

Antenna Specifications

At Wavelink, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Wavelink Certifications:



Wavelink Partners:

Skyworth **NARI**

flex

 **HUAWEI**

 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

Hikvision

JABIL

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Wavelink

1 Product Description

This wavelink antenna covers 4G LTE bands and is compatible with 3G/2G bands.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	698-960 MHz 1710-2690MHz
Input Impedance	50 Ω

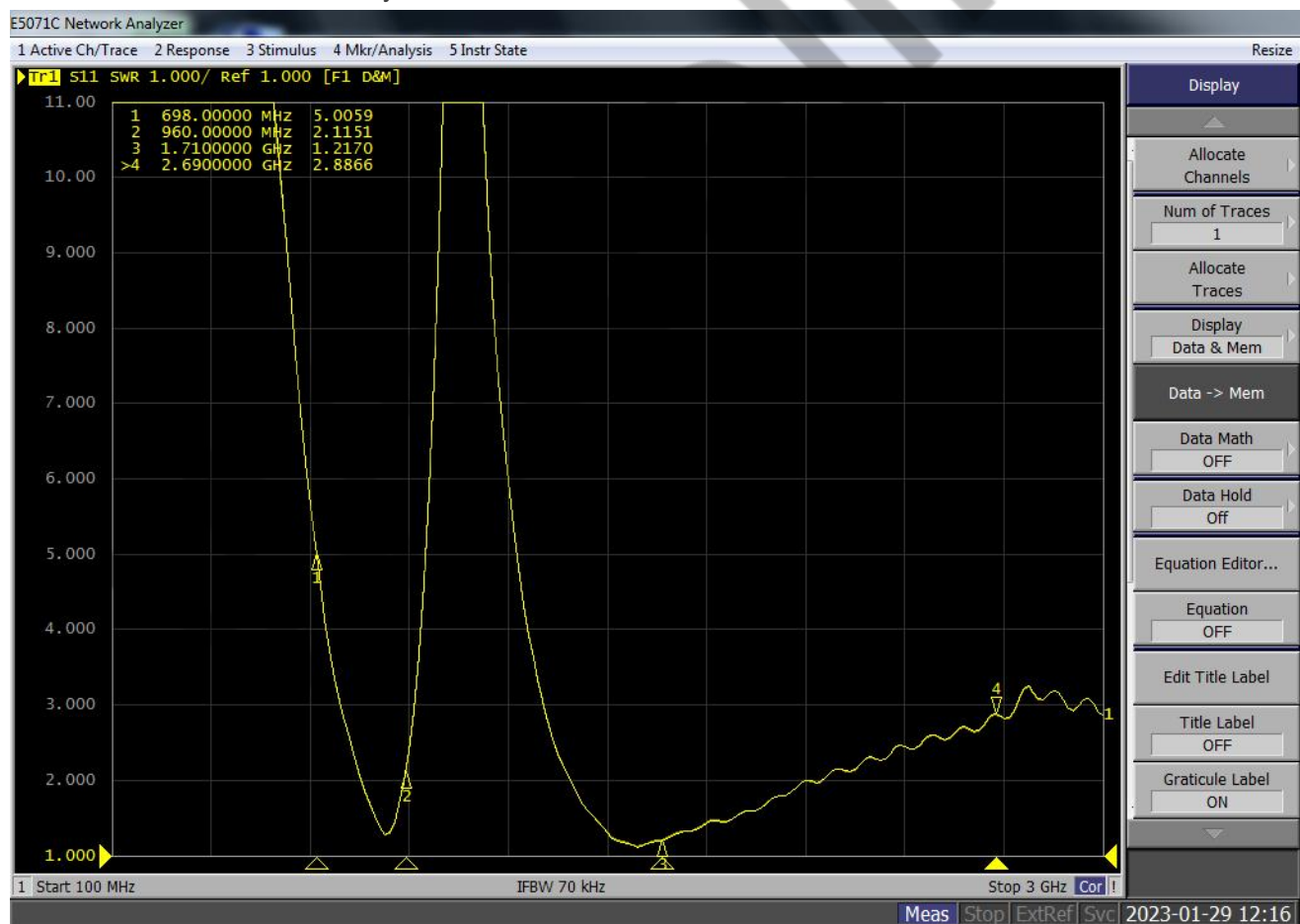
VSWR	≤5
Gain	≤3 dBi
Polarization Type	Linear

