

FCC RF EXPOSURE REPORT

FCC ID: 2ACGV-CA1300

Project No. : 1709C169
Equipment : Stellé Smart Pillar
Model : ST1007
Applicant : Eastech Electronics (Hui Yang) Co. Ltd
Address : Dong Fong District, Xinxu, Hui Yang, Hui
Zhou,Guangdong, China 516226

According: : FCC Guidelines for Human Exposure IEEE
C95.1 & KDB447498 D01

B T L I N C .

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Table for Filed Antenna

BT

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	Stelle	N/A	PCB	N/A	2.45

2.4G WIFI

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	N/A	3.6
2	N/A	N/A	PCB	N/A	4.4

Power table for 2.4G WIFI:

Max Avg tune up power (dBm)	Mode	Frequency (MHz)	AVG(dBm)	PEAK(dBm)
17.5	B	2412	17.32	20.96
		2437	17.34	20.79
		2462	16.85	20.64
15.5	G	2412	14.32	24.39
		2437	14.07	24.27
		2462	15.25	25.01
14.0	N20	2412	13.29	26.39
		2437	13.70	26.72
		2462	13.57	26.65

Power table for BT

Max Avg tune up power (dBm)	Date Rate	Average ConductedPower (dBm)		
		CH0	CH39	CH78
1	1Mbps	0.63	0.68	0.56
2.5	3Mbps	2.23	2.33	2.18

GENERAL CONCLUSION:

Per FCC KDB 447498 D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Standalone SAR test exclusion for BT:

P_{max} (dBm)*	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
2.5	1.78	5	2.480	0.56	3	No

Standalone SAR test exclusion for 2.4G WIFI:

P_{max} (dBm)*	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
17.5	56.23	30	2.462	2.94	3	No

Conclusion: No SAR evaluation required since the calculation result is below FCC SAR exclusion threshold.