

PX501E_MIMO1_認證報告

Model Name : ALL6Y-100004(MIMO1)

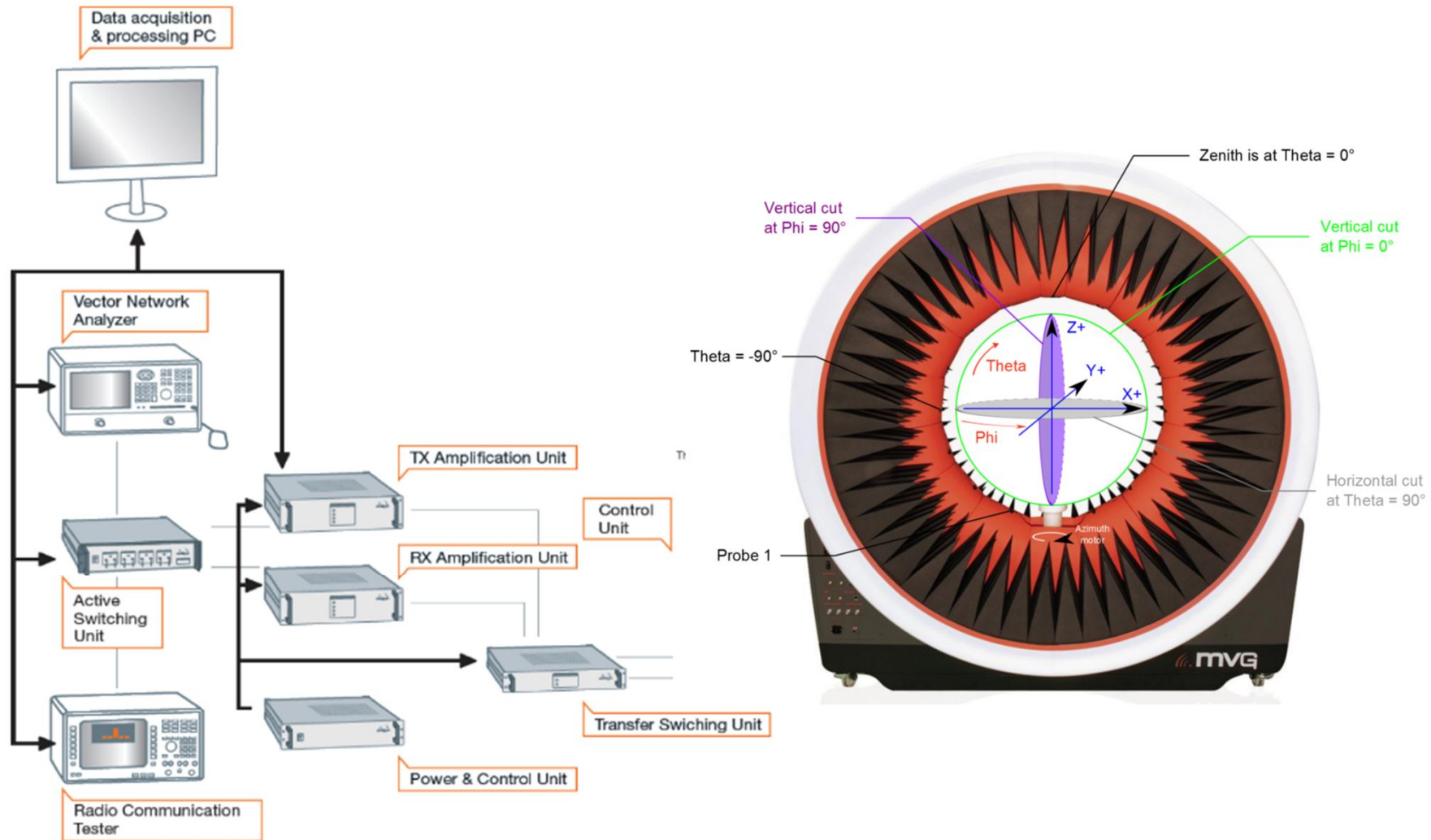
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Aantenna Test System



Specification

- . Product Number : ALL6Y-100004(MIMO1)
- . Version :

Electrical Characteristics

- . Frequency (MHz) : 1410-2690MHz , 3300-5000MHz , 5150-5925MHz.
- . Return Loss : < -5.11 dB
- . Efficiency : 19.0 ~ 56.2 %
- . Peak Gain : > -2.72 dBi
- . Impedance : 50 Ω
- . Polarization : Linear
- . Antenna Type : PIFA

Mechanical Characteristics

- . Cable / Connector : 1.13mm / IPEX
- . Material : DX11355

Environmental Condition

- . Operation Temperature : -30~+65 $^{\circ}\text{C}$
- . Storage Temperature : -30~+85 $^{\circ}\text{C}$

Return Test Data

i ALL6Y-100004(MIMO1)



Gain / Efficiency Test Data

i ALL6Y-100004(MIMO1)

Frequency (MHz)	1410	1440	1470	1500	1575	1592	1602	1612								
Peak Gain (dBi)	-1.34	-1.44	-0.99	-1.69	-0.17	-2.18	-1.62	-2.05								
Efficiency (dBi)	-5.78	-5.97	-6.15	-5.97	-5.50	-6.76	-6.15	-5.64								
Efficiency (%)	26.4	25.3	24.3	25.3	28.2	21.1	24.3	27.3								
Frequency (MHz)	1710	1730	1732	1745	1750	1755	1770	1780	1785	1790	1805	1810	1830	1840	1850	1870
Peak Gain (dBi)	0.84	0.86	0.84	0.88	0.82	0.78	0.81	0.84	0.85	0.84	0.94	0.78	0.85	0.89	0.9	0.76
Efficiency (dBi)	-3.04	-3.06	-3.03	-3.06	-3.04	-3.01	-3.08	-3.04	-3.02	-3.02	-2.88	-2.97	-2.93	-2.93	-2.96	-3.02
Efficiency (%)	49.7	49.4	49.8	49.4	49.7	50.0	49.2	49.7	49.9	49.9	51.5	50.5	50.9	50.9	50.6	49.9
Frequency (MHz)	1880	1890	1910	1920	1930	1950	1960	1970	1980	1990	1995	2010	2017	2018	2025	2030
Peak Gain (dBi)	0.76	0.76	0.69	0.81	0.82	0.72	0.75	0.83	0.84	0.87	0.85	0.82	0.86	0.89	0.91	0.92
Efficiency (dBi)	-3.06	-3.11	-3.19	-3.18	-3.15	-3.12	-2.97	-2.98	-2.94	-2.82	-2.78	-2.74	-2.76	-2.74	-2.69	-2.68
Efficiency (%)	49.4	48.9	48.0	48.1	48.4	48.8	50.5	50.4	50.8	52.2	52.7	53.2	53.0	53.2	53.8	54.0

Gain / Efficiency Test Data

i ALL6Y-100004(MIMO1)

Frequency (MHz)	2050	2070	2090	2110	2130	2132	2140	2150	2155	2170	2190	2200	2230	2250	2270	2290
Peak Gain (dBi)	0.93	0.89	0.84	0.75	0.86	0.83	0.84	0.78	0.82	0.76	0.76	0.82	0.76	0.82	0.91	0.89
Efficiency (dBi)	-2.59	-2.60	-2.68	-2.75	-3.04	-3.02	-3.10	-3.26	-3.21	-3.18	-3.15	-3.12	-2.74	-2.60	-2.59	-2.54
Efficiency (%)	55.1	55.0	54.0	53.1	49.7	49.9	49.0	47.2	47.8	48.1	48.4	48.8	53.2	55.0	55.1	55.7
Frequency (MHz)	2300	2305	2310	2315	2325	2330	2345	2350	2355	2360	2370	2375	2390	2400	2410	2412
Peak Gain (dBi)	0.83	0.85	0.88	0.84	0.82	0.77	0.86	0.82	0.76	0.83	0.87	0.85	0.91	0.82	0.76	0.75
Efficiency (dBi)	-2.50	-2.54	-2.52	-2.60	-2.53	-2.51	-2.52	-2.52	-2.53	-2.61	-2.58	-2.64	-2.74	-2.81	-3.29	-3.45
Efficiency (%)	56.2	55.7	56.0	55.0	55.8	56.1	56.0	56.0	55.8	54.8	55.2	54.5	53.2	52.4	46.9	45.2
Frequency (MHz)	2430	2437	2442	2450	2462	2470	2484	2490	2496	2500	2510	2515	2530	2535	2550	2555
Peak Gain (dBi)	0.87	0.83	0.85	0.89	0.88	0.82	0.85	0.89	0.92	0.84	0.79	0.86	0.88	0.83	0.89	0.85
Efficiency (dBi)	-2.74	-2.81	-2.65	-2.73	-2.84	-2.91	-2.84	-3.01	-2.98	-2.87	-3.01	-3.07	-3.11	-3.05	-3.24	-3.09
Efficiency (%)	53.2	52.4	54.3	53.3	52.0	51.2	52.0	50.0	50.4	51.6	50.0	49.3	48.9	49.5	47.4	49.1

Gain / Efficiency Test Data

i ALL6Y-100004(MIMO1)

Frequency (MHz)	2570	2590	2593	2595	2600	2610	2620	2630	2650	2655	2670	2680	2690	3300	3400	3500
Peak Gain (dBi)	0.86	0.93	0.84	0.81	0.92	0.88	0.86	0.79	0.93	0.85	0.84	0.83	0.86	-0.15	0.46	0.03
Efficiency (dBi)	-3.21	-3.22	-3.30	-3.34	-3.24	-3.34	-3.31	-3.39	-3.39	-3.44	-3.45	-3.44	-3.44	-4.27	-4.32	-5.02
Efficiency (%)	47.8	47.6	46.8	46.3	47.4	46.3	46.7	45.8	45.8	45.3	45.2	45.3	45.3	37.4	37.0	31.5
Frequency (MHz)	3600	3700	3800	3900	4000	4100	4200	4400	4500	4600	4700	4800	4900	5000	5150	5250
Peak Gain (dBi)	0.14	0.92	0.78	0.92	0.88	0.86	0.59	-0.15	0.76	0.78	0.91	0.84	0.89	0.87	0.83	-1.13
Efficiency (dBi)	-5.12	-3.39	-3.42	-3.35	-3.60	-4.05	-4.50	-5.57	-4.18	-4.07	-4.03	-3.71	-4.24	-4.42	-4.79	-6.21
Efficiency (%)	30.8	45.8	45.5	46.2	43.7	39.4	35.5	27.7	38.2	39.2	39.5	42.6	37.7	36.1	33.2	23.9
Frequency (MHz)	5350	5470	5600	5725	5785	5850	5925									
Peak Gain (dBi)	-1.58	-2.72	-2.29	0.63	0.92	0.93	0.81									
Efficiency (dBi)	-6.89	-7.21	-6.76	-4.93	-4.56	-4.59	-3.95									
Efficiency (%)	20.5	19.0	21.1	32.1	35.0	34.8	40.3									

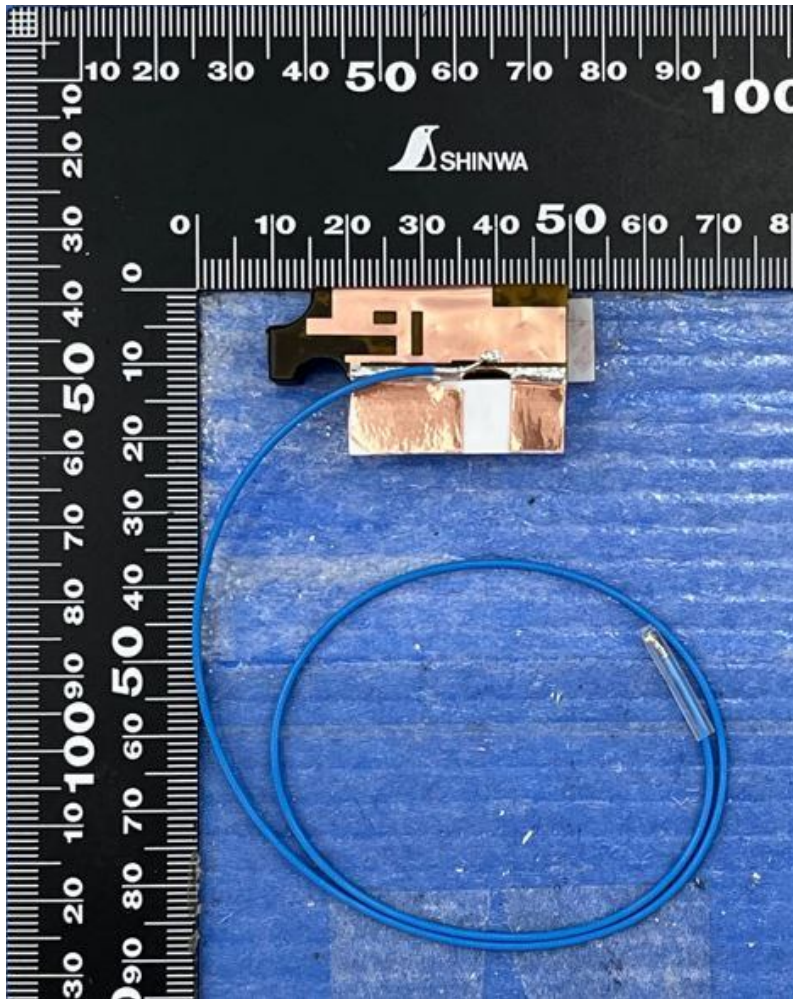
ALL6Y-100004(MIMO1)