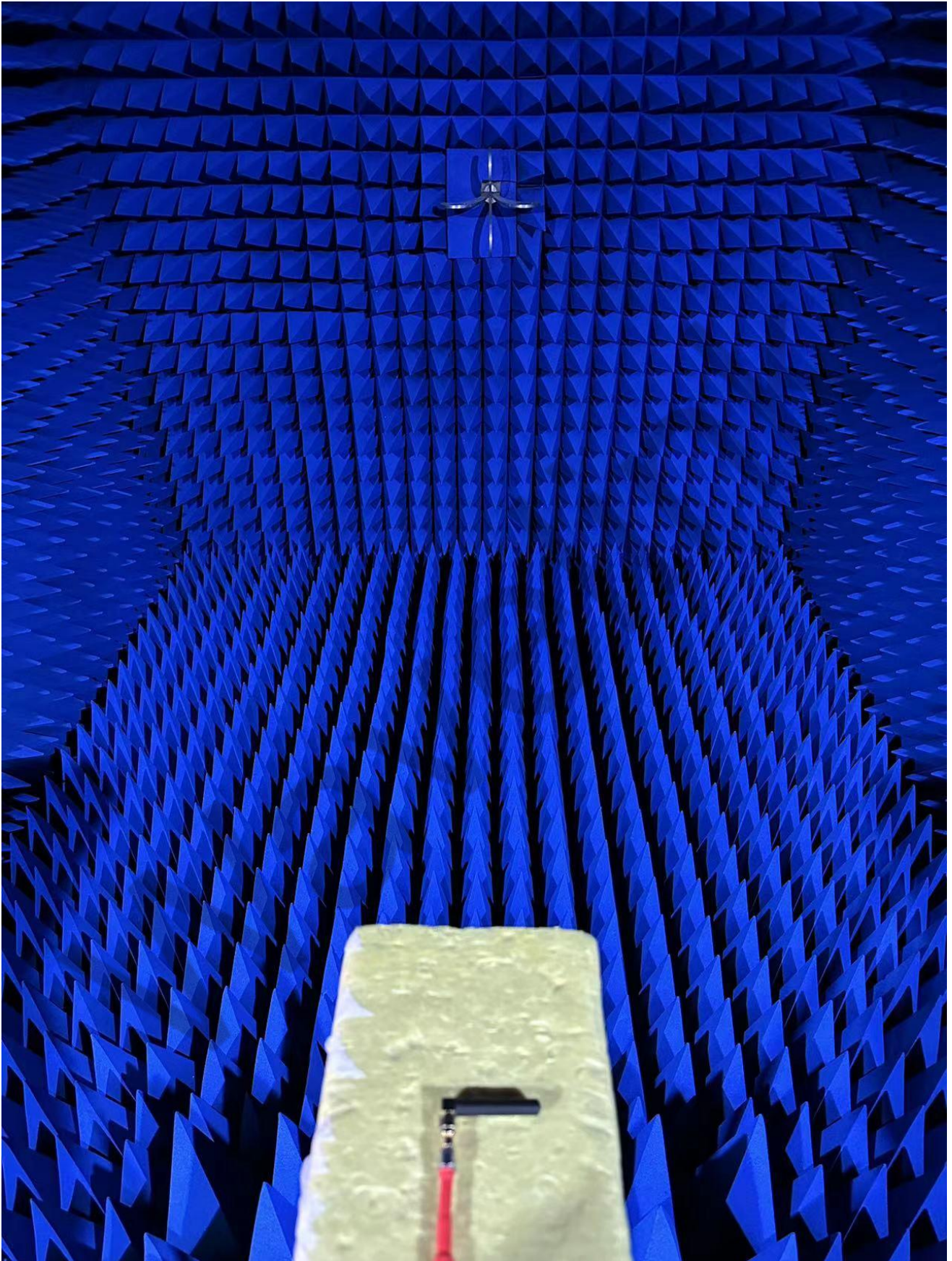
Mechanical Specifications

Antenna Size	48mm ×16.7mm
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

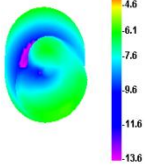
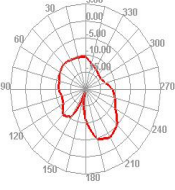
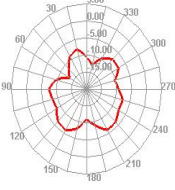
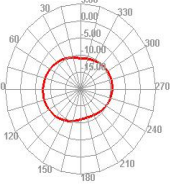
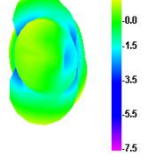
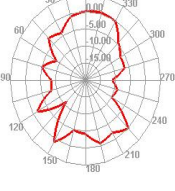
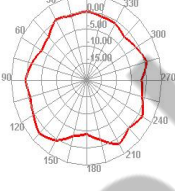
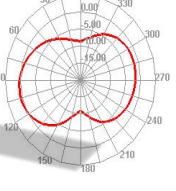




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	9.21	-12.66	-7.97	-10.12	-7.97	-23.75	4.69	40.9	41.05
700	8.42	-12.08	-7.4	-9.55	-7.4	-23.03	4.68	40.94	41.3
710	8.5	-14.46	-9.75	-11.9	-9.75	-24.66	4.71	37.74	38.17
720	7.01	-15.38	-10.69	-12.84	-10.69	-26.26	4.69	36.79	37.4
730	5.8	-14.43	-9.73	-11.88	-9.73	-24.79	4.71	37.17	37.7
740	5.26	-14.73	-10.09	-12.24	-10.09	-25.59	4.63	36.41	36.91
750	5.35	-14.49	-10.01	-12.16	-10.01	-25.17	4.48	36.09	36.52
760	5.41	-13.38	-9.12	-11.27	-9.12	-24.23	4.26	36.64	37.04
770	7.05	-11.52	-7.38	-9.53	-7.38	-21.88	4.14	38.25	38.67
780	7.07	-11.5	-7.56	-9.71	-7.56	-20.33	3.94	37.88	38.27
790	6.73	-12.92	-9.15	-11.3	-9.15	-21.39	3.77	36.56	36.95
800	8.05	-12.64	-8.98	-11.13	-8.98	-21.04	3.67	36.82	37.07
810	6.27	-12.03	-8.43	-10.58	-8.43	-20.49	3.6	37.25	37.42
820	8.44	-10.73	-7.05	-9.2	-7.05	-21.62	3.68	39.02	39.11
830	9.85	-10.07	-6.15	-8.3	-6.15	-22.4	3.91	39.56	39.57
840	8.17	-10.88	-6.81	-8.96	-6.81	-22.66	4.07	38.81	38.84
