TEST NUMBER - 142-03

TEST REPORT TO

INDUSTRY CANADA RSS 210 SECTION 8.6.2
FEDERAL COMMUNICATIONS COMMISSION CFR47 PART15.235

Low Power License-Exempt Radio communication Devices
Intentional Radiators

for

Dorel Juvenile Group
45 Dan Road
Canton, MA 02021
800-909-7133

of

Clip N Go 49MHz Baby Monitor

Model 08035

FCC ID: MNJ08035T

on

4/1/03

Tested by

_____
Clifton P. Brick

Reviewed by

_____
Larry K. Stillings

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TEST DESCRIPTION

1. TEST OBJECTIVE

To test the Clip N Go 49MHz Baby Monitor 08035 to RSS 210 / Part 15 Subpart C Rules and write a report.

2. E.U.T. DESCRIPTION

GENERAL

The Clip N Go 49MHz Baby Monitor 08035 is a 49 MHz band 2 channel baby monitor.

SERIAL NUMBERS:

Production Prototype

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TEST RESULTS AND CONCLUSIONS

PRODUCT TESTED - Clip N Go 49MHz Baby Monitor

MODEL NUMBER - 08035

RADIATED TEST RESULTS

The test results show that the emissions radiated from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

OCCUPIED BANDWIDTH & OUTPUT POWER

The test results show that the occupied bandwidth and output power of this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C .

CONDUCTED TEST RESULTS

The test results show that the emissions conducted through the power line from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

ANALYSIS AND CONCLUSIONS

Based upon the radiated and conducted measurements we find that this equipment is within the limits of the IC Rules RSS 210 / FCC Rules Part 15 Subpart C. All results are based on a test of one sample, and represent other production units, only in as much as a sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

NOTES (Special conditions unique to this test)

None.

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TEST PROCEDURES

1. TEST EQUIPMENT

A. HP 8546A (9 kHz - 6.5 GHz) EMI Receiver w/ RF Filter Section, S/N 3704A00323 / 3650A00360. Calibration Date 12-28-2002, calibrated annually.

B. Com-Power Biconilog Antenna, Model AC220, S/N 25509. Calibration Date 3-11-2003, calibrated annually.

C. EMCO LISN, Model EM 3825/2, S/N 9109-1860. Calibration Date: 3-9-2003, calibrated annually.

2. FREQUENCY RANGE TO BE SCANNED.

A. Radiated Test from 30 MHz to 40 GHz (or the 10^{th} harmonic of the highest frequency whichever is lower).

B. Conducted Test from 450 kHz to 30 MHz.

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3. TEST PROCEDURES.

Radiated test procedure:

The EUT, associated cables and peripheral devices are placed on the supporting table and any support equipment is placed off the site. The EUT is turned on and any necessary operating or test software installed and allowed to warm up. The EUT is pre-scanned in our ferrite tile lined chamber where it is rotated 360 degrees and examined in both horizontal and vertical polarization, all emission frequencies are identified and recorded. The EUT is then moved to the OATS and the frequency band from 30 MHz to 40 GHz is scanned, all frequencies identified in the chamber are investigated, as well as harmonic frequencies of the EUT. When an emission is found the emission is maximized by varying the bundle position of the connecting cables, the antenna height, the antenna polarization (vertical and horizontal) and the table orientation (360 degrees). The maximum reading is recorded and the next signal is searched for.

Conducted test procedure:

The power line of the EUT is connected to the LISN (Line Impedance Stabilization Network). A measurement of the emissions are made from the power line for both phase and neutral on the analyzer in the frequency range from 450 kHz to 30 MHz. The maximum readings are recorded for each phase.

All measurements are made according to the procedures defined in: "ANSI C63.4-1992 Standard Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronics Equipment in the Range of 9 kHz to 40 GHz, American National Standard for (ISBN 1-55937-215-5).

RSS 210 TEST LIMITS

1. RSS 210 Section 6.2.2, Table 3 Radiation Limits (Quasi-Peak):
   FCC Part 15.209, 15.235, 15.249 Radiation Limits (Quasi-Peak):

Frequency MHz	Distance meters	Limit dBμV/m	Limit μV/m
1.705 - 30	30	29.5*	30*
30 - 88	3	40.0	100
49.82 - 49.90	3	80.0*	10,000*
88 - 216	3	43.5	150
216 - 960	3	46.0	200
902 - 928	3	94.0*	50,000*
960 - 1000	3	54.0	500
1000 - 40000	3	54.0*	500*

*NOTE: Average Limits

2 FCC Part 15.207 Conduction Limits (Harmonized)

Frequency MHz	Quasi-Peak Limit dBμV/m	Average Limit dBμV/m
0.150 - 0.500	66 to 56	56 to 46
0.500 - 5.0	56	46
5.0 - 30.0	60	50

TEST FACILITY DESCRIPTION

Compliance Worldwide is located on 357 Main Street in Sandown, New Hampshire. The conducted and radiated test sites, located at C.W. are used for Federal Communications Commission (FCC) testing and Industry Canada Testing. A site description is on file with the FCC in Columbia, MD USA. Site information is also on file with Industry Canada, anyone wishing to review this Test Facility Description is referred to file number **IC 3023**. This is currently on file at Industry Canada, 1241 Clyde Avenue, Ottawa, ON K2C 1Y3.

The radiated site is a 3/10 meter indoor site with an enclosure for the product and a basement for the personnel, support equipment and test equipment.

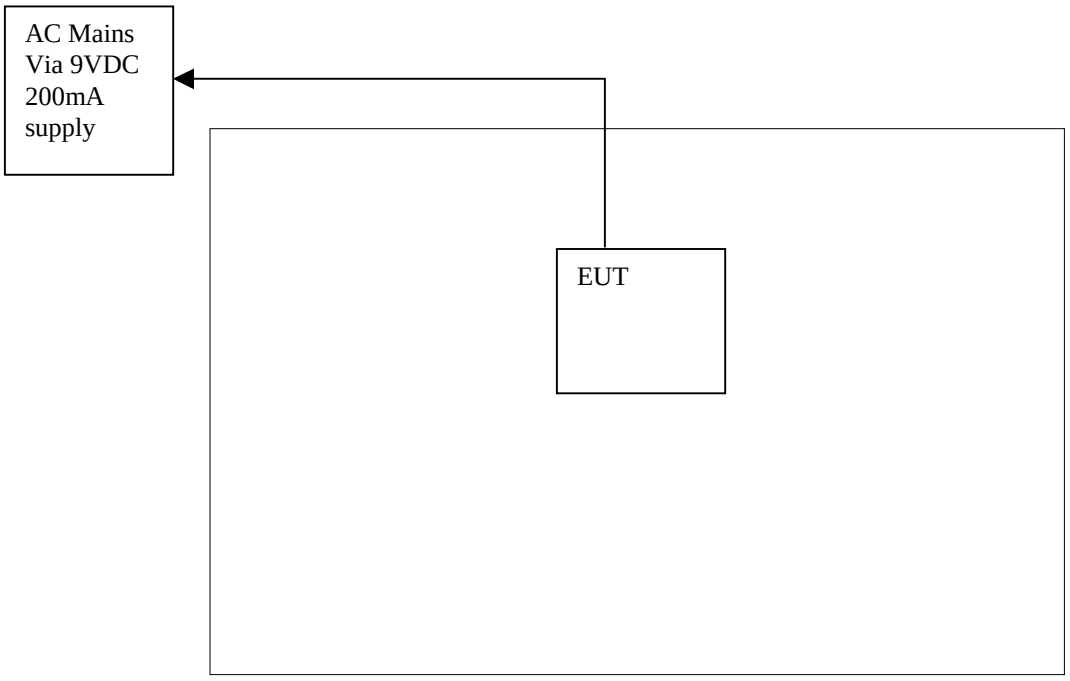
The conducted site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical metal wall required by EN 55022.

