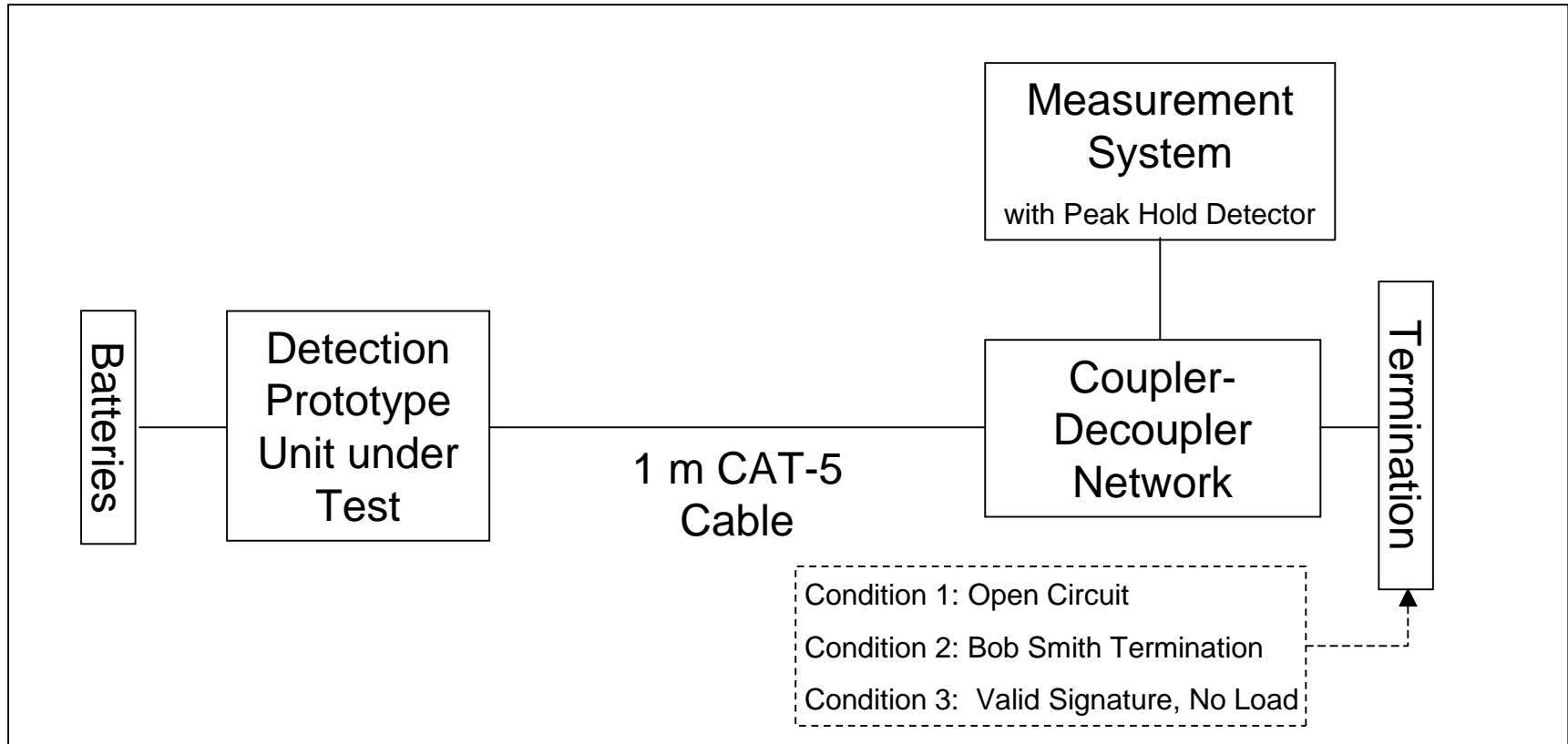


Comparative CISPR22 Class B Telecom-Port Conducted Emissions for the *Resistive Prototype and Coupled Diode Prototype*

John Jetzt - Avaya, Inc.



