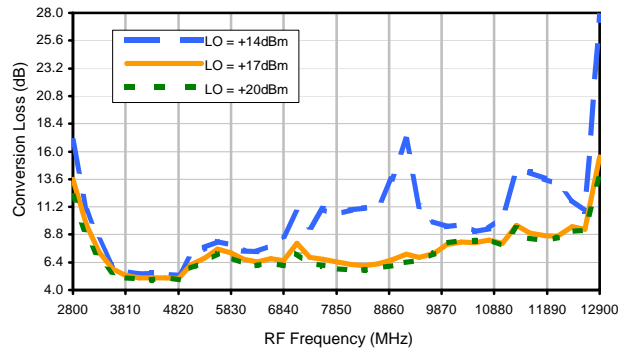
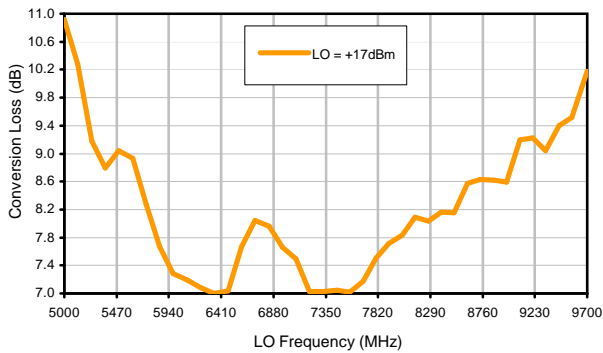


