CERN MIT L3 A&C/AMS

CARLO GAVAZZI SPACE SpA

AMS02-PDS

Request for [X] waiver [ ] deviation

Doc. N°: PDS-WV-CGS-004
Issue: 1 Date: 23/09/2009
Page 1 of 1 attach. 1
NCR ref: NCR-PDS-CGS-C-142

TITLE OF WAIVER / DEVIATION:
PDS radiated E-field emissions out of specified limits

OTHER SYSTEMS / CI's AFFECTED	BASELINE AFFECTED
[ ] YES [X] NO	Radiated E-field emissions limits required

SPECIFICATION / DRAWINGS AFFECTED RELATED TO THIS WAIVER/DEVIATION

NUMBER	ISSUE/REV.	DATE	TITLE	PARAGRAPHS / REQUIREMENTS
AMS-RQ-CGS-002	1	April 2007	POWER DISTRIBUTION SYSTEM (PDS) SPECIFICATIONS	3.2.3.1.2.1

EFFECT ON COST/PRICE	EFFECT ON DELIVERY SCHEDULE	QUANTITY	EFFECT ON LOGISTIC SUPPORT INTERFACE PERFORMANCE
NONE	NONE	/	/

DESCRIPTION OF REQUEST:
To accept that the PDS radiated emissions have been found out of specified limits in the low range of frequency spectrum (from about 70kHz up to about 25MHz) for both side A and side B of unit, see Annex 1.

NEED / REASON FOR REQUEST:
The out-of-spec. value is most probably originated by the use of not shielded cables; shielding performed by wrapping cable bundles with aluminium foil can not be considered as an equivalent solution. Additionally, it is underlined that overall test representativeness is jeopardised by unavailability of flight harness.

PROPOSAL / RECOVERY ACTION:
To use the unit as it is.

EFFECTIVITY

C.I. NUMBER	C.I. NOMENCLATURE	MODEL
PDS 18	AMS02-PDS p/n:10-AMS02PDS-000:00 s/n:FM01	PFM

NOTES AND LIMITATION:
NONE

NEEDED DATE FOR WAIVER / DEVIATION APPROVAL:
ASAP

	AUTHORITY DISPOSITION	CONFIGURATION CONTROL	ENGINEERING	PRODUCT ASSURANCE	PROGRAM MANAGER
CONTRACTOR ACCEPTED / REJECTED	Signature / Date	C. CASTELLANI 23/9/09	R. GRANDI 23/9/09	E. FRANCINI 23/09/09	M. CARUSO 23/09/09
PRIME CONTRACTOR ACCEPTED / REJECTED	Signature / Date	Signature / Date	Signature / Date	Signature / Date	Signature / Date
CUSTOMER ACCEPTED / REJECTED		ENGINEERING: Michael Caroll / AMS 30 Sep 09	PRODUCT ASSURANCE: 28/9/09	PROGRAM MANAGER: 28/09/09	

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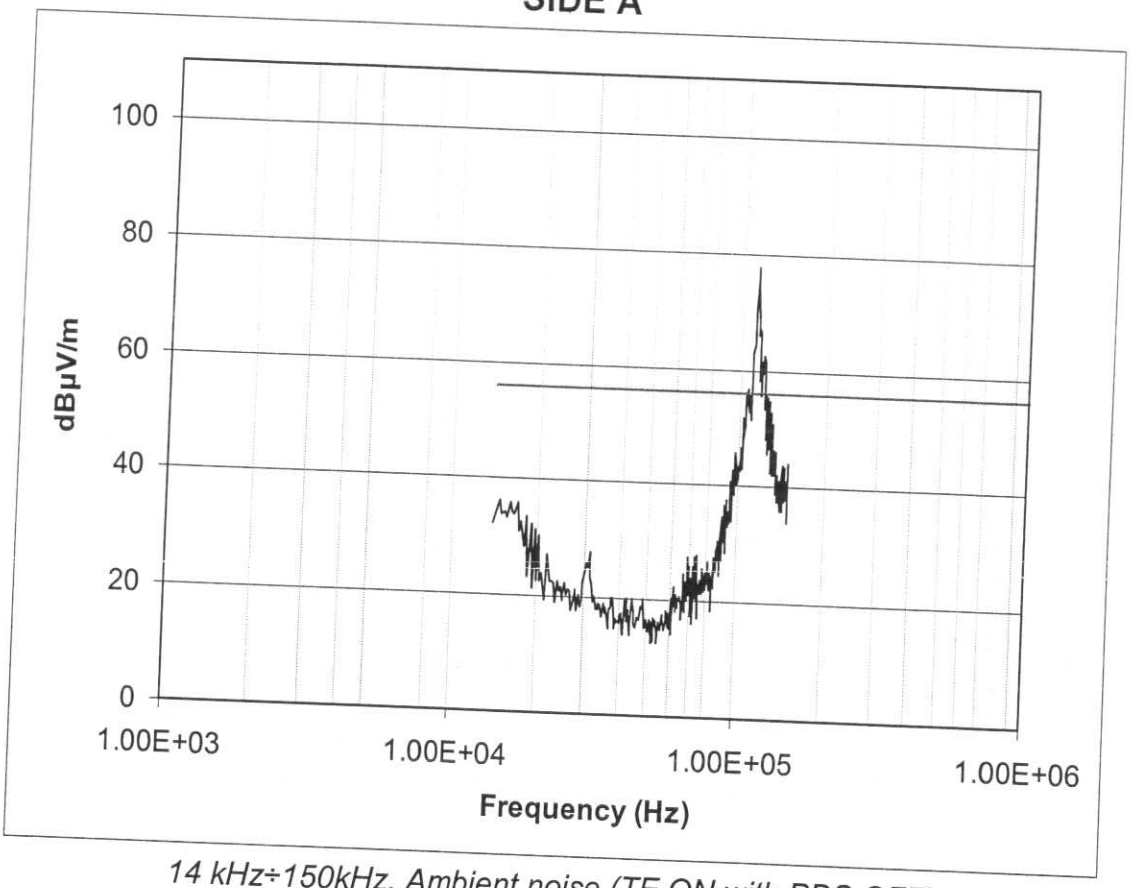
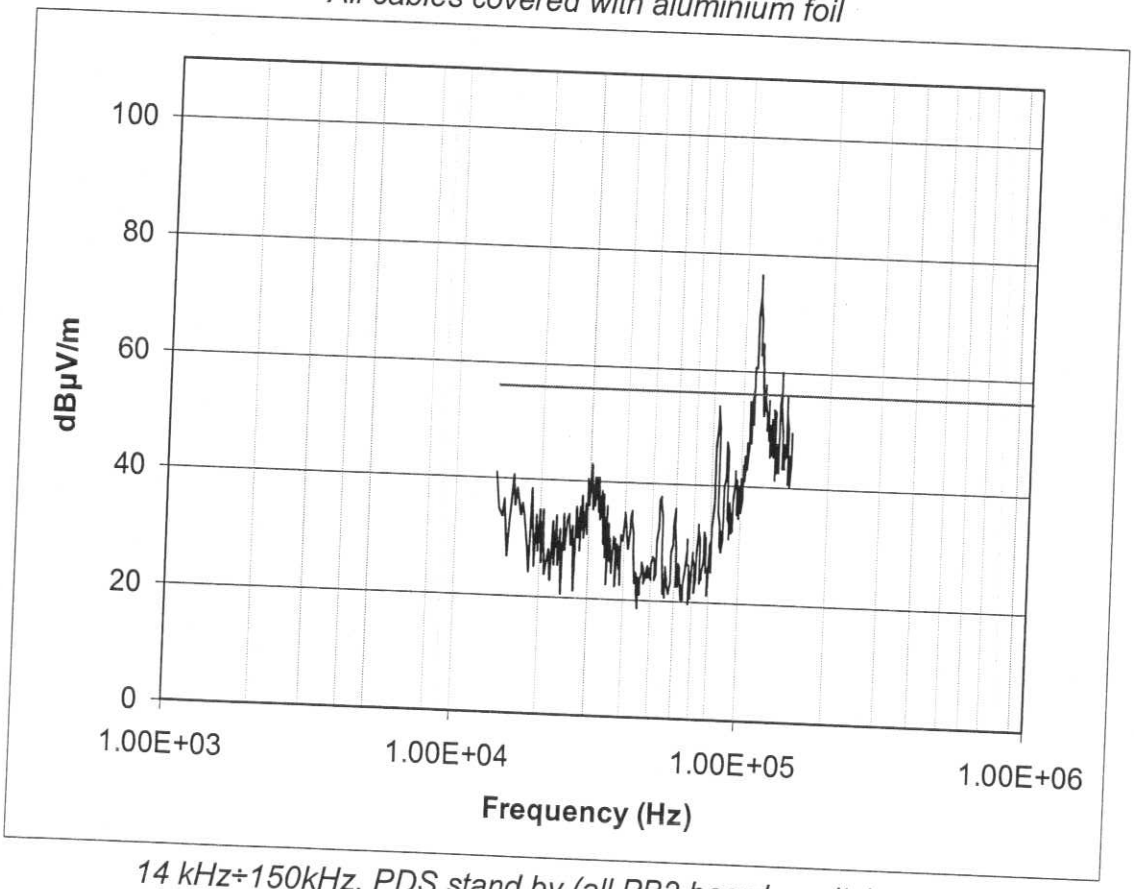
ANNEX 1 TO PDS-WV-CGS-004
8 PAGES