Both sites are designed to test products or systems 1.5 meter x 1.0 meter, floor standing or table top.

DATE ON FILE FCC: August 10, 2000

DATE ON FILE IC: August 11, 2000

TEST SET UP
AND
PERIPHERAL CONNECTION INFORMATION



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PLEASE NOTE - EUT (equipment under test) is Clip N Go 49MHz Baby Monitor.

The cables directly connected to this equipment are listed below.

Connection Descriptions

1. __Power Cable_____
(description)

___EUT_____
(from device)

___AC Mains Via Class 2 power supply block_____
(to device)

CABLE LENGTH __2m__ (S) SHIELDED or (U) UNSHIELDED _U__

2. __N/A_____
(description)

_____
(from device)

_____
(to device)

CABLE LENGTH _____ (S) SHIELDED or (U) UNSHIELDED ____

3. __N/A_____
(description)

_____
(from device)

_____
(to device)

CABLE LENGTH _____ (S) SHIELDED or (U) UNSHIELDED ____

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RADIATED TEST RESULTS

Frequency Range:	30 - 1000 MHz.
Measurement Distance:	3.0 Meters.
Bandwidth:	120 kHz, Per ANSI C63.4-1992.*
Detector Functions:	Peak, Quasi Peak, Average
Video Filter:	300 kHz
Table Height:	0.8 meters
Antenna Height Variation:	1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken.

*Measurement Bandwidth is 1 MHz above 1 GHz

PLEASE SEE NEXT PAGE FOR RADIATED TEST DATA

All Harmonics of the 16 MHz crystal, including harmonics of the 49MHz fundamental were examined, all signals within 26dB of the limit were recorded.

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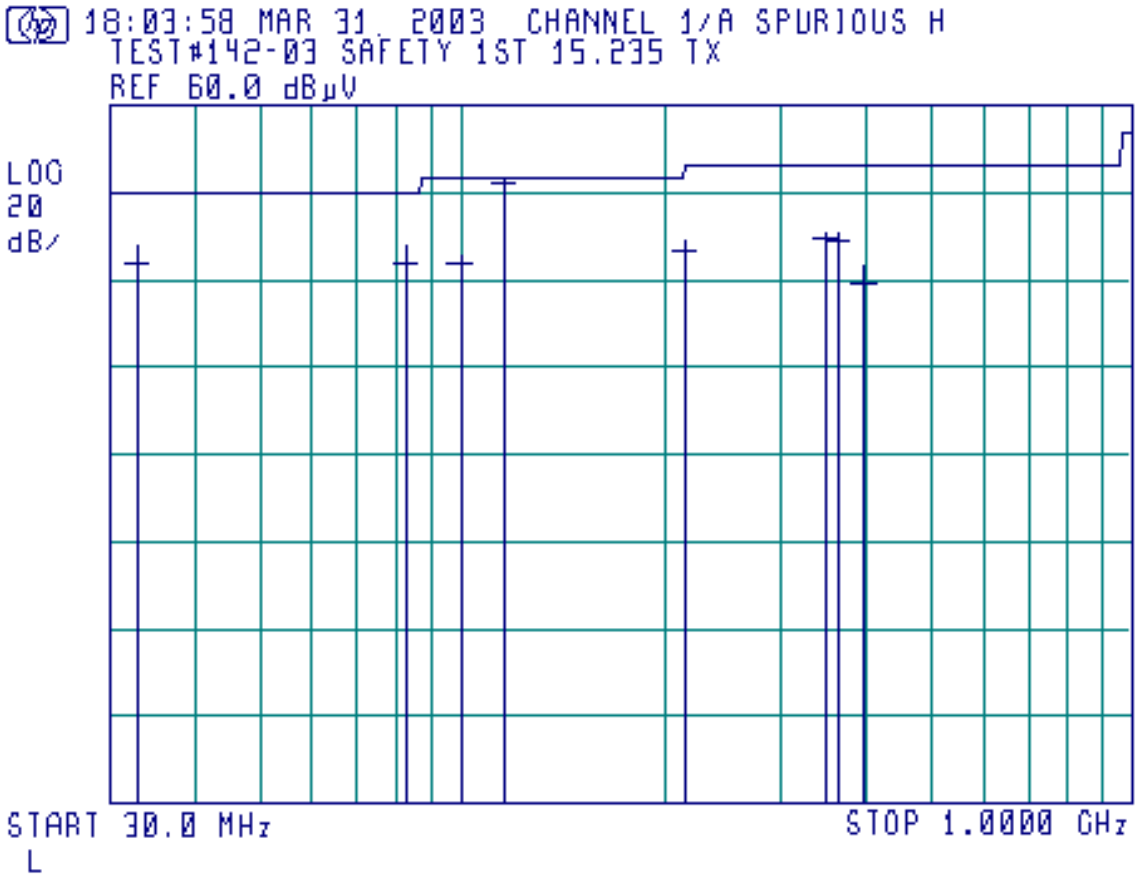
Radiated Horizontal channel A Data Log Plot



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Radiated Horizontal Channel A Tabular Data

Freq (MHz)	Azimuth (Degrees)	Antenna Height (Meters)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
33.241800	354	1.6	28.68	24.68	40.00	-15.32
83.093100	34	2.1	28.28	24.60	40.00	-15.40
99.700850	140	2.2	25.82	24.44	43.50	-19.06
116.340525	8	2.8	44.02	42.14	43.50	-1.36
216.030900	4	1.5	28.82	27.07	46.00	-18.93
348.954825	220	1.0	31.58	30.29	46.00	-15.71
365.586725	4	1.0	31.22	29.44	46.00	-16.56
398.794150	58	1.0	23.83	19.93	46.00	-26.07

