
SL009TC project cell antenna acknowledgement

1. Overview

This document is the SL009TC project CELL antenna acknowledgement;

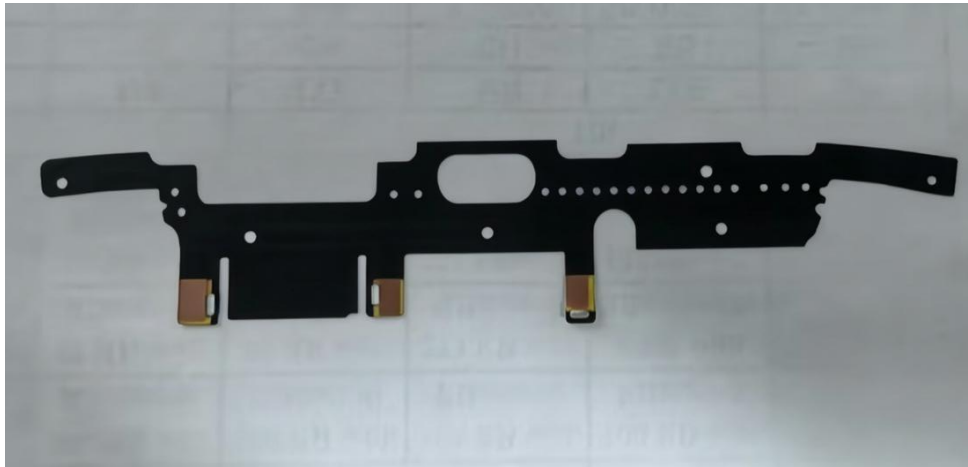
The antenna operates in the frequency band of 610~960MHz; 1710~2200MHz

2. Manufacturere and its address

Company name: Haidemen Electronics Co, Ltd

Address Address: Jinye First Road, Yanta District, Xi'an City, Shaanxi Province

3. The model and type of antenna



ANT0



ANT1

Figure 3.1physical photo

Antenna type: IFA

4. Antenna test environment

4.1 Antenna test lab, test instrument, and calibration date

Antenna input characteristics are tested using the Agilent E5071B vector network analyzer.

The antenna radiation characteristics test uses the GTS 2800 darkroom. The test coordinate system is shown in Figure 4.1.1.

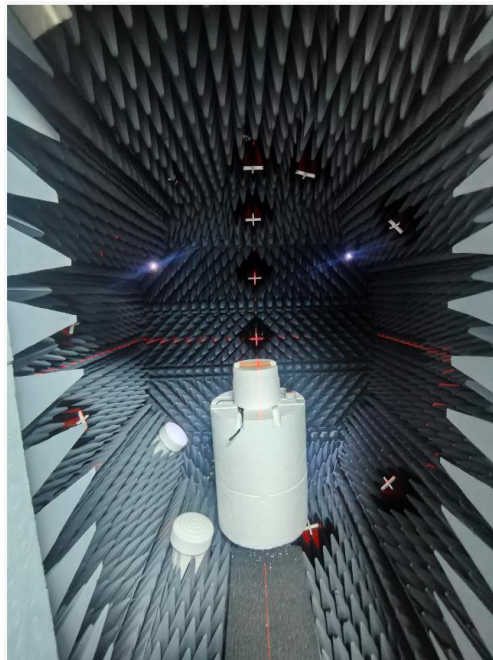


Figure 4.1.1 3D anechoic chamber test coordinate system (back view)

4.2 Antenna test lab, test instrument, and calibration date

The tester uses the Anritsu CMW500.

The antenna radiation characteristics test uses the GTS2800 darkroom. The test coordinate system is shown in Figure 4.2.1.

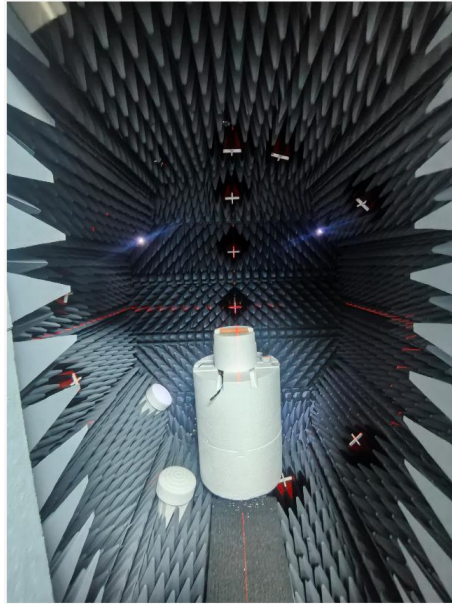


Figure 4.2.1 3D anechoic chamber test coordinate system (back view)

