

Amigo MS30-N

Jun, 2024
Japan Aviation Electronics
Engineer: Jasper





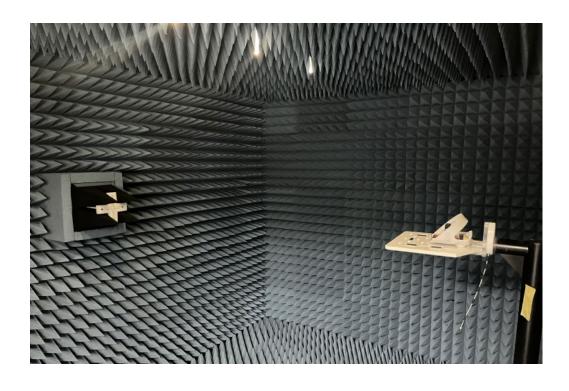




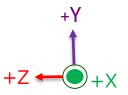


Measurement Environment







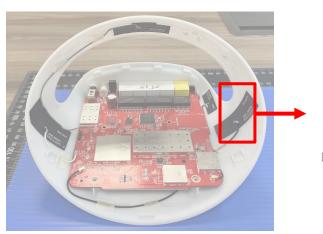




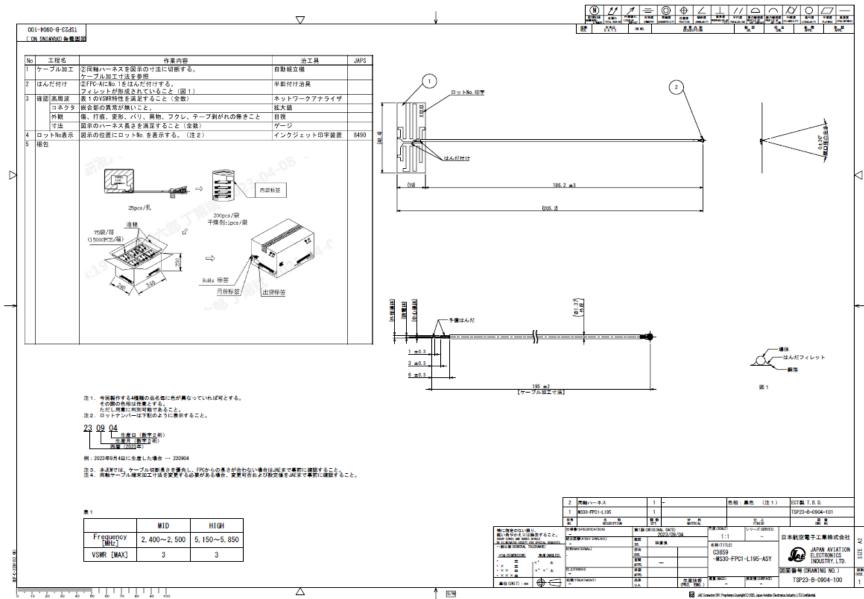
Ant1 Photo & mechanical chart





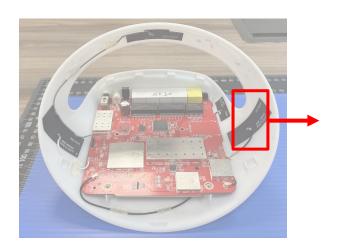




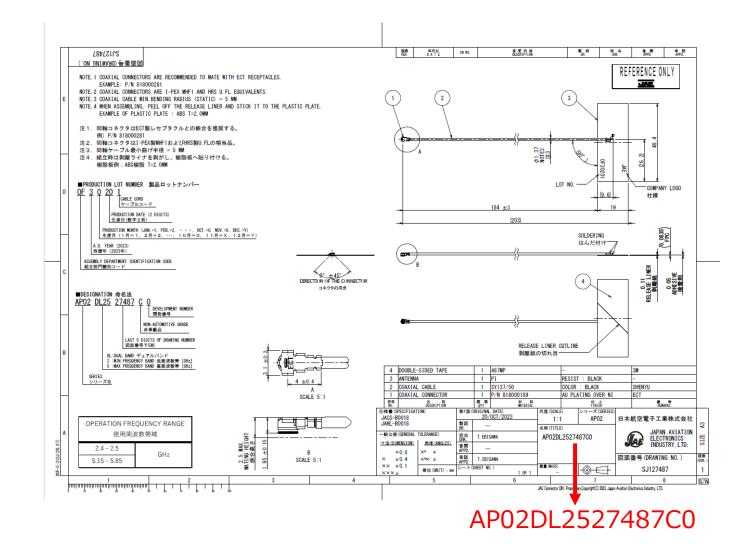


Ant1 Photo & mechanical chart





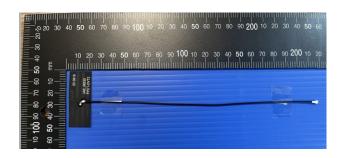






Ant1 Information





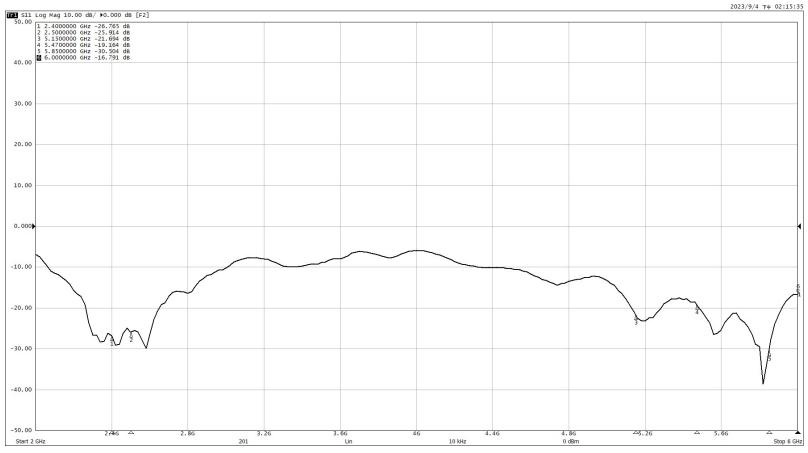
Antenna Type	Dipole	
Frequency(MHz)	2400-2500 5180-5875	
Material	FPCB	
Connector	MHF	
Cable type	1.37Ø	
Cable length	195mm	
Polarization	Linear	



