

CONMOD MTK NAD

C-Sample

Antenna measurement reports

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Rev.	Change / Note	Date	Name	File		Printed. 07.11.23	

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1 General

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1.1 Change History

No.	Date	Version	Change Description	Changed pages	Autor
1	2023-11-07	2.0	Update the measurement report of MTK version Conmod Internal Ant		Neil

1.2 Further applicable documents

Ref.	State	Version	Document Description	Author
1				
2				

2 Measurement overview

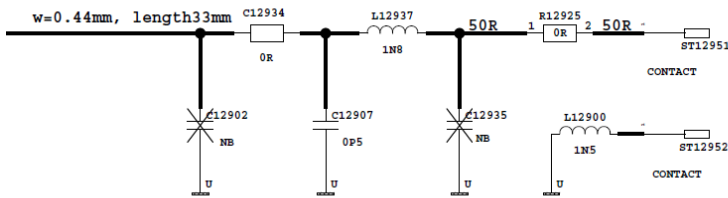
2.1 4-cell TCU overview



2.2 Chamber measurement setup



3 Antenna matching

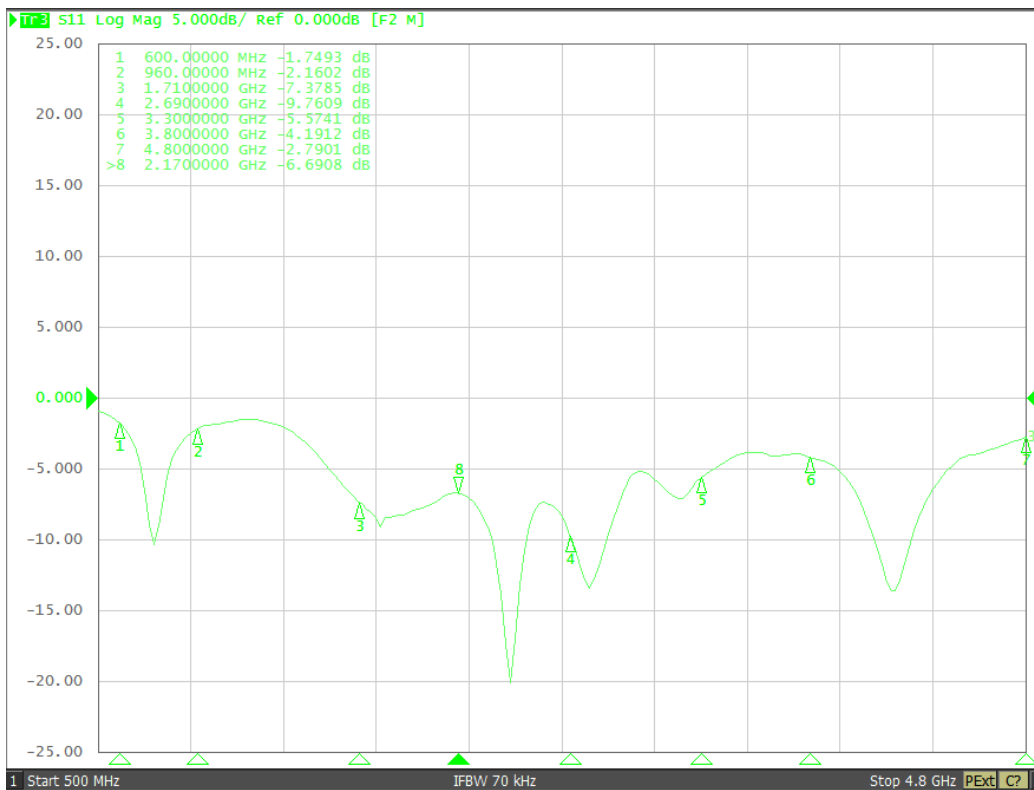


Internal antenna

4 Return loss & VSWR measurement

4.1 4- Cell BUB internal measurement

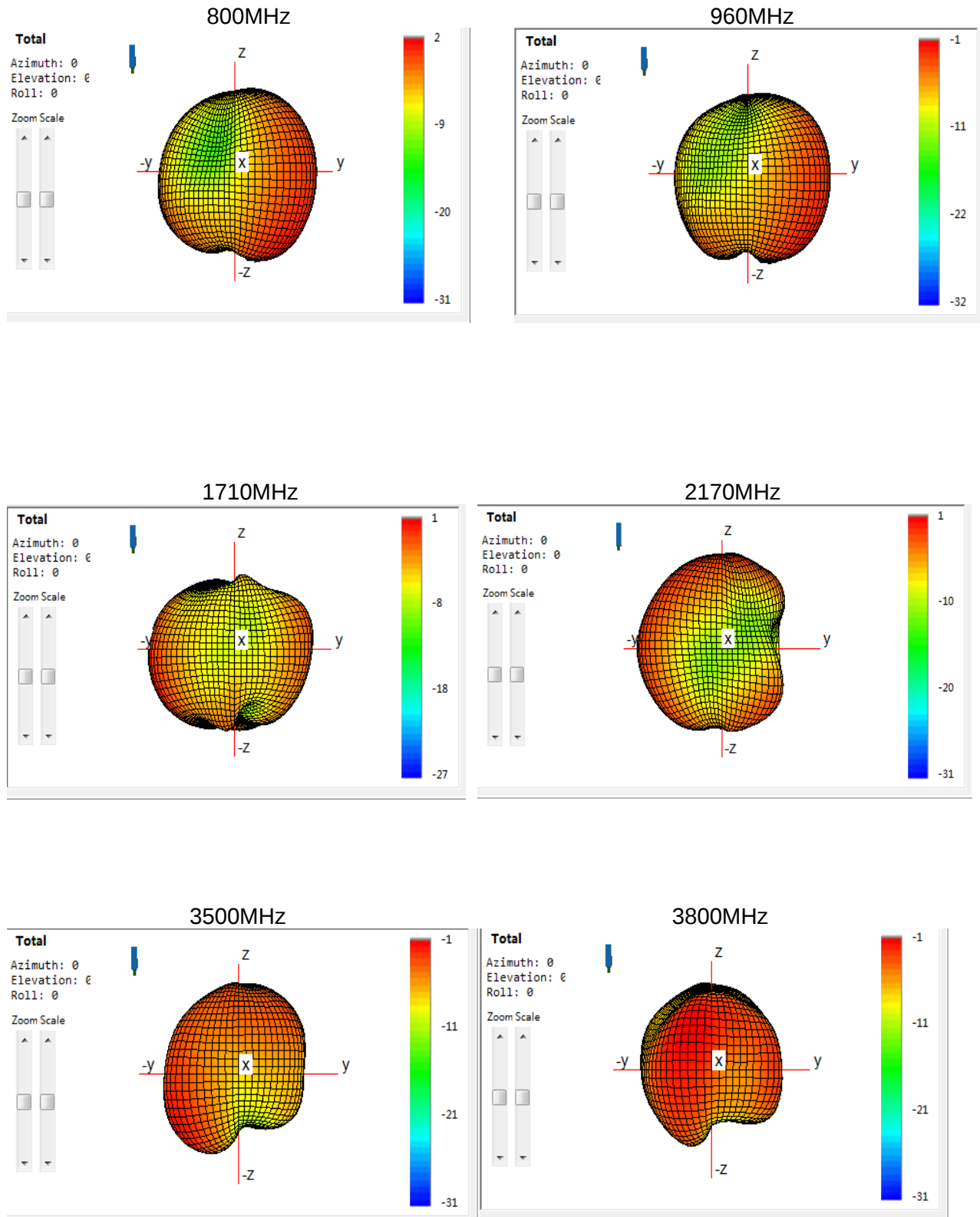
4.1.1 Return loss



5 4-cell BUB internal Antenna Efficiency

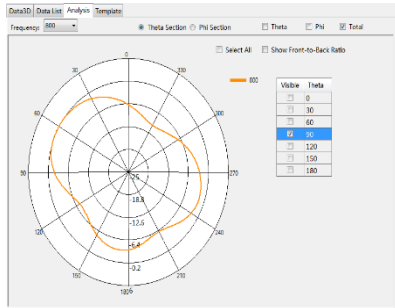
Frequency	Eff.dB	Eff.%	Peak Gain dBi	Frequency	Eff.dB	Eff.%	Peak Gain dBi	Frequency	Eff.dB	Eff.%	Peak Gain dBi
600	-11.84	7%	-8.27	1710	-3.29	47%	0.7	3000	-5.79	26%	-1.42