SIDE A



14 kHz÷150kHz, Ambient noise (TE ON with PDS OFF)
All cables covered with aluminium foil



14 kHz÷150kHz, PDS stand by (all PB2 boards switched off)
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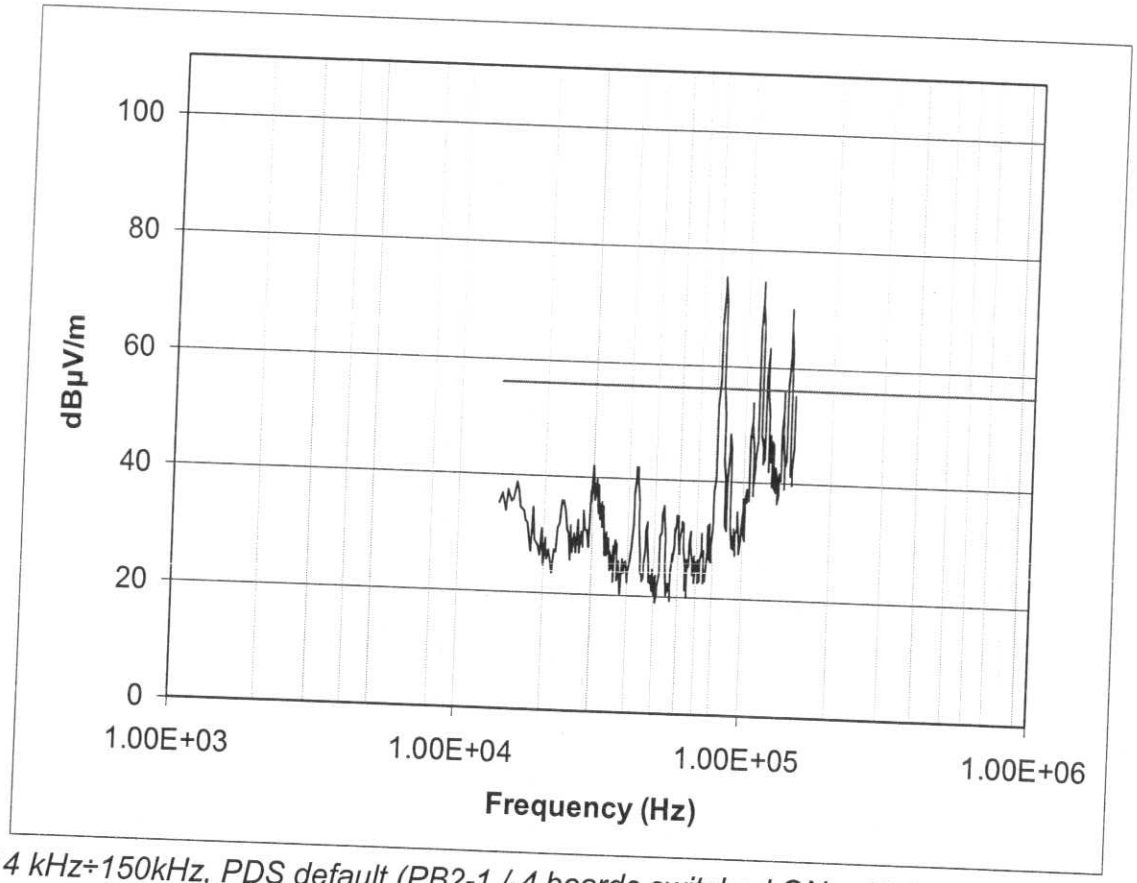

