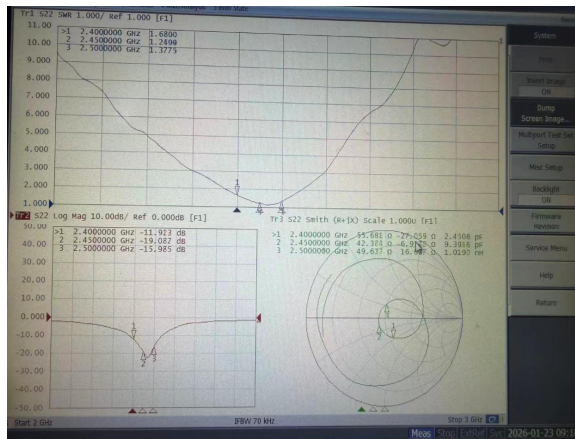


Frequency (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)
2400	5.5018	-5.5897	-6.4704	22.5411	32.8274	37.1492	35.0031	11.7724	7.5046	8.1918	46	-109	100	-180	-10.0064
2410	5.5114	-6.4152	-6.4015	22.277	33.2551	36.2412	48.0086	11.8613	8.2951	8.0277	48	-102	100	-180	-10.1051
2420	5.5113	-6.4305	-6.4178	23.180	35.7313	35.8413	47.8028	11.0703	8.7143	8.080	49	-106	100	-180	-9.9704
2430	6.0089	-6.2647	-6.2618	23.542	37.1622	36.1561	46.2664	10.0086	8.4261	8.0022	49	-106	100	-180	-9.9086
2440	6.1289	-6.2121	-6.181	23.2221	36.2011	36.4108	44.0563	9.9299	8.6459	8.0377	49	-106	100	-180	-10.003
2450	6.2712	-6.1128	-6.1084	23.0979	35.055	36.42	43.1808	9.9898	10.0508	8.1151	49	-106	100	-180	-9.9892
2460	6.2922	-6.0843	-6.101	23.4303	35.0969	35.4107	42.1108	8.9583	10.9808	7.0051	49	-108	100	-180	-10.0351
2470	6.3373	-6.1094	-6.1092	22.8879	35.4102	34.943	48.0186	6.5872	11.0415	7.1918	49	-108	100	-180	-9.9814
2480	6.4813	-6.0727	-6.1006	23.2808	36.285	34.0085	48.0483	6.7804	10.8761	7.0718	49	-108	100	-180	-10.0721
2490	6.4845	-6.0706	-6.4719	22.5356	34.0522	35.5472	48.0386	7.2359	10.9201	7.2054	49	-108	100	-180	-10.207
2500	6.5117	-6.0511	-6.4406	22.6642	35.7379	34.7637	48.0273	7.9287	11.3214	7.4702	48	-100	100	-180	-10.1505

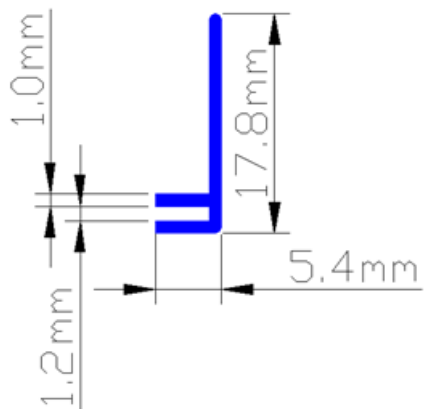
Frequency (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)	Gain (dBi)	Efficiency (%)	SWR	Return Loss (dB)	Bandwidth (MHz)
5.4814	-5.4142	12.5187	-6.6271	10.8267	-5.3556	11.0414	-6.2042	1.5803	9.8327	10.9418					
5.5871	-5.5654	12.49	-6.5816	10.9879	-5.3551	11.0853	-6.2043	1.4486	7.1338	17.3965					
10.0085	-5.5215	13.1173	-6.6025	11.1170	-6.0561	11.8883	-6.1964	1.6478	7.2946	17.4783					
10.1426	-5.5241	13.2055	-6.5889	11.4483	-6.8714	12.0312	-6.2056	1.5861	9.0821	19.1438					
9.9436	-5.5182	13.2729	-6.6179	11.0010	-6.2371	11.9385	-6.2068	1.6079	14.5111	23.2519					
10.0435	-6.0215	13.0223	-6.3877	11.0207	-6.1557	12.1432	-6.2017	1.1141	45.0834	33.1391					
9.498	-6.0018	13.5862	-6.6122	11.4483	-6.2155	13.477	-6.1988	0.9378	28.0588	28.9415					
10.0377	-6.2842	13.8461	-6.1145	11.7008	-6.1445	12.1781	-1.0997	-6.6342	12.2905	21.7978					
9.8146	-6.4771	13.8669	-6.3627	11.0027	-6.2668	11.8817	-6.0344	-6.2074	18.2801						
9.6145	-6.5612	12.9981	-6.5508	11.0714	-6.4089	11.4862	-6.2447	-6.6862	6.5607	16.339					
9.6481	-6.5645	13.0182	-6.5414	11.1087	-6.4721	11.5355	-6.2089	-6.2012	5.8608	15.2713					



