

TEST REPORT

Client	Name	Tongyu Communication Inc.
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Test lab	Name	ZhongShan Qianheng Testing Co.,Ltd.
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ZhongShan Qianheng Testing Co.,Ltd.

Sample Description

Sample name	Outdoor Macro Antenna	Report S/N	P20240717101
Sample model	T0004M3R011	Sample Quantity	1
Receiving	2024-07-17	Test Date	2024-07-17
Sample type	Pattern test	Sample S/N	P20240717101-01
Description	No scratch was found in the sample by visual check. Screw thread and the internal parts of connector is in good condition. No abnormal sound when turning over the sample. Sample size(mm): 2095×400×150; Sample weight(kg): 23.9		
Test Item	VSWR & Isolation; IM3; Gain(dBi); Vertical 3dB beamwidth (°); Horizontal 3dB beamwidth (°); Front-to-back ratio (dB); Main Cross polar ratio discrimination(dB) Side lobe suppression(dB)(First side lobe above main beam); Electrical downtilt (°);		
Test results	Compliance with client's specification.		
	Non-compliance term	/	

Remark:

1. This test report only provided testing data to verify the sample whether it is compliance with client's specification.
2. Please refer to "Performance of Radiation" for detailed testing items and result.

Content

Sample Description.....	2
1. General.....	4
2. Executive standard	4
3. Test condition and equipment.....	4
3.1. Test condition(VSWR、 Isolation & IM3):	4
3.2. Test condition:	5
4. VSWR&Isolation&IM3 Test Result	6
5. Performance of Radiation	7
6. Test conclusion	13

1. General

XXXXPol 1710~2690MHz×4 Dual-beam 33° 19.6dBi 2°~12° Integrated RCU (Remote Control Unit) Antenna
Model: T0004M3R011;

2. Executive standard

YD/T 2868-2015 Measurement of Mobile communication passive antenna.

3. Test condition and equipment

3.1. Test condition(VSWR、Isolation & IM3):

Temperature: 26.7℃
Humidity: 61%
Tsetting equipment list:

Test Item	Equipment	Equipment model	Manufacturer	Equipment S/N	Cal valid date
SWR、 Isolation、 IM3	Network analyzer	E5080A	KEYSIGHT	MY55200976	2024-12-11
	Cal kit	85032F	KEYSIGHT	MY53201934	2024-12-19
	Passive intermodulation tester	iBA-0850B	Kaelus	AN1163800954	2024-12-07
		iBA-0901B	Kaelus	AN1163500002	2024-12-07
		iBA-1800B	Kaelus	AN1163500015	2024-12-07
		iBA-2101B	Kaelus	AN1163601348	2024-12-07
		iBA-2600B	Kaelus	AN1163800986	2024-12-07
	Low intermodulation Load	SI-30A	Kaelus	AN1170900303	2024-12-11

3.2. Test condition:

Temperature: 30.5℃

Humidity: 70%RH

Pressure: /

Far field test system (SLD-5U) equipment list:

Test Item	Equipment name	Equipment name	Manufacturer	Manufacturer	Cal valid date
Performance of Radiation	Network analyzer	E5080A	KEYSIGHT	MY55200980	2024-12-12
	Power Amplifiers	NTWPA-043010	Rightfly	18099073	2024-12-08

4. VSWR& Isolation& IM3 Test Result

Frequency (MHz)	TILT (°)	Port	VSWR	Iso (dB)	IM3-1800 MHz(dBc) (2*43dBm)	IM3-2100 MHz(dBc) (2*43dBm)	IM3-2600 MHz(dBc) (2*43dBm)
1710-2690	2	P1	1.23	31.0	-166	-163	-162
		P2	1.37		-167	-163	-167
		P3	1.31	32.2	-166	-166	-165
		P4	1.33		-167	-163	-166
		P5	1.27	30.7	-166	-165	-162
		P6	1.22		-166	-165	-167
		P7	1.29	31.1	-163	-164	-164
		P8	1.37		-162	-167	-163
	7	P1	1.22	30.4	-166	-168	-163
		P2	1.20		-165	-167	-163
		P3	1.32	31.2	-167	-167	-165
		P4	1.24		-163	-163	-168
		P5	1.37	31.3	-167	-167	-163
		P6	1.23		-166	-167	-163
		P7	1.20	32.4	-164	-168	-166
		P8	1.27		-165	-163	-163
	12	P1	1.20	33.8	-165	-168	-162
		P2	1.26		-162	-168	-165
		P3	1.30	30.3	-166	-165	-168
		P4	1.28		-165	-164	-162
		P5	1.23	34.1	-168	-165	-163
		P6	1.29		-168	-163	-167
		P7	1.32	31.7	-162	-167	-164
		P8	1.28		-167	-164	-168

