

Compliance Certification Services Inc.

Date of Issue :July 8, 2015

Report No: C150630R02-1-RPV

FCC ID: 2AEQWCH18HHC003

RADIO FREQUENCY EXPOSURE

EUT Specification

| EUT | CH18 | |
|----------------------------|--|--|
| Frequency band (Operating) | | |
| Device category | ✓ Portable (<20cm separation)✓ Mobile (>20cm separation)✓ Others | |
| Exposure classification | Occupational/Controlled exposure (S = 5mW/cm²) General Population/Uncontrolled exposure (S=1mW/cm²) | |
| Antenna diversity | Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity | |
| Max. output power | 2.400-2.460GHz: 0.24mW | |
| Antenna gain (Max) | 0 dBi | |
| Evaluation applied | | |

Remark:

- 1. The maximum output power is 0.24mW at 2460MHz (with 1 numeric antenna gain.)
- 2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
- For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.

eirp = pt \times gt = $(E\times d)^2/30$

Where:

Pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{(dBuV/m)/20)}/10^6$

d = measurement distance in meters (m) --- 3m

So Pt = (Exd)2/30xgt

Maximum Field strength: 89.02 dBuV/m @3m –Channel high:2460MHz Refer to FCC Part 15C 15.249 Test Report page 12.

Ant gain = 0dBi; so Ant numeric gain=1

So, $Pt = \{[(10^{(89.02/20)}/10^6)\times3]^2/30\times1\}\times1000mW = 0.24 mW$



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Standard Requirement:

According to 447498 D01 General RF Exposure Guidance v05

 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

| Tune-up Maximum rated power (mW) | | 0.24 |
|----------------------------------|-------------------------|-------|
| Body | Antenna to user (mm) | 5 |
| | Frequency(GHz) | 2.460 |
| | Test result | 0.075 |
| | SAR exclusion threshold | 3 |

Per KDB 447498 D01v05r01 exclusion thresholds is 0.075< 3, RF exposure evaluation is not required.