

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 Partners:

Skyworth **NARI**

flex

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 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

Hikvision

JABIL

Catalogue

1	Product Description	3
2	Product Features	3
3	Product Specifications	3
4	Overall Performance	4
5	Product Size	10
6	Others	11

1 Product Description

This wavelink PCB 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

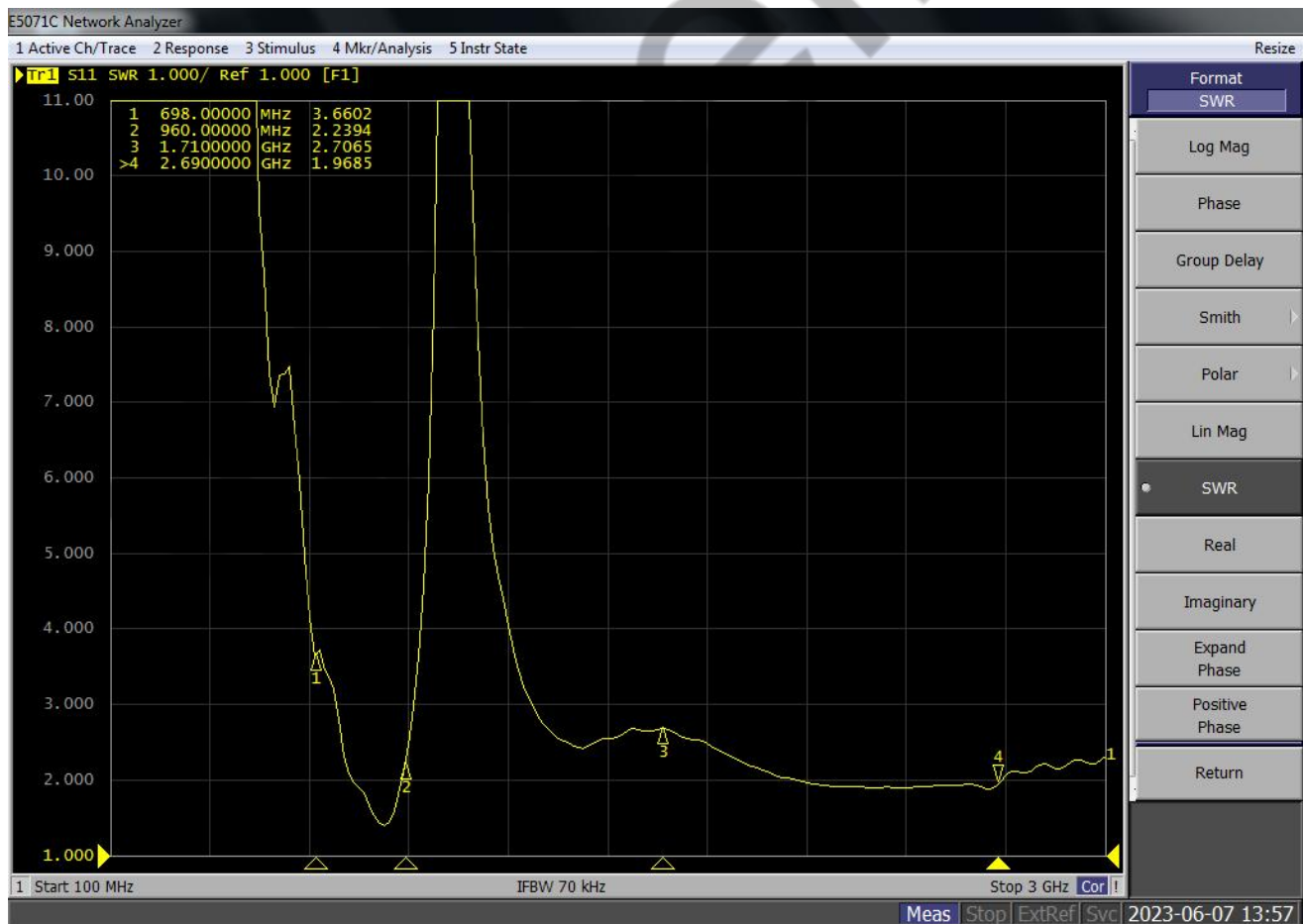
VSWR	≤ 4
Gain	≤ 4 dBi
Polarization Type	Linear

