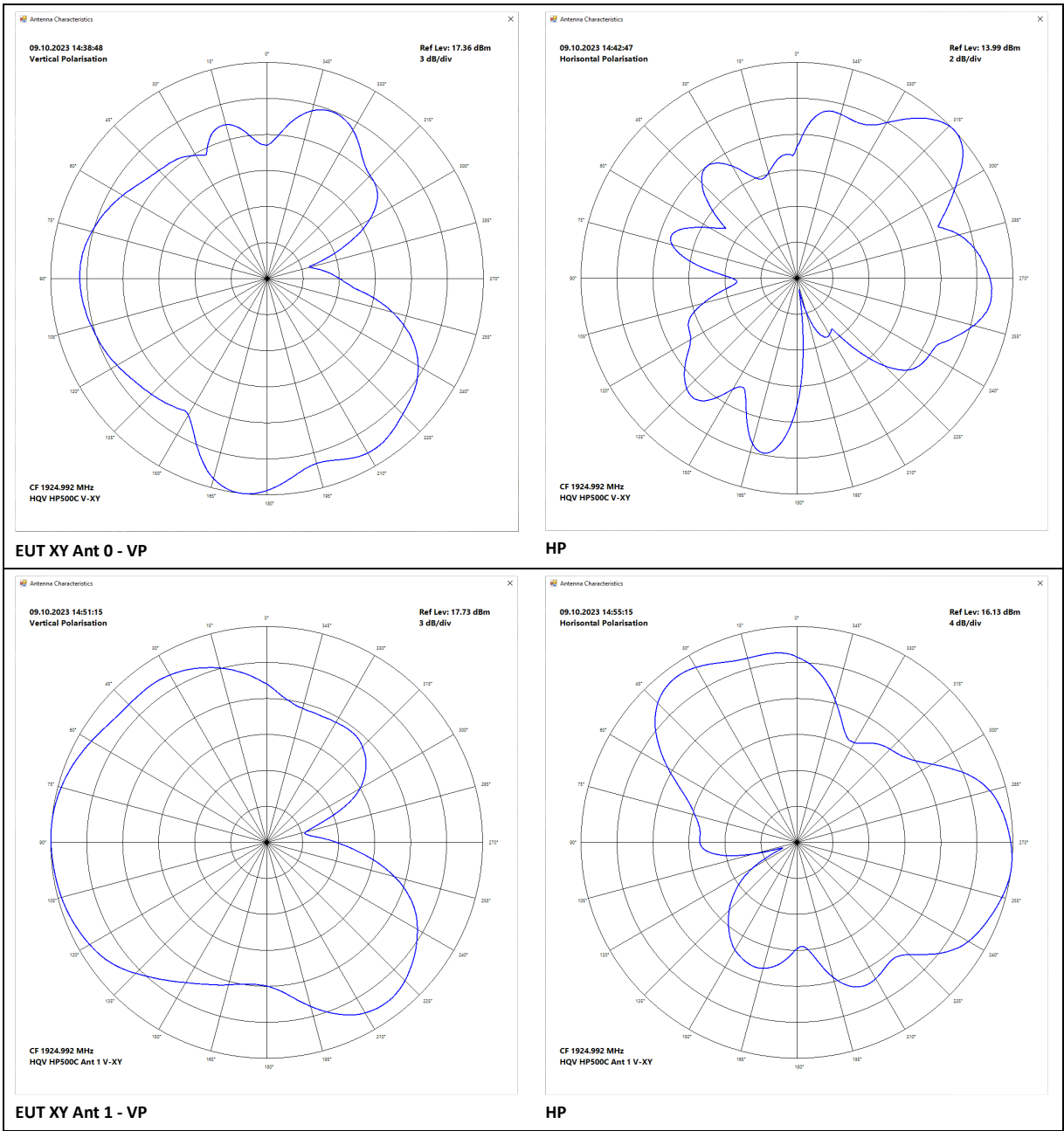
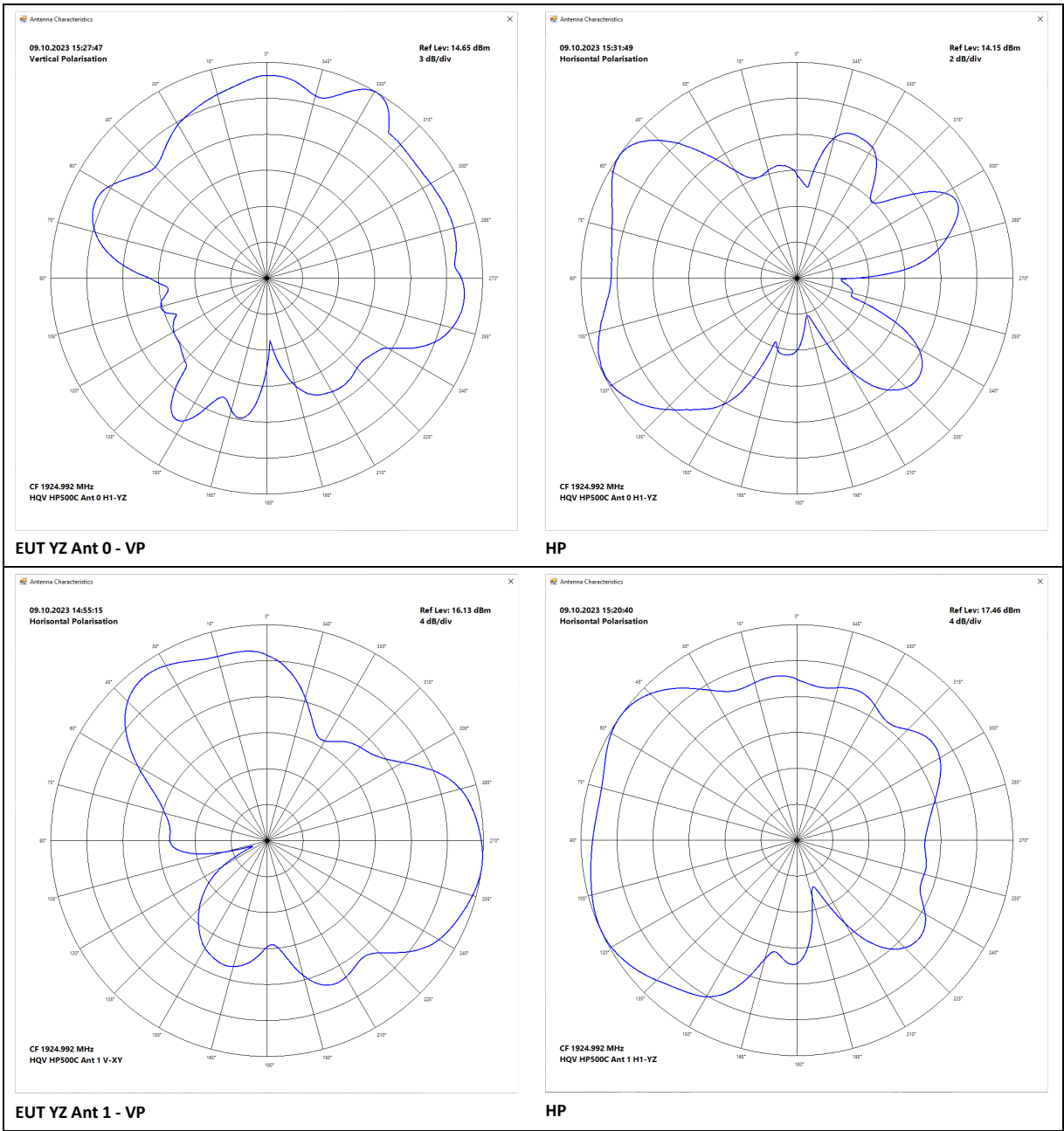






