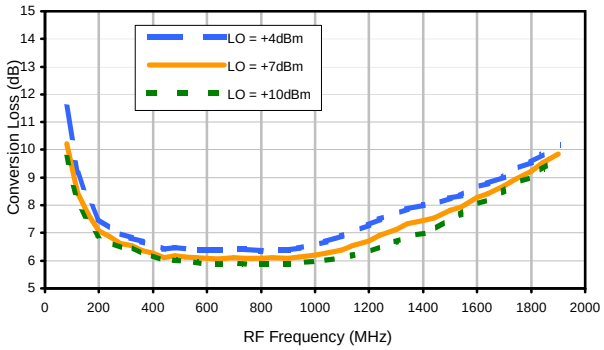
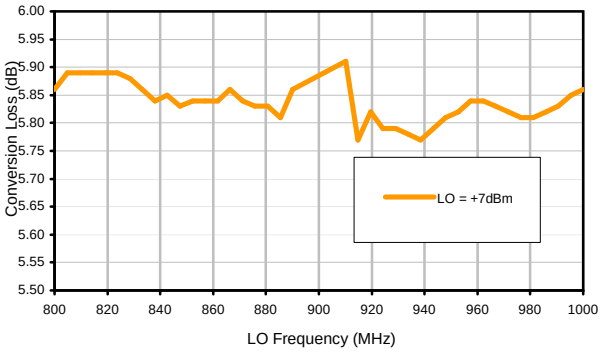
Frequency Mixer ADE-901+

Typical Performance Curves

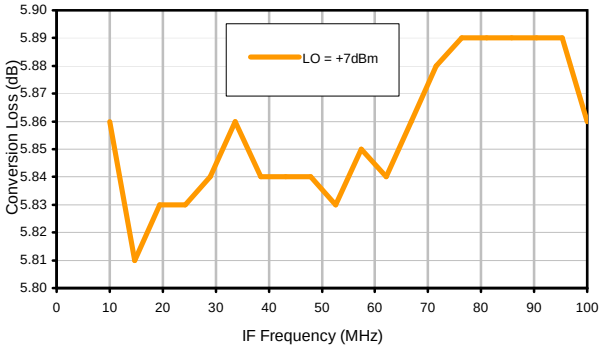
Conversion Loss @ IF=30MHz



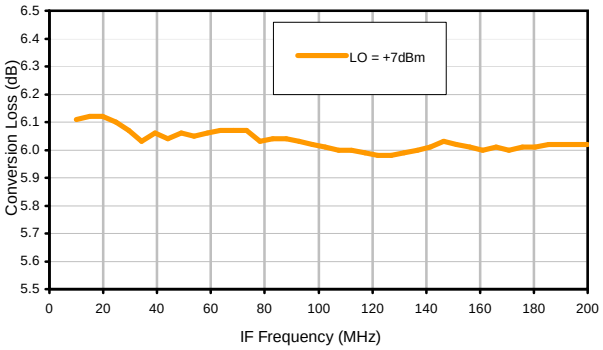
Conversion Loss vs. LO @ RF=900.1MHz



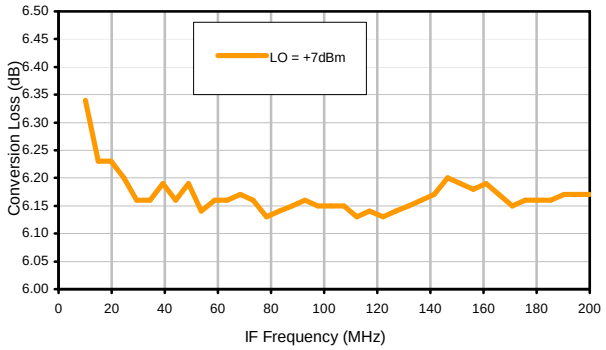
Conversion Loss vs. IF @ RF=900.1MHz



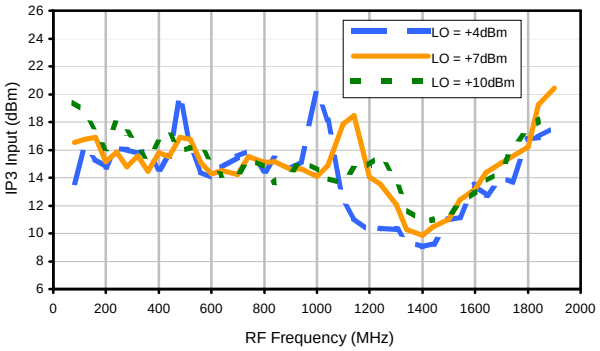
Conversion Loss vs. IF @ RF=800.1MHz



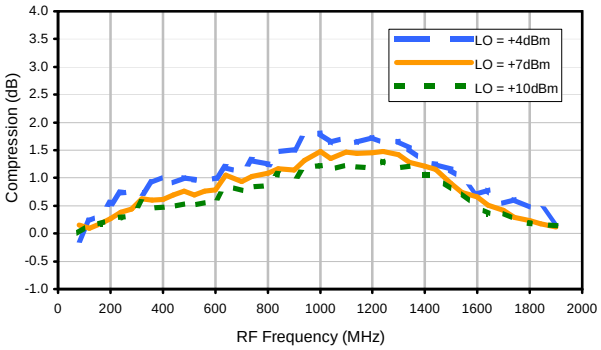
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