CISPR22 Class B Telecom-Port Conducted Emissions Test Setup



CISPR22 Class B Telecom-Port Conducted Emissions

Summary of Test Results

Test	Prototype Unit	Termination	Result	Margin (dB)
T1	Resistive	Open Circuit	Pass	25
T2	Resistive	Bob Smith	Pass	25
T3	Resistive	Valid Signature, No Load	Pass	25
T4	Coupled Diode	Open Circuit	Pass	25
T5	Coupled Diode	Bob Smith	Pass	25
T6	Coupled Diode	Valid Signature, No Load	Fail	-22

Conclusions:

- The detection process itself of either unit does not contribute to CISPR22 telecom port conducted emissions.
- When full power is applied, the Coupled Diode unit appears to exhibit the conducted emissions of a dc-dc converter.



Resistive Prototype, battery powered, open circuit termination

T1

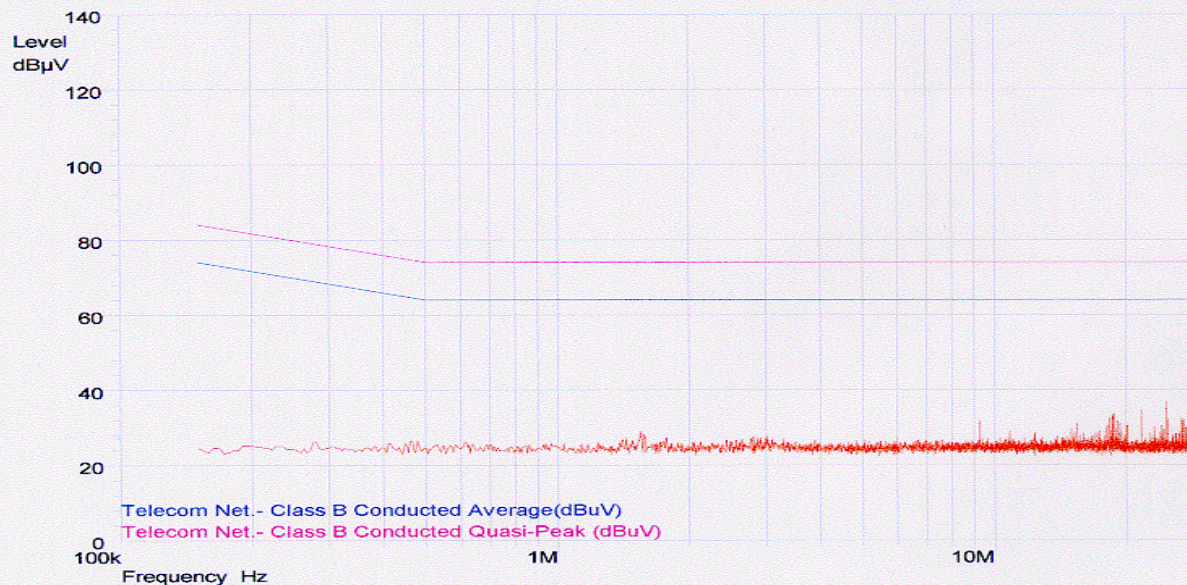
NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998)

Resistance Signature Unit (with battery) - open circuit 10/31/00

Schaffner-Chase EMC Emission Measuring Software EP59980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 17:04



Page 1

NOTE: Solid Circle(s) indicate Conducted Average results.

