



FCC Test Report of B890-66
FCC ID:QISB890
IC: 6369A-B890



Appendix A

Transmitter Output Power

According to FCC Part 2.1046 & Part22.913 & RSS-132



Conducted Power of Transmitter

Measurement Results

TEST CONDITIONS		RF Output Power (Conducted)					
		Channel4132(B)		Channel4182(M)		Channel4233(T)	
		826.4MHz		836.4MHz		846.6MHz	
		dBm		dBm		dBm	
T _{nom} / V _{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		22.76	38.5	22.41	38.5	22.61	38.5
TM2	Case1	21.79	38.5	21.41	38.5	21.48	38.5
	Case2	21.43	38.5	21.37	38.5	21.37	38.5
	Case3	20.77	38.5	20.86	38.5	20.66	38.5
	Case4	20.64	38.5	20.75	38.5	20.61	38.5
TM3	Case1	21.36	38.5	21.34	38.5	20.82	38.5
	Case2	18.59	38.5	18.27	38.5	18.31	38.5
	Case3	20.38	38.5	20.19	38.5	20.09	38.5
	Case4	20.38	38.5	20.75	38.5	20.24	38.5
	Case5	21.38	38.5	21.15	38.5	20.55	38.5

Note: RBW > emission bandwidth, VBW > 3 x RBW.

Measurement Results

TM4 & TM5 RF Output Power(Conducted) BAND 5				
Test Mode	TN/VN			
	Modulation	RB	Measured (dBm)	Limit (dBm)
Channel (B) 1.4MHz(BW)	QPSK	1RB#0	22.93	38.5
		1RB#max	23.05	38.5
		3RB#2	23.00	38.5
		Full	22.07	38.5
	16QAM	1RB#0	22.11	38.5
		1RB#max	22.17	38.5



		3RB#2	21.92	38.5
		Full	20.78	38.5
Channel (B) 3MHz(BW)	QPSK	1RB#0	22.89	38.5
		1RB#max	22.92	38.5
		8RB#4	22.02	38.5
		Full	21.96	38.5
	16QAM	1RB#0	22.04	38.5
		1RB#max	22.10	38.5
		8RB#4	20.90	38.5
		Full	20.98	38.5
Channel (B) 5MHz(BW)	QPSK	1RB#0	22.88	38.5
		1RB#max	22.85	38.5
		12RB#6	21.94	38.5
		Full	21.82	38.5
	16QAM	1RB#0	22.00	38.5
		1RB#max	22.00	38.5
		12RB#6	20.97	38.5
		Full	20.82	38.5
Channel (B) 10MHz(BW)	QPSK	1RB#0	22.84	38.5
		1RB#max	22.74	38.5
		25RB#13	21.72	38.5
		Full	21.66	38.5
	16QAM	1RB#0	22.04	38.5
		1RB#max	22.03	38.5
		25RB#13	20.81	38.5
		Full	20.61	38.5
Channel (M) 1.4MHz(BW)	QPSK	1RB#0	22.91	38.5
		1RB#max	22.96	38.5
		3RB#2	22.85	38.5
		Full	22.04	38.5
	16QAM	1RB#0	22.11	38.5
		1RB#max	22.21	38.5
		3RB#2	21.82	38.5
		Full	20.77	38.5



Channel (M) 3MHz(BW)	QPSK	1RB#0	22.88	38.5
		1RB#max	22.89	38.5
		8RB#4	21.93	38.5
		Full	21.89	38.5
	16QAM	1RB#0	22.07	38.5
		1RB#max	22.13	38.5
		8RB#4	20.87	38.5
		Full	20.91	38.5
Channel (M) 5MHz(BW)	QPSK	1RB#0	22.86	38.5
		1RB#max	23.09	38.5
		12RB#6	21.91	38.5
		Full	21.84	38.5
	16QAM	1RB#0	21.90	38.5
		1RB#max	22.10	38.5
		12RB#6	20.92	38.5
		Full	20.82	38.5
Channel (M) 10MHz(BW)	QPSK	1RB#0	22.85	38.5
		1RB#max	23.02	38.5
		25RB#13	21.84	38.5
		Full	21.61	38.5
	16QAM	1RB#0	21.97	38.5
		1RB#max	22.23	38.5
		25RB#13	20.86	38.5
		Full	20.53	38.5
Channel (T) 1.4MHz(BW)	QPSK	1RB#0	22.93	38.5
		1RB#max	22.75	38.5
		3RB#2	22.69	38.5
		Full	21.76	38.5
	16QAM	1RB#0	21.99	38.5
		1RB#max	21.85	38.5
		3RB#2	21.63	38.5
		Full	20.59	38.5
Channel (T) 3MHz(BW)	QPSK	1RB#0	22.84	38.5
		1RB#max	22.64	38.5
		8RB#4	21.74	38.5



