

TEST REPORT N°: ECL-08N0H2140ETHFB

TEST REPORT

To:	SUMMER INFANT, INC	To:	-
Attn:	Anthony Paolo	Attn:	-
Address:	1275 Park East Drive, Woonsocket, RI 02895, United States	Address:	-
Fax:	--	Fax:	-
E-mail:	--	E-mail:	-

Factory name:	--	Offer:	ECL-08NO21-01ETHHFP-A4
Location:	--	Sample No:	--



Start date:	January 9, 2009
Finish date:	January 20, 2009
Test Requested:	FCC Part 15 Certification Procedure
Test Method:	ANSI C63.4 – 2003 / DA-00-705

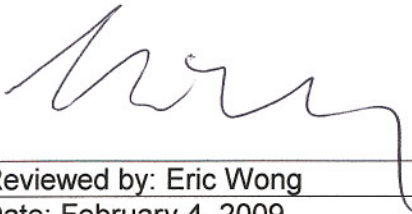
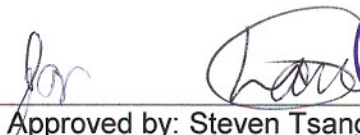

**Secure Sleep Monitor,
MODEL: 02710**

FCC ID: PZK-02710T

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:

	 
Reviewed by: Eric Wong Date: February 4, 2009	Approved by: Steven Tsang Date: February 4, 2009



TEST REPORT N^o: ECL-08N0H2140ETHFB

Location of the test site

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

List of measuring equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
M0008	EMI TEST RECEIVER	R&S	ESCI	100379	13-APR-2009
M0012	HF LOOP ANTENNA	SCHAFFNER	HLA 6120	21728	14-NOV-2009
M0011	BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	31-JAN-2009
M0027	OPEN AREA TEST SITE	BVCPS	N/A	N/A	05-JULY-2009
M0028	ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	09-JULY-2009
M0036	HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	29-JULY-2009
M0037	PREAMPLIFIER	SCHWARZBECK	BBV9718	9718-152	22-JULY-2009
M0050	COAXIAL CABLE 1-18GHz	SUHNER	N/A	N/A	23-JULY-2009

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
M0007	EMI TEST RECEIVER	R&S	ESCS30	830986/030	18-SEP-2009
M0012	LISN	R&S	ESH3-Z5	100116	15-FEB-2009
M0011	PULSE LIMITER	R&S	ESH3 Z2	100088	17-APR-2009

Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

TEST REPORT N°: ECL-08N0H2140ETHFB

Equipment Under Test [EUT]

Description of Sample:

Model Name: Secure Sleep Monitor
Model Number: 02710
Rating: 120Vac---6Vdc

Description of AC/DC Adaptor

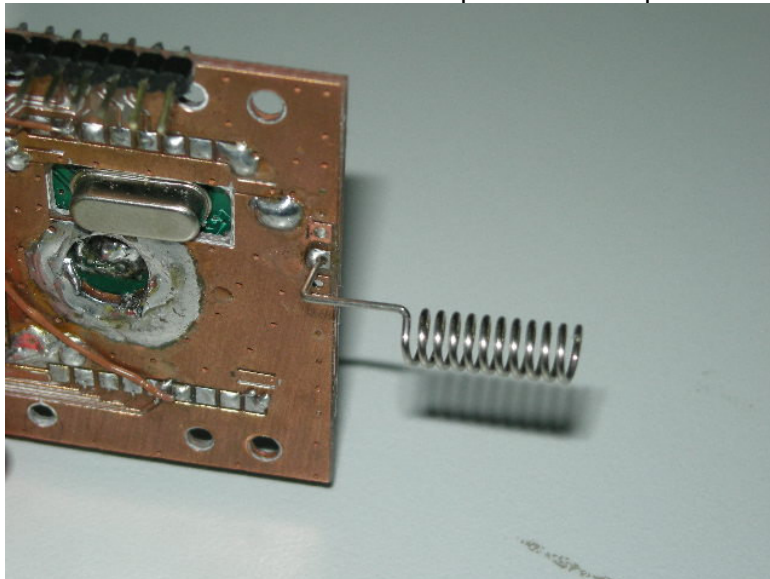
Model: KU1B-06-0300D
Input: 120VAC 60Hz 6VA
Output: 6VDC 300mA

Description of EUT Operation:

The Equipment Under Test (EUT) is a **Summer Infant, Inc** of Baby monitor. The transmitter is belong to Frequency Hopping System and 1 buttons for ON/OFF and operating at 904.00 to 926.00MHz with 50 hopping channel. The EUT continues to transmit while switch On.

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna and 20mm long spring antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.



TEST REPORT N^o: ECL-08N0H2140ETHFB

Test Results

Emission

Conducted Emissions (150kHz to 30MHz)

Test Requirement: FCC Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Level: Class B

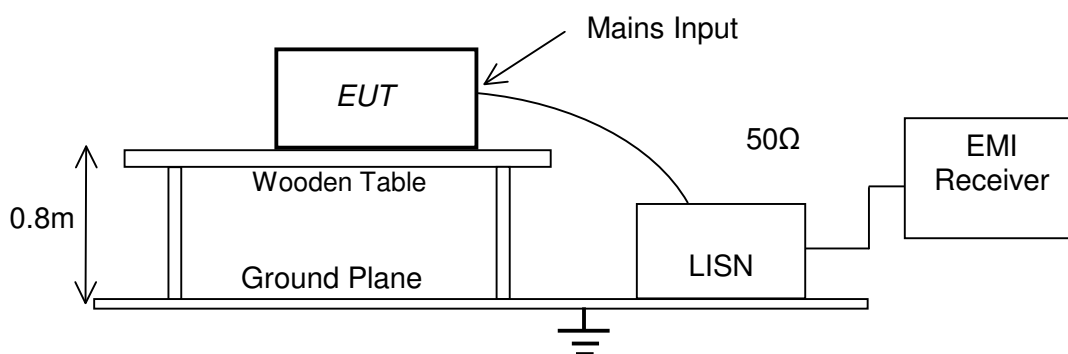
Test Date(s): 2008-12-01

Mode of Operation: Normal Operation

Test Method:

Initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



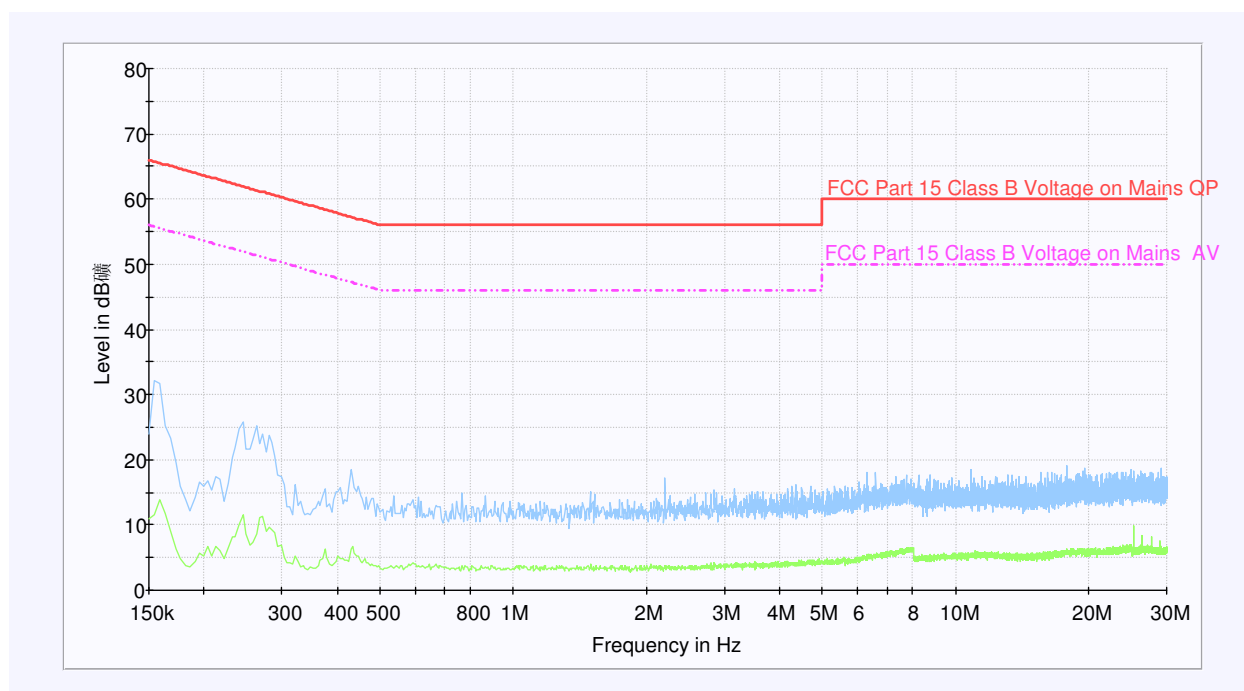
TEST REPORT N^o: ECL-08N0H2140ETHFB

Measurement Data

Test Result of (On mode): **PASS**

Results and limit lines for Conducted Emission: Live

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram and table.



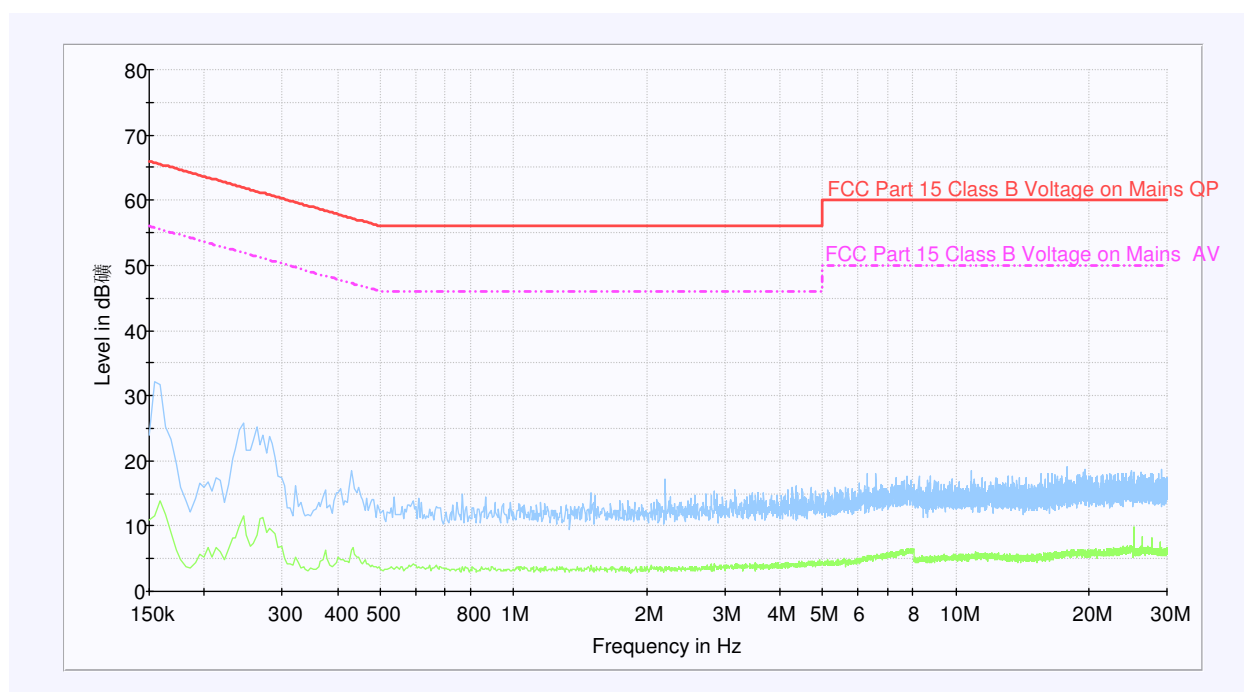
Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	PE	Line	Margin (dB)	Limit (dBµV)
0.519000	12.6	9.000	GND	L1	43.4	56.0
0.609000	13.1	9.000	GND	L1	42.9	56.0
0.636000	13.3	9.000	GND	L1	42.8	56.0
0.672000	14.0	9.000	GND	L1	42.0	56.0
0.708000	12.6	9.000	GND	L1	43.4	56.0
0.735000	13.7	9.000	GND	L1	42.3	56.0
0.834000	13.0	9.000	GND	L1	43.0	56.0
0.933000	13.5	9.000	GND	L1	42.5	56.0
1.068000	13.2	9.000	GND	L1	42.8	56.0
1.081500	13.2	9.000	GND	L1	42.8	56.0
1.230000	12.8	9.000	GND	L1	43.2	56.0
1.414500	11.6	9.000	GND	L1	44.4	56.0
1.459500	11.2	9.000	GND	L1	44.8	56.0

