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Antenna Test Report

Client: Oni
Project Name: C012
Date: 2022.03.09
Version: 1

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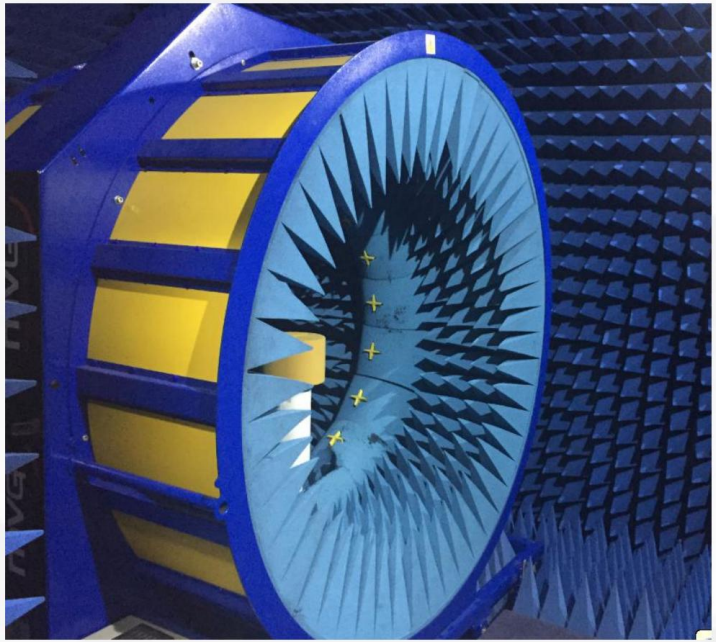
Laboratory test environment and equipment



Test items	Test Equipment
S11, S12, VSWR, LOSS	Network Analyzer E5071B, E5062A
Efficiency, Gain 3D Radiation Pattern	Satimo SG16 darkroom, GP7*4*3 darkroom, E5071B
TRP, TIS	Satimo SG16 darkroom, GP7*4*3 darkroom, 8960, CMW500, MT8820C, E4438C,

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Introduction to project debugging

Machine type				
		Band information		
Antenna type and frequency band information	antenna	2400-2480M		
Antenna material	Onboard Antenna			

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Antenna passive standing wave diagram

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Antenna passive test data

Passive Test For WIFI2.4												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (dBi)	AttH (dB)	AttV (dB)
2400	43.86	-3.58	1.58	-0.57	22.108	21.749	1.58	-16.83	5.16	60	50.43	50.78
2410	40.04	-3.98	0.88	-1.27	19.985	20.054	0.88	-16.39	4.85	60	50.31	50.53
2420	40.05	-3.97	0.57	-1.58	19.923	20.122	0.57	-15.27	4.55	60	50.35	50.69
2430	38.77	-4.11	0.42	-1.73	19.169	19.602	0.42	-14.24	4.53	150	50.65	50.93
2440	41.5	-3.82	0.64	-1.51	20.154	21.348	0.64	-12.79	4.46	150	51.09	51.34
2450	39	-4.09	0.45	-1.7	18.399	20.604	0.45	-12.38	4.54	150	51.24	51.36
2460	36.28	-4.4	0.43	-1.72	16.622	19.657	0.43	-12.71	4.83	150	50.94	51.2
2470	29.77	-5.26	-0.14	-2.29	13.376	16.39	-0.14	-13.36	5.13	150	50.81	50.9
2480	29.02	-5.37	0.11	-2.04	12.948	16.069	0.11	-13.13	5.49	150	50.66	50.87
2490	29.3	-5.33	0.45	-1.7	13.073	16.225	0.45	-13.13	5.79	150	50.94	51.13
2500	29.88	-5.25	0.76	-1.39	13.38	16.498	0.76	-13.07	6	150	51.25	51.41

