

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:



Catalogue

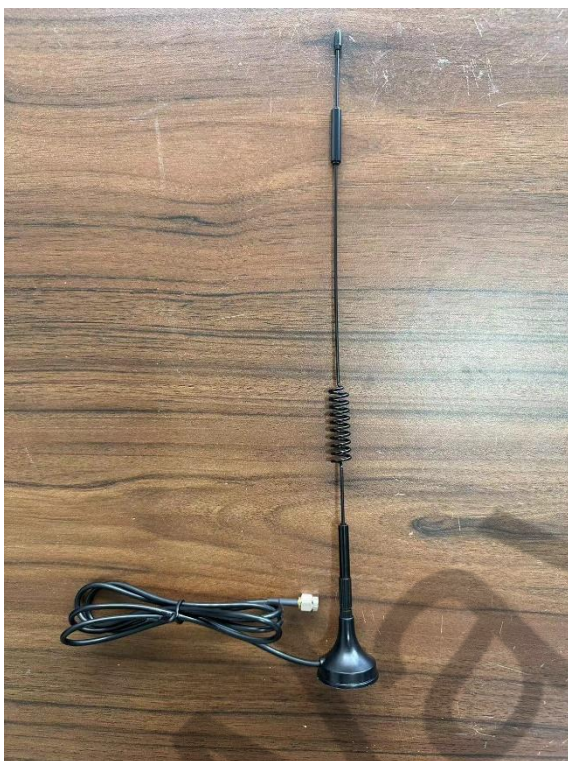
1	Product Description	3
2	Product Features	3
3	Product Specifications	3
4	Overall Performance	4
5	Product Size	10
6	Others	11

1 Product Description

This wavelink 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	698-960/1710-2690MHz
Input Impedance	50 Ω
VSWR	≤ 4
Gain	≤ 4 dBi