4.3 Antenna test lab, test instrument, and calibration date.

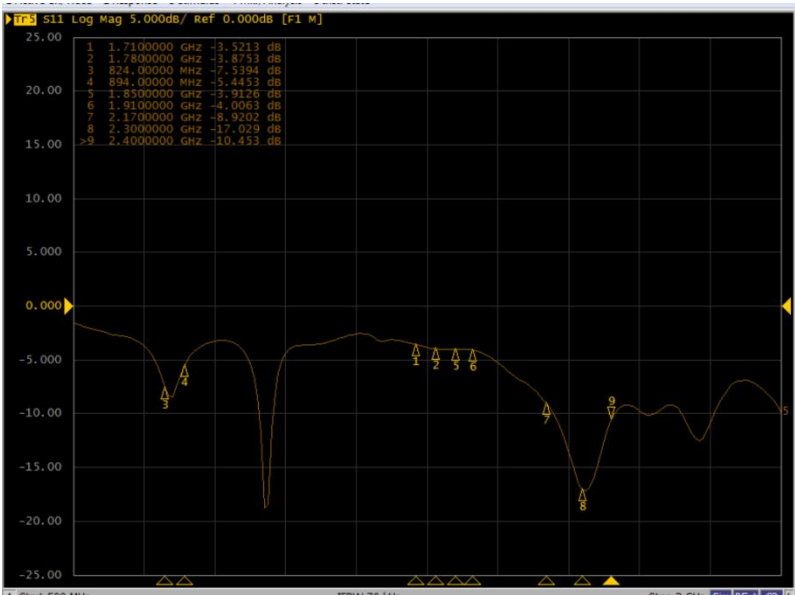


Figure 4.3.1 Dark room physical drawing

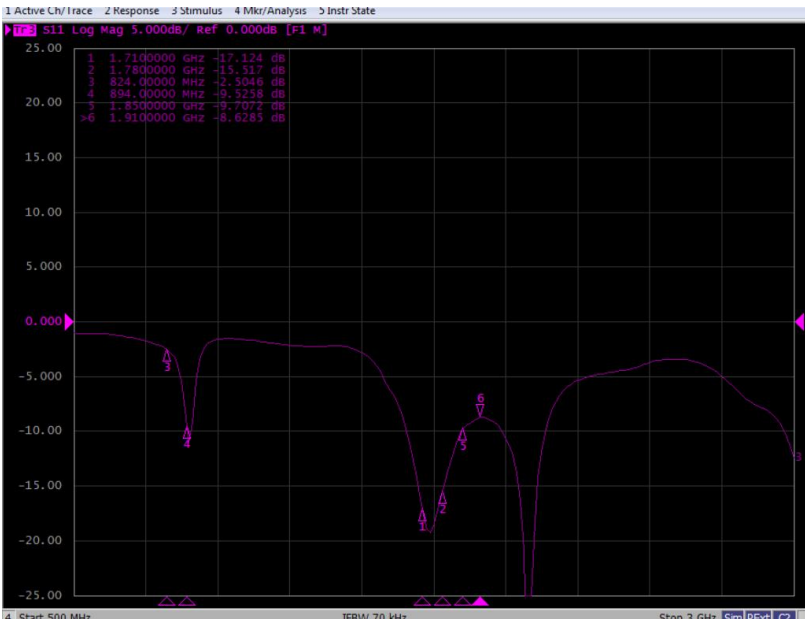
4.3 E5071B/E5071C/E5062A/CWM500 calibration date

Calibration date
2026.07.18

5. Reflection loss



ANT0 S11



ANT1 S11

6. Antenna gain and 2D or 3D Pattern diagram:

ANT	Frequency(MHz)	Efficiency(dB)	Gain(dBi)
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ANT0	620	-7.68	-3.15
	630	-6.96	-2.16
	640	-6.23	-1.73
	650	-6.09	-1.81
	660	-5.77	-1.71
	670	-5.94	-1.70
	680	-6.2	-1.91
	690	-6.63	-2.18
	700	-7.21	-2.51
	710	-5.1	-1.20
	720	-4.9	-1.61
	730	-5.12	-1.29
	740	-5.43	-1.6
	750	-5.08	-1.41
	760	-5.12	-1.58
	770	-4.89	-1.20
	780	-4.9	-1.00
	790	-5.36	-1.24
	800	-5.68	-1.98
	810	-6.48	-2.11
	820	-5.93	-1.90
	830	-5.9	-1.94
	840	-5.83	-1.90
	850	-5.57	-2.05
	860	-6.04	-2.13
	870	-5.8	-2.06
	880	-6.28	-2.37
	890	-6.69	-2.49