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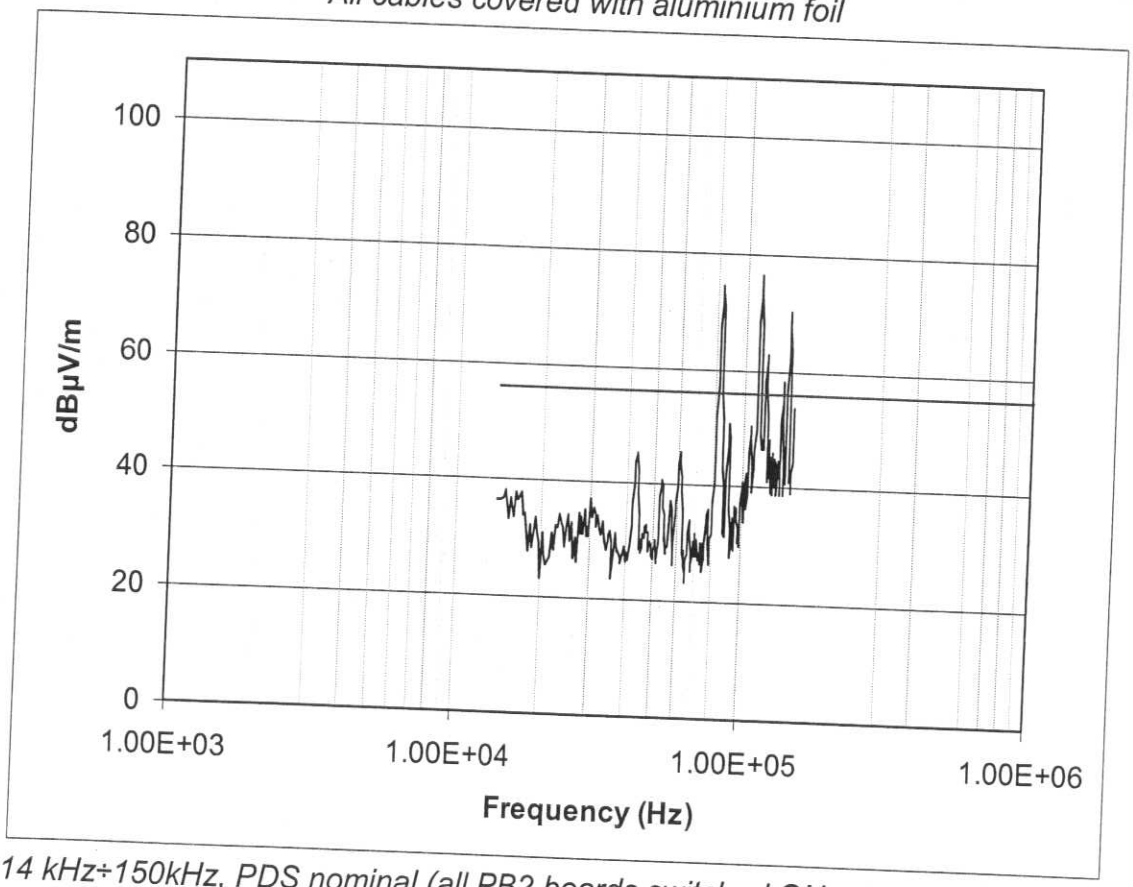

14 kHz÷150kHz, PDS nominal (all PB2 boards switched ON, with nominal loads)
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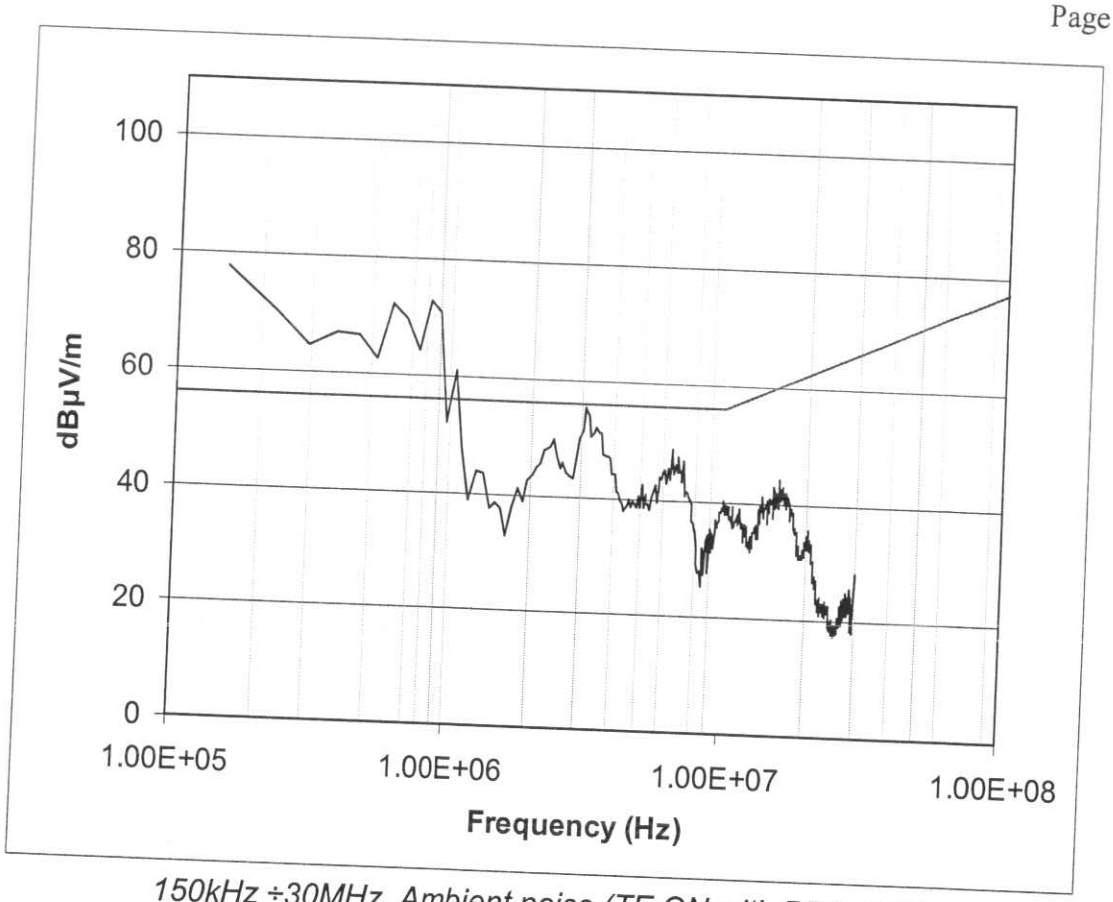