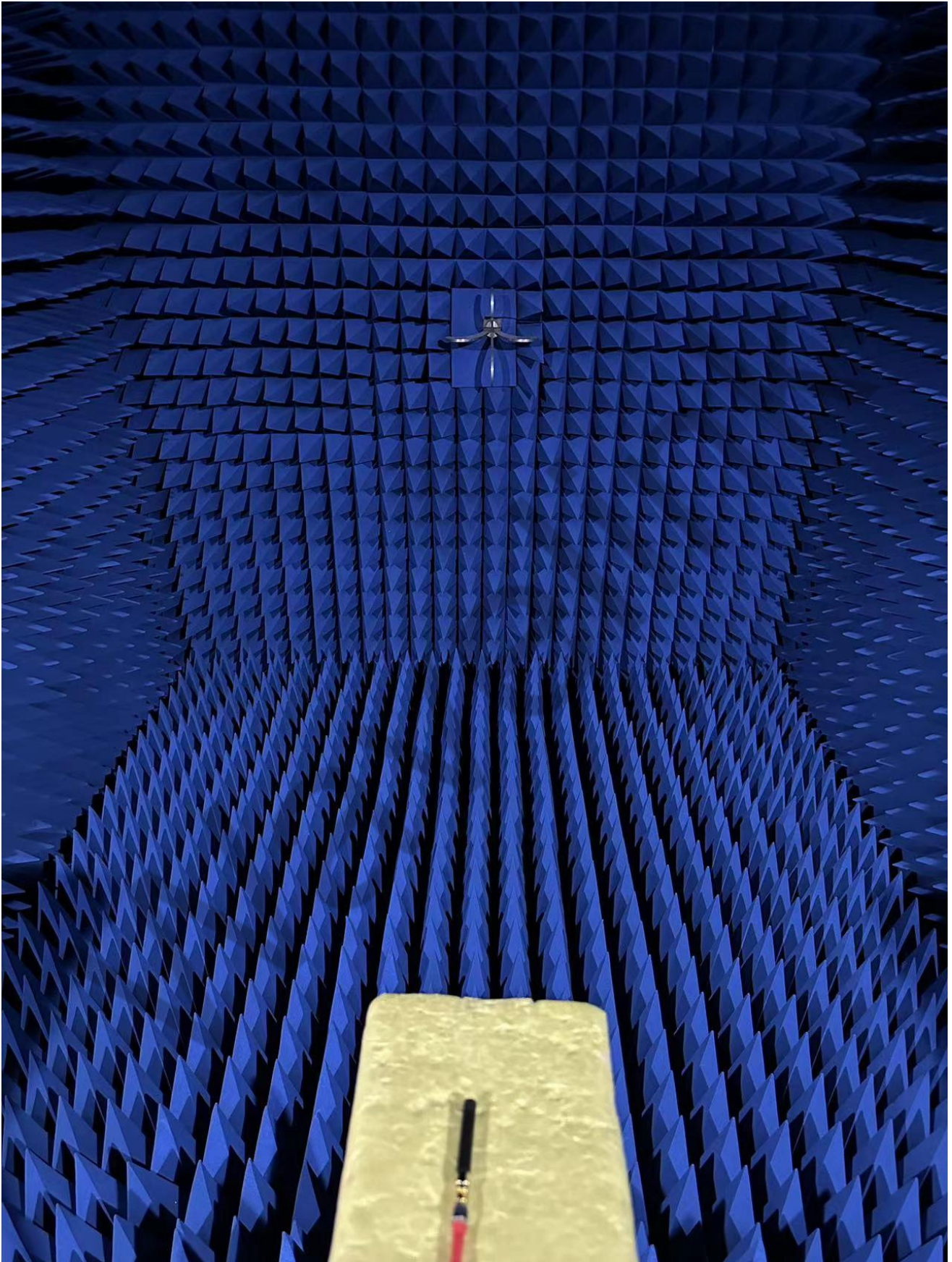
Mechanical Specifications

Antenna Size	50 mm × 7.8 mm
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