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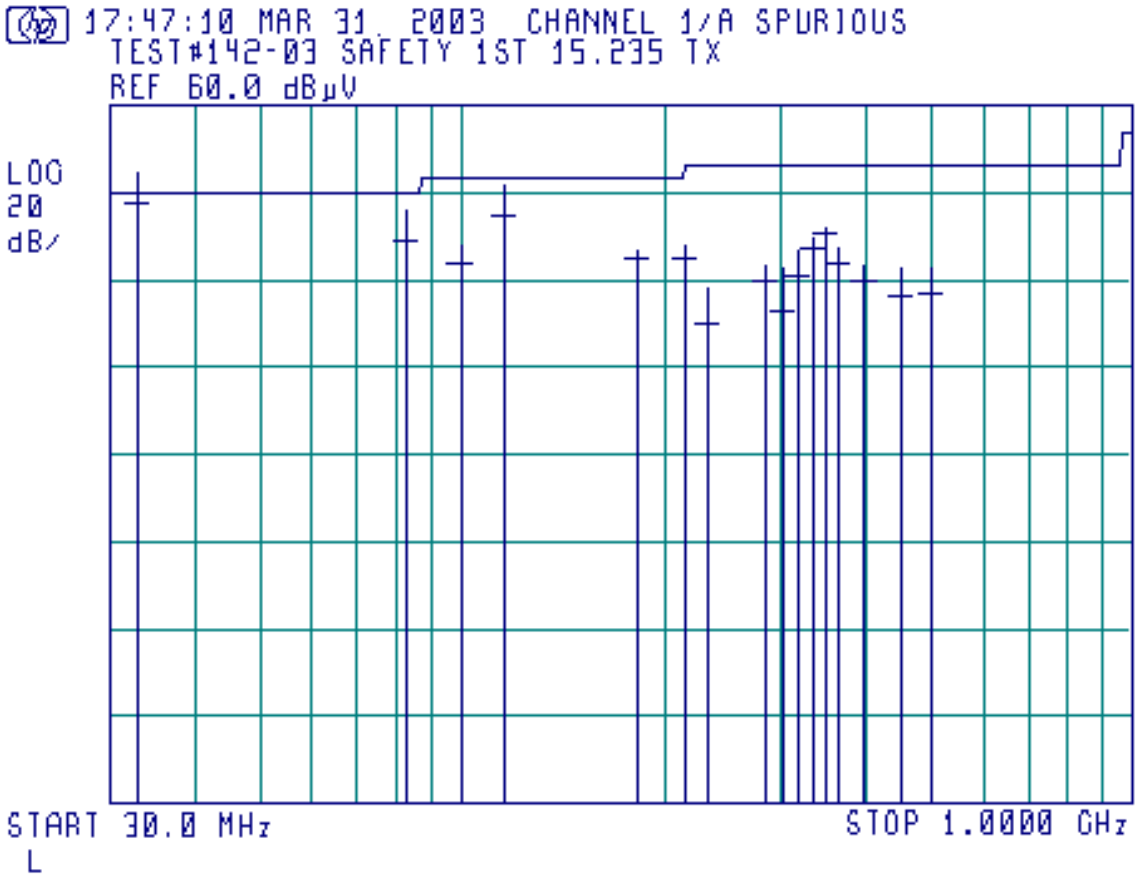
Radiated Vertical Channel A Data Log Plot



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Radiated Vertical Channel A Tabular Data

Freq (MHz)	Azimuth (Degrees)	Antenna Height (Meters)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
33.241800	258	1.0	44.96	38.14	40.00	-1.86
83.093100	200	1.0	36.18	29.27	40.00	-10.73
99.700850	134	1.0	28.77	24.22	43.50	-19.28
116.340525	354	1.0	42.00	34.70	43.50	-8.80
149.551275	130	1.0	26.03	22.78	43.50	-20.72
182.789000	240	1.0	26.82	25.30	43.50	-18.20
216.030900	240	1.0	28.51	25.15	46.00	-20.85
232.748025	90	1.0	18.06	10.61	46.00	-35.39
249.252125	254	1.0	22.85	19.00	46.00	-27.00
265.933725	240	1.0	24.26	20.37	46.00	-25.63
282.483775	70	1.0	23.77	20.65	46.00	-25.35
299.184600	214	1.0	22.94	13.55	46.00	-32.45
315.718125	318	1.7	26.65	21.32	46.00	-24.68
332.328725	4	2.0	29.79	27.96	46.00	-18.04
348.954825	54	1.9	32.33	31.00	46.00	-15.00
365.586725	244	1.7	27.44	24.82	46.00	-21.18
398.794150	164	1.4	24.03	20.46	46.00	-25.54
448.679575	330	1.6	22.55	16.90	46.00	-29.10
498.511550	190	1.4	23.06	17.44	46.00	-28.56

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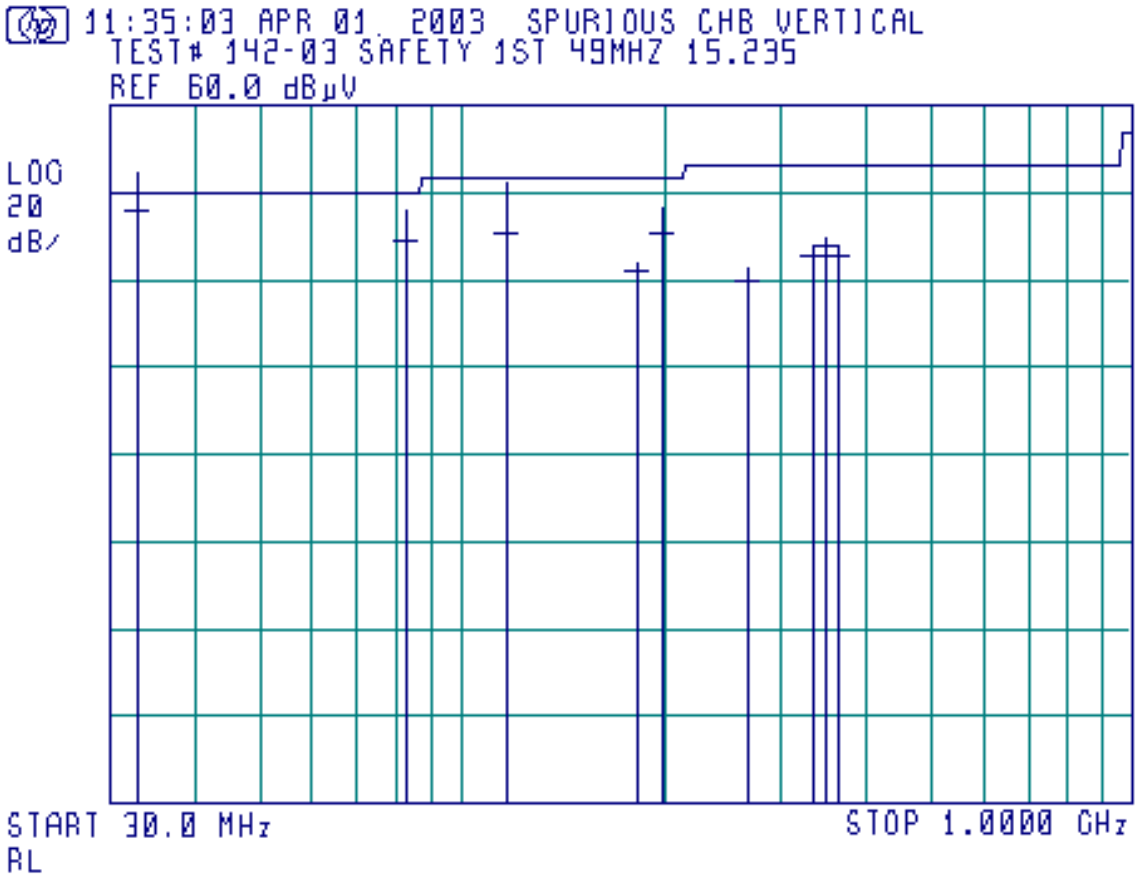
Radiated Vertical Channel B Log Plot



