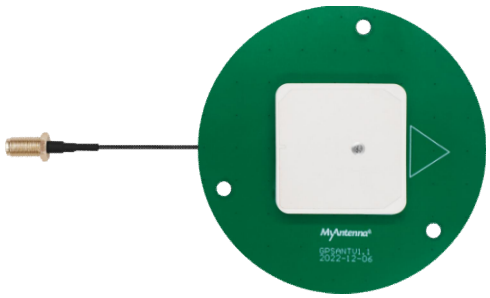
GNSS passive antenna



Product Description

Part No.	Weight	Dimensions (L x W x H)	Color
M01-0300100R0A	30g	Φ81*130mm	brown

Electrical Characteristics

Antenna		
1	Antenna model	3540A（35mm*35mm*4mm）
2	Frequency Range	1550-1610MHz
3	V.S.W.R	2.5 MAX
4	Gain	3.22dB typ @Φ81mm groundplane
5	Impendence	50Ω
6	Polarization	RHCP
7	Frequency Temperature Coefficient max	20（ppm/deg.℃）

Material

No	Part Name	SPEC
1	Antenna	Dielectric Ceramics 35*35*4mm
2	PCB	FR4 Φ81*1.0mm
3	RF Cable （线材）	RF1.13
4	RF Connector（接头）	SMA FEMALE

Environment Condition

1	Working Temp（工作温度）	-40℃～+85℃, 10%～95% RH
2	Storage Temp（贮存温度）	-55℃～+100℃, 10%～95% RH
3	Vibration（震动）	Wave Form: Random Vibration Test Time: 30min/Axis Direction: X, Y, Z Axis PSD Break Points for 9.8 RMS(m/s^2) Frequency (Hz) | Acceleration $(m/s^2)^2/Hz$ 50 | 0.38416 300 | 0.38416

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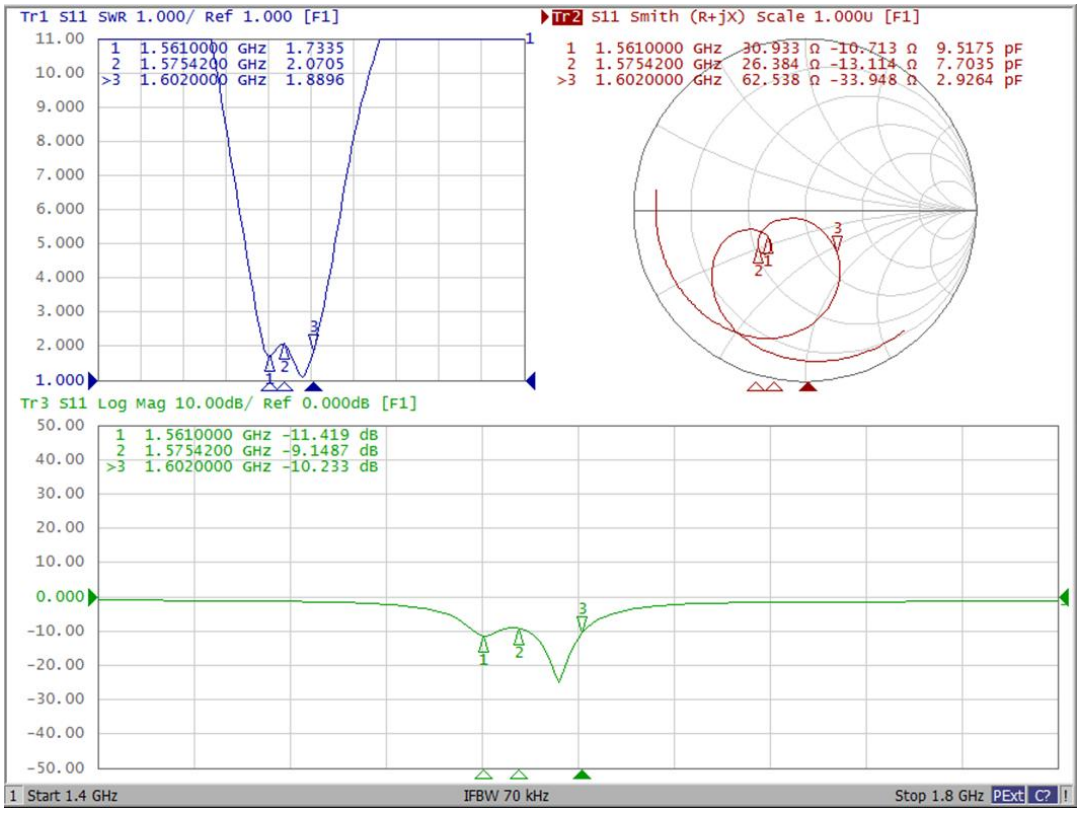
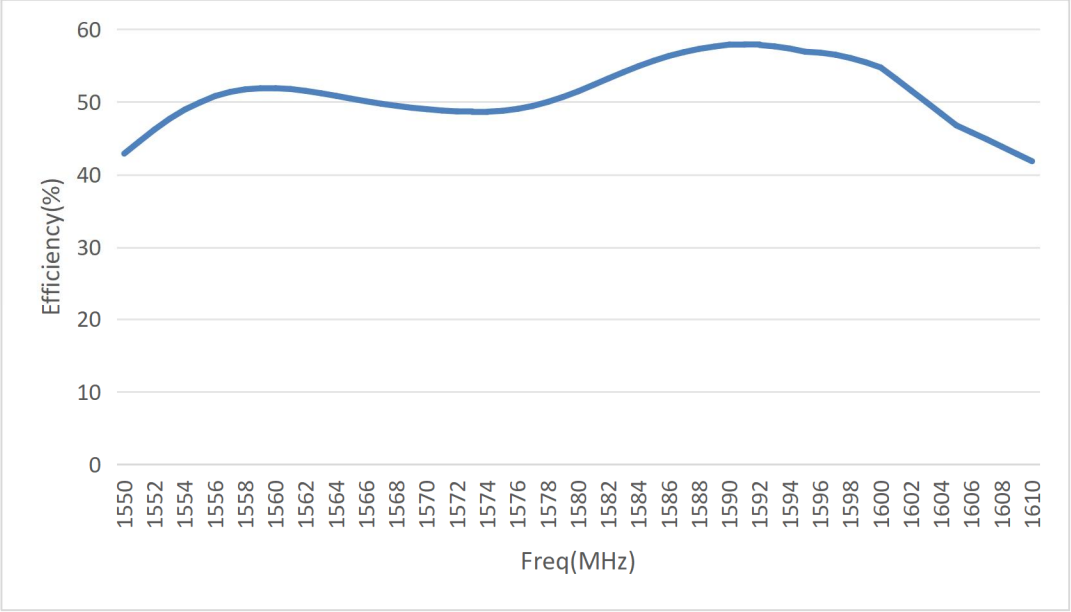
Performance test

