

Antenna Report

Page 2

Radiation Characteristics of antenna located into a Host Platform



Antenna Peak Gain and VSWR w/ cable loss (dB)														1452~1462 MHz 1584~1600 MHz 1734~1738 MHz 1754~1758 MHz 1774~1784 MHz 1824~1830 MHz 1845~1855 MHz 1874~1878 MHz																Applicant name		Application date		Unique ID	
Antenna Code	OSM	Host Platform Name	Host Platform Type	Modulation	Antenna Manufacturer	Antenna Type	Antenna Part#	SAR HH Report (10g/1kg)	ISO9001 cert	Apple-usb Certification	SAR FCC: FCC ID (FCC App#)	Antenna Rating	1452 MHz	1462 MHz	1584 MHz	1600 MHz	1734 MHz	1738 MHz	1754 MHz	1758 MHz	1774 MHz	1784 MHz	1824 MHz	1830 MHz	1845 MHz	1855 MHz	1874 MHz	1878 MHz	Applicant name	Application date	Unique ID				
202607	DELL	Luxshare	AS14	Regular NB	WGL	ICT	IFA	CTW42010401	Main	5.92	MT7820A13L	FCC	YES	Gain	1.58	1.13	1.23	1.86	2.03	1.86	1.99	1.98	1.76	2.21	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01			
202607	DELL	Luxshare	AS14	Regular NB	WGL	ICT	IFA	CTW42010401	Aux	5.92	MT7820A13L	FCC	YES	Gain	2.31	2.33	2.03	2.53	1.34	2.31	2.63	2.11	2.01	2.21	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01			
202607	DELL	Luxshare	AS14	Regular NB	WGL	ICT	IFA	CTW42010401	Main	5.92	MT7820A13L	FCC	YES	VSWR	1.49	2.36	2.53	2.61	1.95	2.21	1.55	1.67	1.99	1.80	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99			
202607	DELL	Luxshare	AS14	Regular NB	WGL	ICT	IFA	CTW42010401	Aux	5.92	MT7820A13L	FCC	YES	VSWR	1.94	2.71	2.54	1.66	1.88	1.42	1.21	1.96	1.31	1.84	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99			

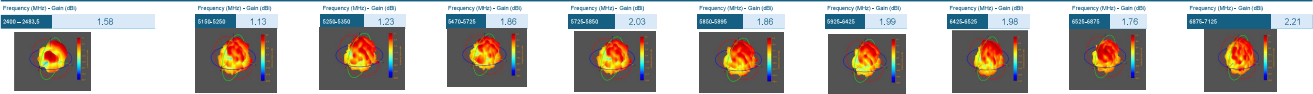
- 1: 3D Antenna Peak Gain required in system basis
2: OSM/OSM and platform antenna vendors should try to adapt the antenna with a VSWR of 2 (0.11~0.04dB) for a good antenna matching, and if not possible, try to achieve a VSWR of 3 (0.11~0.04dB) for a medium antenna matching.

Initial Reference Antenna Gain and Type

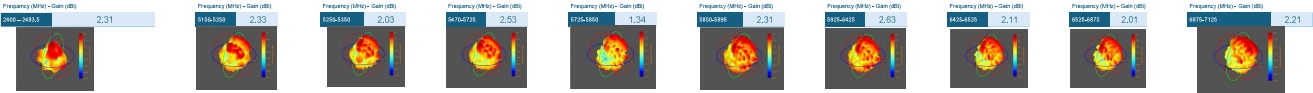
Antenna Type	Antenna Model	1452 MHz	1462 MHz	1584 MHz	1600 MHz	1734 MHz	1738 MHz	1754 MHz	1758 MHz	1774 MHz	1784 MHz	1824 MHz	1830 MHz	1845 MHz	1855 MHz	1874 MHz	1878 MHz
IFA	Design reference 1	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	For WPT-IG and other modules	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	From WPT-IG module	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	For WPT-IG and other modules	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	From WPT-IG module	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	For WPT-IG and other modules	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26
IFA	From WPT-IG module	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26

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 COMFCC/CEC/TEC/US testing need to be performed with the module is installed in the host.

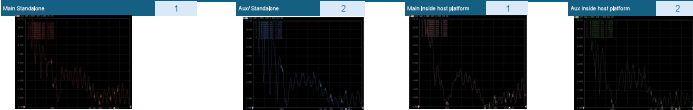
Max Antenna 3D Radiation Pattern - Main Antenna



Max Antenna 3D Radiation Pattern - Aux Antenna



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



Maximum VSWR of 2 (0.11~0.04dB) is a good antenna matching. If not possible, try to achieve a VSWR of 3 (0.11~0.04dB) for a medium antenna matching.