850	6.4	-11.94	-7.72	-9.87	-7.72	-22.57	4.22	37.83	37.83
860	7.07	-11.5	-7.37	-9.52	-7.37	-22.41	4.14	37.91	37.96
870	8.12	-10.91	-6.79	-8.94	-6.79	-22.07	4.11	38.46	38.47
880	11.15	-9.53	-5.48	-7.63	-5.48	-20.79	4.04	39.61	39.61
890	10.19	-9.92	-5.86	-8.01	-5.86	-21.62	4.05	39.81	39.8
900	8.65	-10.63	-6.19	-8.34	-6.19	-21.59	4.43	39.19	39.08
910	7.38	-11.32	-6.66	-8.81	-6.66	-23.6	4.66	38.6	38.49
920	8.15	-10.89	-5.94	-8.09	-5.94	-22.77	4.95	39.11	39.01
930	10.76	-9.68	-4.5	-6.65	-4.5	-21.36	5.18	40.29	40.15
940	12.9	-8.9	-3.51	-5.66	-3.51	-21.12	5.39	41.1	40.94
950	13.86	-8.58	-3.12	-5.27	-3.12	-20.61	5.46	41.08	40.8
960	12.53	-9.02	-3.6	-5.75	-3.6	-20.84	5.42	40.45	40.15
1710	47.33	-3.25	0.66	-1.49	0.66	-10.78	3.91	43.64	43.73
1720	42.72	-3.69	0.19	-1.96	0.19	-11.88	3.88	43.57	43.64
1730	43.23	-3.64	0.2	-1.95	0.2	-11.77	3.84	43.38	43.51
1740	44.35	-3.53	0.37	-1.78	0.37	-10.64	3.9	43.55	43.74
1750	45.01	-3.47	0.55	-1.6	0.55	-9.85	4.02	43.54	43.67
1760	52.28	-2.82	1.4	-0.75	1.4	-9.37	4.22	44.08	44.2
1770	46.7	-3.31	1.15	-1	1.15	-10.19	4.46	43.94	43.96
1780	47.73	-3.21	1.31	-0.84	1.31	-10.78	4.52	43.88	43.96
1790	45.56	-3.41	1.01	-1.14	1.01	-11.23	4.42	43.78	43.86
1800	50.9	-2.93	1.21	-0.94	1.21	-10.92	4.14	44.14	44.26
1810	52.85	-2.77	1.4	-0.75	1.4	-10.5	4.17	44.18	44.34
1820	50.78	-2.94	1.32	-0.83	1.32	-9.85	4.26	43.92	44
1830	55.23	-2.58	1.74	-0.41	1.74	-8.84	4.32	44.15	44.19