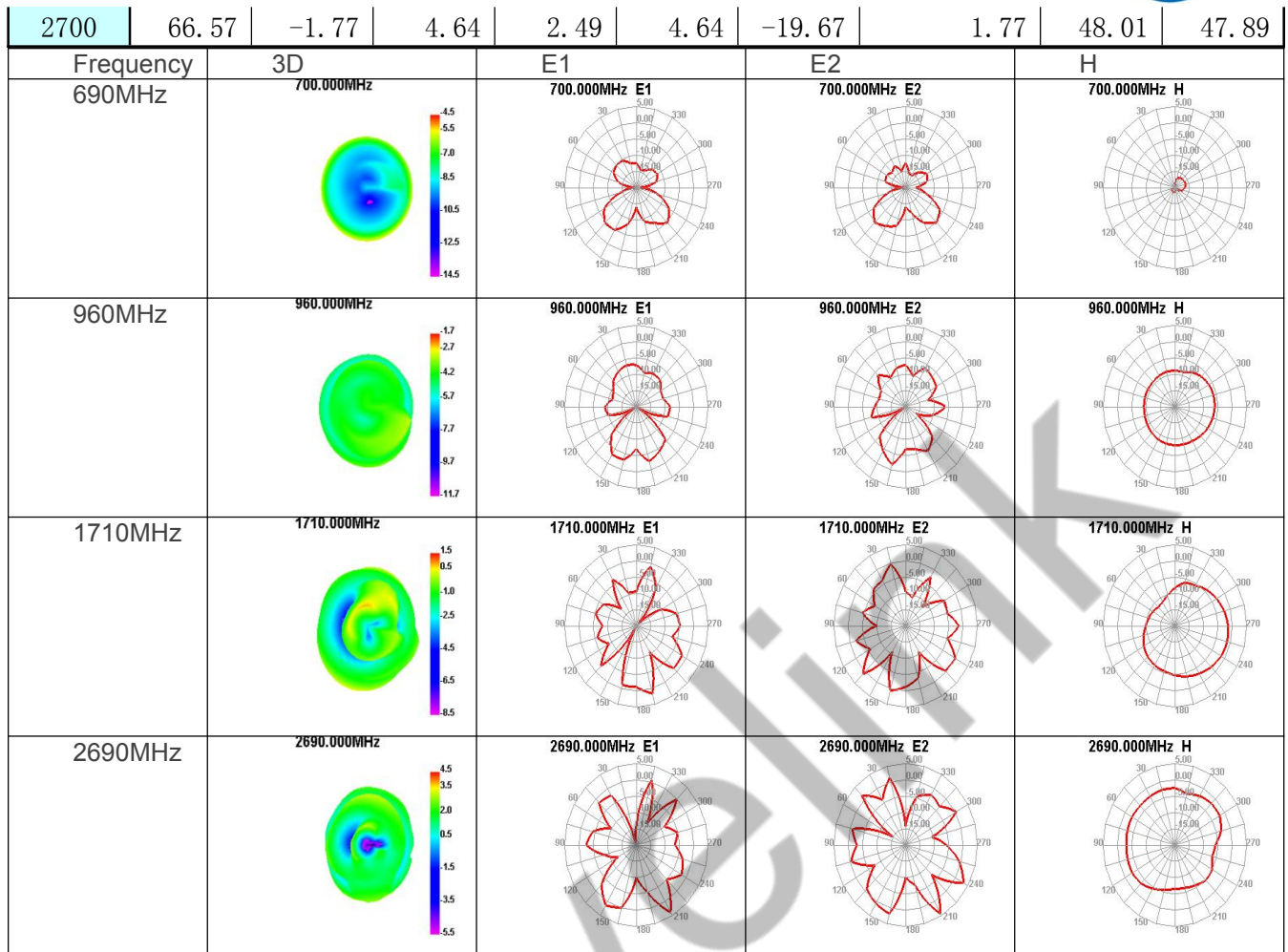




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	9.69	-10.14	-4.95	-7.1	-4.95	-22.18	10.14	38.96	38.58
700	10.39	-9.83	-4.54	-6.69	-4.54	-23.23	9.83	38.67	38.35
710	12.55	-9.01	-3.83	-5.98	-3.83	-20.01	9.01	38.56	38.31
720	11.91	-9.24	-4.25	-6.4	-4.25	-17.63	9.24	37.98	37.82
730	10.14	-9.94	-5.06	-7.21	-5.06	-18.26	9.94	37.83	37.7
740	9.38	-10.28	-5.42	-7.57	-5.42	-18.86	10.28	37.76	37.64
750	9.39	-10.27	-5.45	-7.6	-5.45	-19.38	10.27	37.77	37.66
760	9.66	-10.15	-5.42	-7.57	-5.42	-19.74	10.15	37.93	37.81
770	8.77	-10.57	-5.75	-7.9	-5.75	-20.27	10.57	37.24	37.1
780	10.39	-9.83	-4.98	-7.13	-4.98	-19.58	9.83	37.19	37.03
790	11.89	-9.25	-4.49	-6.64	-4.49	-19.34	9.25	37.73	37.56
800	12.45	-9.05	-4.46	-6.61	-4.46	-19.37	9.05	37.94	37.73
810	11.59	-9.36	-4.99	-7.14	-4.99	-19.4	9.36	37.96	37.73
820	11.33	-9.46	-4.98	-7.13	-4.98	-20.98	9.46	38.16	37.9
830	10.19	-9.92	-5.49	-7.64	-5.49	-25.25	9.92	38.49	38.22
840	10.46	-9.8	-5.49	-7.64	-5.49	-30.75	9.8	38.52	38.25
850	10.99	-9.59	-5.39	-7.54	-5.39	-30.04	9.59	38.8	38.54
860	10.83	-9.65	-5.62	-7.77	-5.62	-27.59	9.65	39.07	38.78
870	12.02	-9.2	-5.25	-7.4	-5.25	-25.38	9.2	39.12	38.77
