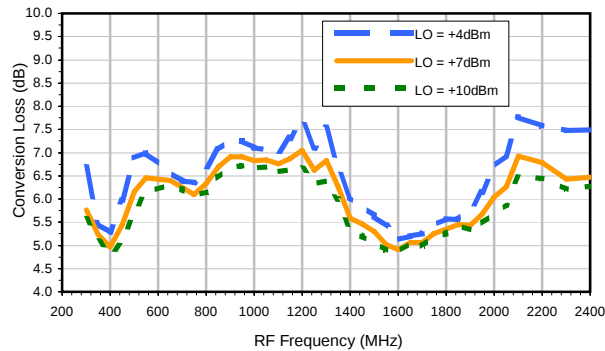


Frequency Mixer

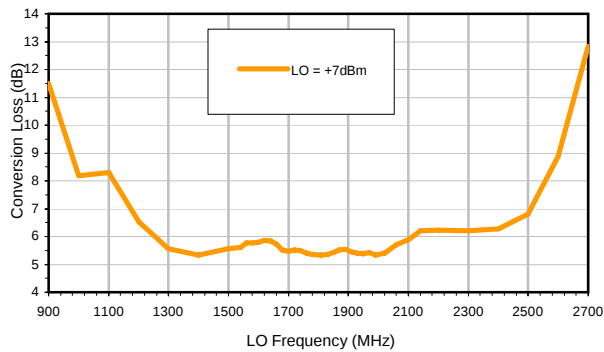
Typical Performance Curves

MAC-24+

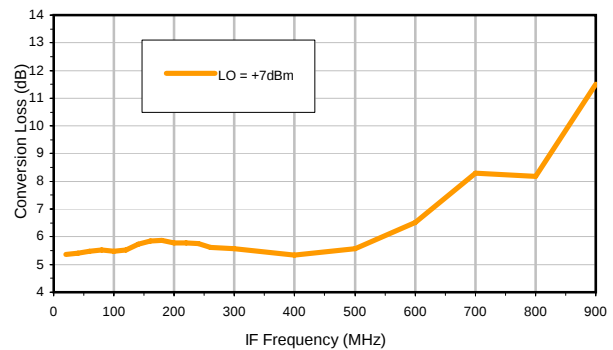
Conversion Loss @IF=30 MHz



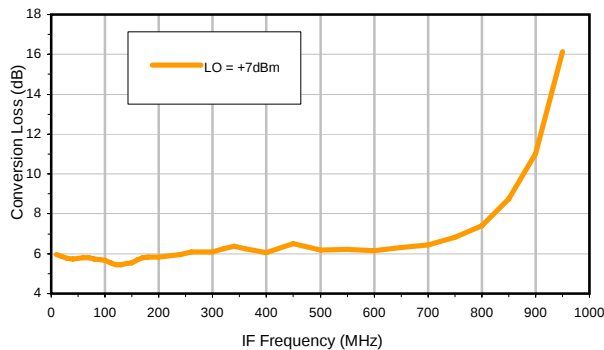
Conversion Loss vs. LO @ RF=1800.1 MHz



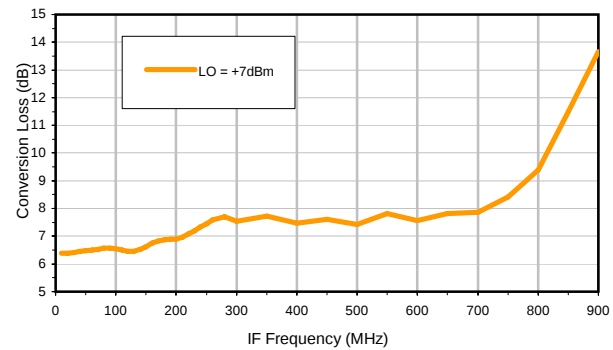
Conversion Loss vs. IF @ RF=1800.1 MHz



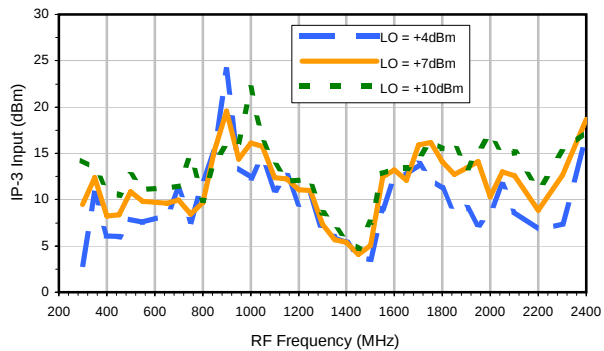
Conversion Loss vs. IF @ RF=300.1 MHz



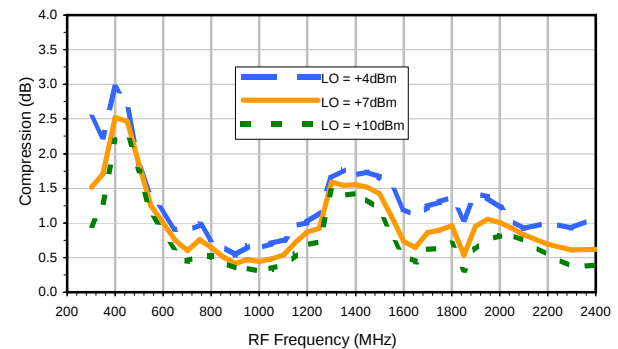
Conversion Loss vs. IF @ RF=2400.1 MHz



IP-3 Input



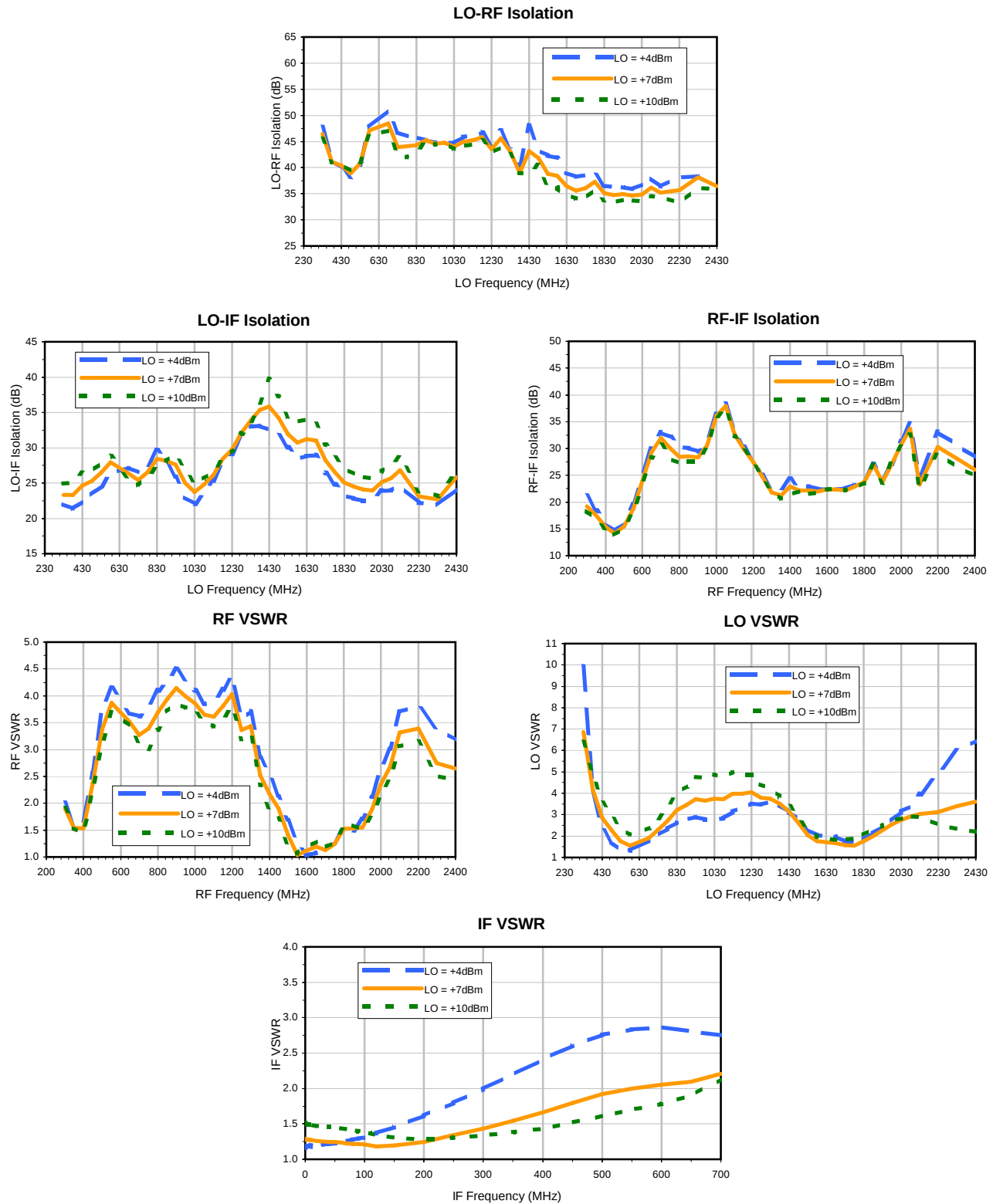
Compression @RF IN=+1 dBm



Frequency Mixer

Typical Performance Curves

MAC-24+



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	-0.99	18.30	13.98	25.72	21.05	32.80	18.37	34.32	29.79	50.18
1	---	18.30	---	33.81	15.97	44.25	30.72	47.59	32.96	47.68	45.91	47.06
2	127.72	81.58	60.43	68.81	63.77	75.65	63.00	66.93	59.25	66.89	50.97	65.67