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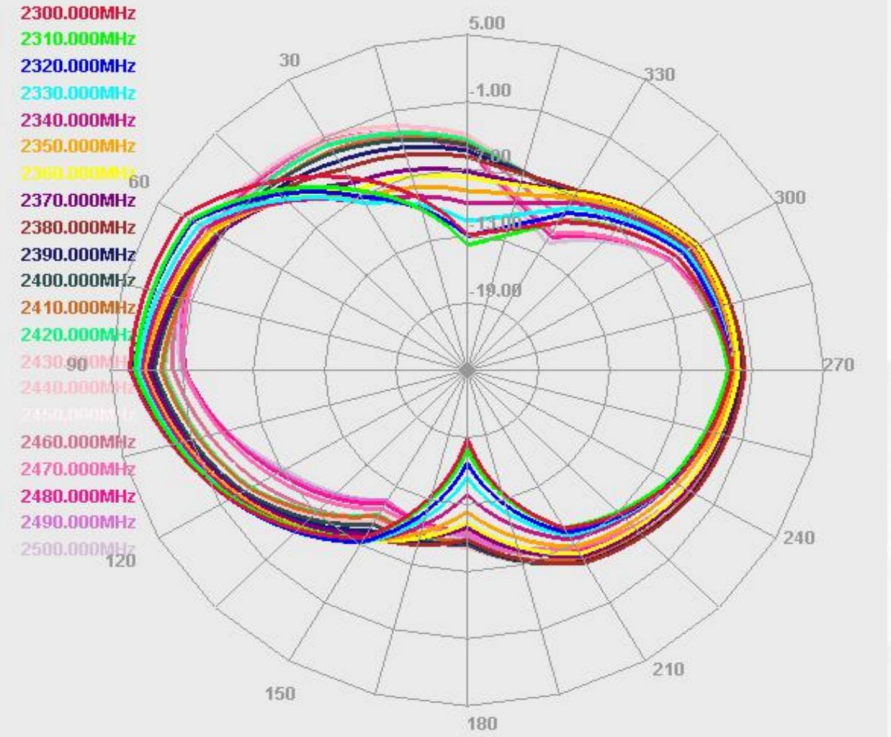
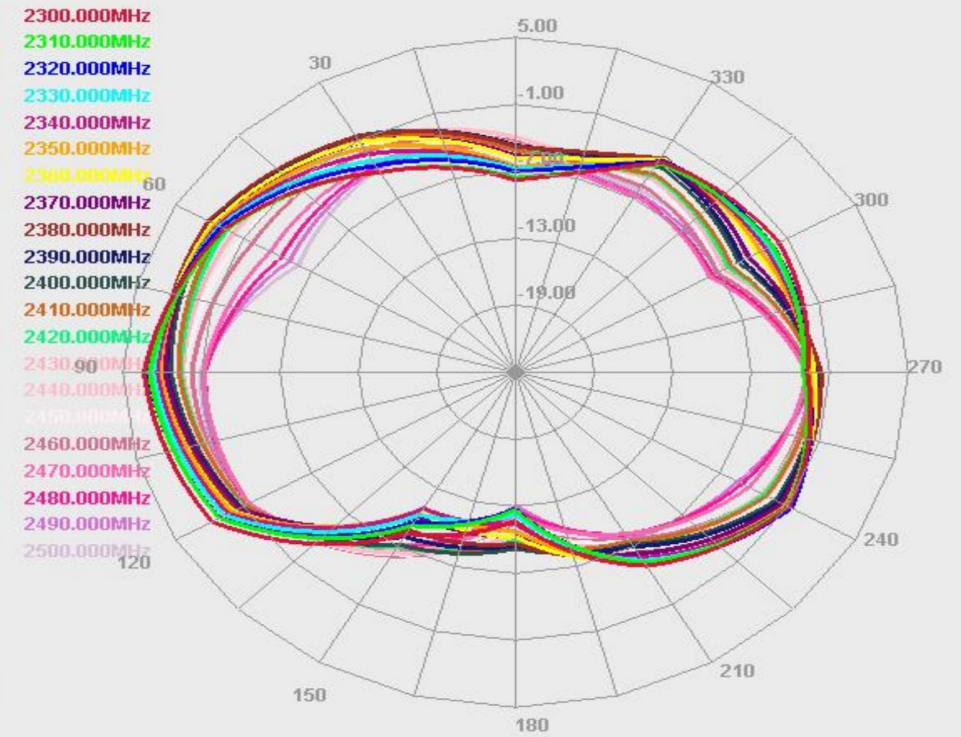
Antenna passive test pattern