610	-11.05	8%	-7.42	1730	-3.3	47%	0.97	3050	-5.10	31%	-0.57
620	-10.54	9%	-6.96	1750	-3.2	48%	1.12	3100	-4.87	33%	0.69
630	-10.03	10%	-6.28	1770	-3.22	48%	0.95	3150	-4.36	37%	1.21
640	-9.33	12%	-5.48	1790	-3.29	47%	0.68	3200	-4.13	39%	1.05
650	-8.68	14%	-4.51	1810	-3.37	46%	0.3	3250	-4.33	37%	0.75
660	-7.95	16%	-3.6	1830	-3.28	47%	0.35	3300	-4.83	33%	0.32
670	-7.25	19%	-2.73	1850	-3.14	49%	0.24	3350	-4.95	32%	-0.11
680	-6.57	22%	-2.01	1870	-3.16	48%	-0.05	3400	-5.57	28%	-1.07
690	-5.91	26%	-1.28	1890	-3.11	49%	0.08	3450	-5.53	28%	-1.35
700	-5.13	31%	-0.55	1910	-2.86	52%	0.39	3500	-6.05	25%	-1.87
710	-4.22	38%	0.3	1930	-2.96	51%	0.29	3550	-6.19	24%	-2.22
720	-3.71	43%	0.66	1950	-2.92	51%	0.28	3600	-6.48	23%	-3.08
730	-3.25	47%	1.11	1970	-2.86	52%	0.35	3650	-6.58	22%	-2.97
740	-3.04	50%	1.25	1990	-2.81	52%	0.41	3700	-6.26	24%	-2.3
750	-2.86	52%	1.49	2010	-2.79	53%	0.48	3750	-6.43	23%	-2.28
760	-2.83	52%	1.6	2030	-2.82	52%	0.42	3800	-6.08	25%	-1.73
770	-2.79	53%	1.59	2050	-3.04	50%	0.1	3850	-5.87	26%	-1.33
780	-2.88	52%	1.62	2070	-3.16	48%	0.25	3900	-5.46	28%	-0.72
790	-3.04	50%	1.38	2090	-3.24	47%	0.32	3950	-5.21	30%	-0.21