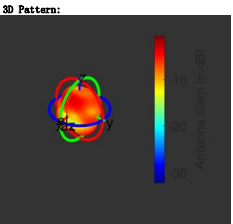
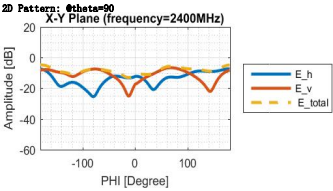
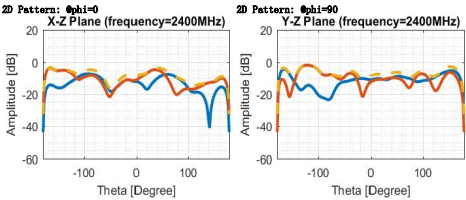
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2. Antenna picture :

3. Antenna supplier :

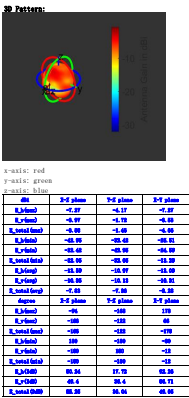
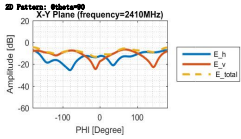
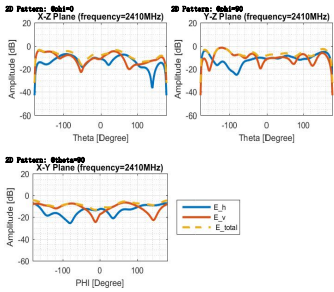


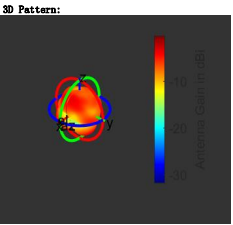
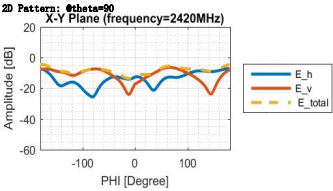
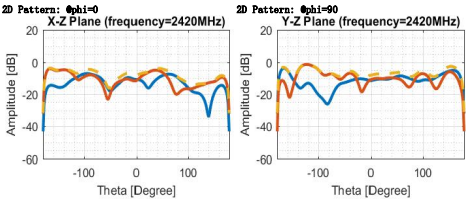
Manufacturer : Wuxi Funide Digital Co.,Ltd
 Address : NO.38 East Chun Hui Road,
 Xishan Economic & Technology
 Development Zone Wuxi.China 214101