Ant1 S-Parameter





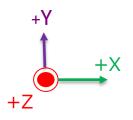




Ant1 Peak gain & Avg Gain & Efficiency





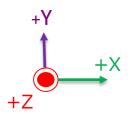


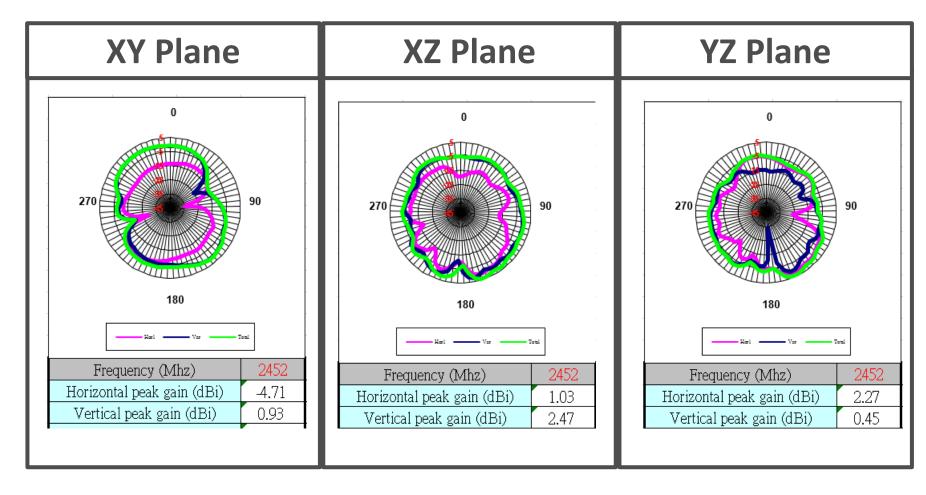
Frequency(MHz)	Peak Gain(dBi)	3D Avg Gain(dBi)	Efficiency(%)
2412	0.96	-1.21	76
2422	1.1	-1.30	74
2437	1.19	-1.51	71
2442	1.25	-1.55	70
2452	1.27	-1.58	70
2484	1.4	-1.58	69
5180	1.79	-1.86	65
5260	1.81	-1.77	66
5320	1.88	-1.90	65
5500	1.98	-2.13	61
5560	1.73	-2.10	62
5660	1.81	-2.04	62
5700	1.79	-1.96	64
5745	1.64	-1.85	65
5785	1.88	-1.90	65
5805	1.69	-1.87	65
5875	1.18	-1.95	64





