

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

Catalogue

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Wavelink

1 Product Description

This wavelink antenna covers GSM.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	824-960 MHz 1710-2170MHz
Input Impedance	50 Ω

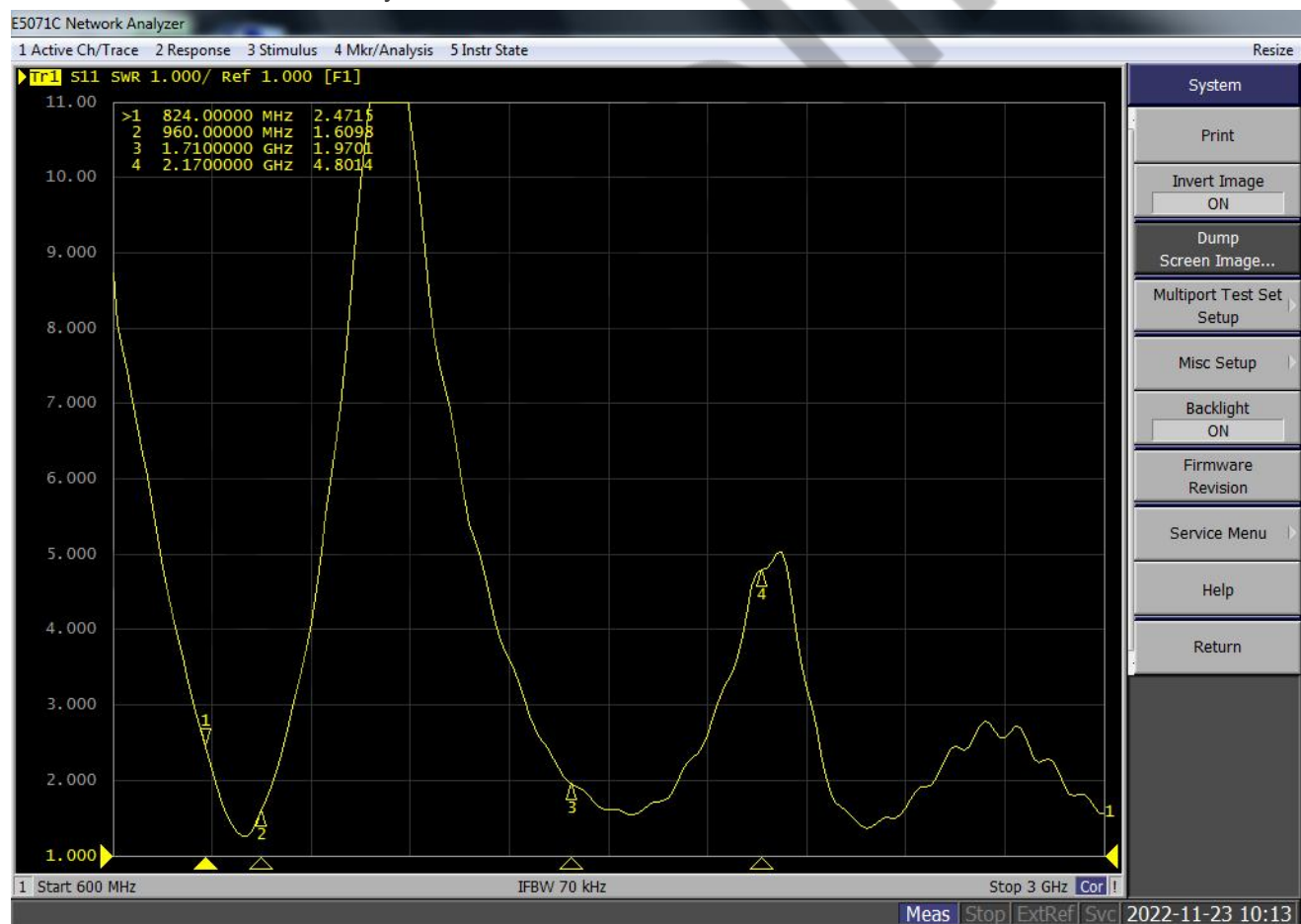
VSWR	≤ 4
Gain	≤ 3 dBi
Polarization Type	Linear