Polarization Type Linear

Mechanical Specifications

Antenna Size 318 mm × 29 mm

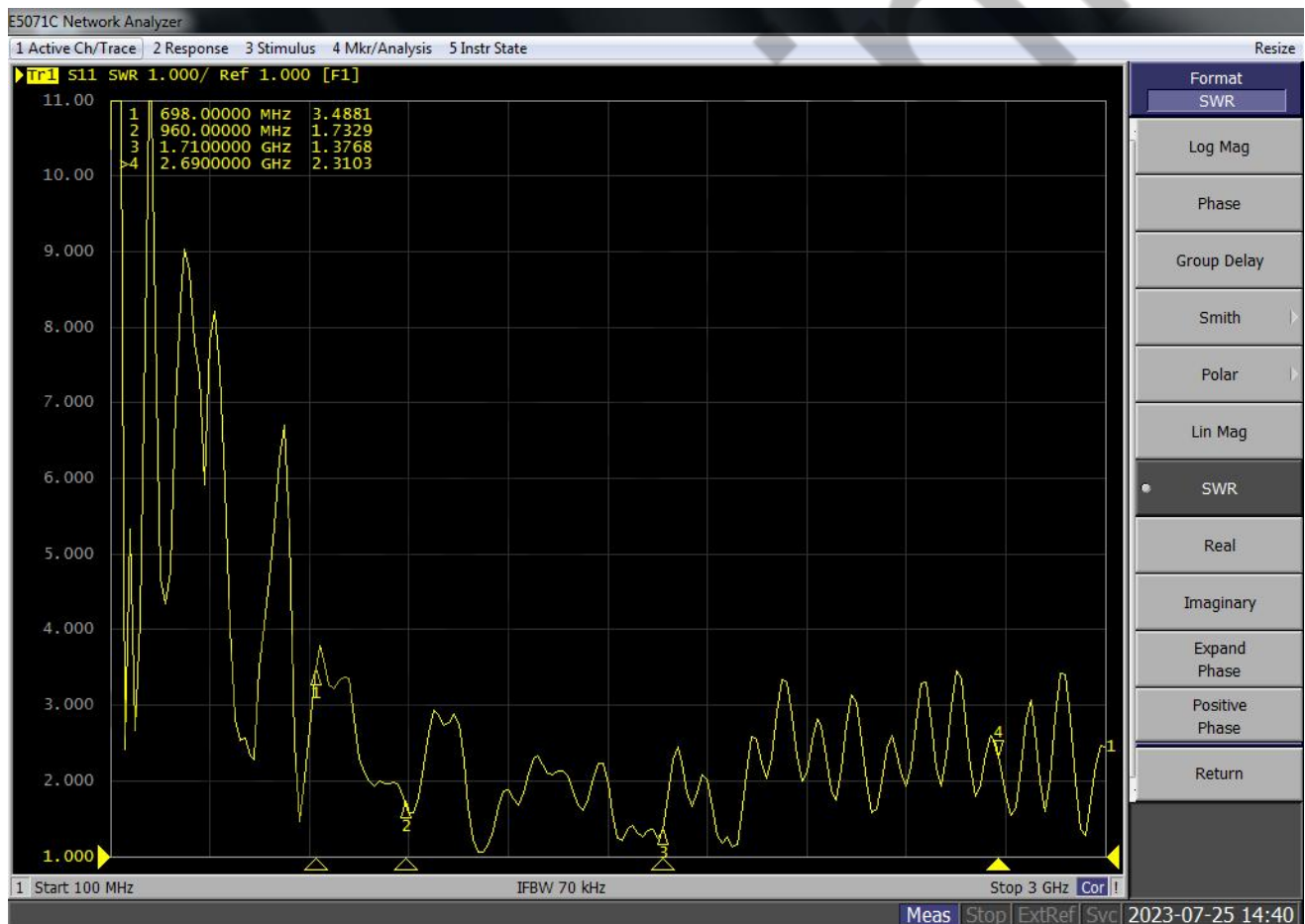
Connector Type SMA

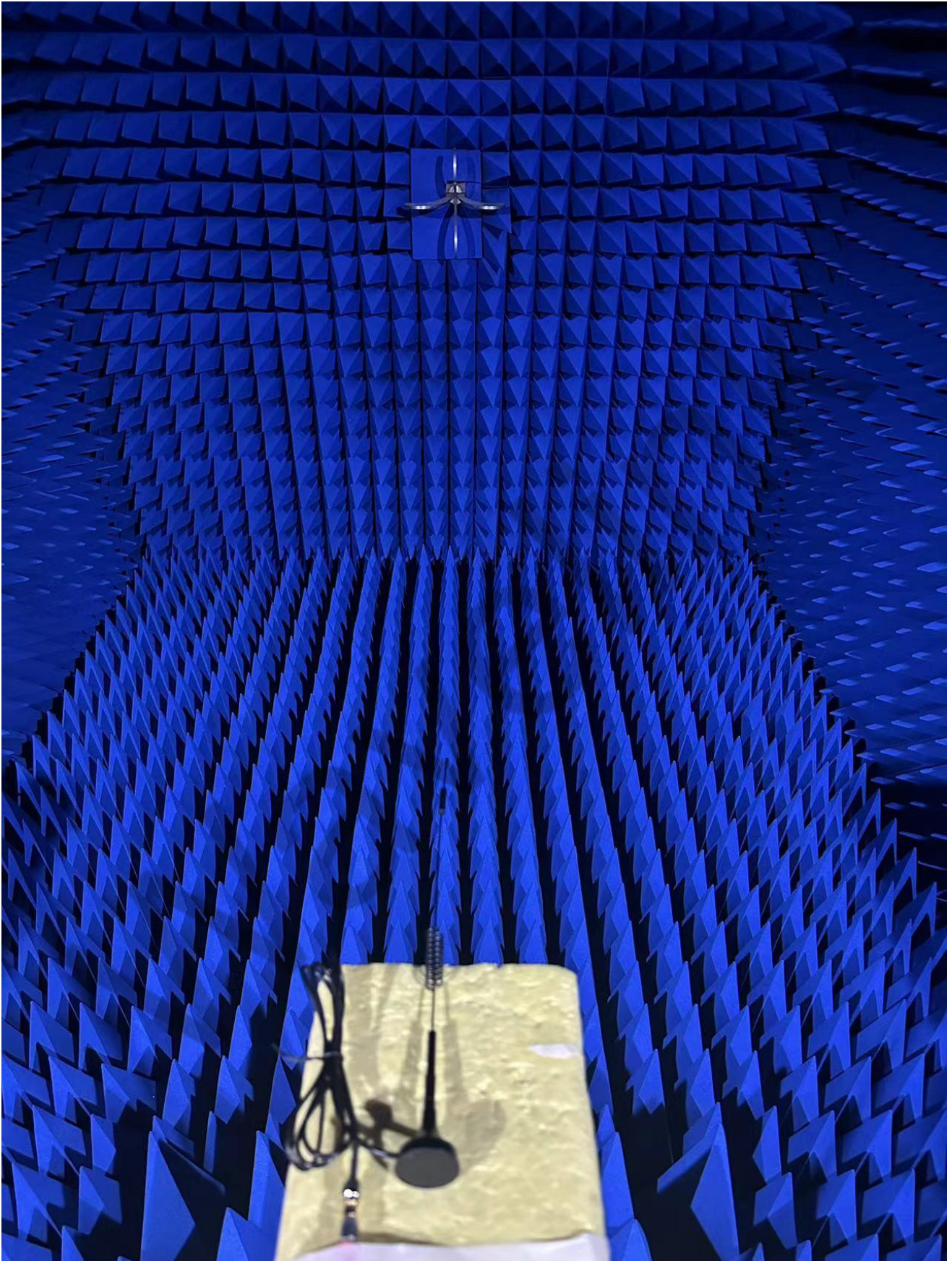
Working Temperature -40 °C to +85 °C

Radome Color Black

4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

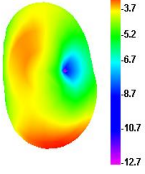
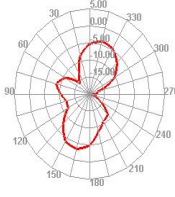
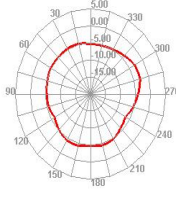
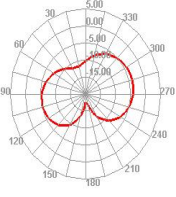
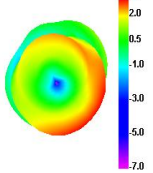
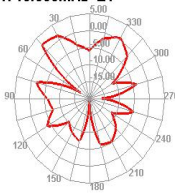
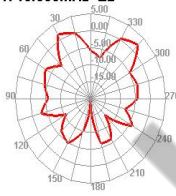
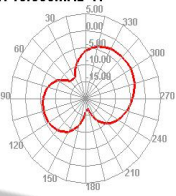




