A H D EMC Laboratory 92723 M-152, Dowagiac, MI 49047 USA Phone: (616) 424-7014 www.ahde.com

EXHIBIT K: REPORT OF MEASUREMENTS [2.1033(B6)]

Test Report for FCC ID: CB2HONDAHL3

FCC Part 2.1031, Part 15 Subpart C(15.231)

Report #20000309F Issued 5/08/00

TRANSMITTER MODEL CB2HONDAHL3 OF HOMELINK® III SERIES

Prepared for:

Mr. Art Vonderwell Johnson Controls Interiors, LLC One Prince Center Holland, MI 49423

Test Date(s): April 11 thru April 27, 2000

data recorded by

-Ked Chaffer

Ted Chaffee, NCE Test Engineer, AHD

This report prepared by:

Ked cheffer

Ted Chaffee, NCE Technical Manager/Test Engineer, AHD

witnessed by

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Statements Concerning this Report

Test Traceability:

The calibration of all measuring and test equipment and the measured data using this equipment are traceable to the National Institute for Standards and Technology (NIST).

Limitations on results:

The test results contained in this report relate only to the Item(s) tested. Any electrical or mechanical modification made to the test item subsequent to the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item subsequent to this test date shall require an evaluation to verify continued compliance.

Limitations on copying:

This report shall not be reproduced, except in full, without the written approval of AHD.

Limitations of the report:

This report shall not be used to claim product endorsement by NVLAP, FCC, or any agency of the US Government.

Statement of Test Results Uncertainty: Following the guidelines of NAMAS publication NIS81 and NIST Technical Note 1297, the Measurement Uncertainty at a 95% confidence level is determined to be: $\pm 3.6 \text{ dB}$

Manufacturer/Applicant [2.1033(b1)]

The manufacturer and applicant:

JOHNSON CONTROLS INTERIORS, LLC. One Prince Center Holland, Michigan 49423

Measurement/Test Site Facility & Equipment

Test Site [2.948, 2.1033(b6)]

The AHD test facility is centered on 9 acres of rural property near Sister Lakes, Michigan. The mailing address is 92723 M-152, Dowagiac, Michigan 49047. This test facility is NVLAP accredited (LabCode 200129-0). It has been fully described in a report filed with the FCC and Industry Canada. The report filed with the FCC is, dated November 5, 1996, was accepted by the FCC in a letter dated January 15, 1997, (31040/SIT 1300F2). The report filed with Industry Canada, dated August 11, 1998, was accepted via a letter dated September 1, 1998, (file:IC3161).

Measurement Equipment Used [2.947(d), 15.31(b)]

Model	S/N	Last Cal	Calibration
		Date	Interval
HP 8546A			
HP-85460A	3448A00283	22-Jun-99	12 month
HP-85462A	3625A00342	22-Jun-99	12 month
3142	1077	07-Sep-99	12 months
RG58/U	9910-12	29-Oct-99	6 months
RGA-60	6147	16-Mar-99	12 months
	HP 8546A HP-85460A HP-85462A 3142 RG58/U	HP 8546A HP-85460A 3448A00283 HP-85462A 3625A00342 3142 1077 RG58/U 9910-12	Date HP 8546A HP-85460A 3448A00283 22-Jun-99 HP-85462A 3625A00342 22-Jun-99 3142 1077 07-Sep-99 RG58/U 9910-12 29-Oct-99

Measurement Environment

The tests were performed with the equipment under test, and measurement equipment inside the all-weather enclosure. Ambient temperature was 22deg.C., the relative humidity 40%.

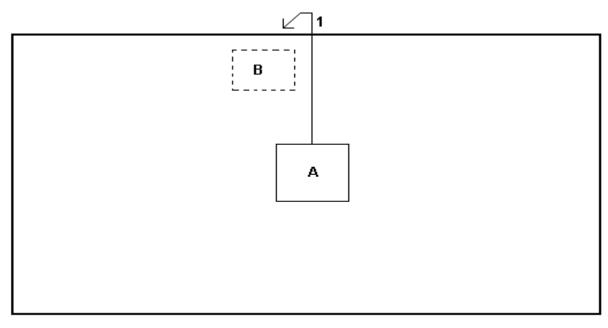
Tested Configuration /Setup: [2.1033(b8)]

Setup Diagram Legend	Description	Model	Serial No. / Part No.	EMC Consideration
А	[EUT] Universal	[JCI]		FCC ID: CB2HONDAHL3
В	Garage Door Opener 12V DC	CB2HONDAHL3 [Kikusui]	47263914	Located on the turntable base below
D	Power Supply	PAB 18-3	47203914	the EUT table.
1	Power Supply Cable			2 meters, Unshielded, 2-lead lightly
	Harness			twisted cable harness.

Support Equipment & Cabling

Setup Diagram

Note: Setup photographs are located in Attached Electronic File, Exhibit L.



setup_11

BASIC EUT SETUP (Legend designation is above)

Summary of Results:

- 1. This test series evaluated the Equipment Under Test to FCC Part 15, SubPart C.
- 2. The system tested is compliant to the requirement of CFR 47, FCC Part 15, SubPart C for periodic operation in the allowed frequency bands above 70MHz, (Part 15.231).
- 3. The equipment under test was received on April 11, 2000 and this test series commenced on April 11, 2000.
- 4. The line conducted emission testing does not apply to this product. The device is powered from a 12 volt automobile source.
- 5. The preliminary scan for spurious emissions conducted in a shielded room showed no observable spurious emissions other than the harmonics of the fundamental transmit frequency.
- 6. The frequencies selected for final evaluation include 288MHz, 310MHz, and 418MHz. This is in accordance with 47 CFR 15.31(m). The 310MHz was selected as a mid-range frequency because it is the predominant frequency used in controlling garage doors. Past correspondence with the FCC regarding the selection of frequencies and test setup suggest this judgement as appropriate.
- 7. Occupied Band Width of the transmitted signal, at the 20dB point, nearest the limit was measured to be 525KHz. This measurement occurred with the EUT transmitting at 288MHz with a pulse modulation of 30% duty cycle. This measurement is within the allowed 720KHz bandwidth. The greatest bandwidth measured was 585KHz with the EUT transmitting at 418MHz
- 8. The field strength level of the fundamental was measured for 288MHz, 310MHz, and 418MHz. The evaluation showed the emission nearest the limit occurred while operating at 288MHz with 500Hz pulsed modulation at a 50% duty cycle. The EUT was positioned on the 'flat' and the receive antenna oriented in the horizontal polarization. This signal was measured to be 0.4dB below the limit of 73.8dBuV/m (4,898uV/m).
- 9. The evaluation of the field strength levels of the harmonics showed the emission nearest the limit occurred while operating at 418MHz with 500Hz pulsed modulation at 30% duty cycle. The EUT was positioned on the 'flat'; and the receive antenna oriented in the horizontal polarization. This signal, at 836MHz, was measured to be 0.7dB below the limit of 60.3dBuV/m (1035uV/m).
- 10. Digital Spurious Emissions: The are no detectable spurious emissions associated with the digital portion of the CB2HONDAHL3.
- 11. The average value of the coarse tune pulses over a 100mSec time, nearest the limit, occurred at 418MHz. The average measurement was determined to be 7706uV/m which is 2.5dB below the limit of 10,333uV/m.
- 12. The average value of the fine tune pulses over a 100mSec time, nearest the limit, occurred at 418MHz. The average measurement was determined to be 1836uV/m which is 15.0dB below the limit of 10,333uV/m.

