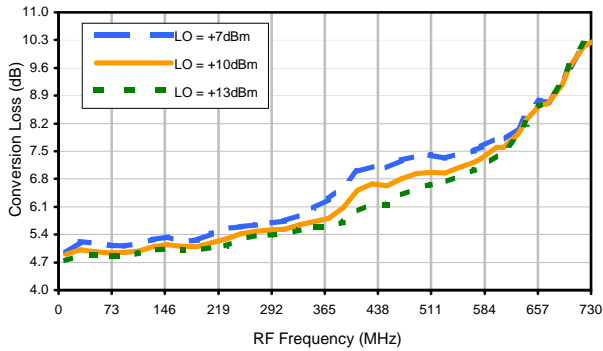


Frequency Mixer

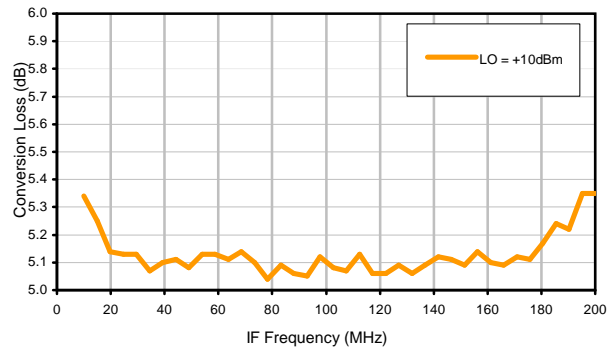
TUF-R3LHSM+

Typical Performance Curves

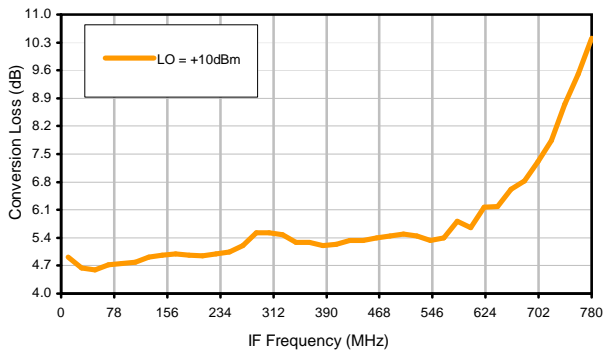
Conversion Loss @ IF=30MHz



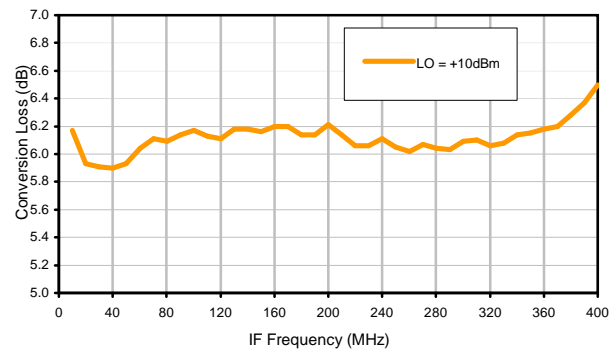
Conversion Loss vs. IF @ RF=210.1MHz



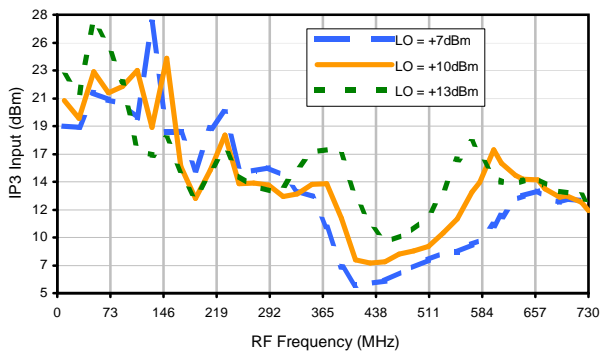
Conversion Loss vs. IF @ RF=10MHz



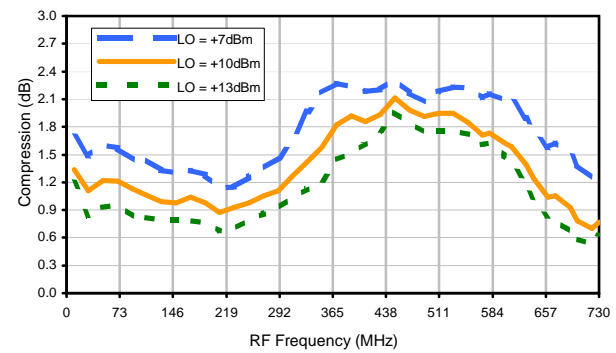
Conversion Loss vs. IF @ RF=410.1MHz



IP3 Input

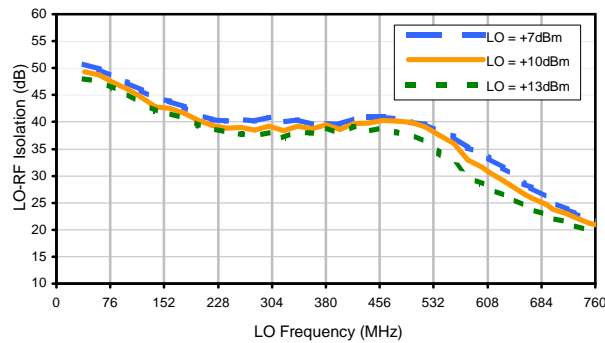


Compression @ RF IN=+5dBm

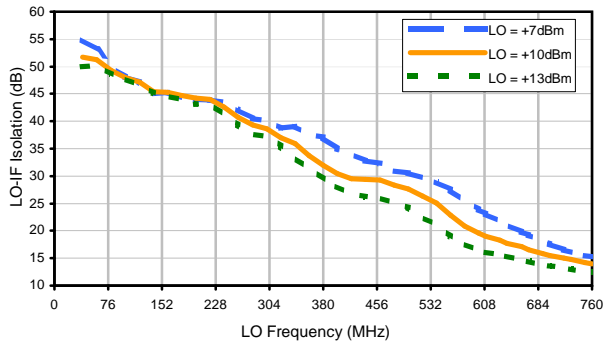


Typical Performance Curves

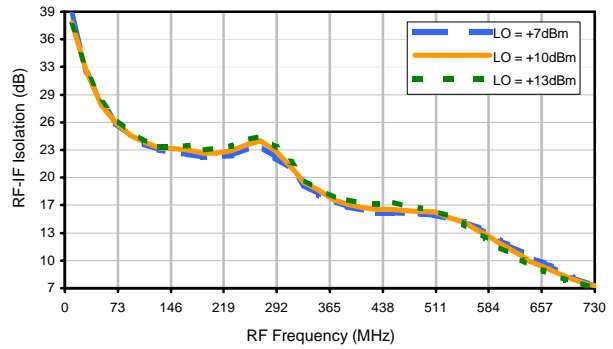
LO-RF Isolation



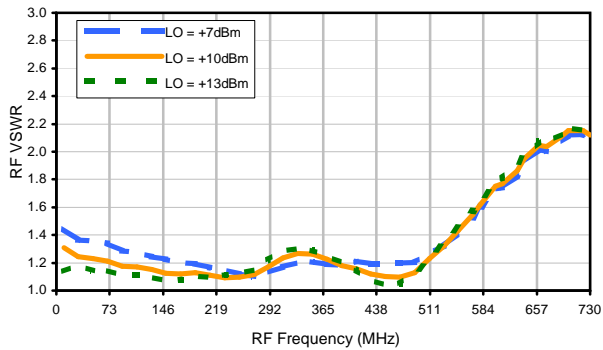
LO-IF Isolation



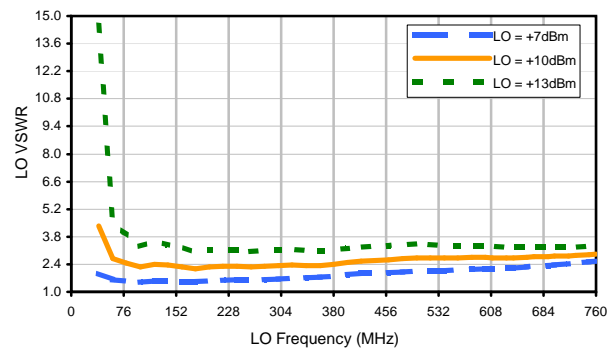
RF-IF Isolation



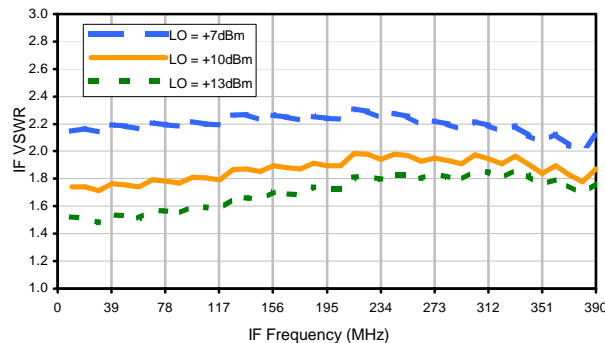
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	40	42	41	50	47	72	52	66	66	68
1	-	32	+0	42	34	65	47	66	68	74	80	79
2	85	77	61	61	67	79	74	93	96	>97	91	>97
3	>90	85	73	72	62	81	76	88	95	>97	95	>97
4	>90	>97	>97	>97	84	86	>97	>97	>97	>97	>97	>97