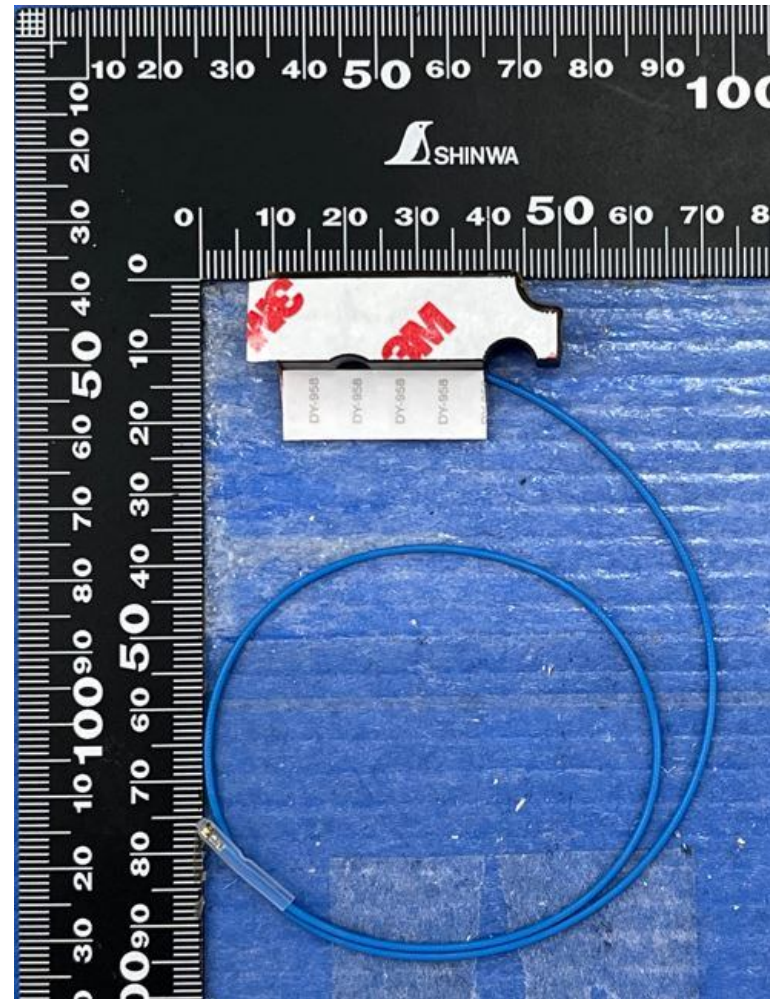
Antenna Photo (Front/Back):

i ALL6Y-100004(MIMO1)

i Front

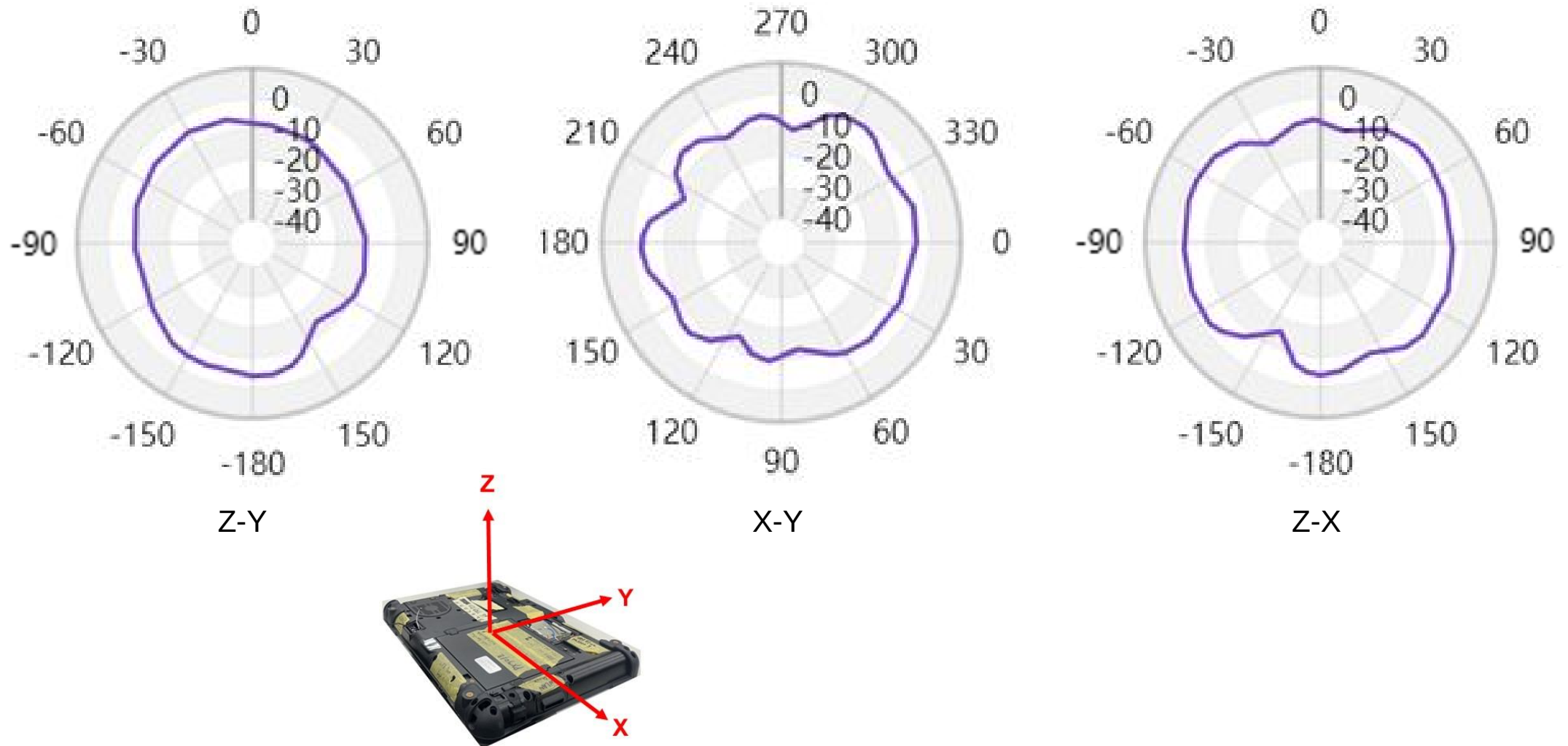


i Back



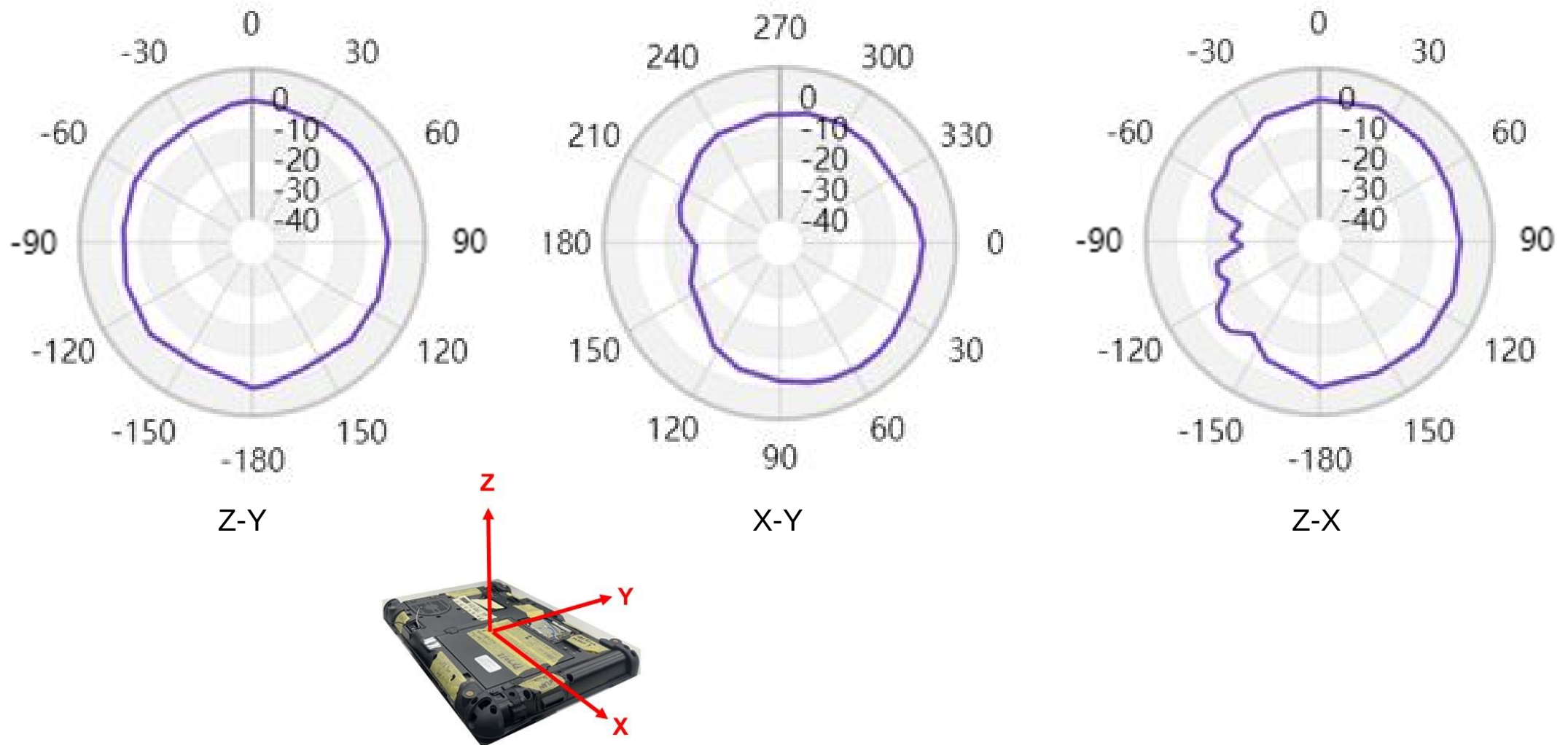
Radiation characteristics of antenna loaded in Host Platform @ 1410MHz:

i ALL6Y-100004(MIMO1)



