APEX RF Monitor Cable Calibrations																				
		Signal Source	Signal Source	Cable	Splitter	Cable	Splitter &	Expected F.S. Signal Level @	Actual Signal Level @	Chassis Signal Path	Chassis Signal Path	Chassis	Total Atten	Measured Signal	Actual Signal	Coupling Factor for	Front Panel Port	Front Panel Port		Overall Full
	Cable	•	Coupling Factor	Atten	•	Length	Cable Length	Chassis R.P. connector	Chassis R.P. connector	Loss (back calc'd)	Length Difference	Atten	& Loss	Level at ADC	level at F.P. Port	Internal Coupler	Coupling (from R.P.)	Coupling (from source)	Overall Full	Scale
Signal Name	#	(dBm)	(dB)	(dB)	(dB)	(°)	(°)	(dBm)	(dBm)	(dB)	(°)	(dB)	(dB)	(dBFS)	(dBm)	(dB)	(dB)	(dB)	Scale (dBm)	(Watts)
Cav A3 FWD, (splitter)	18	77.78	-50.0	-3.727	-3.312	47.09	11.10	20.74	20.52	-15.80	NaN	-4.919	-77.759	-0.200	-4.900	-20.501	-25.42	-82.459	77.76	59689.8
Cav A3 REV	17	77.78	-50.0	-3.800	0.000	NaN	NaN	23.98	24.21	-15.73	NaN	-8.935	-78.460	-0.450	-5.200	-20.475	-29.41	-83.2	78.46	70145.5
Cav Cell Probe #1	16	80.78	-47.8	-3.700	0.000	NaN	NaN	29.28	27.58	-16.34	NaN	-12.963	-80.800	-1.720 -0.950	-5.900 6.300	-20.517	-33.48	-85.0	80.80	120226.4
Laser Freq Input	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	-16.10	-14.85	NaN	30.000	NaN	-0.950	-6.300	-20.200	9.80	NaN	NaN	NaN
Cav A4 FWD	21	77.78	-50.0	-3.706	0.000	131.75	NaN	24.07	24.13	-2.18	NaN	-22.477	-78.366	-0.530	-18.800	-20.453	-42.93	-96.636	78.37	68643.6
Cav A4 REV	20	77.78	-50.0	-3.800	0.000	NaN	NaN	23.98	24.05	-1.97	18.59	-22.490	-78.260	-0.410	-18.900	-20.460	-42.95	-96.750	78.26	66988.5
Cav Cell Probe #2	19 NaN	80.78	-50.1	-3.700		NaN	NaN	26.95	26.92	-3.19	NaN	-25.414	-82.43	-1.680	-19.100	-20.606	-46.02	-99.85	82.43	174984.7
Cav A3 FWD, (splitter)	NaN	77.78	-50.0	-3.727	-3.308	47.09	11.20	20.75	20.57	-0.91	NaN	-20.097	-78.045	-0.440	-19.900	-20.373	-40.47	-97.505	78.05	63752.9
Tetrode A3 FWD	7	77.78	-63.9	-0.561	0.000	-66.28	NaN	13.32	13.37	-2.17	NaN	-12.055	-78.681	-0.850	-19.100	-20.415	-32.47	-96.931	78.68	73807.4
Tetrode A3 REV	8	77.78	-64.0	-0.600		NaN	NaN	13.18	13.17	-1.45	-6.60	-12.039	-78.090	-0.320	-19.300	-20.431	-32.47	-97.070	78.09	64416.9
Tetrode A4 PEV	9	77.78	-63.6	-0.611		134.84	NaN	13.57	13.55	-1.90 2.22	NaN	-12.110	-78.221	-0.460	-19.000	-20.440	-32.55	-96.761	78.22	66389.6
Tetrode A4 REV	10	77.78	-63.8	-0.600	0.000	NaN	NaN	13.38	13.36	-2.22	NaN	-12.010	-78.630	-0.870	-19.300	-20.650	-32.66	-97.060	78.63	72945.8