5. Performance of Radiation

Specification	Target	Frequency (MHz)	T2°							
			Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8
Gain(dBi)	18.4±0.3/ 18.8±0.3/ 19.3±0.3/ 19.4±0.6	1710	18.30	18.26	18.30	18.24	18.13	18.17	18.18	18.23
		1805	18.28	18.36	18.32	18.22	18.44	18.20	18.28	18.42
		1920	18.85	18.89	19.07	18.92	18.62	18.27	18.44	18.54
		2025	18.84	18.89	18.79	18.78	18.90	18.64	18.60	18.86
		2140	18.75	18.81	19.02	18.76	18.69	18.74	18.76	18.74
		2200	19.13	19.30	19.40	19.03	18.54	18.85	18.83	18.79
		2315	19.47	19.56	19.61	19.31	19.19	19.04	18.93	19.13
		2400	19.60	19.61	19.53	19.41	19.35	19.10	19.09	19.28
		2496	19.51	19.72	19.75	19.51	19.48	19.57	19.51	19.31
		2525	19.72	19.88	19.88	19.69	19.53	19.67	19.60	19.46
		2622	20.03	19.88	19.79	19.84	19.47	19.42	19.32	19.30
		2690	20.16	20.12	19.92	19.97	19.84	19.78	19.64	19.88
Vertical 3dB beamwidth (°)	9.0±0.4 / 8.1±0.3 / 7.2±0.3 / 6.5±0.3	1710	9.13	9.15	9.06	8.89	9.15	9.16	9.06	9.17
		1805	8.99	9.09	8.86	8.75	8.93	8.99	8.85	8.98
		1920	8.70	8.32	8.55	8.34	8.54	8.53	8.48	8.53
		2025	8.14	7.96	8.05	7.99	8.13	7.83	8.15	8.11
		2140	7.83	7.64	7.57	7.43	7.78	7.74	7.53	7.57
		2200	8.18	7.88	7.93	7.41	8.04	8.10	7.45	7.72
		2315	6.60	6.59	7.35	7.16	6.68	6.49	7.18	7.25
		2400	6.62	6.55	6.65	6.95	6.54	6.53	6.79	6.91
		2496	6.53	6.39	6.36	6.31	6.56	6.51	6.15	6.35
		2525	6.43	6.47	6.19	6.13	6.42	6.33	6.00	6.19
		2622	6.48	6.47	6.21	6.14	6.40	6.27	6.13	6.18
		2690	6.17	6.12	6.03	6.02	6.11	5.92	5.81	5.88
Horizontal 3dB beamwidth (°)	39±1.5 / 38±1.0 / 36±1.0 / 32±1.0	1710	40.41	40.37	40.41	40.42	40.44	40.34	40.28	40.48
		1805	40.18	40.37	39.60	40.38	39.86	39.29	38.87	38.64
		1920	38.84	39.71	38.54	40.24	39.42	38.69	39.38	38.33
		2025	38.24	40.09	39.06	38.59	39.70	38.53	38.80	39.16
		2140	37.35	36.80	37.05	36.32	37.97	37.71	37.35	37.88
		2200	36.16	36.13	36.33	35.44	36.69	36.47	36.13	37.09
		2315	36.71	35.68	37.21	37.36	35.92	36.89	37.08	37.04
		2400	35.49	34.89	36.10	35.69	35.79	36.48	36.45	36.72
		2496	33.22	33.08	33.50	33.61	32.86	33.41	32.19	33.58
		2525	33.49	33.57	32.99	33.19	32.88	32.61	31.77	32.94
		2622	33.50	32.54	33.57	32.64	32.96	32.17	32.93	32.88
		2690	31.30	31.87	32.23	31.90	31.58	30.91	31.17	31.58
Front-to-back ratio (dB)	>25	1710	31.24	33.02	29.82	34.79	32.54	32.04	32.76	31.38
		1805	29.63	31.27	30.78	27.88	33.33	29.10	30.18	30.55
		1920	29.26	30.73	28.21	30.13	29.38	32.23	30.13	31.30
		2025	31.19	28.97	29.63	28.56	30.44	28.60	28.79	28.22