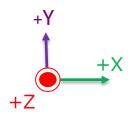




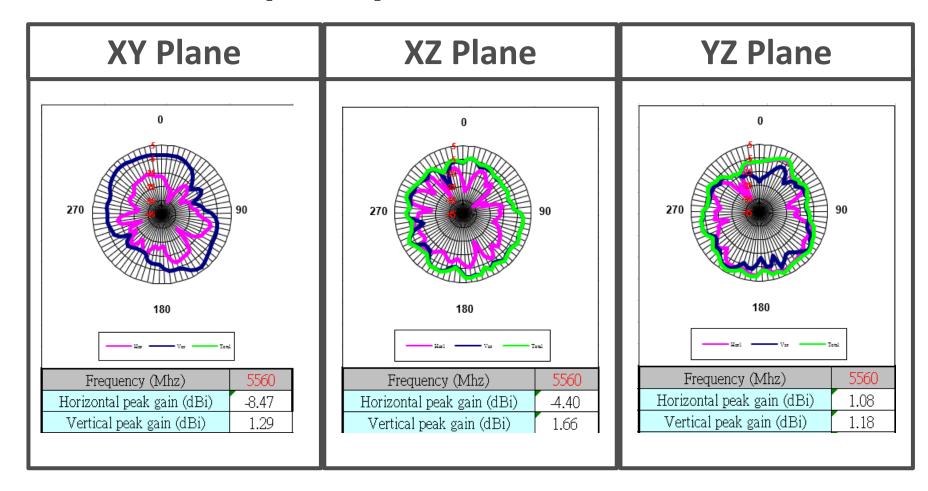






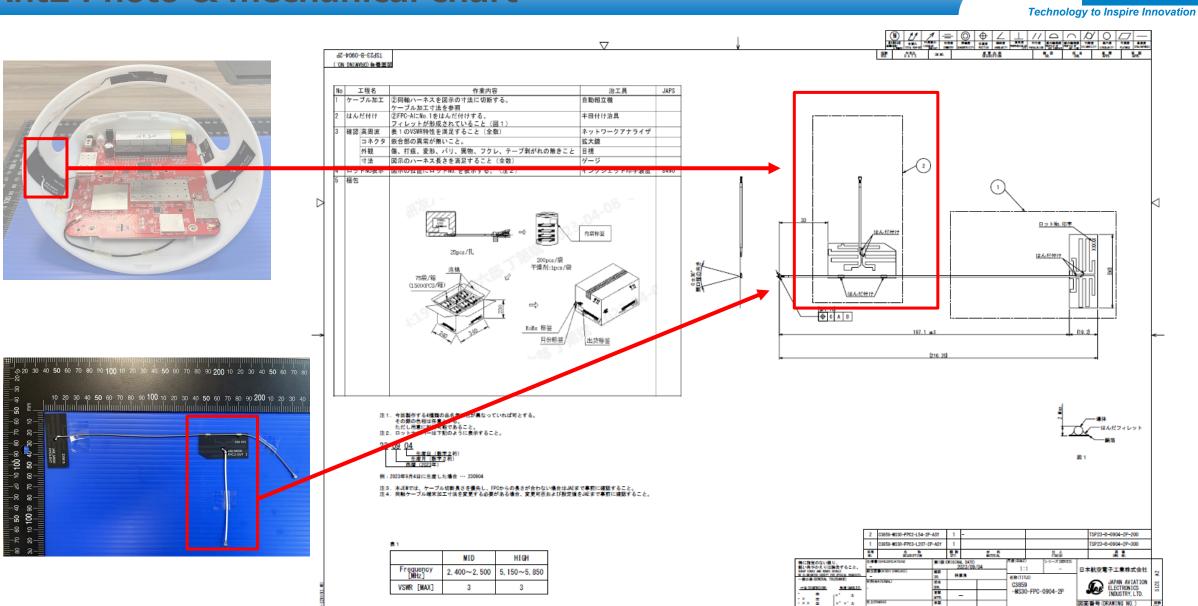


Frequency: 5560 MHz



Ant2 Photo & mechanical chart





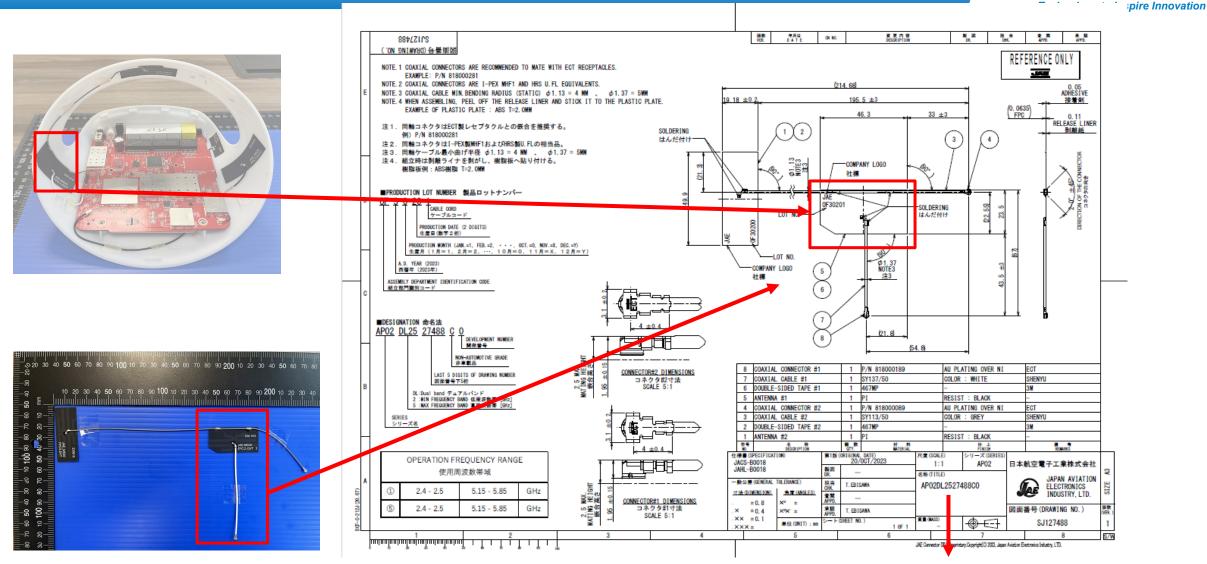


TSP23-B-0904-2P

MR (INI) : m (D)

Ant2 Photo & mechanical chart



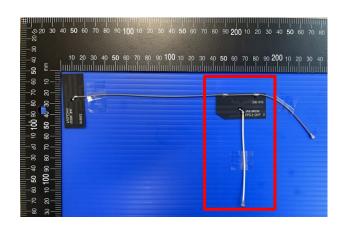


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Ant2 Information



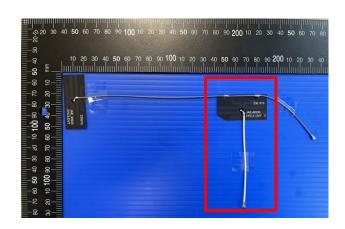


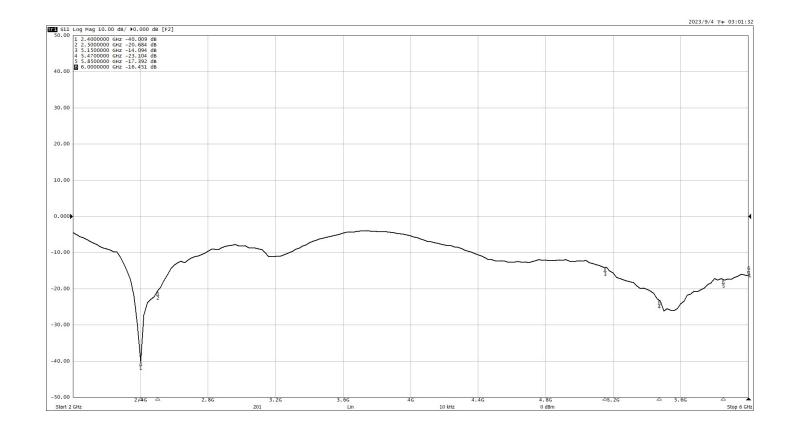
Antenna Type	Dipole	
Frequency(MHz)	2400-2500 5180-5875	
Material	FPCB	
Connector	MHF	
Cable type	1.37Ø	
Cable length	54mm	
Polarization	Linear	



Ant2 S-Parameter





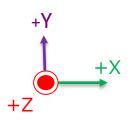




Ant2 Peak gain & Avg Gain & Efficiency



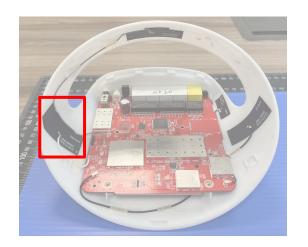


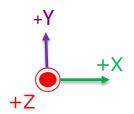


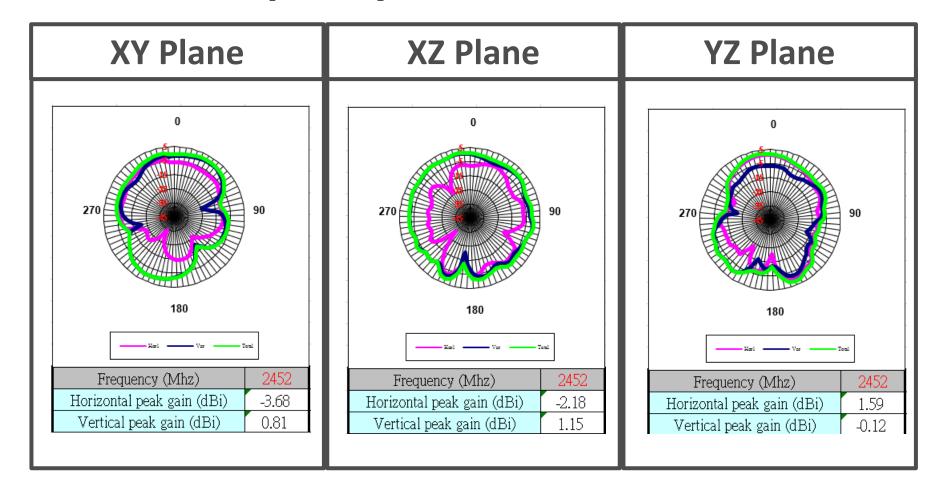
Frequency(MHz)	Peak Gain(dBi)	3D Avg Gain(dBi)	Efficiency(%)
2412	1.65	-1.39	73
2422	1.79	-1.57	70
2437	1.47	-1.89	65
2442	1.4	-1.95	64
2452	1.48	-1.97	64
2484	1.73	-1.72	67
5180	1.64	-1.07	78
5260	1.55	-1.13	77
5320	1.73	-1.27	75
5500	1.6	-1.73	67
5560	1.87	-1.62	69
5660	2.01	-1.51	71
5700	2.1	-1.47	71
5745	2.08	-1.40	72
5785	2.11	-1.44	72
5805	2.15	-1.41	72
5875	2.19	-1.43	72





