

Antenna Report

Radiation Characteristics of antenna located into a Host Platform

Antenna Peak Gain and VSWR w/ cable loss (dBi) ¹														2400 ~ 2483.5 MHz 5150-5250 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											Unique ID Generator		
																								202507-103847			
																								Copyright belongs the value of the generated ID to avoid to be changed along with the file is updated. The same ID will be the located in the file too.			
Antenna Cycle	OEM	ODM	Host Platform Name	Host Platform Type	Intel Platform	Antenna-Manufacturer	Antenna-Type	Antenna-FW	Antenna Main/Aux	SAR min separation (mm)	WiFi-Module	Applicable Certification	SAR FCC/ISED/CE/UK 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
202507	DELL	Compal	T08H	Tablet	Yes	Auden	Monopole	A33487-30(DC330030Q08L)	Main/Ant.2	3.95	BE201NGW	FCC, ISED, NCC	YES	Gain	1.15	0.33	1.07	1.09	0.50	0.50	2.06	1.88	1.88	1.85	Angel_Huang@compal.com	2025-04-07	202507-143446
202507	DELL	Compal	T08H	Tablet	Yes	Auden	Monopole	A33454-30(DC330030Q08L)	Aux/Ant.1	3.95	BE201NGW	FCC, ISED, NCC	YES	Gain	-0.57	2.14	1.77	1.32	1.32	1.23	2.26	-0.15	0.40	-0.07	Angel_Huang@compal.com	2025-04-07	202507-143446
202507	DELL	Compal	T08H	Tablet	Yes	Auden	Monopole	A33487-30(DC330030Q08L)	Main/Ant.2	3.95	BE201NGW	FCC, ISED, NCC	YES	VSWR	1.95	2.15	1.87	2.17	2.24	2.10	2.76	2.86	2.88	1.90	Angel_Huang@compal.com	2025-04-07	202507-143446
202507	DELL	Compal	T08H	Tablet	Yes	Auden	Monopole	A33454-30(DC330030Q08L)	Aux/Ant.1	3.95	BE201NGW	FCC, ISED, NCC	YES	VSWR	1.74	1.52	1.49	1.41	1.58	1.68	1.84	1.93	1.97	2.18	Angel_Huang@compal.com	2025-04-07	202507-143446

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

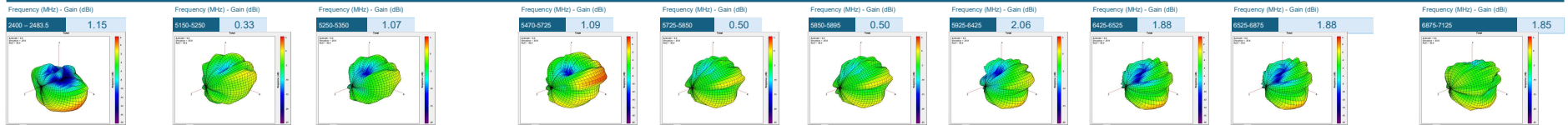
2: Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10 dB) for dual band LBNB modules and 2.32 (S11 < -8 dB) for triple band LBNB/UHB modules

Intel Reference Antenna Gain and Type

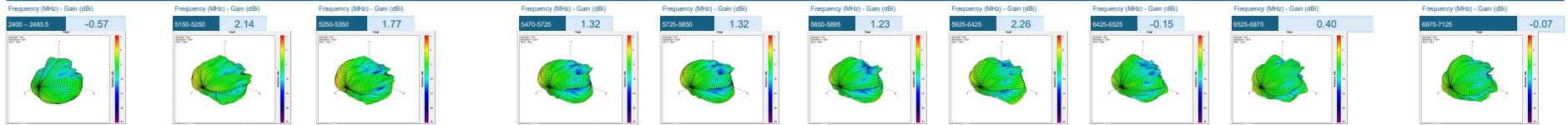
Antenna Type	Application	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.0 GHz
PIFA5	Design Reference	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFA6	For WiFi 6E and ear	3.24	3.64	3.19	4.77	4.97	4.72	4.83	4.30	5.37	5.59
PIFA7	From WiFi 7 module	2.95	5.11	4.55	5.15	5.13	4.45	5.02	5.02	4.96	4.96
Dipole	For WiFi 6E and ear	2.89	2.82	3.19	4.41	4.22	4.22	4.83	4.30	4.49	5.34
Dipole ²	From WiFi 7	2.96	4.03	4.11	5.15	5.13	4.45	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 CBP(FCC)/EUT(EU) testing need to be performed while the module is installed in the host.

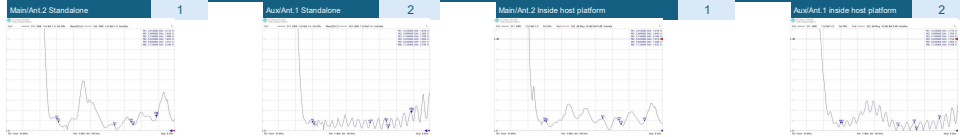
Max Antenna 3D Radiation Pattern - Main Antenna / Ant.2



Max Antenna 3D Radiation Pattern - Aux Antenna / Ant.1



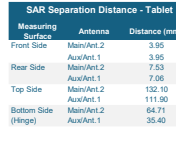
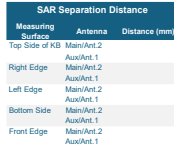
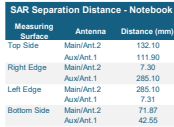
Antenna VSWR data plot inside and outside a host platform (standalone)



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

Antenna Location for SAR evaluation Cable Assembly

PN	Length	Dimensions	Impedance	Connector Type
Main	99 mm	1.13 mm SLL	50-ohm	IPEX-4
Aux	286 mm	1.13 mm SLL	50-ohm	IPEX-4



ID	Item Name	Manufacturer	Serial Number	Calibration Date	Calibration Due Date
ENR Series Network Analyzer	Keylight	Keylight	MY46100746	2024.11.25	2025.11.11
	RF Switch	Keylight	MY42000955	NCR	NCR
	Multi-Axis Positioner Controller	ETS-Lindgren	N/A	NCR	NCR
	Medium-Duty Positioner	ETS-Lindgren	N/A	NCR	NCR
	Measurement Horn Antenna	EMCO	00068722	NCR	NCR
	Anechoic Chamber	ETS-Lindgren	N/A	2024.12.06	2025.12.05
	A/M1-SMA/M1-20core for 60cm RG316DS Cable	Waken Technology Inc.	N/A	N/A	N/A
SMA/M1-30core for 300cm RG316DS Cabl	Waken Technology Inc.	N/A	N/A	N/A	

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