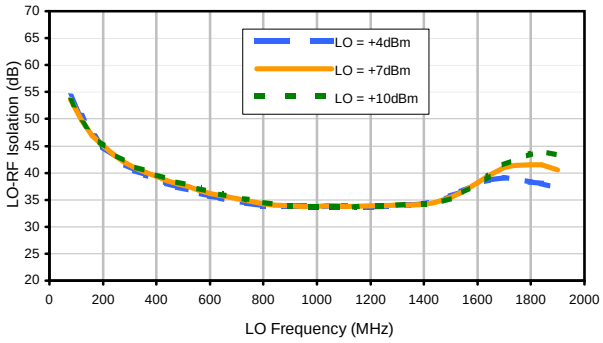


Compression @ RF IN=+1dBm

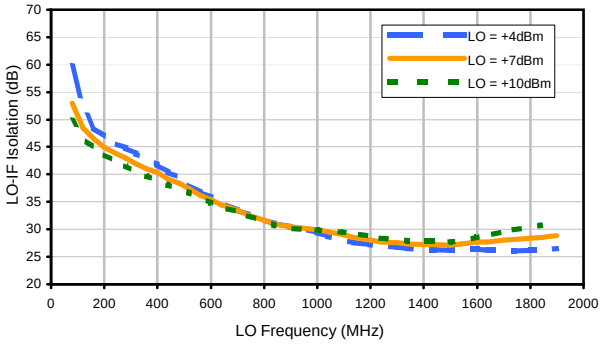


Typical Performance Curves

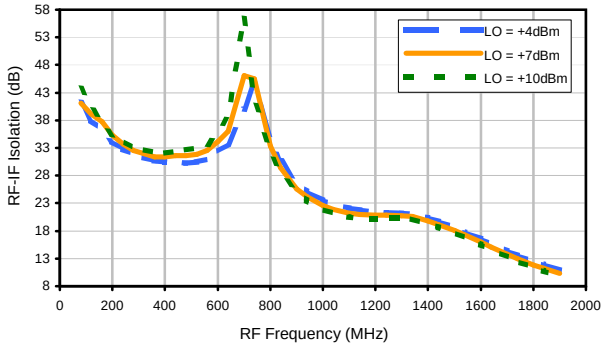
LO-RF Isolation



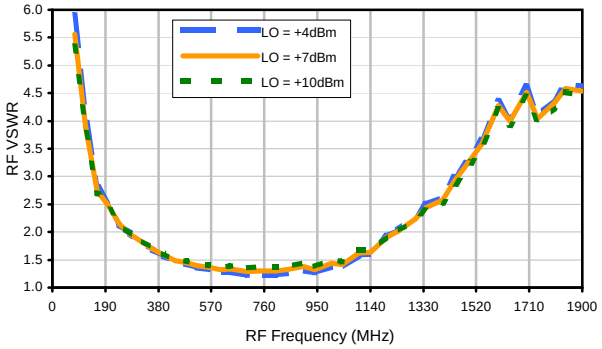
LO-IF Isolation



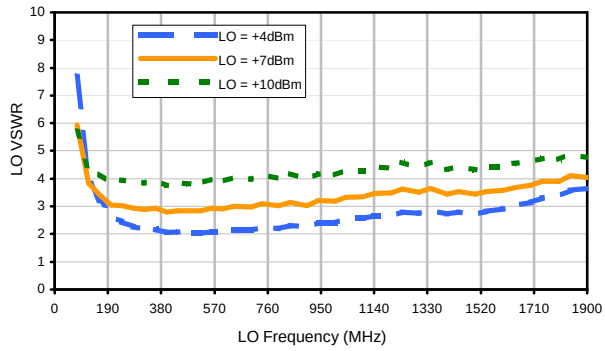
RF-IF Isolation



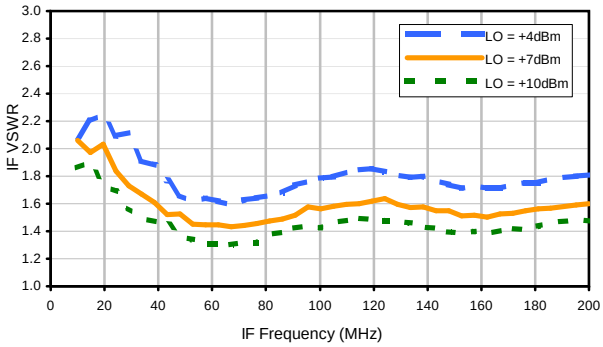
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	12	29	40	41	24	44	47	63	64	75
1	-	20	+0	26	11	35	34	40	48	53	69	60
2	90	50	37	55	36	54	45	61	44	65	61	85
3	129	43	59	51	48	45	41	54	62	51	75	64
4	112	89	86	69	58	69	57	67	58	73	63	73
5	113	65	70	69	63	64	58	62	58	67	69	71
6	115	86	88	96	83	85	73	71	74	74	75	85
7	109	91	86	88	87	77	77	79	78	83	76	82
8	95	93	100	101	97	102	94	102	88	88	86	82
9	122	122	114	112	107	96	99	94	93	88	88	88
10	109	110	119	111	105	105	108	110	105	97	105	92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 900.1 MHz; -4.00 dBm.**
LO IN: 930.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -10.08 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	3	18	28	31	12	33	33	53	50	54
1	-	20	+0	25	10	32	34	34	46	47	71	53
2	110	60	45	66	44	67	50	78	51	65	67	75
3	119	64	79	66	79	63	68	74	74	70	90	81
4	112	98	89	88	87	92	94	95	89	97	95	101
5	115	124	111	115	100	106	88	106	92	96	99	105
6	117	111	100	111	97	110	96	96	103	115	103	109
7	133	99	102	105	109	102	104	101	94	102	105	107
8	103	96	95	98	99	102	102	112	105	84	103	110
9	121	114	101	109	113	111	101	103	97	96	92	105
10	107	103	109	118	106	112	105	101	109	96	104	97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 900.1 MHz; -14.00 dBm.**
LO IN: 930.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -19.92 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.