RF EXPOSURE REPORT

REPORT NO.: SA141013D01

MODEL NO.: AM30

FCC ID: QCIAM30

RECEIVED: Oct. 13, 2014

TESTED: Oct. 22 ~ Dec. 15, 2014

ISSUED: Dec. 23, 2014

APPLICANT: SMART Technologies Inc.

ADDRESS: 3636 Research Road NW Calgary, AB T2L 1Y1 CANADA

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA141013D01	Original release	Dec. 23, 2014

1. CERTIFICATION

PRODUCT:	PC Device
BRAND NAME:	SMART
MODEL NO.:	AM30
APPLICANT:	SMART Technologies Inc.
TESTED:	Oct. 22 ~ Dec. 15, 2014
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	FCC Part 2 (Section 2.1091) KDB 447498 D03 IEEE C95.1

The above equipment 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 : Annie Chang , **DATE:** Dec. 23, 2014

(Annie Chang / Supervisor)

APPROVED BY : Rex. Lai , **DATE:** Dec. 23, 2014

(Rex Lai / Assistant Manager)

2. RF EXPOSURE LIMIT

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

3. MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

4. 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**.

5. 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	17.79	2.18	20	0.0198	1.00
5180 ~ 5240	11.76	3.02	20	0.0060	1.00
5260 ~ 5320	11.64	3.02	20	0.0058	1.00
5500 ~ 5700	11.54	3.02	20	0.0057	1.00
5745 ~ 5825	12.00	3.02	20	0.0063	1.00
Bluetooth LE	1.95	2.18	20	0.0005	1.00
Bluetooth+EDR	5.67	2.18	20	0.0012	1.00

CONCULSION:

Both of the modules can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN + Bluetooth LE = 0.0198/1 + 0.0005/1 = 0.0203

2. WLAN + Bluetooth+EDR = 0.0198/1 + 0.0012/1 = 0.0210

Therefore, the maximum calculation of this situation is 0.0210, which is less than the "1" limit.

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