150kHz ÷30MHz, Ambient noise (TE ON with PDS OFF)
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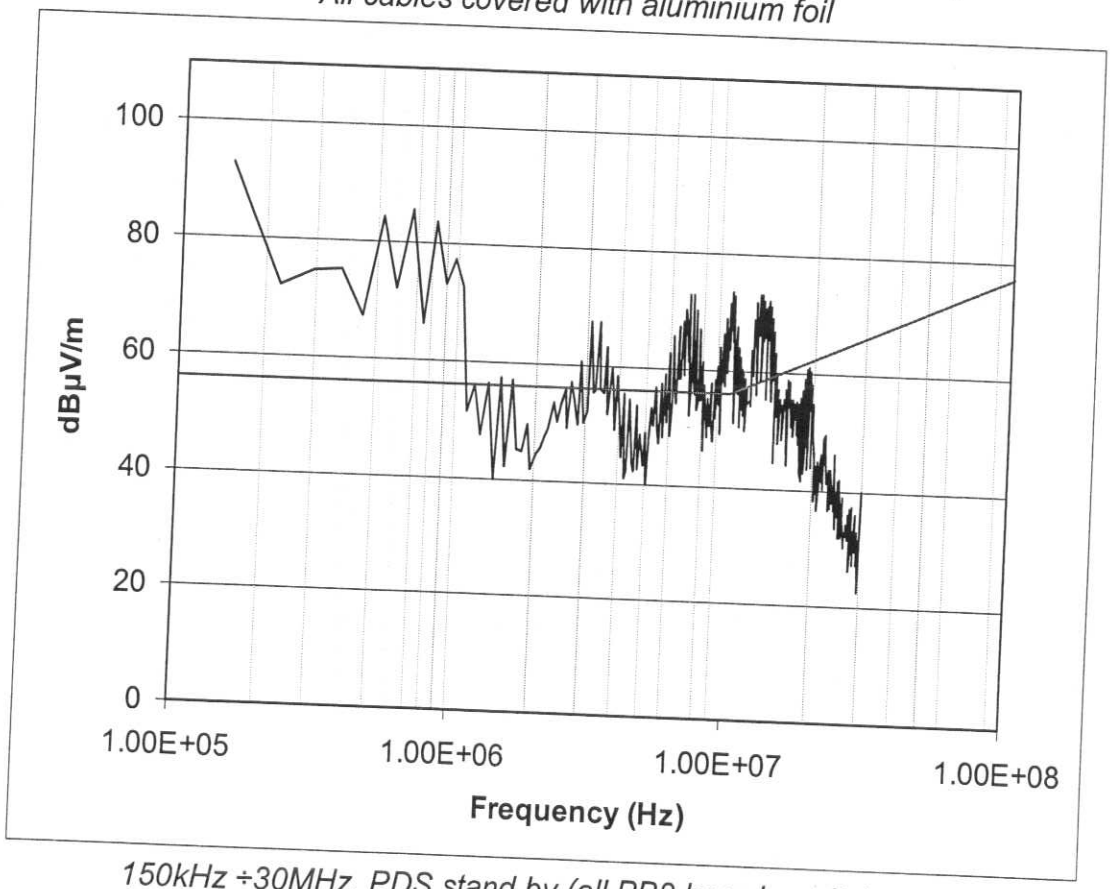

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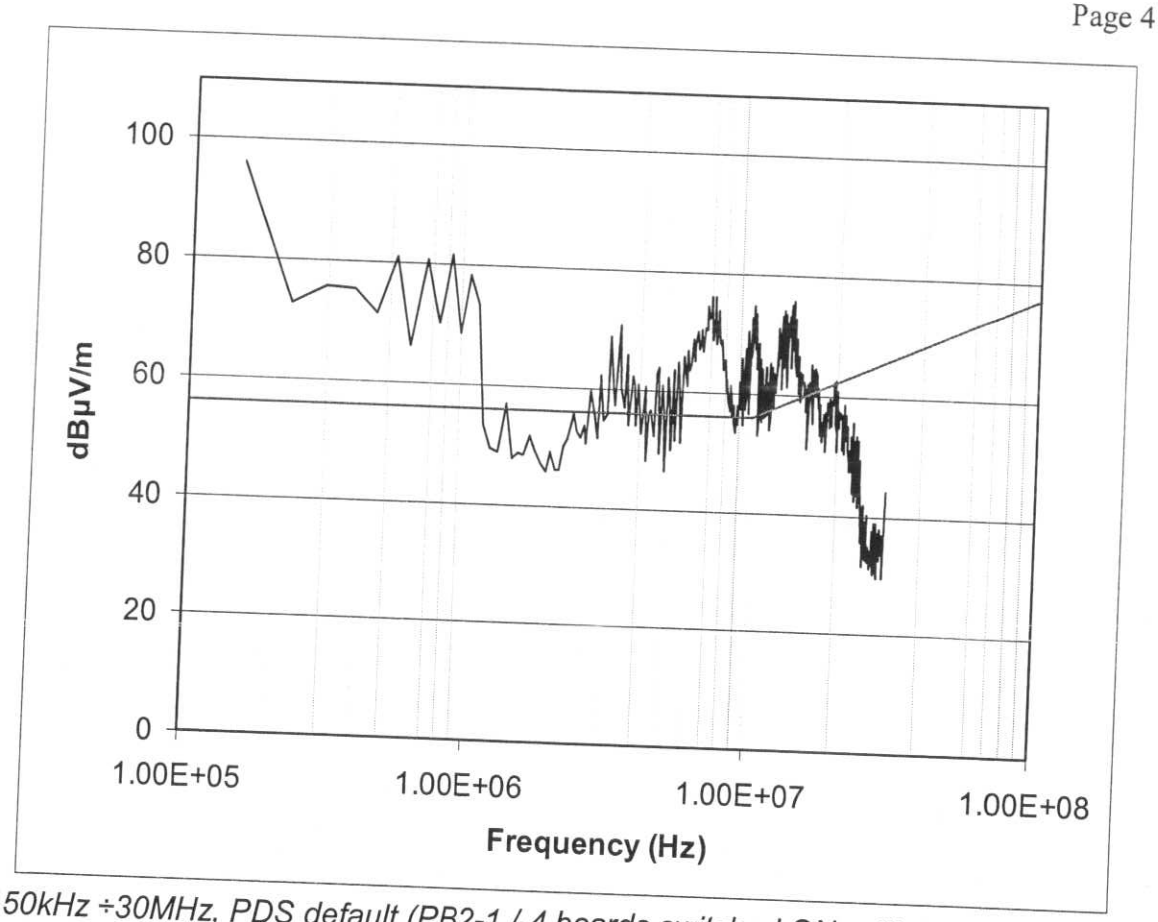

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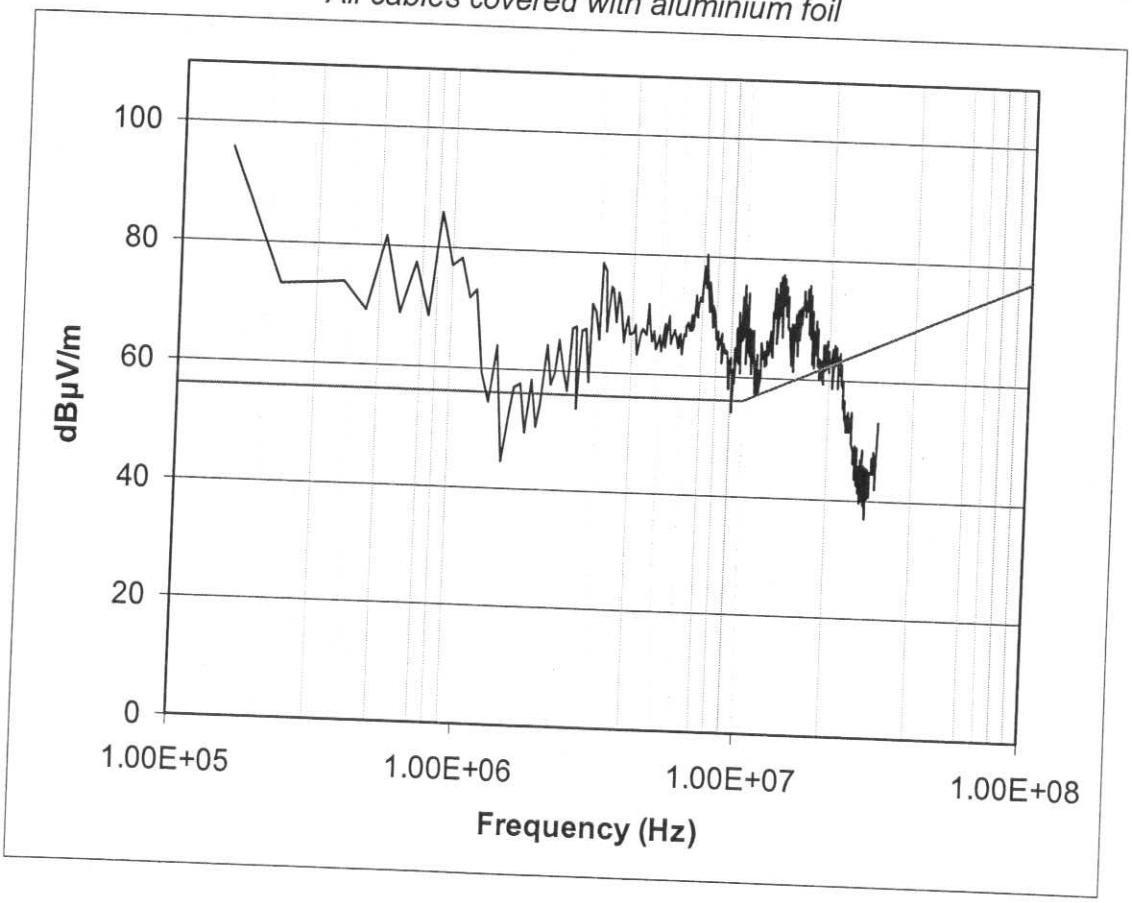