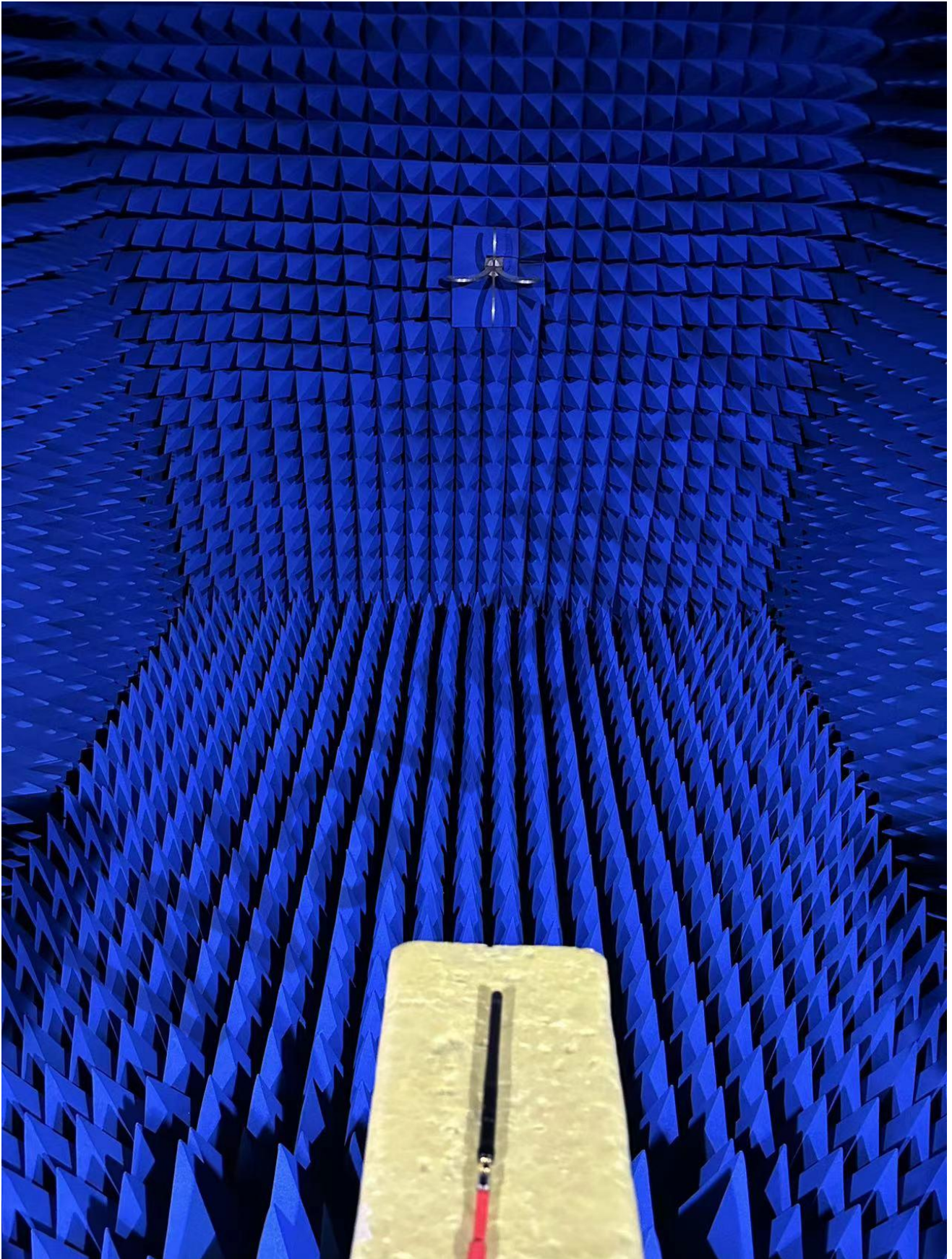
Mechanical Specifications

Antenna Size	108mm × 10mm
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

4 Overall Performance

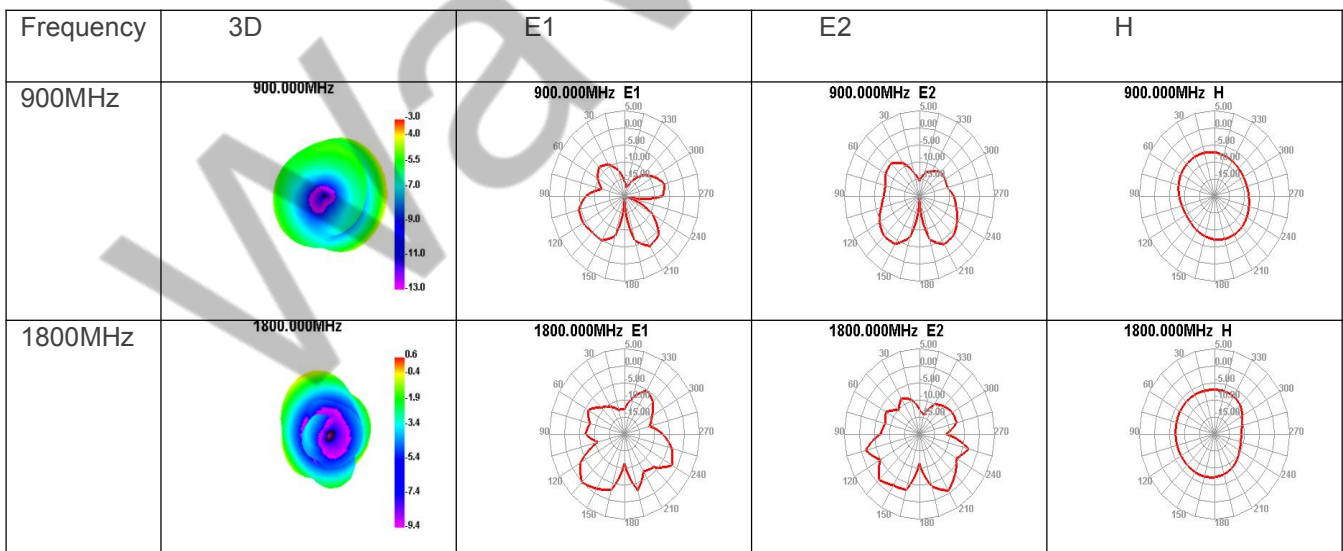
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