5	>90	>97	>97	>97	91	84	88	>97	>97	>97	>97	>97
6	>90	>97	>97	>97	>97	>97	86	>97	>97	>97	>97	>97
7	>90	>97	>97	>97	>97	>97	>97	77	95	>97	>97	>97
8	>90	>97	>97	>97	>97	>97	>97	92	71	>97	>97	>97
9	>90	>97	>97	>97	>97	>97	>97	>97	94	77	95	>97
10	>90	>97	>97	>97	>97	>97	>97	>97	>97	95	91	>97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 200 MHz; -10.00 dBm.
 LO IN: 230 MHz; +10.00 dBm
 IF OUT: 30 MHz; 6.87 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	48	52	53	62	58	80	66	82	75	84
1	-	33	+0	44	35	70	49	72	67	80	83	90
2	65	67	57	53	64	71	74	78	92	102	88	102
3	>90	70	55	57	46	64	58	74	72	79	86	88
4	>90	90	84	84	66	69	74	82	79	97	>107	>107
5	>90	101	82	87	72	69	62	80	75	84	87	96
6	>90	105	98	94	93	92	73	82	87	87	93	104
7	>90	>107	99	102	89	96	86	77	79	94	81	104
8	>90	>107	>107	>107	106	102	102	98	78	101	103	101
9	>90	>107	>107	>107	>107	>107	97	98	98	65	99	98
10	>90	>107	>107	>107	>107	>107	>107	101	>107	98	97	104
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 200 MHz; 0.00 dBm.
 LO IN: 230 MHz; +10.00 dBm
 IF OUT: 30 MHz; 16.95 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.