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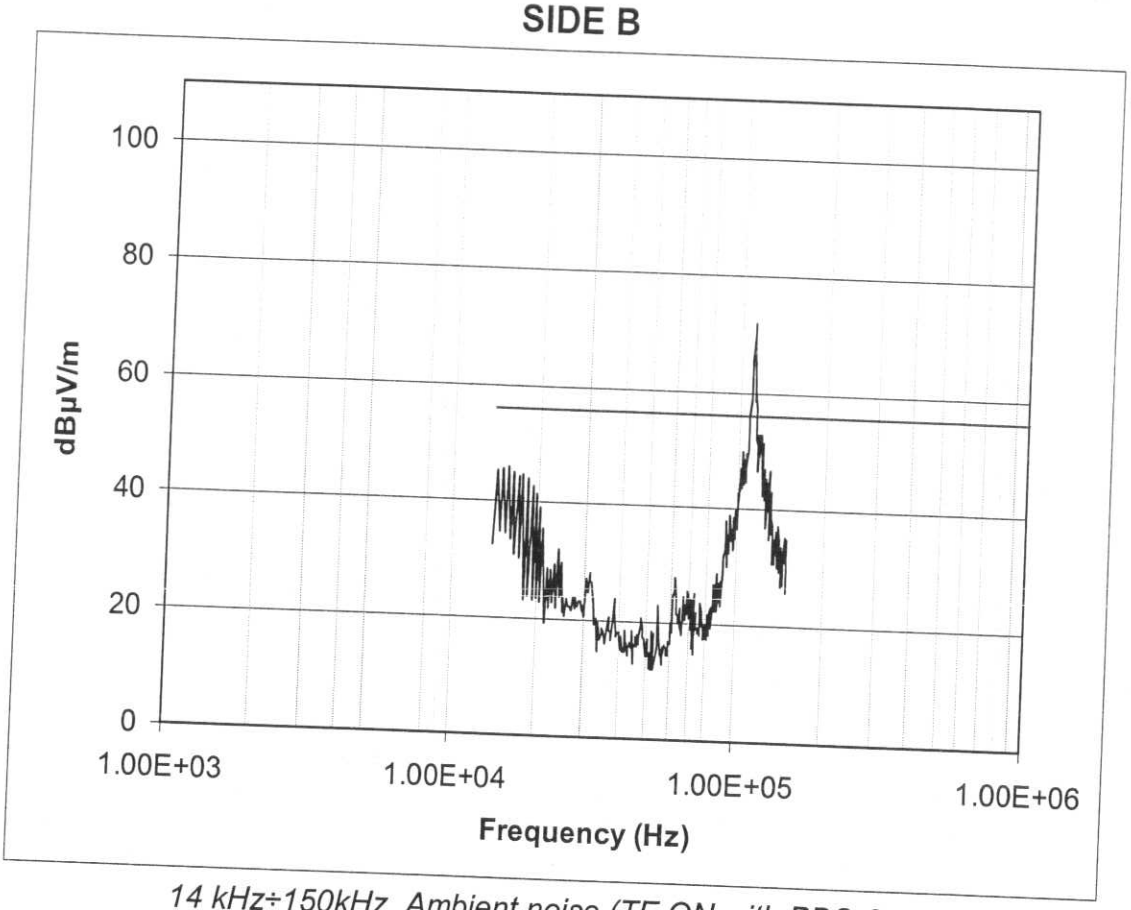
SIDE B



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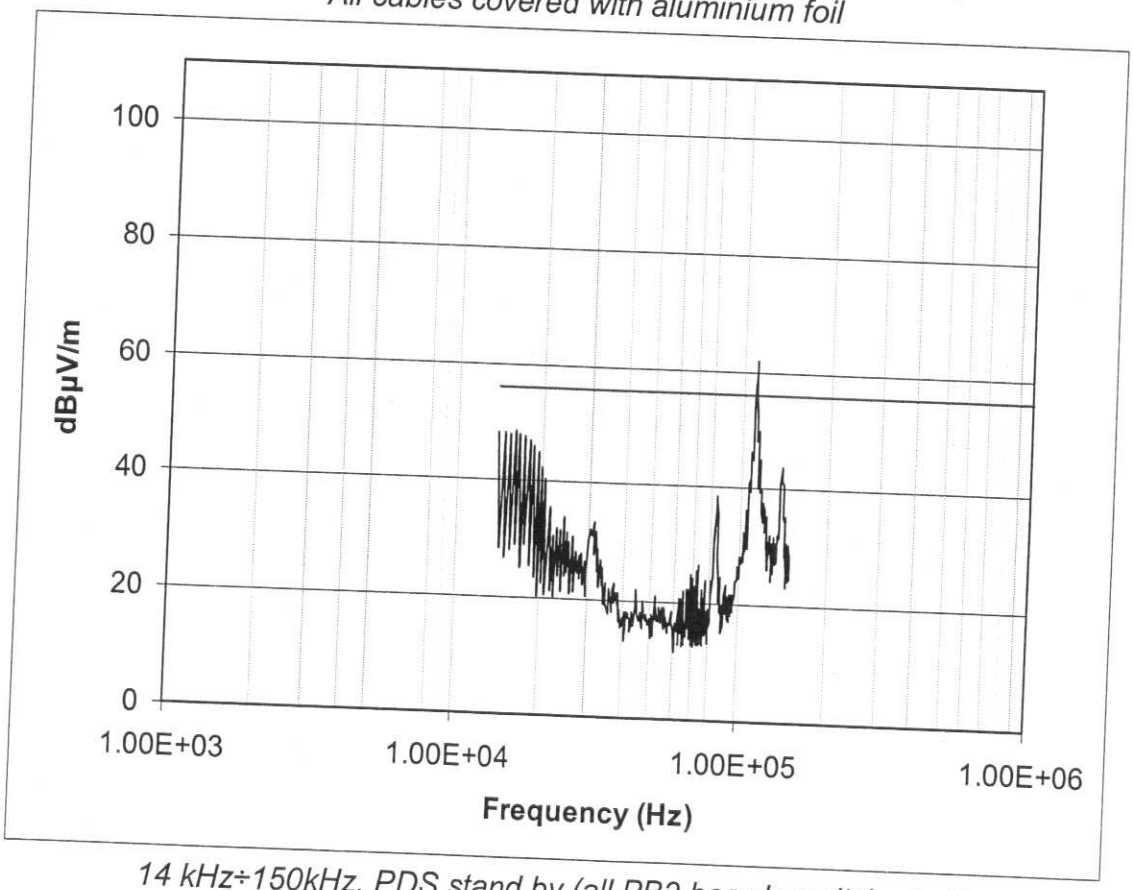