	/ >28 / >27 / >27	2140	31.25	28.56	28.95	28.91	30.18	28.67	28.31	28.67
		2200	31.45	30.70	29.12	30.08	30.10	30.06	29.27	28.42
		2315	30.68	28.63	28.08	28.68	30.24	28.99	28.13	28.92
		2400	29.13	28.42	28.17	28.72	27.15	27.73	27.65	27.65
		2496	30.32	27.48	27.99	27.15	27.40	27.55	27.98	29.19
		2525	30.70	28.84	27.59	28.34	27.87	28.69	27.87	28.55
		2622	30.05	32.14	31.28	29.26	30.23	29.78	27.25	31.60
		2690	27.58	30.74	29.50	31.54	31.91	32.16	28.34	29.82
Main Cross polar ratio discrimination(dB)	>19 / >19 / >19 / >19	1710	20.93	19.79	20.16	19.75	19.38	23.19	19.85	22.90
		1805	21.10	19.11	20.78	19.60	19.23	21.67	19.81	22.63
		1920	24.84	21.20	25.33	19.19	25.76	23.63	22.77	22.93
		2025	23.13	23.81	29.21	23.52	25.37	25.81	27.34	29.81
		2140	23.87	21.86	31.73	23.45	22.87	24.34	25.71	32.92
		2200	29.83	20.22	30.32	19.82	23.35	25.99	24.95	28.49
		2315	26.51	25.47	39.56	22.65	35.83	23.92	28.10	30.80
		2400	25.06	20.38	28.20	24.60	23.80	24.47	27.26	26.63
		2496	28.20	23.50	33.18	21.00	24.29	25.88	22.38	32.30
		2525	24.12	19.92	45.00	20.82	22.23	22.90	23.44	29.80
		2622	21.84	19.54	23.62	19.93	21.50	23.73	20.54	21.65
		2690	20.21	19.30	20.53	19.44	21.40	21.75	20.84	19.28
Side lobe suppression(dB) (First side lobe above main beam)	>17	1710	17.75	17.72	19.50	17.53	18.24	17.39	20.64	21.53
		1805	20.96	17.38	20.98	17.02	17.22	17.09	17.80	19.65
		1920	20.99	17.39	20.15	17.98	19.24	20.94	18.35	21.13
		2025	18.03	20.46	18.00	17.87	17.36	19.84	21.11	18.29
		2140	17.50	17.42	17.14	17.26	18.90	18.99	17.36	17.57
		2200	21.34	18.35	21.01	17.29	20.41	22.95	18.74	21.99
		2315	29.82	26.25	25.81	22.97	32.69	31.40	26.24	22.72
		2400	17.82	22.68	17.59	18.48	17.46	23.39	18.23	18.46
		2496	21.08	21.70	19.92	17.62	17.33	20.58	18.10	17.82
		2525	22.59	23.14	17.42	20.12	17.95	21.89	18.08	17.96
		2622	19.20	22.87	19.57	19.73	18.37	22.31	17.25	17.78
		2690	22.53	20.61	17.00	17.39	19.57	19.96	18.78	19.17
Electrical downtilt (°)	2±1	1710	2.07	1.89	1.91	2.46	1.96	2.15	2.75	1.95
		1805	2.33	2.57	2.23	2.03	2.16	2.10	2.23	2.51
		1920	2.50	1.90	2.36	2.38	2.56	2.72	2.36	2.81
		2025	2.01	2.47	1.83	1.98	1.98	2.31	2.09	2.32
		2140	1.61	1.96	1.48	1.68	1.60	1.85	1.78	1.92
		2200	2.02	2.21	2.01	1.91	2.22	2.10	2.30	2.31
		2315	2.26	2.33	2.32	2.11	2.36	2.22	2.40	2.47
		2400	1.88	2.14	1.98	1.90	1.98	2.05	2.04	2.25
		2496	1.83	2.14	1.78	1.88	1.81	1.95	1.87	2.16
		2525	2.22	2.40	2.22	2.31	2.20	2.20	2.30	2.53
		2622	1.75	2.01	1.79	1.95	1.83	1.91	2.06	2.30
		2690	1.88	2.10	1.77	1.75	1.99	1.91	2.07	2.14