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Radiated Vertical Channel B Tabular Data

Freq (MHz)	Azimuth (Degrees)	Antenna Height (Meters)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
33.259000	200	1.0	44.81	36.58	40.00	-3.42
83.102775	158	1.0	35.86	28.84	40.00	-11.16
116.350750	4	1.0	42.15	31.85	43.50	-11.65
149.665550	304	1.0	23.78	21.58	43.50	-21.92
182.865825	30	1.0	24.10	21.98	43.50	-21.52
199.471175	94	1.0	37.17	31.07	43.50	-12.43
265.977300	4	1.0	22.93	20.28	46.00	-25.72
332.474825	364	2.2	28.00	26.21	46.00	-19.79
349.105550	104	2.2	29.93	28.06	46.00	-17.94
365.728250	120	1.7	28.07	25.89	46.00	-20.11

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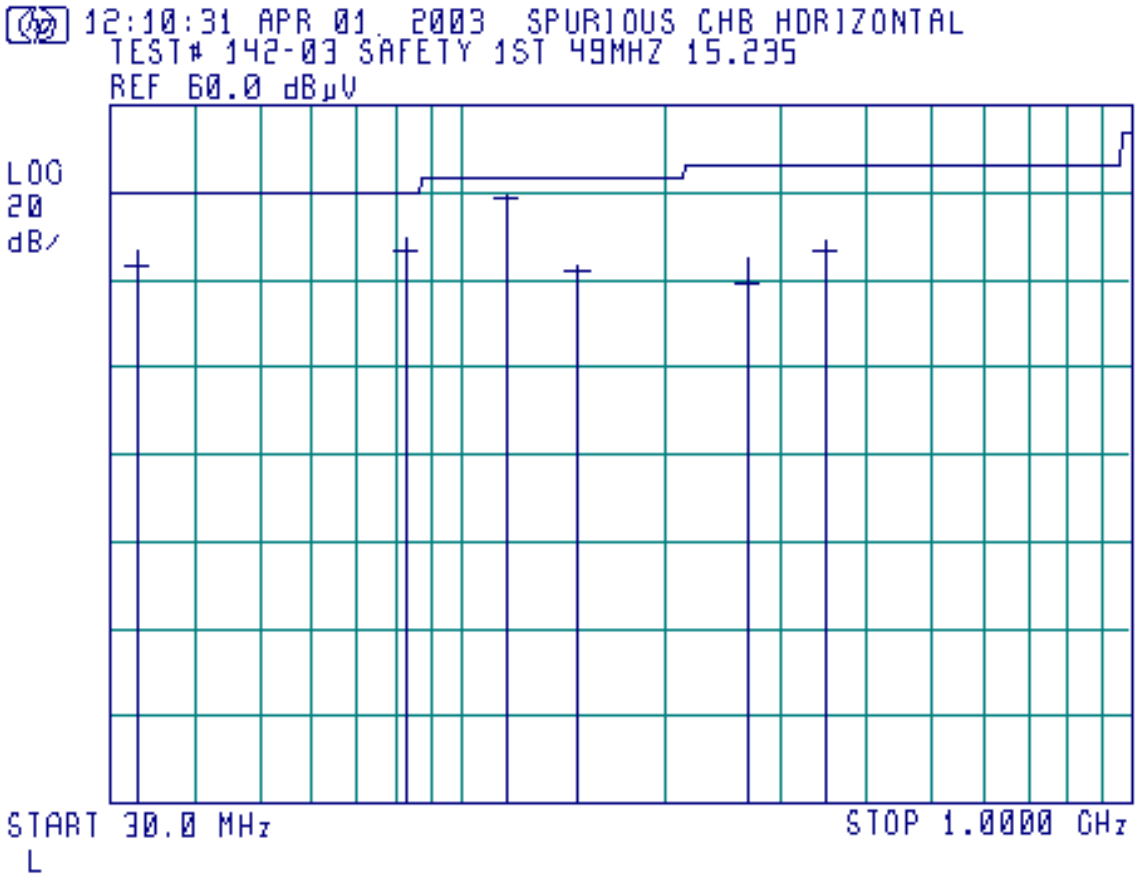
Radiated Horizontal Channel B Log Plot



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Radiated Horizontal Channel B Tabular Data

Freq (MHz)	Azimuth (Degrees)	Antenna Height (Meters)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
33.257500	290	1.0	26.63	23.64	40.00	-16.36
83.117025	118	3.2	30.32	27.11	40.00	-12.89
116.366800	80	2.9	40.00	39.32	43.50	-4.18
149.630350	230	2.1	23.95	22.26	43.50	-21.24
265.990350	124	1.2	25.17	19.68	46.00	-26.32
349.109300	44	1.2	29.14	27.08	46.00	-18.92

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RADIATED OUTPUT POWER & OCCUPIED BANDWIDTH TEST RESULTS

Frequency Range:	49.82-49.90 MHz.
Measurement Distance:	3.0 Meters.
Bandwidth:	As Noted, Per ANSI C63.4-1992.
Detector Functions:	Peak, Quasi Peak, Average.
Video Filter:	As Noted
Table Height:	0.8 meters
Antenna Height Variation:	1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken, Worst Case Reported.