	16QAM	Full	21.69	38.5
		1RB#0	21.99	38.5
		1RB#max	21.90	38.5
		8RB#4	20.74	38.5
		Full	20.83	38.5
Channel (T) 5MHz(BW)	QPSK	1RB#0	22.91	38.5
		1RB#max	22.67	38.5
		12RB#6	21.69	38.5
		Full	21.69	38.5
	16QAM	1RB#0	22.04	38.5
		1RB#max	21.80	38.5
		12RB#6	20.85	38.5
		Full	20.68	38.5
Channel (T) 10MHz(BW)	QPSK	1RB#0	23.05	38.5
		1RB#max	22.66	38.5
		25RB#13	21.75	38.5
		Full	21.64	38.5
	16QAM	1RB#0	22.18	38.5
		1RB#max	21.83	38.5
		25RB#13	20.78	38.5
		Full	20.57	38.5
		Full	22.93	38.5

Note: RBW > emission bandwidth, VBW > 3 x RBW.



Effective Radiated Power of Transmitter (ERP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
TM1	826.4	19.61	Dipole Ant.	22.76	-2.75	0.6	19.41	38.5	Pass
TM1	836.4	19.26	Dipole Ant.	22.53	-2.87	0.6	19.06	38.5	Pass
TM1	846.6	19.46	Dipole Ant.	22.71	-2.85	0.6	19.26	38.5	Pass

Test Mode		Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result	
Channel (B) 1.4MHz(BW)	QPSK	1RB#0	19.78	Horn Ant.	22.98	-2.75	0.6	19.63	38.5	Pass
		1RB#max	19.90	Horn Ant.	23.10	-2.75	0.6	19.75	38.5	Pass
		3RB#2	19.85	Horn Ant.	23.05	-2.75	0.6	19.70	38.5	Pass
		Full	18.92	Horn Ant.	22.12	-2.75	0.6	18.77	38.5	Pass
	16QAM	1RB#0	18.96	Horn Ant.	22.16	-2.75	0.6	18.81	38.5	Pass
		1RB#max	19.02	Horn Ant.	22.22	-2.75	0.6	18.87	38.5	Pass
		3RB#2	18.77	Horn Ant.	21.97	-2.75	0.6	18.62	38.5	Pass
		Full	17.63	Horn Ant.	20.83	-2.75	0.6	17.48	38.5	Pass
Channel (B) 3MHz(BW)	QPSK	1RB#0	19.74	Horn Ant.	22.94	-2.75	0.6	19.59	38.5	Pass
		1RB#max	19.77	Horn Ant.	22.97	-2.75	0.6	19.62	38.5	Pass
		8RB#4	18.87	Horn Ant.	22.07	-2.75	0.6	18.72	38.5	Pass
		Full	18.81	Horn	22.01	-2.75	0.6	18.66	38.5	Pass