Changes made to achieve compliance

1. NONE

Standards Applied to Test: [2.1033(b6)]

ANSI C63.4 - 1992, Appendix I CFR47 FCC Part 2, Part 15, SubPart C, 15.231 Intentional Radiator; SubPart B, Digital Device

Test Methodology: [2.1033(b6)]

The pictures in this report, showing test setups, indicate the agreed upon configuration of testing for this product-type.

For the testing, the EUT was placed at the center of the table 80cm above the ground plane pursuant to ANSI C63.4 for stand-alone equipment. The 12volt supply harness was routed to the edge of the long side of the table then down to the power supply located on the turntable base.

The line conducted emission testing was not performed on this product. In its final configuration the product is powered from an automobile 12 volt system only.

Radiated

The system was placed upon a $1 \ge 1.5$ meter non-metallic table 80cm above the open field site ground plane in the prescribed setup per ANSI C63.4, Figure 9(c).

The table sits upon a remote controlled turntable. The receiving antenna, located at the appropriate standards distance of 3 or 10 meters from the table center, is also remote controlled.

The principle settings of the EMI Receiver for radiated testing include:

IF Bandwidth:	120KHz for frequencies less than 1GHz.
	1 MHz for frequencies greater than 1GHz.
Detector Function:	Peak Mode
	The Average levels were determined mathematically based upon the
	duty cycle of the pulsed modulation of the transmitted signal.

At frequencies up to 1000MHz a BiconiLog broadband antenna was used for measurements.

At frequencies above 1000MHz a double-ridge Horn broadband antenna was used for measurements.

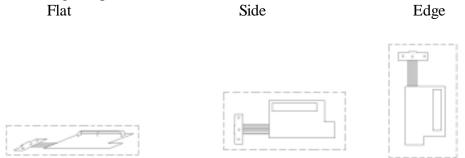
During the evaluation the EUT was transmitting continuously.

The turntable was rotated 360 degrees and the receiving antenna height varied from 1 to 4 meters to search out the highest emissions.

Preliminary tests were done at 288MHz, 310MHz, 360MHz, and 418MHz. The final measurements were made at a low band frequency (288MHz), a mid band frequency (310MHz), and a high band frequency (418MHz) pursuant to the requirements of 47CFR 15.31(m). At each frequency the EUT was placed in three orthogonal positions. At each position a 500Hz pulse modulation was adjusted to a 30%, 50%, and 80% duty cycle. At each duty cycle, measurements were taken with the receive antenna in vertical and horizontal positions.

The unit was evaluated up to the tenth harmonic of the fundamental as an intentional radiator, and up to 1000MHz as a digital device.

The orthogonal positions are:



THE HP8546A EMI Receiver has stored in memory the antenna and coax correction factors used in this test. The resultant Field Strength (FS) in dBuV/m presented by the HP8546A is the summation in decibels (dB) of the Received Level (RF), the Antenna Correction Factor (AF), and the Cable Loss Factor (CF).

Formula 1: FS(dBuV/m) = RF(dBuV) + AF(dB/m) + CF(dB)

The resultant Field Strength measurement is recorded using the peak hold detector of the HP8546A.

This recorded peak level is further corrected, by calculation, to an average level by a factor determined by the duty cycle of the pulsed modulation. The duty cycle factor is determined as outlined in Appendix I4 of the standard ANSI C63.4:1992.

Formula 2:	Average Level(uV/m) = [Peak Level(uV/m)] x [duty cycle factor].
Formula 2a:	Average Level(dBuV/m) = Peak Level)dBuV/m) + duty cycle factor(dB).

The duty cycle factor to apply is determined for the duty cycles of 30%, 50% and 80% as follows.

For 30% (0.30):	duty cycle factor(dB) = $20*Log(0.3) = -10.46$
For 50% (0.50):	duty cycle factor(dB) = $20*Log(0.5) = -6.02$
For 80% (0.80):	duty cycle factor(dB) = $20*Log(0.8) = -1.94$

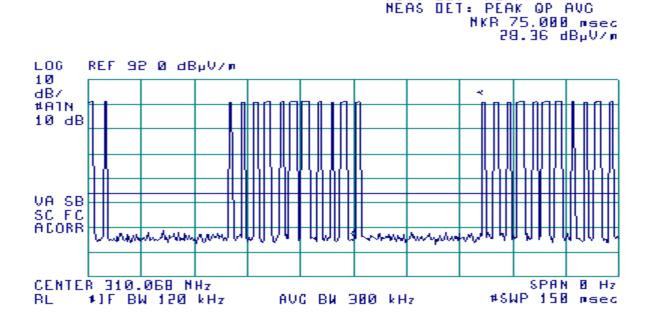
SAMPLE CALCULATION:

A measured peak level of 50% duty cycle pulse modulated signal is 500 uV/m. Calculated to dBuV/m is 20*Log(500) = 53.98dBuV/m Peak level. Applying the duty cycle factor: Avg. Level(dBuV/m) = 53.98 - 6.02dB = 47.96dBuV/m.

Test Data [2.1033(b6)]

Modulation Characteristics

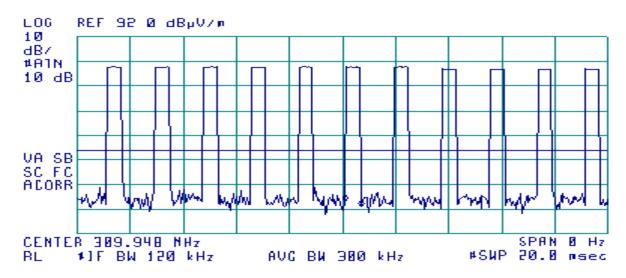
Typical encoding at 310MHz: Consisting of pulses of differing duty cycles.

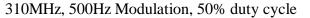




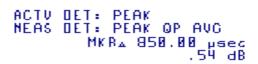
ACTV DET: PEAK NEAS DET: PEAK OP AVC MKR∡ 600.00 µsec -2.17 dB

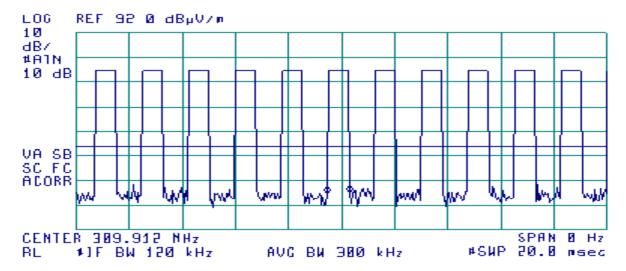
ACTV DET: PEAK





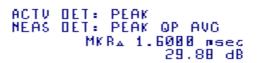
CENTER 309.912 NHz

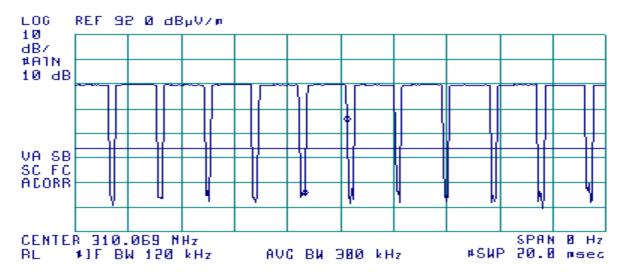




2101/11-	500Uz Modulation	000/	duty avala
STUMPZ,	500Hz Modulation,	80%	auty cycle







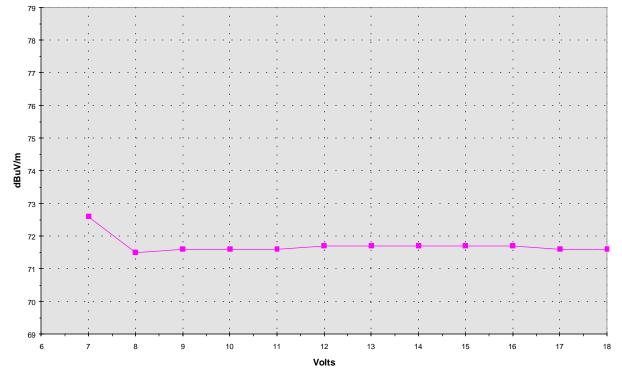
Relative Emission Level vs. Supply Voltage [15.31(e)]

The relative emission level as the supply voltage varied is presented in the charts below.