V.S.W.R & Return Loss



Passive testing



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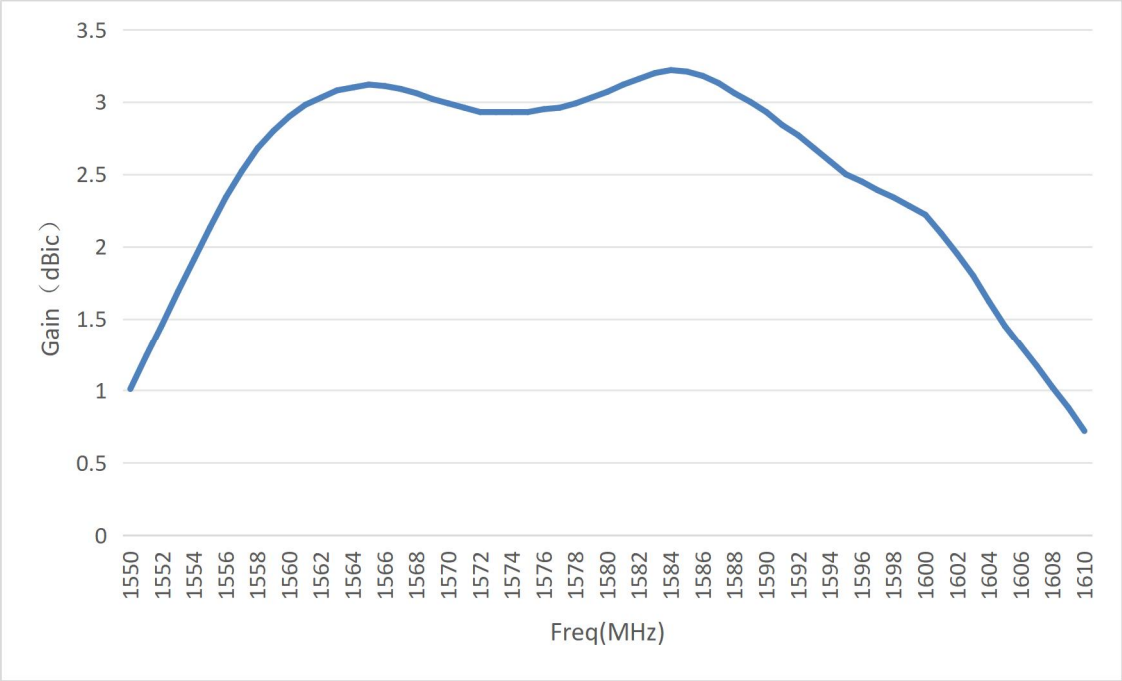