PLEASE SEE NEXT PAGE(S) FOR OCCUPIED BANDWIDTH RADIATED TEST DATA

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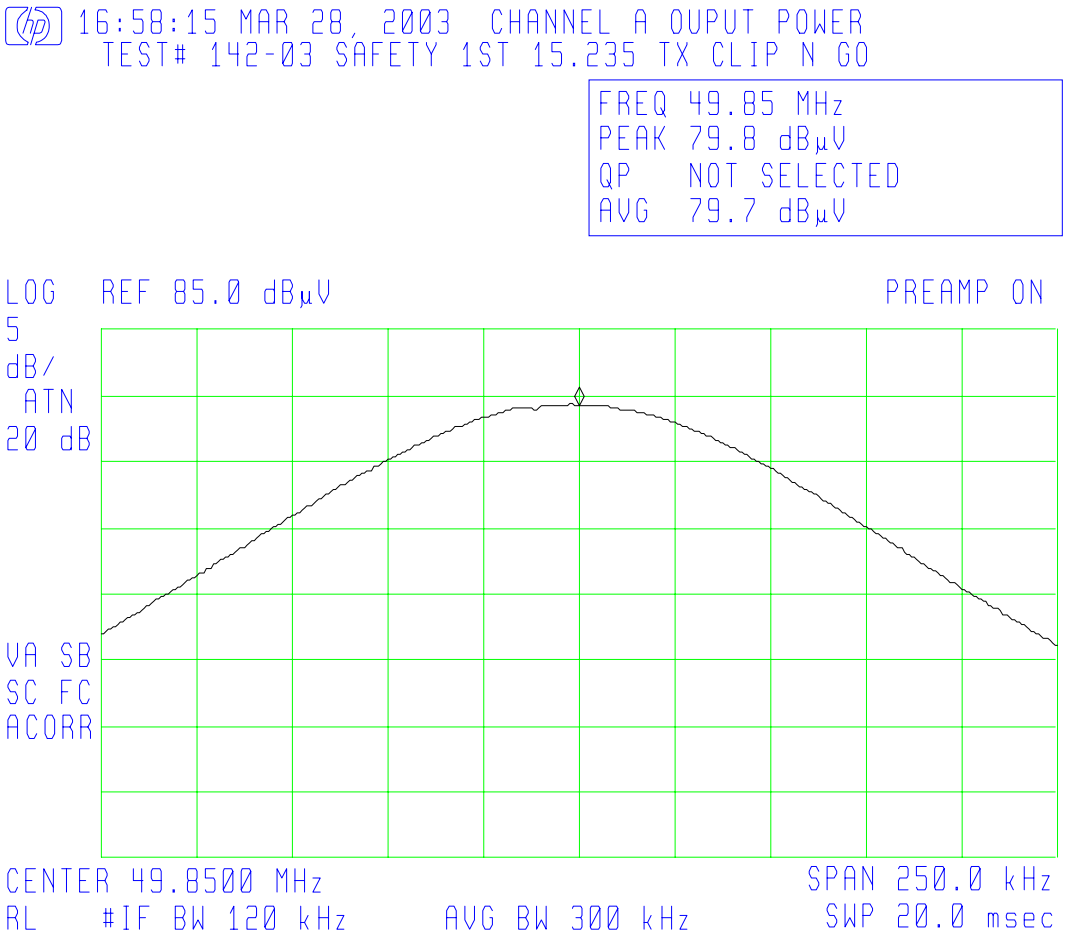
Channel A Output Power Plot



Freq (MHz)	Azimuth (Degrees)	Antenna Height (meters)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
49.8500	180	1.0	79.8	79.7	80.0	-0.3

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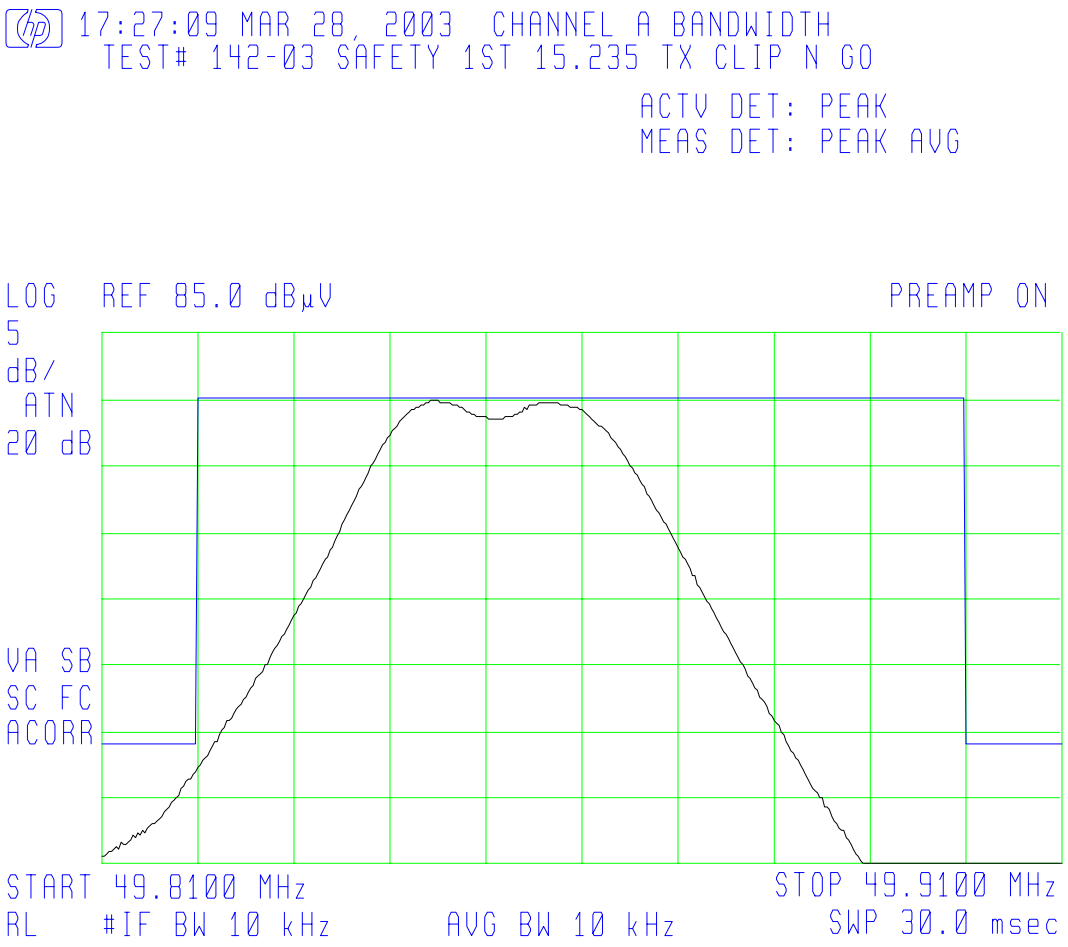
Channel A Occupied Bandwidth Plot



Plot shows limit and 26 dB down with edges at 49.82 and 49.90.
Emission is within the band at maximum modulation using a 2.5kHz tone.
Bandwidth was examined form 100 Hz to 8kHz, worst case is as shown.

