

EXHIBIT Q – Power Spectral Density Data

FCC ID# PEL640-0001

NORTHWEST

EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	700-0002	Work Order:	NEXC0006
Serial Number:	19F	Date:	01/11/01
Customer:	NextComm	Temperature:	23 degrees C
Attendees:	N/A	Tested by:	Greg Kiemel
Customer Ref. No.:	N/A	Power:	N/A
		Humidity:	38% RH
		Job Site:	SU02

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
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SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = $10 \cdot \log(1\text{Hz}/3\text{kHz})$

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS

AMPLITUDE

Pass

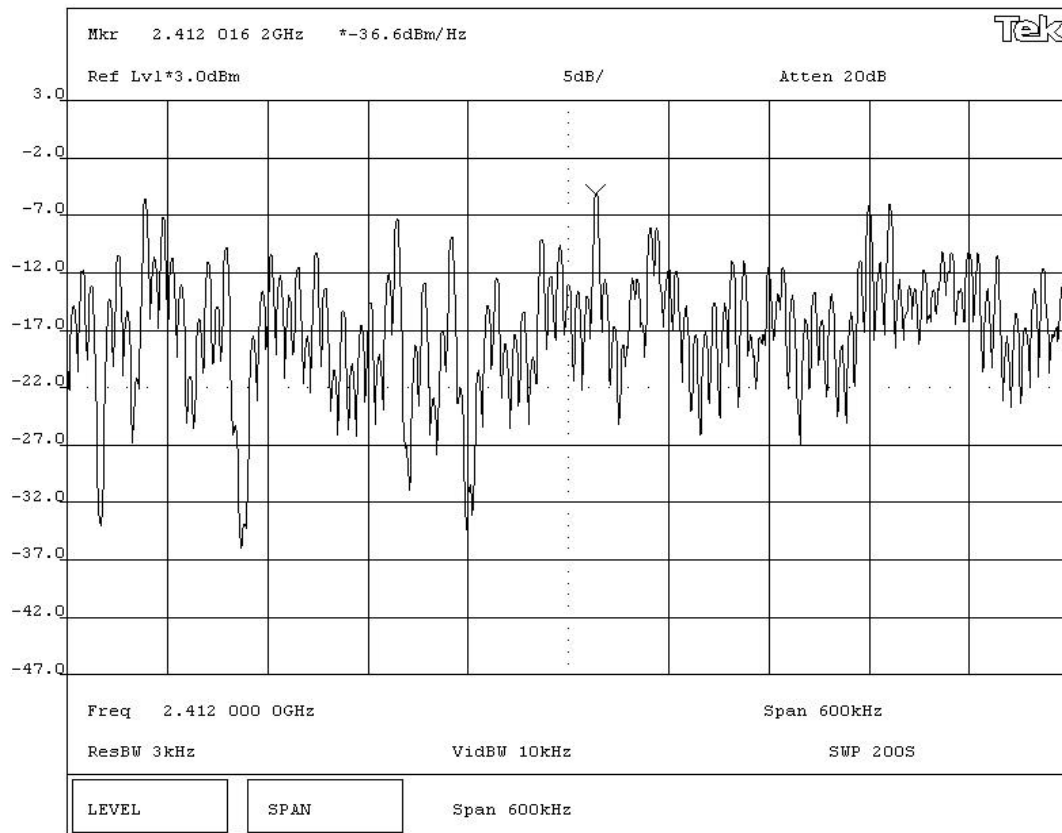
Power Spectral Density = -1.9 dBm / 3kHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Power Spectral Density - Low Channel