Freq(MHz)	Gain（dBic）	Efficiency(%)	Freq(MHz)	Gain（dBic）	Efficiency(%)	Freq(MHz)	Gain（dBic）	Efficiency(%)
1550	1.01	42.90	1571	2.96	48.82	1592	2.77	57.83
1551	1.24	44.57	1572	2.93	48.70	1593	2.68	57.64
1552	1.46	46.21	1573	2.93	48.63	1594	2.59	57.34
1553	1.69	47.69	1574	2.93	48.66	1595	2.50	56.91
1554	1.91	48.95	1575	2.93	48.78	1596	2.45	56.78
1555	2.13	49.93	1576	2.95	49.05	1597	2.39	56.50
1556	2.34	50.81	1577	2.96	49.45	1598	2.34	56.04
1557	2.52	51.38	1578	2.99	50.01	1599	2.28	55.46
1558	2.68	51.74	1579	3.03	50.69	1600	2.22	54.74
1559	2.80	51.88	1580	3.07	51.46	1601	2.09	53.19
1560	2.90	51.89	1581	3.12	52.34	1602	1.95	51.59
1561	2.98	51.78	1582	3.16	53.23	1603	1.80	50.00
1562	3.03	51.52	1583	3.20	54.10	1604	1.62	48.39
1563	3.08	51.20	1584	3.22	54.93	1605	1.45	46.78
1564	3.10	50.84	1585	3.21	55.67	1606	1.31	45.82
1565	3.12	50.45	1586	3.18	56.33	1607	1.17	44.87
1566	3.11	50.09	1587	3.13	56.86	1608	1.02	43.86
1567	3.09	49.75	1588	3.06	57.30	1609	0.88	42.85
1568	3.06	49.47	1589	3.00	57.62	1610	0.72	41.85
1569	3.02	49.20	1590	2.93	57.89			
1570	2.99	49.01	1591	2.84	57.91			