x-axis: red
y-axis: green
z-axis: blue

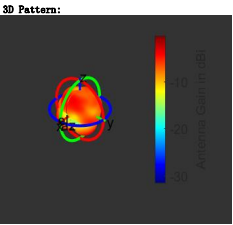
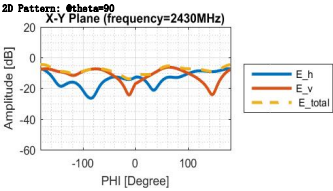
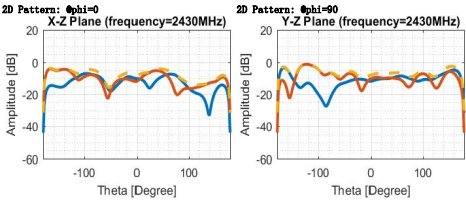
dB	2-2 plane	2-3 plane	3-3 plane
E_h (max)	-7.97	-6.45	-7.96
E_v (max)	-9.72	-1.84	-6.6
E_{total} (max)	-8.88	-1.71	-6.78
E_h (min)	-43.64	-32.68	-26.9
E_v (min)	-32.66	-43.64	-26.38
E_{total} (min)	-33.33	-33.33	-13.88
E_h (avg)	-13.73	-10.84	-13.9
E_v (avg)	-10.86	-10.13	-10.3
E_{total} (avg)	-6.88	-7.38	-6.38
Apex	2-2 plane	2-3 plane	3-3 plane
E_h (max)	-93	-105	178
E_v (max)	-108	-122	88
E_{total} (max)	-108	-122	-178
E_h (min)	180	-180	-80
E_v (min)	-180	180	-12
E_{total} (min)	180	-180	-12
E_h (dBO)	80.14	17.83	82.5
E_v (dBO)	47.87	87.33	88.88
E_{total} (dBO)	82.9	97.16	90.05





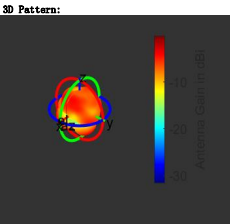
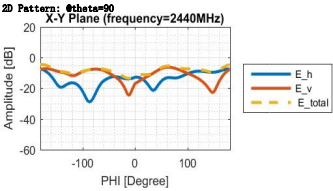
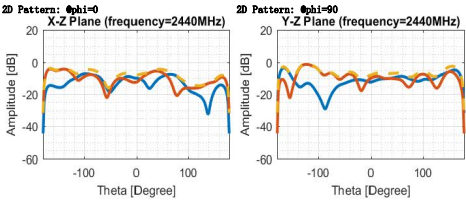
x-axis: red
y-axis: green
z-axis: blue

dB	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-7.15	-8.81	-7.21
E_v (max)	-4.12	-1.48	-4.28
E_{total} (max)	-5.73	-1.2	-4.88
E_h (min)	-43.16	-32.04	-35.85
E_v (min)	-32.04	-43.16	-34.14
E_{total} (min)	-31.71	-31.71	-13.85
E_h (avg)	-13.19	-10.9	-13.19
E_v (avg)	-10.79	-10.09	-10.14
E_{total} (avg)	-7.44	-7.21	-8.15
degree	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-54	-148	178
E_v (max)	-108	-122	84
E_{total} (max)	-108	-122	-178
E_h (min)	180	-180	-82
E_v (min)	-180	180	-12
E_{total} (min)	-180	-180	-12
E_h (dBO)	80.85	17.6	80.12
E_v (dBO)	80.28	36.5	86.44
E_{total} (dBO)	86.76	36.54	47.8



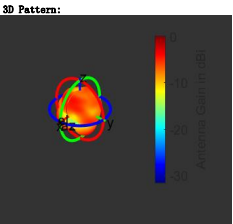
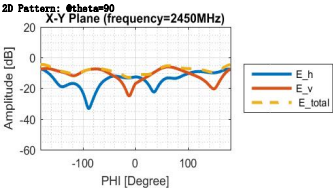
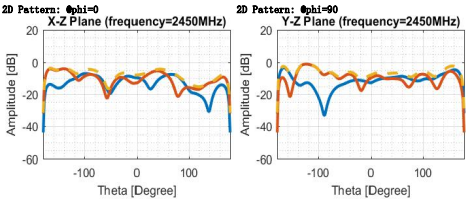
x-axis: red
y-axis: green
z-axis: blue

dB	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-7.15	-8.85	-7.3
E_v (max)	-4.18	-1.28	-4.28
E_{total} (max)	-5.81	-1.13	-4.88
E_h (min)	-43.83	-31.78	-35.82
E_v (min)	-31.78	-43.83	-34.6
E_{total} (min)	-31.83	-31.83	-13.88
E_h (avg)	-13.4	-10.94	-13.23
E_v (avg)	-10.88	-9.88	-10.13
E_{total} (avg)	-7.27	-7	-8.1
degree	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-54	-148	178
E_v (max)	-108	-124	84
E_{total} (max)	-108	-122	-178
E_h (min)	180	-180	-84
E_v (min)	-180	180	-12
E_{total} (min)	180	-180	-12
E_h (dBO)	81.01	17.48	84.88
E_v (dBO)	80.81	36.54	86.5
E_{total} (dBO)	87.16	36.2	46.88



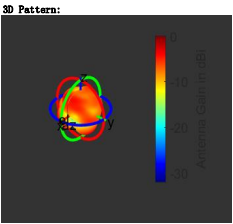
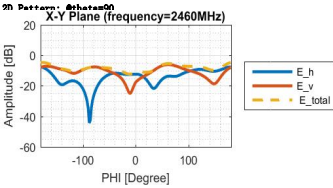
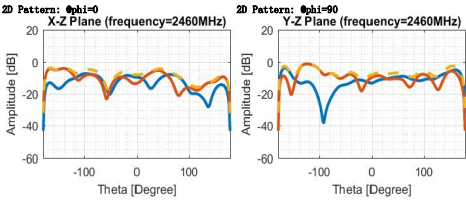
x-axis: red
y-axis: green
z-axis: blue

phi	2-2 plane	2-3 plane	3-3 plane
E_h (dBS)	-7.23	-8.63	-7.45
E_v (dBS)	-4.38	-1.44	-4.38
E_{total} (dBS)	-8.88	-1.17	-4.88
E_h (dBS)	-44.4	-31.83	-38.85
E_v (dBS)	-31.83	-44.4	-34.81
E_{total} (dBS)	-31.83	-31.83	-13.84
E_h (dBS)	-13.83	-11.1	-13.3
E_v (dBS)	-10.61	-6.89	-10.23
E_{total} (dBS)	-7.34	-7.88	-8.28
degree	2-2 plane	2-3 plane	3-3 plane
E_h (dBS)	-98	-148	178
E_v (dBS)	-148	-134	82
E_{total} (dBS)	-148	-134	-178
E_h (dBS)	180	180	-88
E_v (dBS)	-180	180	-12
E_{total} (dBS)	180	180	-12
E_h (dBS)	48.98	17.44	86.5
E_v (dBS)	88.4	88.74	86.88
E_{total} (dBS)	88.28	88.43	46.88



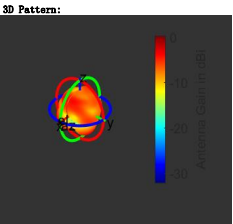
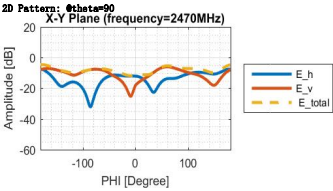
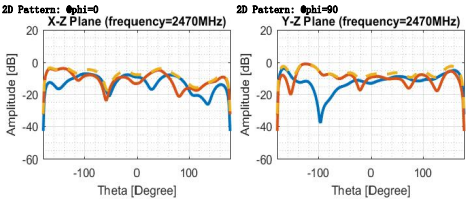
x-axis: red
y-axis: green
z-axis: blue

phi	2-2 plane	2-3 plane	3-3 plane
E_h (dBS)	-7.15	-8.68	-7.47
E_v (dBS)	-4.18	-1.28	-4.07
E_{total} (dBS)	-8.78	-8.97	-4.81
E_h (dBS)	-43.79	-33.09	-38.38
E_v (dBS)	-31.82	-43.79	-38.12
E_{total} (dBS)	-31.82	-31.82	-12.83
E_h (dBS)	-13.1	-11.21	-13.23
E_v (dBS)	-10.6	-6.61	-10.1
E_{total} (dBS)	-7.38	-8.83	-8.18
degree	2-2 plane	2-3 plane	3-3 plane
E_h (dBS)	-98	-148	178
E_v (dBS)	-148	-134	82
E_{total} (dBS)	-148	-134	-178
E_h (dBS)	180	-88	-88
E_v (dBS)	-180	-180	-12
E_{total} (dBS)	-180	-180	-12
E_h (dBS)	48.98	17.43	86.61
E_v (dBS)	88.88	88.74	86.84
E_{total} (dBS)	88.8	88.43	46.18