TEST REPORT N°: ECL-08N0H2140ETHFB
Measurement Data

Test Result of (On mode): PASS

Results and limit lines for Conducted Emission: Neutral

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	PE	Line	Margin (dB)	Limit (dBµV)
0.451500	12.6	9.000	GND	N	44.2	56.8
0.613500	12.8	9.000	GND	N	43.2	56.0
0.802500	11.6	9.000	GND	N	44.4	56.0
0.856500	11.1	9.000	GND	N	44.9	56.0
0.933000	11.2	9.000	GND	N	44.8	56.0
1.009500	11.0	9.000	GND	N	45.0	56.0
1.063500	11.2	9.000	GND	N	44.8	56.0
1.077000	10.4	9.000	GND	N	45.6	56.0
1.090500	10.9	9.000	GND	N	45.1	56.0
1.117500	10.3	9.000	GND	N	45.7	56.0
1.135500	10.6	9.000	GND	N	45.4	56.0
1.459500	9.4	9.000	GND	N	46.6	56.0

TEST REPORT N^o: ECL-08N0H2140ETHFB Maximum Peak Conducted Output Power

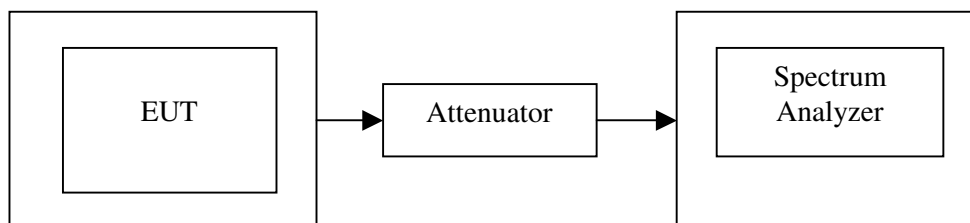
Test Requirement: FCC Part 15 Section 15.247(b) (2)
Test Method: DA-00-705
Test Date(s): 2008-01-14
Mode of Operation: Transmission continuously with test mode

Test Procedure:

The Maximum Peak Conducted Output Power measurements are investigated and taken pursuant to the procedures of DA-00-705

The Transmitter output was connected to the Spectrum analyzer through an attenuator. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 1MHz RBW and 3MHz VBW.

Test Setup:





TEST REPORT N°: ECL-08N0H2140ETHFB

Limits for Maximum Peak Conducted Output Power [FCC 47CFR 15.247(b)(2)]:

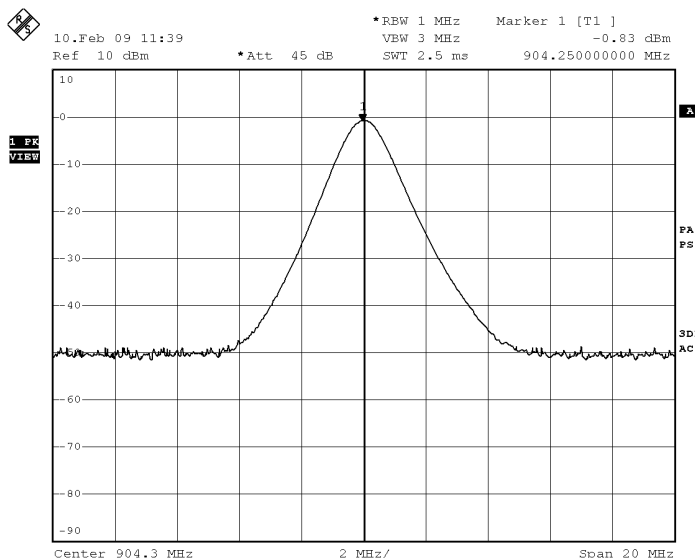
Frequency Range of Fundamental [MHz]	Maximum Peak Conducted Output Power (Peak) [Watts]	Maximum Peak Conducted Output Power (Peak) [dBm]
902-928	1	30

Measurement Data

Test Result of (Transmission Continuously with test mode): PASS

Detection mode: Peak

Channel	Frequency (MHz)	Attenuator (dB)	Peak Output Power (dBm)	Limit of Peak Power (dBm)	Margin (dB)
Lowest Hopping Channel	904.250	6	-0.83	30.0	-29.17



Date: 10.FEB.2009 11:39:56

Note: Peak Output Power includes Attenuator and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 3MHz

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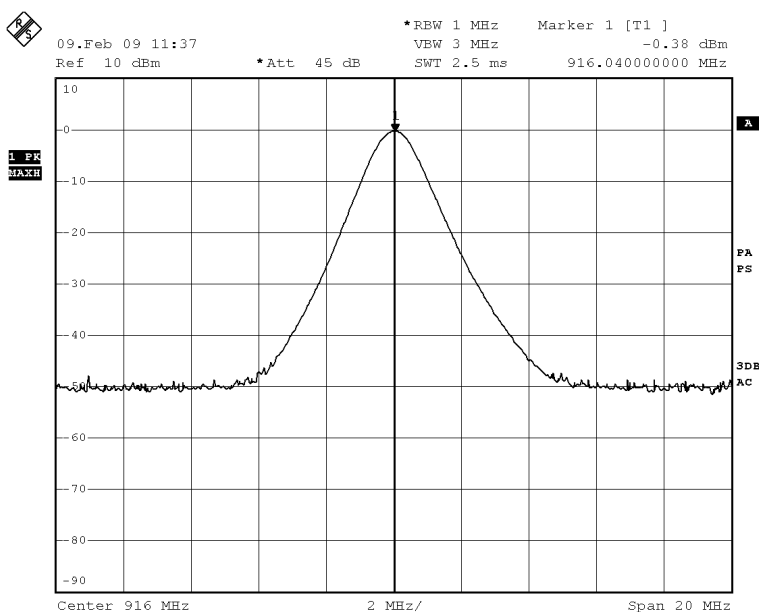
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TEST REPORT N°: ECL-08N0H2140ETHFB
Measurement Data

Test Result of (Transmission Continuously): PASS

Detection mode: Peak

Channel	Frequency (MHz)	Attenuator (dB)	Peak Output Power (dBm)	Limit of Peak Power (dBm)	Margin (dB)
Middle Hopping Channel	916.040	6	-0.38	30.0	-29.62



Date: 9.FEB.2009 11:37:29

Note: Peak Output Power includes Attenuator and Cable Loss.