TX OUTPUT vs. Voltage LEVEL				
DUT= CB2HONDAHL3, 310MHz, 80%duty cycle				
Volt In	TX OutPut			
	Pk dBuV/m			
6	no-op			
7	72.6			
8	71.5			
9	71.6			
10	71.6			
11	71.6			
12	71.7			
13	71.7			
14	71.7			
15	71.7			
16	71.7			
17	71.6			
18	71.6			

OUTPUT FIELD STRENGTH vs INPUT VOLTAGE

[Tuned to 310MHz; Modulated at 500Hz, 80% Duty Cycle]



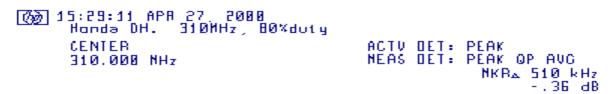
Occupied Bandwidth [15.231(c)]

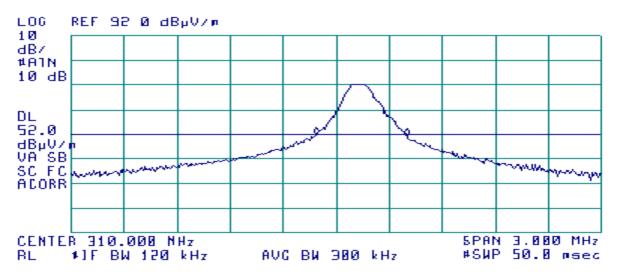
The maximum allowed 20dB bandwidth is determined pursuant to 15.23(c). For fundamental signals between 70MHz and 900MHz the bandwidth allowed is 0.25% of the fundamental.

Formula 2: Allowed bandwidth = [Fundamental] x [.0025]

Fundamental	Duty Cycle	Measured	LIMIT
(MHz)		20dB Bandwidth	Fundamental * .0025
288	30%	480 KHz	720 KHz
"	50%	503 KHz	720 KHz
"	80%	525 KHz	720 KHz
310	30%	518 KHz	775 KHz
"	50%	450 KHz	775 KHz
"	80%	510 KHz	775 KHz
418	30%	585 KHz	1045 KHz
"	50%	548 KHz	1045 KHz
"	80%	510 KHz	1045 KHz

This chart shows a typical measured bandwidth signal.





Restricted Bands: [15.205]

The following frequency bands are restricted. Only spurious emissions are permitted at levels limited by 15.209:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.25
0.490-0.510	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

LIMIT @ 3meter: [15.209(a)]

30-88MHz	100uV/m	40dBuV/m
88-216MHz	150uV/m	43.5dBuV/m
216-960MHz	200uV/m	46dBuV/m
above 960MHz	500uV/m	54dBuV/m

Verification of no capability to tune within the Restricted Bands.

The unit is designed capable of tuning from 285MHz to 420MHz. Except that the Homelink® III firmware prevents the possibility of tuning to the restricted regions of 322-325.4MHz, 399.9-410MHz, and 240-285MHz.

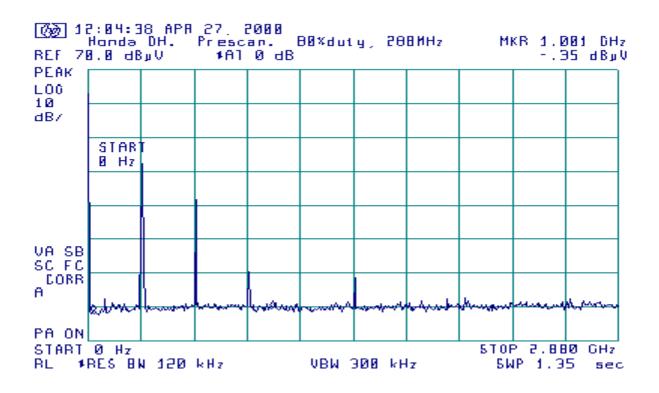
An exercise which attempted to train the units into the restricted bands demonstrated how well the firmware functioned. The unit could not be trained any closer to the restricted band area than 1MHz outside the restricted bands edges.

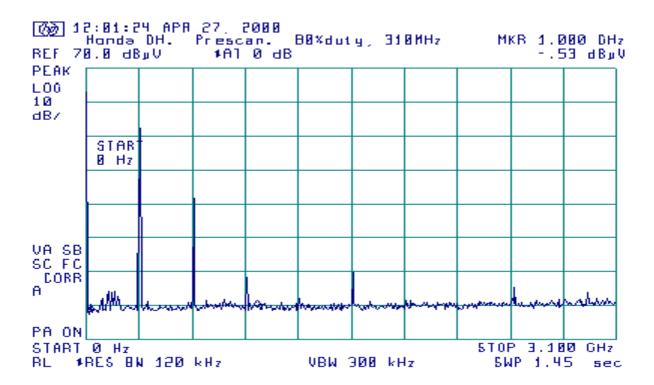
The spurious emissions observed in the restricted bands did not exceed the allowed limits for the restricted bands.

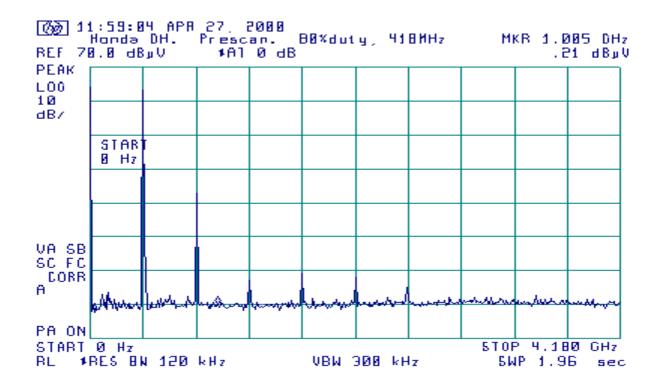
Radiated Field Strength Measurements: [15.231(b), 15.205]

A scan of the CB2HONDAHL3 was made in a shielded room to study the emission profile of the EUT. These scans indicate there are no emissions from the unit other than the fundamental and its associated harmonics.

The following three charts show the spectrum pattern of the EUT emissions. The levels indicated are not calibrated levels.







Field Strength Measurements of Fundamental : [15.231(b)]

MEASUREMENT PROCEDURE:

- 1. The EUT was trained to one of the three test frequencies.
- 2. The EUT was trained to one of the three test duty cycles.
- 3. The EUT was setup to one of the three orthogonal positions.
- 4. Steps 1-3 were repeated to cover all positions, duty cycles, and frequencies.

