

RF EXPOSURE REPORT

REPORT NO.: SA131104C11

MODEL NO.: OBS-ADSL_HomeStation

FCC ID: 2ABDFOBSADSL

RECEIVED: Nov. 04, 2013

TESTED: Nov. 07 ~ Nov. 15, 2013

ISSUED: Nov. 21, 2013

APPLICANT: Objetivos y Servicios de Valor Anadido

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TABLE OF CONTENTS

RELEASE CONTROL RECORD.....	3
1. CERTIFICATION.....	4
2. RF EXPOSURE	5
2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE).....	5
2.2 MPE CALCULATION FORMULA	5
2.3 CLASSIFICATION	5
2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA131104C11	Original release	Nov. 21, 2013



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1. CERTIFICATION

PRODUCT: ADSL2+ Router 11N 2T2R
MODEL NO.: OBS-ADSL_HomeStation
BRAND: Observa Telecom
APPLICANT: Objetivos y Servicios de Valor Anadido
TESTED: Nov. 07 ~ Nov. 15, 2013
TEST SAMPLE: PRODUCTION SAMPLE
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (model: OBS-ADSL_HomeStation) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: Ivy Lin, **DATE:** Nov. 21, 2013
Ivy Lin / Specialist

APPROVED BY: Ken Liu, **DATE:** Nov. 21, 2013
Ken Liu / Senior Manager

2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	25.11	3	20	0.129	1

DEVICE	MAX EIRP (W)	MAX EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
3G USB DONGLE	2.0	33.00	20	0.397	1

This product can operate with a plug-in 3G USB device which has maximum of 2W EIRP output power.

Co-located mode is as below

Wi-Fi 2.4GHz + 3G dongle = $0.129/1 + 0.397/1 = 0.526$

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