AVAYA COMMUNICATION



Resistive Prototype, battery powered, Bob Smith termination

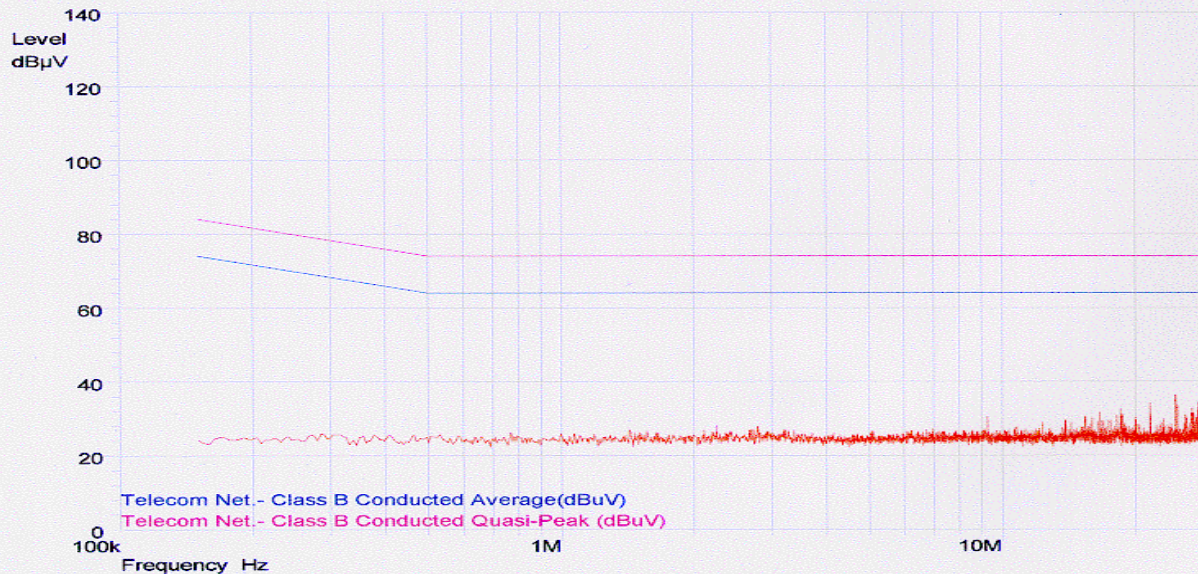
T2

NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998) Resistance Signature Unit (with battery) - Bob Smith termination 10/31/00

Schaffner-Chase EMC Emission Measuring Software EPS9980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 17:08



Page 1

NOTE: Solid Circle(s) indicate Conducted Average results.

AVAYA COMMUNICATION



Resistive Prototype, battery powered, valid signature, no load

T3

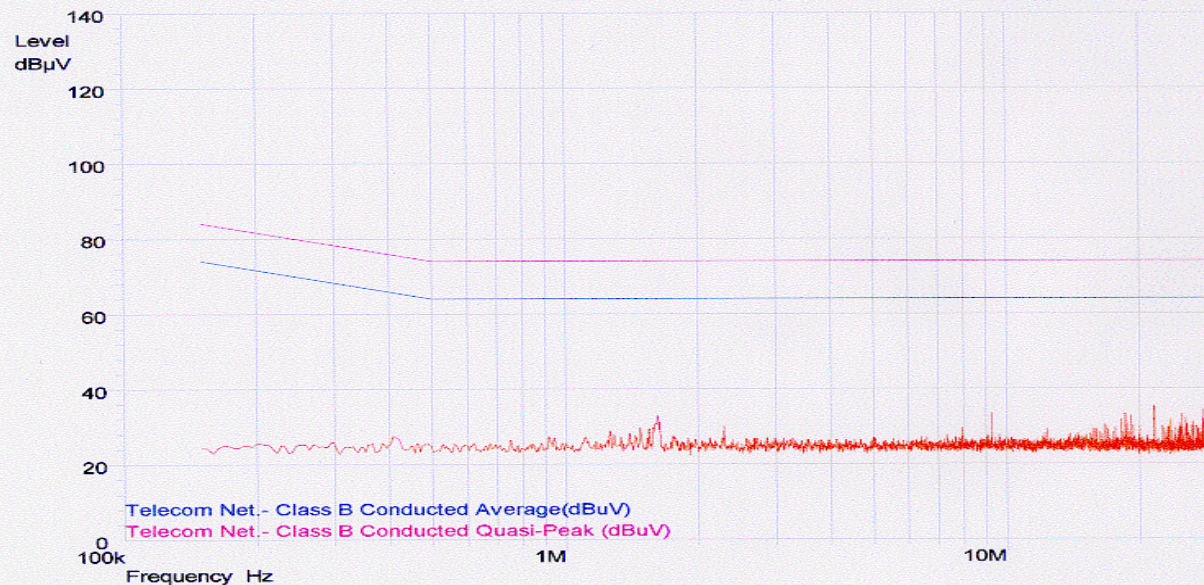
NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998)

Resistance Signature Unit (with battery) - Proper signature, but no load 10/31/00

Schaffner-Chase EMC Emission Measuring Software EPS9980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 17:13



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NOTE: Solid Circle(s) indicate Conducted Average results.

