

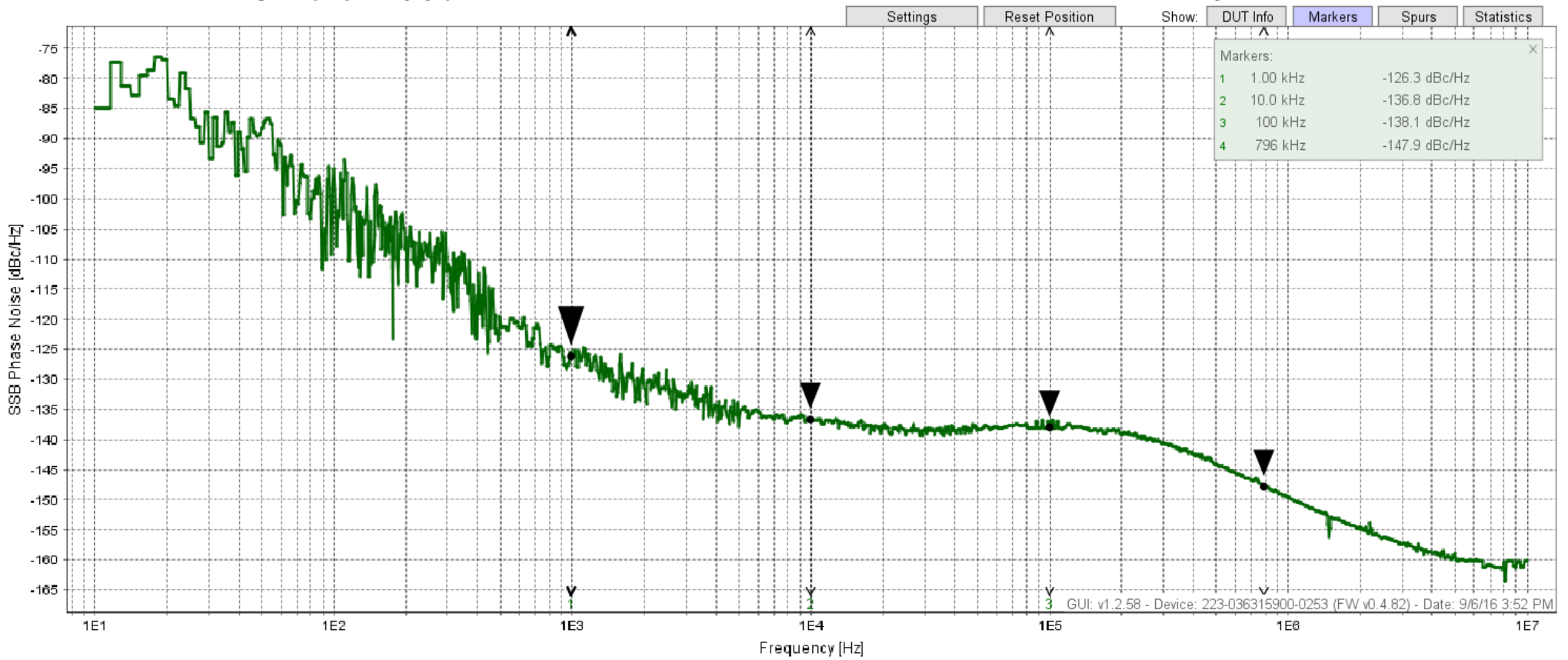
Measurement

DUT Info

Selected Trace trace 1
DUT Frequency 163.83760 MHz
DUT Power 10.0 dBm

Measurement Parameters

Kphi 0.341 / 0.327 V/rad
Tune Slope 263 / 299 Hz/V
PLL BW 12.8 Hz



trace 1

Statistics

Markers

Hz	dBc/Hz
1000	-126.3
10000	-136.8
100000	-138.1
795735	-147.9

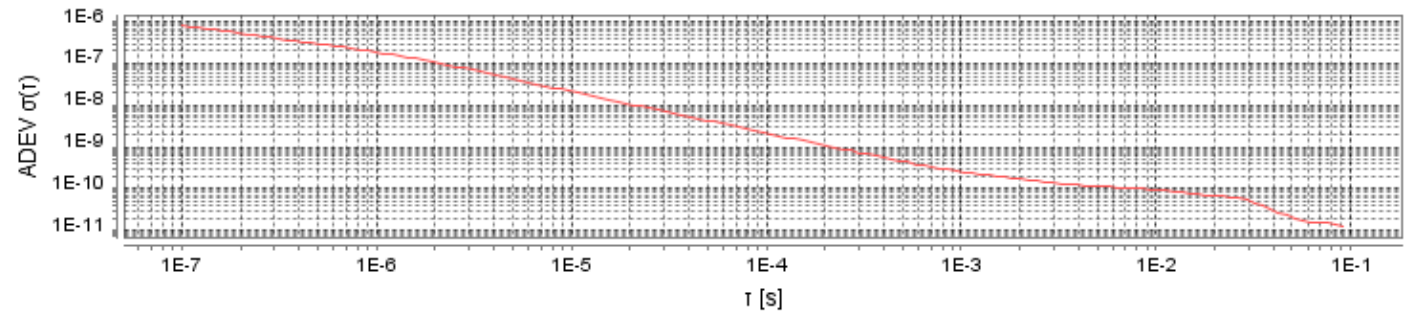
Spurs

Hz	dBc/Hz
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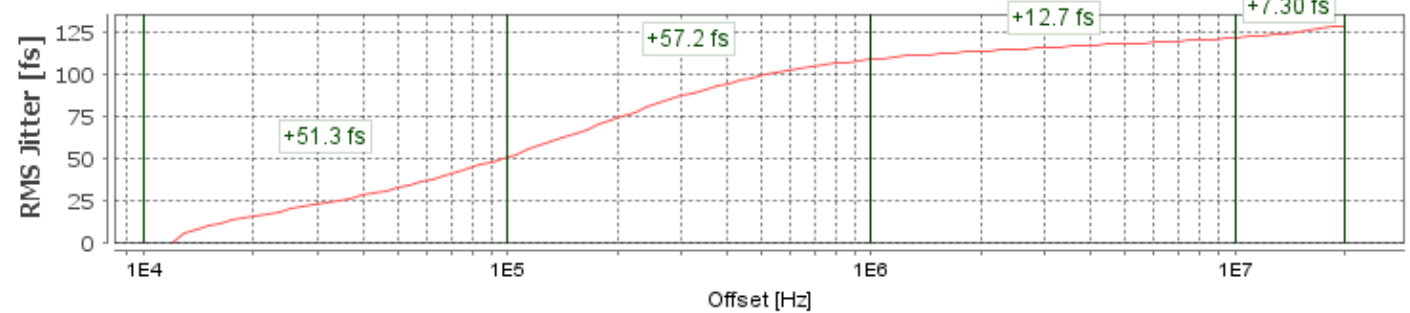
Residual Noise

Range 12.0 kHz - 20.000000 MHz
 RMS Jitter 0.1285 ps
 Residual PM 0.0001 °
 Residual FM 716 Hz
 Integral PhN -80.6 dBc / 19.988000 MHz

Allan Deviation



RMS Jitter



Phase Noise Measurement Data Table

0.1 - 50		50 - 500		500 - 5k		5k - 50k		50k - 500k		500k - 5M		5M - 50M	
Hz	dBc/Hz	Hz	dBc/Hz	Hz	dBc/Hz	Hz	dBc/Hz	Hz	dBc/Hz	Hz	dBc/Hz	Hz	dBc/Hz
10	-85.0	50	-88.3	501	-121.2	5012	-135.7	50119	-138.3	501187	-144.3	5011872	-159.8
11	-85.0	54	-86.8	541	-121.9	5412	-135.3	54117	-137.6	541170	-144.6	5411695	-160.0
12	-77.4	58	-90.3	584	-120.3	5843	-135.0	58434	-137.9	584341	-145.3	5843414	-160.1
13	-77.4	63	-97.6	631	-121.1	6310	-136.1	63096	-138.0	630957	-146.0	6309573	-160.1
14	-81.2	68	-102.4	681	-123.2	6813	-136.2	68129	-137.6	681292	-146.5	6812921	-160.8
15	-82.8	74	-94.5	736	-124.1	7356	-136.4	73564	-137.5	735642	-146.3	7356423	-161.3
16	-79.4	79	-103.4	794	-126.2	7943	-137.3	79433	-137.5	794328	-147.9	7943282	-160.3
17	-78.6	86	-99.1	858	-124.8	8577	-136.4	85770	-138.1	857696	-148.4	8576959	-160.2
18	-76.5	93	-110.0	926	-127.6	9261	-136.2	92612	-136.8	926119	-149.1	9261187	-160.2