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	28.95	-5.38	-1.46	-3.61	-1.46	-21.45	3.93	38.53	38.68
700	21.44	-6.69	-2.73	-4.88	-2.73	-23	3.96	37.89	38.25
710	18.44	-7.34	-3.29	-5.44	-3.29	-24.81	4.06	37.57	38
720	16.42	-7.85	-3.72	-5.87	-3.72	-25.77	4.13	37.6	38.21
730	15.81	-8.01	-3.72	-5.87	-3.72	-22.98	4.29	37.27	37.8
740	17.58	-7.55	-3.2	-5.35	-3.2	-22.78	4.35	37.38	37.88
750	17.66	-7.53	-3.21	-5.36	-3.21	-23.53	4.32	37.14	37.57
760	19.48	-7.1	-2.76	-4.91	-2.76	-23.15	4.34	37.12	37.52
770	20.22	-6.94	-2.84	-4.99	-2.84	-21.88	4.11	37.09	37.51
780	18.96	-7.22	-3.19	-5.34	-3.19	-21.15	4.04	36.9	37.29
790	20.92	-6.79	-2.78	-4.93	-2.78	-20	4.02	37.23	37.62
800	26.45	-5.78	-1.36	-3.51	-1.36	-17.24	4.42	37.26	37.51
810	35.47	-4.5	-0.02	-2.17	-0.02	-22.15	4.48	37.83	38
820	38.6	-4.13	0.01	-2.14	0.01	-20.47	4.15	37.85	37.94
830	36.82	-4.34	-0.26	-2.41	-0.26	-16.12	4.08	38.15	38.16
840	29.07	-5.37	-1.45	-3.6	-1.45	-17.13	3.92	37.86	37.89
850	28.01	-5.53	-1.77	-3.92	-1.77	-18.63	3.75	38.03	38.03
860	32.1	-4.93	-1.07	-3.22	-1.07	-24.68	3.86	38.44	38.49
870	28.65	-5.43	-1.24	-3.39	-1.24	-27.26	4.18	38.5	38.51
880	26.11	-5.83	-1.45	-3.6	-1.45	-21.35	4.38	38.94	38.94
890	30.42	-5.17	-0.79	-2.94	-0.79	-18.42	4.38	39.35	39.34
900	27.75	-5.57	-1.18	-3.33	-1.18	-19	4.39	39.58	39.47
910	31.41	-5.03	-1.09	-3.24	-1.09	-19.41	3.94	39.99	39.88
920	35.51	-4.5	-0.99	-3.14	-0.99	-22.94	3.51	40.09	39.99
930	40.69	-3.9	-0.34	-2.49	-0.34	-25.45	3.57	40.38	40.24
940	44.63	-3.5	0.46	-1.69	0.46	-23.58	3.96	40.48	40.32
950	49.13	-3.09	1.32	-0.83	1.32	-20.89	4.41	40.54	40.26
960	51.91	-2.85	1.86	-0.29	1.86	-19.18	4.7	40.35	40.05
1710	41.33	-3.84	3.01	0.86	3.01	-19.35	6.85	42.51	42.6
1720	37.31	-4.28	2.32	0.17	2.32	-26.03	6.6	42.3	42.37
1730	32.59	-4.87	1.22	-0.93	1.22	-25.38	6.09	42.18	42.31
1740	35.37	-4.51	0.99	-1.16	0.99	-24.64	5.5	42.72	42.91
1750	32.15	-4.93	0.03	-2.12	0.03	-22.13	4.95	42.79	42.92
1760	30.34	-5.18	-0.45	-2.6	-0.45	-22.69	4.73	42.86	42.98
1770	33.69	-4.72	-0.03	-2.18	-0.03	-25.06	4.69	43.02	43.04
1780	34.65	-4.6	0.3	-1.85	0.3	-27.36	4.9	42.98	43.06
1790	33	-4.82	0.23	-1.92	0.23	-24.35	5.04	42.76	42.84
1800	33.87	-4.7	0.22	-1.93	0.22	-26.59	4.92	42.81	42.93
1810	35.63	-4.48	0.24	-1.91	0.24	-25.69	4.72	43	43.16
1820	32.09	-4.94	-0.09	-2.24	-0.09	-23.5	4.84	43	43.08
1830	33.1	-4.8	-0.02	-2.17	-0.02	-20.98	4.79	43.11	43.15