AVAYA COMMUNICATION



Couple Diode Prototype, battery powered, open circuit termination

T4

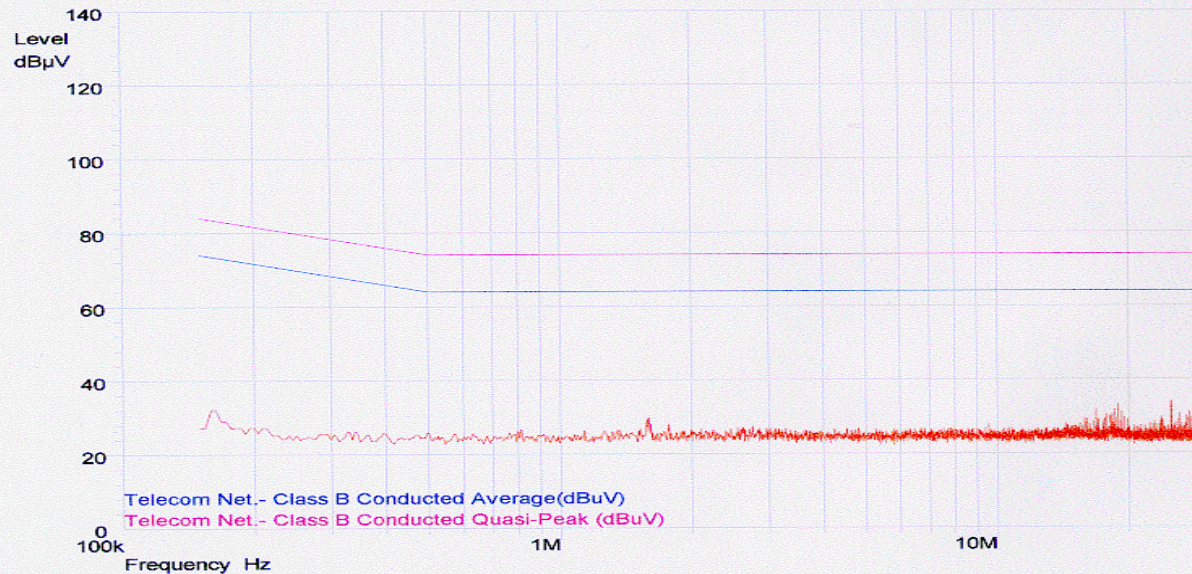
NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998)

Nortel Unit (with batteries) - open circuit 10/31/00

Schaffner-Chase EMC Emission Measuring Software EPS9980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 16:42



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NOTE: Solid Circle(s) indicate Conducted Average results.