800	-3.24	47%	1.33	2110	-3.25	47%	0.4	4000	-4.61	35%	0
810	-3.39	46%	1.05	2130	-3.34	46%	0.56	4050	-4.09	39%	0.34
820	-3.7	43%	0.92	2150	-3.52	44%	0.56	4100	-3.84	41%	0.16
830	-3.94	40%	0.67	2170	-3.59	44%	0.5	4150	-3.57	44%	0.25
840	-4.21	38%	0.31	2310	-3.47	45%	0.94	4200	-3.67	43%	0.38
850	-4.45	36%	0.37	2330	-3.11	49%	1.38	4250	-3.87	41%	0.43
860	-4.83	33%	-0.24	2350	-3.04	50%	1.53	4300	-4.29	37%	0.28
870	-5.12	31%	-0.22	2370	-3	50%	1.37	4350	-4.75	33%	-0.32
880	-5.58	28%	-1.01	2390	-2.93	51%	1.27	4400	-5.25	30%	-1.07
890	-5.84	26%	-1.18	2410	-2.88	51%	1.37	4450	-5.53	28%	-1.65
900	-6.28	24%	-1.98	2430	-2.9	51%	1.85	4500	-6.19	24%	-1.96
910	-6.42	23%	-1.97	2450	-3.2	48%	1.99	4550	-6.82	21%	-2.5
920	-6.79	21%	-2.66	2470	-3.54	44%	2	4600	-6.88	20%	-3.71
930	-7.02	20%	-2.67	2490	-3.77	42%	1.89	4650	-7.04	20%	-4.77
940	-7.39	18%	-3.18	2510	-3.87	41%	1.82	4700	-7.76	17%	-5.27
950	-7.66	17%	-3.03	2530	-4.05	39%	1.69	4750	-8.73	13%	-5.99
960	-8.02	16%	-3.52	2550	-4.21	38%	1.45	4800	-9.27	12%	-6.18
				2570	-4.27	37%	1.11				
				2590	-4.29	37%	1.15				
				2610	-4.18	38%	1.43				
				2630	-4.02	40%	1.69				
				2650	-3.91	41%	1.82				
				2670	-3.86	41%	1.94				

