Frequency Mixer ZMX-7GHR

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+14	+17	+20
1700.1	1730.1	13.28	9.94	10.87
1910.1	1940.1	10.07	8.79	8.16
2120.1	2150.1	8.57	7.63	7.37
2330.1	2360.1	7.89	6.89	6.72
2540.1	2570.1	7.12	6.23	6.06
2750.1	2780.1	6.68	5.57	5.38
2960.1	2990.1	6.13	5.07	4.86
3170.1	3200.1	5.63	4.75	4.53
3380.1	3410.1	5.44	4.60	4.36
3590.1	3620.1	5.22	4.48	4.26
3800.1	3830.1	5.04	4.43	4.28
4010.1	4040.1	5.10	4.49	4.39
4220.1	4250.1	5.41	4.69	4.60
4430.1	4460.1	5.51	4.86	4.81
4640.1	4670.1	5.77	5.09	5.04
4850.1	4880.1	5.87	5.28	5.27
5060.1	5090.1	6.11	5.48	5.43
5270.1	5300.1	6.17	5.62	5.58
5480.1	5510.1	6.18	5.73	5.71
5690.1	5720.1	6.23	5.80	5.79
5900.1	5930.1	6.72	6.06	5.92
6131.1	6161.1	7.12	6.50	6.26
6341.1	6371.1	7.22	6.65	6.45
6572.1	6602.1	7.16	6.67	6.52
6782.1	6812.1	6.92	6.52	6.44
7013.1	7043.1	6.63	6.28	6.20
7223.1	7253.1	6.39	6.07	6.01
7454.1	7484.1	6.35	6.07	5.96
7664.1	7694.1	6.21	5.92	5.82
7895.1	7925.1	5.90	5.64	5.58
8105.1	8135.1	5.72	5.47	5.41
8336.1	8366.1	5.53	5.31	5.28
8546.1	8576.1	5.62	5.39	5.36
8777.1	8807.1	5.88	5.67	5.66
8987.1	9017.1	6.39	6.27	6.28
9218.1	9248.1	7.09	6.94	6.99
9428.1	9458.1	7.60	7.51	7.60
9659.1	9689.1	8.72	8.69	8.81
9869.1	9899.1	9.88	9.85	9.98
10100.1	10130.1	10.90	10.79	10.95

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
1700.1	1730.1	20.86	29.36	23.94
1910.1	1940.1	20.42	24.10	24.84
2120.1	2150.1	20.17	23.34	24.44
2330.1	2360.1	19.10	22.70	23.79
2540.1	2570.1	17.56	19.62	22.92
2750.1	2780.1	20.33	19.45	20.89
2960.1	2990.1	21.11	19.30	20.30
3170.1	3200.1	18.10	18.41	20.40
3380.1	3410.1	16.73	18.55	20.81
3590.1	3620.1	16.83	18.97	20.72
3800.1	3830.1	16.66	19.15	21.16
4010.1	4040.1	18.02	21.38	23.74
4220.1	4250.1	19.42	21.88	23.95
4430.1	4460.1	24.50	23.56	26.96
4640.1	4670.1	24.66	23.96	27.58
4850.1	4880.1	23.90	24.75	27.12
5060.1	5090.1	25.18	25.13	26.47
5270.1	5300.1	24.91	26.00	25.78
5480.1	5510.1	24.74	27.79	25.49
5690.1	5720.1	23.12	27.86	25.55
5900.1	5930.1	23.48	27.60	24.96
6131.1	6161.1	28.74	28.07	24.73
6341.1	6371.1	36.02	29.79	30.04
6572.1	6602.1	28.33	28.17	30.44
6782.1	6812.1	26.54	27.35	29.35
7013.1	7043.1	26.43	27.77	29.72
7223.1	7253.1	26.18	27.80	29.63
7454.1	7484.1	26.69	28.94	30.35
7664.1	7694.1	25.08	27.91	28.10
7895.1	7925.1	23.13	24.99	24.56
8105.1	8135.1	22.13	23.62	24.06
8336.1	8366.1	20.63	22.46	22.84
8546.1	8576.1	19.84	21.96	22.98
8777.1	8807.1	20.23	22.52	23.58
8987.1	9017.1	20.46	22.64	24.09
9218.1	9248.1	22.09	24.29	25.47
9428.1	9458.1	23.70	26.00	27.30
9659.1	9689.1	25.46	27.36	28.25
9869.1	9899.1	27.54	28.47	31.07
10100.1	10130.1	27.27	29.18	31.21

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB) @LO (dBm)		
		+14	+17	+20
1700.1	1730.1	-0.32	0.26	-0.13
1910.1	1940.1	1.08	0.67	0.48
2120.1	2150.1	1.33	0.96	0.60
2330.1	2360.1	1.53	1.28	0.99
2540.1	2570.1	1.74	1.66	1.39
2750.1	2780.1	1.63	1.76	1.73
2960.1	2990.1	1.50	1.68	1.70
3170.1	3200.1	1.39	1.30	1.30
3380.1	3410.1	1.36	1.15	1.14
3590.1	3620.1	1.48	1.19	1.12
3800.1	3830.1	1.62	1.24	1.16
4010.1	4040.1	1.59	1.05	0.98
4220.1	4250.1	1.44	0.99	1.00
4430.1	4460.1	1.45	0.94	0.86
4640.1	4670.1	1.18	0.78	0.69
4850.1	4880.1	1.06	0.72	0.59
5060.1	5090.1	0.91	0.62	0.50
5270.1	5300.1	0.91	0.55	0.46
5480.1	5510.1	0.84	0.49	0.37
5690.1	5720.1	0.78	0.45	0.34
5900.1	5930.1	0.73	0.47	0.37
6131.1	6161.1	0.43	0.36	0.40
6341.1	6371.1	0.38	0.33	0.37
6572.1	6602.1	0.48	0.38	0.41
6782.1	6812.1	0.56	0.43	0.43
7013.1	7043.1	0.57	0.41	0.39
7223.1	7253.1	0.68	0.46	0.47
7454.1	7484.1	0.66	0.47	0.52
7664.1	7694.1	0.73	0.52	0.55
7895.1	7925.1	0.98	0.72	0.79
8105.1	8135.1	1.12	0.83	0.94
8336.1	8366.1	1.15	0.86	1.01
8546.1	8576.1	1.06	0.81	0.92
8777.1	8807.1	1.13	0.76	0.92
8987.1	9017.1	0.97	0.61	0.75
9218.1	9248.1	0.72	0.42	0.63
9428.1	9458.1	0.59	0.31	0.54
9659.1	9689.1	0.39	0.18	0.37
9869.1	9899.1	0.42	0.12	0.25
10100.1	10130.1	0.49	0.09	0.18

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=5350MHz (dB) @LO (dBm) +17
1649.9	3700.1	6.52
1569.9	3780.1	6.67
1489.9	3860.1	6.74
1409.9	3940.1	6.76
1329.9	4020.1	6.95
1249.9	4100.1	6.98
1169.9	4180.1	6.89
1089.9	4260.1	6.70
1009.9	4340.1	6.67
929.9	4420.1	6.71
849.9	4500.1	6.64
770.0	4580.0	6.42
690.0	4660.0	6.27
610.0	4740.0	6.23
530.0	4820.0	6.21
450.0	4900.0	6.08
370.0	4980.0	5.91
290.0	5060.0	5.80
210.0	5140.0	5.72
130.0	5220.0	5.68
50.0	5300.0	5.68
30.0	5380.0	5.67
110.0	5460.0	5.62
210.0	5560.0	5.54
290.0	5640.0	5.51
390.0	5740.0	5.34
470.0	5820.0	5.27
570.0	5920.0	5.25
650.0	6000.0	5.29
750.0	6100.0	5.31
830.0	6180.0	5.38
930.1	6280.1	5.43
1010.1	6360.1	5.55
1110.1	6460.1	5.64
1190.1	6540.1	5.85
1290.1	6640.1	6.04
1370.1	6720.1	6.28
1470.1	6820.1	6.58
1550.1	6900.1	6.86
1650.1	7000.1	7.31

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3690MHz (dB) @LO (dBm) +17
10.1	3700.1	4.79
90.1	3780.1	4.45
170.1	3860.1	4.41
250.1	3940.1	4.35
330.1	4020.1	4.39
410.1	4100.1	4.42
490.1	4180.1	4.45
570.1	4260.1	4.44
650.1	4340.1	4.53
730.1	4420.1	4.74
810.1	4500.1	4.85
890.1	4580.1	4.79
970.1	4660.1	4.84
1050.1	4740.1	5.08
1130.1	4820.1	5.32
1210.1	4900.1	5.23
1290.1	4980.1	5.17
1370.1	5060.1	5.34
1450.1	5140.1	5.41
1530.1	5220.1	5.40
1610.1	5300.1	5.32
1690.1	5380.1	5.62
1770.1	5460.1	5.82
1850.1	5540.1	5.76
1930.1	5620.1	5.69
2010.1	5700.1	5.98
2090.1	5780.1	6.33
2170.1	5860.1	6.79
2250.1	5940.1	7.07
2330.1	6020.1	7.38
2410.1	6100.1	7.79
2490.1	6180.1	7.96
2570.1	6260.1	7.87
2650.1	6340.1	7.69
2730.1	6420.1	7.49
2810.1	6500.1	7.40
2890.1	6580.1	7.73
2970.1	6660.1	8.64
3050.1	6740.1	9.75
3110.1	6800.1	10.49

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=7010.1MHz (dB) @LO (dBm) +17
2810.0	4200.1	11.36
2730.0	4280.1	10.36
2650.0	4360.1	9.32
2570.0	4440.1	8.40
2490.0	4520.1	7.78
2410.0	4600.1	7.28
2330.0	4680.1	7.07
2250.0	4760.1	7.24
2170.0	4840.1	7.72
2110.0	4900.1	7.91
2030.0	4980.1	8.26
1970.0	5040.1	8.31
1890.0	5120.1	8.60
1830.0	5180.1	8.61
1750.0	5260.1	8.69
1690.0	5320.1	8.59
1610.0	5400.1	8.62
1550.0	5460.1	8.66
1470.0	5540.1	8.49
1410.0	5600.1	8.22
1330.0	5680.1	7.94
1270.0	5740.1	8.03
1190.0	5820.1	7.70
1130.0	5880.1	7.72
1050.0	5960.1	7.55
990.0	6020.1	7.55
910.0	6100.1	7.42
850.0	6160.1	7.35
770.0	6240.1	7.14
710.0	6300.1	7.02
630.0	6380.1	6.87
570.0	6440.1	6.64
490.0	6520.1	6.60
430.0	6580.1	6.45
350.0	6660.1	6.41
290.0	6720.1	6.33
210.0	6800.1	6.30
150.0	6860.1	6.32
70.0	6940.1	6.28
10.0	7000.1	6.61

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
1730.1	42.58	29.23	21.48	13.16	12.23	14.59
1940.1	31.64	28.54	27.92	13.58	12.97	13.09
2150.1	27.38	24.95	24.27	13.56	13.23	13.57
2360.1	24.19	22.39	22.39	13.46	12.86	13.55
2570.1	22.40	22.61	22.62	12.73	13.53	14.02
2780.1	24.06	24.99	25.03	14.39	16.19	16.48
2990.1	27.68	27.79	26.62	18.86	20.36	19.40
3200.1	31.56	30.26	28.43	25.21	24.60	22.97
3410.1	33.79	33.36	29.80	30.49	28.04	25.98
3620.1	36.22	35.57	32.13	32.36	30.25	28.32
3830.1	36.76	34.79	31.68	32.17	31.84	30.94
4040.1	38.54	36.54	31.63	32.12	32.55	32.40
4250.1	42.96	43.01	34.09	32.44	33.54	33.98
4460.1	46.25	36.91	31.66	32.23	33.32	34.12
4670.1	57.02	35.46	31.29	33.25	33.98	34.78
4880.1	52.97	34.81	30.37	34.34	34.64	34.97
5090.1	43.55	35.75	30.94	35.41	35.60	35.42
5300.1	40.01	34.71	30.85	36.22	36.10	35.42
5510.1	38.31	33.31	30.07	36.85	36.05	35.09
5720.1	37.64	33.96	30.36	37.50	36.13	34.72
5930.1	36.33	32.62	29.20	37.78	35.99	34.31
6161.1	36.03	33.13	30.53	37.82	35.69	34.17
6371.1	35.58	33.15	31.21	37.24	34.96	33.73
6602.1	35.77	34.16	32.52	36.59	34.58	33.37
6812.1	34.53	33.46	32.19	35.16	33.33	32.59
7043.1	33.02	32.89	31.82	33.24	32.51	31.58
7253.1	32.21	31.81	31.06	31.79	31.02	30.68
7484.1	30.62	30.41	29.51	29.88	29.94	29.65
7694.1	29.78	29.47	32.58	28.81	29.26	29.27
7925.1	28.88	28.78	28.97	28.05	28.87	29.19
8135.1	27.54	27.53	36.35	28.32	29.35	30.04
8366.1	26.50	26.75	27.97	29.74	30.96	32.09
8576.1	25.35	25.99	28.41	31.54	33.05	34.52
8807.1	24.88	26.12	27.03	33.85	35.64	37.47
9017.1	23.70	25.29	26.22	36.02	38.10	40.07
9248.1	22.97	24.68	26.30	38.74	41.06	42.52
9458.1	23.13	24.99	25.82	41.55	43.75	45.07
9689.1	22.94	24.25	25.41	45.18	45.96	44.86
9899.1	22.45	23.85	24.84	48.14	46.86	44.46
10130.1	21.65	22.84	23.80	50.59	46.34	44.02

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
1700.1	1730.1	8.31	10.87	10.85
1910.1	1940.1	8.58	9.74	10.39
2120.1	2150.1	8.52	9.25	9.69
2330.1	2360.1	8.85	9.22	9.29
2540.1	2570.1	9.24	8.82	8.56
2750.1	2780.1	8.89	8.69	8.72
2960.1	2990.1	8.92	9.13	9.46
3170.1	3200.1	9.66	10.27	10.68
3380.1	3410.1	11.19	11.97	12.28
3590.1	3620.1	13.33	13.79	13.86
3800.1	3830.1	15.54	15.49	15.25
4010.1	4040.1	17.28	16.59	16.09
4220.1	4250.1	18.94	17.38	16.74
4430.1	4460.1	19.87	17.91	17.05
4640.1	4670.1	19.74	17.97	17.12
4850.1	4880.1	19.53	18.18	17.38
5060.1	5090.1	19.30	18.29	17.59
5270.1	5300.1	19.16	18.39	17.86
5480.1	5510.1	19.10	18.53	18.05
5690.1	5720.1	19.32	18.86	18.47
5900.1	5930.1	19.75	19.44	19.22
6131.1	6161.1	19.58	19.54	19.44
6341.1	6371.1	19.55	19.54	19.49
6572.1	6602.1	19.42	19.37	19.33
6782.1	6812.1	19.71	19.62	19.59
7013.1	7043.1	19.77	19.77	19.77
7223.1	7253.1	20.32	20.40	20.42
7454.1	7484.1	20.68	20.75	20.79
7664.1	7694.1	20.98	21.06	21.17
7895.1	7925.1	21.85	22.00	22.11
8105.1	8135.1	23.06	23.23	23.43
8336.1	8366.1	24.99	25.33	25.62
8546.1	8576.1	26.50	27.01	27.54
8777.1	8807.1	27.86	28.63	29.18
8987.1	9017.1	29.05	29.91	30.60
9218.1	9248.1	30.52	31.45	32.20
9428.1	9458.1	32.43	33.32	33.92
9659.1	9689.1	33.96	34.50	34.85
9869.1	9899.1	34.53	34.68	34.78
10100.1	10130.1	34.16	34.06	34.02

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
1700.1	1730.1	8.27	7.83	7.31
1910.1	1940.1	5.81	5.36	4.96
2120.1	2150.1	4.21	3.73	3.49
2330.1	2360.1	3.34	2.81	2.62
2540.1	2570.1	2.62	2.13	1.97
2750.1	2780.1	2.15	1.65	1.49
2960.1	2990.1	2.04	1.59	1.33
3170.1	3200.1	1.92	1.46	1.21
3380.1	3410.1	1.80	1.30	1.05
3590.1	3620.1	1.67	1.27	1.18
3800.1	3830.1	1.65	1.37	1.35
4010.1	4040.1	1.70	1.51	1.55
4220.1	4250.1	1.90	1.71	1.77
4430.1	4460.1	2.14	1.94	2.01
4640.1	4670.1	2.43	2.21	2.27
4850.1	4880.1	2.70	2.46	2.48
5060.1	5090.1	3.00	2.71	2.64
5270.1	5300.1	3.25	2.92	2.80
5480.1	5510.1	3.35	3.00	2.83
5690.1	5720.1	3.35	2.92	2.71
5900.1	5930.1	3.57	3.01	2.64
6131.1	6161.1	4.26	3.64	3.13
6341.1	6371.1	4.34	3.79	3.42
6572.1	6602.1	4.30	3.80	3.48
6782.1	6812.1	3.88	3.42	3.13
7013.1	7043.1	3.60	3.20	2.89
7223.1	7253.1	3.27	2.89	2.62
7454.1	7484.1	2.89	2.58	2.31
7664.1	7694.1	2.52	2.23	2.00
7895.1	7925.1	2.16	1.91	1.70
8105.1	8135.1	1.80	1.59	1.43
8336.1	8366.1	1.38	1.27	1.26
8546.1	8576.1	1.17	1.29	1.44
8777.1	8807.1	1.43	1.68	1.90
8987.1	9017.1	1.93	2.20	2.44
9218.1	9248.1	2.74	3.03	3.24
9428.1	9458.1	3.78	4.09	4.31
9659.1	9689.1	5.25	5.61	5.93
9869.1	9899.1	7.22	7.73	8.27
10100.1	10130.1	7.47	7.73	8.08

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
1730.1	5.51	2.35	1.25
1940.1	4.77	2.17	1.39
2150.1	4.50	2.07	1.25
2360.1	4.40	2.01	1.17
2570.1	4.27	1.95	1.11
2780.1	4.39	1.94	1.09
2990.1	4.66	1.95	1.08
3200.1	5.12	2.00	1.09
3410.1	5.19	2.01	1.10
3620.1	5.04	2.00	1.10
3830.1	4.78	1.98	1.14
4040.1	4.67	1.96	1.16
4250.1	4.63	1.96	1.20
4460.1	4.67	1.92	1.16
4670.1	4.51	1.87	1.18
4880.1	4.19	1.79	1.21
5090.1	3.70	1.67	1.23
5300.1	3.26	1.56	1.28
5510.1	2.99	1.51	1.35
5720.1	2.77	1.44	1.40
5930.1	2.44	1.32	1.42
6161.1	2.12	1.23	1.48
6371.1	1.97	1.23	1.56
6602.1	1.82	1.24	1.69
6812.1	1.66	1.25	1.77
7043.1	1.51	1.24	1.84
7253.1	1.34	1.28	1.91
7484.1	1.21	1.34	1.97
7694.1	1.18	1.39	2.03
7925.1	1.19	1.47	2.13
8135.1	1.26	1.53	2.20
8366.1	1.41	1.69	2.39
8576.1	1.61	1.88	2.58
8807.1	1.91	2.05	2.66
9017.1	2.26	2.26	2.79
9248.1	2.73	2.54	3.03
9458.1	3.17	2.76	3.15
9689.1	3.65	3.00	3.24
9899.1	4.26	3.21	3.27
10130.1	5.02	3.45	3.34

IF (OUT) (MHz)	IF VSWR @LO=7000MHz (:1) @LO (dBm)		
	+14	+17	+20
10.1	1.32	1.57	1.78
90.1	1.34	1.58	1.81
170.1	1.30	1.53	1.75
250.1	1.28	1.50	1.71
330.1	1.28	1.50	1.70
410.1	1.28	1.48	1.67
490.1	1.30	1.50	1.69
570.1	1.29	1.49	1.67
650.1	1.25	1.44	1.62
730.1	1.15	1.32	1.49
810.1	1.17	1.27	1.40
890.1	1.19	1.26	1.38
970.1	1.15	1.21	1.33
1050.1	1.13	1.10	1.21
1130.1	1.26	1.10	1.07
1210.1	1.37	1.19	1.06
1290.1	1.45	1.26	1.11
1370.1	1.57	1.37	1.21
1450.1	1.82	1.59	1.41
1530.1	2.03	1.78	1.58
1610.1	2.21	1.95	1.74
1690.1	2.37	2.11	1.88
1770.1	2.63	2.34	2.10
1850.1	2.86	2.56	2.30
1930.1	3.17	2.84	2.56
2010.1	3.39	3.06	2.75
2090.1	3.64	3.30	2.99
2170.1	3.70	3.38	3.08
2250.1	3.81	3.49	3.19
2310.1	3.84	3.52	3.22
2390.1	3.88	3.56	3.28
2450.1	3.99	3.67	3.39
2530.1	3.80	3.52	3.27
2590.1	3.72	3.47	3.27
2670.1	3.63	3.44	3.31
2730.1	3.48	3.36	3.31
2810.1	3.35	3.35	3.43
2870.1	3.34	3.44	3.61
2950.1	3.58	3.82	4.12
3010.1	3.91	4.27	4.67

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	11	26	17	35	---	---	---	---	---	---
1	-	13	+0	42	41	43	48	---	---	---	---	---
2	66	74	82	53	72	68	57	72	---	---	---	---
3	>90	82	>83	82	60	81	>83	>83	>83	---	---	---
4	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	---	---
5	---	---	>83	>83	>83	>83	>83	>83	>83	>83	>83	---
6	---	---	---	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	---	---	---	---	>83	>83	>83	>83	>83	>83	>83	>83
8	---	---	---	---	---	>83	>83	>83	>83	>83	>83	>83
9	---	---	---	---	---	---	>83	>83	>83	>83	>83	>83
10	---	---	---	---	---	---	---	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 5350 MHz; -1.00 dBm.
LO IN: 5380 MHz; +17.00 dBm
IF OUT: 30 MHz; -6.95 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	21	37	28	49	---	---	---	---	---	---
1	-	13	+0	43	41	46	52	---	---	---	---	---
2	46	63	73	44	64	60	49	64	---	---	---	---
3	63	62	65	61	40	62	72	64	65	---	---	---
4	82	>93	>93	>93	92	65	88	78	68	79	---	---
5	---	---	83	92	>93	87	65	86	>93	84	82	---
6	---	---	---	>93	>93	>93	>93	87	>93	>93	86	>93
7	---	---	---	---	>93	>93	>93	>93	80	>93	>93	>93
8	---	---	---	---	---	>93	>93	>93	>93	>93	>93	>93
9	---	---	---	---	---	---	>93	>93	>93	>93	89	>93
10	---	---	---	---	---	---	---	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 5350 MHz; 9.00 dBm.
LO IN: 5380 MHz; +17.00 dBm
IF OUT: 30 MHz; 2.88 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.