TEST REPORT

Product Name:	ROCK Pi S
Trademark:	ROCKPI
Model Number:	ROCK PI S D4WPN8 ROCK PI S D4, ROCK PI S D4W, ROCK PI S D4P, ROCK Pi S D4WP, ROCK Pi S D4N8, ROCK Pi S D4WN8, ROCK Pi S D4PN8, ROCK PI S D2, ROCK PI S D2W, ROCK PI S D2P, ROCK Pi S D2WP, ROCK Pi S D2N8, ROCK Pi S D2WN8, ROCK Pi S D2PN8, ROCK Pi S D2WPN8, ROCK Pi S D2N4, ROCK Pi S D2WN4, ROCK Pi S D2PN4, ROCK Pi S D2WPN4, ROCK Pi S D4N4, ROCK Pi S D4WN4, ROCK Pi S D4PN4, ROCK Pi S D4WPN4
Prepared For:	ROCKPI TRANDING LIMITED
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Manufacturer:	ROCKPI TRANDING LIMITED
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Sample Received Date:	Feb. 09, 2020
Sample tested Date:	Feb. 09, 2020 to Apr. 16, 2020
Issue Date:	Apr. 16, 2020
Report No.:	BCTC1912000784-1E
Test Standards	EN 62311:2008
Test Results	PASS
Remark:	This is RED Health test report.

Compiled by:	Reviewed by:	Approved by:
Kelsey Tan	Eric Yang	Zero Zhou/Manager

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
BCTC1912000784-1E	Apr. 16, 2020	Original	Valid

2. PRODUCT INFORMATION AND TEST SETUP

2.1 Product Information

Model(s):	ROCK PI S D4WPN8 ROCK PI S D4, ROCK PI S D4W, ROCK PI S D4P, ROCK Pi S D4WP, ROCK Pi S D4N8, ROCK Pi S D4WN8, ROCK Pi S D4PN8, ROCK PI S D2, ROCK PI S D2W, ROCK PI S D2P, ROCK Pi S D2WP, ROCK Pi S D2N8, ROCK Pi S D2WN8, ROCK Pi S D2PN8, ROCK Pi S D2WPN8, ROCK Pi S D2N4, ROCK Pi S D2WN4, ROCK Pi S D2PN4, ROCK Pi S D2WPN4, ROCK Pi S D4N4, ROCK Pi S D4WN4, ROCK Pi S D4PN4, ROCK Pi S D4WPN4
Model Description:	All the model are the same circuit and RF module, except model names.
Wi-Fi Specification:	IEEE 802.11b/g/n
Hardware Version:	N/A
Software Version:	N/A

Operation Frequency:	WiFi: IEEE 802.11b/g/n HT20: 2412-2472MHz HT40:2422-2462MHz
Max. RF output power:	WiFi (2.4G) :13.67dBm
Type of Modulation:	WiFi: DSSS, OFDM
Antenna installation:	WIFI: Internal antenna
Antenna Gain:	WiFi (2.4G) : 1dBi
Ratings:	DC 5V

3. HEALTH REQUIREMENTS

3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz, unperturbed RMS values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1 Hz	-	3.2×10^4	4×10^4	-
1-8 Hz	10000	$3.2\times10^4/f^2$	$4\times10^4/f^2$	-
8-25 Hz	10000	4000/f	5000/f	-
0.025-0.8 kHz	250/f	4/f	5/f	-
0.8-3 kHz	250/f	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	0.73/f	0.92/f	-
1-10 MHz	$87/f^{1/2}$	0.73/f	0.92/f	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	$1.375\ f^{1/2}$	$0.0037\ f^{1/2}$	$0.0046\ f^{1/2}$	f/200
2-300 GHz	61	0.16	0.2	10

Note:
1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, Seq, E^2, H^2 and B^2 are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, Seq, E^2, H^2 and B^2 are to be averaged over any $68 / f^{1.05}$ minute period (f in GHz).

