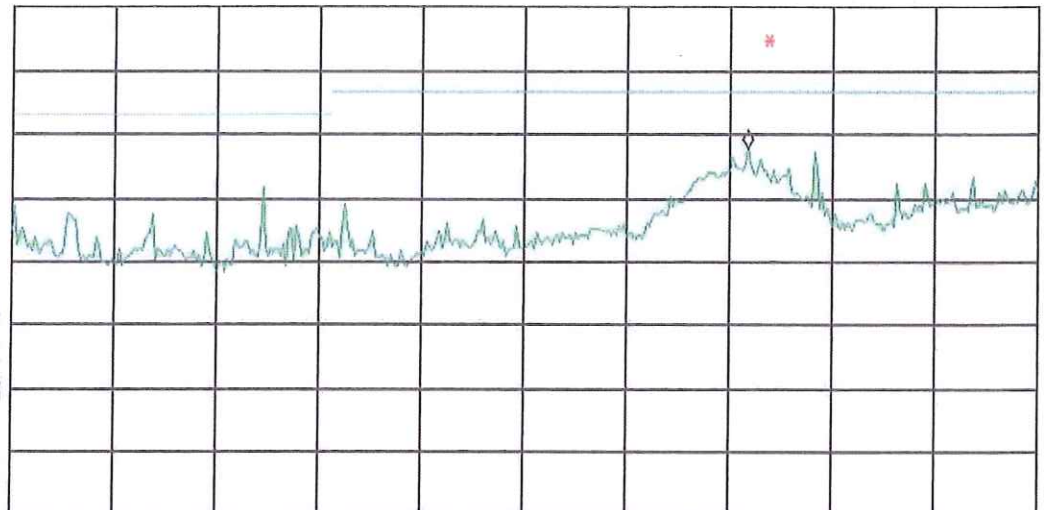


 13:28:40 JAN 26, 2011 PORT 1.1 1m V F02

ACTV DET: PEAK
 MEAS DET: PEAK QP AVG
 MKR 163.5 MHz
 34.85 dB μ V/m


LOG REF 57.0 dB μ V/m

10
 dB/
 #ATN
 0 dB



VA SB
 SC FC
 ACORR

START 30.0 MHz IF BW 120 kHz AVG BW 300 kHz STOP 216.0 MHz
 #SWP 10.0 sec

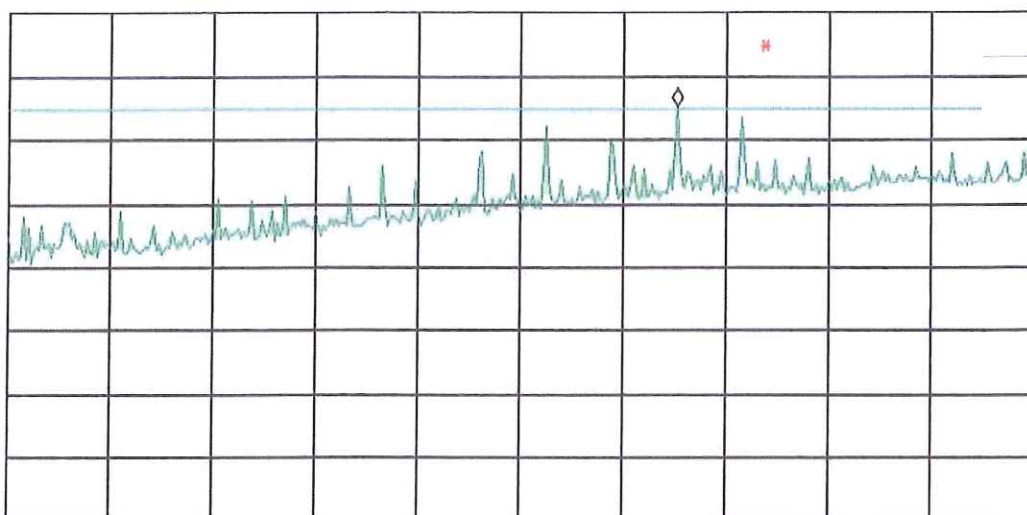
 11:42:56 JAN 27, 2011 PORT 1.1 H 1m F03

