

Frequency Mixer

HJK-ED10390A

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=835MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
1470.1	635.1	14.06	11.18	9.42
1500.1	665.1	13.54	10.80	9.15
1530.1	695.1	12.23	9.88	8.54
1560.1	725.1	11.35	9.31	8.12
1590.1	755.1	10.85	9.01	7.96
1620.1	785.1	10.03	8.46	7.59
1650.1	815.1	9.36	8.09	7.41
1680.1	845.1	9.04	7.97	7.42
1710.1	875.1	8.62	7.77	7.35
1740.1	905.1	8.42	7.76	7.42
1770.1	935.1	8.48	7.91	7.58
1800.1	965.1	8.47	7.98	7.65
1830.1	995.1	8.65	8.21	7.88
1860.1	1025.1	9.37	8.80	8.17
1900.1	1065.1	8.41	7.80	7.36
1930.1	1095.1	8.09	7.61	7.24
1970.1	1135.1	7.99	7.52	7.18
2000.1	1165.1	7.83	7.39	7.10
2040.1	1205.1	7.89	7.44	7.14
2070.1	1235.1	7.95	7.46	7.12
2110.1	1275.1	8.07	7.61	7.29
2140.1	1305.1	8.22	7.69	7.31
2180.1	1345.1	8.36	7.79	7.40
2210.1	1375.1	8.57	7.98	7.58
2250.1	1415.1	8.98	8.26	7.78
2280.1	1445.1	8.91	8.24	7.84
2320.1	1485.1	9.09	8.26	7.80
2350.1	1515.1	9.27	8.30	7.76
2390.1	1555.1	9.29	8.33	7.81
2420.1	1585.1	9.68	8.58	7.94
2460.1	1625.1	9.93	8.75	8.07
2490.1	1655.1	10.05	8.87	8.22
2530.1	1695.1	10.55	9.21	8.39
2560.1	1725.1	10.56	9.25	8.47
2600.1	1765.1	11.01	9.66	8.82
2630.1	1795.1	11.27	9.87	8.95
2670.1	1835.1	11.26	9.99	9.14
2700.1	1865.1	11.60	10.29	9.42
2740.1	1905.1	11.88	10.56	9.74
2770.1	1935.1	11.97	10.81	10.11

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
1470.1	635.1	17.69	23.43	24.12
1500.1	665.1	20.92	21.49	23.18
1530.1	695.1	22.73	20.73	23.86
1560.1	725.1	20.07	20.90	24.34
1590.1	755.1	19.54	21.67	25.23
1620.1	785.1	19.48	22.53	25.87
1650.1	815.1	20.47	23.60	26.67
1680.1	845.1	21.94	24.83	27.77
1710.1	875.1	23.05	26.08	29.55
1740.1	905.1	24.25	27.17	30.96
1770.1	935.1	24.60	27.21	30.27
1800.1	965.1	22.58	24.23	26.12
1830.1	995.1	19.48	20.84	22.44
1860.1	1025.1	19.85	24.26	27.82
1900.1	1065.1	26.60	29.62	35.53
1930.1	1095.1	28.84	31.07	35.72
1970.1	1135.1	27.85	30.21	34.10
2000.1	1165.1	26.60	30.99	34.45
2040.1	1205.1	26.24	30.74	34.45
2070.1	1235.1	25.84	29.54	33.71
2110.1	1275.1	25.65	28.61	32.33
2140.1	1305.1	24.81	27.50	31.15
2180.1	1345.1	23.79	26.65	30.35
2210.1	1375.1	23.01	26.43	29.45
2250.1	1415.1	22.33	25.63	28.27
2280.1	1445.1	22.49	25.97	28.40
2320.1	1485.1	21.96	24.70	26.80
2350.1	1515.1	21.23	23.32	25.55
2390.1	1555.1	20.77	22.24	24.47
2420.1	1585.1	20.37	21.44	23.41
2460.1	1625.1	19.87	20.49	22.32
2490.1	1655.1	19.73	20.18	21.96
2530.1	1695.1	19.32	19.95	21.33
2560.1	1725.1	19.45	19.97	21.24
2600.1	1765.1	19.02	20.20	21.16
2630.1	1795.1	18.62	20.26	21.08
2670.1	1835.1	18.86	20.36	20.94
2700.1	1865.1	17.95	19.60	20.25
2740.1	1905.1	17.51	19.07	19.37
2770.1	1935.1	17.70	18.58	18.51