DUT Tuned to transmit at 288MHz

Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated	FCC	Margin	Cable +Ant.
	position	Pol.	Data	Cycle	Cycle	Average	Limit		Factor
			Peak Detector		Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
288	flat	Η	83.7	30%	-10.46	73.2	73.8	0.6	14.29
"	"	"	79.1	50%	-6.02	73.4	73.8	0.4	"
"	"	"	74.4	80%	-1.94	72.5	73.8	1.3	"

DUT Tuned to transmit at 310MHz

Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated	FCC	Margin	Cable +Ant.
	position	Pol.	Data	Cycle	Cycle	Average	Limit		Factor
			Peak Detector		Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
310	side	Η	82.4	30%	-10.46	71.9	75.3	3.4	14.94
"	"	"	77.7	50%	-6.02	71.7	75.3	3.6	"
"	"	"	72.9	80%	-1.94	71.0	75.3	4.3	"

DUT Tuned to transmit at 418MHz

Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated	FCC	Margin	Cable +Ant.
	position	Pol.	Data	Cycle	Cycle	Average	Limit		Factor
			Peak Detector		Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
418	end	V	87.0	30%	-10.46	76.5	80.3	3.8	17.44
"	"	"	82.0	50%	-6.02	76.0	80.3	4.3	"
"	"	"	78.4	80%	-1.94	76.5	80.3	3.8	"

Field Strength Measurements of Harmonics: [15.231(b), 15.205]

Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated	FCC	Margin	Cable +Ant.
1104.	position		Data	Cycle	Cycle	Average	Limit	1, Iai Sill	Factor
	Position	1 011	Peak Detector	0)010	Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
576	flat	Η	60.2	30%	-10.46	49.7	53.8	4.1	21.0
"	"	"	54.7	50%	-6.02	48.7	53.8	5.1	"
"	"	"	47.3	80%	-1.94	45.4	53.8	8.4	"
864	flat	Н	47.8	30%	-10.46	37.3	53.8	16.5	24.8
"	"	V	40.1	50%	-6.02	34.1	53.8	19.7	"
"	"	Н	33.3	80%	-1.94	31.4	53.8	22.4	"
1152	end	Н	37.1	30%	-10.46	26.6	54.0	27.4	26.2
"	"	"	35.2	50%	-6.02	29.2	54.0	24.8	"
"	"	"	34.2	80%	-1.94	32.3	54.0	21.7	"
1440	flat	Н	41.9	30%	-10.46	31.4	54.0	22.6	27.1
"	"	"	38.3	50%	-6.02	32.3	54.0	21.7	"
"	"	"	37.7	80%	-1.94	35.8	54.0	18.2	"
1728	flat	Н	38.6	30%	-10.46	28.1	54.0	25.9	30.2
"	"	"	37.6	50%	-6.02	31.6	54.0	22.4	"
"	"	"	37.3	80%	-1.94	35.4	54.0	18.6	"
2016	side	Н	40.5	30%	-10.46	30.0	54.0	24.0	33.0
"	-	"	40	50%	-6.02	<34	54.0	>20	"
"		"	Noise Floor	0004	1.0.4	20	- 4 0		"
	-		40 Noise Floor	80%	-1.94	<38	54.0	>16	
2304	-	Н	39	30%	-10.46	<28	54.0	>26	32.1
"		"	Noise Floor						"
	-		39 Noise Floor	50%	-6.02	<33	54.0	>21	
"	-	"	39	80%	-1.94	<37	54.0	>17	"
			Noise Floor						
2592	-	Н	39 Noise Floor	30%	-10.46	<28	54.0	>26	32.2
"	_	"	Noise Floor	50%	-6.02	<33	54.0	>21	"
			Noise Floor						
"	-	"	39 Naisa Flaar	80%	-1.94	<37	54.0	>17	"
2880	_	Н	Noise Floor 40	30%	-10.46	<30	54.0	>24	33.5
			Noise Floor	5070	10.40	\ 50	5 6.0	~ 47	
"	-	"	40	50%	-6.02	<34	54.0	>20	"
"	_	"	Noise Floor 40	80%	-1.94	<38	54.0	>16	"
			HO Noise Floor	0070	1.77	<u>\</u> 30	54.0	~10	
Tha a	ra no (1 4	able enurious			• 4 1 •	1 /1 1	· · · 1	

DUT Tuned to transmit at 288MHz

DUT Tuned to transmit at 310MHz

Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated		Margin	
	position	Pol.	Data	Cycle	Cycle	Average	Limit		Factor
			Peak Detector		Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
620	flat	Η	62.6	30%	-10.46	52.1	55.3	3.2	21.7
"	"	"	55.7	50%	-6.02	49.7	55.3	5.6	"
"	"	"	48.7	80%	-1.94	46.8	55.3	8.5	"
930	flat	Н	45.3	30%	-10.46	34.8	55.3	20.5	25.3
"	emd	"	30.4	50%	-6.02	24.4	55.3	30.9	"
"	flat	"	33.6	80%	-1.94	31.7	55.3	23.6	"
1240	flat	Н	38.5	30%	-10.46	28.0	54.0	26.0	26.5
"	"	"	35.7	50%	-6.02	29.7	54.0	24.3	"
"	side	"	34.5	80%	-1.94	32.6	54.0	21.4	"
1550	flat	Н	41.2	30%	-10.46	30.7	54.0	23.3	28.0
"	"	"	38.5	50%	-6.02	32.5	54.0	21.5	"
"	"	"	38.4	80%	-1.94	36.5	54.0	17.5	"
1860	side	Н	38.8	30%	-10.46	28.3	55.3	27.0	31.6
"	"	"	38.2	50%	-6.02	32.2	55.3	23.1	"
"	-	"	38.0	80%	-1.94	<36	55.3	>19	"
2170	aida	тт	Noise Floor	200/	10.46	20.7	FF 2	26.6	22.4
2170	side	H "	39.2 28.2	30%	-10.46	28.7	55.3	26.6 22.0	32.4
"	"	"	38.3	50%	-6.02	32.3	55.3	23.0	"
			38.0 Noise Floor	80%	-1.94	<36	55.3	>19	
2480	-	Н	38	30%	-10.46	<28	55.3	>27	31.8
"		"	Noise Floor	500/	6.00		55 0	22	"
	-		38 Noise Floor	50%	-6.02	<32	55.3	>23	
"	-	"	38	80%	-1.94	<36	55.3	>19	"
2700		тт	Noise Floor	2004	10.40	.20	540		22.1
2790	-	Н	40 Noise Floor	30%	-10.46	<39	54.0	>15	33.1
"	-	"	40	50%	-6.02	<34	54.0	>20	"
"		"	Noise Floor	0.004	1.04	.20	E 4 O	. 1.	"
	-		40 Noise Floor	80%	-1.94	<38	54.0	>16	
3100	-	Н	40	30%	-10.46	<39	54.0	>15	34.2
"		"	Noise Floor	5004	C 02		54.0		"
••	-		40 Noise Floor	50%	-6.02	<34	54.0	>20	
"	-	"	40	80%	-1.94	<38	54.0	>16	"
			Noise Floor						
		<u> </u>							
The e		lataat	able spurious	aminaic	n a 0.00	agiated with	h tha	ligital m	antion of the