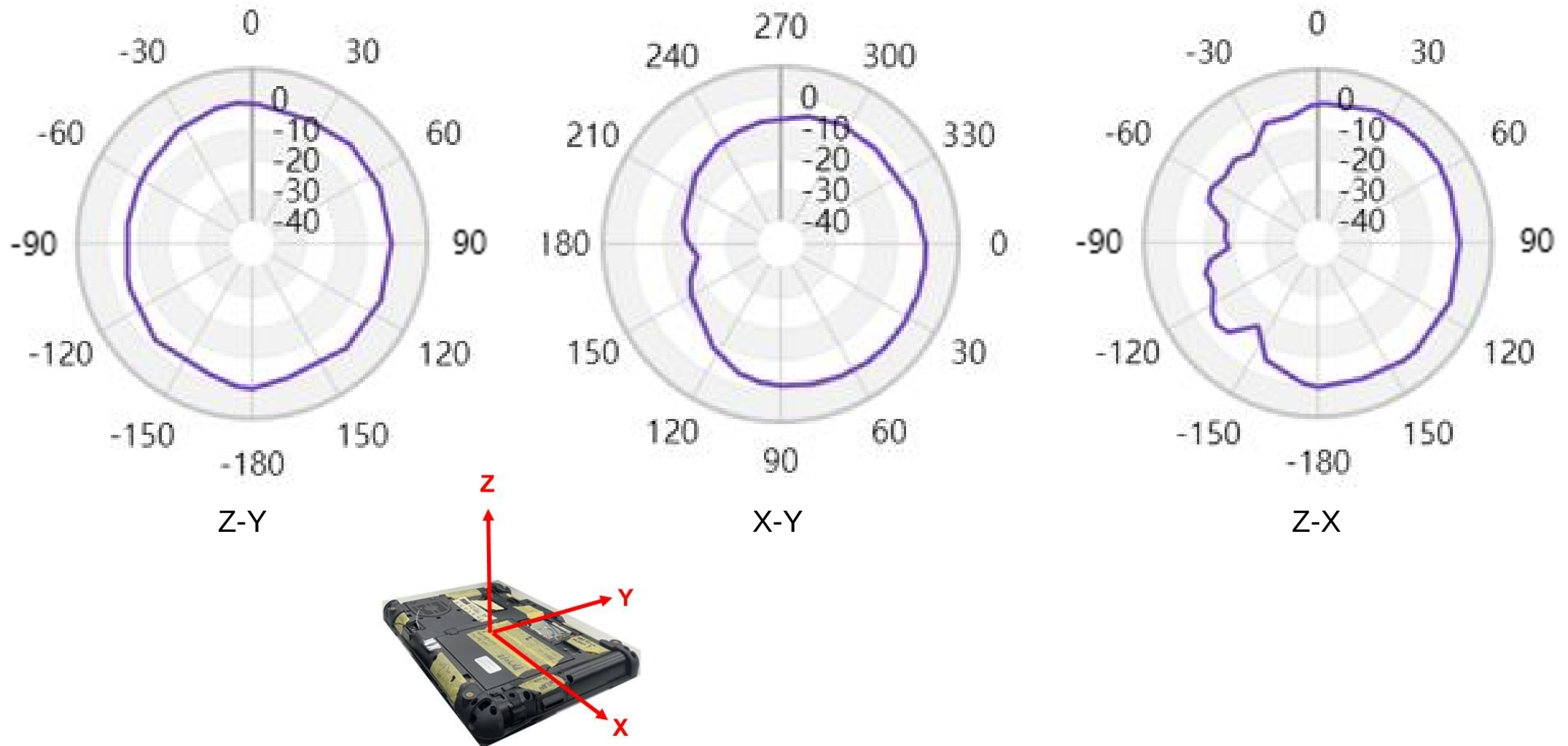
Radiation characteristics of antenna loaded in Host Platform @ 1710MHz:

i ALL6Y-100004(MIMO1)



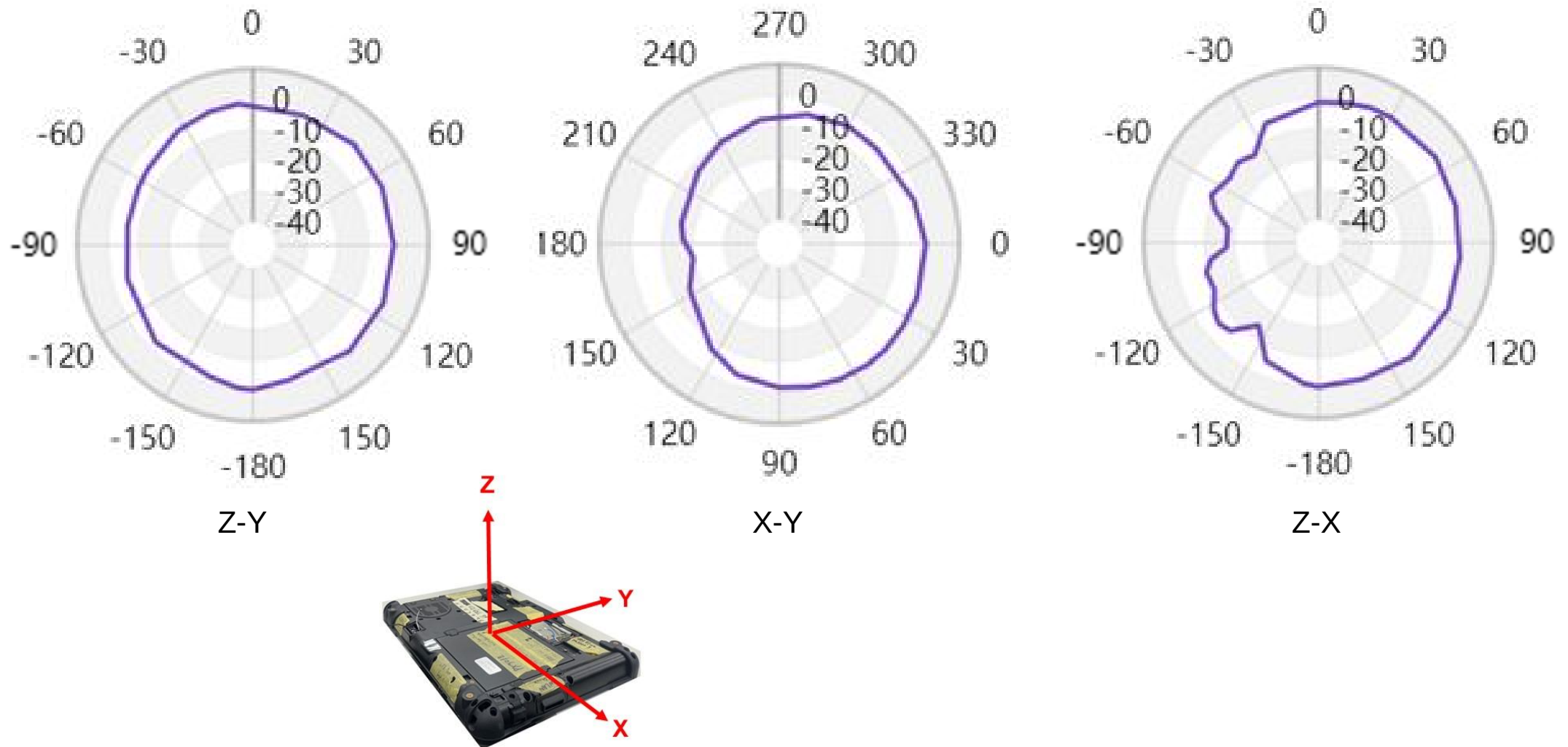
Radiation characteristics of antenna loaded in Host Platform @ 1785MHz:

i ALL6Y-100004(MIMO1)



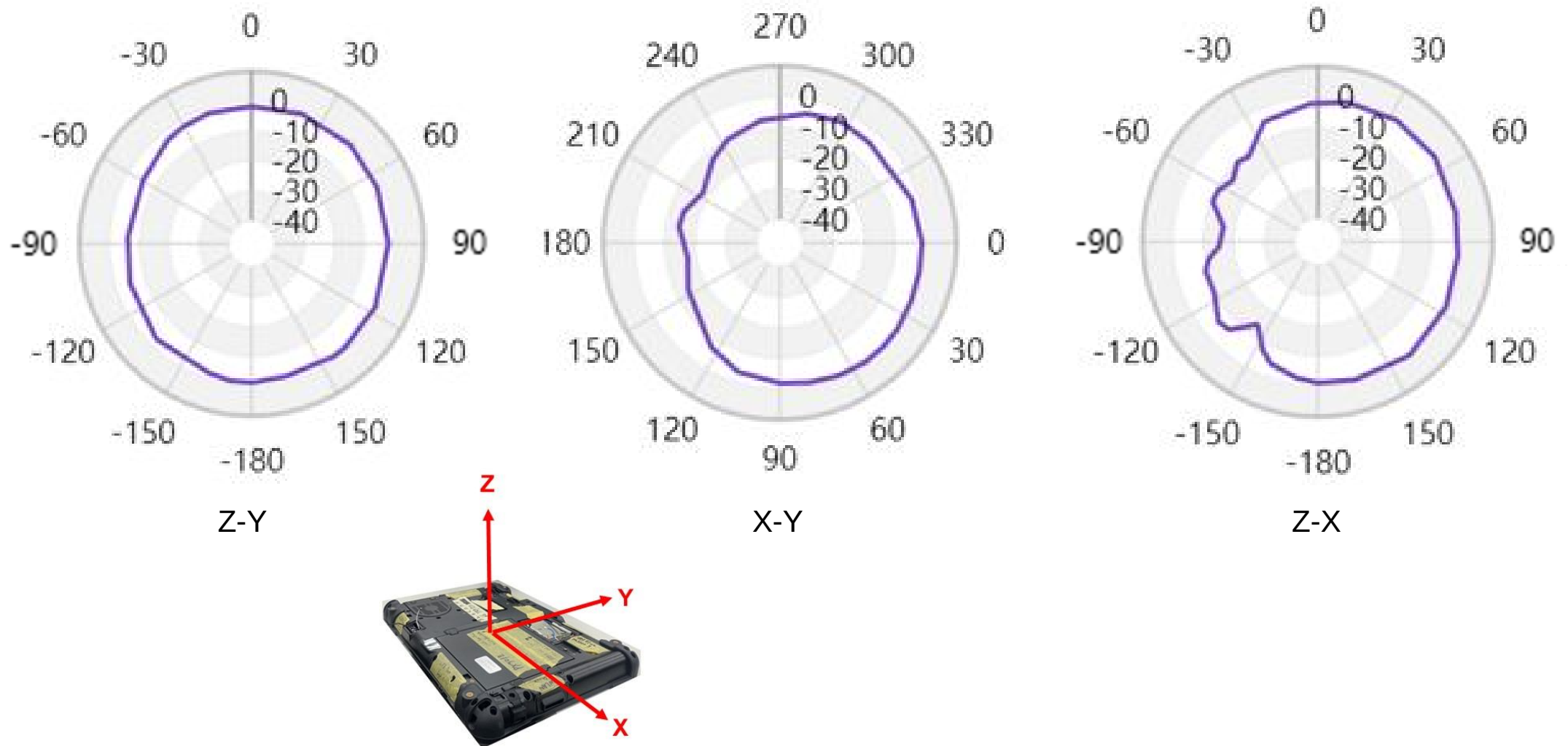
Radiation characteristics of antenna loaded in Host Platform @ 1805MHz:

i ALL6Y-100004(MIMO1)



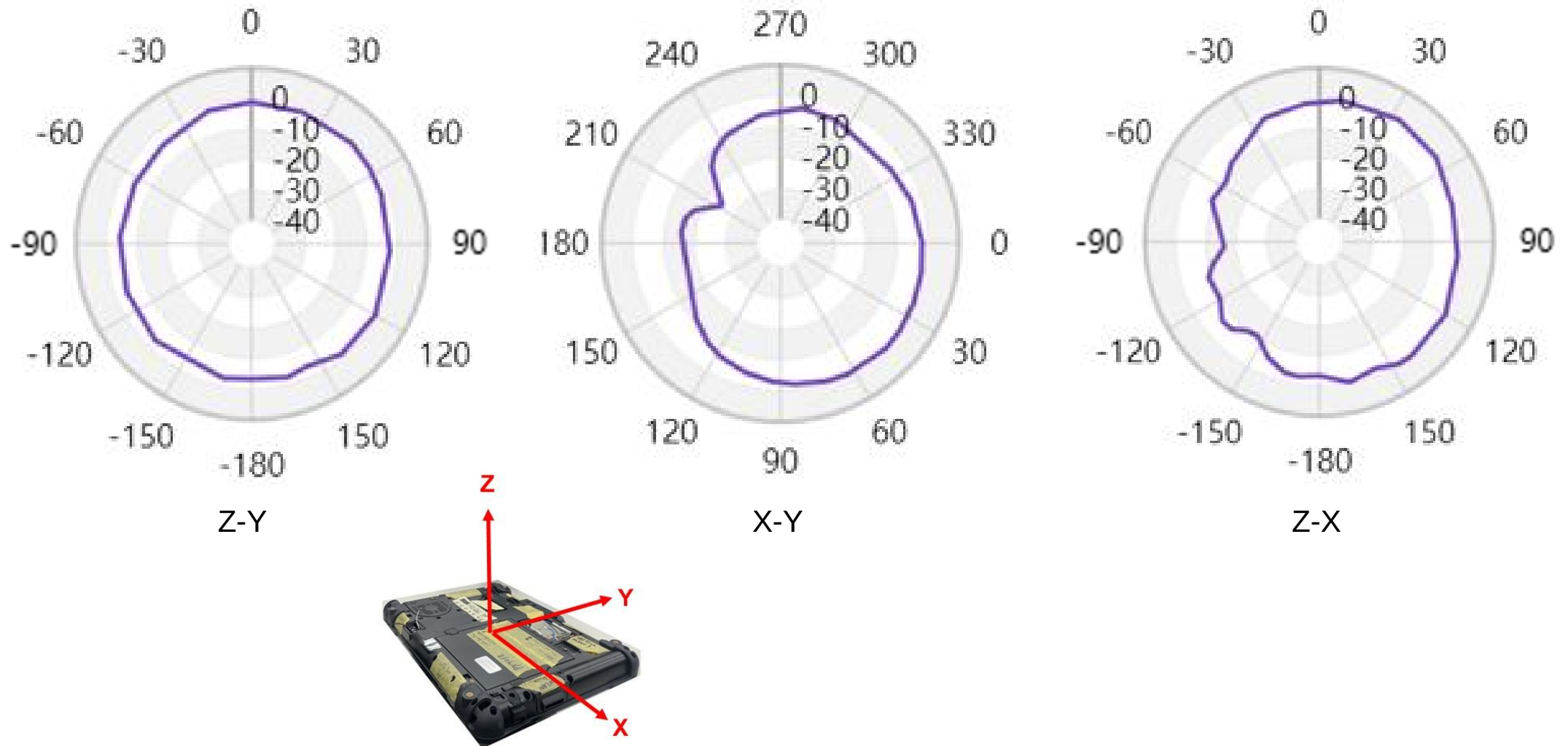
Radiation characteristics of antenna loaded in Host Platform @ 1850MHz:

i ALL6Y-100004(MIMO1)