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
1470.1	635.1	-0.33	0.64	0.95
1500.1	665.1	0.01	0.88	1.02
1530.1	695.1	0.66	1.19	1.05
1560.1	725.1	1.02	1.32	1.02
1590.1	755.1	1.18	1.30	0.92
1620.1	785.1	1.40	1.30	0.79
1650.1	815.1	1.45	1.16	0.64
1680.1	845.1	1.29	0.92	0.52
1710.1	875.1	1.17	0.76	0.44
1740.1	905.1	0.98	0.62	0.37
1770.1	935.1	0.72	0.45	0.26
1800.1	965.1	0.52	0.29	0.16
1830.1	995.1	0.80	0.70	0.68
1860.1	1025.1	0.54	0.54	0.44
1900.1	1065.1	0.49	0.37	0.16
1930.1	1095.1	0.37	0.26	0.14
1970.1	1135.1	0.30	0.25	0.15
2000.1	1165.1	0.37	0.29	0.13
2040.1	1205.1	0.44	0.32	0.15
2070.1	1235.1	0.48	0.35	0.19
2110.1	1275.1	0.53	0.36	0.23
2140.1	1305.1	0.61	0.41	0.29
2180.1	1345.1	0.71	0.45	0.31
2210.1	1375.1	0.77	0.48	0.32
2250.1	1415.1	0.82	0.49	0.35
2280.1	1445.1	1.12	0.67	0.42
2320.1	1485.1	1.50	0.94	0.60
2350.1	1515.1	1.60	1.04	0.67
2390.1	1555.1	1.84	1.19	0.75
2420.1	1585.1	1.93	1.28	0.81
2460.1	1625.1	1.95	1.32	0.84
2490.1	1655.1	2.10	1.41	0.86
2530.1	1695.1	2.15	1.51	0.91
2560.1	1725.1	2.27	1.56	0.92
2600.1	1765.1	2.36	1.64	0.96
2630.1	1795.1	2.43	1.72	1.05
2670.1	1835.1	2.57	1.75	1.02
2700.1	1865.1	2.63	1.75	0.97
2740.1	1905.1	2.80	1.86	0.97
2770.1	1935.1	2.73	1.68	0.76

REV. X2

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1070.1MHz (dB)
		@LO (dBm)
		+17
470.0	600.1	10.51
438.3	631.8	10.19
406.6	663.5	9.76
390.7	679.4	9.56
359.0	711.1	8.97
343.1	727.0	8.79
311.4	758.7	8.51
295.5	774.6	8.28
263.8	806.3	7.90
247.9	822.2	7.71
216.2	853.9	7.46
200.3	869.8	7.38
168.6	901.5	7.12
152.8	917.3	7.07
121.0	949.1	6.97
105.2	964.9	6.97
73.4	996.7	6.94
57.6	1012.5	7.15
25.9	1044.2	7.60
10.0	1060.1	7.76
34.1	1104.2	7.49
58.3	1128.4	7.51
106.6	1176.7	7.65
130.7	1200.8	7.56
179.0	1249.1	7.54
203.1	1273.2	7.51
251.4	1321.5	7.51
275.5	1345.6	7.53
323.8	1393.9	7.67
347.9	1418.0	7.71
396.2	1466.3	7.92
420.3	1490.4	8.10
468.6	1538.7	8.29
492.8	1562.9	8.42
541.0	1611.1	8.93
565.2	1635.3	9.03
613.4	1683.5	9.56
637.6	1707.7	9.74
685.9	1756.0	10.11
710.0	1780.1	10.44

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=950.1MHz (dB)
		@LO (dBm)
		+17
10.0	960.1	7.04
30.0	980.1	6.75
50.0	1000.1	6.70
70.0	1020.1	7.36
90.0	1040.1	7.65
110.0	1060.1	7.65
130.0	1080.1	7.59
150.0	1100.1	7.55
170.0	1120.1	7.61
190.0	1140.1	7.65
210.0	1160.1	7.69
230.0	1180.1	7.65
250.0	1200.1	7.57
270.0	1220.1	7.48
290.0	1240.1	7.42
310.0	1260.1	7.33
330.0	1280.1	7.36
350.0	1300.1	7.36
370.0	1320.1	7.40
390.0	1340.1	7.39
410.0	1360.1	7.45
430.0	1380.1	7.51
450.0	1400.1	7.57
470.0	1420.1	7.64
490.0	1440.1	7.81
510.0	1460.1	7.90
530.0	1480.1	8.06
550.0	1500.1	8.20
570.0	1520.1	8.26
590.0	1540.1	8.38
610.0	1560.1	8.55
630.0	1580.1	8.81
650.0	1600.1	8.99
670.0	1620.1	9.16
690.0	1640.1	9.31
710.0	1660.1	9.47
750.0	1700.1	9.92
770.0	1720.1	10.08
810.0	1760.1	10.45
830.0	1780.1	10.76

