

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	Overall Full	
Signal Name	Cable #	Power Level (dBm)	Coupling Factor (dB)	Atten (dB)	Atten (dB)	Length (°)	Cable Length (°)	Chassis R.P. connector (dBm)	Chassis R.P. connector (dBm)	Loss (back calc'd) (dB)	Length Difference (°)	Atten (dB)	& Loss (dB)	Level at ADC (dBFS)	level at F.P. Port (dBm)	Internal Coupler (dB)	Coupling (from R.P.) (dB)	Coupling (from source) (dB)	Scale (dBm)	Scale (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	-5.900	-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	80.78	-50.1	-3.700	0	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	0.000	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 FWD	9	77.78	-63.6	-0.611	0.000	134.84	NaN	13.57	13.55	-1.90	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	0.000	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	0.000	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															
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