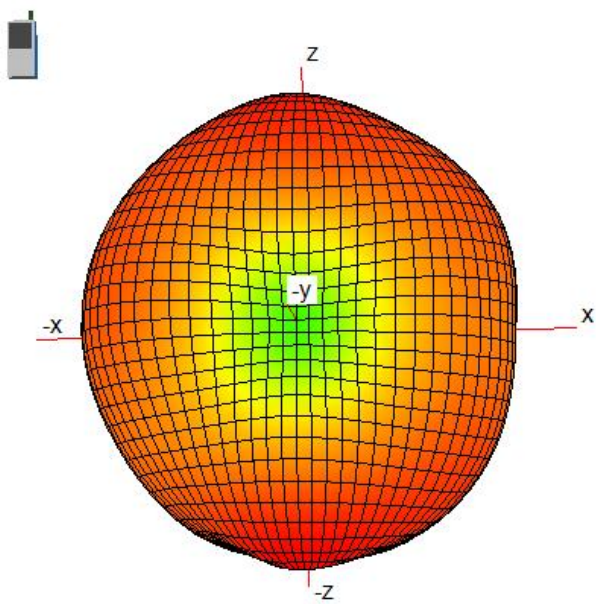
ANT	Frequency(MHz)	Efficiency(dB)	Gain(dBi)
ANT1	820	-7.33	-5.03
	830	-6.96	-4.61
	840	-6.56	-4.50
	850	-6.11	-4.67
	860	-6.35	-4.89
	870	-6.42	-4.92
	880	-7.02	-5.32

	890	-7.85	-5.62
	1700	-5.28	-1.59
	1710	-5.18	-2.62
	1720	-5.23	-2.35
	1730	-5.04	-2.22
	1740	-5.11	-2.33
	1750	-4.99	-1.60
	1760	-4.92	-1.61
	1770	-4.98	-1.78
	1780	-4.81	-1.74
	1790	-4.84	-0.63
	1800	-4.82	-0.48
	1810	-4.74	-0.33
	1820	-4.78	-0.38
	1830	-4.78	-0.44
	1840	-4.86	-0.53
	1850	-5.02	-0.63
	1860	-5.12	-0.45
	1870	-5.38	-0.33
	1880	-5.61	-0.33
	1890	-5.72	-0.39
	1900	-5.78	-0.30
	1910	-5.76	-0.30
	1920	-5.7	-0.34
	1930	-5.82	-0.32

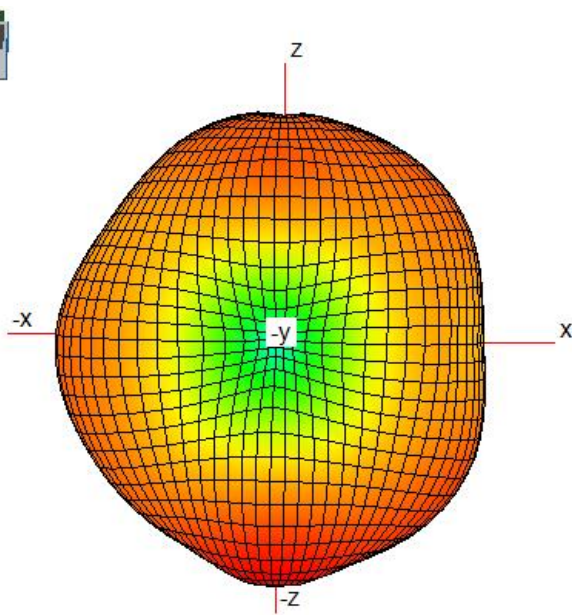
6.1 Antenna gain and 2D or 3D pattern diagram:

ANT0

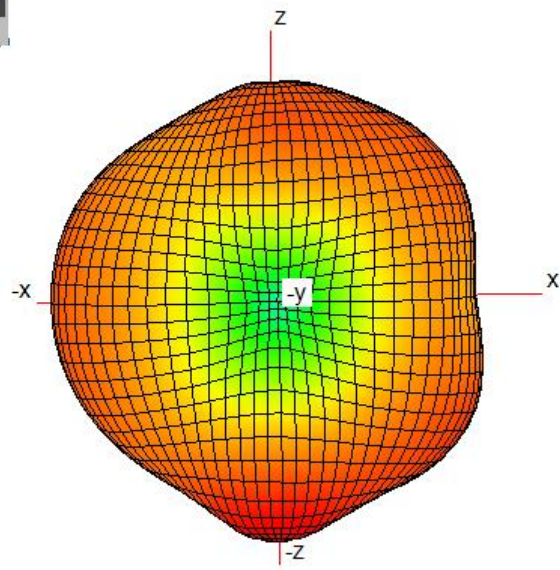
B5



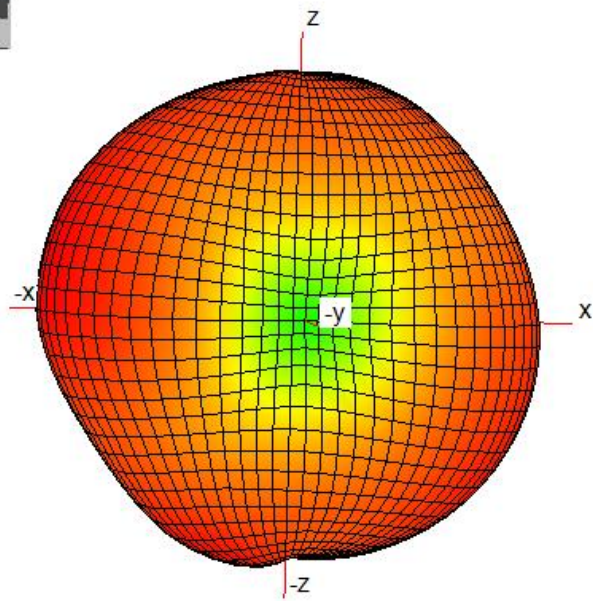
B13



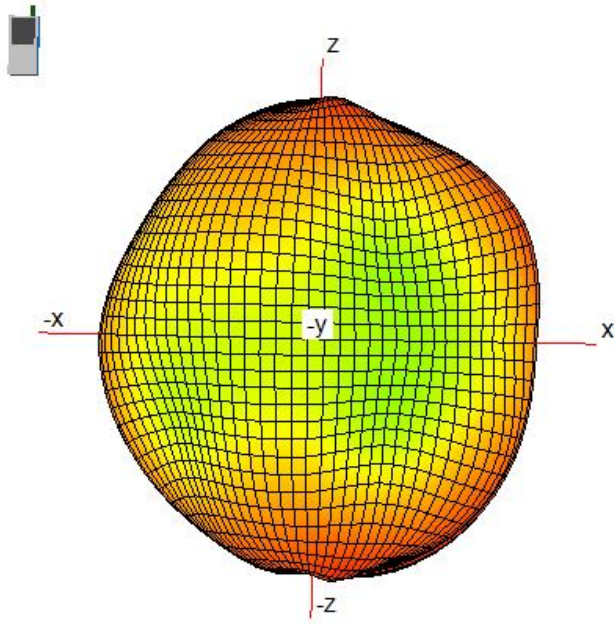
B12/B17



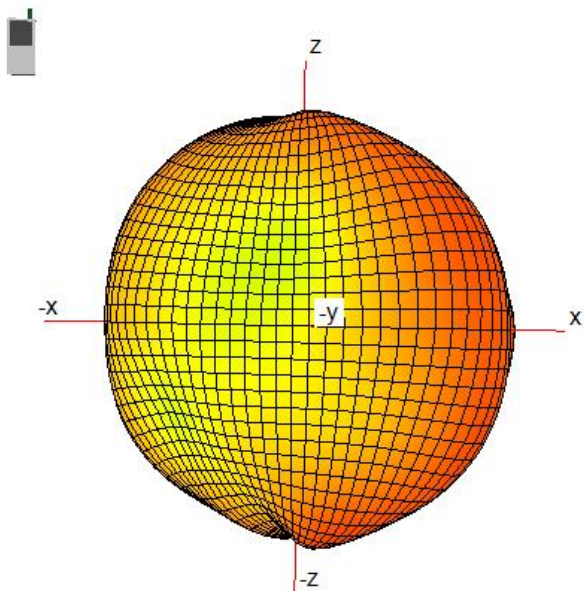