ACTV DET: PEAK
 MEAS DET: PEAK QP AVG
 MKR 727.6 MHz
 46.10 dB μ V/m

LOG REF 61.0 dB μ V/m

10
 dB/
 #ATN
 0 dB

VA SB
 SC FC
 ACORR




START 216.0 MHz

IF BW 120 kHz

AVG BW 300 kHz

STOP 1.0000 GHz

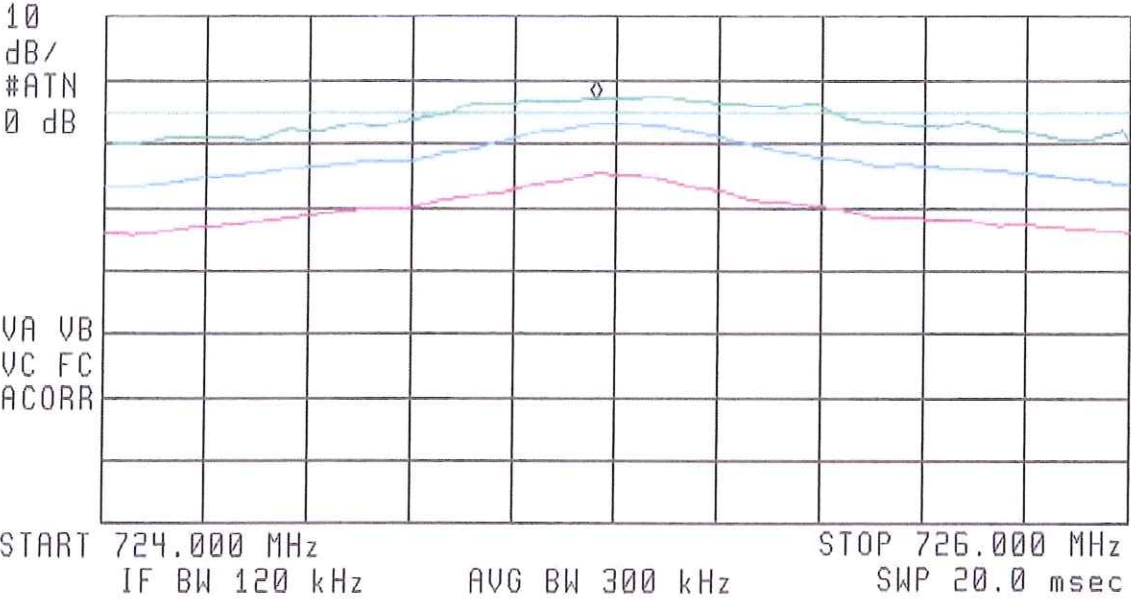
#SWP 10.0 sec


 11:40:16 JAN 27, 2011 PORT 1.1 H 1m F04

MARKER

FREQ	725.0 MHz
PEAK	48.0 dB μ V/m