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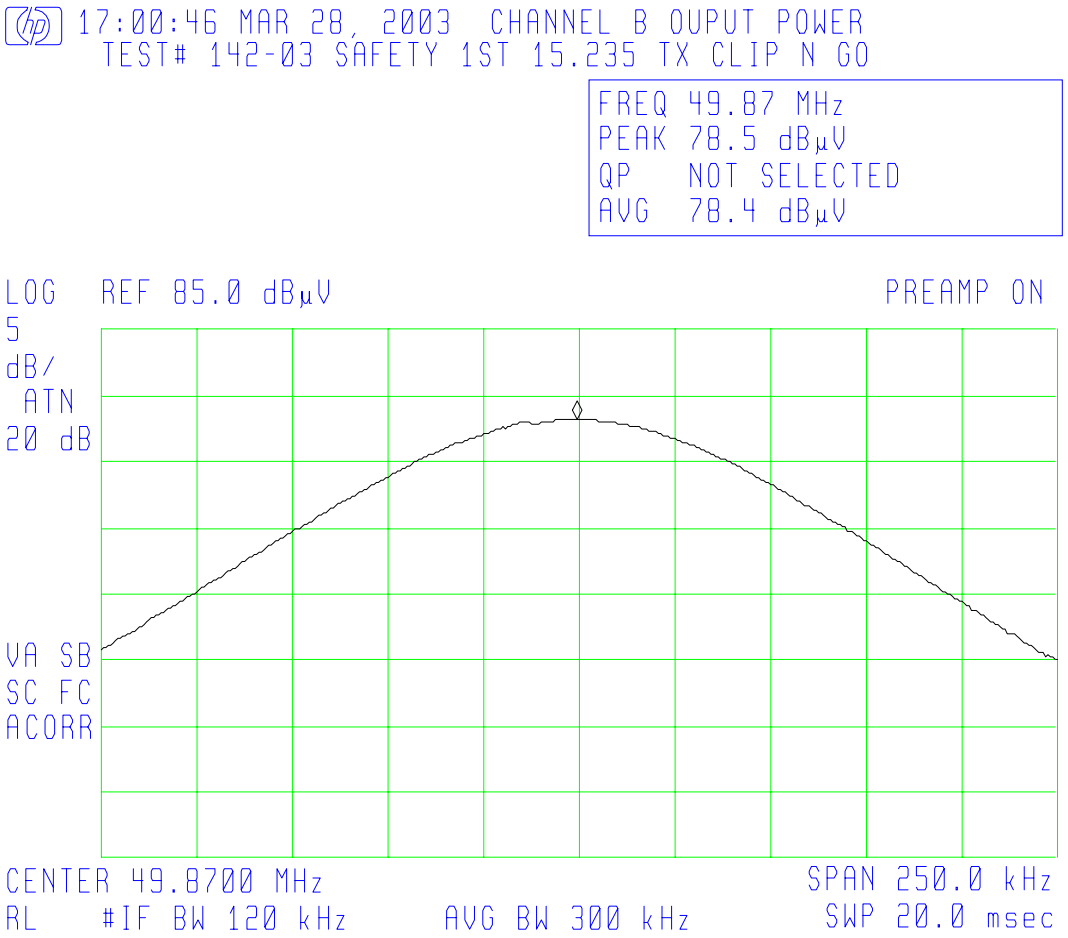
Channel B Output Power Plot



Freq (MHz)	Azimuth (Degrees)	Antenna Height (meters)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
49.8700	180	1.0	78.5	78.4	80.0	-1.6

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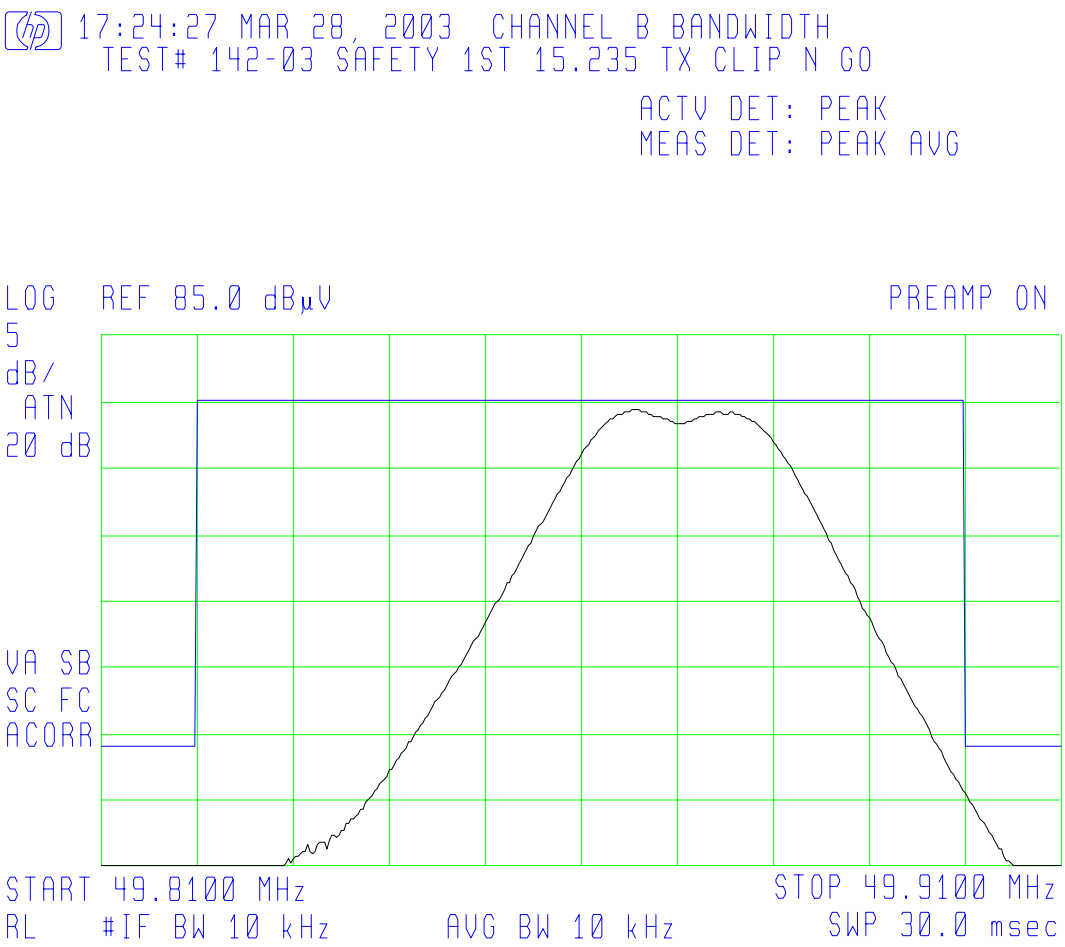
Channel B Occupied Bandwidth Plot



Plot shows limit and 26 dB down with edges at 49.82 and 49.90.
Emission is within the band at maximum modulation using a 2.5kHz tone.
Bandwidth was examined form 100 Hz to 8kHz, worst case is as shown.

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CONDUCTED TEST RESULTS

Frequency Range:	150 kHz to 30.0 MHz.
Bandwidth:	9 kHz per ANSI C63.4-1992.
Detector Functions:	Peak, Quasi-Peak, Average
Table Height:	0.8 meters
Video Bandwidth:	30 kHz.

Phase and Neutral Measurements Taken.