1840	56.8	-2.46	1.9	-0.25	1.9	-8.26	4.36	44.32	44.24
1850	57.63	-2.39	2.01	-0.14	2.01	-8.13	4.4	44.37	44.24
1860	50.58	-2.96	1.43	-0.72	1.43	-8.63	4.39	43.84	43.71
1870	50.74	-2.95	1.51	-0.64	1.51	-8.89	4.46	43.83	43.68
1880	47.63	-3.22	1.32	-0.83	1.32	-9.43	4.55	43.59	43.44
1890	43.18	-3.65	0.9	-1.25	0.9	-10.35	4.55	43.43	43.27
1900	43.93	-3.57	0.96	-1.19	0.96	-10.35	4.54	43.31	43.14
1910	39.6	-4.02	0.43	-1.72	0.43	-10.47	4.45	43.06	42.82
1920	36.28	-4.4	-0.01	-2.16	-0.01	-10.35	4.39	42.71	42.59
1930	37.18	-4.3	0.07	-2.08	0.07	-9.46	4.37	42.74	42.58
1940	35.54	-4.49	-0.1	-2.25	-0.1	-9.68	4.39	42.67	42.57
1950	39.04	-4.09	0.37	-1.78	0.37	-10	4.46	43.05	42.98
1960	38.47	-4.15	0.45	-1.7	0.45	-11.05	4.6	43.29	43.18
1970	40.92	-3.88	0.81	-1.34	0.81	-11.76	4.69	43.19	43.09
1980	36.68	-4.36	0.31	-1.84	0.31	-12.86	4.67	42.91	42.88
1990	41.43	-3.83	0.75	-1.4	0.75	-12.55	4.57	43.26	43.22
2000	44.25	-3.54	0.89	-1.26	0.89	-12.22	4.43	43.48	43.5
2010	45.65	-3.41	0.98	-1.17	0.98	-12.05	4.38	43.87	43.98
2020	48.9	-3.11	1.25	-0.9	1.25	-11.99	4.36	43.8	43.88
2030	49.12	-3.09	1.43	-0.72	1.43	-12.45	4.52	43.96	44.12
2040	49.68	-3.04	1.65	-0.5	1.65	-13.19	4.69	44.03	44.15
2050	44.93	-3.47	1.32	-0.83	1.32	-14.19	4.8	43.53	43.67
2060	43.55	-3.61	1.24	-0.91	1.24	-14.56	4.85	43.54	43.65
2070	43.75	-3.59	1.21	-0.94	1.21	-14.31	4.8	43.54	43.63
2080	46.89	-3.29	1.43	-0.72	1.43	-13.45	4.72	43.89	44.08
2090	51.73	-2.86	1.73	-0.42	1.73	-13.52	4.59	44.18	44.37
2100	50.05	-3.01	1.61	-0.54	1.61	-13.43	4.62	44.25	44.49
2110	63.23	-1.99	2.63	0.48	2.63	-11.7	4.62	45.11	45.29
2120	58.11	-2.36	2.29	0.14	2.29	-12.42	4.64	44.96	45.12
2130	57.27	-2.42	2.16	0.01	2.16	-12.24	4.58	44.83	44.9
2140	60.68	-2.17	2.34	0.19	2.34	-11.32	4.51	44.98	45.08
2150	58.29	-2.34	2.03	-0.12	2.03	-10.96	4.37	45.02	45.11
2160	58.7	-2.31	2.04	-0.11	2.04	-11.09	4.35	44.82	44.88
2170	64.82	-1.88	2.49	0.34	2.49	-11.25	4.37	45.41	45.58
2180	61.42	-2.12	2.28	0.13	2.28	-12.62	4.39	45.01	45.17
2190	58.42	-2.33	2.06	-0.09	2.06	-13.88	4.39	44.82	44.98
2200	59.29	-2.27	2	-0.15	2	-14.08	4.27	45.07	45.3
2210	69.91	-1.55	2.61	0.46	2.61	-12.46	4.16	45.85	46.01
2220	67.96	-1.68	2.35	0.2	2.35	-11.27	4.03	45.72	45.9
2230	61.18	-2.13	2.07	-0.08	2.07	-11.79	4.2	45.53	45.77
2240	57.45	-2.41	1.8	-0.35	1.8	-12.24	4.2	45.35	45.46
2250	63.42	-1.98	2.3	0.15	2.3	-11.11	4.28	45.63	45.76
2260	60.51	-2.18	2.01	-0.14	2.01	-11.96	4.2	45.64	45.72
2270	58.66	-2.32	1.95	-0.2	1.95	-12.7	4.27	45.54	45.59