880	12.74	-8.95	-4.89	-7.04	-4.89	-24.56	8.95	39.36	38.96
890	13.68	-8.64	-4.38	-6.53	-4.38	-22.43	8.64	39.65	39.24
900	13.16	-8.81	-4.47	-6.62	-4.47	-21.34	8.81	39.83	39.42
910	12.65	-8.98	-4.52	-6.67	-4.52	-21.28	8.98	40.07	39.66
920	11.46	-9.41	-4.51	-6.66	-4.51	-22.47	9.41	40.27	39.84
930	11.74	-9.3	-3.83	-5.98	-3.83	-23.62	9.3	40.25	39.72
940	11.67	-9.33	-3.31	-5.46	-3.31	-24.63	9.33	40.32	39.64
950	13.12	-8.82	-2.46	-4.61	-2.46	-24.84	8.82	40.43	39.66
960	15.27	-8.16	-1.66	-3.81	-1.66	-26.33	8.16	40.19	39.43
1700	40.72	-3.9	1.75	-0.4	1.75	-23.66	3.9	42.91	42.83
1710	39.54	-4.03	1.54	-0.61	1.54	-24.51	4.03	42.93	42.83
1720	36.97	-4.32	1.14	-1.01	1.14	-22.61	4.32	42.39	42.21
1730	36.11	-4.42	0.98	-1.17	0.98	-21.25	4.42	42.54	42.32
1740	46.54	-3.32	2.2	0.05	2.2	-18.03	3.32	43.04	42.83
1750	47.51	-3.23	2.33	0.18	2.33	-17.88	3.23	43.34	43.13
1760	50.45	-2.97	2.62	0.47	2.62	-18.28	2.97	43.47	43.24
1770	51.89	-2.85	2.81	0.66	2.81	-17.57	2.85	43.46	43.23
1780	52.27	-2.82	3.03	0.88	3.03	-20.53	2.82	43.43	43.19
1790	49.37	-3.07	2.95	0.8	2.95	-23.34	3.07	43.24	42.93
1800	49.54	-3.05	3.01	0.86	3.01	-18.28	3.05	43.22	42.83
1810	56.58	-2.47	3.53	1.38	3.53	-16.21	2.47	43.51	43.1

