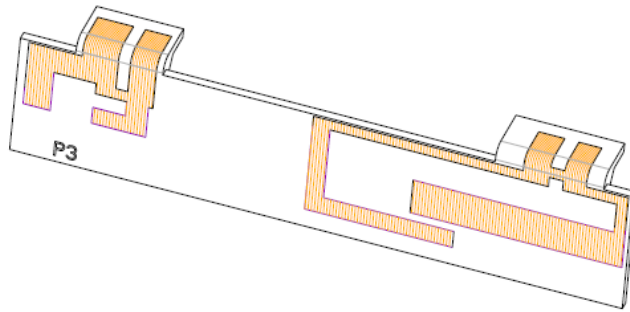




Applications:

 Body Camera

Electrical specifications @ 25° C

General Specifications

Antenna Type	Nominal Impedance	Polarization	Radiation Pattern
PIFA	50Ω	Vertical	Omni

Frequency (MHz)	1.17~1.18 GHz / 1.570~1.58GHz/2.4~2.5 GHz/5.15~5.85 GHz
VSWR	≤ 3.0
Return Loss	≤ -5dB
Efficiency (%)	1.17~1.18 GHz band: 40% 1.57~1.58 GHz band: 47% 2.4~2.5 GHz band: 50% 5.15~5.85 GHz band: 40%
Gain(dBi)	1.17~1.18GHz band: 0-1 (dBi) 1.57~1.58GHz band: 2-3 (dBi) 2.4~2.5 GHz band: 5-6 (dBi) 5.15~5.85 GHz band: 0-1 (dBi)

Mechanical Specifications

Orderable PN: SZ31530

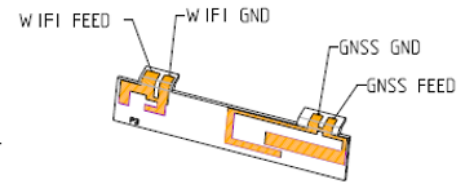
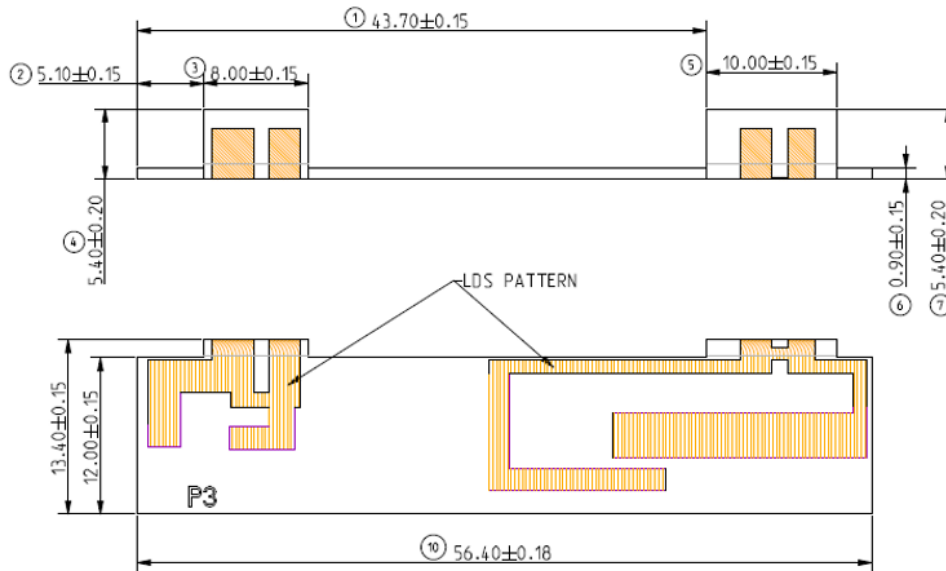
Dimension (Length x Width x Height)	Antenna Type	Plating Spec	Material of Plastic	Weight
56.4mm*5.4mm*13.4mm	LDS	Cu 12-16um, Ni 2-4um, Au Min0.05um	PC, SABIC DX11355	1.0 g

Notes:

1. Storage Temperature: -30°C to 80°C
2. Working Temperature: -30°C to 80°C

Mechanical Drawing

SZ31530

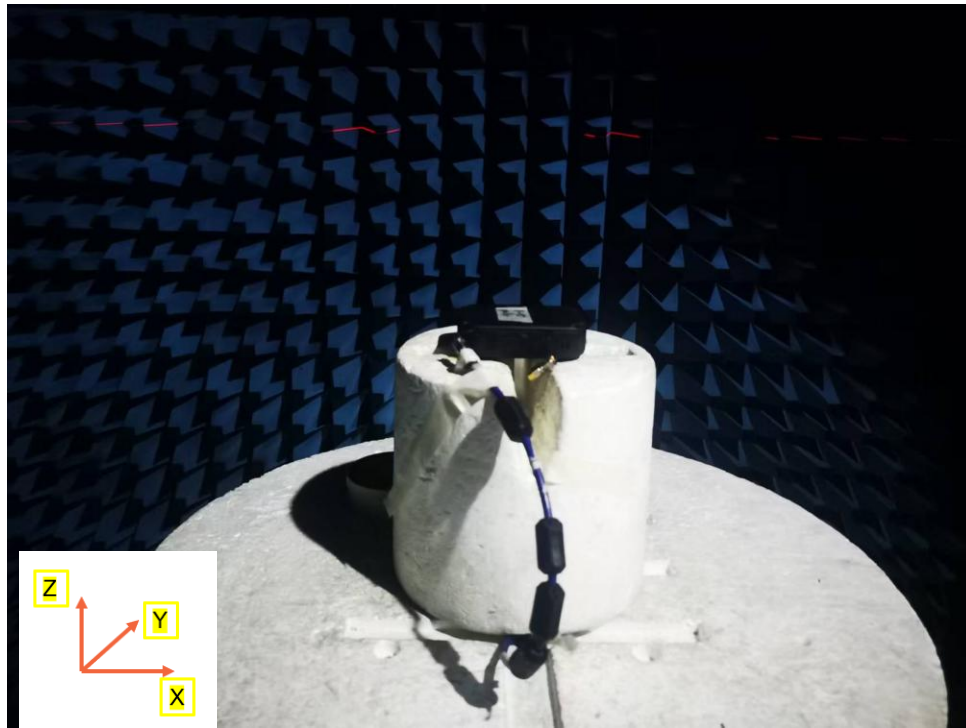


SCALE 1.000

Dimension Unit: mm

Test Setup

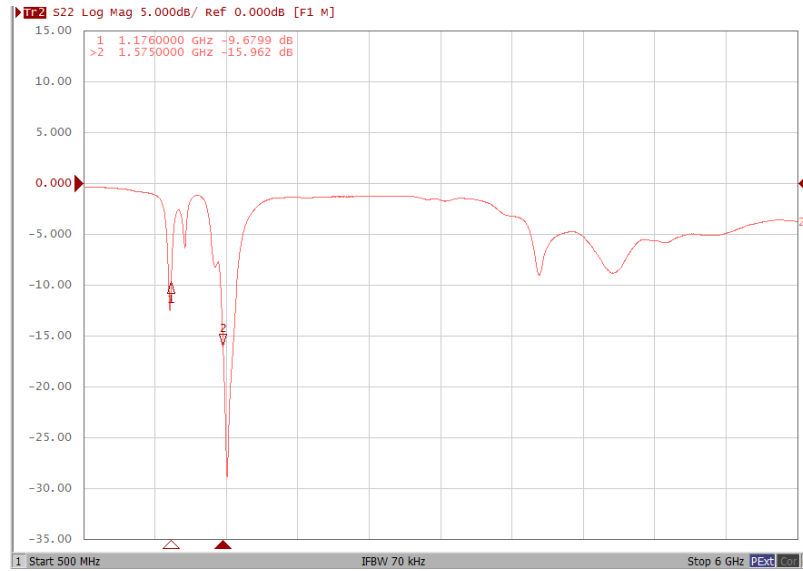
SZ31530



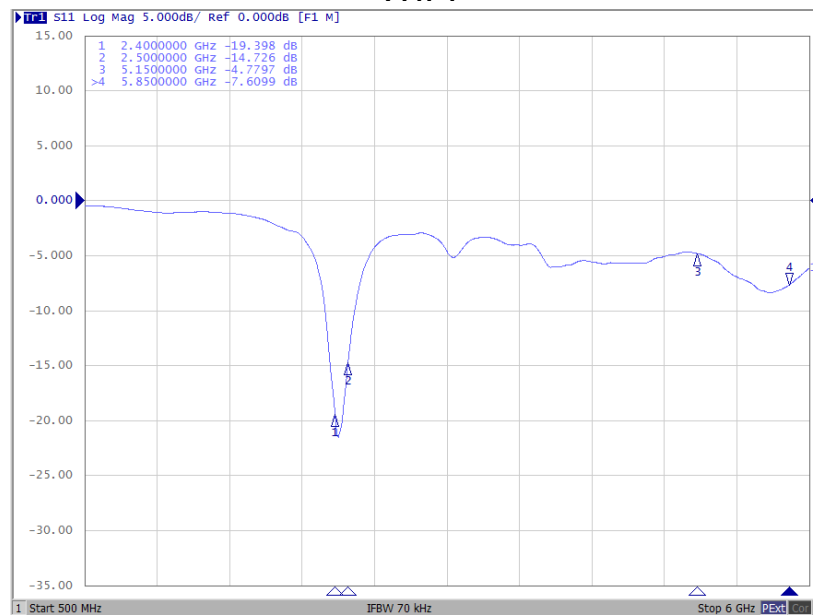
Charts- Antenna Return Loss

SZ31530

GPS



WIFI



Charts – Efficiency & Peak Gain

SZ31530

GNSS antenna performance

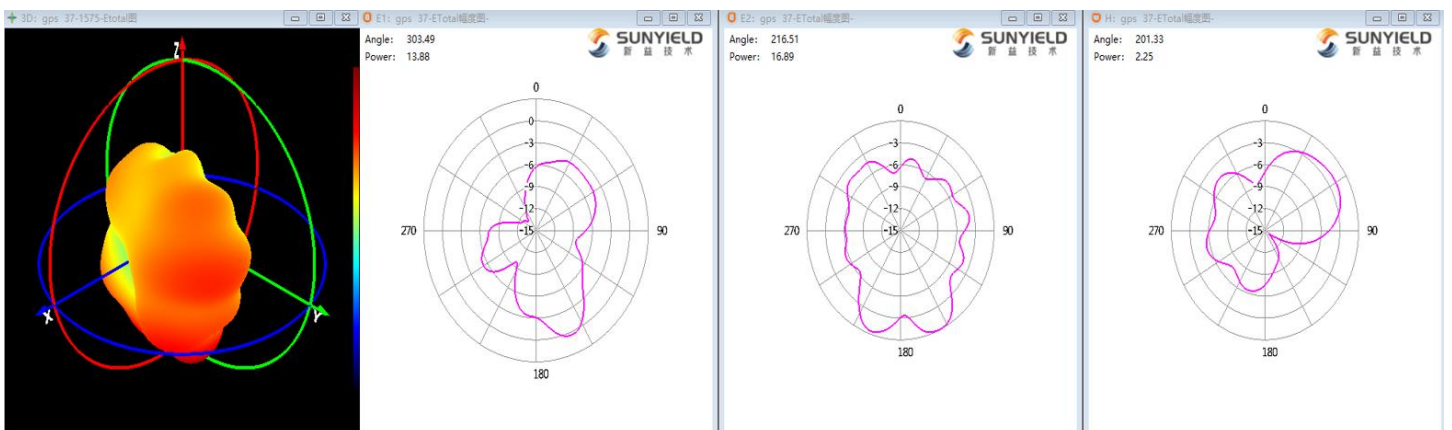
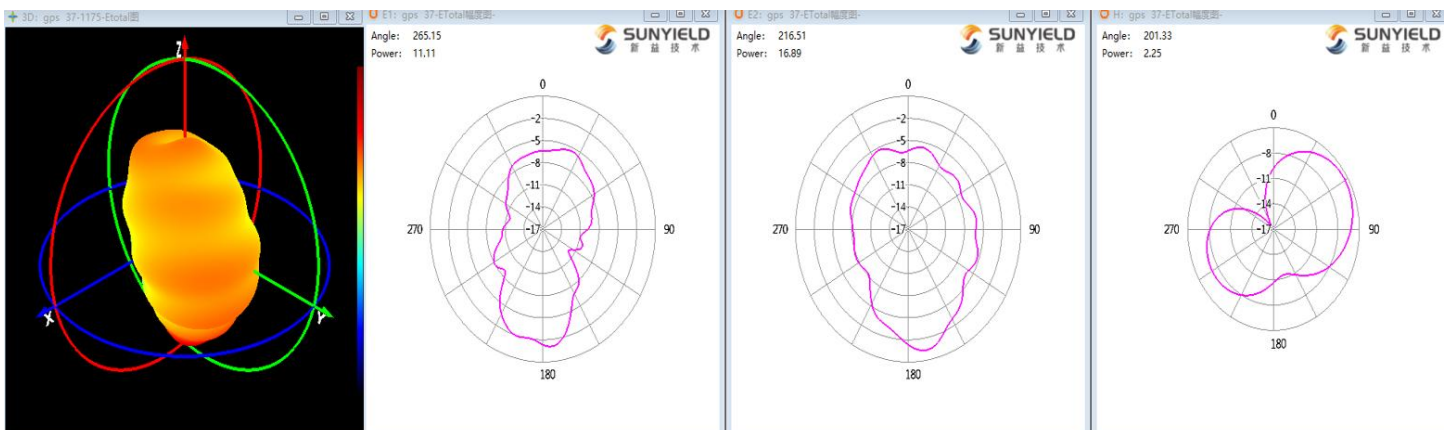
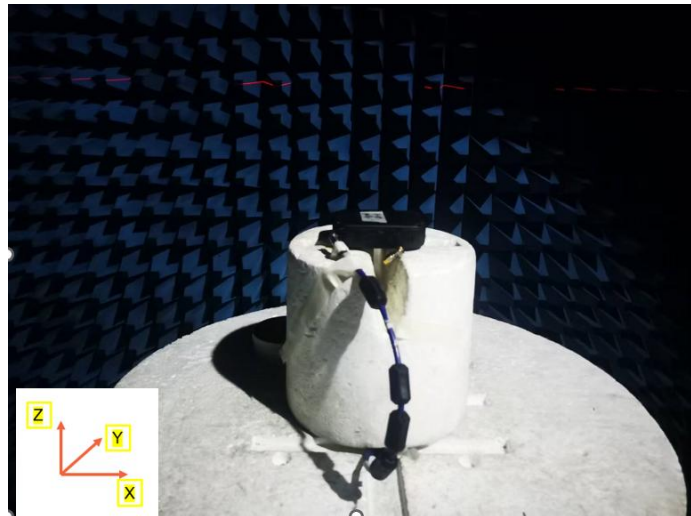
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)		Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1135	-0.08	-6.53	22.25		1555	2.18	-3.32	46.47
1140	0.67	-6.02	25.03		1560	2.33	-3.33	46.35
1145	1.11	-5.61	27.47		1565	2.42	-3.36	46.05
1150	1.77	-5.01	31.52		1570	2.45	-3.41	45.6
1155	1.99	-4.64	34.34		1575	2.37	-3.41	45.52
1160	2.24	-4.3	37.18		1580	2.13	-3.62	43.4
1165	2.26	-4.08	39.11		1585	2.06	-3.73	42.29
1170	2.2	-3.98	40.03		1590	1.85	-3.9	40.65
1175	1.97	-4.06	39.26		1595	1.78	-4.01	39.65
1180	1.52	-4.31	37.1		1600	1.73	-4.16	38.3
1185	1.03	-4.83	32.86		1605	1.76	-4.18	38.18
					1610	1.97	-4.12	38.7