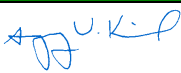
KNOB 2

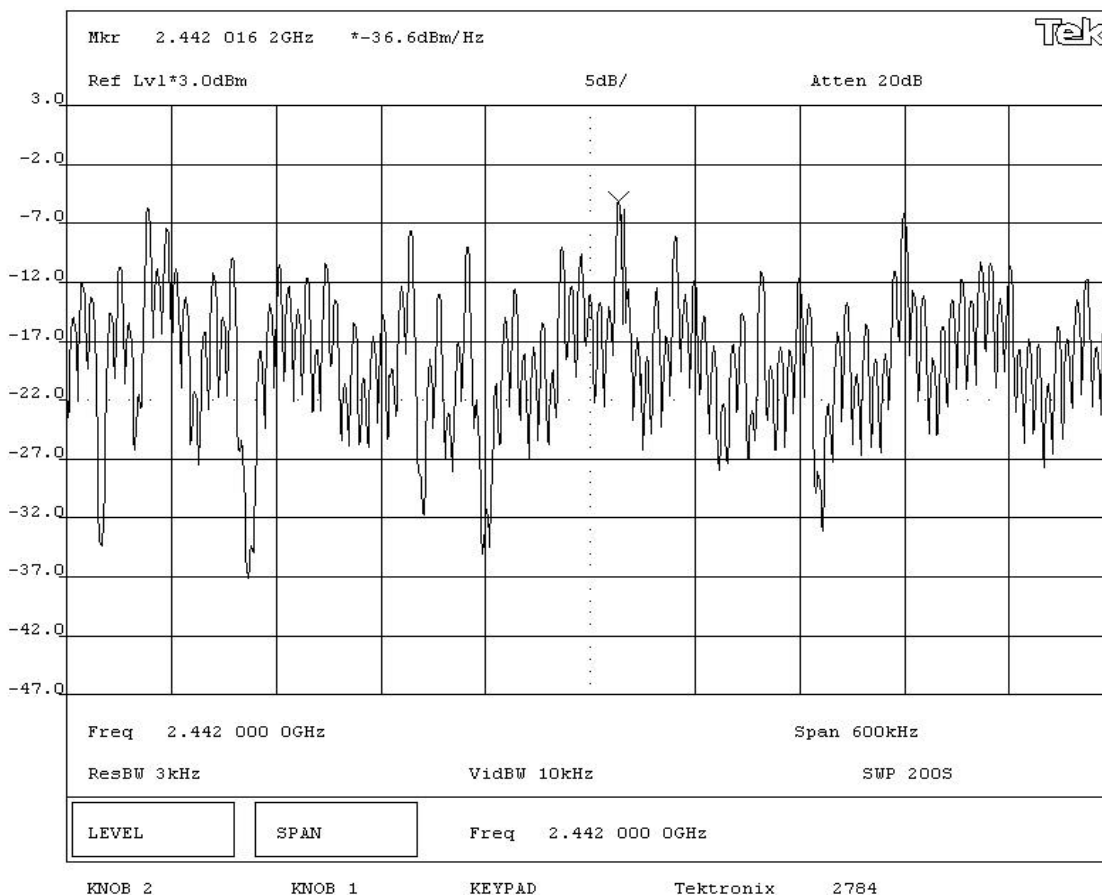
KNOB 1

KEYPAD

Tektronix

2784

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Attendees:	N/A	Tested by:	Greg Kiemel	Humidity:
Customer Ref. No.:	N/A	Power:	N/A	Job Site:
TEST SPECIFICATIONS				
Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:
				FCC 97-114, ANSI C63.4
			Year:	1992
SAMPLE CALCULATIONS				
Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation				
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.				
Bandwidth Correction Factor = $10 \cdot \log(1\text{Hz}/3\text{kHz})$				
COMMENTS				
EUT OPERATING MODES				
Modulated by PRBS at maximum data rate				
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band				
RESULTS		AMPLITUDE		
Pass		Power Spectral Density = -1.9 dBm / 3kHz		
SIGNATURE				
Tested By: _____ 				
DESCRIPTION OF TEST				
Power Spectral Density - Mid Channel				



NORTHWEST

EMC**EMISSIONS DATA SHEET**Rev BETA
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Attendees:	N/A	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	N/A
		Job Site:	SU02

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(d)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
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SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = $10 \cdot \log(1\text{Hz}/3\text{kHz})$ **COMMENTS****EUT OPERATING MODES**

Modulated by PRBS at maximum data rate

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS**AMPLITUDE**

Pass

Power Spectral Density = -1.1 dBm / 3kHz

SIGNATURETested By: **DESCRIPTION OF TEST****Power Spectral Density - High Channel**