1840	38.32	-4.17	0.8	-1.35	0.8	-22.36	4.96	43.37	43.29
1850	41.71	-3.8	1.53	-0.62	1.53	-18.9	5.33	43.43	43.3
1860	44.84	-3.48	2.25	0.1	2.25	-18.4	5.74	43.52	43.39
1870	49.53	-3.05	2.88	0.73	2.88	-22.08	5.93	43.59	43.44
1880	50.07	-3	3.12	0.97	3.12	-25.99	6.12	43.56	43.41
1890	48.45	-3.15	3.1	0.95	3.1	-26.47	6.25	43.44	43.28
1900	48.94	-3.1	3.3	1.15	3.3	-23.98	6.4	43.48	43.31
1910	48.67	-3.13	3.39	1.24	3.39	-28.01	6.52	43.49	43.25
1920	49.48	-3.06	3.6	1.45	3.6	-31.91	6.66	43.65	43.53
1930	49.78	-3.03	3.71	1.56	3.71	-35.56	6.74	43.86	43.7
1940	44.58	-3.51	3.22	1.07	3.22	-32.59	6.73	43.68	43.58
1950	41.27	-3.84	2.84	0.69	2.84	-27.92	6.68	43.79	43.72
1960	34.46	-4.63	1.82	-0.33	1.82	-24.77	6.45	43.53	43.42
1970	28.01	-5.53	0.58	-1.57	0.58	-23.57	6.1	43.83	43.73
1980	24.71	-6.07	0.16	-1.99	0.16	-23.32	6.23	43.62	43.59
1990	23.44	-6.3	0.19	-1.96	0.19	-23.24	6.49	43.91	43.87
2000	23.12	-6.36	0.33	-1.82	0.33	-22.93	6.69	44.12	44.14
2010	22.83	-6.41	0.42	-1.73	0.42	-23.89	6.83	44.44	44.55
2020	25.39	-5.95	0.95	-1.2	0.95	-24.92	6.91	44.64	44.72
2030	22.53	-6.47	0.49	-1.66	0.49	-27.35	6.96	44.64	44.8
2040	20.16	-6.95	0	-2.15	0	-25.55	6.95	44.72	44.84
2050	18.67	-7.29	-0.37	-2.52	-0.37	-26.45	6.92	44.51	44.65
2060	16.7	-7.77	-1.08	-3.23	-1.08	-27.89	6.69	44.65	44.76
2070	17.01	-7.69	-1.22	-3.37	-1.22	-20.15	6.47	44.64	44.73
2080	17.42	-7.59	-1.35	-3.5	-1.35	-19.67	6.24	44.59	44.78
2090	19.35	-7.13	-1.11	-3.26	-1.11	-19.83	6.02	44.67	44.86
2100	21.67	-6.64	-0.79	-2.94	-0.79	-21.5	5.85	44.78	45.02
2110	26.59	-5.75	-0.08	-2.23	-0.08	-22.52	5.67	44.93	45.11
2120	25.54	-5.93	-0.35	-2.5	-0.35	-22.47	5.58	44.91	45.07
2130	27.31	-5.64	-0.13	-2.28	-0.13	-22.45	5.51	44.92	44.99
2140	28	-5.53	0.04	-2.11	0.04	-24.42	5.57	45	45.1
2150	26.81	-5.72	0.3	-1.85	0.3	-25.34	6.02	44.94	45.03
2160	28.5	-5.45	0.8	-1.35	0.8	-24.9	6.25	44.91	44.97
2170	30.53	-5.15	1.11	-1.04	1.11	-23.06	6.26	45.05	45.22
2180	32.37	-4.9	1.38	-0.77	1.38	-21.47	6.28	45.05	45.21
2190	33.94	-4.69	1.8	-0.35	1.8	-24.12	6.49	45.24	45.4
2200	32.39	-4.9	1.63	-0.52	1.63	-25.7	6.52	45.02	45.25
2210	34.66	-4.6	1.78	-0.37	1.78	-27.36	6.38	45.4	45.56
2220	29.91	-5.24	0.95	-1.2	0.95	-36.34	6.19	45	45.18
2230	28.98	-5.38	0.87	-1.28	0.87	-30.61	6.25	45.17	45.41
2240	30.42	-5.17	1.11	-1.04	1.11	-24.4	6.28	45.38	45.49
2250	25.45	-5.94	0.28	-1.87	0.28	-23.99	6.22	45.24	45.37
2260	25.25	-5.98	-0.04	-2.19	-0.04	-26.25	5.93	45.42	45.5
2270	25.06	-6.01	-0.46	-2.61	-0.46	-28.91	5.55	45.34	45.39