Circ 1 Load FWD	1	77.78	-50.0	-1.400	0.000	NaN	NaN	26.38	26.43	-2.06	NaN	-25.252	-78.710	-0.880	-19.300	-20.478	-45.73	-97.130	78.71	74301.9
Circ 1 Load REV	2	77.78	-50.1	-1.400		NaN	NaN	26.28	26.26	-2.62	NaN	-23.780	-77.900	-0.140	-18.000	-20.480	-44.26	-95.760	77.90	61659.5
Circ 2 Load FWD	5	77.78	-50.0	-1.400		NaN	NaN	26.38	26.36	-2.88	NaN	-23.580	-77.860	-0.100	-17.700	-20.480	-44.06	-95.460	77.86	61094.2
Circ 2 Load REV	4	77.78	-50.0	-1.300	0.000	NaN	NaN	26.48	26.43	-2.29	NaN	-24.456	-78.050	-0.320	-18.500	-20.474	-44.93	-96.230	78.05	63826.3
SSPA A1 FWD	15	64.77	-53.8	-0.462	0.000	-72.44	NaN	10.51	10.46	-1.97	NaN	-8.856	-65.092	-0.370	-18.900	-20.504	-29.36	-83.622	65.09	3230.0
SSPA A1 REV	14	64.77	-50.0	-0.500	0.000	NaN	NaN	14.27	13.97	-1.41	-7.22	-12.700	-64.610	-0.140	-19.200	-20.470	-33.17	-83.670	64.61	2890.7
SSPA A2 FWD	13	64.77	-53.7	-0.524	0.000	60.35	NaN	10.55	10.25	-1.68	NaN	-8.705	-64.604	-0.130	-19.100	-20.645	-29.35	-83.574	64.60	2886.7
SSPA A2 REV	12	64.77	-50.0	-0.600	0.000	NaN	NaN	14.17	13.95	-1.46	NaN	-12.650	-64.710	-0.160	-19.200	-20.500	-33.15	-83.750	64.71	2958.0
Splitter S -> 1, incl cable					3.312	11.1	·····													
Splitter S -> 2, incl cable					3.308	11.2														
										Test Signal Adjustment Needed										
										or Additional Chassis										
										Atten Needed (col I-	Calibration Signal									
										col J)	Error									
Cav A3 FWD, (splitter)							······		Cav A3 FWD, (splitter)	(dB) 0.22	(%) 5.2									
Cav A3 REV									Cav A3 REV	-0.23	-5.2									
Cav Cell Probe #1								Cav Cell Probe #1	1.70	47.9										
Laser Freq Input									Laser Freq Input											
Cav A4 FWD									Cav A4 FWD	-0.06	-1.3	•								
Cav A4 REV									Cav A4 REV	-0.07	-1.6									
Cav Cell Probe #2									Cav Cell Probe #2	0.03	0.7									
Cav A3 FWD, (splitter)									Cav A3 FWD, (splitter)	0.18	4.1									
Tetrode A3 FWD									Tetrode A3 FWD	-0.05	-1.2	•								
Tetrode A3 REV									Tetrode A3 REV	0.01	0.2									
Tetrode A4 FWD									Tetrode A4 FWD	0.02	0.4									
Tetrode A4 REV									Tetrode A4 REV	0.02	0.5									
Circ 1 Load FWD									Circ 1 Load FWD	-0.05	-1.1									
Circ 1 Load REV									Circ 1 Load REV	0.02	0.5									
Circ 2 Load FWD									Circ 2 Load FWD	0.02	0.5									
Circ 2 Load REV									Circ 2 Load REV	0.05	1.2									
SSPA A1 FWD									SSPA A1 FWD	0.05	1.1									
SSPA A1 PWD									SSPA A1 REV	0.30	7.2									
SSPA A2 FWD									SSPA A2 FWD	0.30	7.1									
SSPA A2 REV								SSPA A2 REV	0.22	5.2										