B71



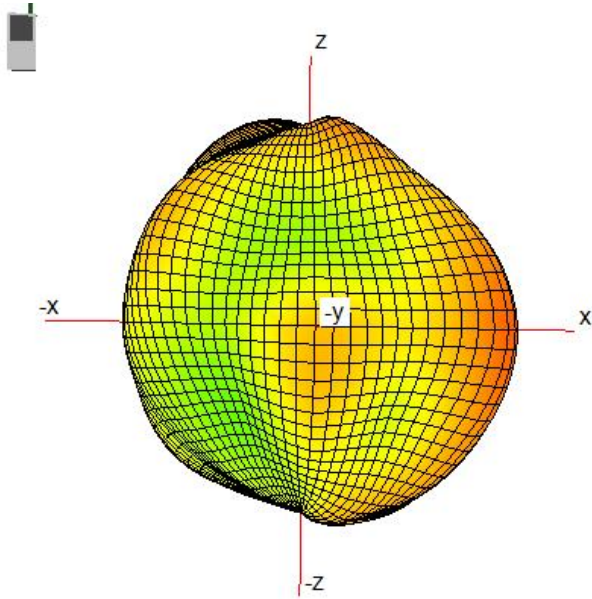
ANT1
GSM850



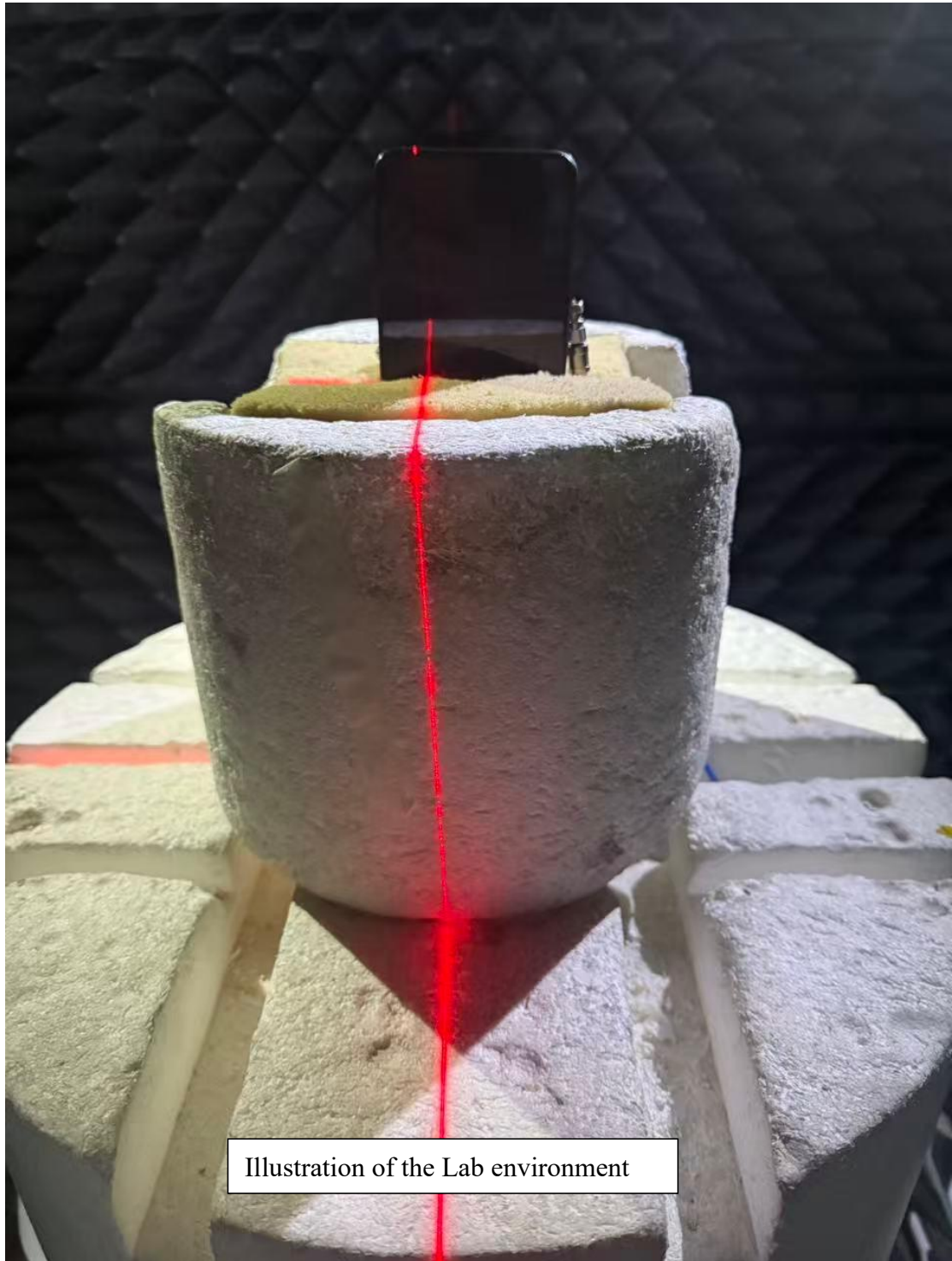
B4/B66



GSM1900/B2



7. Antenna test photo



8. Test software: GTS

9. Signature:
