

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining return-loss (< -20dB, within 20% from the previous measurement) and impedance (within 5ohm from the previous measurement) requirements per extended calibrations in KDB Publication 865664:

Frequency	Calibration Certificate Value		ICAS Test Value		Return Loss (dB)	Impedance (Ω)	Test Date
	Return Loss (dB)	Impedance (Ω)	Return Loss (dB)	Impedance (Ω)	Limit ($\pm 20\%$ Dev.)	Limit ($\pm 5\Omega$)	
750 Head	-27.80	54.10	-24.81	50.83	-0.11%	3.27	2021/4/13
835 Head	-30.50	50.30	-32.07	48.52	0.05%	1.78	2021/4/13
1800 Head	-26.70	46.90	-28.07	48.11	0.05%	-1.21	2021/4/13
1900 Head	-24.30	49.50	-26.71	46.13	0.10%	3.38	2021/4/13
2300 Head	-28.30	49.00	-25.82	48.53	-0.09%	0.47	2021/4/13
2450 Head	-27.10	49.80	-27.22	45.87	0.00%	3.93	2021/4/13
2600 Head	-22.10	48.20	-21.42	50.87	-0.03%	-2.67	2021/4/13
5200 Head	-26.80	48.10	-25.63	50.00	-0.04%	-1.90	2021/4/13
5800 Head	-28.20	49.50	-23.73	51.49	-0.16%	-1.99	2021/4/13
750 Body	-30.10	49.60	-32.91	48.28	0.09%	1.32	2021/4/14
835 Body	-23.50	46.40	-24.61	45.21	0.05%	1.19	2021/4/14
1800 Body	-22.90	44.00	-22.08	45.85	-0.04%	-1.85	2021/4/14
1900 Body	-23.00	45.70	-21.99	42.50	-0.04%	3.20	2021/4/14
2300 Body	-24.90	45.10	-25.27	46.38	0.02%	-1.28	2021/4/14
2450 Body	-25.00	46.00	-22.73	45.40	-0.09%	0.60	2021/4/14
2600 Body	-20.50	45.10	-22.03	46.28	0.07%	-1.18	2021/4/14
5200 Body	-31.70	48.60	-27.44	51.59	-0.13%	-2.99	2021/4/14
5800 Body	-27.50	51.30	-24.11	51.34	-0.12%	-0.04	2021/4/14

The above tables represent RL and Impedance checks to ensure that extended calibrations are correct per KDB Publication 865664.