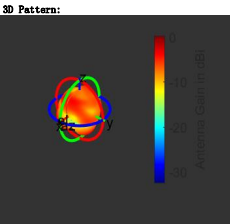
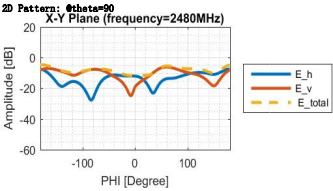
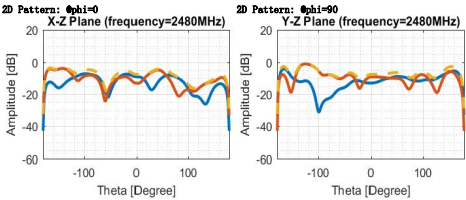
x-axis: red
y-axis: green
z-axis: blue

Phi	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-7.41	-8.83	-7.83
E_v (max)	-4.13	-1.3	-6.06
E_total (max)	-5.76	-6.99	-6.69
E_h (min)	-43.19	-38.69	-44.35
E_v (min)	-33.39	-43.19	-34.9
E_total (min)	-31.99	-31.99	-13.3
E_h (avg)	-13.94	-11.45	-13.81
E_v (avg)	-10.69	-6.66	-10.69
E_total (avg)	-7.44	-7.19	-8.33
degree	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-99	-148	178
E_v (max)	-149	-134	82
E_total (max)	-138	-134	-178
E_h (min)	180	-95	-88
E_v (min)	-180	180	-10
E_total (min)	-180	-180	-12
E_h (dBD)	81.9	17.4	86.96
E_v (dBD)	46.35	36.21	64.6
E_total (dBD)	66.1	36.81	47.13



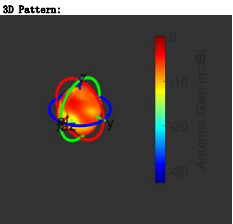
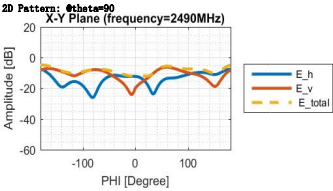
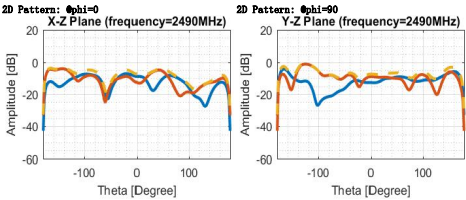
x-axis: red
y-axis: green
z-axis: blue

Phi	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-7.27	-6.81	-7.5
E_v (max)	-3.94	-1.14	-6.81
E_total (max)	-5.66	-6.79	-6.64
E_h (min)	-43.88	-37.78	-43.27
E_v (min)	-33.87	-43.88	-35.27
E_total (min)	-33.18	-33.18	-11.83
E_h (avg)	-13.69	-11.44	-13.88
E_v (avg)	-10.66	-6.64	-10.66
E_total (avg)	-7.38	-7.23	-8.63
degree	X-Z plane	Y-Z plane	X-Y plane
E_h (max)	-99	-148	178
E_v (max)	-148	-138	82
E_total (max)	-138	-138	-178
E_h (min)	180	-95	-88
E_v (min)	-180	180	-10
E_total (min)	-180	-180	-10
E_h (dBD)	83.91	17.06	85.91
E_v (dBD)	46.85	36.41	66.23
E_total (dBD)	66.41	34.94	46.83



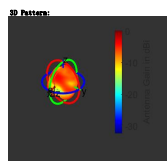
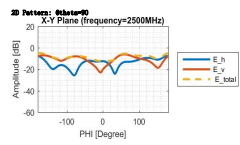
x-axis: red
y-axis: green
z-axis: blue

phi	2-2 plane	2-2 plane	2-2 plane
E_h (max)	-7.29	-6.3	-7.92
E_v (max)	-9.98	-1.18	-6.13
E_{total} (max)	-6.69	-6.79	-6.69
E_h (min)	-42.81	-32.89	-27.8
E_v (min)	-32.89	-42.81	-32.89
E_{total} (min)	-32.46	-32.46	-11.79
E_h (avg)	-13.4	-11.84	-12.83
E_v (avg)	-10.66	-6.63	-6.69
E_{total} (avg)	-7.32	-7.29	-6.1
degree	2-2 plane	2-2 plane	2-2 plane
E_h (max)	-90	-180	170
E_v (max)	-142	-120	90
E_{total} (max)	-140	-120	-170
E_h (min)	180	-180	-94
E_v (min)	-180	180	-6
E_{total} (min)	180	-180	-6
E_h (d40)	64.85	16.01	39.9
E_v (d40)	46.04	34.66	66.61
E_{total} (d40)	66.29	34.66	46.69