DUT Tuned to transmit at 418MHz

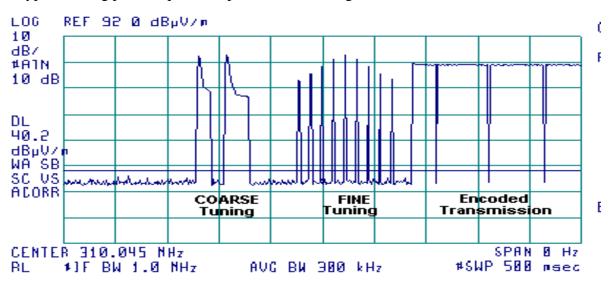
Freq.	DUT	Ant.	Corrected	Duty	Duty	Calculated	FCC	Margin	Cable +Ant.
	position	Pol.	Data	Cycle	Cycle	Average	Limit		Factor
			Peak Detector		Factor	Level			
MHz			dBuV/m	%	dB	dBuV/m	dBuV/m	dB	dB+dB/m
836	flat	Η	70.1	30%	-10.46	59.6	60.3	0.7	24.6
"	"	"	61.4	50%	-6.02	55.4	60.3	4.9	"
"	"	"	57.0	80%	-1.94	55.1	60.3	5.2	"
1254	flat	Н	45.4	30%	-10.46	34.9	54.0	19.1	26.5
"	"	"	40.4	50%	-6.02	34.4	54.0	19.6	"
"	end	"	35.8	80%	-1.94	33.9	54.0	20.1	"
1672	side	Н	42.8	30%	-10.46	32.3	54.0	21.7	29.5
"	"	"	40.0	50%	-6.02	34.0	54.0	20.0	"
"	"	"	40.0	80%	-1.94	38.1	54.0	15.9	"
2090	side	Н	46.7	30%	-10.46	36.2	60.3	24.1	32.7
"	"	"	43.3	50%	-6.02	37.3	60.3	23.0	"
"	"	"	41.9	80%	-1.94	40.0	60.3	20.3	"
2508	side	Н	40.1	30%	-10.46	29.6	60.3	30.7	31.8
"	"	"	38.6	50%	-6.02	35.6	60.3	24.7	"
"	-	"	38	80%	-1.94	<36	60.3	>54	"
2026			Noise Floor	200/	10.46	20	(0.2		22.7
2926	-	Η	39 Noise Floor	30%	-10.46	<28	60.3	>32	33.7
"	-	"	39	50%	-6.02	<33	60.3	>27	"
"		"	Noise Floor	000/	1.0.4	07	60 0	•••	"
	-		39 Noise Floor	80%	-1.94	<37	60.3	>23	
3344	-	Н	40	30%	-10.46	<29	60.3	>31	34.8
"		"	Noise Floor	5 00/	< 0 0	2.4	60 0	•	"
	-		40 Noise Floor	50%	-6.02	<34	60.3	>26	
"	-	"	40	80%	-1.94	<38	60.3	>22	"
			Noise Floor						
3762	-	Н	41 Noise Floor	30%	-10.46	<30	54.0	>24	35.8
"	-	"	41	50%	-6.02	<35	54.0	>19	"
			Noise Floor						
"	-	"	41 Noise Floor	80%	-1.94	<39	54.0	>15	"
4180	_	Н	Noise Floor 42	30%	-10.46	<32	54.0	>22	36.1
			Noise Floor						
"	-	"	42 Naise Flaar	50%	-6.02	<36	54.0	>18	"
"	_	"	Noise Floor 42	80%	-1.94	<40	54.0	>14	"
			Noise Floor	0070	1.71		21.0	~ 17	
The a	re no d	letect	able spurious	emissic	me ace	ociated wit	h the d	lioital n	ortion of the

Calculation of Field Strength of Tuning Pulses: [15.231(b)], 15.31(c)]

The tuning pulses are generated each time the CB2HONDAHL3 is activated.

The tuning pulse sequence is: During the first 100mSec of activation two pulses of a 'coarse' tune. During the second 100mSec of activation are nine pulses of a 'fine' tune. At approximately 200mSec after activation the encoded transmission begins.

The signal levels of the tuning pulses were maximized by maximizing the signal levels of the pulse modulated transmission. The antenna height and turntable azimuth for maximum emission levels were adjusted while measuring the field strength of the pulse modulated transmissions.



A typical tuning pulse sequence is presented in this figure below.

To determine level of the tuning pulses for comparison to the limits, the following procedure was used.

MEASUREMENT PROCEDURE:

- 1. The EUT was trained to each of the three test frequencies at 30% duty cycle of the 500Hz modulating pulse.
- 2. The HP8456A EMI Receiver was adjusted to a fundamental frequency and set at 0Hz span, with 1MHz IF Bandwidth.
- 3. The trigger level was adjusted to capture the pulses of interest.
- 4. The EUT was activated and a single trace recorded on the Receiver in order to capture the tuning pulses.
- 5. The captured trace was digitally stored. The stored data points (400 data points for a full screen trace) were then used in calculations to determine the levels of the pulses.

CALCULATION OF THE FIELD STRENGTH OF THE TUNING PULSES.[15.35(c)]

Pursuant to 47 CFR 15.35(c), the field strength is determined by averaging over ONE complete pulse train up to 100mSec, including blanking intervals.

1. First was determined the number of data points captured which represented 100mSec span of time. There are 400 data points stored for one complete trace. The scan rate of the HP8546A receiver was set to capture the tuning pulses.

Therefore: Number of data points per 100mSec = 100mSec * (400pts/scan) / (No. of mSec/scan). Example: If the scan rate is set at 240mSec, then the number of data points per 100mSec is 100mSec * (400pts / 240mSec) = 167 pts.

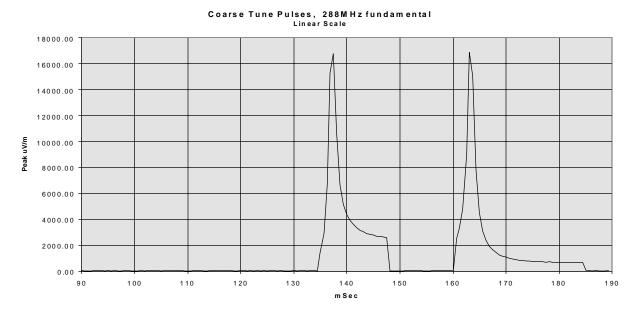
2. The AVERAGE field strength level (uV/m) within the 100mSec is then determined by dividing SUM of the levels (uV/m) of all data points by the number of data points.

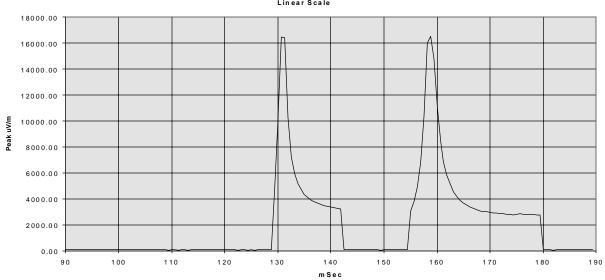
Formula 3: Average Field Intensity

Avg. F.I. =
$$\frac{\sum_{n=1}^{no. of data pts} (Level_n) uV/m}{V/m}$$

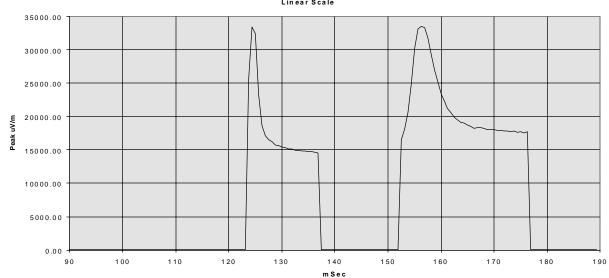
(number of data points)

The charts that follow are the reproduction of the coarse tune pulse traces using number of data points representing 100mSec sweep time from the screen display of the HP8546A EMI receiver.

