

Antenna Report

Radiation Characteristics of antenna located into a Host Platform

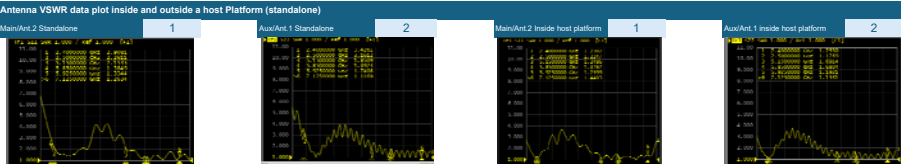
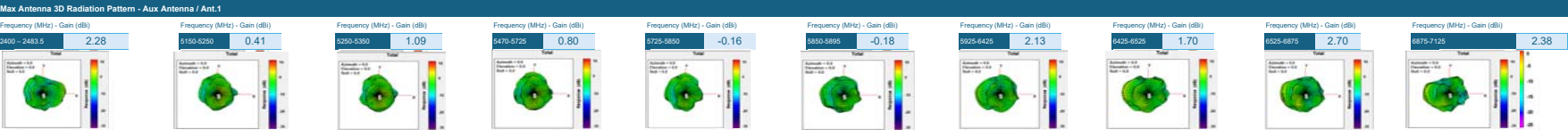
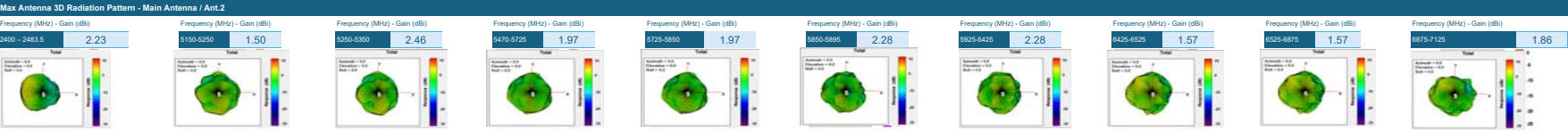
Antenna Peak Gain and VSWR w/ cable loss (dB) ¹⁾														2400 ~ 2483.5 MHz 5100-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz 5850-5895 MHz 5925-6425 MHz 6425-6525 MHz 6525-6875 MHz 6875-7125 MHz													
Antenna Cycle	OEM	ODM	Host Platform Name	Host Platform Type	Intel Platform	Antenna-Manufacturer	Antenna-Type	Antenna-PN	Antenna Main/Aux	SAR min separation (mm)	WiFi-Module	Applicable Certification	SAR FCC-RED C/PC Apply	Antenna Metrics ²⁾	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.0 GHz	Applicant e-mail	Application Date	UniqueID
2025055	Pegatron Corporation	Acer	COA732K	Regular NB	YES	Hip Tech Electronics Co., Ltd	PIFA	1415-0B02000	Main/Ant.2	8.55	211D2W-FCC O	#N/A	YES	Gain	2.23	1.50	2.46	1.97	1.97	2.28	2.28	1.57	1.57	1.86	rex_wu@pega	2025-04-25	-144310
2025055	Pegatron Corporation	Acer	I25P2/COA732K	Regular NB	YES	Hip Tech Electronics Co., Ltd	PIFA	1415-0B03000	Aux/Ant.1	199.65	211D2W-FCC O	#N/A	YES	Gain	2.28	0.41	1.09	0.80	-0.16	-0.18	2.13	1.70	2.70	2.38	rex_wu@pega	2025-04-25	-144310
2025055	Pegatron Corporation	Acer	I25P2/COA732K	Regular NB	YES	Tek Electronics Co.	PIFA	1415-0B02000	Main/Ant.2	8.55	211D2W-FCC O	#N/A	YES	VSWR	1.23	1.24	1.34	1.41	1.47	1.37	1.33	1.26	1.34	1.44	rex_wu@pega	2025-04-25	-144310
2025055	Pegatron Corporation	Acer	I25P2/COA732K	Regular NB	YES	Tek Electronics Co.	PIFA	1415-0B03000	Aux/Ant.1	199.65	211D2W-FCC O	#N/A	YES	VSWR	1.25	1.69	1.53	1.62	1.68	1.52	1.46	1.63	1.73	1.36	rex_wu@pega	2025-04-25	-144310

1. 3D Antenna Peak Gain required being test in system basis

2. Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10 dB) for dual band LBNB modules and 2.32 (S11 < -8 dB) for triple band LBNB/LNB modules

Intel Reference Antenna Gain and Type											
Antenna Type	Gain (dBi)	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.0 GHz
PIFA	Design Reference	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFA	For WiFi 6E and earlier	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.59
PIFA	From WiFi 7 modules	2.95	5.11	4.58	5.15	4.95	5.02	5.02	4.96	4.96	4.96
Dipole	For WiFi 6E and earlier	2.89	2.92	3.19	4.41	4.22	4.22	4.33	4.49	5.34	5.34
Dipole	From WiFi 7	2.95	4.03	4.11	5.15	5.13	5.45	5.02	4.71	4.49	4.96
Monopole	From WiFi 7	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79

3D Peak Antenna gain should be equal or greater than -2 dB. If a host integrator plans to use a lower gain antenna of the same type, additional CBR/FCC/EDT(EU) testing need to be performed while the module is installed in the host.



Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10dB)

Unique ID Generator

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