Maximum Antenna Gain – Substitution Method

EUT Direction	Ant #	Pol	Measured Level EUT (dBm)	Subst Gen (dBm)	Measured Lev (dBm)	Corrected Gen Lev (dBm)	Ant. Gain (dBm)	Cable Loss (dB)	Max EIRP (dBm)
EUT XY	0	V	17.36	0	-7.6	24.96	8.35	14.55	18.76
		P	13.99	0	-7.6	21.59	8.35	14.55	15.39
	1	V	17.73	0	-7.6	25.33	8.35	14.55	19.13
		P	16.13	0	-7.6	23.73	8.35	14.55	17.53
EUT YZ	0	V	14.65	0	-7.6	22.25	8.35	14.55	16.05
		P	14.15	0	-7.6	21.75	8.35	14.55	15.55
	1	V	16.13	0	-7.6	23.73	8.35	14.55	17.53
		P	17.46	0	-7.6	25.06	8.35	14.55	18.86

Corrected Level = Measured Level EUT – Measured Level

Max EIRP = Corrected Level + Ant Gain -Cable Loss-Attenuator

“Corrected Gen Level” is the Generator Level to get the same level as from the EUT

Cable Loss includes 10 dB attenuator.

EUT Direction	Ant #	Pol	Conducted Level (dBm)	Max EIRP (dBm)	Maximum Antenna Gain (dBi)
EUT XY	0	V	19.5	18.8	-0.7
		P	19.5	15.4	-4.1
	1	V	19.5	19.1	-0.4
		P	19.5	17.5	-2.0
EUT YZ	0	V	19.5	16.1	-3.5
		P	19.5	15.6	-4.0
	1	V	19.5	17.5	-2.0
		P	19.5	18.9	-0.6



Measurement was performed 09-October-2023 by Frode Sveinsen

Instruments Used

No	Description	Manufaturer	Model	Ref. No.	Cal Date	Cal Due	Cal By
1	Spectrum Analyzer	Rohde & Schwarz	FSW26	LR 1640	2023-01	2024-01	R&S
2	Pre-Amplifier	NardaMiteq	LNA-40-00101800-25-10P	LR 1747	2023-08	2024-08	Nemko
3	Attenuator	Suhner	6810.17B	LR 1669	COU		
4	Horn Antenna	EMCO	3115	LR 1226	2022-11	2027-11	NPL
5	Subst. Generator	Rohde & Schwarz	SMB100A	LR 1790	2023-01	2025-01	R&S
6	Subst. Antenna	EMCO	3115	LR 1330	2022-11	2027-11	NPL
7	Measurement Software	Nemko	Radiated Tests	v.1.0.7.49	N/A		

Test Setup Photos



XY-Position



YZ-Position