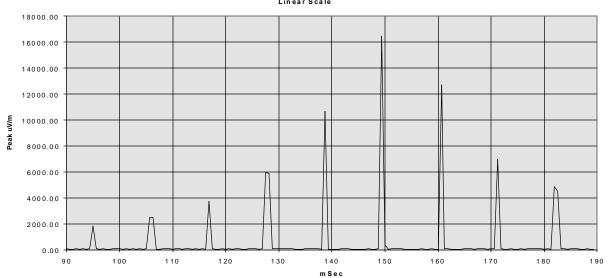




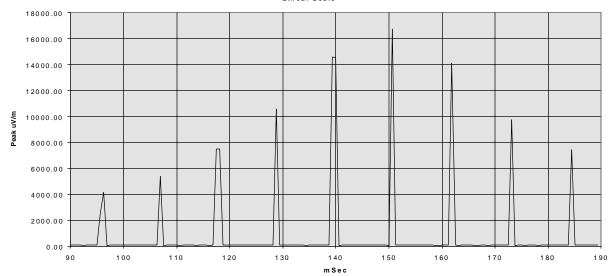
Coarse Tune Pulses, 310M Hz fundamental Linear Scale



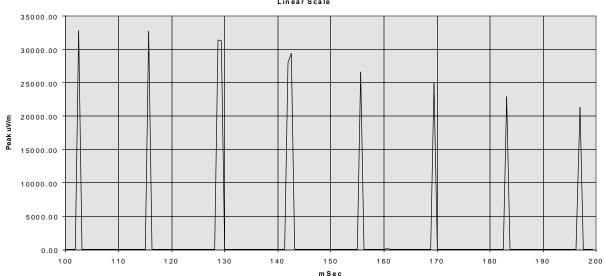
Coarse Tune Pulses, 418MHz fundamental Linear Scale



Fine Tune Pulses, 288MHz fundamental Linear Scale



Fine Tune Pulses, 310MHz fundamental Linear Scale



Fine Tune Pulses, 418M Hz fundamental Linear Scale

The raw data used in calculating the average field intensity of the tuning pulses are presented in the Appendix of this test report.

COARSE TUNE PULSES,	Calculated average over 100mSec

ΤX	SUM of the levels of all data	Number of Data points	Average	LIMIT	MARGIN
Freq.	points in 100mSec span	in 100mSec span	SUM/N		
(MHz)	(uV/m)	Ν	(uV/m)	(uV/m)	(dB)
288	207,334	160	1,296	4917	11.6
310	327,726	160	2,048	5833	9.1
418	1,232,910	160	7,706	10333	2.5

FINE TUNE PULSES, Calculated average over 100mSec

ТΧ	SUM of the levels of all data	Number of Data points	Average	LIMIT	MARGIN
Freq.	points in 100mSec span	in 100mSec span	SUM/N		
(MHz)	(uV/m)	Ν	(uV/m)	(uV/m)	(dB)
288	86,820	160	543	4917	19.1
310	123,171	160	770	5833	17.6
418	293,697	160	1,836	10333	15.0

I

APPENDIX: Tune Pulses - Data Details

Level Level Level Level Level Level Level mSec uV/m mSec uV/m mSec uV/m 1 90 58.28 115 52.37 140 4405.55 165 4533.42 2 90.625 50.12 116.625 61.09 141.87 381.41 126.625 312.83 3 91.25 53.09 117.5 60.46 142.5 316.97 186.75 193.17 39.75 59.22 118.75 49.72 143.75 230.68.44 168.75 193.17 3 94.375 51.23 119.375 50.41 144.375 283.08 168.75 172.4 a7 3 94.55 52.64 120.825 50.50.1 146.825 271.64.4 170.0 108.33 10 96.625 51.70 120.825 50.74 146.875 282.42.2 171.125 94.06 11 96.25 52.64 122.125 50.61 <t< th=""><th></th><th></th><th></th><th></th><th></th><th>ا میرما</th><th></th><th>ا م رما</th></t<>						ا میرما		ا م رما
		~	Level	Level	•	Level	0	Level
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38 113.125 50.52 138.125 10616.96 163.125 16865.53 188.125 50.41 39 113.75 52.24 138.75 6668.07 163.75 15066.07 188.75 46.56								
39 113.75 52.24 138.75 6668.07 163.75 15066.07 188.75 46.56								
	40	114.373	57.00	139.373 3104.10	104.575	1025.20	109.575	52.70

COARSE TUNE Pulse; Fundamental Frequency = 288MHz

COARSE TUNE Pulse; Fundamental Frequency = 310MHz

	_	Level	_	Level	-	Level	-	Level
	mSec	uV/m	mSec	uV/m	mSec	uV/m	mSec	uV/m
1	90	58.41	115	64.05	140	3365.12	165	3672.82
2	90.625	63.46	115.625	55.65	140.625	3311.31	165.625	3503.48
3	91.25	60.12	116.25	59.36	141.25	3277.18	166.25	3365.12
4	91.875	57.02	116.875	59.16	141.875	3224.78	166.875	3284.73
5	92.5	63.46	117.5	62.09	142.5	59.50	167.5	3155.00
6	93.125	53.21	118.125	58.68	143.125	62.73	168.125	3083.19
7	93.75	57.61	118.75	59.63	143.75	54.70	168.75	3033.89
8	94.375	55.91	119.375	54.95	144.375	57.15	169.375	2992.26
9	95	54.08	120	63.61	145	57.61	170	2941.03
10	95.625	60.95	120.625	60.46	145.625	70.47	170.625	2910.72
11	96.25	59.02	121.25	57.15	146.25	69.02	171.25	2887.35
12	96.875	62.73	121.875	52.78	146.875	58.68	171.875	2841.19
13	97.5	57.61	122.5	50.35	147.5	64.86	172.5	2841.19
14	98.125	59.16	123.125	56.69	148.125	59.63	173.125	2824.88
15	98.75	54.70	123.75	62.09	148.75	59.02	173.75	2795.76
16	99.375	53.95	124.375	52.24	149.375	51.35	174.375	2773.32
17	100	64.34	125	64.71	150	55.34	175	2808.67
18	100.625	60.33	125.625	51.40	150.625	66.30	175.625	2831.39
19	101.25	60.33	126.25	60.95	151.25	54.26	176.25	2802.21
20	101.875	59.16	126.875	57.74	151.875	56.82	176.875	2786.12
21	102.5	53.83	127.5	54.95	152.5	55.53	177.5	2795.76
22	103.125	55.34	128.125	61.09	153.125	67.53	178.125	2779.71
23	103.75	52.97	128.75	52.78	153.75	65.09	178.75	2773.32
24	104.375	60.46	129.375	4742.42	154.375	59.16	179.375	2751.06
25	105	53.95	130	10162.49	155	3072.56	180	58.55
26	105.625	72.61	130.625	16481.62	155.625	3788.79	180.625	58.68
27	106.25	62.73	131.25	16443.72	156.25	4926.06	181.25	60.95
28	106.875	61.59	131.875	10244.72	156.875	6807.69	181.875 182.5	51.94
29	107.5 108.125	53.64 59.16	132.5 133.125	7219.38 5915.62	157.5 158.125	10351.42 15995.58	183.125	60.12 57.48
30 31	108.725	57.02	133.75	5164.16	158.75	16538.65	183.75	57.48 56.10
32	109.375	51.17	134.375	4704.35	159.375	14757.07	184.375	65.24
33	1109.373	64.57	134.373	4355.12	160	11078.99	185	52.78
34	110.625	66.30	135.625	4111.50	160.625	8472.27	185.625	54.70
35	111.25	51.82	136.25	3881.50	161.25	6878.60	186.25	56.10
36	111.875	67.53	136.875	3767.04	161.875	5821.03	186.875	56.23
37	112.5	55.34	137.5	3672.82	162.5	5058.25	187.5	59.50
38	113.125	52.24	138.125	3597.49	163.125	4528.98	188.125	52.54
39	113.75	54.08	138.75	3483.37	163.75	4178.30	188.75	55.14
40	114.375	56.23	139.375	3419.79	164.375	3903.91	189.375	56.69