2280	59.52	-2.25	2.09	-0.06	2.09	-12.46	4.34	45.62	45.71
2290	52.54	-2.79	1.77	-0.38	1.77	-13.07	4.56	45.39	45.52
2300	53.36	-2.73	2.26	0.11	2.26	-12.41	4.99	45.36	45.48
2310	52.72	-2.78	2.56	0.41	2.56	-11.65	5.34	45.49	45.58
2320	60.39	-2.19	3.46	1.31	3.46	-10.82	5.65	46.19	46.33
2330	60.05	-2.21	3.4	1.25	3.4	-10.95	5.61	46.05	46.11
2340	56.1	-2.51	3.05	0.9	3.05	-13.23	5.56	45.89	46.02
2350	59.83	-2.23	3.06	0.91	3.06	-14.83	5.29	46.13	46.2
2360	59.15	-2.28	2.89	0.74	2.89	-16.53	5.17	45.96	46.14
2370	61.34	-2.12	2.92	0.77	2.92	-15.95	5.04	46.1	46.25
2380	58.95	-2.29	2.75	0.6	2.75	-15.77	5.05	45.91	46.05
2390	59.11	-2.28	2.76	0.61	2.76	-15.75	5.04	45.9	46.16
2400	63.32	-1.98	3	0.85	3	-15.68	4.99	46.22	46.36
2410	64.91	-1.88	3.02	0.87	3.02	-15.98	4.9	46.43	46.62
2420	66.74	-1.76	2.91	0.76	2.91	-14.72	4.66	46.26	46.43
2430	68.71	-1.63	2.94	0.79	2.94	-13.46	4.57	46.64	46.77
2440	68.55	-1.64	2.72	0.57	2.72	-14.59	4.36	46.67	46.71
2450	60.33	-2.19	2.23	0.08	2.23	-17.02	4.43	46.18	46.34
2460	63.13	-2	2.47	0.32	2.47	-17.17	4.47	46.59	46.66
2470	65.07	-1.87	2.82	0.67	2.82	-16.71	4.69	46.53	46.64
2480	64.52	-1.9	2.91	0.76	2.91	-16.74	4.81	47	47.18
2490	66.87	-1.75	3.19	1.04	3.19	-16.69	4.94	46.72	46.79
2500	63.03	-2	2.93	0.78	2.93	-18.07	4.94	46.75	46.92
2510	65.46	-1.84	3.07	0.92	3.07	-19.06	4.91	47.15	47.22
2520	58.17	-2.35	2.43	0.28	2.43	-21.74	4.78	46.56	46.69
2530	56.74	-2.46	2.21	0.06	2.21	-23.8	4.67	46.64	46.68
2540	61.51	-2.11	2.56	0.41	2.56	-24.72	4.67	46.93	46.99
2550	54.18	-2.66	2.04	-0.11	2.04	-26.65	4.7	46.54	46.6
2560	58.15	-2.35	2.5	0.35	2.5	-26.46	4.85	46.9	46.95
2570	52.42	-2.81	2.06	-0.09	2.06	-27.06	4.86	46.65	46.69
2580	61.73	-2.1	2.77	0.62	2.77	-26.43	4.86	47.16	47.22
2590	50.61	-2.96	1.66	-0.49	1.66	-24.79	4.62	46.52	46.57
2600	53.28	-2.73	1.72	-0.43	1.72	-23.59	4.46	46.62	46.69
