

Approval Specification

GPS Fence BLE ANT

Data : 2024. 12. 11

Version : 1.0

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1. Approval Check List

[illegible]

2. APPLICATION

2.1 Application

- This specification was described for the GPS Fence BLE ANT Specifications

3. Antenna

3.1 Antenna Type

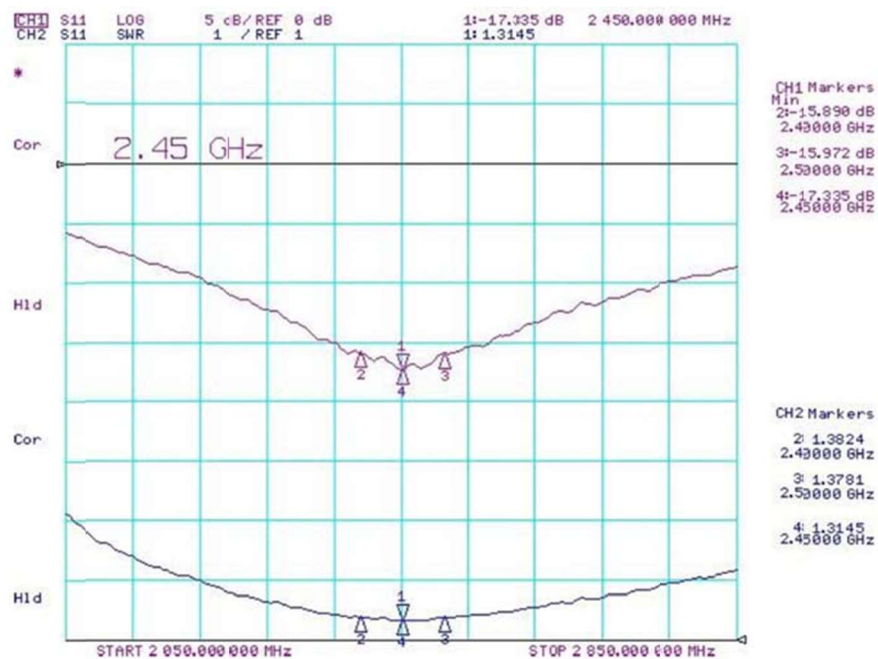
- PCB Pattern Antenna

3.2 Electrical Performance Data

3.2.1 Electrical Specifications

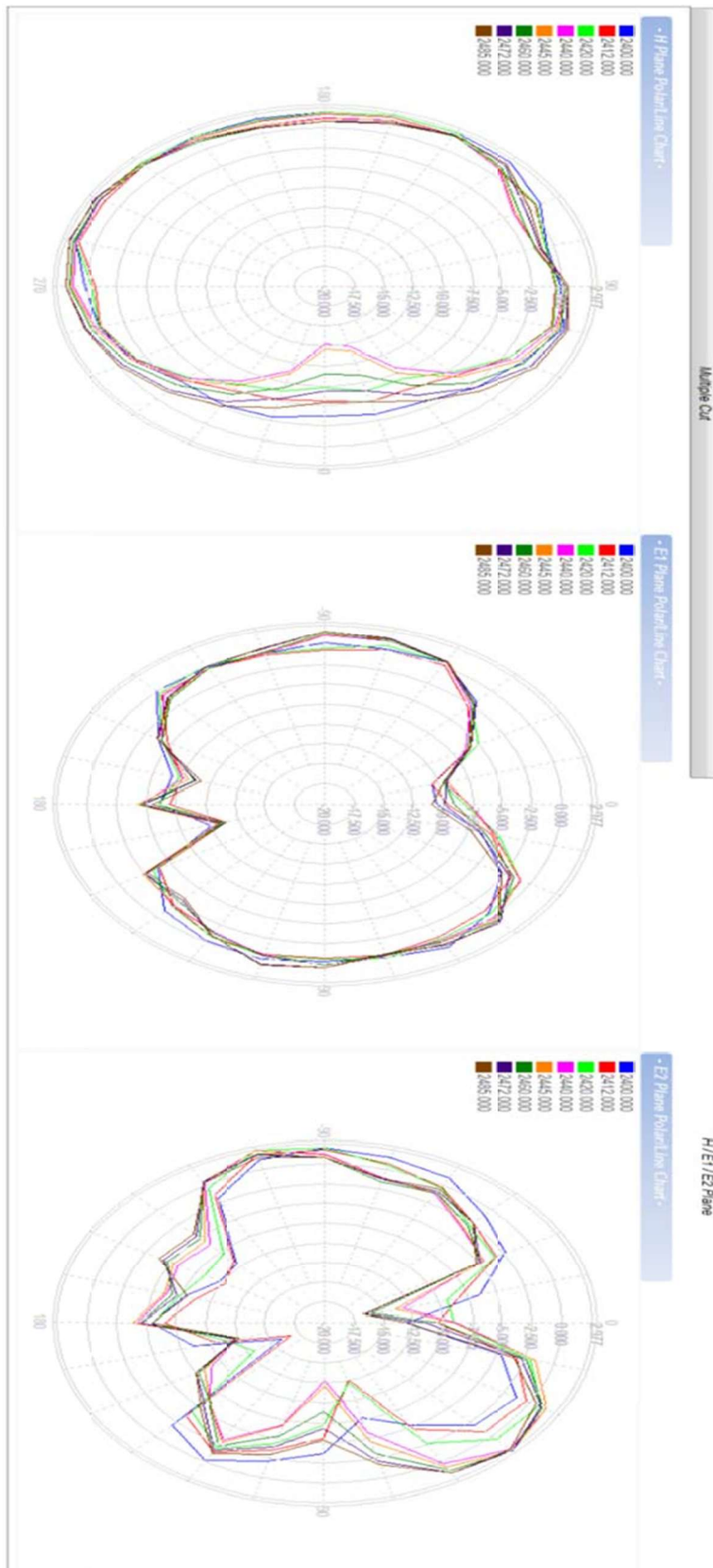
No	Item	Spec	Remark
1	Frequency Range [GHz]	2.4 ~ 2.485	
2	VSWR	Max 2.5:1	
3	Peak Gain [dBi]	Typ 2.9	
4	Total Avg. Gain [dBi]	Typ -0.9	
5	Efficiency [%]	Typ 80	
6	Impedance [Ω]	Norminal 50	

3.2.2 VSWR/RL



3.2.3 Radiation Pattern

Frequency	Sum			H/E=90			E1(E=90)			E2(E=0)		
	φ[deg]	θ[deg]	Max[dB]	Angle[d]	EN[d]	φ[deg]	Max[dB]	Angle[d]	EN[d]	φ[deg]	Max[dB]	Angle[d]
2400.000	75.0	120.0	2.796	-1.032	78.942	150.0	2.388	0.319	229.49	60.0	0.882	-1.848
2412.000	75.0	135.0	2.590	-1.464	71.385	165.0	2.179	-0.261	220.77	-60.0	0.208	-2.107
2420.000	75.0	135.0	2.697	-1.134	77.071	165.0	2.407	-0.151	182.43	-60.0	0.619	-1.752
2440.000	45.0	330.0	2.748	-1.091	80.466	150.0	2.094	-0.461	171.87	-75.0	1.328	-1.598
2445.000	45.0	345.0	2.977	-0.942	80.466	150.0	2.099	-0.308	173.90	-75.0	1.454	-1.494
2460.000	45.0	345.0	2.930	-0.939	80.553	265.0	2.090	-0.186	181.19	-60.0	1.665	-1.595
2472.000	45.0	345.0	2.934	-0.652	85.262	265.0	2.321	0.186	190.55	-60.0	1.871	-1.314
2485.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2490.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2500.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2512.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2520.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2540.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2545.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2560.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2572.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2585.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2590.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439
2600.000	45.0	345.0	2.856	-0.692	85.270	265.0	2.239	0.345	199.82	-60.0	1.931	-1.439



3.3 Antenna Drawing