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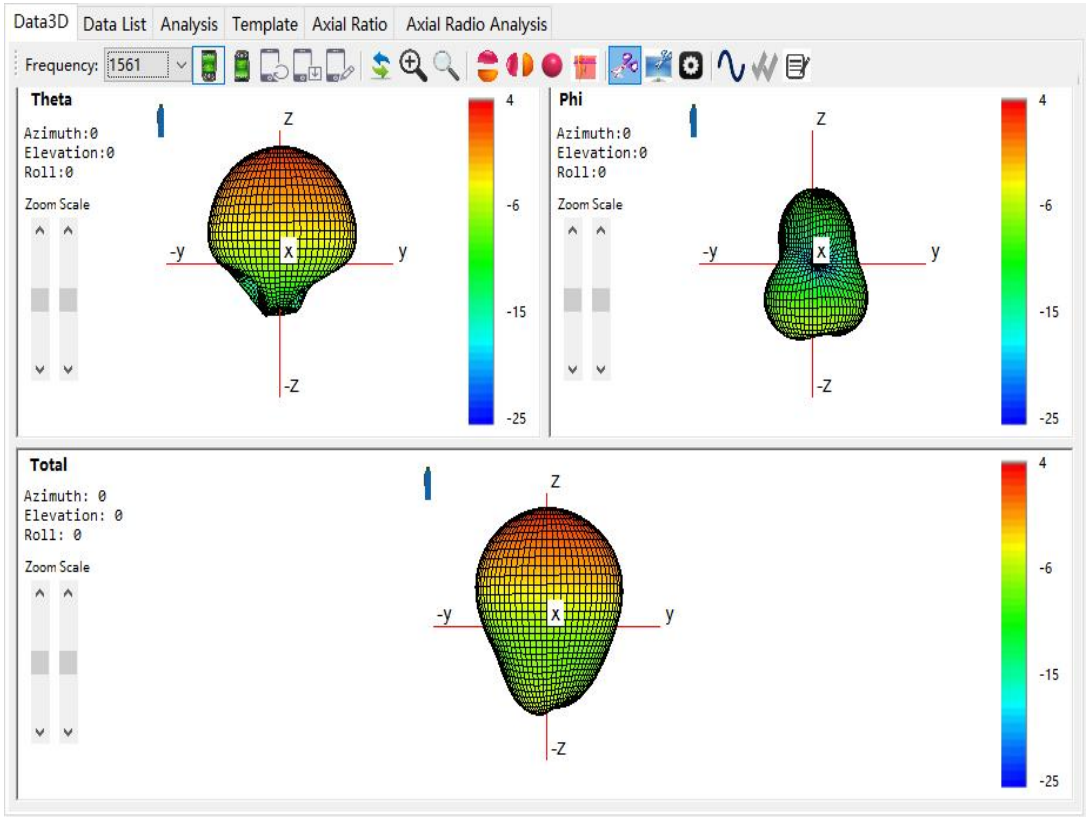
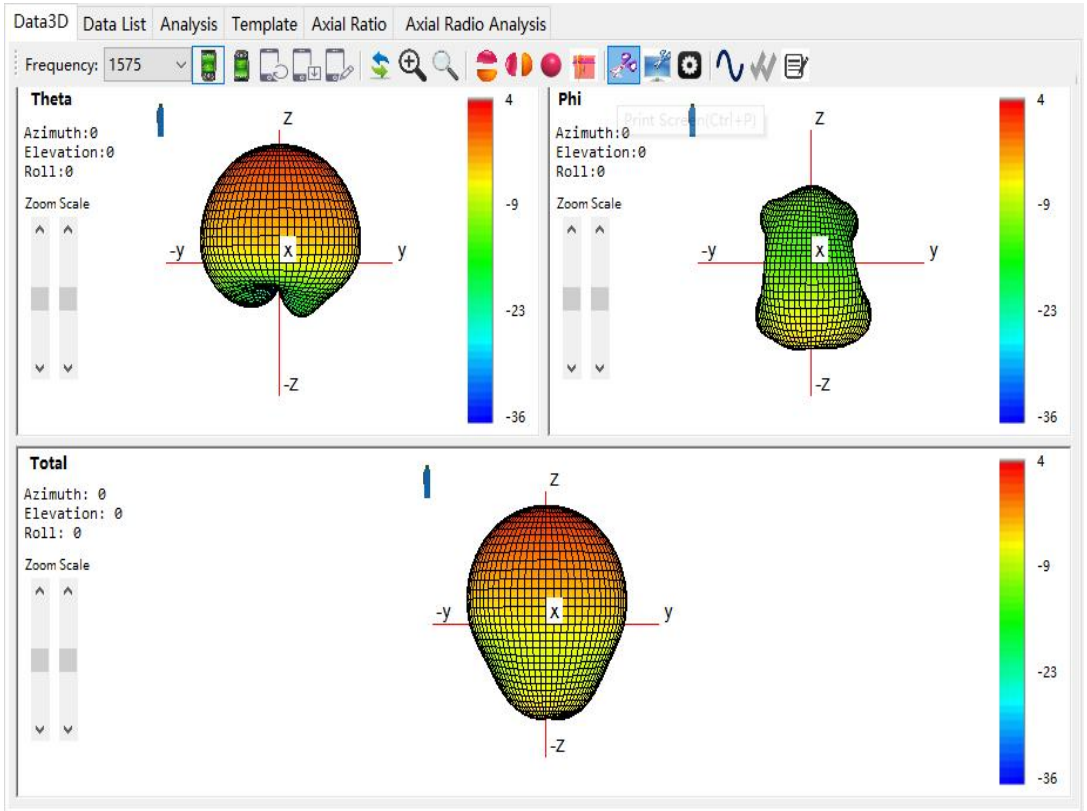
3D Map