1820	52.22	-2.82	3.14	0.99	3.14	-15.76	2.82	43.48	43.11
1830	57.97	-2.37	3.59	1.44	3.59	-14.56	2.37	43.51	43.14
1840	57.34	-2.42	3.5	1.35	3.5	-16.3	2.42	43.51	43.17
1850	60.64	-2.17	3.66	1.51	3.66	-17.23	2.17	43.63	43.35
1860	63.98	-1.94	3.79	1.64	3.79	-16.15	1.94	43.69	43.39
1870	59.47	-2.26	3.39	1.24	3.39	-14.66	2.26	43.56	43.27
1880	61.89	-2.08	3.48	1.33	3.48	-12.87	2.08	43.65	43.38
1890	63.11	-2	3.45	1.3	3.45	-13.57	2	43.67	43.34
1900	63.62	-1.96	3.42	1.27	3.42	-14.49	1.96	43.64	43.41
1910	62.45	-2.04	3.29	1.14	3.29	-15.52	2.04	43.69	43.44
1920	64.77	-1.89	3.46	1.31	3.46	-15.77	1.89	43.79	43.57
1930	64.23	-1.92	3.45	1.3	3.45	-15.59	1.92	43.89	43.65
1940	59.67	-2.24	3.17	1.02	3.17	-15.38	2.24	43.87	43.66
1950	59.6	-2.25	3.28	1.13	3.28	-15.24	2.25	43.95	43.7
1960	57.15	-2.43	3.24	1.09	3.24	-16.71	2.43	43.94	43.69
1970	58.1	-2.36	3.51	1.36	3.51	-17.51	2.36	44.09	43.96
1980	57.77	-2.38	3.66	1.51	3.66	-17.38	2.38	44.17	43.95
1990	58.01	-2.37	3.78	1.63	3.78	-18.03	2.37	44.2	44.06
2000	61.2	-2.13	4.02	1.87	4.02	-20.06	2.13	44.57	44.42
2010	62.69	-2.03	4.12	1.97	4.12	-20.29	2.03	44.69	44.52
2020	65.05	-1.87	4.29	2.14	4.29	-17.99	1.87	44.86	44.78
2030	65.97	-1.81	4.35	2.2	4.35	-15.59	1.81	45.04	44.98
2040	67.96	-1.68	4.44	2.29	4.44	-14.82	1.68	45.12	45.07
2050	64.78	-1.89	4.14	1.99	4.14	-15.23	1.89	45.01	44.95
2060	68.45	-1.65	4.29	2.14	4.29	-14.81	1.65	45.26	45.2
2070	66.24	-1.79	4.03	1.88	4.03	-14.57	1.79	45.22	45.06
2080	66.78	-1.75	3.94	1.79	3.94	-14.04	1.75	45.28	45.12
2090	69.23	-1.6	3.98	1.83	3.98	-13.52	1.6	45.5	45.36
2100	72.7	-1.38	4.15	2	4.15	-14.14	1.38	45.71	45.51
2110	51.42	-2.89	2.71	0.56	2.71	-16.47	2.89	44.31	44.12
2120	49.7	-3.04	2.65	0.5	2.65	-16.68	3.04	44.53	44.39
2130	52.05	-2.84	2.93	0.78	2.93	-16.85	2.84	44.47	44.28
2140	50.3	-2.98	2.75	0.6	2.75	-17.08	2.98	44.41	44.26
2150	45.71	-3.4	2.17	0.02	2.17	-16.43	3.4	44.38	44.31
2160	51.26	-2.9	2.35	0.2	2.35	-14.74	2.9	44.5	44.39
2170	49.96	-3.01	1.91	-0.24	1.91	-14.06	3.01	44.74	44.7
2180	53.6	-2.71	2.04	-0.11	2.04	-13.46	2.71	44.71	44.69
2190	58.24	-2.35	2.41	0.26	2.41	-13.23	2.35	45	44.95
2200	58.03	-2.36	2.49	0.34	2.49	-13.08	2.36	45.09	45.01
2210	60.75	-2.16	2.73	0.58	2.73	-12.6	2.16	45.12	45.08
2220	59.36	-2.27	2.59	0.44	2.59	-13.81	2.27	45.26	45.2
2230	60.08	-2.21	2.54	0.39	2.54	-14.97	2.21	45.26	45.17
2240	60.22	-2.2	2.36	0.21	2.36	-16.49	2.2	45.48	45.44
2250	59.99	-2.22	2.17	0.02	2.17	-19.68	2.22	45.26	45.18