20	-76.9	100	-94.9	1000	-126.3	10000	-136.8	100000	-138.1	1000000	-149.7	10000000	-160.2
22	-84.6	108	-96.7	1080	-126.0	10798	-136.7	107978	-137.1	1079775	-150.4		
23	-79.1	117	-110.3	1166	-125.9	11659	-136.8	116591	-137.8	1165914	-150.9		
25	-86.8	126	-109.0	1259	-127.8	12589	-136.8	125893	-138.0	1258925	-151.4		
27	-88.0	136	-103.5	1359	-129.0	13594	-137.1	135936	-137.9	1359356	-152.1		
29	-85.6	147	-109.9	1468	-129.4	14678	-137.8	146780	-138.5	1467799	-154.1		
32	-86.4	158	-108.3	1585	-125.9	15849	-137.2	158489	-138.6	1584893	-153.2		
34	-90.6	171	-107.1	1711	-129.1	17113	-137.8	171133	-138.9	1711328	-153.6		
37	-88.8	185	-110.1	1848	-133.2	18478	-137.9	184785	-138.4	1847850	-154.3		
40	-88.9	200	-108.4	1995	-131.5	19953	-137.7	199526	-139.1	1995262	-154.5		
43	-95.5	215	-110.2	2154	-130.3	21544	-139.2	215443	-138.8	2154435	-155.3		
46	-88.9	233	-107.6	2326	-132.4	23263	-138.8	232631	-139.6	2326305	-155.8		
		251	-108.7	2512	-130.1	25119	-138.7	251189	-139.7	2511886	-156.2		
		271	-106.5	2712	-135.0	27123	-138.5	271227	-140.1	2712273	-156.8		
		293	-108.3	2929	-133.3	29286	-139.4	292864	-140.6	2928645	-157.3		
		316	-118.6	3162	-130.4	31623	-138.1	316228	-141.0	3162278	-157.1		
		341	-110.4	3415	-133.3	34145	-138.2	341455	-141.1	3414549	-158.0		
		369	-114.8	3687	-133.6	36869	-138.4	368695	-141.8	3686945	-159.0		
		398	-116.1	3981	-134.3	39811	-138.5	398107	-142.4	3981072	-158.7		
		430	-112.9	4299	-134.5	42987	-138.3	429866	-142.4	4298662	-159.3		
		464	-114.9	4642	-135.3	46416	-138.2	464159	-142.9	4641589	-159.4		