3	129.95	76.47	63.40	78.01	65.69	77.53	65.08	85.33	88.46	80.11	74.14	92.44
4	133.13	104.15	103.57	109.30	97.11	111.01	97.03	109.48	104.10	111.17	95.28	100.50
5	131.17	106.36	107.67	109.94	108.60	114.57	106.66	116.47	109.66	110.84	105.27	107.64
6	132.86	109.77	107.68	115.17	105.80	110.05	108.62	108.37	112.17	109.78	106.26	112.32
7	135.53	108.40	105.50	106.19	110.02	115.86	109.85	111.16	106.35	108.86	108.46	110.03
8	128.11	107.94	106.81	109.64	106.56	108.88	109.53	109.47	108.44	106.18	113.17	108.37
9	126.40	104.86	106.40	109.85	109.80	107.32	106.33	110.54	106.73	106.34	109.49	104.33
10	128.99	107.36	107.07	104.16	109.82	106.11	108.92	112.82	107.26	106.77	108.79	104.69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1800.1 MHz; -14 dBm.

LO IN: 1830.1 MHz; +7.00 dBm

IF OUT: 30.00 MHz; -19.10 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	9.02	28.79	24.43	37.07	32.55	46.18	31.60	50.38	45.87	83.19
1	---	18.11	---	35.19	16.29	47.01	30.44	51.58	34.38	51.26	48.32	53.32
