Frequency Mixer MCA1-ED12413/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=4560MHz (dB) @LO (dBm)		
		+14	+17	+20
10.1	4570.1	5.06	5.06	5.14
130.1	4690.1	5.63	5.52	5.63
250.1	4810.1	5.76	5.73	5.90
370.1	4930.1	5.98	5.98	6.20
490.1	5050.1	6.38	6.33	6.53
610.1	5170.1	6.61	6.49	6.65
730.1	5290.1	6.61	6.59	6.84
850.1	5410.1	7.11	7.05	7.30
970.1	5530.1	7.41	7.36	7.59
1090.1	5650.1	7.99	7.95	8.08
1210.1	5770.1	8.75	8.52	8.43
1310.1	5870.1	8.60	8.25	8.14
1430.1	5990.1	8.15	7.72	7.62
1530.1	6090.1	7.56	7.11	7.08
1650.1	6210.1	7.09	6.65	6.68
1750.1	6310.1	6.95	6.43	6.48
1870.1	6430.1	6.76	6.21	6.27
1970.1	6530.1	6.55	5.93	6.05
2090.1	6650.1	6.23	5.65	5.80
2190.1	6750.1	6.14	5.57	5.68
2310.1	6870.1	5.91	5.39	5.53
2410.1	6970.1	5.75	5.33	5.44
2530.1	7090.1	6.02	5.46	5.55
2630.1	7190.1	6.06	5.51	5.66
2750.1	7310.1	5.77	5.47	5.64
2850.1	7410.1	5.61	5.41	5.64
2970.1	7530.1	5.30	5.30	5.63
3070.1	7630.1	5.24	5.28	5.63
3190.1	7750.1	5.35	5.34	5.67
3290.1	7850.1	5.44	5.46	5.78
3410.1	7970.1	5.54	5.56	5.94
3510.1	8070.1	5.56	5.58	6.02
3630.1	8190.1	5.33	5.50	6.01
3730.1	8290.1	5.20	5.47	6.07
3850.1	8410.1	5.28	5.55	6.16
3950.1	8510.1	5.30	5.53	6.15
4070.1	8630.1	5.26	5.61	6.31
4170.1	8730.1	5.25	5.66	6.43
4290.1	8850.1	5.35	5.90	6.74
4390.1	8950.1	5.46	6.11	7.00

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+14	+17	+20
10.1	4570.1	20.45	24.19	24.68
130.1	4690.1	20.00	22.77	23.64
250.1	4810.1	19.70	22.93	24.22
370.1	4930.1	20.44	24.07	25.26
490.1	5050.1	20.91	23.61	24.55
610.1	5170.1	22.08	24.47	24.68
730.1	5290.1	21.74	24.15	24.03
850.1	5410.1	21.85	24.42	24.32
970.1	5530.1	22.85	24.80	24.41
1090.1	5650.1	23.49	23.78	23.55
1210.1	5770.1	23.63	22.23	22.88
1310.1	5870.1	22.14	22.14	23.64
1430.1	5990.1	21.16	21.50	24.00
1530.1	6090.1	22.29	22.10	25.65
1650.1	6210.1	23.26	23.57	27.88
1750.1	6310.1	22.75	24.96	31.19
1870.1	6430.1	23.25	28.24	29.62
1970.1	6530.1	21.01	27.37	26.92
2090.1	6650.1	19.73	25.03	25.27
2190.1	6750.1	20.12	24.69	24.81
2310.1	6870.1	20.99	24.78	24.94
2410.1	6970.1	21.07	24.44	24.65
2530.1	7090.1	20.38	24.33	24.65
2630.1	7190.1	19.48	23.95	23.88
2750.1	7310.1	20.12	23.92	23.88
2850.1	7410.1	20.44	24.16	23.72
2970.1	7530.1	21.03	23.51	23.40
3070.1	7630.1	21.25	23.51	23.66
3190.1	7750.1	20.61	23.42	23.75
3290.1	7850.1	21.39	23.98	24.11
3410.1	7970.1	21.61	24.17	24.18
3510.1	8070.1	21.60	23.44	23.70
3630.1	8190.1	20.60	23.15	23.48
3730.1	8290.1	19.41	22.69	23.35
3850.1	8410.1	18.62	22.58	23.47
3950.1	8510.1	18.76	22.53	23.36
4070.1	8630.1	18.93	22.55	23.45
4170.1	8730.1	18.65	22.58	23.37
4290.1	8850.1	18.29	22.64	23.34
4390.1	8950.1	18.51	23.20	23.84

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB) @LO (dBm)		
		+14	+17	+20
10.1	4570.1	4.38	3.68	3.12
130.1	4690.1	3.77	3.07	2.61
250.1	4810.1	3.56	2.93	2.39
370.1	4930.1	3.27	2.65	2.18
490.1	5050.1	2.94	2.46	2.10
610.1	5170.1	2.59	2.23	1.97
730.1	5290.1	2.38	1.95	1.75
850.1	5410.1	2.12	1.75	1.58
970.1	5530.1	1.80	1.48	1.38
1090.1	5650.1	1.13	0.87	0.88
1210.1	5770.1	0.31	0.11	0.24
1310.1	5870.1	0.31	0.12	0.20
1430.1	5990.1	0.76	0.43	0.45
1530.1	6090.1	1.44	1.00	0.91
1650.1	6210.1	2.08	1.50	1.28
1750.1	6310.1	2.30	1.76	1.49
1870.1	6430.1	2.55	1.88	1.58
1970.1	6530.1	2.72	1.97	1.58
2090.1	6650.1	3.00	2.14	1.71
2190.1	6750.1	2.98	2.10	1.71
2310.1	6870.1	3.33	2.37	1.91
2410.1	6970.1	3.29	2.33	1.88
2530.1	7090.1	3.35	2.37	1.84
2630.1	7190.1	3.35	2.34	1.84
2750.1	7310.1	3.66	2.52	2.02
2850.1	7410.1	3.80	2.60	2.09
2970.1	7530.1	3.89	2.73	2.11
3070.1	7630.1	3.70	2.59	1.99
3190.1	7750.1	3.76	2.65	2.00
3290.1	7850.1	3.82	2.68	2.02
3410.1	7970.1	3.96	2.68	1.97
3510.1	8070.1	3.95	2.69	1.94
3630.1	8190.1	4.12	2.64	1.89
3730.1	8290.1	4.18	2.65	1.80
3850.1	8410.1	4.13	2.46	1.74
3950.1	8510.1	4.04	2.48	1.76
4070.1	8630.1	4.11	2.51	1.79
4170.1	8730.1	4.10	2.44	1.71
4290.1	8850.1	4.10	2.34	1.65
4390.1	8950.1	4.20	2.38	1.69

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1630.1MHz (dB)
		@LO (dBm)
		+17
3270.2	1640.1	11.59
3410.2	1780.1	9.68
3550.2	1920.1	7.43
3690.2	2060.1	6.33
3830.2	2200.1	5.23
3970.2	2340.1	4.80
4110.2	2480.1	5.01
4250.2	2620.1	4.76
4390.2	2760.1	5.05
4530.2	2900.1	4.93
4670.2	3040.1	5.24
4810.2	3180.1	5.21
4950.2	3320.1	5.43
5090.2	3460.1	5.40
5230.2	3600.1	5.43
5370.2	3740.1	5.66
5510.2	3880.1	5.64
5650.2	4020.1	5.92
5790.2	4160.1	6.21
5930.2	4300.1	5.88
6070.2	4440.1	6.29
6210.2	4580.1	6.38
6350.2	4720.1	6.60
6490.2	4860.1	6.91
6630.2	5000.1	7.18
6770.2	5140.1	7.66
6930.2	5300.1	7.88
7070.2	5440.1	7.79
7230.2	5600.1	8.37
7370.2	5740.1	8.18
7530.2	5900.1	8.07
7670.2	6040.1	7.94
7830.2	6200.1	8.40
7970.2	6340.1	8.97
8130.2	6500.1	9.79
8270.2	6640.1	11.02
8430.2	6800.1	10.68
8570.2	6940.1	10.01
8730.2	7100.1	9.88
8870.2	7240.1	9.47

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)
		@LO (dBm)
		+17
2580.0	2590.1	11.88
2860.0	2870.1	9.06
3140.0	3150.1	7.03
3420.0	3430.1	5.79
3700.0	3710.1	5.20
3980.0	3990.1	4.88
4260.0	4270.1	4.76
4540.0	4550.1	5.00
4820.0	4830.1	5.34
5100.0	5110.1	5.64
5380.0	5390.1	5.86
5660.0	5670.1	6.26
5940.0	5950.1	6.39
6220.0	6230.1	6.59
6500.0	6510.1	6.92
6780.0	6790.1	7.28
7060.0	7070.1	6.95
7340.0	7350.1	7.30
7620.0	7630.1	7.58
7900.0	7910.1	7.82
8180.0	8190.1	8.68
8460.0	8470.1	8.73
8740.0	8750.1	8.00
9020.0	9030.1	8.00
9300.0	9310.1	7.64
9580.0	9590.1	7.02
9860.0	9870.1	6.91
10140.0	10150.1	7.51
10420.0	10430.1	8.29
10700.0	10710.1	8.55
10980.0	10990.1	8.20
11260.0	11270.1	8.24
11540.0	11550.1	8.86
11840.0	11850.1	10.46
12120.0	12130.1	10.18
12420.0	12430.1	9.46
12700.0	12710.1	9.53
13000.0	13010.1	9.48
13280.0	13290.1	9.74
13580.0	13590.1	10.92

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3250.1001MHz (dB)
		@LO (dBm)
		+17
4790.2	1540.1	12.34
4830.2	1580.1	10.31
4870.2	1620.1	6.51
4910.2	1660.1	6.35
4950.2	1700.1	6.37
4990.2	1740.1	6.06
5030.2	1780.1	6.21
5070.2	1820.1	6.05
5110.2	1860.1	6.03
5150.2	1900.1	6.12
5190.2	1940.1	6.00
5230.2	1980.1	6.05
5270.2	2020.1	6.01
5310.2	2060.1	5.87
5350.2	2100.1	5.85
5390.2	2140.1	5.90
5430.2	2180.1	5.88
5470.2	2220.1	6.06
5510.2	2260.1	5.93
5550.2	2300.1	5.91
5590.2	2340.1	6.01
5630.2	2380.1	5.87
5670.2	2420.1	6.18
5710.2	2460.1	5.97
5750.2	2500.1	6.03
5790.2	2540.1	6.17
5830.2	2580.1	5.96
5890.2	2640.1	6.13
5930.2	2680.1	5.95
5990.2	2740.1	6.10
6030.2	2780.1	5.99
6090.2	2840.1	6.10
6130.2	2880.1	6.00
6190.2	2940.1	6.07
6230.2	2980.1	6.00
6290.2	3040.1	6.02
6330.2	3080.1	6.03
6390.2	3140.1	6.07
6430.2	3180.1	6.11
6490.2	3240.1	6.16

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+14	+17	+20	+14	+17	+20
4570.1	15.36	15.88	15.51	35.80	42.03	45.32
4690.1	14.93	16.57	17.08	38.85	46.93	51.34
4810.1	14.75	16.68	17.61	32.57	36.34	40.16
4930.1	15.02	17.03	18.35	29.86	33.55	36.68
5050.1	15.73	17.80	19.38	32.05	37.78	45.53
5170.1	16.33	18.45	20.21	28.25	30.85	34.88
5290.1	16.78	18.89	20.80	33.10	35.19	39.01
5410.1	17.64	19.74	21.67	50.27	57.17	50.54
5530.1	18.27	20.33	22.23	50.61	45.50	42.65
5650.1	19.09	21.04	22.78	41.76	40.15	39.42
5770.1	19.83	21.56	23.00	39.50	38.09	37.66
5870.1	21.09	22.51	23.47	39.28	37.49	36.40
5990.1	22.42	23.39	23.66	39.49	38.13	37.13
6090.1	23.20	23.69	23.41	40.47	38.99	38.14
6210.1	24.05	23.95	23.18	40.08	38.30	37.58
6310.1	25.14	24.11	22.80	39.77	38.96	38.58
6430.1	26.42	24.48	22.77	40.26	40.26	40.62
6530.1	27.25	24.58	22.64	41.37	42.57	43.90
6650.1	28.54	25.24	23.07	44.93	50.11	56.72
6750.1	29.21	25.64	23.47	42.08	43.08	42.18
6870.1	29.24	26.01	24.01	35.15	35.35	35.79
6970.1	30.44	27.75	25.87	32.49	33.36	34.33
7090.1	30.00	28.07	26.38	31.04	32.12	33.51
7190.1	28.30	27.14	25.84	28.10	28.38	30.51
7310.1	25.82	25.27	24.43	28.28	28.81	30.03
7410.1	24.36	24.37	23.91	28.77	29.78	31.17
7530.1	23.24	23.73	23.78	28.86	30.07	32.53
7630.1	22.10	23.41	24.15	28.04	29.75	31.84
7750.1	20.66	22.41	23.69	26.37	29.12	31.73
7850.1	20.03	21.76	23.39	25.51	28.40	30.85
7970.1	18.90	20.57	22.19	23.74	26.22	28.55
8070.1	17.78	19.32	20.69	22.14	24.22	26.28
8190.1	17.25	18.65	19.70	20.46	22.19	23.74
8290.1	17.90	19.04	19.65	20.86	22.13	23.04
8410.1	20.21	21.07	21.11	22.70	23.31	23.40
8510.1	23.02	23.72	23.36	26.06	25.84	25.04
8630.1	23.71	25.04	25.37	28.00	27.03	25.84
8730.1	22.95	24.86	26.25	28.60	27.23	25.98
8850.1	21.51	23.66	25.98	27.78	26.62	25.62
8950.1	20.01	22.18	24.59	26.43	25.70	25.07

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+14	+17	+20
10.1	4570.1	69.65	68.81	68.20
130.1	4690.1	47.85	46.94	46.45
250.1	4810.1	40.51	40.00	39.72
370.1	4930.1	35.60	35.27	35.10
490.1	5050.1	31.98	31.85	31.81
610.1	5170.1	29.10	29.04	29.02
730.1	5290.1	26.79	26.78	26.80
850.1	5410.1	24.98	24.99	25.05
970.1	5530.1	23.35	23.41	23.48
1090.1	5650.1	21.81	21.86	21.91
1210.1	5770.1	20.58	20.65	20.73
1310.1	5870.1	19.67	19.71	19.80
1430.1	5990.1	18.64	18.71	18.79
1530.1	6090.1	17.76	17.87	18.01
1650.1	6210.1	16.90	17.05	17.22
1750.1	6310.1	16.27	16.44	16.62
1870.1	6430.1	15.36	15.75	16.07
1970.1	6530.1	14.63	15.20	15.74
2090.1	6650.1	14.07	14.50	15.05
2190.1	6750.1	13.56	13.95	14.43
2310.1	6870.1	13.24	13.71	14.27
2410.1	6970.1	12.91	13.42	13.98
2530.1	7090.1	12.49	13.07	13.61
2630.1	7190.1	12.25	12.87	13.34
2750.1	7310.1	12.15	12.85	13.47
2850.1	7410.1	12.11	12.99	13.72
2970.1	7530.1	12.64	13.40	14.21
3070.1	7630.1	13.13	13.95	14.79
3190.1	7750.1	13.70	14.54	15.32
3290.1	7850.1	13.81	14.68	15.34
3410.1	7970.1	13.83	14.69	15.41
3510.1	8070.1	14.25	15.04	15.81
3630.1	8190.1	14.59	15.39	16.23
3730.1	8290.1	14.97	15.54	16.24
3850.1	8410.1	15.99	16.38	16.77
3950.1	8510.1	17.52	17.42	17.24
4070.1	8630.1	19.15	18.44	17.57
4170.1	8730.1	19.02	18.23	17.24
4290.1	8850.1	18.85	17.94	16.88
4390.1	8950.1	18.76	17.75	16.58

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+14	+17	+20
10.1	4570.1	2.92	2.33	2.06
130.1	4690.1	2.98	2.42	2.08
250.1	4810.1	2.98	2.52	2.15
370.1	4930.1	3.12	2.68	2.35
490.1	5050.1	3.33	2.90	2.55
610.1	5170.1	3.44	3.00	2.71
730.1	5290.1	3.65	3.14	2.80
850.1	5410.1	3.86	3.37	2.92
970.1	5530.1	4.01	3.48	3.03
1090.1	5650.1	4.08	3.54	3.13
1210.1	5770.1	3.95	3.40	3.00
1310.1	5870.1	3.90	3.30	2.92
1430.1	5990.1	3.76	3.13	2.73
1530.1	6090.1	3.82	3.10	2.66
1650.1	6210.1	3.67	2.98	2.54
1750.1	6310.1	3.85	3.02	2.55
1870.1	6430.1	3.72	2.81	2.38
1970.1	6530.1	3.54	2.57	2.14
2090.1	6650.1	3.24	2.40	1.96
2190.1	6750.1	3.05	2.33	1.91
2310.1	6870.1	2.73	2.11	1.75
2410.1	6970.1	2.44	1.94	1.63
2530.1	7090.1	2.41	1.84	1.54
2630.1	7190.1	2.35	1.74	1.48
2750.1	7310.1	2.17	1.69	1.44
2850.1	7410.1	2.02	1.56	1.34
2970.1	7530.1	1.73	1.42	1.21
3070.1	7630.1	1.65	1.34	1.15
3190.1	7750.1	1.66	1.33	1.13
3290.1	7850.1	1.65	1.33	1.13
3410.1	7970.1	1.71	1.36	1.14
3510.1	8070.1	1.73	1.34	1.12
3630.1	8190.1	1.68	1.31	1.11
3730.1	8290.1	1.57	1.22	1.01
3850.1	8410.1	1.63	1.23	1.11
3950.1	8510.1	1.65	1.24	1.14
4070.1	8630.1	1.55	1.23	1.23
4170.1	8730.1	1.45	1.24	1.31
4290.1	8850.1	1.32	1.32	1.47
4390.1	8950.1	1.23	1.45	1.66

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+14	+17	+20
4570.1	1.73	1.05	1.46
4690.1	1.73	1.03	1.49
4810.1	1.71	1.04	1.49
4930.1	1.75	1.10	1.49
5050.1	1.78	1.16	1.50
5170.1	1.82	1.18	1.47
5290.1	1.92	1.30	1.51
5410.1	1.95	1.35	1.56
5530.1	1.96	1.36	1.57
5650.1	1.95	1.35	1.53
5770.1	2.04	1.35	1.47
5870.1	2.19	1.43	1.46
5990.1	2.36	1.51	1.45
6090.1	2.46	1.55	1.44
6210.1	2.55	1.59	1.42
6310.1	2.62	1.61	1.40
6430.1	2.67	1.63	1.37
6530.1	2.73	1.65	1.34
6650.1	2.76	1.68	1.34
6750.1	2.73	1.68	1.35
6870.1	2.73	1.69	1.37
6970.1	2.67	1.66	1.38
7090.1	2.70	1.63	1.38
7190.1	2.64	1.59	1.37
7310.1	2.58	1.54	1.38
7410.1	2.52	1.51	1.38
7530.1	2.40	1.49	1.39
7630.1	2.39	1.50	1.40
7750.1	2.44	1.52	1.41
7850.1	2.46	1.53	1.41
7970.1	2.51	1.55	1.41
8070.1	2.53	1.59	1.44
8190.1	2.63	1.66	1.49
8290.1	2.69	1.67	1.47
8410.1	2.86	1.72	1.46
8510.1	2.98	1.76	1.46
8630.1	2.89	1.76	1.45
8730.1	2.84	1.74	1.42
8850.1	2.69	1.67	1.34
8950.1	2.55	1.59	1.26

IF (OUT) (MHz)	IF VSWR @LO=7770MHz (:1) @LO (dBm)		
	+14	+17	+20
3550.0	4.25	3.63	3.37
3650.0	3.41	3.01	2.86
3750.0	2.83	2.55	2.48
3850.0	2.32	2.14	2.15
3950.0	1.93	1.86	1.95
4050.0	1.69	1.73	1.89
4150.0	1.44	1.58	1.78
4250.0	1.30	1.53	1.74
4350.0	1.32	1.58	1.80
4450.0	1.45	1.72	1.93
4570.0	1.61	1.88	2.09
4670.0	1.80	2.05	2.25
4790.0	2.03	2.27	2.44
4890.0	2.29	2.51	2.67
5010.0	2.66	2.90	3.06
5110.0	2.87	3.11	3.26
5230.0	3.01	3.24	3.39
5330.0	3.10	3.31	3.45
5450.0	3.16	3.34	3.47
5550.0	3.24	3.40	3.52
5670.0	3.27	3.40	3.50
5770.0	3.37	3.47	3.56
5890.0	3.29	3.39	3.48
5990.0	3.33	3.40	3.48
6110.0	3.30	3.36	3.45
6210.0	3.25	3.27	3.35
6330.0	3.21	3.22	3.29
6430.0	3.03	3.00	3.06
6550.0	2.98	2.91	2.92
6650.0	2.88	2.78	2.79
6770.0	3.08	2.90	2.85
6870.0	3.13	2.93	2.87
6990.0	3.55	3.21	3.07
7090.0	3.75	3.36	3.20
7210.0	4.23	3.69	3.42
7310.0	4.30	3.76	3.48
7430.0	4.57	3.90	3.56
7530.0	4.41	3.80	3.47
7650.0	4.56	3.91	3.54
7750.0	4.24	3.73	3.40

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	+5	32	---	---	---	---	---	---	---
1	-	11	+0	18	23	44	---	---	---	---	---	---
2	60	41	46	41	54	70	---	---	---	---	---	---
3	>90	74	69	74	60	81	---	---	---	---	---	---
4	>90	81	>82	82	>82	>82	---	---	---	---	---	---
5	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
6	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
7	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
8	>90	>82	>82	>82	>82	>82	>82	---	---	---	---	---
9	>90	>82	>82	>82	>82	>82	>82	>82	---	---	---	---
10	>90	>82	>82	>82	>82	>82	>82	>82	---	---	---	---
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 1625 MHz; -1.00 dBm.
LO IN: 6185 MHz; +17.00 dBm
IF OUT: 4560 MHz; -7.78 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	7	42	---	---	---	---	---	---	---
1	-	11	+0	19	24	47	---	---	---	---	---	---
2	40	34	36	29	45	60	---	---	---	---	---	---
3	76	46	44	57	37	61	---	---	---	---	---	---
4	>90	47	70	46	54	80	---	---	---	---	---	---
5	>90	61	53	62	53	63	90	---	---	---	---	---
6	>90	56	60	57	62	64	86	---	---	---	---	---
7	>90	65	59	74	63	70	>92	---	---	---	---	---
8	>90	69	75	83	71	69	>92	---	---	---	---	---
9	>90	83	78	78	76	81	>92	>92	---	---	---	---
10	>90	>92	83	88	86	82	>92	>92	---	---	---	---
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1625 MHz; 9.00 dBm.
LO IN: 6185 MHz; +17.00 dBm
IF OUT: 4560 MHz; 2.32 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.