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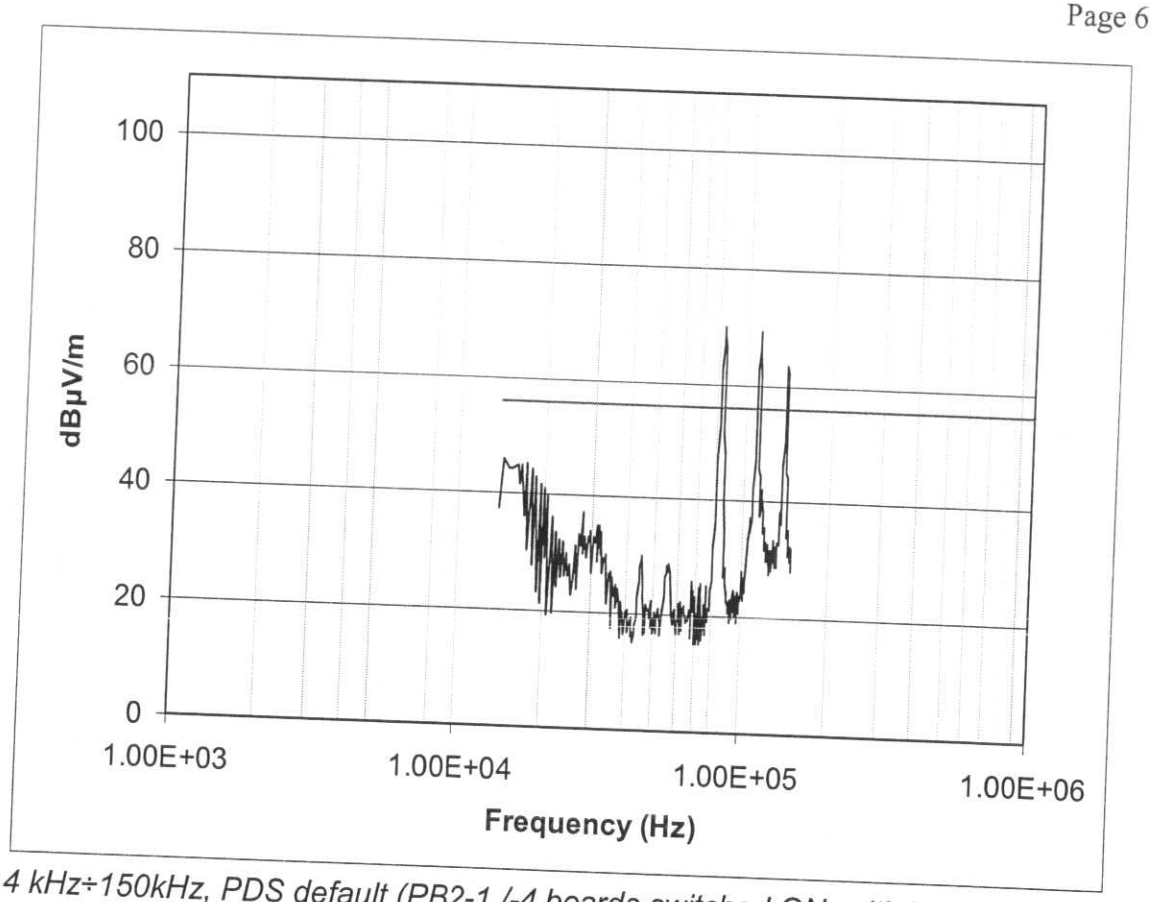

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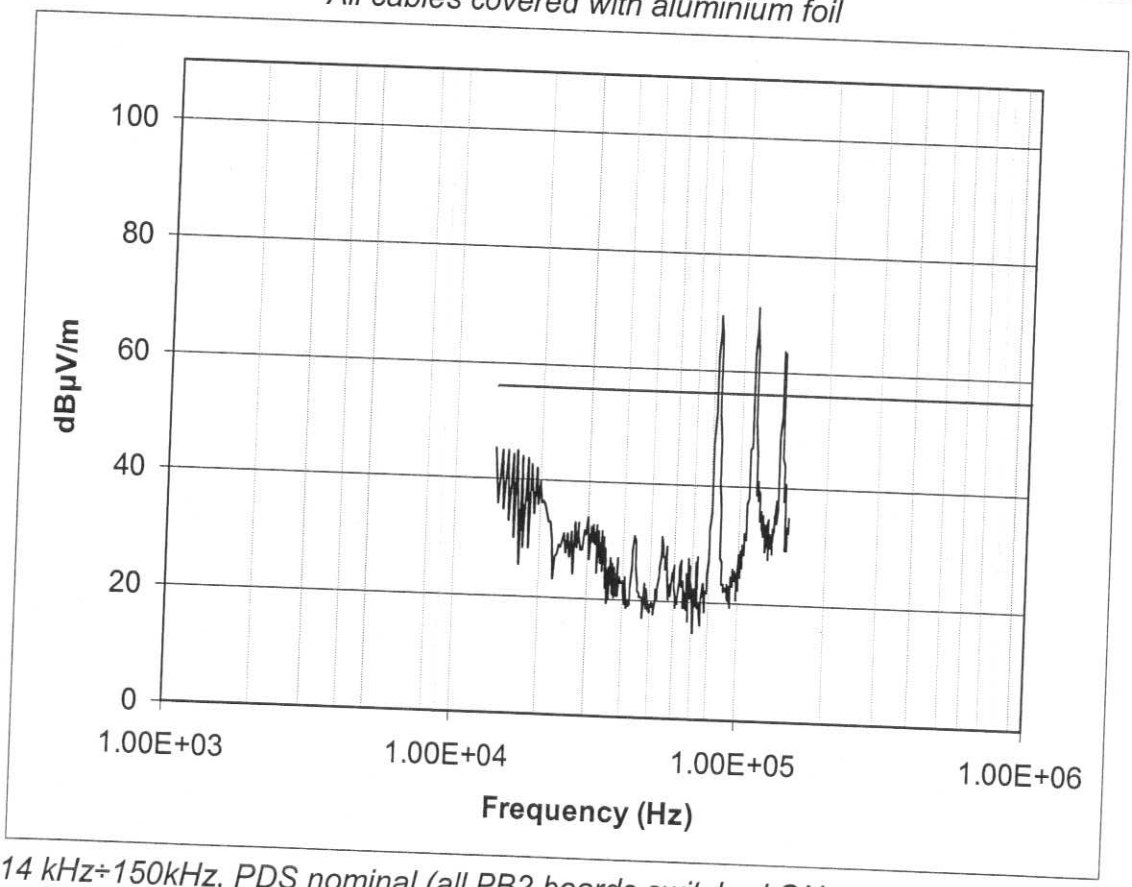