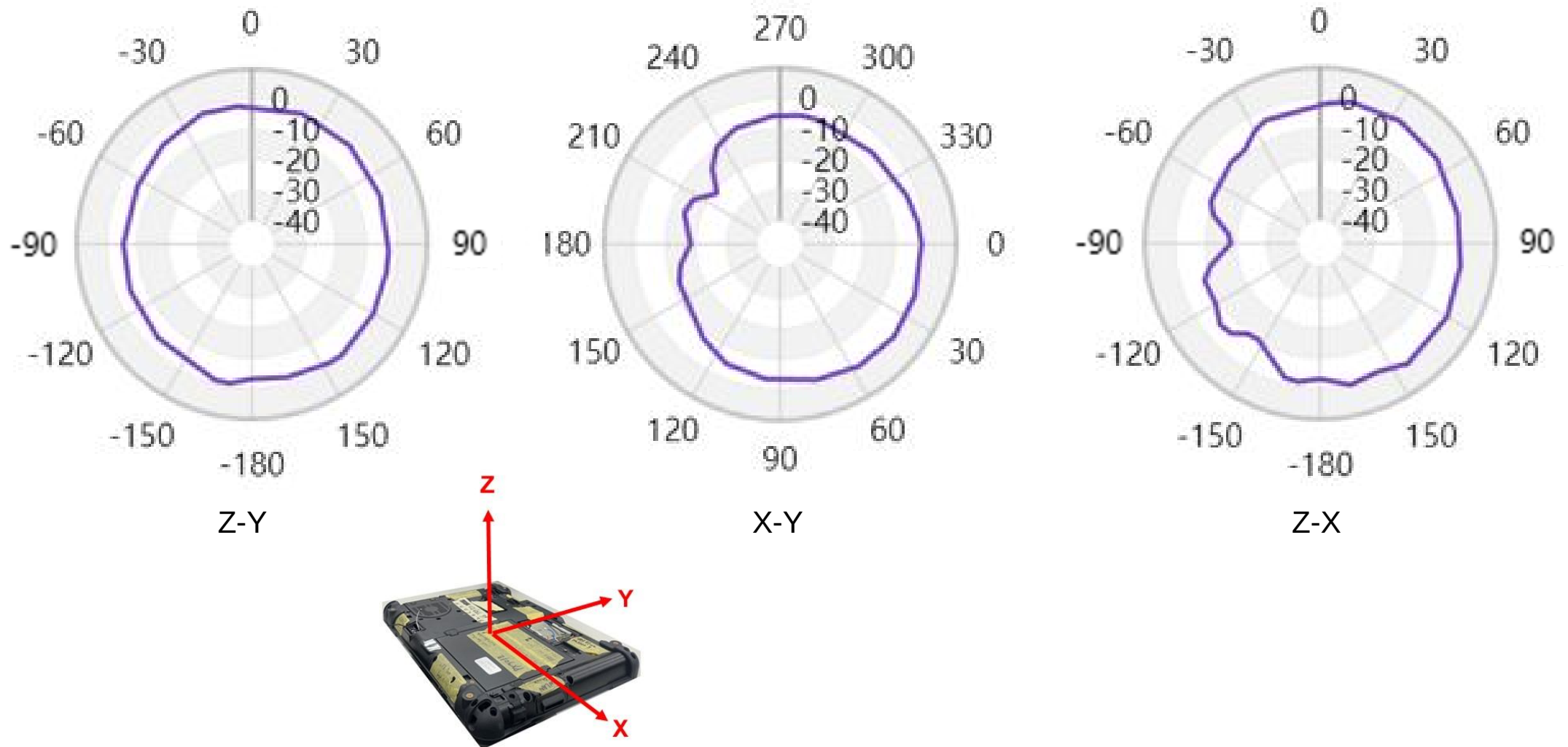
Radiation characteristics of antenna loaded in Host Platform @ 1930MHz:

i ALL6Y-100004(MIMO1)



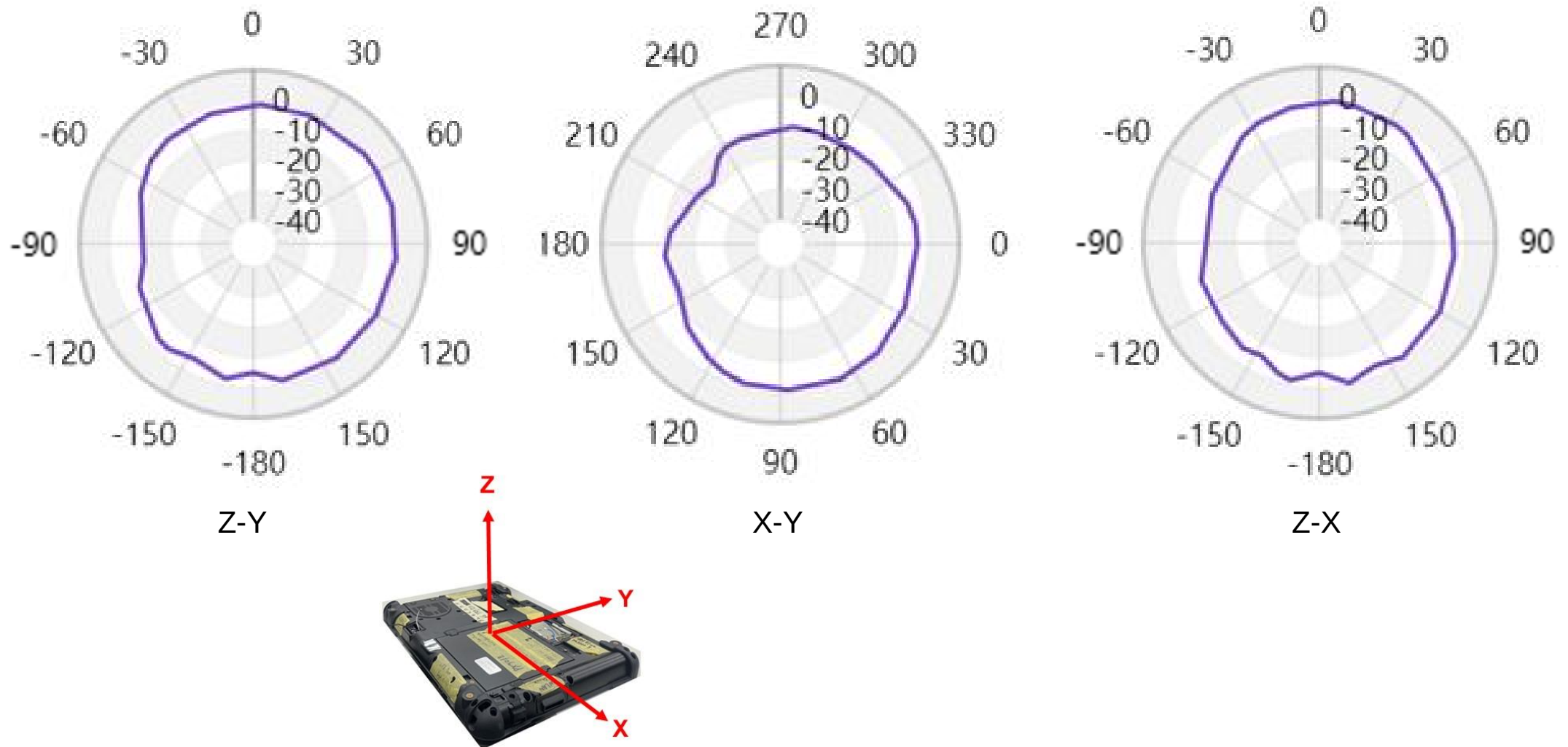
Radiation characteristics of antenna loaded in Host Platform @ 1980MHz:

i ALL6Y-100004(MIMO1)



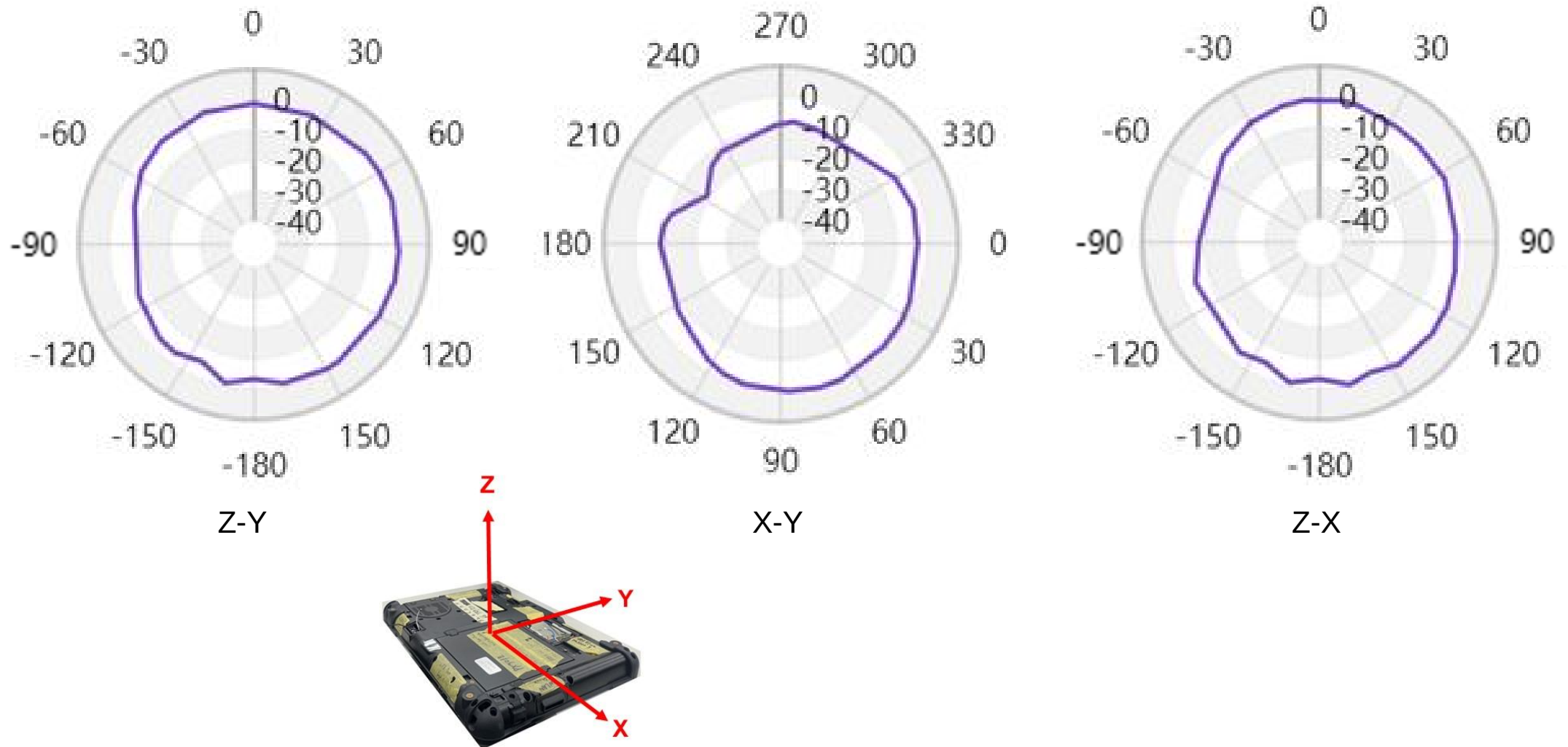
Radiation characteristics of antenna loaded in Host Platform @ 2170MHz:

i ALL6Y-100004(MIMO1)



