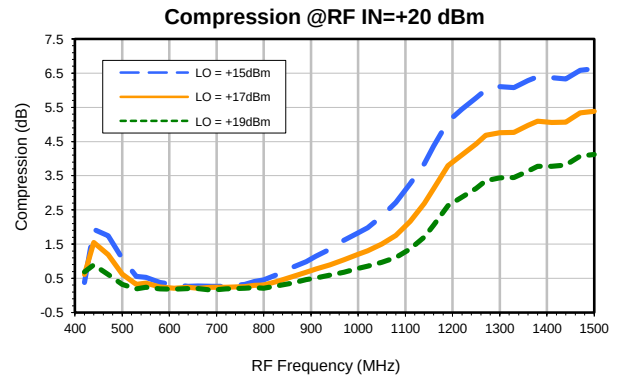
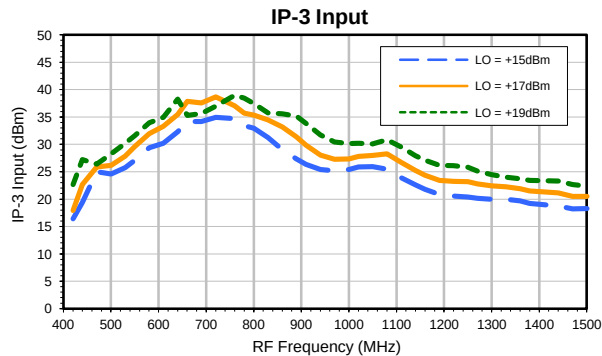
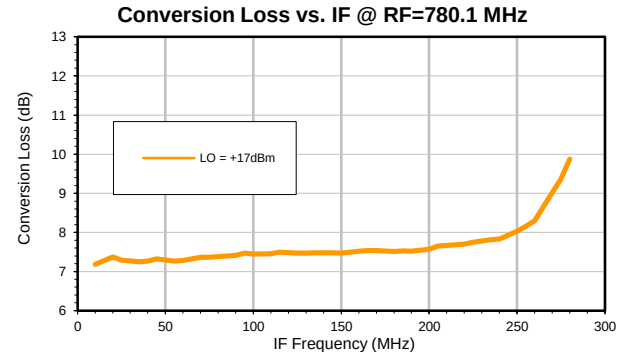
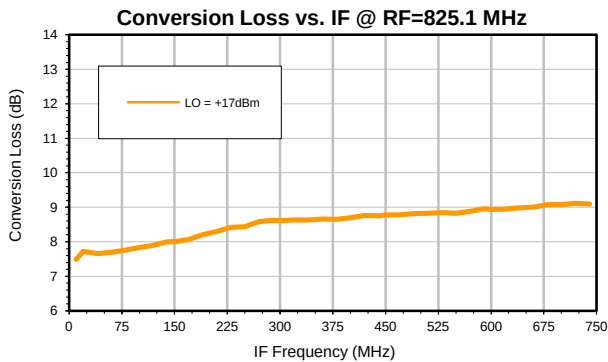
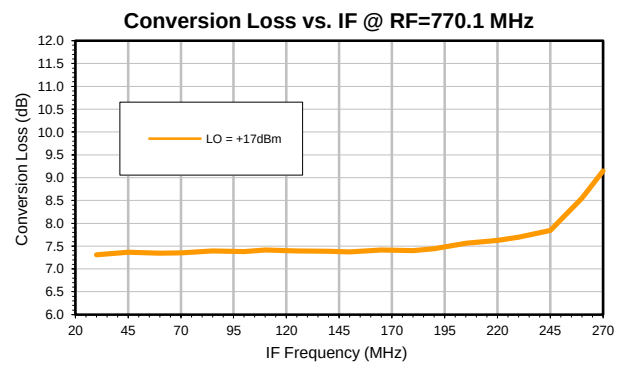
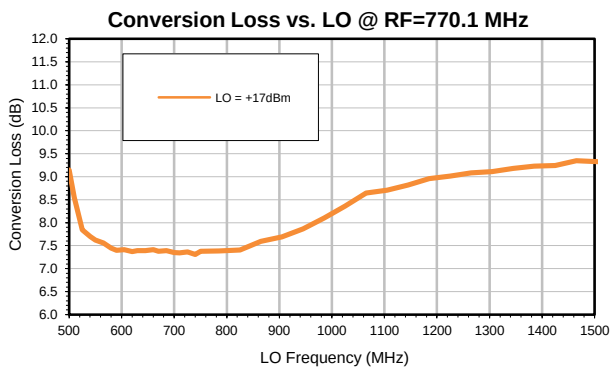
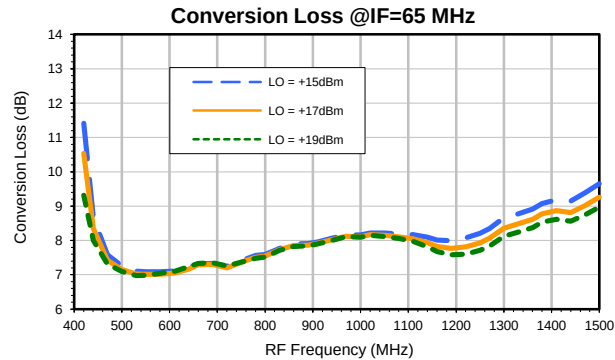