COARSE TUNE Pulse; Fundamental Frequency = 418MHz

		Laural		Laural		Laural		Laural
	-	Level	•	Level	•	Level		Level
	mSec	uV/m	mSec	uV/m	mSec	uV/m	mSec	uV/m
1	90	81.56	115	74.22	140	74.56	165	18728.37
2	90.625	85.70	115.625	73.03	140.625	75.77	165.625	18578.04
3	91.25	78.98	116.25	73.37	141.25	73.96	166.25	18281.00
4	91.875	73.20	116.875	73.96	141.875	76.38	166.875	18344.25
5	92.5	73.79	117.5	80.91	142.5	68.79	167.5	18344.25
6	93.125	73.37	118.125	78.98	143.125	70.63	168.125	18197.01
7	93.75	76.82	118.75	72.61	143.75	70.47	168.75	18050.95
8	94.375	79.43	119.375	90.36	144.375	73.62	169.375	18050.95
9	95	68.55	120	76.65	145	74.99	170	18050.95
10	95.625	85.51	120.625	94.84	145.625	83.08	170.625	17947.34
11	96.25	82.04	121.25	74.56	146.25	73.62	171.25	17988.71
12	96.875	75.77	121.875	74.82	146.875	78.61	171.875	17844.32
13	97.5	73.62	122.5	85.90	147.5	70.23	172.5	17844.32
14	98.125	87.30	123.125	87.80	148.125	78.61	173.125	17701.09
15	98.75	70.63	123.75	25644.84	148.75	67.84	173.75	17803.28
16	99.375	85.21	124.375	33458.00	149.375	70.47	174.375	17619.76
17	100	77.00	125	32471.32	150	76.38	175	17762.33
18	100.625	79.89	125.625	23200.64	150.625	77.45	175.625	17579.24
19	101.25	85.21	126.25	18642.32	151.25	70.06	176.25	17701.09
20	101.875	83.08	126.875	17159.32	151.875	79.43	176.875	89.23
21	102.5	76.03	127.5	16500.61	152.5	16538.65	177.5	76.03
22	103.125	93.86	128.125	16199.44	153.125	18134.27	178.125	76.38
23	103.75	77.00	128.75	15757.96	153.75	20653.80	178.75	77.00
24	104.375	75.77	129.375	15685.56	154.375	24974.68	179.375	73.03
25 26	105	82.41	130	15434.76	155	30269.13	180	80.45
20 27	105.625 106.25	79.89 76.65	130.625 131.25	15346.17 15187.98	155.625 156.25	33113.11 33573.76	180.625 181.25	85.51 79.43
28	106.875	88.31	131.875	15100.80	156.875	33381.05	181.875	76.21
29	100.075	78.34	132.5	14979.59	157.5	31695.67	182.5	72.78
30	107.5	80.91	133.125	14979.59	158.125	29241.52	183.125	76.21
31	108.75	79.43	133.75	14859.36	158.75	26915.35	183.75	82.04
32	109.375	85.70	134.375	14825.18	159.375	25089.96	184.375	82.22
33	110	78.61	135	14774.06	160	23334.58	185	83.08
34	110.625	79.25	135.625	14706.18	160.625	22233.10	185.625	78.34
35	111.25	82.89	136.25	14655.48	161.25	21232.44	186.25	76.03
36	111.875	77.98	136.875	14571.36	161.875	20606.30	186.875	85.90
37	112.5	78.16	137.5	85.02	162.5	19838.10	187.5	77.00
38	113.125	74.99	138.125	77.98	163.125	19588.45	188.125	81.38
39	113.75	74.82	138.75	73.20	163.75	19142.56	188.75	86.20
40	114.375	87.30	139.375	74.39	164.375	19032.68	189.375	76.21

FINE TUNE Pulses; Fundamental Frequency = 288MHz

		Level		Level		Level		Level
	mSec	uV/m	mSec	uV/m	mSec	uV/m	mSec	uV/m
1	90	55.14	115	50.82	140	49.83	165	52.97
2	90.625	50.52	115.625	53.83	140.625	51.82	165.625	57.88
3	91.25	51.29	116.25	51.05	141.25	48.53	166.25	57.41
4	91.875	55.40	116.875	3728.21	141.875	60.46	166.875	49.32
5	92.5	51.29	117.5	63.10	142.5	72.03	167.5	55.27
6	93.125	53.83	118.125	47.75	143.125	54.08	168.125	63.46
7	93.75	52.24	118.75	52.36	143.75	51.70	168.75	53.09
8	94.375	52.66	119.375	54.08	144.375	49.03	169.375	49.32
9	95	1815.52	120	52.24	145	51.58	170	53.21
10	95.625	54.39	120.625	60.12	145.625	50.23	170.625	56.75
11	96.25	50.23	121.25	47.42	146.25	50.52	171.25	6982.32
12	96.875	56.17	121.875	56.62	146.875	53.64	171.875	62.95
13	97.5	49.03	122.5	52.97	147.5	52.24	172.5	51.23
14	98.125	50.82	123.125	52.36	148.125	51.94	173.125	51.94
15	98.75	56.17	123.75	45.81	148.75	56.30	173.75	58.28
16	99.375	55.59	124.375	77.27	149.375	16462.66	174.375	49.32
17	100	54.70	125	52.97	150	376.27	175	51.82
18	100.625	49.72	125.625	54.83	150.625	51.82	175.625	53.95
19	101.25	57.54	126.25	50.00	151.25	56.04	176.25	51.23
20	101.875	50.93	126.875	56.30	151.875	53.52	176.875	52.66
21	102.5	53.09	127.5	5936.08	152.5	54.51	177.5	56.75
22	103.125	51.58	128.125	5902.01	153.125	59.50	178.125	59.50
23	103.75	55.72	128.75	58.48	153.75	50.41	178.75	57.21
24	104.375	50.41	129.375	52.54	154.375	48.25	179.375	54.51
25	105	59.98	130	55.40	155	51.29	180	47.75
26	105.625	2500.35	130.625	56.17	155.625	50.41	180.625	60.60
27	106.25	2474.57	131.25	54.26	156.25	50.52	181.25	52.12
28	106.875	49.72	131.875	59.09	156.875	55.59	181.875	4864.07
29	107.5	52.12	132.5	52.97	157.5	49.83	182.5	4477.13
30	108.125	53.95	133.125	51.23	158.125	51.29	183.125	56.30
31	108.75	54.70	133.75	51.94	158.75	59.50	183.75	56.30
32	109.375	55.14	134.375	50.64	159.375	48.64	184.375	52.36
33	110	46.94	135	56.49	160	50.41	185	54.26
34 25	110.625 111.25	52.66	135.625	54.83	160.625	12720.38	185.625	56.17
35		56.62	136.25	56.75	161.25 161.875	57.41	186.25	52.66
36 37	111.875 112.5	49.60 53.95	136.875 137.5	56.62	161.875	58.28	186.875	51.23 49.43
37 38	112.5	56.17	137.5	58.61 50.64	163.125	51.94 47.70	187.5 188.125	49.43 57.08
39	113.725	48.92	138.75	10678.25	163.725	48.64	188.75	48.92
39 40	114.375		139.375	50.64	164.375		189.375	
40	114.373	00.71	139.375	50.04	104.375	51.29	109.375	49.20