QP	44.2 dB μ V/m
AVG	36.2 dB μ V/m

LOG REF 61.0 dB μ V/m

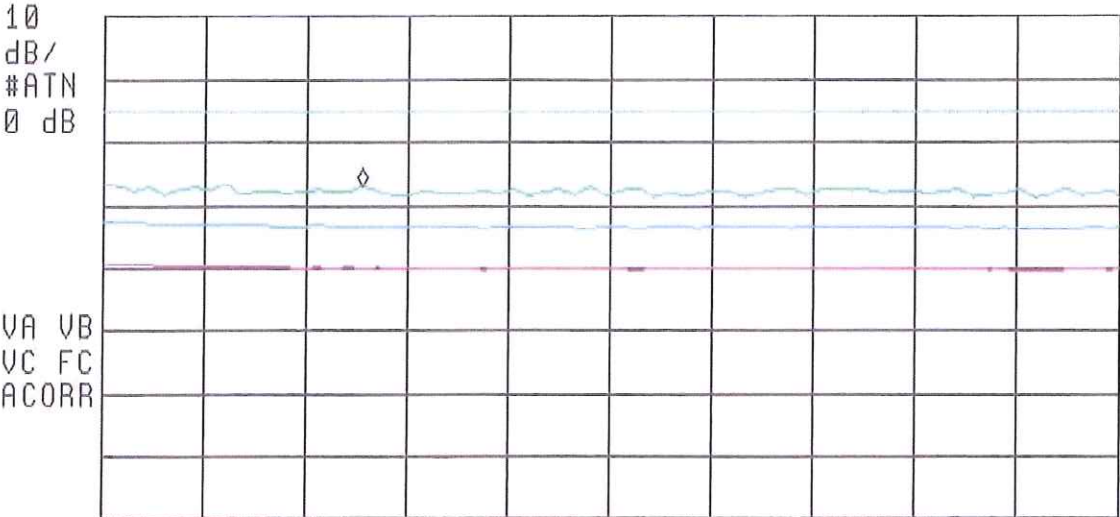


 17:17:20 APR 04, 2011 PORT 1.1 H 1m F04-b

MARKER

FREQ	727.0 MHz
PEAK	34.0 dB μ V/m
QP	27.6 dB μ V/m
AVG	20.9 dB μ V/m

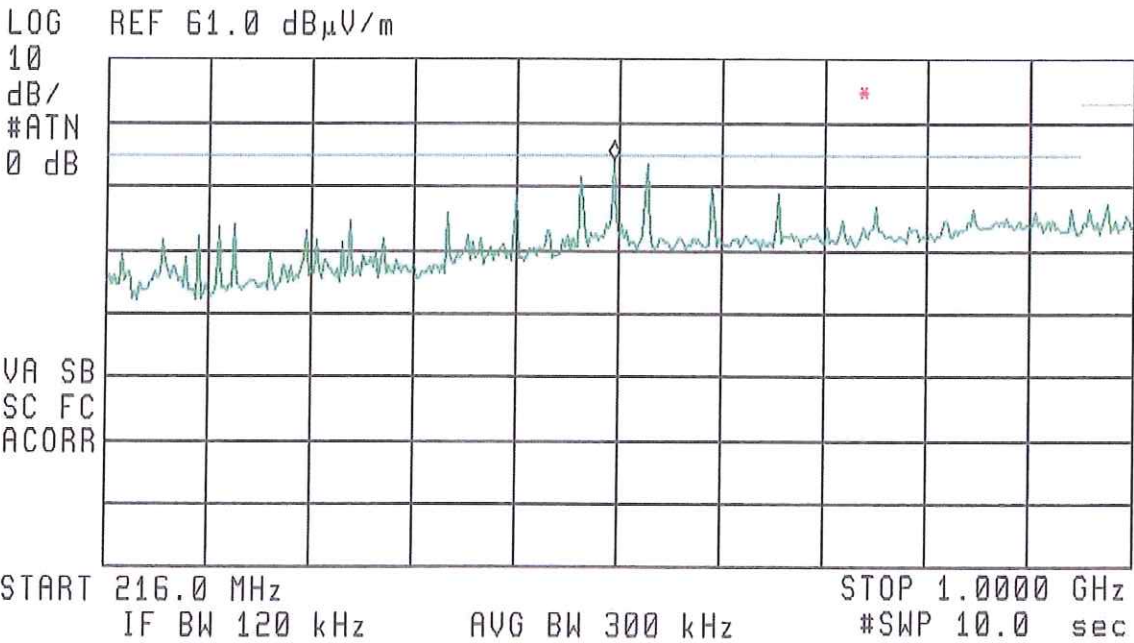
LOG REF 61.0 dB μ V/m




VA VB
VC FC
ACORR

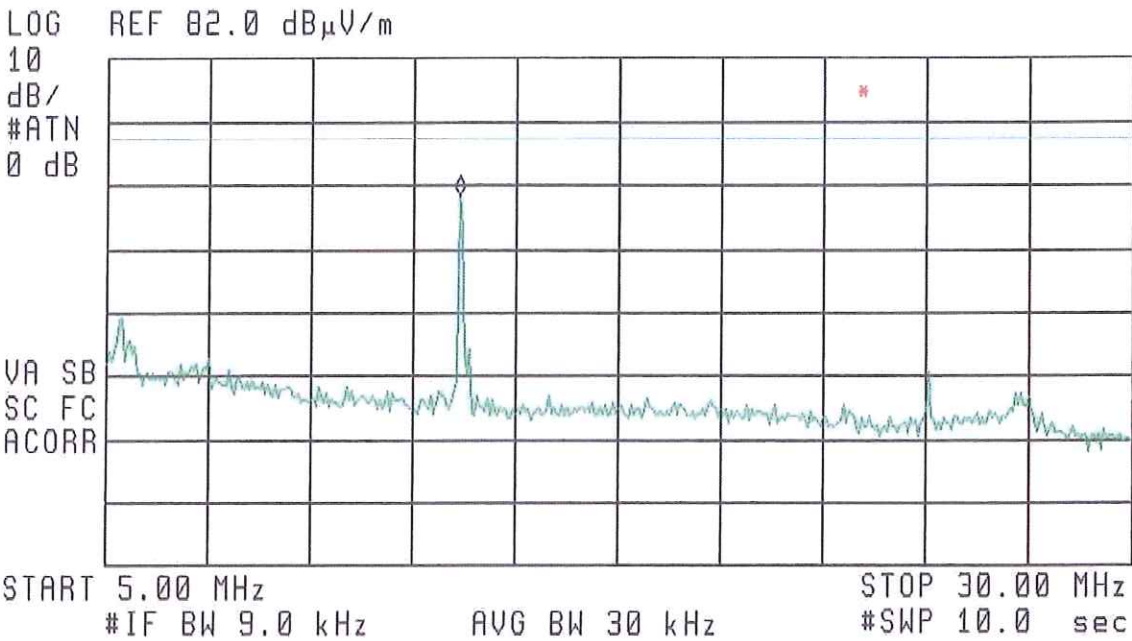