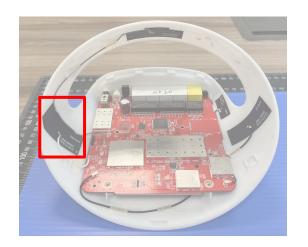


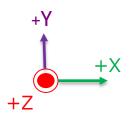




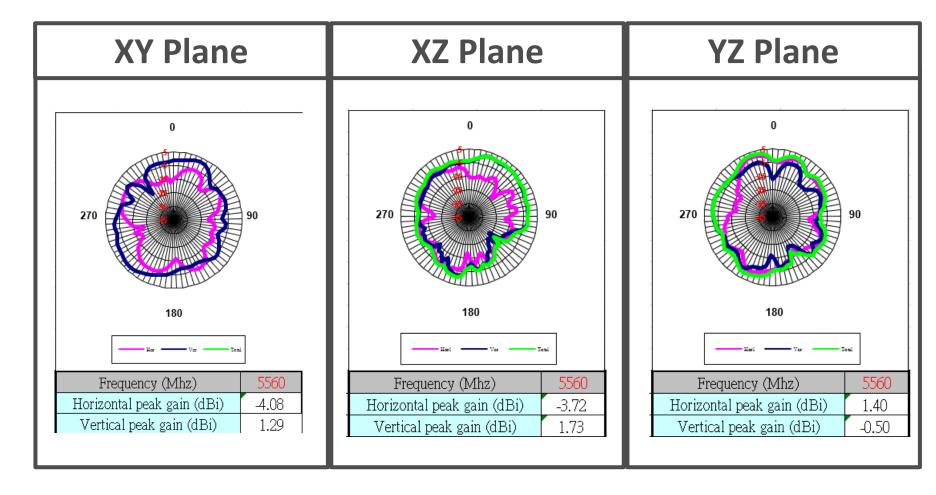








Frequency: 5560 MHz

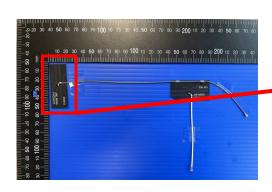


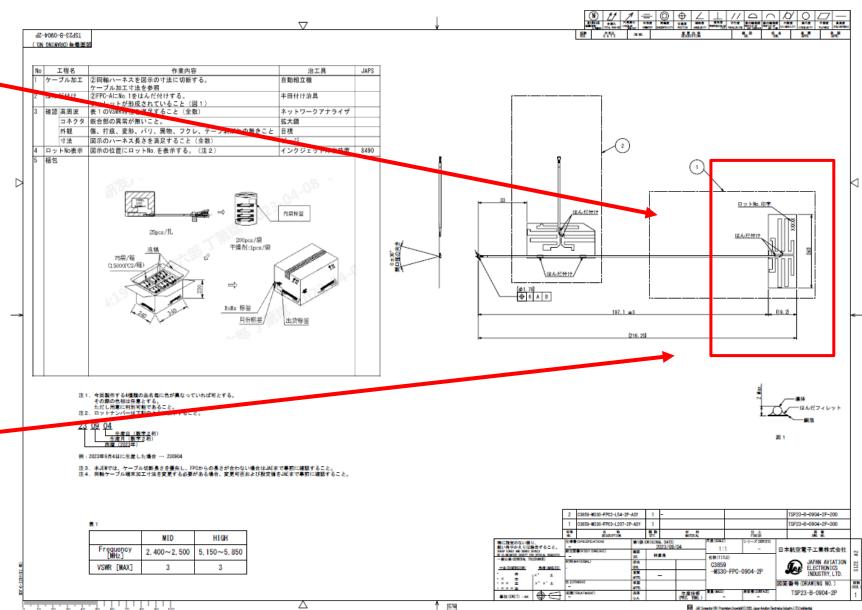
Ant3 Photo & mechanical chart







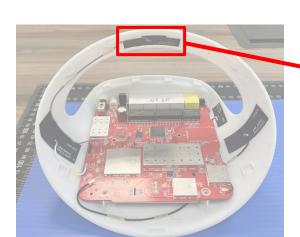


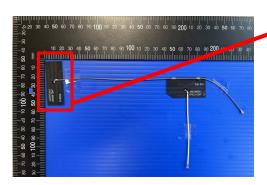


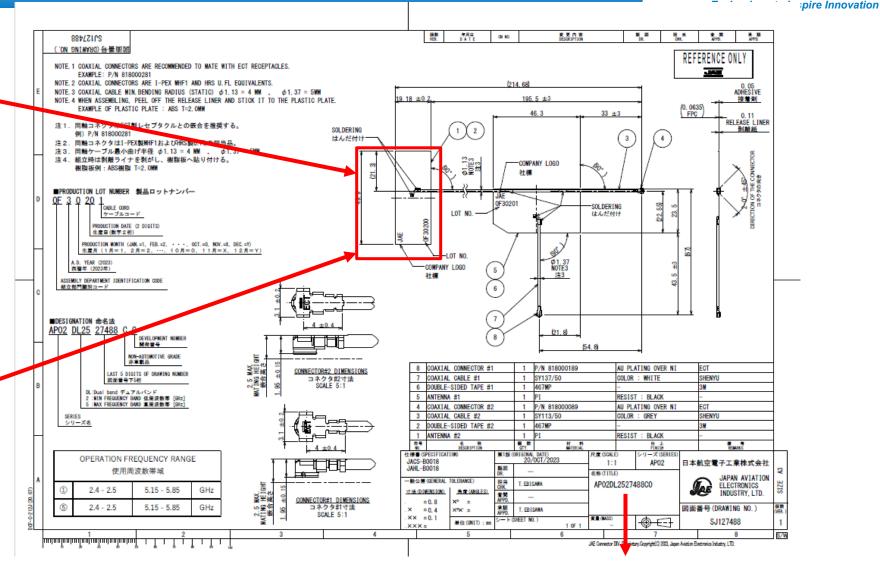


Ant3 Photo & mechanical chart







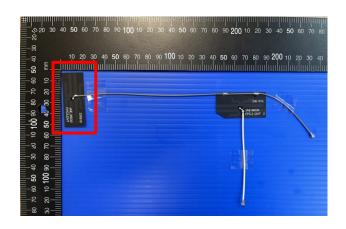


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Ant3 Information



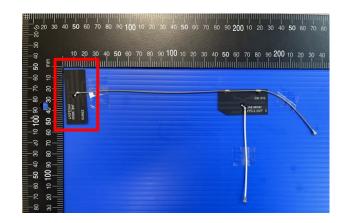


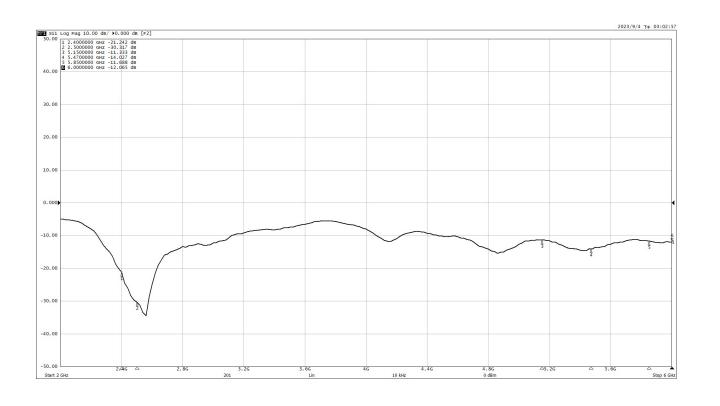
Antenna Type	Dipole	
Frequency(MHz)	2400-2500 5180-5875	
Material	FPCB	
Connector	MHF	
Cable type	1.13Ø	
Cable length	207mm	
Polarization	Linear	