Receiver setting: RBW = 1MHz
 VBW = 3MHz

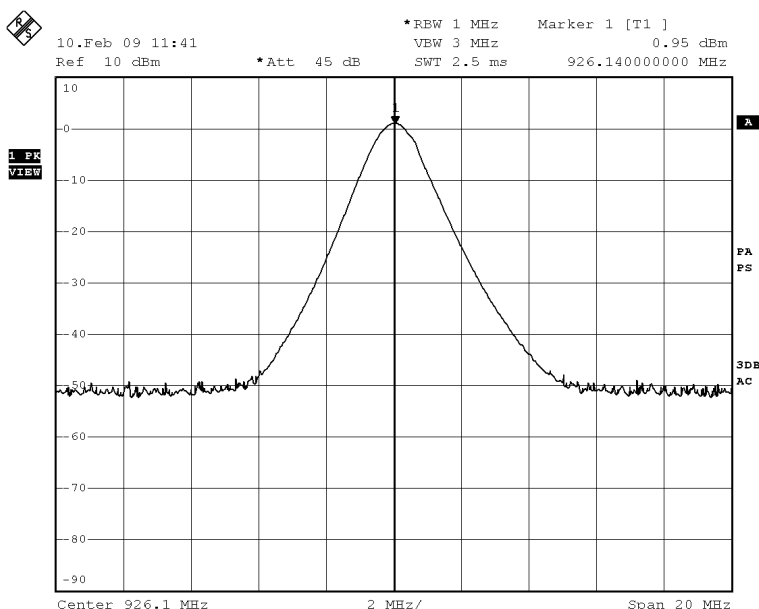
TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data

Test Result of (Transmission Continuously): PASS

Detection mode: Peak

Channel	Frequency (MHz)	Attenuator (dB)	Peak Output Power (dBm)	Limit of Peak Power (dBm)	Margin (dB)
Highest Hopping Channel	926.140	6	-0.95	30.0	-29.05



Date: 10.FEB.2009 11:41:35

Note: Peak Output Power includes Attenuator and Cable Loss.

Receiver setting: RBW = 1MHz
VBW = 3MHz



TEST REPORT N°: ECL-08N0H2140ETHFB

Radiated Emissions (30MHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209
 Test Method: ANSI C63.4
 Test Date(s): 2008-01-14
 Mode of Operation: Transmission continuously with test mode

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [$\mu\text{V/m}$]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500

Measurement Data

Test Result of (Transmission continuously with test mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dB $\mu\text{V/m}$)	Limit at 3m (dB $\mu\text{V/m}$)	Margin (dB)
Emissions detected are more than 20dB below the limit line(s).				

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
 VBW = 120KHz



TEST REPORT N^o: ECL-08N0H2140ETHFB

Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.209
Test Method: ANSI C63.4
Test Date(s): 2008-12-11
Mode of Operation: Transmission continuously with test mode

Measurement Data : Lowest Hopping Channel (904.38MHz)

Test Result of (Transmission continuously with test mode): **PASS**

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
1808.48	V	29.2	43.3	54.0	-10.7
*2712.72	V	32.8	43.9	54.0	-10.1
*3616.96	V	34.8	48.6	54.0	-5.4
4521.20	V	37.3	46.5	54.0	-7.5
*5425.44	V	39.2	45.9	54.0	-8.1
6329.68	V	41.6	49.9	54.0	-4.1
7233.92	V	41.6	49.2	54.0	-4.8
*8138.16	V	46.4	52.1	54.0	-1.9
*9042.40	V	47.4	51.3	54.0	-2.7

*Restricted band of Section15.205, Section15.209 limits is applied

Note: Field Strength includes Antenna Factor, Cable Loss and Preamplifier gain (0.5-18GHz)

Receiver setting (1GHz to 18GHz): RBW = 1MHz
VBW = 1MHz



TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data: Middle Hopping Channel (915.50MHz)

Test Result of (Transmission continuously with test mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1830.81	V	29.5	38.4	54.0	-15.6
*2746.22	V	33.0	41.8	54.0	-12.2
*3661.62	V	34.9	43.8	54.0	-10.2
4577.03	V	37.6	49.9	54.0	-4.1
*5492.43	V	39.4	46.7	54.0	-7.3
6407.86	V	42.2	50.8	54.0	-3.2
7323.24	V	45.2	52.2	54.0	-1.8
*8238.65	V	46.2	52.7	54.0	-1.3
*9154.05	V	48.0	51.9	54.0	-2.1

*Restricted band of Section15.205, Section15.209 limits is applied

Note: Field Strength includes Antenna Factor, Cable Loss and Pre-amplifier gain (0.5-18GHz)

Receiver setting (1GHz to 18GHz): RBW = 1MHz
VBW = 1MHz



TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data: Highest Hopping Channel (926.63MHz)

Test Result of (Transmission continuously with test mode): PASS

Detection mode: Peak

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
1853.03	V	29.5	41.2	54.0	-12.8
*2779.54	V	33.2	43.2	54.0	-10.8
*3706.06	V	35.0	47.1	54.0	-6.9
4632.57	V	37.8	37.8	54.0	-16.2
*5559.09	V	39.4	48.9	54.0	-5.1
6485.60	V	42.8	51.7	54.0	-2.3
7412.12	V	45.5	52.3	54.0	-1.7
*8338.64	V	46.1	51.7	54.0	-2.3
*9265.15	V	48.5	53.0	54.0	-1.0

*Restricted band of Section15.205, Section15.209 limits is applied

Note: Field Strength includes Antenna Factor, Cable Loss and Pre-amplifier gain (0.5-18GHz)

Receiver setting (1GHz to 18GHz): RBW = 1MHz
VBW = 1MHz



TEST REPORT N°: ECL-08N0H2140ETHFB

20dB Bandwidth Measurement of Fundamental Emission

Test Requirement: FCC 47 CFR 15.247 (a)(1)(i)
 Test Method: ANSI C63.4:2003 (Section 13.1.7)
 Test Date: 2008-01-12
 Mode of Operation: Transmission continuously with test mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for 20dB Bandwidth of Fundamental Emission:

The 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

The average time of occupancy = 10ms x 19time

Frequency [MHz]	20dB Bandwidth [KHz]	Hopping Channel	Average Occupancy Time [Second]
904.384	328.0	50	0.19
915.506	330.0	50	0.19
926.634	328.0	50	0.19

Frequency [MHz]	Channel Separation [KHz]
904.384	330.0
915.506	330.0
926.634	338.0



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TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data: Lowest Hopping Channel (904.348MHz)

Test Result of 20dB Bandwidth of Fundamental Emission: PASS

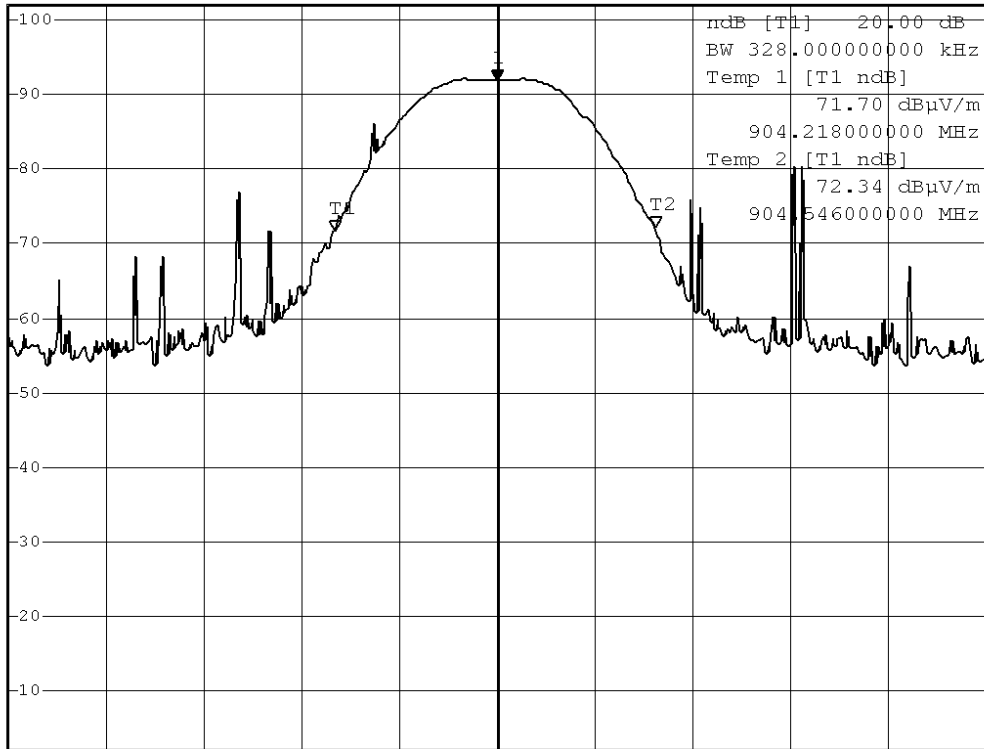


12.Jan 09 13:24
Ref 102 dBµV/m

*Att 30 dB

*RBW 100 kHz Marker 1 [T1]
VBW 300 kHz 91.91 dBµV/m
SWT 2.5 ms 904.384000000 MHz

1 PK
VIEW



Center 904.384 MHz 100 kHz/ Span 1 MHz

Date: 12.JAN.2009 13:24:28

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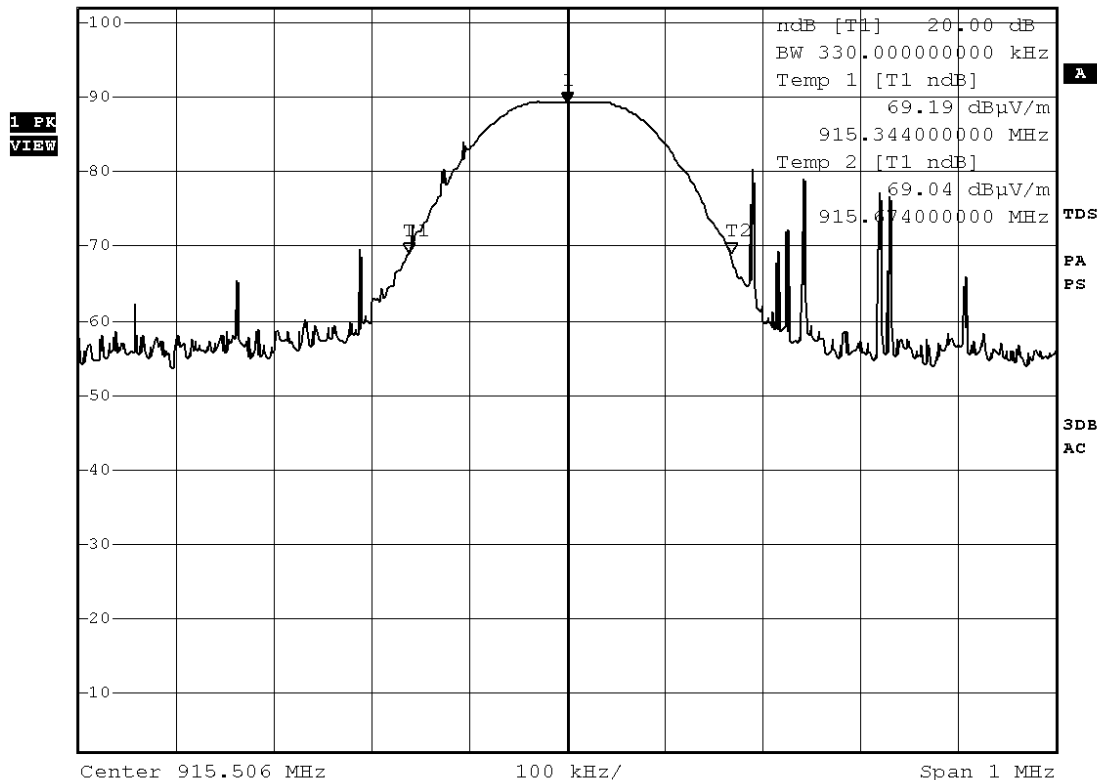
TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data: Middle Hopping Channel (915.506MHz)

