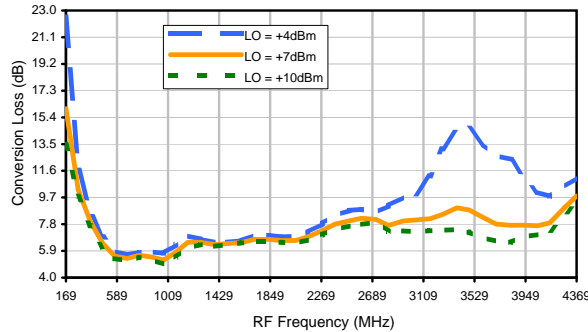


Frequency Mixer

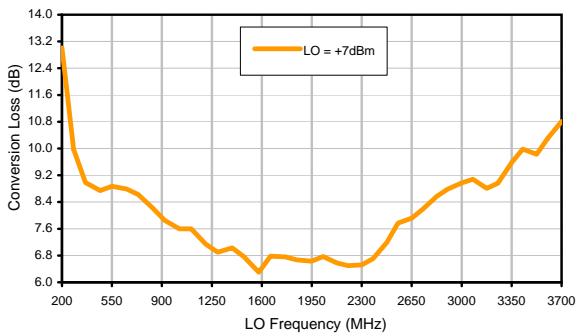
SRA-3500+

Typical Performance Curves

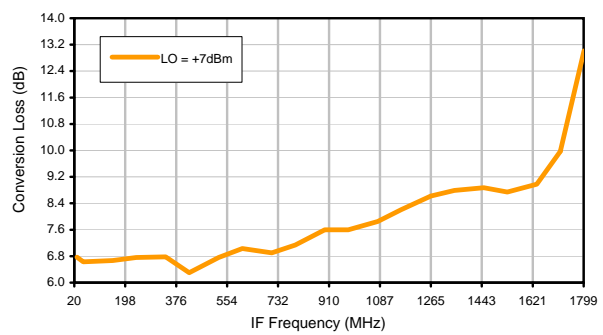
Conversion Loss @ IF=30MHz



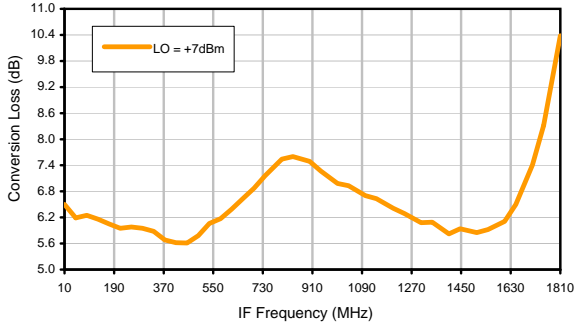
Conversion Loss vs. LO @ RF=2000MHz



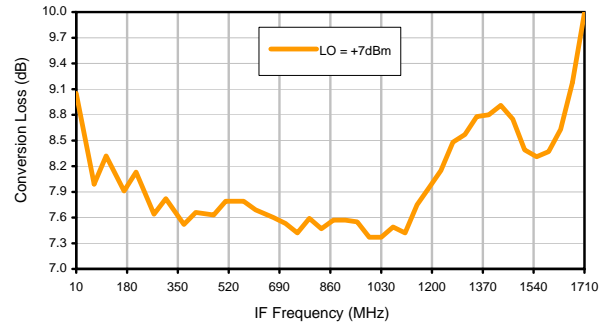
Conversion Loss vs. IF @ RF=2000MHz



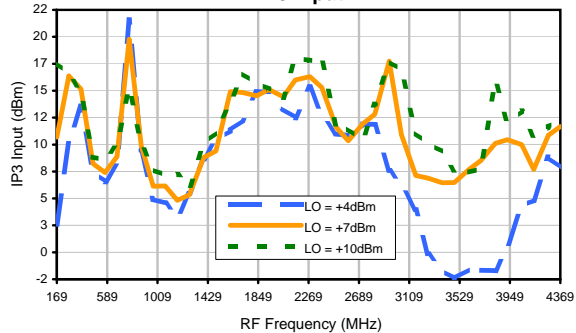
Conversion Loss vs. IF @ RF=490MHz



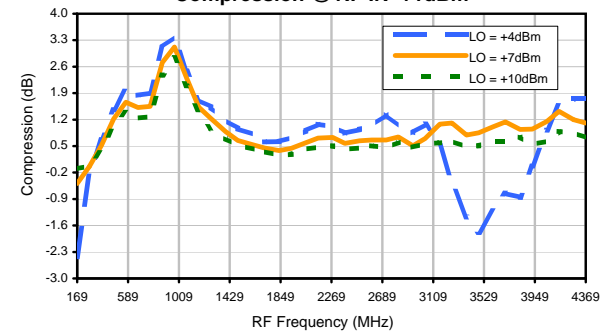
Conversion Loss vs. IF @ RF=3510.1MHz



IP3 Input



Compression @ RF IN=+1dBm

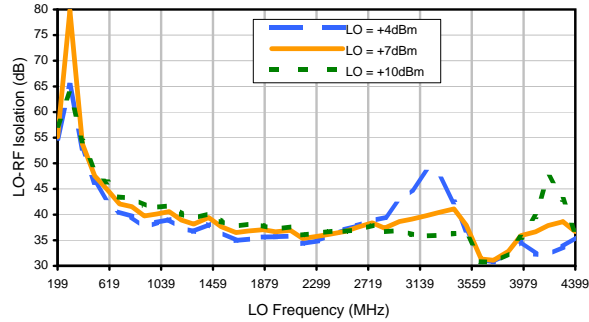


Frequency Mixer

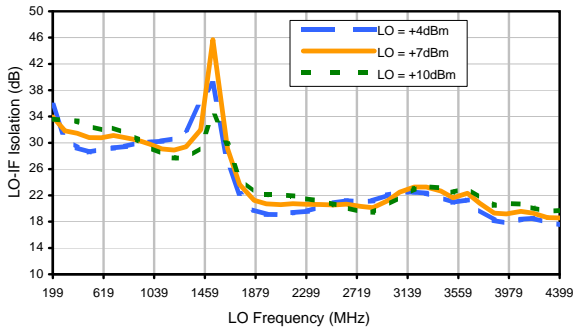
SRA-3500+

Typical Performance Curves

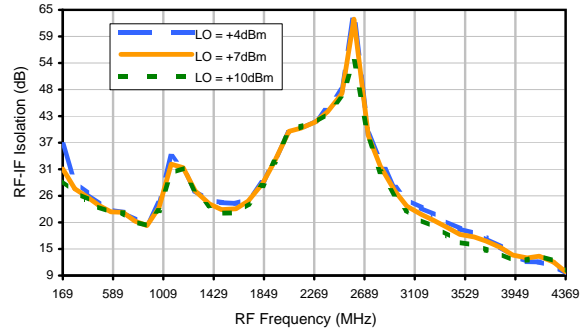
LO-RF Isolation



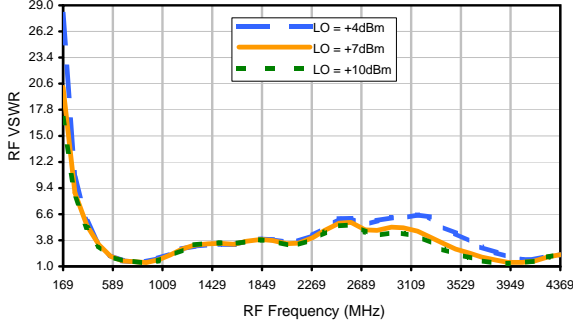
LO-IF Isolation



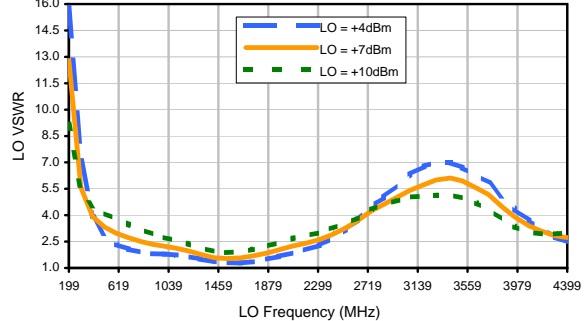
RF-IF Isolation



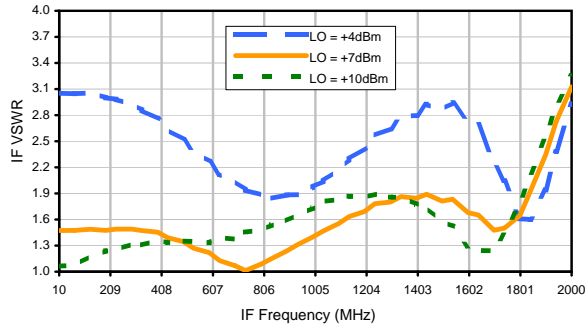
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

Harmonics Tables

SRA-3500+

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+8	20	6	28	22	50	34	40	63	>69
1	-	29	+0	45	16	39	38	47	49	53	42	>69
2	87	66	53	53	56	68	49	>69	54	>69	60	64
3	>90	>69	68	>69	65	>69	64	>69	>69	>69	>69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 2000 MHz; -14.00 dBm.
 LO IN: 2030 MHz; +7.00 dBm
 IF OUT: 30 MHz; -21 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	31	17	39	36	67	49	61	77	78
1	-	29	+0	45	16	41	40	48	54	59	49	>79
2	66	68	46	46	50	55	42	63	50	>79	58	67
3	>90	58	46	66	43	73	45	63	58	67	66	72
4	>90	76	65	69	62	69	68	72	62	73	67	>79
5	>90	>79	>79	>79	>79	>79	>79	>79	68	>79	72	>79
6	>90	>79	>79	>79	78	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2000 MHz; -4.00 dBm.
 LO IN: 2030 MHz; +7.00 dBm
 IF OUT: 30 MHz; -11.03 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.