EMC Test Data

- N	VE ENGINEER SUCCESS		
Client:	Google Inc.	Job Number:	JD104891
Model:	Model H0A	T-Log Number:	T104956
	INIQUEI FICA	Project Manager:	Deepa Shetty
Contact:	Dominik Mente	Project Coordinator:	-
Standard:	FCC 15.247 / 15.407 / RSS-247	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

NTS

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 8/8/2017 Test Engineer: Mark Hill

General Test Configuration

Calculation uses the free space transmission formula:

 $S = (PG)/(4 \pi d^2)$

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20cm separation: Yes

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Note: Power values from maximum power plus tune-up tolerance

FCC ID: A4RH0A IC: 10395A-H0A

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M. 1.1							T-Log Number:	T104956			
Model:	: Model H0A						Project Manager:	Deepa Shetty			
Contact:	Dominik Me	nte		Project Coordinator:	-						
Standard:	ECC 15 247 / 15 407 / RSS-247						Class:	N/A			
FCC MPE C	MPE Calculation										
Use:	General										
Antenna:	Two internal antennas: 4.0dBi and 3.4dBi @ 2.4GHz, 3.7dBi and 3.5dBi @ 5GHz; Tx/Rx diversity										
	EUT		Cable Loss	Ant	Power		Power Density (S)	MPE Limit			
Freq.	Power		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm			
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2			
2440	5./	3.7	0	4	5.7	9.33	0.002	1.000			
2440	5.8	3.8	0	4	5.8	9.55	0.002	1.000			
2437 5200	18.8	75.9	0	27	10.0	190.55	0.038	1.000			
5200	15.9	20.9	0	<u>3.1</u> 2.7	15.9	91.20	0.010	1.000			
5580	10.0	30.0	0	3.7	10.0	09.13	0.010	1.000			
5785	18.8	75.0	0	3.7	18.8	177.83	0.019	1.000			
5705	10.0	10.0	0	5.1	10.0	111.00	0.000	1.000			
Simultaneou	us Transmission - 802.11 and Bluetooth - using worse case operation Power Density (S) MPE Limit										
Freq.	at 20) cm	at 20) cm							
MHz	mW/cm^2		mW/cm^2		% of limit						
2440	0.002		1.000		0.2						
2437											
Total: 4.0 Industry Canada MPE Calculation Use: General Automac: Two internal antennas: 4.0dBi and 3.4dBi @ 2.4GHz, 3.7dBi and 3.5dBi @ 5GHz; Tx/Rx diversity											
	El	JT	Cable Loss	s Ant Power Power Density (S) MPE Limit		MPE Limit					
Freq.	Po	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm			
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2			
2440	5.7	3.7	0	4	5.7	9.33	0.002	0.541			
2440	5.8	3.8	0	4	5.8	9.55	0.002	0.541			
2437	18.8	75.9	0	4	18.8	190.55	0.038	0.540			
5200	15.9	38.9	0	3.7	15.9	91.20	0.018	0.907			
5300	15.8	38.0	0	3.7	15.8	89.13	0.018	0.919			
5580	16.1	40.7	0	3.7	16.1	95.50	0.019	0.952			
5785	18.8	75.9	0	3.1	18.8	177.83	0.035	0.976			
Simultaneou Freq. MHz 2440 2437	us Transmission - 802.11 Power Density (S) at 20 cm mW/cm^2 0.002 0.038		and Bluetooth - using wor MPE Limit at 20 cm mW/cm^2 0.541 0.540 Total:		rse case ope % of limit 0.4 7 7 4	ration					