 11:59:11 JAN 27, 2011 PORT 1.1 V 1m F05

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 604.1 MHz
45.30 dB μ V/m



 15:12:59 JAN 27, 2011 PORT 1.1 FRONT 1m F06

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 13.63 MHz
60.37 dB μ V/m



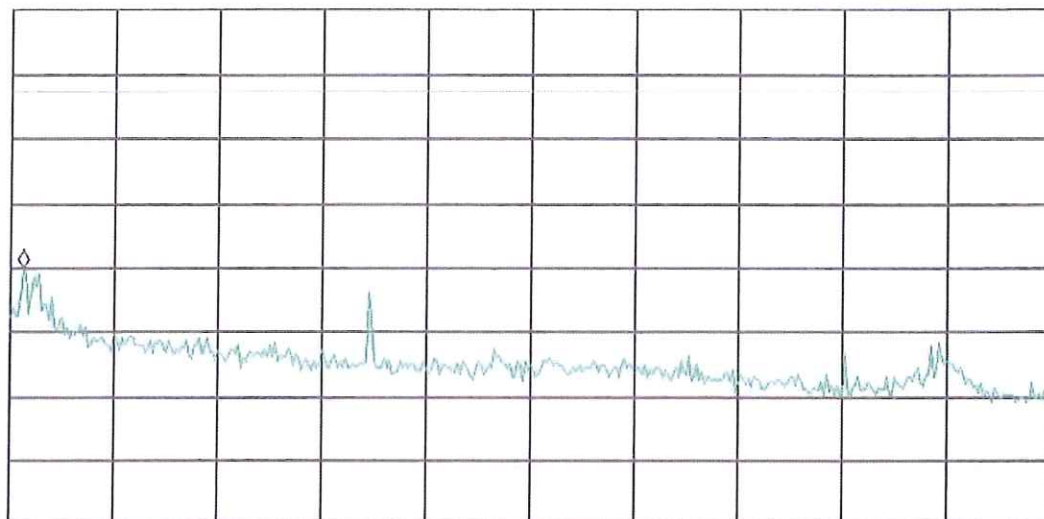
 15:15:08 JAN 27, 2011 PORT 1.1 LATERAL 1m F07