FCC 15.231 for CB2HONDAHL3 Tested April 27, 2000

FINE TUNE Pulses; Fundamental Frequency = 310MHz

	FIN	I I UNE	Pulses; Fundamental Frequei	ncy = 510MHZ	
		امرما	Level	Loval	اميرما
		Level	Level	Level	Level
	mSec	uV/m	mSec uV/m	mSec uV/m	mSec uV/m
		50.04			
1	90	53.64	115 53.95	140 14521.12	165 57.94
2 3	90.625 91.25	58.41 55.21	115.625 56.10 116.25 50.64	140.625 52.24 141.25 58.55	165.625 54.51 166.25 52.36
3 4	91.25	59.63	116.875 54.70	141.25 58.55 141.875 58.68	166.875 51.05
4 5	91.875	49.95	117.5 7473.09	141.875 58.68	167.5 61.59
6	92.5 93.125	49.95 63.46	118.125 7473.09	143.125 55.53	168.125 57.74
7	93.75	54.39	118.75 54.70	143.75 62.73	168.75 51.70
8	94.375	59.84	119.375 60.60	144.375 54.95	169.375 58.08
9	94.373 95	56.23	120 55.53	145 56.36	170 56.10
10	95.625	2552.70	120.625 58.21	145.625 57.94	170.625 54.95
11	96.25	4154.32	121.25 57.15	146.25 66.83	171.25 56.23
12	96.875	52.36	121.875 62.59	146.875 61.31	171.875 61.94
13	97.5	54.08	122.5 59.63	147.5 60.46	172.5 54.70
14	98.125	70.71	123.125 53.83	148.125 64.86	173.125 9761.13
15	98.75	59.63	123.75 53.83	148.75 53.39	173.75 51.17
16	99.375	54.39	124.375 59.16	149.375 57.02	174.375 53.64
17	100	56.69	125 58.55	150 50.76	175 61.31
18	100.625	62.59	125.625 58.41	150.625 16710.91	175.625 52.36
19	101.25	55.53	126.25 53.39	151.25 59.98	176.25 65.92
20	101.875	56.82	126.875 60.33	151.875 54.08	176.875 55.65
21	102.5	56.10	127.5 66.68	152.5 58.21	177.5 59.84
22	103.125	62.45	128.125 64.05	153.125 54.83	178.125 51.17
23	103.75	55.14	128.75 10556.02	153.75 59.36	178.75 55.65
24	104.375	65.24	129.375 53.21	154.375 58.41	179.375 61.45
25	105	55.34	130 62.59	155 57.28	180 56.82
26	105.625	63.24	130.625 58.08	155.625 58.55	180.625 54.51
27	106.25	54.70	131.25 59.36	156.25 54.08	181.25 53.64
28	106.875	5376.50	131.875 60.46	156.875 56.56	181.875 56.82
29	107.5	52.24	132.5 61.45	157.5 63.24	182.5 59.36
30	108.125	59.02	133.125 67.92	158.125 56.82	183.125 54.70
31	108.75	53.83	133.75 55.21	158.75 49.95	183.75 59.02
32	109.375	65.24	134.375 49.83	159.375 49.43	184.375 7413.10
33	110	54.08	135 57.15	160 57.48	185 58.08
34	110.625	49.20	135.625 62.95	160.625 61.80	185.625 56.82
35	111.25	56.23	136.25 57.74	161.25 55.34	186.25 52.66
36	111.875	62.09	136.875 59.98	161.875 14109.12	186.875 59.36
37	112.5	55.21	137.5 54.83	162.5 64.19	187.5 65.24
38 39	113.125	62.45	138.125 56.23	163.125 52.12	188.125 57.74
	113.75	51.70 58.08	138.75 61.94 139.375 14571.36	163.75 56.10	188.75 56.10
40	114.375	56.06	139.375 14571.30	164.375 62.30	189.375 55.53
			I	I	

FINE TUNE Pulses; Fundamental Frequency = 418MHz

		E IUNE PI	ulses; Funda	mental Fre	equen	cy = 41c	SMITZ		
		Level		Level			Level		Level
	mSec	uV/m	mSec	uV/m		mSec	uV/m	mSec	uV/m
1	100	82.70	125	88.00		150	68.79	175	73.62
2	100.625	70.47	125.625	73.62		150.625	80.26	175.625	80.45
3	101.25	73.62	126.25	84.82		151.25	76.21	176.25	80.08
4	101.875	75.42	126.875	76.82		151.875	84.33	176.875	68.55
5	102.5	32809.53	127.5	70.06		152.5	100.46	177.5	73.79
6 7	103.125 103.75	89.02 71.20	128.125 128.75	77.62 31441.26		153.125 153.75	88.31 93.65	178.125 178.75	77.62 76.38
8	103.75	69.34	128.75	31368.95		154.375	93.05 77.00	178.75	81.56
9	104.373	69.66	130	82.89		154.575	73.03	180	77.27
10	105.625	68.55	130.625	80.26		155.625	26637.90	180.625	72.61
11	106.25	81.56	131.25	79.25		156.25	80.91	181.25	82.70
12	106.875	70.79	131.875	72.44		156.875	78.34	181.875	73.79
13	107.5	78.80	132.5	85.21		157.5	81.38	182.5	74.99
14	108.125	81.75	133.125	92.58		158.125	82.41	183.125	22961.49
15	108.75	84.33	133.75	95.17		158.75	87.10	183.75	80.45
16	109.375	77.00	134.375	87.80		159.375	81.56	184.375	88.00
17	110	71.94	135	87.80		160	71.94	185	99.43
18	110.625	83.08	135.625	81.56		160.625	102.33	185.625	75.77
19	111.25	76.65	136.25	75.60		161.25	86.40	186.25	71.94
20	111.875	75.42	136.875	81.56		161.875	83.56	186.875	69.90
21	112.5	78.61	137.5	84.14		162.5	82.04	187.5	69.90
22	113.125	79.62	138.125	90.36		163.125	72.44	188.125	78.80
23 24	113.75 114.375	73.62 82.41	138.75 139.375	73.62 74.56		163.75 164.375	74.99 93.11	188.75 189.375	87.80 77.00
24 25	114.375	98.40	140	93.65		165	76.65	189.375	78.80
26	115.625	32734.07	140.625	83.08		165.625	73.79	190.625	74.22
27	116.25	79.25	141.25	68.94		166.25	76.03	191.25	73.96
28	116.875	80.45	141.875	28086.65		166.875	77.62	191.875	79.62
29	117.5	73.37	142.5	29478.13		167.5	70.06	192.5	75.60
30	118.125	80.26	143.125	83.56		168.125	79.25	193.125	80.26
31	118.75	81.38	143.75	77.00		168.75	69.90	193.75	89.23
32	119.375	79.62	144.375	78.61		169.375	24974.68	194.375	76.21
33	120	74.39	145	85.21		170	80.91	195	89.02
34	120.625	75.16	145.625	71.53		170.625	85.02	195.625	82.41
35	121.25	78.61	146.25	79.62		171.25	98.06	196.25	77.98
36	121.875	87.30	146.875	77.98		171.875	76.21	196.875	21305.91
37 38	122.5 123.125	73.03 71.94	147.5 148.125	73.37 69.34		172.5 173.125	75.60 75.77	197.5 198.125	77.98 78.61
39	123.125	75.60	148.75	79.62		173.725	77.45	198.75	71.20
40	124.375	78.80	149.375	76.65		174.375	85.70	199.375	74.82
	121.010	10.00	110.010	10.00		11 1.07 0	00.10	100.010	1 1.02