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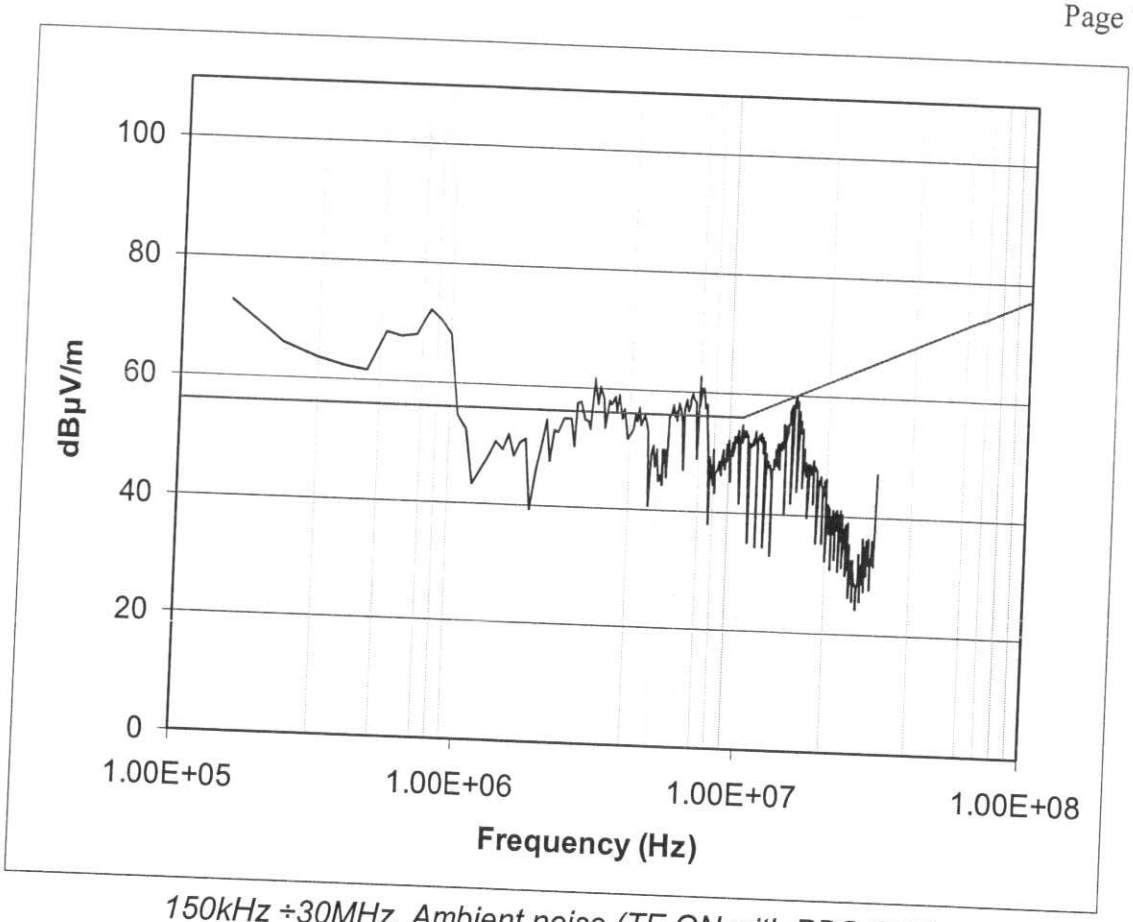

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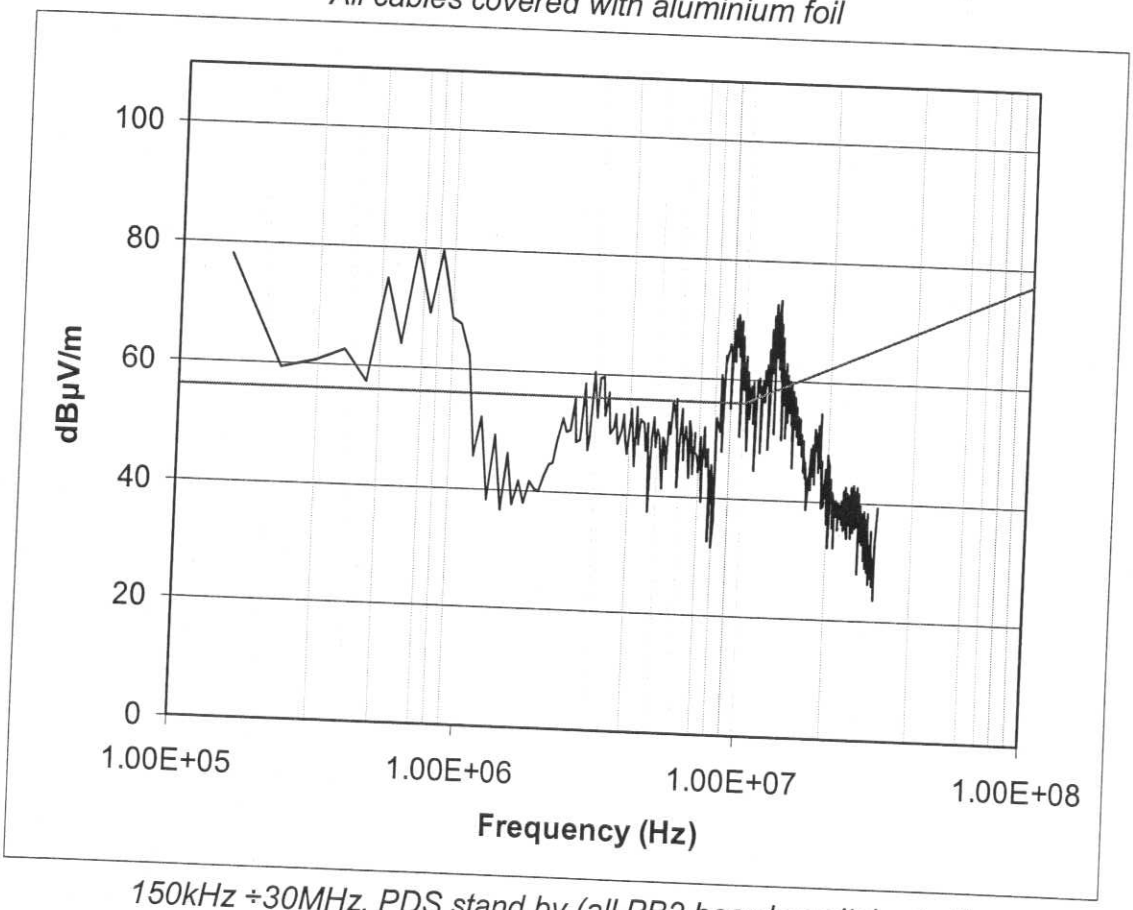