x-axis: red
y-axis: green
z-axis: blue

phi	2-2 plane	2-2 plane	2-2 plane
E_h (max)	-7.29	-6.37	-7.94
E_v (max)	-4.13	-1.28	-6.27
E_{total} (max)	-5.74	-6.68	-6.68
E_h (min)	-42.74	-32.07	-26.85
E_v (min)	-32.07	-42.74	-32.12
E_{total} (min)	-32.63	-32.63	-12.09
E_h (avg)	-13.43	-11.89	-12.71
E_v (avg)	-10.66	-6.46	-10.23
E_{total} (avg)	-7.19	-7.27	-6.5
degree	2-2 plane	2-2 plane	2-2 plane
E_h (max)	-90	-180	170
E_v (max)	-144	-120	90
E_{total} (max)	-142	-120	-170
E_h (min)	180	-180	-92
E_v (min)	-180	180	-6
E_{total} (min)	-180	-180	-6
E_h (d40)	61.83	16.26	39.26
E_v (d40)	47.65	34.09	66.47
E_{total} (d40)	64.99	33.65	46.69



x-axis: red y-axis: green z-axis: blue				
dir	0-5 plane	0-5 plane	0-5 plane	0-5 plane
1, r, r, r	-0.40	-0.40	-0.10	-0.10
2, r, r, r	-0.40	-0.40	-0.10	-0.10
3, r, r, r	-0.40	-0.40	-0.10	-0.10
4, r, r, r	-0.40	-0.40	-0.10	-0.10
5, r, r, r	-0.40	-0.40	-0.10	-0.10
6, r, r, r	-0.40	-0.40	-0.10	-0.10
7, r, r, r	-0.40	-0.40	-0.10	-0.10
8, r, r, r	-0.40	-0.40	-0.10	-0.10
9, r, r, r	-0.40	-0.40	-0.10	-0.10
10, r, r, r	-0.40	-0.40	-0.10	-0.10
11, r, r, r	-0.40	-0.40	-0.10	-0.10
12, r, r, r	-0.40	-0.40	-0.10	-0.10
13, r, r, r	-0.40	-0.40	-0.10	-0.10
14, r, r, r	-0.40	-0.40	-0.10	-0.10
15, r, r, r	-0.40	-0.40	-0.10	-0.10
16, r, r, r	-0.40	-0.40	-0.10	-0.10
17, r, r, r	-0.40	-0.40	-0.10	-0.10
18, r, r, r	-0.40	-0.40	-0.10	-0.10
19, r, r, r	-0.40	-0.40	-0.10	-0.10
20, r, r, r	-0.40	-0.40	-0.10	-0.10
21, r, r, r	-0.40	-0.40	-0.10	-0.10
22, r, r, r	-0.40	-0.40	-0.10	-0.10
23, r, r, r	-0.40	-0.40	-0.10	-0.10
24, r, r, r	-0.40	-0.40	-0.10	-0.10
25, r, r, r	-0.40	-0.40	-0.10	-0.10
26, r, r, r	-0.40	-0.40	-0.10	-0.10
27, r, r, r	-0.40	-0.40	-0.10	-0.10
28, r, r, r	-0.40	-0.40	-0.10	-0.10
29, r, r, r	-0.40	-0.40	-0.10	-0.10
30, r, r, r	-0.40	-0.40	-0.10	-0.10
31, r, r, r	-0.40	-0.40	-0.10	-0.10
32, r, r, r	-0.40	-0.40	-0.10	-0.10
33, r, r, r	-0.40	-0.40	-0.10	-0.10
34, r, r, r	-0.40	-0.40	-0.10	-0.10
35, r, r, r	-0.40	-0.40	-0.10	-0.10
36, r, r, r	-0.40	-0.40	-0.10	-0.10
37, r, r, r	-0.40	-0.40	-0.10	-0.10
38, r, r, r	-0.40	-0.40	-0.10	-0.10
39, r, r, r	-0.40	-0.40	-0.10	-0.10
40, r, r, r	-0.40	-0.40	-0.10	-0.10
