

# IPA ACS Waveform Data Sheet

Item	Insertion Loss (dB)						Return Loss (dB)							
	Thickness of ACS (mm)		0.15	0.2	0.25	0.3	0.5	0.8	0.15	0.2	0.25	0.3	0.5	0.8
Frequency (GHz)														
5		0.09	0.1	0.35	0.16	0.29	-0.02	-43.19	-32.37	-31.55	-42.93	-17.23	-10.92	
10		0.12	0.15	0.24	0.22	-0.14	-1.05	-32.57	-26.16	-25.19	-48.23	-12.04	-5.73	
15		0.06	0.09	0.1	0.14	-0.56	-2.23	-28.97	-21.5	-21.11	-37.02	-9.93	-4.86	
20		-0.01	0.02	0.01	0.08	-0.71	-9.45	-22.16	-23.6	-23.88	-27.83	-11.62	-1.63	
25		-0.05	-0.11	-0.14	0.04	-1.36	-5.43	-23.04	-17.66	-17.53	-25.1	-8.69	-7.16	
30		-0.11	-0.16	-0.28	-0.03	-1.72	-7.24	-21.97	-20.35	-21.23	-29.11	-9.96	-5.25	
35		-0.24	-0.29	-0.37	-0.19	-3.39	-12.81	-20.42	-14.14	-14.77	-23.18	-9.21	-7.73	
40		-0.44	-0.29	-0.35	-0.49	-4.49	-20.06	-15.04	-40.46	-35.14	-19.94	-10.96	-4.65	
45		-0.58	-0.62	-0.67	-0.58	-9.96	-22.28	-18.4	-12.04	-13.41	-15.98	-10.81	-8.02	
50		-0.64	-0.73	-0.9	-0.8	-11.33	-36.19	-18.46	-15.49	-12.88	-12.25	-14.18	-11.15	
55		-0.95	-0.96	-1.17	-1.21	-11.98	-26.88	-16.04	-14.41	-22.51	-30.41	-8.72	-10.92	

Model of measuring instrument : N5227B (US63055379)+AFR

## Photos of the instrument



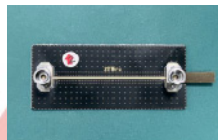
PCBA & Cable



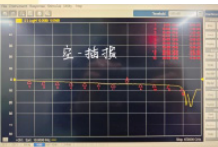
PCBA



PCBA & ACS



AFR Before



AFR After



## Waveform diagram

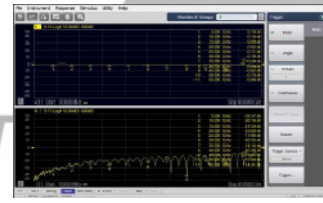
Thickness of ACS (mm)

Waveform diagram of loss

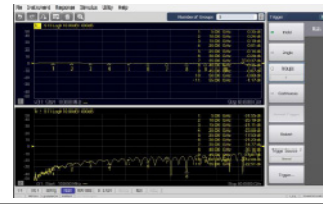
0.15



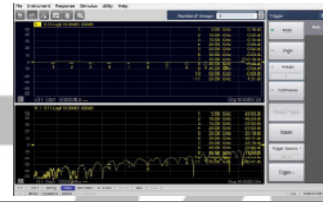
0.2



0.25



0.3



0.5



0.8