Horizontal



E2 Face



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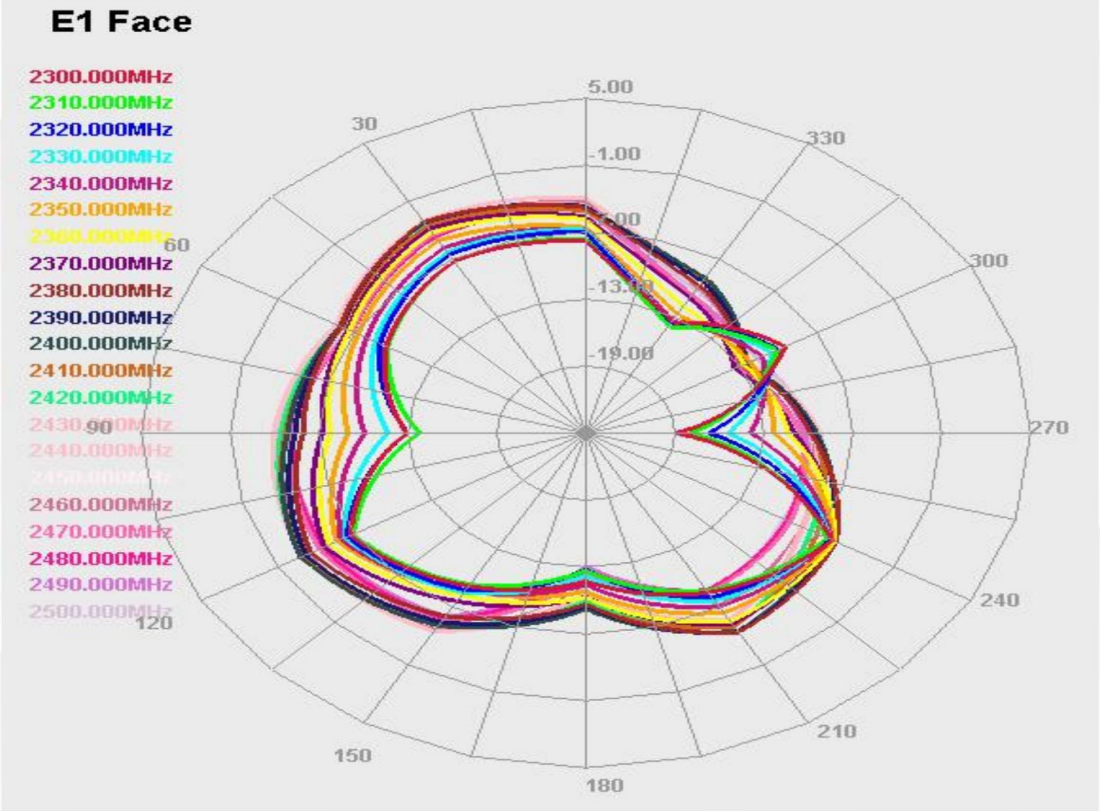
Antenna passive test pattern



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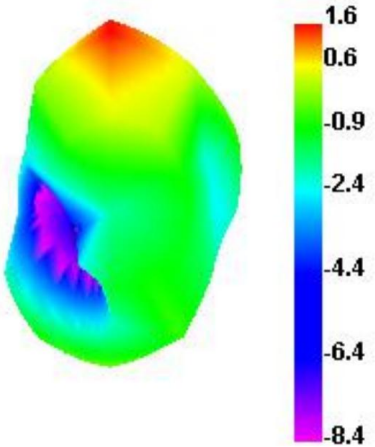
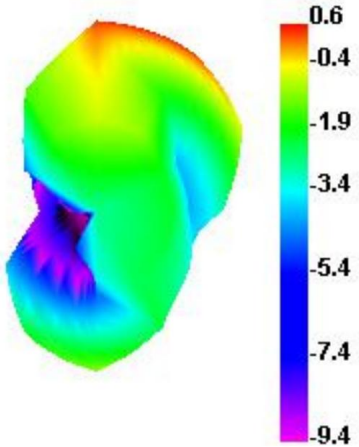
Antenna passive test Apple diagram

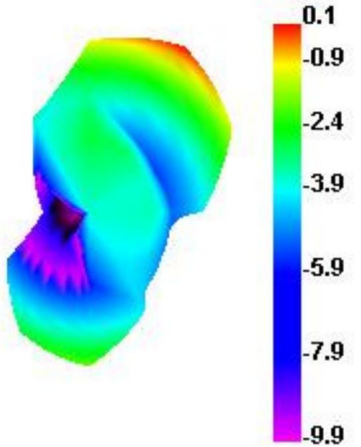
2400.000MHz



2440.000MHz



2480.000MHz



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THE END

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Thank you for your valuable comments!