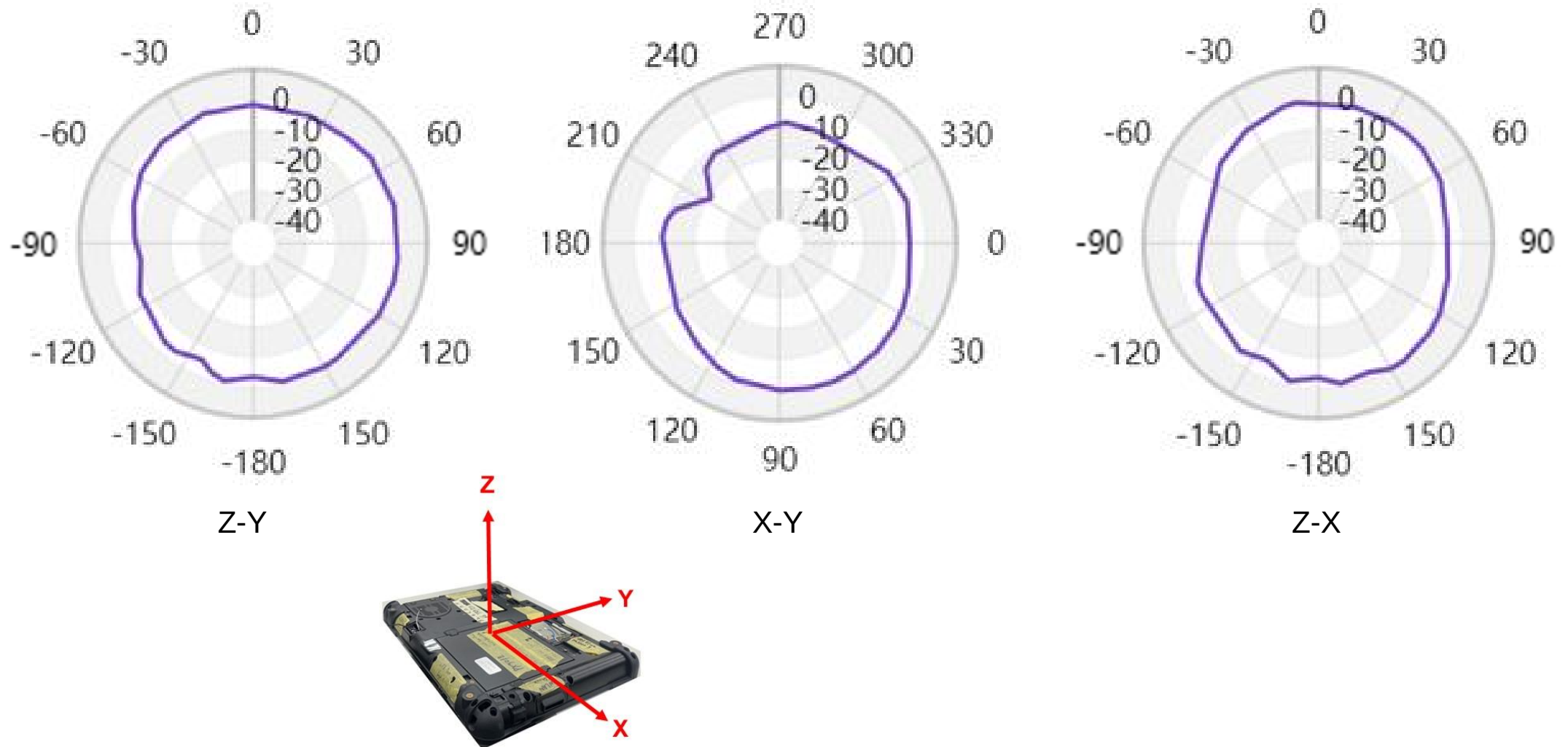
Radiation characteristics of antenna loaded in Host Platform @ 2300MHz:

i ALL6Y-100004(MIMO1)



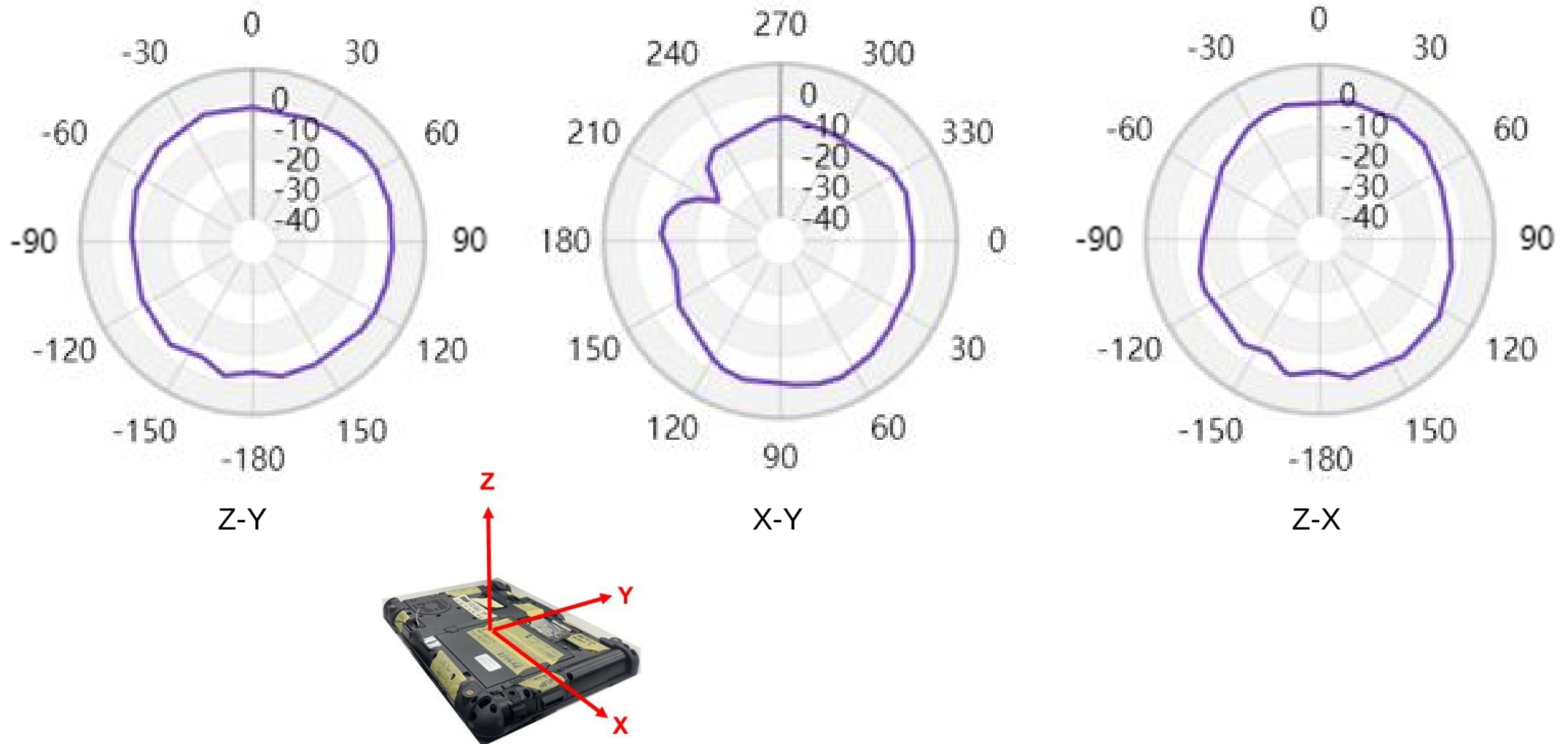
Radiation characteristics of antenna loaded in Host Platform @ 2345MHz:

i ALL6Y-100004(MIMO1)



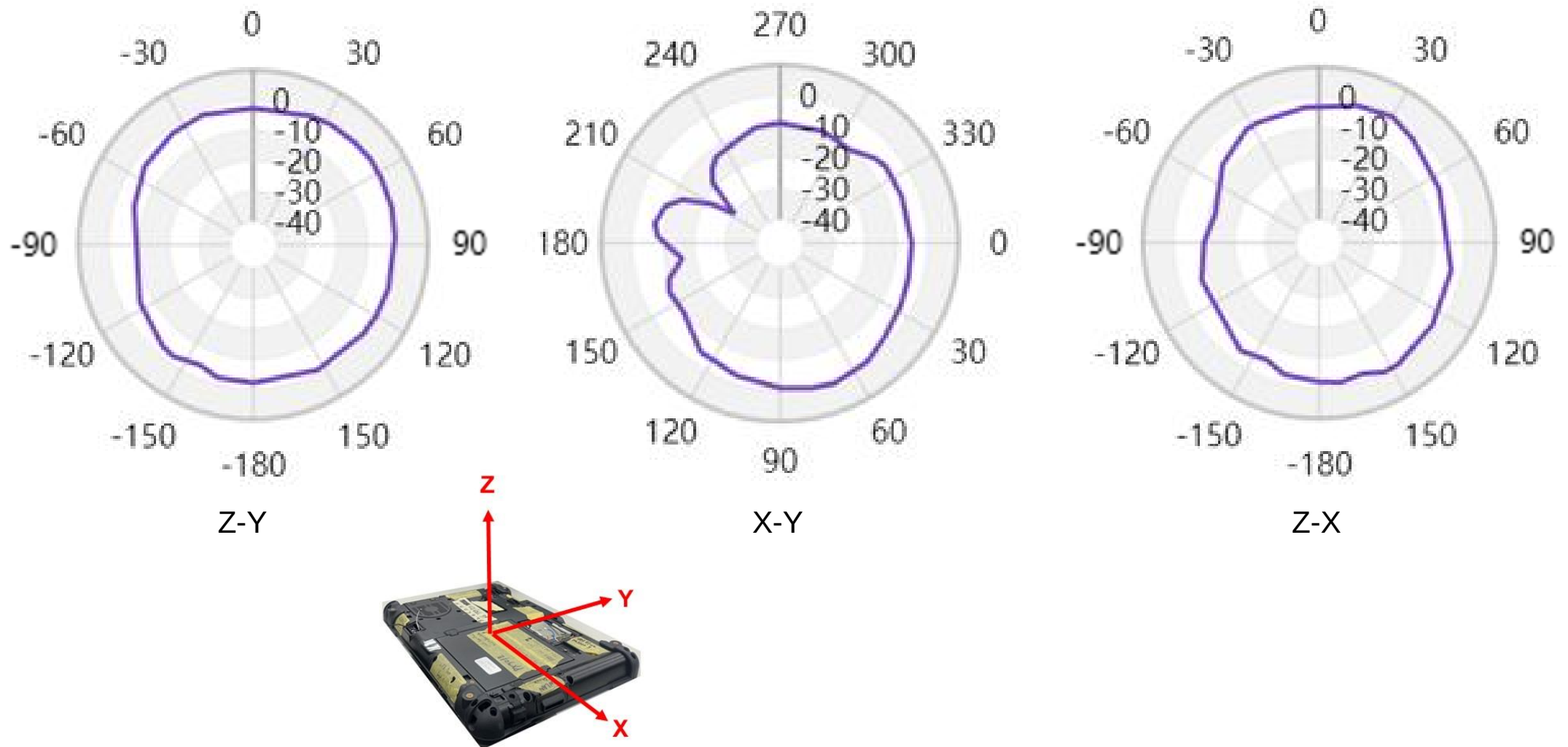
Radiation characteristics of antenna loaded in Host Platform @ 2400MHz:

i ALL6Y-100004(MIMO1)