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Specification	Target	Frequency (MHz)	T7°							
			Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8
Gain(dBi)	18.4±0.3/ 18.8±0.3/ 19.3±0.3/ 19.4±0.6	1710	18.24	18.13	18.13	18.03	18.02	18.02	18.02	18.58
		1805	18.33	18.13	18.17	18.20	18.17	18.11	18.13	18.71
		1920	18.60	18.69	18.74	18.63	18.44	18.57	18.67	18.89
		2025	19.06	18.93	18.90	19.01	18.92	18.63	18.91	19.06
		2140	18.84	18.96	19.11	18.98	18.42	18.69	18.66	18.57
		2200	18.97	19.15	19.12	19.01	18.42	18.48	18.75	18.54
		2315	19.22	19.32	19.33	19.32	19.45	19.59	19.52	19.52
		2400	19.36	19.42	19.44	19.28	19.39	19.39	19.42	19.40
		2496	19.46	19.46	19.38	19.20	19.37	19.56	19.41	19.37
		2525	19.49	19.48	19.55	19.42	19.24	19.37	19.45	19.39
		2622	19.27	19.17	19.06	19.19	19.57	19.73	19.66	19.67
		2690	19.81	19.96	19.43	19.86	19.53	19.50	19.91	19.71
Vertical 3dB beamwidth (°)	9.0±0.4 / 8.1±0.3 / 7.2±0.3 / 6.5±0.3	1710	9.15	9.17	9.00	9.08	9.17	9.22	9.09	9.12
		1805	9.45	8.85	8.66	8.65	8.80	9.05	8.98	8.78
		1920	8.53	8.48	8.19	8.23	8.43	8.60	8.07	8.17
		2025	8.37	8.17	8.17	7.97	8.33	8.30	7.61	8.03
		2140	7.89	7.66	8.03	7.84	8.03	7.97	7.99	8.03
		2200	7.34	7.16	7.25	7.37	7.19	7.25	7.55	7.60
		2315	7.03	7.17	6.92	6.77	7.09	6.92	6.99	6.96
		2400	6.81	6.83	6.73	6.59	6.86	6.74	6.41	6.57
		2496	6.57	6.74	6.44	6.53	6.65	6.65	6.56	6.53
		2525	6.52	6.57	6.50	6.47	6.68	6.59	6.53	6.49
		2622	6.17	6.19	6.24	6.21	6.01	6.02	6.10	6.19
		2690	5.81	5.87	5.82	5.86	5.97	5.89	5.74	5.82
Horizontal 3dB beamwidth (°)	39±1.5 / 38±1.0 / 36±1.0 / 32±1.0	1710	40.46	40.49	40.18	40.47	40.78	40.48	40.27	40.42
		1805	39.58	40.24	39.81	40.05	40.14	39.77	39.15	38.45
		1920	38.89	40.16	38.14	40.48	39.81	38.64	39.24	38.47
		2025	38.78	38.94	38.54	38.71	38.74	38.65	38.75	38.93
		2140	37.10	37.18	37.36	36.58	37.80	38.03	37.01	37.87
		2200	35.43	35.45	36.13	36.02	36.36	36.53	36.53	37.03
		2315	37.38	36.89	37.64	37.59	37.14	37.87	37.50	38.20
		2400	35.88	35.64	36.22	35.35	36.00	36.37	36.31	36.74
		2496	33.08	33.21	33.31	33.40	32.75	33.38	32.47	33.18
		2525	32.87	32.86	33.13	33.11	32.57	33.10	32.23	32.96
		2622	32.55	32.38	33.00	33.16	32.56	31.90	32.67	32.98
		2690	31.67	32.00	32.43	31.50	31.58	31.14	30.98	31.53
Front-to-back ratio (dB)	>25 / 	1710	31.47	30.95	29.72	33.42	32.97	30.53	30.43	31.15
		1805	32.03	29.49	28.53	33.10	27.71	29.16	30.28	28.73
		1920	28.40	29.64	28.20	32.63	30.10	31.74	30.64	28.58
		2025	30.45	31.28	31.33	29.56	32.98	29.67	30.82	29.55
		2140	30.71	29.64	29.01	28.29	33.84	28.51	28.96	28.97