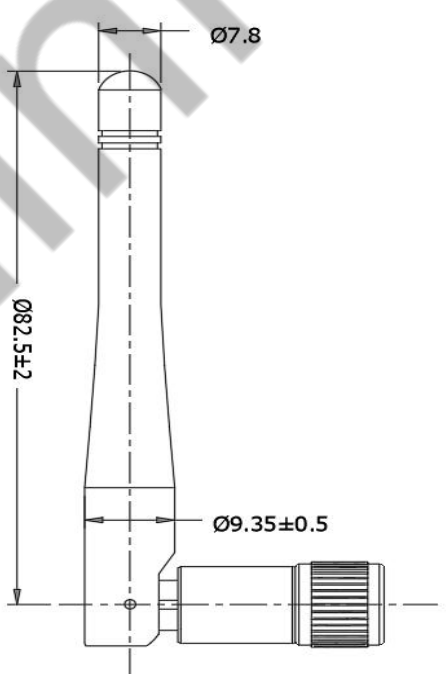
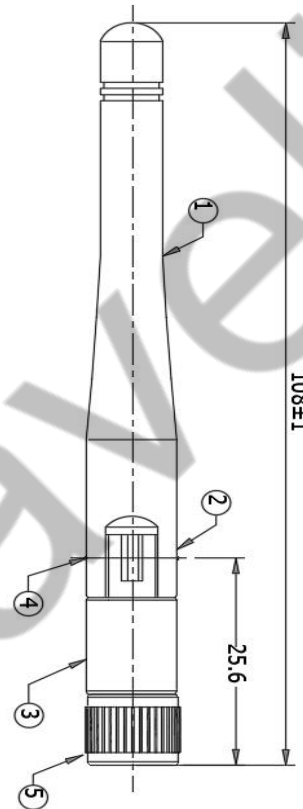