2	111.46	61.74	50.49	58.33	55.61	73.70	54.64	59.15	51.72	57.84	44.50	58.81
3	123.14	54.95	43.22	61.87	45.62	59.55	44.10	66.00	63.75	62.50	53.85	78.32
4	129.69	76.92	79.39	75.67	93.38	73.73	72.65	73.09	83.12	77.48	69.99	79.78
5	123.43	90.72	77.91	94.82	67.49	77.80	66.76	85.10	66.32	86.82	77.78	82.27
6	116.70	93.49	105.60	97.97	90.81	91.92	91.46	93.44	96.68	89.10	95.00	100.79
7	119.81	107.70	104.83	101.37	102.42	99.62	100.61	101.06	91.04	104.04	84.13	99.57
8	113.52	108.27	109.69	117.14	103.13	115.83	98.35	104.07	101.29	93.55	95.30	98.25
9	121.88	110.42	100.44	99.32	105.18	109.47	113.33	102.89	110.03	103.97	98.16	102.73
10	117.58	102.00	100.33	116.62	115.38	114.17	121.88	106.50	107.95	106.16	106.60	101.82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1800.1 MHz; -4 dBm.

LO IN: 1830.1 MHz; +7.00 dBm

IF OUT: 30.00 MHz; -9.17 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 represents the Harmonics level of the RF Input Signal to the mixer