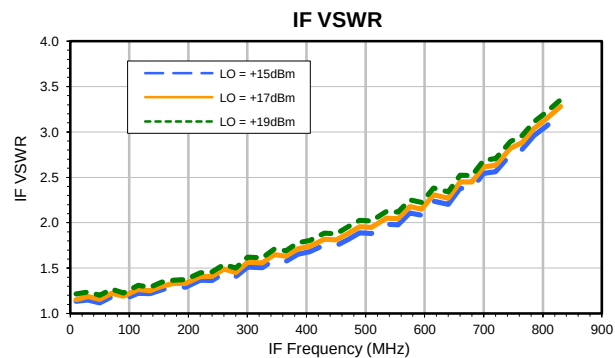
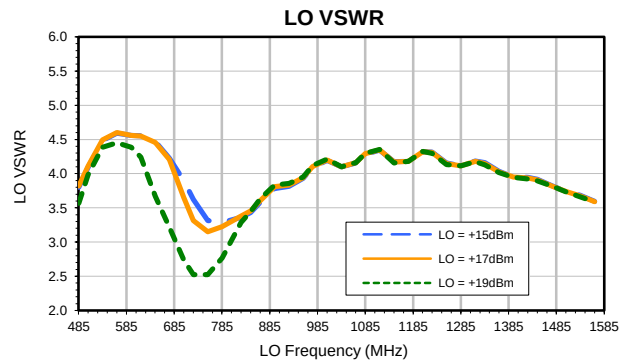
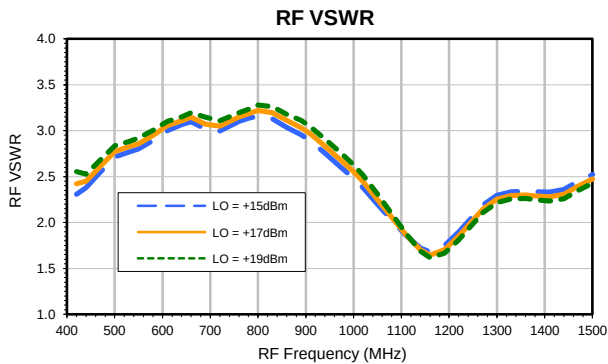
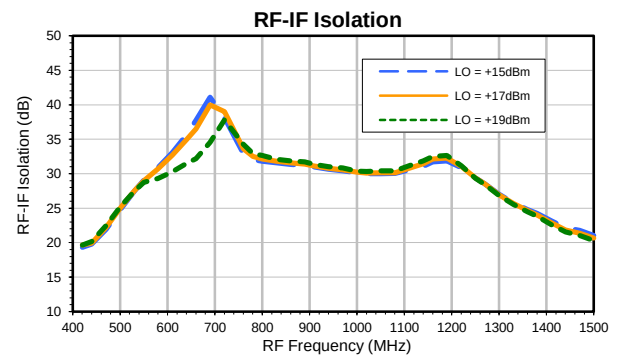
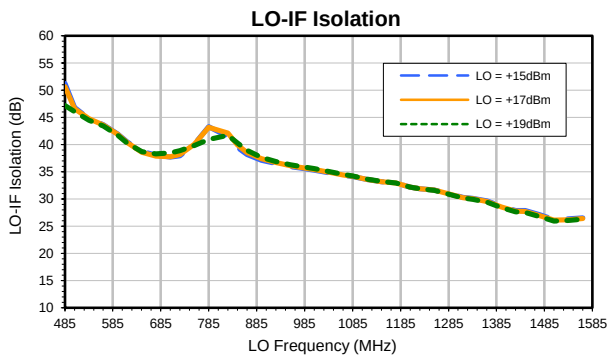
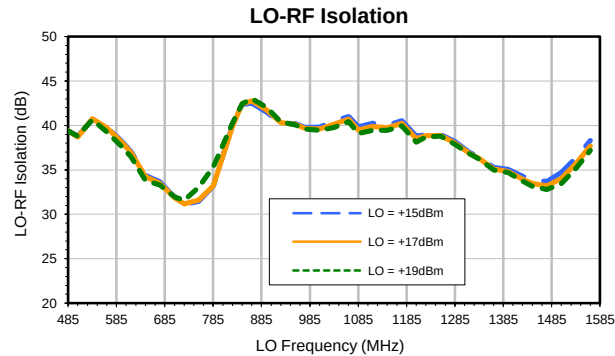
Frequency Mixer

Typical Performance Curves

ADE-851FH+



Typical Performance Curves



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	15.5	2.3	21.1	32.1	38.5	33.0	27.7	51.8	32.1	39.9
1	---	25.0	---	41.1	24.3	48.5	38.5	55.7	38.9	44.3	47.1	45.3
2	90.8	58.7	62.5	60.6	68.7	72.2	74.6	92.4	81.9	72.2	72.5	69.8
3	107.3	103.1	77.6	97.1	75.5	94.6	82.4	95.3	86.1	107.6	84.0	89.5
4	118.0	100.4	110.8	85.2	94.4	82.4	97.1	90.5	100.9	97.3	102.5	96.4
5	117.5	115.4	102.3	104.3	87.1	110.4	85.9	102.8	95.3	113.1	98.9	115.9
6	118.0	115.1	115.8	116.7	116.3	104.8	111.9	103.5	111.4	109.7	115.7	113.4
7	119.1	113.9	117.4	115.0	115.3	113.7	108.0	110.7	110.0	113.9	115.0	116.0
8	119.1	114.8	114.2	115.8	114.9	116.6	114.8	115.0	103.0	113.9	116.1	116.3
9	119.1	115.0	113.4	116.4	114.6	114.3	115.2	111.0	114.6	92.5	112.4	110.8
10	117.2	116.1	115.3	116.3	114.9	115.7	115.4	115.1	117.0	113.8	100.1	113.2
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 770 MHz; 0 dBm.
LO IN: 835 MHz; +17 dBm
IF OUT: 65 MHz; -7.70 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	25.7	12.3	31.3	42.0	47.3	44.7	38.4	54.0	43.5	49.7
1	---	25.1	---	41.4	24.5	48.1	39.1	56.0	39.4	44.5	48.0	46.1
2	74.7	49.0	52.9	53.7	58.7	70.6	64.1	76.5	70.0	68.8	66.5	64.7
3	69.4	76.3	58.6	74.3	53.1	73.4	62.2	80.6	67.6	89.8	66.3	75.4
4	115.7	90.5	89.1	86.0	85.3	78.0	81.8	84.9	94.1	96.7	92.0	83.5
5	100.8	108.4	93.4	101.5	81.8	101.8	81.1	97.7	91.5	101.7	94.5	105.5
6	116.2	98.3	110.1	102.4	105.9	92.2	106.0	91.1	102.2	100.6	107.9	107.3
7	114.0	98.8	94.4	107.3	94.6	101.5	84.6	94.9	85.9	95.6	92.8	107.9
8	115.5	107.8	116.9	105.3	114.2	105.6	114.1	97.7	99.2	97.9	107.8	106.3
9	116.2	102.4	104.1	103.7	100.0	110.6	97.6	107.6	90.2	96.5	90.3	102.4
10	116.0	120.0	122.4	113.8	113.7	109.7	118.0	107.8	121.5	100.4	97.9	101.7
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 770 MHz; 10 dBm.
LO IN: 835 MHz; +17 dBm
IF OUT: 65 MHz; 2.33 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