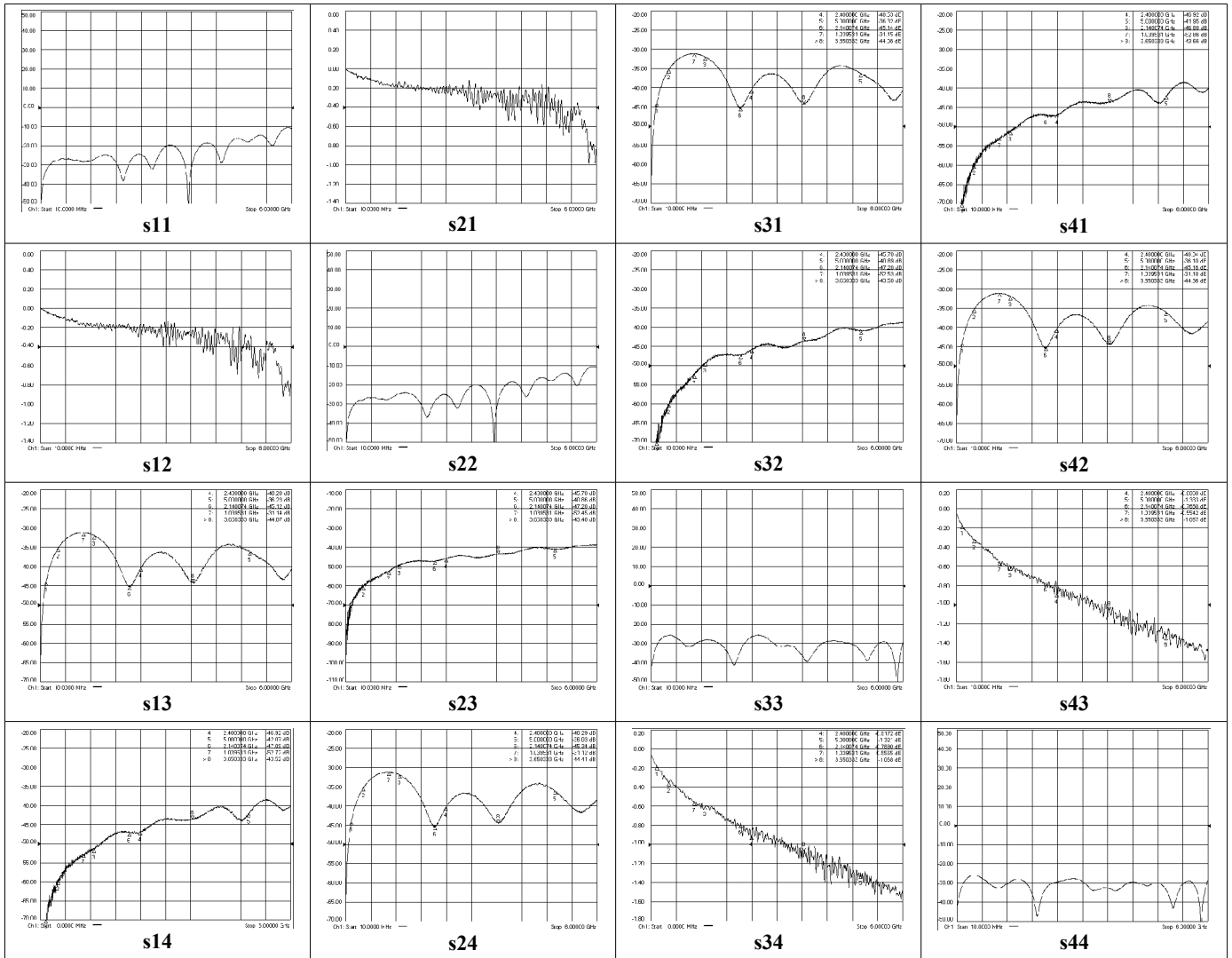


Appendix to:
SWR meter for 144-1296 MHz bands

Parameters of the Coaxial Directional Coupler and Detector

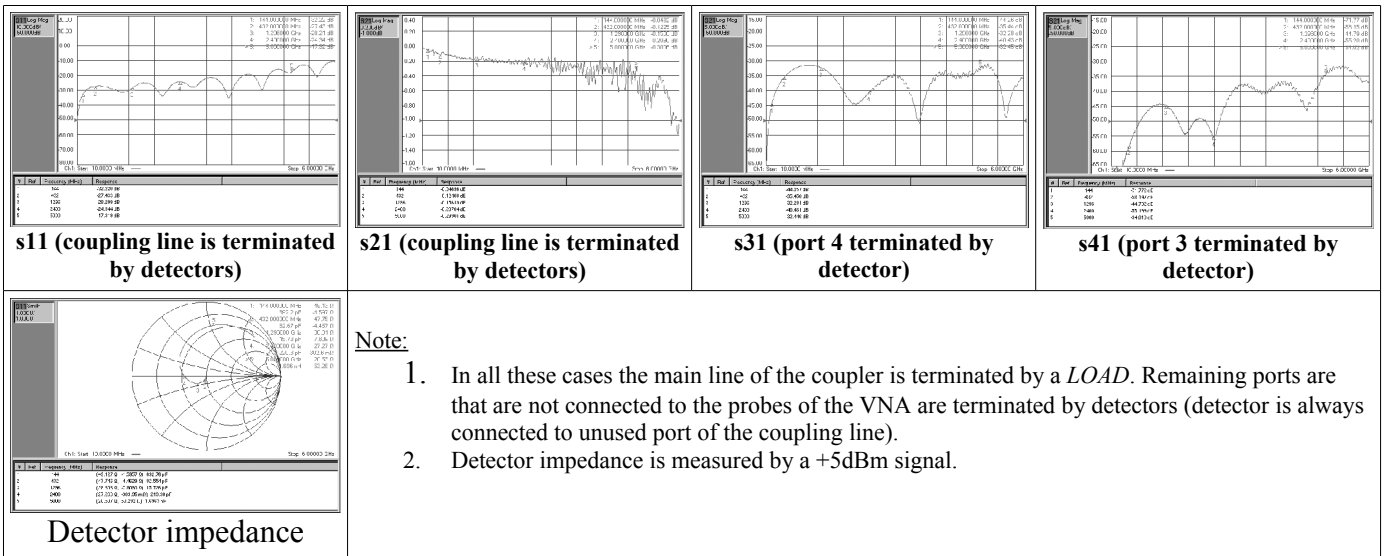
(Honza OK1TIC, ok1tic@seznam.cz)

1) Measurement of the directional coupler using *LOADS* – full S-matrix:



Note: All the ports that are not connected to measurement probes of the VNA are terminated by *LOADS*.

2) Measurement of the directional coupler WITH detectors connected – selected s-parameters:



3) Transmission characteristic of two SMA detectors:

		Input power [dBm]							
		-10	-5	0	5	10	15	20	
Detector 1	Frequency [MHz]	144	61	154	353	748	1476	2807	5169
		432	58	148	341	721	1428	2717	5020
		1296	55	139	320	682	1350	2583	4813
		2400	53	136	320	680	1357	2613	5250
		5000	68	166	365	776	1519	2811	4822
		Input power [dBm]							
		-10	-5	0	5	10	15	20	
Detector 2	Frequency [MHz]	144	62	156	356	752	1483	2817	5223
		432	59	150	343	725	1434	2727	5065
		1296	55	140	322	683	1353	2586	4844
		2400	54	137	320	676	1349	2593	5281
		5000	65	159	348	738	1455	2690	4655

Output voltages [mV]