

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
300.1	330.1	6.69	5.77	5.56	300.1	330.1	2.94	9.44	14.26	300.1	330.1	2.51	1.51	0.97
350.1	380.1	5.47	5.24	5.11	350.1	380.1	10.62	12.36	13.40	350.1	380.1	2.24	1.71	1.28
400.1	430.1	5.29	4.97	4.79	400.1	430.1	6.05	8.26	11.23	400.1	430.1	2.95	2.53	2.18
450.1	480.1	5.97	5.45	5.07	450.1	480.1	6.00	8.33	10.49	450.1	480.1	2.69	2.46	2.28
500.1	530.1	6.89	6.17	5.71	500.1	530.1	7.91	10.84	12.58	500.1	530.1	1.81	1.82	1.74
550.1	580.1	7.01	6.46	6.15	550.1	580.1	7.54	9.81	11.11	550.1	580.1	1.40	1.25	1.09
650.1	680.1	6.59	6.40	6.30	650.1	680.1	8.28	9.61	11.26	650.1	680.1	0.91	0.75	0.64
700.1	730.1	6.39	6.25	6.21	700.1	730.1	11.14	9.93	11.45	700.1	730.1	0.89	0.60	0.45
750.1	780.1	6.36	6.10	6.07	750.1	780.1	7.63	8.44	14.70	750.1	780.1	0.97	0.75	0.53
800.1	830.1	6.71	6.33	6.16	800.1	830.1	11.99	9.66	9.88	800.1	830.1	0.77	0.64	0.52
850.1	880.1	7.06	6.68	6.46	850.1	880.1	15.15	15.25	14.29	850.1	880.1	0.66	0.51	0.42
900.1	930.1	7.27	6.91	6.67	900.1	930.1	24.00	19.60	15.72	900.1	930.1	0.53	0.42	0.34
950.1	980.1	7.25	6.91	6.72	950.1	980.1	13.49	14.38	16.25	950.1	980.1	0.67	0.47	0.34
1000.1	1030.1	7.11	6.83	6.67	1000.1	1030.1	12.38	16.13	22.10	1000.1	1030.1	0.64	0.44	0.30
1050.1	1080.1	7.06	6.84	6.69	1050.1	1080.1	14.43	15.79	16.31	1050.1	1080.1	0.71	0.48	0.35
1100.1	1130.1	7.03	6.75	6.60	1100.1	1130.1	11.07	12.39	13.74	1100.1	1130.1	0.76	0.54	0.39
1150.1	1180.1	7.31	6.87	6.63	1150.1	1180.1	12.86	12.23	11.97	1150.1	1180.1	0.96	0.72	0.54
1200.1	1230.1	7.71	7.05	6.66	1200.1	1230.1	9.42	11.05	12.11	1200.1	1230.1	1.01	0.86	0.68
1250.1	1280.1	7.11	6.62	6.34	1250.1	1280.1	10.46	11.00	11.75	1250.1	1280.1	1.16	0.93	0.73
1300.1	1330.1	7.53	6.83	6.39	1300.1	1330.1	6.43	7.34	8.53	1300.1	1330.1	1.64	1.59	1.46
1350.1	1380.1	6.69	6.27	6.00	1350.1	1380.1	5.92	5.67	6.96	1350.1	1380.1	1.76	1.55	1.39
1400.1	1430.1	6.02	5.59	5.32	1400.1	1430.1	5.34	5.36	5.74	1400.1	1430.1	1.69	1.55	1.43
1450.1	1480.1	5.86	5.46	5.20	1450.1	1480.1	3.72	4.09	4.72	1450.1	1480.1	1.74	1.52	1.35
1500.1	1530.1	5.64	5.30	5.08	1500.1	1530.1	3.51	5.03	7.56	1500.1	1530.1	1.67	1.42	1.21
1550.1	1580.1	5.42	5.02	4.90	1550.1	1580.1	9.00	12.44	12.81	1550.1	1580.1	1.53	1.09	0.80
1600.1	1630.1	5.12	4.91	4.87	1600.1	1630.1	12.22	13.17	13.34	1600.1	1630.1	1.20	0.73	0.52
1650.1	1680.1	5.21	5.06	5.04	1650.1	1680.1	12.67	12.12	13.43	1650.1	1680.1	1.10	0.65	0.44
