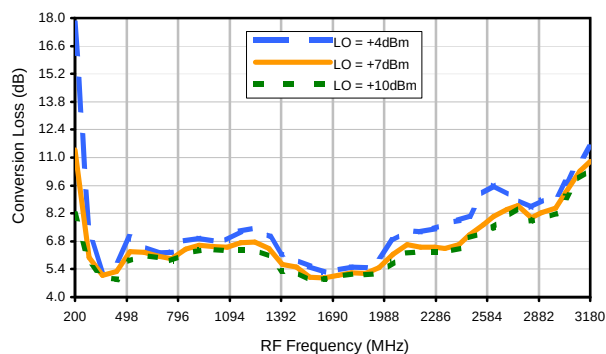


Frequency Mixer

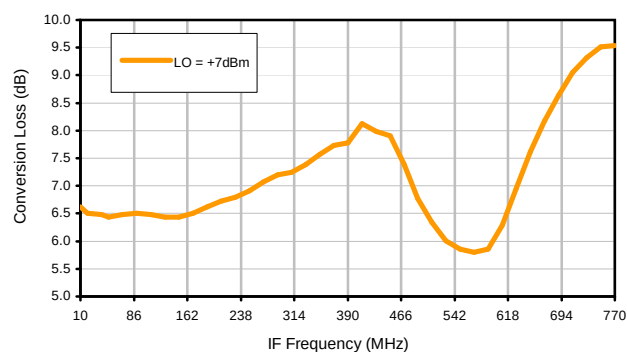
MCA1T-24+

Typical Performance Curves

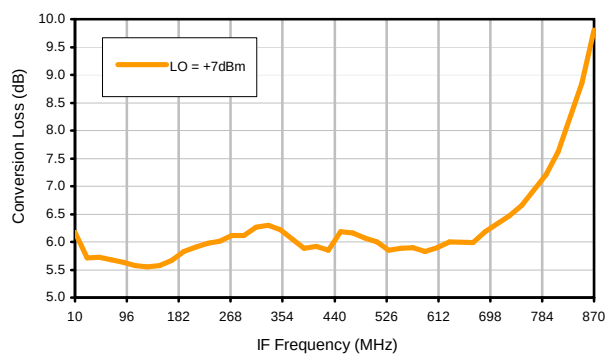
Conversion Loss @ IF=30MHz



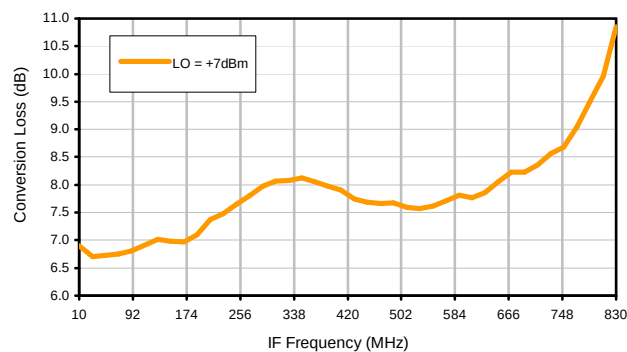
Conversion Loss vs. IF @ RF=1210.1MHz



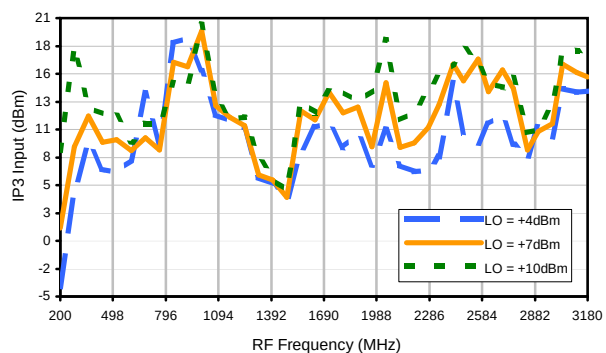
Conversion Loss vs. IF @ RF=289.9MHz



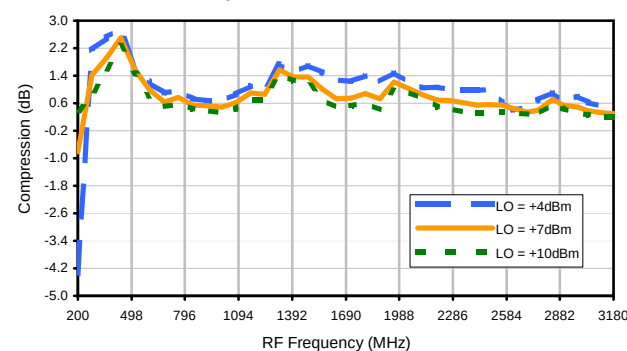
Conversion Loss vs. IF @ RF=2410.1MHz



IP3 Input

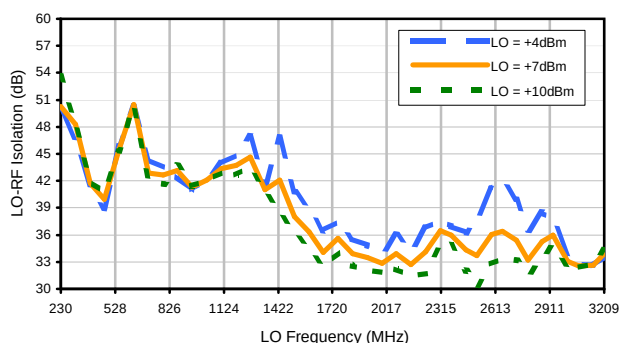


Compression @ RF IN=+1dBm

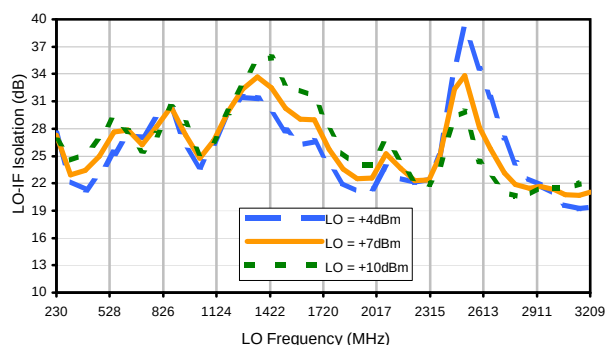


Typical Performance Curves

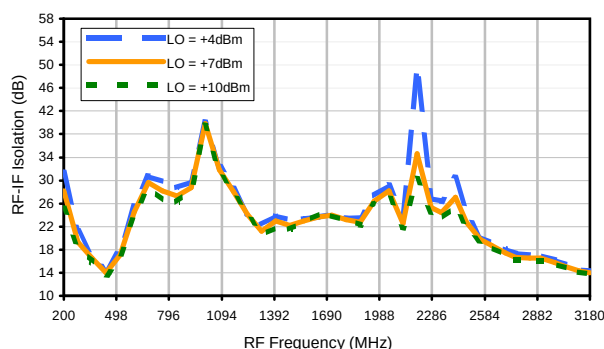
LO-RF Isolation



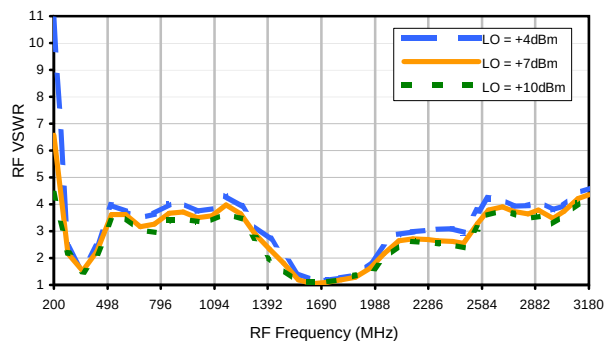
LO-IF Isolation



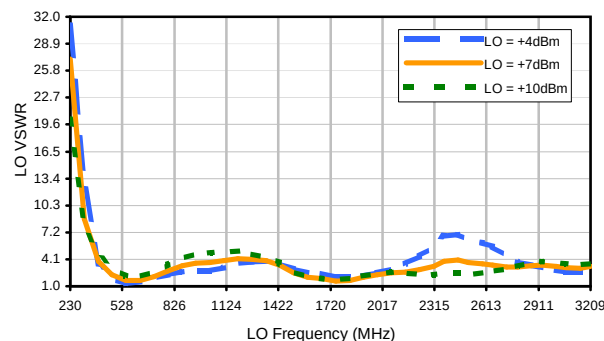
RF-IF Isolation



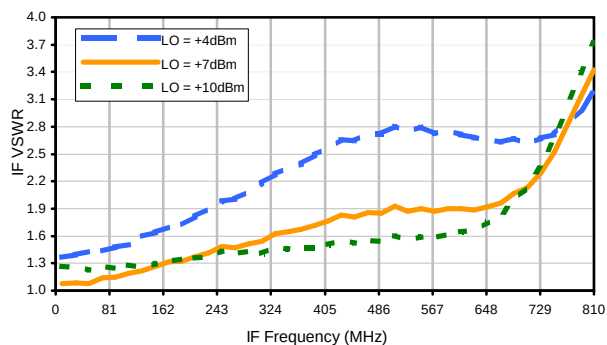
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	21	6	24	18	24	43	48	46	49
1	-	15	+0	21	28	25	43	44	34	46	39	50
2	82	55	69	53	59	61	46	61	55	58	64	62
3	>90	56	65	63	51	59	64	67	>70	69	58	68
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 1350 MHz; -14.00 dBm.

LO IN: 1380 MHz; +7.00 dBm

IF OUT: 30 MHz; -20.39 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	33	18	37	31	37	52	>80	53	66
1	-	14	+0	24	29	29	46	52	44	60	53	69
2	62	45	54	39	59	52	41	57	51	54	65	67
3	>90	38	45	47	30	42	49	48	60	62	50	61
4	>90	70	65	61	68	56	63	76	56	68	70	65
5	>90	67	64	56	67	67	46	58	59	62	64	70
6	>90	66	74	>80	>80	71	>80	>80	74	77	66	77
7	>90	74	67	>80	76	73	71	>80	60	>80	67	72
8	>90	>80	>80	72	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	71	>80
10	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1350 MHz; -4.00 dBm.

LO IN: 1380 MHz; +7.00 dBm

IF OUT: 30 MHz; -10.45 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.