Test Result of 20dB Bandwidth of Fundamental Emission: PASS



12.Jan 09 13:20 *RBW 100 kHz Marker 1 [T1]
 Ref 102 dBµV/m VBW 300 kHz 89.25 dBµV/m
 *Att 30 dB SWT 2.5 ms 915.506000000 MHz



Date: 12.JAN.2009 13:20:08

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Measurement Data: Lowest Hopping Channel (926.634MHz)

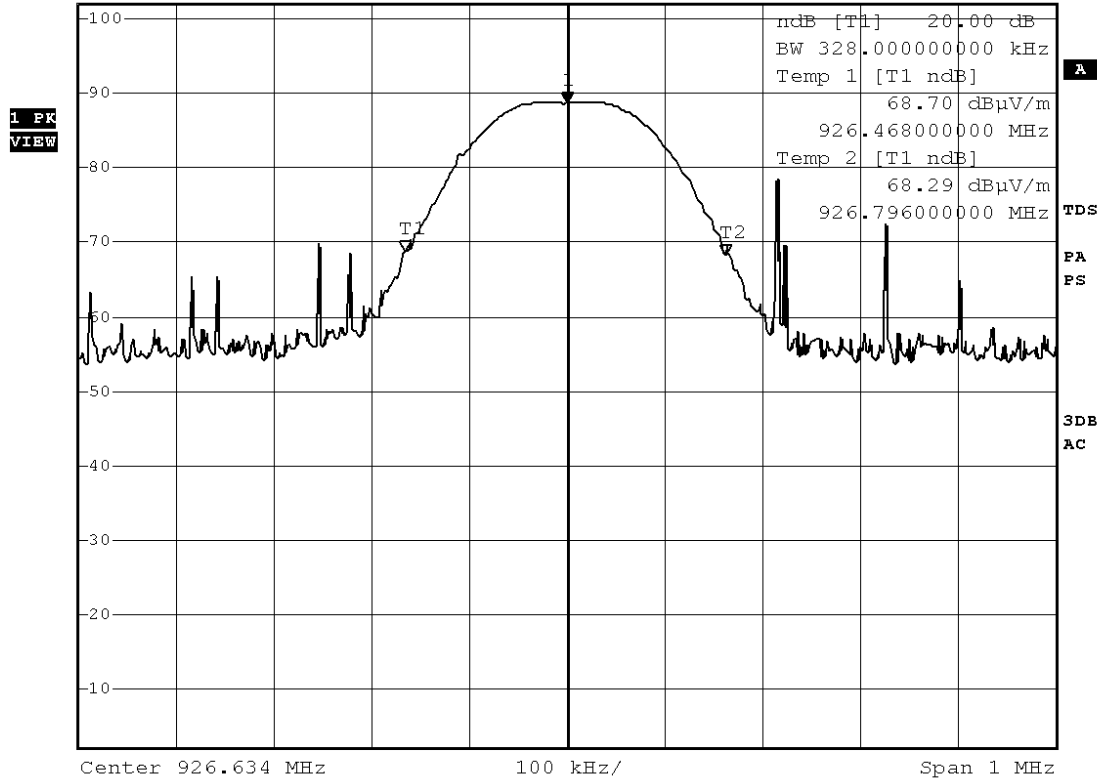
Test Result of 20dB Bandwidth of Fundamental Emission: PASS



12.Jan 09 13:22
Ref 102 dBµV/m

*Att 30 dB

*RBW 100 kHz Marker 1 [T1]
VBW 300 kHz 88.62 dBµV/m
SWT 2.5 ms 926.634000000 MHz



Date: 12.JAN.2009 13:22:39

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TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data: 50 Hopping Channel within 902-928MHz



