

US Tech Test Report:
FCC ID:
IC:
Test Report Number:
Customer:
Model:

FCC Part 15/IC RSS Certification
2AV2S-CMAS1
26165-CMAS1
20-0128
Hill's Pet Nutrition, Inc
AGL3

SAR Threshold CFR 2.1093
RSS-102 section 2.5.1

The EUT separation distance is determined to be >15mm, therefore the separation distance used in all MPE and SAR threshold evaluations will be 15 mm.



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Highest Gain Antenna (2.4 GHz WiFi)= -6.16 dBi

Peak Power= (dBm)= 22.3 (highest measured output power level)

Gain of Transmit Antenna = -6.16 dBi

Distance = > 15 mm

time based average= Duty Cycle = 4% (from Theory of Operation)

Total source based time average= PWR dBm + ANT gain dBi * time based average

22.3 dBm + -6.16 dBi = 16.14 dBm = 41.11 mW * 0.04 = 1.64 mW

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Therefore: $1.64 \text{ (mW)} / 15 \text{ (mm)} \cdot (\sqrt{2.45 \text{ (GHz)}}) = 0.11$

Which is << less than 3.0 for FCC from per KDB 447498 D01 General RF Exposure Guidance v06

For IC the total source based time average = 1.64 mW (see above)

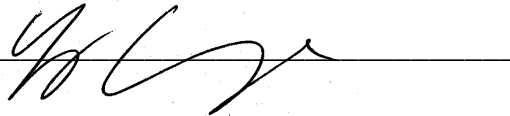
Which is << less than 15.0 mW for IC from Table 1 of RSS-102, section 2.5.1

All calculations performed by:

George Yang

Date: June 12, 2020

Signature: _____



Note validation of output power levels and antenna gain information please see the referenced test reports for this submittal.