41, r, r, r	-0.40	-0.40	-0.10	-0.10
42, r, r, r	-0.40	-0.40	-0.10	-0.10
43, r, r, r	-0.40	-0.40	-0.10	-0.10
44, r, r, r	-0.40	-0.40	-0.10	-0.10
45, r, r, r	-0.40	-0.40	-0.10	-0.10
46, r, r, r	-0.40	-0.40	-0.10	-0.10
47, r, r, r	-0.40	-0.40	-0.10	-0.10
48, r, r, r	-0.40	-0.40	-0.10	-0.10
49, r, r, r	-0.40	-0.40	-0.10	-0.10
50, r, r, r	-0.40	-0.40	-0.10	-0.10
51, r, r, r	-0.40	-0.40	-0.10	-0.10
52, r, r, r	-0.40	-0.40	-0.10	-0.10
53, r, r, r	-0.40	-0.40	-0.10	-0.10
54, r, r, r	-0.40	-0.40	-0.10	-0.10
55, r, r, r	-0.40	-0.40	-0.10	-0.10
56, r, r, r	-0.40	-0.40	-0.10	-0.10
57, r, r, r	-0.40	-0.40	-0.10	-0.10
58, r, r, r	-0.40	-0.40	-0.10	-0.10
59, r, r, r	-0.40	-0.40	-0.10	-0.10
60, r, r, r	-0.40	-0.40	-0.10	-0.10
61, r, r, r	-0.40	-0.40	-0.10	-0.10
62, r, r, r	-0.40	-0.40	-0.10	-0.10
63, r, r, r	-0.40	-0.40	-0.10	-0.10
64, r, r, r	-0.40	-0.40	-0.10	-0.10
65, r, r, r	-0.40	-0.40	-0.10	-0.10
66, r, r, r	-0.40	-0.40	-0.10	-0.10
67, r, r, r	-0.40	-0.40	-0.10	-0.10
68, r, r, r	-0.40	-0.40	-0.10	-0.10
69, r, r, r	-0.40	-0.40	-0.10	-0.10
70, r, r, r	-0.40	-0.40	-0.10	-0.10
71, r, r, r	-0.40	-0.40	-0.10	-0.10
72, r, r, r	-0.40	-0.40	-0.10	-0.10
73, r, r, r	-0.40	-0.40	-0.10	-0.10
74, r, r, r	-0.40	-0.40	-0.10	-0.10
75, r, r, r	-0.40	-0.40	-0.10	-0.10
76, r, r, r	-0.40	-0.40	-0.10	-0.10
77, r, r, r	-0.40	-0.40	-0.10	-0.10
78, r, r, r	-0.40	-0.40	-0.10	-0.10
79, r, r, r	-0.40	-0.40	-0.10	-0.10
80, r, r, r	-0.40	-0.40	-0.10	-0.10
81, r, r, r	-0.40	-0.40	-0.10	-0.10
82, r, r, r	-0.40	-0.40	-0.10	-0.10
83, r, r, r	-0.40	-0.40	-0.10	-0.10
84, r, r, r	-0.40	-0.40	-0.10	-0.10
85, r, r, r	-0.40	-0.40	-0.10	-0.10
86, r, r, r	-0.40	-0.40	-0.10	-0.10
87, r, r, r	-0.40	-0.40	-0.10	-0.10
88, r, r, r	-0.40	-0.40	-0.10	-0.10
89, r, r, r	-0.40	-0.40	-0.10	-0.10
90, r, r, r	-0.40	-0.40	-0.10	-0.10
91, r, r, r	-0.40	-0.40	-0.10	-0.10
92, r, r, r	-0.40	-0.40	-0.10	-0.10
93, r, r, r	-0.40	-0.40	-0.10	-0.10
94, r, r, r	-0.40	-0.40	-0.10	-0.10
95, r, r, r	-0.40	-0.40	-0.10	-0.10
96, r, r, r	-0.40	-0.40	-0.10	-0.10
97, r, r, r	-0.40	-0.40	-0.10	-0.10
98, r, r, r	-0.40	-0.40	-0.10	-0.10
99, r, r, r	-0.40	-0.40	-0.10	-0.10
100, r, r, r	-0.40	-0.40	-0.10	-0.10