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	>28 / >27 / >27	2200	29.93	29.94	28.01	28.15	28.83	28.24	28.43	28.13
		2315	28.10	31.01	28.53	30.94	29.16	29.93	28.82	29.85
		2400	30.99	29.79	28.48	31.35	30.48	29.38	30.05	27.27
		2496	30.13	33.38	30.06	31.38	31.73	32.67	29.74	33.29
		2525	31.65	35.99	31.66	29.96	30.34	32.64	28.77	31.49
		2622	32.40	31.76	30.74	31.15	30.60	35.55	31.39	32.69
		2690	31.45	30.24	30.84	30.10	33.15	32.94	32.55	29.23
Main Cross polar ratio discrimination(dB)	>19 / >19 / >19 / >19	1710	21.41	19.93	20.68	19.83	19.01	22.40	19.12	22.82
		1805	20.51	19.81	22.64	19.71	19.97	21.24	20.14	23.86
		1920	23.56	21.39	29.26	20.11	24.39	24.61	22.85	25.69
		2025	22.55	21.90	28.98	20.98	23.72	24.90	24.08	30.53
		2140	25.63	23.29	31.77	20.41	27.51	27.27	23.25	34.82
		2200	23.65	19.31	33.02	19.66	23.58	22.71	22.08	27.71
		2315	31.91	22.50	30.38	28.01	25.50	33.98	31.05	37.54
		2400	30.83	22.15	36.92	24.63	26.03	34.83	31.31	40.26
		2496	28.30	19.21	33.84	20.44	24.71	28.34	25.10	31.08
		2525	30.01	19.46	33.00	20.01	24.74	29.28	24.23	29.05
		2622	25.71	20.08	23.83	23.23	23.24	26.83	23.03	23.66
		2690	25.93	19.35	22.11	22.77	23.27	26.79	22.62	23.35
Side lobe suppression(dB) (First side lobe above main beam)	>17	1710	19.64	18.84	18.29	18.37	18.25	20.53	17.39	19.43
		1805	23.60	19.13	18.97	18.10	19.51	25.11	18.63	19.11
		1920	20.22	19.69	18.88	17.44	19.98	22.27	18.50	20.46
		2025	18.87	20.21	19.18	20.06	20.44	17.22	19.68	18.82
		2140	19.25	21.44	19.33	19.79	21.93	22.84	19.23	18.42
		2200	21.72	21.63	18.81	17.05	20.14	23.89	17.71	20.56
		2315	20.73	23.66	17.88	19.36	20.13	20.89	20.54	20.10
		2400	20.43	20.95	19.75	21.62	17.05	22.48	19.98	20.04
		2496	20.42	21.74	18.57	18.81	22.02	21.25	18.34	17.62
		2525	18.93	20.20	17.04	17.80	18.97	19.59	18.27	18.53
		2622	23.60	23.29	20.05	18.42	24.20	23.15	19.10	19.91
		2690	20.14	23.07	18.71	19.83	19.55	20.62	18.07	19.18
Electrical downtilt (°)	7±1	1710	7.07	6.70	7.59	7.43	6.86	7.46	6.66	6.90
		1805	6.61	6.81	7.56	7.65	6.93	7.04	6.64	6.77
		1920	6.64	6.64	7.48	7.48	6.89	6.81	6.60	6.67
		2025	6.71	6.62	7.70	7.54	7.12	6.76	6.70	6.68
		2140	6.68	6.64	7.71	7.60	7.08	6.76	6.63	6.67
		2200	6.99	7.02	7.33	7.05	7.26	7.15	6.76	6.80
		2315	6.91	6.88	7.08	7.35	7.19	7.22	6.89	7.01
		2400	6.89	6.88	7.17	7.40	7.22	7.09	6.97	6.94
		2496	7.10	7.08	7.09	7.01	7.42	7.36	7.02	7.03
		2525	6.90	7.03	7.06	7.17	7.24	7.27	6.87	6.97
		2622	7.05	7.06	7.06	7.29	7.45	7.34	6.99	7.10
		2690	7.16	7.19	7.48	7.21	7.41	7.45	6.92	7.02
Specification	Target	Frequency	T12°							