PLEASE SEE NEXT PAGE FOR CONDUCTED TEST DATA

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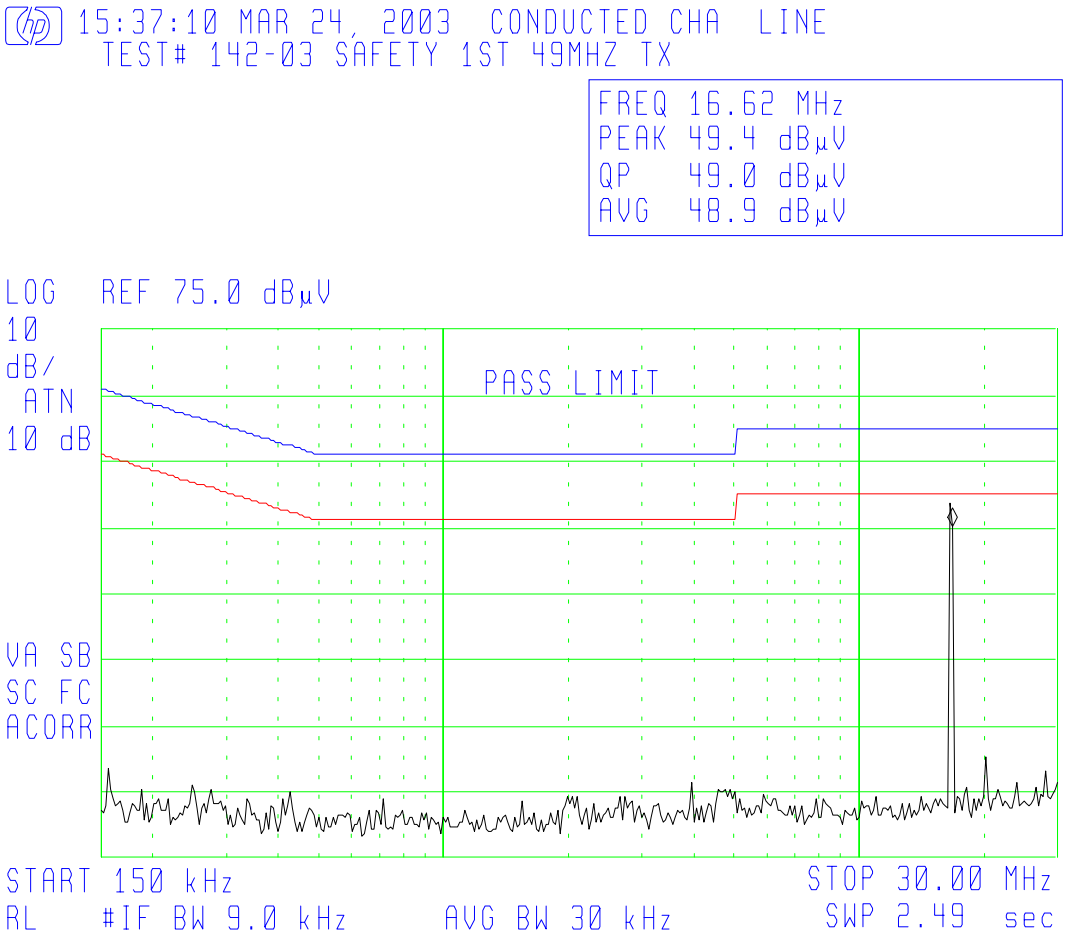
Conducted Channel A 120V 60Hz Phase Data Log Plot



Freq (MHz)	QP Amp (dBuV/m)	Avg Limit (dBuV/m)	QP-Avg Margin (dB)
16.62	49.0	50.0	-1.0

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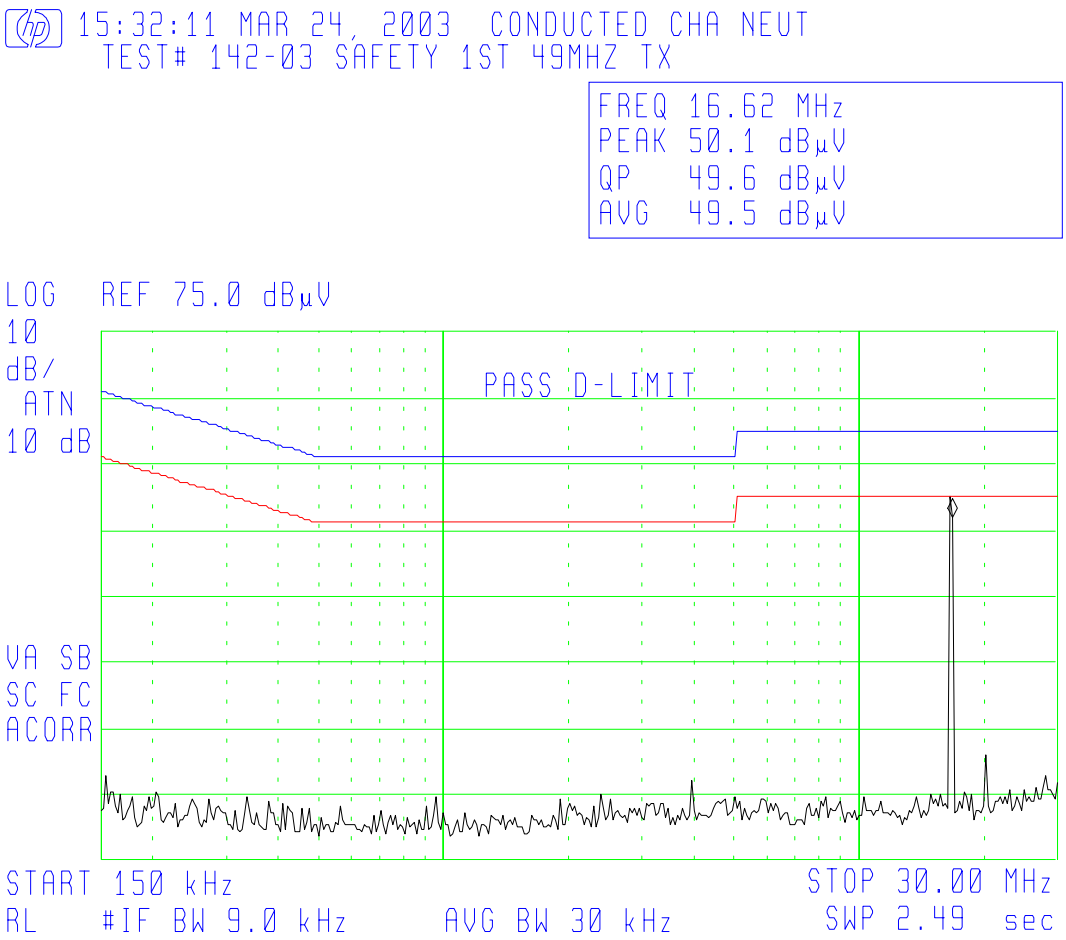
Conducted Channel A 120V 60Hz Neutral Data Log Plot



Freq (MHz)	QP Amp (dBuV/m)	Avg Limit (dBuV/m)	QP-Avg Margin (dB)
16.62	49.6	50.0	-0.4