2610	57.85	-2.38	1.92	-0.23	1.92	-21.13	4.3	46.84	46.95
2620	51.16	-2.91	1.47	-0.68	1.47	-21.21	4.38	46.58	46.62
2630	60.16	-2.21	2.06	-0.09	2.06	-19.98	4.26	47.18	47.21
2640	49.43	-3.06	1.17	-0.98	1.17	-21.03	4.23	46.6	46.67
2650	57.11	-2.43	1.67	-0.48	1.67	-20.68	4.1	47.05	47.16
2660	59.96	-2.22	1.8	-0.35	1.8	-20.47	4.02	47.17	47.21
2670	52.86	-2.77	1.2	-0.95	1.2	-20.28	3.97	46.9	47.09
2680	65.17	-1.86	2.17	0.02	2.17	-18.58	4.03	47.7	47.77
2690	55.78	-2.54	1.55	-0.6	1.55	-18.59	4.09	46.95	47.1

Frequency	3D	E1	E2	H
960MHz	960.000MHz 	960.000MHz E1 	960.000MHz E2 	960.000MHz H 
2170MHz	2170.000MHz 	2170.000MHz E1 	2170.000MHz E2 	2170.000MHz H 

6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C. 2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature. 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem;No adhesion problem of glue).
Temperature Shock	1, The device under test at -40 °C ⇌125 °C by 100 cycles, Dwell of 30 mins, transition time between Dwell 30 secs (~ 61 mins / cycle) and each item should be measured after exposing them in normal temperature and humidity for 24 h. 2, Parts should meet RF spec before and after test. 3, No cosmetic problem(No soldering problem; No adhesion problem of glue).
High Temperature	1, Temperature:125°C, time:1008 hours 2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem; No adhesion problem of glue).
Salt mist test	1, The device under test is exposed to a spray of a 5% (by volume) resolution of NACL in water for 2 hours. Thereafter the device under test is left for 1 week in room temperature at a relative humidity of 95%. The cycle is repeated until a total of 2 cycles have been completed. Here after the conditions are stabilized at room temperature. 2, Parts should meet RF spec before and after test. 3, No visible corrosion. Discoloration accept.