6 Antenna Radiation Pattern-3D

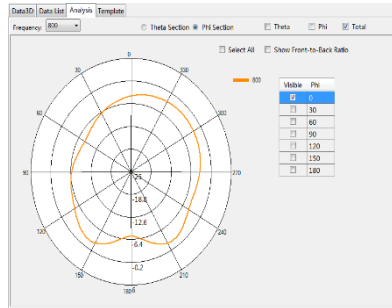


7 Antenna Radiation Pattern-2D

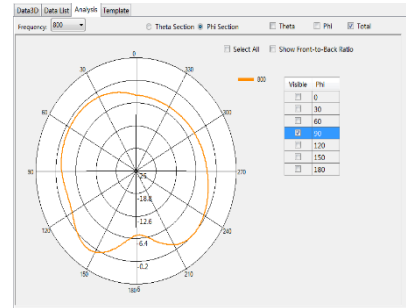
800MHz Theta=90°



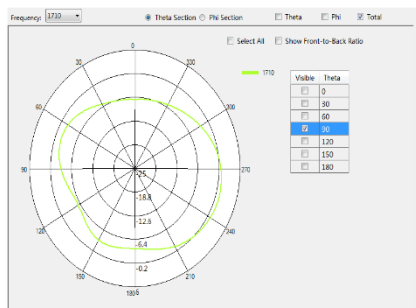
Phi=0°



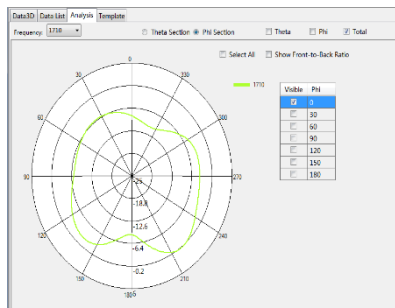
Phi=90°



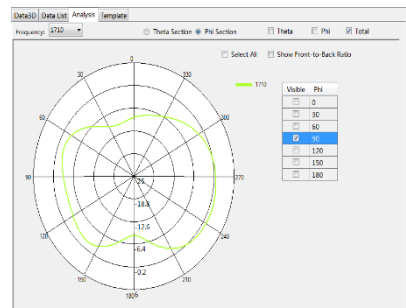
1710MHz Theta=90°



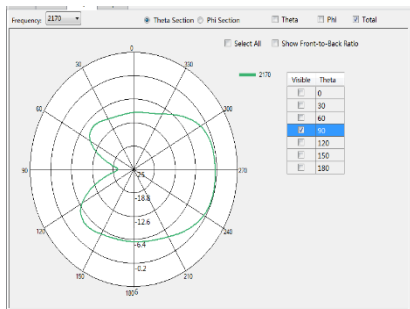
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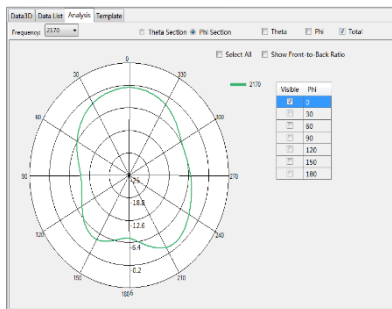
Phi=90°



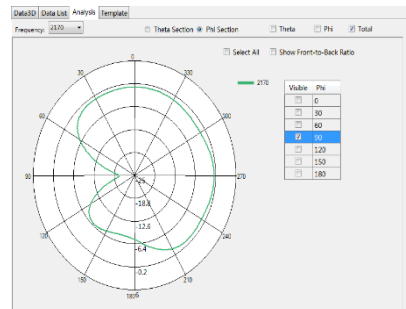
2170MHz Theta=90°



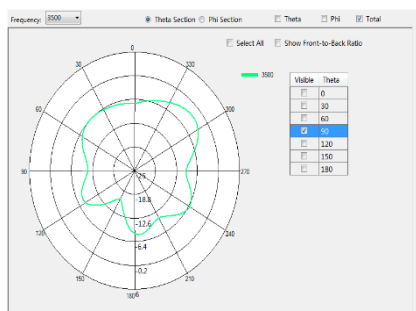
Phi=0°



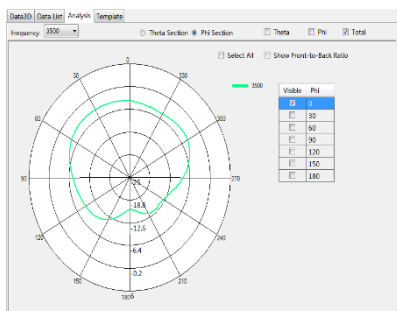
Phi=90°



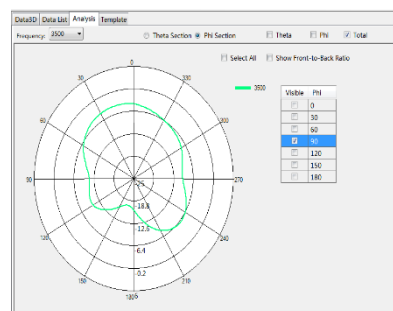
3500MHz Theta=90°



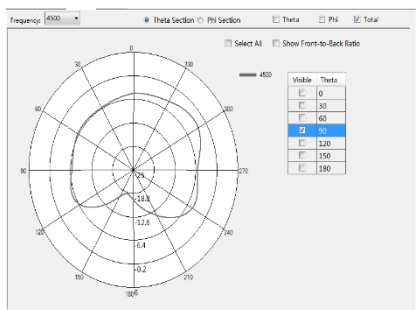
Phi=0°



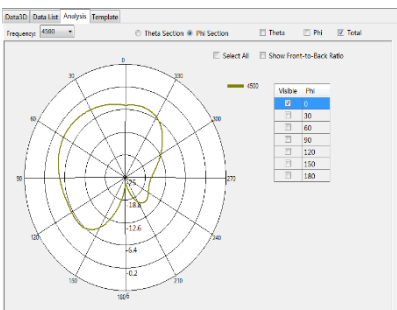
Phi=90°



4500MHz Theta=90°



Phi=0°



Phi=90°