Ant3 S-Parameter





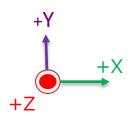




Ant3 Peak gain & Avg Gain & Efficiency





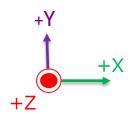


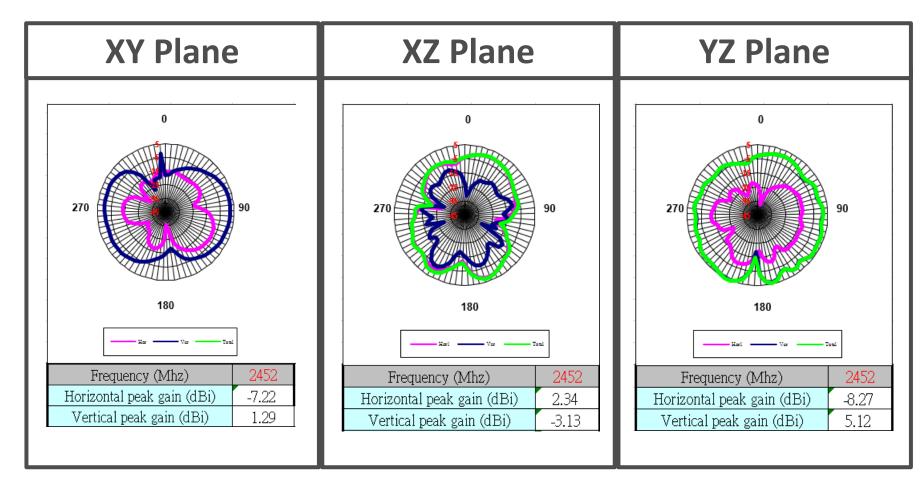
Frequency(MHz)	Peak Gain(dBi)	3D Avg Gain(dBi)	Efficiency(%)
2412	1.75	-1.30	74
2422	1.72	-1.37	73
2437	1.73	-1.58	69
2442	1.71	-1.62	69
2452	1.78	-1.66	68
2484	1.75	-1.72	67
5180	1.48	-2.81	52
5260	2	-2.64	54
5320	2.11	-2.56	56
5500	1.53	-3.15	48
5560	1.58	-3.16	48
5660	2.11	-3.05	50
5700	2.07	-2.88	52
5745	2.1	-2.69	54
5785	2.17	-2.71	54
5805	2.12	-2.67	54
5875	2.14	-2.81	52