12.Jan 09 13:29

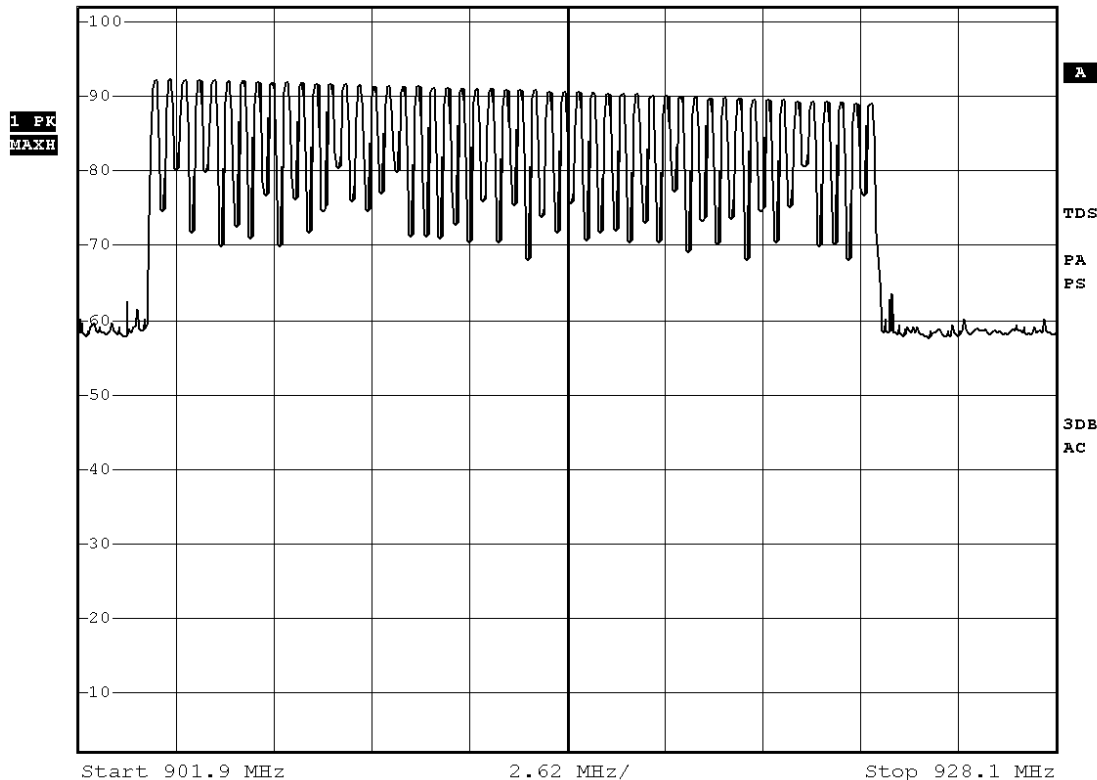
*RBW 100 kHz

VBW 300 kHz

Ref 102 dBµV/m

*Att 30 dB

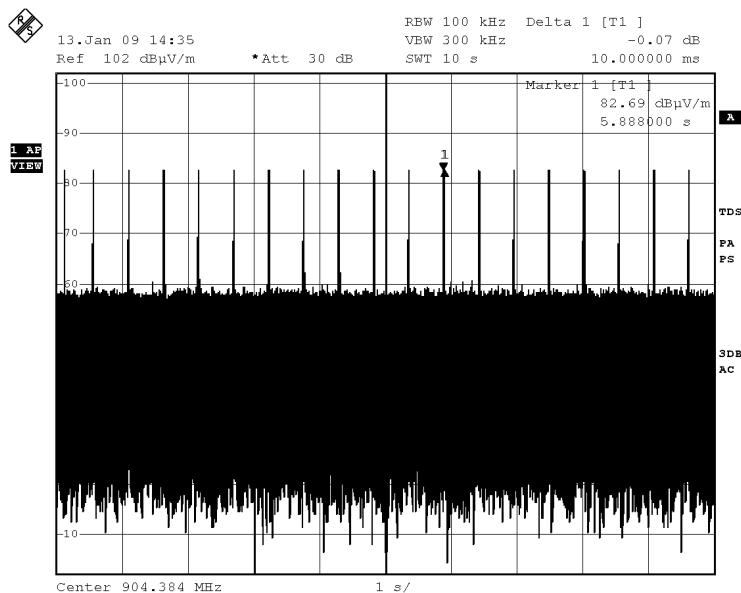
SWT 5 ms



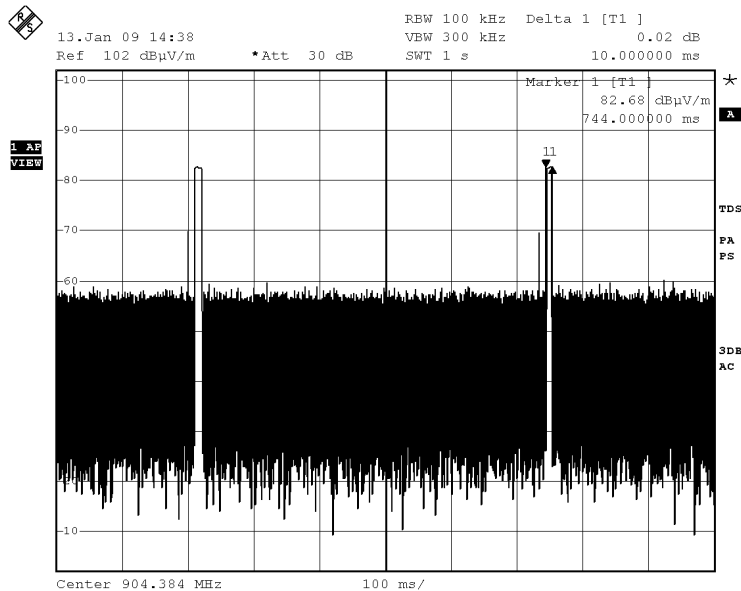
Date: 12.JAN.2009 13:29:38

TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data : Repetitions within 10 second period



Date: 13.JAN.2009 14:35:31



Date: 13.JAN.2009 14:38:33

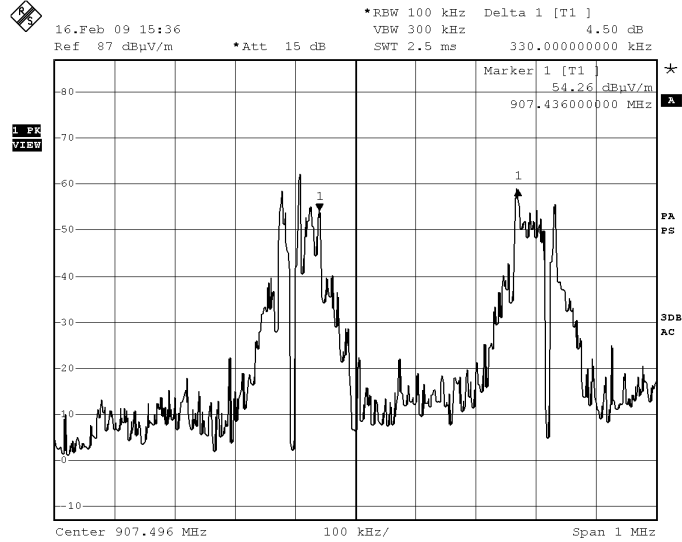


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TEST REPORT N°: ECL-08N0H2140ETHFB

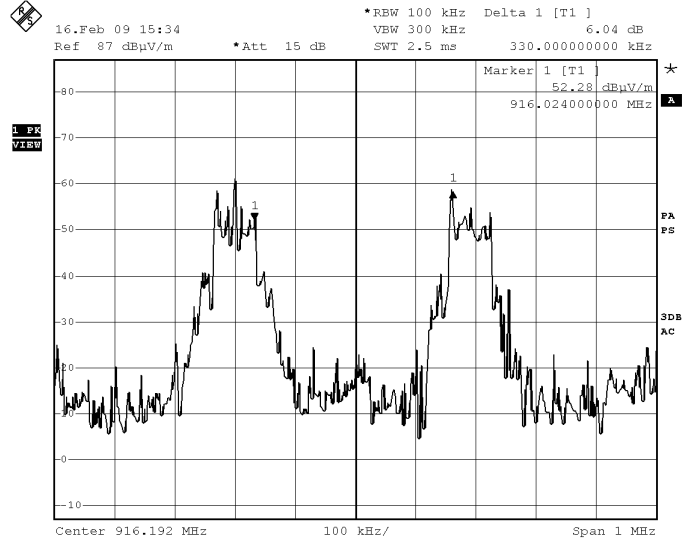
Measurement Data : Channel Separation

Lowest Channel



Date: 16.FEB.2009 15:36:49

Middle Channel



Date: 16.FEB.2009 15:34:02

BUREAU VERITAS HONG KONG LIMITED –
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 Email: bvcpes.electrical@hk.bureauveritas.com