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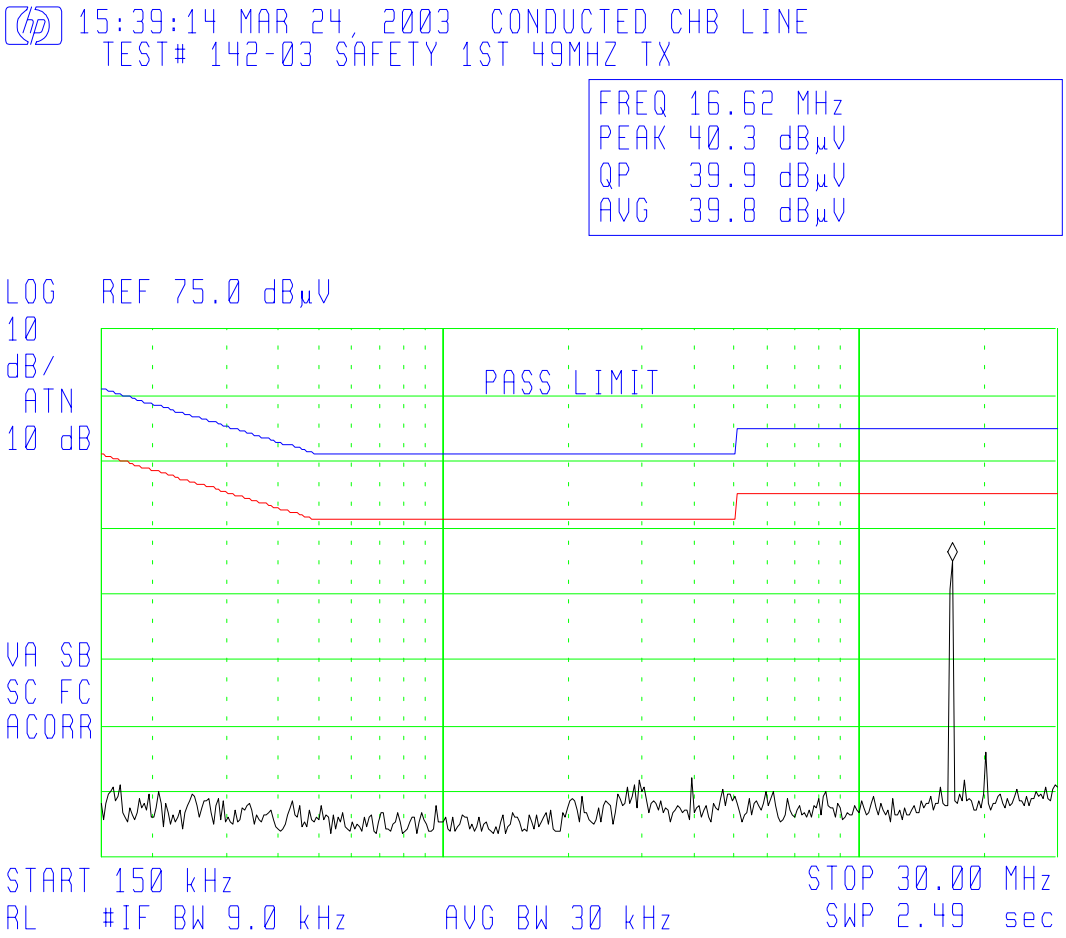
Conducted Channel B 120V 60Hz Phase Data Log Plot



Freq (MHz)	QP Amp (dBuV/m)	Avg Limit (dBuV/m)	QP-Avg Margin (dB)
16.62	39.9	50.0	-10.1

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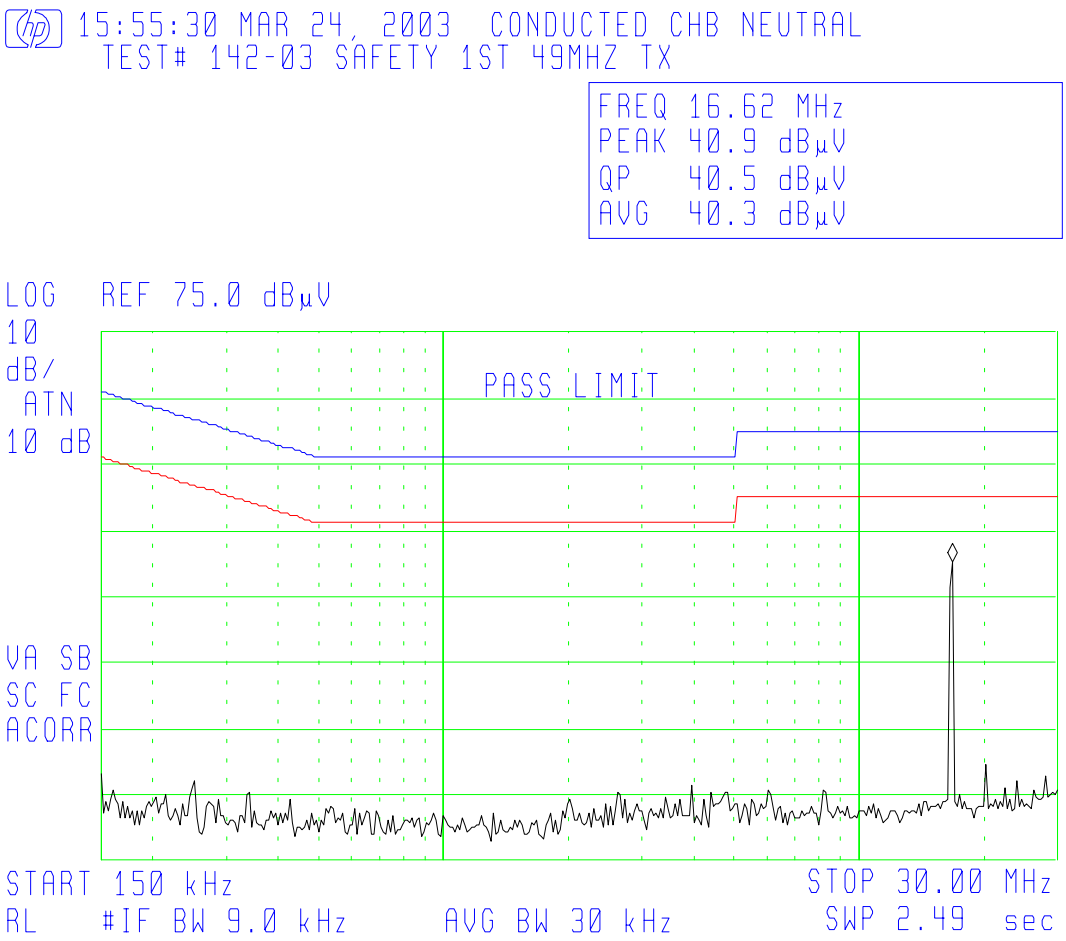
Conducted Channel B 120V 60Hz Neutral Data Log Plot



Freq (MHz)	QP Amp (dBuV/m)	Avg Limit (dBuV/m)	QP-Avg Margin (dB)
16.62	40.5	50.0	-9.5

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NOTES AND COMMENTS

(Special conditions unique to this test)

None.