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		(MHz)	Port1	Port2	Port3	Port4	Port5	Port6	Port7	Port8
Gain(dBi)	18.4±0.3/ 18.8±0.3/ 19.3±0.3/ 19.4±0.6	1710	18.12	18.11	18.14	18.13	18.10	18.15	18.11	18.17
		1805	18.22	18.21	18.49	18.12	18.16	18.20	18.20	18.27
		1920	18.56	18.58	18.52	18.51	18.70	18.72	18.46	18.56
		2025	18.76	18.63	18.61	18.50	18.56	18.47	18.79	18.82
		2140	18.87	18.91	18.98	18.83	18.40	18.62	18.73	18.38
		2200	18.28	18.66	18.48	18.23	18.58	18.85	18.88	18.52
		2315	19.06	19.29	19.23	18.97	19.30	19.31	19.38	19.21
		2400	19.04	19.31	18.95	18.99	18.79	19.01	19.25	18.85
		2496	19.07	19.38	19.13	19.11	19.11	19.00	19.04	19.10
		2525	19.35	19.72	19.40	19.45	18.55	19.20	19.14	18.94
		2622	19.47	19.71	19.46	19.43	19.01	19.46	19.56	19.40
		2690	19.25	19.34	19.34	19.18	19.14	19.02	19.59	19.04
Vertical 3dB beamwidth (°)	9.0±0.4 / 8.1±0.3 / 7.2±0.3 / 6.5±0.3	1710	9.11	9.17	9.30	9.25	9.12	9.14	9.19	9.12
		1805	8.69	8.66	8.50	8.33	9.05	9.04	8.94	8.87
		1920	8.91	8.64	8.46	8.89	8.85	8.70	8.83	8.92
		2025	7.61	7.62	8.62	8.44	7.67	7.68	8.20	8.55
		2140	7.86	7.71	7.79	7.97	7.94	7.67	7.90	7.79
		2200	7.38	7.25	7.35	7.27	7.38	7.35	7.26	7.22
		2315	7.27	7.15	6.98	7.04	7.21	7.21	7.08	7.15
		2400	6.67	6.93	6.81	6.64	7.14	6.85	6.79	6.82
		2496	6.13	6.34	6.57	6.38	6.54	6.31	6.47	6.55
		2525	6.17	6.40	6.37	6.30	6.45	6.40	6.27	6.35
		2622	5.97	6.24	6.29	6.30	6.29	6.23	6.18	6.20
		2690	6.12	6.07	6.02	5.87	6.09	5.92	6.09	6.07
Horizontal 3dB beamwidth (°)	39±1.5 / 38±1.0 / 36±1.0 / 32±1.0	1710	41.19	40.43	40.48	40.48	40.49	40.45	40.33	40.11
		1805	39.55	40.18	40.01	39.41	39.60	40.39	40.25	38.96
		1920	38.68	40.54	38.51	40.61	40.97	39.13	39.73	38.98
		2025	38.77	39.19	38.78	38.77	39.36	38.96	38.90	38.77
		2140	37.47	37.05	37.36	36.96	38.45	38.41	37.82	38.16
		2200	36.15	35.99	36.10	35.19	36.03	36.72	36.45	36.54
		2315	36.50	37.10	37.02	35.90	36.70	36.30	35.84	36.95
		2400	35.64	36.70	35.89	35.39	36.01	35.42	35.35	35.88
		2496	33.24	33.55	33.30	32.69	32.77	32.96	32.59	33.09
		2525	32.97	33.13	32.98	32.74	32.54	32.95	31.96	32.68
		2622	33.12	32.60	33.00	32.65	32.55	32.27	32.13	32.78
		2690	32.23	31.91	32.03	31.80	31.71	31.51	31.84	31.67
Front-to-back ratio (dB)	>25 / >28 /	1710	30.96	27.24	30.79	30.75	29.34	30.28	30.88	30.51
		1805	31.02	30.24	28.37	30.59	27.42	30.85	27.80	29.81
		1920	32.35	28.88	28.34	32.45	30.76	30.96	32.99	30.77
		2025	29.63	31.31	31.17	28.48	31.84	32.22	32.83	28.90
		2140	29.54	29.08	28.18	28.69	32.25	29.11	28.69	25.00
		2200	28.18	32.98	28.74	28.47	32.92	28.97	29.04	30.00
		2315	29.18	33.97	28.78	31.13	32.98	29.25	32.19	31.14

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	>27 / >27	2400	31.49	28.93	28.32	29.85	29.13	27.67	30.17	28.15
		2496	36.02	35.67	32.33	31.12	32.50	33.98	32.96	31.43
		2525	32.16	35.09	30.69	31.02	29.76	34.04	30.00	30.36
		2622	31.75	34.07	29.12	32.30	29.23	30.81	27.87	34.05
		2690	30.95	31.41	31.54	30.56	31.58	30.40	33.90	29.16
Main Cross polar ratio discrimination(dB)	>19 / >19 / >19 / >19	1710	20.76	19.50	20.82	19.73	19.71	23.08	19.03	23.26
		1805	21.48	20.35	25.30	19.99	20.61	22.29	21.20	26.39
		1920	23.82	20.01	48.05	20.40	23.07	25.64	22.74	30.50
		2025	22.70	21.84	25.59	20.28	25.31	25.44	22.44	26.39
		2140	25.15	21.15	43.06	22.68	22.42	26.70	25.74	32.02
		2200	30.83	22.36	38.91	24.15	25.26	30.25	28.21	35.14
		2315	30.42	25.75	27.87	26.71	27.24	42.33	30.05	35.54
		2400	29.26	22.63	27.39	23.33	26.88	37.72	29.06	39.45
		2496	27.67	20.39	31.92	20.32	24.50	33.65	24.86	46.81
		2525	27.94	20.25	34.08	19.73	24.01	32.84	23.90	52.04
		2622	29.30	19.95	29.72	19.85	25.58	33.12	24.36	30.55
		2690	27.81	20.09	24.40	19.82	24.98	33.78	27.16	26.93
Side lobe suppression(dB) (First side lobe above main beam)	>17	1710	17.40	20.02	18.09	17.50	20.40	18.45	17.96	20.36
		1805	17.67	17.64	20.92	21.45	20.77	17.67	24.45	22.81
		1920	24.88	21.13	20.31	22.39	24.99	17.06	24.28	22.72
		2025	18.65	18.77	18.39	19.09	19.58	17.98	21.62	18.32
		2140	17.21	17.65	17.95	18.65	19.46	18.07	19.72	18.64
		2200	19.19	20.26	21.94	20.88	20.70	22.77	19.45	20.19
		2315	20.93	18.02	21.70	22.19	20.80	23.43	20.85	19.79
		2400	17.55	17.42	19.95	21.06	20.66	20.03	20.87	20.78
		2496	19.71	18.54	17.83	17.96	18.82	21.74	18.45	18.53
		2525	17.43	17.65	18.84	19.77	20.12	17.53	18.89	19.27
		2622	20.17	19.79	19.13	19.41	20.57	17.02	19.12	20.27
		2690	19.20	18.49	18.41	18.51	18.35	19.60	17.61	17.61
Electrical downtilt (°)	12±1	1710	11.50	11.57	12.45	11.87	12.16	12.02	11.33	11.96
		1805	11.52	11.46	12.20	12.24	12.42	12.68	11.74	11.94
		1920	11.43	11.75	12.39	12.50	12.68	12.06	11.85	12.11
		2025	11.92	11.52	11.81	11.94	12.27	12.48	11.62	11.66
		2140	11.87	11.39	12.00	12.27	12.18	12.40	11.79	11.66
		2200	11.38	11.60	12.57	12.62	12.55	12.59	12.37	12.33
		2315	11.79	11.89	12.62	12.79	12.68	12.53	12.69	12.52
		2400	11.39	11.82	12.57	12.78	12.65	12.67	12.30	12.28
		2496	11.41	11.74	12.56	12.69	12.70	12.77	12.20	12.35
		2525	11.56	11.64	12.77	12.74	12.69	12.73	12.50	12.68
		2622	11.65	11.74	12.63	12.18	12.79	12.65	12.35	12.48
		2690	11.45	11.57	12.81	12.78	12.78	12.64	12.38	12.46

6. Test conclusion

According to client's request and provided standard, test is done to T0004M3R011 , and the result is compliant to client's specification.

Tested by: 王军

Checked by: 李翔

Authorized by:陈海涛

Date:

Date:

Date: