

Frequency Mixer

MCA1T-113H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
3800.0	3830.0	6.48	6.02	5.76	3800.0	3830.0	16.64	17.12	17.92	3800.0	3830.0	2.34	1.73	1.70
3900.0	3930.0	6.32	5.94	5.73	3900.0	3930.0	17.72	17.97	18.43	3900.0	3930.0	2.36	1.68	1.60
4000.0	4030.0	5.98	5.58	5.33	4000.0	4030.0	18.02	19.96	20.23	4000.0	4030.0	2.36	1.70	1.62
4100.0	4130.0	5.76	5.39	5.27	4100.0	4130.0	18.84	19.32	21.87	4100.0	4130.0	2.41	1.63	1.51
4200.0	4230.0	5.65	5.30	5.11	4200.0	4230.0	20.03	21.98	24.35	4200.0	4230.0	2.37	1.48	1.35
4300.0	4330.0	5.74	5.30	5.06	4300.0	4330.0	22.62	23.52	23.40	4300.0	4330.0	2.34	1.58	1.40
4400.0	4430.0	5.64	5.28	5.05	4400.0	4430.0	20.32	20.78	25.45	4400.0	4430.0	2.41	1.46	1.29
4500.0	4530.0	5.55	5.24	5.08	4500.0	4530.0	22.02	25.02	24.86	4500.0	4530.0	2.43	1.31	1.13
4600.0	4630.0	5.61	5.32	5.24	4600.0	4630.0	20.02	23.91	21.51	4600.0	4630.0	2.47	1.20	0.94
4700.0	4730.0	5.66	5.33	5.15	4700.0	4730.0	20.28	24.27	22.43	4700.0	4730.0	2.40	1.11	0.87
4800.0	4830.0	5.71	5.38	5.22	4800.0	4830.0	20.85	29.72	29.06	4800.0	4830.0	2.53	1.12	0.77
4900.0	4930.0	5.95	5.54	5.32	4900.0	4930.0	20.65	21.60	23.57	4900.0	4930.0	2.39	1.16	0.78
5000.0	5030.0	6.72	6.19	5.95	5000.0	5030.0	19.14	22.07	22.03	5000.0	5030.0	2.25	1.56	1.27
5100.0	5130.0	7.87	6.87	6.29	5100.0	5130.0	23.41	24.38	25.38	5100.0	5130.0	1.79	1.53	1.52
5200.0	5230.0	7.91	6.94	6.42	5200.0	5230.0	21.91	20.90	23.50	5200.0	5230.0	1.69	1.46	1.53
5300.0	5330.0	7.95	6.90	6.48	5300.0	5330.0	19.16	22.44	20.96	5300.0	5330.0	1.71	1.53	1.56
5400.0	5430.0	8.21	7.26	6.84	5400.0	5430.0	17.90	24.82	21.35	5400.0	5430.0	1.81	1.49	1.54
5500.0	5530.0	8.85	7.86	7.42	5500.0	5530.0	18.94	20.43	20.47	5500.0	5530.0	1.44	1.11	1.13
5700.0	5730.0	9.28	8.08	7.55	5700.0	5730.0	20.09	21.14	20.14	5700.0	5730.0	1.29	0.88	0.76
5800.0	5830.0	8.97	7.81	7.25	5800.0	5830.0	20.77	25.05	22.00	5800.0	5830.0	1.38	0.83	0.71
5900.0	5930.0	8.52	7.48	6.99	5900.0	5930.0	19.65	25.94	21.10	5900.0	5930.0	1.43	0.78	0.60
6000.0	6030.0	8.17	7.19	6.74	6000.0	6030.0	21.21	22.38	21.77	6000.0	6030.0	1.49	0.71	0.48
6100.0	6130.0	7.98	6.98	6.53	6100.0	6130.0	22.59	23.01	20.62	6100.0	6130.0	1.42	0.65	0.41
6200.0	6230.0	7.94	6.86	6.37	6200.0	6230.0	22.33	22.89	23.51	6200.0	6230.0	1.39	0.69	0.42
6300.0	6330.0	8.09	6.85	6.36	6300.0	6330.0	20.61	24.87	27.77	6300.0	6330.0	1.27	0.73	0.40
6400.0	6430.0	8.33	7.04	6.44	6400.0	6430.0	19.37	21.81	25.40	6400.0	6430.0	0.97	0.64	0.45
6500.0	6530.0	8.40	7.18	6.72	6500.0	6530.0	23.02	22.98	24.59	6500.0	6530.0	0.93	0.54	0.35
6530.0	6560.0	8.19	7.05	6.58	6530.0	6560.0	17.82	31.58	24.04	6530.0	6560.0	1.03	0.54	0.41
6827.0	6857.0	8.14	6.54	6.15	6827.0	6857.0	18.45	24.54	24.95	6827.0	6857.0	0.99	0.79	0.48
7124.0	7154.0	9.57	7.43	6.81	7124.0	7154.0	21.10	21.60	21.57	7124.0	7154.0	0.11	0.57	0.61
7421.0	7451.0	9.04	6.83	6.37	7421.0	7451.0	19.39	19.16	22.88	7421.0	7451.0	0.39	0.68	0.74
7718.0	7748.0	8.97	6.84	6.46	7718.0	7748.0	18.78	21.90	22.71	7718.0	7748.0	0.30	0.52	0.69
8015.0	8045.0	8.93	7.07	6.74	8015.0	8045.0	18.57	22.38	21.89	8015.0	8045.0	0.19	0.41	0.63
8312.0	8342.0	9.51	7.13	6.71	8312.0	8342.0	22.50	22.44	25.51	8312.0	8342.0	-0.17	0.38	0.58
8609.0	8639.0	11.11	7.39	6.88	8609.0	8639.0	18.92	25.98	19.68	8609.0	8639.0	-1.36	0.24	0.57
10394.0	10424.0	12.10	7.34	7.21	10394.0	10424.0	15.86	21.83	23.06	10394.0	10424.0	-2.31	0.46	0.68
10538.0	10568.0	11.60	7.63	7.53	10538.0	10568.0	18.25	22.97	21.84	10538.0	10568.0	-1.59	0.30	0.64
10682.0	10712.0	11.72	7.77	7.74	10682.0	10712.0	17.74	22.83	25.87	10682.0	10712.0	-1.55	0.37	0.48
10826.0	10856.0	12.94	7.94	7.83	10826.0	10856.0	16.07	28.11	26.71	10826.0	10856.0	-2.21	0.35	0.40
10970.0	11000.0	15.12	8.35	7.79	10970.0	11000.0	12.41	23.94	22.67	10970.0	11000.0	-3.61	0.24	0.24
11000.0	11030.0	15.17	8.60	7.87	11000.0	11030.0	13.69	31.33	23.34	11000.0	11030.0	-3.51	0.12	0.30



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IF/RF MICROWAVE COMPONENTS

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=7400MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3790MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=11010.09MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1787.1	5612.9	8.93	10.1	3800.1	5.43	1810.0	9200.1	12.15
1664.5	5735.5	8.27	70.1	3860.1	5.30	1730.0	9280.1	11.76
1542.0	5858.0	7.67	130.1	3920.1	5.27	1650.0	9360.1	11.24
1419.4	5980.6	7.28	190.1	3980.1	5.25	1570.0	9440.1	11.38
1296.9	6103.1	7.19	250.1	4040.1	5.29	1490.0	9520.1	11.50
1174.3	6225.7	7.08	310.1	4100.1	5.28	1410.0	9600.1	11.28
1051.8	6348.2	7.00	370.1	4160.1	5.26	1330.0	9680.1	10.95
929.2	6470.8	7.04	430.1	4220.1	5.25	1250.0	9760.1	10.92
806.6	6593.4	7.67	490.1	4280.1	5.16	1170.0	9840.1	10.75
684.1	6715.9	8.04	550.1	4340.1	5.26	1070.0	9940.1	10.68
561.5	6838.5	7.96	610.1	4400.1	5.33	1010.0	10000.1	10.57
439.0	6961.0	7.66	670.1	4460.1	5.35	970.0	10040.1	10.33
316.4	7083.6	7.49	730.1	4520.1	5.29	910.0	10100.1	10.19
193.8	7206.2	7.03	790.1	4580.1	5.20	870.0	10140.1	10.13
71.3	7328.7	7.03	850.1	4640.1	5.07	810.0	10200.1	9.99
49.1	7449.1	7.05	910.1	4700.1	4.90	770.0	10240.1	9.91
166.6	7566.6	7.02	970.1	4760.1	4.93	710.0	10300.1	9.61
284.0	7684.0	7.17	1030.1	4820.1	5.07	670.0	10340.1	9.64
401.5	7801.5	7.50	1090.1	4880.1	5.01	610.0	10400.1	9.36
518.9	7918.9	7.71	1150.1	4940.1	5.27	570.0	10440.1	9.32
636.4	8036.4	7.83	1210.1	5000.1	5.29	510.0	10500.1	9.15
753.8	8153.8	8.09	1270.1	5060.1	5.40	470.0	10540.1	8.85
871.2	8271.2	8.03	1330.1	5120.1	5.59	410.0	10600.1	8.76
988.7	8388.7	8.16	1390.1	5180.1	5.61	370.0	10640.1	8.65
1106.1	8506.1	8.15	1470.1	5260.1	5.97	310.0	10700.1	8.59
1223.6	8623.6	8.57	1530.1	5320.1	5.95	270.0	10740.1	8.50
1341.0	8741.0	8.63	1610.1	5400.1	6.23	210.0	10800.1	8.37
1458.4	8858.4	8.62	1670.1	5460.1	6.18	170.0	10840.1	8.38
1575.9	8975.9	8.59	1750.1	5540.1	6.22	110.0	10900.1	8.21
1693.3	9093.3	9.20	1810.1	5600.1	6.13	70.0	10940.1	8.28
1810.8	9210.8	9.22	1890.1	5680.1	6.33	10.0	11000.1	8.45

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+14	+17	+20	+14	+17	+20			+14	+17	+20
3830.0	30.94	29.37	27.55	14.00	12.51	11.19	3800.0	3830.0	25.73	23.84	22.75
3930.0	31.03	29.25	27.28	14.98	13.27	11.93	3900.0	3930.0	24.97	23.52	22.42
4030.0	32.41	30.22	28.03	15.14	13.41	12.15	4000.0	4030.0	23.48	22.31	21.52
4130.0	31.64	29.27	26.95	15.01	13.36	12.25	4100.0	4130.0	23.37	22.39	21.70
4230.0	30.96	28.87	27.14	14.21	12.84	11.87	4200.0	4230.0	22.72	21.58	20.69
4330.0	34.04	31.09	27.46	14.02	12.83	11.97	4300.0	4330.0	22.61	21.55	20.89
4430.0	32.13	30.09	26.42	13.94	12.87	12.02	4400.0	4430.0	20.61	19.74	19.38
4530.0	28.50	27.75	25.99	13.79	12.99	12.32	4500.0	4530.0	19.52	18.58	17.95
4630.0	27.03	26.58	25.56	13.60	13.12	12.60	4600.0	4630.0	17.86	16.74	15.84
4730.0	25.61	24.52	23.17	12.91	12.77	12.49	4700.0	4730.0	16.52	15.61	15.15
4830.0	25.26	24.29	22.83	12.30	12.36	12.31	4800.0	4830.0	15.33	14.48	14.06
4930.0	25.25	25.25	23.51	11.67	11.87	12.00	4900.0	4930.0	14.82	14.05	14.00
5030.0	23.93	25.35	25.79	11.27	11.60	11.75	5000.0	5030.0	15.61	14.83	14.41
5130.0	21.36	23.01	23.69	10.75	11.30	11.63	5100.0	5130.0	15.43	14.78	14.02
5230.0	19.63	21.26	22.00	10.29	11.03	11.60	5200.0	5230.0	12.45	12.09	11.65
5330.0	18.21	19.78	20.64	9.90	10.73	11.47	5300.0	5330.0	10.39	10.24	10.01
5430.0	16.85	18.22	19.22	9.45	10.47	11.44	5400.0	5430.0	8.69	8.76	8.66
5530.0	16.04	17.52	18.91	9.43	10.68	11.83	5500.0	5530.0	7.42	7.75	7.85
5730.0	16.28	18.43	20.55	11.26	13.05	14.53	5700.0	5730.0	7.09	7.79	8.38
5830.0	17.25	19.64	21.94	13.05	15.00	16.62	5800.0	5830.0	7.77	8.58	9.24
5930.0	18.96	21.46	23.78	15.09	17.11	18.85	5900.0	5930.0	8.82	9.63	10.34
6030.0	20.14	22.63	24.99	17.15	19.10	20.90	6000.0	6030.0	9.98	10.79	11.58
6130.0	21.54	23.86	25.90	19.04	20.90	22.67	6100.0	6130.0	11.19	11.95	12.78
6230.0	22.90	25.31	27.39	21.30	23.08	24.82	6200.0	6230.0	12.26	12.93	13.69
6330.0	24.11	26.70	28.99	23.49	25.17	26.86	6300.0	6330.0	13.24	13.92	14.60
6430.0	25.56	28.28	30.80	25.89	27.38	28.91	6400.0	6430.0	14.10	14.82	15.44
6530.0	26.85	29.58	32.15	28.36	29.51	30.64	6500.0	6530.0	14.90	15.50	15.98
6560.0	27.36	30.16	32.69	28.74	29.80	30.81	6530.0	6560.0	15.06	15.65	16.08
6857.0	31.52	34.24	35.69	37.03	34.49	32.76	6827.0	6857.0	17.50	18.24	18.67
7154.0	35.42	36.36	37.22	37.09	34.26	32.24	7124.0	7154.0	18.95	19.40	19.64
7451.0	42.91	42.29	42.37	34.37	33.34	32.01	7421.0	7451.0	22.68	23.25	23.47
7748.0	54.88	57.15	48.60	33.79	33.67	33.03	7718.0	7748.0	28.75	27.86	27.37
8045.0	38.85	44.15	43.19	35.11	35.76	35.97	8015.0	8045.0	31.05	28.57	27.46
8342.0	34.32	38.73	43.04	40.54	41.01	41.16	8312.0	8342.0	28.24	27.41	26.62
8639.0	29.83	32.87	34.88	38.80	39.74	39.99	8609.0	8639.0	24.88	25.39	25.29
10424.0	25.31	25.51	25.98	19.90	21.18	22.11	10394.0	10424.0	20.57	21.16	21.85
10568.0	25.49	25.90	26.19	20.09	21.31	22.25	10538.0	10568.0	20.64	20.97	21.54
10712.0	25.60	26.38	26.72	20.98	22.20	23.20	10682.0	10712.0	20.73	20.82	21.18
10856.0	24.96	26.16	26.99	21.25	22.47	23.74	10826.0	10856.0	21.44	21.21	21.49
11000.0	25.31	26.47	27.20	20.92	22.13	23.67	10970.0	11000.0	20.57	20.07	20.21
11030.0	25.16	26.28	26.74	21.09	22.34	23.97	11000.0	11030.0	20.60	20.14	20.32



Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=11000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
3800.0	3830.0	2.31	1.96	1.72	3830.0	2.38	2.88	3.56	10.0	3.95	1.56	1.12
3900.0	3930.0	2.21	1.89	1.66	3930.0	2.36	2.94	3.67	34.0	4.25	1.51	1.05
4000.0	4030.0	2.05	1.75	1.55	4030.0	2.33	2.98	3.80	58.0	4.23	1.49	1.06
4100.0	4130.0	1.93	1.65	1.47	4130.0	2.23	2.95	3.83	82.0	4.39	1.52	1.12
4200.0	4230.0	1.85	1.59	1.39	4230.0	2.12	2.87	3.73	106.0	4.49	1.53	1.11
4300.0	4330.0	1.88	1.63	1.41	4330.0	2.05	2.77	3.62	130.0	4.47	1.54	1.13
4400.0	4430.0	1.68	1.45	1.30	4430.0	2.03	2.77	3.67	185.0	4.40	1.54	1.17
4500.0	4530.0	1.54	1.34	1.20	4530.0	2.08	2.83	3.71	211.0	4.39	1.56	1.20
4600.0	4630.0	1.49	1.26	1.10	4630.0	2.16	2.90	3.80	237.0	4.44	1.61	1.24
4700.0	4730.0	1.40	1.19	1.04	4730.0	2.17	2.85	3.73	263.0	4.43	1.60	1.27
4800.0	4830.0	1.30	1.10	1.06	4830.0	2.20	2.77	3.55	276.0	4.40	1.59	1.25
4900.0	4930.0	1.30	1.15	1.14	4930.0	2.33	2.82	3.54	289.0	4.44	1.62	1.27
5000.0	5030.0	1.63	1.47	1.37	5030.0	2.40	2.79	3.43	302.0	4.45	1.63	1.28
5100.0	5130.0	1.98	1.72	1.50	5130.0	2.42	2.74	3.34	315.0	4.47	1.66	1.30
5200.0	5230.0	1.95	1.68	1.51	5230.0	2.47	2.70	3.26	328.0	4.49	1.67	1.32
5300.0	5330.0	1.87	1.62	1.49	5330.0	2.48	2.60	3.07	341.0	4.61	1.70	1.35
5400.0	5430.0	1.76	1.57	1.44	5430.0	2.57	2.65	3.14	354.0	4.56	1.71	1.36
5500.0	5530.0	1.59	1.48	1.41	5530.0	2.68	2.72	3.16	367.0	4.52	1.70	1.37
5700.0	5730.0	1.63	1.54	1.49	5730.0	3.23	3.12	3.49	393.0	4.50	1.70	1.36
5800.0	5830.0	1.73	1.61	1.53	5830.0	3.55	3.28	3.55	406.0	4.57	1.73	1.38
5900.0	5930.0	1.93	1.75	1.63	5930.0	3.82	3.39	3.59	432.0	4.73	1.80	1.42
6000.0	6030.0	2.09	1.83	1.66	6030.0	4.13	3.51	3.61	458.0	4.68	1.81	1.46
6100.0	6130.0	2.21	1.94	1.71	6130.0	4.32	3.55	3.59	484.0	4.62	1.78	1.43
6200.0	6230.0	2.34	2.04	1.80	6230.0	4.40	3.48	3.46	510.0	4.86	1.88	1.49
6300.0	6330.0	2.43	2.08	1.83	6330.0	4.38	3.37	3.32	566.0	4.78	1.88	1.53
6400.0	6430.0	2.54	2.12	1.85	6430.0	4.39	3.31	3.24	638.0	4.97	1.99	1.59
6500.0	6530.0	2.63	2.23	1.97	6530.0	4.29	3.16	3.05	710.0	5.08	2.05	1.62
6530.0	6560.0	3.91	3.16	2.79	6560.0	4.78	3.46	3.34	782.0	5.18	2.10	1.64
6827.0	6857.0	2.04	1.61	1.43	6857.0	5.80	3.84	3.51	854.0	5.10	2.13	1.67
7124.0	7154.0	2.89	2.34	2.13	7154.0	7.21	4.26	3.58	926.0	5.38	2.24	1.74
7421.0	7451.0	2.47	1.94	1.76	7451.0	7.80	4.29	3.32	998.0	5.48	2.34	1.82
7718.0	7748.0	2.63	2.13	1.97	7748.0	6.65	3.65	2.71	1070.0	6.50	2.70	2.08
8015.0	8045.0	3.02	2.45	2.27	8045.0	5.46	3.11	2.30	1106.0	5.75	2.50	1.94
8312.0	8342.0	4.93	3.73	3.32	8342.0	5.01	3.08	2.39	1178.0	6.68	2.79	2.12
8609.0	8639.0	5.84	3.88	3.31	8639.0	5.12	3.21	2.41	1250.0	5.47	2.42	1.87
10394.0	10424.0	2.00	1.77	1.99	10424.0	3.80	2.55	1.72	1260.0	6.47	2.80	2.15
10538.0	10568.0	2.55	2.09	2.15	10568.0	4.17	2.66	1.77	1368.0	6.19	2.76	2.14
10682.0	10712.0	2.97	2.32	2.25	10712.0	3.56	2.34	1.65	1476.0	4.68	2.38	1.89
10826.0	10856.0	3.85	2.82	2.66	10856.0	3.60	2.38	1.62	1584.0	3.92	2.09	1.69
10970.0	11000.0	6.00	4.32	4.30	11000.0	4.04	2.67	1.79	1692.0	3.82	2.06	1.69
11000.0	11030.0	2.93	2.22	2.00	11030.0	4.19	2.75	1.85	1800.0	3.71	2.06	1.72



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBC)										
	RF CAL	0	1	2	3	4	5	6	7	8	9	10
0	-	-	7	41	22	---	---	---	---	---	---	---
1	-	13	+0	31	37	44	---	---	---	---	---	---
2	55	52	59	55	66	56	66	---	---	---	---	---
3	70	68	79	>82	56	>82	75	>82	---	---	---	---
4	---	---	>82	>82	>82	>82	>82	>82	>82	---	---	---
5	---	---	---	>82	>82	>82	>82	>82	>82	>82	---	---
6	---	---	---	---	>82	>82	>82	>82	>82	>82	>82	---
7	---	---	---	---	---	>82	>82	>82	>82	>82	>82	>82
8	---	---	---	---	---	---	>82	>82	>82	>82	>82	>82
9	---	---	---	---	---	---	---	>82	>82	>82	>82	>82
10	---	---	---	---	---	---	---	---	>82	>82	>82	>82

LO HARMONICS ORDER

Test conditions: RF IN: 7400 MHz; -1.00 dBm.
 LO IN: 7430 MHz; +17.00 dBm
 IF OUT: 30 MHz; -8.27 dBm

RF HARMONICS ORDER	(-dBm)	(-dBC)										
	RF CAL	0	1	2	3	4	5	6	7	8	9	10
0	-	-	17	46	33	---	---	---	---	---	---	---
1	-	14	+0	32	37	45	---	---	---	---	---	---
2	35	40	49	44	57	50	66	---	---	---	---	---
3	50	48	57	60	36	60	58	74	---	---	---	---
4	---	---	72	66	73	60	80	64	77	---	---	---
5	---	---	---	75	78	79	55	75	77	87	---	---
6	---	---	---	---	>92	85	89	75	87	77	86	---
7	---	---	---	---	---	>92	>92	>92	68	>92	86	>92
8	---	---	---	---	---	---	>92	>92	>92	84	>92	87
9	---	---	---	---	---	---	---	>92	>92	>92	81	>92
10	---	---	---	---	---	---	---	---	>92	>92	>92	>92

LO HARMONICS ORDER

Test conditions: RF IN: 7400 MHz; 9.00 dBm.
 LO IN: 7430 MHz; +17.00 dBm
 IF OUT: 30 MHz; 1.81 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.