AVAYA COMMUNICATION



Couple Diode Prototype, battery powered, Bob Smith termination

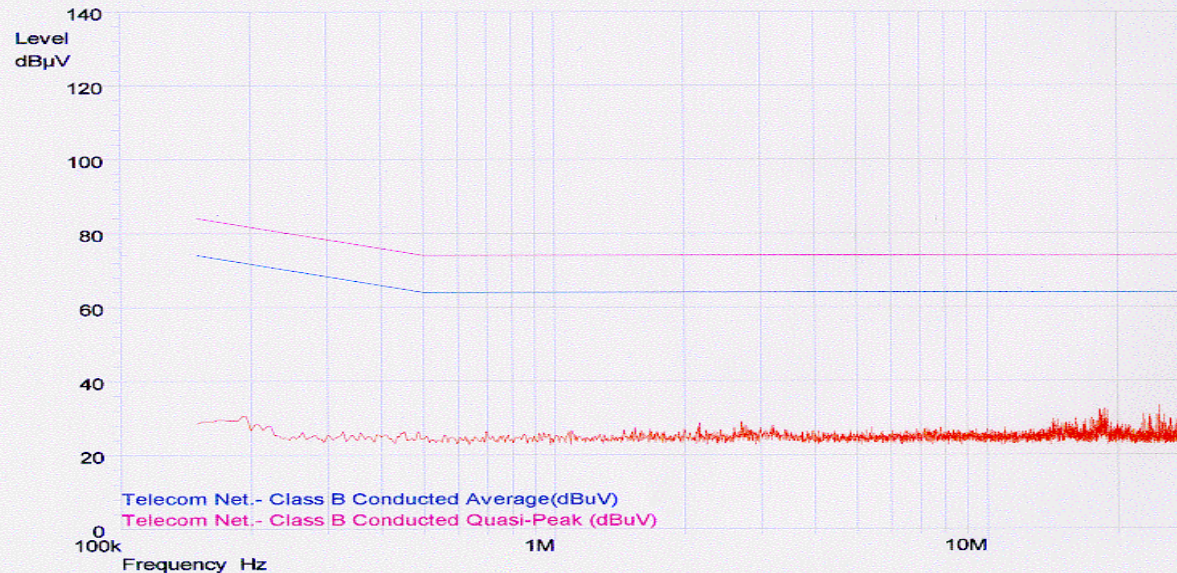
T5

NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998) Nortel Unit (with batteries) - Bob Smith termination 10/31/00

Schaffner-Chase EMC Emission Measuring Software EPS9980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 16:46



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NOTE: Solid Circle(s) indicate Conducted Average results.

AVAYA COMMUNICATION



Couple Diode Prototype, battery powered, valid signature, no load

T6

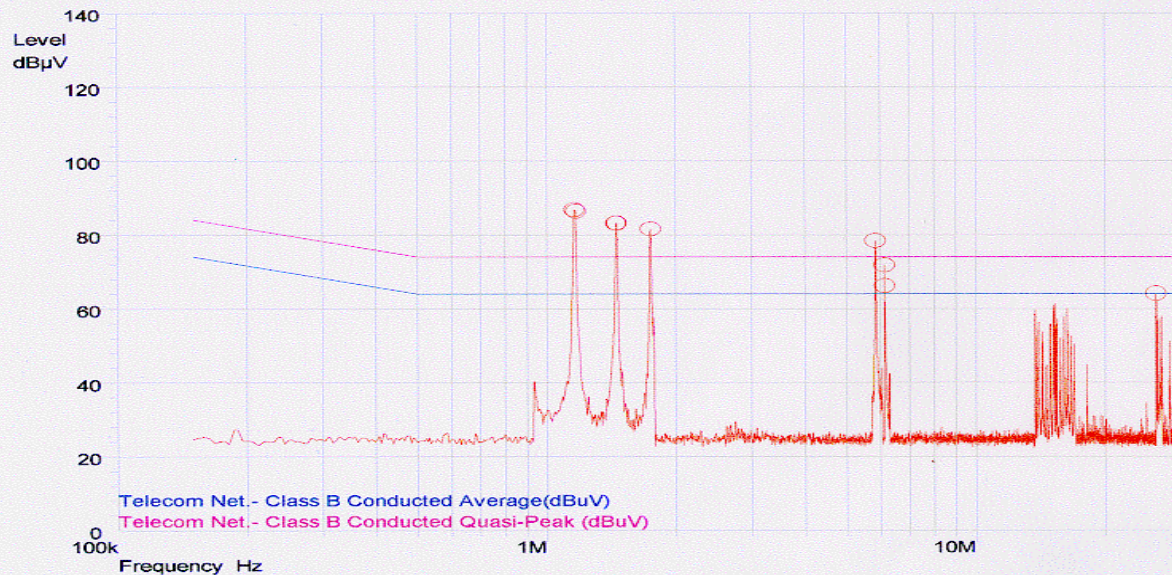
NESOC.200.222 - Conducted RF Emissions Telecommunication Ports (CE Mark - EN55022:1998)

Nortel Unit (with batteries) - Proper signature, but no load 10/31/00

Schaffner-Chase EMC Emission Measuring Software EPS9980 Version 1.32f, 8th June 1999

Results Name: Untitled
Project: None
Author: TPL - ECW
Not Saved

Printed on: 10/31/00 17:22



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NOTE: Solid Circle(s) indicate Conducted Average results.

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