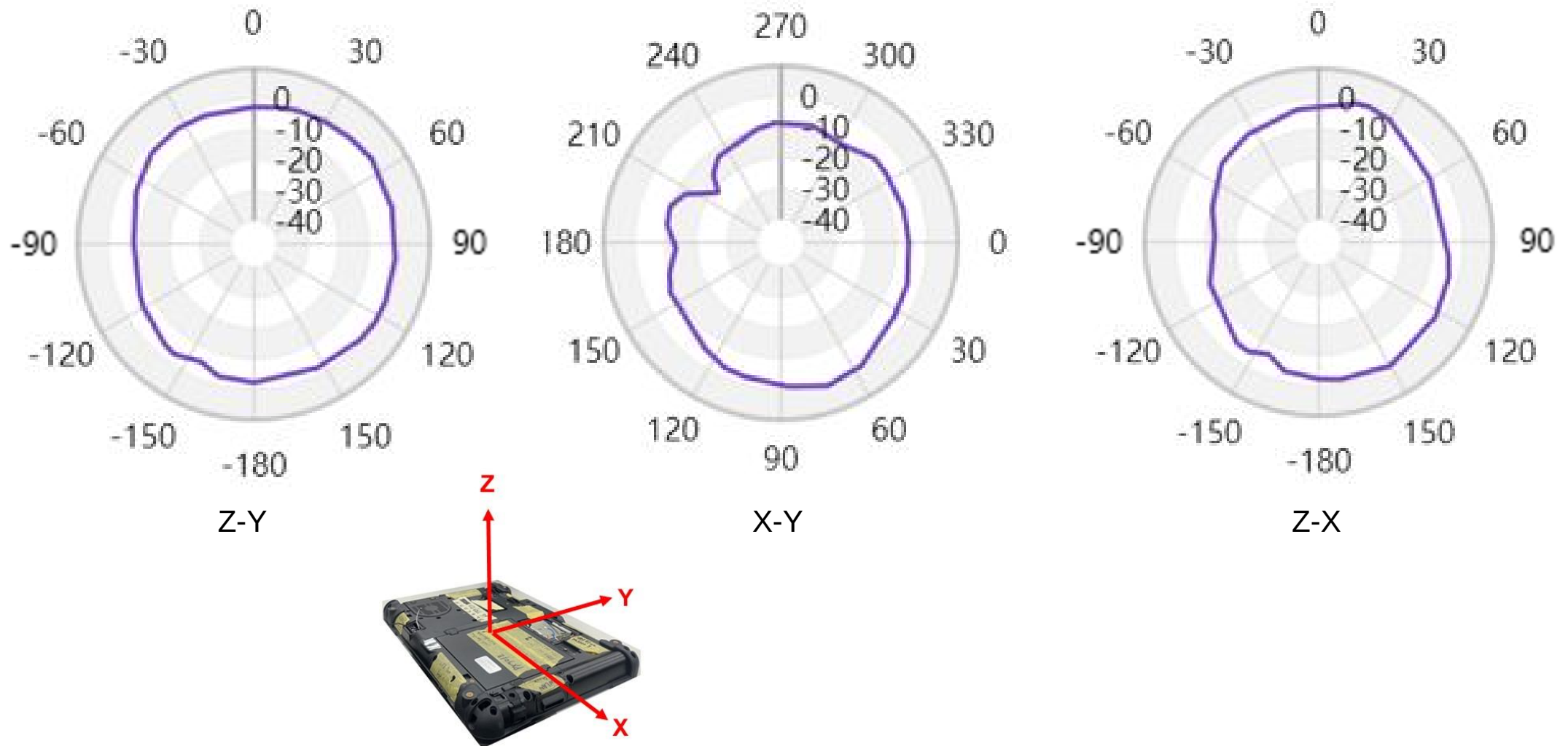
Radiation characteristics of antenna loaded in Host Platform @ 2500MHz:

i ALL6Y-100004(MIMO1)



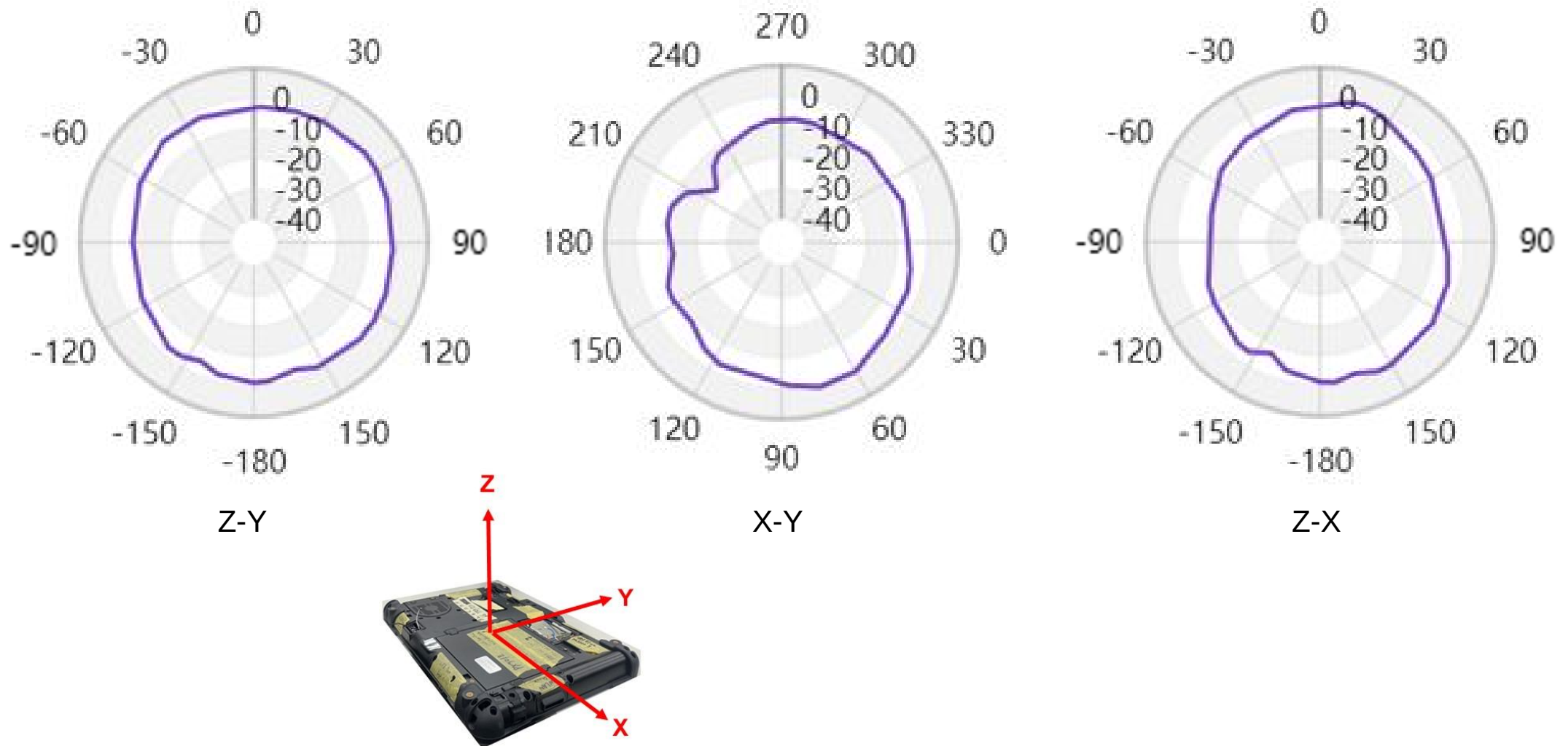
Radiation characteristics of antenna loaded in Host Platform @ 2570MHz:

i ALL6Y-100004(MIMO1)



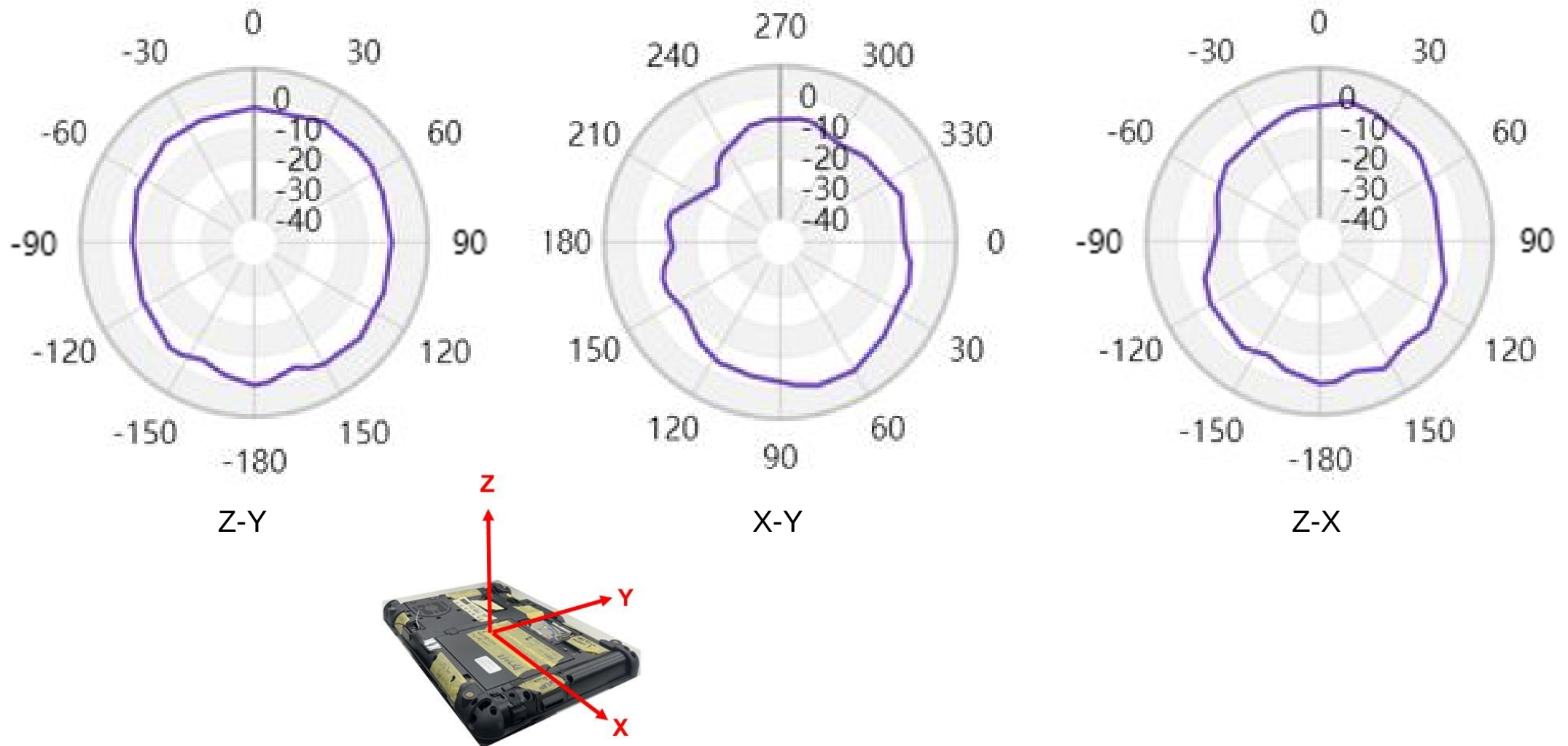
Radiation characteristics of antenna loaded in Host Platform @ 2620MHz:

i ALL6Y-100004(MIMO1)



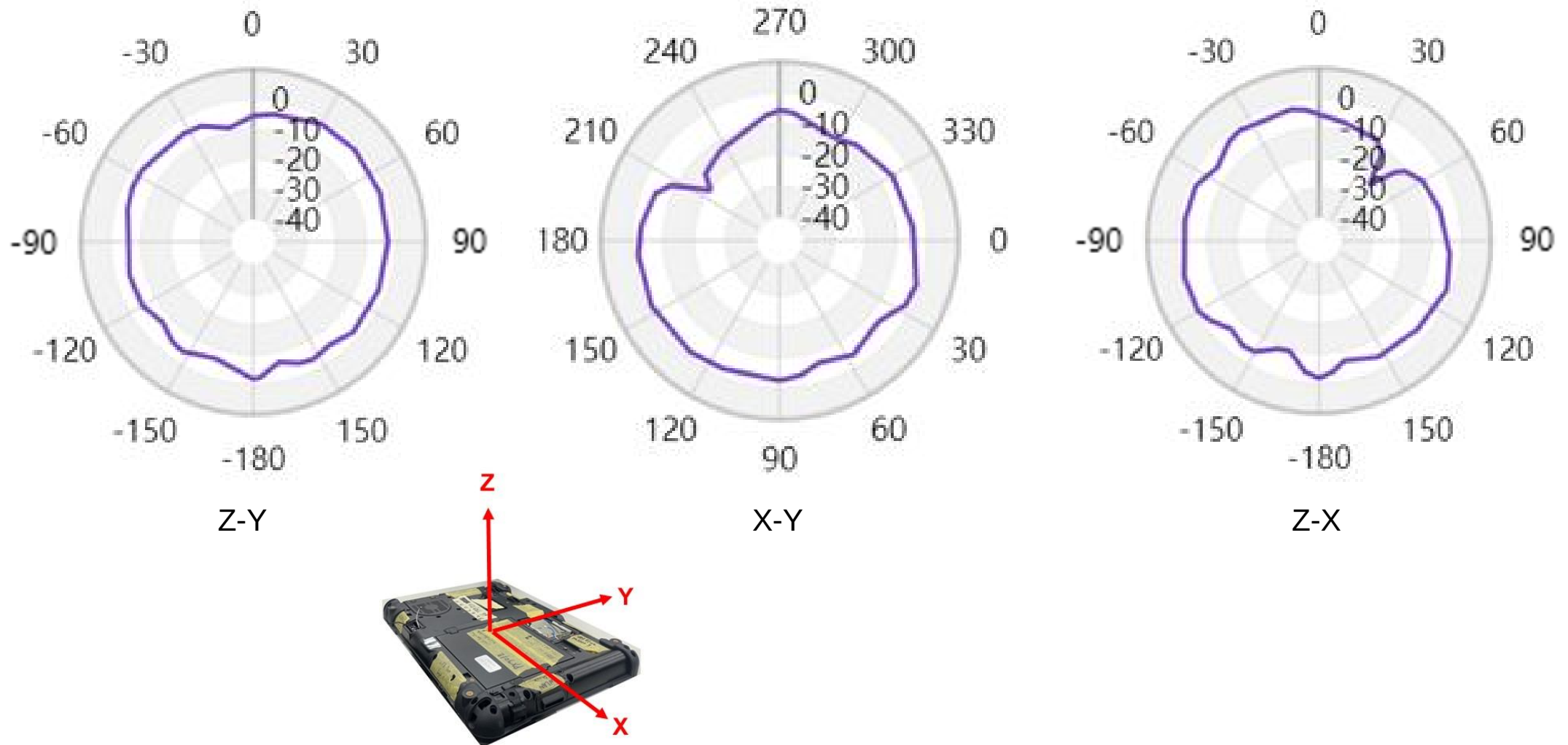
Radiation characteristics of antenna loaded in Host Platform @ 2690MHz:

i ALL6Y-100004(MIMO1)



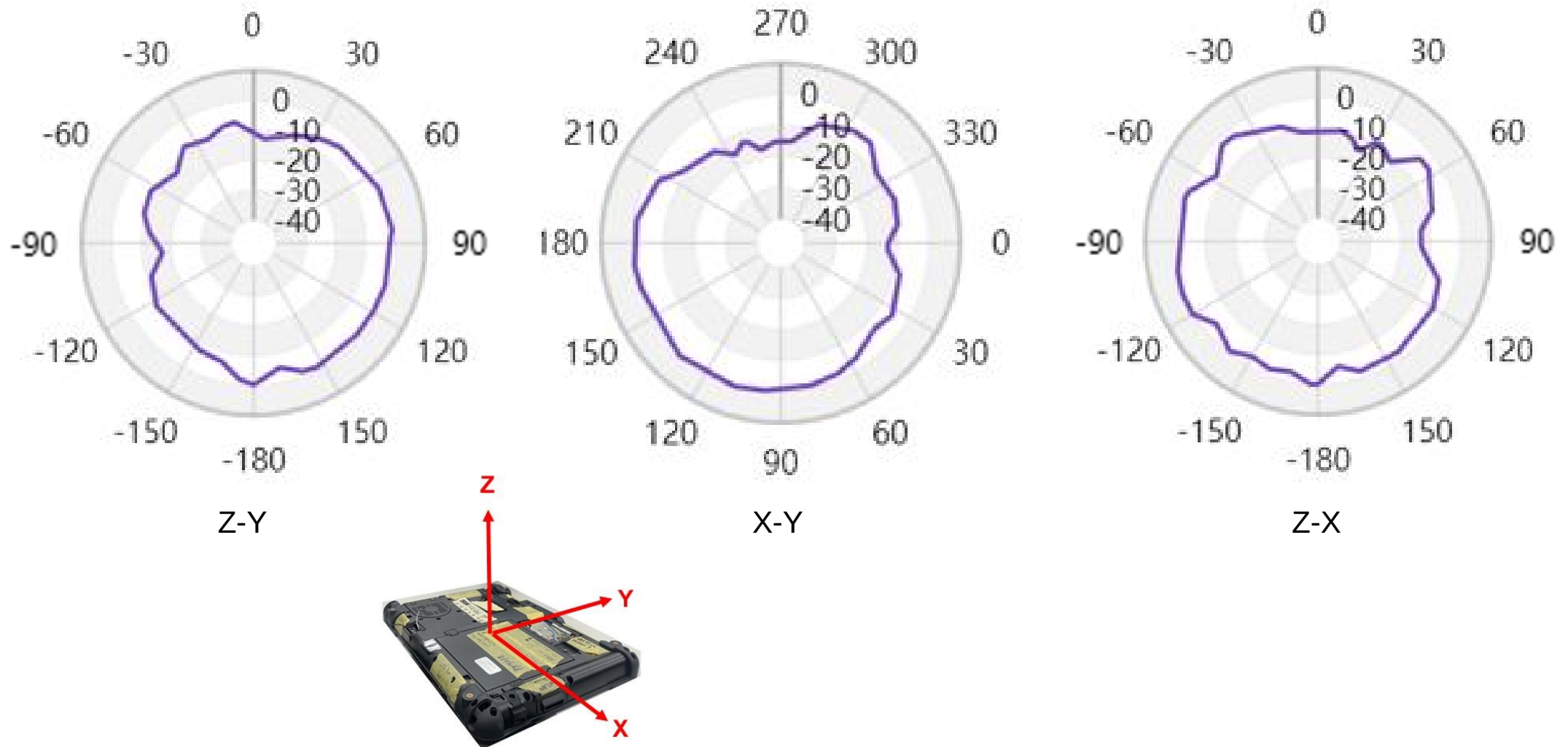
Radiation characteristics of antenna loaded in Host Platform @ 3300MHz:

i ALL6Y-100004(MIMO1)



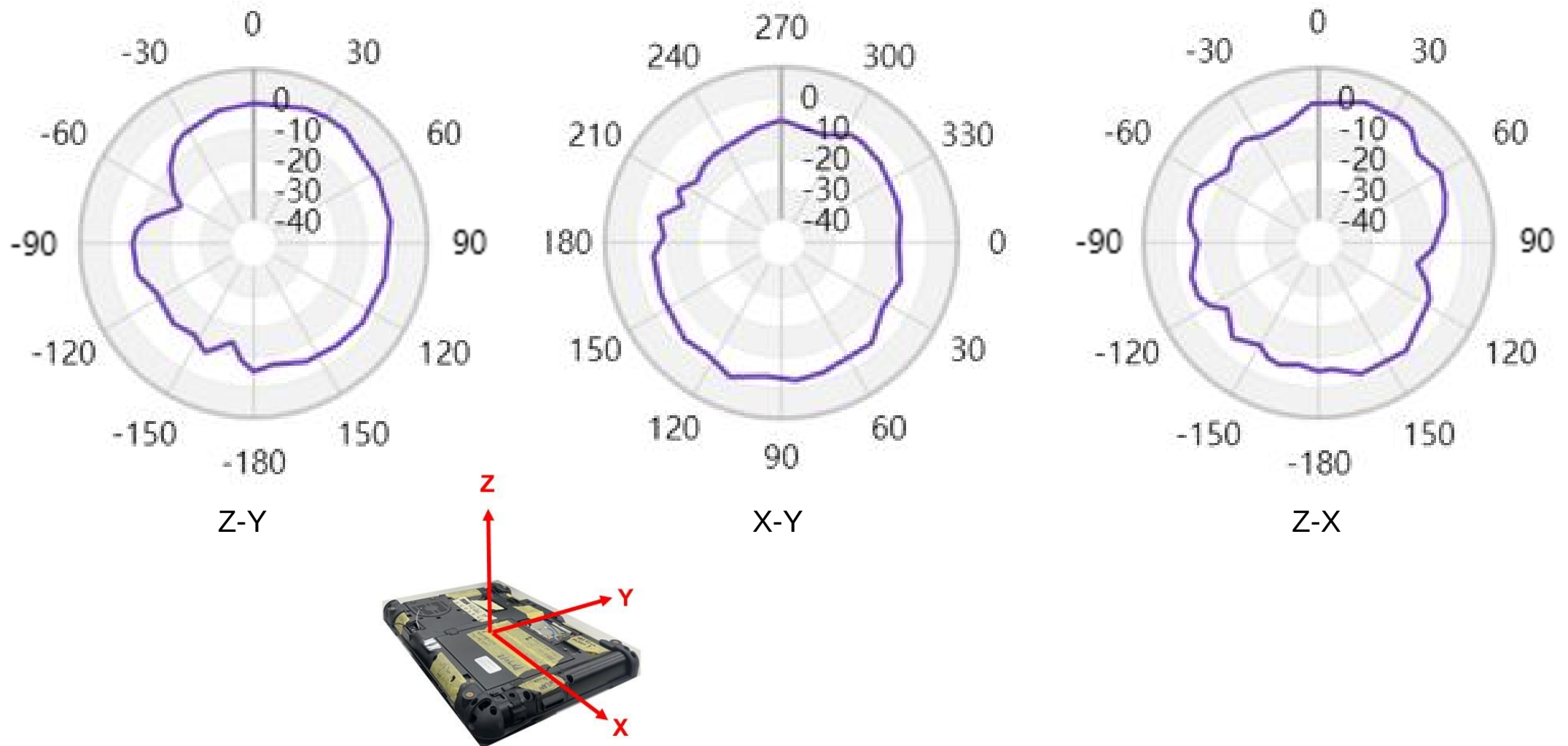
Radiation characteristics of antenna loaded in Host Platform @ 4200MHz:

i ALL6Y-100004(MIMO1)



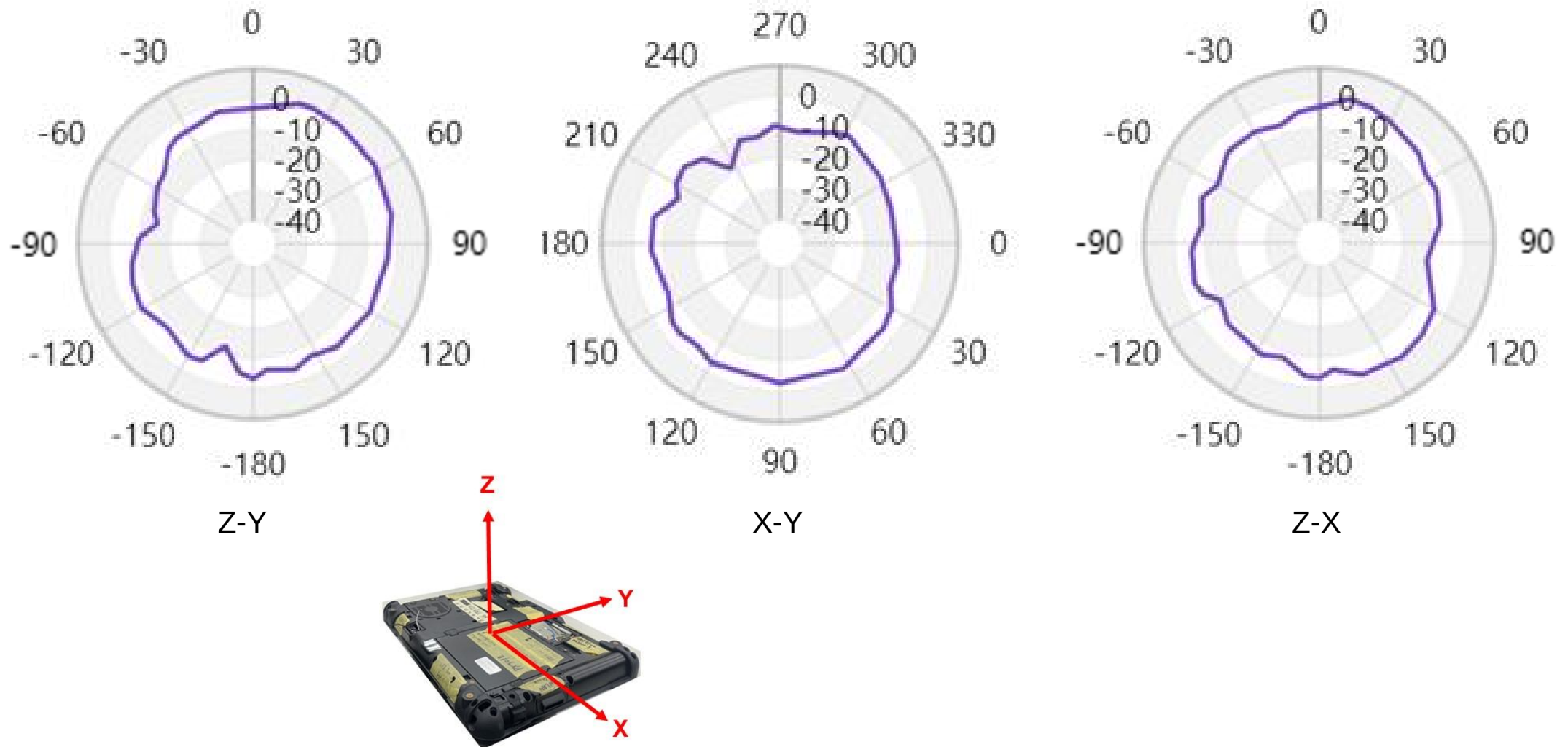
Radiation characteristics of antenna loaded in Host Platform @ 4700MHz:

i ALL6Y-100004(MIMO1)