	16QAM	1RB#0	18.89	Horn Ant.	22.09	-2.75	0.6	18.74	38.5	Pass
		1RB#max	18.95	Horn Ant.	22.15	-2.75	0.6	18.80	38.5	Pass
		8RB#4	17.75	Horn Ant.	20.95	-2.75	0.6	17.60	38.5	Pass
		Full	17.83	Horn Ant.	21.03	-2.75	0.6	17.68	38.5	Pass
Channel (B) 5MHz(B W)	QPSK	1 RB/#0	19.73	Horn Ant.	22.93	-2.75	0.6	19.58	38.5	Pass
		1 RB/#max	19.70	Horn Ant.	22.90	-2.75	0.6	19.55	38.5	Pass
		12 RB/#6	18.79	Horn Ant.	21.99	-2.75	0.6	18.64	38.5	Pass
		Full	18.67	Horn Ant.	21.87	-2.75	0.6	18.52	38.5	Pass
	16QAM	1 RB/#0	18.85	Horn Ant.	22.05	-2.75	0.6	18.70	38.5	Pass
		1 RB/#max	18.85	Horn Ant.	22.05	-2.75	0.6	18.70	38.5	Pass
		12 RB/#6	17.82	Horn Ant.	21.02	-2.75	0.6	17.67	38.5	Pass
		Full	17.67	Horn Ant.	20.87	-2.75	0.6	17.52	38.5	Pass
Channel (B) 10MHz(B W)	QPSK	1 RB/#0	19.69	Horn Ant.	22.89	-2.75	0.6	19.54	38.5	Pass
		1 RB/#max	19.59	Horn Ant.	22.79	-2.75	0.6	19.44	38.5	Pass
		25 RB/#13	18.57	Horn Ant.	21.77	-2.75	0.6	18.42	38.5	Pass
		Full	18.51	Horn Ant.	21.71	-2.75	0.6	18.36	38.5	Pass
	16QAM	1 RB/#0	18.89	Horn Ant.	22.09	-2.75	0.6	18.74	38.5	Pass
		1 RB/#max	18.88	Horn Ant.	22.08	-2.75	0.6	18.73	38.5	Pass
		25 RB/#13	17.66	Horn Ant.	20.86	-2.75	0.6	17.51	38.5	Pass
		Full	17.46	Horn Ant.	20.66	-2.75	0.6	17.31	38.5	Pass
Channel (M)	QPSK	1RB#0	19.76	Horn Ant.	23.08	-2.87	0.6	19.61	38.5	Pass



1.4MHz(BW)		1RB#max	19.81	Horn Ant.	23.13	-2.87	0.6	19.66	38.5	Pass
		3RB#2	19.70	Horn Ant.	23.02	-2.87	0.6	19.55	38.5	Pass
		Full	18.89	Horn Ant.	22.21	-2.87	0.6	18.74	38.5	Pass
	16QAM	1RB#0	18.96	Horn Ant.	22.28	-2.87	0.6	18.81	38.5	Pass
		1RB#max	19.06	Horn Ant.	22.38	-2.87	0.6	18.91	38.5	Pass
		3RB#2	18.67	Horn Ant.	21.99	-2.87	0.6	18.52	38.5	Pass
		Full	17.62	Horn Ant.	20.94	-2.87	0.6	17.47	38.5	Pass
Channel (M) 3MHz(BW)	QPSK	1RB#0	19.73	Horn Ant.	23.05	-2.87	0.6	19.58	38.5	Pass
		1RB#max	19.74	Horn Ant.	23.06	-2.87	0.6	19.59	38.5	Pass
		8RB#4	18.78	Horn Ant.	22.10	-2.87	0.6	18.63	38.5	Pass
		Full	18.74	Horn Ant.	22.06	-2.87	0.6	18.59	38.5	Pass
	16QAM	1RB#0	18.92	Horn Ant.	22.24	-2.87	0.6	18.77	38.5	Pass
		1RB#max	18.98	Horn Ant.	22.30	-2.87	0.6	18.83	38.5	Pass
		8RB#4	17.72	Horn Ant.	21.04	-2.87	0.6	17.57	38.5	Pass
		Full	17.76	Horn Ant.	21.08	-2.87	0.6	17.61	38.5	Pass
Channel (M) 5MHz(BW)	QPSK	1 RB/#0	19.71	Horn Ant.	23.03	-2.87	0.6	19.56	38.5	Pass
		1 RB/#max	19.94	Horn Ant.	23.26	-2.87	0.6	19.79	38.5	Pass
		12 RB/#6	18.76	Horn Ant.	22.08	-2.87	0.6	18.61	38.5	Pass
		Full	18.69	Horn Ant.	22.01	-2.87	0.6	18.54	38.5	Pass
	16QAM	1 RB/#0	18.75	Horn Ant.	22.07	-2.87	0.6	18.60	38.5	Pass
		1 RB/#max	18.95	Horn Ant.	22.27	-2.87	0.6	18.80	38.5	Pass
		12 RB/#6	17.77	Horn Ant.	21.09	-2.87	0.6	17.62	38.5	Pass



		Full	17.67	Horn Ant.	20.99	-2.87	0.6	17.52	38.5	Pass
Channel (M) 10MHz(BW)	QPSK	1 RB/#0	19.70	Horn Ant.	23.02	-2.87	0.6	19.55	38.5	Pass
		1 RB/#max	19.87	Horn Ant.	23.19	-2.87	0.6	19.72	38.5	Pass
		25 RB/#13	18.69	Horn Ant.	22.01	-2.87	0.6	18.54	38.5	Pass
		Full	18.46	Horn Ant.	21.78	-2.87	0.6	18.31	38.5	Pass
	16QAM	1 RB/#0	18.82	Horn Ant.	22.14	-2.87	0.6	18.67	38.5	Pass
		1 RB/#max	19.08	Horn Ant.	22.40	-2.87	0.6	18.93	38.5	Pass
		25 RB/#13	17.71	Horn Ant.	21.03	-2.87	0.6	17.56	38.5	Pass
		Full	17.38	Horn Ant.	20.70	-2.87	0.6	17.23	38.5	Pass
Channel (T) 1.4MHz(BW)	QPSK	1RB#0	19.78	Horn Ant.	23.08	-2.85	0.6	19.63	38.5	Pass
		1RB#max	19.60	Horn Ant.	22.90	-2.85	0.6	19.45	38.5	Pass
		3RB#2	19.54	Horn Ant.	22.84	-2.85	0.6	19.39	38.5	Pass
		Full	18.61	Horn Ant.	21.91	-2.85	0.6	18.46	38.5	Pass
	16QAM	1RB#0	18.84	Horn Ant.	22.14	-2.85	0.6	18.69	38.5	Pass
		1RB#max	18.70	Horn Ant.	22.00	-2.85	0.6	18.55	38.5	Pass
		3RB#2	18.48	Horn Ant.	21.78	-2.85	0.6	18.33	38.5	Pass
		Full	17.44	Horn Ant.	20.74	-2.85	0.6	17.29	38.5	Pass
Channel (T) 3MHz(BW)	QPSK	1RB#0	19.69	Horn Ant.	22.99	-2.85	0.6	19.54	38.5	Pass
		1RB#max	19.49	Horn Ant.	22.79	-2.85	0.6	19.34	38.5	Pass
		8RB#4	18.59	Horn Ant.	21.89	-2.85	0.6	18.44	38.5	Pass
		Full	18.54	Horn Ant.	21.84	-2.85	0.6	18.39	38.5	Pass
	16QAM	1RB#0	18.84	Horn Ant.	22.14	-2.85	0.6	18.69	38.5	Pass



		1RB#max	18.75	Horn Ant.	22.05	-2.85	0.6	18.60	38.5	Pass
		8RB#4	17.59	Horn Ant.	20.89	-2.85	0.6	17.44	38.5	Pass
		Full	17.68	Horn Ant.	20.98	-2.85	0.6	17.53	38.5	Pass
Channel (T) 5MHz(BW)	QPSK	1 RB/#0	19.76	Horn Ant.	23.06	-2.85	0.6	19.61	38.5	Pass
		1 RB/#max	19.52	Horn Ant.	22.82	-2.85	0.6	19.37	38.5	Pass
		12 RB/#6	18.54	Horn Ant.	21.84	-2.85	0.6	18.39	38.5	Pass
		Full	18.54	Horn Ant.	21.84	-2.85	0.6	18.39	38.5	Pass
	16QAM	1 RB/#0	18.89	Horn Ant.	22.19	-2.85	0.6	18.74	38.5	Pass
		1 RB/#max	18.65	Horn Ant.	21.95	-2.85	0.6	18.50	38.5	Pass
		12 RB/#6	17.70	Horn Ant.	21.00	-2.85	0.6	17.55	38.5	Pass
		Full	17.53	Horn Ant.	20.83	-2.85	0.6	17.38	38.5	Pass
Channel (T) 10MHz(BW)	QPSK	1 RB/#0	19.90	Horn Ant.	23.20	-2.85	0.6	19.75	38.5	Pass
		1 RB/#max	19.51	Horn Ant.	22.81	-2.85	0.6	19.36	38.5	Pass
		25 RB/#13	18.60	Horn Ant.	21.90	-2.85	0.6	18.45	38.5	Pass
		Full	18.49	Horn Ant.	21.79	-2.85	0.6	18.34	38.5	Pass
	16QAM	1 RB/#0	19.03	Horn Ant.	22.33	-2.85	0.6	18.88	38.5	Pass
		1 RB/#max	18.68	Horn Ant.	21.98	-2.85	0.6	18.53	38.5	Pass
		25 RB/#13	17.63	Horn Ant.	20.93	-2.85	0.6	17.48	38.5	Pass
		Full	17.42	Horn Ant.	20.72	-2.85	0.6	17.27	38.5	Pass

Note1: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should take to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$



b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Peak-to-Average Ratio

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA850	UMTS/TM1	LCH	3.72	13	PASS
		MCH	3.8	13	PASS
		HCH	3.69	13	PASS

Test Band (For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
BAND5	LTE/TM1	1.4	LCH	RB1#0	4.63	13	PASS
				RB1#3	4.63	13	PASS
				RB1#5	4.7	13	PASS
				RB3#0	4.39	13	PASS
				RB3#2	4.39	13	PASS
				RB3#3	4.44	13	PASS
				RB6#0	5.47	13	PASS
			MCH	RB1#0	4.73	13	PASS



							S
				RB1#3	4.73	13	P
				RB1#5	4.76	13	A
				RB3#0	4.52	13	S
				RB3#2	4.47	13	S
				RB3#3	4.54	13	P
				RB6#0	5.54	13	A
							S
			HCH	RB1#0	4.24	13	P
				RB1#3	4.28	13	A
				RB1#5	4.18	13	S
				RB3#0	4.03	13	S
				RB3#2	4.05	13	P
				RB3#3	4.07	13	A
				RB6#0	5.04	13	S
							S



		3	LCH	RB1#0	4.64	13	P A S S
				RB1#7	4.67	13	P A S S
				RB1#14	4.58	13	P A S S
				RB8#0	5.04	13	P A S S
				RB8#4	4.96	13	P A S S
				RB8#7	5.1	13	P A S S
				RB15#0	5.32	13	P A S S
			MCH	RB1#0	4.78	13	P A S S
				RB1#7	4.75	13	P A S S
				RB1#14	4.62	13	P A S S
				RB8#0	5.07	13	P A S S
				RB8#4	5	13	P A S S
				RB8#7	5.11	13	P A S S
				RB15#0	5.72	13	P A



			HCH	RB1#0	4.45	13	S S P A S S	
				RB1#7	4.36	13	P A S S	
				RB1#14	4.18	13	P A S S	
				RB8#0	4.72	13	P A S S	
				RB8#4	4.47	13	P A S S	
				RB8#7	4.72	13	P A S S	
				RB15#0	5.49	13	P A S S	
			5	LCH	RB1#0	4.33	13	P A S S
					RB1#13	4.46	13	P A S S
					RB1#24	4.56	13	P A S S
					RB12#0	4.85	13	P A S S
					RB12#6	4.81	13	P A S S
					RB12#13	4.86	13	P A S S



				RB25#0	5.62	13	P A S S
			MCH	RB1#0	4.55	13	P A S S
				RB1#13	4.51	13	P A S S
				RB1#24	4.4	13	P A S S
				RB12#0	4.99	13	P A S S
				RB12#6	4.91	13	P A S S
				RB12#13	4.8	13	P A S S
				RB25#0	5.6	13	P A S S
				HCH	RB1#0	4.38	13
			RB1#13		4.29	13	P A S S
			RB1#24		3.95	13	P A S S
			RB12#0		4.73	13	P A S S
			RB12#6		4.6	13	P A S S
			RB12#13		4.5	13	P A



		10					S
							S
				RB25#0	5.49	13	P
							A
							S
			LCH	RB1#0	4.64	13	P
							A
							S
				RB1#25	4.87	13	P
							A
							S
				RB1#49	4.97	13	P
						A	
						S	
				RB25#0	5.4	13	P
				A			
				S			
	RB25#13	5.37	13	P			
				A			
				S			
	RB25#25	5.59	13	P			
				A			
				S			
	RB50#0	5.83	13	P			
				A			
				S			
MCH	RB1#0	4.97	13	P			
				A			
				S			
	RB1#25	4.77	13	P			
				A			
			S				
	RB1#49	4.74	13	P			
				A			
				S			
	RB25#0	5.57	13	P			
				A			
				S			
	RB25#13	5.42	13	P			
				A			
				S			