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1200.1MHz (dB)
		@LO (dBm)
		+17
590.0	610.1	10.80
580.0	620.1	10.65
560.0	640.1	10.57
550.0	650.1	10.51
530.0	670.1	10.28
520.0	680.1	10.18
500.0	700.1	9.93
490.0	710.1	9.77
470.0	730.1	9.57
460.0	740.1	9.58
440.0	760.1	9.39
430.0	770.1	9.23
410.0	790.1	8.91
400.0	800.1	8.68
380.0	820.1	8.40
370.0	830.1	8.42
350.0	850.1	8.21
340.0	860.1	8.06
320.0	880.1	7.85
310.0	890.1	7.77
290.0	910.1	7.57
280.0	920.1	7.51
260.0	940.1	7.47
250.0	950.1	7.45
230.0	970.1	7.38
220.0	980.1	7.35
200.0	1000.1	7.28
190.0	1010.1	7.32
170.0	1030.1	7.57
160.0	1040.1	7.53
140.0	1060.1	7.54
130.0	1070.1	7.45
110.0	1090.1	7.41
100.0	1100.1	7.48
80.0	1120.1	7.45
70.0	1130.1	7.41
50.0	1150.1	7.47
40.0	1160.1	7.52
20.0	1180.1	7.54
10.0	1190.1	7.75

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
635.1	46.02	45.42	45.28	36.73	37.88	39.01
665.1	45.80	45.24	45.09	36.25	37.36	38.41
695.1	44.72	44.08	43.63	36.04	37.12	38.17
725.1	44.25	43.87	43.65	35.63	36.63	37.61
755.1	43.87	43.64	43.53	35.13	36.12	37.11
785.1	42.89	42.52	42.23	34.73	35.65	36.60
815.1	42.20	41.86	41.60	34.37	35.34	36.28
845.1	41.87	41.49	41.23	34.03	34.98	35.88
875.1	40.99	40.59	40.20	33.70	34.56	35.32
905.1	39.82	39.44	39.04	33.45	34.29	35.00
935.1	39.13	38.90	38.67	33.03	33.75	34.38
965.1	38.69	38.49	38.44	33.03	33.70	34.36
995.1	39.77	39.69	39.70	33.44	34.17	35.01
1025.1	39.87	39.94	39.75	33.04	33.66	34.52
1065.1	36.35	36.25	36.11	31.77	32.44	33.49
1095.1	34.89	34.60	34.39	31.27	32.09	33.23
1135.1	34.75	34.33	34.06	31.95	33.23	34.80
1165.1	35.58	35.39	35.37	33.21	34.74	36.50
1205.1	37.96	37.88	37.88	34.54	36.05	37.78
1235.1	40.32	40.05	39.98	35.86	37.36	38.97
1275.1	42.93	42.18	41.83	38.15	39.70	41.14
1305.1	45.09	43.92	43.32	39.38	40.92	42.19
1345.1	47.97	46.29	45.31	41.31	42.97	44.18
1375.1	50.22	48.28	46.96	42.78	44.54	45.62
1415.1	52.91	51.56	49.94	44.86	47.36	48.66
1445.1	53.14	53.52	52.40	47.86	51.41	53.08
1485.1	51.52	53.11	53.50	52.68	59.85	59.09
1515.1	50.84	52.31	53.15	59.57	65.54	56.33
1555.1	50.31	51.37	52.12	64.58	53.68	50.53
1585.1	49.96	51.22	51.79	55.85	50.02	47.81
1625.1	49.46	51.05	51.69	50.77	46.74	45.07
1655.1	48.57	50.33	51.36	48.47	44.97	43.46
1695.1	47.61	48.88	50.28	46.70	43.47	41.90
1725.1	47.84	48.64	49.94	45.01	42.14	40.65
1765.1	48.58	48.80	49.72	43.57	41.06	39.56
1795.1	49.44	49.26	49.95	42.55	40.43	38.96
1835.1	51.36	51.15	51.88	41.01	39.29	37.92
1865.1	53.69	53.78	54.76	40.20	38.76	37.46
1905.1	55.66	55.39	57.48	39.05	38.17	37.11
1935.1	53.72	51.19	49.88	38.28	37.62	36.84