WIFI antenna performance

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)		Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2300	3.57	-4.39	36.4		5000	0.73	-4.81	33.07
2320	3.78	-4.06	39.26		5030	0.46	-4.97	31.82
2340	4.46	-3.59	43.75		5060	0.03	-5.04	31.3
2360	4.71	-3.48	44.92		5090	-0.07	-4.92	32.19
2380	4.67	-3.42	45.49		5120	-0.7	-4.89	32.44
2400	4.48	-3.25	47.27		5150	-0.86	-4.89	32.42
2420	4.44	-2.99	50.27		5180	-1.32	-4.77	33.33
2440	4.44	-2.77	52.88		5210	-0.95	-4.78	33.29
2460	4.6	-2.82	52.27		5240	-0.61	-4.64	34.38
2480	4.51	-2.97	50.45		5270	-0.06	-4.44	35.94
2500	4.21	-3.1	48.99		5300	0.01	-4.45	35.87
2520	4.26	-2.98	50.36		5330	0.55	-4.16	38.4
2540	4.28	-2.87	51.59		5360	0.78	-4.16	38.35
2560	4.4	-2.83	52.13		5390	0.93	-3.98	39.95
2580	4.41	-3.11	48.89		5420	0.59	-4.09	38.97
2600	4.3	-3.25	47.34		5450	0.02	-4.07	39.13
					5480	-0.32	-4.21	37.94
					5510	-0.45	-4.24	37.64
					5540	-0.33	-4.42	36.17
					5570	-0.02	-4.33	36.89
					5600	-0.1	-4.6	34.69
					5630	-0.03	-4.49	35.55
					5660	0.03	-4.44	36
					5690	0.46	-4.12	38.75
					5720	0.5	-4.08	39.11
					5750	0.88	-4.05	39.33
					5780	0.77	-4.08	39.09
					5810	0.99	-4	39.8
					5850	0.9	-4.07	39.15
					5900	0.5	-4.44	35.99
					5950	0.38	-4.49	35.57
					6000	0.02	-4.89	32.4