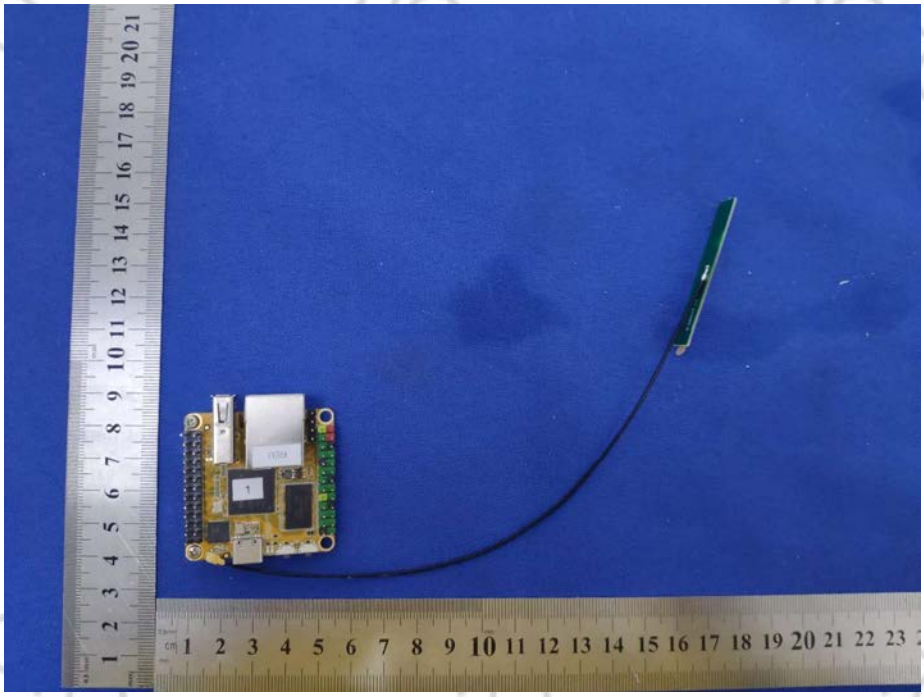
3.2 Exposure Evaluation

From Council Recommendation 1999/519/EC table 2, the maximum power density is 10 W/m2.
Power density (S) is calculated by the following formula:
$S = PG * \text{Duty factor} / 4\pi R^2$
P = Peak Power Input to antenna (Watts)
G =Antenna Gain (numeric)
R = distance to the center of radiation of antenna (in meter) = 0.20 m
Note:
1) P (Watts)=(10 ^ (dBm /10))/1000
2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)
3) Duty factor=1.0
4) π=3.142

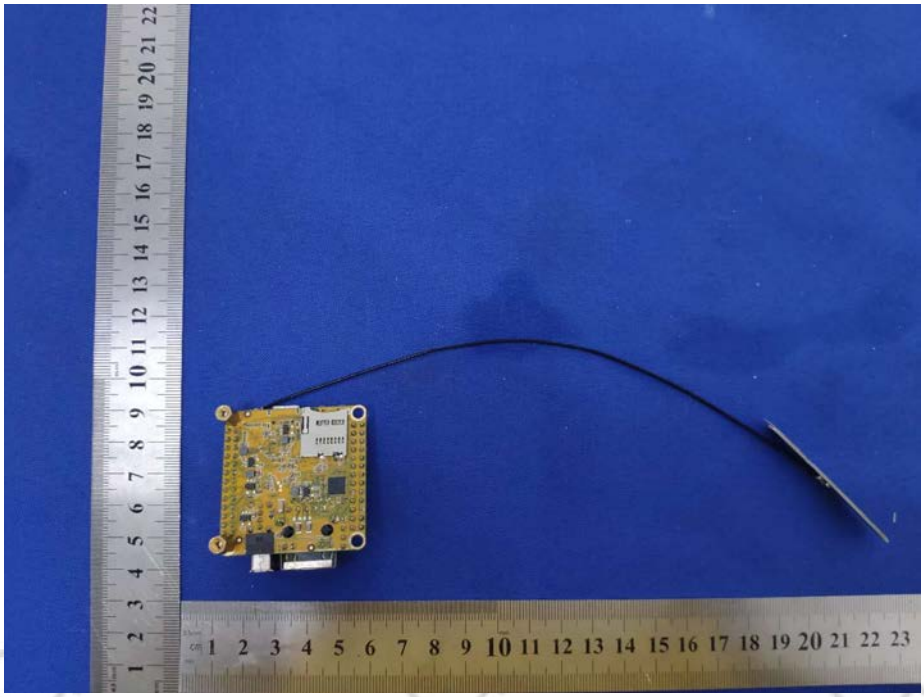
Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (W)	Duty factor	Calculated RF Exposure (W/m^2)	Limit (W/m^2)
802.11b	1	1.259	13.67	0.023	1.00	0.0583	10

4. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



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