Typical Performance Curves

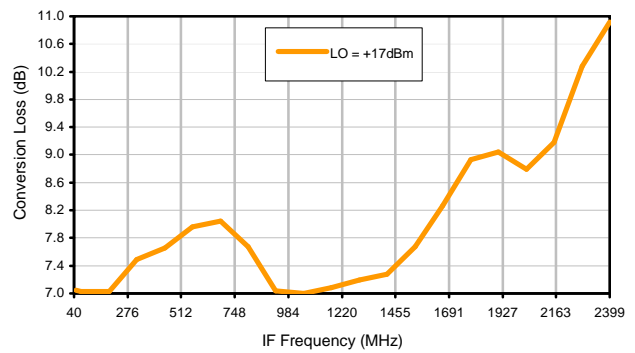
Conversion Loss @ IF=30MHz



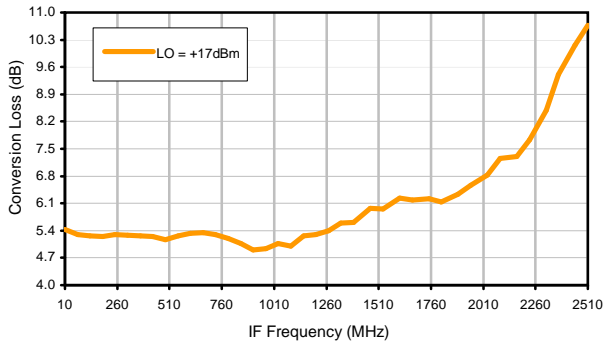
Conversion Loss vs. LO @ RF=7400MHz



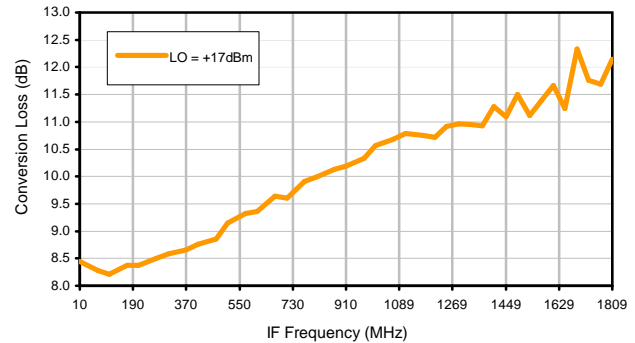
Conversion Loss vs. IF @ RF=7400MHz



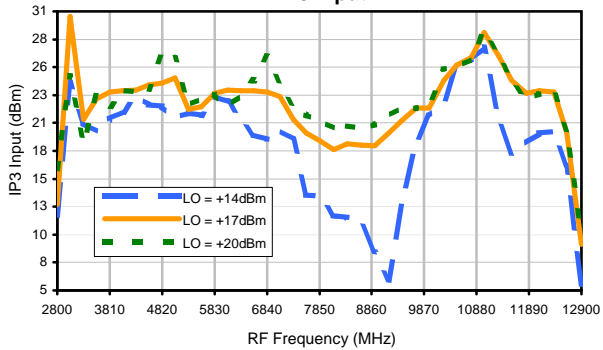
Conversion Loss vs. IF @ RF=3790MHz



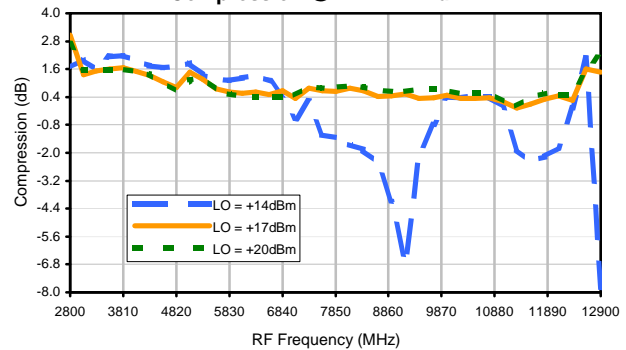
Conversion Loss vs. IF @ RF=11010.09MHz



IP3 Input

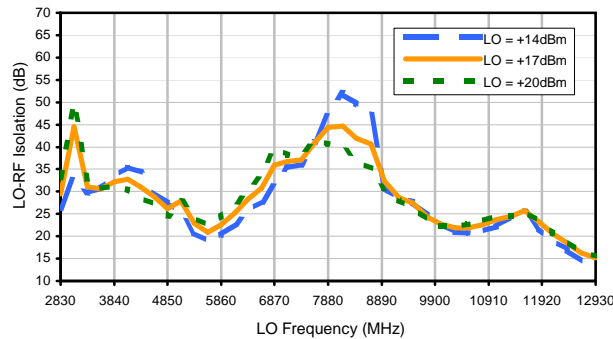


Compression @ RF IN=+14dBm

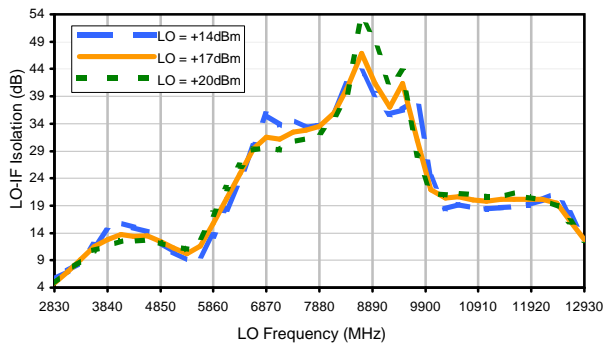


Typical Performance Curves

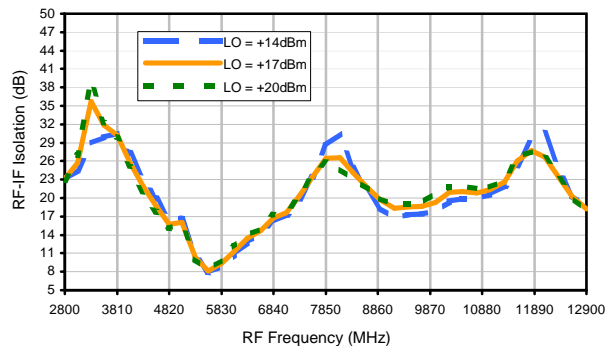
LO-RF Isolation



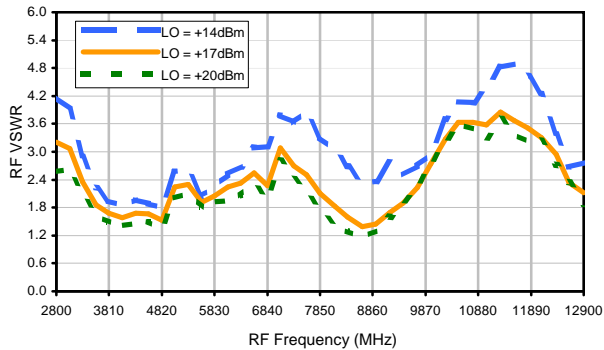
LO-IF Isolation



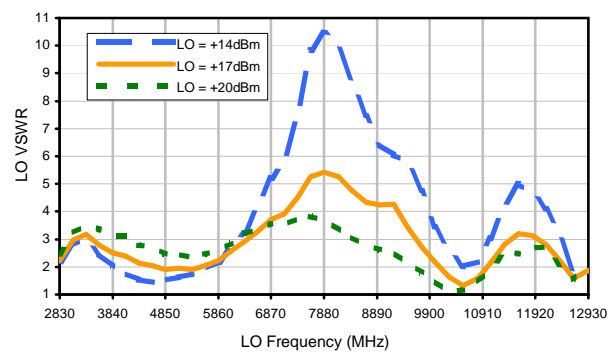
RF-IF Isolation



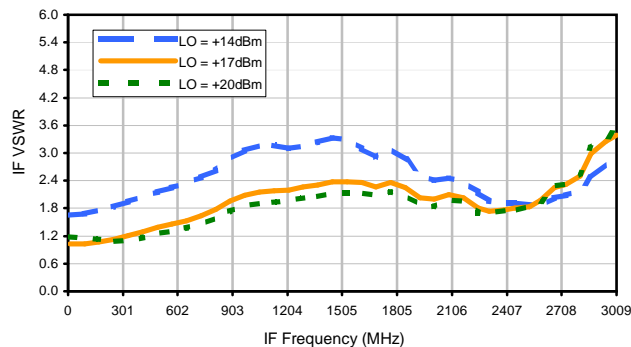
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

MCA1-113H+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	41	22	---	---	---	---	---	---	---
1	-	13	+0	31	37	44	---	---	---	---	---	---
2	55	52	59	55	66	56	66	---	---	---	---	---
3	70	68	79	>82	56	>82	75	>82	---	---	---	---
4	---	---	>82	>82	>82	>82	>82	>82	>82	---	---	---