1561MHz Gain=2.98dBic



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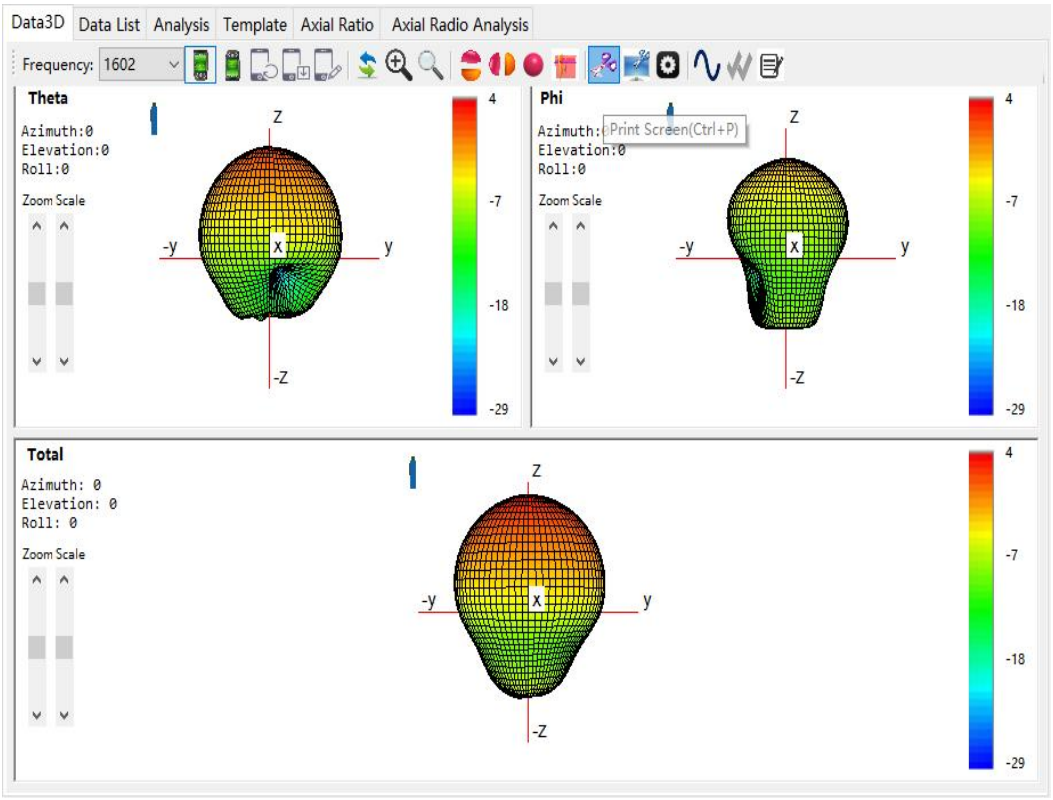
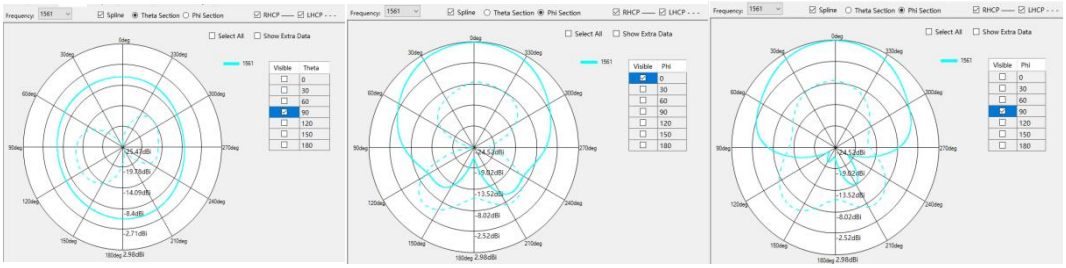
1575MHz Gain=2.93dBic