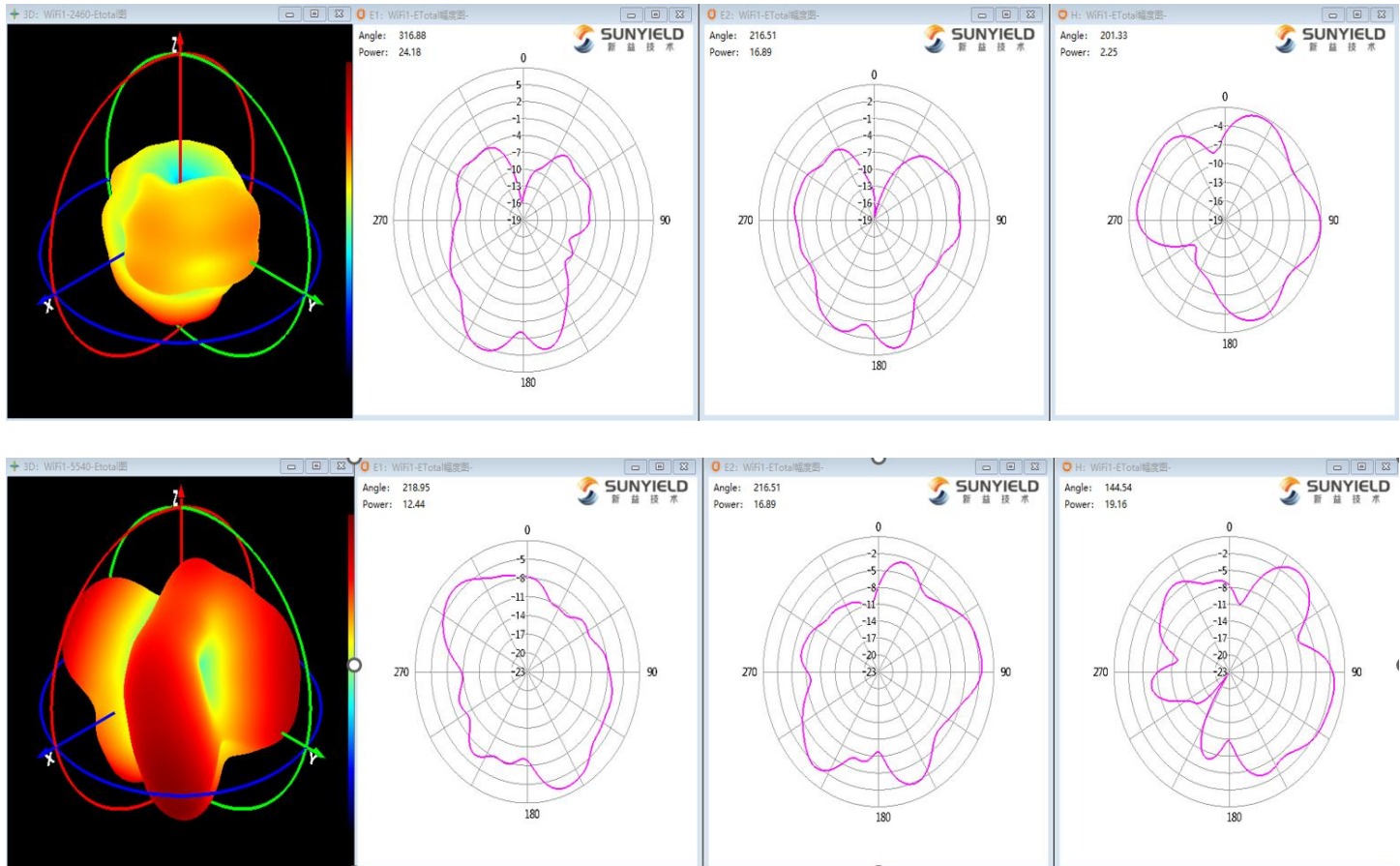
Charts – Antenna Radiation Pattern

SZ31530



LITE LDS ANTENNA

SZ31530



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