2280	24.28	-6.15	-0.49	-2.64	-0.49	-29.53	5.66	45.48	45.57
2290	25.66	-5.91	0.06	-2.09	0.06	-30.63	5.96	45.46	45.59
2300	27.47	-5.61	0.63	-1.52	0.63	-29.55	6.24	45.56	45.68
2310	30.38	-5.17	1.22	-0.93	1.22	-32.72	6.4	45.63	45.72
2320	31.67	-4.99	1.51	-0.64	1.51	-26.55	6.5	45.66	45.8
2330	33.62	-4.73	1.82	-0.33	1.82	-26.79	6.56	45.75	45.81
2340	33.62	-4.73	1.88	-0.27	1.88	-30.96	6.61	45.99	46.12
2350	32.25	-4.91	1.72	-0.43	1.72	-26.94	6.63	46.09	46.16
2360	30.74	-5.12	1.5	-0.65	1.5	-26.75	6.62	46.16	46.34
2370	24.47	-6.11	0.45	-1.7	0.45	-28.21	6.56	45.96	46.11
2380	24.51	-6.11	0.37	-1.78	0.37	-26.63	6.47	46.16	46.3
2390	23.26	-6.33	0.17	-1.98	0.17	-27.29	6.5	46.22	46.48
2400	22.68	-6.44	0.14	-2.01	0.14	-27.32	6.58	46.35	46.49
2410	22.34	-6.51	0.03	-2.12	0.03	-28.19	6.54	46.44	46.63
2420	21.64	-6.65	-0.29	-2.44	-0.29	-25.5	6.36	46.12	46.29
2430	21.03	-6.77	-0.69	-2.84	-0.69	-24.88	6.08	46.47	46.6
2440	19.29	-7.15	-1.38	-3.53	-1.38	-27.52	5.76	46.57	46.61
2450	19.17	-7.17	-1.25	-3.4	-1.25	-29.78	5.92	46.91	47.07
2460	18.33	-7.37	-1.28	-3.43	-1.28	-29.64	6.09	47.02	47.09
2470	17.75	-7.51	-1.16	-3.31	-1.16	-26.02	6.34	46.72	46.83
2480	18.15	-7.41	-0.95	-3.1	-0.95	-23.14	6.46	47.29	47.47
2490	19.23	-7.16	-0.79	-2.94	-0.79	-20.89	6.37	46.86	46.93
2500	20.03	-6.98	-0.88	-3.03	-0.88	-19.4	6.11	47.15	47.32
2510	20.35	-6.91	-1.37	-3.52	-1.37	-17.97	5.54	47.09	47.16
2520	20.64	-6.85	-1.81	-3.96	-1.81	-17.14	5.04	46.74	46.87
2530	21.18	-6.74	-1.46	-3.61	-1.46	-16.48	5.28	46.94	46.98
2540	19.51	-7.1	-1.59	-3.74	-1.59	-16.44	5.51	46.8	46.86
2550	19.96	-7	-1.34	-3.49	-1.34	-16.4	5.66	47.06	47.12
2560	18.29	-7.38	-1.65	-3.8	-1.65	-16.88	5.73	47.06	47.11
2570	16.45	-7.84	-2.19	-4.34	-2.19	-17.07	5.65	47.16	47.2
2580	16.46	-7.84	-2.45	-4.6	-2.45	-16.94	5.39	47.05	47.11
2590	15.71	-8.04	-2.98	-5.13	-2.98	-16.87	5.05	47.1	47.15
2600	18.53	-7.32	-2.68	-4.83	-2.68	-16.09	4.64	47.16	47.23
2610	21.14	-6.75	-2.42	-4.57	-2.42	-15.31	4.33	47.23	47.34
2620	25.53	-5.93	-1.55	-3.7	-1.55	-15.71	4.38	47.52	47.56
2630	27.15	-5.66	-1.24	-3.39	-1.24	-17.05	4.42	47.51	47.54
2640	28.69	-5.42	-0.83	-2.98	-0.83	-18.28	4.59	47.43	47.5
2650	27.2	-5.65	-0.68	-2.83	-0.68	-18.13	4.97	47.52	47.63
2660	24.84	-6.05	-0.71	-2.86	-0.71	-18.76	5.34	47.23	47.27
2670	27.26	-5.64	-0.02	-2.17	-0.02	-21.35	5.62	47.42	47.61
2680	27.34	-5.63	0.13	-2.02	0.13	-25.43	5.76	47.48	47.55
2690	29.3	-5.33	0.39	-1.76	0.39	-27.57	5.72	47.37	47.52

Frequency	3D	E1	E2	H
700MHz	700.000MHz 	700.000MHz E1 	700.000MHz E2 	700.000MHz H 
1710MHz	1710.000MHz 	1710.000MHz E1 	1710.000MHz E2 	1710.000MHz 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 8the 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.