2260	59.58	-2.25	2.09	-0.06	2.09	-22.95	2.25	45.38	45.33
2270	61.14	-2.14	2.41	0.26	2.41	-22.98	2.14	45.65	45.67
2280	61.78	-2.09	2.53	0.38	2.53	-20.06	2.09	45.53	45.52
2290	62.35	-2.05	2.55	0.4	2.55	-18.35	2.05	45.9	45.86
2300	63.44	-1.98	2.68	0.53	2.68	-17	1.98	45.79	45.81
2310	65.32	-1.85	2.95	0.8	2.95	-17.73	1.85	45.95	45.82
2320	64.86	-1.88	3.16	1.01	3.16	-18.07	1.88	45.96	45.9
2330	66.37	-1.78	3.57	1.42	3.57	-16.96	1.78	46.17	46.12
2340	67.48	-1.71	3.9	1.75	3.9	-15.37	1.71	46.36	46.27
2350	65.65	-1.83	3.98	1.83	3.98	-14.83	1.83	46.31	46.27
2360	65.39	-1.85	4.08	1.93	4.08	-15.46	1.85	46.38	46.32
2370	64.11	-1.93	4.11	1.96	4.11	-16.12	1.93	46.32	46.3
2380	64.59	-1.9	4.25	2.1	4.25	-16.18	1.9	46.45	46.33
2390	64.71	-1.89	4.32	2.17	4.32	-15.24	1.89	46.66	46.66
2400	66.4	-1.78	4.47	2.32	4.47	-14.31	1.78	46.78	46.66
2410	65.07	-1.87	4.35	2.2	4.35	-16.05	1.87	46.54	46.47
2420	65.48	-1.84	4.32	2.17	4.32	-17.42	1.84	46.78	46.77
2430	65.84	-1.81	4.32	2.17	4.32	-19.03	1.81	46.65	46.52
2440	64.95	-1.87	4.24	2.09	4.24	-21.48	1.87	46.79	46.73
2450	66.42	-1.78	4.31	2.16	4.31	-23.77	1.78	46.92	46.83
2460	66.77	-1.75	4.3	2.15	4.3	-24.73	1.75	47.02	46.93
2470	64.46	-1.91	4.12	1.97	4.12	-22.41	1.91	46.82	46.7
2480	67.25	-1.72	4.34	2.19	4.34	-19.06	1.72	47.15	47.03
2490	70.68	-1.51	4.61	2.46	4.61	-16.63	1.51	47.25	47.04
2500	66.42	-1.78	4.4	2.25	4.4	-15.88	1.78	47.08	46.9
2510	64.53	-1.9	4.28	2.13	4.28	-16.16	1.9	47.12	46.99
2520	63.26	-1.99	4.15	2	4.15	-17.61	1.99	46.86	46.73
2530	63.38	-1.98	4.09	1.94	4.09	-17.42	1.98	46.86	46.77
2540	61.5	-2.11	3.94	1.79	3.94	-17.06	2.11	46.67	46.65
2550	60.94	-2.15	3.98	1.83	3.98	-16.61	2.15	46.89	46.85
2560	60.44	-2.19	4.08	1.93	4.08	-17.02	2.19	46.64	46.58
2570	60.21	-2.2	4.17	2.02	4.17	-17.94	2.2	46.93	46.95
2580	61.03	-2.14	4.32	2.17	4.32	-18.9	2.14	46.92	46.77
2590	54.9	-2.6	3.95	1.8	3.95	-18.88	2.6	46.68	46.61
2600	57.41	-2.41	4.2	2.05	4.2	-16.87	2.41	47.08	46.99
2610	58.14	-2.35	4.27	2.12	4.27	-15.06	2.35	46.94	46.85
2620	51.64	-2.87	3.68	1.53	3.68	-14.52	2.87	46.88	46.79
2630	56.93	-2.45	3.95	1.8	3.95	-13.99	2.45	47.1	47.01
2640	59.08	-2.29	4.02	1.87	4.02	-15.12	2.29	47.49	47.35
2650	62.08	-2.07	4.25	2.1	4.25	-16.12	2.07	47.39	47.27
2660	66.62	-1.76	4.67	2.52	4.67	-17.93	1.76	47.66	47.54
2670	64.96	-1.87	4.66	2.51	4.66	-19.9	1.87	47.76	47.6
2680	66.84	-1.75	4.82	2.67	4.82	-20.51	1.75	47.81	47.7
2690	63.15	-2	4.52	2.37	4.52	-20.31	2	47.82	47.71



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 80 °C the 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.