1700.1	1730.1	5.25	5.06	5.00	1700.1	1730.1	13.81	15.87	14.69	1700.1	1730.1	1.24	0.86	0.62
1750.1	1780.1	5.44	5.25	5.19	1750.1	1780.1	12.33	16.19	16.25	1750.1	1780.1	1.31	0.90	0.63
1800.1	1830.1	5.57	5.35	5.26	1800.1	1830.1	11.21	14.11	15.49	1800.1	1830.1	1.37	0.97	0.70
1850.1	1880.1	5.55	5.45	5.44	1850.1	1880.1	8.79	12.74	16.06	1850.1	1880.1	1.05	0.53	0.33
1900.1	1930.1	5.78	5.43	5.33	1900.1	1930.1	9.04	13.42	13.23	1900.1	1930.1	1.42	0.95	0.61
1950.1	1980.1	6.14	5.67	5.48	1950.1	1980.1	7.32	14.12	15.39	1950.1	1980.1	1.38	1.05	0.77
2000.1	2030.1	6.70	6.04	5.70	2000.1	2030.1	8.67	10.27	17.10	2000.1	2030.1	1.22	1.01	0.81
2050.1	2080.1	6.95	6.26	5.88	2050.1	2080.1	11.59	13.01	14.84	2050.1	2080.1	1.04	0.93	0.82
2100.1	2130.1	7.77	6.93	6.48	2100.1	2130.1	8.77	12.58	15.07	2100.1	2130.1	0.92	0.84	0.75
2200.1	2230.1	7.57	6.79	6.45	2200.1	2230.1	6.81	8.84	11.15	2200.1	2230.1	1.00	0.69	0.53
2300.1	2330.1	7.47	6.42	6.21	2300.1	2330.1	7.43	12.68	15.15	2300.1	2330.1	0.92	0.61	0.37
2400.1	2430.1	7.49	6.47	6.27	2400.1	2430.1	16.49	18.65	17.41	2400.1	2430.1	1.08	0.62	0.38

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1800.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=300.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2400.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
900.0	900.1	11.50	10.0	310.1	5.97	900.0	1500.1	13.67
800.0	1000.1	8.19	20.0	320.1	5.86	850.0	1550.1	11.49
700.0	1100.1	8.31	30.0	330.1	5.77	800.0	1600.1	9.39
600.0	1200.1	6.52	40.0	340.1	5.73	750.0	1650.1	8.41
500.0	1300.1	5.57	50.0	350.1	5.76	700.0	1700.1	7.87
400.0	1400.1	5.34	60.0	360.1	5.79	650.0	1750.1	7.82
300.0	1500.1	5.57	70.0	370.1	5.79	600.0	1800.1	7.55
260.0	1540.1	5.61	80.0	380.1	5.72	550.0	1850.1	7.81
240.0	1560.1	5.77	90.0	390.1	5.69	500.0	1900.1	7.43
220.0	1580.1	5.78	100.0	400.1	5.66	450.0	1950.1	7.62
200.0	1600.1	5.78	110.0	410.1	5.56	400.0	2000.1	7.46
180.0	1620.1	5.87	120.0	420.1	5.44	350.0	2050.1	7.74
160.0	1640.1	5.85	130.0	430.1	5.44	300.0	2100.1	7.54
140.0	1660.1	5.72	140.0	440.1	5.50	280.0	2120.1	7.70
120.0	1680.1	5.52	150.0	450.1	5.53	260.0	2140.1	7.58
100.0	1700.1	5.48	160.0	460.1	5.70	250.0	2150.1	7.44
80.0	1720.1	5.53	170.0	470.1	5.80	240.0	2160.1	7.33
60.0	1740.1	5.49	180.0	480.1	5.82	230.0	2170.1	7.20
40.0	1760.1	5.41	190.0	490.1	5.84	220.0	2180.1	7.07