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
820	10.12	-9.95	-6.21	-8.36	-6.21	-27.3	3.74	37.56	37.65
830	11.73	-9.31	-5.65	-7.8	-5.65	-24.45	3.66	38.01	38.02
840	11.18	-9.51	-5.97	-8.12	-5.97	-24.29	3.55	37.66	37.69
850	12.17	-9.15	-5.64	-7.79	-5.64	-23.11	3.5	37.95	37.95
860	14.95	-8.25	-4.72	-6.87	-4.72	-22.41	3.53	38.46	38.51
870	14.99	-8.24	-4.65	-6.8	-4.65	-21.3	3.59	38.56	38.57
880	16.28	-7.88	-4.29	-6.44	-4.29	-21.12	3.59	39.13	39.13
890	20.07	-6.98	-3.24	-5.39	-3.24	-20.09	3.74	39.4	39.39
900	20.02	-6.98	-3.05	-5.2	-3.05	-19.84	3.94	39.82	39.71
910	21.78	-6.62	-2.51	-4.66	-2.51	-20.41	4.11	40.04	39.93
920	22.39	-6.5	-2.27	-4.42	-2.27	-19.43	4.23	40.17	40.07
930	22.39	-6.5	-2.19	-4.34	-2.19	-18.29	4.31	40.36	40.22
940	24.26	-6.15	-1.91	-4.06	-1.91	-18.42	4.24	40.37	40.21
950	24.51	-6.11	-2.05	-4.2	-2.05	-19.01	4.06	40.51	40.23
960	25.85	-5.88	-1.66	-3.81	-1.66	-19.88	4.22	40.26	39.96
1710	24.06	-6.19	-0.89	-3.04	-0.89	-19.88	5.3	42.41	42.5
1720	24.85	-6.05	-0.62	-2.77	-0.62	-17.76	5.42	42.24	42.31
1730	25.18	-5.99	-0.48	-2.63	-0.48	-16.32	5.51	42.06	42.19
1740	28.56	-5.44	0.09	-2.06	0.09	-14.92	5.53	42.71	42.9
1750	30	-5.23	0.35	-1.8	0.35	-14.91	5.58	42.75	42.88
1760	30.7	-5.13	0.56	-1.59	0.56	-14.99	5.69	42.78	42.9
1770	31.97	-4.95	0.78	-1.37	0.78	-15.34	5.73	42.99	43.01
1780	31.84	-4.97	0.82	-1.33	0.82	-15.2	5.79	42.84	42.92
1790	29.08	-5.36	0.43	-1.72	0.43	-14.97	5.8	42.72	42.8
1800	30.08	-5.22	0.65	-1.5	0.65	-14.35	5.86	42.62	42.74
1810	29.47	-5.31	0.56	-1.59	0.56	-14.55	5.86	42.94	43.1
1820	30.78	-5.12	0.8	-1.35	0.8	-14.87	5.92	42.81	42.89
1830	31.13	-5.07	0.85	-1.3	0.85	-15.75	5.92	42.95	42.99
1840	32.28	-4.91	0.99	-1.16	0.99	-16.18	5.9	43.3	43.22
1850	32.08	-4.94	0.96	-1.19	0.96	-16.68	5.9	43.34	43.21
1860	31.16	-5.06	0.82	-1.33	0.82	-16.76	5.88	43.55	43.42
1870	31.56	-5.01	0.86	-1.29	0.86	-16.4	5.87	43.39	43.24
1880	30.29	-5.19	0.62	-1.53	0.62	-16.64	5.8	43.41	43.26
1890	27.21	-5.65	0.23	-1.92	0.23	-17.69	5.88	43.39	43.23
1900	28.95	-5.38	0.49	-1.66	0.49	-18.53	5.87	43.4	43.23
1910	28.09	-5.51	0.39	-1.76	0.39	-20.32	5.91	43.53	43.29
1920	28.88	-5.39	0.51	-1.64	0.51	-21	5.9	43.68	43.56
1930	31.7	-4.99	0.94	-1.21	0.94	-19.74	5.93	43.82	43.66
1940	27.86	-5.55	0.41	-1.74	0.41	-18.8	5.96	43.64	43.54
1950	29.66	-5.28	0.71	-1.44	0.71	-18.78	5.99	43.69	43.62

1960	27.71	-5.57	0.43	-1.72	0.43	-21.23	6.01	43.61	43.5
1970	30.19	-5.2	0.86	-1.29	0.86	-22.71	6.06	43.6	43.5
1980	28.45	-5.46	0.68	-1.47	0.68	-23.25	6.14	43.65	43.62
1990	29.69	-5.27	0.98	-1.17	0.98	-23.73	6.26	43.8	43.76
2000	31.71	-4.99	1.43	-0.72	1.43	-24.92	6.42	44.07	44.09
2010	33.18	-4.79	1.79	-0.36	1.79	-24.86	6.58	44.5	44.61
2020	35.34	-4.52	2.24	0.09	2.24	-22.63	6.75	44.48	44.56
2030	35.06	-4.55	2.36	0.21	2.36	-20.21	6.91	44.6	44.76
2040	32.93	-4.82	2.21	0.06	2.21	-18.34	7.04	44.55	44.67
2050	34.44	-4.63	2.52	0.37	2.52	-16.28	7.15	44.46	44.6
2060	32.49	-4.88	2.35	0.2	2.35	-15.76	7.24	44.56	44.67
2070	34.23	-4.66	2.59	0.44	2.59	-17.5	7.25	44.55	44.64
2080	33.44	-4.76	2.45	0.3	2.45	-20.26	7.21	44.51	44.7
2090	32.58	-4.87	2.21	0.06	2.21	-23.15	7.08	44.47	44.66
2100	32.8	-4.84	2.09	-0.06	2.09	-22.6	6.93	44.59	44.83
2110	30.35	-5.18	1.59	-0.56	1.59	-20.45	6.77	44.8	44.98
2120	33.05	-4.81	1.78	-0.37	1.78	-20.61	6.59	44.86	45.02
2130	30.16	-5.21	1.2	-0.95	1.2	-20.53	6.41	44.83	44.9
2140	26.89	-5.7	0.46	-1.69	0.46	-20.44	6.16	44.8	44.9
2150	24.3	-6.14	-0.28	-2.43	-0.28	-20.33	5.86	44.91	45
2160	21.13	-6.75	-1.26	-3.41	-1.26	-21.78	5.49	44.83	44.89
2170	19.61	-7.08	-2	-4.15	-2	-22.51	5.07	45.01	45.18



5 Product Size

A		B		C		D		E		F		G																											
										REV DATE		DESCRIPTION																											
										2022.3.7																													
Specification: Frequency Range: 900/1800/2100MHz Impedance: 50Ω VSWR: 4.0 max Gain: 3 dBi																																							
																																							
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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.