			HCH	RB25#25	5.41	13	P A S S
				RB50#0	5.52	13	P A S S
				RB1#0	4.72	13	P A S S
				RB1#25	4.68	13	P A S S
				RB1#49	4.5	13	P A S S
				RB25#0	5.24	13	P A S S
				RB25#13	5.09	13	P A S S
				RB25#25	5.05	13	P A S S
				RB50#0	5.49	13	P A S S
	LTE/TM2	1.4	LCH	RB1#0	5.22	13	P A S S
				RB1#3	5.15	13	P A S S
				RB1#5	5.2	13	P A S S
				RB3#0	5.75	13	P A S S
				RB3#2	5.74	13	P A S S



							S
							S
				RB3#3	5.7	13	P
							A
							S
				RB6#0	6.29	13	P
							A
							S
			MCH	RB1#0	5.31	13	P
							A
							S
				RB1#3	5.24	13	P
							A
							S
				RB1#5	5.25	13	P
							A
							S
				RB3#0	5.89	13	P
							A
							S
				RB3#2	5.89	13	P
							A
							S
				RB3#3	5.82	13	P
							A
							S
				RB6#0	6.37	13	P
							A
							S
			HCH	RB1#0	4.82	13	P
							A
							S
				RB1#3	4.84	13	P
							A
							S
				RB1#5	4.8	13	P
							A
							S
				RB3#0	5.19	13	P
							A
							S



				RB3#2	5.15	13	P A S S						
				RB3#3	5.29	13	P A S S						
				RB6#0	5.96	13	P A S S						
		3	LCH			RB1#0	5.09	13	P A S S				
						RB1#7	5.25	13	P A S S				
						RB1#14	5.12	13	P A S S				
						RB8#0	6.34	13	P A S S				
						RB8#4	6.22	13	P A S S				
						RB8#7	6.34	13	P A S S				
						RB15#0	6.21	13	P A S S				
						MCH				RB1#0	5.29	13	P A S S
										RB1#7	5.32	13	P A S S
										RB1#14	5.08	13	P A S S
		RB8#0	6.36	13	P A S S								



				RB12#0	5.86	13	P A S S
				RB12#6	6	13	P A S S
				RB12#13	5.92	13	P A S S
				RB25#0	6.72	13	P A S S
			MCH	RB1#0	5.77	13	P A S S
				RB1#13	5.72	13	P A S S
				RB1#24	5.39	13	P A S S
				RB12#0	5.96	13	P A S S
				RB12#6	6.1	13	P A S S
				RB12#13	5.9	13	P A S S
				RB25#0	6.66	13	P A S S
			HCH	RB1#0	5.39	13	P A S S
				RB1#13	5.34	13	P A S S
				RB1#24	4.99	13	P A



							S	
							S	
				RB12#0	5.8	13	P	
				RB12#6	5.7	13	A	
				RB12#13	5.5	13	S	
			10	LCH	RB25#0	6.47	13	P
					RB1#0	5.25	13	A
					RB1#25	5.34	13	S
					RB1#49	5.53	13	P
					RB25#0	6.38	13	A
					RB25#13	6.26	13	S
					RB25#25	6.45	13	P
			MCH		RB50#0	6.73	13	A
					RB1#0	5.47	13	S
RB1#25	5.31	13			P			
					A			
					S			



				RB1#49	5.22	13	P A S S
				RB25#0	6.37	13	P A S S
				RB25#13	6.21	13	P A S S
				RB25#25	6.24	13	P A S S
				RB50#0	6.43	13	P A S S
			HCH	RB1#0	5.17	13	P A S S
				RB1#25	5.21	13	P A S S
				RB1#49	4.95	13	P A S S
				RB25#0	6.14	13	P A S S
				RB25#13	6	13	P A S S
				RB25#25	6.01	13	P A S S
				RB50#0	6.37	13	P A S S

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