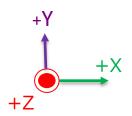




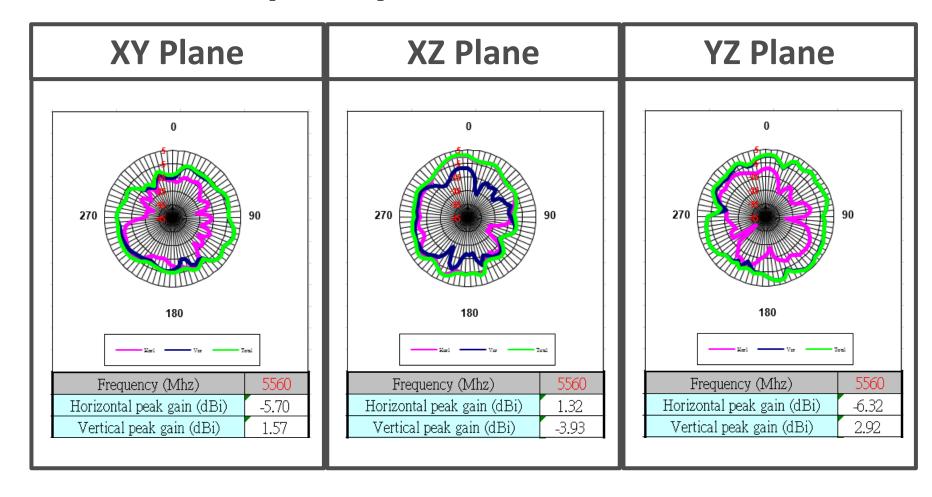








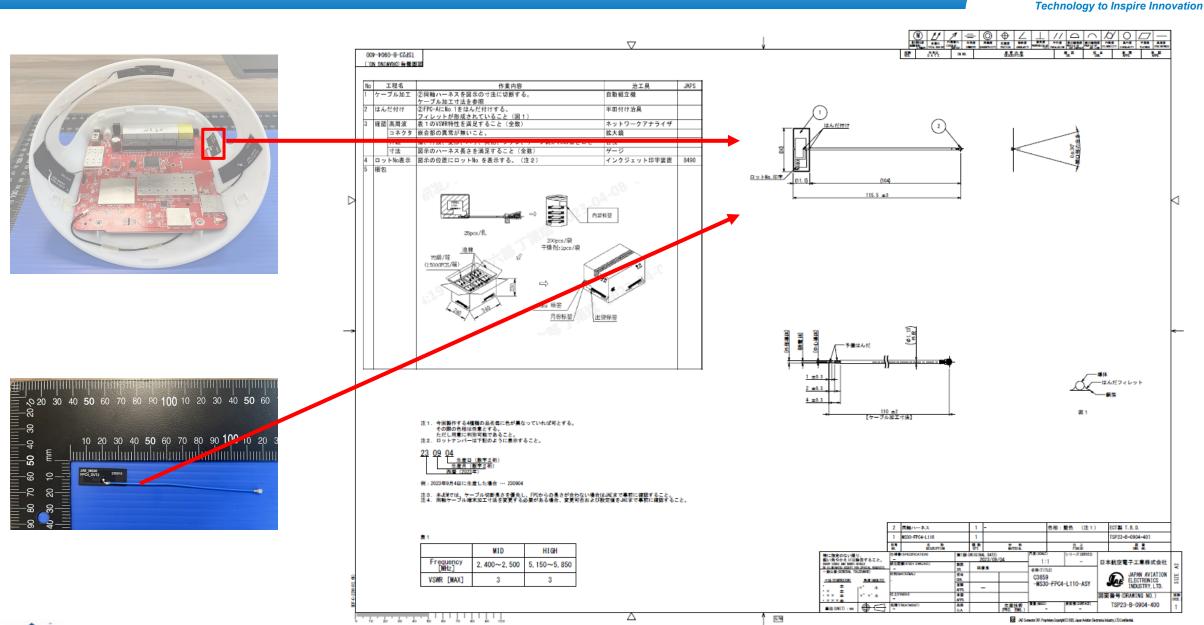
Frequency: 5560 MHz





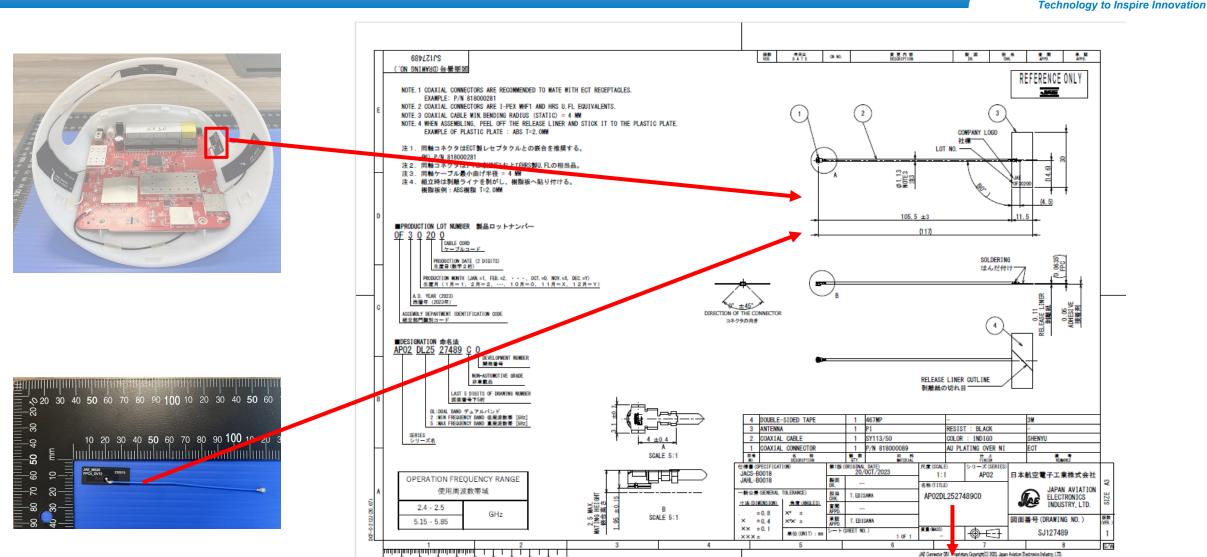
Ant4 Photo & mechanical chart





Ant4 Photo & mechanical chart



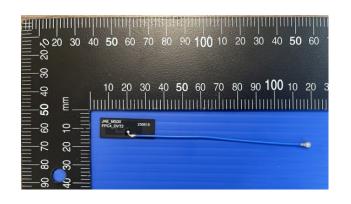


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Ant4 Information





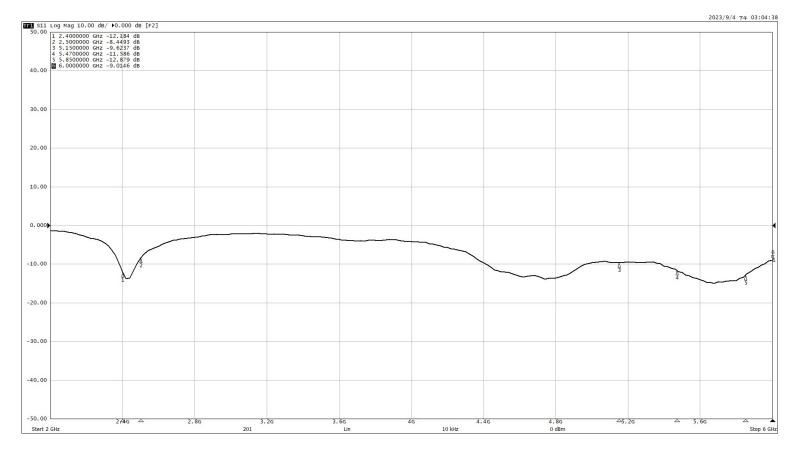
Antenna Type	Dipole	
Frequency(MHz)	2400-2500	
Material	FPCB	
Connector	MHF	
Cable type	1.13Ø	
Cable length	110mm	
Polarization	Linear	



Ant4 S-Parameter







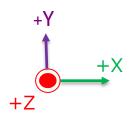


Ant4 Peak gain & Avg Gain & Efficiency





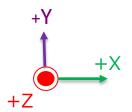
Frequency(MHz)	Peak Gain(dBi)	3D Avg Gain(dBi)	Efficiency(%)
2412	0.29	-3.46	45
2422	0.34	-3.45	45
2437	0.31	-3.44	45
2442	0.16	-3.58	44
2452	0.21	-3.60	44
2484	0.28	-3.66	43