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
1470.1	635.1	34.28	34.86	35.60
1500.1	665.1	34.50	34.34	34.21
1530.1	695.1	34.47	33.96	33.62
1560.1	725.1	34.92	35.13	35.22
1590.1	755.1	34.92	34.77	34.45
1620.1	785.1	34.89	34.95	35.17
1650.1	815.1	34.87	35.19	35.45
1680.1	845.1	34.80	35.04	34.85
1710.1	875.1	35.74	36.40	36.78
1740.1	905.1	36.03	36.42	36.53
1770.1	935.1	37.13	38.12	38.88
1800.1	965.1	38.50	40.39	42.14
1830.1	995.1	39.24	42.01	45.83
1860.1	1025.1	52.67	38.89	37.39
1900.1	1065.1	44.14	41.94	40.72
1930.1	1095.1	46.78	43.91	41.51
1970.1	1135.1	49.05	42.35	38.64
2000.1	1165.1	49.92	44.42	40.49
2040.1	1205.1	56.04	52.38	45.81
2070.1	1235.1	53.44	60.77	50.55
2110.1	1275.1	46.18	51.00	55.14
2140.1	1305.1	43.06	46.89	50.13
2180.1	1345.1	42.21	46.28	49.76
2210.1	1375.1	41.51	45.58	49.77
2250.1	1415.1	39.57	42.86	46.76
2280.1	1445.1	38.58	41.53	45.35
2320.1	1485.1	37.73	40.45	44.82
2350.1	1515.1	37.30	39.67	43.66
2390.1	1555.1	36.85	38.64	41.08
2420.1	1585.1	36.58	37.97	40.32
2460.1	1625.1	35.25	36.47	38.92
2490.1	1655.1	34.11	34.82	36.76
2530.1	1695.1	33.18	33.08	34.68
2560.1	1725.1	32.36	32.22	34.43
2600.1	1765.1	31.43	30.54	32.21
2630.1	1795.1	30.72	29.32	30.44
2670.1	1835.1	29.28	27.77	28.66
2700.1	1865.1	28.33	26.62	27.09
2740.1	1905.1	26.94	25.18	25.07
2770.1	1935.1	25.34	23.62	23.21