5	---	---	---	>82	>82	>82	>82	>82	>82	>82	---	---
6	---	---	---	---	>82	>82	>82	>82	>82	>82	>82	---
7	---	---	---	---	---	>82	>82	>82	>82	>82	>82	>82
8	---	---	---	---	---	---	>82	>82	>82	>82	>82	>82
9	---	---	---	---	---	---	---	>82	>82	>82	>82	>82
10	---	---	---	---	---	---	---	---	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 7400 MHz; -1.00 dBm.
 LO IN: 7430 MHz; +17.00 dBm
 IF OUT: 30 MHz; -8.27 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	46	33	---	---	---	---	---	---	---
1	-	14	+0	32	37	45	---	---	---	---	---	---
2	35	40	49	44	57	50	66	---	---	---	---	---
3	50	48	57	60	36	60	58	74	---	---	---	---
4	---	---	72	66	73	60	80	64	77	---	---	---
5	---	---	---	75	78	79	55	75	77	87	---	---
6	---	---	---	---	>92	85	89	75	87	77	86	---
7	---	---	---	---	---	>92	>92	>92	68	>92	86	>92
8	---	---	---	---	---	---	>92	>92	>92	84	>92	87
9	---	---	---	---	---	---	---	>92	>92	>92	81	>92
10	---	---	---	---	---	---	---	---	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 7400 MHz; 9.00 dBm.
 LO IN: 7430 MHz; +17.00 dBm
 IF OUT: 30 MHz; 1.81 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

