

Maximum e.i.r.p. at any elevation angle above 30 degrees

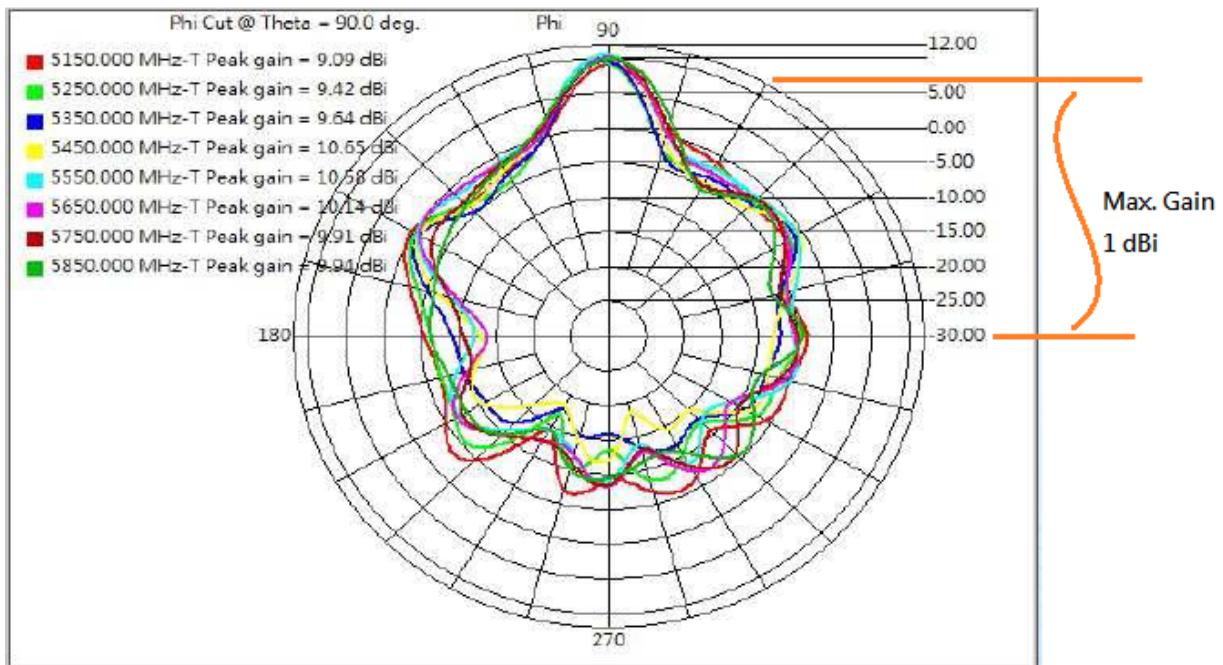
Device installation report for FCC U-NII-1 band (5.15- 5.25GHz) compliance

The Federal Communications Commission (FCC) established new rules for the 5.15 – 5.25 GHz U-NII-1 band in the Report and Order FCC-14-30A1 are effective from 2nd June, 2014. With the help of professional installation, all the ZDC devices can be configured to comply with the power requirements set in the rules. For an angle of elevation which is above 30 degrees, the maximum EIRP limit should be set to 125mW (21 dBm). The compliance can be achieved through proper selection of antenna, angle of installation, and Tx power control to provide reasonable protection from harmful interference to the users, authorized devices, and co-channel NGSO/MSS operations.

- ZDC devices such as BSUs (Base Station Units)/ SUs (Subscriber Units) are installed by professional installers to work in fixed outdoor configurations.
- These devices are in general mounted on a tower, roof, or at a place above the street level; therefore, it implies that all ZDC devices whether they have an external antenna or an integrated antenna support vertical alignment to achieve downward tilt.
- All devices support TPC (Transmit Power Control) configuration with a range of (0 – 21dB*) that allows professional installers to lower the power when necessary.

Note: * Transmit power control varies with the product type and specific modulation.

Antenna Pattern from the horizon



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Result:

MODE	BANDWIDTH (MHz)	FREQUENCY (MHz)	MAXIMUM CONDUCTED OUTPUT POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
Configuration IEEE 802.11a	20	5180	15.71	1.00	16.71	21	PASS
		5220	15.14	1.00	16.14	21	PASS
		5240	12.41	1.00	13.41	21	PASS
Configuration IEEE 802.11n_HT20	20	5180	18.45	1.00	19.45	21	PASS
		5220	17.28	1.00	18.28	21	PASS
		5240	16.30	1.00	17.30	21	PASS
Configuration IEEE 802.11_HT40	40	5190	13.29	1.00	14.29	21	PASS
		5230	16.87	1.00	17.87	21	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.