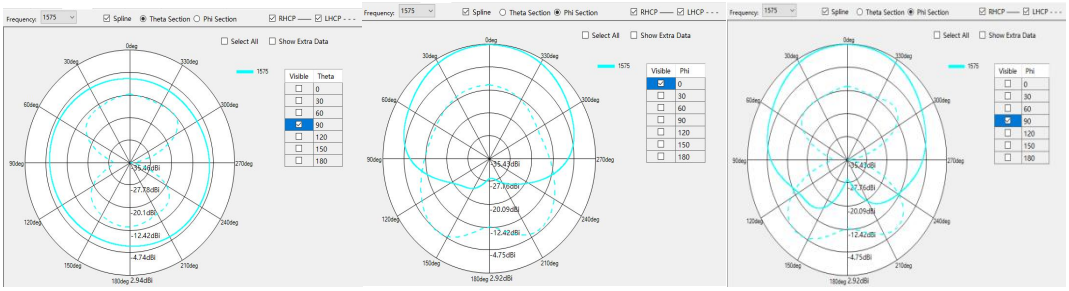


1602MHz Gain=1.95dBic

2D Map



1561MHz Gain=2.98dBic



1575MHz Gain=2.93dBic

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1602MHz Gain=1.95dBic

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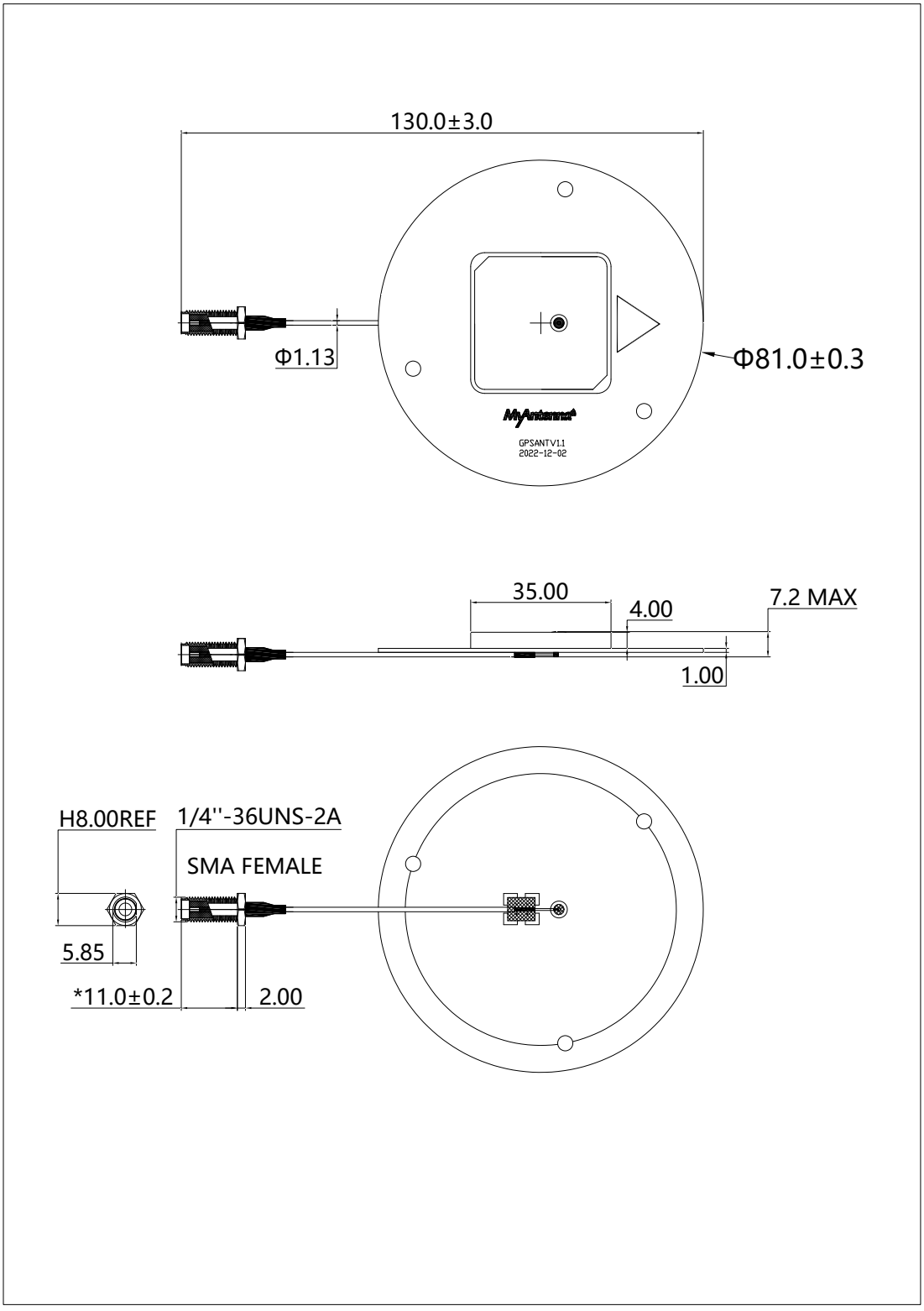
HOUSING CONFIGURATIONS



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