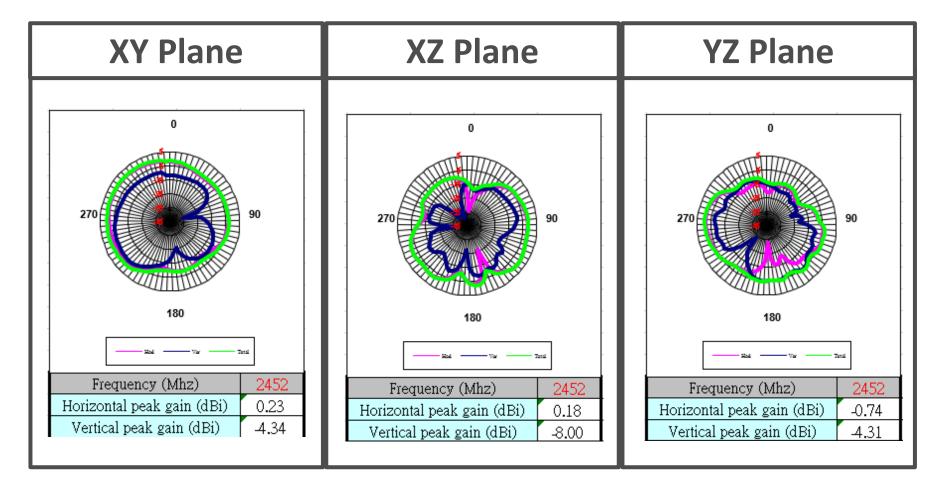








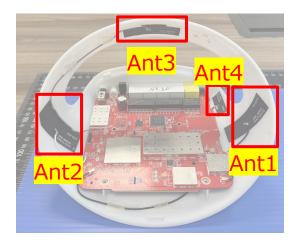


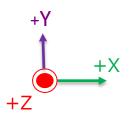


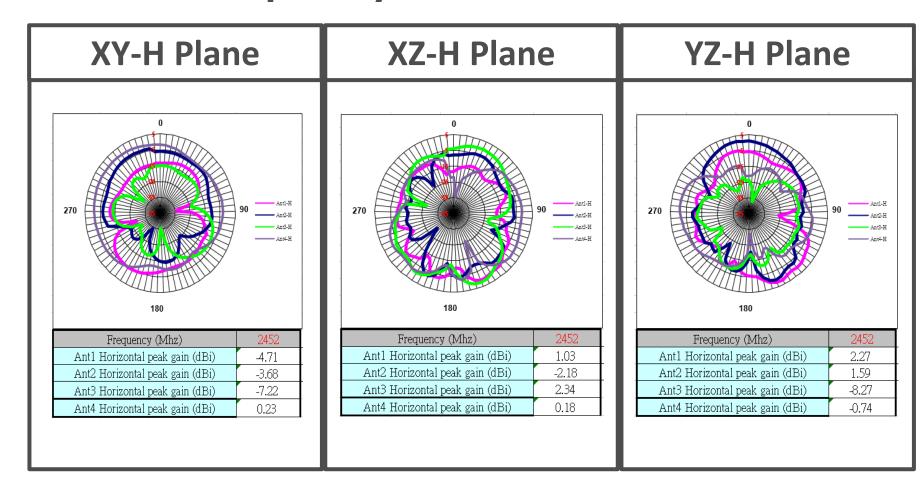


Ant1-4 Pattern



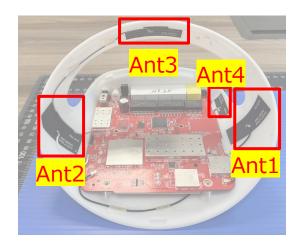


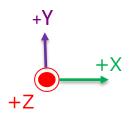


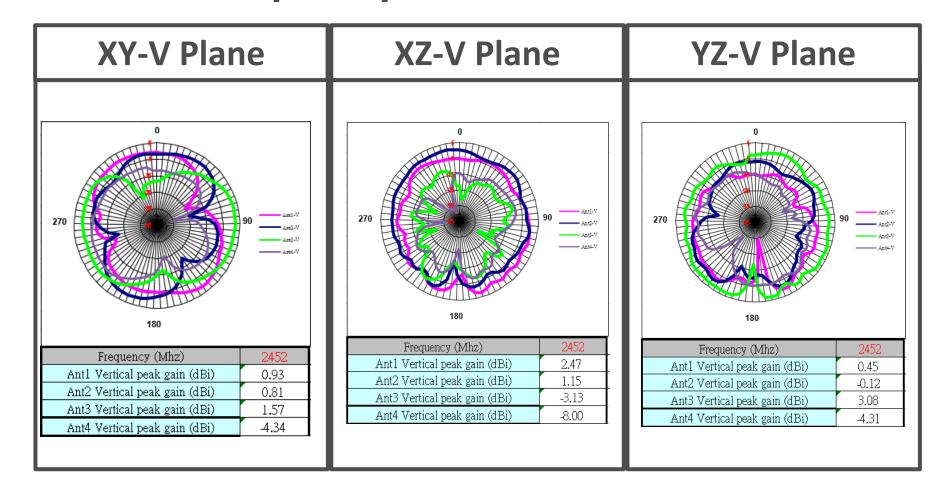








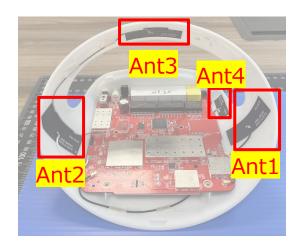


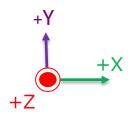




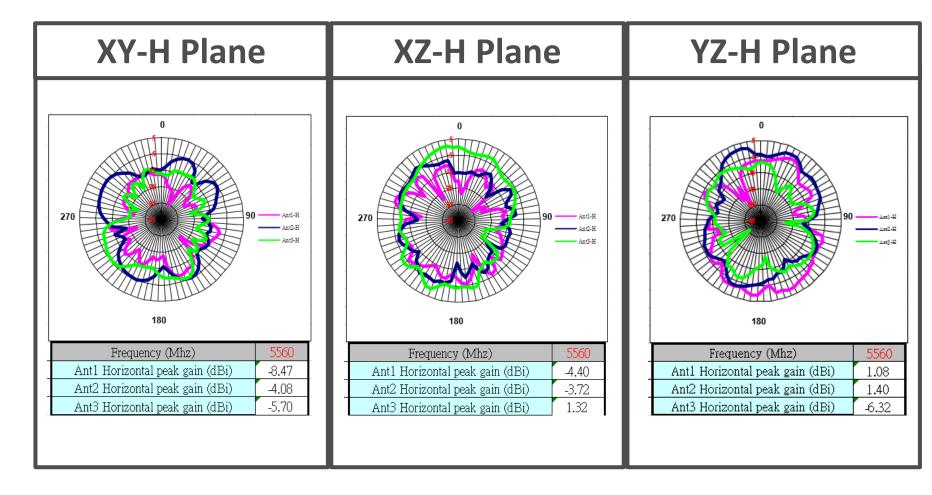
Ant1-4 Pattern







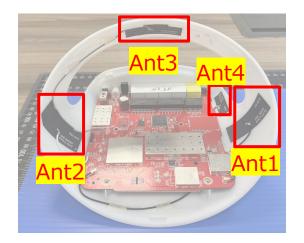
Frequency: 5560 MHz

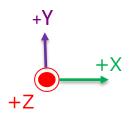




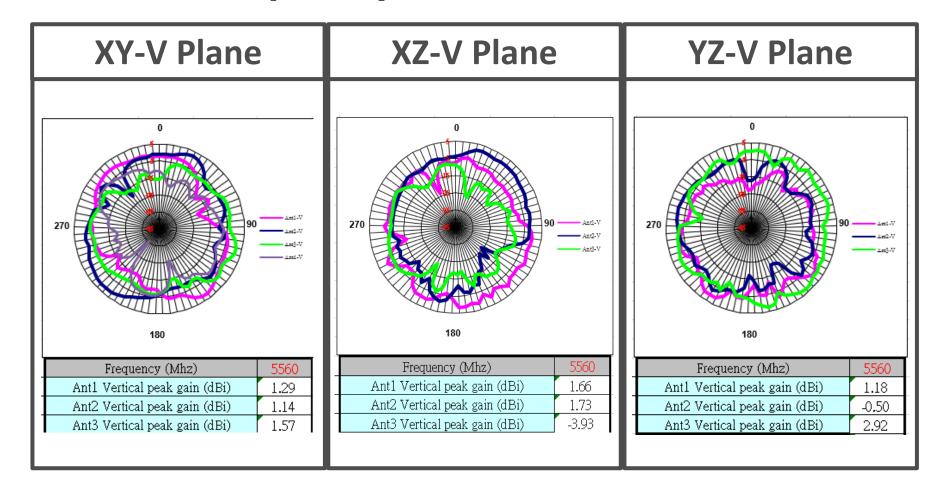
Ant1-4 Pattern







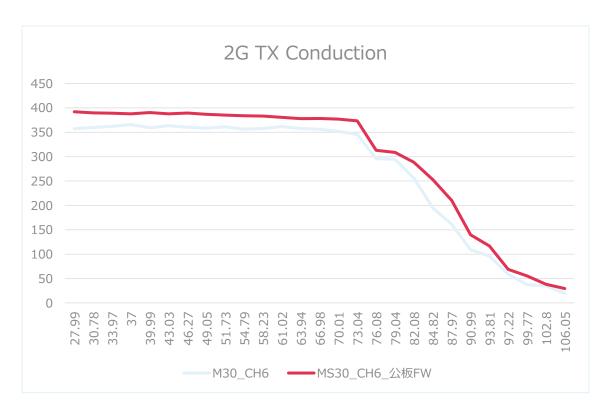
Frequency: 5560 MHz

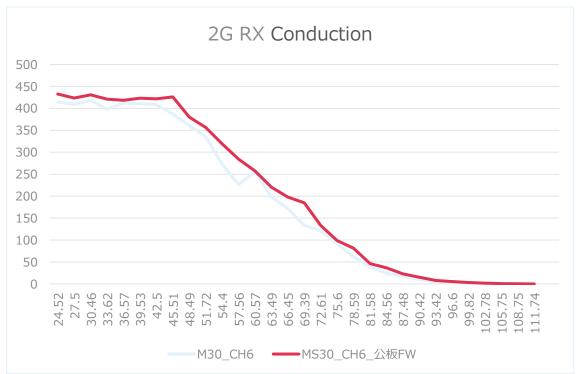




Active measurement (2G Conduction)



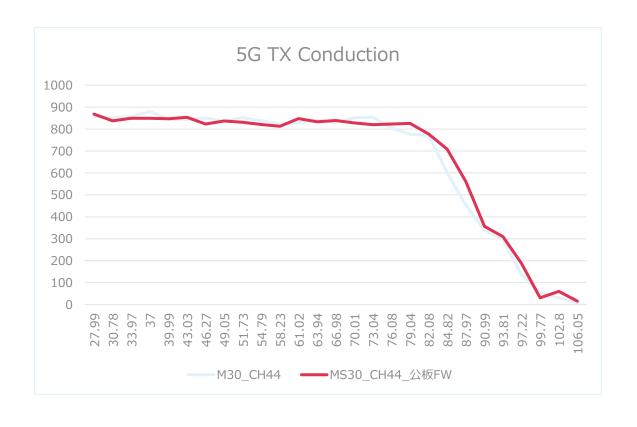


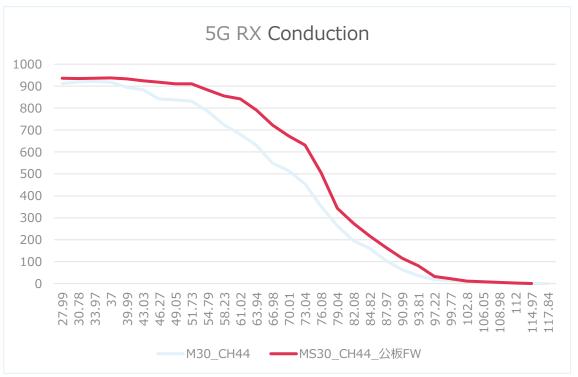




Active measurement (5G Conduction)



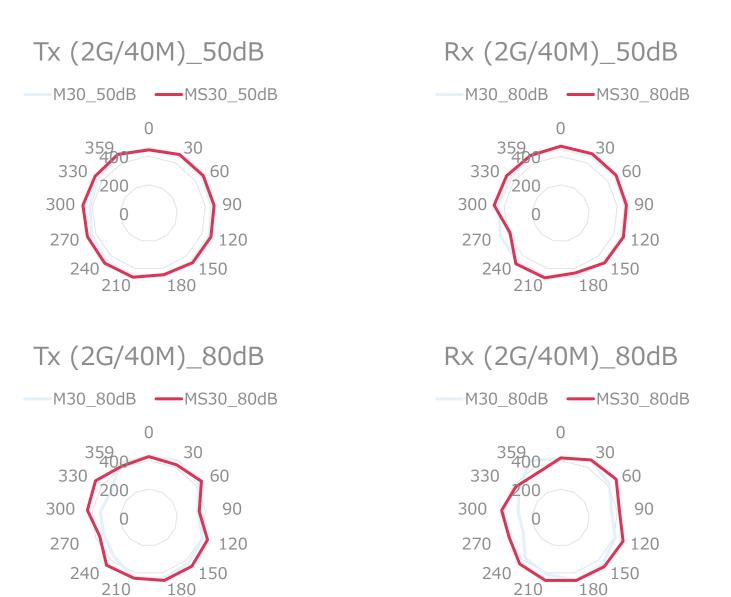






Active measurement RVR360 2G/40M



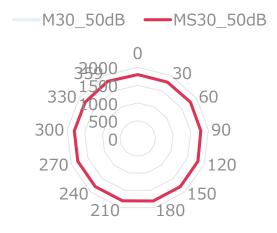




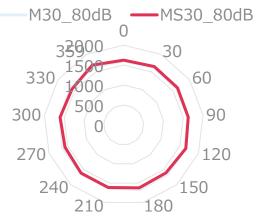
Active measurement RVR360 5G/160M



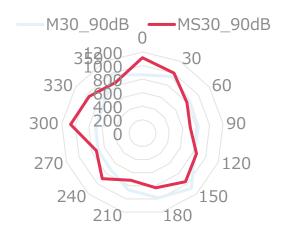
Tx (5G/160M)_60dB



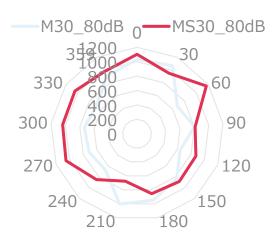
Rx (5G/160M)_60dB



Tx (5G/160M)_90dB



Rx (5G/160M)_90dB







Thank you