Frequency Mixer

HJK-ED10390A

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=1121MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
1470.1	635.1	4.87	3.56	2.72	635.1	11.93	11.85	11.69	10.0	1.64	1.82	2.01		
1500.1	665.1	4.55	3.36	2.62	665.1	10.82	10.75	10.56	30.0	1.62	1.80	1.98		
1530.1	695.1	4.06	3.07	2.47	695.1	9.63	9.58	9.43	50.0	1.63	1.81	2.00		
1560.1	725.1	3.67	2.84	2.33	725.1	8.90	8.81	8.68	70.0	1.61	1.78	1.96		
1590.1	755.1	3.47	2.73	2.28	755.1	8.20	8.12	7.97	90.0	1.65	1.83	2.02		
1620.1	785.1	3.22	2.59	2.19	785.1	7.44	7.31	7.17	110.0	1.59	1.76	1.94		
1650.1	815.1	2.92	2.41	2.08	815.1	6.68	6.58	6.44	130.0	1.66	1.84	2.02		
1680.1	845.1	2.75	2.30	2.00	845.1	5.89	5.79	5.66	150.0	1.58	1.74	1.91		
1710.1	875.1	2.59	2.20	1.94	875.1	5.13	5.02	4.89	190.0	1.56	1.71	1.88		
1740.1	905.1	2.40	2.08	1.86	905.1	4.45	4.35	4.24	210.0	1.65	1.82	1.99		
1770.1	935.1	2.27	2.00	1.82	935.1	3.82	3.72	3.64	250.0	1.61	1.76	1.91		
1800.1	965.1	2.21	1.98	1.83	965.1	3.25	3.19	3.14	270.0	1.56	1.70	1.85		
1830.1	995.1	2.10	1.88	1.70	995.1	2.93	2.94	2.94	310.0	1.59	1.72	1.87		
1860.1	1025.1	1.62	1.27	1.14	1025.1	2.80	2.78	2.75	330.0	1.61	1.73	1.86		
1900.1	1065.1	1.26	1.13	1.18	1065.1	2.45	2.48	2.50	370.0	1.63	1.72	1.84		
1930.1	1095.1	1.18	1.09	1.18	1095.1	2.57	2.69	2.80	390.0	1.63	1.73	1.86		
1970.1	1135.1	1.12	1.12	1.24	1135.1	3.35	3.56	3.81	430.0	1.63	1.71	1.81		
2000.1	1165.1	1.08	1.14	1.28	1165.1	4.43	4.69	5.03	450.0	1.63	1.68	1.76		
2040.1	1205.1	1.05	1.15	1.29	1205.1	6.51	6.81	7.17	490.0	1.64	1.66	1.73		
2070.1	1235.1	1.05	1.14	1.29	1235.1	8.47	8.72	9.08	510.0	1.71	1.74	1.80		
2110.1	1275.1	1.08	1.10	1.26	1275.1	10.62	10.69	10.62	550.0	1.78	1.78	1.81		
2140.1	1305.1	1.10	1.09	1.26	1305.1	11.61	11.53	11.31	570.0	1.72	1.70	1.73		
2180.1	1345.1	1.13	1.07	1.25	1345.1	12.61	12.44	12.18	610.0	1.76	1.72	1.72		
2210.1	1375.1	1.17	1.05	1.23	1375.1	12.61	12.26	11.77	630.0	1.88	1.82	1.80		
2250.1	1415.1	1.20	1.04	1.23	1415.1	12.71	12.44	12.01	670.0	1.93	1.85	1.82		
2280.1	1445.1	1.22	1.03	1.23	1445.1	12.80	12.52	12.09	690.0	1.89	1.81	1.77		
2320.1	1485.1	1.30	1.05	1.18	1485.1	11.69	11.38	10.82	730.0	2.00	1.90	1.84		
2350.1	1515.1	1.32	1.05	1.18	1515.1	11.38	11.17	10.82	750.0	2.06	1.96	1.88		
2390.1	1555.1	1.33	1.05	1.18	1555.1	10.50	10.31	9.96	790.0	2.10	1.98	1.89		
2420.1	1585.1	1.37	1.07	1.16	1585.1	9.85	9.58	9.18	810.0	2.16	2.05	1.97		
2460.1	1625.1	1.34	1.07	1.21	1625.1	9.63	9.48	9.28	850.0	2.18	2.08	2.00		
2490.1	1655.1	1.34	1.08	1.23	1655.1	9.48	9.28	8.99	870.0	2.15	2.04	1.96		
2530.1	1695.1	1.38	1.11	1.23	1695.1	8.95	8.77	8.43	910.0	2.21	2.12	2.05		
2560.1	1725.1	1.36	1.12	1.27	1725.1	8.86	8.72	8.55	930.0	2.25	2.18	2.13		
2600.1	1765.1	1.39	1.16	1.27	1765.1	8.23	8.08	7.80	970.0	2.20	2.17	2.15		
2630.1	1795.1	1.41	1.20	1.28	1795.1	7.87	7.73	7.50	990.0	2.16	2.15	2.15		
2670.1	1835.1	1.43	1.25	1.34	1835.1	7.63	7.53	7.41	1030.0	2.02	2.05	2.10		
2700.1	1865.1	1.48	1.30	1.35	1865.1	7.38	7.25	7.02	1050.0	1.93	1.97	2.05		
2740.1	1905.1	1.57	1.40	1.40	1905.1	7.22	7.14	6.97	1090.0	1.68	1.73	1.83		
2770.1	1935.1	1.61	1.46	1.45	1935.1	7.05	6.97	6.83	1110.0	1.55	1.58	1.68		

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	25	22	35	27	33	29	35	29	39
1	-	27	+0	36	11	43	24	44	31	46	51	53
2	55	55	50	58	47	52	57	60	71	61	65	67
3	87	72	64	74	61	75	59	73	62	>84	74	80
4	>90	>84	>84	>84	>84	>84	>84	84	>84	84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1930.1 MHz; 2.00 dBm.
LO IN: 1095.1 MHz; +17.00 dBm
IF OUT: 835 MHz; -5.81 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	41	33	44	38	43	41	43	41	52
1	-	26	+0	35	11	49	26	48	34	45	51	60
2	35	44	41	50	37	44	49	52	56	55	56	64
3	59	49	44	52	42	56	40	55	45	60	70	58
4	84	64	66	63	68	64	67	57	68	65	73	69
5	>90	75	73	76	89	70	69	71	66	68	74	78
6	>90	79	84	>94	91	86	76	81	78	76	73	69
7	>90	89	93	>94	94	>94	92	85	80	84	82	84
8	>90	>94	>94	>94	>94	>94	>94	>94	>94	89	90	88
9	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1930.1 MHz; 12.00 dBm.
LO IN: 1095.1 MHz; +17.00 dBm
IF OUT: 835 MHz; 4.05 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.