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 5.31 MHz
41.73 dB μ V/m

LOG REF 02.0 dB μ V/m

10
dB/
#ATN
0 dB

VA SB
SC FC
ACORR



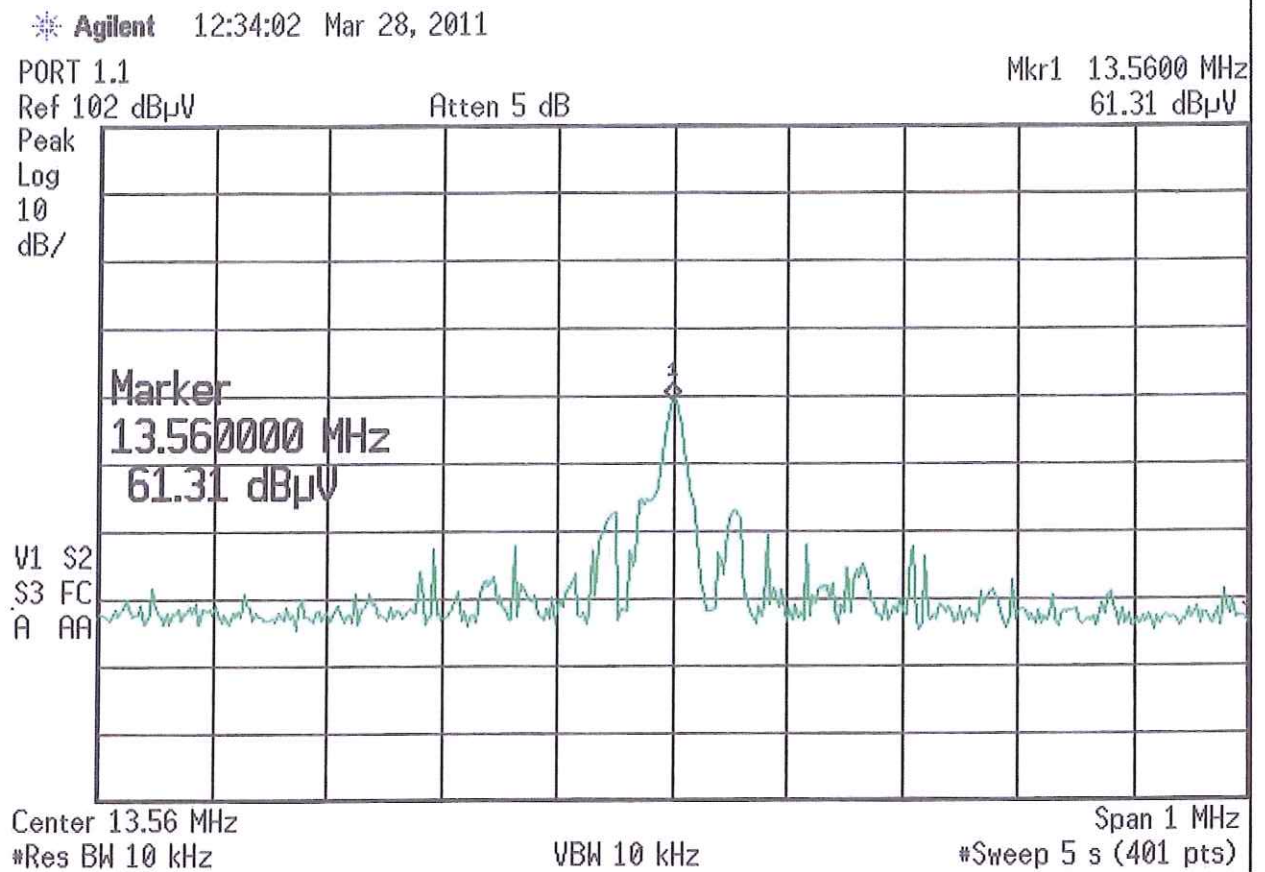
START 5.00 MHz

#IF BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz

#SWP 10.0 sec





-----END OF TEST REPORT RP001611-----