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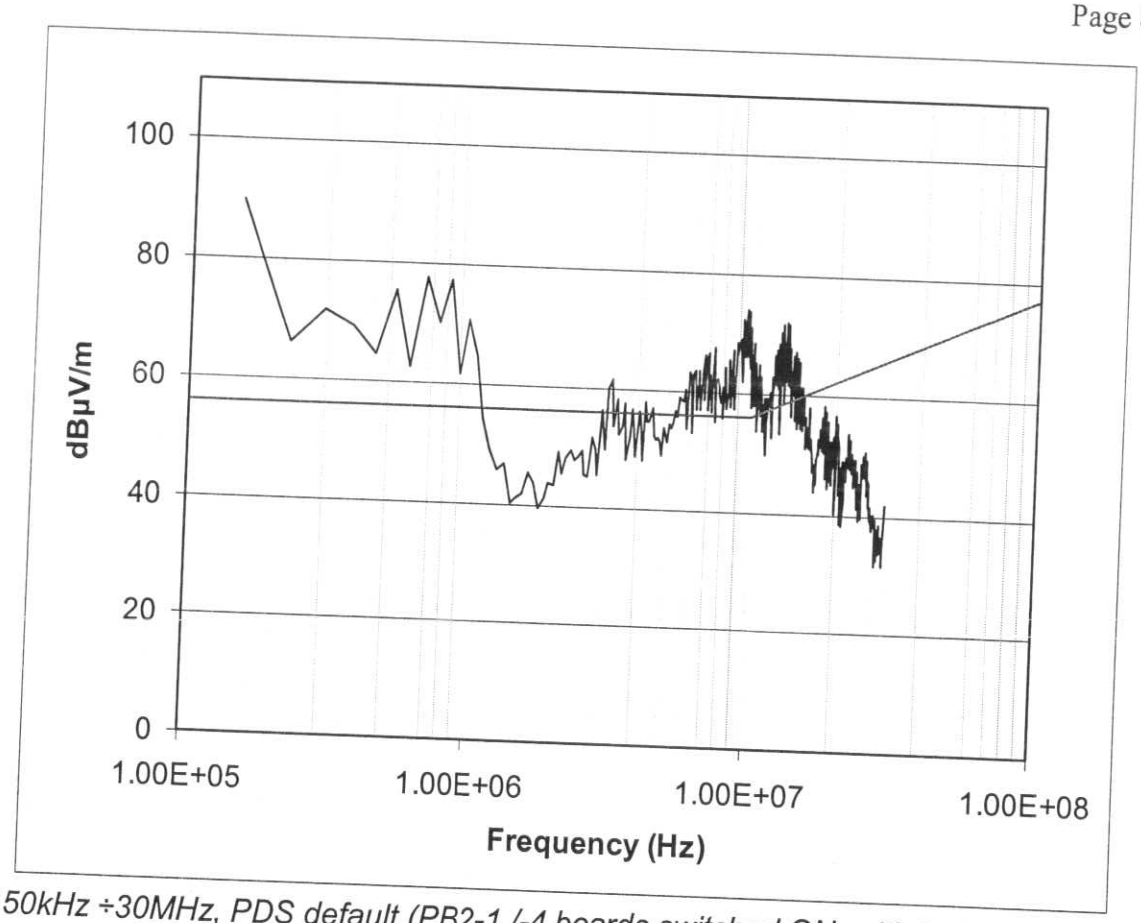

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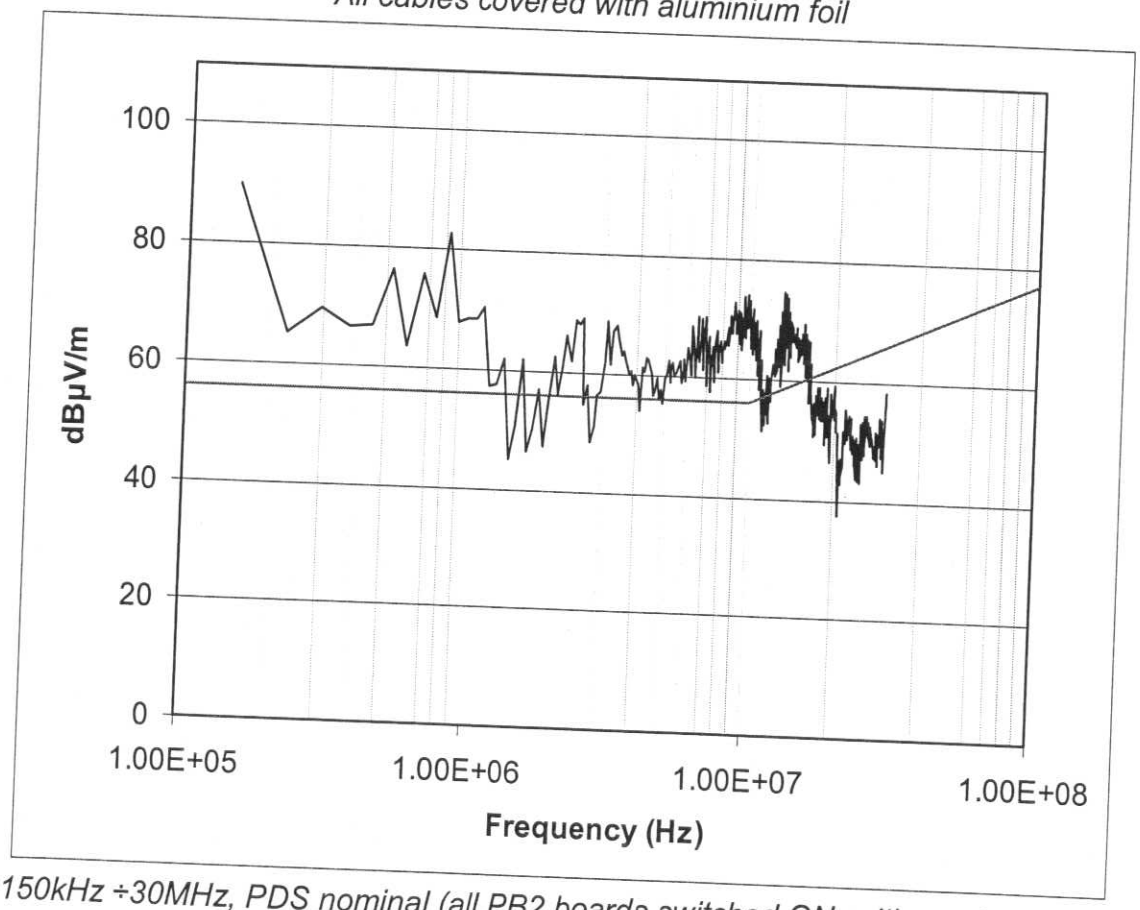

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