20.0	1780.1	5.36	200.0	500.1	5.84	210.0	2190.1	6.97
10.0	1810.1	5.34	220.0	520.1	5.90	200.0	2200.1	6.90
30.0	1830.1	5.35	240.0	540.1	5.97	190.0	2210.1	6.89
50.0	1850.1	5.44	260.0	560.1	6.08	180.0	2220.1	6.88
70.0	1870.1	5.52	280.0	580.1	6.09	170.0	2230.1	6.83
90.0	1890.1	5.54	300.0	600.1	6.10	160.0	2240.1	6.74
110.0	1910.1	5.46	320.0	620.1	6.26	150.0	2250.1	6.63
130.0	1930.1	5.39	340.0	640.1	6.37	140.0	2260.1	6.52
150.0	1950.1	5.38	360.0	660.1	6.25	130.0	2270.1	6.45
170.0	1970.1	5.43	400.0	700.1	6.05	120.0	2280.1	6.46
190.0	1990.1	5.34	450.0	750.1	6.50	110.0	2290.1	6.50
220.0	2020.1	5.39	500.0	800.1	6.17	100.0	2300.1	6.54
260.0	2060.1	5.70	550.0	850.1	6.22	90.0	2310.1	6.58
300.0	2100.1	5.88	600.0	900.1	6.14	80.0	2320.1	6.57
340.0	2140.1	6.20	650.0	950.1	6.30	70.0	2330.1	6.54
400.0	2200.1	6.24	700.0	1000.1	6.43	60.0	2340.1	6.50
500.0	2300.1	6.21	750.0	1050.1	6.83	50.0	2350.1	6.48
600.0	2400.1	6.27	800.0	1100.1	7.40	40.0	2360.1	6.45
700.0	2500.1	6.81	850.0	1150.1	8.76	30.0	2370.1	6.42
800.0	2600.1	8.88	900.0	1200.1	11.03	20.0	2380.1	6.38
900.0	2700.1	12.83	950.0	1250.1	16.13	10.0	2390.1	6.38

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
330.1	47.76	46.42	45.50	22.02	23.29	24.96
380.1	41.35	41.09	41.06	21.39	23.35	25.04
430.1	40.02	40.44	40.61	22.42	24.63	26.43
480.1	38.26	38.91	39.34	23.40	25.30	26.75
530.1	40.55	40.77	40.96	24.59	26.48	27.86
580.1	47.78	47.12	46.38	26.40	27.96	28.76
680.1	51.03	48.42	47.03	27.19	26.36	25.57
730.1	46.75	43.95	42.46	26.52	25.45	24.70
780.1	46.02	44.11	41.96	27.43	26.56	25.79
830.1	45.82	44.30	42.89	29.60	28.44	27.33
880.1	45.28	45.22	45.25	27.93	28.13	28.13
930.1	44.80	44.58	44.41	25.91	27.61	29.07
980.1	44.85	44.76	44.62	23.00	24.97	26.87
1030.1	44.70	44.01	43.55	22.05	23.73	25.10
1080.1	45.93	44.92	44.24	23.47	24.78	25.66
1130.1	46.11	45.20	44.41	25.35	26.15	26.48
1180.1	46.68	45.80	45.18	27.82	28.41	28.46
1230.1	44.18	43.58	42.92	29.15	29.73	29.70
1280.1	47.02	45.62	43.95	31.60	32.12	31.96
1330.1	43.47	43.02	42.48	32.96	33.91	33.60
1380.1	40.11	38.97	38.99	33.14	35.37	36.23
1430.1	48.03	43.19	38.74	32.48	35.84	39.72
1480.1	43.32	41.81	40.48	31.72	34.25	37.31
1530.1	42.28	38.76	36.15	30.05	31.94	34.40
1580.1	41.82	38.41	36.18	28.36	30.76	33.68
1630.1	39.01	36.47	34.72	28.85	31.24	34.00
1680.1	38.20	35.60	34.07	28.93	31.03	33.36
1730.1	38.61	36.07	34.13	26.39	28.25	30.36
1780.1	38.62	37.28	35.75	24.79	26.56	28.54
1830.1	36.57	35.07	33.83	23.28	25.08	27.10
1880.1	36.22	34.70	33.44	22.86	24.50	26.35
1930.1	36.27	34.94	33.83	22.49	24.08	25.86
1980.1	35.92	34.69	33.66	22.52	23.98	25.65
2030.1	36.74	34.88	33.59	23.86	25.11	26.65
2080.1	38.09	36.16	34.52	23.98	25.67	27.47
2130.1	36.37	35.23	34.32	24.67	26.79	28.84
2230.1	38.17	35.68	33.19	22.22	23.08	23.86
2330.1	38.29	38.12	36.20	21.94	22.71	23.21
2430.1	36.24	36.47	35.91	24.14	25.83	26.50

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
300.1	330.1	21.18	19.17	18.37
350.1	380.1	18.38	17.44	16.96
400.1	430.1	15.97	15.34	14.91
450.1	480.1	14.58	14.14	13.89
500.1	530.1	15.97	15.43	15.08
550.1	580.1	19.59	18.77	18.27
650.1	680.1	30.31	29.33	28.36
700.1	730.1	32.93	31.96	30.78
750.1	780.1	32.13	30.01	28.07
800.1	830.1	30.20	28.48	27.29
850.1	880.1	30.13	28.54	27.54
900.1	930.1	29.41	28.38	27.54
950.1	980.1	31.27	30.56	30.01
1000.1	1030.1	36.48	36.12	35.94
1050.1	1080.1	38.33	37.91	37.66
1100.1	1130.1	33.01	32.55	32.22
1150.1	1180.1	30.27	29.86	29.53
1200.1	1230.1	27.78	27.46	27.23
1250.1	1280.1	24.98	24.74	24.67
1300.1	1330.1	22.41	21.80	21.68
1350.1	1380.1	22.61	21.23	20.57
1400.1	1430.1	24.30	22.94	21.42
1450.1	1480.1	22.45	22.17	21.94
1500.1	1530.1	23.01	22.20	21.55
1550.1	1580.1	22.42	22.02	21.77
1600.1	1630.1	22.32	22.36	22.38
1650.1	1680.1	22.33	22.38	22.48
1700.1	1730.1	22.51	22.21	22.13
1750.1	1780.1	23.28	22.90	22.65
1800.1	1830.1	23.96	23.76	23.67
1850.1	1880.1	27.02	26.97	26.84
1900.1	1930.1	24.37	23.77	23.55
1950.1	1980.1	27.03	27.14	27.61
2000.1	2030.1	31.37	30.75	30.40
2050.1	2080.1	34.73	33.65	32.51
2100.1	2130.1	24.57	23.30	22.57
2200.1	2230.1	33.13	30.24	29.07
2300.1	2330.1	30.72	28.13	26.56
2400.1	2430.1	28.40	26.00	24.81

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2400.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
300.1	330.1	2.01	1.90	1.91	330.1	9.93	6.86	6.41	0.3	1.16	1.28	1.51
350.1	380.1	1.57	1.54	1.54	380.1	4.03	4.17	4.85	0.4	1.17	1.28	1.51
400.1	430.1	1.65	1.53	1.45	430.1	2.39	2.85	3.58	0.5	1.17	1.28	1.51
450.1	480.1	2.56	2.37	2.22	480.1	1.73	2.27	2.97	0.6	1.18	1.28	1.51
500.1	530.1	3.75	3.37	3.10	530.1	1.34	1.76	2.33	0.7	1.18	1.28	1.51
550.1	580.1	4.15	3.87	3.69	580.1	1.33	1.56	2.06	0.8	1.18	1.28	1.51
650.1	680.1	3.67	3.51	3.45	680.1	1.79	1.91	2.38	1.0	1.18	1.28	1.50
700.1	730.1	3.62	3.27	3.11	730.1	2.04	2.29	2.86	2.0	1.19	1.27	1.49
750.1	780.1	3.81	3.39	3.00	780.1	2.34	2.72	3.35	3.0	1.18	1.28	1.50
800.1	830.1	4.10	3.70	3.36	830.1	2.63	3.21	4.01	4.0	1.18	1.28	1.50
850.1	880.1	4.27	3.95	3.72	880.1	2.77	3.44	4.33	5.0	1.18	1.28	1.50
900.1	930.1	4.49	4.15	3.85	930.1	2.88	3.73	4.77	6.0	1.18	1.28	1.50
950.1	980.1	4.29	3.98	3.78	980.1	2.78	3.67	4.73	7.0	1.18	1.27	1.50
1000.1	1030.1	4.10	3.86	3.69	1030.1	2.78	3.74	4.87	8.0	1.19	1.27	1.49
1050.1	1080.1	3.85	3.65	3.51	1080.1	2.81	3.72	4.80	9.0	1.18	1.27	1.49
1100.1	1130.1	3.88	3.62	3.43	1130.1	3.14	3.98	5.00	10.0	1.19	1.27	1.49
1150.1	1180.1	4.12	3.82	3.59	1180.1	3.32	3.98	4.85	20.0	1.20	1.26	1.47
1200.1	1230.1	4.36	4.04	3.80	1230.1	3.51	4.06	4.85	30.0	1.21	1.25	1.46
1250.1	1280.1	3.58	3.36	3.19	1280.1	3.46	3.79	4.42	40.0	1.22	1.25	1.45
1300.1	1330.1	3.71	3.44	3.30	1330.1	3.62	3.75	4.22	50.0	1.22	1.24	1.45
1350.1	1380.1	2.85	2.52	2.34	1380.1	3.47	3.52	3.85	60.0	1.24	1.24	1.44
1400.1	1430.1	2.54	2.17	1.84	1430.1	3.16	3.15	3.48	70.0	1.26	1.22	1.42
1450.1	1480.1	2.13	1.90	1.71	1480.1	2.80	2.61	2.85	80.0	1.28	1.22	1.41
1500.1	1530.1	1.69	1.41	1.19	1530.1	2.30	2.03	2.25	90.0	1.30	1.21	1.40
1550.1	1580.1	1.24	1.04	1.07	1580.1	2.04	1.75	1.97	100.0	1.31	1.21	1.39
1600.1	1630.1	1.03	1.12	1.20	1630.1	2.01	1.71	1.88	110.0	1.34	1.20	1.37
1650.1	1680.1	1.07	1.19	1.29	1680.1	1.96	1.66	1.84	120.0	1.37	1.18	1.34
1700.1	1730.1	1.15	1.13	1.19	1730.1	1.76	1.59	1.84	150.0	1.46	1.20	1.31
1750.1	1780.1	1.27	1.24	1.26	1780.1	1.68	1.55	1.89	200.0	1.62	1.24	1.28
1800.1	1830.1	1.54	1.53	1.54	1830.1	1.86	1.75	2.06	250.0	1.80	1.34	1.31
1850.1	1880.1	1.50	1.54	1.59	1880.1	2.13	2.00	2.29	300.0	1.99	1.43	1.34
1900.1	1930.1	1.70	1.55	1.51	1930.1	2.44	2.28	2.49	350.0	2.20	1.55	1.38
1950.1	1980.1	2.11	1.88	1.76	1980.1	2.73	2.54	2.73	400.0	2.41	1.66	1.43
2000.1	2030.1	2.66	2.35	2.14	2030.1	3.15	2.75	2.83	450.0	2.60	1.80	1.52
2050.1	2080.1	3.01	2.68	2.45	2080.1	3.39	2.91	2.94	500.0	2.76	1.92	1.61
2100.1	2130.1	3.71	3.32	3.06	2130.1	3.96	3.02	2.86	550.0	2.84	2.00	1.70
2200.1	2230.1	3.81	3.39	3.15	2230.1	4.97	3.12	2.53	600.0	2.86	2.05	1.78
2300.1	2330.1	3.40	2.75	2.50	2330.1	5.99	3.41	2.31	650.0	2.81	2.10	1.90
2400.1	2430.1	3.18	2.65	2.44	2430.1	6.46	3.61	2.21	700.0	2.75	2.21	2.13

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