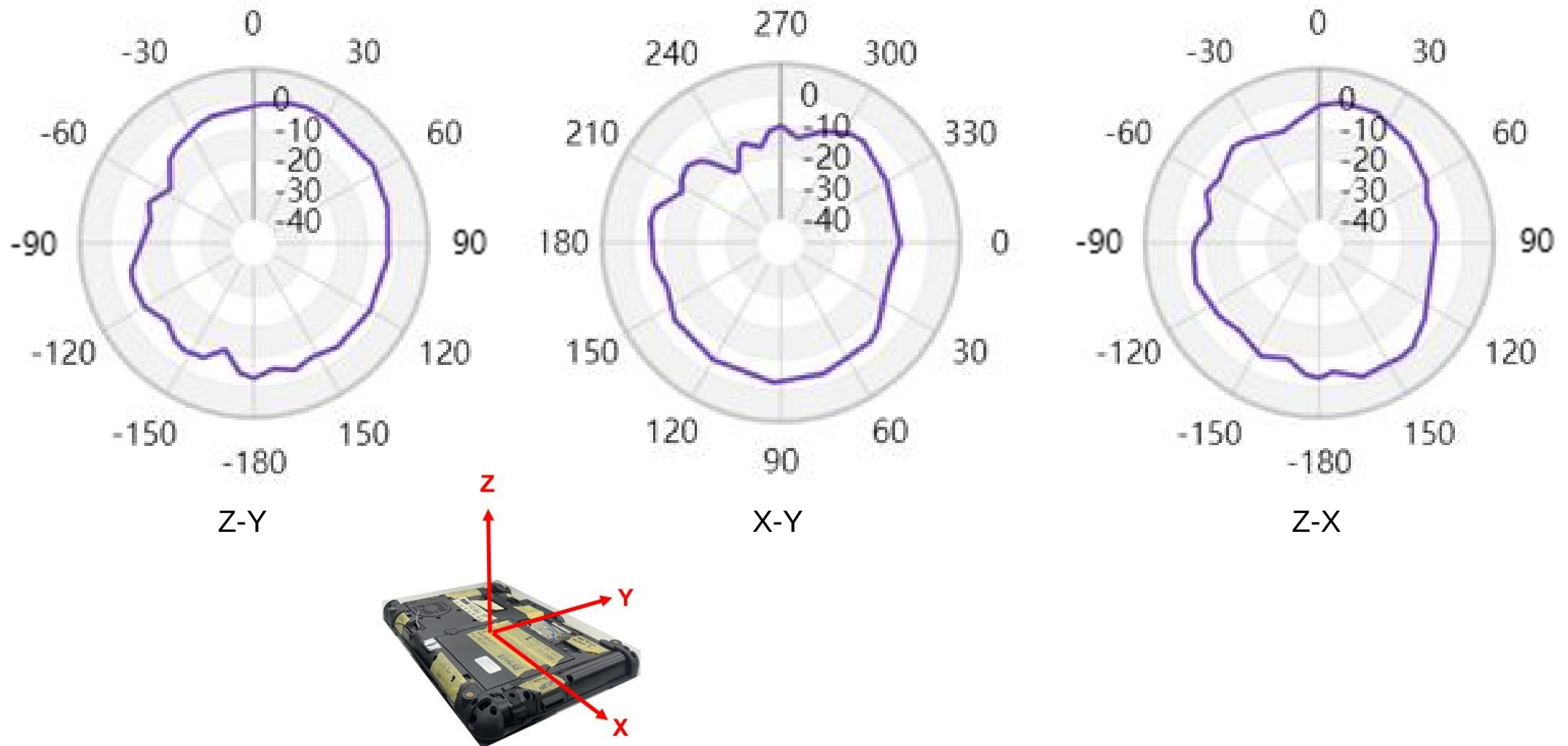
Radiation characteristics of antenna loaded in Host Platform @ 5000MHz:

i ALL6Y-100004(MIMO1)



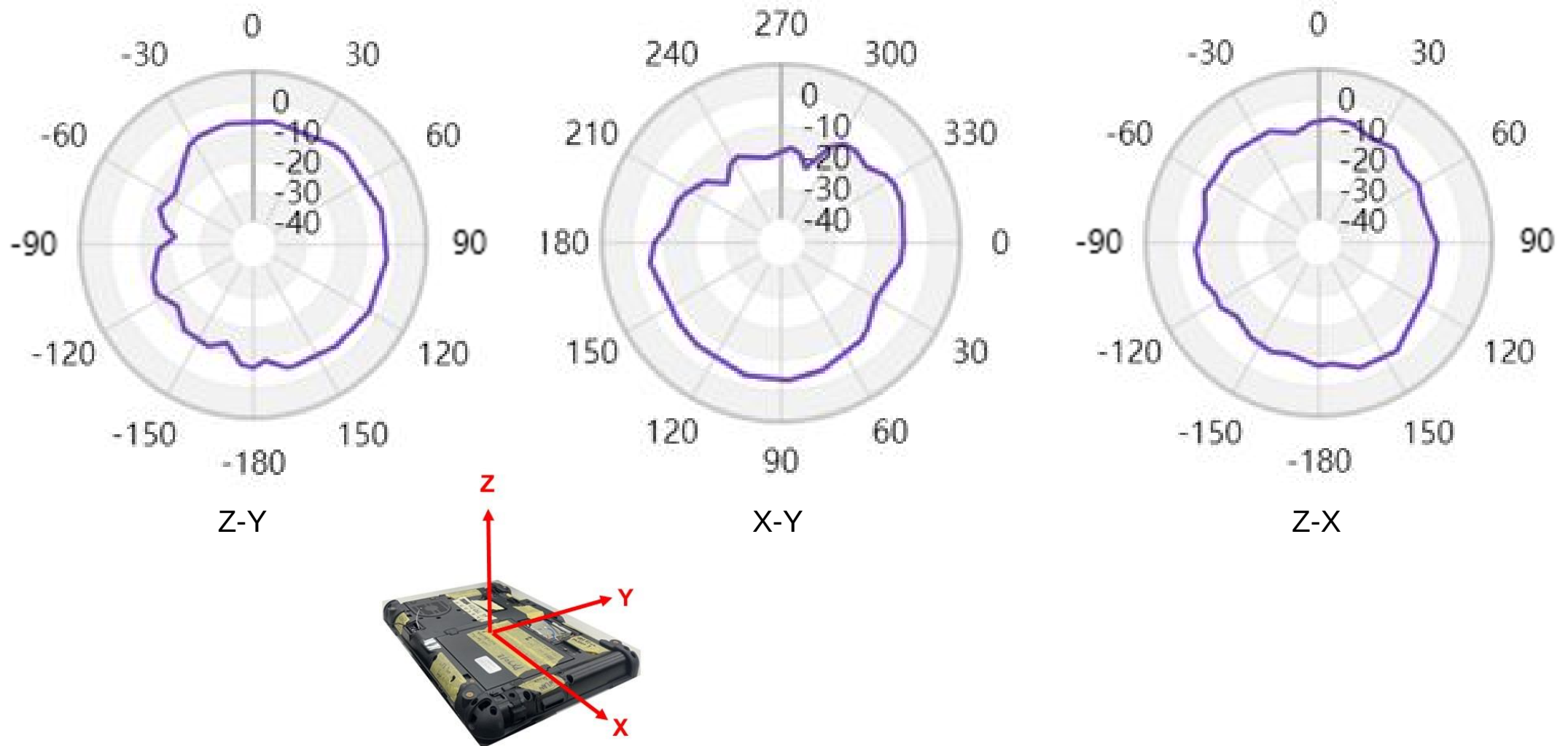
Radiation characteristics of antenna loaded in Host Platform @ 5150MHz:

i ALL6Y-100004(MIMO1)



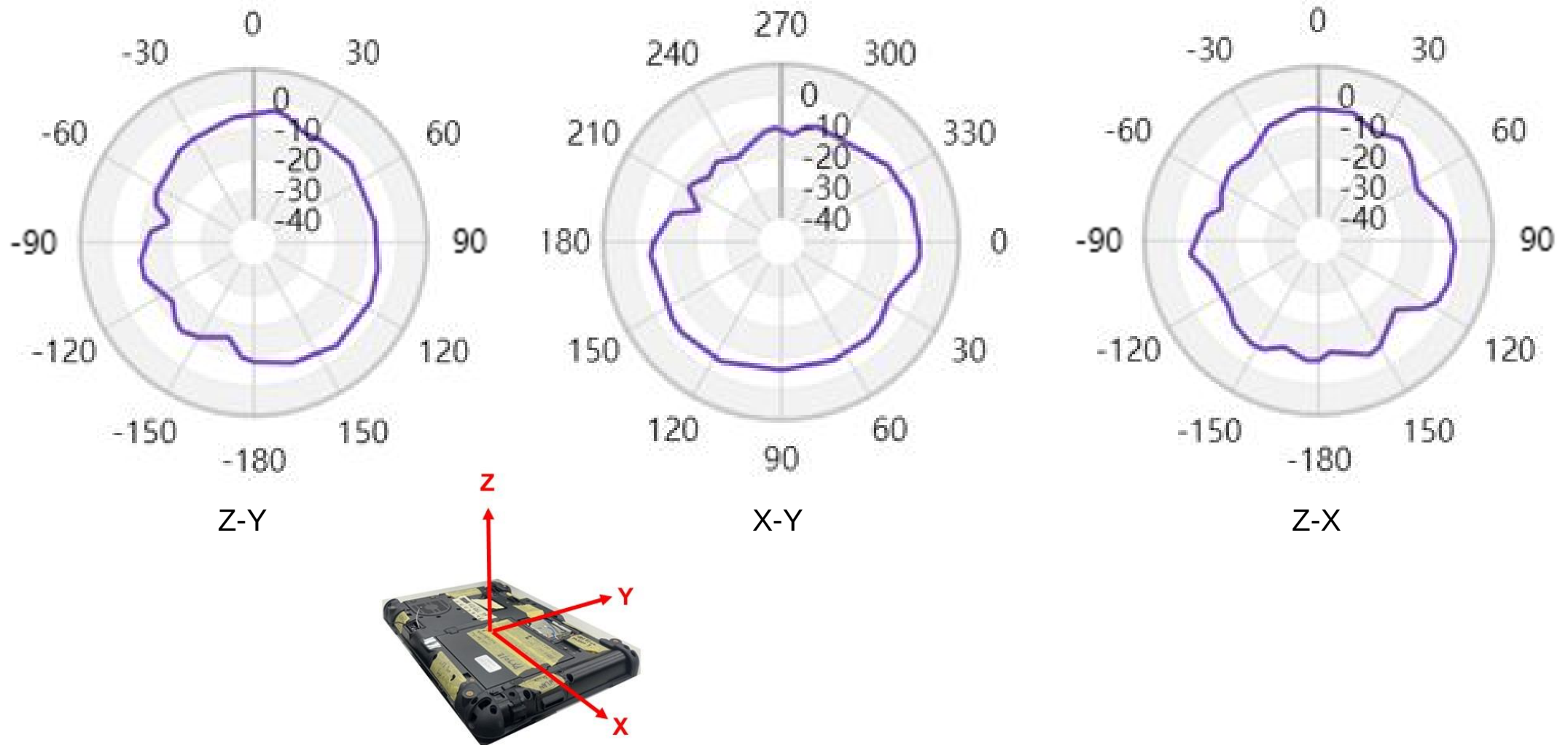
Radiation characteristics of antenna loaded in Host Platform @ 5350MHz:

i ALL6Y-100004(MIMO1)



Radiation characteristics of antenna loaded in Host Platform @ 5600MHz:

i ALL6Y-100004(MIMO1)



Radiation characteristics of antenna loaded in Host Platform @ 5925MHz:

i ALL6Y-100004(MIMO1)

