

RF Exposure compliance

RSS-102

1 - Annex C, Declaration of RF exposure compliance for exemption from routine evaluation limits

Company number:	30104																																																					
Model number:	N2																																																					
Manufacturer:	Shenzhen Good Energy Technology Co.,LTD																																																					
2.5.1 SAR evaluation:	2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance^{4,5} <table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="5">Exemption Limits (mW)</th></tr><tr><th>At separation distance of ≤5 mm</th><th>At separation distance of 10 mm</th><th>At separation distance of 15 mm</th><th>At separation distance of 20 mm</th><th>At separation distance of 25 mm</th></tr><tr><td>≤300</td><td>71 mW</td><td>101 mW</td><td>132 mW</td><td>162 mW</td><td>193 mW</td></tr><tr><td>450</td><td>52 mW</td><td>70 mW</td><td>88 mW</td><td>106 mW</td><td>123 mW</td></tr><tr><td>835</td><td>17 mW</td><td>30 mW</td><td>42 mW</td><td>55 mW</td><td>67 mW</td></tr><tr><td>1900</td><td>7 mW</td><td>10 mW</td><td>18 mW</td><td>34 mW</td><td>60 mW</td></tr><tr><td>2450</td><td>4 mW</td><td>7 mW</td><td>15 mW</td><td>30 mW</td><td>52 mW</td></tr><tr><td>3500</td><td>2 mW</td><td>6 mW</td><td>16 mW</td><td>32 mW</td><td>55 mW</td></tr><tr><td>5800</td><td>1 mW</td><td>6 mW</td><td>15 mW</td><td>27 mW</td><td>41 mW</td></tr></table>	Frequency (MHz)	Exemption Limits (mW)					At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm	≤300	71 mW	101 mW	132 mW	162 mW	193 mW	450	52 mW	70 mW	88 mW	106 mW	123 mW	835	17 mW	30 mW	42 mW	55 mW	67 mW	1900	7 mW	10 mW	18 mW	34 mW	60 mW	2450	4 mW	7 mW	15 mW	30 mW	52 mW	3500	2 mW	6 mW	16 mW	32 mW	55 mW	5800	1 mW	6 mW	15 mW	27 mW	41 mW
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2.5.2 RF exposure evaluation:	2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation RF exposure evaluation is required if the separation distance between the user and/or bystander and the device’s radiating element is greater than 20 cm, except when the device operates as follows: - below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance); - at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz; - at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance); - at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz; - at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance). In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.																																																					
E.i.r.p. calculation:	Worse case is as below: 3.34 dBm+2.63dBi(antenna gain) EIRP @2437MHz 3.34 dBm+2.63dBi =5.97 dBm Tune Up power: 5±1 dBm Max Tune Up power: 6 (dBm) =3.98 (mW) < 4Mw																																																					

Per RSS-102, when the minimum test separation distance is <20 cm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 3.98mW < 4mW, SAR testing is not required.

2 – Attestation

ATTESTATION: I attest that the radio communication apparatus meets the exemption from the routine evaluation limits in Section 2.5 of this standard; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of RSS-102.

	
Signature:	
Date:	Aug. 23, 2023
Name:	Meng Chun
Company:	Shenzhen Good Energy Technology Co.,LTD