

Frequency Mixer

HJK-351H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=58MHz (dB)		
		@LO (dBm)		
		+15	+17	+19
70.1	12.1	10.30	10.15	9.99
80.1	22.1	9.15	9.00	8.91
95.1	37.1	8.71	8.60	8.48
110.1	52.1	8.29	8.18	8.04
120.1	62.1	8.03	7.92	7.81
135.1	77.1	7.66	7.54	7.47
150.1	92.1	7.73	7.59	7.50
165.1	107.1	7.63	7.52	7.45
175.1	117.1	7.61	7.52	7.46
190.1	132.1	7.61	7.51	7.43
205.1	147.1	7.45	7.33	7.27
215.1	157.1	7.18	7.10	7.04
235.1	177.1	6.98	6.87	6.78
245.1	187.1	6.92	6.85	6.79
260.1	202.1	6.92	6.85	6.82
270.1	212.1	6.91	6.86	6.85
285.1	227.1	6.94	6.88	6.88
300.1	242.1	6.89	6.82	6.81
310.1	252.1	6.82	6.75	6.71
325.1	267.1	6.82	6.74	6.66
340.1	282.1	6.92	6.82	6.74
355.1	297.1	6.97	6.86	6.77
365.1	307.1	7.05	6.92	6.83
380.1	322.1	7.26	7.10	6.98
395.1	337.1	7.46	7.28	7.13
405.1	347.1	7.53	7.31	7.15
420.1	362.1	7.75	7.48	7.29
435.1	377.1	8.06	7.73	7.48
450.1	392.1	8.12	7.80	7.54
460.1	402.1	8.24	7.89	7.64
475.1	417.1	8.78	8.29	7.97
490.1	432.1	9.32	8.72	8.30
500.1	442.1	9.65	9.01	8.51
515.1	457.1	10.10	9.41	8.83
530.1	472.1	10.45	9.69	9.05
545.1	487.1	9.68	9.06	8.59
555.1	497.1	9.05	8.59	8.27
570.1	512.1	9.29	8.80	8.43
585.1	527.1	9.47	8.99	8.63
600.1	542.1	9.55	9.04	8.67

RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)		
		@LO (dBm)		
		+15	+17	+19
70.1	12.1	13.53	13.72	13.96
80.1	22.1	16.47	17.07	18.00
95.1	37.1	19.37	19.85	20.62
110.1	52.1	21.07	21.35	22.09
120.1	62.1	29.52	28.24	27.95
135.1	77.1	27.68	28.14	29.32
150.1	92.1	25.84	27.05	28.24
165.1	107.1	25.94	26.74	27.31
175.1	117.1	25.46	26.05	26.72
190.1	132.1	24.98	26.21	27.60
205.1	147.1	26.30	27.68	29.49
215.1	157.1	27.20	28.94	31.48
235.1	177.1	29.05	31.66	33.90
245.1	187.1	29.61	31.36	32.89
260.1	202.1	31.80	33.99	35.51
270.1	212.1	32.28	35.14	36.71
285.1	227.1	31.28	34.03	37.29
300.1	242.1	31.54	34.21	38.89
310.1	252.1	31.27	34.24	39.09
325.1	267.1	30.17	33.09	37.38
340.1	282.1	29.05	31.67	33.77
355.1	297.1	28.02	30.54	32.62
365.1	307.1	26.58	29.34	31.50
380.1	322.1	23.15	25.19	27.90
395.1	337.1	21.43	23.04	25.10
405.1	347.1	20.69	22.22	24.07
420.1	362.1	19.07	20.51	22.19
435.1	377.1	17.79	19.27	20.82
450.1	392.1	17.60	19.07	20.62
460.1	402.1	17.42	19.00	20.60
475.1	417.1	15.75	17.75	19.49
490.1	432.1	15.46	17.44	19.84
500.1	442.1	14.15	15.27	17.60
515.1	457.1	14.28	16.23	18.64
530.1	472.1	13.94	15.57	17.90
545.1	487.1	16.23	18.57	21.05
555.1	497.1	18.83	21.24	23.66
570.1	512.1	18.32	20.39	22.08
585.1	527.1	18.64	19.98	20.97
600.1	542.1	18.12	19.12	19.89

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+15	+17	+19
70.1	12.1	1.61	1.26	1.09
80.1	22.1	2.27	1.71	1.28
95.1	37.1	2.77	1.80	1.21
110.1	52.1	2.60	1.53	0.94
120.1	62.1	2.26	1.23	0.66
135.1	77.1	2.36	1.16	0.57
150.1	92.1	2.34	1.26	0.70
165.1	107.1	1.78	0.99	0.63
175.1	117.1	1.59	0.88	0.58
190.1	132.1	1.59	0.89	0.61
205.1	147.1	1.24	0.79	0.56
215.1	157.1	0.97	0.60	0.41
235.1	177.1	0.77	0.48	0.35
245.1	187.1	0.65	0.40	0.29
260.1	202.1	0.39	0.26	0.18
270.1	212.1	0.32	0.20	0.16
285.1	227.1	0.27	0.16	0.15
300.1	242.1	0.30	0.18	0.16
310.1	252.1	0.38	0.21	0.15
325.1	267.1	0.59	0.35	0.23
340.1	282.1	0.90	0.55	0.37
355.1	297.1	1.29	0.73	0.48
365.1	307.1	1.67	0.88	0.54
380.1	322.1	2.85	1.60	0.89
395.1	337.1	3.71	2.28	1.30
405.1	347.1	4.17	2.66	1.58
420.1	362.1	5.11	3.59	2.39
435.1	377.1	5.69	4.26	3.07
450.1	392.1	6.00	4.50	3.27
460.1	402.1	6.27	4.77	3.51
475.1	417.1	7.06	5.66	4.42
490.1	432.1	8.40	7.16	5.95
500.1	442.1	6.96	5.97	4.87
515.1	457.1	7.83	6.88	5.88
530.1	472.1	8.28	7.40	6.42
545.1	487.1	7.34	6.35	5.27
555.1	497.1	6.16	5.06	3.89
570.1	512.1	6.44	5.38	4.28
585.1	527.1	6.43	5.37	4.23
600.1	542.1	6.53	5.46	4.33



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=295.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=235.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=355.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
285.0	10.1	11.18	15.0	250.1	6.95	345.0	10.1	11.40
275.0	20.1	9.60	17.0	252.1	6.93	340.0	15.1	10.31
260.0	35.1	8.87	21.0	256.1	7.01	330.0	25.1	9.24
245.0	50.1	8.52	25.0	260.1	7.01	320.0	35.1	8.88
230.0	65.1	8.19	29.0	264.1	7.00	315.0	40.1	8.72
215.0	80.1	8.02	33.0	268.1	7.08	305.0	50.1	8.43
205.0	90.1	7.97	37.0	272.1	7.03	295.0	60.1	8.16
190.0	105.1	7.74	41.0	276.1	7.05	285.0	70.1	7.99
175.0	120.1	7.60	45.0	280.1	7.11	280.0	75.1	7.95
160.0	135.1	7.51	49.0	284.1	7.12	270.0	85.1	7.92
145.0	150.1	7.35	53.0	288.1	7.07	260.0	95.1	7.84
130.0	165.1	7.20	57.0	292.1	7.07	255.0	100.1	7.77
120.0	175.1	7.16	61.0	296.1	7.07	245.0	110.1	7.60
105.0	190.1	7.07	65.0	300.1	7.09	235.0	120.1	7.52
90.0	205.1	6.98	67.0	302.1	7.10	225.0	130.1	7.46
75.0	220.1	6.90	71.0	306.1	7.11	220.0	135.1	7.44
60.0	235.1	6.89	75.0	310.1	7.13	210.0	145.1	7.34
50.0	245.1	6.95	79.0	314.1	7.15	200.0	155.1	7.19
35.0	260.1	7.02	83.0	318.1	7.16	195.0	160.1	7.14
20.0	275.1	6.98	87.0	322.1	7.17	185.0	170.1	7.05
10.0	305.1	7.21	91.0	326.1	7.19	175.0	180.1	6.97
14.0	309.1	7.20	95.0	330.1	7.22	165.0	190.1	6.89
20.0	315.1	7.24	99.0	334.1	7.24	160.0	195.1	6.86
24.0	319.1	7.25	103.0	338.1	7.23	150.0	205.1	6.85
30.0	325.1	7.35	107.0	342.1	7.24	140.0	215.1	6.83
34.0	329.1	7.36	111.0	346.1	7.25	135.0	220.1	6.85
40.0	335.1	7.31	115.0	350.1	7.25	125.0	230.1	6.81
44.0	339.1	7.34	117.0	352.1	7.26	115.0	240.1	6.73
50.0	345.1	7.37	121.0	356.1	7.35	105.0	250.1	6.79
56.0	351.1	7.40	125.0	360.1	7.38	100.0	255.1	6.74
60.0	355.1	7.42	129.0	364.1	7.43	90.0	265.1	6.70
66.0	361.1	7.47	133.0	368.1	7.42	80.0	275.1	6.74
70.0	365.1	7.42	137.0	372.1	7.47	75.0	280.1	6.74
76.0	371.1	7.47	141.0	376.1	7.50	65.0	290.1	6.92
80.0	375.1	7.50	145.0	380.1	7.54	55.0	300.1	6.94
86.0	381.1	7.55	149.0	384.1	7.52	45.0	310.1	7.03
92.0	387.1	7.58	153.0	388.1	7.51	40.0	315.1	7.03
96.0	391.1	7.66	157.0	392.1	7.49	30.0	325.1	7.15
102.0	397.1	7.63	161.0	396.1	7.50	20.0	335.1	7.20
106.0	401.1	7.61	165.0	400.1	7.53	10.0	345.1	7.28



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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)		
	+15	+17	+19	+15	+17	+19			+15	+17	+19
12.1	59.48	66.63	71.00	68.81	70.88	72.14	70.1	12.0	40.15	34.51	31.10
22.1	69.94	86.59	80.21	67.55	68.14	69.03	80.1	22.0	35.72	33.00	31.04
37.1	83.87	78.46	78.37	64.66	65.34	65.76	95.1	37.0	34.95	33.64	32.40
52.1	74.77	78.45	77.55	62.01	62.72	62.94	110.1	52.0	35.00	34.24	33.19
62.1	79.92	76.38	75.46	61.76	61.76	62.25	120.1	62.0	32.02	31.28	30.60
77.1	74.36	75.10	77.34	59.28	59.59	59.83	135.1	77.0	31.87	31.75	31.47
92.1	75.38	73.63	73.35	57.15	57.54	57.61	150.1	92.0	31.89	31.77	31.65
107.1	69.61	70.09	69.83	55.29	55.49	55.64	165.1	107.0	25.43	24.76	24.18
117.1	66.63	67.51	68.01	54.57	54.73	55.01	175.1	117.0	23.95	23.50	23.15
132.1	63.26	64.91	65.55	52.61	52.92	53.16	190.1	132.0	25.95	25.73	25.62
147.1	62.30	63.79	64.51	50.47	50.72	50.87	205.1	147.0	28.94	28.67	28.50
157.1	62.17	63.26	63.21	49.26	49.39	49.52	215.1	157.0	31.49	31.45	31.51
177.1	61.31	62.40	61.96	46.18	46.30	46.36	235.1	177.0	34.13	34.35	34.76
187.1	60.68	61.75	61.25	44.94	44.99	45.05	245.1	187.0	35.76	35.86	36.00
202.1	59.42	60.17	59.81	42.90	42.95	43.00	260.1	202.0	38.00	38.20	38.34
212.1	58.37	59.13	61.58	41.78	41.82	42.37	270.1	212.0	39.47	39.62	43.95
227.1	56.75	57.57	60.59	40.34	40.39	41.29	285.1	227.0	41.63	41.65	49.23
242.1	57.01	57.75	60.53	39.42	39.47	40.22	300.1	242.0	42.23	42.23	45.11
252.1	57.93	58.72	59.77	39.91	39.99	40.39	310.1	252.0	41.90	41.71	41.58
267.1	58.95	59.52	58.98	40.61	40.73	40.83	325.1	267.0	40.84	40.43	39.89
282.1	59.78	60.24	59.77	41.26	41.39	41.53	340.1	282.0	39.18	38.37	37.86
297.1	61.58	62.44	61.66	42.52	42.66	42.81	355.1	297.0	38.84	37.78	37.16
307.1	63.53	64.50	63.86	43.28	43.40	43.54	365.1	307.0	38.08	37.16	36.49
322.1	65.30	68.02	67.34	44.77	44.79	44.90	380.1	322.0	38.12	37.15	36.19
337.1	65.70	68.91	68.69	45.74	45.71	45.72	395.1	337.0	37.43	36.32	35.32
347.1	65.60	68.73	69.09	46.19	46.17	46.18	405.1	347.0	38.04	36.98	36.02
362.1	64.80	67.87	67.68	46.89	46.80	46.78	420.1	362.0	36.85	36.69	36.07
377.1	63.02	65.25	65.32	46.50	46.61	46.78	435.1	377.0	36.28	36.11	35.84
392.1	62.45	64.58	64.15	46.80	46.95	47.16	450.1	392.0	36.15	36.37	36.33
402.1	62.70	64.86	64.44	46.91	47.07	47.29	460.1	402.0	34.34	34.48	34.48
417.1	63.16	64.20	63.70	46.93	47.16	47.36	475.1	417.0	33.29	33.37	33.57
432.1	63.00	63.13	62.57	47.04	47.28	47.47	490.1	432.0	33.10	32.69	32.72
442.1	62.24	62.08	61.62	47.08	47.24	47.43	500.1	442.0	32.90	32.18	31.97
457.1	61.96	61.48	60.75	47.10	47.35	47.47	515.1	457.0	32.90	32.35	31.97
472.1	63.04	61.68	60.54	47.05	47.22	47.32	530.1	472.0	32.51	31.58	31.07
487.1	60.38	59.99	59.26	47.47	47.55	47.62	545.1	487.0	31.70	31.24	31.15
497.1	58.68	58.76	58.29	47.80	47.85	47.88	555.1	497.0	31.11	31.07	31.35
512.1	61.54	61.33	60.07	47.45	47.50	47.59	570.1	512.0	31.03	30.92	31.21
527.1	61.05	61.41	59.92	47.27	47.27	47.36	585.1	527.0	32.18	32.19	32.62
542.1	59.16	60.38	59.58	47.13	47.13	47.19	600.1	542.0	32.03	32.04	32.42



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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=297.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+17	+19		+15	+17	+19		+15	+17	+19
70.1	12.0	2.24	2.23	2.24	12.1	3.54	3.54	3.53	10.1	1.38	1.29	1.28
80.1	22.0	2.16	2.15	2.14	22.1	3.47	3.51	3.51	15.1	1.37	1.33	1.40
95.1	37.0	2.27	2.24	2.22	37.1	3.61	3.58	3.55	20.1	1.39	1.41	1.42
110.1	52.0	2.12	2.13	2.12	52.1	3.56	3.51	3.47	30.1	1.38	1.41	1.39
120.1	62.0	2.20	2.19	2.18	62.1	3.36	3.34	3.31	35.1	1.39	1.37	1.37
135.1	77.0	2.25	2.23	2.21	77.1	3.28	3.28	3.27	40.1	1.36	1.36	1.37
150.1	92.0	2.12	2.10	2.08	92.1	3.29	3.30	3.29	50.1	1.39	1.39	1.39
165.1	107.0	2.22	2.20	2.19	107.1	3.00	2.99	2.97	55.1	1.42	1.42	1.43
175.1	117.0	2.22	2.21	2.20	117.1	2.85	2.86	2.85	65.1	1.46	1.46	1.45
190.1	132.0	2.17	2.16	2.15	132.1	2.86	2.87	2.86	70.1	1.43	1.43	1.44
205.1	147.0	2.16	2.15	2.15	147.1	2.73	2.73	2.73	75.1	1.40	1.41	1.40
215.1	157.0	2.20	2.20	2.20	157.1	2.61	2.61	2.61	85.1	1.35	1.34	1.35
235.1	177.0	2.19	2.19	2.18	177.1	2.46	2.46	2.46	90.1	1.35	1.36	1.35
245.1	187.0	2.26	2.26	2.26	187.1	2.39	2.38	2.38	100.1	1.42	1.41	1.42
260.1	202.0	2.17	2.17	2.17	202.1	2.37	2.36	2.36	100.1	1.42	1.41	1.42
270.1	212.0	2.16	2.16	2.16	212.1	2.39	2.38	2.38	105.1	1.44	1.44	1.44
285.1	227.0	2.21	2.22	2.22	227.1	2.31	2.30	2.30	110.1	1.47	1.47	1.47
300.1	242.0	2.19	2.19	2.19	242.1	2.30	2.29	2.29	120.1	1.47	1.46	1.46
310.1	252.0	2.18	2.18	2.18	242.1	2.30	2.29	2.29	125.1	1.44	1.44	1.44
325.1	267.0	2.21	2.20	2.21	252.1	2.37	2.36	2.37	130.1	1.45	1.44	1.44
340.1	282.0	2.09	2.09	2.09	267.1	2.37	2.37	2.37	130.1	1.45	1.44	1.44
355.1	297.0	2.05	2.04	2.04	282.1	2.40	2.40	2.40	140.1	1.46	1.47	1.47
365.1	307.0	1.98	1.98	1.98	297.1	2.57	2.57	2.58	140.1	1.46	1.47	1.47
380.1	322.0	1.74	1.73	1.73	307.1	2.66	2.66	2.66	145.1	1.48	1.48	1.48
395.1	337.0	1.67	1.67	1.67	322.1	2.78	2.78	2.78	155.1	1.51	1.51	1.51
405.1	347.0	1.62	1.62	1.62	337.1	2.85	2.85	2.85	160.1	1.50	1.50	1.50
420.1	362.0	1.54	1.54	1.54	347.1	2.90	2.89	2.88	165.1	1.46	1.46	1.46
435.1	377.0	1.53	1.54	1.54	362.1	2.96	2.95	2.95	175.1	1.41	1.41	1.42
450.1	392.0	1.52	1.52	1.52	377.1	2.98	2.98	2.97	180.1	1.43	1.43	1.43
460.1	402.0	1.55	1.55	1.55	392.1	3.03	3.03	3.03	190.1	1.49	1.49	1.49
475.1	417.0	1.63	1.63	1.64	402.1	3.04	3.04	3.04	195.1	1.51	1.51	1.51
490.1	432.0	1.67	1.68	1.68	417.1	3.04	3.04	3.04	200.1	1.53	1.52	1.53
500.1	442.0	1.73	1.74	1.75	432.1	3.04	3.04	3.03	210.1	1.50	1.50	1.50
515.1	457.0	1.75	1.76	1.77	442.1	3.02	3.02	3.01	210.1	1.50	1.50	1.50
530.1	472.0	1.78	1.79	1.79	457.1	3.03	3.03	3.03	215.1	1.48	1.47	1.48
545.1	487.0	1.84	1.86	1.87	472.1	3.02	3.02	3.02	220.1	1.47	1.47	1.47
555.1	497.0	1.83	1.85	1.86	487.1	3.04	3.03	3.03	230.1	1.50	1.50	1.50
570.1	512.0	1.74	1.75	1.77	497.1	3.04	3.04	3.04	235.1	1.52	1.52	1.52
585.1	527.0	1.76	1.78	1.80	512.1	3.00	3.00	3.00	245.1	1.53	1.52	1.53
600.1	542.0	1.70	1.72	1.74	527.1	3.00	3.00	3.00	250.1	1.50	1.50	1.50
					542.1	2.97	2.97	2.97	255.1	1.47	1.46	1.47
									265.1	1.42	1.42	1.42
									270.1	1.43	1.43	1.43
									280.1	1.49	1.49	1.49



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	15.97	33.85	32.40	41.73	35.28	38.74	51.06	82.63	64.22	66.14
1	---	35.90	---	39.58	11.65	42.13	17.92	42.97	30.55	51.04	54.55	52.05
2	103.29	78.64	66.80	76.26	68.94	73.58	75.45	77.10	72.50	80.97	78.37	96.46
3	118.81	109.76	89.58	106.05	79.32	98.34	71.95	95.65	74.10	95.73	76.44	97.22
4	117.91	114.74	101.66	113.39	97.90	113.40	105.15	114.73	94.64	107.82	98.78	111.26
5	117.29	117.38	102.67	117.49	94.25	117.46	94.75	119.12	96.46	115.14	92.07	117.06
6	117.71	117.34	117.24	117.95	109.85	117.51	103.50	115.98	109.46	118.38	105.91	117.83
7	115.29	116.58	118.57	116.70	107.75	116.90	101.45	115.50	98.26	116.64	100.97	117.45
8	116.84	116.73	115.37	117.65	119.47	117.21	115.28	117.81	112.73	118.93	114.66	113.62
9	115.24	114.90	116.75	117.56	113.85	115.64	118.86	116.68	102.36	117.77	100.83	115.30
10	115.91	115.36	115.64	117.33	117.31	117.89	116.91	117.11	116.01	118.03	117.52	117.76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 295 MHz; 0 dBm.
 LO IN: 237 MHz; +17.00 dBm
 IF OUT: 58 MHz; - 6.85 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	26.80	43.93	45.10	53.38	44.94	49.12	61.23	90.80	76.31	78.91
1	---	36.02	---	39.75	11.66	42.65	18.17	43.40	31.05	51.27	50.49	53.87
2	88.59	67.79	58.90	63.96	57.40	63.62	62.61	67.39	63.20	74.08	70.09	90.70
3	105.64	79.93	61.82	74.79	60.77	71.03	51.57	70.12	53.68	72.73	56.99	76.54
4	112.99	90.48	86.66	95.23	82.94	89.49	83.28	86.91	86.42	90.02	87.07	85.95
5	112.42	108.15	83.94	99.40	83.15	94.24	83.15	91.84	80.39	93.04	76.81	96.35
6	112.04	125.19	115.86	115.31	105.06	127.38	98.87	115.93	101.87	105.20	108.41	104.01
7	111.46	126.52	121.44	126.32	105.12	111.88	103.86	113.29	100.84	108.16	101.28	110.45
8	110.75	126.93	126.23	127.75	126.36	120.20	122.36	119.02	121.55	118.79	122.61	115.38
9	108.00	124.45	126.05	125.63	127.68	126.06	111.84	118.00	104.21	119.34	104.08	117.37
10	108.73	125.92	123.47	123.53	126.83	125.75	127.55	126.85	124.87	120.76	120.74	117.46
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 295 MHz; +10 dBm.
 LO IN: 237 MHz; +17.00 dBm
 IF OUT: 58 MHz; 3.19 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