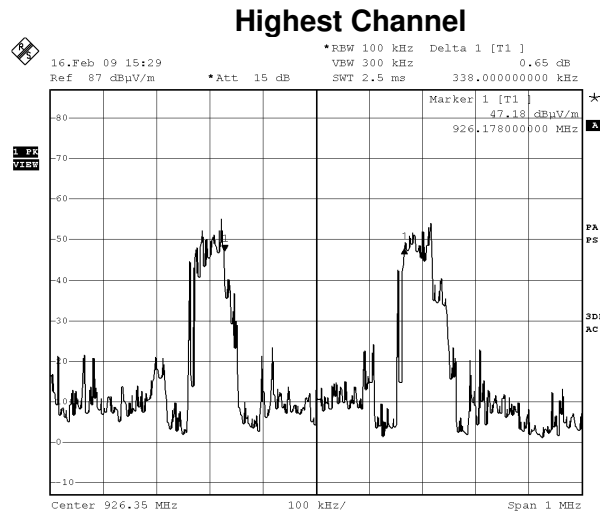
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TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement Data : Channel Separation



Date: 16.FEB.2009 15:29:44

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TEST REPORT N°: ECL-08N0H2140ETHFB

Photographs of EUT

Front View of the product



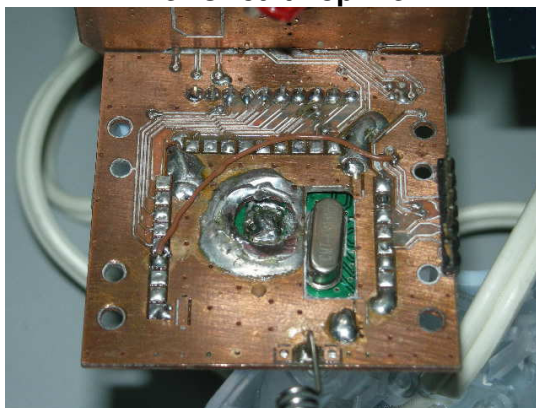
Rear View of the product



Inner Circuit Top View



Inner Circuit Top View



Inner Circuit Bottom View



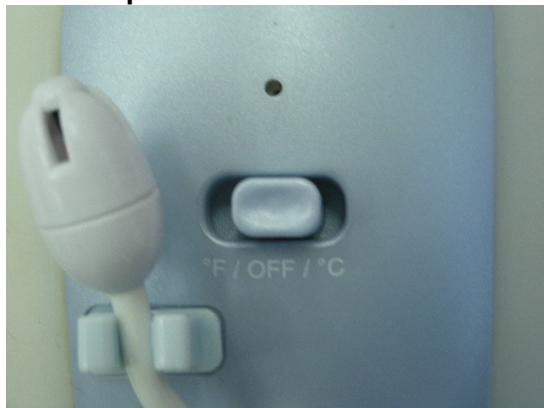
Inner Circuit Bottom View



TEST REPORT N°: ECL-08N0H2140ETHFB

Photographs of EUT

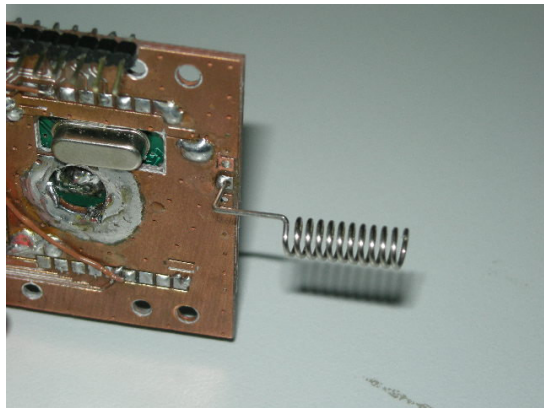
Temperature Selection Button



On/OFF Button



Antenna Part of PCB



Rear View of Internal Enclosure



Front View of Internal Enclosure



AC/DC Adaptor

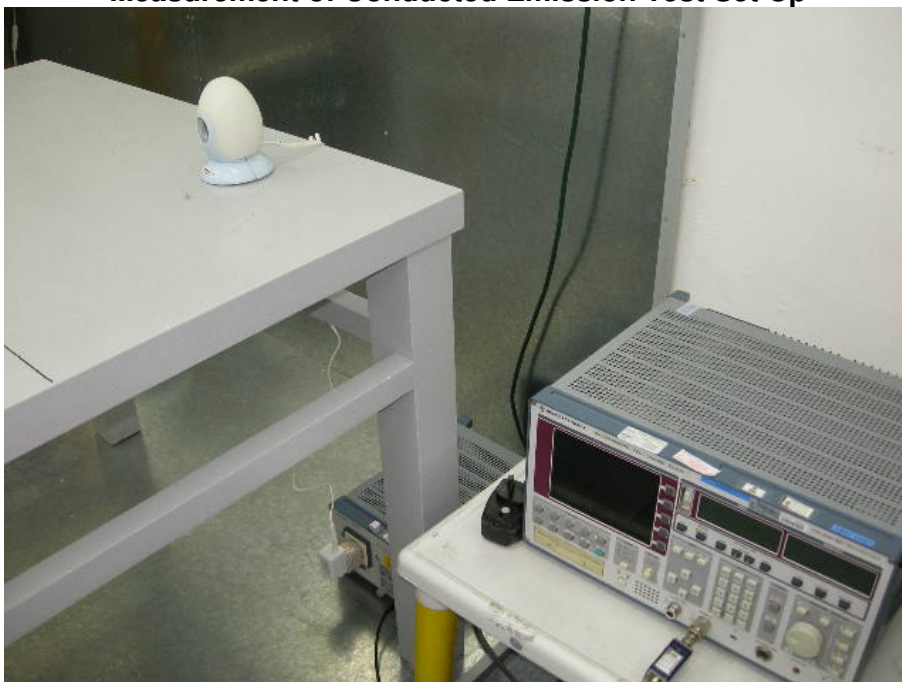


TEST REPORT N°: ECL-08N0H2140ETHFB

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



****** End of Report ******